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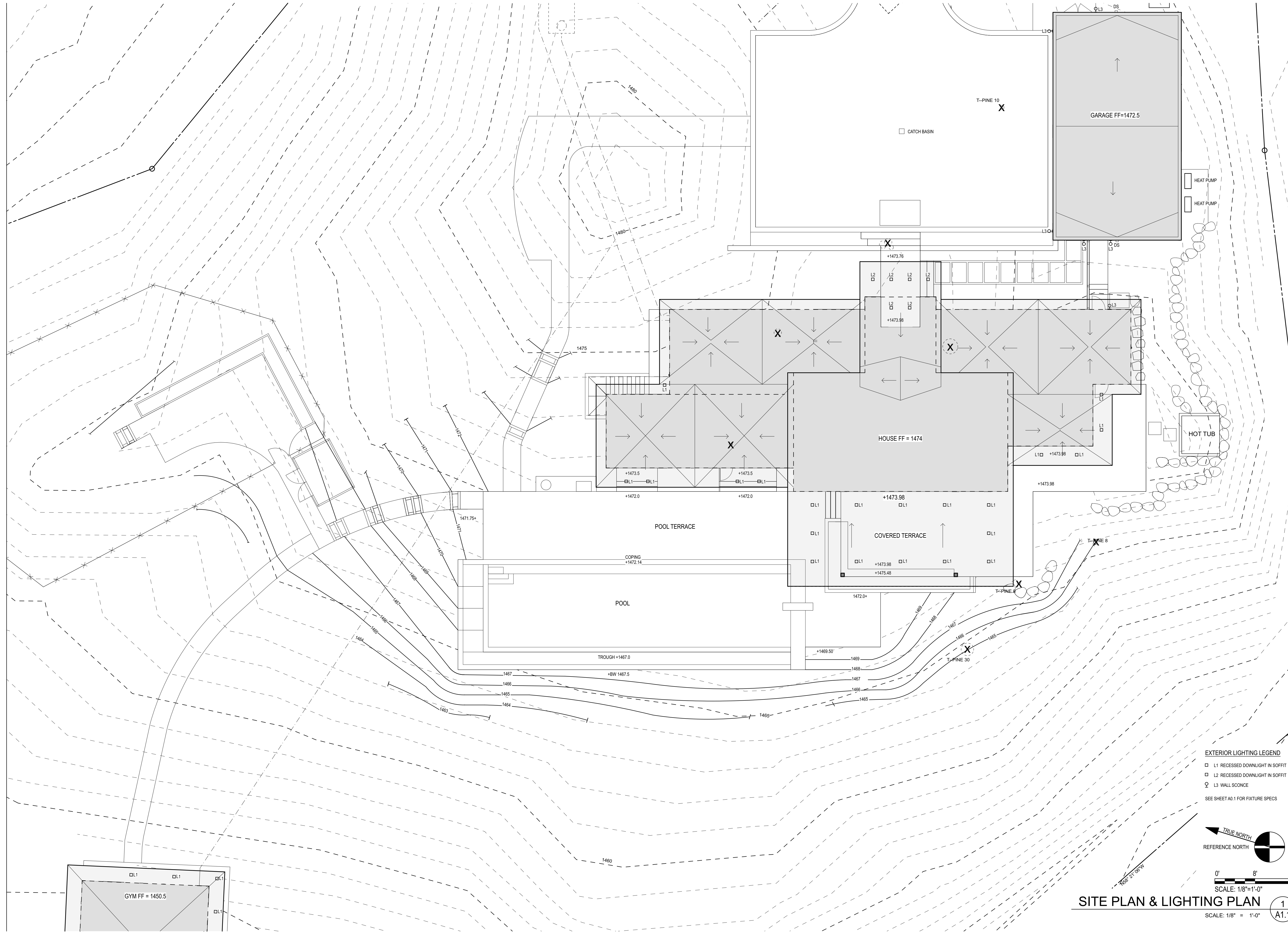












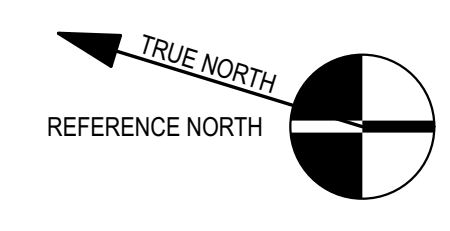
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13 JULY 20	VIEWSHED REVISED	LV
11 NOV 20	VIEWSHED REVISED	LV

PLT	11/18/20
DATE	
DRAWN	LV
JOB #	1901
SCALE	

**SITE PLAN 1/8"**

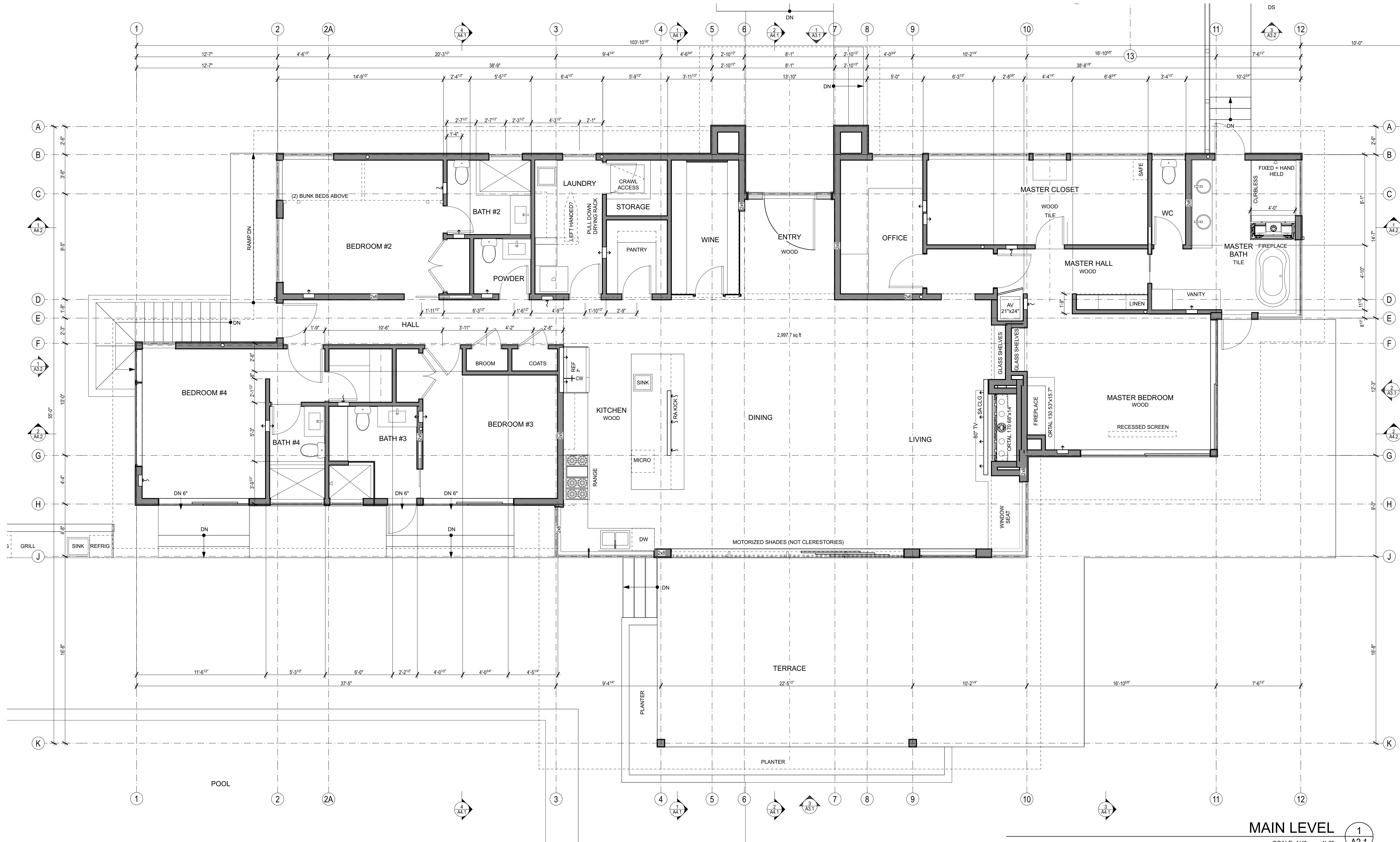
- EXTERIOR LIGHTING LEGEND**
- L1 RECESSED DOWNLIGHT IN SOFFIT
  - L2 RECESSED DOWNLIGHT IN SOFFIT
  - ⊙ L3 WALL SCONCE
- SEE SHEET A0.1 FOR FIXTURE SPECS



0' 8' 16'  
 SCALE: 1/8"=1'-0"  
 SCALE: 1/8" = 1'-0"

**SITE PLAN & LIGHTING PLAN**





**MAIN LEVEL** 1  
SCALE: 1/4" = 1'-0" A2.1

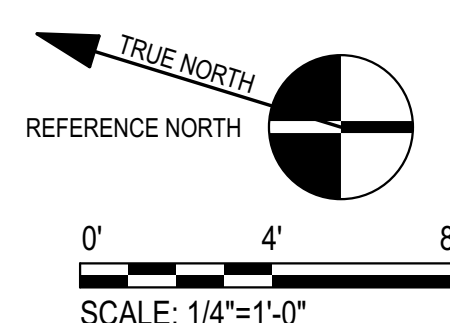


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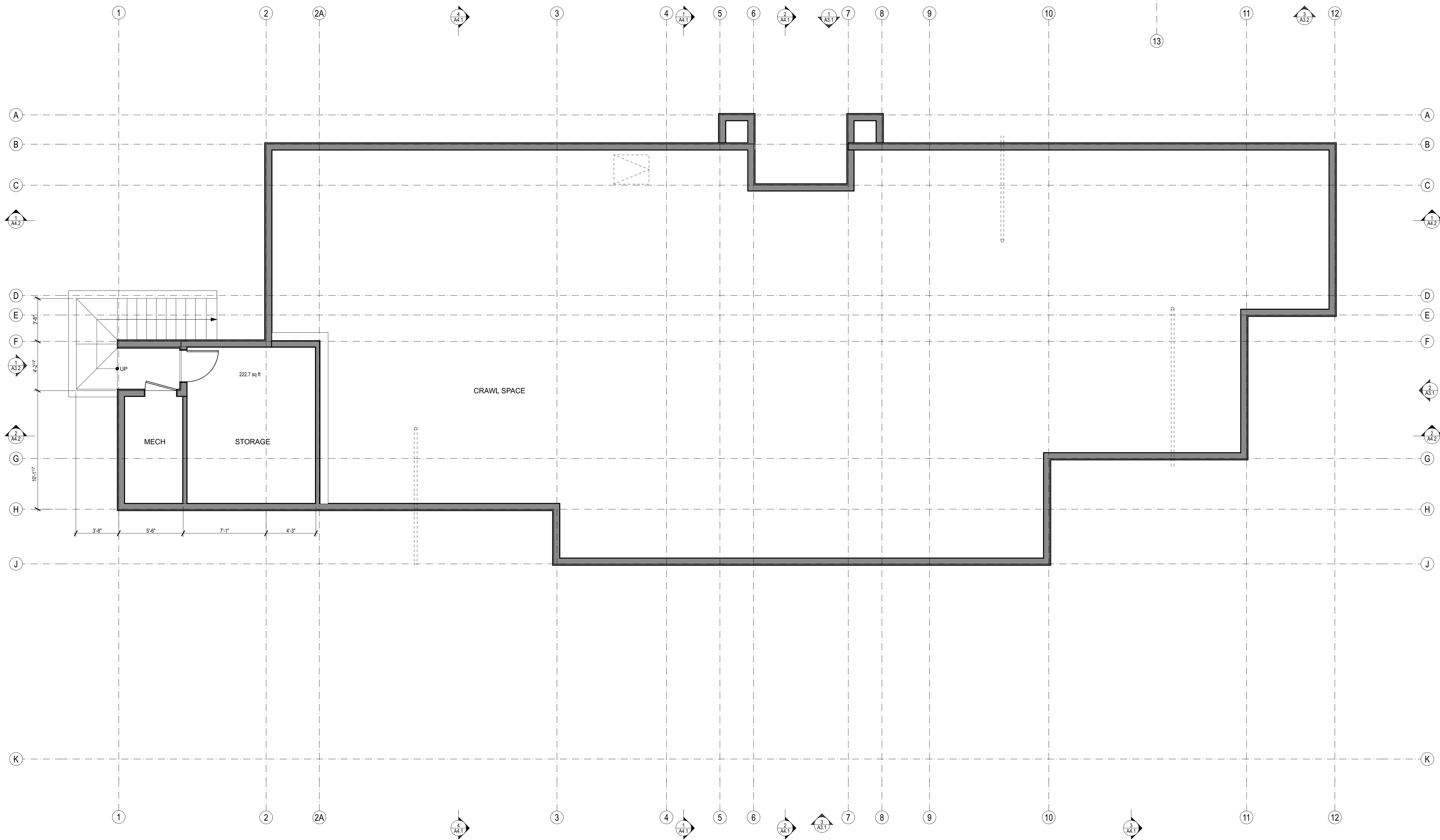
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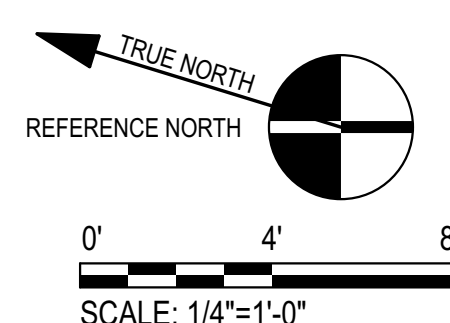
**MAIN FLOOR PLAN**







LOWER FLOOR & CRAWL SPACE PLAN 1  
 SCALE: 1/4" = 1'-0" A2.2



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**KALLWEIT RESIDENCE**  
 OAKVILLE RIDGE ROAD  
 NAPA CA  
 AP# 027-340-024



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LOWER FLOOR & CRAWL SPACE PLAN  
 SHEET  
**A2.2**

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**EROSION CONTROL NOTES**

- THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. IN GENERAL, THE CONTRACTOR IS RESPONSIBLE FOR KEEPING SEDIMENT STORM RUNOFF AND NON-STORM RUNOFF FROM LEAVING THE SITE. PROTECTIVE DEVICES, PROVIDED ON THESE PLANS SHALL BE USED BY THE CONTRACTOR ON AN AS NEEDED BASIS TO INHIBIT SILT FROM LEAVING THE SITE AND ENTERING THE STORM DRAIN SYSTEM AND NATURAL WATERWAYS. TEMPORARY EROSION CONTROL DEVICES SHOWN ON GRADING PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED WHEN THE INSPECTOR SO DIRECTS AS THE WORK PROGRESSES. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE OPERABLE YEAR AROUND OR UNTIL VEGETATION IS ESTABLISHED ON SLOPED SURFACES.
- EROSION CONTROL FACILITIES SHALL BE INSPECTED AND MAINTAINED DAILY AS WELL AS WHENEVER RAIN IS FORECAST. BREACHES IN DIKES AND SWALES TO BE REPAIRED AT THE CLOSE OF EACH DAY. THE NAME OF THE PERSON RESPONSIBLE FOR THE DAILY MAINTENANCE OF THESE FACILITIES SHALL BE ON RECORD WITH THE COUNTY ALONG WITH A PHONE NUMBER WHERE THEY CAN BE REACHED 24 HOURS A DAY. THESE FACILITIES SHALL CONTROL AND CONTAIN EROSION-CAUSED SILT DEPOSITS AND PROVIDE FOR THE SAFE DISCHARGE OF SILT FREE STORM WATER AND NON-STORM WATER DISCHARGE INTO EXISTING AND PROPOSED STORM DRAIN FACILITIES AND PRE-EXISTING DRAINAGE PATTERNS. DESIGN OF THESE FACILITIES MUST BE APPROVED AND UPDATED EACH YEAR BY THE CIVIL ENGINEER. (OCTOBER 1 TO APRIL 15)
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PROVISIONS OF THE MOST RECENT CONSTRUCTION GENERAL PERMIT. CONTROL MEASURES ARE SUBJECT TO THE INSPECTION AND APPROVAL OF THE ENGINEERING DIVISION OF THE PUBLIC SERVICES DEPARTMENT OF NAPA COUNTY.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SUB-CONTRACTORS AND SUPPLIERS ARE AWARE OF ALL STORM WATER QUALITY MEASURES & IMPLEMENT SUCH MEASURES. FAILURE TO COMPLY WITH THE APPROVED CONSTRUCTION WILL RESULT IN THE ISSUANCE OF CORRECTION NOTICES, CITATIONS, AND / OR A PROJECT STOP ORDER.
- ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE INSPECTOR. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LADEN RUNOFF TO ANY STORM DRAIN SYSTEM.
- THE CONTRACTOR SHALL INSTALL CONTROLLED ACCESS AND EGRESS. LOCATION TO BE APPROVED BY THE ENGINEER IN THE FIELD. CONSTRUCTION EGRESS WILL BE EQUIPPED WITH A TIRE WASH STATION, AS NEEDED. ALL DISCHARGE FROM THE TIRE WASH STATION WILL BE DIRECTED TO APPROPRIATE COLLECTION AREAS, AND NOT ALLOWED TO LEAVE THE SITE. ANY MUD OR SEDIMENT THAT IS TRACKED OFF-SITE ONTO PAVED AREAS WILL BE REMOVED AS NEEDED. POWER WASHING OF STREETS IS NOT PERMITTED. STREET CLEANING EQUIPMENT WILL HAVE SWEEPERS AND VACUUM CAPABILITY.
- DURING THE RAINY SEASON, ALL PAVED AREAS ARE TO BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE IS TO BE MAINTAINED SO AS TO MINIMIZE SEDIMENT RUNOFF TO ANY STORM DRAIN SYSTEM OR ADJACENT LANDSCAPE.
- DURING PERIODS WHEN STORMS ARE FORECASTED:
  - EXCAVATED SOILS SHOULD NOT BE PLACED IN STREETS OR ON PAVED AREAS.
  - ANY EXCAVATED SOILS SHOULD BE REMOVED FROM THE SITE BY THE END OF THE DAY.
  - WHERE STOCKPILING IS NECESSARY, USE A TARPAULIN AND SURROUND THE STOCKPILED MATERIAL WITH SEDIMENT ROLLS, GRAVEL SEDIMENT BARRIER, SILT FENCE, OR OTHER RUNOFF CONTROLS.
  - USE INLET CONTROLS AS NEEDED (E.G. ERTEC DRAIN INLET PROTECTION) FOR STORM DRAIN ADJACENT TO THE PROJECT SITE OR STOCKPILED SOIL.
- THOROUGHLY SWEEP ALL PAVED AREAS EXPOSED TO SOIL EXCAVATION AND PLACEMENT.
- STAND-BY CREWS SHALL BE ALERTED BY THE PERMITTEE OR CONTRACTOR FOR EMERGENCY WORK DURING RAINSTORMS.
- AS A PART OF THE EROSION CONTROL MEASURES, UNDERGROUND STORM DRAIN FACILITIES AND CONCRETE SHALL BE INSTALLED COMPLETE AS SHOWN ON THE IMPROVEMENT PLANS AS APPROPRIATE FOR THE CURRENT PHASE. DRAINAGE INLET PROTECTION (SEDIMENT BARRIERS) SHALL BE INSTALLED AS SOON AS THE STORM DRAINAGE SYSTEM IS INSTALLED.
- IT IS RECOMMENDED THAT ERTEC S-FENCE OR COMPARABLE PRODUCTS BE USED IN PLACE OF TRADITIONAL STRAW OR SEDIMENT ROLLS AND SILT FENCES. THESE PRODUCTS CAN BE REUSED AFTER THE COMPLETION OF THIS PROJECT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- ALL GRADED AREAS, INCLUDING, BUT NOT LIMITED TO, CUT AND FILL SLOPES, DRIVEWAY, PATIOS, AND BUILDING PADS SHALL BE STABILIZED WITH HYDRAULICALLY APPLIED MATERIAL OR SOIL STABILIZER PER THIS PLAN.
- PRIOR TO PAVING, EACH DROP INLET SHALL BE PROTECTED PER PLAN. AFTER PAVING IS COMPLETE AROUND EACH DROP INLET, PROTECTION SHALL REMAIN UNTIL ALL EXPOSED EARTHEN AREAS HAVE BEEN STABILIZED AND THE PROJECT SITE FACILITIES ARE OPERATIONAL, AT WHICH TIMES THESE MEASURES SHALL BE REMOVED.
- TO MINIMIZE EROSION OF GRADED BANKS, ALL GRADED BANKS STEEPER THAN 2% AND HIGHER THAN 3 FEET, SHALL BE STABILIZED WITH SOILWORKS PRODUCT, HYDRO STRAW GUARD PLUS OR HYDRO STRAW BFM AND SEED, LANDSCAPED, OR SEALED. IF THE PERMANENT STORM DRAIN SYSTEM IS NOT INSTALLED BY OCTOBER 1, TEMPORARY DITCHES SHALL BE CONSTRUCTED TO CONTAIN THE STORM WATER AND DIRECT IT, IN A MANNER THAT AVOIDS EROSION OF THE BANKS, TO THE EROSION AND SEDIMENT CONTROL FACILITIES. FOLLOW THE DESIGN OF THESE FACILITIES IN THIS PLAN.
- ALL CUT AND FILL SLOPES ARE TO BE PROTECTED TO PREVENT OVERBANK FLOW USING FIBER ROLLS (ERTEC S-FENCE), AS SPECIFIED ON THESE PLANS.
- APPLY ATLAS DUST LOCK TO ALL GRADED AREAS, INCLUDING, BUT NOT LIMITED TO, CUT AND FILL SLOPES, DRIVEWAY, PATIOS, AND BUILDING PADS THAT DO NOT HAVE FINAL PAVEMENT OR PERMANENT STABILIZATION.
- BORROW AREAS AND TEMPORARY STOCKPILES SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES PER PLAN TO THE SATISFACTION OF THE CITY ENGINEER.
- SANDBAGS SHALL BE STOCKPILED ON SITE AND PLACED AT INTERVALS SHOWN ON GRADING AND EROSION CONTROL PLANS, WHEN THE RAIN FORECAST IS 40% OR GREATER, OR WHEN DIRECTED BY THE INSPECTOR. SANDBAGS MUST BE FULL. APPROVED SANDBAG FILL MATERIALS ARE SAND, DECOMPOSED GRANITE AND/OR GRAVEL, OR OTHER MATERIALS APPROVED BY THE INSPECTOR. AFTER RAINSTORMS, CONTRACTOR SHALL CHECK FOR AND REMOVE SEDIMENT TRAPPED BY SANDBAGS AT STAGING AREA AND ALONG DRIVEWAY. REPLACE SANDBAGS IF DETERIORATION IS EVIDENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING SAFETY OF VEHICLES OPERATING IN ROADWAY ADJACENT TO EROSION CONTROL FACILITIES. CONTRACTOR SHALL ENSURE THAT PONDING/FLOODING IN STREETS DOES NOT INTERFERE WITH TRAFFIC LANES AT ANY TIME.
- DUST CONTROL SHOULD BE PRACTICED ON ALL CONSTRUCTION SITES WITH EXPOSED SOILS AS NEEDED ESPECIALLY IN WINDY OR WIND-PRONE AREAS. DUST CONTROL IS CONSIDERED A TEMPORARY MEASURE AND AS AN INTERMEDIATE TREATMENT BETWEEN SITE DISTURBANCE AND CONSTRUCTION, PAVING, OR REVEGETATION. REFER TO EROSION CONTROL AND SEDIMENT CONTROL FIELD MANUAL, 3RD EDITION, PREPARED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, SAN FRANCISCO BAY REGION.
- ALL TREES WITHIN THE LIMITS OF WORK ALLOCATED TO REMAIN SHALL BE PROTECTED. SEE DEMOLITION PLAN FOR TREES TO BE REMOVED AND PROTECTED. REFER TO THE LANDSCAPE ARCHITECT FOR SPECIFIC TREE PROTECTION MEASURES OTHER THAN THOSE SPECIFIED IN THIS PLAN.
- PRO-WATTLE MAY BE USED IN PLACE OF S-FENCE EXCEPT FOR PERIMETER PROTECTION AND TOP OF BANK PROTECTION AT SEDIMENT BASIN OUTLETS.
- HYDRO STRAW GUARD PLUS OR HYDRO STRAW BFM TO BE APPLIED PER MANUFACTURER'S RECOMMENDATION AND PER THE DIRECTION OF THE CIVIL ENGINEER TO DISTURBED AREAS NOT TO RECEIVE STRUCTURAL FILL OR VEHICULAR TRAFFIC. SEED MIX PER LANDSCAPE ARCHITECT.

**UTILITY NOTES**

- AVAILABLE INFORMATION CONCERNING THE EXTENT AND LOCATION OF EXISTING UTILITY STRUCTURES (WELL) IS SHOWN ON THE PLAN, BUT CONTRACTOR IS CAUTIONED IT DOES NOT NECESSARILY REPRESENT ACTUAL UTILITY LOCATIONS SIZES OR MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING EXCAVATION OR BELOW GRADE DEMOLITION.
- CONTACT UNDERGROUND UTILITY LOCATOR TO HAVE UTILITIES LOCATED AND MARKED NOT LESS THAN 2 WORKING DAYS, AND NOT MORE THAN 14 WORKING DAYS PRIOR TO EXCAVATION.
- PIPES SHALL BE LAID TRUE TO PROPOSED LINE AND GRADE, WITH NO HORIZONTAL DEVIATIONS OR BELLIES. ALL PIPE JOINTS SHALL BE TIGHT AND FULLY SEALED, SO AS TO ACHIEVE WATER-TIGHT OR SOIL-TIGHT JOINTS, AS APPROPRIATE FOR THE SPECIFIC PIPE TYPE.
- PROPOSED UTILITY STRUCTURES SHALL CONFORM TO THE DETAILS SHOWN ON THE PLANS AND SHALL BE INSTALLED VERTICALLY PLUMB ON A FULLY COMPACTED BASE. STRUCTURES SHALL BE BACKFILLED IN ACCORDANCE WITH THE APPLICABLE DETAIL PER PLAN, AND THE TOP OF EACH STRUCTURE SHALL BE SET SO ALL EXPOSED PORTIONS (FRAME, GRATE, COVER, ETC.) CONFORM TO ADJACENT GRADE UNLESS OTHERWISE NOTED.
- IF A UTILITY OWNER REQUIRES THAT ALL WORK RELATING TO A SPECIFIC BOX RETROFIT OR REPLACEMENT BE EXECUTED BY ITS OWN FORCES OR BY A SEPARATE, UTILITY-CERTIFIED CONTRACTOR, THE CONTRACTOR SHALL PROVIDE INFORMATION TO AND COORDINATE WITH THAT OWNER, TO THE EXTENT NECESSARY TO FULLY FACILITATE THE RECONSTRUCTION WORK.
- SEE CMP ENGINEERED WASTEWATER PLANS DATED OCTOBER 03, 2019, FOR DETAILS AND SPECIFICATIONS ON SELVAGE PUMP TANK, LEACH FIELD, AND ALL SANITARY SEWER MATERIALS.

**GRADING NOTES**

- ALL GRADING AND DRAINAGE TO COMPLY WITH RECOMMENDATIONS IN SOILS REPORT ENTITLED GEOTECHNICAL INVESTIGATION: PROPOSED RESIDENCE, DETACHED GARAGE, SWIMMING POOL AND GYM, PREPARED BY PJC & ASSOCIATES, AUGUST 12, 2019.
- ALL GRADING SHALL CONFORM WITH THE GRADING ORDINANCE.
- THE CONTRACTOR OR ANY SUBCONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT ONE CALL PROGRAM 48 HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER 800-227-2600. EXCAVATION IS BEING 18 OR MORE INCHES IN DEPTH BELOW THE EXISTING GROUND.
- ACTUAL GRADING SHALL BEGIN WITHIN 30 DAYS OF VEGETATION REMOVAL OR THE AREA SHALL BE PLANTED TO CONTROL EROSION. SURFACE PLANT GROWTH ONLY, WHICH DOES NOT EXCEED 4 INCHES IN DEPTH.
- CONTRACTOR SHALL NOTIFY THE COUNTY 48 HOURS PRIOR TO THE INTENTION TO COMMENCE WORK.
- A COPY OF ALL COMPACTION TESTS AND FINAL GRADING REPORTS SHALL BE SUBMITTED TO THE CORRESPONDING AGENCY PRIOR TO SCHEDULING ANY INSPECTIONS.
- PERMANENT CUT AND FILL SLOPES SHALL BE NO STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2H:1V) PER GEOTECHNICAL ENGINEER'S REPORT. TEMPORARY CUT SLOPES SHALL BE REVIEWED AND APPROVED BY GEOTECHNICAL ENGINEER.
- PROVIDE 5 FT OF 2% MINIMUM SLOPE FOR PAVED AREAS, 5% MINIMUM SLOPE FOR SOFTSCAPE AREAS AWAY FROM BUILDINGS ON ALL SIDES UNLESS NOTED OTHERWISE.
- SOIL COMPACTION SHALL BE A MINIMUM OF 90% RELATIVE COMPACTION FOR FILLS. ROAD SUBGRADES SHALL BE COMPACTED TO A 95% RELATIVE COMPACTION PER THE 2020 NAPA COUNTY ROAD AND STREETS STANDARDS.
- THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- TREE PROTECTION FENCING SHALL BE INSTALLED IN PROJECT SCOPE PRIOR TO CONSTRUCTION. SEE EROSION CONTROL PLAN IN THIS PERMIT SET.
- GRADING OR ANY OTHER OPERATION THAT CREATES DUST SHALL BE STOPPED IMMEDIATELY IF DUST AFFECTS ADJACENT PROPERTIES. MUD TRACKED ONTO STREETS OR ADJACENT PROPERTIES SHALL BE REMOVED IMMEDIATELY AS DIRECTED BY A COUNTY INSPECTOR.
- THIS PLAN REFERENCES AN EXISTING TOPOGRAPHIC SURVEY PREPARED BY ALBION SURVEYS, INC. ON MAY 10, 2019, AN EXISTING TOPOGRAPHIC SURVEY BY CMP CIVIL ENGINEERING & LAND SURVEYING IN NOVEMBER OF 2016, AND L.I.D.A.R. DATA FROM THE NAPA COUNTY 2002/2003 ORTHOPHOTOGRAHY PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHICAL INFORMATION PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.

**UNAUTHORIZED CHANGES AND USE**

- SHERWOOD DESIGN ENGINEERS, LTD. SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, OR PROCEDURES UTILIZED BY THE CONTRACTOR, FOR THE SAFETY OF THE PUBLIC OR CONTRACTOR'S EMPLOYEES, OR FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUR THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CIVIL DESIGN ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS. ANY MODIFICATIONS TO THIS DOCUMENT, WITHOUT THE WRITTEN PERMISSION OF SHERWOOD DESIGN ENGINEERS, LTD., SHALL RENDER THE PLANS INVALID AND UNUSABLE.
- NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS ELECTRONIC, MECHANICAL, PHOTOCOPYING, RECORDING, OR OTHERWISE WITHOUT THE PRIOR WRITTEN PERMISSION OF SHERWOOD DESIGN ENGINEERS, LTD., EXCEPT THAT ANY REGULATORY AUTHORITY MAY REPRODUCE AND TRANSMIT COPIES, AS REQUIRED, IN CONJUNCTION WITH PERFORMANCE OF OFFICIAL BUSINESS UNDER ITS JURISDICTION.

**DEMOLITION NOTES**

- WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. THE GEOTECHNICAL REPORT IS AN INTEGRAL PART OF THE CONTRACT DOCUMENTS AND ALL EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED THEREIN.
- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF OR HERSELF WITH THE GEOTECHNICAL REPORTS, ENTITLED GEOTECHNICAL INVESTIGATION: PROPOSED RESIDENCE, DETACHED GARAGE, SWIMMING POOL AND GYM, PREPARED BY PJC & ASSOCIATES, AUGUST 12, 2019. THE CONTRACTOR SHALL KEEP A COPY OF THESE REPORTS ON SITE.
- SEDIMENT AND EROSION CONTROL MEASURES, AS SHOWN ON THESE PLANS, SHALL BE INSTALLED PRIOR TO START OF DEMOLITION.
- EXISTING UTILITIES AND UNDERGROUND FACILITIES INDICATED ARE FOR INFORMATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND DEPTH WITH THE APPROPRIATE AGENCIES AND /OR FIELD INVESTIGATION.
- THE CONTRACTOR OR ANY SUBCONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT ONE CALL PROGRAM 48 HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER 800-227-2600. EXCAVATION IS DEFINED AS REMOVING MATERIAL 18 INCHES OR MORE BELOW EXISTING GRADE.
- THE CONTRACTOR SHALL PHOTO DOCUMENT EXISTING CONDITIONS OF ADJACENT BUILDINGS AND STRUCTURES PRIOR TO COMMENCEMENT OF WORK.
- ALL AREAS TO BE IMPROVED SHALL BE STRIPPED LOOSE SURFACE SOIL AND AGGREGATE BASE. ANY RESULTING EXCAVATIONS THAT EXTEND BELOW FINISHED SUBGRADE SHALL BE BACKFILLED PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
- ALL EXCAVATED AND DEMOLISHED MATERIALS NOT SPECIFIED TO BE REUSED SHALL BE IMMEDIATELY DISPOSED OF ACCORDING TO LOCAL REGULATIONS AND REQUIREMENTS AND NOT ALLOWED TO STOCKPILE ON SITE.
- ALL EXISTING STRUCTURES TO REMAIN AND BE PROTECTED FROM DAMAGE UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING 24-HOUR PER DAY DUST CONTROL.

**ENVIRONMENTAL PROTECTION**

- EROSION AND SEDIMENT CONTROL MEASURES AS REQUIRED BY NAPA COUNTY SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT PROJECT CONSTRUCTION. FAILURE TO PROPERLY INSTALL AND MAINTAIN APPROVED EROSION CONTROL BEST MANAGEMENT PRACTICES (BMPs) WILL RESULT IN A STOPPAGE OF WORK.

**EXISTING CONDITIONS AND DOCUMENTATION**

- EXISTING TOPOGRAPHIC INFORMATION, ON AND OFFSITE IMPROVEMENTS, AND EXISTING UTILITIES SHOWN ON THESE PLANS IS BASED ON SURVEY PREPARED BY ALBION SURVEYS, INC. ON MAY 10, 2019, EXISTING TOPOGRAPHIC SURVEY BY CMP CIVIL ENGINEERING & LAND SURVEYING IN NOVEMBER OF 2016, AND L.I.D.A.R. DATA FROM THE NAPA COUNTY 2002/2003 ORTHOPHOTOGRAHY PROJECT. GRADES ENCOUNTERED ON-SITE MAY VARY FROM THOSE SHOWN. CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS AND CONDUCT FIELD INVESTIGATIONS TO VERIFY EXISTING CONDITIONS AT THE PROJECT SITE.
  - VERTICAL DATUM BASED ON NAVD88 HORIZONTAL DATUM BASED ON NAD83 CALIFORNIA COORDINATE SYSTEM ZONE II PER TRIMBLE GPS OBSERVATIONS USING OPUS SOLUTION.
- THE PROJECT SURVEY IS NOT MEANT TO BE A FULL CATALOG OF EXISTING CONDITIONS. INFORMATION REGARDING EXISTING SURFACE OR SUBSURFACE IMPROVEMENTS AND UTILITIES SHOWN ON THESE PLANS REFLECTS INCOMPLETE AVAILABLE INFORMATION AS OF THE DATE OF DESIGN. CONTRACTOR SHALL CONDUCT FIELD INVESTIGATIONS AND/OR CONTACT THE APPROPRIATE UTILITY AGENCY AS REQUIRED TO VERIFY THE LOCATION AND ELEVATION OF EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES (WHETHER SHOWN ON THESE PLANS OR NOT) PRIOR TO THE COMMENCEMENT OF WORK. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS IN THE FIELD AND INFORMATION SHOWN ON THESE PLANS.
- EXISTING SOIL AND GEOTECHNICAL CONDITIONS AND RECOMMENDATIONS FOR THE CONSTRUCTION OF PROPOSED IMPROVEMENTS ARE SET FORTH IN THE PROJECT SOILS REPORT: GEOTECHNICAL INVESTIGATION: GEOTECHNICAL INVESTIGATION: PROPOSED RESIDENCE, DETACHED GARAGE, SWIMMING POOL AND GYM, PREPARED BY PJC & ASSOCIATES, AUGUST 12, 2019. THESE REPORTS AREA AN INTEGRAL PART OF THE CONTRACT DOCUMENTS AND ALL EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED THEREIN. THE CONTRACTOR SHALL KEEP A COPY OF THE GEOTECHNICAL REPORT ON-SITE.

**FLOODPLAIN CONSTRUCTION NOTES & REQUIREMENTS**

- PROJECT AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN ZONE X PER EFFECTIVE MAP NUMBER: 060550395E PANEL 395 OF 650.

**GENERAL NOTES**

- THE DESIGN SHOWN IN THESE DOCUMENTS WAS BASED ON THE FOLLOWING:
  - 2020 NAPA COUNTY ROAD AND STREET STANDARDS.
  - 2019 BAY AREA STORMWATER MANAGEMENT AGENCIES POST-CONSTRUCTION MANUAL.
- THE SUBSURFACE OF THE CONSTRUCTION SITE MAY BE SENSITIVE FOR PALEONTOLOGICAL RESOURCES. IF PALEONTOLOGICAL RESOURCES ARE ENCOUNTERED DURING PROJECT SUBSURFACE CONSTRUCTION, ALL GROUND-DISTURBING ACTIVITIES WITHIN 50 FEET SHALL BE REDIRECTED AND THE COMMUNITY DEVELOPMENT AGENCY, PLANNING DIVISION SHALL BE CONTACTED, AS WELL AS OTHER CONSULTING AGENCIES AS APPROPRIATE, AND A QUALIFIED PALEONTOLOGIST TO ASSESS THE SITUATION, AND MAKE RECOMMENDATIONS FOR THE TREATMENT OF THE DISCOVERY. PROJECT PERSONNEL SHALL NOT COLLECT OR MOVE ANY PALEONTOLOGICAL MATERIALS. PALEONTOLOGICAL RESOURCES INCLUDE FOSSIL PLANTS AND ANIMALS, AND SUCH TRACE FOSSIL EVIDENCE OF PAST LIFE AS TRACKS. ANCIENT MARINE SEDIMENTS MAY CONTAIN INVERTEBRATE FOSSILS SUCH AS SNAILS, CLAM AND OYSTER SHELLS, SPONGES, AND PROTOZOA, AND VERTEBRATE FOSSILS SUCH AS FISH, WHALE, AND SEA LION BONES. VERTEBRATE LAND MAMMALS MAY INCLUDE BONES OF MAMMOTH, CAMEL, SABER-TOOTH CAT, HORSE, AND BISON. PALEONTOLOGICAL RESOURCES ALSO INCLUDE PLANT IMPRINTS, PETRIFFED WOOD, AND ANIMAL TRACKS.
- IF HUMAN REMAINS ARE ENCOUNTERED DURING PROJECT ACTIVITIES, WORK WITHIN 50 FEET OF THE DISCOVERY SHALL BE REDIRECTED AND THE COUNTY CORONER NOTIFIED IMMEDIATELY. AT THE SAME TIME, AN ARCHAEOLOGIST SHALL BE CONTACTED TO ASSESS THE SITUATION AND CONSULT WITH AGENCIES AS APPROPRIATE. PROJECT PERSONNEL SHALL NOT COLLECT OR MOVE ANY HUMAN REMAINS AND ASSOCIATED MATERIALS. IF THE HUMAN REMAINS ARE OF NATIVE AMERICAN ORIGIN, THE CORONER MUST NOTIFY THE NATIVE AMERICAN HERITAGE COMMISSION WITHIN 24 HOURS OF THIS IDENTIFICATION. THE NATIVE AMERICAN HERITAGE COMMISSION WILL IDENTIFY A MOST LIKELY DESCENDANT (MLD) TO INSPECT THE SITE AND PROVIDE RECOMMENDATIONS FOR THE PROPER TREATMENT OF THE REMAINS AND ASSOCIATED GRAVE GOODS.
- EXISTING PROPERTY LINES AND EASEMENTS SHOWN ON THIS PLAN ARE APPROXIMATE.
- PROJECT IS LOCATED AT LATITUDE OF 38.401° N AND LONGITUDE OF 122.413° W ACCORDING TO GPS MEASUREMENTS AS TAKEN FROM THE GEOTECHNICAL REPORT.
- REFER TO FIRST AMERICAN TITLE COMPANY OF NAPA ORDER NO. 00210404-CW FOR PROPERTY GRANT DEED AND PRELIMINARY TITLE REPORT.



SCALE: 1" = 20'

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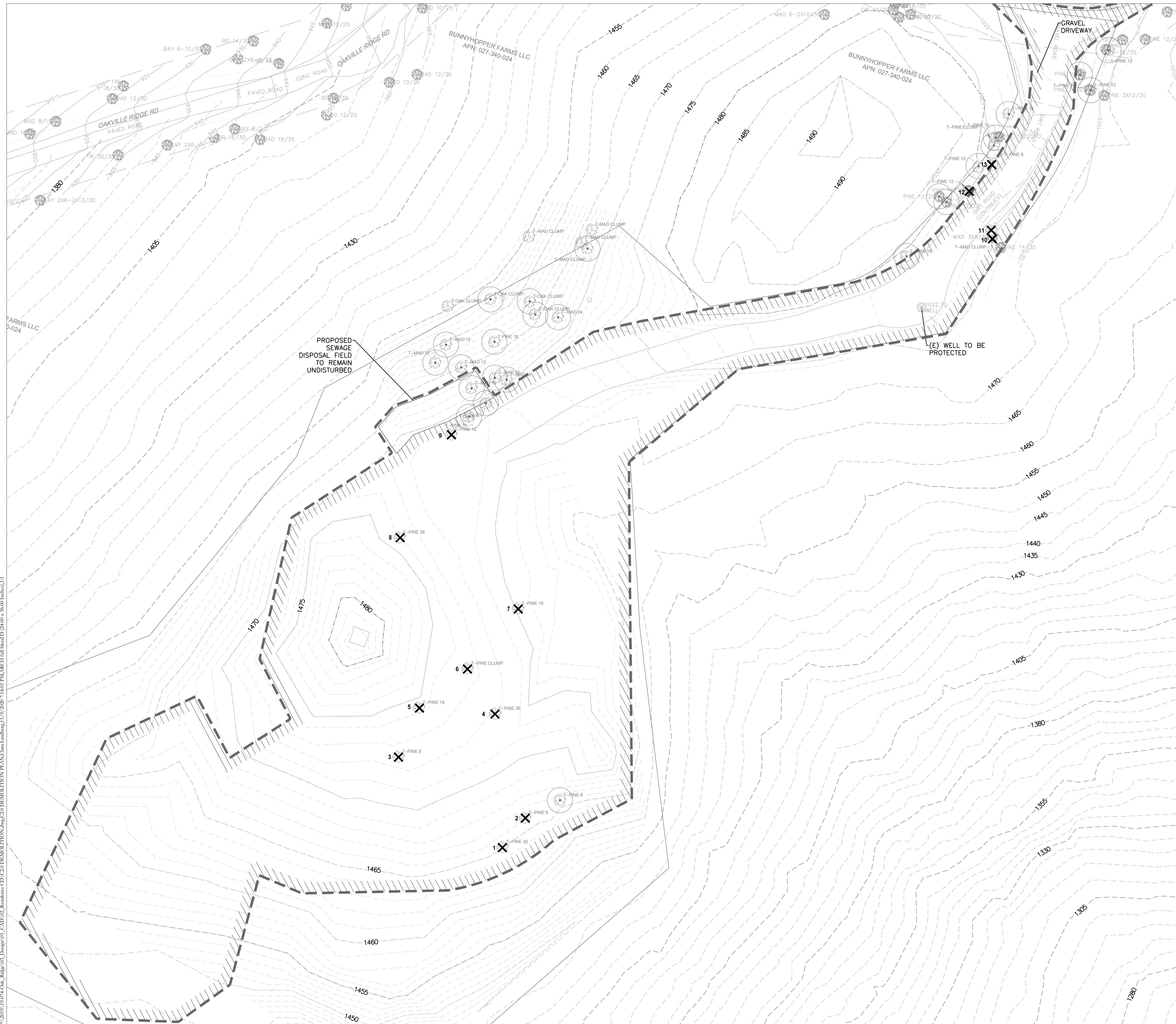
PROJECT NO.	19-074
DATE	11/09/2020
DRAWN	CL
DESIGNED	CL
CHECKED	CA

KALLWEIT RESIDENCE  
OAKVILLE RIDGE  
NAPA, CALIFORNIA









**LEGEND:**

LIMIT OF WORK

CLEAR AND GRUB

(E) TREE TO BE REMOVED, SLP

(E) TREE TO REMAIN, PIP, SLP

- NOTES:**
1. CONTRACTOR IS RESPONSIBLE TO LEGALLY DISPOSE OF ALL REMOVED MATERIALS AT THE CONTRACTORS EXPENSE.
  2. THE CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
  3. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL OF THE WORK PERFORMED BY HIS SUBCONTRACTORS, WITHOUT EXCEPTION.
  4. THE CONTRACTOR SHALL IDENTIFY A RESPONSIBLE CONTACT, WHO IS AN EMPLOYEE OF THE CONTRACTOR, AND A 24-HOUR TELEPHONE NUMBER TO CALL TO RESOLVE PROBLEMS WITH NOISE, DUST OR OTHER CONSTRUCTION-RELATED ISSUES.
  5. CONSTRUCTION ACTIVITY SHALL BE RESTRICTED TO THE HOURS APPROVED BY THE COUNTY OF NAPA.



