

# AGENDA REGULAR MEETING OF THE OAKLEY PLANNING COMMISSION

Tuesday, May 6, 2025 6:30 PM

Oakley City Council Chambers located at 3231 Main Street, Oakley, California 94561. Unless stated otherwise on the agenda, every item on the agenda is exempt from CEQA Guidelines Sections 15060(c), 15061(b)(3), 15273, 15378, 15301, 15323 and/or Public Resources Code Section 21065.

**MISSION STATEMENT:** The City of Oakley will create a resilient future that fosters and attracts a vibrant and evolving community that welcomes and values all people.

**VISION STATEMENT:** The City of Oakley celebrates our unique Delta lifestyle and small-town feel where we Live in a safe, dynamic community, **Work** together to build the future, and **Play** in our own backyard.

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A complete packet of information containing staff reports and exhibits related to each item is available for public review prior to an Oakley Planning Commission meeting at Oakley City Hall, 3231 Main Street, Oakley, CA 94561. Any writings or documents provided to a majority of the Oakley Planning Commission regarding any item on this agenda will be made available for public inspection, during regular business hours, in the Main Lobby of Oakley City Hall.

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Please keep cell phones/electronic devices turned off during the meeting. Please be advised that Oakley Planning Commission meetings are video recorded and attendees may appear on video.

Members of the public may address the Oakley Planning Commission on items of interest that

are within the City's jurisdiction. Public comment on items not listed on the agenda will be heard under the Public Comments section of the agenda. In compliance with State law, the Oakley Planning Commission may not take action on an item that is not specifically listed on the agenda. If you would like to speak on any agenda item, please fill out a public speaker card available in the lobby and submit it to the City Clerk prior to the agenda item being called. The Oakley Planning Commission Chair will call you by name to the podium to hear your comments and you have up to 3 minutes to speak.

#### 1. OPENING MATTERS

- 1.1 Call to Order and Roll Call of the Oakley Planning Commission
- 1.2 Pledge of Allegiance to the Flag.

#### 2. PUBLIC COMMENTS

At this time, the public is permitted to address the Planning Commission on non-agendized items.

#### 3. CONSENT CALENDAR

Consent Calendar items are typically non-controversial in nature and are considered for approval by the Planning Commission with one single action. Members of the audience, Staff or the Planning Commission who would like an item removed from the Consent Calendar for purposes of public input may request the Chair remove the item. The public may request to remove an item(s) to provide input by completing a public speaker card and submitting it to the City Clerk prior to the item(s) being called by the Chair.

3.1 Approve Minutes from the Regular Planning Commission Meeting held April 1, 2025 (Kim Snodgrass, City Clerk)

Minutes

#### 4. PUBLIC HEARINGS

4.1 Adoption of a Resolution Recommending the City Council Adopt the City of Oakley Climate Action Plan 2025 (Jose Cortez, Senior Planner)

Staff Recommendation: 1) Receive the Staff Report, 2) Receive Questions from the Planning Commission, 3) Open the Public Hearing, 4) Receive Public Testimony, 6) Close the Public Hearing, 7) Deliberate, 8) Summarize the Deliberation 9) Adopt the Resolution

## Staff Report

- 1. Notice of Public Hearing
- 2. City of Oakley Climate Action Plan 2025
- 3. Public Comment Register
- 4. Summary of Feedback Addressed
- 5. Proposed Resolution
- 4.2 Cypress Ranch (Formerly Burroughs) Subdivision 9557 Design Review and Final Development Plan (DR 25-01, FDP 25-01) (Evan Gorman, Associate Planner)

Staff Recommendation: 1) Receive the Staff Report. 2) Receive Ouestions from

the Planning Commission, 3) Open the Public Hearing, 4) Receive Comments from the Applicant, 5) Receive Public Testimony, 6) Close the Public Hearing, 7) Deliberate, 8) Summarize the Deliberation 9) Adopt the Resolution

## Staff Report

- 1. Vicinity Map
- 2. Public Hearing Notice
- 3. Originally Approved Plans
- 4. Applicants Plans
- 5. Proposed Resolution

## 5. REGULAR CALENDAR

5.1 Adopt a Resolution Appointing a Planning Commissioner Representative and Alternate to the TRANSPLAN Committee for a Two-Year Term (Ken Strelo, Community Development Director)

Staff Report

1. Proposed Resolution

- 6. REPORTS
  - 6.1 Reports from Staff Members
  - 6.2 OAKLEY PLANNING COMMISSION
    - (a) Reports from Commission Members
    - (b) Requests for Future Agendas
- 7. ADJOURN



# Minutes of the Regular Meeting of the Oakley Planning Commission held April 1, 2025

#### 1. OPENING MATTERS

1.1 Call to Order and Roll Call of the Oakley Planning Commission

Chair Diego Verduzco called the meeting to order at 6:30 p.m. in the Oakley City Council Chambers located at 3231 Main Street, Oakley, California. Vice Chair, Leonard Price and Commissioners Oleksii Chuiko, Kerry Harvey and Yared Oliveros were also present.

1.2 Pledge of Allegiance to the Flag.

Chair Verduzco led the Pledge of Allegiance to the Flag.

- 2. PUBLIC COMMENTS-None
- 3. CONSENT CALENDAR
  - 3.1 Approve Minutes from the Regular Planning Commission Meeting held March 18, 2025 (Kim Snodgrass, City Clerk

It was moved by Commissioner Chuiko and seconded by Commissioner Harvey to approve the Consent Calendar. Motion was unanimous and so ordered. (5-0)

## 4. PUBLIC HEARINGS

4.1 Town Place Suites Extension (EXT 2025-01) - Request to review an Extension for the previously approved Variance (VA 03-22) and Design Review (DR 10-22) for a 117-room, four story hotel, located at 5542 Bridgehead Road, northeast of the intersection of Main Street and Bridgehead Road. APN: 037-440-026-9 and 037-040-027-7 (Jose Cortez, Senior Planner)

Senior Planner Jose Cortez presented the report.

There were no questions from Commissioners, so Chair Verduzco opened the Public Hearing.

There were no public comments, so he closed the Public Hearing.

It was moved by Commissioner Harvey and seconded by Commissioner Chuiko to approve item 4.1. Motion was unanimous and so ordered. (5-0)

## 5. REGULAR CALENDAR

None

## 6. REPORTS

## 6.1 Reports from Staff Members

Community Development Director Ken Strelo reported the Second Climate Action Plan Workshop was held on March 20th and the next Planning Commission meeting will be on May 6<sup>th</sup> at 6:30.

#### 6.2 OAKLEY PLANNING COMMISSION

## (a) Reports from Commission Members

Commissioner Harvey reported she attended the Second Climate Action Plan Workshop.

## (b) Requests for Future Agendas

None

## 7. ADJOURN

There being no further business, the meeting was adjourned at 6:38 p.m.

Respectfully Submitted,

Kim Snodgrass City Clerk



Approved and Forwarded to the

Planning Commission

**DATE:** May 6, 2025

TO: Joshua McMurray, City Manager

FROM: Jose Cortez, Senior Planner

**SUBJECT:** City of Oakley Climate Action Plan 2025 – Adoption of a Resolution

Recommending the City Council Adopt the City of Oakley Climate Action

Plan 2025

## Summary

A Climate Action Plan (CAP) is a document that lays out a plan for how an agency will aim to reduce greenhouse gas (GHG) emissions, usually through decarbonization and greening efforts, and bolster infrastructural and community-wide resilience to the impacts of climate change. The City's project leads and its consultant partner, Cumming Group, have prepared the Climate Action Plan for adoption after a 14-month process that involved public workshops, a joint work session, and a public comment period on the draft CAP. The final document provides a roadmap to achieve the City's climate goals and to eliminate emissions from City operations by 2040 and to neutralize community-wide emissions by 2045.

## **Background and Analysis**

The City of Oakley ("City") initiated the preparation of its Climate Action Plan on November 14, 2023, through City Council approval of the Request for Proposals and Qualifications ("RFP") for the purposes of securing planning consulting services to support the City in completing a Climate Action Plan (City Council Resolution 111-23). On March 26, 2024, the City of Oakley adopted Resolution 42-24 to formally develop a Climate Action Plan and engaged consultant Cumming Group to manage and execute this process.

The City of Oakley has engaged in a variety of past planning efforts to mitigate climate change impacts, including conducting prior greenhouse gas (GHG) inventories, addressing climate mitigation and adaptation topics in planning documents, and maintaining a variety of active climate mitigation and energy efficiency initiatives Citywide. The CAP will build upon the successes of prior efforts by establishing achievable goals for municipal and community-wide GHG reductions and climate adaptation in the City of Oakley. The CAP will align with the State of California's GHG emissions reduction targets to achieve carbon neutrality by 2045, which includes a 48% reduction in GHG emissions from 1990 levels by 2030. The CAP will further establish plans for community-wide climate and social resilience in the face of climate change, aligned with state-wide best practices and recommendations. In alignment with federal and state





guidelines, as well as various City plans, the CAP best positions the City to access funding for future activity implementation outlined in the document.

The CAP aims to achieve carbon neutrality by outlining 14 overarching goals supported by 39 quantitative or time-bound targets and accompanying specific actions across four sustainability categories: Governance and Leadership, Buildings and Energy, Transportation and Land Use, and Adaptation and Resilience. This roadmap is intended to guide the CAP's implementation, identifying 113 specific actions that the City can take towards the CAP goals and targets with information about estimated cost and emissions impacts. The 113 actions provide the City with a menu of actions and flexibility in the implementation of the number of actions used.

## **Planning Process**

#### **PUBLIC ENGAGEMENT**

As part of the development of the CAP, City Staff and Cumming Group held 2 public workshops, a joint work session between the City Council and Planning Commission, and provided a public comment period on the draft document. The two public workshops provided different approaches for the public's engagement. The first workshop held on November 18, 2024, focused on introducing the public to the concept of the CAP, the goals of the document, and receiving input on what the public wants to see as part of the document's adoption and implementation. The second workshop held on March 20, 2025, provided the public with a more focused approach where Cumming Group presented the CAP Goals and Targets and asked the public to participate in a Stoplight Poll. The poll allowed the public to provide feedback on the goals and targets that would be outlined in the CAP. The Cumming Group and Staff compiled the feedback from both workshops and implemented feedback throughout the document.

On January 28, 2025, the City of Oakley held a public Joint Work Session between the City Council and the Planning Commission with the goal of reporting out on the progress on the City of Oakley's CAP and review of the initial menu of goals, targets, and actions for the plan. The City Council and Planning Commission provided feedback on the four sustainability categories (Governance and Leadership, Buildings and Energy, Transportation and Land Use, and Adaptation and Resilience) presented by the Cumming Group and Staff.

#### PUBLIC COMMENT RECEIVED

The Public Draft Climate Action Plan was released for public comment on March 13, 2025, and closed on April 9, 2025. During the comment period, staff received approximately 85 different comments from participants of the second public workshop and comment letters via email. A Public Comment Register and a Summary of Feedback Addressed are included as attachments to this Staff Report.





#### IMPLEMENTATION, MONITORING, AND REPORTING

Implementation of the CAP includes a multifaceted approach. Once adopted, the CAP outlines a series of steps to guide the implementation process. The CAP suggests that the City will first convene decision-makers after adoption to review all actions within the CAP and prioritize based on select criteria to determine which items can be implemented in the short term (i.e., 0-2 years), medium term (i.e., 3-5 years), and long term (more than five years).

As items are prioritized, actions will be folded into budgetary and project planning, at which point the City will evaluate its capacity and determine where it can use existing resources to implement, as well as where it may need to secure external funding. The CAP further outlines the process for monitoring and reporting on its progress, inclusive of assigning responsibility to appropriate departments; establishing a Steering Committee to integrate CAP implementation into existing workflows; and routinely updating inventories, reporting progress on the CAP; and updating the CAP every five years.

## California Environmental Quality Act ("CEQA")

Pursuant to the California Environmental Quality Act ("CEQA") Guidelines Section 15060(c), the Climate Action Plan is potentially considered a project under CEQA. Pursuant to CEQA Guidelines Section 15061(b)(3) the activity is covered by the "Common Sense" Exemption that excludes projects where "The activity is covered by the general rule that CEQA applies only to projects, which have the potential for causing a significant effect on the environment. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA."

The Climate Action Plan does not propose any specific development projects, rather it establishes goals, quantitative or time-bound targets and accompanying specific actions across four sustainability categories.

## Consistency with the Oakley Strategic Plan 27+

Work on the Climate Action Plan is consistent with the Strategic and Thoughtful Growth Objectives within Oakley's Strategic Plan 27+, as it furthers the City's efforts to encourage objective decision-making versus subjective decision-making for application approvals to meet Oakley's vision and economic goals. This is done by focusing on formal plans and study outcomes.

The Climate Action Plan aligns with the City of Oakley's Strategic Plan 27+ objectives, specifically the Strategic and Thoughtful Growth objective, by promoting environmental stewardship through goals related to energy efficiency, air quality, and greenhouse gas





emissions. The Strategic Plan further recommends adoption and implementation of a Climate Action Plan by 2025 that meets the State's greenhouse gas reduction targets and supports the broader goals of the Oakley General Plan. The Climate Action supports the objectives and goals outlined in the Strategic Plan.

## Fiscal Impact

The City had budgeted \$100,000 for adoption of the CAP. The contract with Cumming Group was approved by the City Council on March 26, 2024, for an amount not to exceed \$99,947.81. The contract amount is covered by appropriate funds under Consulting administered by the Planning Division in the General Fund. City Staff time and materials are covered as part of regular salaries under the General Fund.

There are no immediate financial obligations with the adoption of the CAP. However, additional funding would be required to be allocated and found for implementation of various action items within the CAP. When funding is necessary for implementation of an action, Staff will present financial considerations to the City Council at that time. It should be noted that Staff will also seek state and federal funding through grants and payment programs to aide in CAP activity implementation.

## Staff Recommendation

Staff recommends the Planning Commission adopt a resolution recommending the City Council adopt the City of Oakley Climate Action Plan 2025.

