

ENVIRONMENTAL INITIAL STUDY & MITIGATED NEGATIVE DECLARATION

Zone Amendment 23-0004
Parcel Map 22-0005
Tellstrom

December 6, 2024

ENVIRONMENTAL INITIAL STUDY &
MITIGATED NEGATIVE DECLARATION
WITH
References and Documentation

Prepared by
SHASTA COUNTY DEPARTMENT OF RESOURCE MANAGEMENT
PLANNING DIVISION
1855 Placer Street, Suite 103
Redding, California 96001

**SHASTA COUNTY
ENVIRONMENTAL CHECKLIST FORM
INITIAL STUDY & MITIGATED NEGATIVE DECLARATION**

- 1. Project Title:**
Zone Amendment 23-0004 and Parcel Map 22-0005 (Tellstrom)
- 2. Lead agency name and address:**
Shasta County Department of Resource Management, Planning Division
1855 Placer Street, Suite 103
Redding, CA 96001-1759
- 3. Contact Person and Phone Number:**
Tara Petti, Senior Planner (530) 225-5532
- 4. Project Location:**
The approximately 132.90-acre project site is located approximately 0.48 miles east of the intersection of Lakeview Drive and Shasta Caverns Road, on an undeveloped property on Lakeview Drive, Lakehead, CA 96051 (Assessor Parcel Number 084-190-008)
- 5. Owner/Applicant Name and Address:**
Kenneth H. Tellstrom
5054 Kevin Lane
Shasta Lake, CA 96019
- 6. Representative Name and Address:**
Horrock's Engineers / DKM
6172 Meister Way
Anderson, CA 96007
- 7. General Plan Designation:**
Natural Resource Protection - Recreation Resource (N-R)
- 8. Zoning:**
National Recreation Area, Shasta unit (NRA-S)
- 9. Description of Project:**
The project is a proposal to change the zoning for an approximately 132.90-acre undeveloped parcel from the National Recreation Area, Shasta Unit (NRA-S) to the NRA-S combined with Building Site Minimum (NRA-S-BSM) and to subdivide the subject property into four parcels, 74.89 acres, 20.41 acres, 20.00 acres and 20.20 acres in size, and for approval of exceptions from the Shasta County Development Standards road policies and standards and fire safety standards for primary road access. The minimum lot size for the proposed BSM zone district will be equal to the proposed acreage of each of the four new parcels. Development envelopes are proposed on each of the proposed parcels and the remaining land is designated non-building/limited-disturbance area due to the heavily forested and steeply sloped terrain. Limited disturbance is defined for the project as disturbance that is limited to vegetation removal to meet the legal requirements for defensible space for structures in accordance with Public

Resources Code Section 4291, and for forest management subject to the Forest Practices Act, including timber harvest plans, which are the functional equivalent of CEQA, and under the jurisdiction of California Department of Forestry and Fire Protection. The development envelopes are between .51 and 1.07 acres in size and are located in areas that were previously disturbed by forest management activities. The average existing road width of Lakeview Drive is 20 feet with and without shoulders. Construction of two 80-foot turn outs located along Lakeview Drive and a new fire engine turn-around where Lakeview Drive and Skyline Drive intersect within the project boundary are proposed to improve emergency access. The Shasta County Fire Department supports a request for an exception from the fire safety access road standards for a 68-foot-long, 16-foot wide pinch point on Lakeview Drive that does not meet the minimum width of 20-feet with 1-foot shoulders, provided the improvements described above are implemented. The applicant is also proposing improvements to the road shoulders in the form of aggregate base backing and paving in five (5) locations along Lakeview Drive where severe slopes along the roadway do not impede construction of shoulders. The Shasta County Department of Public Works supports the applicant's request for an exception to the County Road Standards for the segments of road that do not meet the minimum width and shoulder standard of 20-foot wide with 4-foot shoulders for rural minor local roads serving 10 to 24 lots provided the improvements described above are implemented. The proposed parcels would be serviced by individual onsite wastewater treatment systems and private wells.

10. Setting and Surrounding Land Uses:

The 132.90-acre project site is generally located in the Sacramento Canyon region of Shasta County, approximately 0.5 miles west of the McCloud River Arm of Shasta Lake and 0.5 miles east of O'Brien, CA. The topography consists of ridges running in a southeasterly direction with slopes descending toward Shasta Lake. Slopes range from 0-30% slopes along small portions of the ridgelines to 40-60% on the majority of the subject property. The elevation is approximately 1,400 feet. The property is heavily forested with old sparsely vegetated landing sites. Several vegetative communities are present including Ponderosa Pine Forest and Montane Hardwood which are the dominant vegetative communities. Montane Hardwood-Conifer, Blue Oak Foothill Pine, and Mixed Chaparral are also present.

Surrounding lands are in the National Recreation Area, Shasta Unit (NRA-S) zone district and are generally comprised of Forest Service land to the east, west and south and large residential lands to the north. Lakeview Drive to Skyline Drive is a one-mile-long dead-end road with access from Interstate 5 via Shasta Caverns Road. Twenty-one (21) private properties including eleven (11) developed residential properties ranging in size from 4 to 21.6 acres are located to the north of the subject property and have ingress and egress on Lakeview Drive.

11. Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement.):

None.

12. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.?

In accordance with Public Resources Code (PRC) Section 21080.3.1, the Wintu Tribe of Northern California and Toyon-Wintu Center (Wintu Tribe) filed, and Shasta County received a request for formal notification of proposed projects within an area of Shasta County that is traditionally and culturally affiliated with the Tribe. Pursuant to PRC §21080.3.1 the Department of Resource Management sent a certified letter to notify the Tribe that the project was under review and to provide the Tribe 30 days from the receipt of the letter to request formal consultation on the project in writing. To date, no response has been received.

Certified mail records show that on July 29, 2024, a certified tribal consultation letter was sent to the tribe and was received by the Wintu Tribe on July 31, 2024. As of August 30, 2024, the Tribe has not responded nor requested formal consultation. Therefore, the requirements of AB52 have been met and no AB52 project consultation with

the Wintu Tribe of Northern California is required.

NOTE: Conducting consultation early in the CEQA process allows tribal governments, lead agencies, and project proponents to discuss the level of environmental review, identify and address potential adverse impacts to tribal cultural resources, and reduce the potential for delay and conflict in the environmental review process. (See Public Resources Code section 21080.3.2.) Information may also be available from the California Native American Heritage Commission's Sacred Lands File per Public Resources Code section 5097.96 and the California Historical Resources Information System administered by the California Office of Historic Preservation. Please also note that Public Resources Code section 21082.3(c) contains provisions specific to confidentiality.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a “Potentially Significant Impact” as indicated by the checklist on the following pages.

	Aesthetics		Agricultural Resources		Air Quality
	Biological Resources		Cultural Resources		Energy
	Geology / Soils		Greenhouse Gas Emissions		Hazards & Hazardous
	Hydrology / Water Quality		Land Use / Planning		Mineral Resources
	Noise		Population / Housing		Public Services
	Recreation		Transportation		Tribal Cultural Resources
	Utilities / Service Systems		Wildfire		Mandatory Findings of Significance

DETERMINATION: (To be completed by the Lead Agency)

On the basis of the initial evaluation:

☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

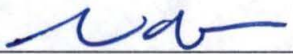
☒ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed project MAY have a “potentially significant impact” or “potentially significant unless mitigated” impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.


☐ I find that although the proposed project could have a significant effect on the environment because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Copies of the Initial Study and related materials and documentation may be obtained at the Planning Division of the Department of Resource Management, 1855 Placer Street, Suite 103, Redding, CA 96001. Contact Tara Petti, Senior Planner at (530) 225-5532.

 For:

Tara Petti
Senior Planner

12/5/24
Date

_____
Sean Ewing
Director of Resource Management

12/5/24
Date

EVALUATION OF ENVIRONMENTAL IMPACTS:

- 1) A brief explanation is required for all answers except “No Impact” answers that are adequately supported by the information sources a lead agency cites in the parenthesis following each question. A “No Impact” answer is adequately supported if all the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A “No Impact” answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- 2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3) Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less-than-significant with mitigation, or less-than-significant. “Potentially Significant Impact” is appropriate if there is substantial evidence that an effect may be significant. If there are one or more, “Potentially Significant Impact” entries when the determination is made, an EIR is required.
- 4) “Negative Declaration: Less-than-significant With Mitigation Incorporated” applies where the incorporation of mitigation measures has reduced an effect from “Potentially Significant Impact” to a “Less-than-significant Impact.” The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less-than-significant level (mitigation measures from Section XVIII, “Earlier Analyses,” may be cross-referenced).
- 5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or Negative Declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
 - a) Earlier Analysis Used. Identify and state where they are available for review.
 - b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
 - c) Mitigation Measures: For effects that are “Less-than-significant with Mitigation Measures Incorporated,” describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
- 6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g. General Plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
- 7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
- 8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project’s environmental effects in whatever format is selected.
- 9) The explanation of each issue should identify the following:
 - a) The significance criteria or threshold, if any, used to evaluate each question; and
 - b) The mitigation measure identified, if any, to reduce the impact to less-than-significant.

I. AESTHETICS: Except as provided in Public Resources Code Section 21099, would the project:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a) Have a substantial adverse effect on a scenic vista?			✓	
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State scenic highway?				✓
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from a publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?			✓	
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?			✓	

Discussion: Based on the related documents listed in the Sources of Documentation for Initial Study Checklist, staff review of the project, observations on the project site and in the vicinity, the following findings can be made:

- a) The project would not result in any adverse effect on a scenic vista. The project site is surrounded by forest land on all sides with limited residential development to the north. Potential post-project development of the proposed parcels could result in four future homesites. The use of neutral exterior colors and non-glare roofing materials are required for all residential development in the NRA-S zone district which would limit visibility of any future buildings. In addition, designated development envelopes, would limit the potential disturbance areas on each of the proposed parcels. The Shasta-Trinity National Forest District Ranger responded to requests for early referral and did not express concerns or request mitigation measures for potential impacts to views from Shasta Lake. With strict conformance to the provisions of the NRA-S zoning, and the proposed development envelopes, the project would not result in any adverse effect on a scenic vista.
- b) The project would not substantially damage any scenic resource. The project site is not visible from a designated scenic highway.
- c) The project would not degrade the existing visual character or quality of the site and its surroundings. The project site is surrounded by forest land on all sides with limited residential development to the north. Potential post-project development of the proposed parcels could result in four future homesites. The use of neutral exterior colors and non-glare roofing materials are required for all residential development in the NRA-S zone district which would limit visibility of any future buildings. In addition, designated development envelopes, would limit the potential disturbance areas on each of the proposed parcels. The Shasta-Trinity National Forest District Ranger responded to requests for early referral and did not express concerns or request mitigation measures for potential impacts to views from Shasta Lake. With strict conformance to the provisions of the NRA-S zoning, and the enforcement of designated development envelopes, potential post-project residential development of proposed parcels would be consistent with the existing visual character and quality of the site and its surroundings.
- d) The project would not create a new source of substantial light or glare which would adversely affect day or nighttime views in a non-urbanized area. Potential post-project development could lead to new sources of lighting consistent with residential development of the newly created parcels. The introduction of such lighting would be consistent with the surrounding visual character and quality of the site and would not result in substantial light or glare. The County Zoning Plan requires that all lighting, exterior and interior, shall be designed and located so as to confine direct lighting to the premises and that a light source shall not shine upon or illuminate directly on any surface other than the area required to be lighted. No lighting shall be of the type or in a location such that constitutes a hazard to vehicular traffic, either on private property or on abutting streets.

Mitigation/Monitoring: None proposed.

II. <u>AGRICULTURE AND FORESTRY RESOURCES:</u> In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a) Convert Prime Farmland, Unique Farmland, or Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?				✓
b) Conflict with existing zoning for agricultural use, or a Williamson Act Contract?				✓
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?			✓	
d) Result in the loss of forest land or conversion of forest land to non-forest use?			✓	
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?			✓	

Discussion: Based on the related documents listed in the Sources of Documentation for Initial Study Checklist, staff review of the project, observations on the project site and in the vicinity, the following findings can be made:

- a) The subject property is not identified as Prime Farmland, Unique Farmland, or Statewide Importance on the map titled Shasta County Important Farmland 2020.
- b) Neither this property nor the surrounding properties are in a Williamson Act Contract.
- c-e) The project would not conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g)). The proposed rezoning would only serve to establish minimum lot sizes for the resultant parcels and would not affect the principal zoning or the permitted uses therein. Though the proposed subdivision would create smaller lots which may reduce the lands' feasibility for industrial forest management in the future, but the property is not in a Timberland Production zone district. The subject property meets the definition of forest land as defined in PRC section 12220(g), and if the California Department of Forestry and Fire Protection determines that the project site is forest land or timberland, the project would result in the conversion of forest land. However, development envelopes are proposed within each of the resultant parcels, and residential development would be restricted to those areas. As a result, residential development on each of the subject parcels would be less than 3 acres and would therefore likely qualify for a less-than-three-acre conversion

permit exemption when development is proposed which would represent a negligible conversion of forest land currently present within Shasta County. The potential impacts of the project resulting from the loss forest land or conversion to non-forest use would be less-than-significant. The project site is not located in an area of significant agricultural soils and is not currently used for agricultural purposes.

Mitigation/Monitoring: None proposed

III. AIR QUALITY: Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?				✓
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable Federal or State ambient air quality standard?			✓	
c) Expose sensitive receptors to substantial pollutant concentrations?			✓	
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?			✓	
			✓	

Discussion: Based on related documents listed in the Sources of Documentation for Initial Study Checklist, staff review of the project, observations on the project site and in the vicinity, the following findings can be made:

a-b) The project would not conflict with or obstruct implementation of the 2021 Attainment Plan for the Northern Sacramento Valley Planning Air Basin as adopted by Shasta County, or any other applicable air quality plan. The NSVPA Air Quality Attainment Plan (2021) designates Shasta County as an area of Nonattainment with respect to the ozone California ambient air quality standards. Nitrogen oxides (NOx) are a group of highly reactive gasses and are also known as "oxides of nitrogen." Because NOx is an ingredient in the formation of ozone, it is referred to as an ozone precursor. NOx is emitted from combustion sources such as cars, trucks and buses, power plants, and off-road equipment. Construction equipment and activities generate air contaminants, including oxides of nitrogen (NOx), reactive organic gases (ROG), carbon dioxide (CO2) and particulate matter (PM10), in the form of engine exhaust and fugitive dust. A single-family residence would generally be expected to generate 9.52 trips per unit per day, including one trip during each of the morning and evening peak hours. Thus, the potential post-project residential development of 4 additional homesites would generate approximately 42 new vehicle trips per day. This is an insignificant increase in traffic. Project improvements are limited to two fire safety turnouts and shoulder backing along Lakeview Drive, and construction of a fire engine turn-around where Lakeview Drive and Skyline Drive intersect within the project boundary. Construction equipment and activities associated with the proposed road improvements and potential construction of single-family residences along with accessory structures and site improvement such as driveways on each of the proposed parcels would generate air contaminants, including oxides of nitrogen (NOx), reactive organic gases (ROG), carbon dioxide (CO2) and particulate matter (PM10), in the form of engine exhaust and fugitive dust. The scope of the required project improvements is relatively limited and will not involve extensive vegetation removal or ground disturbance, require a significant number of equipment hours to complete, or generate significant traffic volumes during construction or vehicle trips once the parcels are developed. Therefore, the project is not expected to be a significant source of air contaminants.

In addition, the Shasta County General Plan requires that application of Standard Mitigation Measures (SMM) or Best Available Mitigation Measures (BAMM) on all discretionary land use applications as recommended by the AQMD to mitigate both direct and indirect emissions of non-attainment pollutants. With the application of SMM, in combination with the limited scope of improvements and limited daily vehicle trips projected with post-project development, the project will not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable Federal or State ambient air quality standard and would not conflict with or obstruct implementation of the NSVPA Air Quality Attainment Plan (2021) as adopted by Shasta County, or any other applicable air quality plan.

- c-d) Residential uses exist in the vicinity of the project site. Equipment used to construct the proposed improvements would temporarily produce emissions that some may find objectionable. As described above, substantial pollutant concentrations are not anticipated as a result of proposed road improvements or potential post-project construction activities on the resulting parcels. Nor, does the project involve the establishment of any new uses that would generate substantial pollution concentrations. Therefore, nearby sensitive receptors would not be exposed to substantial pollution concentrations. Nor would a substantial number of people be exposed to objectionable odors.

Mitigation/Monitoring: None proposed.

IV. <u>BIOLOGICAL RESOURCES:</u> Would the project:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a) Have a substantial effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?		✓		
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?			✓	
c) Have a substantial adverse effect on state or Federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?			✓	
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?		✓		
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?				✓
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community, Conservation Plan, or other approved local, regional, or State habitat conservation plan?				✓

Discussion: Based on the related documents listed in the Sources of Documentation for Initial Study Checklist, Biological Review completed by Wildland Resource Managers in October 2024, staff review of the project, observations on the project site and in the vicinity, the following findings can be made:

- a) Project-related construction activities include shoulder backing in five (5) locations along Lakeview Drive, two 80-foot turn outs located along Lakeview Drive and a new fire engine turn-around where Lakeview Drive and Skyline Drive intersect within the project boundary. Residential development would be permitted upon approval of the subdivision map and limited to the proposed development envelopes. The designated development envelopes are in areas where timber harvest operations were conducted in 1998, and where associated soil disturbance occurred. Project specific land disturbance is therefore limited to minor road improvements proposed along Lakeview Drive.