SCALE: 1" = 20'

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PROJECT NO. 19-074

DATE 11/09/2020

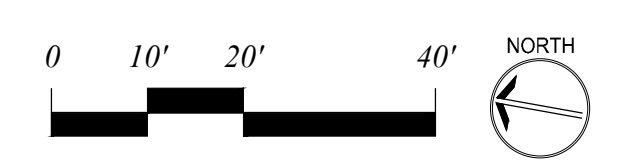
DRAWN CL

DESIGNED CL

CHECKED CA

TREE DEMOLITION			
NUMBER	TRUNK DIAMETER (INCHES)	SPECIES	STATUS (ALIVE/DEAD)
1	30	PINE	DEAD
2	8	PINE	ALIVE
3	8	PINE	ALIVE
4	36	PINE	ALIVE
5	18	PINE	ALIVE
6	CLUMP	PINE	DEAD
7	10	PINE	ALIVE
8	36	PINE	DEAD
9	10	PINE	ALIVE
10	CLUMP	MADRONE	ALIVE
11	CLUMP	MADRONE	ALIVE
12	12	PINE	ALIVE
13	12	PINE	ALIVE

KALLWEIT RESIDENCE  
OAKVILLE RIDGE  
NAPA, CALIFORNIA



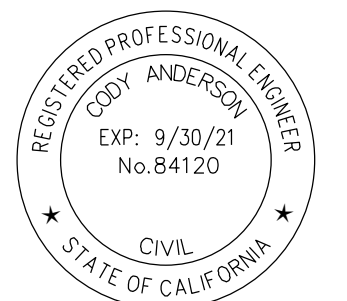
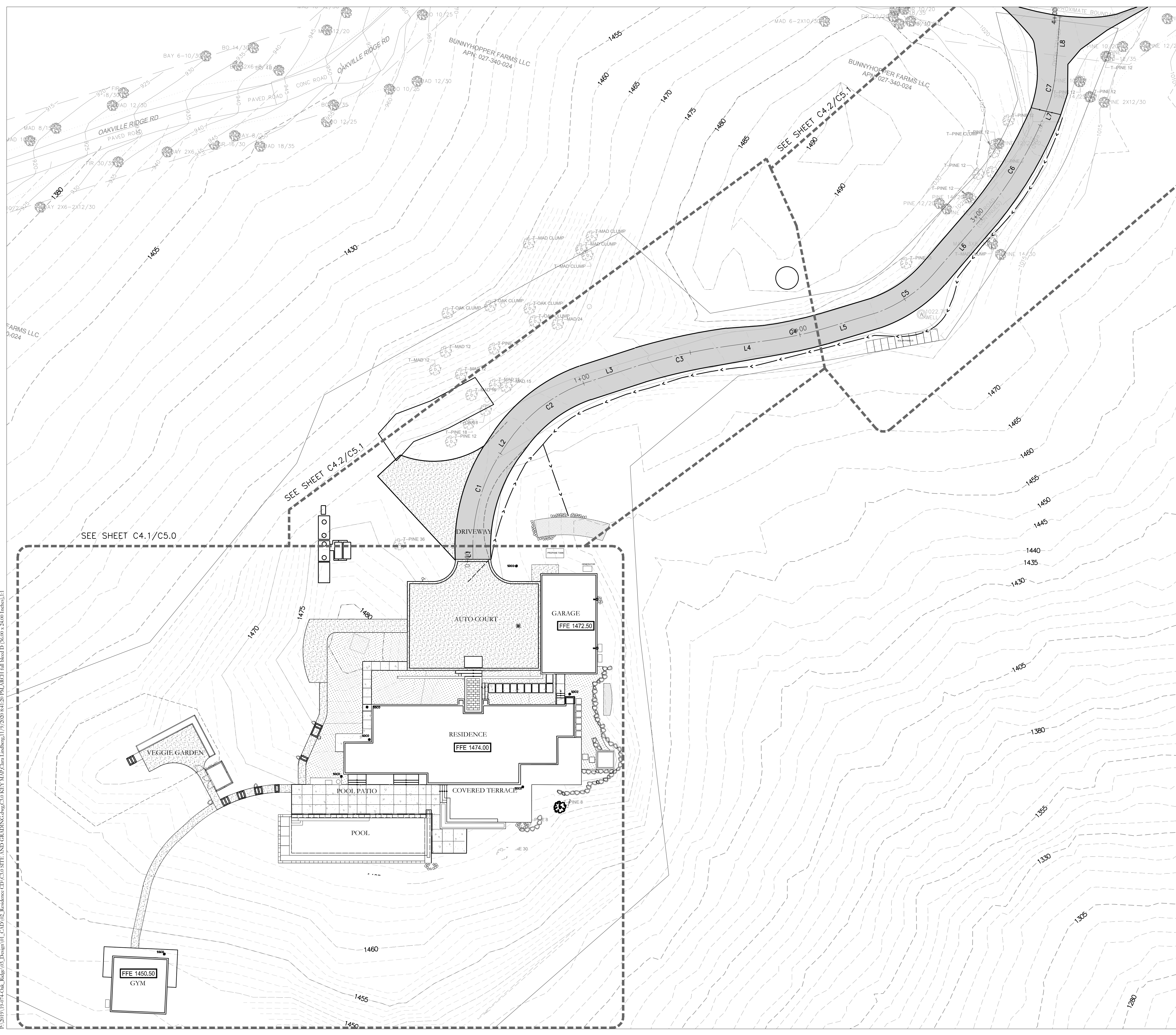
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DRIVEWAY CENTERLINE

Line Table		
Line #	Length	Direction
L1	5.21	N72° 38' 33.75"E
L2	5.00	S72° 55' 17.75"E
L3	26.00	S35° 03' 11.24"E
L4	16.00	N24° 51' 50.79"W
L5	25.00	N33° 51' 25.63"W
L6	36.50	N66° 26' 19.66"W
L7	3.56	N84° 24' 42.09"W
L8	25.82	S77° 30' 34.32"W

Curve Table			
Curve #	Length	Radius	Delta
C1	46.70	77.87	34.36
C2	43.86	70.50	35.65
C3	40.96	270.00	8.69
C4	27.27	183.00	8.54
C5	31.09	60.75	29.32
C6	50.27	183.00	15.74
C7	17.26	56.50	17.50



SCALE: 1" = 20'

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KALLWEIT RESIDENCE  
OAKVILLE RIDGE  
NAPA, CALIFORNIA

KEY MAP

C3.0

P:\2019\19-074\_Oak\_Ridge\03\_Design\03\_CADD\02\_Base\sdwncd\03\SITE AND GRADING\dwg\C3.0\_SKEY\_MAP.dwg (Plot Size: 24.00 Inches) 1/1





SCALE: 1" = 20'

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PROJECT NO. 19-074

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	CL	DESIGNED
	CA	CHECKED

KALLWEIT RESIDENCE  
OAKVILLE RIDGE  
NAPA, CALIFORNIA

SITE PLAN

C4.0

**LEGEND**

ASPHALT DRIVEWAY SEE DETAIL G/7.0	
CRUSHED GRAVEL PAVING, SLP	
CONCRETE PAVING, SLP	
FRONT PORCH FIELD PAVING, SLP	
FIRE RATED TURFBLOCK PAVING, SLP	
PLANTER AREA, SLP	
BIORETENTION AREA	
MINOR CONTOUR	1476
MAJOR CONTOUR	1475
LIMITS OF DISTURBED AREA	
VEGETATED DRAINAGE SWALE SEE DETAIL F/C7.0	
DRAINAGE DIRECTION	
FINISH FLOOR ELEVATION	FFE 1474

**NOTES**

- NO STRUCTURE, IMPROVEMENT, GRADING, EARTHMOVING ACTIVITY, VEGETATION REMOVAL OR DEVELOPMENT SHALL BE PERMITTED ON A SLOPE GREATER THAN FIFTY PERCENT
- SEE LANDSCAPE PLANS FOR ADDITIONAL ARCHITECTURAL SITE DETAILS
- SEE LANDSCAPE PLANS FOR GRADING IN POOL AREA
- SEE LANDSCAPE PLANS FOR LANDSCAPE AND WALKWAYS MATERIAL AND FINISHES.
- STOCKPILE AND CONCRETE WASHOUT TO BE LOCATED BY CONTRACTOR PER DETAILS ON SHEET C7.2

**DRIVEWAY/TURNOUT LINE AND CURVE TABLES**

Line Table		
Line #	Length	Direction
L1	8.67	S70°22'38.81"E
L2	26.00	S35°03'11.24"E
L3	34.54	S27°04'54.90"E
L4	25.33	N33°52'27.87"W
L5	36.64	N66°25'15.18"W
L6	8.25	S73°12'28.33"E
L7	26.00	S35°03'11.24"E
L8	16.08	S21°17'50.46"E
L9	25.00	N33°51'25.63"W
L10	36.50	N66°26'19.66"W
L11	6.46	N82°21'53.01"W
L12	14.00	S59°59'56.31"E
L13	51.60	N30°05'49.86"E

Curve Table			
Curve #	Length	Radius	Delta
C1	47.86	69.83	039.27
C2	34.32	60.12	032.71
C3	31.45	262.00	006.88
C4	19.79	190.00	005.97
C5	34.67	67.75	029.32
C6	56.46	174.50	018.54
C7	53.41	85.00	036.00
C8	48.84	78.50	035.65
C9	42.17	278.00	008.69
C10	26.22	176.00	008.54
C11	27.51	53.75	029.32
C12	43.79	176.00	014.26
C13	39.42	40.65	055.56



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SCALE: 1" = 10'

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PROJECT NO. 19-074

DATE 11/09/2020

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KALLWEIT RESIDENCE  
OAKVILLE RIDGE  
NAPA, CALIFORNIA

GRADING  
AND  
EROSION  
CONTROL

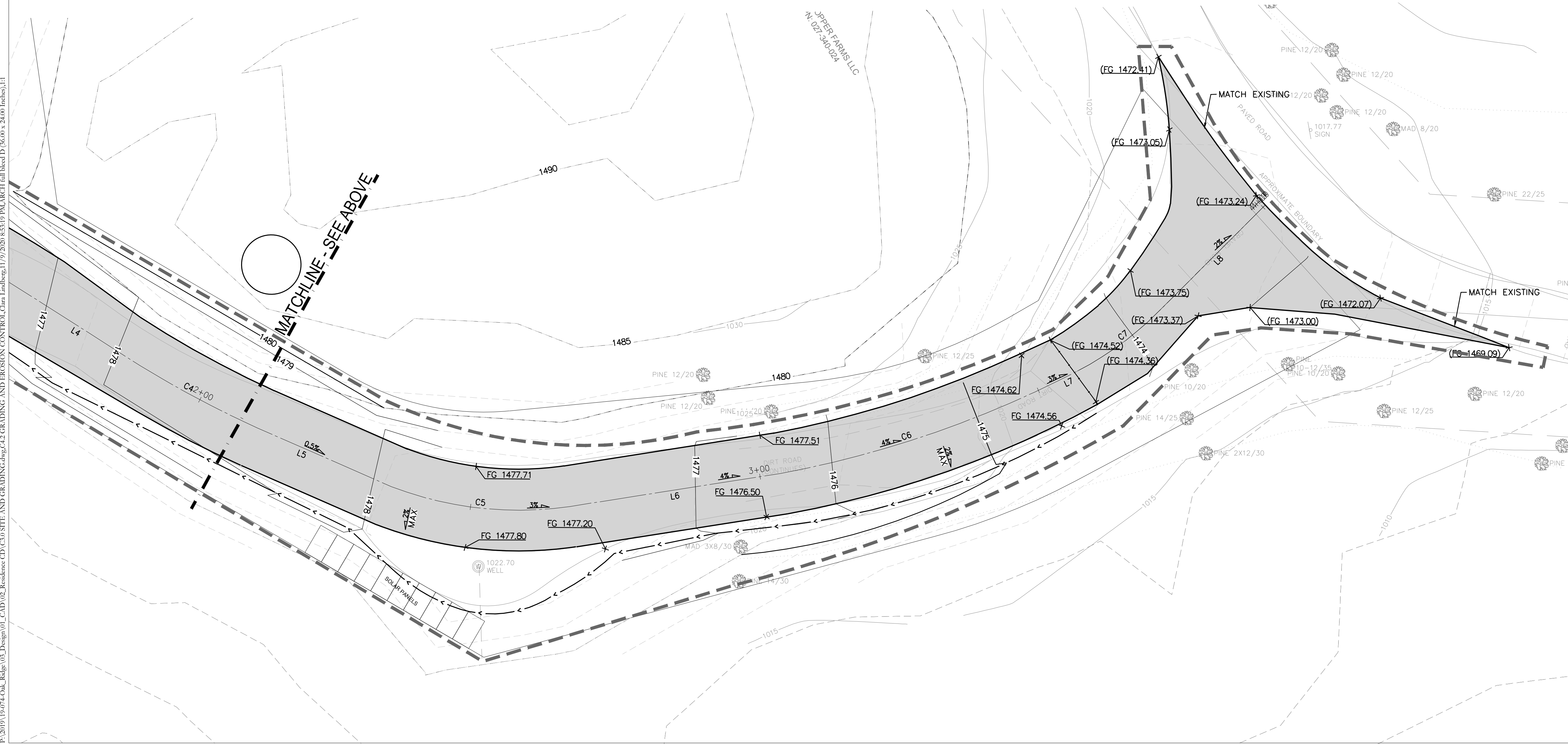
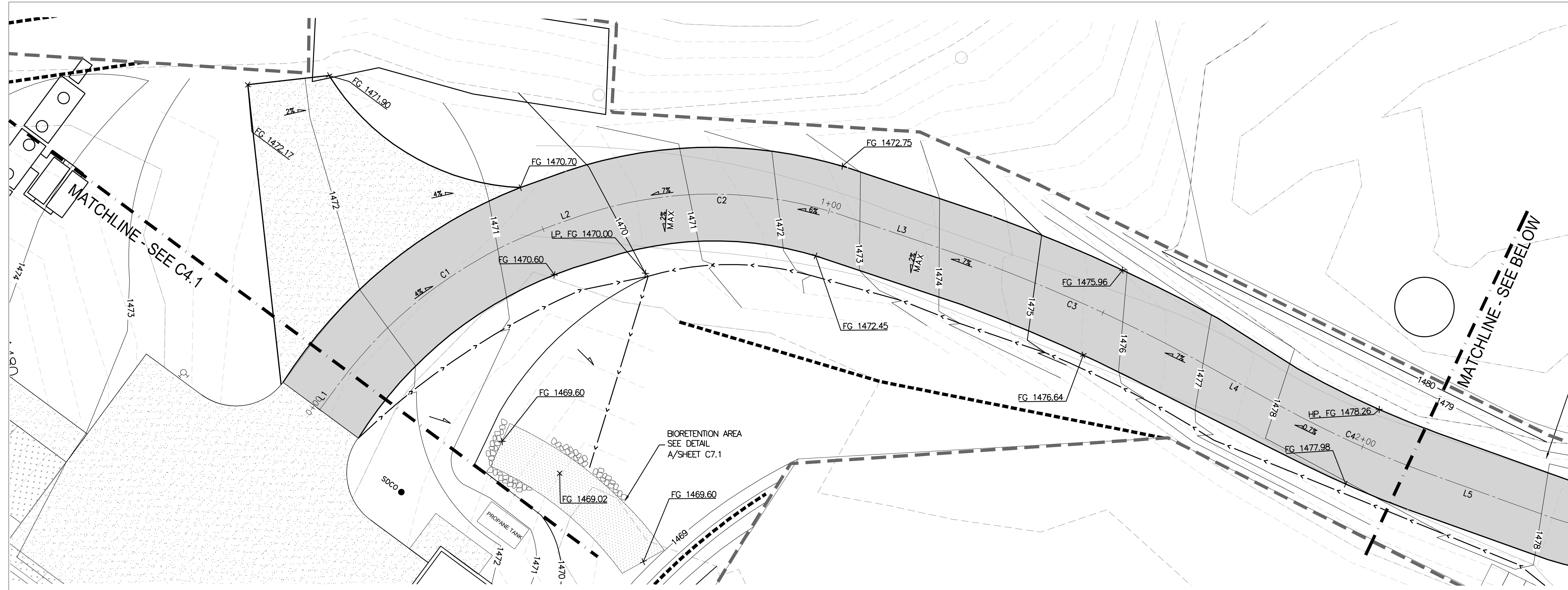
C4.2

**LEGEND**

- ASPHALT DRIVEWAY  
SEE DETAIL G/7.0
- CRUSHED GRAVEL  
PAVING, SLP
- CONCRETE PAVING, SLP
- FRONT PORCH FIELD  
PAVING, SLP
- FIRE RATED TURFBLOCK  
PAVING, SLP
- PLANTER AREA, SLP
- BIORETENTION AREA
- MINOR CONTOUR  
1476
- MAJOR CONTOUR  
1475
- LIMITS OF DISTURBED AREA
- VEGETATED DRAINAGE SWALE  
SEE DETAIL F/C7.0
- DRAINAGE DIRECTION
- FINISH FLOOR ELEVATION  
FFE 1474
- SILT FENCE DROP INLET
- FIBER ROLLS

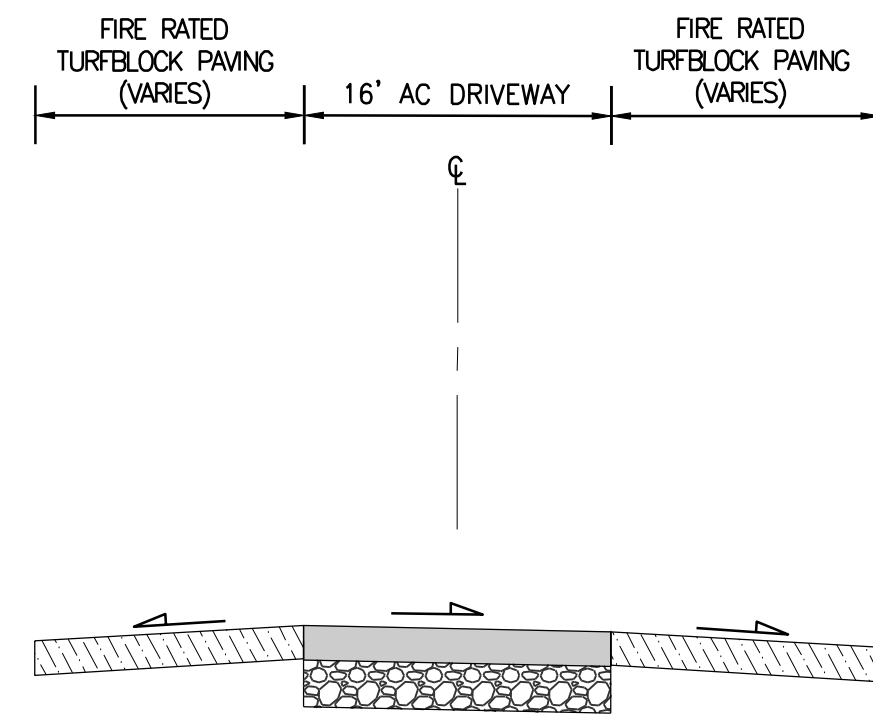
**NOTES**

1. NO STRUCTURE, IMPROVEMENT, GRADING, EARTHMOVING ACTIVITY, VEGETATION REMOVAL OR DEVELOPMENT SHALL BE PERMITTED ON A SLOPE GREATER THAN FIFTY PERCENT
2. SEE LANDSCAPE PLANS FOR ADDITIONAL ARCHITECTURAL SITE DETAILS
3. SEE LANDSCAPE PLANS FOR GRADING IN POOL AREA
4. SEE LANDSCAPE PLANS FOR LANDSCAPE AND WALKWAYS MATERIAL AND FINISHES.
5. STOCKPILE AND CONCRETE WASHOUT TO BE LOCATED BY CONTRACTOR PER DETAILS ON SHEET C7.2

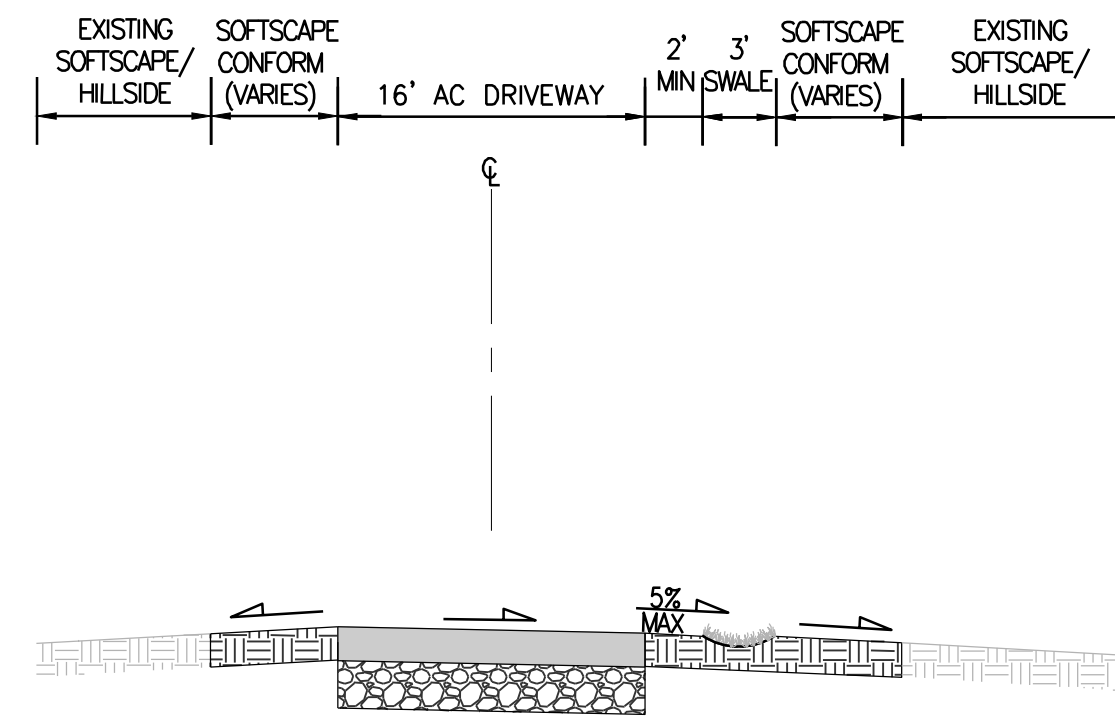


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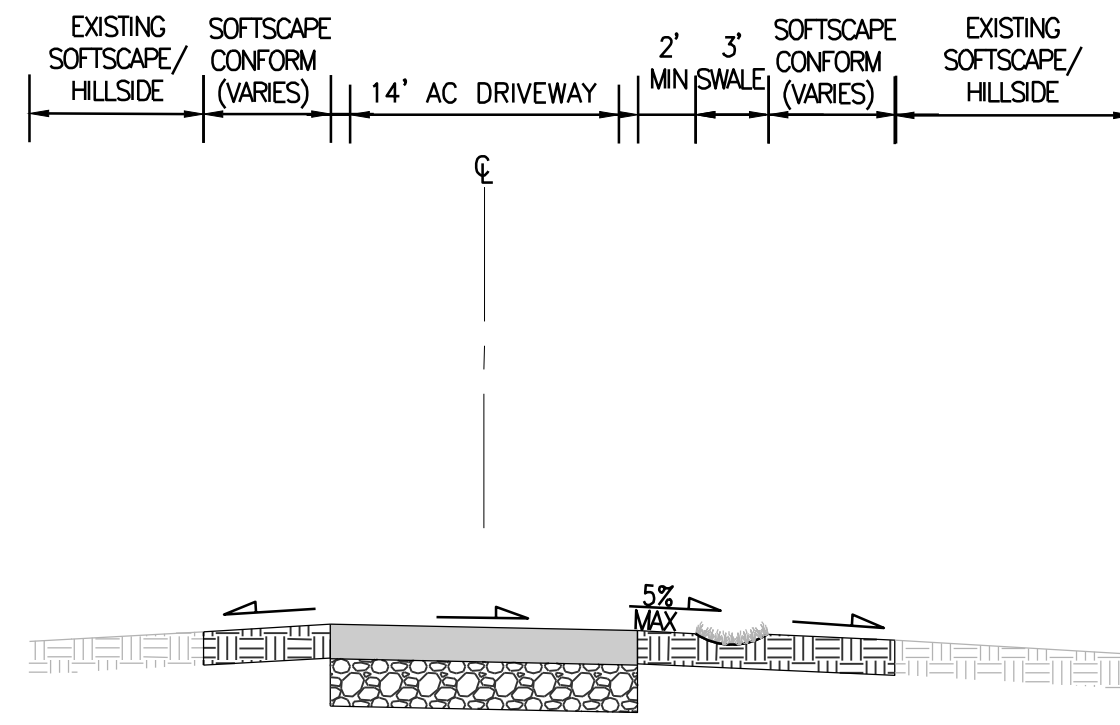




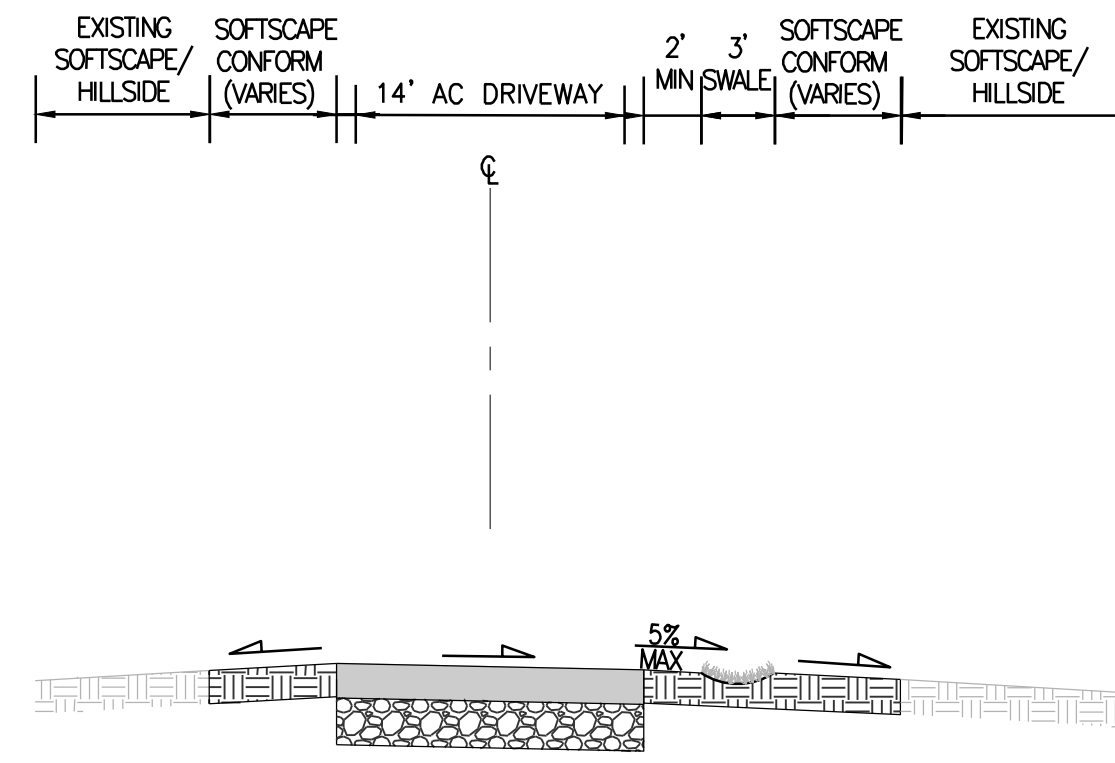
SECTION 0+00  
SCALE:  
H 1"=10'  
V NTS



SECTION 1+00  
SCALE:  
H 1"=10'  
V NTS



SECTION 2+00  
SCALE:  
H 1"=10'  
V NTS



SECTION 3+00  
SCALE:  
H 1"=10'  
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SCALE: 1" = 10'  
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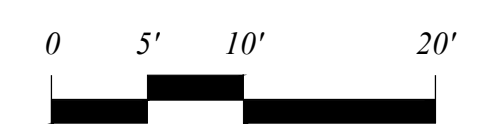
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KALLWEIT RESIDENCE  
OAKVILLE RIDGE  
NAPA, CALIFORNIA

TYPICAL  
DRIVEWAY  
SECTIONS

C4.3







SCALE: 0" = 40'

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KALLWEIT RESIDENCE  
OAKVILLE RIDGE  
NAPA, CALIFORNIA

SLOPE ANALYSIS

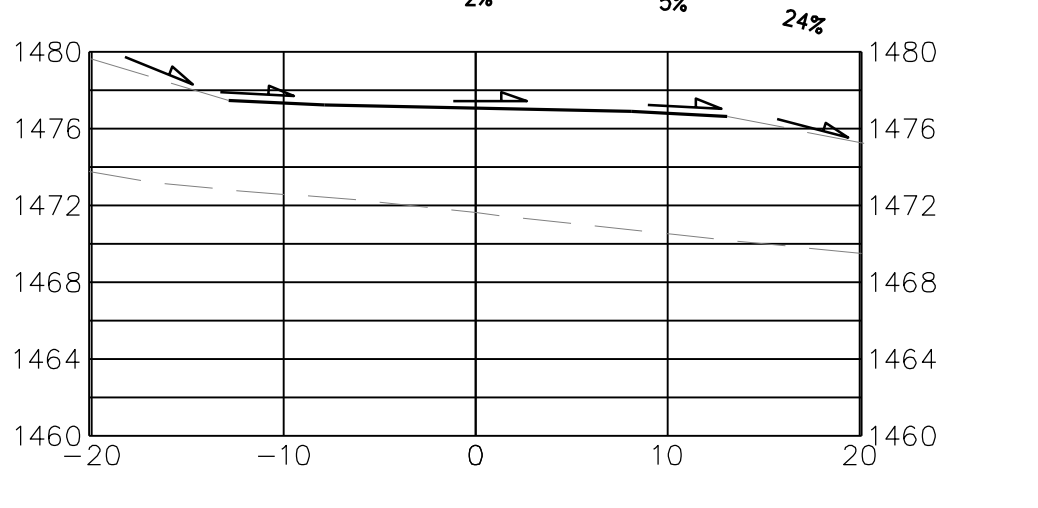
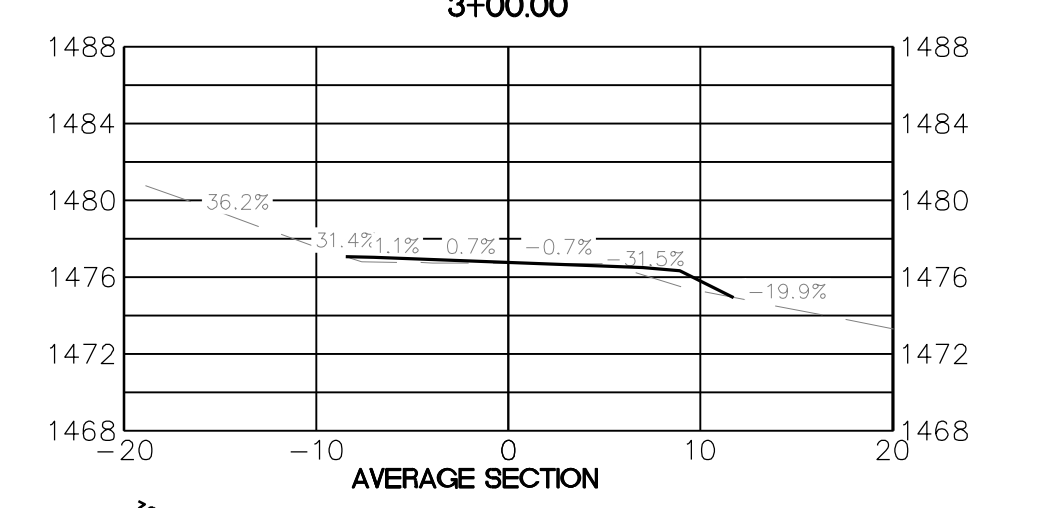
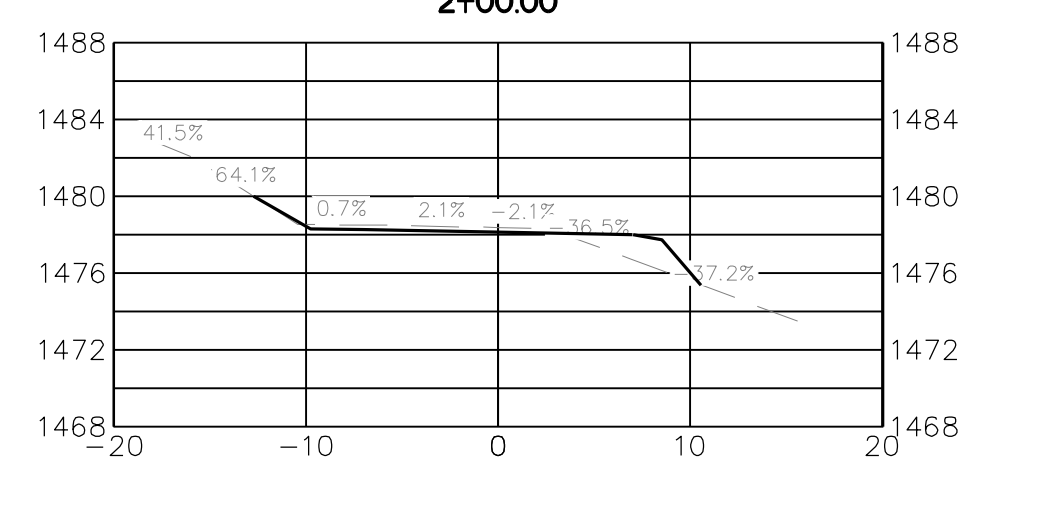
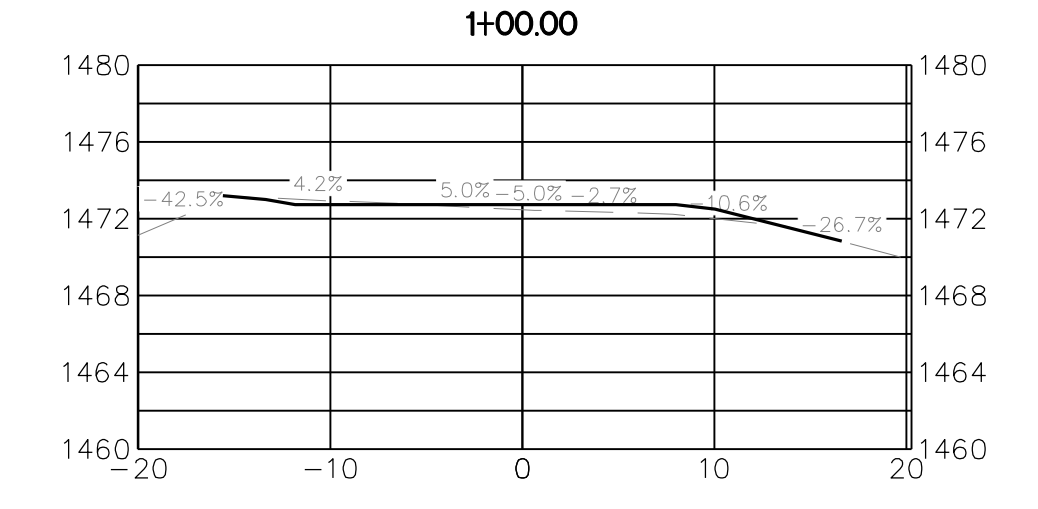
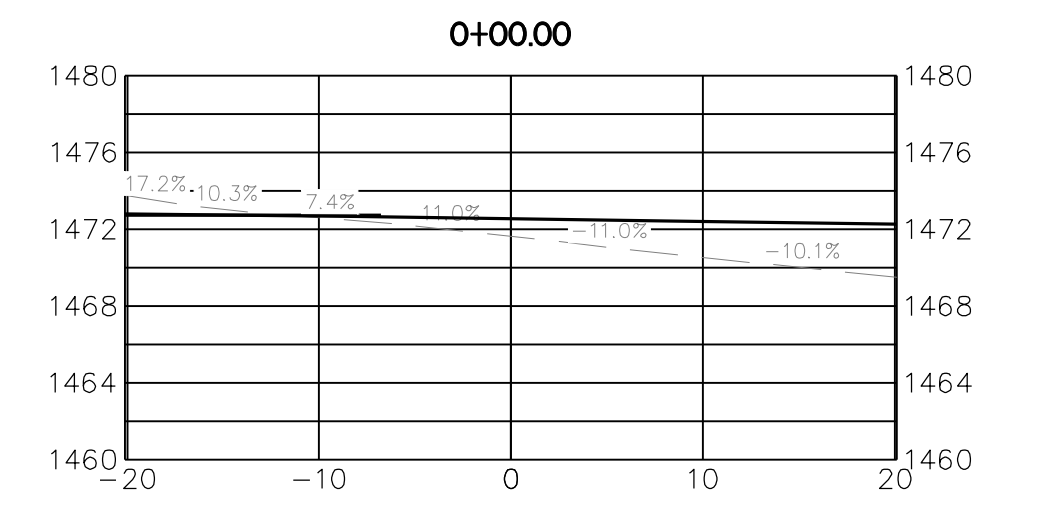
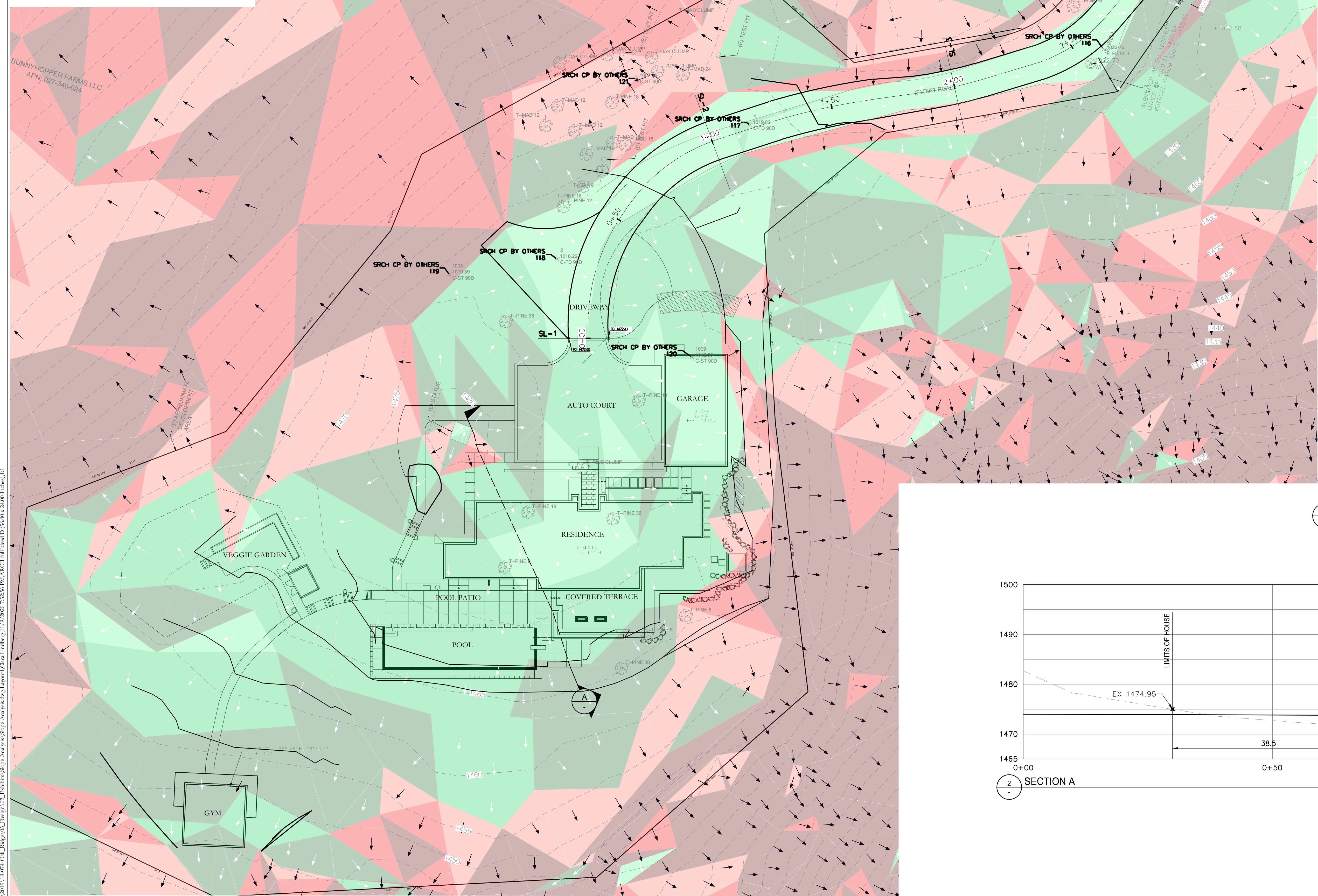
C4.4

**SLOPES TABLE**

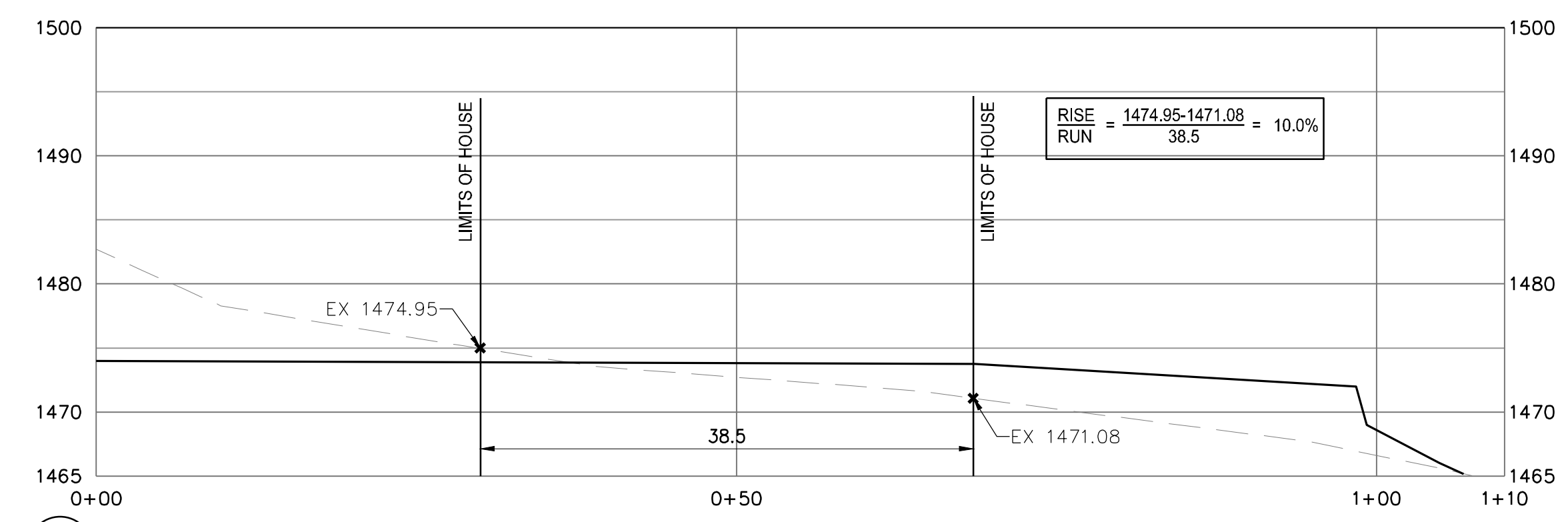
NUMBER	MIN SLOPE	MAX SLOPE	COLOR
1	0.0%	10.00%	Light Green
2	10.00%	20.00%	Green
3	20.00%	30.00%	Dark Green
4	30.00%	40.00%	Red-Orange
5	40.00%	50.00%	Red
6	50.00%	-	Dark Red

**SLOPE ARROWS**

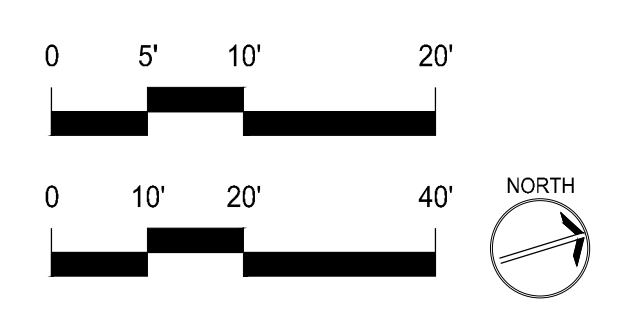
NUMBER	MIN SLOPE	MAX SLOPE	COLOR
1	0.01%	30.00%	White
2	30.00%	-	Black



1 DRIVELWAY SECTIONS SCALE: 1"=10'



2 SECTION A SCALE: 1"=10'



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**LEGEND**

PRESSURIZED SEPTIC TRANSPORT LINE	SS	SS
FIRE WATER LINE	FW	FW
DOMESTIC WATER LINE	DW	DW
WATER LINE	W	W
ELECTRICAL LINE	E	E
CLEAN OUT SEE DETAIL D/C7.0	SDCO	●
LEVEL SPREADER SEE DETAIL A/C7.1		---
SLOT DRAIN SEE DETAIL A/C7.0		—
BUILDING FOUNDATION SUBDRAIN SEE DETAIL C/C7.0	UD	UD
DOWNSPOUT		⊕
OUTFALL SEE DETAIL B/C7.0		⌋
STORM DRAIN LINE	SD	SD
CATCH BASIN SEE DETAIL H/C7.0		□



SCALE: 1" = 10'

Note: If the graphic scale does not equal 1", this sheet has been modified from its original size.

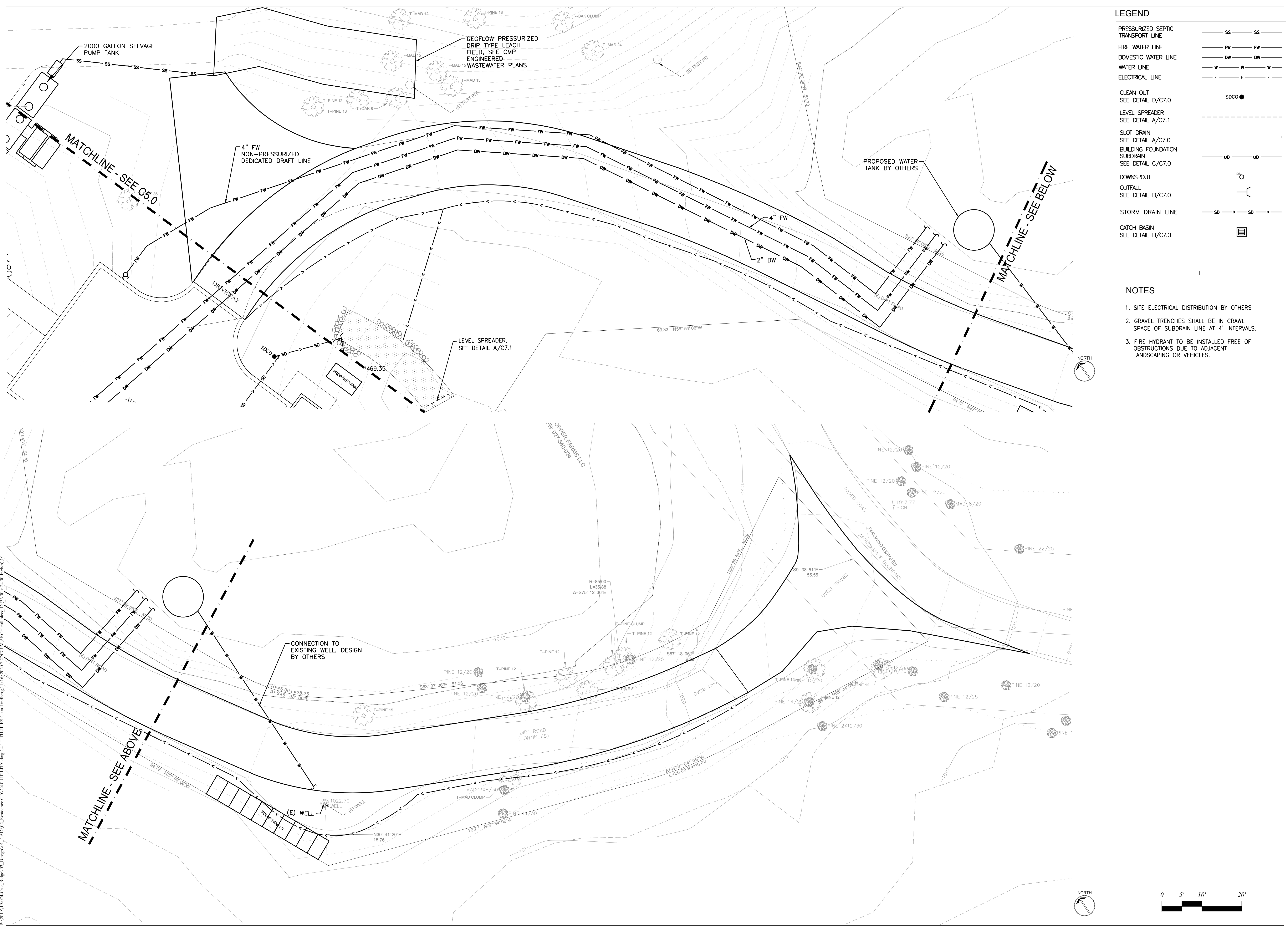
NO	DATE	REVISION

**NOTES**

- SITE ELECTRICAL DISTRIBUTION BY OTHERS
- GRAVEL TRENCHES SHALL BE IN CRAWL SPACE OF SUBDRAIN LINE AT 4' INTERVALS.
- FIRE HYDRANT TO BE INSTALLED FREE OF OBSTRUCTIONS DUE TO ADJACENT LANDSCAPING OR VEHICLES.

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DESIGNED	CL
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**KALLWEIT RESIDENCE  
OAKVILLE RIDGE  
NAPA, CALIFORNIA**

**UTILITY PLAN**

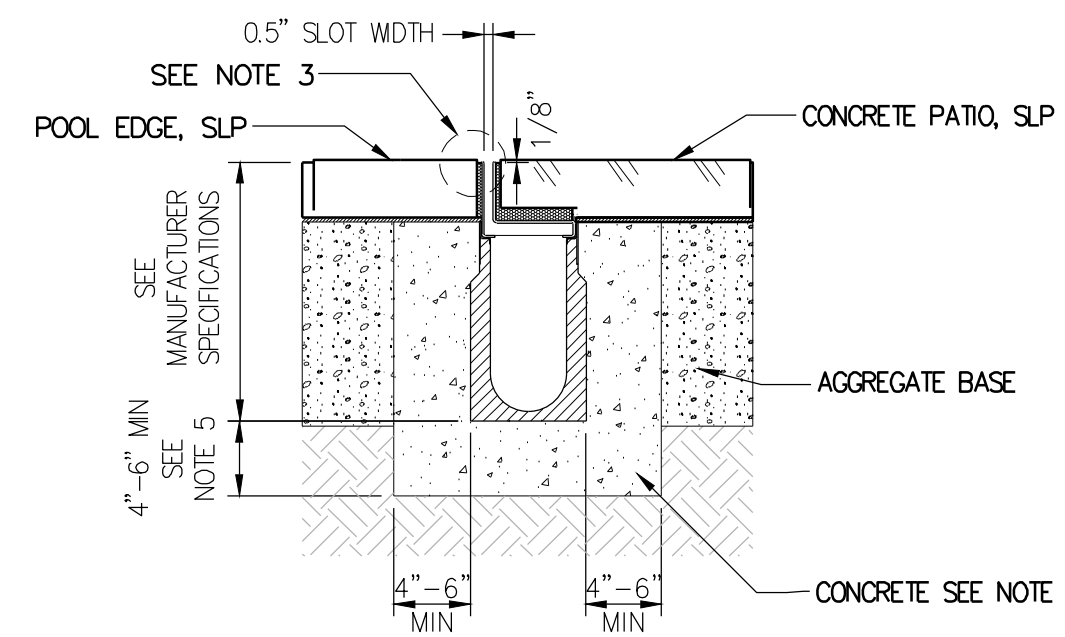
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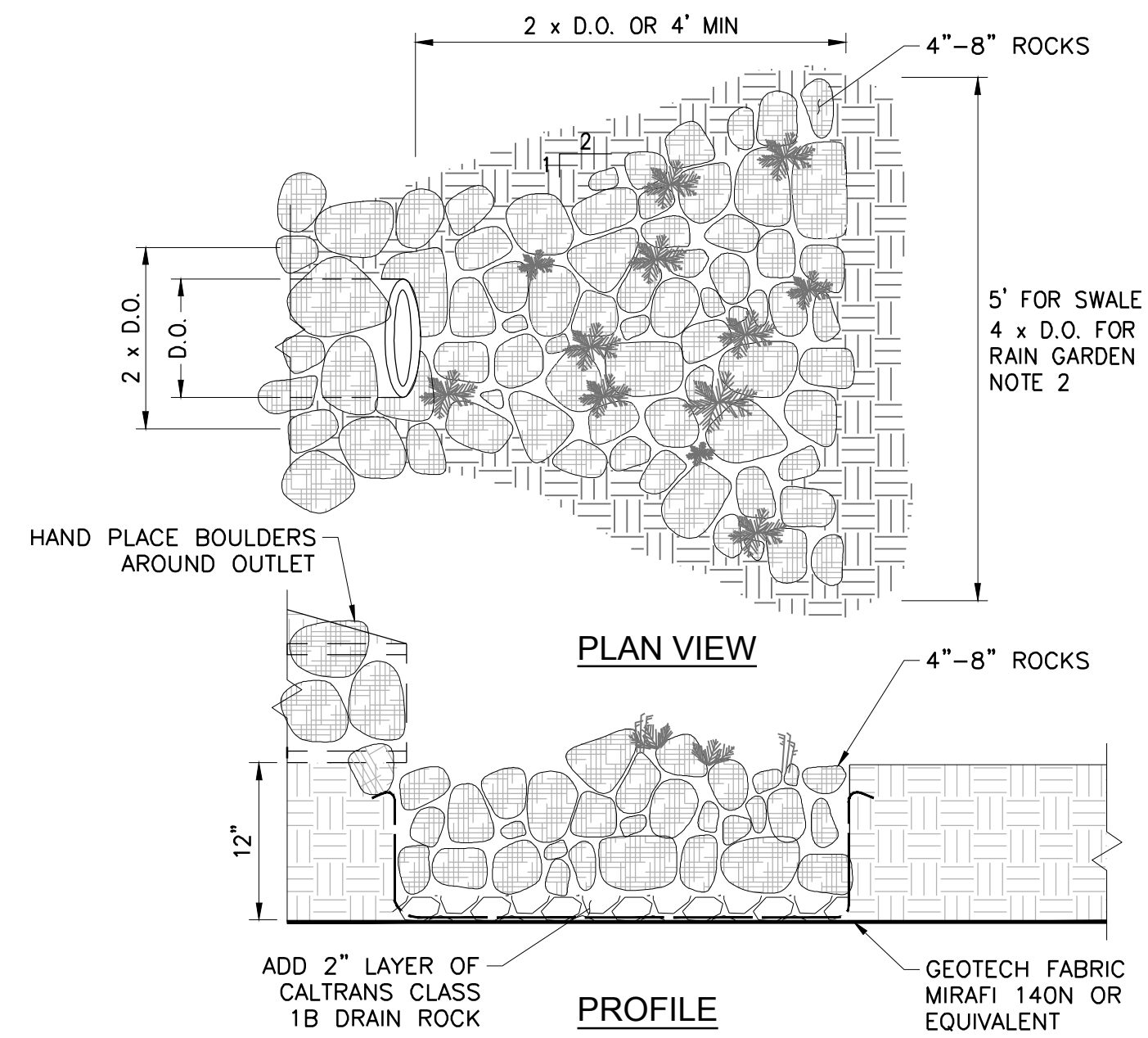


**NOTES**

1. ACO STAINLESS STEEL BRICK SLOT 100 (ADA RATED) WITH KLASSIKDRAIN K100 CHANNEL SYSTEM (OR APPROVED EQUAL).
2. A MINIMUM CONCRETE STRENGTH OF 3000 PSI IS RECOMMENDED. THE CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. PAVING TO BE 1/8" ABOVE CHANNEL EDGE. A BEAD OF SEALANT CAN BE USED BETWEEN THE RAIL & CONCRETE.
4. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR COMPLETE DETAILS.
5. CONCRETE BASE THICKNESS AND INSTALLATION SHALL BE COORDINATED WITH STRUCTURAL SLAB (SAP, SSP)
6. CONTACT ACO FOR RECOMMENDATIONS ON DRAINING WHEN USING OPTIONAL MEMBRANE MATERIAL WITH BRICKSLOT.