## **Attachments**

- 1. Notice of Public Hearing
- 2. City of Oakley Climate Action Plan 2025
- 3. Public Comment Register
- 4. Summary of Feedback Addressed
- 5. Proposed Resolution





## NOTICE OF PUBLIC HEARING

Notice is hereby given that on **May 6, 2025 at 6:30 p.m.**, or as soon thereafter as the matter may be heard, the Planning Commission of the City of Oakley will hold a Public Hearing at the Council Chambers located at 3231 Main Street, Oakley, CA 94561 for the purposes of considering application as described below:

Project Name: City of Oakley Climate Action Plan (CAP) 2025

Project Location: Citywide

Applicant: City of Oakley, 3231 Main Street, Oakley, CA 94561

**Request:** Planning Commission receive a presentation on the City of Oakley Climate Action Plan (CAP) 2025 for the purposes of receiving public comments and making recommendations to the City Council on adoption of the Climate Action Plan. More information on the City of Oakley Climate Action Plan can be found at: <a href="https://www.oakleyca.gov/232/Environmental-Programs">https://www.oakleyca.gov/232/Environmental-Programs</a>

How to Review: The Staff Report and its attachments will be available for public review, on or before April 29, 2025 at City Hall, 3231 Main Street, Oakley, CA 94561 or online at <a href="https://www.oakleyca.gov/129/Agendas-Minutes">https://www.oakleyca.gov/129/Agendas-Minutes</a> by navigating to the May 6, 2025 Planning Commission agenda and clicking the project title link. (Note: City Hall is closed on the 1st and 3rd Fridays of each month). Interested persons are invited to submit written comments prior to and may testify at the public hearing. Written comments may be submitted to Jose Cortez, Senior Planner at the City of Oakley, 3231 Main Street, Oakley, CA 94561 or by email to JCortez@ci.Oakley.ca.us.

**NOTICE IS ALSO GIVEN** pursuant to Government Code Section 65009(b) that, if this matter is subsequently challenged in Court by you or others, you may be limited to raising only those issues you or someone else has raised at a Public Hearing described in this notice or in written correspondence delivered to the City of Oakley City Clerk at, or prior to, the Public Hearing.



# Climate Action Plan 2025



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## **FOREWORD**

To the residents of Oakley,

Climate change poses challenges to our city. As greenhouse gases and air pollutants are released, they contribute to changing environmental conditions that may impact our community. Since its incorporation in 1999, Oakley has grown into a strong and thriving city—one with great potential and much to preserve for future generations.

In our 5-Year Strategic Plan 2027+ (SP27+), we established a clear vision for Oakley's future, including responsible environmental management. As part of this effort, we present this Climate Action Plan, which outlines strategies to improve the sustainability of City operations by 2040, reduce community-wide emissions by 2045, and strengthen our ability to address environmental challenges. SP27+ identified key goals to support community and economic development, including the adoption of a climate action plan. Thanks to your input, we have taken this first step.





We appreciate the contributions of City staff, consultants, and—most importantly—the Oakley residents who helped shape this plan. This plan reflects the community's priorities and commitment to long-term sustainability. The work ahead will require careful planning and collaboration to implement the outlined strategies in a way that supports broader community initiatives and priorities.

Moving forward, we invite you to be part of this effort. Together, we can continue to foster a strong and resilient Oakley. We look forward to working alongside you to help ensure a stable and prosperous future for our city.

**Shannon Shaw** 

Joshua McMurray

Mayor

City Manager

## **ACKNOWLEDGMENTS**

## **Community Acknowledgments**

First, we give our thanks to the Oakley residents who actively participated in the development of this *Climate Action Plan* and provide invaluable feedback throughout the process. We appreciated your participation in our public workshops and public comment period, and we look forward to a continued partnership as we implement this CAP.

## **City Acknowledgments**

We give thanks to Oakley's elected officials and their offices who provided invaluable feedback throughout the development of this CAP.

## City Council and City Manager

- Shannon Shaw
   Mayor (District 4)
- Hugh Henderson
   Vice Mayor (District 2)
- Aaron Meadows
   Councilmember (District 1)

- George Fuller
   Councilmember (District 5)
- Anissa Williams

  Councilmember (District 3)
- Joshua McMurray
   City Manager

## **Planning Commission**

- Diego Verduzco Chair
- Leonard Price Vice Chair
- Oleksii Chuiko
   Commissioner
- Kerry Ann Harvey
   Commissioner

- Yared OliverosCommissioner
- Jeanne Krieg
   Commissioner (through 2/28/2025)
- Jimmy Ramirez
   Commissioner (through 2/28/2025)

## **Project Team Acknowledgements**

Finally, we thank our City staff and the consulting team who spearheaded the development of this CAP.

## City Project Team

- Kenneth Strelo

  Community Development Director
- Jose Cortez
   Senior Planner
- Evan Gorman
   Associate Planner

## **Consultant Team**

- Cumming Group
- Kimley-Horn



## **EXECUTIVE SUMMARY**

## **About Oakley's Climate Action Plan**

This Climate Action Plan (CAP) establishes progressive, achievable goals for municipal and community-wide greenhouse gas (GHG) reductions and climate adaptation in the City of Oakley. In particular, it establishes official goals for the City of Oakley to eliminate emissions from City operations by 2040 and to neutralize community-wide emissions by 2045, aligning

## **CLIMATE ACTION PLAN GOALS:**

- 1. Achieve carbon neutrality for City operations by 2040
- 2. Achieve community-wide carbon neutrality by 2045

with the State of California's GHG emissions reduction target to achieve carbon neutrality by 2045. The CAP further establishes plans for community-wide climate and social resilience in the face of climate change, aligned with best practices laid out by California's *Climate Adaptation and Planning Guide* and *Climate Adaptation Strategy*. Critical to the success and impact of these efforts is Oakley's emphasis on engaging community members in climate planning. The City is dedicated to ensuring that the CAP resonates with Oakley residents, reflects the City's vision for the future, and fosters a shared sense of responsibility around climate action.

This plan is the City of Oakley's roadmap to eliminate municipal and community-wide emissions, as well as to bolster infrastructural and community-wide resilience to the impacts of climate change. Consequently, the CAP has committed to 14 goals across four different categories of action: **Governance and Leadership**, **Buildings and Energy**, **Transportation and Land Use**, and **Adaptation and Resilience**. These are accompanied by quantitative or time-bound targets to help measure progress towards those goals.

## Planning Process and Timeline

The City of Oakley developed the CAP over the course of approximately one year between spring 2024 and spring 2025, and included the following structural components:



- An existing conditions assessment, including an evaluation of Oakley's preexisting climate policies
  and initiatives, baseline greenhouse gas emissions inventories (municipal and community-wide), and
  a climate vulnerability and risk assessment;
- Community engagement, inclusive of two public workshops;
- A joint work session with the Oakley City Council and Planning Commission; and
- A public comment period on the draft CAP.

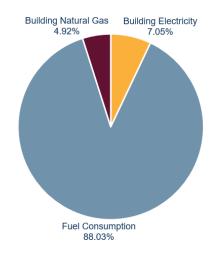
#### **Greenhouse Gas Emissions**

The City of Oakley prepared baseline inventories of municipal greenhouse gas (GHG) emissions and community-wide GHG emissions, using the baseline year of calendar year (CY) 2023 (see: "Chapter 2: Greenhouse Gas Emissions). The municipal inventory comprises emissions generated from municipal assets, operations, and activities, whereas the community-wide inventory comprises emissions from residential and commercial buildings and activities. Drawing on the baseline inventories, the City produced emissions forecasts for both municipal and community-wide emissions through 2050.

## Municipal Greenhouse Gas Emissions

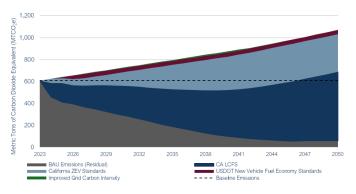
In 2023, the City of Oakley emitted 610 MTCO2e (metric tons of carbon dioxide equivalent), 92.9% of which can be attributed to Scope 1 (direct emissions from Oakley assets). Emissions from stationary combustion (i.e., natural gas use in buildings) accounted for nearly 5% of all emissions, whereas mobile combustion (i.e., City vehicles) accounted for just over 88%. Scope 2 emissions (indirect emissions from purchased electricity), all of which are attributed to procured electricity from Pacific Gas & Electric and MCE Clean Energy, totaled 43 MTCO2e and made up just over 7% of municipal emissions.

Figure E-1. Municipal Greenhouse Gas Emissions (2023)



To better understand the City's key pathways to reduce emissions over time, projections were prepared to show anticipated GHG emissions through 2050. In a **business-as-usual** (BAU) or 'do-nothing' scenario (i.e., only accounting for external factors not within Oakley's control and excluding regulatory impacts, such as population control), Oakley's municipal emissions would increase by 75.6% by 2050 (from 2023

**Figure E-2.** Municipal Greenhouse Gas Emissions Projections through 2050



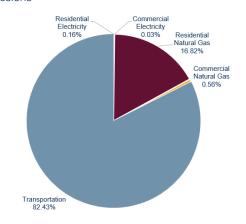
levels). In a **business-as-planned** (BAP) scenario (i.e., accounting for existing actions and the impacts of state and federal regulations), municipal emissions would decline by 89.9% by 2050.

## Community-wide Greenhouse Gas Emissions

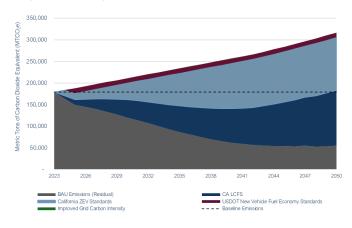
Community-wide emissions totaled 179,248 MTCO<sub>2</sub>e in 2023, nearly all of which fall under Scope 1 (>99%). Over 17% of emissions could be attributed to natural gas use in buildings across the residential and commercial sectors, whereas over 82% can be attributed to fuel combustion from vehicles moving within and across Oakley. Scope 2 emissions made up a non-significant share of emissions, totaling 0.19% of all community-wide emissions.

Without any action by the City or impact from regulations, community-wide emissions will increase by 76.7% by 2050 (from 2023 levels). However, accounting for the impact of the aforementioned regulations, we expect Oakley's emissions in a business-as-planned scenario to decline by 69.2% from the 2023 baseline by 2050.

**Figure E-3.** 2023 Community-wide Greenhouse Gas Emissions



**Figure E-3.** 2023 Community-wide Greenhouse Gas Projections through 2050



## **Climate Vulnerability and Risk Assessment**

The City conducted a community-wide climate vulnerability and risk assessment (CVRA), the approach for which can be summarized by the following steps:

- 1. Identify and organize City assets under specific sectors.
- 2. Identify potential climate hazards per sector;
- 3. Pairing assets and hazards
- 4. Describe potential climate impacts, asset exposure, non-climate stressors, and climate impact consequences of each asset-hazard pair;
- 5. Identify priority climate hazards affecting the City; and
- 6. Review existing plans for preliminary adaptation strategies.

As part of the CVRA, the City's key assets were reviewed and identified to be either owned and operated by the City, quasi-public agencies, or private entities. Consequently, Oakley identified the following climate-related effects and hazards as applicable to Oakley:

- 1. changes in precipitation patterns and amounts;
- 2. increased risk of flooding;
- 3. higher temperatures;
- 4. sea level rise; and
- 5. increased risk of wildfires.

Per state guidance, a high emissions scenario was used to analyze potential climate hazards to the City. Each identified asset was then evaluated for its exposure or **sensitivity** to a given climate hazard, the **probability** of each hazard's occurrence, the asset's **adaptive capacity** (i.e., how adaptive the asset is to disturbances), and the **magnitude** of impact of a given hazard for that asset (e.g., significant functional and physical costs). The City also evaluated social vulnerability, accounting for demographic and socioeconomic characteristics across Oakley that may be disproportionately impacted by climate risks.

From the intermediary steps listed above, fifteen broad asset categories were identified and paired with priority hazards to determine probability, magnitude, and climate risk. These "asset-hazard pairs" were assessed and given a composite risk rating: "Take Action" or "Accept Risk." It is important to note that the outcome of "Take Action" or "Accept Risk" for the composite risk rating should not be understood as a "final" decision by the City, but rather a recommended next step for the City as it evaluates further action. These findings are shown in Chapter 4 and elaborated upon in the Appendix C and Appendix D.

## **Climate Action Roadmap**

To reduce GHG emissions and enhance climate resilience in the City of Oakley, this plan identifies 14 overarching **goals** supported by 39 quantitative or time-bound **targets** and accompanying specific **actions** across four sustainability categories: Governance and Leadership, Buildings and Energy, Transportation and Land Use, and Adaptation and Resilience. This roadmap is intended to guide the CAP's implementation, identifying 113 specific actions that the City can take towards the CAP goals and targets with information about estimated cost and emissions impacts. The goals are summarized in the diagram below.

Governance a	and Leadership
G-1	Implement carbon reduction and climate resilience practices across City operations and facilities
G-2	Bolster regional partnerships to identify and achieve shared climate goals
G-3	Develop outreach and communications strategies for climate action and adaptation efforts
G-4	Identify and secure funding for municipal climate efforts
Buildings and	Energy
B-1	Reduce overall energy demand through building electrification and other energy efficiency measures
B-2	Install and promote distributed energy resources (DERs) to provide local renewable energy and promote grid resilience
Transportatio	n and Land Use
T-1	Promote active and public mobility options across Oakley
T-2	Encourage the transition to electric vehicles (EVs) for vehicle trips that are unavoidable
T-3	Implement zoning and land use tools that promote transit-oriented development (TOD) and reduce vehicles miles traveled (VMT)
Adaptation an	nd Resilience
A-1	Improve city infrastructure and open spaces to withstand climate impacts (e.g., extreme heat, fires, floods)
A-2	Bolster community-wide emergency response networks and resource-sharing
A-3	Evaluate city infrastructure standards periodically to incorporate strategies for climate impacts (e.g., extreme weather, precipitation, sea level rise, high heat, wildfires)
A-4	Establish land use patterns that increase the resilience of the built environment, ecosystems, and communicates to climate impacts
A-5	Ensure agriculture adaptation resources are coordinated, funded and staffed to support farmers in making informed business decisions in a changing climate

## Implementing this Climate Action Plan

To implement this Climate Action Plan, the City will first convene decision-makers after adoption to review all actions within the CAP and prioritize based on select criteria to determine which items can be implemented in the short term (i.e., 0-2 years), medium term (i.e., 3-5 years), and long term (more than five years). As items are prioritized, actions will be folded into budgetary and project planning, at which point the City will evaluate its capacity and determine where it can use existing resources to implement, as well as where it may need to secure external funding. The City also commits to monitoring and reporting on its progress, inclusive of assigning responsibility to appropriate departments; establishing a Steering Committee to integrate CAP implementation into existing workflows; and routinely updating inventories, reporting progress on the CAP; and updating the CAP every five years.