A records search of the California Natural Diversity Database, as part of the Biological Resources Review completed by Wildland Resource Managers, determined that one (1) listed plant species, the Shasta snow-wreath (*Neviusia cliftonii*) has potential to occur

on-site or in the general project area. On the same basis, it was determined that potential habitat for twelve (12) listed and special status bird, reptile and mammal species have potential to occur on-site or in the general project area, including habitat for Shasta Salamander (*Hydromantes shastae*), foothill yellow-legged frog-north coast DPS (*Rana boylei pop.1*), bald eagle (*Haliaeetus leucocephalus*), yellow-headed blackbird (*Xanthocephalus xanthocephalus*), yellow-breasted chat (*Icteria virens*), osprey (*Pandion haliaetus*), yellow warbler (*Setophaga petechia*), green sturgeon-southern DPS (*Acipenser medirostris pop.1*), Fisher (*pekania pennanti*), northern California ringtail (*Bassariscus astutus raptor*), pallid bat (*Antrozous pallidus*), Townsends big-eared bat (*Corynorhinus townsendii*), and northwestern pond turtle (*Actinemys marmorata*). Botanical and biological surveys of the project site were conducted in August and September 2024, by Wildland Resource Managers, and were focused on the proposed development envelopes on the four proposed lots because the remainder of the project area is designated non-building/limited-disturbance area on the proposed parcel map. Potentially suitable habitat was identified for bald eagle (*Haliaeetus leucocephalus*), osprey (*Pandion haliaetus*), Fisher (*pekania pennanti*), northern California ringtail (*Bassariscus astutus raptor*) pallid bat (*Antrozous pallidus*), the Shasta snow-wreath (*Neviusia clifronii*) and for four rare plants including Oval-leaved viburnum (*Viburnum ellipticum*), Shasta fawn lily (*Erythronium shastense*), Northern clarkia (*Clarkia borealis*) and broad-lobed leptosiphon (*leptosiphon latisectus*).

The presence of Townsend Big-eared bat was confirmed on the subject property. No other listed or special status fauna were observed. Mitigation measure IV.a.1 is incorporated into the project to require that a survey be done for bat roosting opportunities prior to tree removal and that ground disturbance and vegetation removal must take place outside of the roosting period and, if roosting habitat is discovered, said trees must be removed through a two-step process. With the mitigation measure proposed, the project would reduce any potential impacts to bats to a less-than-significant level.

No special status or rare plant species were observed during field surveys, however due to the presence of potential habitat within the project site for the threatened and rare plant species described above, the biologist recommended a botanical survey be conducted in the spring (March-April) to determine if those species are present. Mitigation measure IV.a.2 requires that a botanical survey be completed in the spring during the blooming period (March-April) prior to recordation of the final parcel map, unless it can be clearly demonstrated that potential habitat for the listed and rare plants mentioned in this section is not present on site through consultation with CDFW. If the botanical survey results in a positive siting within the proposed development envelopes, mitigation measure IV.a.2 requires a non-disturbance area(s) encompassing the area where the species was found and the associated habitat to be disclosed on the final parcel map, and if avoidance is infeasible, a qualified botanist shall prepare and provide for alternative measures, including but not limited to an off-site conservation easement at a 2:1 ratio, and seed harvesting and/or top soil removal and stockpiling for a seed bank and/or transplanting at an appropriate off-site location for review and approval of the Planning Division, who may seek guidance from the California Department of Fish and Wildlife, to ensure impacts to the sensitive species are less than significant by analyzing the degree of potential impacts, and utilizing tools. These measures would only be necessary if sensitive or endangered botanical species are discovered and significant impacts from development would occur.

The project would not have a substantial effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species with implementation of the proposed mitigation measures.

- b) The project area is predominantly composed of multi-aged, generally two-storied ponderosa pine and black oak stand, with pockets of maple. The Biological Review indicates there is one Class II watercourse in the northeast corner of the project area, and eight ephemeral Class III watercourses, and further indicates that these channels have riparian canopy consisting of understory vegetation and overstory black oak and maples. Proposed improvements are limited to road shoulder improvements and installation of road turn-outs and a hammerhead turn-around for emergency fire access. Development envelopes are identified on each of the proposed parcels and the remaining land is designated non-building/limited-disturbance area due to the heavily forested and steeply sloped terrain. The development envelopes are between .51 and 1.07 acres in size and are located in areas that were previously disturbed by logging activities. Potential significant impacts to riparian habitat and oak woodland habitat are not expected due to the limited nature of proposed improvements and the designation of development envelopes.
- c) The Biological Review indicates there is one Class II watercourse in the northeast corner of the project area, and eight ephemeral Class III watercourses. The project does not involve any on-site improvements outside of the existing road prism or over any known watercourse. The proposed development envelopes are located outside of the riparian areas associated with the on-site watercourses, and all areas outside the proposed development envelopes will be designated non-building/limited-disturbance areas on the final parcel map. Substantial adverse effects on state or federally protected wetlands are therefore not anticipated as a result of project improvements and future residential development that may result from the project.
- d) Future residential improvements would be constructed in areas that are previously disturbed from logging related activities. Construction of the required road improvements may require some vegetation removal. Potential residential development would occur within areas that have been disturbed by logging activities and are limited to designated development envelopes. However,

project construction activities conducted during the bird nesting season (September 1 through January 31) could potentially impact nesting migratory birds. The Biological Review indicated that based on field observations, published information, and literature review suitable habitat for nesting birds exists on the project site. The CDFW recommended that construction take place outside of the nesting season to avoid substantial adverse effects of nesting birds. In the event that tree removal for future development might take place during the nesting season, Mitigation Measure IV.d.1 has been included to ensure that adequate surveys are conducted for nesting birds prior to removal of trees and that adverse impacts to nesting birds is avoided with the proper measures. No other alteration is proposed to the site that would interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites. With the proposed mitigation measures, the impacts from the project would be less than significant.

- e) The project site is not an oak woodland and no removal of trees is proposed as part of this map approval. The project would not conflict with any ordinances or policies which protect biological resources. Shasta County Board of Supervisors' Resolution No. 95-157 provides guidance regarding use and protection of oak trees on a voluntary basis.
- f) There are no adopted Habitat Conservation Plan, Natural Community, Conservation Plan, or other approved local, regional, or State habitat conservation plans for the project site or project area.

Mitigation/Monitoring: With the following mitigation measures, the impacts from the project to biological resources would be less-than-significant.

Bats

IV.a.1) To mitigate potential impacts to bats the applicant shall:

- a. Conduct large tree removal outside of the bat maternity season and bat hibernacula (September 1 to October 31).
- b. If removal or disturbance of trees will occur during the bat maternity season, when young are non-volant (March 1 – Aug. 31), or during the bat hibernacula (November 1 – March 1) large trees (those greater than 5 inches in diameter) shall be thoroughly surveyed for cavities, crevices, and/or exfoliated bark that may have high potential to be used by bats within 14 days of the start of construction. The survey shall be conducted by a qualified biologist or arborist familiar with these features to determine if tree features and habitat elements are present within the pine trees. Trees with features potentially suitable for bat roosting should be clearly marked prior to removal and humane evictions must be conducted by or under the supervision of a biologist with specific experience conducting exclusions. Humane exclusions could consist of a two-day tree removal process whereby the non-habitat trees and brush are removed along with certain tree limbs on the first day and the remainder of the tree on the second day.

IV.a.2) In order to avoid impacts to listed and rare plants plant species the following shall be implemented:

- a. Prior to recording the final parcel map, a qualified biologist or botanist shall conduct a botanical survey following CDFW'S March 2018 Protocols for Surveying and Evaluating Impacts to Special Status Native Plants Populations and Sensitive Natural Communities in the spring during the blooming period (March-April), unless it can be clearly demonstrated that potential habitat for the listed and rare plants mentioned in this section is not present on site through consultation with CDFW.; and
- b. If the botanical survey results in a positive siting of any listed and rare plant species within the proposed development envelopes, a protected non-building/non-disturbance area(s) encompassing the area where the species was found and the associated habitat shall be shown the final parcel map. If avoidance is infeasible, a qualified botanist shall prepare and provide for alternative measures, including but not limited to an off-site a conservation easement at a 2:1 ratio, and seed harvesting and/or top soil removal and stockpiling for a seed bank and/or transplanting at an appropriate off-site location with review and approval of the Planning Division, who may seek guidance from the California Department of Fish and Wildlife, and to ensure impacts to the sensitive species are less than significant by analyzing the degree of potential impacts. These measures would only be necessary if sensitive or endangered botanical species are discovered and significant impacts from development would occur.

Nesting Birds and/Raptors

IV.d.1) In order to avoid impacts to nesting migratory birds and/or raptors protected under federal Migratory Bird Treaty Act and California Fish and Game Code Section 3503 and Section 3503.5, including their nests and eggs, one of the following shall

be implemented:

- a. Vegetation removal and other ground-disturbance activities associated with improvements for the map or construction on subsequent lots shall occur between September 1 and January 31 when birds are not nesting; or
- b. If vegetation removal or ground disturbance activities occur during the nesting season (February 1 through August 31), a pre-construction nesting survey shall be conducted by a qualified biologist within 14 days of vegetation removal or construction activities. If an active nest is located during the preconstruction surveys, a non-disturbance buffer shall be established around the nest by a qualified biologist in consultation with the Department of Fish and Wildlife (CDFW). No vegetation removal or construction activities shall occur within this non-disturbance buffer until the young have fledged, as determined through additional monitoring by the qualified biologist. The results of the pre-construction surveys shall be sent electronically to CDFW at R1CEQARedding@wildlife.ca.gov.

<u>V. CULTURAL RESOURCES:</u> Would the project:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?				✓
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?				✓
c) Disturb any human remains, including those interred outside of formal cemeteries?				✓

Discussion: Based on the related documents listed in the Sources of Documentation for Initial Study Checklist, an Archaeological Inventory Survey completed by Brian F. Hill, MA staff review of the project, observations on the project site and in the vicinity, the following findings can be made:

- a-b) In accordance with Public Resources Code (PRC) Section 21080.3.1, the Wintu Tribe of Northern California & Toyon-Wintu Center (Tribe) filed and Shasta County received a request for formal notification of proposed projects within an area of Shasta County that is traditionally and culturally affiliated with the Tribe. Pursuant to PRC §21080.3.1 the Department of Resource Management sent a certified letter to notify the Tribe that the project was under review and to provide the Tribe 30 days from the receipt of the letter to request formal consultation on the project in writing. The Tribe received a certified letter of notification on July 31, 2024, with the 30-day notification period ending August 30, 2024. To date, no response has been received.

Information about the project was sent to the Northeast Information Center of the California Historical Resources Information System, which reviewed the project and commented that the project area is considered to be sensitive for cultural resources. A archaeological inventory survey, conducted on June 29, 2023, by Brian F. Hill, found no archaeological, historical, or paleontological resources within the project boundaries. The survey was restricted to the proposed development envelopes on each of the proposed parcels because the surrounding heavily forested and steeply sloped terrain is designated as non-building / limited-disturbance area on the tentative map and therefore no disturbance is anticipated outside the proposed development envelopes. Those development envelopes are between .51 and 1.07 acres in size and are in areas that were previously disturbed by logging activities.

Although there is no evidence to suggest that the project would result in any significant effect to archaeological, historical, or paleontological resources, there is always the possibility that such resources could be encountered. Therefore, a condition of project approval will require that if, in the course of development, any archaeological, historical, or paleontological resources are uncovered, discovered or otherwise detected or observed, development activities in the affected area shall cease and a qualified archaeologist shall be contacted to review the site and advise the County of the site's significance. If the findings are deemed significant by the Environmental Review Officer, appropriate mitigation shall be required.

- c) The project site is not on or adjacent to any known cemetery or burial area. Therefore, there is no evidence to suggest that the project would disturb any human remains. Pursuant to California Health and Safety Code Section 7050.5, in the event of discovery

or recognition of any human remains in any location other than a dedicated cemetery, there shall be no further excavation or disturbance of the site until the coroner has determined if the remains are subject to his or her authority. If the coroner determines that human remains are not subject to his or her authority and recognizes or has reason to believe the remains to be those of a Native American, he or she shall contact the Native American Heritage Commission within 24 hours.

Mitigation/Monitoring: None proposed.

<u>VI. ENERGY:</u> Would the project:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources during project construction or operation?				✓
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?				✓

Discussion: Based on the related documents listed in the Sources of Documentation for Initial Study Checklist, staff review of the project, observations on the project site and in the vicinity, the following findings can be made:

- a) The project would not result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources during project construction or operation. During construction there would be a temporary consumption of energy resources required for the movement of equipment and materials. Compliance with local, State, and federal regulations (e.g., limit engine idling times, requirement for the recycling of construction debris, etc.) would reduce and/or minimize short-term energy demand during construction to the extent feasible, and construction would not result in a wasteful or inefficient use of energy. Furthermore, through compliance with applicable requirements and/or regulations of the 2016 California Code of Regulations, Title 24, Part 6 – California Energy Code, individual project elements would be consistent with State reduction policies and strategies and would not consume energy resources in a wasteful or inefficient manner. During operation of the completed project, there are no unusual project characteristics or processes that would require the use of equipment that would be more energy intensive than is used for comparable projects or the use of equipment that would not conform to current emissions standards and related fuel efficiencies.
- b) The project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency. State and local agencies regulate the use and consumption of energy through various methods and programs. As a result of the passage of Assembly Bill 32 (AB 32) (the California Global Warming Solutions Act of 2006) which seeks to reduce the effects of Greenhouse Gas (GHG) Emissions, a majority of the state regulations are intended to reduce energy use and GHG emissions. These include, among others, California Code of Regulations, Title 24, Part 6 – California Energy Code, and the California Code of Regulations, Title 24, Part 11– California Green Building Standards Code (CALGreen). The project would only serve end users of electricity and fuel. It is assumed that electricity consumed by the project would be provided by the applicable service provider in accordance with state renewable energy plans and that vehicles used during the construction phase would conform with state regulations and plans regarding fuel efficiency. At the local level, the County’s Building Division enforces the applicable requirements of the Energy Efficiency Standards and Green Building Standards in the California Code of Regulations, Title 24.

Mitigation/Monitoring: None proposed.

<u>VII. GEOLOGY AND SOILS:</u> Would the project:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:			✓	
a)				

<u>VII. GEOLOGY AND SOILS:</u> Would the project:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
i) Rupture of a known earthquake, fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publications 42. ii) Strong seismic ground shaking? iii) Seismic-related ground failure, including liquefaction? iv) Landslides?				
b) Result in substantial soil erosion or the loss of topsoil?			✓	
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?				✓
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?				✓
e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?				✓
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?				✓

Discussion: Based on the related documents listed in the Sources of Documentation for Initial Study Checklist, staff review of the project, observations on the project site and in the vicinity, the following findings can be made:

- a) The project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

i,ii,iii) Rupture of a known earthquake fault; Strong seismic ground shaking; Seismic-related ground failure, including liquefaction;

According to the Alquist-Priolo Earthquake Fault Zoning Maps for Shasta County, there is no known earthquake fault on the project site. According to the Shasta County General Plan Section 5.1, Shasta County has a low level of historic seismic activity. The entire County is in Seismic Design Category D. According to the Seismic Hazards Assessment for the City of Redding, California, prepared by Woodward Clyde, dated July 6, 1995, the most significant earthquake at the project site may be a background (random) North American crustal event up to 6.5 on the Richter scale at distances of 10 to 20 km. No structures are proposed as part of the project. All future residential structures shall be constructed according to the seismic standards and requirements of the currently adopted California Building Standards Code, including preparation of a soils report, if deemed necessary based on site specific soil conditions. Therefore, the potential impacts due to rupture of a known earthquake fault, strong seismic ground shaking, seismic-related ground failure, including liquefaction, would be less-than-significant.

iv) Landslides.

The project site is located at the top of significant slopes. However, the development envelopes are in areas with less than 30 percent slopes, and no land disturbance would be permitted outside the development envelopes. Any construction requiring over 1-foot of fill, cut slopes in excess of 2:1, or stem walls taller than 30 inches requires engineering and a geotechnical report to ensure stability. A grading permit is also required prior to any grading activities. The grading permit includes requirements for erosion and sediment control. With strict conformance to the standards and requirements of the building code, potential impacts due to

landslides would be less-than-significant.

- b) The United States Department of Agriculture (USDA), Soil Conservation Service Web Soil Survey identified the soils in the project site as Marpa-Goulding families association, with 40 to 60 percent slopes. This soil type has a hazard of erosion rating of severe and a soil erosion K factor rating of moderate for sheet and rill erosion, indicating that there is potential for erosion from soil disturbance. Lakeview Drive is an existing road that will provide access to the proposed parcels. Limited improvements to the road shoulders and construction of 2 fire turn outs and a fire engine turnaround are proposed. A grading permit is required prior to any grading activities associated with the proposed road improvements. The grading permit includes requirements for erosion and sediment control, including retention of topsoil. Any future construction of residential structures, associated utilities and driveways would require a building permit and if necessary, engineering and a geotechnical report to ensure structural stability and slope stability. With strict conformance to the Building Code and provisions of any issued grading permit(s), the potential impacts of the project on soil erosion with respect to the loss of topsoil would be less-than-significant.
- c) The project would not be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse. The topography of the site is predominantly steeply sloped. The United States Department of Agriculture (USDA), Soil Conservation Service Web Soil Survey classifies the project site as very limited for construction of residential structures due to slope and depth to bedrock. The survey does not identify any geologic factors resulting in lateral spreading, subsidence, liquefaction or collapse as limiting factors to construction. According to the Shasta County General Plan Section 5.1, Shasta County has a low level of historic seismic activity. Based on records of construction in the area, there is no evidence to support a conclusion that the project is on a geologic unit or soil that is unstable.
- d) The Marpa-Goulding families association soil type is not listed in the USDA, Soil Conservation Service Web Soil Survey as being an expansive soil type.
- e) The project would not have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater. The soils on the project site have been tested for wastewater treatment and have demonstrated compliance with adopted sewage disposal criteria.
- f) There is no evidence to suggest that the project would directly or indirectly destroy a unique paleontological resource or site or unique geologic feature.