**A** SLOT DRAIN

SCALE: NTS

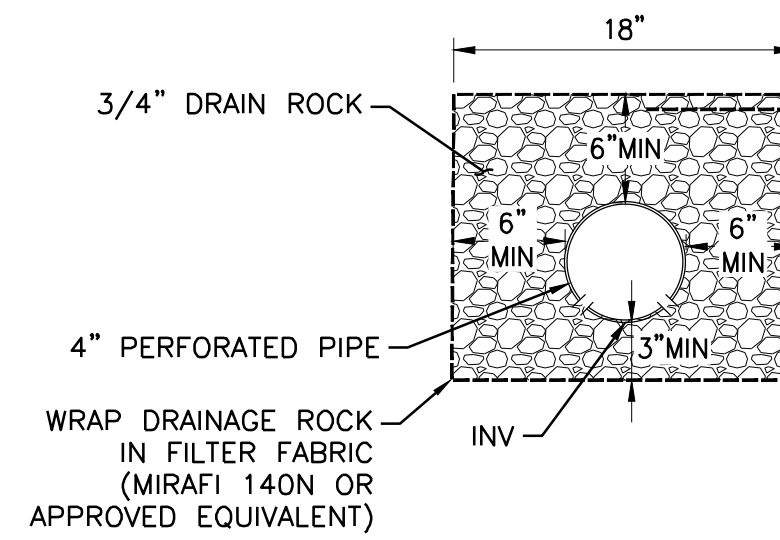


**NOTES**

1. INITIAL WIDTH OF STONE APRON SHALL BE AT A MINIMUM EQUAL TO TWICE THE OUTLET PIPE DIAMETER (D.O.).
2. AT A MINIMUM THE APRON SHALL FAN OUT AT 2:1 (LONGITUDINAL:LATERAL) UP TO AN ULTIMATE WIDTH EQUAL TO THAT OF THE RECEIVING SWALE; IN THE CASE OF A RAIN GARDEN, FOUR (4) TIMES THE OUTLET PIPE DIAMETER.
3. ALL STONE PLACEMENT TO BE APPROVED BY ENGINEER IN THE FIELD PRIOR TO CONSTRUCTION.

**B** STORM DRAIN OUTFALL

SCALE: NTS

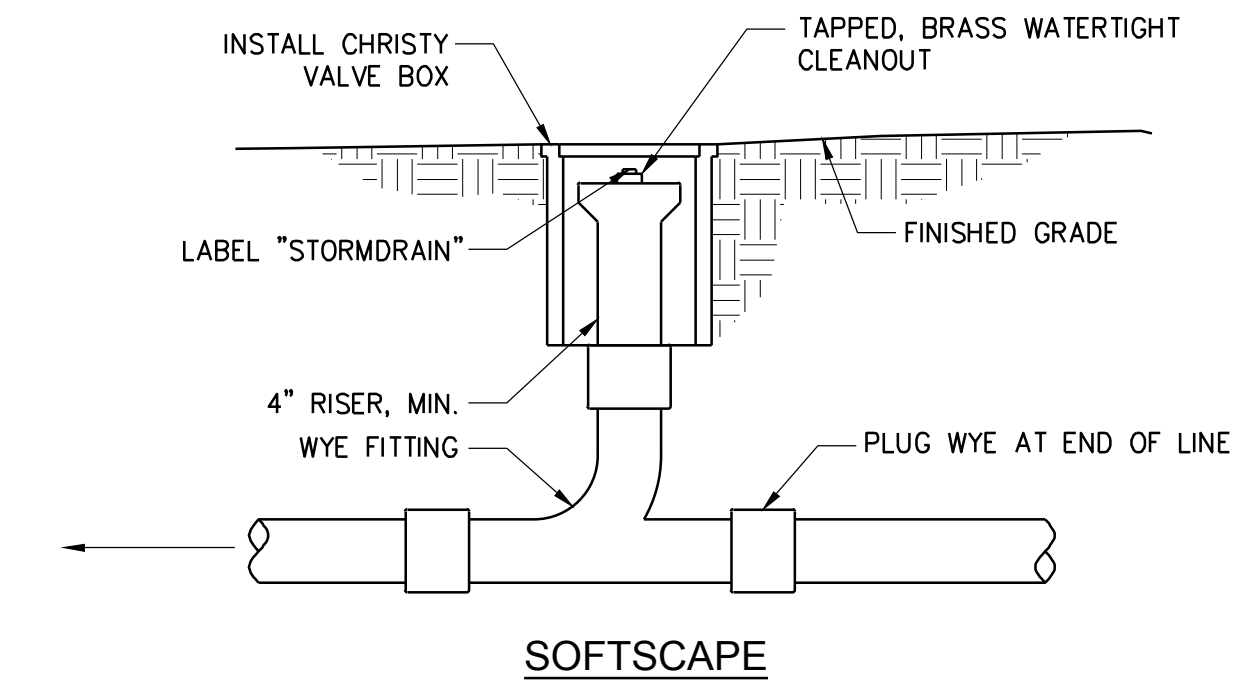


**NOTES**

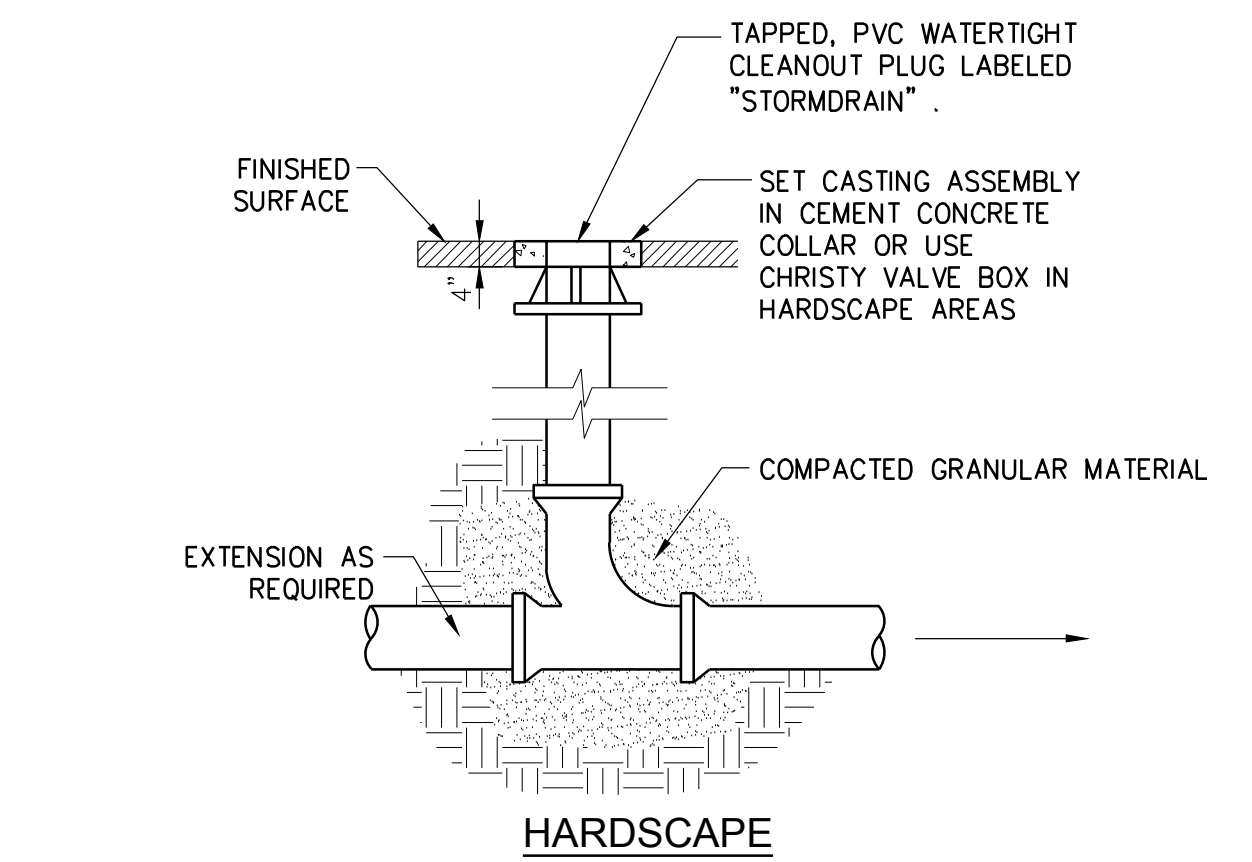
1. INSTALL PERFORATED PIPE WITH PERFORATIONS FACING DOWN.
2. WRAP DRAIN ROCK IN FILTER FABRIC (MIRAFI 140N OR APPROVED EQUIVALENT) AS INDICATED.
3. SEE PLANS FOR LOCATION AND INVERT ELEVATIONS OF SUBDRAIN.
4. SUBDRAIN SHALL BE INSTALLED WITH A MINIMUM 1.5 FEET OF COVER.

**C** SUBDRAIN

SCALE: NTS



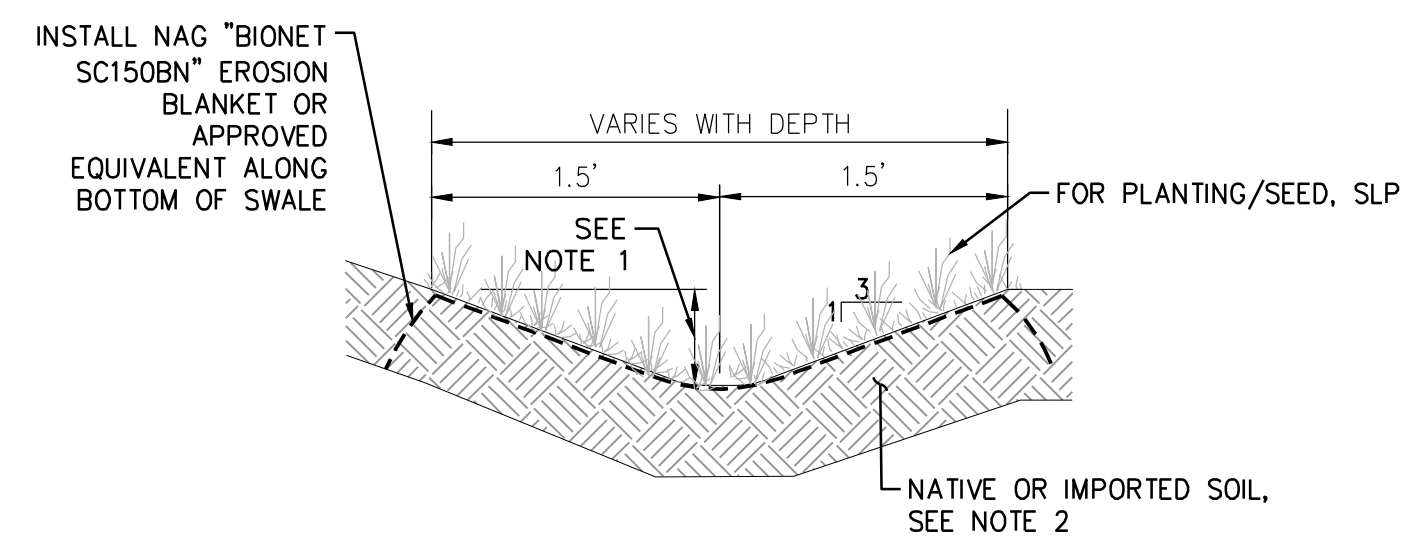
**SOFTSCAPE**



**HARDSCAPE**

**D** CLEANOUT

SCALE: NTS

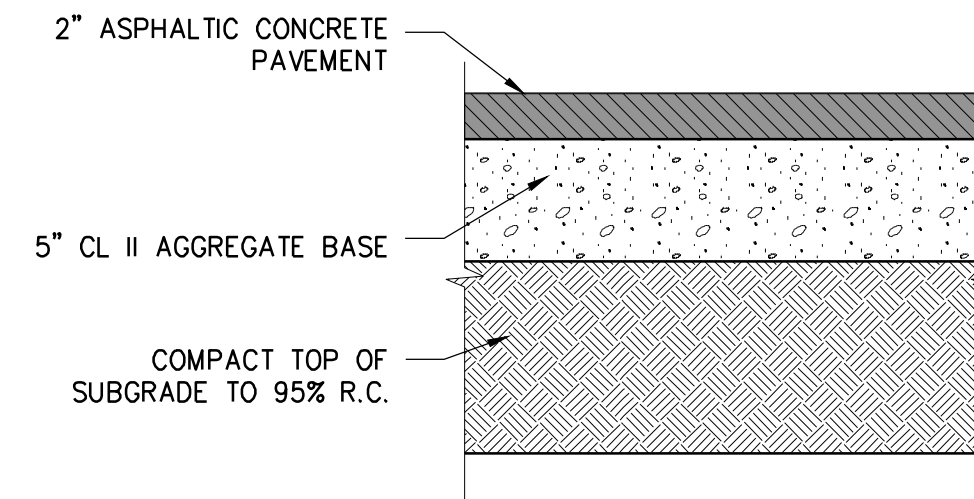


**NOTES**

1. DEPTH VARIES PER PLAN ELEVATIONS, FROM 2" MIN TO 6" MAX
2. COMPACT NATIVE OR IMPORTED SOIL TO NO MORE THAN 85% RELATIVE COMPACTION.

**E** NOT USED

SCALE: NTS

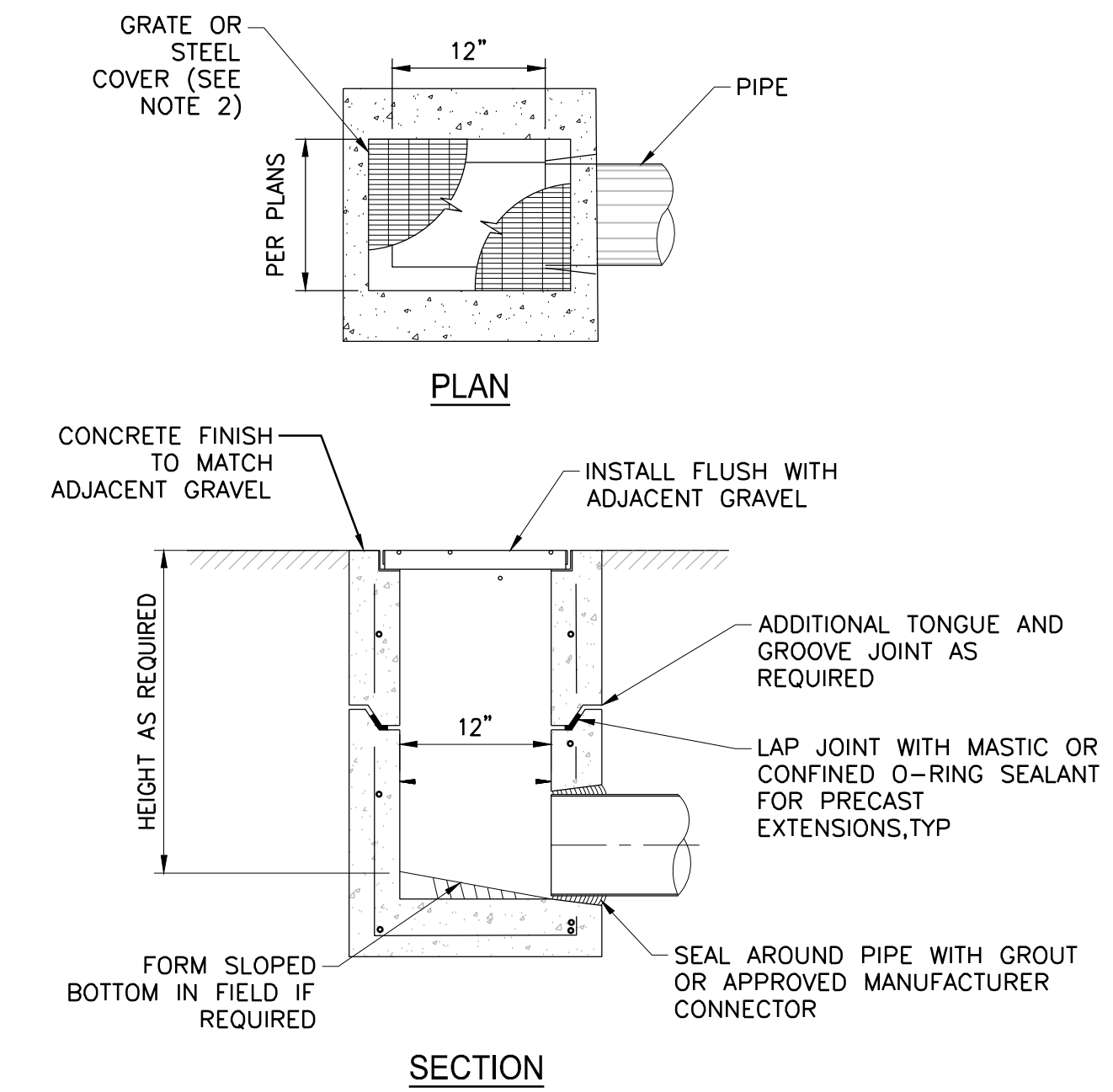


**NOTE**

1. WHERE TYPICAL ASPHALT SECTION INSTALL OVER ENCOUNTERED UNSUITABLE SOILS, MAY BE INSTALLED WITH A GEOGRID BETWEEN THE SUBGRADE AND SUBBASE AS PER GEOTECHNICAL REPORT.

**G** ASPHALT SECTION

SCALE: NTS



**NOTES**

1. CATCH BASIN/JUNCTION BOXES SHALL BE SQUARE UNLESS OTHERWISE NOTED.
2. CATCH BASINS SHALL BE FURNISHED WITH CAST IRON GRATE OR STEEL GRATE PER SPECIFICATION.
3. STAINLESS STEEL MATERIAL SAMPLES SHALL BE SENT TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL.

**H** CATCH BASIN

SCALE: NTS



SCALE: 1" = 20'

Note: If the graphic scale does not equal 1", this sheet has been modified from its original size.

NO	DATE	REVISION

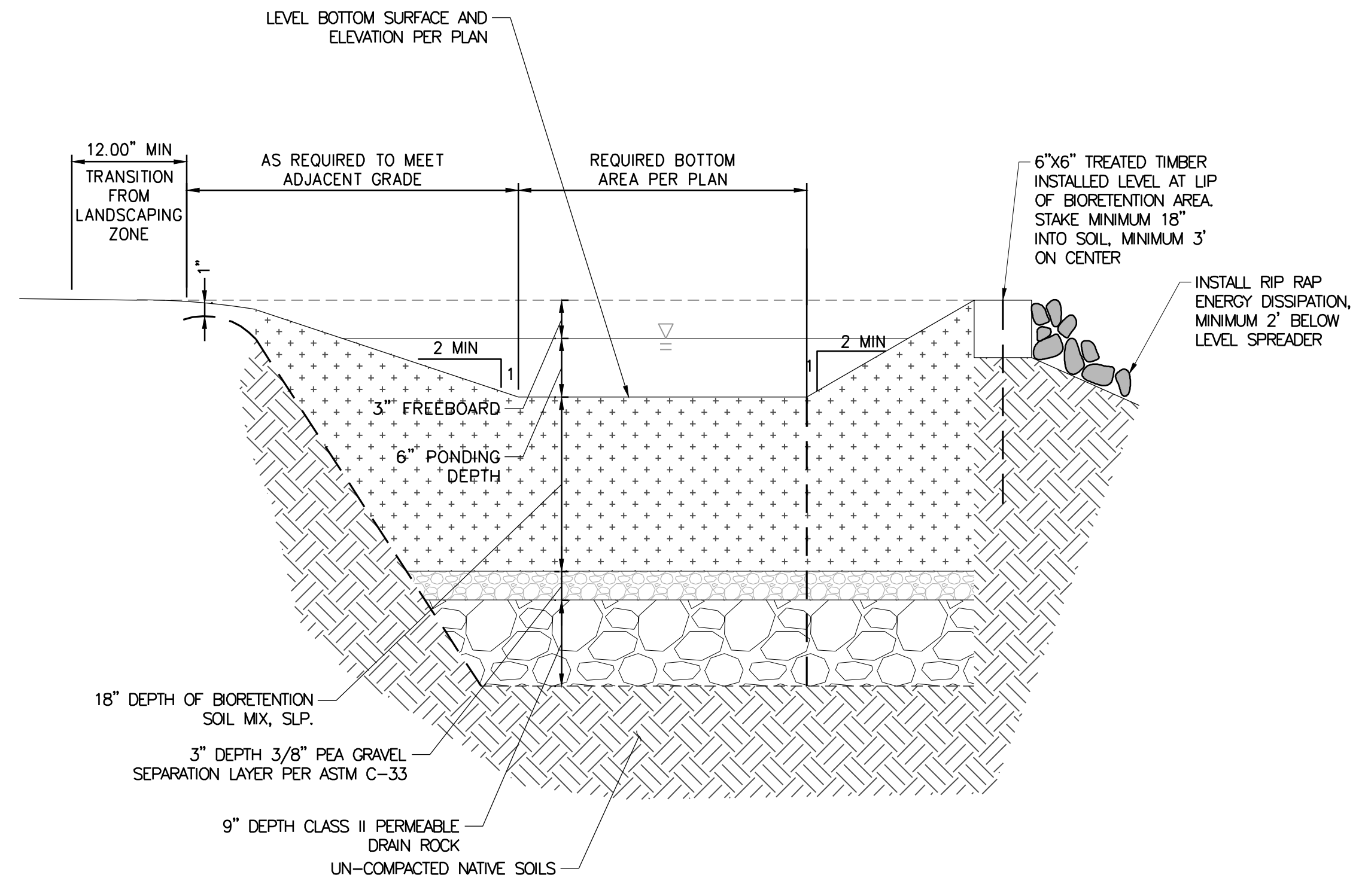
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PROJECT NO.	19-074
DATE	11/09/2020
DRAWN	CL
DESIGNED	CL
CHECKED	CA

KALLWEIT RESIDENCE  
OAKVILLE RIDGE  
NAPA, CALIFORNIA

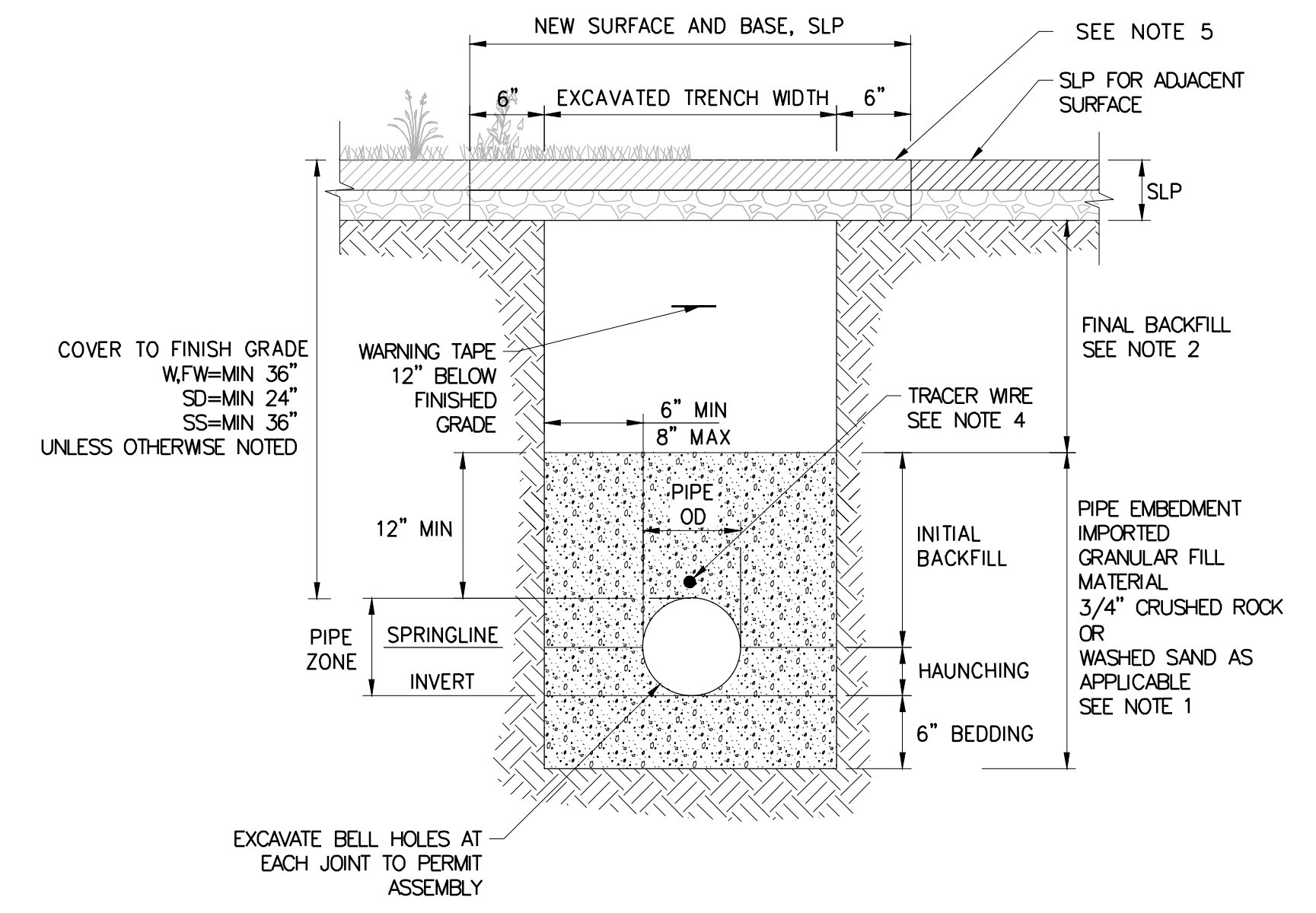
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**A** BIORETENTION AREA

SCALE: NTS



- NOTES**
- FOR WATER AND FIRE WATER USE WASHED SAND AND FOR STORM DRAIN AND SANITARY SEWER USE GRANULAR FILL MATERIAL. 3/4" CRUSHED ROCK FOR BEDDING, HAUNCHING AND INITIAL BACKFILL MATERIAL. SAND MATERIAL SHALL BE COMPACTED TO 90% PROCTOR DENSITY. REFER TO PROJECT SPECIFICATIONS ACCORDINGLY.
  - FINAL BACKFILL SHALL CONSIST OF EXCAVATED NATIVE SOIL WHERE SUITABLE FOR FILL, COMPACTED TO 90% PROCTOR DENSITY IN NON-TRAFFIC AREAS. IF EXCAVATED MATERIAL IS NOT SUITABLE, USE IMPORTED GRANULAR MATERIAL. 3/4" CRUSHED ROCK AS APPROVED BY GEOTECHNICAL ENGINEER.
  - BACKFILL SHALL BE PLACED IN LAYERS NOT TO EXCEED 8" MAXIMUM.
  - FOR WATER AND FIRE WATER MAINS INSTALL SINGLE STRAND 12" COPPER WIRE.
  - REMOVE A MINIMUM 6" OF PAVEMENT SURFACE BEYOND EDGE OF TRENCH WHEN INSTALLING UTILITY UNDER EXISTING SURFACE WHERE APPLICABLE PER PLAN.

**B** UTILITY TRENCH

SCALE: NTS



SCALE: 1" = 20'

Note: If the graphic scale does not equal 1", this sheet has been modified from its original size.

NO	DATE	REVISION

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PROJECT NO. 19-074

DATE 11/09/2020

DRAWN CL

DESIGNED CL

CHECKED CA

KALLWEIT RESIDENCE  
OAKVILLE RIDGE  
NAPA, CALIFORNIA





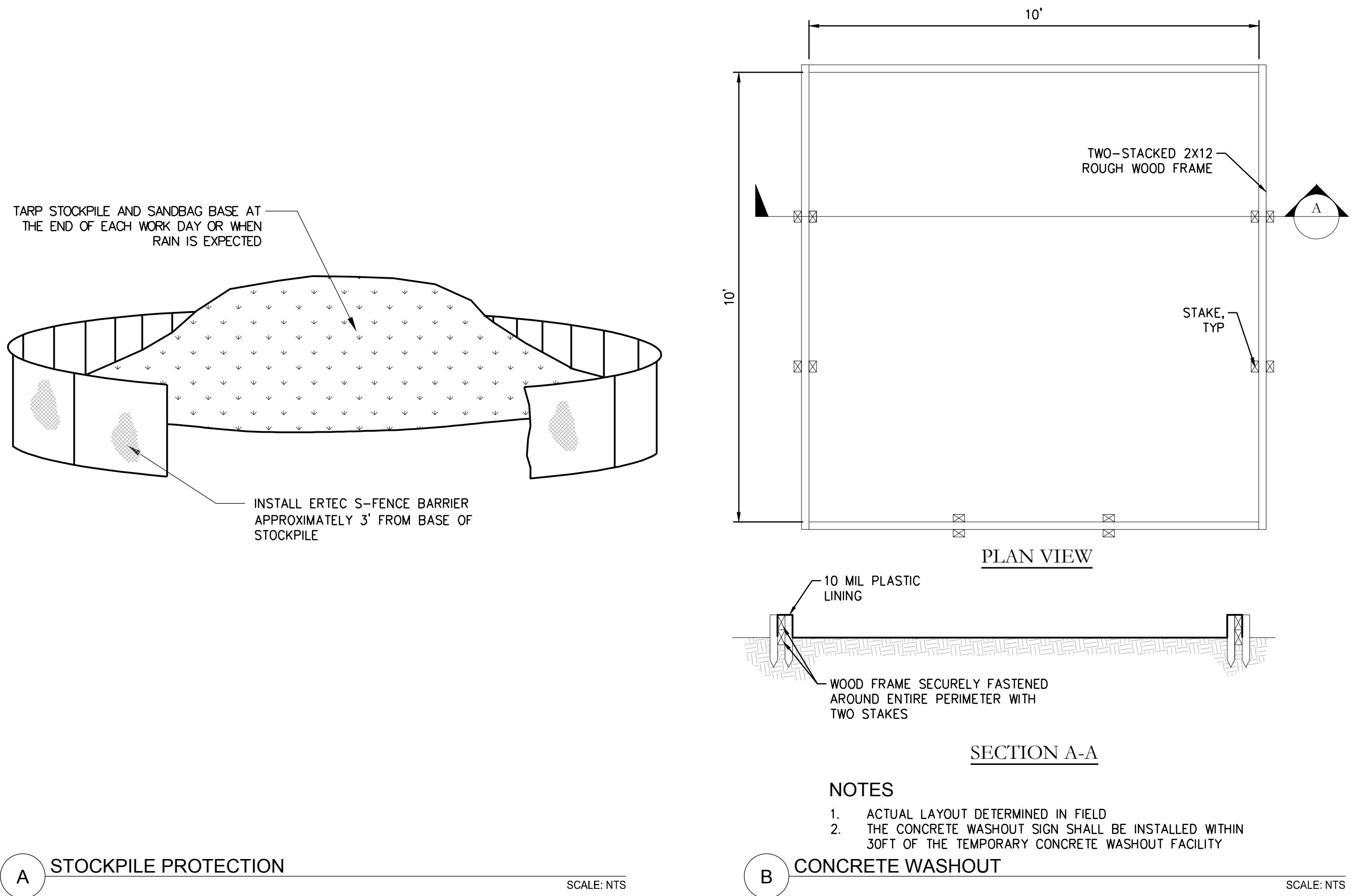
SCALE: 1" = 20'

Note: If this graphic scale does not equal 1", this sheet has been modified from its original size.

NO.	DATE	REVISION

PROJECT NO. 19-074  
DATE 11/09/2020  
DRAWN CL  
DESIGNED CL  
CHECKED CA

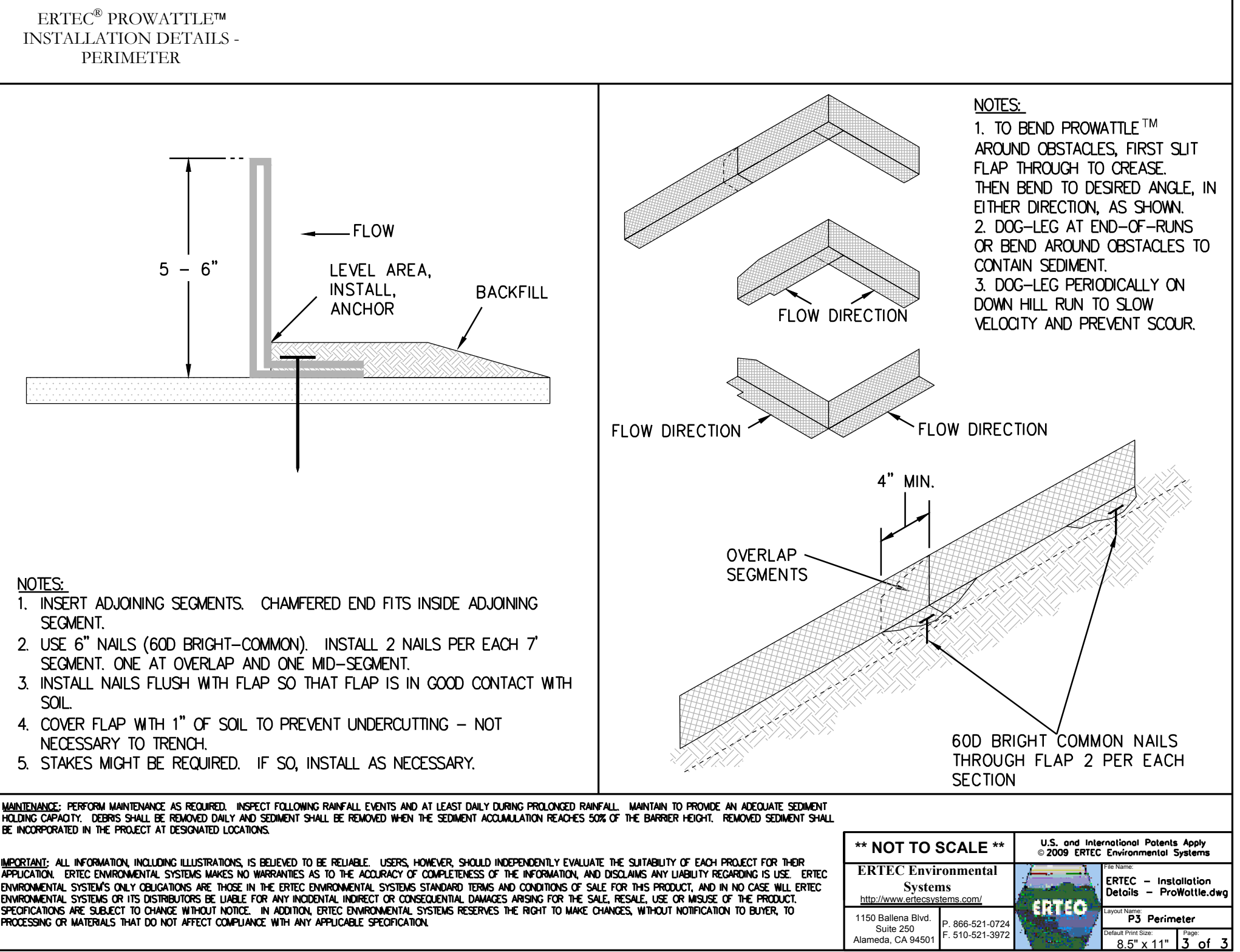
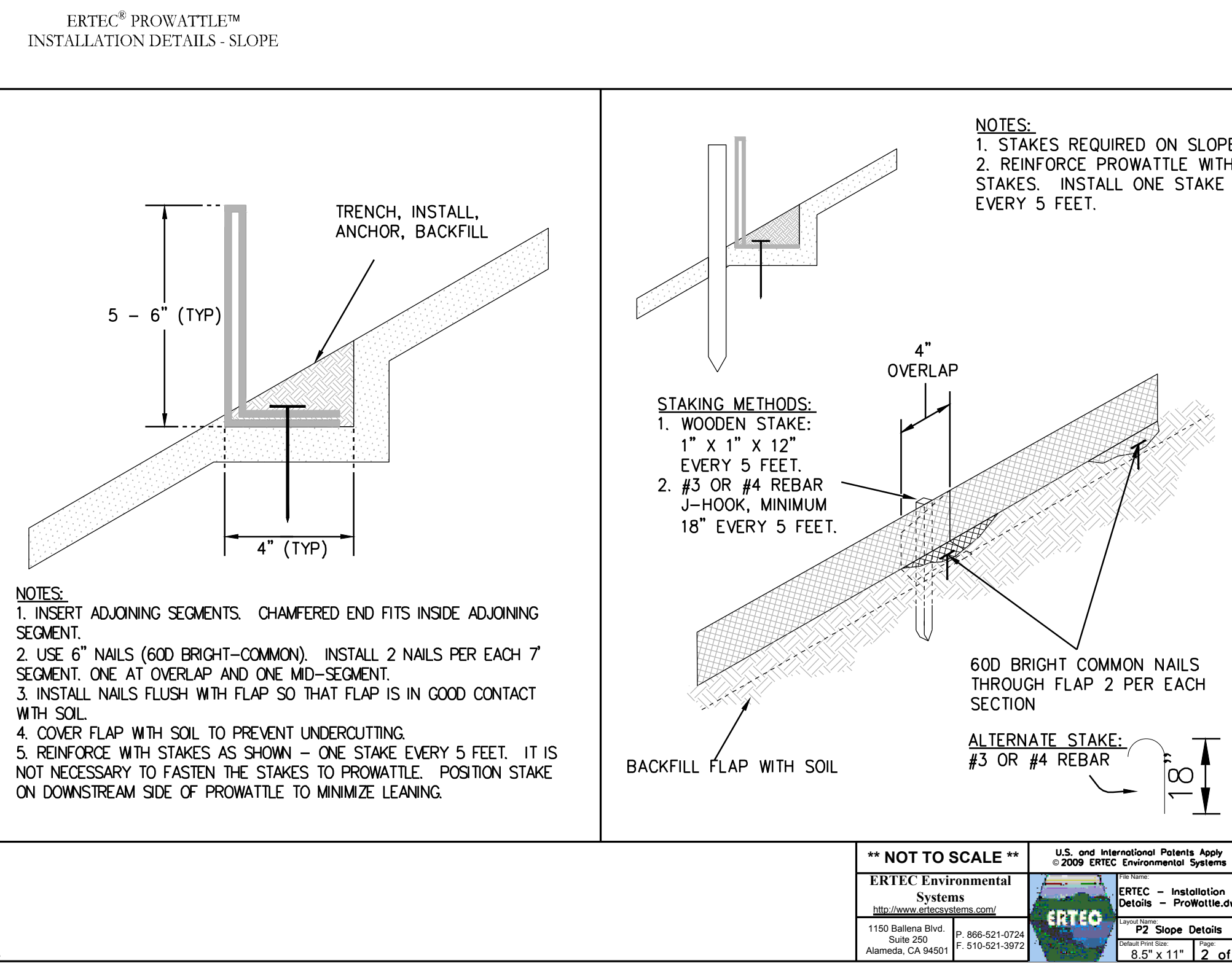
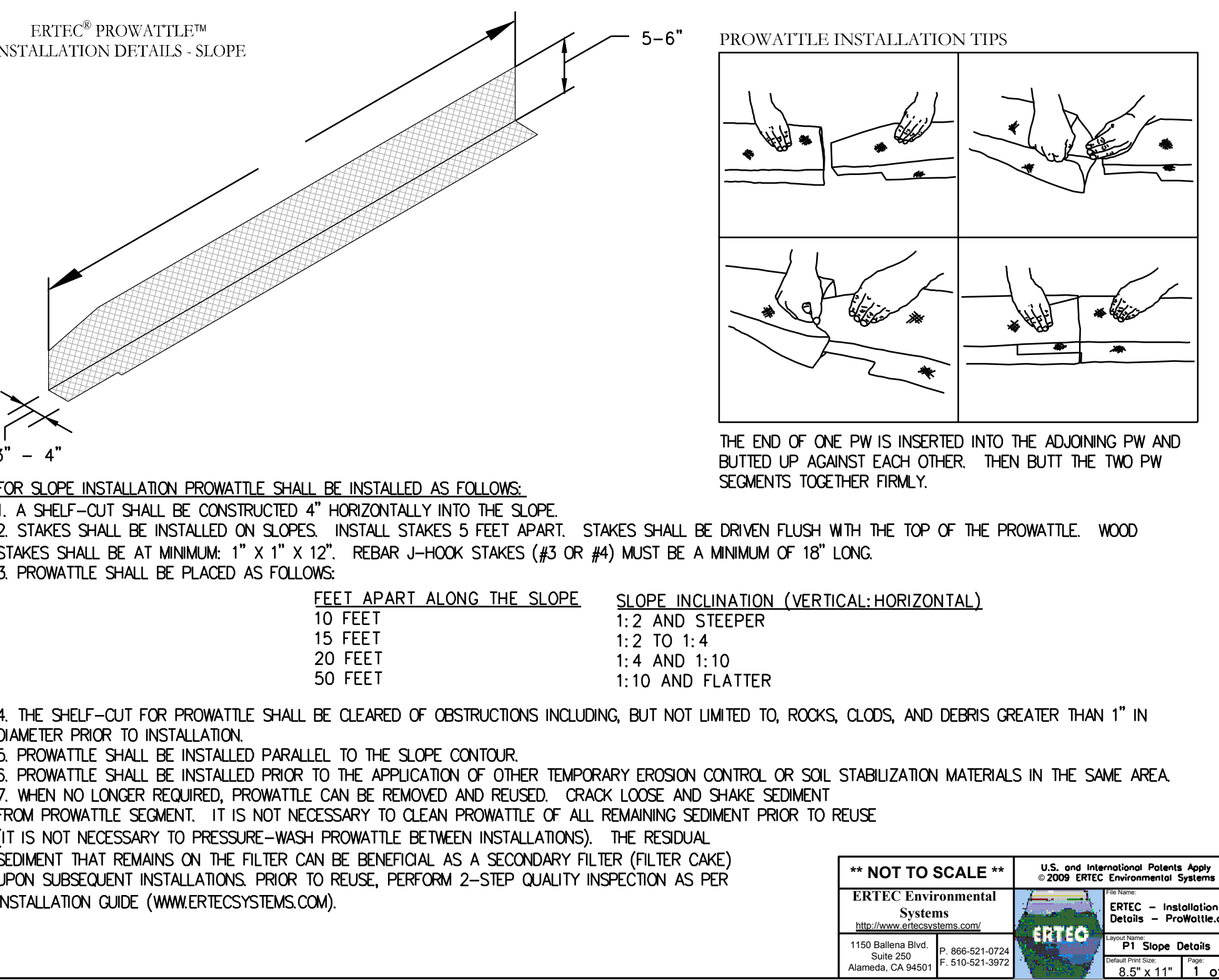
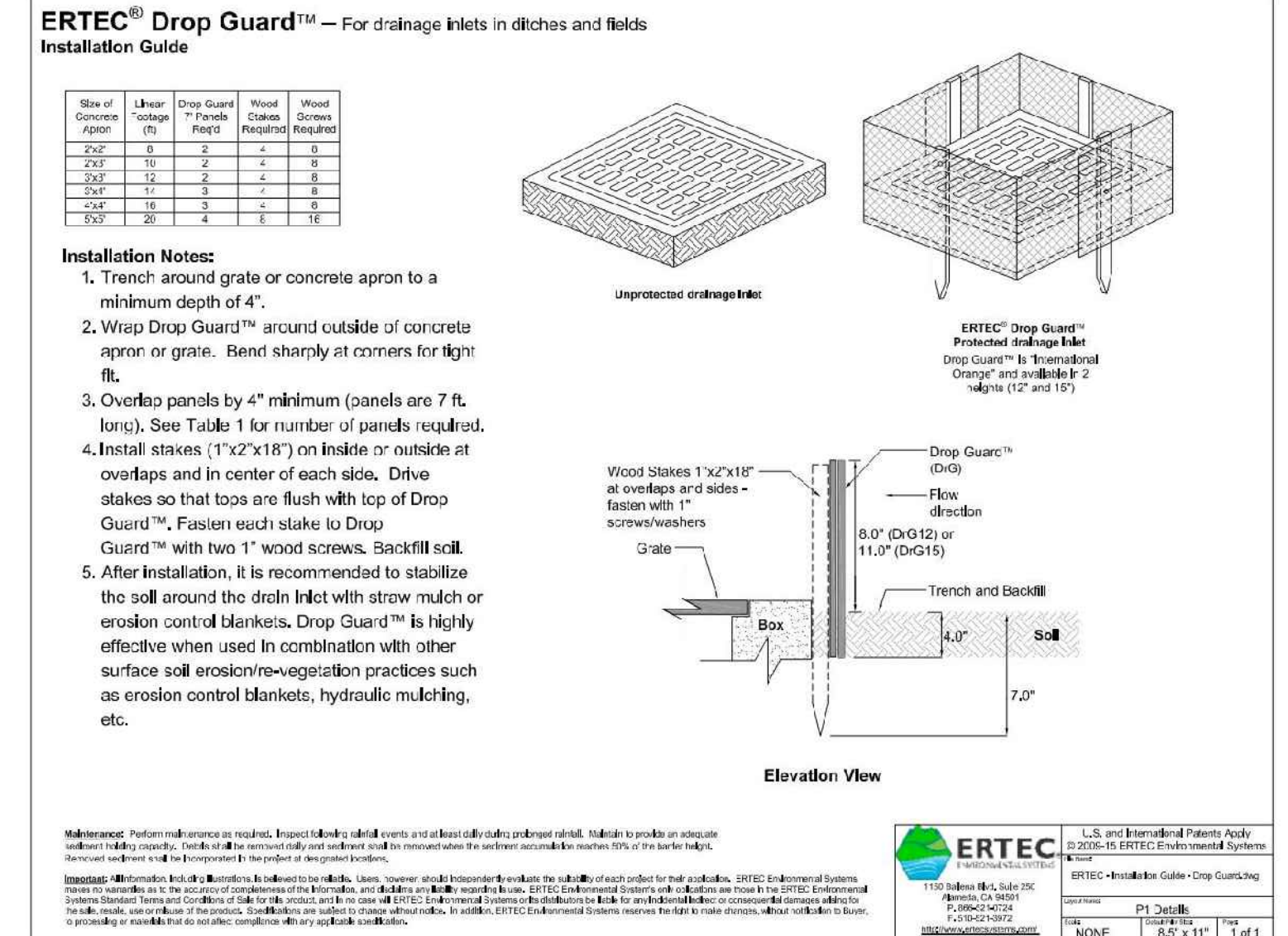
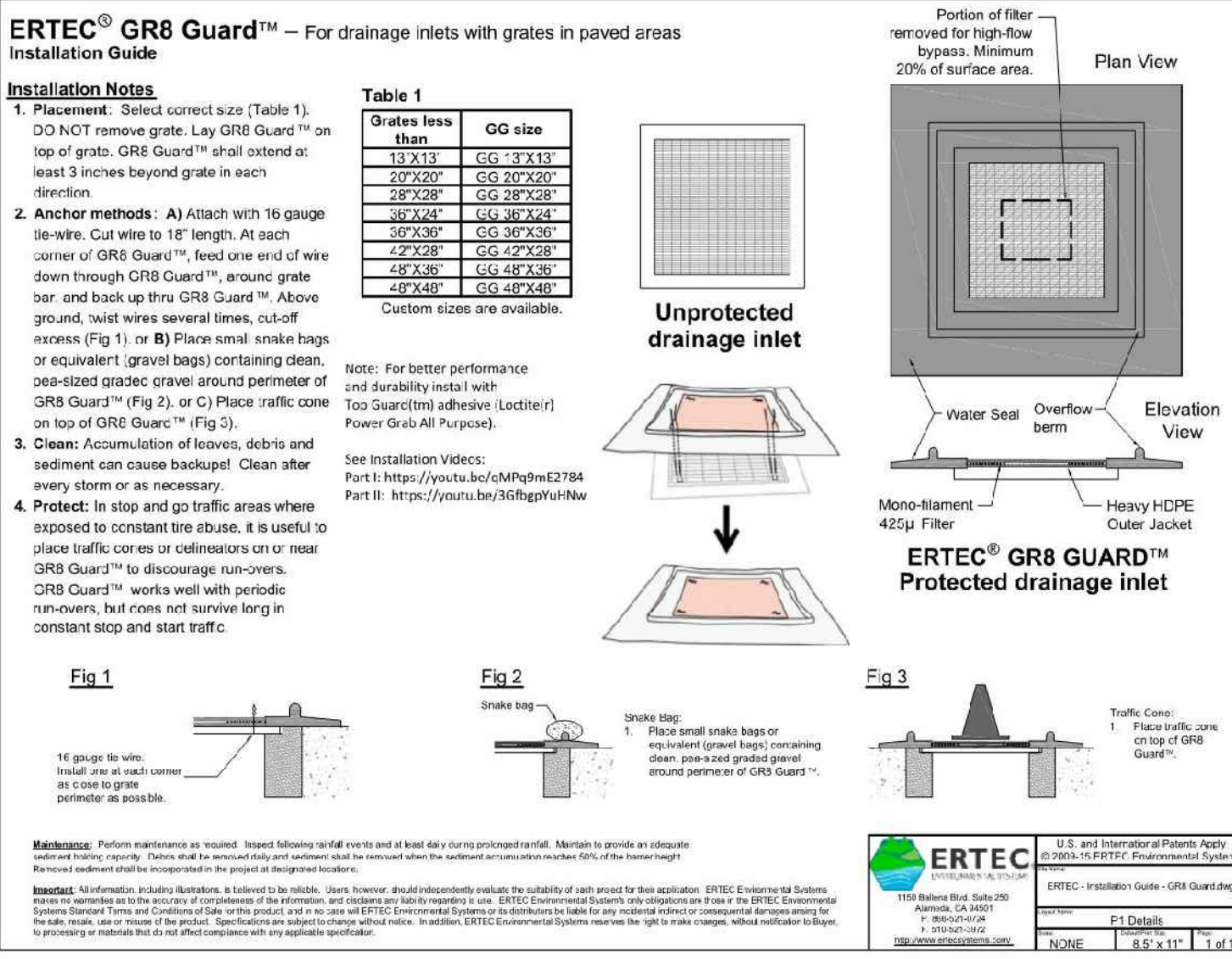
KALLWEIT RESIDENCE  
OAKVILLE RIDGE  
NAPA, CALIFORNIA



A STOCKPILE PROTECTION

B CONCRETE WASHOUT

C INLET PROTECTION (ERTEC OR EQUIVALENT)



C PROWATTLE (ERTEC OR EQUIVALENT)



# OAKVILLE RIDGE DRIVEWAY IMPROVEMENTS

## COUNTY OF NAPA, CALIFORNIA

### CIVIL SCOPE OF WORK

THE CIVIL SCOPE OF WORK INCLUDES: IMPROVEMENTS TO OAKVILLE RIDGE ROAD, A PRIVATE RESIDENTIAL DRIVEWAY IN NAPA COUNTY, INCLUDING CLEARING OF VEGETATION, IMPROVEMENTS TO SURFACING MATERIAL, AND CONSTRUCTION OF NEW TURNOUTS.