## 1 INTRODUCTION

## 1.1 About the City of Oakley

Situated along the Sacramento–San Joaquin River Delta (or "California Delta") in east Contra Costa County, just an hour outside of San Francisco and Sacramento, the City of Oakley is one of California's youngest incorporated cities. The land holds a deep agricultural history: its rolling hills, orchards, and vineyards recall its roots as a quiet farming town. Today, Oakley's verdant landscape is interspersed with residential neighborhoods, schools, landscaped parks, recreational opportunities, and business and commercial developments. Since its formal incorporation in 1999, the City has committed to maintaining its small-town character while simultaneously building a prosperous future for future generations. Critically, this includes planning for future climate change impacts.

The United Nations' International Panel on Climate Change (IPCC) has confirmed that human-caused climate change is affecting weather and climate extremes in every region across the globe. 

This includes Contra Costa County, which will likely experience higher levels of extreme heat, poor air quality, sea level rise, drought, storm severity, and flood events due to climate change. 

In order to effectively plan for the future, Oakley must plan for climate change impacts. In doing so, Oakley can not only reduce its emissions and enhance climate resilience but foster increased economic opportunity and improved public health outcomes for generations to come.

According to the
International Panel on
Climate Change (IPCC),
human-caused climate
change is affecting
weather and climate
extremes in every region
across the globe.

#### 1.2 Past Climate Efforts

The City of Oakley has engaged in a variety of prior planning efforts to account for climate change. The City conducted its first GHG inventories in 2005 and 2010. It addressed climate mitigation and adaptation activities through its 2015 *Strategic Energy Plan* and 2020 *Green Infrastructure Plan*. Oakley adopted an update to the Oakley *General Plan* in 2022, with a strategic focus on environmental justice, mobility, and climate resilience. Its five-year *Strategic Plan 2027+* (*SP27+*), also adopted in 2022, established responsible environmental stewardship and thoughtful economic growth as key priorities for the City's future. Oakley

<sup>&</sup>lt;sup>1</sup> IPCC, 2023: Summary for Policymakers. In: Climate Change 2023: Synthesis Report. Contribution of Working Groups I, II and III to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [Core Writing Team, H. Lee and J. Romero (eds.)]. IPCC, Geneva, Switzerland, pp. 1-34, doi: 10.59327/IPCC/AR6-9789291691647.001

<sup>&</sup>lt;sup>2</sup> Contra Costa County. "Climate Action Plan." December 2025.

maintains a variety of climate mitigation and energy efficiency programs and initiatives, focusing on strategies to reduce waste, implement energy efficient design standards, and expand renewable energy opportunities. In 2024, the City Council adopted a resolution to formally develop a *Climate Action Plan* (CAP). Oakley is committed to integrating and building upon these previous climate initiatives and successes through this Plan.

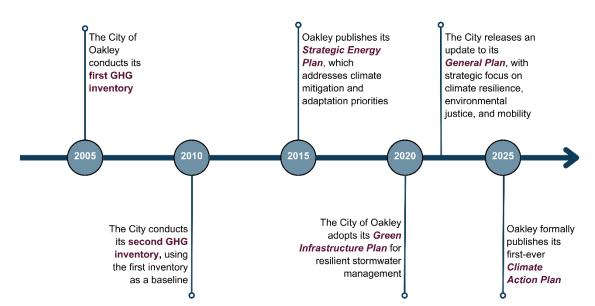


Figure 1. Timeline of Oakley's actions to address climate change

#### 1.3 About this Climate Action Plan

This CAP establishes achievable goals for municipal and community-wide greenhouse gas (GHG) reductions and climate adaptation in the City of Oakley. In particular, it establishes official goals for the City of Oakley to eliminate emissions from City operations by 2040 and to neutralize community-wide emissions by 2045, aligning with the State of California's GHG emissions reduction target to achieve carbon neutrality by 2045. The CAP

#### **CLIMATE ACTION PLAN GOALS:**

- 1. Achieve carbon neutrality for City operations by 2040
- 2. Achieve community-wide carbon neutrality by 2045

further establishes plans for community-wide climate and social resilience in the face of climate change, aligned with best practices laid out by California's Climate Adaptation and Planning Guide and Climate

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<sup>&</sup>lt;sup>3</sup> California Air Resources Board. "2022 Scoping Plan Documents." n.d.

Adaptation Strategy. Critical to the success and impact of these efforts is Oakley's emphasis on engaging community members in climate planning. The City is dedicated to ensuring that the CAP resonates with Oakley residents, reflect the City's vision for the future, and foster a shared sense of responsibility around climate action.

This plan is the City of Oakley's roadmap to eliminate municipal and community-wide emissions, as well as to bolster infrastructural and community-wide resilience to the impacts of climate change. Consequently, the CAP has committed to 14 goals across four different categories of action: **Governance and Leadership**, **Buildings and Energy**, **Transportation and Land Use**, and **Adaptation and Resilience**. These are accompanied by 39 quantitative or time-bound targets to help measure progress towards those goals.

This Plan also provides a roadmap to implementation, identifying 113 specific actions that the City can take towards the CAP goals and targets with information about estimated cost and emissions impacts. This information serves as a guide for Oakley's City Council, Planning Commission, and Staff to prioritize strategies with a mind toward those that create the greatest impact at the lowest cost to the City. This roadmap is accompanied by the City's commitments to monitor, evaluate, and report on its progress. All goals, targets, and actions within this plan have been informed by City decision-makers and staff, and most importantly by community members.

#### 1.3.1 Planning Process and Timeline

The City of Oakley developed the CAP over the course of approximately one year between spring 2024 and spring 2025. The City began by conducting an existing conditions assessment that evaluated Oakley's preexisting climate policies and initiatives in comparison to statewide goals and best practices. This assessment phase included extensive research into Oakley's existing programs, code and ordinances, technical resources, community engagement activities, and other projects that were relevant to the CAP. This phase also included review of relevant planning and guidance documents from Contra Costa County, the Association of Bay Area Governments (ABAG), peer municipality best practices, and relevant policies and programs on local, regional, state, and federal levels.



The City next conducted a GHG emissions inventory in accordance with internationally recognized standards and guidance, in collaboration with relevant City Departments and entities (see "Chapter 2: Greenhouse Gas Emissions"). The City prepared resulting emissions projections through 2050, showing how GHG emissions in Oakley would change if the City did nothing versus if the City acted with reduction measures. The City also developed a climate vulnerability and risk assessment to analyze the risks that Oakley's infrastructure, functions, and population are likely to face as climate impacts become more pronounced in coming years (see "Chapter 3: Climate Risk Reduction"). The City assessed the adaptive capacity of various resources to projected environmental stressors, with particular focus on identifying community members most susceptible to climate impacts, such as children, seniors, low-income residents, and people with disabilities.

In November 2024 and March 2025, the City conducted public workshops to ensure CAP strategies and goals meaningfully reflect community member priorities (see "Section 1.3.2: Community and Stakeholder Engagement"). Based on the results of all prior research efforts and activities, the CAP was formally drafted through a collaborative effort with a diverse cohort of cross-department and community stakeholders. The initial draft was posted for public comment in March 2025. The City integrated feedback from the public into a final plan, which was approved by the Oakley Planning Commission and Oakley City Council in May 2025.

## 1.3.2 Community and Stakeholder Engagement

Community engagement activities play a key role in ensuring community priorities and feedback are meaningfully reflected in the City's climate planning efforts. To this end, Oakley held two in-person workshops to raise awareness about the CAP and integrate community goals. First, the City held a visioning workshop in

Figure 2. Oakley CAP Community Engagement Process

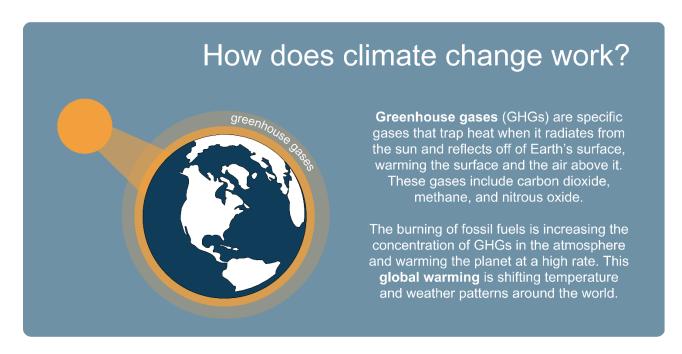
November that focused on brainstorming and outlining community priorities to be integrated into the forthcoming CAP. Second, the City held a strategizing workshop in March that focused on reviewing the draft plan and ensuring that community members have the opportunity to provide comments and feedback on the complete draft. These activities directly shaped the goals, targets, and actions laid out in this CAP.

March 2025 November 2024 Adaptation and Resilience ncy response networks and Visioning Strategizing · Brainstorm community · Review draft goals, priorities targets, and actions in · Discuss high-level Climate Action Plan goals for forthcoming · Provide feedback for Climate Action Plan integration into final draft

## 2 GREENHOUSE GAS EMISSIONS

## 2.1 Background

The City of Oakley prepared baseline inventories of municipal greenhouse gas (GHG) emissions and community-wide GHG emissions, using the baseline year of calendar year (CY) 2023. The municipal inventory comprises emissions generated from municipal assets, operations, and activities, whereas the community-wide inventory comprises emissions from residential and commercial buildings and activities. Drawing on the baseline inventories, the City produced emissions forecasts for both municipal and community-wide emissions through 2050. The findings from the inventories and scenario projections were ultimately used to help develop the goals, targets, and actions in this CAP (see: "Chapter 4: Climate Action Roadmap.")



## 2.2 Municipal Greenhouse Gas Emissions

## 2.2.1 Scope and Boundary

The municipal GHG emissions inventory includes Scope 1 emissions, which include emissions directly produced by Oakley's buildings and vehicles, and Scope 2 emissions, which are indirect emissions from purchased electricity. In the case of City operations, Scope 1 emissions included stationary combustion (i.e., natural gas use in municipal buildings) and mobile combustion (i.e., fuel used by City-owned vehicles). The municipal GHG inventory does not include any Scope 3 emissions, which would include other indirect

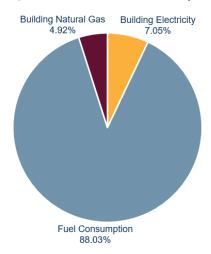
emissions from upstream or downstream activities (e.g., waste, employee commuting, business travel, etc.). The municipal inventory is limited to emissions City-owned assets and activities within CY 2023. Emissions are measured and listed in metric tons of carbon dioxide equivalent (MTCO<sub>2</sub>e).

## 2.2.2 Municipal Emissions Inventory

In 2023, the City of Oakley emitted 610

MTCO<sub>2</sub>e, 92.9% of which can be attributed to Scope 1 (or direct emissions). Emissions from stationary combustion (i.e., natural gas use in buildings) accounted for nearly 5% of all emissions, whereas mobile combustion (i.e., City vehicles) accounted for just over 88%. Scope 2 emissions, all of which are attributed to procured electricity from Pacific Gas & Electric and MCE Clean Energy, totaled 43 MTCO<sub>2</sub>e and made up just over 7% of municipal emissions. The majority

Figure 3. Municipal Greenhouse Gas Emissions by Source (CY 2023)



of the City's electric accounts are enrolled in MCE Clean Energy, which provides electricity at a significantly lower carbon intensity. Emissions are summarized in Table 1 and in Figure 3.

 Table 1. Municipal Greenhouse Gas Emissions (CY 2023)

	Emissions (MTCO <sub>2</sub> e)	Percentage (%)
Emissions Scope/Category	610	100.00%
Scope 1 (Direct Emissions)	567	92.90%
Stationary Combustion (Facilities)	30	4.89%
Mobile Combustion (Fleet)	537	88.01%
Scope 2 (Indirect Emissions)	43	7.10%
Pacific Gas & Electric (PG&E)	1	0.15%
MCE Clean Energy	42	6.95%

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<sup>&</sup>lt;sup>4</sup> The methodology for the development of the municipal emissions inventory is described in detail in Appendix B.

#### 2.2.3 Municipal Emissions Projections

To better understand the City's key pathways to reduce emissions over time, projections were prepared to show anticipated GHG emissions through 2050. As shown in Figure 4, the black dotted line shows baseline emissions (CY 2023). If one were to follow the top of the stacked area chart as a line, that total indicates Oakley's municipal emissions in a **business-as-usual** (BAU) or 'do-nothing' scenario. Specifically, that scenario shows how Oakley's municipal emissions portfolio would change if all that were accounted for were external factors not under Oakley's control and if we ignored the impacts of regulatory action. In this case, the key driver of emissions growth would solely be population growth, <sup>5</sup> and it would lead to an increase in overall municipal emissions by 75.6% by 2050 (from 2023 levels).

Figure 4 also shows a **business-as-planned** (BAP) scenario, indicating the impact of pertinent state and federal regulations as well as any existing City initiatives to reduce its municipal emissions. In particular, it accounts for anticipated emissions reductions from the California Low Carbon Fuel Standard (LCFS), U.S. Department of Transportation (USDOT) New Vehicle Fuel Economy Standards, California Zero Emissions Vehicle (ZEV) Standards, and improvements to grid carbon intensity per the California Renewable Portfolio Standard (i.e., 100% carbon-free electricity by 2045). If one were to follow the top of the dark grey wedge at the bottom of the chart, it shows that the impact of these regulations are actually expected to reduce Oakley's municipal emissions by 89.9% despite anticipated growth.

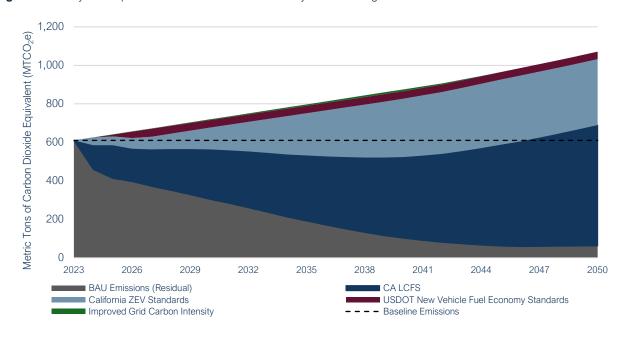


Figure 4. Oakley Municipal Greenhouse Gas Emissions Projections through 2050

<sup>&</sup>lt;sup>5</sup> Population growth, as accounted for in this model, is derived from Oakley's population growth projections as included in our 2022 Focus General Plan Update. Similar levels of growth are assumed to continue from 2043 through 2050.