Mitigation/Monitoring: None proposed.

VIII. <u>GREENHOUSE GAS EMISSIONS</u>: Would the project:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?			✓	
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?				✓

Discussion: Based on these comments, the related documents listed in the Sources of Documentation for Initial Study Checklist, staff review of the project, observations on the project site and in the vicinity, the following findings can be made:

- a-b) In 2005, the Governor of California signed Executive Order S-3-05, establishing that it is the State of California's goal to reduce statewide greenhouse gas (GHG) emission levels. Subsequently, in 2006, the California State Legislature adopted Assembly Bill AB 32, the California Global Warming Solutions Act. In part, AB 32 requires the California Air Resources Board to develop and adopt regulations to achieve a reduction in the State's GHG emissions to year 1990 levels by year 2020. In 2016, SB 32 and its companion bill AB 197 amended Health and Safety Code Division 25.5, establishing a new climate pollution reduction target of 40 percent below 1990 levels by 2030.

California Senate Bill (SB) 97 established that an individual project's effect on GHG emission levels and global warming must be assessed under CEQA. SB 97 further directed that the State Office of Planning and Research (OPR) develop guidelines for the assessment of a project's GHG emissions. Those guidelines for GHG emissions were subsequently included as amendments to the CEQA Guidelines. The guidelines did not establish thresholds of significance and there are currently no state, regional or county guidelines or thresholds with which to direct project-level CEQA review. As a result, Shasta County reserves the right to use a qualitative and/or quantitative threshold of significance until a specific quantitative threshold is adopted by the state or regional air district.

The County has historically utilized a quantitative non-zero project-specific threshold based on a methodology recommended by the California Air Pollution Officers Association (CAPCOA) and accepted by the California Air Resources Board. According to CAPCOA's Threshold 2.3, CARB Reporting Threshold, 10,000 metric tons of carbon-dioxide equivalents per year (mtCO₂eq/yr) is recommended as a quantitative non-zero threshold. This threshold would be the operational equivalent of 550 dwelling units, 400,000 square feet of office use, 120,000 square feet of retail, or 70,000 square feet of supermarket use. This approach is estimated to capture over half the future residential and commercial development projects in the State of California and is designed to support the goals of AB 32. The use of this quantitative non-zero project-specific threshold by Shasta County, as lead agency, would be consistent with certain practices of other lead agencies in the County and throughout the State of California.

The United States Environmental Protection Agency (EPA) identifies four primary constituents that are most representative of the GHG emissions. They are:

- Carbon Dioxide (CO₂): Emitted primarily through the burning of fossil fuels. Other sources include the burning of solid waste and wood and/or wood products and cement manufacturing.
- Methane (CH₄): Emissions occur during the production and transport of fuels, such as coal and natural gas. Additional emissions are generated by livestock and agricultural land uses, as well as the decomposition of solid waste.
- Nitrous Oxide (N₂O): The principal emitters include agricultural and industrial land uses and fossil fuel and waste combustion.
- Fluorinated Gases: These can be emitted during some industrial activities. Also, many of these gases are substitutes for ozone-depleting substances, such as CFC's, which have been used historically as refrigerants. Collectively, these gases are often referred to as "high global-warming potential" gases.

The primary generators of GHG emissions in the United States are electricity generation and transportation. The EPA estimates that nearly 85 percent of the nation's GHG emissions are comprised of carbon dioxide (CO₂). The majority of CO₂ is generated by petroleum consumption associated with transportation and coal consumption associated with electricity generation. The remaining emissions are predominately the result of natural-gas consumption associated with a variety of uses.

Operational emissions from the proposed project would be significantly less than the quantitative non-zero project-specific thresholds described above. The scope of the proposed project improvements will not involve a significant number of equipment hours to complete and would not generate significant traffic volumes during construction. A single-family residence would generally be expected to generate 9.52 trips per unit per day, including one trip during each of the morning and evening peak hours. Thus, the potential post-project residential development of 4 additional homesites would generate approximately 42 new vehicle trips per day, and operational GHG emissions associated with potential post-project development are well below the threshold of 550 dwelling units. Therefore, the project is not expected to generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment, nor would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

Mitigation/Monitoring: None proposed.

IX. HAZARDS AND HAZARDOUS MATERIALS: Would the project:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?			✓	
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?			✓	
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?				✓
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?				✓
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or				✓

IX. HAZARDS AND HAZARDOUS MATERIALS: Would the project:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
excessive noise for people residing or working in the project area?				
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?			✓	
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?			✓	

Discussion: Based on these comments, the related documents listed in the Sources of Documentation for Initial Study Checklist, staff review of the project, observations on the project site and in the vicinity, the following findings can be made:

- a-b) The scope of the required project improvements and any potential post-project residential development would be relatively limited and would not require the transport, use, storage, or disposal of significant quantities of hazardous materials commonly used in construction projects such as fuel, oil, solvents, etc. Therefore, the project would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials; or through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment.
- c) The project would not emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school. The nearest schools are approximately 11 miles to the south.
- d) The project is not located on a site which is included on a list of hazardous materials sites compiled by the California Department of Toxic Substances Control pursuant to Government Code Section 65962.5. There is no historical evidence of any commercial activity on the site that would have used hazardous materials.
- e) The project is not located within an airport land use plan or within two miles of a public airport or public use airport.
- f) A review of the project and the Shasta County and City of Anderson Multi-Jurisdictional Hazard Mitigation Plan, and the Shasta County Emergency Operations Plan, indicates that the proposed project would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan.
- g) The project is in an area which is designated a “VERY HIGH” fire hazard severity zone. The proposed subdivision and potential post-project development will be required to be constructed in accordance with the Shasta County Fire Safety Standards. These standards require, but are not limited to, the clearing of combustible vegetation around all structures for a distance of not less than 30 feet on each side or to the property line. The California Public Resources Code Section 4291 includes a “Defensible Space” requirement of clearing 100 feet around all buildings or to the property line, whichever is less. The existing road system including Skyline Drive and Lakeview Drive is a dead-end road system and serves 21 additional privately owned properties. The proposed project would not exceed the Shasta County Development Standards maximum dead end road length fire safety standard of one (1) mile for parcels zoned for 20-acres or larger. The four proposed residential parcels are not expected to generate a significant increase in traffic on Lakeview Drive during an evacuation. A 68-foot-long portion of Lakeview Drive does not meet the 20-foot minimum road width with 1-foot shoulders as specified in the Shasta County Fire Safety Standards. The United State Forest Service, Shasta Unit, Recreation Officer expressed concerns during early consultation that the proposed subdivision would increase the number of structures in the Wildland Urban Interface and would require a greater commitment of firefighter to contain wildfires, as well as concerns over ingress and egress considering that Lakeview Drive is a dead-end road, and there is no alternative means of evacuation for residents. The project includes improvements to Lakeview Drive that would improve circulation for fire fighters in the event of a fire emergency including 2 fire engine turn-outs along Lakeview Drive and a hammerhead turn-around at the intersection of Skyline Drive and Lakeview Drive, and, based on the proposed improvements, the Shasta County Fire Department supports an exception to the fire safety standards for road width. With the proposed improvements for emergency access and the limited additional post-project residential development, the project would not substantially increase the exposure of people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires.

Mitigation/Monitoring: None proposed.

X. HYDROLOGY AND WATER QUALITY: Would the project:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact

X. <u>HYDROLOGY AND WATER QUALITY</u>: Would the project:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?			✓	
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin.				✓
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or through the addition of impervious surfaces, in a manner which would: (i) result in substantial erosion or siltation on- or off-site; (ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; (iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or (iv) impede or redirect flows?			✓	
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?				✓
e) Conflict with or obstruct implementation of a water quality control plan or sustainable management plan?				✓

Discussion: Based on the related documents listed in the Sources of Documentation for Initial Study Checklist, staff review of the project, observations on the project site and in the vicinity, the following findings can be made:

- a) The project would not violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality. The project includes minor improvements of road shoulders and construction of two fire turn-outs and a hammerhead turn-around for emergency firefighting equipment. No construction of or improvements to existing crossings are proposed. Future residential development would occur away from stream channels and within the designated development envelopes. All areas within the project boundary that are outside of the proposed development envelopes, will be designated non-building/limited-disturbance areas to avoid impacts to drainages and slope stability. During construction of road improvements and any post-project residential development, water may be used for dust control but otherwise the project would require water for residential uses, which would be supplied by individual wells. Through adherence to construction standards, including erosion and sediment control measures, water quality and waste discharge standards will not be violated. Grading will be needed for this project and a grading permit will be required. The provisions of the grading permit will address erosion and siltation containment on- and off-site. Therefore, potential impacts of the project from violation of water quality standards, waste discharge, or other potential causes of water degradation would be less-than-significant.
- b) The project would not substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin. Private, groundwater wells will provide domestic water to future residences. New development requiring a domestic water supply would increase groundwater extraction; however, sufficient groundwater resources are available in the project area to serve potential development at the site. The Shasta County Environmental Health Division will evaluate the well permit at time of application.
- c) The project would not substantially alter the existing drainage pattern of the site or area, or add impervious surfaces, in a manner which would (i) result in substantial erosion or siltation on- or off-site; (ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; (iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or (iv) impede or redirect flows.

There is one intermittent watercourse originating from a spring with the northeast corner of the project area. This drainage has a moderate to steep 10-40% gradient. There are also eight ephemeral drainage features within the project area that flow in an east/southeast direction to the McCloud arm of Shasta Lake during rain events. These streams have moderate to steep 15-40% gradient channels and have an intact riparian canopy coverage.

Specific development envelopes are designated on each of the four proposed parcels to restrict future residential development to areas with less than 30% slopes. All remaining land within the project site would be designated as non-building/limited-disturbance area to avoid impacts to the existing drainages and slope stability. The project includes limited improvements to the road shoulders and construction of 2 fire turn-outs on Lakeview Drive and a hammerhead turnaround at the intersection of Skyline Drive and Lakeview Drive. These improvements would predominantly occur within the existing road prism. A grading permit will be required for the road and driveway improvements and any future development on proposed parcels, and the grading permit includes requirements for erosion and siltation containment on- and off-site. All future residential construction would also require a building permit and if necessary, engineering and a geotechnical report to ensure structural stability and slope stability. Due to the limited areas of proposed disturbance, and with strict conformance to the Building Code and provisions of any issued grading permit(s), the project would not substantially alter the existing drainage pattern of the site or area, or add impervious surfaces in a manner which would (i) result in substantial erosion or siltation on- or off-site; (ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; (iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or (iv) impede or redirect flows.

- d) The project is not in a flood hazard, tsunami, or seiche zone.
- e) Through adherence to construction standards, and the provisions of the required grading permit, including erosion and sediment control measures, the project would not conflict with or obstruct implementation of a water quality control plan or sustainable management plan.

Mitigation/Monitoring: None proposed.

XI. <u>LAND USE AND PLANNING:</u> Would the project:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a) Physically divide an established community?				✓
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?				✓

Discussion: Based on the related documents listed in the Sources of Documentation for Initial Study Checklist, staff review of the project, observations on the project site and in the vicinity, the following findings can be made:

- a) The project does not include the creation of any road, ditch, wall, or other feature which would physically divide an established community.
- b) The project would not conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project adopted for the purpose of avoiding or mitigating an environmental effect. The property is designated Natural Resource Protection - Recreation Resource (N-R) in the General Plan, wherein the quality of the recreation resource values of national recreation areas shall be protected and maintained, and where residential uses are subject to standards addressing parcel size, siting of structures, removal of natural vegetation, location of access roads, placement of utilities, and other relevant factors designed to mitigate the visual impact of these structures as they are visible by persons using the recreation resources. If lands classified as N-R are within a rural community center, densities equivalent to Rural Residential A are permitted. Otherwise, residential densities equivalent to Rural Residential B are permitted except for areas that exceed 30% slope where the maximum residential density shall be 1 dwelling per 20 acres if within a rural community center and 1 dwelling per 80 acres if not within a rural community center. The subject property is outside a rural community center, so the minimum density is 1 dwelling per 5 acres and 1 dwelling per 80 acres in areas exceeding a 30% slope. The proposed 4-parcel subdivision meets the minimum density requirements and is consistent with the policies and objectives of the N-R General Plan designation.

The project is in the National Recreation Area, Shasta Unit (NRA-S) zone district. The purpose of this district is to establish development standards in the Shasta Lake National Recreation Area (NRA) which will be compatible with public recreation and enjoyment, the conservation of natural resources, and scientific, historic and other values. Those standards require that all residential parcels in the NRA-S zone district have a minimum building site of at least one-half acre in size. The proposed parcels each have designated building sites that are at least one-half acre in size and are in conformance with this standard.

The existing road system serving the project site, including Skyline Drive and Lakeview Drive, is a dead-end road system and serves 21 additional privately owned properties, including 11 developed residential properties. The Shasta County Fire Safety Standard for the maximum permissible length of a dead-end road is based on the minimum parcel size permitted by zoning. The minimum parcel size permitted in the NRA-S zone district is one-half acre, and the standards specify that dead-end road lengths

for parcels zoned for less than one acre shall not exceed 800 feet without an alternative emergency fire escape route. The distance from the nearest through-road (intersection of Lakeview Drive and Shasta Caverns Road) to the furthest proposed parcel is approximately 1.00 mile (5,280 feet), which exceeds the permissible dead-end road length for the current zoning. Construction of a secondary access route /emergency fire escape route is not feasible for the project due to right of way constraints. The Fire Safety Standards specify that parcels on dead-end roads that are 5,280 feet long must be zoned for parcels that are 20 acres or larger. The proposed subdivision is therefore combined with a zone amendment that would change the zoning of the subject property from NRA-S to NRA-S combined with a Building Site Minimum (NRA-S-BSM). The project would subdivide the subject property into four parcels, that are 74.89 acres, 20.41 acres, 20.00 acres and 20.20 acres in size respectively. The proposed building site minimum combining district would define the minimum lot sizes as the sizes of the proposed individual lots as specified by the subdivision map. The proposed zone amendment will maximize the development potential of the subject property in conformance with the Fire Safety Standard for dead-end road length on parcels 20 acres or more in size and preclude further subdivision of the newly created lots.

A 68-foot-long portion of Lakeview Drive does not meet the 20-foot minimum width with 1-foot shoulders as specified in the Shasta County Fire Safety Standards. The project includes improvements to Lakeview Drive including 2 fire engine turn-outs along Lakeview Drive and a hammerhead turn-around at the intersection of Skyline Drive and Lakeview Drive. The Shasta County Fire Department supports an exception to the fire safety standards with implementation of the proposed road improvements for emergency access.

Portions of Lakeview Drive do not meet the minimum 20-foot width and 4-foot shoulders for minor, rural roads as specified in the County Development standards. The average existing road width is 20 feet with and without shoulders. Improvements to the shoulders in the form of aggregate base backing and paving are proposed in five (5) locations where severe slopes along the roadway do not impede construction of shoulders. The Shasta County Department of Public Works supports an exception to the County Road Standards with implementation of the proposed road improvements.

Mitigation/Monitoring: None proposed.

<u>XII. MINERAL RESOURCES:</u> Would the project:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the State?				✓
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local General Plan, specific plan or other land use plan?				✓

Discussion: Based on the related documents listed in the Sources of Documentation for Initial Study Checklist, staff review of the project, observations on the project site and in the vicinity, the following findings can be made:

- There are no known mineral resources of regional value located on or near the project site. Therefore, the project would not result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the State.
- The project site is not identified in the General Plan Minerals Element as containing a locally-important mineral resource. There is no other land use plan which addresses minerals. Therefore, the project would not result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan.

Mitigation/Monitoring: None proposed.