### APPLICABLE CODES AND STANDARDS

THE DESIGN SHOWN IN THESE DRAWINGS WAS BASED UPON THE FOLLOWING STANDARDS. IN THE EVENT OF CONFLICTING REQUIREMENTS, THE WORK SHALL FOLLOW THE MORE STRINGENT STANDARD OR THE ORDER LISTED BELOW.

- 2020 NAPA COUNTY ROAD & STREET STANDARDS

### SURVEY

- EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON SURVEY PREPARED BY ALBION SURVEYS, INC DATED JULY 2016 AND MAY 2019. GRADES ENCOUNTERED ON-SITE MAY VARY FROM THOSE SHOWN. CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS AND CONDUCT FIELD INVESTIGATIONS TO VERIFY EXISTING CONDITIONS AT THE PROJECT SITE.
- CONSTRUCTION STAKING SHALL BE PERFORMED BY A LAND SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA.

### GRADING NOTES

- ALL GRADING SHALL COMPLY WITH APPLICABLE PERMITS, LOCAL ORDINANCES AND RECOMMENDATIONS OF THE GEOTECHNICAL REPORT TO BE OBTAINED BY OWNER.
- SEDIMENT AND EROSION CONTROL MEASURES, AS SPECIFIED IN THE PROJECT PLANS AND DETAILS SHALL BE INSTALLED PRIOR TO START OF GRADING ACTIVITIES.
- WHEN GRADING ACTIVITIES COMMENCE MORE THAN 30 DAYS AFTER GRUBBING ACTIVITIES, THE AREA SHALL BE SEEDED WITH PLANT MATERIAL TO CONTROL EROSION. ROOT DEPTH OF SUCH PLANT MATERIAL NOT TO EXCEED 4 INCHES.
- ALL COMPACTION TESTS AND FINAL GRADING REPORT SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE PRIOR TO SCHEDULING INSPECTIONS.
- CUT AND/OR FILL SLOPES SHALL NOT EXCEED SLOPE RECOMMENDED BY GEOTECHNICAL ENGINEER.
- PROVIDE FINISHED GRADE AS SHOWN ON PLANS. MAINTAIN MIN. 3% SLOPE AWAY FROM BUILDING IN SOFTSCAPE OR 1.5% AWAY FROM BUILDING IN HARDSCAPE.
- PROVIDE MIN. SOIL COMPACTION OF 90% RELATIVE COMPACTION FOR FILLS BENEATH PROPOSED FLATWORK; 95% RELATIVE COMPACTION FOR FILLS BENEATH VEHICULAR PAVEMENT; AND 85% IN SOFTSCAPE OR LANDSCAPE AREAS, UNLESS OTHERWISE NOTED.

### UNAUTHORIZED CHANGE AND USE

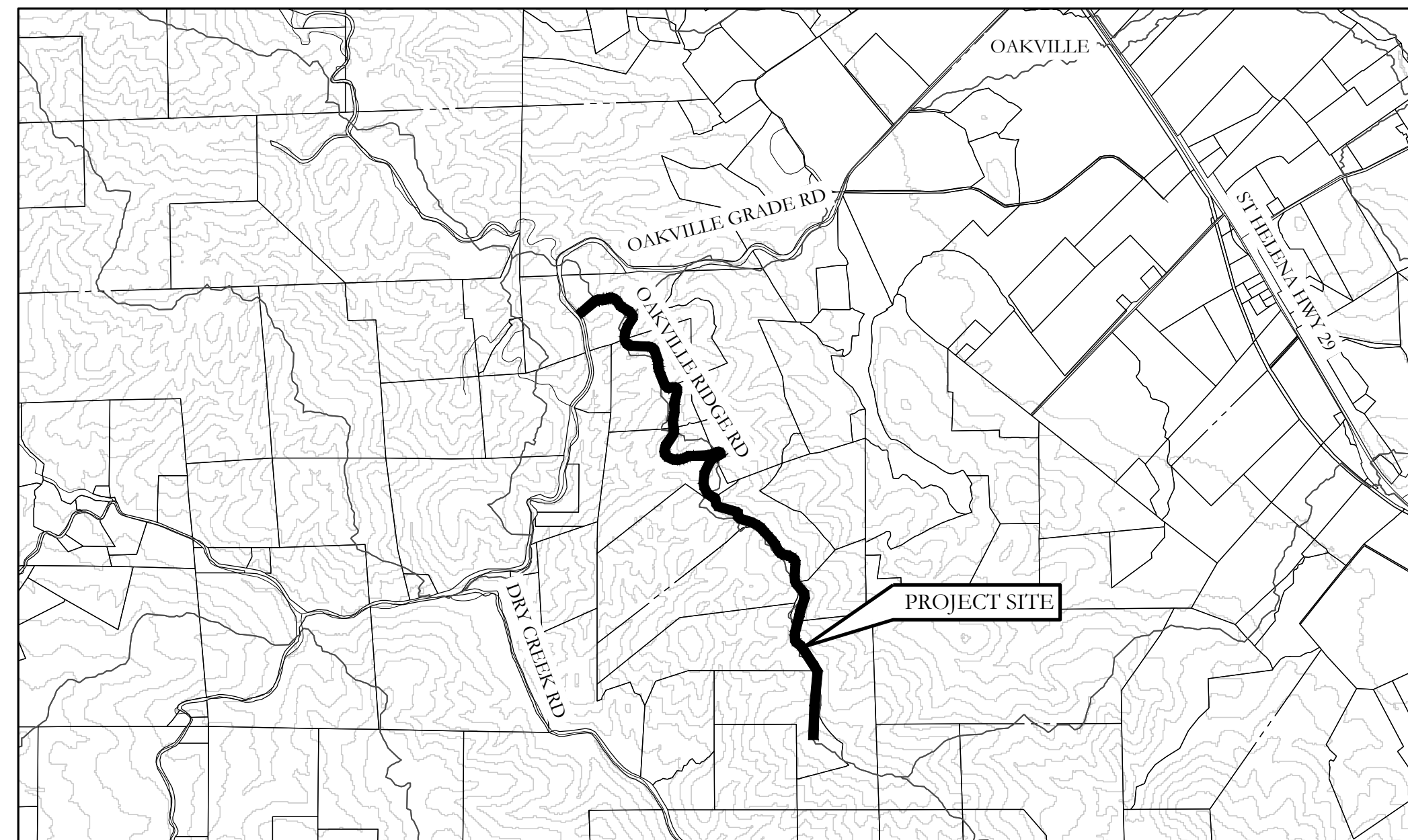
- SHERWOOD DESIGN ENGINEERS, LTD. SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, OR PROCEDURES UTILIZED BY THE CONTRACTOR, FOR THE SAFETY OF THE PUBLIC OR CONTRACTOR'S EMPLOYEES, OR FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUR THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CIVIL DESIGN ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS. ANY MODIFICATIONS TO THIS DOCUMENT, WITHOUT THE WRITTEN PERMISSION OF SHERWOOD DESIGN ENGINEERS, LTD., SHALL RENDER THE PLANS INVALID AND UNUSABLE.
- NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS ELECTRONIC, MECHANICAL, PHOTOCOPYING, RECORDING, OR OTHERWISE WITHOUT THE PRIOR WRITTEN PERMISSION OF SHERWOOD DESIGN ENGINEERS, LTD., EXCEPT THAT ANY REGULATORY AUTHORITY MAY REPRODUCE AND TRANSMIT COPIES, AS REQUIRED, IN CONJUNCTION WITH PERFORMANCE OF OFFICIAL BUSINESS UNDER ITS JURISDICTION.

### GENERAL

- REFER TO FIRST AMERICAN TITLE COMPANY OF NAPA ORDER NO. 00210404-CW FOR PROPERTY GRANT DEED AND PRELIMINARY TITLE REPORT.

### SHEET INDEX

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| C1.2 | ROAD ALIGNMENT           |
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| C2.6 | ROAD PLAN & PROFILE      |
| C3.0 | DETAILS                  |



VICINITY MAP  
SCALE: 1"=200'

### ABBREVIATIONS

AB	AGGREGATE BASE	(P)	PROPOSED
ABD	ABANDONED	PA	PLANTED AREA
AC	ASPHALT CONCRETE	PED	PEDESTRIAN
ACWS	ASPHALT CONCRETE WEARING SURFACE	PG&E	PACIFIC GAS & ELECTRIC
AD	AREA DRAIN	PIP	PROTECT IN PLACE
ADA	AMERICANS WITH DISABILITIES ACT	PIV	POST INDICATOR VALVE
BS	BOTTOM OF STEP	PL	PROPERTY LINE
BW	BOTTOM OF WALL / BACK OF WALK	POC	POINT OF CONNECTION
C&G	CURB & GUTTER	PRW	PRESSURIZED RAINWATER
CB	CATCH BASIN	PSI	POUNDS PER SQUARE INCH
CF	CUBIC FEET	PUE	PUBLIC UTILITY EASEMENT
CL	CENTERLINE	PVMT	PAVEMENT
CO	CLEAN OUT	R, RAD	RADIUS
CONC	CONCRETE	RC	RELATIVE COMPACTION
CS	CRAWL SPACE	RCP	REINFORCED CONCRETE PIPE
DEMO	DEMOLISH	REO'D	REQUIRED
DI	DRAINAGE INLET	RET	RETAINING
DS	DOWN SPOUT	RIM	TOP OF STRUCTURE GRATE/ COVER
DW	DOMESTIC WATER	RW	RAINWATER
E	EAST	RWL	RAINWATER LEADER
(E)	EXISTING	S	SLOPE
EB	ELECTRICAL BOX	SAP	SEE ARCHITECTURAL PLANS
EC	END CURVE	SCO	SOFTSCAPE CLEANOUT
EL, ELEV	ELEVATION	SD	STORM DRAIN
ELEC	ELECTRIC	SDE	SHERWOOD DESIGN ENGINEERS
EP	EDGE OF PAVEMENT	SDMH	STORM DRAIN MANHOLE
EVA	EMERGENCY VEHICLE ACCESS	SEP	SEE ELECTRICAL PLANS
FC	FACE OF CURB	SF	SQUARE FEET
FFE	FINISHED FLOOR ELEVATION	SLP	SEE LANDSCAPE PLANS
FG	FINISH GRADE	SMP	SEE MECHANICAL PLANS
FH	FIRE HYDRANT	SPD	SEE PLUMBING DRAWINGS
FL	FLOWLINE	SPRK	FW SPRINKLER LINE
FS	FINISH SURFACE	SQ	SQUARE
FT	FEET	SS	SANITARY SEWER
FW	FIRE WATER	SSCO	SANITARY SEWER CLEAN OUT
G	GAS	SSMH	SANITARY SEWER MANHOLE
GB	GRADE BREAK	SSP	SEE STRUCTURAL PLANS
GM	GAS METER	STD	STANDARD
GV	GATE VALVE	STM	STEAM
GW	GRAY WATER	SW	SIDEWALK
HB	HOSEBIB	TB	TOP OF BANK
HDPE	HIGH-DENSITY POLYETHYLENE	TBD	TO BE DETERMINED
HP	HIGH POINT/ HINGE POINT	TBM	TEMPORARY BENCHMARK
HT	HEIGHT	TBR	TO BE REMOVED
HV	HIGH VOLTAGE	TC	TOP OF CURB
INV	INVERT OF PIPE OR CHANNEL	TD	TRENCH DRAIN
IRR	IRRIGATION	TEL	TELEPHONE
JB	JUNCTION BOX	TEMP	TEMPORARY
JP	JOINT POLE	TG	TOP OF GRATE
LA	LANDSCAPE ARCHITECT	TS	TOP OF STEP
LF	LINEAR FEET	TW	TOP OF WALL
LG	LIP OF GUTTER	TYP	TYPICAL
LP	LIGHT POLE/ LOW POINT	UG	UNDERGROUND
LT	LEFT	U.O.N.	UNLESS OTHERWISE NOTED
MAX	MAXIMUM	VERT	VERTICAL
MH	MANHOLE	VIF	VERIFY IN FIELD
MIN	MINIMUM	W	WATER
N	NORTH	WALK	WALKWAY/SIDEWALK
NFC	NOT FOR CONSTRUCTION	WM	WATER METER
NIC	NOT IN CONTRACT	WS	WATER SURFACE
NTS	NOT TO SCALE		
OC	ON CENTER		

APPROVED BY ENGINEERING MANAGER  
SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED BY NAPA COUNTY FIRE MARSHAL  
SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**Underground Service Alert**  
Call: TOLL FREE 1-800-227-2600  
TWO WORKING DAYS BEFORE YOU DIG

PRELIMINARY NOT FOR CONSTRUCTION

OAKVILLE RIDGE RESIDENCE DRIVEWAY IMPROVEMENTS  
PARCEL 027-340-024 OAKVILLE RIDGE ROAD  
COUNTY OF NAPA, CA

REVISIONS		
NO.	DATE	ISSUE

DRAWING TITLE:  
COVER SHEET

PROJECT #: 19-074  
DATE: 8/02/19  
DWN BY: CL  
DGN BY: CL  
CHKD BY: CA  
DRAWING NO:

C0.0



SCALE:  
As Shown (Horizontal) and 20' = 1" (Vertical) unless noted otherwise.

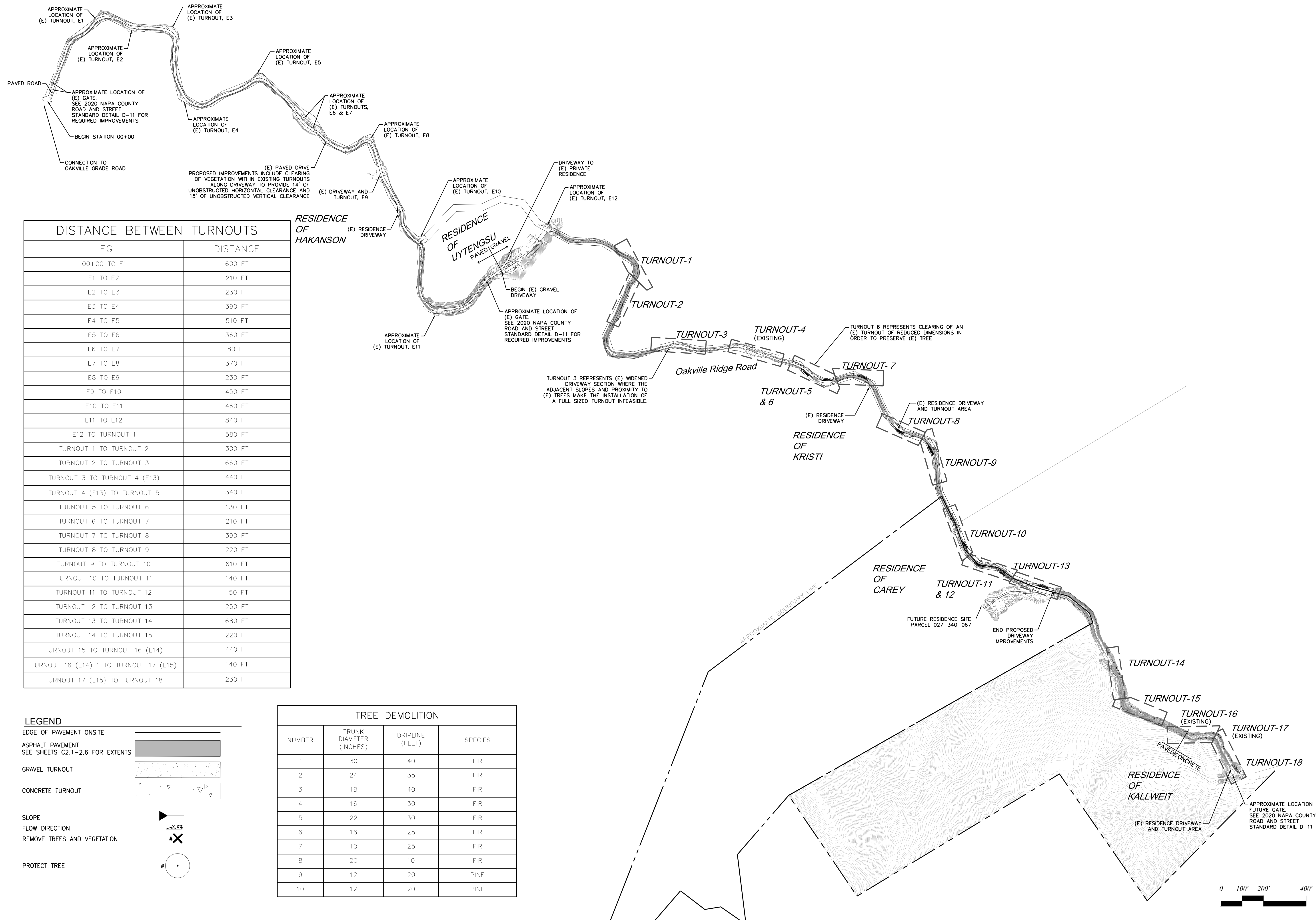
REVISIONS		
NO.	DATE	ISSUE

DRAWING TITLE:  
**ROAD ALIGNMENT - OVERALL**

PROJECT #: 19-074  
DATE: 8/02/19  
DWN BY: CL  
DGN BY: CL  
CHKD BY: CA  
DRAWING NO:

**C1.0**

PRELIMINARY NOT FOR CONSTRUCTION



DISTANCE BETWEEN TURNOUTS	
LEG	DISTANCE
00+00 TO E1	600 FT
E1 TO E2	210 FT
E2 TO E3	230 FT
E3 TO E4	390 FT
E4 TO E5	510 FT
E5 TO E6	360 FT
E6 TO E7	80 FT
E7 TO E8	370 FT
E8 TO E9	230 FT
E9 TO E10	450 FT
E10 TO E11	460 FT
E11 TO E12	840 FT
E12 TO TURNOUT 1	580 FT
TURNOUT 1 TO TURNOUT 2	300 FT
TURNOUT 2 TO TURNOUT 3	660 FT
TURNOUT 3 TO TURNOUT 4 (E13)	440 FT
TURNOUT 4 (E13) TO TURNOUT 5	340 FT
TURNOUT 5 TO TURNOUT 6	130 FT
TURNOUT 6 TO TURNOUT 7	210 FT
TURNOUT 7 TO TURNOUT 8	390 FT
TURNOUT 8 TO TURNOUT 9	220 FT
TURNOUT 9 TO TURNOUT 10	610 FT
TURNOUT 10 TO TURNOUT 11	140 FT
TURNOUT 11 TO TURNOUT 12	150 FT
TURNOUT 12 TO TURNOUT 13	250 FT
TURNOUT 13 TO TURNOUT 14	680 FT
TURNOUT 14 TO TURNOUT 15	220 FT
TURNOUT 15 TO TURNOUT 16 (E14)	440 FT
TURNOUT 16 (E14) 1 TO TURNOUT 17 (E15)	140 FT
TURNOUT 17 (E15) TO TURNOUT 18	230 FT

TREE DEMOLITION			
NUMBER	TRUNK DIAMETER (INCHES)	DRIPLINE (FEET)	SPECIES
1	30	40	FIR
2	24	35	FIR
3	18	40	FIR
4	16	30	FIR
5	22	30	FIR
6	16	25	FIR
7	10	25	FIR
8	20	10	FIR
9	12	20	PINE
10	12	20	PINE

**LEGEND**

EDGE OF PAVEMENT ONSITE

ASPHALT PAVEMENT  
SEE SHEETS C2.1-2.6 FOR EXTENTS

GRAVEL TURNOUT

CONCRETE TURNOUT

SLOPE

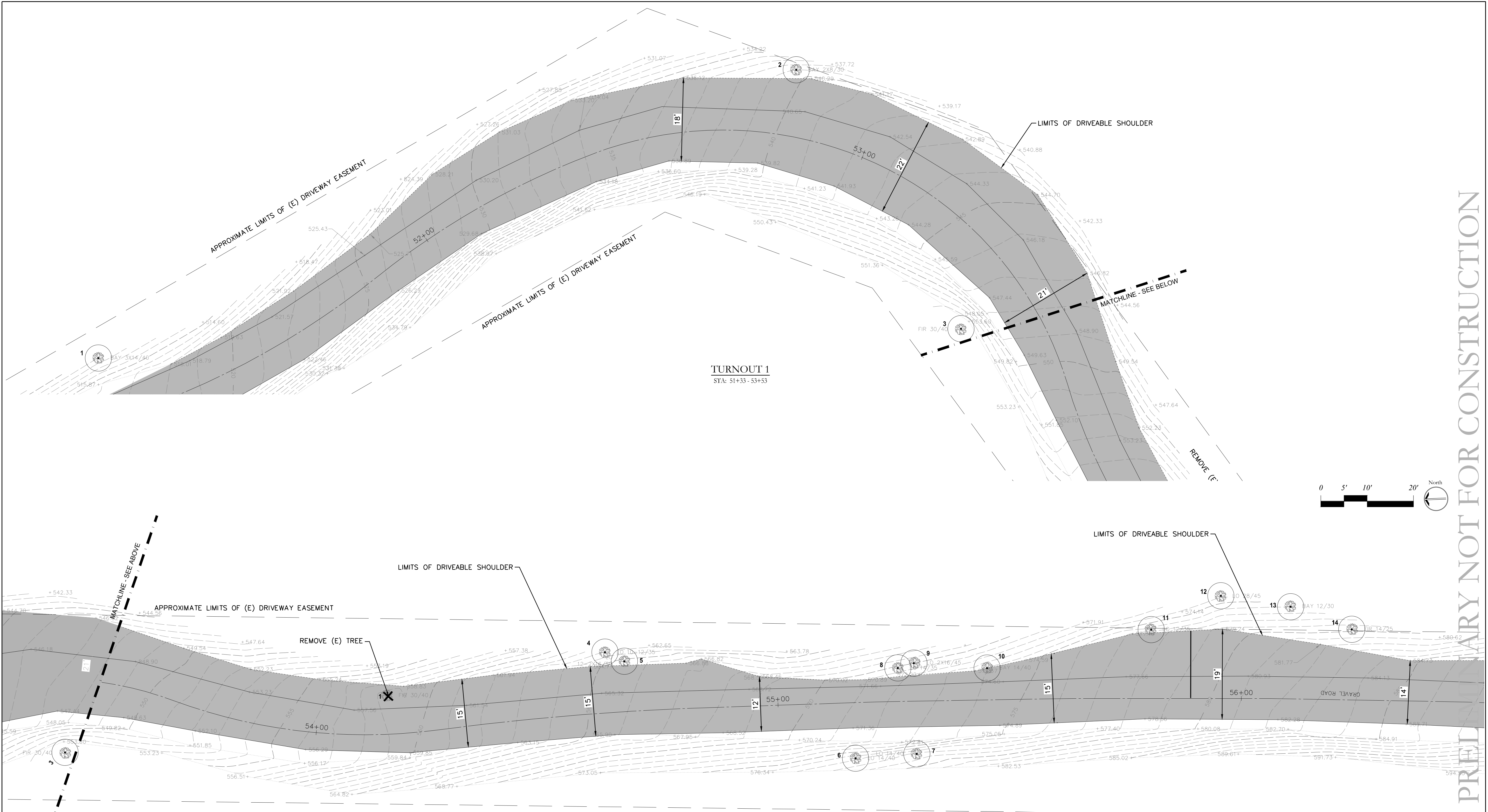
FLOW DIRECTION

REMOVE TREES AND VEGETATION

PROTECT TREE





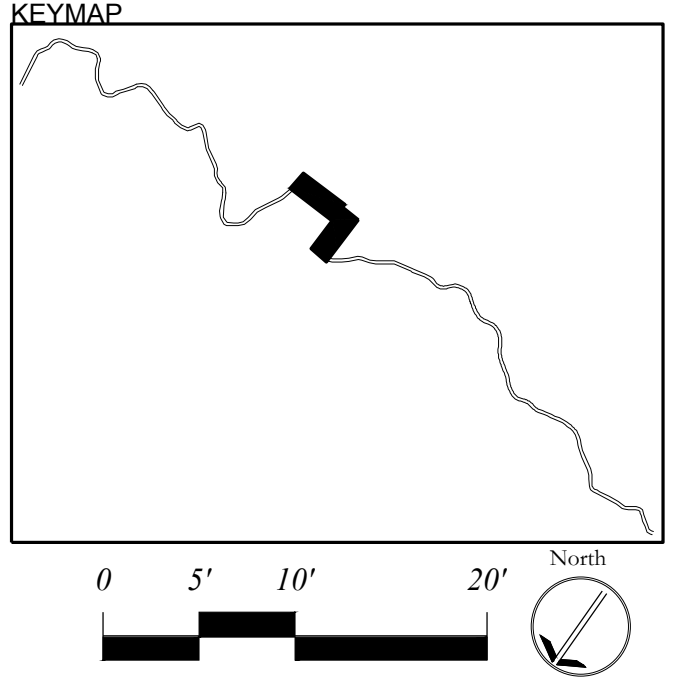


**TURNOUT 1**  
STA: 51+33 - 53+53

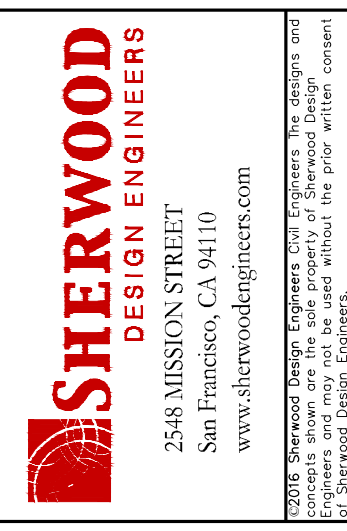
**TURNOUT 2**  
STA: 53+53 - 56+54

TREE PROTECTION			
NUMBER	TRUNK DIAMETER (INCHES)	DRIPLINE (FEET)	SPECIES
1	14	40	BAY
2	8	39	BAY
3	30	40	FIR

TREE PROTECTION			
NUMBER	TRUNK DIAMETER (INCHES)	DRIPLINE (FEET)	SPECIES
4	16	50	LIVE OAK
5	10-12	35	LIVE OAK
6	14	40	LIVE OAK
7	14	40	LIVE OAK
8	14	35	LIVE OAK
9	16	45	LIVE OAK
10	14	40	BAY
11	12	35	LIVE OAK
12	28	45	LIVE OAK
13	12	30	BAY
14	14	25	FIR



PRELIMINARY NOT FOR CONSTRUCTION



**OAKVILLE RIDGE RESIDENCE DRIVEWAY IMPROVEMENTS**  
PARCEL 027-340-024 OAKVILLE RIDGE ROAD  
COUNTY OF NAPA, CA

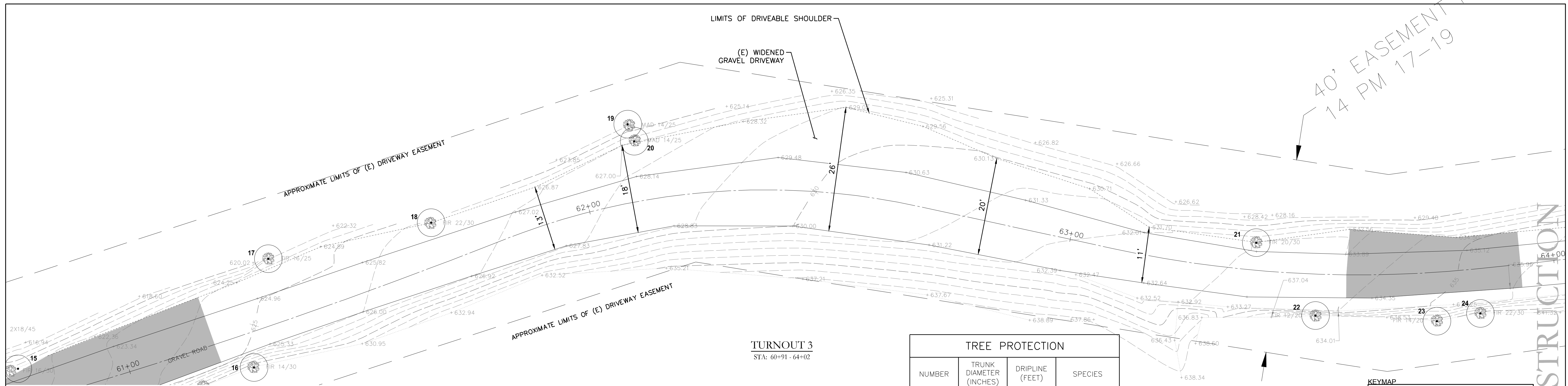
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REVISIONS		
NO.	DATE	ISSUE

DRAWING TITLE:  
**ROAD ALIGNMENT**

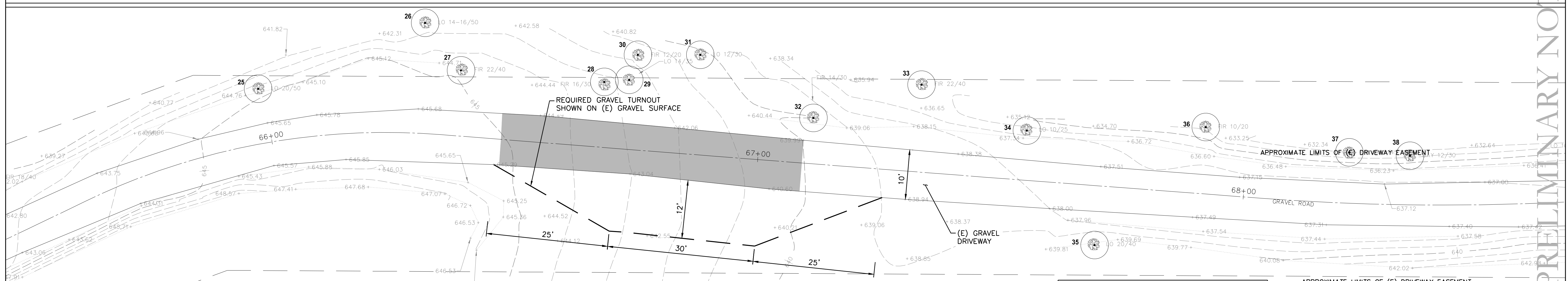
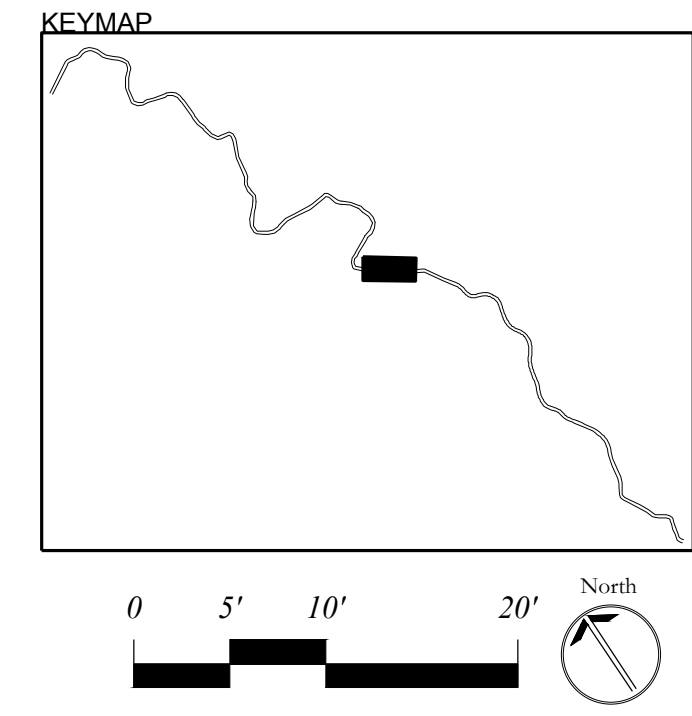
PROJECT #: 19-074  
DATE: 8/02/19  
DWN BY: CL  
DGN BY: CL  
CHKD BY: CA  
DRAWING NO.: **C1.1**





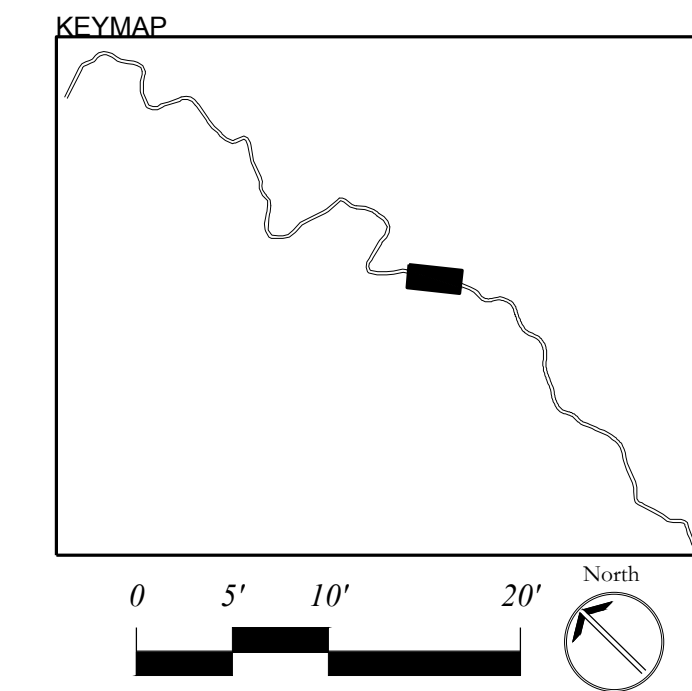
**TURNOUT 3**  
STA: 60+91 - 64+02

TREE PROTECTION			
NUMBER	TRUNK DIAMETER (INCHES)	DRIPLINE (FEET)	SPECIES
15	16	30	FIR
16	14	30	FIR
17	16	25	FIR
18	22	30	FIR
19	14	25	MADRONE
20	14	25	MADRONE
21	20	30	FIR
22	12	20	FIR
23	14	20	FIR
24	22	30	FIR



**TURNOUT 4 (E13)**  
STA: 65+41 - 68+66

TREE PROTECTION			
NUMBER	TRUNK DIAMETER (INCHES)	DRIPLINE (FEET)	SPECIES
25	20	50	LIVE OAK
26	14-16	50	LIVE OAK
27	22	40	FIR
28	16	30	FIR
29	14	35	LIVE OAK
30	12	20	FIR
31	12	30	LIVE OAK
32	14	30	FIR
33	22	40	FIR
34	10	25	FIR
35	20	40	LIVE OAK
36	10	20	FIR
37	12	45	LIVE OAK
38	12	30	BAY

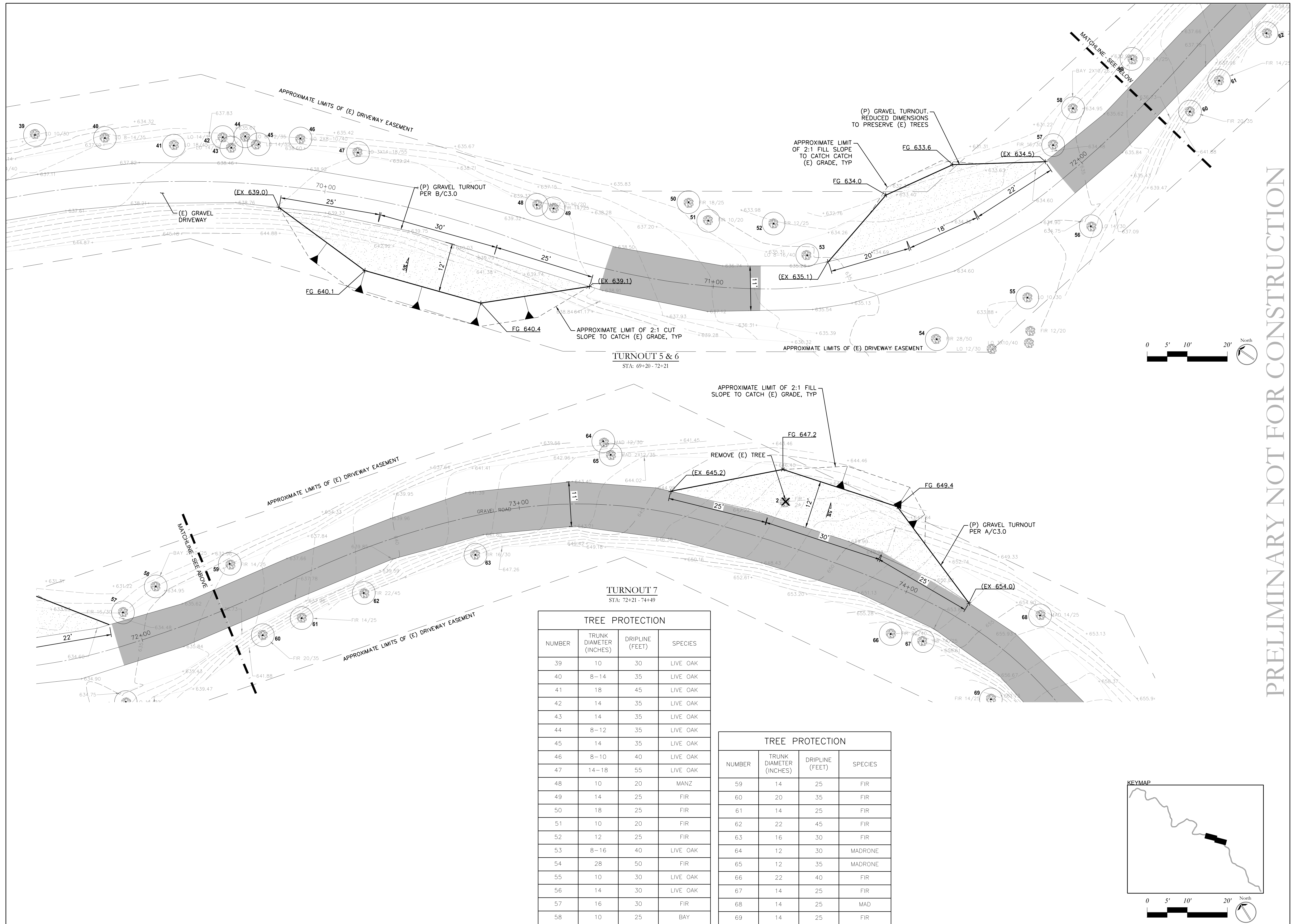


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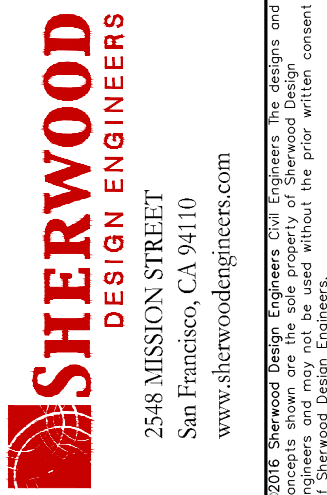
REVISIONS		
NO.	DATE	ISSUE

PRELIMINARY NOT FOR CONSTRUCTION





PRELIMINARY NOT FOR CONSTRUCTION



OAKVILLE RIDGE RESIDENCE  
DRIVEWAY IMPROVEMENTS  
PARCEL 027-340-024 OAKVILLE RIDGE ROAD  
COUNTY OF NAPA, CA

SCALE:  
Horizontal: 1" = 20'-0" (unless noted)  
Vertical: 1" = 10'-0" (unless noted)

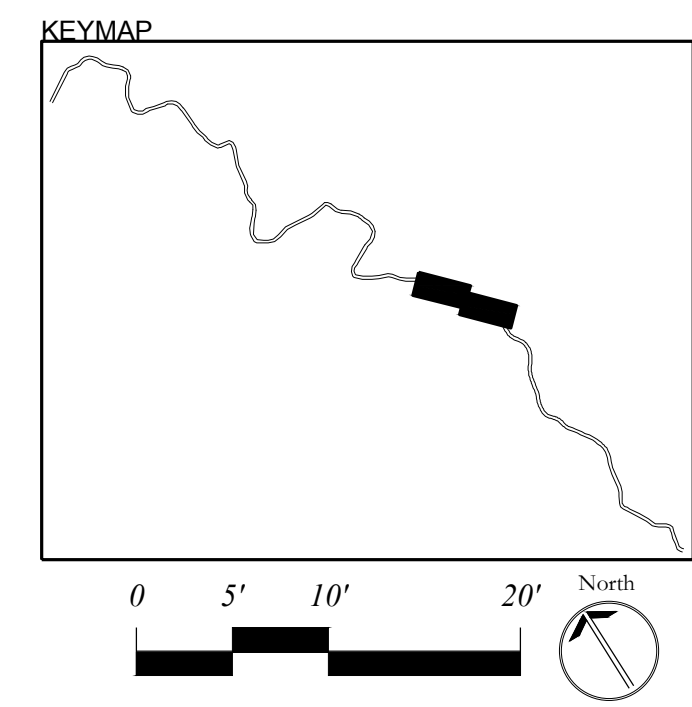
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NO.	DATE	ISSUE

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**ROAD ALIGNMENT**

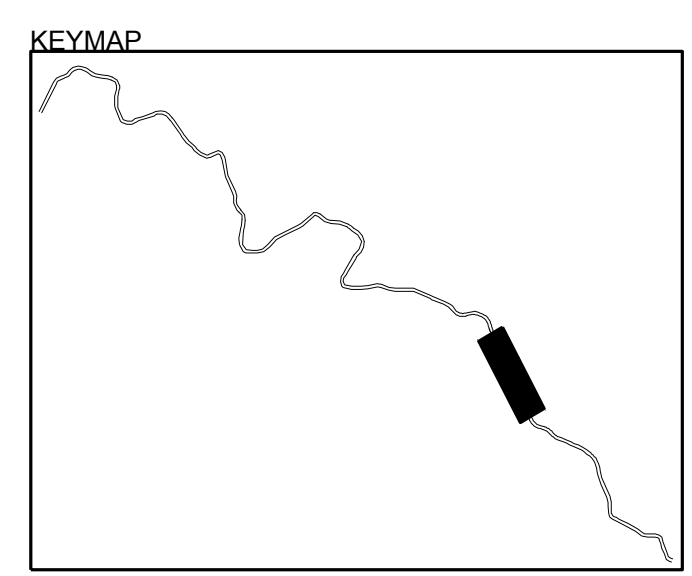
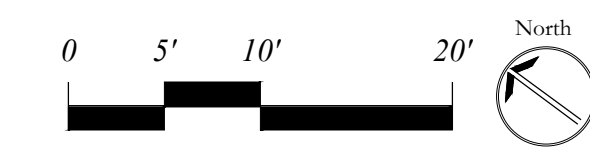
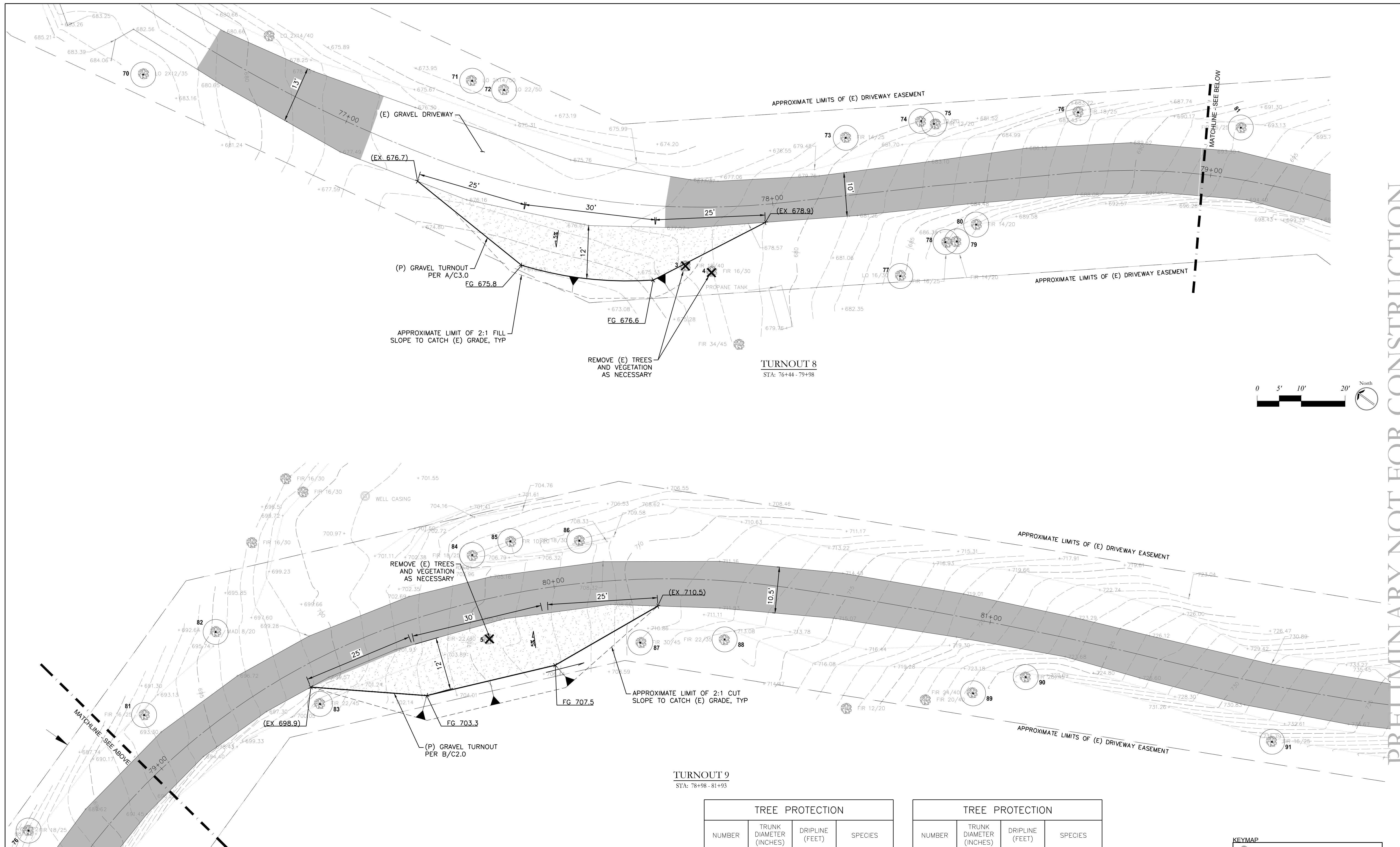
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DATE: 8/02/19  
DWN BY: CL  
DGN BY: CL  
CHKD BY: CA  
DRAWING NO:  
**C1.3**