## 2.3 Community-wide Greenhouse Gas Emissions

## 2.3.1 Scope and Boundary

Oakley's community-wide greenhouse gas emissions inventory accounts for all emissions within the geographic boundary of the City of Oakley, including emissions from the residential, commercial, and transportation sectors. <sup>6</sup> These emissions exclude those attributed to City-owned assets, operations, or activities. As with municipal emissions, these include emissions that would be classified under Scope 1 (direct emissions) and Scope 2 (indirect emissions from purchased electricity), but do not include any emissions that would be classified under Scope 3 (indirect emissions from upstream and downstream activities within the City's value chain).

## 2.3.2 Community-wide Emissions Inventory

Community-wide emissions totaled 179,248 MTCO<sub>2</sub>e in 2023, nearly all of which fall under Scope 1 (>99%). Over 17% of emissions could be attributed to natural gas use in buildings across the residential and commercial sectors, whereas over 82% can be attributed to fuel combustion from vehicles moving within and across Oakley. Scope 2 emissions made up a non-significant share of emissions, totaling 0.19% of all community-wide emissions. This is because the majority of residential and commercial electric accounts within the City are enrolled under an MCE Clean Energy rate option that provides them electricity at a lower carbon intensity. Emissions are summarized in Table 2 and Figure 5.

Table 2. Community-wide Greenhouse Gas Emissions (CY 2023)

	Emissions (MTCO₂e)	Percentage (%)
Emissions Scope/Category	179,248	100.00%
Scope 1 (Direct Emissions)	178,901	99.81%
Residential (Buildings)	30,215	16.86%
Commercial (Buildings)	998	0.56%
Transportation (Vehicles)	147,668	82.39%
Scope 2 (Indirect Emissions)	347	0.19%
Residential	295	0.16%
Commercial	52	0.03%

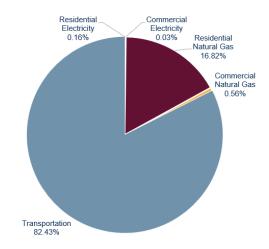
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<sup>&</sup>lt;sup>6</sup> Other sectors were not included either because no such data was available or because no emissions could be attributed to that sector within the City boundary. This also does not include emissions tied to other agencies that service Oakley, such as Diablo Water District or nearby transit agencies.

## 2.3.3 Community-wide Emissions Projections

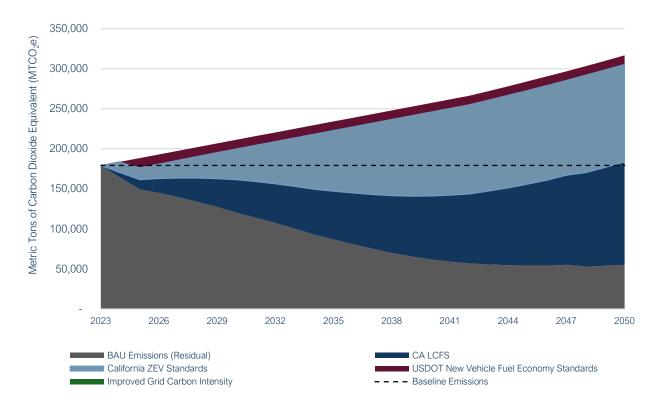
As with municipal emissions, community-wide emissions were projected through 2050. As shown in Figure 6, the dotted line again shows baseline emissions (CY 2023), and the top line of the chart indicated community-wide emissions in a business-asusual scenario. As with municipal emissions, the primary driver of emissions through 2050 is population growth in Oakley, which without any action by the City or impact from regulations would lead to a 76.7% increase in emissions by 2050 (from 2023 levels).

**Figure 5.** Community-wide Greenhouse Gas Emissions by Source (CY 2023)



However, accounting for the impact of the aforementioned regulations, we expect Oakley's emissions in a business-as-planned scenario to decline by 69.2% from the 2023 baseline by 2050.

Figure 6. Oakley Community-wide Greenhouse Gas Emissions Projections through 2050



## 3 CLIMATE VULNERABILITY AND RISK

## 3.1 Background

Climate change is a global issue that impacts communities in various ways. To address a changing climate, many states have enacted legislation targeted at reducing greenhouse gas emissions and focusing on climate resilient infrastructure. Consequently, cities and counties need to create, view, and update CAPs. A CAP should reflect the latest greenhouse gas emissions forecasts and relevant climate adaptation and resilience strategies. In addition, a CAP should include goals, policies, and objectives based on a climate vulnerability and risk assessment (CVRA). As described in detail in the California Air Resources Board *2022 Scoping Plan*, a CVRA serves as a fundamental foundation for a CAP. For Oakley, this analysis provides a basis for the goals, targets, and actions identified in our Climate Action Roadmap (Chapter 4).

## 3.2 Approach

Based on guidance from the California Governor's Office of Emergency Services (Cal OES) California Adaptation Planning Guide<sup>8</sup> and the Southern California Climate Adaptation Planning Guide,<sup>9</sup> the City applied the following five steps as required to assess community-wide vulnerability to the effects of climate change: <sup>10</sup>

- 1. **Exposure** Identify the climate change effects a community will experience.
- 2. **Sensitivity** Identify the key community structures, functions, and populations that are potentially susceptible to each climate change exposure.
- 3. **Potential Impacts** Analyze how climate change exposure will affect the community structures, functions, and populations (impacts). Adjust the impact assessment to account for uncertainty, timing, and adaptive capacity.
- 4. Adaptive Capacity Evaluate the community's current ability to address the projected impacts.
- 5. **Vulnerability Scoring** Determine and rank potential impacts and adaptive capacity.

<sup>&</sup>lt;sup>7</sup> California Air Resources Board (CARB), 2022 Scoping Plan for Achieving Carbon Neutrality. Available at <a href="https://ww2.arb.ca.gov/our-work/programs/ab-32-climate-change-scoping-plan/2022-scoping-plan-documents">https://ww2.arb.ca.gov/our-work/programs/ab-32-climate-change-scoping-plan/2022-scoping-plan-documents</a>.

<sup>&</sup>lt;sup>8</sup> Governor's Office of Emergency Services, California Adaptation Planning Guide, June 2020 Final Draft. Available at <a href="https://www.caloes.ca.gov/wp-content/uploads/Hazard-Mitigation/Documents/CA-Adaptation-Planning-Guide-FINAL-June-2020-Accessible.pdf">https://www.caloes.ca.gov/wp-content/uploads/Hazard-Mitigation/Documents/CA-Adaptation-Planning-Guide-FINAL-June-2020-Accessible.pdf</a>. Accessed July 29, 2024.

<sup>&</sup>lt;sup>9</sup> Association of Bay Area Governments (ABAG), Regional Resilience Toolkit, 2019. Available at https://abag.ca.gov/sites/default/files/regional resilience toolkit 0.pdf. Accessed July 29, 2024.

<sup>&</sup>lt;sup>10</sup> These five steps and data for this CVA are further described in Appendix C: City of Oakley Vulnerability Assessment.

From those steps, the City undertook the following intermediary steps to complete the analysis and formulate the adaptation and resilience strategies included in the CAP:

- 1. Identify and organize City assets under specific sectors;
- 2. Identify potential climate hazards per sector;
- 3. Pairing assets and hazards;
- 4. Describe potential climate impacts, asset exposure, non-climate stressors, and climate impact consequences of each asset-hazard pair;
- 5. Identify priority climate hazards affecting the City; and
- 6. Review existing plans for preliminary adaptation strategies.

#### 3.2.1 Assets and Hazards

As part of the CVRA, the City's key assets were reviewed and identified to be either owned and operated by the City, quasi-public agencies, or private entities. According to the 2023 Department of Energy (DOE) Guidance, assets are defined as community groups, places, natural resources, infrastructure, and service that the community finds valuable and wants to protect against climate-exacerbated hazardous events. Assets include but are not necessarily limited to administrative buildings, historic sites, transportation infrastructure, and facilities that are owned and managed by the City.

Because climate change effects may vary depending on a community's geography, density of urban development, and existing environmental factors, only select primary and secondary hazards were selected as potentially applicable to Oakley (see Table 3). 11



<sup>&</sup>lt;sup>11</sup> Each of these hazards are discussed in detail in Appendix C with the goal of characterizing the community's exposure and projected climate hazards.

Table 3. Climate-Related Effects and Hazards Potentially Applicable to Oakley

Primary Hazard	Secondary Hazard
Air Quality	Public health effects
Changed temperature and/or precipitation patterns	Drought, wildfire
Flooding	Flooding, erosion, mud or landslides; Dam and levee failure
Sea Level Rise	Storm surge, flooding, groundwater intrusion
Severe storms and extreme weather	Intense rainstorms, severe wind, flooding, lighting, hail
Temperature changes – warming	Extreme heat/heat waves
Wildfire	Erosion, landslides

#### 3.2.2 Emissions Scenarios

The likelihood, timing, and severity of primary and secondary hazards impacting the City are projected based on the trajectory of greenhouse gas concentrations in the Earth's atmosphere, known as Representative Concentration Pathways (RCPs). RCPs combine historical data with estimates of GHG concentrations through 2100, based on various human behavior scenarios. These pathways outline different potential climate futures, depending on GHG emission levels in the coming years. In its latest assessment, the Intergovernmental Panel on Climate Change (IPCC) adopted several RCPs and focused on three key pathways representing a range of possible outcomes:

- A low-emissions scenario (RCP-2.6) this represents an aggressive emissions reduction scenario that assumes global greenhouse gas emissions will be significantly curtailed. RCP-2.6 most closely corresponds to the aspirational goals of the United Nations Framework Convention on Climate Change 2015 Paris Agreement.
- 2. **A medium-emissions scenario (RCP-4.5)** this represents a mitigation scenario where global greenhouse gas emissions peak by 2040 and then decrease for the rest of the century.
- 3. A high-emissions scenario (RCP-8.5) this represents a "business-as-usual" scenario where global greenhouse gas emissions continue to rise throughout the 21st century.

Both the RCP-2.6 and RCP-4.5 scenarios depend on substantive changes in the current set of world-wide policies, regulations, and behaviors. Therefore, they are considered unlikely and may not be useful for this climate vulnerability and risk assessment. Per guidance from the California Office of Land Use and Climate

Innovation (formerly known as the Office of Planning and Research), the RCP-8.5 scenario (high emissions) was used to analyze potential climate hazards to the City. 12

Each identified asset was then evaluated for its exposure or **sensitivity** to a given climate hazard, the **probability** of each hazard's occurrence, the asset's **adaptive capacity** (i.e., how adaptive the asset is to disturbances), and the **magnitude** of impact of a given hazard for that asset (e.g., significant functional and physical costs).

#### 3.2.3 Social Vulnerability

Demographic and socioeconomic characteristics of the City that are disproportionately impacted by climate change risks include but are not limited to communities that are low-income, non-white, and disabled. For example, these populations may live in geographic areas that are sited next to major roadways and thus be disproportionately exposed to pollution from vehicles caused by industry and commerce. These populations may also be particularly exposed to extreme heat, which can have a compounding effect with air pollution. The California Environmental Protection Agency (CalEPA) identifies these areas as "disadvantaged communities" (DAC) and utilizes funding provided by SB 535 (De Leon, 2012) and AB 1550 (Gomez, 2016) to invest in planning and infrastructure upgrades.

#### Vulnerable Populations

Oakley's population comprises mainly young children and young adults with the largest racial and ethnic group identified as Non-Hispanic White; however, Hispanic or Latinx and other non-Hispanic race groups are the fastest growing racial groups and make up more than half the City's population. <sup>13</sup> The City contains a census tract that is identified as a disadvantaged community (see Figure 7). The census tract is generally located in northwest Oakley and is adjacent to a former chemical plant that is currently operated as an industrial logistics center located east of Bridgehead Road and north of the railway. Within the census tract, there are also hazardous materials facilities such as metal scrap yards and auto repair shops. <sup>14</sup>

<sup>&</sup>lt;sup>12</sup> The details to this analysis are further described in Appendix C.

<sup>&</sup>lt;sup>13</sup> 2023-2031 Oakley Housing Element, Chapter 2

<sup>&</sup>lt;sup>14</sup> 2024 County Local Hazard Mitigation Plan, City of Oakley Annex

SB 535 Disadvantaged Communities 2022 (Census Tracts)

SB 535 Disadvantaged Communities 2022 (Federal Tribal Areas)

SB 535 Disadvantaged Communities (Additional Tribal Areas 2024)

Big Break

Dutch Slough Bethel Island Dutch Slough Beth

Lone Tree Way

Figure 7. SB 535 Disadvantaged Communities in Oakley

In addition to the measure of social vulnerability discussed above, there are two other methods of social vulnerability measurement: Costs to consumer and the California Healthy Places Index (HPI). Costs to the consumer is identified through the California Air Resources Board (CARB) climate vulnerability metric (CVM) to provide a perspective of assessing climate change impacts at the census tract level. Based on the CVM, the City is anticipated to experience an annual impact on human welfare equivalent to roughly one percent of tract-level income by mid-century. <sup>15</sup> This indicates projections such as: flood-related property damage costs to increase, electricity consumption to remain stable, and natural gas consumption to decrease. Similarly, the California HPI measures social vulnerability by a percentile ranking based on a jurisdiction's community conditions. The conditions include education, job opportunities, access to clean air and water, access to transportation options and healthcare, dignified housing, and other attributes as indicators of a healthy community. The City is identified to have 67.3% healthier conditions compared to other jurisdictions in California; however, it is lower than the Contra Costa County (County) average (91.1 percentile); thus, indicating significant disparities may be present among jurisdictions within the County.

<sup>&</sup>lt;sup>15</sup> CARB Climate Vulnerability Metric. 2022.

#### 3.3 Findings

#### 3.3.1 Climate Hazards

The long-term climate effects predicted to be experienced by the City include:

- 1. changes in precipitation patterns;
- 2. increased risk of flooding;
- 3. higher temperatures;
- 4. sea level rise; and
- 5. increased risk of wildfires.

### Climate change effects

In the coming years, Oakley will likely experience changes in precipitation patterns, increased flooding and wildfire risk, higher temperatures, and sea level rise as a result of climate change.

For instance, local annual levels of precipitation in the City are not anticipated to change drastically; however, there may be slight increases towards the end of the century. Temperature changes in the City are projected to change in terms of extreme heat days, which in turn can exacerbate and expand wildfire risks. Although annual precipitation in the City is not projected to be influenced much by future climate change, the pattern of precipitation is predicted to change. Storms with higher rain intensities and a shorter wet season may lead to increased urban and riverine flooding accompanying future storm events. In addition, rising sea levels may compound the impacts of high precipitation events, may lead to coastal flooding during storm surge, and is predicted to contribute to inland flooding by increasing groundwater levels.