<u>XIII. NOISE:</u> Would the project result in:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?			✓	

<u>XIII. NOISE:</u> Would the project result in:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
b) Generation of excessive groundborne vibration or groundborne noise levels				✓
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				✓

Discussion: Based on the related documents listed in the Sources of Documentation for Initial Study Checklist, staff review of the project, observations on the project site and in the vicinity, the following findings can be made:

- a) The project would not result in a substantial temporary or permanent increase in ambient noise levels in the project vicinity in excess of standards established in the local General Plan or noise ordinance, or applicable standards of other agencies. Per the County's General Plan, noise created by new proposed non-transportation noise sources shall be mitigated so as not to exceed the noise level standards of Table N-IV of the Noise Element as measured immediately within the property line of lands designated for noise-sensitive uses. These noise level performance standards for non-transportation sources are 55 dB hourly Leq for daytime (7:00 a.m. to 10:00 p.m.) hours and 50 dB hourly Leq for nighttime (10:00 p.m. to 7:00 a.m.) hours. The project would not generate noise levels in excess of this standard. Improvements to Lakeview Drive and potential post-project residential development of proposed Parcels 1-4 would cause temporary and periodic increases in ambient noise levels in the project vicinity. Construction activities will be limited to daylight hours between 7:00 a.m. and 7:00 p.m. and will be prohibited on Sundays and Federal holidays. The temporary increase in ambient noise levels in the vicinity of the project is expected to be less-than-significant. There would be increased noise levels caused by the daily activities of any new residences, however the nearest existing residence is approximately 1,100 feet to the north, and the addition of four new residences is not expected to generate permanent increased noise levels in excess of the General Plan standards. Due to the short duration of construction, and the proximity of the proposed parcels to existing residential development, the temporary increase in ambient noise levels in the vicinity of the project is expected to be less-than-significant.
- b) The project would not result in the generation of excessive groundborne vibration or groundborne noise levels. Vibration attenuates rapidly with distance. The construction and operation of the project would not involve equipment or activities that could generate perceptible vibrations. The project is limited in scope to the construction of road improvements on Lakeview Drive. Any groundborne vibration or noise levels as a result of road improvement work are expected to be less-than-significant.
- c) The project is not located within the vicinity of a private airstrip or an airport land use plan, or within two miles of a public airport or public use airport.

Mitigation/Monitoring: None proposed.

<u>XIV. POPULATION AND HOUSING:</u> Would the project:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?			✓	
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?				✓

Discussion: Based on the related documents listed in the Sources of Documentation for Initial Study Checklist, staff review of the project, observations on the project site and in the vicinity, the following findings can be made:

- a) The project would not induce substantial unplanned population growth in an area, either directly or indirectly. This request would

subdivide one parcel into four parcels. The population growth resulting from the potential residential construction of four additional parcels would lead to an insignificant potential population growth within the County. The project does not include the extension of any permanent roads or other infrastructure. Labor for construction would likely be drawn from the local labor pool and/or temporary labor from outside the area. Any increase in construction related jobs would depend on general trends in the local construction market and would not increase significantly from the project alone.

- b) The project does not include demolition of any existing housing. The project would not displace any people or existing housing, necessitating the construction of replacement housing elsewhere. There would be no impact.

Mitigation/Monitoring: None proposed.

XV. PUBLIC SERVICES: Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
Fire Protection?			✓	
Police Protection?				✓
Schools?				✓
Parks?				✓
Other public facilities?			✓	

Discussion: Based on the related documents listed in the Sources of Documentation for Initial Study Checklist, staff review of the project, observations on the project site and in the vicinity, the following findings can be made:

The project would not result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for:

Fire Protection:

The project is in an area which is designated a “VERY HIGH” fire hazard severity zone. The property is within the State Responsibility Area and receives fire protection services from the California Department of Forestry and Fire Protection (Cal Fire) which operates as the Fire Department for the County. The proposed subdivision and potential post-project development will be required to comply with the Shasta County Fire Safety Standards related to construction. The four proposed residential parcels are not expected to generate a significant increase in traffic on Lakeview Drive during an evacuation. A 68-foot-long portion of Lakeview Drive does not meet the 20-foot minimum width with 1-foot shoulders as specified in the Shasta County Fire Safety Standards. The project includes improvements to Lakeview Drive that would improve circulation for fire fighters in the event of a fire emergency including 2 fire engine turn-outs along Lakeview Drive and a hammerhead turn-around at the intersection of Skyline Drive and Lakeview Drive, and based on the proposed improvements, the Shasta County Fire Department has supports an exception to the fire safety standards for road width. With the proposed improvements for emergency access and the limited additional post-project residential development, the project would not result in the additional levels of fire protection in order to maintain acceptable service ratios, response times or other performance objectives for fire protection.

Police Protection:

The County employs a total of 165 sworn and 69 non-sworn County peace officers (Sheriff’s deputies) to serve a population of 66,850 persons that reside in the unincorporated area of the County (United States Census Bureau April 1, 2020). This level of staffing equates to a ratio of approximately one officer per 286 persons. The project may result in the development of 4 residential units. This is not considered significant enough to warrant any additional sworn or non-sworn peace officers. No significant additional level of police protection is necessary.

Schools:

The project is not expected to directly affect schools or indirectly generate a significant amount of new school enrollments. Potential impacts to schools would be mitigated through the payment of applicable development impact fees prior to the issuance of a Certificate of Occupancy.

Parks:

The project is located in the unincorporated portion of Shasta County which does not have a formal park and recreation program normally found within incorporated cities.

Other public facilities:

As noted in section XIV. Population and Housing, subsection a), the project is not expected to result in substantial population growth. Therefore, the project would not create a need for the provision of new or physically altered governmental facilities or physically altered governmental facilities the construction of which could cause significant environmental impacts. Development of the site would increase its value for property tax purposes. County General Fund revenue derived from property taxes can be spent on general government services, public health, the library system, animal control, and other public facilities at the discretion of the Shasta County Board of Supervisors. Any funds dedicated to the provision of new or physically altered governmental facilities or physically altered governmental facilities would be subject to review under the California Environmental Quality Act (CEQA).

Mitigation/Monitoring: None proposed.

XVI. <u>RECREATION</u>:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?				✓
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?				✓

Discussion: Based on the related documents listed in the Sources of Documentation for Initial Study Checklist, staff review of the project, observations on the project site and in the vicinity, the following findings can be made:

- a) The project would not increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated. The County does not have a neighborhood or regional parks system or other recreational facilities.
- b) The project would not include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment.

Mitigation/Monitoring: None proposed.

XVII. <u>TRANSPORTATION</u>: Would the project:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?			✓	
b) Conflict or be inconsistent with CEQA Guidelines Section 15064.3 subdivision (b)?				✓
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?				✓
d) Result in inadequate emergency access?				✓

Discussion: Based on the related documents listed in the Sources of Documentation for Initial Study Checklist, staff review of the

project, observations on the project site and in the vicinity, the following findings can be made:

- a) The project would not conflict with a program, ordinance or policy establishing measures of effectiveness for the performance of addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities. The project site is in a rural area with no transit, bicycle or pedestrian facilities or associated programs or plans in the project vicinity. The project would subdivide one parcel into four parcels and may result in an additional four units of residential development. A single-family residence would generally be expected to generate 9.52 trips per unit per day, including one trip during each of the morning and evening peak hours. Thus, the potential post-project residential development of 4 additional homesites would generate approximately 42 new vehicle trips per day.

Portions of Lakeview Drive do not meet the minimum 20-foot width and 4-foot shoulders for minor, rural roads as specified in the County Development standards. The average existing road width is 20 feet with and without shoulders. Improvements to the shoulders in the form of aggregate base backing and paving are proposed in five (5) locations where severe slopes along the roadway do not impede construction of shoulders. The Shasta County Department of Public Works supports an exception to the County Road Standards with implementation of the proposed road improvements.

- b) The project would not conflict or be inconsistent with State CEQA Guidelines Section 15064.3, subdivision (b). Senate Bill (SB) 743 of 2013 (State CEQA Guidelines Section 15064.3 et seq.) established a change in the metric to be applied in determining transportation impacts associated with development projects. Rather than the delay-based criteria associated with a Level of Service (LOS) analysis, the change in vehicle miles traveled (VMT) as a result of a project is now the basis for determining CEQA impacts with respect to transportation and traffic. As of the date of this analysis, the County of Shasta has not yet adopted thresholds of significance related to VMT. As a result, the project related VMT impacts were assessed based on guidance provided by the California Governor's Office of Planning and Research (OPR) in the publication Transportation Impacts (SB 743) CEQA Guidelines Update and Technical Advisory, 2018.

The project is expected to generate approximately 42 new vehicle trips per day. Pursuant to the Governor's Office of Planning and Research's December 2018 Technical Advisory on Evaluating Transportation Impacts in CEQA, this project would be considered a small project, generating significantly fewer than 110 trips per day, and is assumed to have a less than significant transportation impact.

- c) The project would not substantially increase hazards due to a geometric design feature or incompatible uses. Access to the project site would be from Lakeview Drive. Portions of Lakeview Drive do not meet the minimum 20-foot width and 4-foot shoulders for minor, rural roads as specified in the County Development standards. The average existing road width is 20 feet with and without shoulders. Improvements to the shoulders in the form of aggregate base backing and paving are proposed where severe slopes along the roadway do not impede construction of shoulders. The Shasta County Department of Public Works supports an exception to the County Road Standards with implementation of the proposed road improvements.
- d) The project would not result in inadequate emergency access. Access to the project site would be from Lakeview Drive. A 68-foot-long portion of Lakeview Drive does not meet the 20-foot minimum width with 1-foot shoulders as specified in the Shasta County Fire Safety Standards. The project includes improvements to Lakeview Drive including 2 fire engine turn-outs along Lakeview Drive and a hammerhead turn-around at the intersection of Skyline Drive and Lakeview Drive. The Shasta County Fire Department supports an exception to the fire safety standards with implementation of the proposed road improvements for emergency access. Access driveways would be designed to comply with County Code and inspected by the Shasta County Fire Department to ensure adequate emergency access.

Mitigation/Monitoring: None proposed.

<u>XVIII. TRIBAL CULTURAL RESOURCES:</u> Would the project:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
<p>a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:</p> <p>i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or</p> <p>ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.</p>				✓

Discussion: Based on the related documents listed in the Sources of Documentation for Initial Study Checklist, an Archaeological Inventory Survey completed by Brian F. Hill, MA, staff review of the project, observations on the project site and in the vicinity, the following findings can be made:

- a) The project would not cause a substantial adverse change in the significance of a tribal cultural resource as there is no evidence of historical resources at the site that are listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources; or a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1.

Information about the project was sent to the Northeast Information Center of the California Historical Resources Information System, which reviewed the project and commented that the project area is considered to be sensitive for cultural resources. A field survey, conducted on June 29, 2023, by Brian F. Hill, found no archaeological, historical, or paleontological resources within the project boundaries.

In accordance with Public Resources Code (PRC) Section 21080.3.1, the Wintu Tribe of Northern California & Toyon-Wintu Center (Tribe) filed and Shasta County received a request for formal notification of proposed projects within an area of Shasta County that is traditionally and culturally affiliated with the Tribe. Pursuant to PRC §21080.3.1 the Department of Resource Management sent a certified letter to notify the Tribe that the project was under review and to provide the Tribe 30 days from the receipt of the letter to request formal consultation on the project in writing. The Tribe received a certified letter of notification on July 31, 2024, with the 30-day notification period ending August 30, 2024. To date, no response has been received.

Mitigation/Monitoring: None proposed.

<u>XIX. UTILITIES AND SERVICE SYSTEMS:</u> Would the project:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
<p>a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas or telecommunications facilities, the construction or relocations of which could cause significant</p>				✓

XIX. UTILITIES AND SERVICE SYSTEMS: Would the project:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
environmental effects?				
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?				✓
c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?				✓
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?				✓
e) Comply with Federal, State, and local management and reduction statutes and regulations related to solid waste?				✓

Discussion: Based on the related documents listed in the Sources of Documentation for Initial Study Checklist, staff review of the project, observations on the project site and in the vicinity, the following findings can be made:

- a-c) The project would not require or result in the relocation or construction of new or expanded water or, wastewater treatment facilities or expansion of existing storm water drainage, electric power, natural gas or telecommunications facilities, the construction or relocations of which could cause significant environmental effects.

The project will be served by individual wells. Well log data from the vicinity indicates that there is sufficient groundwater to serve the project. On-site septic systems will be used. Each parcel has an identified site for sewage disposal and soil test information has demonstrated adequate area to meet sewage disposal standards. The project would not require or result in the construction of new storm water drainage facilities or expansion of existing facilities. This is a rural large-lot land division that does not require any drainage facilities.

- d) The project would not generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals. The project would be served by Waste Management disposal services and by the West Central Landfill which has sufficient capacity to accommodate the project's solid waste disposal needs.
- e) The project would comply with Federal, State, and local management and reduction statutes and regulations related to solid waste. The project will not generate any new solid waste other than common household waste.

Mitigation/Monitoring: None proposed.

XX. WILDFIRE: If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?			✓	
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?			✓	
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the				✓

XX. WILDFIRE: If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
environment?				
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?			✓	

Discussion: Based on the related documents listed in the Sources of Documentation for Initial Study Checklist, staff review of the project, observations on the project site and in the vicinity, the following findings can be made:

- a) A review of the project and the Shasta County and City of Anderson Multi-Jurisdictional Hazard Mitigation Plan, and the Shasta County Emergency Operations Plan, indicates that the proposed project would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. Increased residential growth can significantly increase a jurisdiction's risk to wildfires. If the growth occurs in the WUI or Intermix, the total risk increases. Conformance to the Shasta County Fire Safety Standards related to construction would mitigate the risk of the proposed new residential lots by introducing structural standards which help prevent the spread of wildfire, creating defensible spaces and buffer zones.
- b) The project is in an area which is designated a "VERY HIGH" fire hazard severity zone. The property is within the State Responsibility Area and receives fire protection services from the California Department of Forestry and Fire Protection (Cal Fire) which operates as the Fire Department for the County. The proposed subdivision and potential post-project development will be required to comply with the Shasta County Fire Safety Standards related to construction. The four proposed residential parcels are not expected to generate a significant increase in traffic on Lakeview Drive during an evacuation. A 68-foot-long portion of Lakeview Drive does not meet the 20-foot minimum width with 1-foot shoulders as specified in the Shasta County Fire Safety Standards. The project includes improvements to Lakeview Drive that would improve circulation for fire fighters in the event of a fire emergency including 2 fire engine turn-outs along Lakeview Drive and a hammerhead turn-around at the intersection of Skyline Drive and Lakeview Drive, and based on the proposed improvements, the Shasta County Fire Department supports an exception to the fire safety standards for the 68-foot-long portion of Lakeview Drive that does not meet the Shasta County Fire Safety Standards. With the proposed improvements for emergency access and the limited additional post-project residential development, the project would not result in the additional levels of fire protection in order to maintain acceptable service ratios, response times or other performance objectives for fire protection.
- c) The project would not require the installation or maintenance of new associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment.
- d) The project would not expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes. Specific development envelopes are designated on each of the four proposed parcels to restrict future residential development to areas with less than 30% slopes. All remaining land within the project site would be designated as non-building/limited-disturbance area to avoid impacts to the existing drainages and slope stability. The project includes improvements to the road shoulders in five (5) locations and construction of 2 fire turn-outs on Lakeview Drive and a hammerhead turnaround at the intersection of Skyline Drive and Lakeview Drive. A grading permit will be required for the road and driveway improvements and any future development on proposed parcels, and the grading permit includes requirements for erosion and siltation containment on- and off-site. All future residential construction would also require a building permit and if necessary, engineering and a geotechnical report to ensure structural stability and slope stability. Due to the limited areas of proposed disturbance, and with strict conformance to the Building Code and provisions of any issued grading permit(s), the project would not substantially expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes.

Mitigation/Monitoring: None proposed.

XXI. <u>MANDATORY FINDINGS OF SIGNIFICANCE:</u>	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below the self-sustaining levels, threaten to eliminate a		✓		

XXI. <u>MANDATORY FINDINGS OF SIGNIFICANCE:</u>	Potentially Significant Impact	Less-Than-Significant With Mitigation Incorporated	Less-Than-Significant Impact	No Impact
plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?				
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection the effects of past projects, the effects of other current projects, and the effects of probable future projects)?			✓	
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?			✓	

Discussion:

- a) Based on the discussion and findings in Section IV. Biological Resources, there is evidence to support a finding that the project would have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below the self-sustaining levels, threaten to eliminate a plant or animal community, or substantially reduce the number or restrict the range of a rare or endangered plant or animal. With the incorporation of mitigation measures into the project specified in Section IV. Biological Resources, the impacts will be less-than-significant.

Based on the discussion and findings in Section V. Cultural Resources, there is no evidence to support a finding that the project would have the potential to eliminate important examples of the major periods of California history or prehistory.

- b) Based on the discussion and findings in all Sections above, there is no evidence to suggest that the project would have significant impacts that are cumulatively considerable.
- c) Based on the discussion and findings in all Sections above, there is no evidence to support a finding that the project would have environmental effects which would cause substantial adverse effects on human beings, either directly or indirectly. Any exposure to hazardous materials or other impacts to humans are considered to be less-than-significant.

Mitigation/Monitoring: With the mitigation measures being proposed, the impacts from the project would be less-than-significant. See the attached Mitigation Monitoring Program (MMP) for a complete listing of the proposed mitigation measures, timing/implementation of the measures, and enforcement/monitoring agent(s).

INITIAL STUDY COMMENTS

PROJECT NUMBER ZA23-0004 & PM22-0005 – Tellstrom

GENERAL COMMENTS:

Special Studies: The following project-specific studies have been completed for the proposal and will be considered as part of the record of decision for the Mitigated Negative Declaration. These studies are available for review through the Shasta County Planning Division and online via the link [CEQA Documents and Notices \(non-EIR documents\) | Shasta County California](https://www.shastacounty.gov/planning/page/ceqa-documents-and-notice-non-eir-documents) or via the browser web address at: <https://www.shastacounty.gov/planning/page/ceqa-documents-and-notice-non-eir-documents>.