TREE PROTECTION			
NUMBER	TRUNK DIAMETER (INCHES)	DRIPLINE (FEET)	SPECIES
39	10	30	LIVE OAK
40	8-14	35	LIVE OAK
41	18	45	LIVE OAK
42	14	35	LIVE OAK
43	14	35	LIVE OAK
44	8-12	35	LIVE OAK
45	14	35	LIVE OAK
46	8-10	40	LIVE OAK
47	14-18	55	LIVE OAK
48	10	20	MANZ
49	14	25	FIR
50	18	25	FIR
51	10	20	FIR
52	12	25	FIR
53	8-16	40	LIVE OAK
54	28	50	FIR
55	10	30	LIVE OAK
56	14	30	LIVE OAK
57	16	30	FIR
58	10	25	BAY

TREE PROTECTION			
NUMBER	TRUNK DIAMETER (INCHES)	DRIPLINE (FEET)	SPECIES
59	14	25	FIR
60	20	35	FIR
61	14	25	FIR
62	22	45	FIR
63	16	30	FIR
64	12	30	MADRONE
65	12	35	MADRONE
66	22	40	FIR
67	14	25	FIR
68	14	25	MAD
69	14	25	FIR







PRELIMINARY NOT FOR CONSTRUCTION

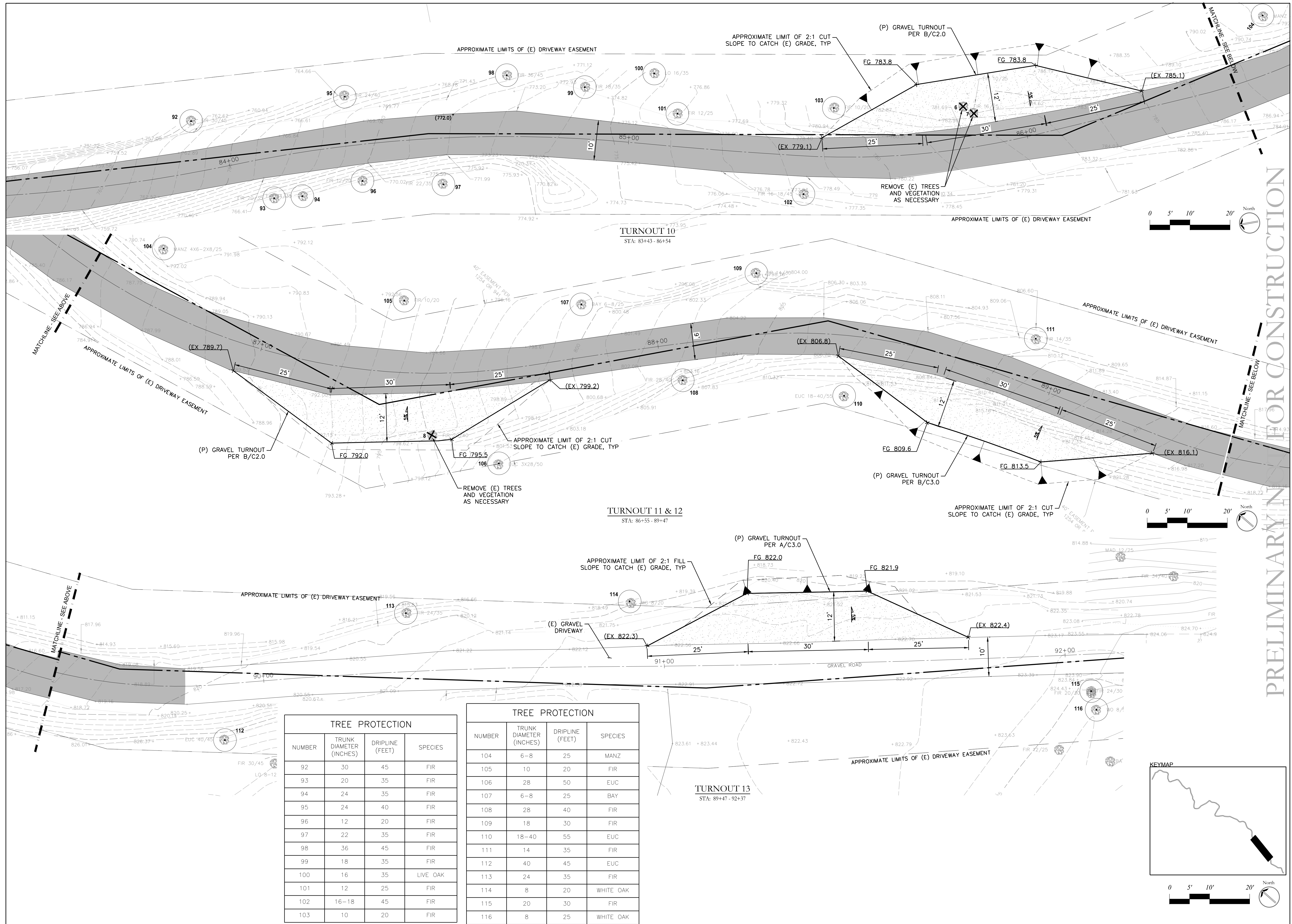
TREE PROTECTION			
NUMBER	TRUNK DIAMETER (INCHES)	DRIPLINE (FEET)	SPECIES
70	12	35	LIVE OAK
71	14	50	LIVE OAK
72	22	50	LIVE OAK
73	14	25	FIR
74	12	20	FIR
75	12	20	FIR
76	18	25	FIR
77	16	30	LIVE OAK
78	16	25	FIR
79	14	20	FIR
80	14	20	FIR

TREE PROTECTION			
NUMBER	TRUNK DIAMETER (INCHES)	DRIPLINE (FEET)	SPECIES
81	16	25	FIR
82	8	20	MADRONE
83	22	45	FIR
84	18	25	FIR
85	18	30	FIR
86	10	20	FIR
87	30	45	FIR
88	22	35	FIR
89	20	40	FIR
90	28	45	FIR
91	16	25	FIR

SCALE: 1"=20'-0"

REVISIONS		
NO.	DATE	ISSUE



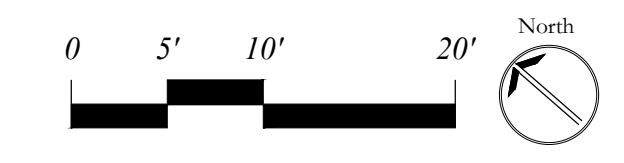
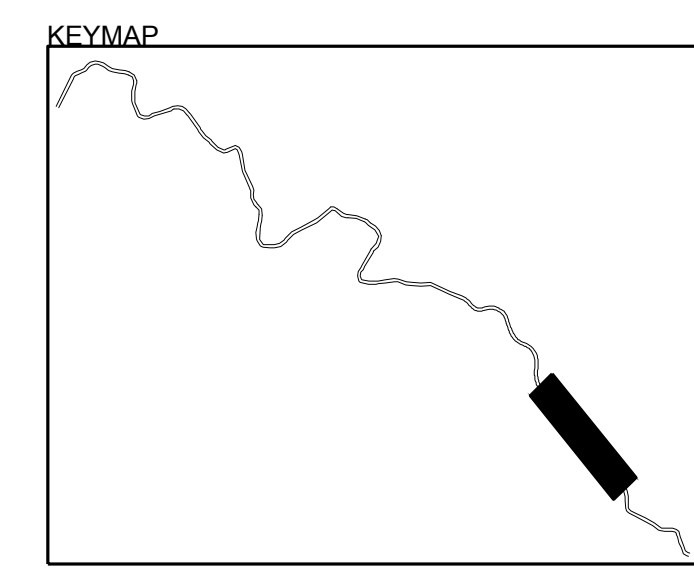
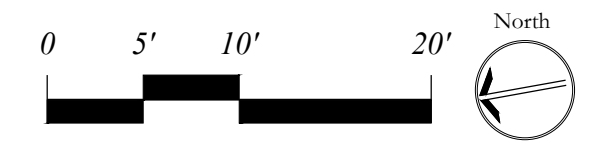


TREE PROTECTION			
NUMBER	TRUNK DIAMETER (INCHES)	DRIPLINE (FEET)	SPECIES
92	30	45	FIR
93	20	35	FIR
94	24	35	FIR
95	24	40	FIR
96	12	20	FIR
97	22	35	FIR
98	36	45	FIR
99	18	35	FIR
100	16	35	LIVE OAK
101	12	25	FIR
102	16-18	45	FIR
103	10	20	FIR

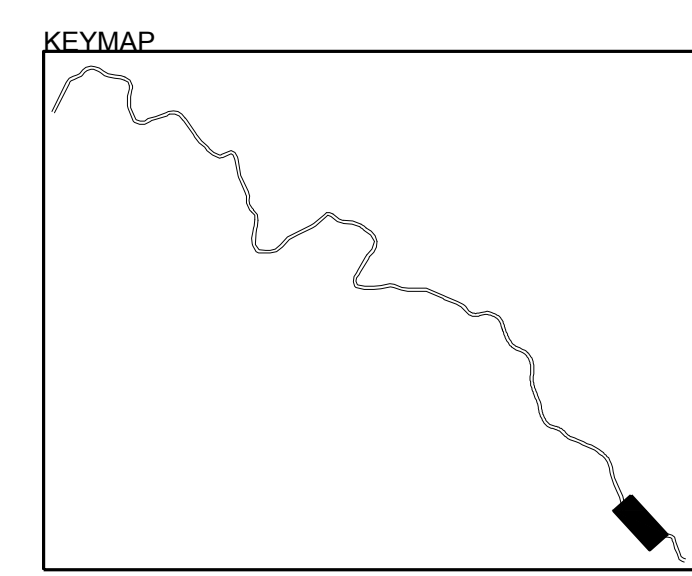
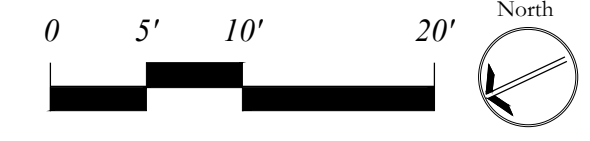
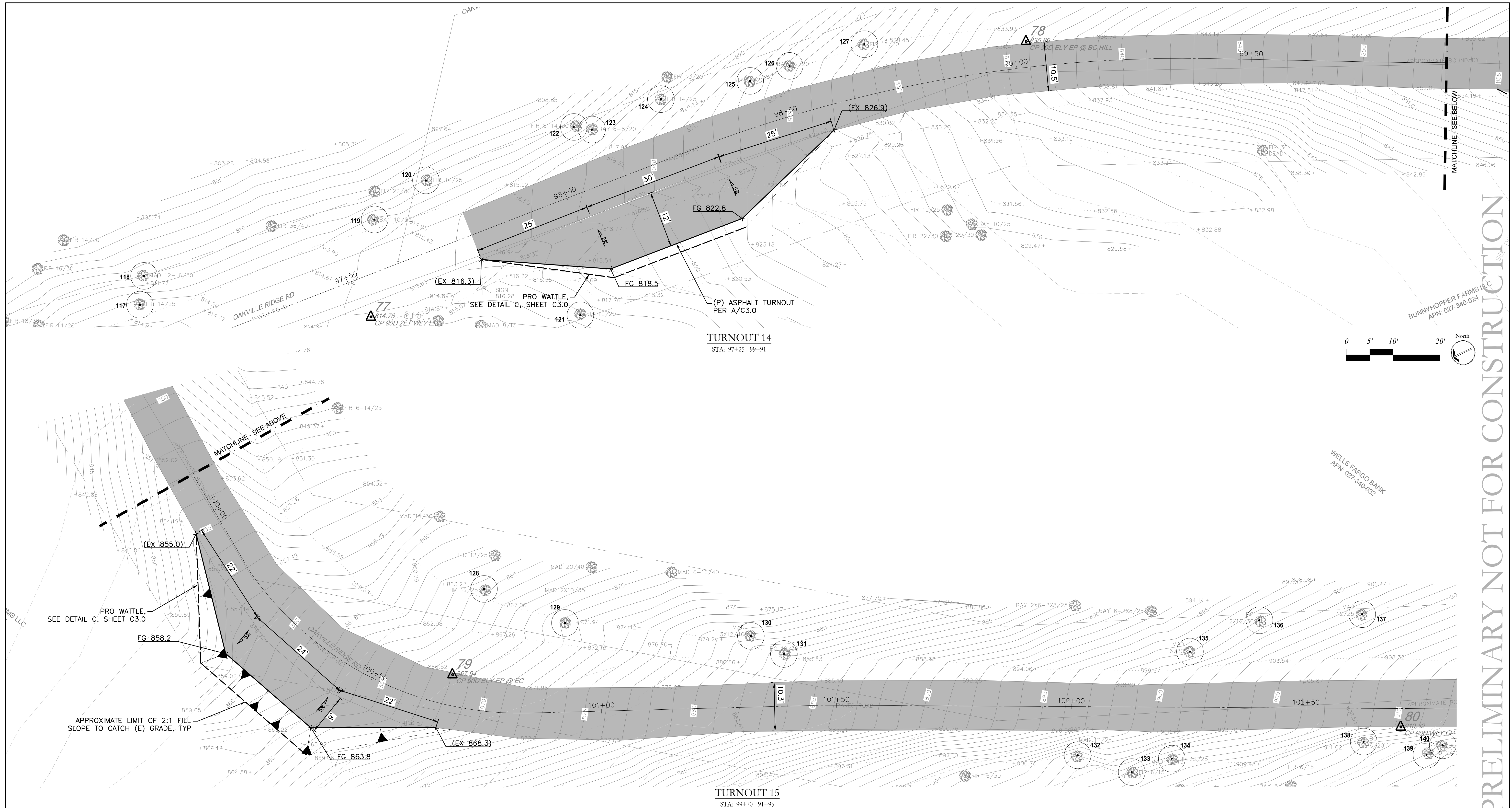
TREE PROTECTION			
NUMBER	TRUNK DIAMETER (INCHES)	DRIPLINE (FEET)	SPECIES
104	6-8	25	MANZ
105	10	20	FIR
106	28	50	EUC
107	6-8	25	BAY
108	28	40	FIR
109	18	30	FIR
110	18-40	55	EUC
111	14	35	FIR
112	40	45	EUC
113	24	35	FIR
114	8	20	WHITE OAK
115	20	30	FIR
116	8	25	WHITE OAK

REVISIONS		
NO.	DATE	ISSUE

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TREE PROTECTION			
NUMBER	TRUNK DIAMETER (INCHES)	DRIPLINE (FEET)	SPECIES
117	14	25	FIR
118	12-16	30	MADRONE
119	10	25	BAY
120	14	25	FIR
121	12	20	FIR
122	8-14	30	FIR
123	6-8	20	BAY
124	14	25	FIR
125	12	20	FIR
126	12	20	BAY
127	16	20	FIR

TREE PROTECTION			
NUMBER	TRUNK DIAMETER (INCHES)	DRIPLINE (FEET)	SPECIES
128	12	25	FIR
129	10	35	MADRONE
130	12	40	MADRONE
131	12	30	BLACK OAK
132	12	25	MADRONE
133	6	15	FIR
134	12	25	FIR
135	16	30	MADRONE
136	12	30	BLACK OAK
137	12	25	MADRONE
138	8	20	BLACK OAK
139	10	30	BLACK OAK
140	8	20	BLACK OAK

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**SHERWOOD**  
DESIGN ENGINEERS  
2518 MISSION STREET  
SAN FRANCISCO, CA 94110  
www.sherwoodengineers.com

**OAKVILLE RIDGE RESIDENCE  
DRIVEWAY IMPROVEMENTS**  
PARCEL 027-340-024 OAKVILLE RIDGE ROAD  
COUNTY OF NAPA, CA

SCALE:  
1" = 20' (Horizontal)  
1" = 10' (Vertical)

REVISIONS		
NO.	DATE	ISSUE

DRAWING TITLE:  
**ROAD ALIGNMENT**

PROJECT #: 19-074  
DATE: 8/02/19  
DWN BY: CL  
DGN BY: CL  
CHKD BY: CA  
DRAWING NO:  
**C1.6**



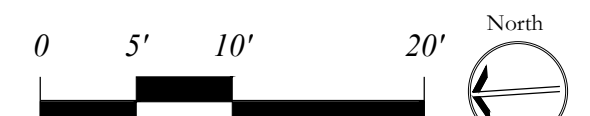
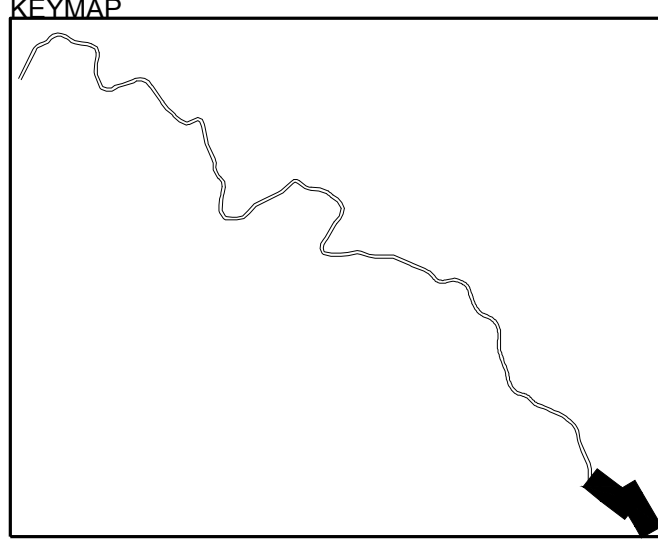


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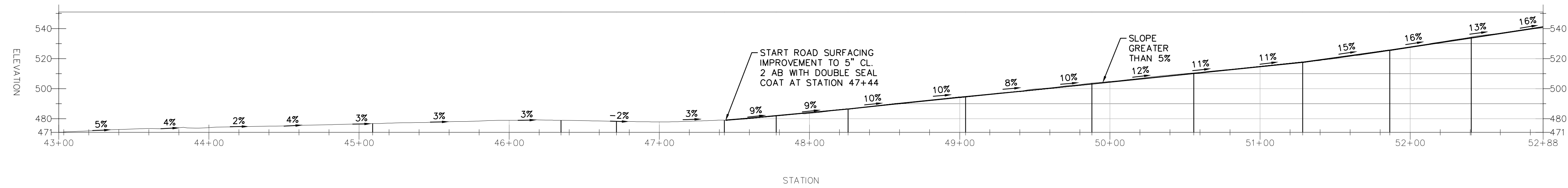
TREE PROTECTION			
NUMBER	TRUNK DIAMETER (INCHES)	DRIPLINE (FEET)	SPECIES
141	30	35	FIR
142	12	30	MADRONE
143	18	30	FIR
144	6	20	BAY
145	16	30	FIR
146	8	20	BAY
147	6-8	25	BAY
148	14	30	BLACK OAK
149	16	30	BLACK OAK
150	16	35	BLACK OAK
151	12	20	MADRONE
152	10-12	30	MADRONE
153	10	25	BLACK OAK
154	22	15	LIVE OAK
155	22	40	FIR
156	10	20	FIR
157	10	20	FIR
158	12	35	BLACK OAK
159	10	30	BLACK OAK
160	10	15	MADRONE

TREE PROTECTION			
NUMBER	TRUNK DIAMETER (INCHES)	DRIPLINE (FEET)	SPECIES
161	12-14	30	MADRONE
162	10	30	MADRONE
163	8	20	FIR
164	16	25	MADRONE
165	10	15	MADRONE
166	8	20	MADRONE
167	10	25	MADRONE
168	10	25	MADRONE
169	12	20	PINE
170	12	20	PINE
171	8	20	MADRONE
172	22	25	PINE
173	12	15	PINE
174	12	20	PINE

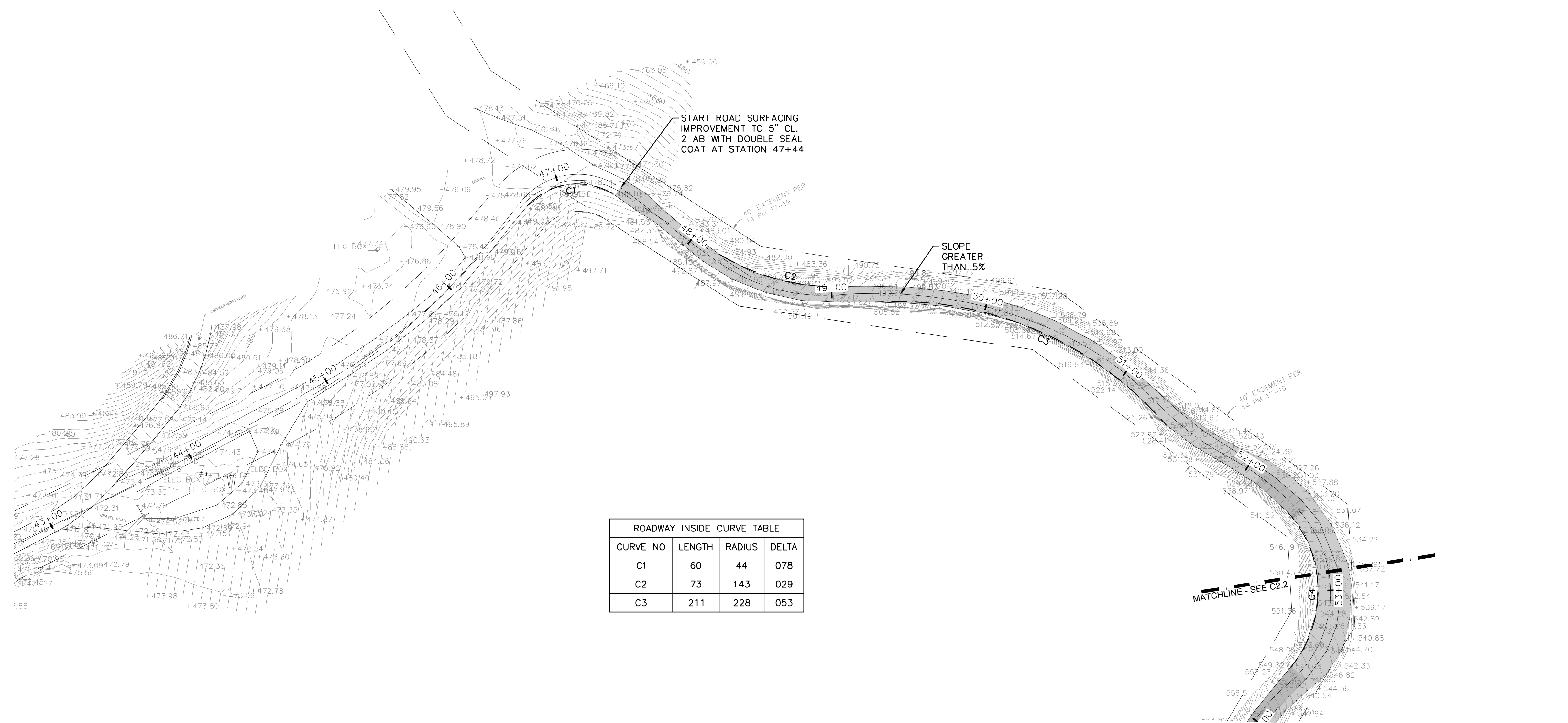
REVISIONS		
NO.	DATE	ISSUE







PROFILE VIEW OF ROAD ALIGNMENT  
SCALE: 1"=40'

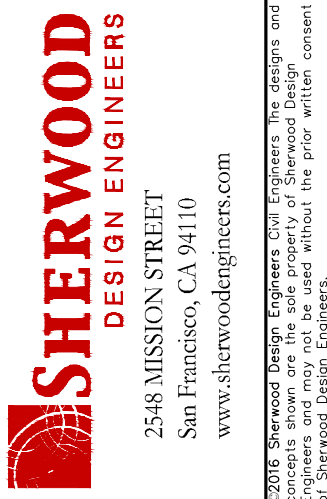


PLAN VIEW OF ROAD ALIGNMENT  
SCALE: 1"=40'

ROADWAY INSIDE CURVE TABLE			
CURVE NO	LENGTH	RADIUS	DELTA
C1	60	44	078
C2	73	143	029
C3	211	228	053



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OAKVILLE RIDGE RESIDENCE  
DRIVEWAY IMPROVEMENTS  
PARCEL 027-340-024 OAKVILLE RIDGE ROAD  
COUNTY OF NAPA, CA

SCALE:  
1"=40'

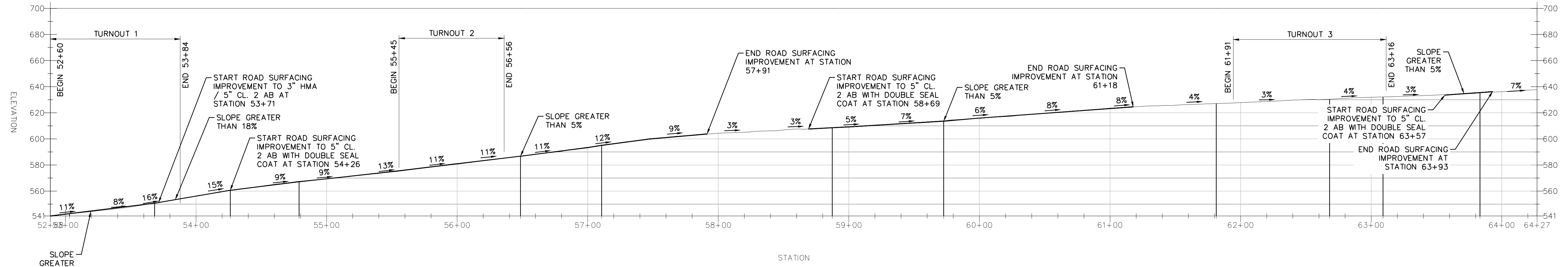
REVISIONS		
NO	DATE	ISSUE

DRAWING TITLE:  
**ROAD PLAN & PROFILE**

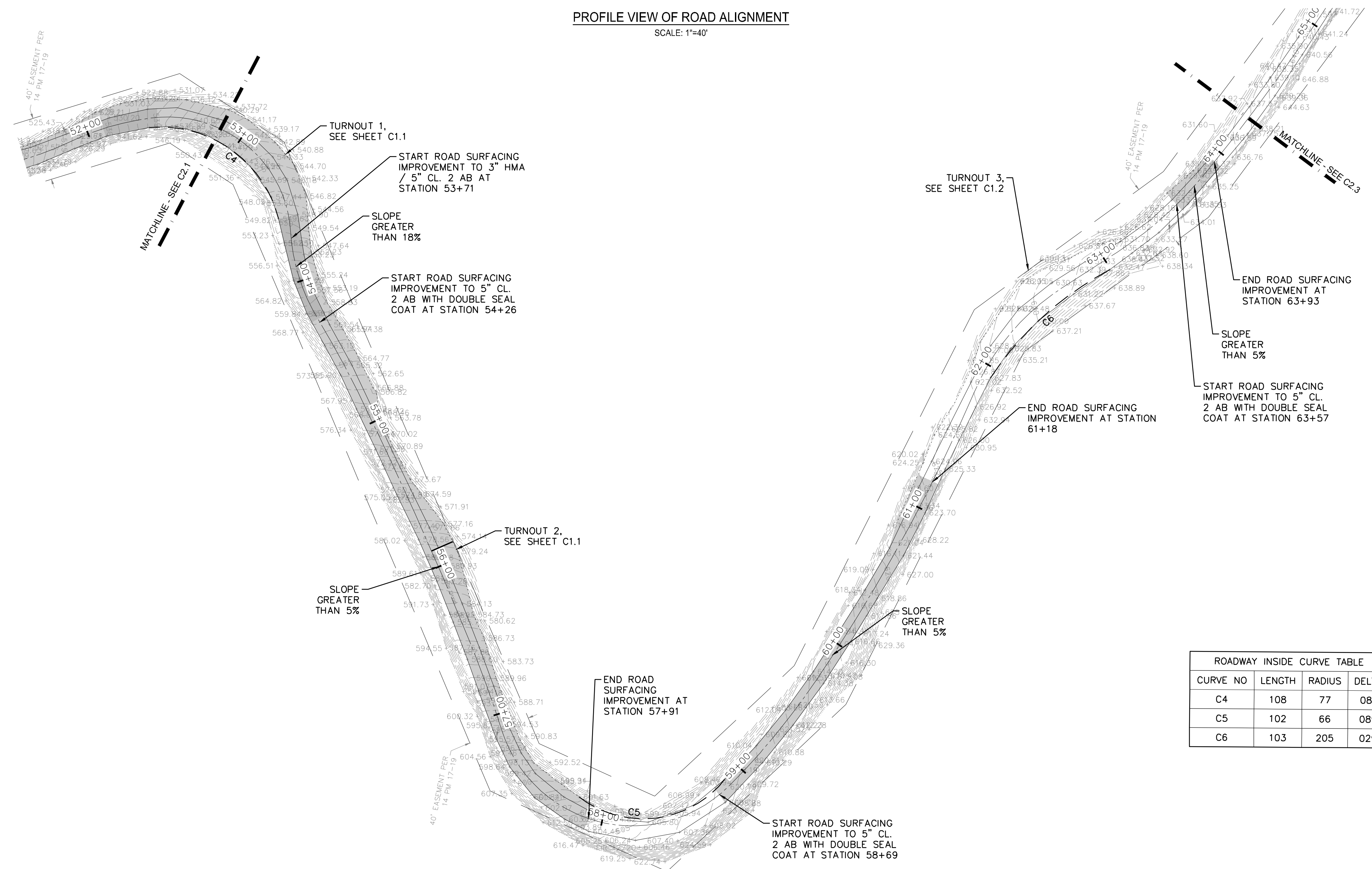
PROJECT #: 19-074  
DATE: 8/02/19  
DWN BY: CL  
DGN BY: CL  
CHKD BY: CA  
DRAWING NO:

**C2.1**



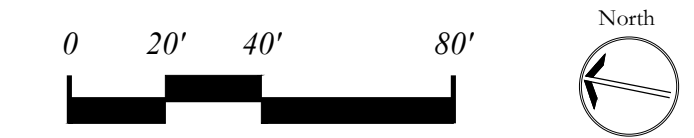


PROFILE VIEW OF ROAD ALIGNMENT  
SCALE: 1"=40'

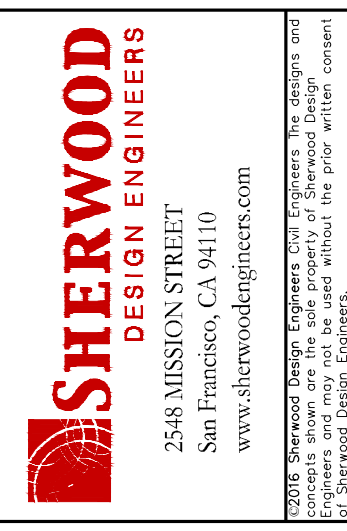


PLAN VIEW OF ROAD ALIGNMENT  
SCALE: 1"=40'

ROADWAY INSIDE CURVE TABLE			
CURVE NO	LENGTH	RADIUS	DELTA
C4	108	77	081
C5	102	66	089
C6	103	205	029



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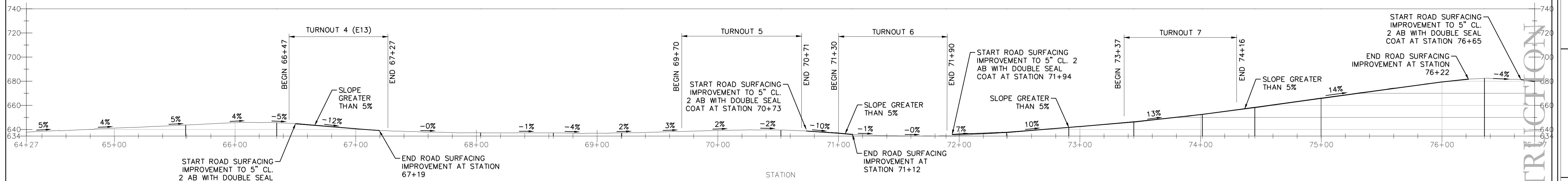
OAKVILLE RIDGE RESIDENCE  
DRIVEWAY IMPROVEMENTS  
PARCEL 027-340-024 OAKVILLE RIDGE ROAD  
COUNTY OF NAPA, CA

REVISIONS		
NO	DATE	ISSUE

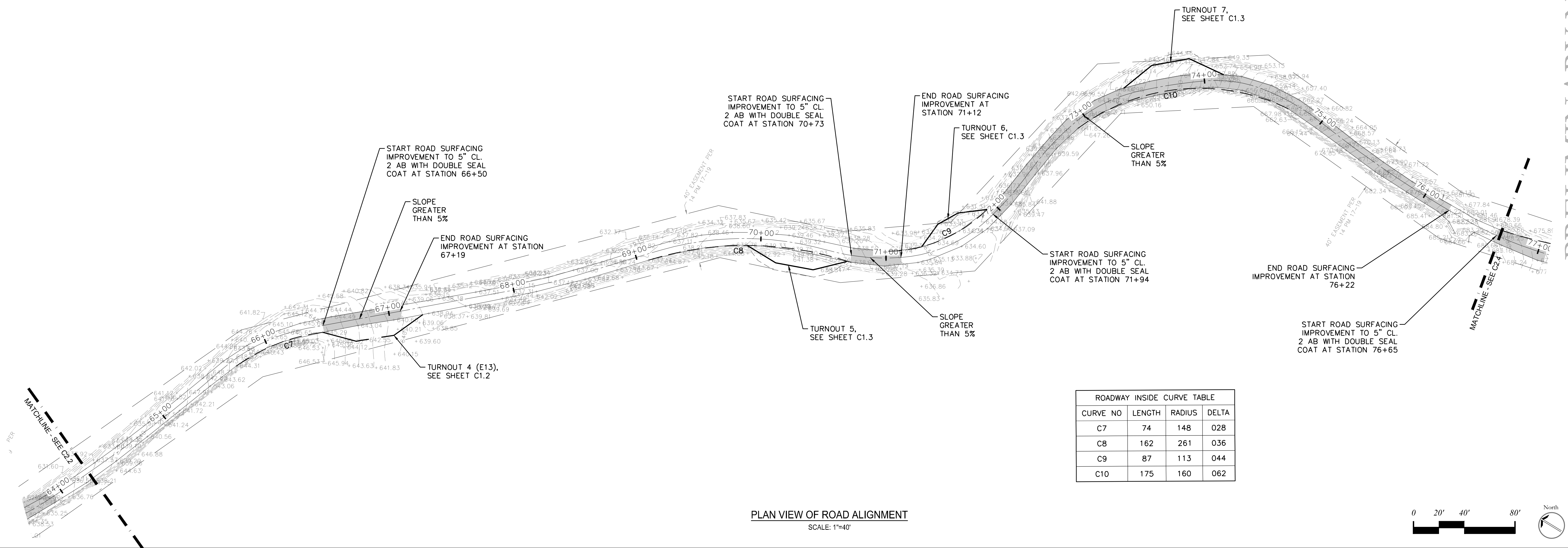
DRAWING TITLE:  
**ROAD PLAN & PROFILE**

PROJECT #: 19-074  
DATE: 8/02/19  
DWN BY: CL  
DGN BY: CL  
CHKD BY: CA  
DRAWING NO:  
**C2.2**





PROFILE VIEW OF ROAD ALIGNMENT  
SCALE: 1"=40'



PLAN VIEW OF ROAD ALIGNMENT  
SCALE: 1"=40'



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REVISIONS

NO	DATE	ISSUE



SCALE:  
Horizontal: 1"=40'  
Vertical: 1"=10'

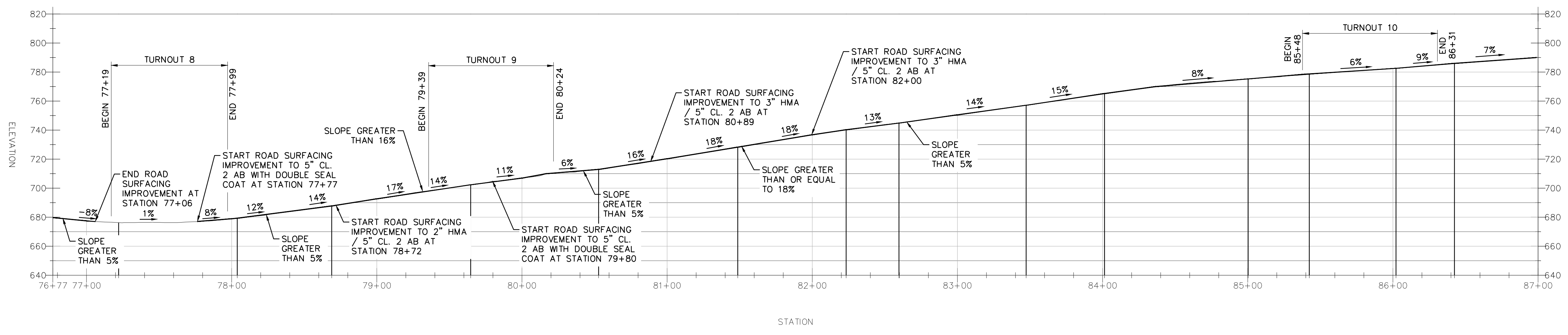
REVISIONS		
NO.	DATE	ISSUE

DRAWING TITLE:  
**ROAD PLAN & PROFILE**

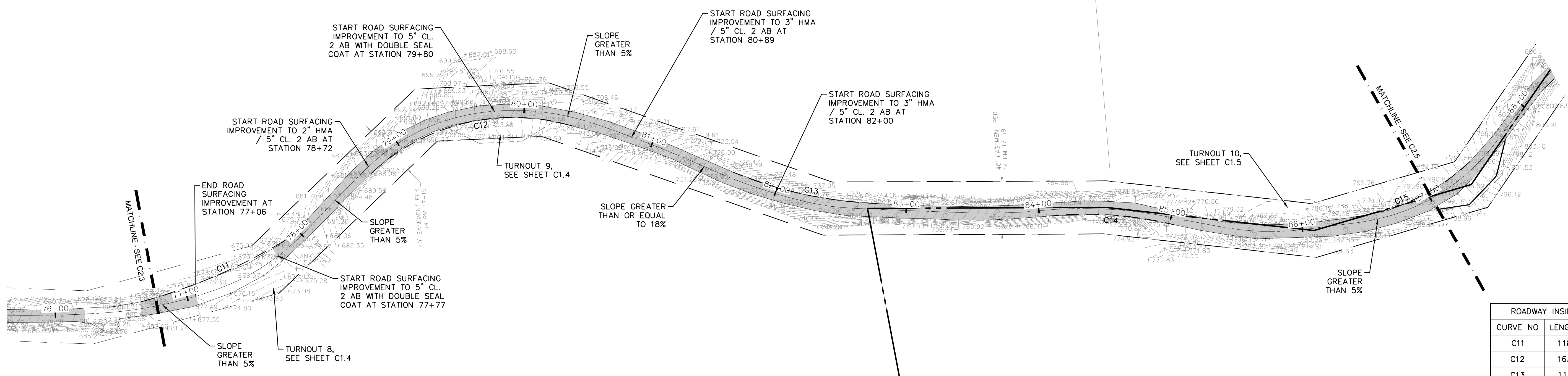
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DATE: 8/02/19  
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CHKD BY: CA  
DRAWING NO.:

**C2.4**

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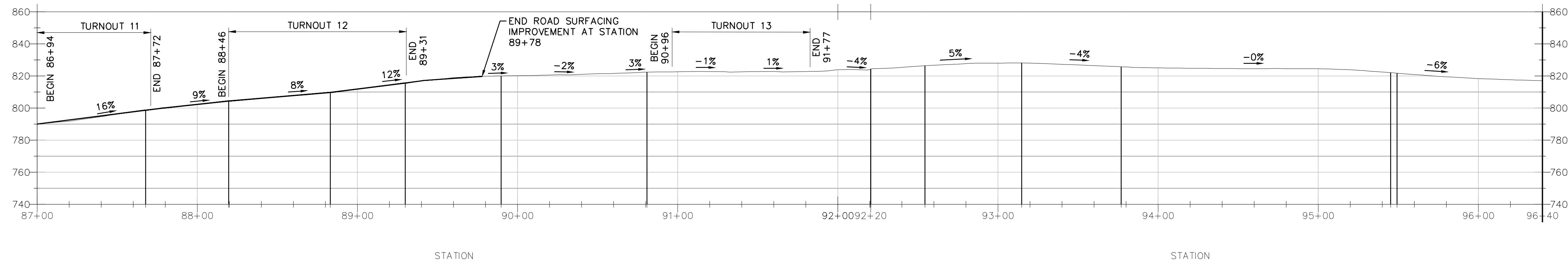
PROFILE VIEW OF ROAD ALIGNMENT  
SCALE: 1"=40'



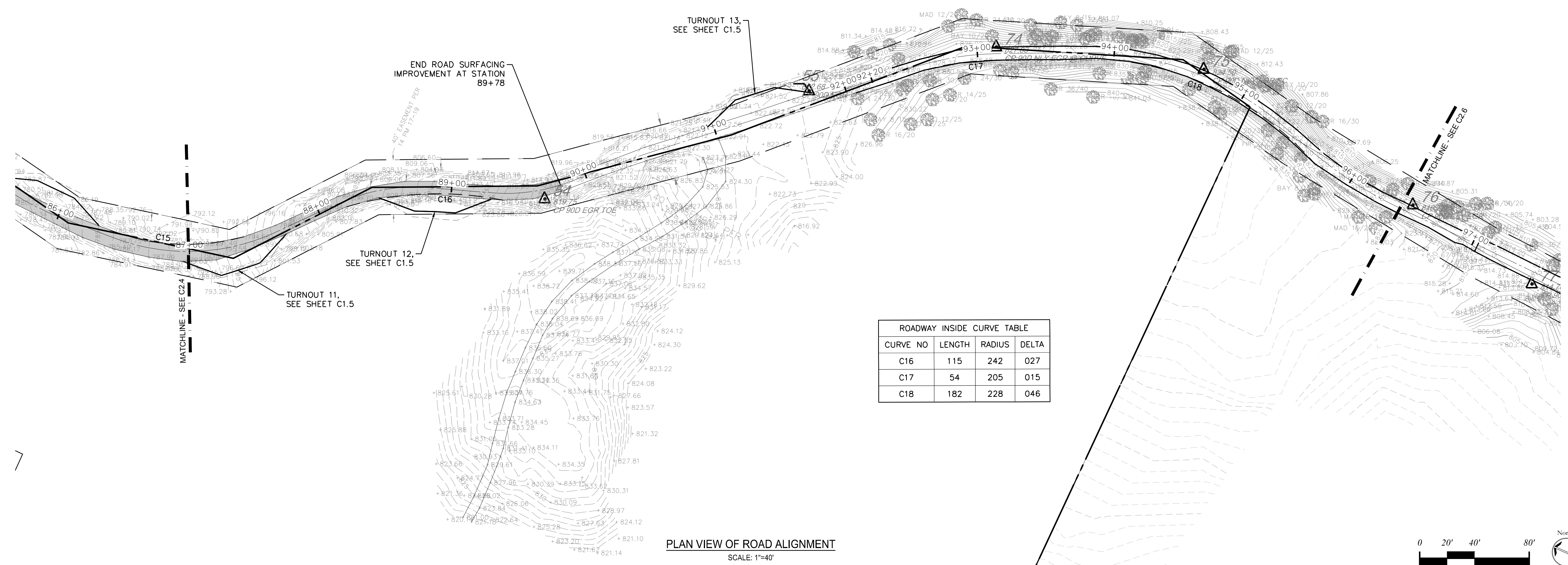
PLAN VIEW OF ROAD ALIGNMENT  
SCALE: 1"=40'

ROADWAY INSIDE CURVE TABLE			
CURVE NO	LENGTH	RADIUS	DELTA
C11	118	417	016
C12	163	157	060
C13	111	309	021
C14	94	276	020
C15	99	159	036





PROFILE VIEW OF ROAD ALIGNMENT  
SCALE: 1"=40'

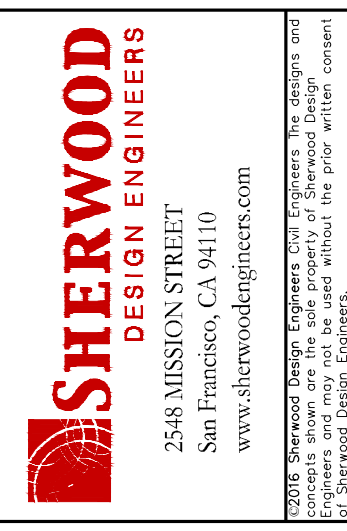


ROADWAY INSIDE CURVE TABLE			
CURVE NO	LENGTH	RADIUS	DELTA
C16	115	242	027
C17	54	205	015
C18	182	228	046

PLAN VIEW OF ROAD ALIGNMENT  
SCALE: 1"=40'



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**OAKVILLE RIDGE RESIDENCE  
DRIVEWAY IMPROVEMENTS**  
PARCEL 027-340-024 OAKVILLE RIDGE ROAD  
COUNTY OF NAPA, CA

SCALE:  
Vertical dimensions are 20' = 1" unless noted otherwise.  
Horizontal dimensions are 40' = 1" unless noted otherwise.