#### 3.3.2 Asset Vulnerability and Risk

From the intermediary steps listed above, fifteen broad asset categories were identified and paired with priority hazards to determine probability, magnitude, and climate risk. These "asset-hazard pairs" were assessed according to low, medium, and high definitions to reach a composite risk rating. <sup>16</sup> It is important to note that the outcome of "Take Action" or "Accept Risk" for the composite risk rating should not be understood as a "final" decision by the City, but rather a recommended next step for the City as it evaluates further action. Drawing on Table 4, asset-hazard pairs identified to have a "Take Action" result were evaluated for anticipated future actions, which included:

- Recommendation for future study;
- Coordination with other agencies;
- Plan for inclusion in future capital investment programs (CIPs); and
- Create/modify policy, goal, or ordinance(s).

<sup>&</sup>lt;sup>16</sup> The low, medium, and high definitions for sensitivity, adaptative capacity, probability and magnitude are summarized in Appendix D.

Table 4. Asset Vulnerability and Climate Hazard Risks

Asset(s)	Precipitation	Flooding	Severe Storms and Extreme Weather	Temperature Changes – Warming	Wildfire	Sea Level Rise
Farmland and Vineyards	Take Action	Accept Risk	Accept Risk	Take Action	Accept Risk	Accept Risk
Legless Lizard Preserve	Accept Risk	Accept Risk	Accept Risk	Take Action	Accept Risk	Accept Risk
Big Break and Driftwood Marina	Accept Risk	Accept Risk	Accept Risk	Accept Risk	Accept Risk	Take Action
Detention Basins	Accept Risk	Accept Risk	Accept Risk	Take Action	Accept Risk	Accept Risk
Randall-Bold Water Treatment Plant	Accept Risk	Accept Risk	Accept Risk	Take Action	Accept Risk	Accept Risk
Levees	Take Action	Take Action	Take Action	Take Action	Accept Risk	Accept Risk
Educational Facilities	Take Action	Accept Risk	Accept Risk	Accept Risk	Accept Risk	Accept Risk
Utilities	Take Action	Accept Risk	Accept Risk	Accept Risk	Accept Risk	Accept Risk
Residential	Take Action	Take Action	Accept Risk	Take Action	Accept Risk	Take Action
Commercial Designations	Take Action	Take Action	Take Action	Take Action	Accept Risk	Accept Risk
Hospitals, clinics, medical centers, etc.	Accept Risk	Accept Risk	Accept Risk	Take Action	Accept Risk	Accept Risk
Highway bridges, road pass, rail, bike lanes	Take Action	Take Action	Accept Risk	Take Action	Accept Risk	Take Action
Ironhouse Sanitary District	Take Action	Take Action	Accept Risk	Accept Risk	Accept Risk	Accept Risk
Solid waste/recyclin g and hazardous materials services	Take Action	Accept Risk	Accept Risk	Accept Risk	Accept Risk	Accept Risk
Downtown Oakley	Take Action	Take Action	Take Action	Take Action	Accept Risk	Accept Risk

#### 4 CLIMATE ACTION ROADMAP

#### 4.1 Overview

To reduce GHG emissions and enhance climate resilience in the City of Oakley, this plan identifies 14 overarching **goals** supported by 39 quantitative or time-bound **targets** and accompanying specific **actions** across four sustainability categories: Governance and Leadership, Buildings and Energy, Transportation and Land Use, and Adaptation and Resilience. This roadmap is intended to guide the CAP's implementation, identifying 113 specific actions that the City can take towards the CAP goals and targets with information about estimated cost and emissions impacts.

#### 4.2 How to Read this Roadmap

All goals and targets are organized numerically, with the targets folding underneath each goal and individual actions folding underneath each target. Each action is accompanied by additional supporting information that is included to help guide Oakley as it prioritizes CAP implementation efforts. This supporting information includes:

- A scope, municipal or community-wide, which refers to the intended target area and reach for that particular action
- Rough order of magnitude (ROM) cost, defined as:
  - o \$ = \$0-\$100,000
  - o \$\$ = \$100,001—\$500,000
  - o \$\$\$ = \$500,001—\$1,000,000
  - o \$\$\$\$ = > \$1,000,000
  - FTE (Full-time Employee) = Estimated staff time required by existing employee(s)
- ROM emissions reduction, defined as:

  - PP = Low emissions reduction potential
  - Mag = Moderate emissions reduction potential
  - ■■■■ = High emissions reduction potential

#### 4.3 Governance and Leadership

To successfully implement this CAP, the City must weave climate action into its governance. This includes embedding carbon reduction and resilience practices across City facilities and operations, pursuing strong, long-lasting regional partnerships to achieve collective climate goals, establishing communications and outreach strategies for climate efforts, and identifying and securing funding opportunities to support these activities.

Goal G-1 Implement carbon reduction and climate resilience practices across City operations and facilities							
Target No.	Target	Actions	Scope		Emissions Reduction		
G-1.1	Formalize climate and sustainability priorities and metrics in city budgeting,	Develop sustainability goals priorities for each department and incorporate into performance objectives, annual reviews, and budgeting	Municipal	0.5 FTE	999		
		Issue biennial progress reports on CAP implementation and update the CAP every five (5) years	Municipal	0.5 FTE	22		
	Mobilize and provide resources to staff to oversee CAP implementation and sustainability initiatives by 2026	Formulate a Climate Action Steering Committee or Working Group with a dedicated team of key departmental leads responsible for overseeing the implementation of CAP and adjacent sustainability programs and policies	Municipal	3-4 FTE	3333		

Goal G-2 Bolster regional par	tnerships to identify and achieve	shared climate goals			
Target No.	Target	Actions	Scope	ROM Cost	Emissions Reduction
G-2.1	Establish formal collaborations with neighboring jurisdictions to adopt coordinated climate-	Assemble a Sustainability or Climate Action Advisory comprising key stakeholders in Oakley and nearby jurisdictions to identify and work toward shared priorities	Municipal + Community -wide	1 FTE	999
	resilience strategies by 2030	Develop key regional metrics and evaluate progress toward achieving these metrics on an ongoing basis	Municipal + Community -wide	1 FTE	222
G-2.2	Develop guidelines for effective engagement and collaboration with Community-based Organizations (CBOs) regarding climate and	Identify and collaborate with key CBO partners, such as Sustainable Contra Costa, to develop and publish working guidelines for CBO engagement and collaboration on climate initiatives	Municipal + Community -wide	0.5 FTE	99
	sustainability initiatives by 2028	Highlight examples of successful CBO partnership on climate initiatives in publicfacing reporting and marketing materials	Municipal	0.5 FTE	99
G-2.3	Partner with the Diablo Water District (DWD) and local business groups to coordinate energy and water efficiency, sustainable purchasing, waste reduction, professional	Convene a working group of DWD representatives and members of Oakley's business community on a recurring basis to identify and progress toward key sustainability priorities and concerns	Municipal + Community -wide	0.5 FTE	222
	development opportunities, and other sustainable practices by 2026	convene with the Oakley	Municipal + Community -wide	0.5 FTE	999

Goal G-3 Develop outreach	and communications strategies fo	or climate action and adap	otation efforts	<b>S</b>	
Target No.	Target	Actions	Scope	ROM Cost	Emissions Reduction
G-3.1	Develop a public-facing dashboard to show progress on specific CAP climate goals and	Identify a dashboard platform to report progress on CAP goals, sustainability metrics, and key actions	Municipal	\$	22
	metrics by 2027	Update dashboard and GHG inventories every 2 years	Municipal	\$\$\$	22
G-3.2	Issue recurring (monthly, quarterly, or biannual) communications to Oakley community members reporting out on CAP progress, starting in 2025	Create and adopt a template format and channel (e.g., Outreach e-News, Oak Leaf Newsletter, social media, blog-style posts on website) for recurring CAP progress updates	Municipal	\$	22
		Develop system for tracking and showing success stories for highlighting in public communications	Municipal	0.5 FTE	22
G-3.3	Plan recurring (e.g., quarterly, biannual, annual) community events related to climate	Hold 1-2 community events per year in partnership with community stakeholders on key climate topics	Municipal + Community- wide	\$\$\$	222
G-3.3	activities to engage community members and hear feedback on city progress, starting in 2025	Establish feedback channels for community members to engage the City on CAP initiatives and progress	Municipal + Community- wide	0.5 FTE	222
	Develop a public-facing sustainability toolkit for	Develop toolkit in collaboration with subject matter experts, CBOs, and other key stakeholders	Municipal + Community- wide	0.5 FTE	22
G-3.4	community members with tips for behavior change that promotes climate change adaptation and mitigation by 2026	Publish toolkit on Oakley's website and market to other channels (e.g., physical flyers at Oakley library, schools, Oakley Senior Center, and other community hubs)	Municipal + Community- wide	\$\$	999

oal G-4 ntify and secu	re funding for municipal climate eff	forts			
Target No.	Target	Actions	Scope		Emissior Reduction
	Develop a funding strategy for successful implementation of	Identify federal and statewide funding sources and levels for CAP goals and targets	Municipal	0.5 FTE	99
G-4.1	G-4.1 CAP and related sustainability initiatives by Fiscal Year (FY) 2026	Track and report out on funding for CAP implementation as part of annual reporting process	Municipal	0.5 FTE	ø
	Secure additional local, regional, state, and federal	Apply for and secure grants and funding opportunities for Oakley's climate efforts from local, regional, state, and federal funding sources	Municipal	1 FTE	222
G-4.2	G-4.2 funding for Oakley's climate efforts and initiatives on an ongoing basis	Partner with other cities, agencies, and jurisdictions on larger grant funding opportunities for community-wide climate action	Municipal + Community- wide	1 FTE	222
G-4.3	Identify alternate funding streams to support CAP	Explore opportunities to allocate a portion of preexisting municipal revenue-generating activities into CAP implementation funding	Municipal	0.5 FTE	99
G-4.3	implementation and climate activities on an ongoing basis	Explore community fundraising opportunities associated with future climate community events and working groups	Municipal + Community- wide	\$\$	99

# What we heard

In public workshops, community members emphasized the need for community events and educational resources related to climate activities. They emphasized the importance of tracking and reporting on key climate action initiatives, as well as the need for City staff to thoughtfully and thoroughly integrate climate action goals and metrics into City policy, budgeting, and initiatives.



#### G-3.3

Plan recurring (e.g., quarterly, biannual, annual) community events related to climate activities to engage community members and hear feedback on city progress, starting in 2025

#### G-1.1

Formalize climate and sustainability priorities and metrics in city budgeting, management, and other operations by 2028

G-3.4

Develop a public-facing sustainability toolkit for community members with tips for behavior change that promotes climate change adaptation and mitigation by 2026

## 4.4 Buildings and Energy

Some of the residual emissions to be neutralized across City operations and community-wide come from the building sector, specifically having to do with energy demand and natural gas use. Oakley will take steps to ensure that the City's energy systems are efficient and resilient far into the future. This includes decarbonizing identifying opportunities to reduce energy demand across municipal and community-wide buildings, as well as promoting grid resilience through local renewable energy.

Goal B-1 Reduce overall ene	Goal B-1 Reduce overall energy demand through building electrification and other energy efficiency measures								
Target No.	Target	Actions	Scope	ROM Cost	Emissions Reduction				
		Benchmark energy use across municipal buildings and establish targets for reducing energy consumption	Municipal	0.5 FTE	g				
		Install LED lighting in municipal buildings and infrastructure	Municipal	\$	9				
B-1.1	Electrify municipal buildings and assets by 2035	Enroll remaining City electric accounts into MCE Clean Energy rate options for 100% carbon-free electricity, as financially feasible	Municipal	\$\$	999				
		Require energy audits during significant remodels for municipal buildings	Municipal	\$	<i>22</i>				
		Promote energy efficiency initiatives and programs	Community- wide	\$	9				
	Improve energy efficiency across residential and commercial buildings by 2040	Enroll remaining electricity accounts for MCE Clean Energy	Community- wide	\$	22				
B-1.2		Establish programs to promote customer enrollment in 100% renewable options	Community- wide	\$	22				
		Require energy performance ratings, disclosures, and educational materials for all buildings to inform buyers or renters	Community- wide	\$	ø				

Goal B-1 (continued)
Reduce overall energy demand through building electrification and other energy efficiency measures

Target No.	Target	Actions	Scope	ROM Cost	Emissions Reduction
	 	Develop public-facing educational materials for buyers or renters to better understand energy performance ratings or disclosures	Community- wide	\$	9
		Implement energy audit and retrofit program for building and property owners to advance adoption of energy-efficient appliances in alignment with State regulations, emphasizing older buildings and buildings not recently audited	Community- wide	1 FTE	2222
	Improve operav officionov	Adopt policies that require residential and commercial buildings to undergo energy audits during significant remodels	Community- wide	\$	99
B-1.2	Improve energy efficiency across residential and commercial buildings by 2040	Partner with PG&E and MCE Clean Energy to provide educational resources and financial support to homeowners to enroll in green electricity programs	Community- wide	\$	222
		Identify and provide educational resources to building owners on the benefits of electrification and how to reduce carbon emissions from their buildings; ensure resources and support reach low-income community members	Community- wide	\$	999
		Streamline permitting and/or incentivize solar installations and/or energy storage systems on residential and non-residential buildings and properties	Community- wide	\$	9

Goal B-1 (continued)
Reduce overall energy demand through building electrification and other energy efficiency measures

Target No.	Target	Actions	Scope	ROM Cost	Emissions Reduction
		Establish energy and water efficiency requirements in new construction in alignment with regional and statewide regulations	Municipal + Community- wide	\$	2222
B-1.3	Establish energy efficiency and electrification requirements for all new municipal and community-wide buildings by	Incentivize projects that meet green building standards or certifications through land use tools (e.g., density bonus, parking reductions)	Municipal + Community- wide	\$\$	ø
	2030	Support city staff pursuing green building certifications and accreditations through department training budgets and tuition reimbursement opportunities	Municipal + Community- wide	\$	ø
B-1.3	Establish energy efficiency and electrification requirements for all new municipal and	Explore development code amendments that establish solar-ready construction requirements in alignment with state goals		\$	9
	community-wide buildings by 2030	Develop guidelines for sustainable deconstruction and materials salvaging for reuse	Municipal + Community- wide	\$	99

**Goal B-2**Install and promote distributed energy resources (DERs) to provide local renewable energy and promote grid resilience

Target No.	Target	Actions	Scope	ROM Cost	Emissions Reduction
		Identify available and feasible municipal sites (buildings, carports) for solar PV installation	Municipal	\$\$	**
B-2.1	Install 1 Megawatt (MW) of new solar photovoltaic (PV) capacity on all available and feasible municipal sites (buildings,	Coordinate with electric utilities to install battery energy storage systems in municipal facilities	Municipal	\$\$	9
	carports) by 2030	Devote municipal properties as host sites for community solar and renewable energy projects	Municipal	\$	2
B-2.2	Establish equipment replacement plans to electrify equipment for building construction and maintenance by 2027	Partner with Bay Area Regional Energy Network (BayREN) to promote and distribute electrification incentives	Community- wide	\$	9 9
	Collaboratively develop incentive and rebate programs for residential and community solar installations on an ongoing basis	Work with BayREN, MCE, and other regional partners to identify and secure funding for residential and community solar and microgrid installations	Community- wide	\$	99
B-2.3		Provide and promote educational resources and programs to encourage Oakley residents to enroll in community solar and community microgrids	Community- wide	\$	9

# What we heard

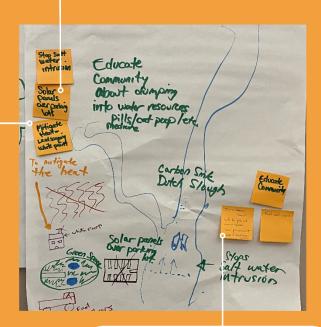
During public workshops, Oakley residents expressed that energy efficiency and electrification were critical priorities for the City to pursue. In addition, residents offered their ideas for how the City could establish critical goals for green building requirements and increasing solar installations community-wide in the coming years.