1. Biological Review for Tellstrom Lakeview Drive Property, Wildland Resource Managers, October 2024
2. (Confidential) Archaeological Inventory Survey, 18217 Skyline Drive, Lakehead, CA 96051, Brian F. Hill, MA, July 2023

Agency Referrals: Prior to an environmental recommendation, referrals for this project were sent to agencies thought to have responsible agency or reviewing agency authority. The responses to those referrals (attached), where appropriate, have been incorporated into this document and will be considered as part of the record of decision for the Mitigated Negative Declaration. Copies of all referral comments may be reviewed through the Shasta County Planning Division. To date, referral comments have been received from the following State agencies or any other agencies which have identified CEQA concerns:

1. California Department of Fish and Wildlife
2. United States Forest Service

Conclusion/Summary: Based on a field review by the Planning Division and other agency staff, early consultation review comments from other agencies, information provided by the applicant, and existing information available to the Planning Division, the project, as revised and mitigated, is not anticipated to result in any significant environmental impacts.

SOURCES OF DOCUMENTATION FOR INITIAL STUDY CHECKLIST

All headings of this source document correspond to the headings of the initial study checklist. In addition to the resources listed below, initial study analysis may also be based on field observations by the staff person responsible for completing the initial study. Most resource materials are on file in the office of the Shasta County Department of Resource Management, Planning Division, 1855 Placer Street, Suite 103, Redding, CA 96001, Phone: (530) 225-5532.

GENERAL PLAN AND ZONING

1. Shasta County General Plan and land use designation maps.
2. Applicable community plans, airport plans and specific plans.
3. Shasta County Zoning Ordinance (Shasta County Code Title 17) and zone district maps.

ENVIRONMENTAL IMPACTS

I. AESTHETICS

1. Shasta County General Plan, Section 6.8 Scenic Highways, and Section 7.6 Design Review.
2. Zoning Standards per Shasta County Code, Title 17.

II. AGRICULTURAL AND FORESTRY RESOURCES

1. Shasta County General Plan, Section 6.1 Agricultural Lands.
2. Shasta County Important Farmland 2016 Map, California Department of Conservation.
3. Shasta County General Plan, Section 6.2 Timber Lands.
4. Soil Survey of Shasta County Area, California, published by U.S. Department of Agriculture, Soil Conservation Service and Forest Service, August 1974.

III. AIR QUALITY

1. Shasta County General Plan Section, 6.5 Air Quality.
2. Northern Sacramento Valley Air Basin, 2018 Air Quality Attainment Plan.
3. Records of, or consultation with, the Shasta County Department of Resource Management, Air Quality Management District.

IV. BIOLOGICAL RESOURCES

1. Shasta County General Plan, Section 6.2 Timberlands, and Section 6.7 Fish and Wildlife Habitat.
2. Designated Endangered, Threatened, or Rare Plants and Candidates with Official Listing Dates, published by the California Department of Fish and Wildlife.
3. Natural Diversity Data Base Records of the California Department of Fish and Wildlife.
4. Federal Listing of Rare and Endangered Species.
5. Shasta County General Plan, Section 6.7 Fish and Wildlife Habitat.
6. State and Federal List of Endangered and Threatened Animals of California, published by the California Department of Fish and Wildlife.
7. Natural Diversity Data Base Records of the California Department of Fish and Wildlife.

V. CULTURAL RESOURCES

1. Shasta County General Plan, Section 6.10 Heritage Resources.
2. Records of, or consultation with, the following:
 - a. The Northeast Information Center of the California Historical Resources Information System, Department of Anthropology, California State University, Chico.
 - b. State Office of Historic Preservation.
 - c. Local Native American representatives.
 - d. Shasta Historical Society.

VI. ENERGY

1. California Global Warming Solutions Act of 2006 (AB 32)
2. California Code of Regulations Title 24, Part 6 – California Energy Code
3. California Code of Regulations Title 24, Part 11 – California Green Building Standards Code (CALGreen)

VII. GEOLOGY AND SOILS

1. Shasta County General Plan, Section 5.1 Seismic and Geologic Hazards, Section 6.1 Agricultural Lands, and Section 6.3 Minerals.
2. County of Shasta, Erosion and Sediment Control Standards, Design Manual
3. Soil Survey of Shasta County Area, California, published by U.S. Department of Agriculture, Soil Conservation Service and Forest Service, August 1974.
4. Alquist - Priolo, Earthquake Fault Zoning Maps.

VIII. GREENHOUSE GAS EMISSIONS

1. Shasta Regional Climate Action Plan
2. California Air Pollution Control Officers Association (White Paper) CEQA & Climate Change, Evaluating and Addressing

IX. HAZARDS AND HAZARDOUS MATERIALS

1. Shasta County General Plan, Section 5.4 Fire Safety and Sheriff Protection, and Section 5.6 Hazardous Materials.
3. County of Shasta Multi-Hazard Functional Plan
3. Records of, or consultation with, the following:
 - a. Shasta County Department of Resource Management, Environmental Health Division.
 - b. Shasta County Fire Prevention Officer.
 - c. Shasta County Sheriff's Department, Office of Emergency Services.
 - d. Shasta County Department of Public Works.
 - e. California Environmental Protection Agency, California Regional Water Quality Control Board, Central Valley Region.

X. HYDROLOGY AND WATER QUALITY

1. Shasta County General Plan, Section 5.2 Flood Protection, Section 5.3 Dam Failure Inundation, and Section 6.6 Water Resources and Water Quality.
2. Flood Boundary and Floodway Maps and Flood Insurance Rate Maps for Shasta County prepared by the Federal Emergency Management Agency, as revised to date.
3. Records of, or consultation with, the Shasta County Department of Public Works acting as the Flood Control Agency and Community Water Systems manager.

XI. LAND USE AND PLANNING

1. Shasta County General Plan land use designation maps and zone district maps.
2. Shasta County Assessor's Office land use data.

XII. MINERAL RESOURCES

1. Shasta County General Plan Section 6.3 Minerals.

XIII. NOISE

1. Shasta County General Plan, Section 5.5 Noise and Technical Appendix B.

XIV. POPULATION AND HOUSING

1. Shasta County General Plan, Section 7.1 Community Organization and Development Patterns.
2. Census data from U.S. Department of Commerce, Bureau of the Census.
3. Census data from the California Department of Finance.
4. Shasta County General Plan, Section 7.3 Housing Element.
5. Shasta County Department of Housing and Community Action Programs.

XV. PUBLIC SERVICES

1. Shasta County General Plan, Section 7.5 Public Facilities.
2. Records of, or consultation with, the following:
 - a. Shasta County Fire Prevention Officer.
 - b. Shasta County Sheriff's Department.
 - c. Shasta County Office of Education.
 - d. Shasta County Department of Public Works.

XVI. RECREATION

1. Shasta County General Plan, Section 6.9 Open Space and Recreation.

XVII. TRANSPORTATION/TRAFFIC

1. Shasta County General Plan, Section 7.4 Circulation.
2. Records of, or consultation with, the following:
 - a. Shasta County Department of Public Works.
 - b. Shasta County Regional Transportation Planning Agency.
 - c. Shasta County Congestion Management Plan/Transit Development Plan.
3. Institute of Transportation Engineers, Trip Generation Rates.

XVIII. TRIBAL CULTURAL RESOURCES

1. Tribal Consultation in accordance with Public Resources Code section 21080.3.1

XIX. UTILITIES AND SERVICE SYSTEMS

1. Records of, or consultation with, the following:
 - a. Pacific Gas and Electric Company.
 - b. Pacific Power and Light Company.
 - c. Pacific Bell Telephone Company.
 - d. Citizens Utilities Company.
 - e. T.C.I.

- f. Marks Cablevision.
- g. Shasta County Department of Resource Management, Environmental Health Division.
- h. Shasta County Department of Public Works.

XX. WILDFIRE

- 1. Office of the State Fire Marshall-CALFIRE Fire Hazard Severity Zone Maps

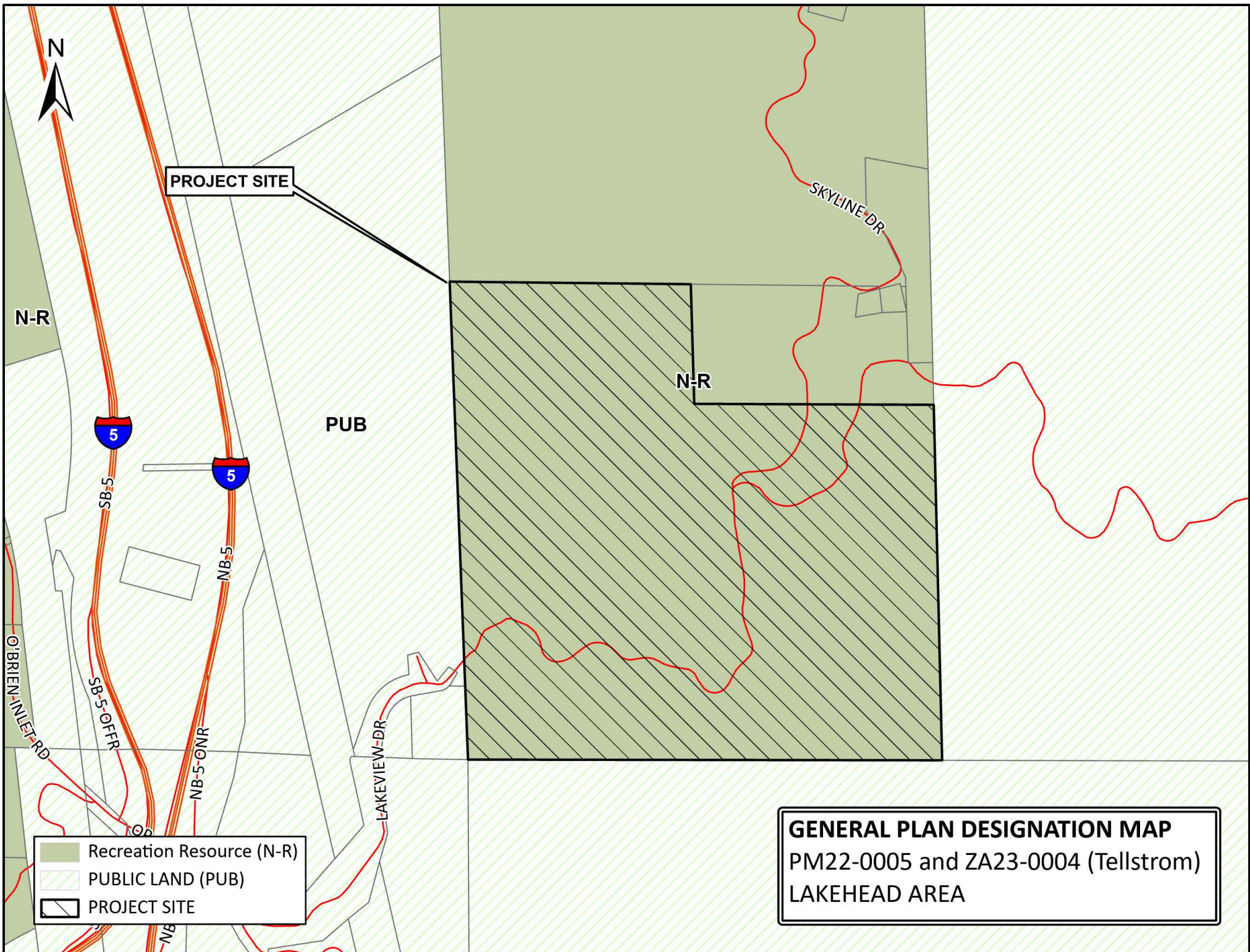
XXI. MANDATORY FINDINGS OF SIGNIFICANCE

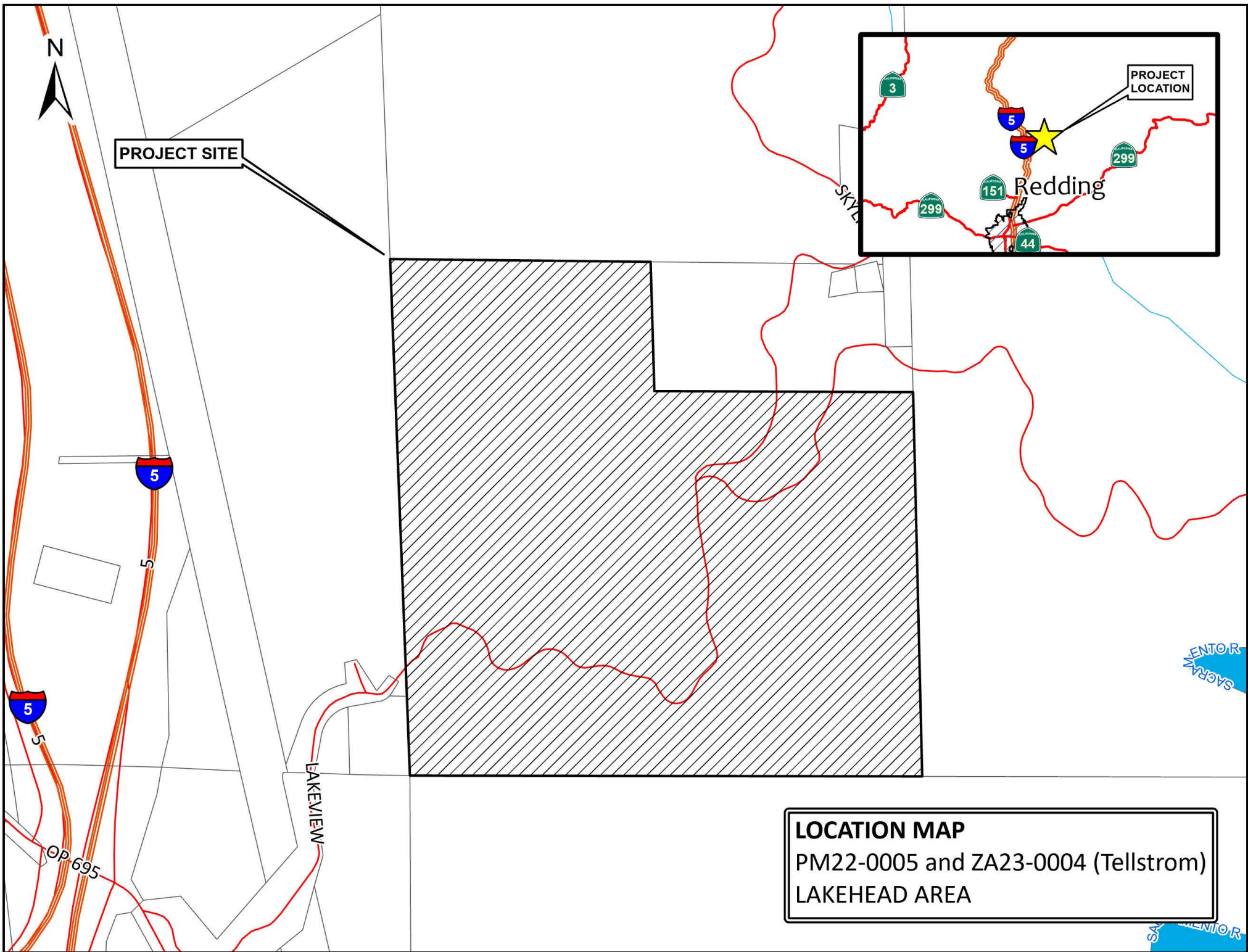
None

**MITIGATION MONITORING PROGRAM (MMP)
FOR ZONE AMENDMENT 23-0004 & PARCEL MAP 22-0005 – Tellstrom**

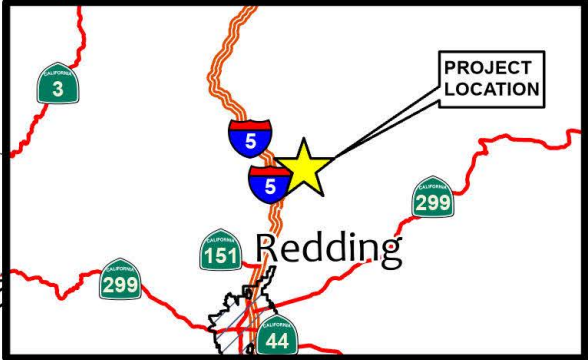
Mitigation Measure/Condition	Timing/Implementation	Enforcement/Monitoring	Verification (Date & Initials)
Section IV. Biological Resources			
IV.a.1) To mitigate potential impacts to bats the applicant shall: <ul style="list-style-type: none"> a. Conduct large tree removal outside of the bat maternity season and bat hibernacula (September 1 to October 31). b. If removal or disturbance of trees will occur during the bat maternity season, when young are non-volant (March 1 – Aug. 31), or during the bat hibernacula (November 1 – March 1) large trees (those greater than 5 inches in diameter) shall be thoroughly surveyed for cavities, crevices, and/or exfoliated bark that may have high potential to be used by bats within 14 days of the start of construction. The survey shall be conducted by a qualified biologist or arborist familiar with these features to determine if tree features and habitat elements are present within the pine trees. Trees with features potentially suitable for bat roosting should be clearly marked prior to removal and humane evictions must be conducted by or under the supervision of a biologist with specific experience conducting exclusions. Humane exclusions could consist of a two-day tree removal process whereby the non-habitat trees and brush are removed along with certain tree limbs on the first day and the remainder of the tree on the second day. 	Prior to issuance of a Grading or Building Permit and Inspection Prior to Final Permit Approval	Resource Management, Planning Division / CA Department of Fish and Wildlife	
IV.a.2) In order to avoid impacts to listed and rare plants plant species the following shall be implemented: <ul style="list-style-type: none"> a. Prior to recording the final parcel map, a qualified biologist or botanist shall conduct a botanical survey following CDFW'S March 2018 Protocols for Surveying and Evaluating Impacts to Special Status Native Plants Populations and Sensitive Natural Communities in the spring during the blooming period (March-April), unless it can be clearly demonstrated that potential habitat for the listed and rare plants mentioned in this section is not present on site through consultation with CDFW.; and b. If the botanical survey results in a positive siting of any listed and rare plant species within the proposed development envelopes, a protected non-building/non-disturbance area(s) encompassing the area where the species was found and the associated habitat shall be shown on the final parcel map. If avoidance is infeasible, a qualified botanist shall prepare and provide for alternative measures, including but not limited to off-site a 	Prior to Recording of the Final Map	Resource Management, Planning Division	