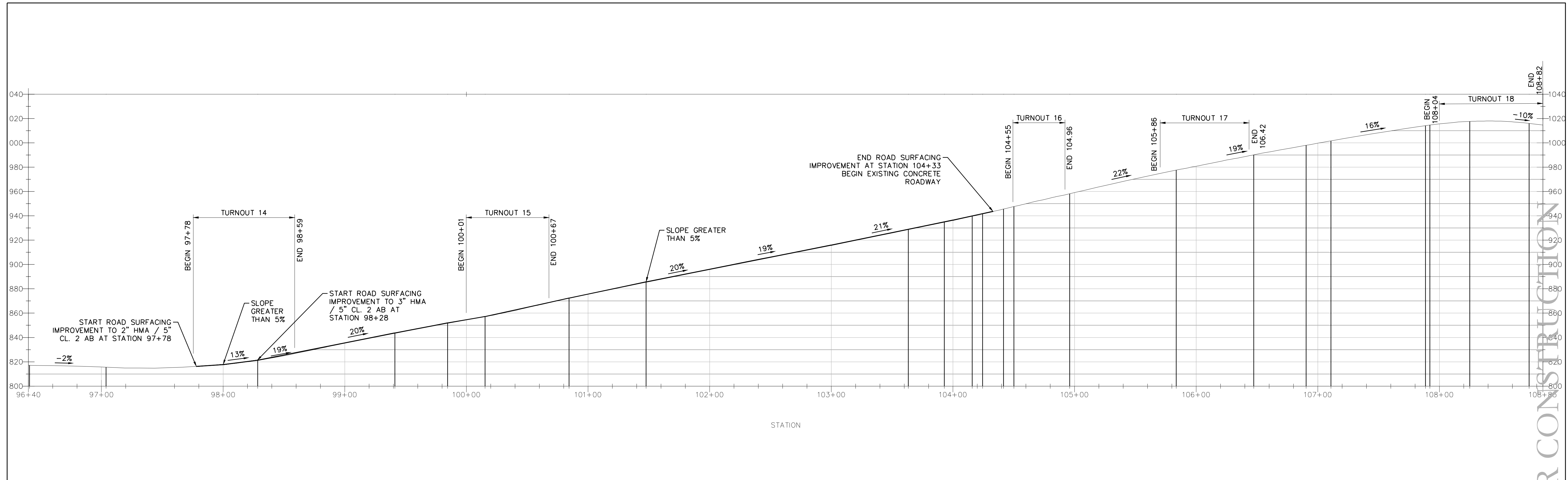
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NO.	DATE	ISSUE

DRAWING TITLE:  
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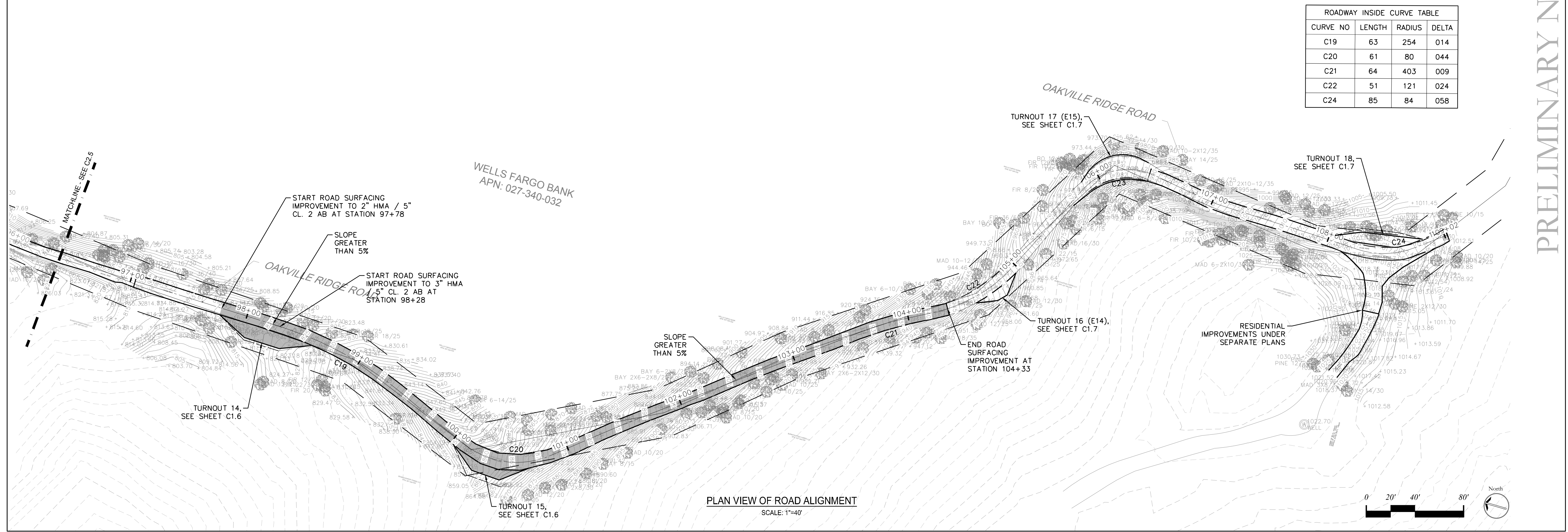
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DATE: 8/02/19  
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DRAWING NO.:

**C2.5**





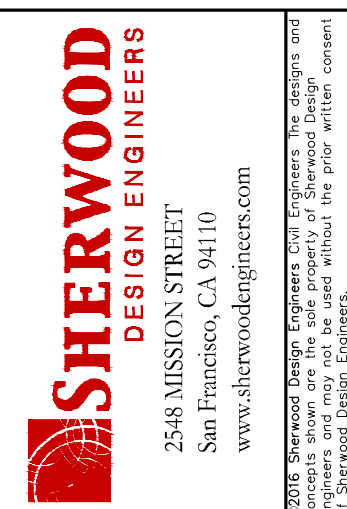
PROFILE VIEW OF ROAD ALIGNMENT  
SCALE: 1"=40'



PLAN VIEW OF ROAD ALIGNMENT  
SCALE: 1"=40'

ROADWAY INSIDE CURVE TABLE			
CURVE NO	LENGTH	RADIUS	DELTA
C19	63	254	014
C20	61	80	044
C21	64	403	009
C22	51	121	024
C24	85	84	058

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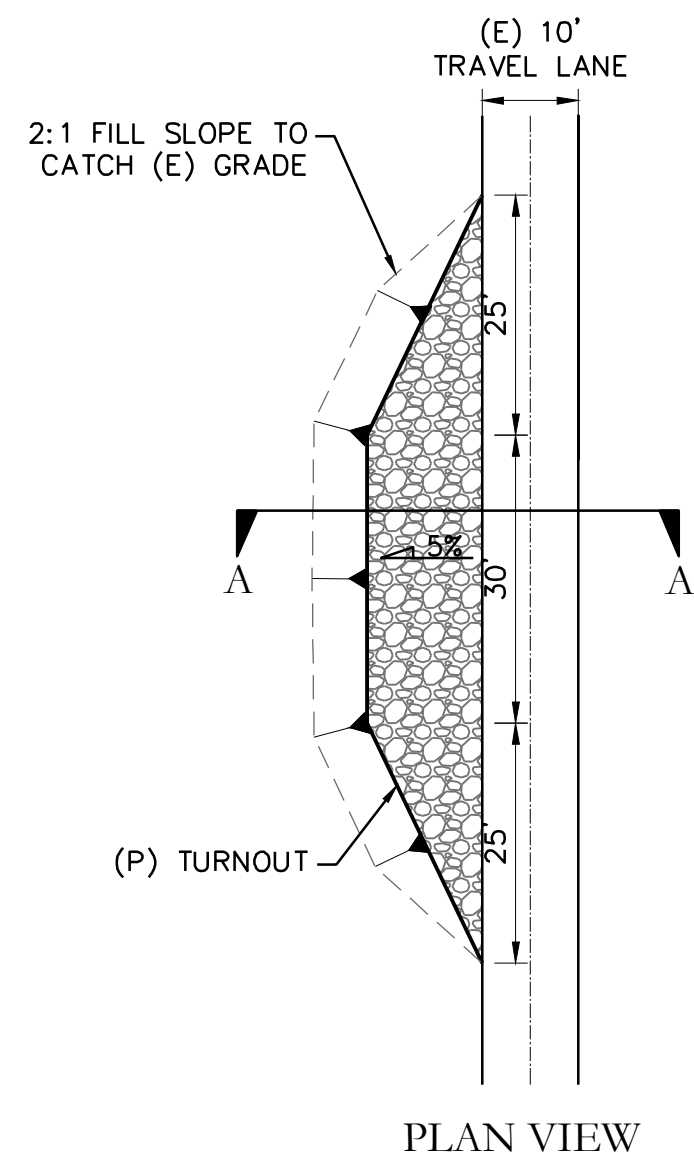
OAKVILLE RIDGE RESIDENCE  
DRIVEWAY IMPROVEMENTS  
PARCEL 027-340-024 OAKVILLE RIDGE ROAD  
COUNTY OF NAPA, CA

REVISIONS		
NO	DATE	ISSUE

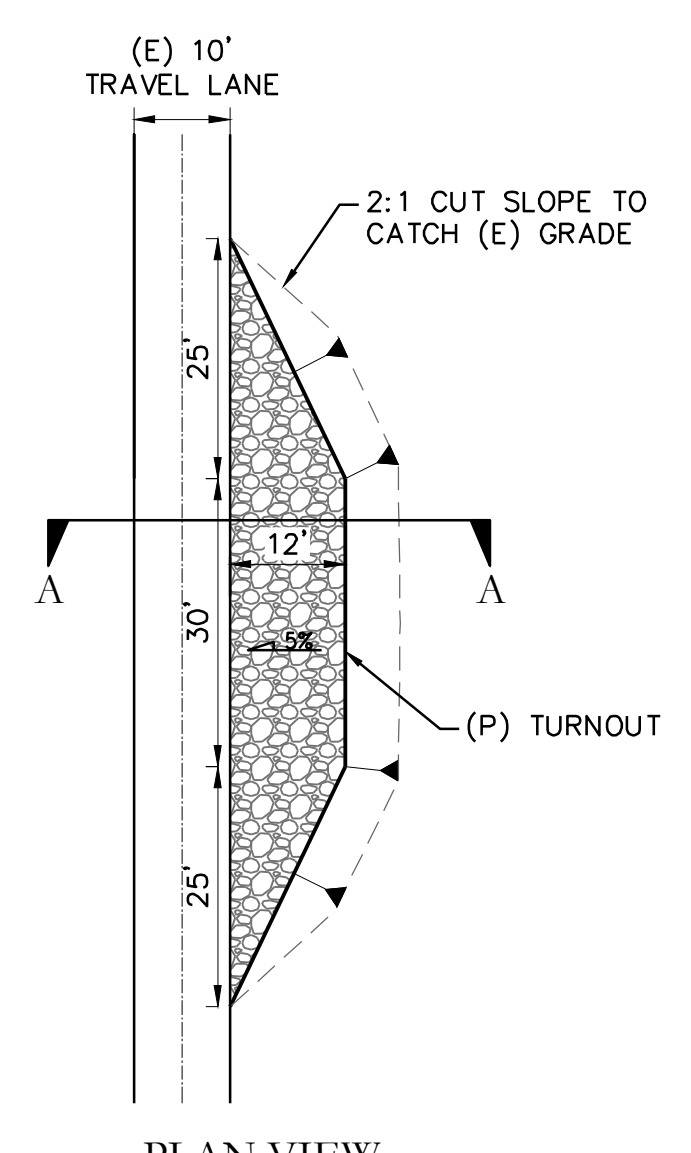
DRAWING TITLE:  
**ROAD PLAN & PROFILE**

PROJECT #: 19-074  
DATE: 8/02/19  
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DGN BY: CL  
CHKD BY: CA  
DRAWING NO:  
**C2.6**

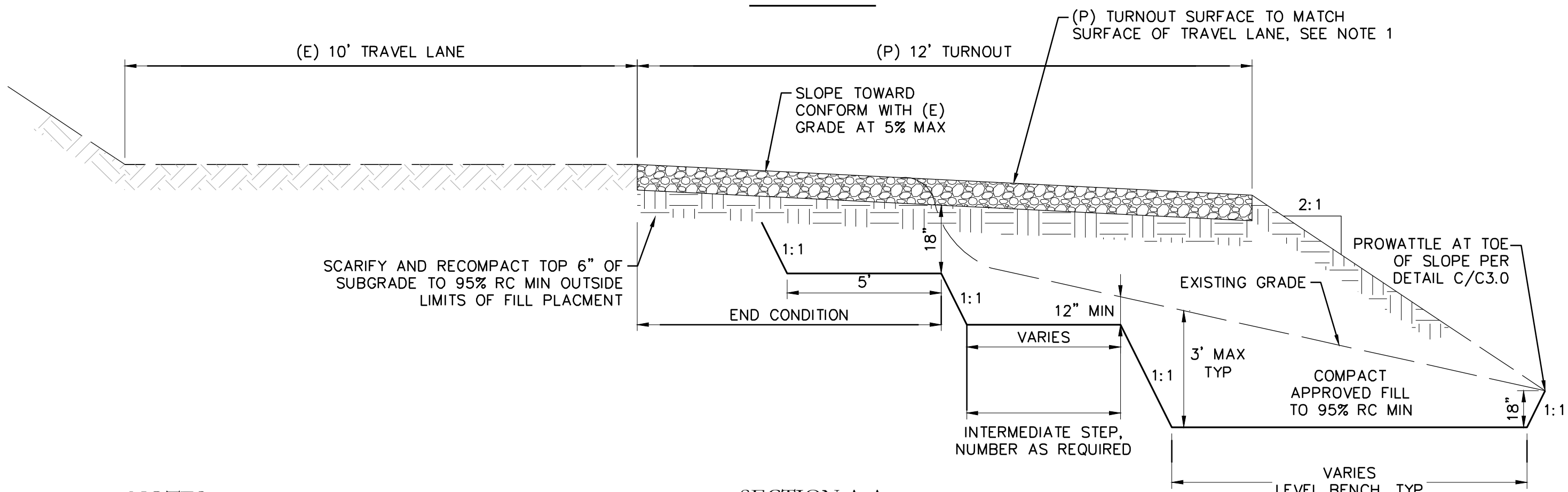




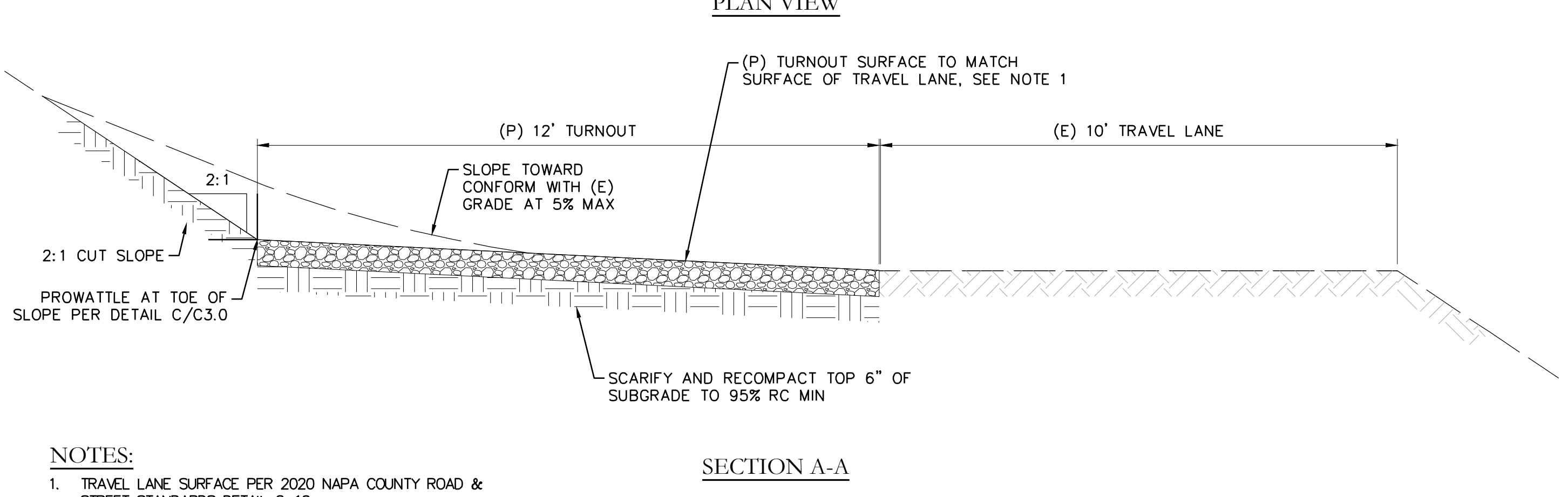
PLAN VIEW



PLAN VIEW



SECTION A-A



SECTION A-A

NOTES:

1. REPEAT INTERMEDIATE BENCH CONDITION AS REQUIRED BY FILL.
2. TRAVEL LANE SURFACE PER 2020 NAPA COUNTY ROAD & STREET STANDARDS DETAIL C-10:

SURFACE	ROAD GRADE
5" CL. 2 AB	0%-5%
5" CL. 2 AB WITH DOUBLE SEAL COAT	5%-16%
2" HMA/5" CL. 2 AB	16%-18%
3" HMA/5" CL. 2AB	18%-20%

NOTES:

1. TRAVEL LANE SURFACE PER 2020 NAPA COUNTY ROAD & STREET STANDARDS DETAIL C-10.

SURFACE	ROAD GRADE
5" CL. 2 AB	0%-5%
5" CL. 2 AB WITH DOUBLE SEAL COAT	5%-16%
2" HMA/5" CL. 2 AB	16%-18%
3" HMA/5" CL. 2AB	18%-20%

A C3.0 TURNOUT FILL CONDITION

B C3.0 TURNOUT CUT CONDITION

ERTEC® PROWATTLE™ INSTALLATION DETAILS - SLOPE

**PROWATTLE INSTALLATION TIPS**

FOR SLOPE INSTALLATION PROWATTLE SHALL BE INSTALLED AS FOLLOWS:

1. A SHELF-CUT SHALL BE CONSTRUCTED 4" HORIZONTALLY INTO THE SLOPE.
2. STAKES SHALL BE INSTALLED ON SLOPES. INSTALL STAKES 5 FEET APART. STAKES SHALL BE DRIVEN FLUSH WITH THE TOP OF THE PROWATTLE. WOOD STAKES SHALL BE AT MINIMUM: 1" X 1" X 12". REBAR J-HOOK STAKES (#3 OR #4) MUST BE A MINIMUM OF 18" LONG.
3. PROWATTLE SHALL BE PLACED AS FOLLOWS:

FEET APART ALONG THE SLOPE SLOPE INCLINATION (VERTICAL:HORIZONTAL)	
10 FEET	1:2 AND STEEPER
15 FEET	1:2 TO 1:4
20 FEET	1:4 AND 1:10
50 FEET	1:10 AND FLATTER

4. THE SHELF-CUT FOR PROWATTLE SHALL BE CLEARED OF OBSTRUCTIONS INCLUDING, BUT NOT LIMITED TO, ROCKS, CLOUDS, AND DEBRIS GREATER THAN 1" IN DIAMETER PRIOR TO INSTALLATION.
5. PROWATTLE SHALL BE INSTALLED PARALLEL TO THE SLOPE CONTOUR.
6. PROWATTLE SHALL BE INSTALLED PRIOR TO THE APPLICATION OF OTHER TEMPORARY EROSION CONTROL OR SOIL STABILIZATION MATERIALS IN THE SAME AREA.
7. WHEN NO LONGER REQUIRED, PROWATTLE CAN BE REMOVED AND REUSED. CRACK LOOSE AND SHAKE SEDIMENT FROM PROWATTLE SEGMENT. IT IS NOT NECESSARY TO CLEAN PROWATTLE OF ALL REMAINING SEDIMENT PRIOR TO REUSE (IT IS NOT NECESSARY TO PRESSURE-WASH PROWATTLE BETWEEN INSTALLATIONS). THE RESIDUAL SEDIMENT THAT REMAINS ON THE FILTER CAN BE BENEFICIAL AS A SECONDARY FILTER (FILTER CAKE) UPON SUBSEQUENT INSTALLATIONS. PRIOR TO REUSE, PERFORM 2-STEP QUALITY INSPECTION AS PER INSTALLATION GUIDE (WWW.ERTECSYSTEMS.COM).

**\*\* NOT TO SCALE \*\***

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ERTEC® PROWATTLE™ INSTALLATION DETAILS - SLOPE

**TRENCH, INSTALL, ANCHOR, BACKFILL**

5 - 6" (TYP)

4" (TYP)

**NOTES:**

1. INSERT ADJOINING SEGMENTS. CHAMFERED END FITS INSIDE ADJOINING SEGMENT.
2. USE 6" NAILS (60D BRIGHT-COMMON). INSTALL 2 NAILS PER EACH 7' SEGMENT, ONE AT OVERLAP AND ONE MID-SEGMENT.
3. INSTALL NAILS FLUSH WITH FLAP SO THAT FLAP IS IN GOOD CONTACT WITH SOIL.
4. COVER FLAP WITH SOIL TO PREVENT UNDERCUTTING.
5. REINFORCE WITH STAKES AS SHOWN - ONE STAKE EVERY 5 FEET. IT IS NOT NECESSARY TO FASTEN THE STAKES TO PROWATTLE. POSITION STAKE ON DOWNSTREAM SIDE OF PROWATTLE TO MINIMIZE LEANING.

**STAKING METHODS:**

1. WOODEN STAKE: 1" X 1" X 12" EVERY 5 FEET.
2. #3 OR #4 REBAR J-HOOK, MINIMUM 18" EVERY 5 FEET.

60D BRIGHT COMMON NAILS THROUGH FLAP 2 PER EACH SECTION

ALTERNATE STAKE: #3 OR #4 REBAR

**\*\* NOT TO SCALE \*\***

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ERTEC® PROWATTLE™ INSTALLATION DETAILS - PERIMETER

5 - 6"

LEVEL AREA, INSTALL, ANCHOR, BACKFILL

**NOTES:**

1. INSERT ADJOINING SEGMENTS. CHAMFERED END FITS INSIDE ADJOINING SEGMENT.
2. USE 6" NAILS (60D BRIGHT-COMMON). INSTALL 2 NAILS PER EACH 7' SEGMENT, ONE AT OVERLAP AND ONE MID-SEGMENT.
3. INSTALL NAILS FLUSH WITH FLAP SO THAT FLAP IS IN GOOD CONTACT WITH SOIL.
4. COVER FLAP WITH 1" OF SOIL TO PREVENT UNDERCUTTING - NOT NECESSARY TO TRENCH.
5. STAKES MIGHT BE REQUIRED. IF SO, INSTALL AS NECESSARY.

**MANTENANCE:** PERFORM MAINTENANCE AS REQUIRED. INSPECT FOLLOWING RAINFALL EVENTS AND AT LEAST DAILY DURING PROLONGED RAINFALL. MAINTAIN TO PROVIDE AN ADEQUATE SEDIMENT HOLDING CAPACITY. DEBRIS SHALL BE REMOVED DAILY AND SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT ACCUMULATION REACHES SIZE OF THE BARRIER HEIGHT. REMOVED SEDIMENT SHALL BE INCORPORATED IN THE PROJECT AT DESIGNATED LOCATIONS.

**IMPORTANT:** ALL INFORMATION INCLUDING ILLUSTRATIONS IS BELIEVED TO BE RELIABLE. USERS HOWEVER SHOULD INDEPENDENTLY EVALUATE THE SUITABILITY OF EACH PROJECT FOR THEIR APPLICATION. ERTEC ENVIRONMENTAL SYSTEMS MAKES NO WARRANTIES AS TO THE ACCURACY OF COMPLETENESS OF THE INFORMATION AND DISCLAIMS ANY LIABILITY REGARDING ITS USE. ERTEC ENVIRONMENTAL SYSTEMS ONLY OBTAINS AND USES THE INFORMATION AND DATA PROVIDED BY ITS CUSTOMERS AND DOES NOT GUARANTEE THE ACCURACY OF ANY INFORMATION OR DATA PROVIDED BY ITS CUSTOMERS. ERTEC ENVIRONMENTAL SYSTEMS RESERVES THE RIGHT TO MAKE CHANGES, WITHOUT NOTIFICATION TO BUYER, TO PROCESSING OF MATERIALS THAT DO NOT AFFECT COMPLIANCE WITH ANY APPLICABLE SPECIFICATION.

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C C3.0 PROWATTLE INSTALLATION

SCALE: NTS

REGISTERED PROFESSIONAL ENGINEER  
SHERWOOD DESIGN ENGINEERS  
2518 MISSION STREET  
SAN FRANCISCO, CA 94110  
www.sherwoodengineers.com

OAKVILLE RIDGE RESIDENCE DRIVEWAY IMPROVEMENTS  
PARCEL 027-340-024 OAKVILLE RIDGE ROAD  
COUNTY OF NAPA, CA

REVISIONS

NO.	DATE	ISSUE

PROJECT #: 19-074  
DATE: 8/02/19  
DWN BY: CL  
DGN BY: CL  
CHKD BY: CA  
DRAWING NO: C3.0

PRELIMINARY NOT FOR CONSTRUCTION

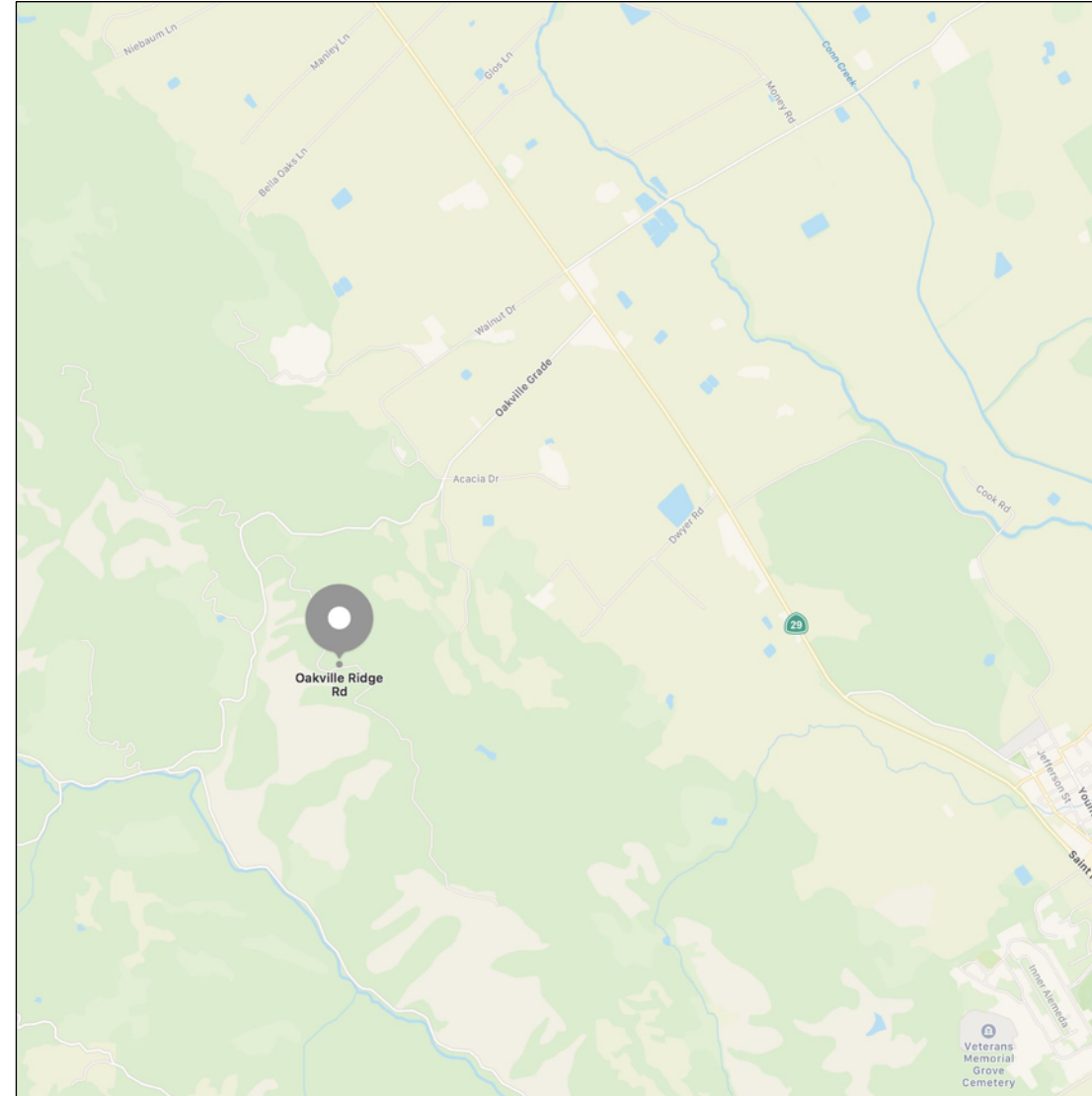


# KALLWEIT RESIDENCE

## LANDSCAPING AND SITE IMPROVEMENTS

OAKVILLE RDIGE RD.  
NAPA, CA 94558  
AP: 027-340-024

### VICINITY MAP



### ABBREVIATIONS & SYMBOLS

	ELEVATION CALLOUT	DEPT.	DEPARTMENT	H.B.	HOSE BIB	SPEC.	SPECIFICATION
	SECTION CALLOUT	D.F.	DOUGLAS FIR	H.P.	HIGH POINT	SQ.	SQUARE
	ALIGN AND AT	DET.	DETAIL	HDWD.	HARDWOOD	S.ST.	STAINLESS STEEL
	CENTERLINE	DI	DROP INLET	HORIZ.	HORIZONTAL	STD.	STANDARD
#	POUND/NUMBER	DR.	DOWN	HT.	HEIGHT	STL.	STEEL
(E)	EXISTING	DS.	DOWNSPOUT	INST.	INSTALL	STOR.	STORAGE
(N)	NEW	DR.	DOOR	JT.	JOINT	STR.	STRUCTURAL
A.C.	AIR CONDITIONING	MAX.	MAXIMUM	MECH.	MECHANICAL	SYM.	SYMMETRICAL
A.D.	AREA DRAIN	MFR.	MANUFACTURER	TRD.	TREAD	T.C.	TOP OF CURB
ADJ.	ADJUSTABLE	MH.	MANHOLE	T.P.	TOP OF PIER/COLUMN	T.W.	TOP OF WALL
APPROX.	APPROXIMATE	MIN.	MINIMUM	TYP.	TYPICAL	U.O.N.	UNLESS OTHERWISE NOTED
ARCH.	ARCHITECTURAL	MISC.	MISCELLANEOUS	VERT.	VERTICAL	W/	WITH
BD.	BOARD	N.I.C.	NOT IN CONTRACT	WD.	WOOD	W.M.	WATER METER
BLDG.	BUILDING	NO./ #	NUMBER	W/O	WITHOUT	WP.	WATERPROOF
B.W.	BOTTOM OF WALL	NOM.	NOMINAL				
C	CABLE	N.T.S.	NOT TO SCALE				
C.B.	CATCH BASIN	O.C.	ON CENTER				
CEM.	CEMENT	O.C.E.W.	ON CENTER EACH WAY				
CER.	CERAMIC	O.E.	OR EQUAL				
C.J.	CONTROL JOINT	P.A.	PLANTING AREA				
CLR.	CLEAR	P.L.	PROPERTY LINE				
CONC.	CONCRETE	P.O.B.	POINT OF BEGINNING				
CONN.	CONNECTION	R.	RISER				
CONT.	CONTINUOUS	RAD.	RADIUS				
CTSK.	COUNTERSUNK	REF.	REFERENCE				
CTR.	CENTER	REINF.	REINFORCED				
DBL.	DOUBLE	REQ.	REQUIRED				
		RM.	ROOM				
		RWD.	REDWOOD				
		RWD.	REDWOOD				
		SHT.	SHEET				
		SIM.	SIMILAR				

### INDEX TO DRAWINGS:

- COVER SHEET
- DEMOLITION PLAN
- GRADING/DRAINAGE PLAN
- MATERIALS/LAYOUT PLAN
- PLANTING PLAN
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- IRRIGATION LEGEND & NOTES
- IRRIGATION DETAILS
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- IR-1
- IR-2
- IR-3
- IR-4

### GENERAL NOTES

1. ALL WORK SHALL CONFORM TO OR EXCEED THE REQUIREMENTS OF THE 2016 EDITION OF THE CALIFORNIA BUILDING CODE, REGARDLESS OF WHAT IS SHOWN OR NOT SHOWN IN THE CONTRACT DOCUMENTS. ALL WORK SHALL COMPLY WITH THE FOLLOWING CODES.

THE CURRENT UNIVERSAL BUILDING CODES AND STANDARDS AS ADOPTED BY CALIFORNIA WILL BE ENFORCED BY THE COUNTY OF MARIN

- CALIFORNIA BUILDING CODE
- CALIFORNIA PLUMBING CODE
- CALIFORNIA MECHANICAL CODE
- CALIFORNIA ELECTRICAL CODE
- CALIFORNIA ENERGY CODE
- CALIFORNIA FIRE CODE
- CALIFORNIA RESIDENTIAL CODE

2. THE CONTRACTOR SHALL COMPLY WITH THE COUNTY OF NAPA ORDINANCE AND ALL OTHER APPLICABLE STATE OR LOCAL ORDINANCES. IN THE EVENT OF A CONFLICT, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.

3. CONFLICTS IN THE CONTRACT DOCUMENTS: IN CASE OF DISCREPANCIES OR CONFLICTS IN INFORMATION OR REQUIREMENTS WITHIN THE DRAWINGS, SPECS, OR BETWEEN THE DRAWINGS AND THE SPECS, THE MOST EXPENSIVE REQUIREMENT SHOWN OR SPECIFIED SHALL BE THE BASIS OF THE CONTRACT FOR CONSTRUCTION.

4. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER GRAPHIC SCALE SHOWN ON THE DRAWINGS. DO NOT SCALE DRAWINGS. ALL DIMENSIONS ARE SHOWN TO THE FACE OF FINISH UNLESS OTHERWISE NOTED.

5. ALL SYSTEMS AND ASSEMBLIES SHALL BE COMPLETE AND OPERATIVE THOUGH NOT FULLY DESCRIBED IN THE CONTRACT DOCUMENTS. IN THE EVENT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER OF SIMILAR CONDITIONS SHOWN OR CALLED FOR.

6. UNLESS OTHERWISE NOTED ALL CONNECTIONS AND FASTENERS SHALL BE CONCEALED. THE USE OF SURFACE FASTENERS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT. ALL EXTERIOR FASTENERS SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.

7. THE OWNER AND ARCHITECT SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS METHODS OR TECHNIQUES, SEQUENCES OR PROCEDURES OF THE CONTRACTOR; SAFETY PRECAUTIONS AND PROGRAMS OF THE CONTRACTOR; OR FAILURE OF THE CONTRACTOR TO PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

8. THESE DRAWINGS MAY NOT BE TO SCALE AND ARE FOR ILLUSTRATION PURPOSED ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO EXECUTING THE WORK.

9. LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER DRAWINGS.

10. INSTALL ALL MATERIALS, EQUIPMENT, FIXTURES, APPLIANCES AND ACCESSORIES IN CONFORMANCE WITH THE MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS. ALL WORK SHALL BE INSTALLED PLUMB, LEVEL AND TRUE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

11. THE CONTRACTOR SHALL HOLD HARMLESS THE OWNER, THE ARCHITECT AND THE COUNTY OF NAPA FROM ALL LIABILITIES AND DAMAGES RESULTING FROM HIS CONSTRUCTION OPERATIONS.

12. ANY AMBIGUITY OR DISCREPANCY DISCOVERED BY THE USE OF THESE PLANS SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT.

13. DESIGN-BUILD SYSTEMS: THE ELECTRICAL, LIGHTING AND IRRIGATION WORK SHALL BE "DESIGN-BUILD" PER THE CRITERIA OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL PROVIDE THE DESIGN AND CONSTRUCTION OF THESE SYSTEMS INTO THE WORK. THE LAYOUT OF THESE SYSTEMS ON THE DRAWINGS IS SCHEMATIC IN NATURE AND ONLY INTENDED TO INDICATE THE OVERALL SCOPE OF THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ENSURING THE PROPOSED SYSTEMS ARE IN COMPLIANCE WITH ALL CALCULATIONS AND SPECIFICATIONS AS MAY BE REQUIRED FOR THE ISSUANCE OF BUILDING PERMITS FOR THESE SYSTEMS.

14. SPOT ELEVATIONS INDICATED ARE CRITICAL ELEVATIONS. INTERVENING ELEVATIONS NOT SPECIFICALLY NOTED SHALL BE INTERPOLATED FROM ELEVATIONS SHOWN. A MINIMUM SLOPE OF EXTERIOR SURFACES SHALL BE 2% U.O.N.

15. INSURANCE: EACH CONTRACTOR SHALL MAINTAIN INSURANCE IN FULL FORCE AND EFFECT FOR THE LIFE OF THE CONTRACT, AND GIVE EVIDENCE OF SAME OR A CERTIFICATE INDICATING ITS EXISTENCE DELIVERED TO THE OWNER AND THE ARCHITECT AND GENERAL CONTRACTOR THE POLICIES LISTED HEREIN:

a) WORKER'S COMPENSATION COVERING CONTRACTOR'S FULL LIABILITY UNDER "THE WORKMAN'S COMPENSATION AND SAFETY ACTS."

b) COMPREHENSIVE GENERAL LIABILITY INSURANCE IN THE FOLLOWING AMOUNTS:  
BODILY INJURY: \$1,000,000  
PROPERTY DAMAGE: \$1,000,000

c) COMPREHENSIVE AUTO LIABILITY INSURANCE IN THE FOLLOWING AMOUNTS:  
BODILY INJURY: \$1,000,000 EACH PERSON  
PROPERTY DAMAGE: \$1,000,000 EACH OCCURANCE

16. CONTRACTOR'S LIABILITY INSURANCE SHALL INCLUDE THE "OWNER" AND THE "ARCHITECT" AS ADDITIONAL INSURED. CONTRACTOR IS TO PROVIDE CERTIFICATE OF INSURANCE TO EACH OF THE ADDITIONAL INSURED PRIOR TO COMMENCING WORK. PROGRESS PAYMENTS WILL BE WITHHELD UNTIL CERTIFICATES ARE RECEIVED BY THE OWNER AND THE ARCHITECT.

17. GUARANTEE: UNLESS SPECIFICALLY STATED TO THE CONTRARY IN THE DRAWINGS, THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO THE EFFECT THAT ALL MATERIALS AND WORKMANSHIP FURNISHED UNDER THE CONTRACT SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE TO BE FREE FROM DEFECTS AND FAULTY WORKMANSHIP AND THAT ANY SUCH DEFECTS SHALL BE PROMPTLY REPAIRED OR REPLACED WITHOUT ADDITIONAL COST TO THE OWNER.

### LAYOUT NOTES

DIMENSIONS ARE TO FACE OF OR CENTERLINE OF UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING. WRITTEN DIMENSIONS SUPERSEDE SCALED DISTANCES AND DIMENSIONS. ALL LANDSCAPE ELEMENTS TO BE LOCATED AS INDICATED ON PLAN OR AS FIELD-ADJUSTED BY THE LANDSCAPE ARCHITECT. LANDSCAPE ARCHITECT TO VERIFY LAYOUT IN FIELD PRIOR TO COMMENCEMENT OF CONSTRUCTION.

THE CONTRACTOR IS TO VERIFY THE LOCATIONS OF ALL ON-SITE UTILITIES BEFORE COMMENCING WITH HIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED UTILITIES.

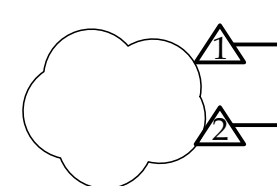
CONTRACTORS ARE TO EXERCISE EXTREME CARE IN BACKFILLING AND COMPACTING AND EXCAVATING OR TRENCHING IN AREAS PREVIOUSLY COMPACTED.

STUMPS AND ROOTS SHALL BE REMOVED FROM THE SOIL TO A DEPTH OF AT LEAST 12" BELOW THE SURFACE OF THE GROUND IN THE AREA TO BE OCCUPIED BY THE BUILDING. PER SEC.3304 OF CBC.

### PROTECTION GUIDELINES FOR EXISTING TREES

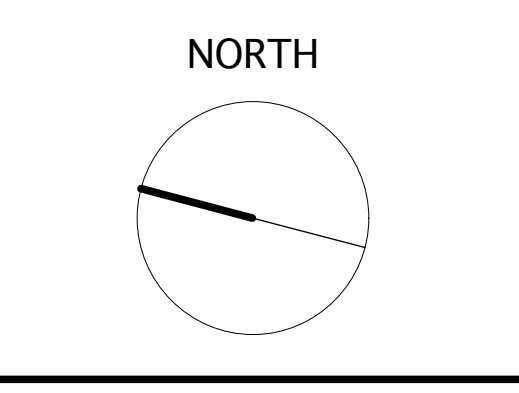
PERFORM THE FOLLOWING PRIOR TO AND DURING DEVELOPMENT:

- (1) AVOID ADDING BACKFILL OVER THE ROOT ZONES OF EXISTING TREES.
- (2) AVOID COMPACTING SOIL OVER THE ROOT ZONES. DO NOT TRAFFIC WITH HEAVY EQUIPMENT, PILE DEBRIS OR MATERIALS, OR LEAVE EQUIPMENT STANDING OVER THE ROOT ZONES OF THE TREES.
- (3) INSTALL PROTECTION WIRE FENCE AROUND THE TREE ROOT ZONE AND TRUNK INTENDED TO BE PRESERVED. IF DEVELOPMENT IS INTENDED WITHIN THE DRIP LINE, OTHER PRECAUTIONS CAN BE TAKEN, SUCH AS PLACING HAY BALES AROUND THE TRUNKS SO THE BARK IS NOT STRUCK WITH EQUIPMENT.
- (4) WHEN REMOVING LARGE LIMBS, THE FINAL CUT SHOULD NOT BE FLUSH WITH THE TRUNK OF THE TREE. THIS REMOVES THE BRANCH COLLAR THAT CONTAINS A CHEMICAL BARRIER ZONE THAT CONTROLS ROTTING ORGANISMS. TRADITIONAL SURGERY PAINT SHOULD NOT BE USED, IT IS OF NO VALUE AND MAY PROMOTE ROT.
- (5) USE AERATION SYSTEMS SUCH AS TILES, GEOTEXTILES, WELLS, AND WALLS AS AN ALTERNATIVE TO PAVING OVER ROOT ZONES.
- (6) WHEN WORKING WITHIN THE ROOT ZONE, DIG TRENCHES AND TUNNELS BY HAND TO AVOID UNNECESSARY ROOT DAMAGE.
- (7) ANY ROOT OVER 3" IN DIAMETER THAT IS DAMAGED SHOULD BE CUT FLUSH TO ELIMINATE JAGGED EDGES.
- (8) IRRIGATE THE ROOT ZONE WITH A SOAKER HOSE PER DIRECTION OF L.A. SPREAD MULCH OR WOOD CHIPS OVER THE SURFACE TO REDUCE EVAPORATION.



**KALLWEIT RESIDENCE**  
Oakville Ridge Rd.  
Napa, CA 94558  
AP: 027-340-024

DRAWN BY	DD
SCALE	1"=10'-0"
DATE	ISSUE
02/13/2020	VIEWSHED PROTECTION PROGRAM SUBMITTAL
06/26/2020	VIEWSHED PROTECTION PROGRAM RESUBMITTAL
11/16/2020	VIEWSHED PROTECTION PROGRAM RESUBMITTAL

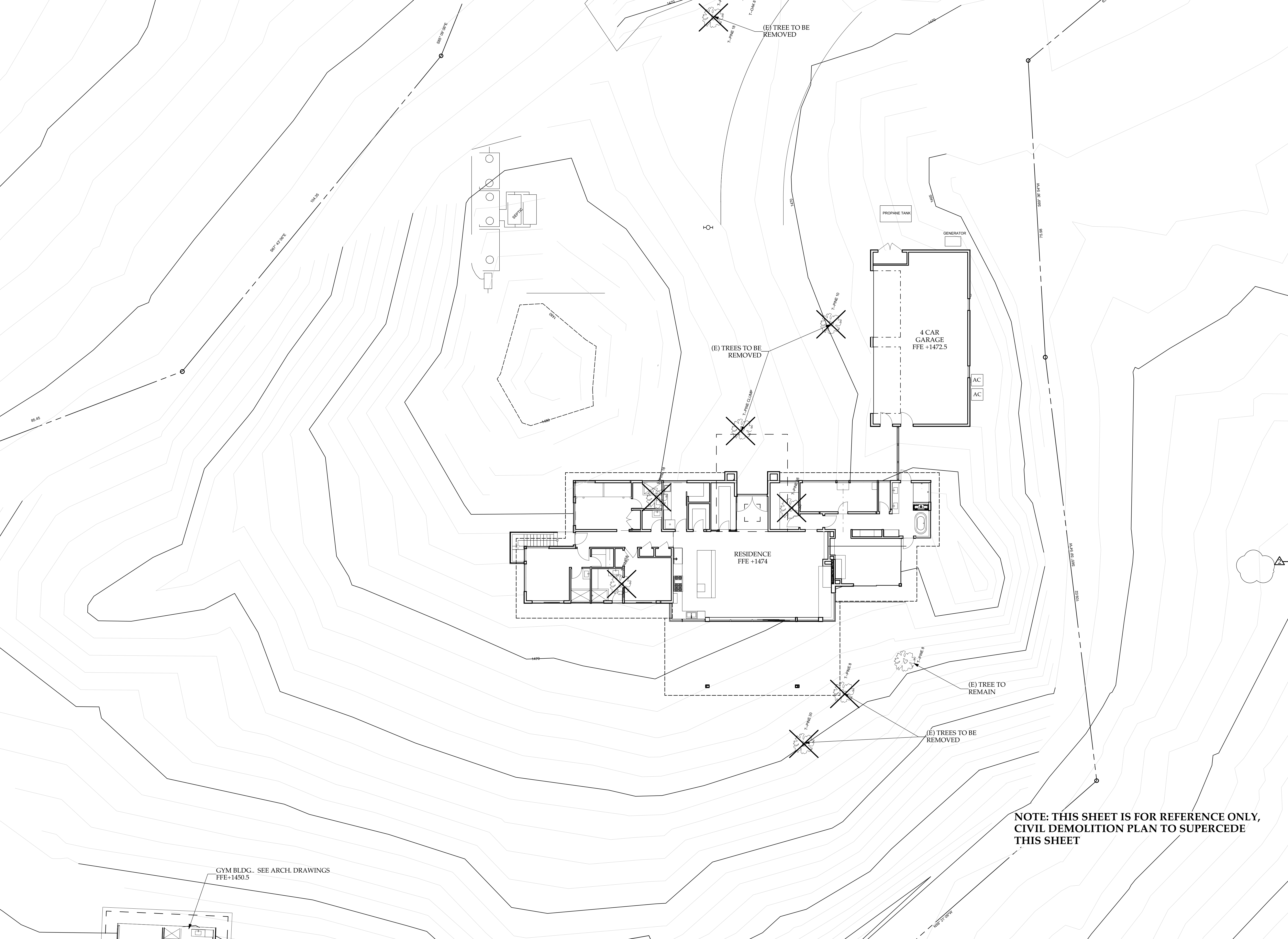


### COVERSHEET

# L-0

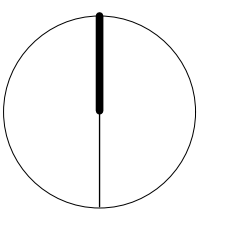
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NORTH

**DEMOLITION PLAN**

**NOTE: THIS SHEET IS FOR REFERENCE ONLY, CIVIL DEMOLITION PLAN TO SUPERCEDE THIS SHEET**

**L-1**

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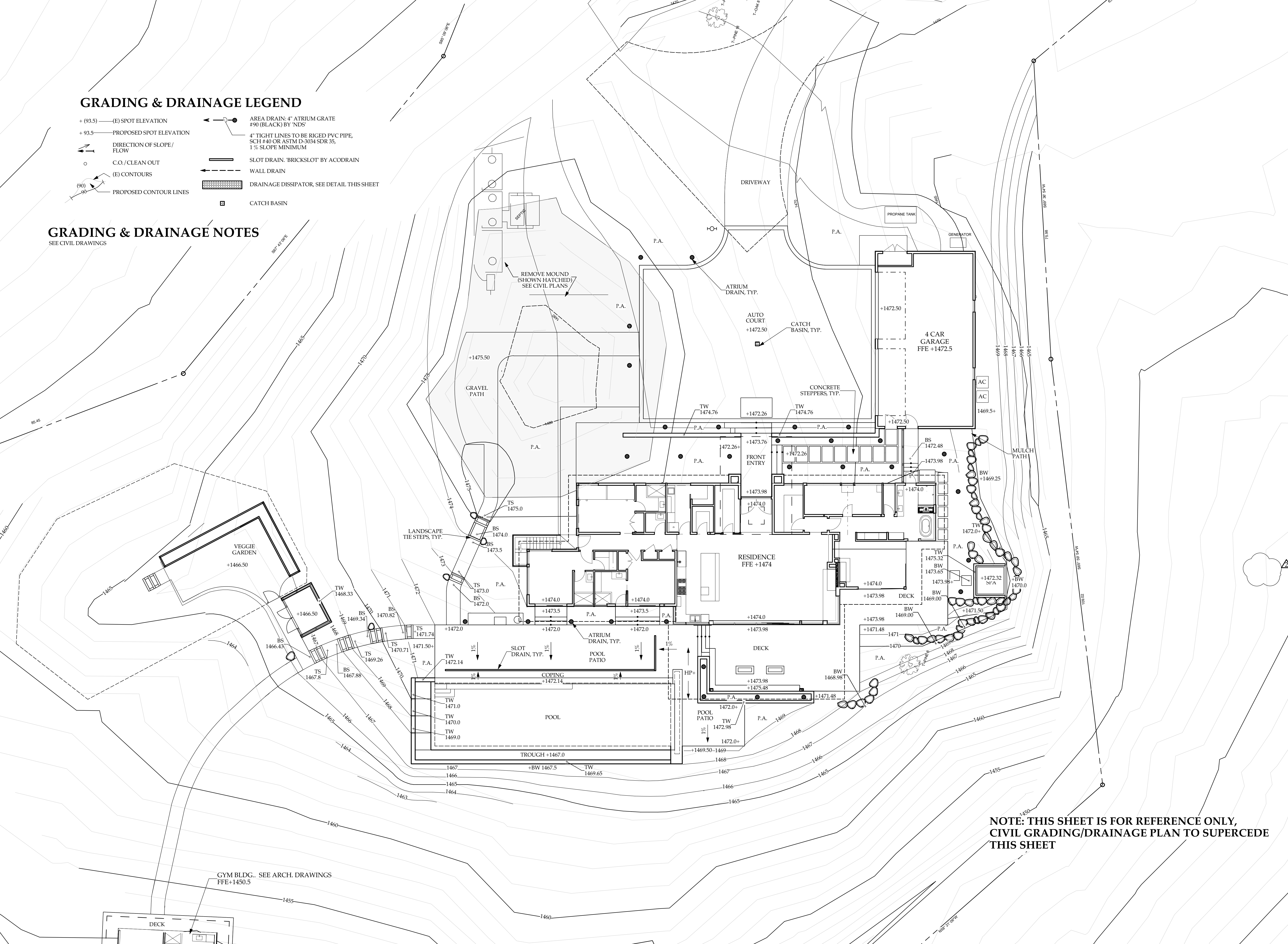


### GRADING & DRAINAGE LEGEND

- + (93.5) — (E) SPOT ELEVATION
- + 93.5 — PROPOSED SPOT ELEVATION
- — DIRECTION OF SLOPE / FLOW
- — C.O./CLEAN OUT
- (E) — (E) CONTOURS
- (90) — PROPOSED CONTOUR LINES
- — AREA DRAIN: 4" ATRIUM GRATE #90 (BLACK) BY 'NDS'
- — 4" TIGHT LINES TO BE RIGID PVC PIPE, SCH #40 OR ASTM D-3034 SDR 35, 1% SLOPE MINIMUM
- — SLOT DRAIN, 'BRICKSLOT' BY ACODRAIN
- — WALL DRAIN
- ▨ — DRAINAGE DISSIPATOR, SEE DETAIL THIS SHEET
- — CATCH BASIN

### GRADING & DRAINAGE NOTES

SEE CIVIL DRAWINGS

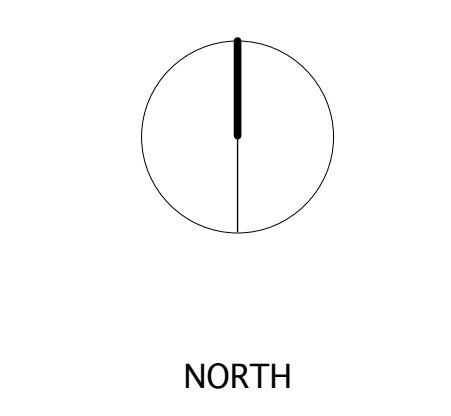


**NOTE: THIS SHEET IS FOR REFERENCE ONLY, CIVIL GRADING/DRAINAGE PLAN TO SUPERCEDE THIS SHEET**



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**GRADING/DRAINAGE PLAN**

**L-2**

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# LAYOUT NOTES

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BUILDING LAYOUT AND LOCATION IS BASED ON DRAWINGS PREPARED BY POLSKY PERLSTEIN ARCHITECTS.