#### B-2.1

Install 1 MW of new solar photovoltaic (PV) capacity on all available and feasible municipal sites (buildings, carports) by 2030

B-1.2

Improve energy efficiency across residential and commercial buildings by 2040



B-1.3

Establish energy efficiency and electrification requirements for all new municipal and community-wide buildings by 2030

#### 4.5 Transportation and Land Use

Most municipal and community-wide emissions in Oakley can be attributed to transportation. To reduce these emissions, the City will take a variety of steps, including promoting active and public transportation options for Oakley residents, encouraging a community-wide transition to electric vehicles (EVs), and using zoning and land use tools to encourage transit-oriented development (TOD) and reduce vehicle miles traveled (VMT).

Goal T-1 Promote active an	Goal T-1 Promote active and public mobility options across Oakley								
Target No.	Target	Actions	Scope	ROM Cost	Emissions Reduction				
		Implement mobility projects and street-level enhancements that encourage safe active transportation through 'complete streets' planning (e.g., seating, shade, ADA ramps, protected bike lanes)	Municipal	\$\$	9999				
	Encourage and monitor the shift toward active transportation (e.g., walking, biking, rolling) or shared transportation (e.g., rideshare, carpooling, school busing) as	Explore bike-share programs and encourage expansion of bike-share stations and dedicated bike parking areas	Municipal	\$\$\$	99				
T-1.1		Explore safety and feasibility of electric shared mobility programs and provide resources for communities that are lower-income and/or face mobility barriers	Municipal	\$\$\$	999				
	options on an ongoing basis	Support bike- and roll-to- school events and activities in coordination with local school districts	Municipal + Community- wide	\$	22				
		Partner with local school districts to explore bus rollouts to mitigate congestion and vehicle miles traveled (VMT)	Municipal + Community- wide	\$\$\$	999				
		Amplify Contra Costa Transportation Authority's E-Bike Rebate Program, which provides rebates for e-bikes, with larger rebates for low-income households		0.5 FTE	99				

Goal T-1 (conti	<b>inued)</b> nd public mobility options across	Oakley			
Target No.	Target	Actions	Scope	ROM Cost	Emissions Reduction
	Encourage and monitor the shift toward active	Establish mode shift targets and strategies for achieving these targets, such as car-free corridors in appropriate areas	Municipal	\$	999
T-1.1	biking, rolling) or shared transportation (e.g., rideshare, school busing) as climate resilient mobility options on an ongoing basis	Collaborate with local businesses, CBOs, and advocates to host 'open street' events that close streets to car traffic and feature family-friendly activities	Municipal + Community- wide	\$\$ \$\$	ø
		Collaborate with Tri Delta Transit and other transit agencies serving Oakley to increase service areas, service frequency, system efficiency, and accessibility through system enhancements	Municipal	\$\$	222
T-1.2	Invest in at least three programs or initiatives that encourage community-wide use of public transit, with a focus on urban growth areas and communities with disadvantaged or vulnerable individuals by 2030	Partner with local businesses and schools to provide free or reduced transit fares for youth, students, seniors, lowincome riders, and riders with disabilities	Municipal + Community- wide	1 FTE	99
		Invest in bus stop improvements by installing shelters, shade trees, seating, and other improvements for rider safety and comfort	Municipal	\$\$\$	999
		Develop and distribute accessible community education resources that inform Oakley residents about the benefits of public transit and local service offerings	Municipal	1 FTE	Ø
T-1.3	Leverage partnerships with local, regional, and national institutions to promote mode shift and active transportation on an ongoing basis	Coordinate with pedestrian and bike plans of neighboring jurisdictions to expand and strengthen safer walking and bicycling infrastructure	Municipal	\$	999

<b>Goal</b> Encou		ehicles (EVs) for vehicle trips that are una	avoidable		
Target No.	Target	Actions	Scope	ROM Cost	Emissions Reduction
		Streamline permitting process for EV charging installation city-wide	Municipal	\$	22
		Explore opportunities to further expand Oakley's publicly available EV charging network	Municipal	\$\$	222
	Install Level 2 and Level 3 and public EV chargers to meet	Partner with schools and major employers to install additional charging stations in parking lots for employees	Municipal + Community- wide	\$	22
1-2.1	community-wide demand by 2035	Establish EV charger installation incentives and educational resources for multi-family residences and affordable housing developments	Municipal	\$	22
		Increase consumer awareness about EV options, incentives, and charging installation options through partnerships with industry experts, environmental advocates, and local businesses	Municipal + Community- wide	\$	22
		Develop a municipal fleet management plan that mandates newly-purchased city vehicles are zero-emission vehicles (ZEV)	Municipal	\$	22
		Introduce bicycles and e-bikes as fleet vehicle alternatives where appropriate	Municipal	\$\$	99
T-2.2	Transition Oakley's municipal fleet to zero-emission vehicles (ZEV) by 2040	Partner with Oakley Union Elementary School District, Antioch Unified School District, and Liberty Union High School District to transition to zero-emission bus fleets over time	Municipal + Community- wide	\$\$\$\$	222
		Increase quantity of EV charging stations on municipal property, particularly to meet the projected increased demand from additional municipal fleet vehicles	Municipal	\$\$	22

Goal T-3 Implement zoning and land use tools that promote transit-oriented development (TOD) and reduce vehicles miles traveled (VMT)						
Target No.	Target	Actions	Scope		Emissions Reduction	
		Identify key infrastructure components and amenities needed for effective '15-minute city' planning and infill development	Municipal	2 FTE	22	
	Pursue '15-minute city' planning efforts such that at least 75% of community	Support zoning and code adjustments to make public investments in key '15-minute city' amenities identified	Municipal	\$	9999	
T-3.1	members have access to basic amenities within a 15- minute walk or bike ride from home by	Collaborate with jurisdictions and advocates to bolster a regionally-connected, safe bike and pedestrian network that encourages active transportation	Municipal + Community- wide	\$	2222	
	(	Improve connections between existing trail systems to facilitate greater accessibility and use among Oakley residents and visitors	Municipal	\$\$	9	
T-3.2	Incentivize the transition toward a greater percentage of high- and	Encourage higher density affordable housing development along high-frequency transit corridors	Municipal	\$	222	
	gentle-density measures in high-frequency transit areas	Expand 'missing middle' housing typologies (e.g., duplexes, triplexes) through code changes and other planning initiatives to increase housing diversity	Municipal	\$	222	
T-3.3		Execute a first/last-mile analysis that identifies communities with low public transportation access and recommends supplemental solutions to enhance Oakley's transportation network	Municipal	\$	222	
T-3.4	public and active transportation options	Identify criteria for when parking minimums could be reduced or removed, as well when parking maximums could be established	Municipal	1 FTE	22	
	and implement at least two pilot projects for reducing excessive parking by 2030	Implement and evaluate pilot projects related to parking minimums and/or maximums for reducing excessive parking	Municipal	\$\$	99	

# What we heard

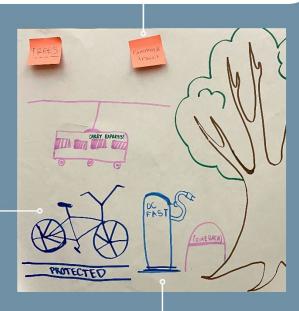
Oakley residents and community stakeholders stressed the importance of reducing emissions from transportation. These included, but were not limited to, investments in charging for electric vehicles, active transportation, and public transit. Furthermore, residents emphasized the need for increased mobility options across Oakley for low-income community members and residents with mobility barriers.

#### T-1.2

Invest in at least three programs or initiatives that encourage community-wide use of public transit, with a focus on urban growth areas and communities with disadvantaged or vulnerable individuals by 2030

#### T-1.1

Encourage and monitor the shift toward active transportation (e.g., walking, biking, rolling) or shared transportation (e.g., rideshare, carpooling, school busing) as climate resilient mobility options on an ongoing basis



#### T-2.1

Install Level 2 and Level 3 public EV chargers to meet communitywide demand by 2035

#### 4.6 Adaptation and Resilience

In order to effectively plan for the future of climate change impacts, the City of Oakley will bolster the capacity of city infrastructure and Oakley residents to withstand, adapt, and recover from adversity. The City will take steps to better monitor and improve municipal infrastructure to weather climate impacts, improve resource resilience of the built environment, ecosystems, and agricultural infrastructure.

Target No.		spaces to withstand climate impacts (e	Scope	ROM Cost	Emissions Reduction
Deploy nature-based solutions that sequester emissions, reduce urban heat island impacts, and bolster healthy ecosystems on an ongoing basis	Plant and maintain additional shade- providing street streets and urban greenery, with particular emphasis on native and drought tolerant plants	Community- wide	\$	2	
	Conduct an equity-based analysis of tree canopy coverage to identify climate burdened communities most in need of additional shading	Community- wide	\$	9	
	Partner with designers and landscapers to install and maintain rain gardens, infiltration basins, and other nature-based solutions for stormwater capture on municipal land	Community- wide	\$\$	Ø	
	Partake in early action to eliminate or control non-native invasive insect species that take advantage of climate impacts	Community- wide	\$	9	
		Explore Indigenous practices and nature-based solutions for proactively wildfire management resilience, such as prescribed burns	Community- wide	\$	222

Goal A-1 (continued) Improve city infrastructure and open spaces to withstand climate impacts (e.g., extreme heat, fires, floods)						
Target No.	Target	Actions	Scope			
A-1.2		Identify locations for and install additional amenities like shade structures, splash pads, and water bottle filling and drinking water fountains	Community- wide	\$	Reductio	
	Explore additional extreme heat adaptation opportunities for	Prioritize retrofitting public buildings to strengthen safe community spaces	Community- wide	\$\$- \$\$\$	9	
	implementation by 2030 s	Develop and implement an extreme heat resilience strategy that includes land use, urban design, urban greening, and waste heat reduction actions	Community- wide	\$\$- \$\$\$\$	ø	
A-1.3		Establish guidance for cool roofs and surfaces on building roofs/surfaces, roadways, sidewalks, and parking lots	Community- wide	\$	2	
	Establish climate- resilient building design	Review and update long range plans every five years to ensure that storm water design relies upon the latest scientific findings on changing precipitation patterns	Community- wide	\$	ø	
	standards by 2030	Coordinate with other agencies (federal or state) on sea level rise (SLR) adaptation measures	Community- wide	\$	Ø	
		Select native drought and pest resistant trees, shrubs, and grasses for landscaping in building design plans	Community- wide	\$	ø	

Goal A-2 Bolster community-wide emergency response networks and resource-sharing						
Target No.	Target	Actions	Scope		Emissions Reduction	
A-2.1	Establish and support resilience hubs on an ongoing basis	Partner with community-based organizations (CBOs) such as Sustainable Contra Costa, peer agencies (e.g., East Bay Regional Parks District), schools, faith-based institutions, and other groups to ensure that their communities are prepared for climate emergencies	Community- wide	\$	9	
A-2.2	Conduct training and provide resources for	Develop and conduct training with local businesses, homeowners associations, tenant organizations, and other groups to share information about Oakley's climate resilience programs and emergency response protocol	Community-	\$	9	
A-2.2	emergency response on an ongoing basis	Collaborate with community- based organizations (CBOs) and other agencies to develop programs that identify and support vulnerable individuals during climate emergencies	Community- wide	\$	9	

impacts

Goal A-3 Evaluate city infrastructure standards periodically to incorporate strategies for climate impacts (e.g., extreme weather, precipitation, sea level rise, high heat, wildfires) ROM Emissions Actions Scope Target No. **Target** Cost Reduction Coordinate with federal and state Community-\$ agencies on SLR indicators, wide trends, and projections Periodically monitor Coordinate with federal and state latest scientific findings agencies on flooding and Community-\$ A-3.1 once every five years to precipitation indicators, trends, wide be informed of changing and projections climate impacts Coordinate with federal and state Community-\$ agencies on warming and wildfire wide indicators, trends, and projections Select native drought and pestresistant trees, shrubs, and Community-\$ 0 grasses for landscaping in wide infrastructure design plans Establish climate-Develop and provide homeresilient infrastructure A-3.2 hardening information to educate design standards by community members against 2030 Community-\$ possible wildfire risks and wide resilience measures, prioritizing outreach for vulnerable populations Map transportation infrastructure vulnerable to repeated floods, landslides, wildfires, and other Community-\$-\$\$ natural hazards, and designate wide alternative routes for critical transportation corridors Incorporate SLR information, along with tsunami hazard Provide annual guidance mapping and evacuation route Community-\$ for city infrastructure signage, into critical area wide A-3.3 delineation for recreational areas vulnerable to climate and ecological preserves