Mitigation Measure/Condition	Timing/Implementation	Enforcement/Monitoring	Verification (Date & Initials)
<p>conservation easement at a 2:1 ratio, and seed harvesting and/or top soil removal and stockpiling for a seed bank and/or transplanting at an appropriate off-site location, with the Planning Division, who may seek guidance from the California Department of Fish and Wildlife, and to ensure impacts to the sensitive species are less than significant by analyzing the degree of potential impacts, and utilizing tools These measures would only be necessary if sensitive or endangered botanical species are discovered and significant impacts from development would occur.</p> <p>IV.d.1) In order to avoid impacts to nesting migratory birds and/or raptors protected under federal Migratory Bird Treaty Act and California Fish and Game Code Section 3503 and Section 3503.5, including their nests and eggs, one of the following shall be implemented:</p> <ol style="list-style-type: none"> Vegetation removal and other ground-disturbance activities associated with improvements for the map or construction on subsequent lots shall occur between September 1 and January 31 when birds are not nesting; or If vegetation removal or ground disturbance activities occur during the nesting season (February 1 through August 31), a pre-construction nesting survey shall be conducted by a qualified biologist within 14 days of vegetation removal or construction activities. If an active nest is located during the preconstruction surveys, a non-disturbance buffer shall be established around the nest by a qualified biologist in consultation with the Department of Fish and Wildlife (CDFW). No vegetation removal or construction activities shall occur within this non-disturbance buffer until the young have fledged, as determined through additional monitoring by the qualified biologist. The results of the pre-construction surveys shall be sent electronically to CDFW at R1CEQARedding@wildlife.ca.gov. 	<p>Prior to Tree Removal for Subdivision Improvements and Construction on the Parcels</p>	<p>Resource Management, Planning Division/Building Division</p>	





PROJECT SITE



PROJECT LOCATION

Redding

LOCATION MAP
PM22-0005 and ZA23-0004 (Tellstrom)
LAKEHEAD AREA

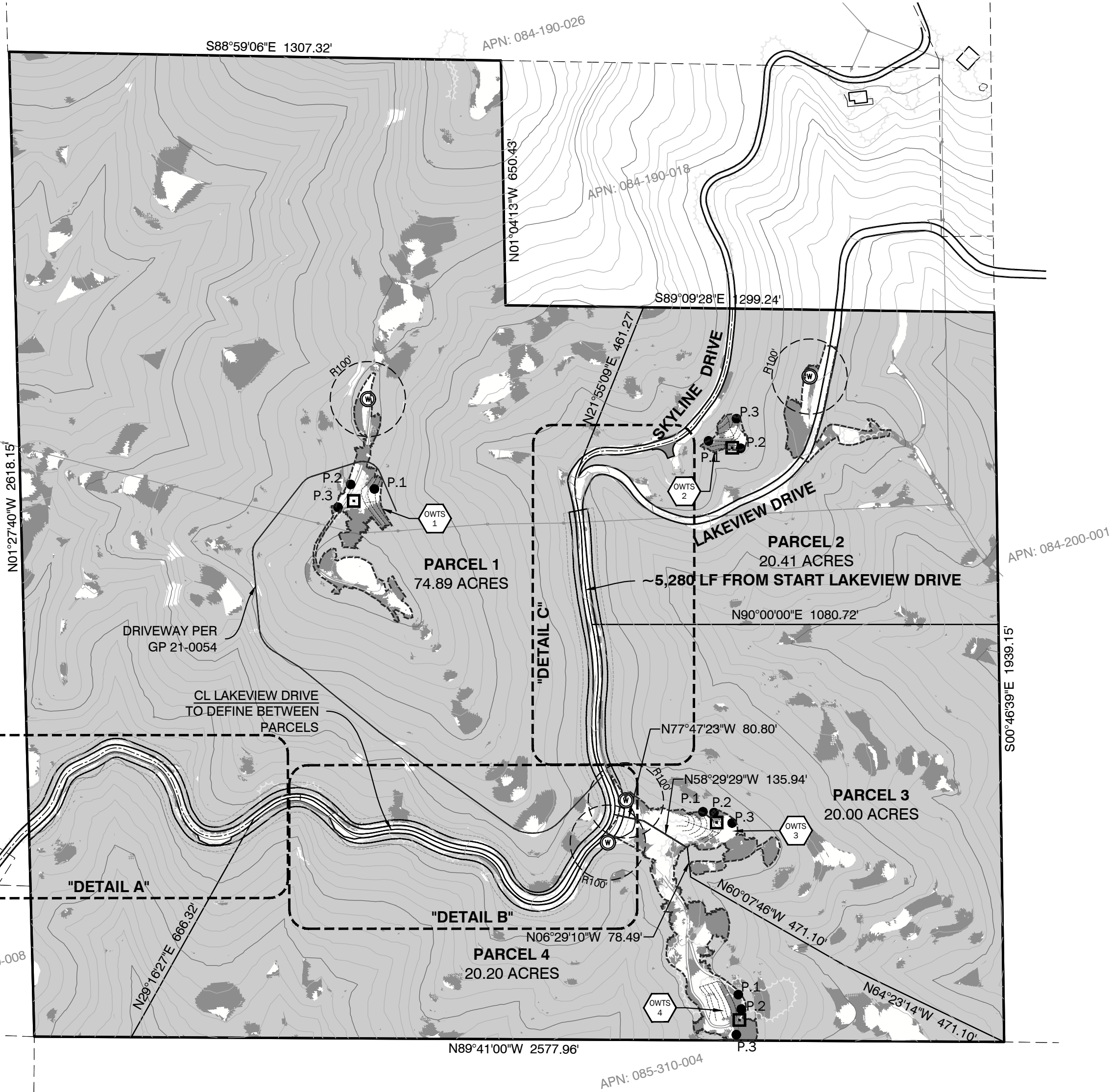
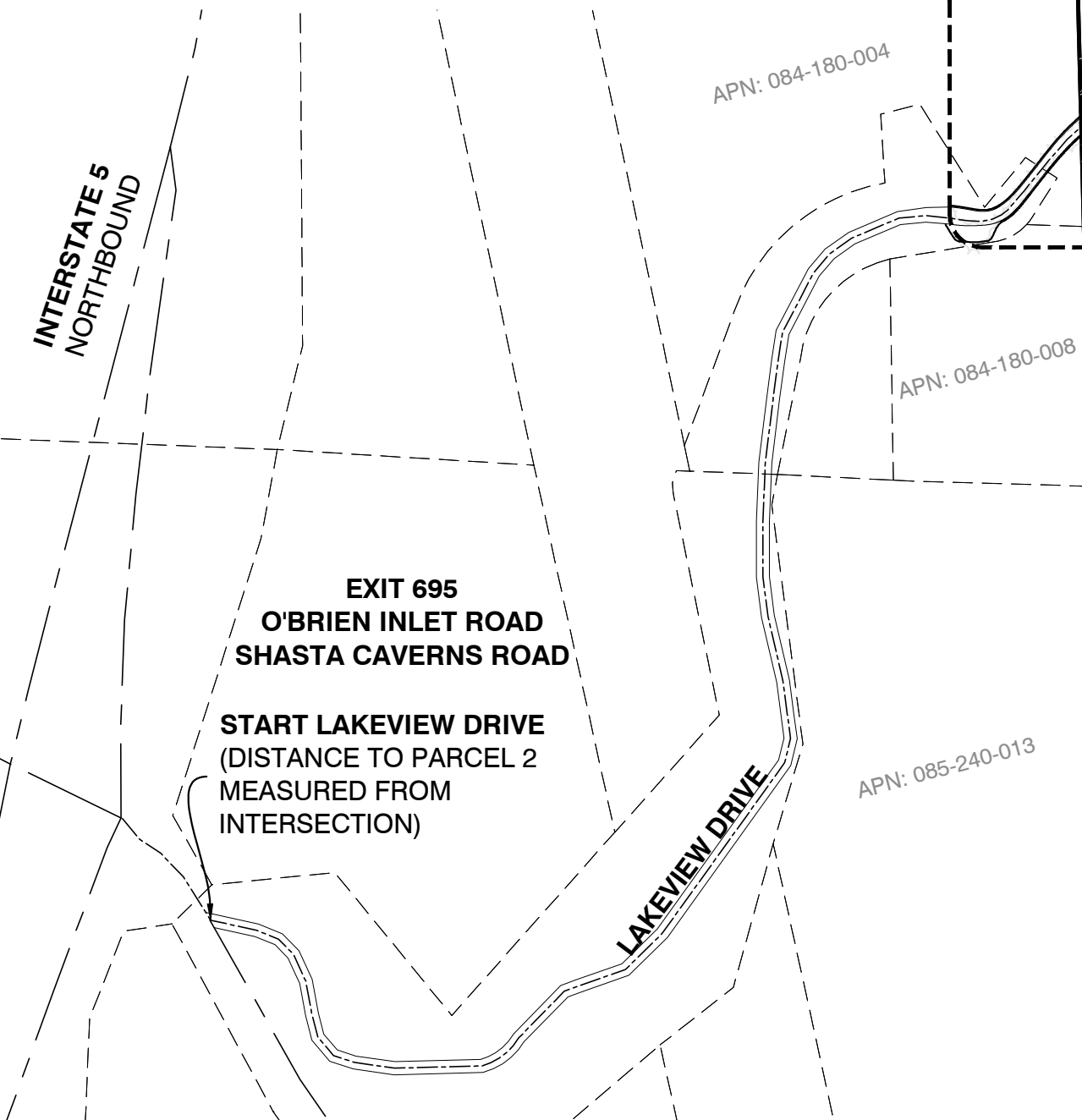
Slope Analysis (Parcel 1)				
#	Color	Min.	Max.	Area (Acres)
1		0.05%	20.00%	3.15
2		20.00%	30.00%	4.65
3		30.00%	150.00%	67.09

Slope Analysis (Parcel 2)				
#	Color	Min.	Max.	Area (Acres)
1		0.05%	20.00%	1.63
2		20.00%	30.00%	0.95
3		30.00%	150.00%	17.83

Slope Analysis (Parcel 3)				
#	Color	Min.	Max.	Area (Acres)
1		0.05%	20.00%	0.82
2		20.00%	30.00%	1.83
3		30.00%	150.00%	17.27

Slope Analysis (Parcel 4)				
#	Color	Min.	Max.	Area (Acres)
1		0.05%	20.00%	1.60
2		20.00%	30.00%	1.45
3		30.00%	150.00%	16.99

O.W.T.S. Leach Line Analysis				
Parcel	Lowest Avg. Perc Rate	Primary (4 bdrm)	Secondary (4 bdrm)	Lines Provided
1	19 min/inch	225 LF/4 SF	225 LF/4 SF	6 @ 75'
2	19 min/inch	225 LF/4 SF	225 LF/4 SF	12 @ 37.5'
3	18 min/inch	220 LF/4 SF	220 LF/4 SF	12 @ 37.5'
4	33 min/inch	300 LF/4 SF	300 LF/ 4 SF	6 @ 100'



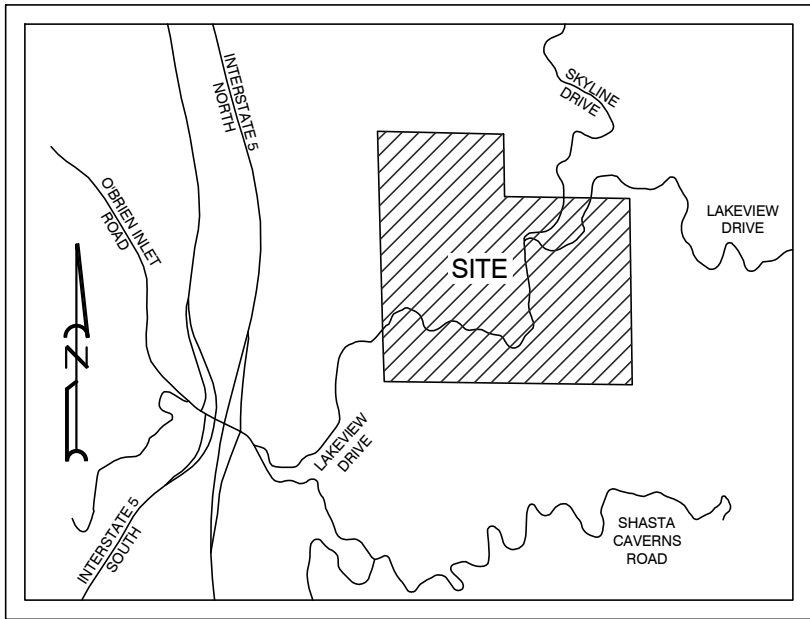
LEGEND

- PROPERTY BOUNDARY
- ADJACENT PARCEL
- CENTERLINE EX. ROAD
- BUILDING SITE (SLOPES < 30%)
- PROPOSED LEECHFIELD (W/ PERC. TEST HOLES)
- PROPOSED WELL - 100' FROM SEPTIC (LOCATION BY DIAMOND CORE)
- PERCOLATION TEST LOCATION
- TEST PIT LOCATION
- 12KV POWER LINE (PG&E)

PLANS PREPARED UNDER THE SUPERVISION OF:



EXHIBIT "A"



VICINITY MAP
NOT TO SCALE

OWNER
KEN TELLSTROM
18217 SKYLINE DRIVE
LAKEHEAD, CA 96051

EXISTING USE
VACANT

PROPOSED USE
RESIDENTIAL

ENGINEER
DUANE K. MILLER
CIVIL ENGINEER, INC.
PO BOX 1307
ANDERSON, CA 96007

PROJECT ADDRESS
VACANT PARCEL
SHASTA COUNTY, CA

WATER/SEWER
WELL/SEPTIC

ELECTRICITY
PG&E/SOLAR

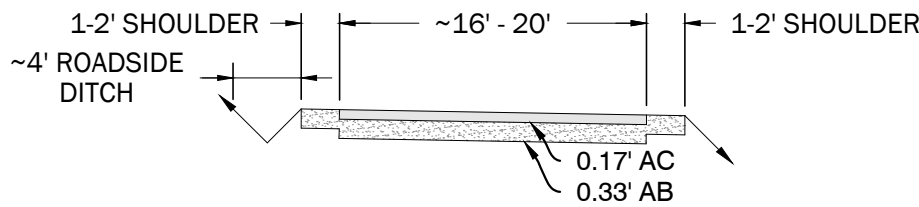
TELEPHONE
AT&T

APN
084-190-008

TOTAL AREA
132.90 ACRES

ZONING
NRA-S: NATIONAL RECREATION
AREA SHASTA UNIT

GENERAL PLAN
N-R: RECREATION RESOURCE



TYPICAL SECTION: EXISTING LAKEVIEW DRIVE
SCALE: NTS

Buildable Areas			
PARCEL	CONTIGUOUS AREA <30% SLOPES (ACRE)	BUILDING SITE AREA (ACRE)	O.W.T.S. AREA (ACRE)
1	1.22	1.07	0.15
2	0.68	0.51	0.17
3	0.87	0.63	0.24
4	1.48	1.01	0.47