THE CONTRACTOR IS TO VERIFY THE LOCATIONS OF ALL ON-SITE UTILITIES BEFORE COMMENCING WITH THEIR WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGED UTILITIES.

CONTRACTORS ARE TO EXERCISE EXTREME CARE IN BACKFILLING AND COMPACTING AND EXCAVATING OR TRENCHING IN AREAS PREVIOUSLY COMPACTED.

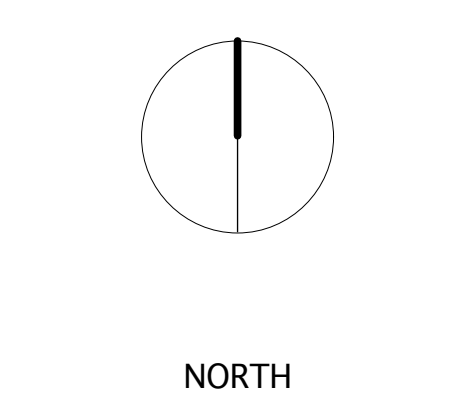
# MATERIALS LEGEND

SYMBOL	DESCRIPTION	SEE CIVIL DWGS.
1	NEW ASPHALT DRIVEWAY	SEE CIVIL DWGS.
2	FIRE TRUCK HAMMERHEAD, SHOWN DASHED	SEE CIVIL DWGS.
3	FIRE TRUCK PAVING: 3/8" CRUSHED GRAVEL PAVING, TYPE: TRINITY AVAILABLE: WHEELER ZAMARONI, SANTA ROSA CONTACT: 707-543-8400	
4	ALTO COURSE 3/8" CRUSHED GRAVEL PAVING, TYPE: TRINITY AVAILABLE: WHEELER ZAMARONI, SANTA ROSA CONTACT: 707-543-8400	
5	COLORLED CONCRETE BANDING: SIZE: 12" WIDE INTEGRAL COLOR: SILVERSMOKE 860 FINISH: LIGHT SAND, USE 'TOP COAT' SYSTEM AVAILABLE: DAVIS COLORS	
6	3/8" CRUSHED GRAVEL PAVING: TYPE: TRINITY AVAILABLE: WHEELER ZAMARONI, SANTA ROSA CONTACT: 707-543-8400	
7	COLORLED CONCRETE ENTRY STEPS: INTEGRAL COLOR: SILVERSMOKE 860 SIZE: 16" TREAD NOSE: 1/2" RADIUS FINISH: LIGHT SAND, USE 'TOP COAT' SYSTEM AVAILABLE: DAVIS COLORS	
8	FREESTANDING 30" HT. CONCRETE WALL: INTEGRAL COLOR: SILVERSMOKE 860 FINISH: 4" BOARD FORM EDGE: 1/2" CHAMFER AVAILABLE: DAVIS COLORS	
9	FRONT PORCH: FIELD PAVING: STONE: GREY/CHARCOAL LIMESTONE FINISH: BRUSH FINISH SIZE: 12"x24" PATTERN: SEE LAYOUT PLAN AVAILABLE: SPECIALTY STONE CO. CONTACT: PAT PINCKNEY 707-953-7964 GROUT: JT. SIZE: 1/8" GROUT COLOR: 78 STERLING SILVER GROUT TYPE: LATICRETE 12" CONCRETE BANDING: INTEGRAL COLOR: SILVERSMOKE 860 FINISH: LIGHT SAND, USE 'TOP COAT' SYSTEM AVAILABLE: DAVIS COLORS	
10	COLORLED CONCRETE STEPPERS: INTEGRAL COLOR: SILVERSMOKE 860 FINISH: LIGHT SAND, USE 'TOP COAT' SYSTEM AVAILABLE: DAVIS COLORS	
11	COLORLED CONCRETE PAVING: INTEGRAL COLOR: SILVERSMOKE 860 FINISH: LIGHT SAND, USE 'TOP COAT' SYSTEM AVAILABLE: DAVIS COLORS	
12	PRIVACY SCREEN BETWEEN BUILDINGS	SEE ARCH DWGS.
13	LANDSCAPE TIE STEPS W/ GRAVEL TREADS: 3/8" CRUSHED GRAVEL TYPE: TRINITY AVAILABLE: WHEELER ZAMARONI, SANTA ROSA CONTACT: 707-543-8400	
14	LANDSCAPE BOULDER PLACEMENT: TYPE: SONOMA FIELDSTONE SIZE: 18"-36" AVAIL.: JOHNSON'S ROCK, SANTA ROSA 707-584-7480	
15	OUTDOOR KITCHEN: CABINETS: NU BLACK HAMMERTONE HARDWARE: STANDARD MANUF.: DANVER KITCHENS COUNTERTOP: VEGHA, NATURAL COLLECTION MANUF.: DEKTON AVAILABLE: DCD FABRICATION, CONTACT: KATIE WAGER-SMITH 707-761-2271	
16	COLORLED CONCRETE STEPS: INTEGRAL COLOR: SILVERSMOKE 860 SIZE: 12" TREAD NOSE: 1/2" RADIUS FINISH: LIGHT SAND, USE 'TOP COAT' SYSTEM AVAILABLE: DAVIS COLORS	
17	16'x60' POOL W/ DOUBLE VANISHING EDGE: POOL DEPTH: 4'-8" PLASTER: FINISH: PRIMA STONE COLOR: 'TAHOE COAST' MANUF.: WET EDGE TECHNOLOGIES WATERLINE TILE: TYPE: P551 SAPPHIRE SIZE: CUT TO 3x9 MANUF.: DAL TILE GROUT: JT. SIZE: 1/8" COLOR: '42 PLATINUM' AVAILABLE: LATICRETE	
18	STONE POOL COPING: STONE TYPE: GREY/CHARCOAL LIMESTONE SIZE: 2"x18"x30" FINISH: 'HONED' EDGE: 'EASED' AVAILABLE: SPECIALTY STONE CO. CONTACT: PAT PINCKNEY 707-953-7964 GROUT: JT. SIZE: 1/8" GROUT COLOR: 78 STERLING SILVER AVAILABLE: LATICRETE	
19	POOL TROUGH SPILLWAY: STEPS: GREY/CHARCOAL LIMESTONE TO MATCH POOL COPING OR OPTION TO MATCH POOL TILE	
20	POOL COVER VAULT W/ REMOVABLE STONE COPING	
21	POOL TROUGH: PLASTER: FINISH: PRIMA STONE COLOR: 'TAHOE COAST' MANUF.: WET EDGE TECHNOLOGIES WATERLINE TILE: TYPE: P551 SAPPHIRE SIZE: 3x9 (CUT TO SIZE) MANUF.: DAL TILE WALL FACE: TILE TYPE: P551 SAPPHIRE SIZE: 3x9 (CUT TO SIZE) PATTERN: 'RUNNING BOND' MANUF.: DAL TILE TROUGH WALL CAP: TO MATCH POOL COPING	
22	WOOD STEPS AND HANDRAIL	SEE ARCH DWGS.
23	WOOD DECK	SEE ARCH DWGS.
24	FIREPIT, TYPICAL OF (2): TYPE: ROBATA 54 SIZE: 54"x24"x12.5" HT. COLOR/FINISH: CHARCOAL/STAINLESS FIREPIT TOPPING: DARK GREY RIVER ROCK MANUF.: www.paloform.com	
25	WOOD BENCH AT DECK EDGE	SEE ARCH DWGS.
26	RAISED CONCRETE PLANTER: INTEGRAL COLOR: SILVERSMOKE 860 FINISH: 4" BOARD FORM AVAILABLE: DAVIS COLORS	
27	BOULDER RETAINING WALL: BOULDER TYPE: SONOMA FIELDSTONE SIZE: 18"-36" PATTERN: STACK TO FIT TOGETHER / BATTER INTO HILL 15 DEGREES AVAIL.: JOHNSON'S ROCK, SANTA ROSA CONTACT: 707-584-7480	
28	STEPPING STONES: STONE TYPE: GREY/CHARCOAL LIMESTONE FINISH: BRUSH FINISH SIZE: 30"x30" AVAILABLE: SPECIALTY STONE CO.	
29	PRE-FABRICATED HOT TUB (7'x7' SHOWN): MODEL#: TBD MANUF.: HOT SPRINGS	
30	PATH TO GYM BUILDING (NO EDGING) NATURAL DIRT TRAIL CUT TO TOPOGRAPHY	
31	OUTDOOR SHOWER	SEE ARCH DWGS.
32	METAL HEADER: SIZE: 1.8"x4" COLOR: BLACK	
33	6' HT. DEER FENCE: WOOD TYPE: ROUGH CEDAR	
34	6' HT. DEER FENCE GATE: WOOD TYPE: ROUGH CEDAR	
35	POOL EQUIPMENT LOCATION & ENCLOSURE: RET'G WALL: INTEGRAL COLOR: SILVERSMOKE 860 FINISH: 6" BOARD FORM EDGE: 1/2" CHAMFER AVAILABLE: DAVIS COLORS WOOD FENCE: WOOD TYPE: ROUGH CEDAR 8X10 CONCRETE PAD (VERIFY SIZE W/ POOL BLDG.) CONC. TO MATCH POOL DECK	
36	FUTURE ACCESSIBLE PATHWAY (SHOWN DASHED): CONCRETE PAVING TO MATCH (E)	
37	RAISED GARDEN PLANTER: WOOD TYPE: ROUGH CEDAR	
38	SINGLE CANTILEVER UMBRELLA: SIZE: 10'x14' SHAPE: RECTANGULAR FABRIC COLOR: TBD POST COLOR: TBD MANUF.: TLUCCI AVAILABLE: VILLA TERRAZZA, SONOMA CONTACT: JERRILYN 707-933-8286	



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# MATERIALS/LAYOUT PLAN

# L-3

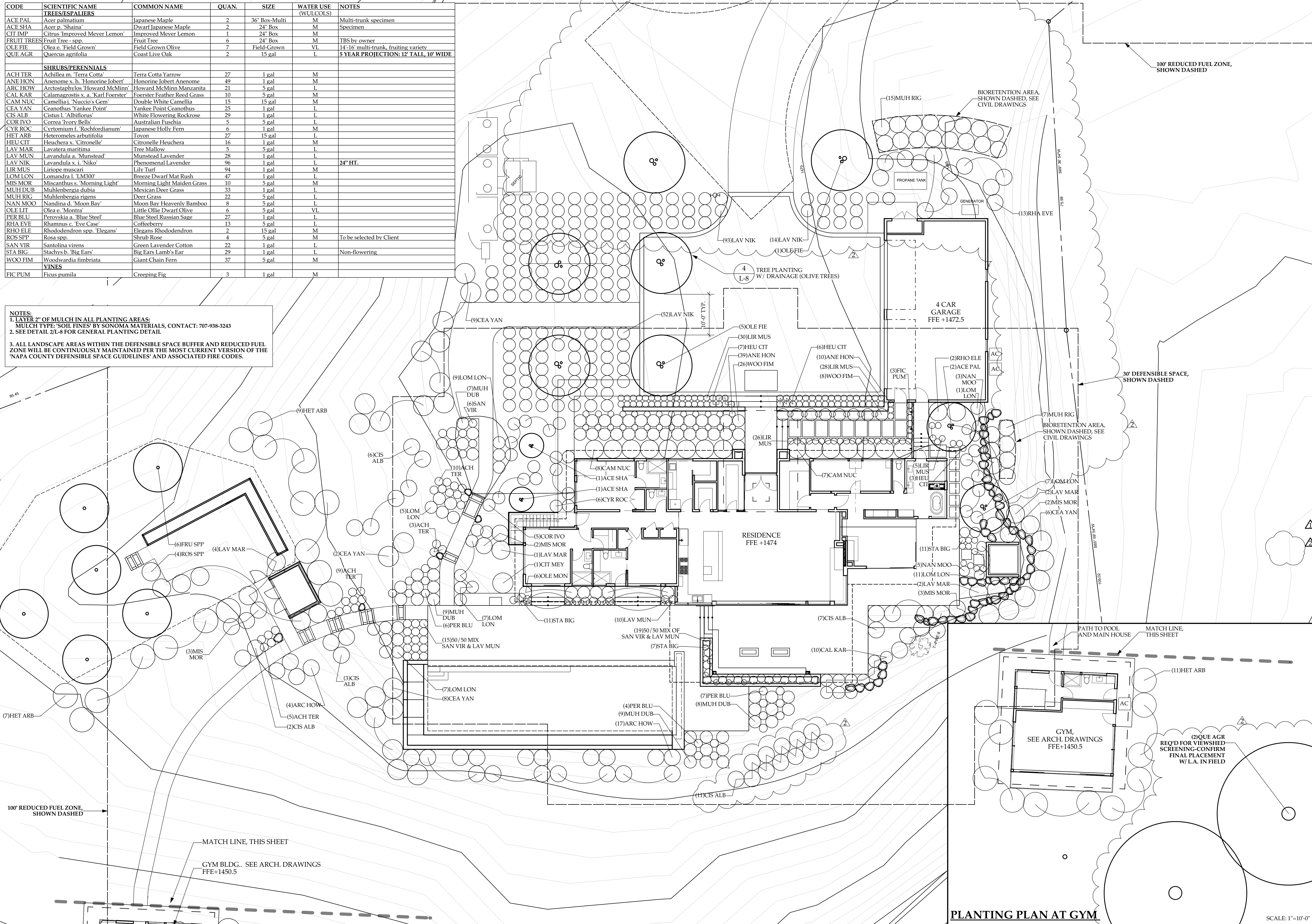
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# PLANTING LEGEND

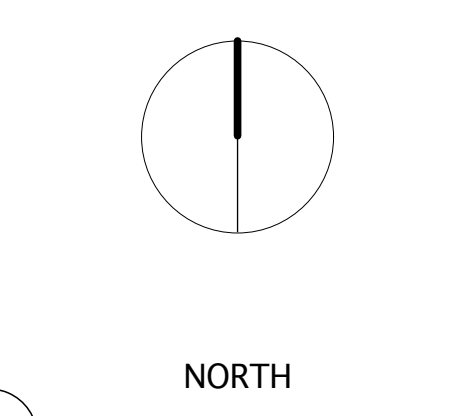
CODE	SCIENTIFIC NAME	COMMON NAME	QUAN.	SIZE	WATER USE (WUL/COLS)	NOTES
<b>TREES/ESPALEERS</b>						
ACE PAL	Acer palmatum	Japanese Maple	2	36" Box-Multi	M	Multi-trunk specimen
ACE SHA	Acer p. 'Shaina'	Dwarf Japanese Maple	2	24" Box	M	Specimen
CIT IMP	Citrus 'Improved Meyer Lemon'	Improved Meyer Lemon	1	24" Box	M	
FRUIT TREES	Fruit Tree - spp.	Fruit Tree	6	24" Box	VL	TBS by owner
OLE FIE	Olea e. 'Field Grown'	Field Grown Olive	7	Field-Grown	VL	14'-16" multi-trunk, fruiting variety
QUE AGR	Quercus agrifolia	Coast Live Oak	2	15 gal	L	5 YEAR PROJECTION: 12' TALL, 10' WIDE
<b>SHRUBS/PERENNIALS</b>						
ACH TER	Achillea m. 'Terra Cotta'	Terra Cotta Yarrow	27	1 gal	M	
JANE HON	Anemone x. b. 'Honorine Jobert'	Honorine Jobert Anemone	49	1 gal	M	
ARC HOW	Arctostaphylos 'Howard McMinn'	Howard McMinn Manzanita	21	5 gal	L	
CAL KAR	Calamagrostis x. a. 'Karl Foerster'	Foerster Feather Reed Grass	10	5 gal	M	
CAM NUC	Camellia l. 'Nuccio's Gem'	Double White Camellia	15	15 gal	M	
CEA YAN	Ceanothus 'Yankee Point'	Yankee Point Ceanothus	25	1 gal	L	
CIS ALB	Cistus l. 'Albiflorus'	White Flowering Rockrose	29	1 gal	L	
COR IVO	Correa 'Ivory Bells'	Australian Fuschia	5	5 gal	L	
CYR ROC	Cyrtomium f. 'Rochfordianum'	Japanese Holly Fern	6	1 gal	M	
HET ARB	Heteromeles arbutifolia	Toyon	27	15 gal	L	
HEU CIT	Heuchera x. 'Citronelle'	Citronelle Heuchera	16	1 gal	M	
LAV MAR	Lavatera maritima	Tree Mallow	5	5 gal	L	
LAV MUN	Lavandula a. 'Munstead'	Munstead Lavender	28	1 gal	L	
LAV NIK	Lavandula x. i. 'Niko'	Phenomenal Lavender	96	1 gal	L	24" HT.
LIR MUS	Liriope muscari	Lily Turf	94	1 gal	M	
LOM LON	Lomandra l. 'LM300'	Breeze Dwarf Mat Rush	47	1 gal	L	
MIS MOR	Miscanthus s. 'Morning Light'	Morning Light Maiden Grass	10	5 gal	M	
MUH DUB	Muhlenbergia dubia	Mexican Deer Grass	33	1 gal	L	
MUH RIG	Muhlenbergia rigens	Deer Grass	22	5 gal	L	
NAN MOO	Nandina d. 'Moon Bay'	Moon Bay Heavenly Bamboo	8	5 gal	L	
OLE LIT	Olea e. 'Montra'	Little Olive Dwarf Olive	6	5 gal	VL	
PER BLU	Perovskia a. 'Blue Steel'	Blue Steel Russian Sage	27	1 gal	L	
RHA EVE	Rhamnus c. 'Eve Case'	Coffeeberry	13	5 gal	L	
RHO ELE	Rhododendron spp. 'Elegans'	Elegans Rhododendron	2	15 gal	M	
ROS SPP	Rosa spp.	Shrub Rose	4	5 gal	M	To be selected by Client
SAN VIR	Santolina virens	Green Lavender Cotton	22	1 gal	L	
STA BIG	Stachys b. 'Big Ears'	Big Ears Lamb's Ear	29	1 gal	L	Non-flowering
WOO FIM	Woodwardia fimbriata	Giant Chain Fern	37	5 gal	M	
<b>VINES</b>						
FIC PUM	Ficus pumila	Creeping Fig	3	1 gal	M	

**NOTES:**  
 1. LAYER 2" OF MULCH IN ALL PLANTING AREAS.  
 MULCH TYPE: 'SOIL FINES' BY SONOMA MATERIALS, CONTACT: 707-938-3243  
 2. SEE DETAIL 2/L-S FOR GENERAL PLANTING DETAIL.  
 3. ALL LANDSCAPE AREAS WITHIN THE DEFENSIBLE SPACE BUFFER AND REDUCED FUEL ZONE WILL BE CONTINUOUSLY MAINTAINED PER THE MOST CURRENT VERSION OF THE 'NAPA COUNTY DEFENSIBLE SPACE GUIDELINES' AND ASSOCIATED FIRE CODES.



**KALLWEIT RESIDENCE**  
 Oakville Ridge Road  
 Napa, CA 94558  
 AP: 027-340-024

**DRAWN BY:** DD  
**SCALE:** 1"=10'-0"  
**DATE:** 02/13/2020  
**ISSUE:** VIEWSHED PROTECTION PROGRAM SUBMITTAL  
 06/26/2020 VIEWSHED PROTECTION PROGRAM RESUBMITTAL  
 11/16/2020 VIEWSHED PROTECTION PROGRAM RESUBMITTAL



## PLANTING PLAN

# L-4

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**PLANTING PLAN AT GYM**  
 SCALE: 1"=10'-0"







**COMMISSIONING AND MANAGEMENT OF SUB-SURFACE DRIP IRRIGATION SYSTEMS**

1. PRIOR TO PLANTING, CONTRACTOR SHALL PREPARE SOIL FOR PLANTING BY HAND WATERING TO BRING SOIL MOISTURE CONTENT UP TO AN IDEAL GROWING CONDITION THROUGHOUT THE INTENDED ROOT ZONE. OPERATE SUB-SURFACE DRIP SYSTEM AS NECESSARY TO MAINTAIN MOISTURE LEVEL IN SOIL. DO NOT LET SOIL DRY OUT. MOISTURE DEPLETION SHOULD NOT EXCEED 20% DEPLETION (80% OF DESIRED MOISTURE CONTENT REMAINS). CONTRACTOR SHALL MONITOR MOISTURE CONTENT TO ENSURE DESIRED MOISTURE CONTENT IS MAINTAINED WITHOUT OVER-SATURATION. USE CARE TO NOT DAMAGE SUB-SURFACE DRIP TUBING WHEN PROBING SOIL FOR MOISTURE CONTENT TESTING.

2. INSTALL TUBING ACCORDING TO SPACING SPECIFIED IN THE DRAWINGS AND DETAILS. DRIP TUBING MUST REMAIN AS CLOSE AS POSSIBLE TO THE SPACING IDENTIFIED IN THE DRAWINGS. THE GRID OF EMITTERS ARE INTENDED TO IRRIGATE THE ENTIRE PLANTED AREA (NOT INDIVIDUAL PLANTS). LIKEWISE, DO NOT MOVE PLANTS FROM THEIR DESIGNED SPACING TO BE CLOSER TO AN EMITTER. WHEN PROPERLY MANAGED, THE DRIP SYSTEM WILL PROVIDE WATER TO THE ENTIRE PLANTED AREA, CREATING AN INVITING CONDITION FOR THE ROOTS TO GROW AND THE PLANTS TO THRIVE.

**DICKSON & ASSOCIATES, INC.**  
 LANDSCAPE IRRIGATION  
 (530) 547-5515 www.dicksoninc.net  
 P.O. BOX 415  
 PALO CEDRO, CALIFORNIA 96073  
 © Dickson & Associates, Inc.



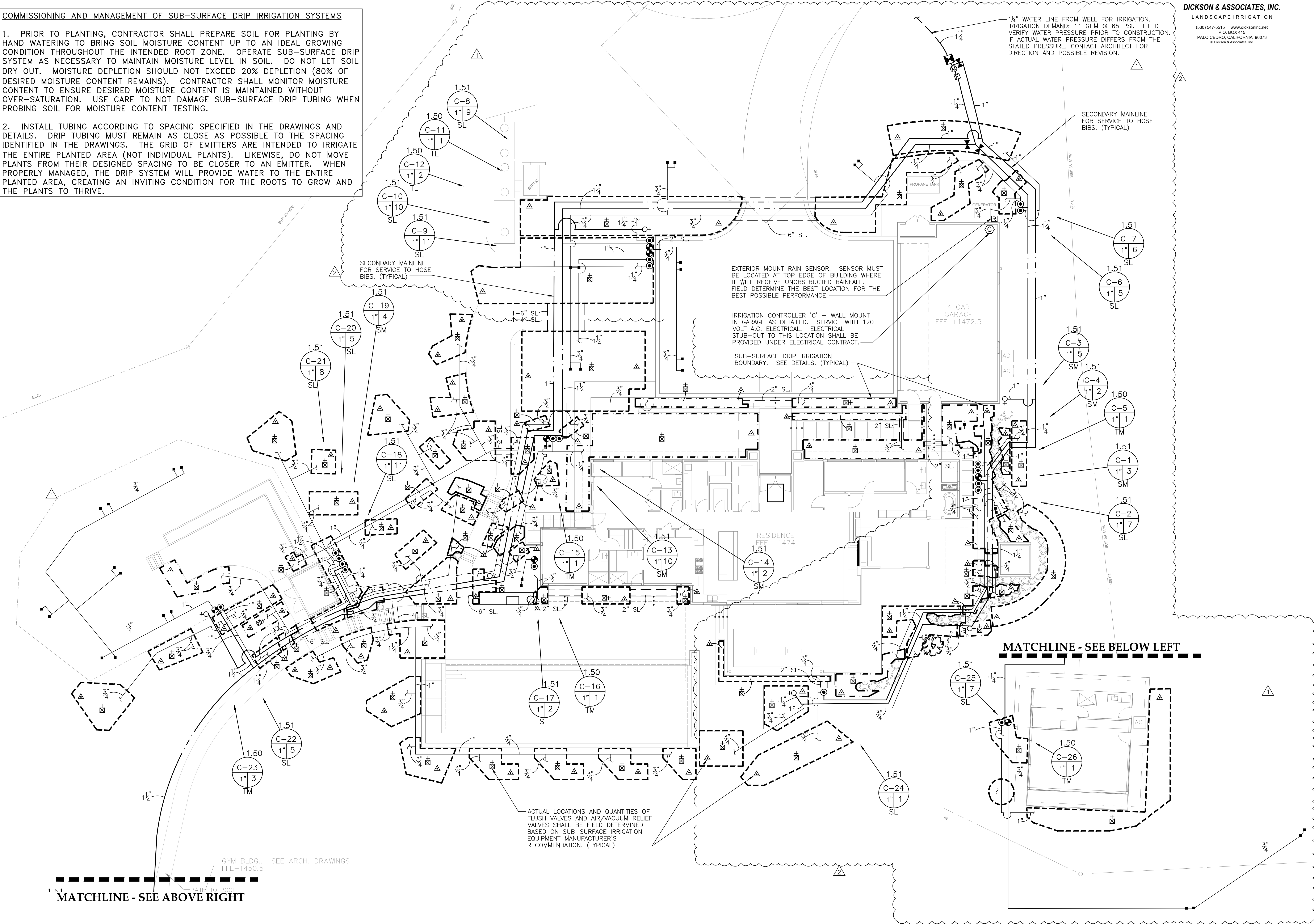
**KALLWEIT RESIDENCE**  
 Oakville Ridge Road  
 Napa, CA 94558  
 AP: 027-340-024

DRAWN BY LMD/MDD  
 SCALE 1" = 10'-0"  
 DATE ISSUE  
 06/22/2020 VIEWSHED PROTECTION PROGRAM RESUBMITTAL  
 11/11/2020 VIEWSHED PROTECTION PROGRAM RESUBMITTAL

**IRRIGATION PLAN**

**IR-1**

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1 E-4  
**MATCHLINE - SEE ABOVE RIGHT**

**MATCHLINE - SEE BELOW LEFT**

ACTUAL LOCATIONS AND QUANTITIES OF FLUSH VALVES AND AIR/VACUUM RELIEF VALVES SHALL BE FIELD DETERMINED BASED ON SUB-SURFACE IRRIGATION EQUIPMENT MANUFACTURER'S RECOMMENDATION. (TYPICAL)

EXTERIOR MOUNT RAIN SENSOR. SENSOR MUST BE LOCATED AT TOP EDGE OF BUILDING WHERE IT WILL RECEIVE UNOBSTRUCTED RAINFALL. FIELD DETERMINE THE BEST LOCATION FOR THE BEST POSSIBLE PERFORMANCE.

IRRIGATION CONTROLLER 'C' - WALL MOUNT IN GARAGE AS DETAILED. SERVICE WITH 120 VOLT A.C. ELECTRICAL. ELECTRICAL STUB-OUT TO THIS LOCATION SHALL BE PROVIDED UNDER ELECTRICAL CONTRACT.

SUB-SURFACE DRIP IRRIGATION BOUNDARY. SEE DETAILS. (TYPICAL)

1/2\" WATER LINE FROM WELL FOR IRRIGATION. IRRIGATION DEMAND: 11 GPM @ 65 PSI. FIELD VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. IF ACTUAL WATER PRESSURE DIFFERS FROM THE STATED PRESSURE, CONTACT ARCHITECT FOR DIRECTION AND POSSIBLE REVISION.

SECONDARY MAINLINE FOR SERVICE TO HOSE BIBS. (TYPICAL)

GYM BLDG., SEE ARCH. DRAWINGS  
 FFE+1450.5



# IRRIGATION WATERING SCHEDULES

MP ROTATOR SPRAY IRRIGATION FOR LOW WATER-USE GRASSPAVE AREAS														
SPRINKLER MANUFACTURER		HUNTER		LOCATION:		NAPA, CALIFORNIA								
PRECIPITATION RATE (INCHES/HOUR):		0.80		HEAD SPACING:		VARIES								
IRRIGATION SYSTEM EFFICIENCY		0.81		HEAD GPM:		VARIES								
PLANT FACTOR:		0.30												
YEAR 2 REDUCTION AMOUNT:		-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES												
MONTH:		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES):		1.30	1.70	2.80	3.90	5.10	6.00	7.10	6.10	4.80	3.10	1.50	0.90	44.30
ETO PER WEEK (INCHES):		0.300	0.393	0.647	0.901	1.178	1.386	1.640	1.409	1.109	0.716	0.346	0.208	
APPLIED ETO PER WEEK (INCHES):		0.111	0.145	0.240	0.334	0.436	0.513	0.607	0.522	0.411	0.265	0.128	0.077	
MINUTES OF WATER PER WEEK:		YEAR 1	8	11	18	25	33	38	46	39	31	20	10	6
DAYS PER WEEK:		YEAR 2	8	10	16	23	29	35	41	35	28	18	9	5
MINUTES OF WATER PER DAY:		YEAR 1	1	1	1	2	3	3	3	3	1	1	1	1
CYCLES PER DAY:		YEAR 2	1	1	1	2	3	3	3	3	1	1	1	1
MINUTES PER CYCLE:		YEAR 1	8	11	18	13	11	13	15	13	10	20	10	6
		YEAR 2	8	10	16	11	10	12	14	12	9	18	9	5

SUB-SURFACE DRIP IRRIGATION FOR LOW WATER-USE SHRUB/GROUNDCOVER AREAS														
SPRINKLER MANUFACTURER		RAIN BIRD		LOCATION:		NAPA, CALIFORNIA								
PRECIPITATION RATE (INCHES/HOUR):		1.51		EMITTER SPACING:		12" O.C.								
IRRIGATION SYSTEM EFFICIENCY		0.81		EMITTER FLOW:		0.92 GPH								
PLANT FACTOR:		0.30												
YEAR 2 REDUCTION AMOUNT:		-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES												
MONTH:		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES):		1.30	1.70	2.80	3.90	5.10	6.00	7.10	6.10	4.80	3.10	1.50	0.90	44.30
ETO PER WEEK (INCHES):		0.300	0.393	0.647	0.901	1.178	1.386	1.640	1.409	1.109	0.716	0.346	0.208	
APPLIED ETO PER WEEK (INCHES):		0.111	0.145	0.240	0.334	0.436	0.513	0.607	0.522	0.411	0.265	0.128	0.077	
MINUTES OF WATER PER WEEK:		YEAR 1	4	6	10	13	17	20	24	21	16	11	5	3
DAYS PER WEEK:		YEAR 2	4	5	9	12	16	18	22	19	15	9	5	3
MINUTES OF WATER PER DAY:		YEAR 1	1	1	1	2	3	3	3	3	2	1	1	1
CYCLES PER DAY:		YEAR 2	1	1	1	1	1	1	1	1	1	1	1	1
MINUTES PER CYCLE:		YEAR 1	4	6	5	4	6	7	8	7	5	5	3	3
		YEAR 2	4	5	4	4	5	6	7	6	5	5	3	3

SUB-SURFACE DRIP IRRIGATION FOR MODERATE WATER-USE SHRUB/GROUNDCOVER AREAS														
SPRINKLER MANUFACTURER		RAIN BIRD		LOCATION:		NAPA, CALIFORNIA								
PRECIPITATION RATE (INCHES/HOUR):		1.51		EMITTER SPACING:		12" O.C.								
IRRIGATION SYSTEM EFFICIENCY		0.81		EMITTER FLOW:		0.92 GPH								
PLANT FACTOR:		0.50												
YEAR 2 REDUCTION AMOUNT:		-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES												
MONTH:		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES):		1.30	1.70	2.80	3.90	5.10	6.00	7.10	6.10	4.80	3.10	1.50	0.90	44.30
ETO PER WEEK (INCHES):		0.300	0.393	0.647	0.901	1.178	1.386	1.640	1.409	1.109	0.716	0.346	0.208	
APPLIED ETO PER WEEK (INCHES):		0.185	0.242	0.399	0.556	0.727	0.855	1.012	0.870	0.684	0.442	0.214	0.128	
MINUTES OF WATER PER WEEK:		YEAR 1	7	10	16	22	29	34	40	35	27	18	8	5
DAYS PER WEEK:		YEAR 2	7	9	14	20	26	31	36	31	24	16	8	5
MINUTES OF WATER PER DAY:		YEAR 1	1	1	1	2	3	4	4	4	3	2	1	1
CYCLES PER DAY:		YEAR 2	1	1	1	1	1	1	1	1	1	1	1	1
MINUTES PER CYCLE:		YEAR 1	7	10	8	7	7	8	10	9	9	8	5	3
		YEAR 2	7	9	7	7	7	8	9	8	8	8	5	3

BUBBLER IRRIGATION FOR LOW WATER-USE TREES														
SPRINKLER MANUFACTURER		RAIN BIRD		LOCATION:		NAPA, CALIFORNIA								
PRECIPITATION RATE (INCHES/HOUR):		1.50		HEAD SPACING:		VARIES								
IRRIGATION SYSTEM EFFICIENCY		0.81		HEAD GPM:		2 x 0.25								
PLANT FACTOR:		0.30												
YEAR 2 REDUCTION AMOUNT:		-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES												
MONTH:		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES):		1.30	1.70	2.80	3.90	5.10	6.00	7.10	6.10	4.80	3.10	1.50	0.90	44.30
ETO PER WEEK (INCHES):		0.300	0.393	0.647	0.901	1.178	1.386	1.640	1.409	1.109	0.716	0.346	0.208	
APPLIED ETO PER WEEK (INCHES):		0.111	0.145	0.240	0.334	0.436	0.513	0.607	0.522	0.411	0.265	0.128	0.077	
MINUTES OF WATER PER WEEK:		YEAR 1	4	6	10	13	17	21	24	21	16	11	5	3
DAYS PER WEEK:		YEAR 2	4	5	9	12	16	18	22	19	15	10	5	3
MINUTES OF WATER PER DAY:		YEAR 1	1	1	1	1	1	1	1	1	1	1	1	1
CYCLES PER DAY:		YEAR 2	1	1	1	1	1	1	1	1	1	1	1	1
MINUTES PER CYCLE:		YEAR 1	4	6	10	13	17	21	24	21	16	11	5	3
		YEAR 2	4	5	9	12	16	18	22	19	15	10	5	3

BUBBLER IRRIGATION FOR MODERATE WATER-USE TREES														
SPRINKLER MANUFACTURER		RAIN BIRD		LOCATION:		NAPA, CALIFORNIA								
PRECIPITATION RATE (INCHES/HOUR):		1.50		HEAD SPACING:		VARIES								
IRRIGATION SYSTEM EFFICIENCY		0.81		HEAD GPM:		2 x 0.25								
PLANT FACTOR:		0.50												
YEAR 2 REDUCTION AMOUNT:		-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES												
MONTH:		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES):		1.30	1.70	2.80	3.90	5.10	6.00	7.10	6.10	4.80	3.10	1.50	0.90	44.30
ETO PER WEEK (INCHES):		0.300	0.393	0.647	0.901	1.178	1.386	1.640	1.409	1.109	0.716	0.346	0.208	
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MINUTES OF WATER PER WEEK:		YEAR 1	7	10	16	22	29	34	40	35	27	18	9	5
DAYS PER WEEK:		YEAR 2	7	9	14	20	26	31	36	31	25	16	8	5
MINUTES OF WATER PER DAY:		YEAR 1	1	1	1	1	2	2	2	2	1	1	1	1
CYCLES PER DAY:		YEAR 2	1	1	1	1	2	2	2	2	1	1	1	1
MINUTES PER CYCLE:		YEAR 1	7	10	16	22	15	17	20	17	14	18	9	5
		YEAR 2	7	9	14	20	13	15	18	16	12	16	8	5
		YEAR 1	1	1	1	1	1	1	1	1	1	1	1	1
		YEAR 2	1	1	1	1	1	1	1	1	1	1	1	1
		YEAR 1	7	10	16	22	15	17	20	17	14	18	9	5
		YEAR 2	7	9	14	20	13	15	18	16	12	16	8	5

NOTES: CHARTS ARE INTENDED TO BE USED AS A GUIDELINE ONLY AND INDICATE APPROXIMATE RUN TIMES (IN MINUTES) FOR EACH ZONE BASED ON ESTIMATED WEEKLY WATER REQUIREMENTS FOR ESTABLISHED PLANT MATERIAL. THE FIGURES SHOWN IN THIS SCHEDULE ARE APPROXIMATE AND HAVE BEEN DEVELOPED FROM LOCAL CURRENT AVERAGES FOR EVAPOTRANSPIRATION, AND REFLECT MAXIMUM IRRIGATION REQUIREMENTS OF THE PLANT MATERIAL BASED ON PLANT TYPE AND SPACING. ACTUAL RUN TIMES MAY BE DIFFERENT DEPENDING ON A VARIETY OF FACTORS INCLUDING TOPOGRAPHY, SOIL STRUCTURE, SUN AND WIND EXPOSURE, WEATHER, ACTUAL PLANT WATER REQUIREMENTS, ETC.

# IRRIGATION NOTES

- THESE IRRIGATION DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR CLARITY ONLY AND ARE TO BE INSTALLED WITHIN PLANTING AREAS WHERE POSSIBLE. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC., WHICH MAY BE REQUIRED. THE CONTRACTOR IS REQUIRED TO INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF THE CONTRACT WORK INCLUDING OBSTRUCTIONS, GRADE DIFFERENCES OR AREA DIMENSIONAL DIFFERENCES WHICH MAY NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. IN THE EVENT OF FIELD DIFFERENCES, THE CONTRACTOR IS REQUIRED TO PLAN THE INSTALLATION WORK ACCORDINGLY BY NOTIFICATION AND APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE AND ACCORDING TO THE CONTRACT SPECIFICATION. THE CONTRACTOR IS ALSO REQUIRED TO NOTIFY AND COORDINATE IRRIGATION CONTRACT WORK WITH ALL APPLICABLE CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE, CONDUIT OR SLEEVES THROUGH OR UNDER WALLS, ROADWAYS, PAVING, STRUCTURE, ETC., BEFORE CONSTRUCTION. IN THE EVENT THESE NOTIFICATIONS ARE NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL REQUIRED REVISIONS.
- THE CONTRACTOR SHALL EXERCISE CARE IN LOCATING PIPING AS TO NOT CONFLICT WITH OTHER UTILITIES. DO NOT INSTALL IRRIGATION PIPING PARALLEL TO AND DIRECTLY OVER OTHER UTILITIES.
- THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH.
- IT IS THE RESPONSIBILITY OF THE LANDSCAPE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLER TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL WEATHER CHANGES, PLANT MATERIAL WATER REQUIREMENTS, MOUNDS AND SLOPES, SUN, SHADE, AND WIND EXPOSURES.
- AT THE END OF THE REQUIRED MAINTENANCE PERIOD OF THE CONTRACTOR, THE OWNER SHALL PROVIDE REGULAR MAINTENANCE OF THE IRRIGATION SYSTEM TO ENSURE THE EFFICIENT USE OF WATER. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO CHECKING, ADJUSTING, AND REPAIRING IRRIGATION EQUIPMENT AND CONTROL SYSTEM.
- 120 VOLT A.C. (2.5 AMP DEMAND) ELECTRICAL SERVICE TO IRRIGATION CONTROLLER LOCATION TO BE PROVIDED UNDER ELECTRICAL CONTRACT WORK. IRRIGATION CONTRACTOR TO MAKE FINAL CONNECTION FROM ELECTRICAL STUB-OUT TO CONTROLLER AND PROVIDE PROPER GROUNDING PER CONTROLLER MANUFACTURER'S INSTRUCTIONS.
- IRRIGATION CONTROLLER TO HAVE ITS OWN INDEPENDENT 24 VOLT COMMON GROUND WIRE.
- CONTRACTOR SHALL PROGRAM THE IRRIGATION CONTROLLER TO PROVIDE IRRIGATION TO ALL PLANTING WITHIN THE ALLOWED WATERING WINDOW OF TIME AS REQUIRED. THE CONTRACTOR SHALL CREATE CONTROLLER PROGRAMING THAT WILL NOT EXCEED THE MAXIMUM GALLONS PER MINUTE FLOW RATE STATED ON THE DRAWINGS, AND NOT EXCEED THE CAPACITY OF ANY MAINLINE PIPING.
- IRRIGATION CONTROL WIRES SHALL BE COPPER WITH U.L. APPROVAL FOR DIRECT BURIAL IN GROUND, SIZE #14-1. COMMON GROUND WIRE SHALL HAVE WHITE INSULATING JACKET. CONTROL WIRE SHALL HAVE INSULATING JACKET OF COLOR OTHER THAN WHITE. SPLICE SHALL BE MADE WITH 3M-DBR/Y-6 SEAL PACKS.
- FLOW SENSOR CABLE SHALL BE A SOLID COPPER SHIELDED PAIR CABLE, SIZE #16. NO SPLICES ALLOWED.
- INSTALL SPARE CONTROL WIRE OF A DIFFERENT COLOR ALONG THE ENTIRE MAINLINE. LOOP 36" EXCESS WIRE INTO EACH SINGLE VALVE BOX AND INTO ONE VALVE BOX IN EACH GROUP OF VALVES. MINIMUM OF ONE SPARE WIRE PER CONTROLLER.
- SPLICING OF 24 VOLT WIRES IS NOT PERMITTED EXCEPT IN VALVE BOXES. SEAL WIRE SPLICES WITH 3M-DBR/Y-6 SPLICE SEALING DEVICES OF SIZE COMPATIBLE WITH WIRE SIZE. LEAVE A 36" LONG, 1" DIAMETER COIL OF EXCESS WIRE AT EACH SPLICE AND A 36" LONG EXPANSION LOOP EVERY 100 FEET ALONG WIRE RUN. TAPE WIRES TOGETHER EVERY TEN FEET. TAPING WIRES IS NOT REQUIRED INSIDE SLEEVES.
- PLASTIC VALVE BOXES ARE TO BE BLACK IN COLOR WITH BOLT DOWN, NON-HINGED COVER MARKED "IRRIGATION". BOX BODY SHALL HAVE KNOCK OUTS. MANUFACTURER SHALL BE RAIN BIRD.
- VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. INSTALL IN GROUND COVER/SHRUB AREAS WHERE POSSIBLE (NOT IN LAWN AREA).
- THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVER SPRAY ONTO LAWNS, ROADWAYS, AND/OR BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT THE EXISTING SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM.
- ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- ALL IRRIGATION PIPING THAT IS NOT A DIRECT LINE TO TREES SHALL BE A MINIMUM FIVE (5) FEET FROM CENTER OF TREE.
- LOCATE BUBBLERS ON UP-HILL SIDE OF TREE.
- INSTALL A FLO CONTROL (NDS) 1002 SERIES SPRING LOADED CHECK VALVE BELOW THOSE BUBBLERS WHERE LOW HEAD DRAINAGE WILL CAUSE EROSION AND/OR EXCESS WATER.
- WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO TREES AND TREE ROOTS. EXCAVATION IN AREAS WHERE TWO (2) INCH AND LARGER ROOTS OCCUR SHALL BE DONE BY HAND. TRENCHES ADJACENT TO TREE SHOULD BE CLOSED WITHIN TWENTY-FOUR (24) HOURS; AND WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE SHALL BE KEPT SHADED WITH BURLAP OR CANVAS.
- IRRIGATION CONTRACTOR TO NOTIFY ALL LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.
- PRESSURE TEST PROCEDURE. THE CONTRACTOR SHALL:
  - NOTIFY ARCHITECT AT LEAST THREE (3) DAY IN ADVANCE OF TESTING.
  - PERFORM TESTING AT HIS OWN EXPENSE.
  - CENTER LOAD PIPING WITH SMALL AMOUNT OF BACKFILL TO PREVENT ARCHING OR SLIPPING UNDER PRESSURE. NO FITTING SHALL BE COVERED.
  - APPLY THE FOLLOWING TESTS AFTER WELD PLASTIC PIPE JOINTS HAVE CURED AT LEAST 24 HOURS.
    - TEST LINE (CONSTANT PRESSURE) AND QUICK COUPLER LINE HYDROSTATICALLY AT 125 PSI MINIMUM. LINES WILL BE APPROVED IF TEST PRESSURE IS MAINTAINED FOR SIX (6) HOURS. THE LINE WILL BE APPROVED OR NOT APPROVED AS SUCH RESULTS MAY INDICATE. THE CONTRACTOR SHALL MAKE TESTS AND REPAIRS AS NECESSARY UNTIL TEST CONDITIONS ARE MET.
    - TEST RCV CONTROLLED LATERAL LINES WITH WATER AT LINE PRESSURE AND VISUALLY INSPECT FOR LEAKS. RETEST AFTER CORRECTING DEFECTS.

- THE SPRINKLER SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.
- IRRIGATION DEMAND: 13 GPM AT 65 PSI STATIC PRESSURE AT IRRIGATION POINT OF CONNECTION. FIELD VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. IF ACTUAL WATER PRESSURE DIFFERS FROM THE STATED PRESSURE CONTACT ARCHITECT FOR DIRECTION AND POSSIBLE REVISION.
- PIPE THREAD SEALANT COMPOUND SHALL BE RECTOR SEAL T+2, CHRISTY'S ULTRA SEAL, OR APPROVED EQUAL.
- SUB-SURFACE DRIP IRRIGATION AREAS MUST BE HAND WATERED TO INCREASE SOIL MOISTURE PRIOR TO PLANTING. AFTER PLANTING, THE SUB-SURFACE DRIP SYSTEMS MUST BE OPERATED ON A FREQUENT BASIS TO MAINTAIN SOIL MOISTURE CONTENT. DO NOT ALLOW SOIL TO DRY OUT. MAINTENANCE ROUTINE SHALL INCLUDE PROBING SOIL TO MONITOR MOISTURE CONTENT. USE CAUTION WHEN PROBING SOIL. DO NOT DAMAGE SUB-SURFACE DRIP TUBING.
- RECORD DRAWINGS:
  - THE CONTRACTOR SHALL MAINTAIN IN GOOD ORDER IN THE FIELD OFFICE ONE COMPLETE SET OF BLACK LINE PRINTS OF ALL SPRINKLER DRAWINGS WHICH FORM A PART OF THE CONTRACT, SHOWING ALL WATER LINES, SPRINKLERS, VALVES, CONTROLLERS AND STUB-OUTS. IN THE EVENT ANY WORK IS NOT INSTALLED AS INDICATED ON THE DRAWINGS, SUCH WORK SHALL BE CORRECTED AND DIMENSIONED ACCURATELY FROM THE BUILDING WALLS.
  - ALL UNDERGROUND STUB-OUTS FOR FUTURE CONNECTIONS AND VALVES SHALL BE LOCATED AND DIMENSIONED ACCURATELY FROM BUILDING WALLS ON ALL RECORD DRAWINGS.
  - UPON COMPLETION OF THE WORK, OBTAIN REPRODUCIBLE PRINTS FROM ARCHITECT AND NEATLY CORRECT THE PRINTS TO SHOW THE AS-BUILT CONDITIONS.
- FINE TUNE IRRIGATION SYSTEM TO PROVIDE COMPLETE AND UNIFORM COVERAGE OF THE LANDSCAPE WHILE AVOIDING RUNOFF OF WATER ONTO NON-IRRIGATED AREAS, PAVED AND OTHERWISE. THIS INCLUDES PROGRAMMING THE CONTROLLER RUN TIMES FOR OPTIMIZING SOIL INFILTRATION WITH OUT PUDDLING OR RUNOFF.
- WARRANTY:
  - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FILL AND REPAIR ALL NECESSARY PLANTING DUE TO THE SETTLEMENT OF IRRIGATION TRENCHES FOR ONE YEAR FOLLOWING COMPLETION AND ACCEPTANCE OF THE JOB.
  - THE CONTRACTOR SHALL ALSO WARRANTY ALL MATERIALS, EQUIPMENT AND WORKMANSHIP FURNISHED BY HIM TO BE FREE OF ALL DEFECTS OF WORKMANSHIP AND MATERIALS, AND SHALL AGREE TO REPLACE AT HIS EXPENSE, AT ANY TIME WITHIN ONE YEAR AFTER INSTALLATION IS ACCEPTED, ANY AND ALL DEFECTIVE PARTS THAT MAY BE FOUND.