Develop green infrastructure in capital projects to help capture,

Ensure energy infrastructure is able to accommodate high heat

renewable energy opportunities

events and accommodate

runoff

filter, store, and reuse stormwater

Community-

wide

Community-

wide

\$\$\$-

\$\$\$\$

\$\$-\$\$\$

1

99

<b>Goal A-4</b> Establish land use patterns that increase the resilience of the built environment, ecosystems, and communicates to climate impacts						
Target No.	Target	Actions	Scope	ROM Cost	Emissions Reduction	
A-4.1		Require developers to demonstrate appropriate solutions in applications for development at urban or suburban densities in 100-year floodplain areas, 200-year flood-prone areas	Community- wide	\$\$- \$\$\$\$	ø	
	Encourage strategic development for increased resiliency on an ongoing basis	For facilities identified in City of Oakley Routes of Regional Significance, maintain acceptable service standards specified in the East County Action Plan Final 2000 Update (or more recent/future update) as adopted with consideration of climate-induced hazards	Community- wide	\$\$- \$\$\$\$	Ø	
		Include climate considerations in waste management citing and design decisions for major capital expenditures	Community- wide	\$\$- \$\$\$\$	9	
	= [ s r	Develop water reuse and storage systems to satisfy environmental regulations and protect against future threats to water availability	Community- wide	\$\$- \$\$\$\$	2	
A-4.2	Protect significant historic and ecological sites to ensure resiliency	Protect significant historic sites from climate-induced damages by incorporating the latest building design retrofits	Community- wide	\$\$\$- \$\$\$\$	9	
A-4.2	to climate impacts on an ongoing basis	Encourage preservation and protection of Delta ecosystems to foster ecological health and bolster climate resilience	Community- wide	\$	22	
A-4.3	Collaborate with purveyors to ensure city utilities and services	Investigate funding mechanisms, grants, and/or matching funds for residential establishments to account for temperature warming	Community- wide	\$-\$\$	9	
	(e.g., sanitary, water, stormwater) are enhanced according to climate projections	Work with energy utilities to improve the safety and reliability of infrastructure vulnerable to climate impacts	Community- wide	\$-\$\$	2	

<b>Goal A-5</b> Ensure agriculture adaptation resources are coordinated, funded and staffed to support farmers in making informed business decisions in a changing climate							
Target No. Target Actions Scope ROM En							
	Prepare the City of Oakley to anticipate changes to	Encourage regenerative agriculture and ocean farming where practicable	Community- wide	\$\$- \$\$\$	9		
A-5.1	standard agricultural	Support changes to agricultural crops and irrigation methods in anticipation of precipitation changes and temperature	Community- wide	\$-\$\$	ø		

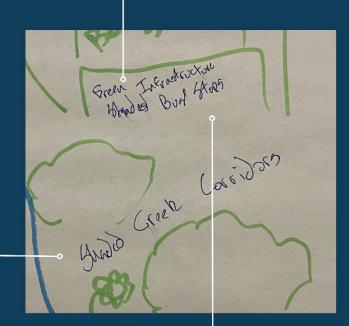
warming

# What we heard

Throughout the planning process, Oakley residents and stakeholders emphasized the need for climate-resilient infrastructure design and nature-based solutions to foster resilience to extreme heat and ecosystem health far into the future. Multiple stakeholders highlighted the importance of the Delta and water resource systems as integral to community-wide resilience.

#### A-1.2

Explore additional extreme heat adaptation opportunities for implementation by 2030



#### A-1.1

Deploy nature-based solutions that sequester emissions, reduce urban heat island impacts, and bolster healthy ecosystems on an ongoing basis

#### A-3.2

Establish climate-resilient infrastructure design standards

#### 4.7 Implementing the Climate Action Plan

This *Climate Action Plan* will require the City to take several steps in the short term to implement this plan. First, the City will convene decision-makers to review all actions within the CAP and prioritize based on select criteria to determine which items can be implemented in the short term (i.e., 0-2 years), medium term (i.e., 3-5 years), and long term (more than five years). As items are prioritized, actions will be folded into budgetary and project planning, at which point the City will evaluate its capacity and determine where it can use existing resources to implement, as well as where it may need to secure external funding.

#### 4.7.1 Prioritization Criteria

The actions listed within this plan are not intended to be implemented concurrently, and not all actions will be possible to implement immediately. Consequently, the City will assess the complete menu of actions in the context of the following criteria.

- **Costs and benefits** Prioritize actions at the lowest overall cost to the City and its taxpayers, accounting for potential benefits, savings, and revenues from any given action.
- **Emissions reduction potential** Prioritize activities with the greatest potential to reduce GHG emissions upon implementation.
- Resilience and equity co-benefits Prioritize actions that center climate resilience and community-wide equity, or otherwise present tangible resilience and equity co-benefits (e.g., improved infrastructure, increased mobility, reduced air pollution, more greenspace, protection from climate hazards, etc.)
- **Staffing and funding availability** Determine if a given action has staff to support it, and if the City has budget available to implement the action in part or in whole.
- Funding and partnership opportunities Determine if the action may be accompanied by a grant opportunity at the regional, state, or federal level, and/or can be achieved in partnership with other jurisdictions or agencies.

#### 4.7.2 Monitoring and Reporting

In addition, to ensure that the City makes progress on the CAP, it will commit to the following steps:

- 1. Assign responsibility through the City Manager's office to appropriate departments to execute actions within the CAP.
- 2. Coordinate with department heads form a Steering Committee that will integrate the implementation of the CAP into existing workflows and provide updates on progress.
- 3. Develop updated GHG emissions inventories at least once every two years and issue a public report on progress against the CAP, with the goal of updating the CAP every five years.

## **CONCLUSION**

As one of California's youngest incorporated cities, we are proud to offer residents and families a vibrant and diverse place to call home. Our city is quickly evolving, and we will continue to strive to keep Oakley's small-town character while incentivizing development and opportunity in our community to keep growing. But everything we are doing, and everything we hope to do in the future, will be at risk if we do not act on climate change now.

This Climate Action Plan is more than just a statement of intent, but it is also a call to action. Everything we hope to achieve in this Plan is only possible with a united and active community, and we believe this Plan offers one of the most critical opportunities yet for Oakley residents to work together to make our home a safe and welcoming place now and well into the future. We invite residents to join us for future workshops, listening sessions, and City events and to lend us their voice on this issue. We also invite our partners along the Delta and across both Contra Costa County and the state of California to partner with us on ways to make our region more resilient to the impacts of climate change. So much more is possible when we work together.



#### APPENDIX A: GLOSSARY AND ABBREVIATIONS

#### Glossary A-1

Adaptation – Adjustment or preparation of natural or human systems to a new or changing environment which moderates harm or exploits beneficial opportunities. 17

Adaptive capacity – The ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or to respond to consequences. 18

Anthropogenic (human-caused) GHG (greenhouse gas) emissions – Emissions of greenhouse gases (GHGs), precursors of GHGs and aerosols caused by human activities. These activities include the burning of fossil fuels, deforestation, land use and land-use changes, livestock production, fertilization, waste management and industrial processes. 19

Business-as-usual (BAU) scenario – A projection of future environmental and social conditions based on the assumption that current trends and practices will continue without significant change.

Business-as-planned (BAP) scenario – A projection of future environmental and social conditions that accounts for existing actions and the impacts of state and federal regulations.

Carbon dioxide equivalent (MTCO2e) - A metric measure used to compare the emissions from various greenhouse gases based upon their global warming potential. Carbon dioxide equivalents are commonly expressed as metric tons of carbon dioxide equivalents (MTCO<sub>2</sub>e). The carbon dioxide equivalent for a gas is derived by multiplying the tons of the gas by the associated global warming potential. MTCO<sub>2</sub>e = (metric tons of a gas) \* (global warming potential of the gas).<sup>20</sup>

**Carbon neutrality** – The state in which an organization has a net-zero carbon footprint, meaning that their overall greenhouse gas emissions are balanced by removing an equivalent amount of carbon dioxide from the atmosphere, or by offsetting emissions through investments in renewable energy or other carbon-reducing projects.

Climate change – A long-term shift in average weather patterns. It is caused mainly by burning fossil fuels for energy, which releases greenhouse gases. These gases form a blanket of pollution over the earth that traps heat in the atmosphere. This effect, also known as global warming, is causing our planet to overheat, leading to more severe wildfires, droughts, floods, and more. 21

Climate hazards – Risks posed to human societies, ecosystems, and economies by extreme weather events and other environmental changes resulting from global climate change.

<sup>&</sup>lt;sup>17</sup> U.S. Environmental Protection Agency (EPA), Glossary of Climate Change Terms, 2016. Available at https://19january2017snapshot.epa.gov/climatechange/glossary-climate-change-terms\_.html. Accessed March 3, 2025.

<sup>18</sup> IPCC (Intergovernmental Panel on Climate Change), Special Report: Global Warming of 1.5° C, Annex I: Glossary, 2018. Available at https://www.ipcc.ch/sr15/chapter/glossary/. Accessed March 3, 2025.

<sup>&</sup>lt;sup>19</sup> IPCC (Intergovernmental Panel on Climate Change), Special Report: Global Warming of 1.5° C, Annex I: Glossary, 2018. Available at https://www.ipcc.ch/sr15/chapter/glossary/. Accessed March 3, 2025.

<sup>&</sup>lt;sup>20</sup> Eurostat, Statistics Explained, Glossary, n.d. Available at https://ec.europa.eu/eurostat/statistics-

explained/index.php?title=Glossary:Carbon\_dioxide\_equivalent. Accessed March 3, 2025.

21 California Environmental Protection Agency (CalEPA), California Climate Dashboard, 2025. Available at <a href="https://calepa.ca.gov/climate-pack-agency-cli dashboard/. Accessed March 3, 2025.

(Climate) exposure – The presence of people, infrastructure, natural systems, and economic, cultural, and social resources in areas that are subject to harm. <sup>22</sup>

**(Climate) resilience** – A capability to anticipate, prepare for, respond to, and recover from significant multi-hazard threats with minimum damage to social well-being, the economy, and the environment. <sup>23</sup>

**Climate sensitivity** – The level to which a species, natural system, or community, government, etc., would be affected by changing climate conditions. <sup>24</sup>

**Climate vulnerability** – The propensity of exposed elements such as human beings, their livelihoods, and assets to suffer adverse effects when impacted by hazard events. <sup>25</sup>

**Disadvantaged community (DAC)** – The areas throughout California which most suffer from a combination of economic, health, and environmental burdens. These burdens include poverty, high unemployment, air and water pollution, presence of hazardous wastes as well as high incidence of asthma and heart disease. <sup>26</sup>

**Greenhouse Gas (GHG)** – Those gaseous constituents of the atmosphere, both natural and anthropogenic, that absorb and emit radiation at specific wavelengths within the spectrum of terrestrial radiation emitted by the Earth's surface, the atmosphere itself and by clouds. This property causes the greenhouse effect. Water vapor (H2O), carbon dioxide (CO2), nitrous oxide (N2O), methane (CH4) and ozone (O3) are the primary GHGs in the Earth's atmosphere.<sup>27</sup>

**Micromobility (or micro-transit)** – Any small, low-speed, human or electric-powered transportation device, including bicycles, scooters, electric-assist bicycles (e-bikes), electric scooters (e-scooters), and other small, lightweight, wheeled conveyances. <sup>28</sup>

**Mode shift** – A change in the way people travel between different modes of transportation, such as from driving a car to using public transit, biking, or walking. It typically involves a shift from single-occupancy vehicles, which are associated with traffic congestion, air pollution, and greenhouse gas emissions, towards more sustainable and efficient modes of transportation.

**Scope 1 emissions** – Direct greenhouse gas emissions that occur from sources that are controlled or owned by an organization (e.g., emissions associated with fuel combustion in boilers, furnaces, vehicles, etc.).

<sup>&</sup>lt;sup>22</sup> California's Fourth Climate Change Assessment, Statewide Summary Report, 2018. Available at <a href="https://www.energy.ca.gov/sites/default/files/2019-11/Statewide">https://www.energy.ca.gov/sites/default/files/2019-11/Statewide</a> Reports-SUM-CCCA4-2018-

<sup>013</sup> Statewide Summary Report ADA.pdf. Accessed March 3, 2025.

<sup>&</sup>lt;sup>23</sup> U.S. Environmental Protection Agency (EPA), Glossary of Climate Change Terms, 2016. Available at <a href="https://19january2017snapshot.epa.gov/climatechange/glossary-climate-change-terms\_.html">https://19january2017snapshot.epa.gov/climatechange/glossary-climate-change-terms\_.html</a>. Accessed March 3, 2025.

<sup>&</sup>lt;sup>24</sup> California's Fourth Climate Change Assessment, Statewide Summary Report, 2018. Available at <a href="https://www.energy.ca.gov/sites/default/files/2019-11/Statewide\_Reports-SUM-CCCA4-2018-">https://www.energy.ca.gov/sites/default/files/2019-11/Statewide\_Reports-SUM-CCCA4-2018-</a>

<sup>013</sup> Statewide Summary Report ADA.pdf. Accessed March 3, 2025.

<sup>&</sup>lt;sup>25</sup> IPCC (Intergovernmental Panel on Climate Change), Determinants of Risk: Exposure and Vulnerability, 2018. Available at https://www.ipcc.ch/site/assets/uploads/2018/03/SREX-Chap2\_FINAL-1.pdf. Accessed March 3, 2025.

<sup>&</sup>lt;sup>26</sup> California Public Utilities Commission (CPUC), Disadvantaged Communities, 2025. Available at <a href="https://www.cpuc.ca.gov/discom/">https://www.cpuc.ca.gov/discom/</a>. Accessed March 3, 2025.

<sup>&</sup>lt;sup>27</sup> IPCC (Intergovernmental Panel on Climate Change), Special Report: Global Warming of 1.5° C, Annex I: Glossary, 2018. Available at <a href="https://www.ipcc.ch/sr15/chapter/glossary/">https://www.ipcc.ch/sr15/chapter/glossary/</a>. Accessed March 3, 2025.

<sup>&</sup>lt;sup>28</sup> U.S. Department of Transportation Federal Highway Administration, Micromobility, 2025. Available at <a href="https://www.fhwa.dot.gov/livability/fact\_sheets/mm\_fact\_sheet.cfm">https://www.fhwa.dot.gov/livability/fact\_sheets/mm\_fact\_sheet.cfm</a>. Accessed March 3, 2025.

**Scope 2 emissions** – Indirect greenhouse gas emissions associated with the purchase of electricity, steam, heat, or cooling. Although Scope 2 emissions physically occur at the facility where they are generated, they are accounted for in an organization's GHG inventory because they are the result of the organization's energy use.

**Scope 3 emissions** – Indirect emissions from activities or assets not owned or controlled by the reporting organization, but that the organization indirectly affects in its value chain. Scope 3 emissions include all sources not within an organization's scope 1 and 2 boundary. The scope 3 emissions for one organization are the scope 1 and 2 emissions of another organization.