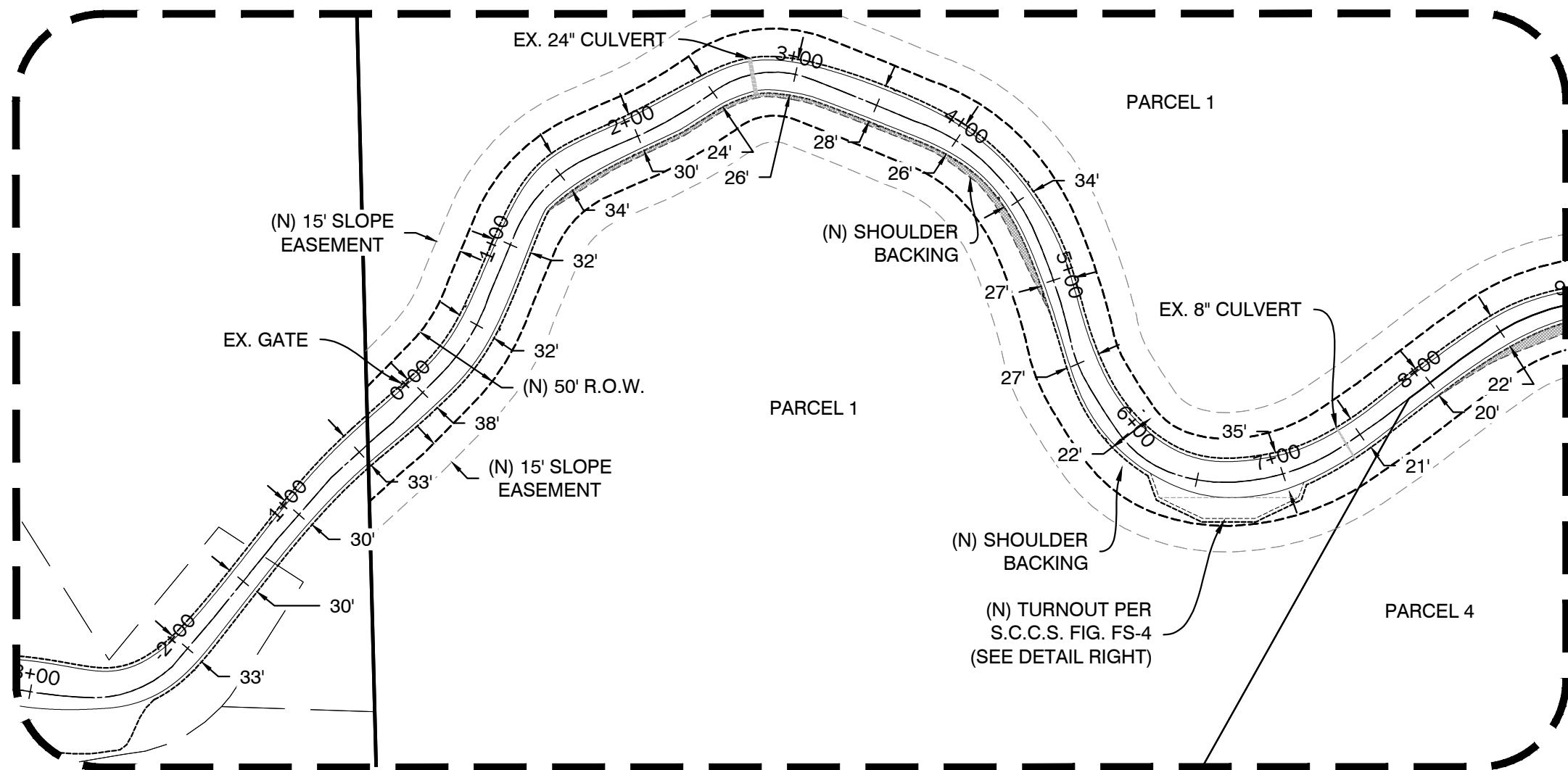
TENTATIVE PARCEL MAP 22-0005

BEING A PORTION OF THE SW 1/4 OF THE WEST 1/2 OF SECTION 10, T. 34N., R.4W., M.D.M., UNINCORPORATED TERRITORY OF SHASTA COUNTY, CALIFORNIA

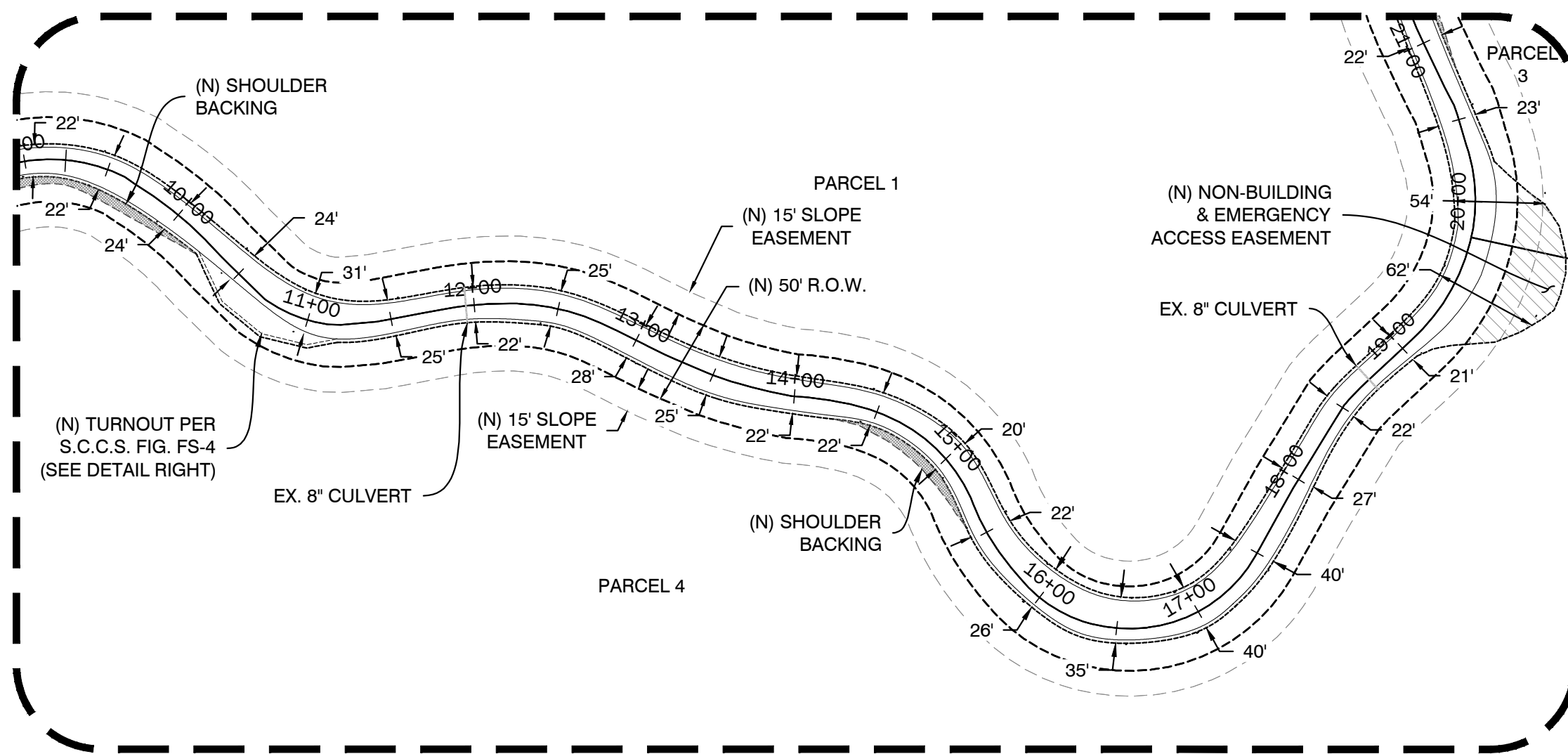
FOR
KEN TELLSTROM
BY
DUANE K. MILLER
CIVIL ENGINEER, INC.
6172 MEISTER WAY, UNIT 1
PO BOX 1307
ANDERSON, CA 96007
(530) 365-5610

SCALE 1" = 250'

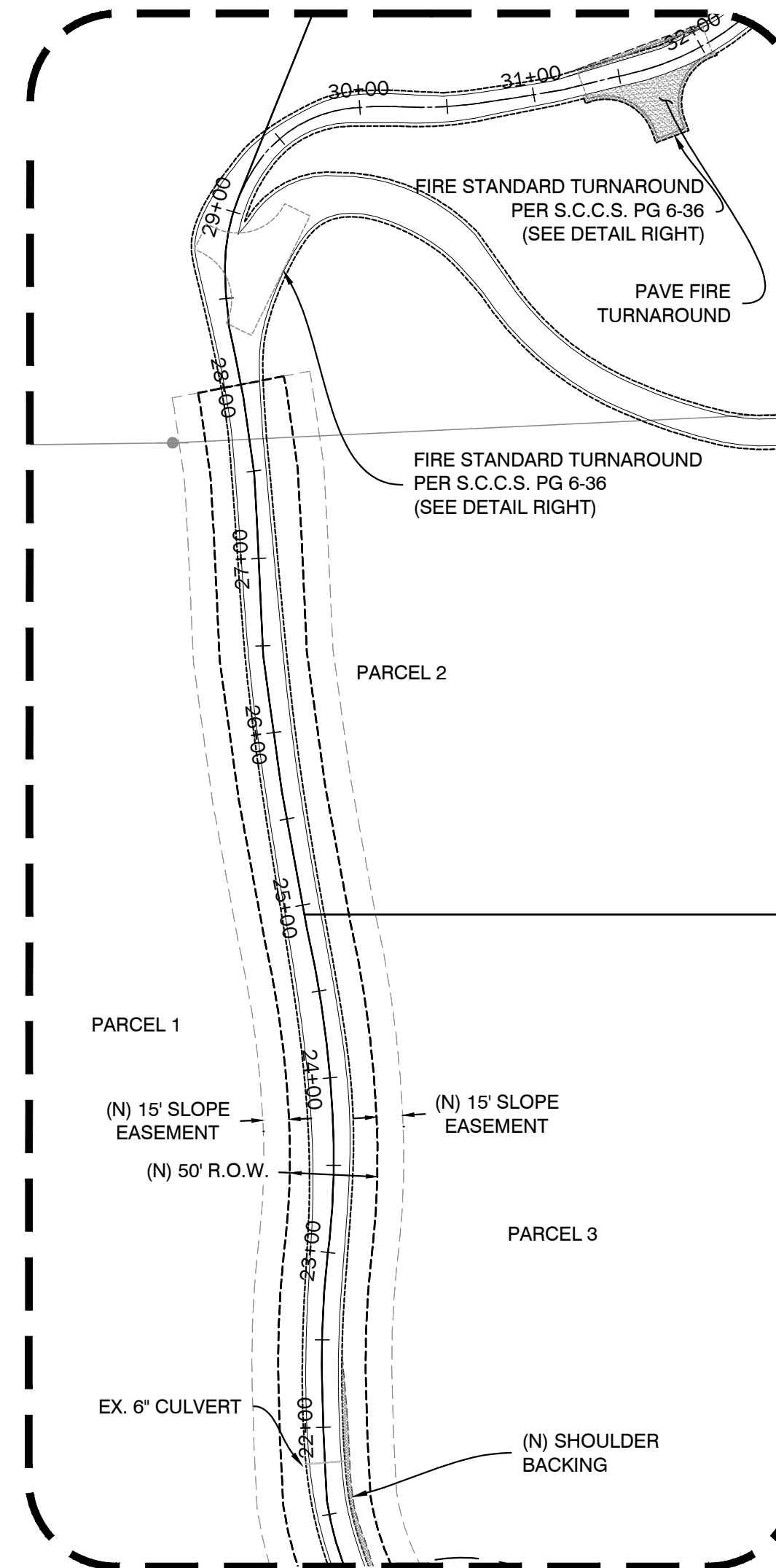
SHEET 1 OF 3



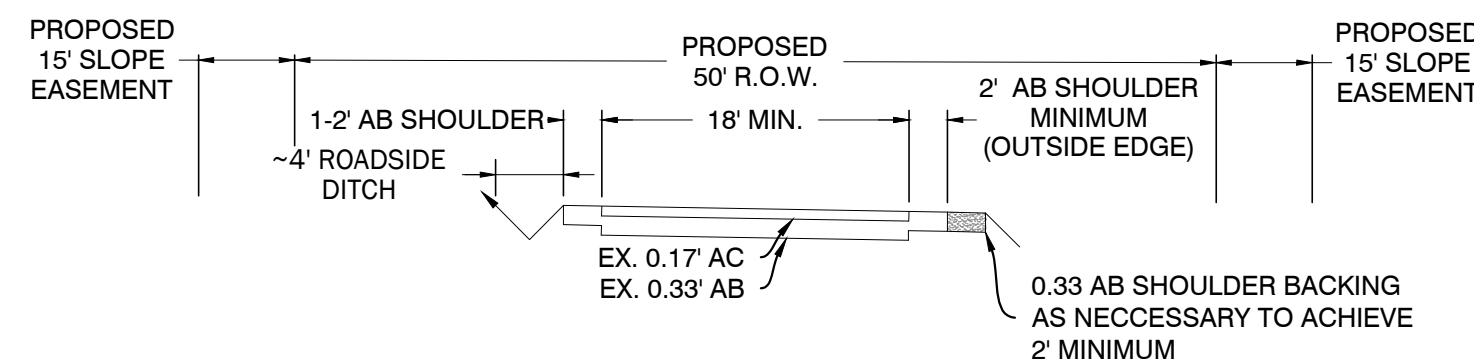
"DETAIL A"



"DETAIL B"



"DETAIL C"



TYPICAL SECTION: PROPOSED LAKEVIEW DRIVE
SCALE: NTS

LEGEND

- PROPERTY BOUNDARY
- - - ADJACENT PARCEL
- - - CENTERLINE EX. ROAD
- - - BUILDING SITE (SLOPES < 30%)
- ▨ PROPOSED LEECHFIELD (W/ PERC. TEST HOLES)
- P.1 PROPOSED WELL - 100' FROM SEPTIC (LOCATION BY DIAMOND CORE)
- PERCOLATION TEST LOCATION
- 12KV POWER LINE (PG&E)

PLANS PREPARED UNDER
THE SUPERVISION OF:



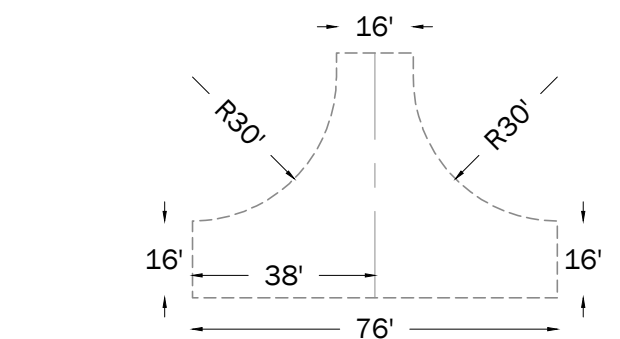
TENTATIVE PARCEL MAP 22-0005

BEING A PORTION OF THE SW 1/4 OF THE WEST 1/2 OF
SECTION 10, T. 34N., R. 4W., M.D.M., UNINCORPORATED
TERRITORY OF SHASTA COUNTY, CALIFORNIA

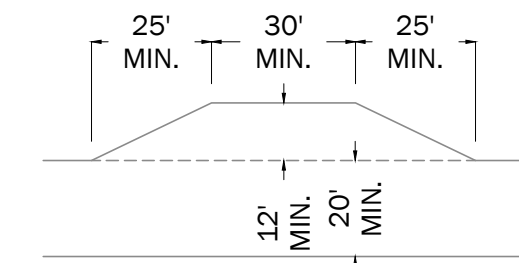
FOR
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DUANE K. MILLER
CIVIL ENGINEER, INC.
6172 MEISTER WAY, UNIT 1
PO BOX 1307
ANDERSON, CA 96007
(530) 365-5610

SCALE 1" = 80'