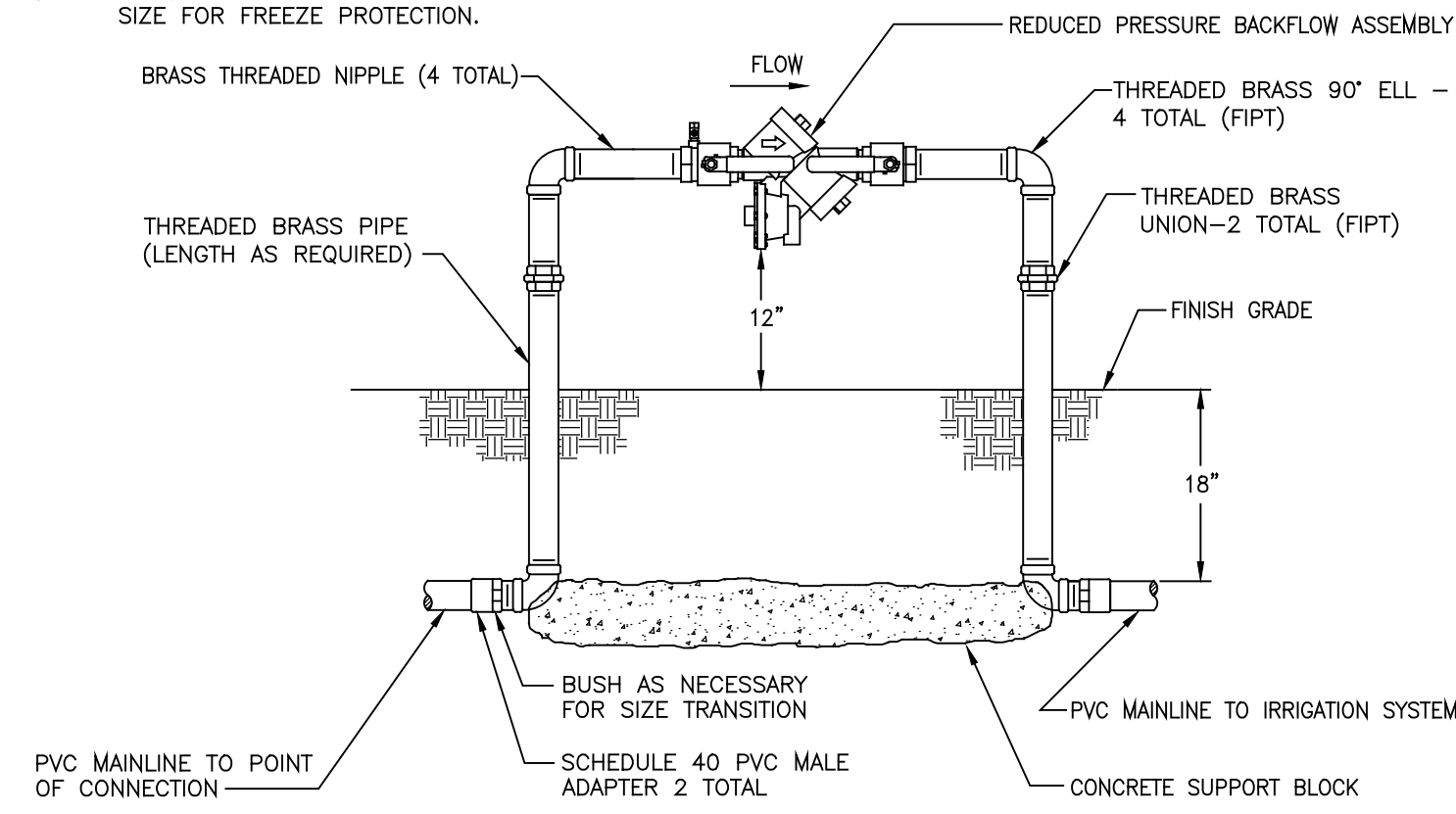
# WATER EFFICIENT LANDSCAPE WORKSHEET

This worksheet is filled out for the project and it is a required element of the Landscape Documentation Package.

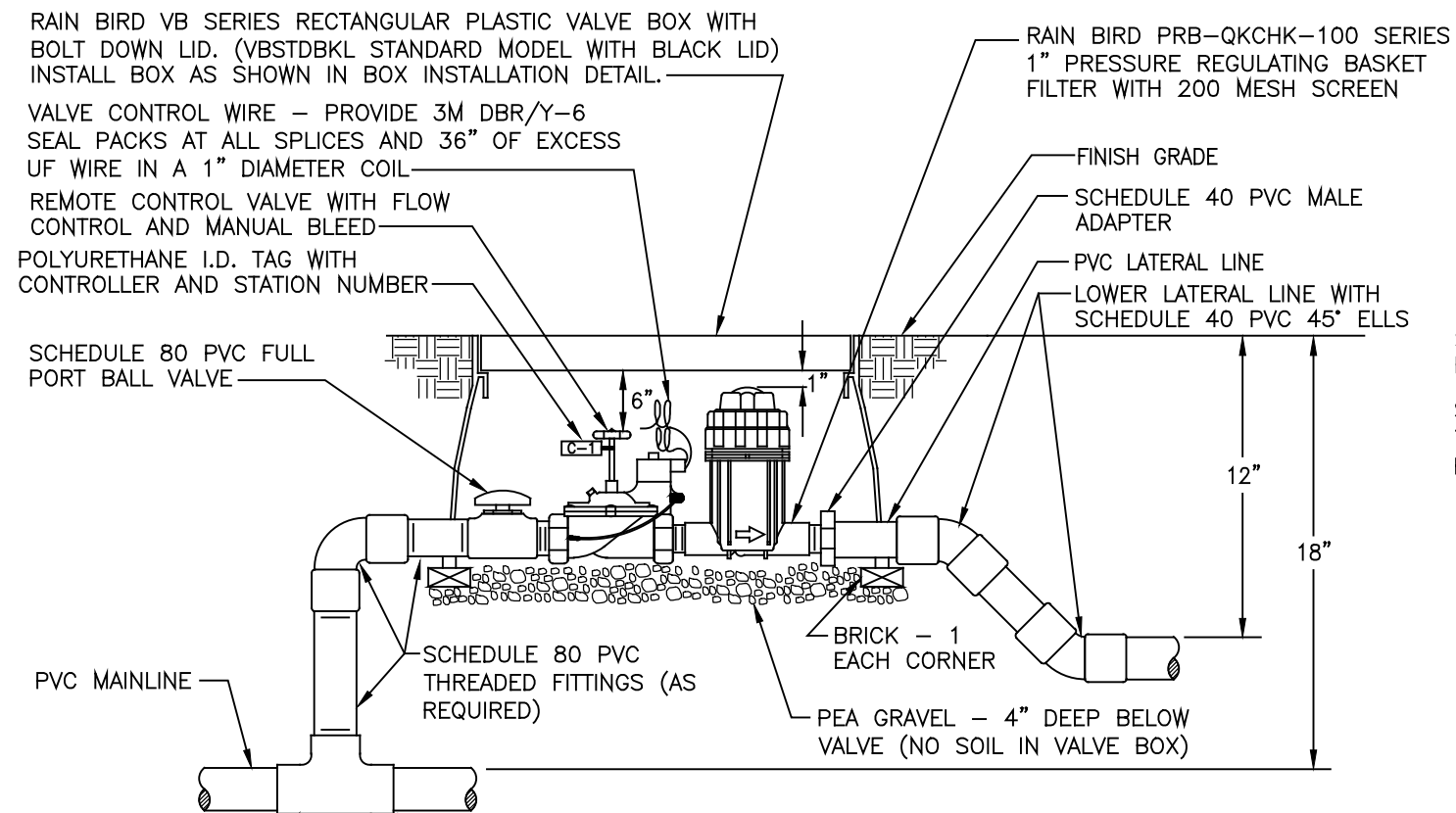
Hydrozone #	Plant Factor (PF)	Irrigation Method <sup>a</sup>	Irrigation Efficiency (IE) <sup>b</sup>	ETAF (PF)(IE)	Landscape Area (sq. ft.)	ETAF x Area	Estimated Total Water Use (ETWU) <sup>c</sup>	
<b>Regular Landscape Areas</b>								
Low Water-Use Plants	0.30	Drip	0.81	0.37	5,907	2,186	60,029	
Moderate Water-Use Plants	0.50	Drip	0.81	0.62	1,413	876	24,062	
High Water-Use Trees	0.80	Drip	0.81	0.99	32	32	870	
Pool/Spa	0.80	N/A	1.00	0.80	1006	805	22,105	
					Totals	8,358	3,898	107,066
<b>Special Landscape Areas</b>								
Fruit Trees					1	160	160	4,395
					Totals	(C)	(D)	4,395
					Totals	160	160	4,395
					ETWU Total			111,461
					Maximum Allowed Water Allowance (MAWA) <sup>d</sup>			130,653
<b>ETAF Calculations</b>								
				Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.				
Regular Landscape Areas		Total ETAF x Area (B)		3,898				
		Total Area (A)		8,358				
		Average ETAF		0.47				
<b>All Landscape Areas</b>								



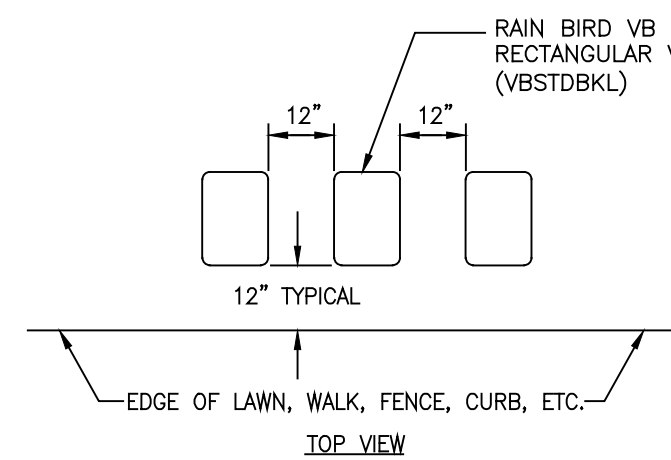
NOTE: PROVIDE POLAR PARKA OF APPROPRIATE SIZE FOR FREEZE PROTECTION.



**REDUCED PRESSURE BACKFLOW ASSEMBLY**  
NOT TO SCALE

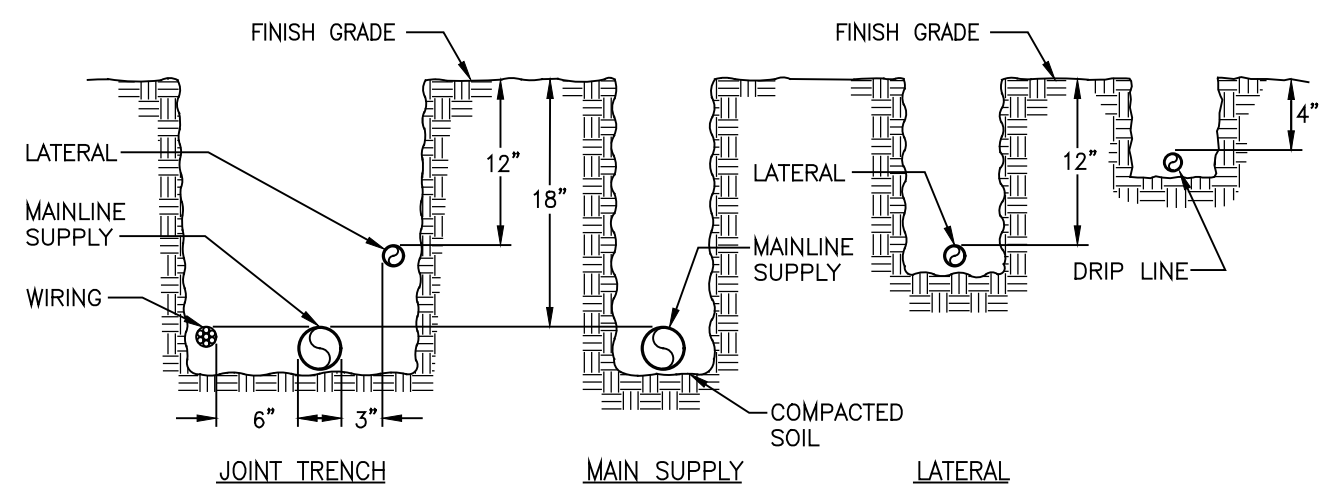


**REMOTE CONTROL VALVE WITH FILTER & PRESSURE REGULATION FOR DRIP**  
NOT TO SCALE



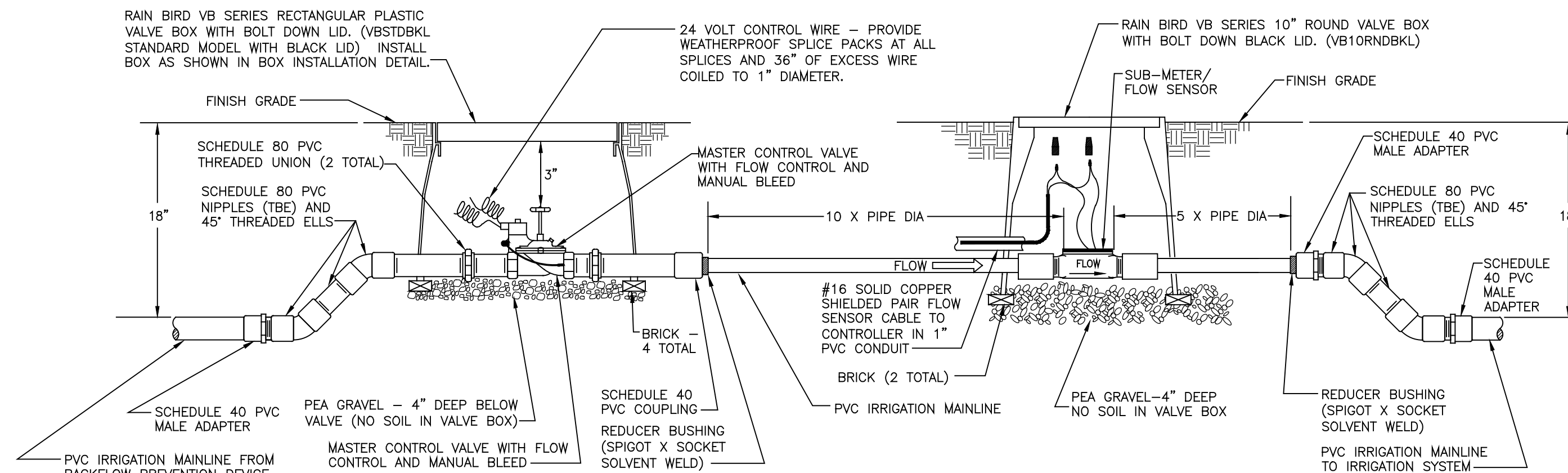
- CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.
- SET BOXES 1" ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FINISH GRADE IN TURF AREA.
- SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN ONLY IF GROUND COVER DOES NOT EXIST ADJACENT TO LAWN.
- SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF LAWN, WALK, FENCE, CURB, ETC.
- AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
- INSTALL EXTENSION BY VALVE BOX MANUFACTURER AS REQUIRED TO COMPLETELY ENCLOSE ASSEMBLY FOR EASY ACCESS.

**VALVE BOX INSTALLATION**  
NOT TO SCALE

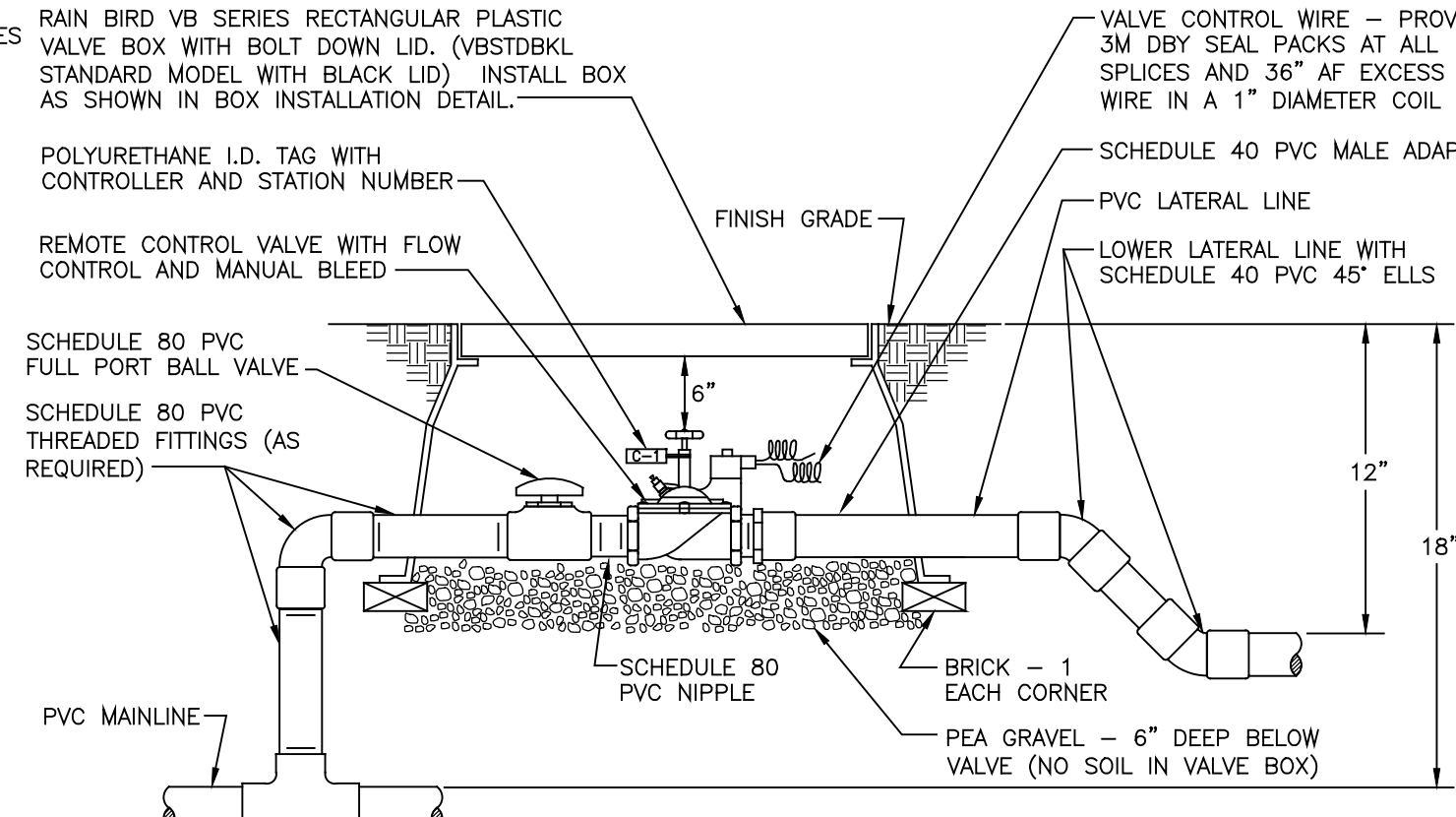


- NOTES:
- ALL PLASTIC PIPING SHALL BE INSTALLED IN THE TRENCH IN A SERPENTINE MANNER AS PER THE MANUFACTURER'S SPECIFICATIONS.
  - ALL SUPPLY LINES TO BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.
  - TAPE AND BUNDLE TUBING OR WIRING AT 10 FEET INTERVALS.
  - ALL 120 VOLT WIRING IN CONDUIT TO BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES.
  - BACKFILL MATERIAL SHALL BE THE EARTH EXCAVATED FROM THE TRENCHES, FREE FROM ROCKS, CONCRETE CHUNKS, AND OTHER FOREIGN OR COARSE MATERIALS. CAREFULLY SELECT BACKFILL THAT IS TO BE PLACED NEXT TO PLASTIC PIPE TO AVOID ANY SHARP OBJECTS WHICH MAY DAMAGE THE PIPE.

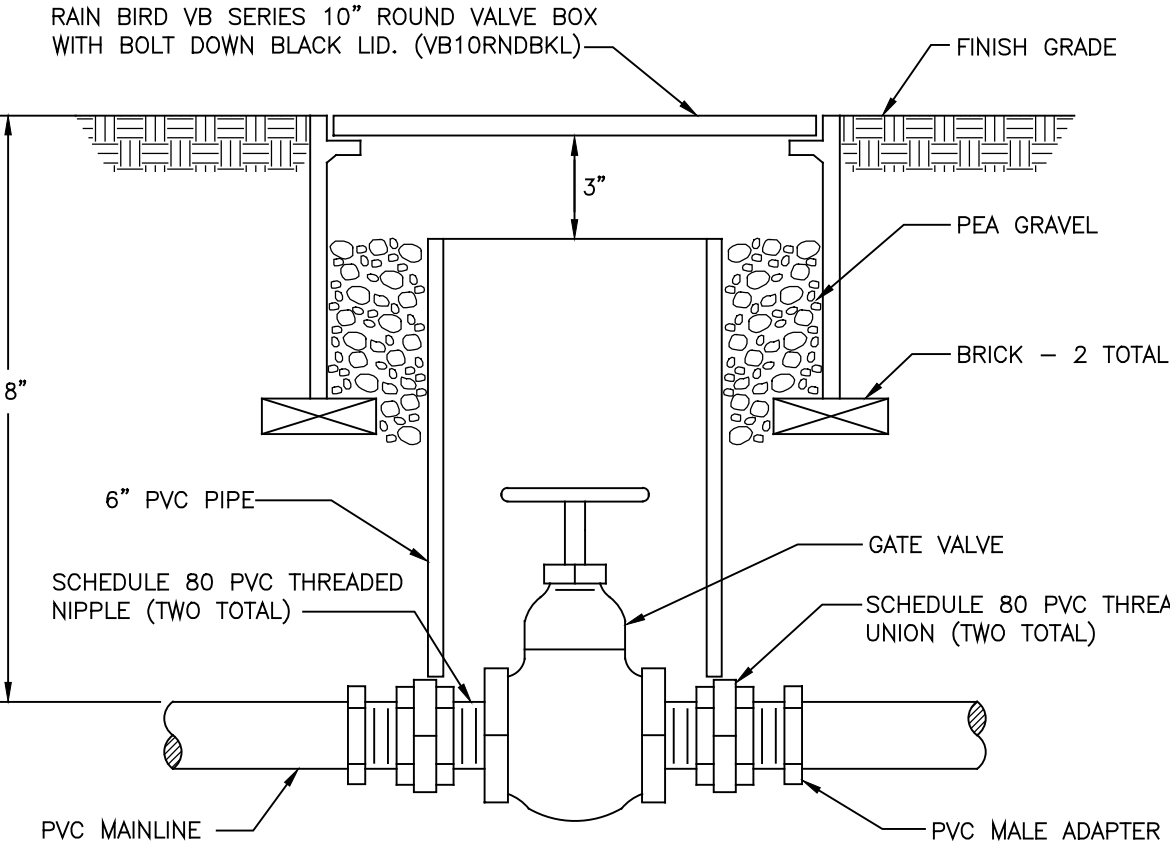
**TRENCHING DETAIL**  
NOT TO SCALE



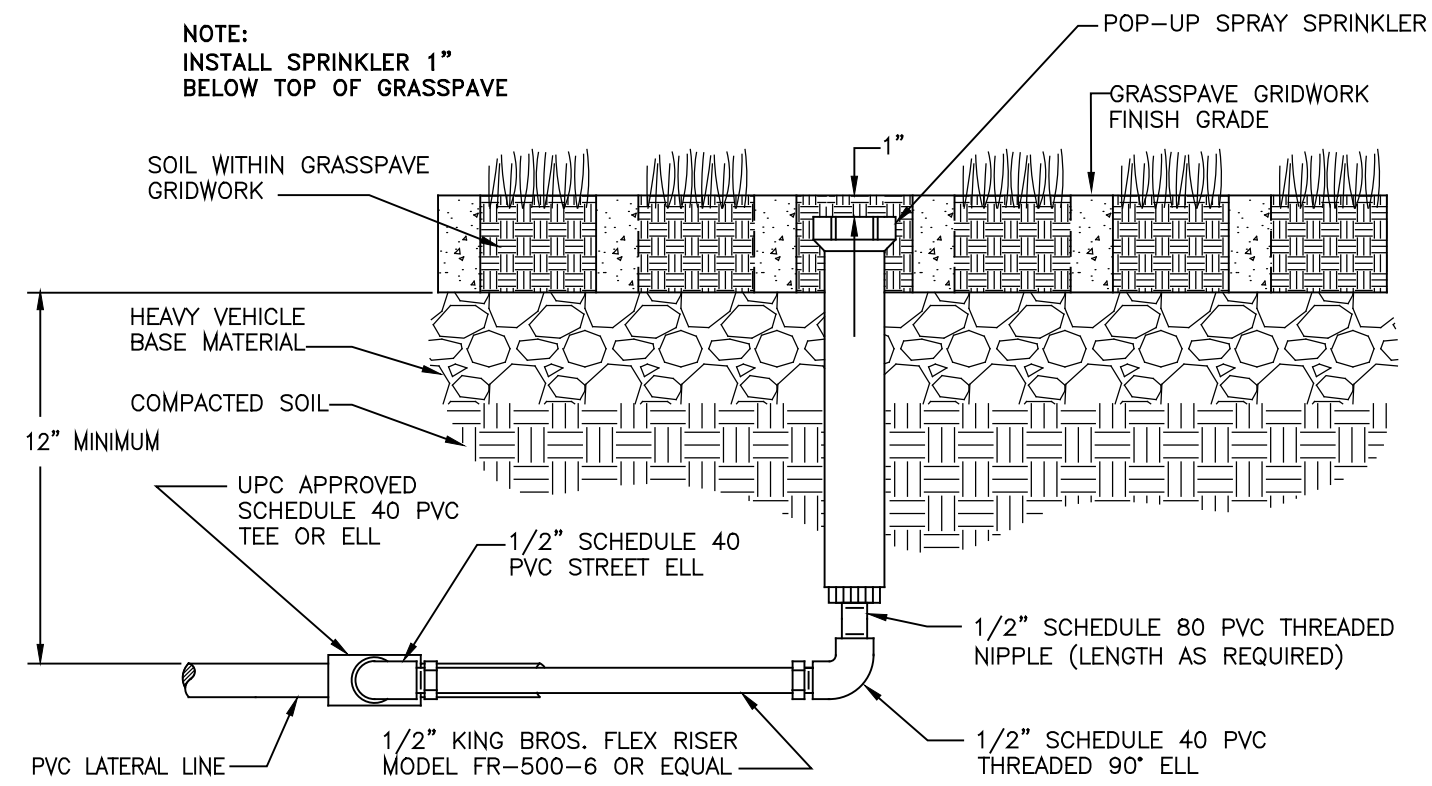
**MASTER VALVE AND FLOW METER**  
NOT TO SCALE



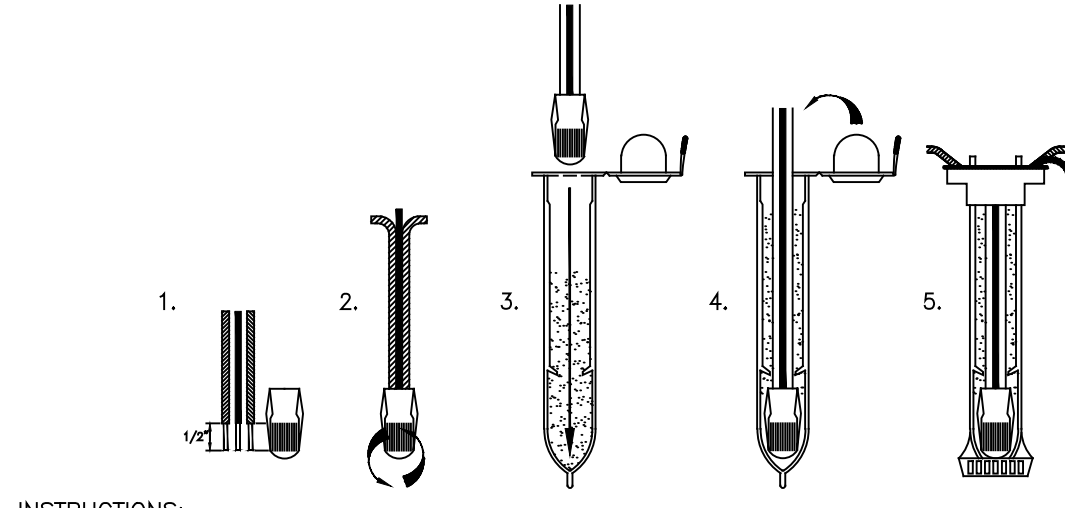
**REMOTE CONTROL VALVE**  
NOT TO SCALE



**GATE VALVE**  
NOT TO SCALE

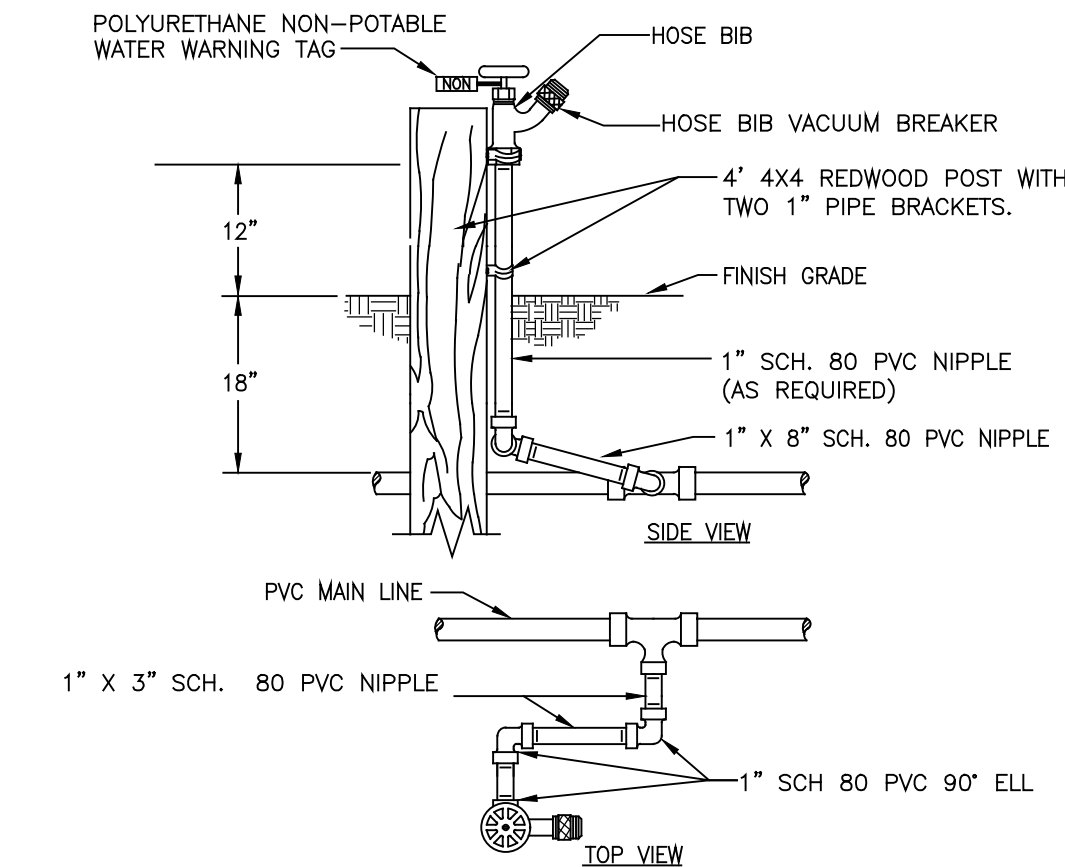


**POP-UP SPRAY SPRINKLER RISER IN GRASSPAVE**  
NOT TO SCALE

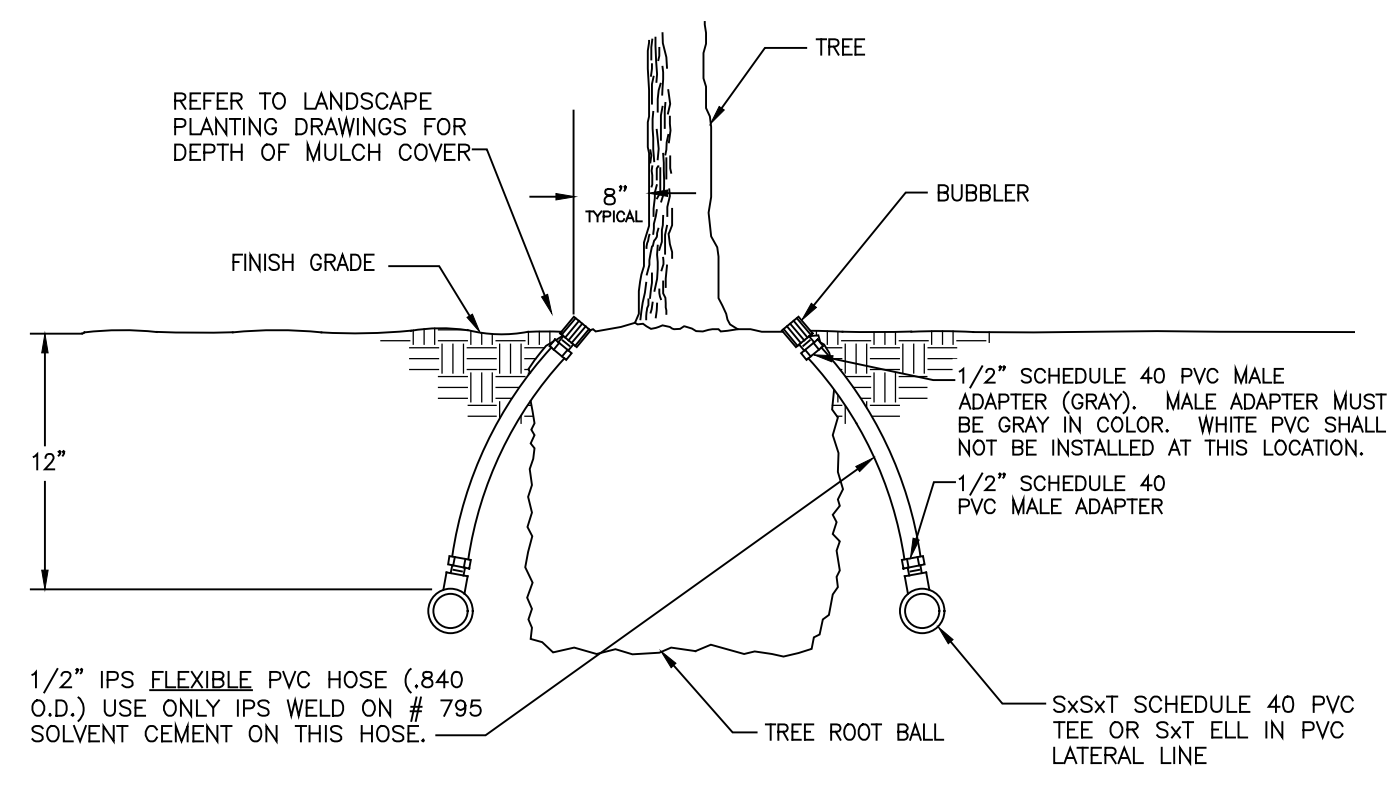


- INSTRUCTIONS:
- USE 3M-DBR/Y-6 WEATHER PROOF SPLICE.
  - STRIP WIRES APPROXIMATELY 1/2" (12.7 MM) TO EXPOSE WIRE.
  - TWIST CONNECTOR AROUND WIRES CLOCKWISE UNTIL HAND TIGHT, DO NOT OVERTIGHTEN.
  - INSERT WIRE ASSEMBLY INTO PLASTIC TUBE UNTIL WIRE CONNECTOR SNAPS PAST LIP IN BOTTOM OF TUBE.
  - PLACE WIRES WHICH EXIT TUBE IN WIRE EXIT HOLES AND CLOSE CAP UNTIL IT SNAPS.
  - INSPECT FINAL SPLICE ASSEMBLY TO BE SECURE AND FINISHED.

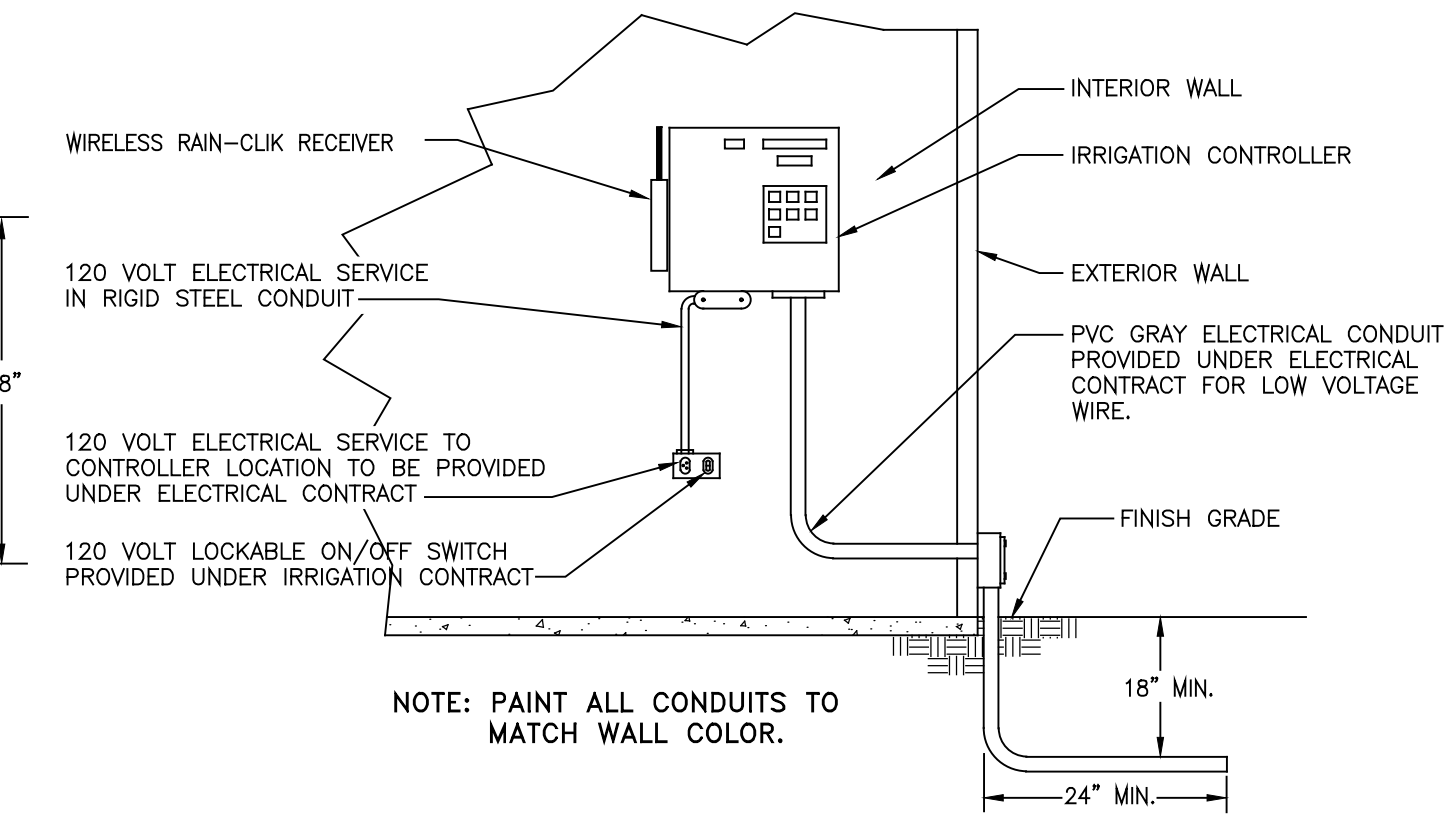
**WEATHERPROOF SPLICE ASSEMBLY**  
NOT TO SCALE



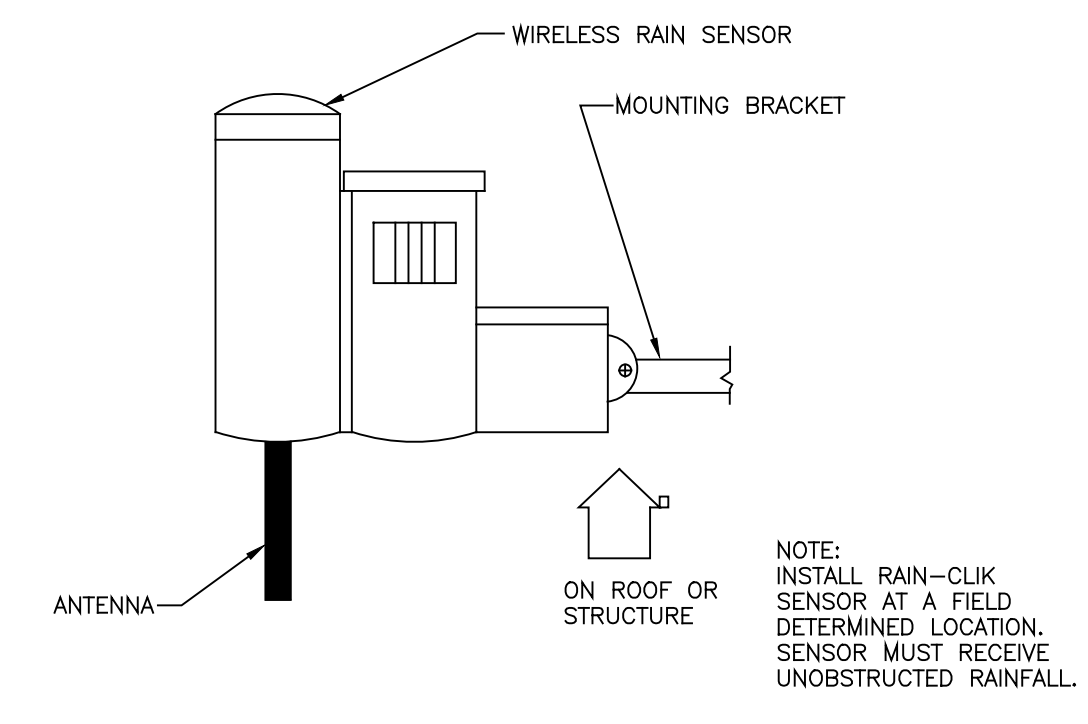
**HOSE BIB**  
NOT TO SCALE



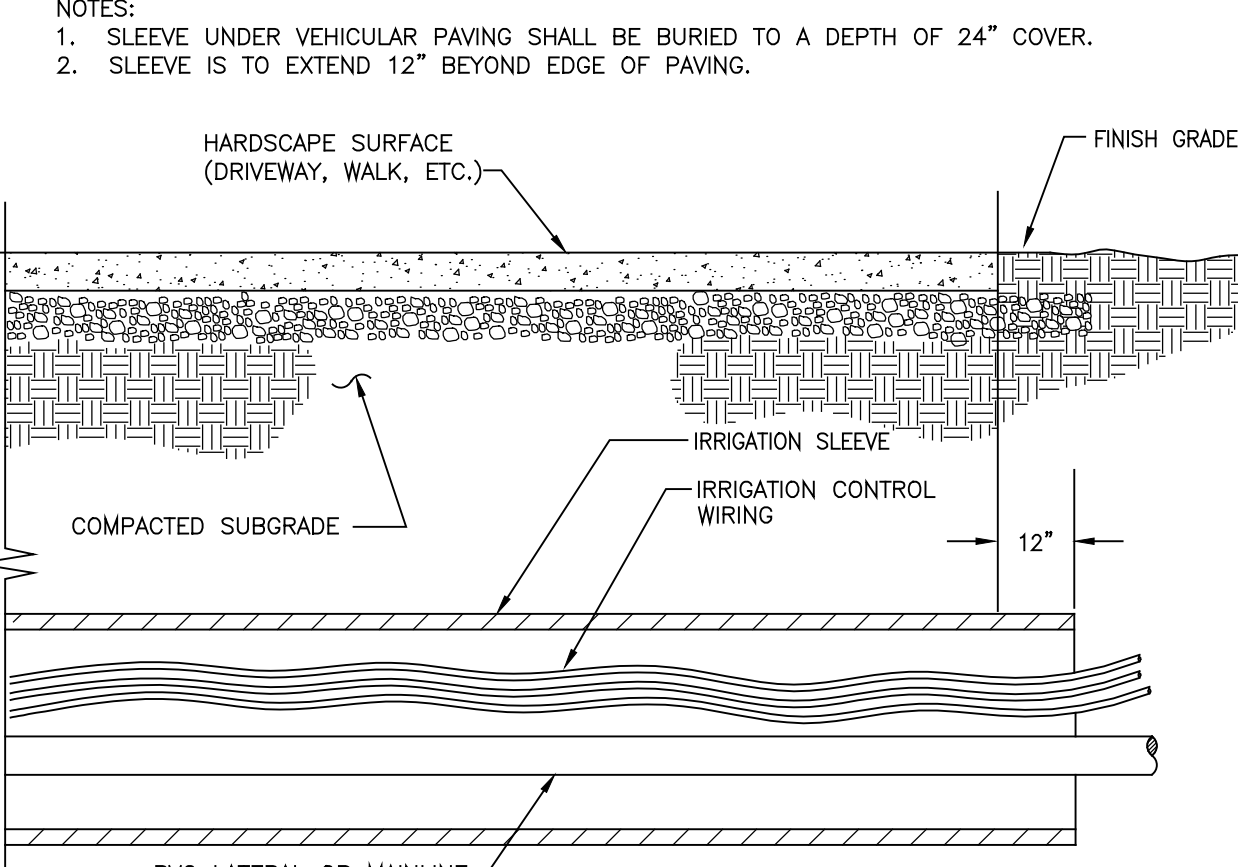
**TREE BUBBLER**  
NOT TO SCALE



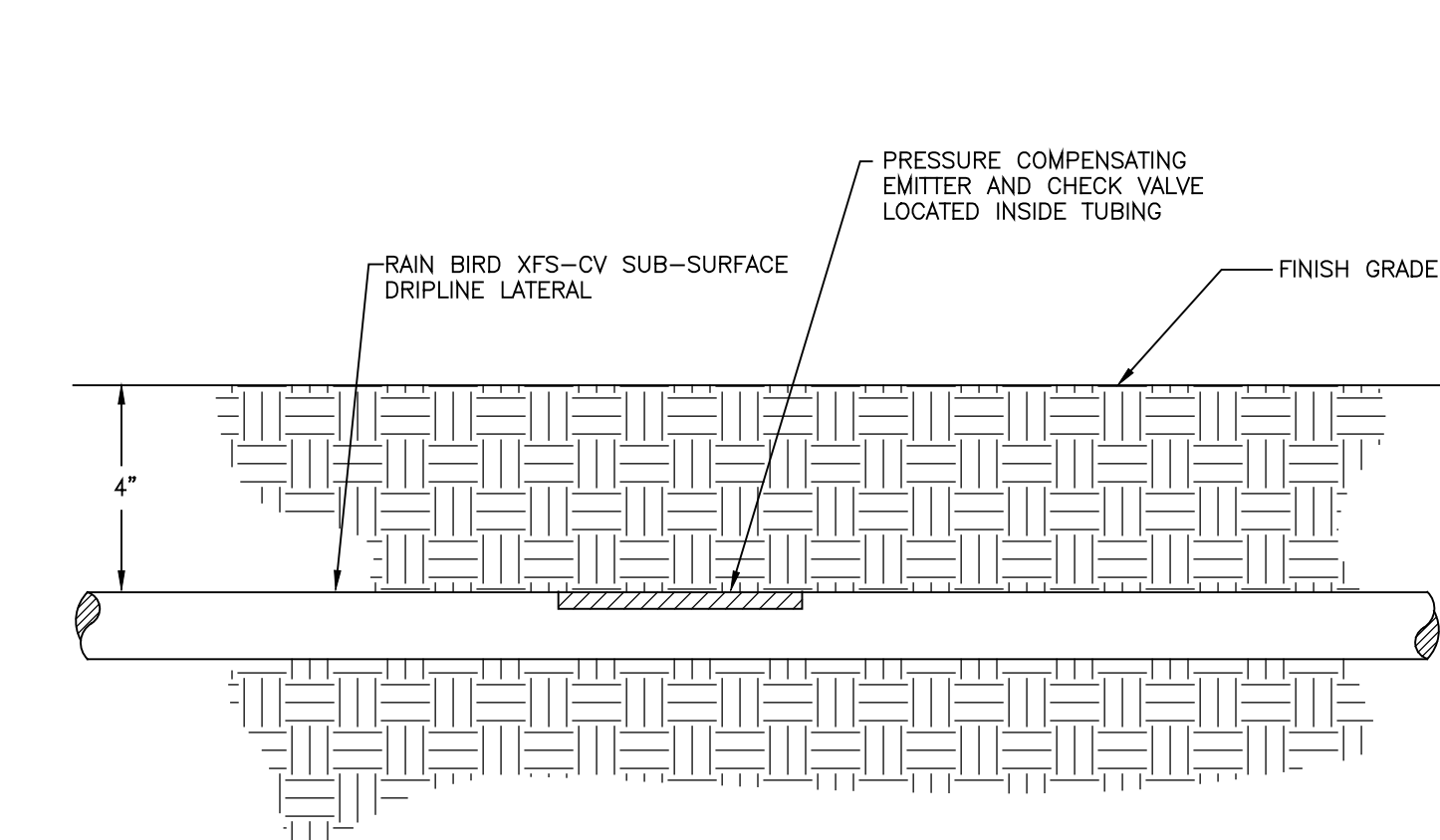
**INTERIOR WALL MOUNT CONTROLLER**  
NOT TO SCALE



**WIRELESS RAIN-SLICK SENSOR**  
NOT TO SCALE



**SLEEVING INSTALLATION**  
NOT TO SCALE



**DRIPLINE DETAIL**  
NOT TO SCALE



**KALLWEIT RESIDENCE**  
Oakville Ridge Road  
Napa, CA 94558  
AP: 027-340-024

DRAWN BY: LMD/MDD  
SCALE: 1/8" = 1'-0"  
DATE: 06/22/2020  
ISSUE: VIEWSHED PROTECTION PROGRAM RESUBMITTAL

**IRRIGATION DETAILS**

**IR-3**

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