SHEET 2 OF 3



DETAIL: FIRE STANDARD TURNAROUND
SCALE: NTS; S.C.C.S. PG 6-36

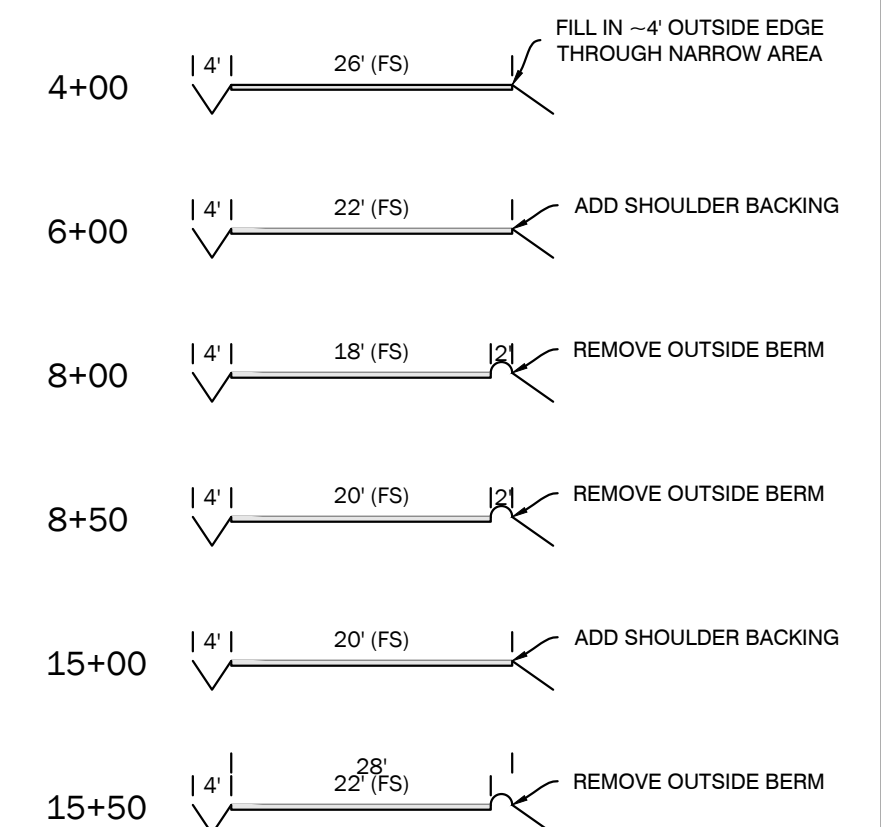


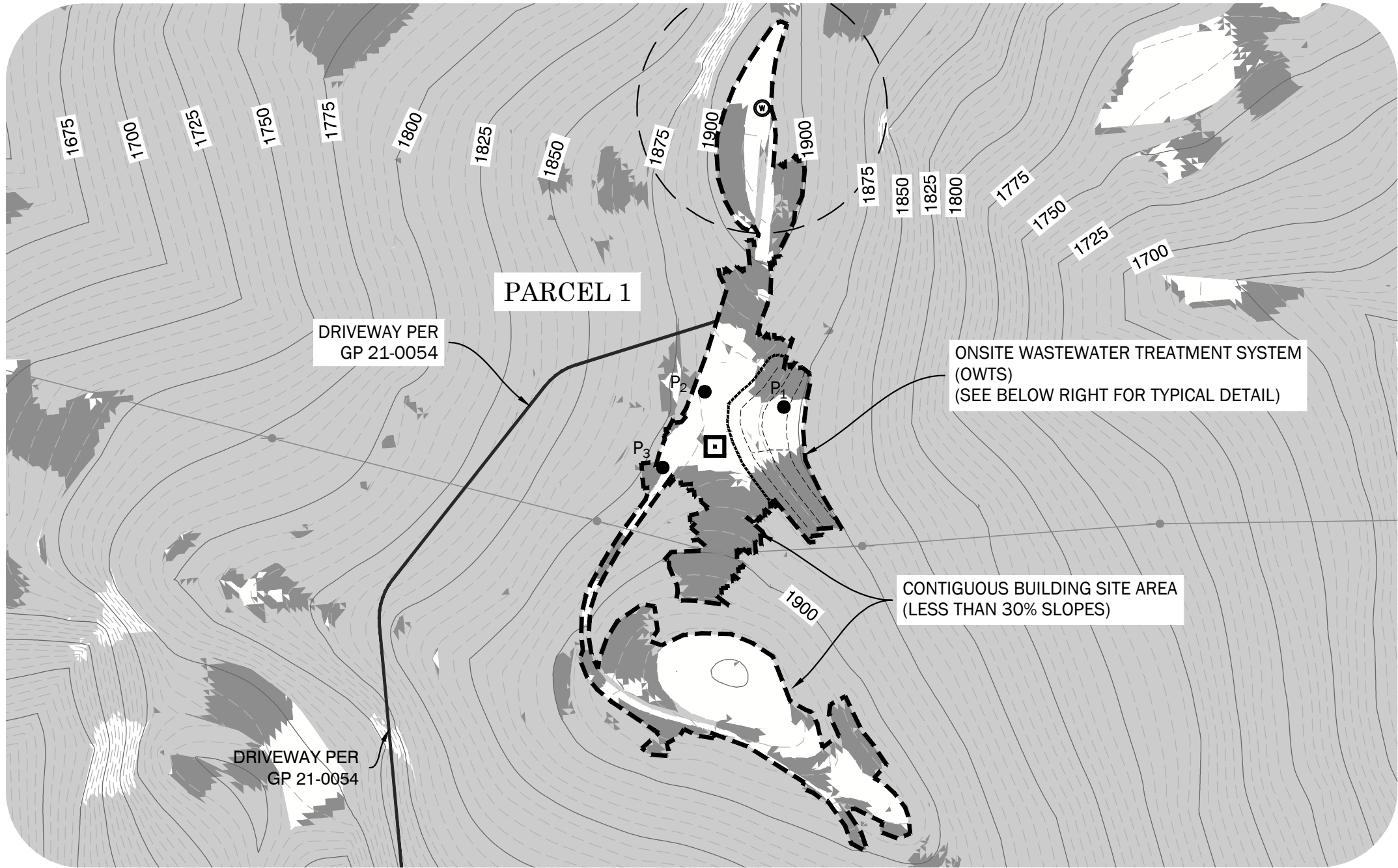
DETAIL: TURNOUT FOR FIRE HYDRANTS
SCALE: NTS; S.C.C.S. FIG. FS-4
NOTE: DETAIL FOR TURNOUT ONLY, NO FIRE HYDRANT PROPOSED

MATERIAL QUANTITIES	
TYPE	AREA (SF)
HMA	1,000
AB	5,000

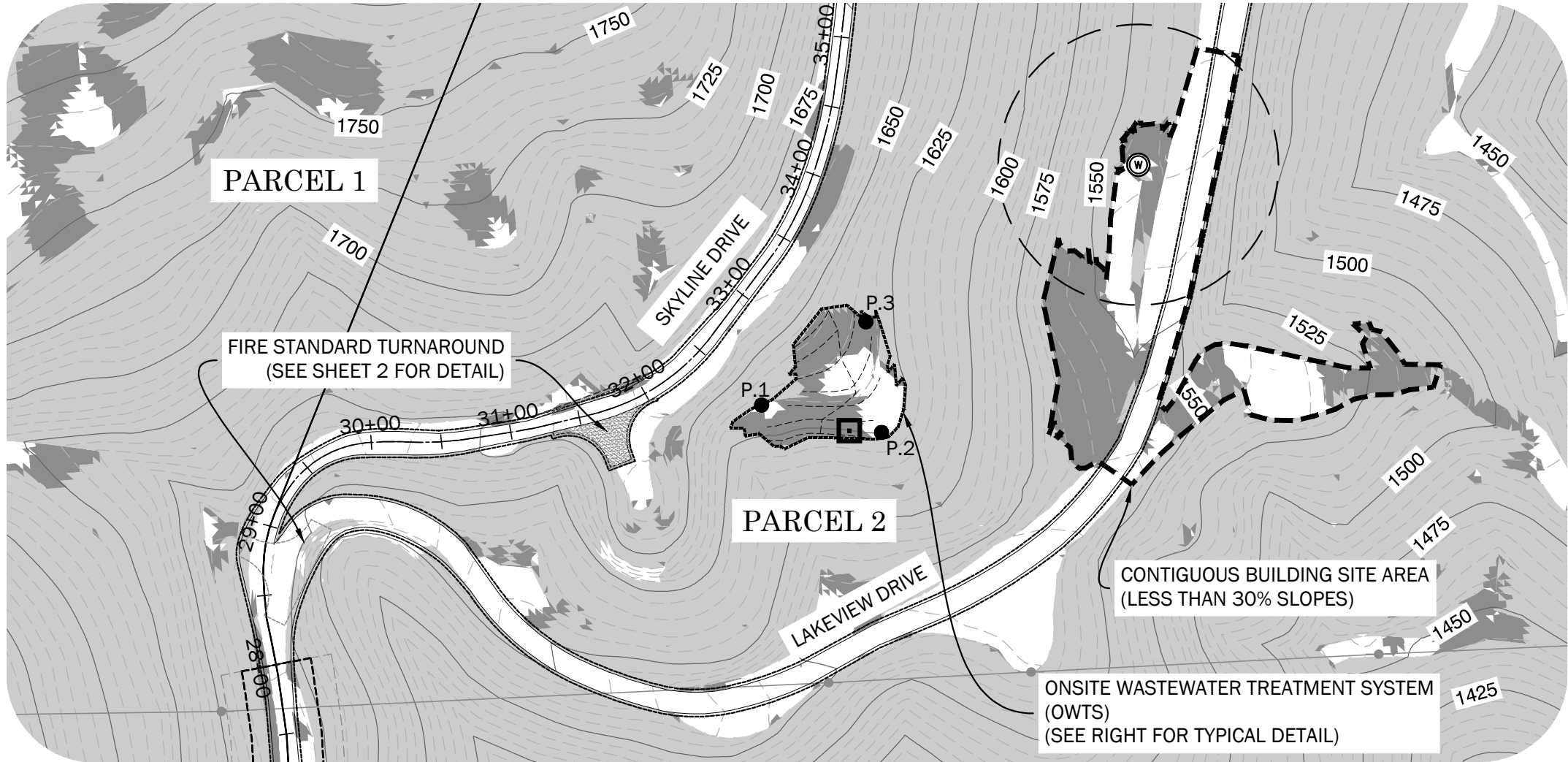
CRITICAL ROAD CROSS SECTIONS

NOTE: (FS) - FINISHED SURFACE

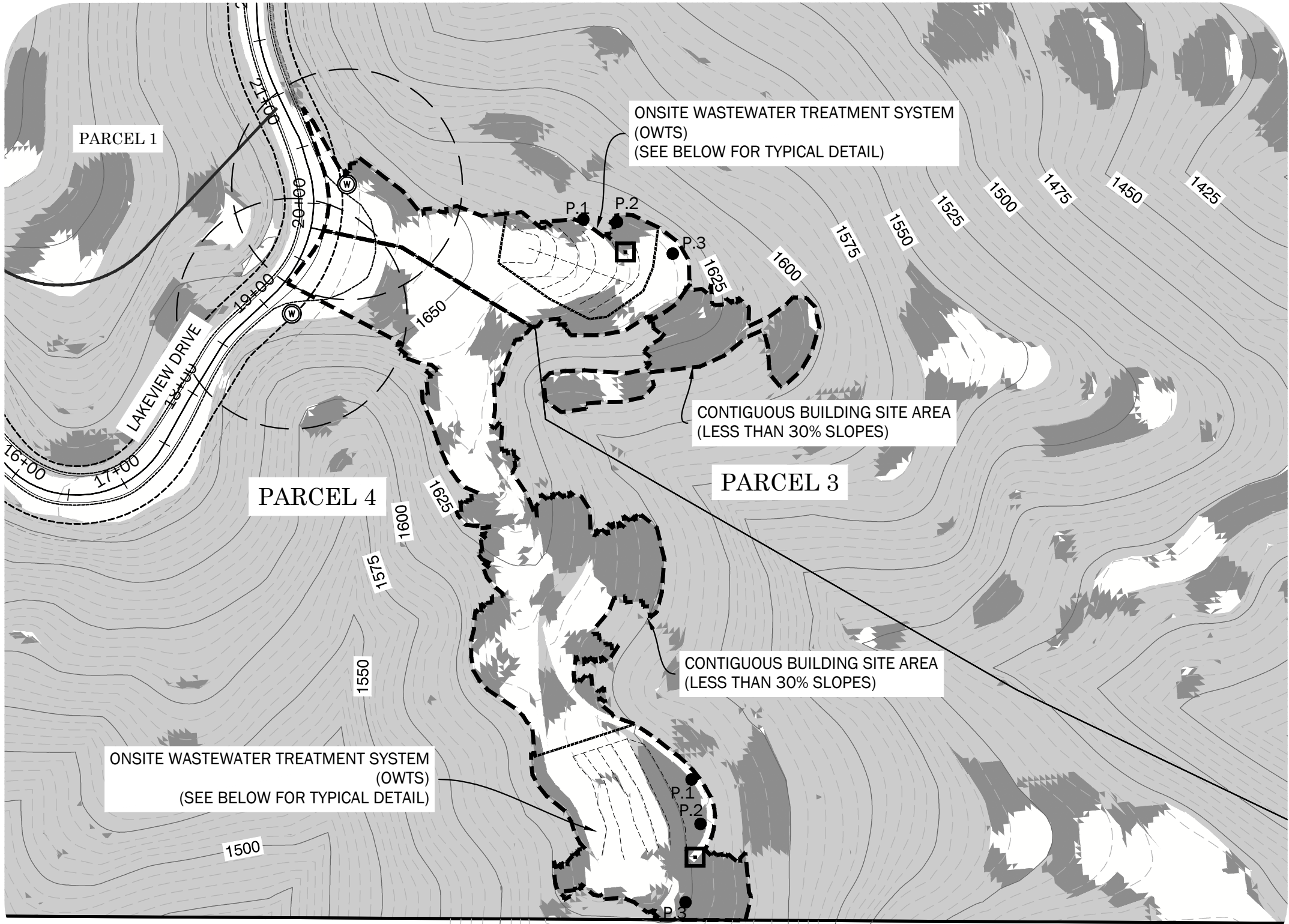




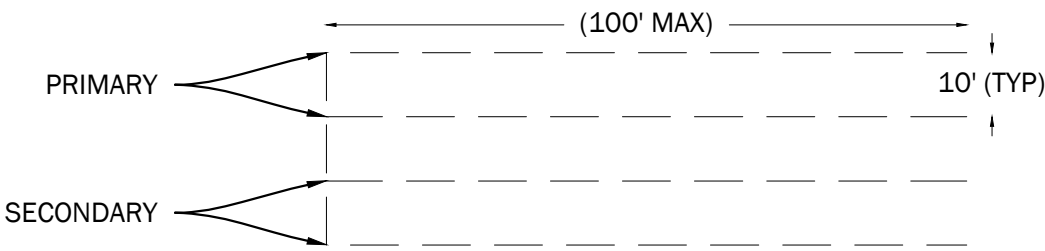
BUILDABLE AREA: PARCEL 1
SCALE: 1" = 100'; CONTOUR: 5' & 25'



BUILDABLE AREA: PARCEL 2
SCALE: 1" = 100'; CONTOUR: 5' & 25'



BUILDABLE AREA: PARCEL 3 & 4
SCALE: 1" = 100'; CONTOUR: 5' & 25'



DETAIL: TYPICAL O.W.T.S.
SCALE: 1" = 30'

LEGEND

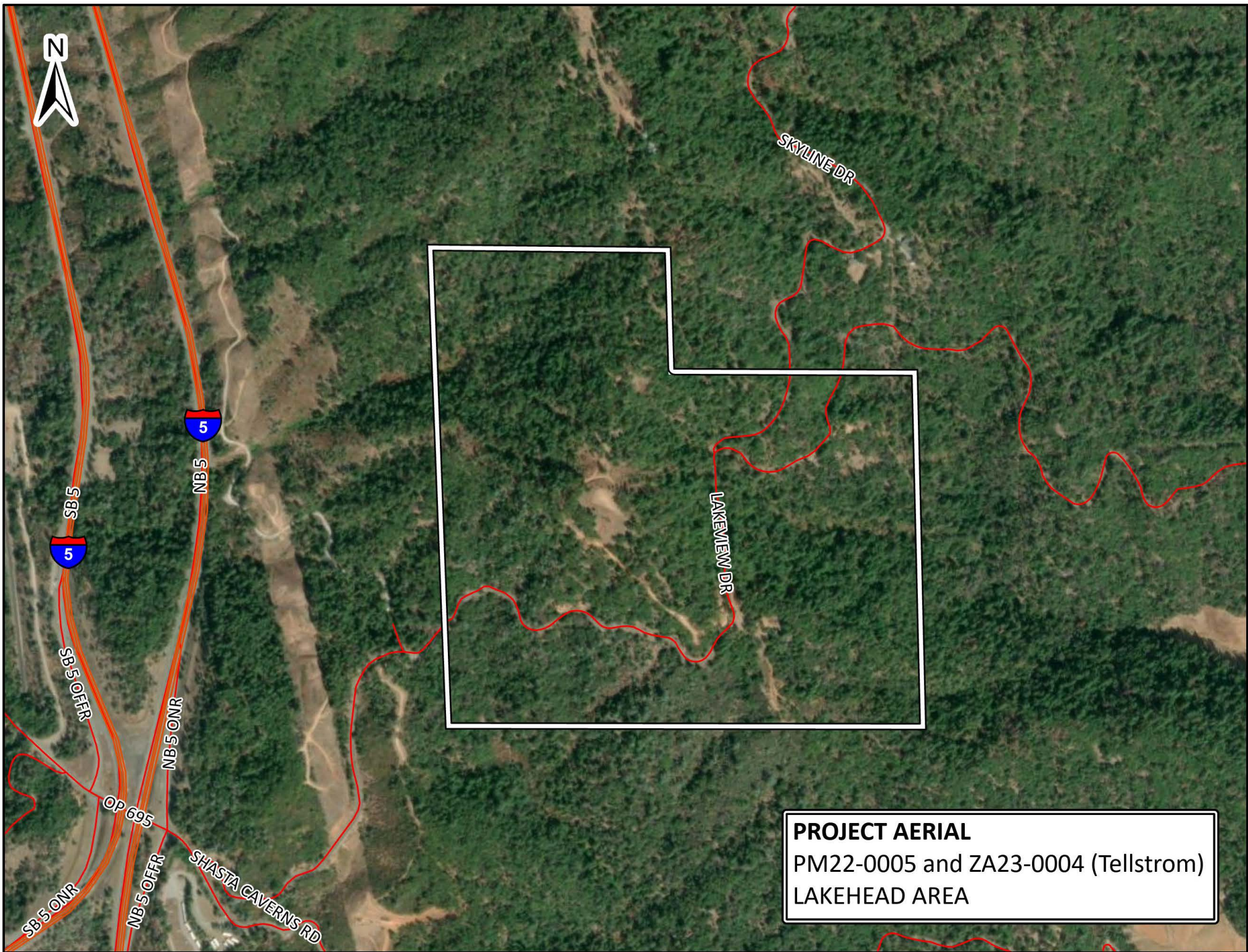
- PROPERTY BOUNDARY
- ADJACENT PARCEL
- CENTERLINE EX. ROAD
- BUILDING SITE (SLOPES LESS THAN 30%)
- PROPOSED LEECHFIELD (W/ PERC. TEST HOLES)
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- PERCOLATION TEST LOCATION
- TEST PIT LOCATION
- 12KV POWER LINE (PG&E)



TENTATIVE PARCEL MAP 22-0005

BEING A PORTION OF THE SW 1/4 OF THE WEST 1/2 OF SECTION 10, T. 34N., R. 4W., M.D.M., UNINCORPORATED TERRITORY OF SHASTA COUNTY, CALIFORNIA

FOR
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PROJECT AERIAL
PM22-0005 and ZA23-0004 (Tellstrom)
LAKEHEAD AREA