**Social vulnerability** – The demographic and socioeconomic factors (such as poverty, lack of access to transportation, and crowded housing) that adversely affect communities that encounter hazards and other community-level stressors. These stressors can include natural or human-caused disasters (such as tornadoes or chemical spills) or disease outbreaks (such as COVID-19).<sup>29</sup>

**Vehicle miles traveled** – A measure used in transportation planning for a variety of purposes. It measures the amount of travel for all vehicles in a geographic region over a given period of time, typically a one-year period.<sup>30</sup>

<sup>&</sup>lt;sup>29</sup> Centers for Disease Control – Agency for Toxic Substances and Disease Registry, Social Vulnerability Index, 2024. Available at <a href="https://www.atsdr.cdc.gov/place-">https://www.atsdr.cdc.gov/place-</a>

health/php/svi/index.html#:~:text=Social%20vulnerability%20refers%20to%20the%20demographic%20and%20socioeconomic,communities%20that%20encounter%20hazards%20and%20other%20community-level%20stressors. Accessed March 3, 2025.

<sup>&</sup>lt;sup>30</sup> U.S. Department of Transportation, National Transportation Library, Methodologies used to estimate and forecast vehicle miles traveled (VMT): final report, 2016. Available at <a href="https://rosap.ntl.bts.gov/view/dot/32689">https://rosap.ntl.bts.gov/view/dot/32689</a>. Accessed March 3, 2025.

#### A-2 Abbreviations

- ABAG: Association of Bay Area Governments
- **ADA**: Americans with Disabilities Act
- BAP: Business-as-Planned
- BAU: Business-as-Usual
- BayREN: Bay Area Regional Energy Network
- Cal LCI: California Governor's Office of Land Use and Climate Innovation
- Cal OES: California Governor's Office of Emergency Services
- **CalEPA**: California Environmental Protection Agency
- CAP: Climate Action Plan
- CARB: California Air Resources Board
- **CBO**: Community-based Organization
- CH4: Methane
- CO2: Carbon Dioxide
- **CVM**: Climate Vulnerability Metric
- **CVRA**: Climate Vulnerability and Risk Assessment
- **DAC**: Disadvantaged Communities
- **DER**: Distributed Energy Resources
- **DOE**: Department of Energy

- DWD: Diablo Water District
- **EV**: Electric Vehicle
- **GHG**: Greenhouse Gas
- FTE: Full-time Employee
- FY: Fiscal Year
- **HPI**: Healthy Places Index
- **IPCC**: Intergovernmental Panel on Climate Change
- LCFS: Low Carbon Fuel Standard
- **LED**: Light-emitting Diode
- MTCO<sub>2</sub>e: Metric Tons of Carbon Dioxide Equivalent
- MW: Megawatt
- N2O: Nitrous Oxide
- **PV**: Photovoltaic
- RCPs: Representative Concentration Pathways
- ROM: Rough Order of Magnitude
- **SLR:** Sea Level Rise
- **TOD**: Transit-Oriented Development
- **USDOT**: U.S. Department of Transportation
- **VMT**: Vehicle Miles Traveled
- **ZEV**: Zero-Emission Vehicle

#### APPENDIX B: GREENHOUSE GAS EMISSIONS

#### **B-1** Baseline Emissions Inventory

The City of Oakley's baseline greenhouse gas (GHG) emissions prepared baseline greenhouse gas emission inventories for municipal and city-wide emissions. The municipal inventory is comprised of emissions resulting from the City of Oakley's operational assets and activities, including facilities, transit and other service vehicles. The community-wide inventory is comprised of emissions resulting from city-wide electricity use, gas use, and vehicles. Oakley prepared the inventory in alignment with internationally recognized standards and guidance, including ISO 14064-1:2018, the World Resources Institute (WRI), the Greenhouse Gas Protocol, the U.S. Environmental Protection Agency, and the California Air Resources Board (CARB).

#### B-1.1 Inventory Boundary and Scope

GHG emissions inventories are conventionally prepared within specific geographical, physical, and temporal boundaries that clearly define the coverage area, or boundary, of emissions recorded. For Oakley's municipal emissions inventory, Oakley established a physical boundary of Oakley-owned and -operated assets with respect to the agency's daily activities (excluding emissions from construction and demolition). The established physical boundary of the community-wide emissions inventory, Oakley established a physical boundary of within the city limits of Oakley. For both emissions inventories, Oakley established a temporal boundary of the year 2023, covering the period of January 1, 2023, all the way through December 31, 2023. Per internationally recognized standards, emissions inventories are categorized into scopes that identify emissions based on the reporting entity's ownership of, or influence over, the activities generating those emissions. Per the GHG Protocol, emissions are typically categorized into different scopes: 31

- **Scope 1 emissions** Direct GHG emissions that occur from sources controlled or owned by an organization (e.g., emissions associated with fuel combustion in boilers, furnaces, vehicles).
- Scope 2 emissions Indirect GHG emissions associated with the purchase of electricity, steam, heat, or cooling. 32
- **Scope 3 emissions** Indirect emissions from activities or assets not owned or controlled by the reporting organization, but that the organization in directly affects in its value chain. <sup>33</sup>

<sup>&</sup>lt;sup>31</sup> Greenhouse Gas Protocol. "Standards." n.d. < https://ghgprotocol.org/standards>.

<sup>&</sup>lt;sup>32</sup> Although scope 2 emissions physically occur at the facility where they are generated, they are accounted for in an organization's GHG inventory because they are a result of the organization's energy use.

<sup>&</sup>lt;sup>33</sup> Scope 3 emissions may include some or all sources that are not otherwise included in a reporting entity's Scope 1 or Scope 2 emissions. Furthermore, some Scope 3 emissions may include Scope 1 or Scope 2 emissions that belong to another reporting entity.

#### B-1.2 Inventory Data Sources and Details

Data sources for emissions calculations are listed in Tables B-1, B-2 and B-3 and are categorized by scope.

**Table B-1.** Municipal Scope 1 Emissions Sources and Details

Scope 1 Emissions	Services	Fuel/Resource Types	Data Provider(s)
Stationary combustion	Energy	Natural Gas	Pacific Gas & Electric
Mobile combustion	Diesel Vehicles	Diesel	City of Oakley
	Gasoline Vehicles	Unleaded Gasoline	City of Oakley CARB EMFAC <sup>34</sup>
	Electric Vehicles	Electricity	City of Oakley CARB EMFAC

Table B-2. Community-wide Scope 1 Emissions Sources and Details

Scope 1 Emissions	Services	Fuel/Resource Types	Data Provider(s)
Stationary combustion Energy		Natural Gas	Pacific Gas & Electric
	Diesel Vehicles	Diesel	CARB EMFAC
Mobile combustion	Gasoline Vehicles	Unleaded Gasoline	CARB EMFAC
	Natural Gas Vehicles	Natural Gas	CARB EMFAC
	Electric Vehicles	Electricity	CARB EMFAC
	Hybrid Plug-In Vehicles	Electricity and Unleaded Gas	CARB EMFAC

With respect to Scope 2 emissions, purchased electricity data prepared by Pacific Gas & Electric (PGE) was used exclusively. Electricity consumption covers multiple end uses.

**Table B-3.** Municipal Scope 2 Emissions Sources and Details

Scope 2 Emissions	Services	Fuel/Resource Types	End Use(s)	Data Provider(s)
Purchased electricity	All	Electricity	Facilities, Traffic Signals	Pacific Gas & Electric, MCE Clean Energy

Table B-4. Community-wide Scope 2 Emissions Sources and Details

Scope 2 Emissions	Services	Fuel/Resource Types	End Use(s)	Data Provider(s)
Purchased electricity	All	Electricity	Residential and Commercial Electricity	Pacific Gas & Electric, MCE Clean Energy

<sup>&</sup>lt;sup>34</sup> Refers to the California Air Resources Board's *EMission FACtors Model*.

While data was collected exclusively from PG&E, Oakley is within MCE Clean Energy's (the region's community choice energy provider) service area. Meters were assumed and confirmed to be enrolled under the CCA.

#### B-1.2 Emissions Calculation Resources and Assumptions

#### Emissions Factors

Emissions factors were assigned and used as follows:

- Emission factors from The Climate Registry (TCR) were applied for the stationary energy and mobile combustion emission calculations.
- Supplier-specific emission factors from Pacific Gas & Electric and MCE Clean Energy were applied in the market-based electricity emission calculation.

#### Data Aggregation and Quality Assurance

To ensure data quality and accuracy, a quality assurance and quality control process was used to ensure the integrity of the data through all collection, cleaning, aggregation, and calculation phases before being finalized. Data quality assurance criteria included but were not limited to unit measure checks, data boundary checks, reporting data timeframe checks, validity of data sources, etc.

#### **Estimations**

Estimations were not made in Oakley's municipal greenhouse gas emission inventory. Listed below are key assumptions made in the calculation of Oakley's baseline community-wide greenhouse gas emissions:

• Transportation (vehicle) emissions – On-road vehicle emissions were derived from CARB's EMFAC tool. The tool is a model developed and used by the CARB to assess emissions from on-road vehicles including cars, trucks, and buses in California. In the case of community-wide transportation emissions, community-wide mileages and fuel consumption were collected at the county-wide level for Contra Costa county, as these figures are not available at the city level. To obtain useful community-wide figures for Oakley, a proportion of these mileages and fuel consumption figures was taken based on the share of Oakley's population relative to the entire population of Contra Costa county.

#### **B-2** Emissions Forecasting

The City of Oakley developed Excel-based emission scenario models to forecast emissions for municipal and community-wide emissions through 2050.

#### **B-2.1** Forecasting Scenarios

Both business-as-usual (BAU) and business-as-planned (BAP) scenarios were modeled. Relevant assumptions were made and documented for each scenario based on the best available sources and information:

- Business as Usual (BAU) The BAU scenario assumes the normal execution of currently existing
  operations within the City, with no planned or newly developed activities. In this scenario, GHG
  emissions are only impacted by external factors outside Oakley's control namely, population
  growth.
- Business as Planned (BAP) This scenario incorporates currently planned activities, including compliance with state regulations, to mitigate emissions. However, no new strategies or measures are incorporated. In this scenario, on top of population growth, the impact federal and state regulations (e.g., the California Low Carbon Fuel Standard, the California Renewable Portfolio Standard, etc.) are incorporated into the emissions trajectory.

#### B-2.2 Source Data

Emissions forecasts derived their source data from those provided for the baseline emissions inventories.

Additional information about the impact of regulatory drivers were collected online from pertinent government agency websites.

#### B-2.3 Forecast Assumptions

The key assumptions to develop the BAU and BAP emissions forecasts are listed below:

- 1. The carbon intensity of transportation fuels will be reduced to 20% below 2010 levels by 2030 due to the California Low Carbon Fuel Standard. This data was used to calculate the impact emissions from fuel through 2030, with the assumption that impact will remain level after 2030.
- 2. It is assumed that the California grid emission intensity will decrease linearly year by year from 2022 to 2045 and 100% clean electricity in 2045 to align with the California Climate Commitment.
- 3. It is assumed that passenger cars, trucks, and SUVs in Oakley will decrease due to the Advanced Clean Cars II regulation requiring that all new passenger cars, trucks, and SUVs sold in California will be zero-emission vehicles by 2035. The City of Oakley calculated the Zero Emissions Vehicle penetration forecast to calculate the rate of transition to zero emissions vehicles in the city.
- 4. It is assumed the City of Oakley population will grow to 68,000 people by 2042 (based on the City's General Plan). This projection was used to calculate the year-over-year population growth through 2050.

# APPENDIX C: CLIMATE VULNERABILITY AND RISK ASSESSMENT

Appendix begins on the next page as a distinct attachment.

#### City of Oakley – Climate Vulnerability Assessment

Climate change is a global phenomenon that may affect each community differently. In recognition of this, many State legislations have been passed to reduce overall greenhouse gas emissions and "futureproof" local infrastructure against increasing climate-exacerbated risks.¹ Thus, a city or county's climate action plan is to be established, reviewed and/or updated as necessary to address updated GHG emissions forecasts and applicable climate adaptation and resiliency strategies, including a set of goals, policies, and objectives based on a vulnerability assessment. A Climate Vulnerability Assessment (CVA) serves as the foundation for the Climate Action Plan, as described in the California Air Resources Board 2022 Scoping Plan.²

Based on guidance from the California Governor's Office of Emergency Services (Cal OES) California Adaptation Planning Guide (APG)<sup>3</sup> and the Southern California Climate Adaptation Planning Guide<sup>4</sup> the following five steps must be completed to assess the vulnerability of the City of Oakley (City) to the effects of climate change:

- 1. **Exposure** Identify the climate change effects a community will experience.
- 2. **Sensitivity** Identify the key community structures, functions, and populations that are potentially susceptible to each climate change exposure.
- 3. **Potential Impacts** Analyze how climate change exposure will affect the community structures, functions, and populations (impacts). Adjust the impact assessment to account for uncertainty, timing, and adaptive capacity.
- 4. **Adaptive Capacity** Evaluate the community's current ability to address the projected impacts.
- 5. Vulnerability Scoring Determine and rank potential impacts and adaptive capacity.

Each of these steps is described in detail below. Data for this CVA was collected from sources including the following:

- CalAdapt Climate Tool
- California's Fourth Climate Change Assessment, 2018<sup>5</sup>
- California's Fourth Climate Change Assessment, San Francisco Bay Area Regional Report,
   2018
- Contra Costa County Local Hazard Mitigation Plan, 2024
- Association of Bay Area Governments, Regional Resilience Toolkit, 2019

Assembly Bill 32, Senate Bill 32, Assembly Bill 1279. California Climate Policy Dashboard, Berkeley Law. Available at <a href="https://www.law.berkeley.edu/research/clee/research/climate/climate-policy-dashboard/">https://www.law.berkeley.edu/research/clee/research/climate/climate-policy-dashboard/</a>. Accessed October 2024.

<sup>&</sup>lt;sup>2</sup> California Air Resources Board (CARB), 2022 Scoping Plan for Achieving Carbon Neutrality. Available at https://ww2.arb.ca.gov/our-work/programs/ab-32-climate-change-scoping-plan/2022-scoping-plan-documents.

<sup>&</sup>lt;sup>3</sup> Governor's Office of Emergency Services, California Adaptation Planning Guide, June 2020 Final Draft. Available at <a href="https://www.caloes.ca.gov/wp-content/uploads/Hazard-Mitigation/Documents/CA-Adaptation-Planning-Guide-FINAL-June-2020-Accessible.pdf">https://www.caloes.ca.gov/wp-content/uploads/Hazard-Mitigation/Documents/CA-Adaptation-Planning-Guide-FINAL-June-2020-Accessible.pdf</a>. Accessed July 29, 2024.

<sup>&</sup>lt;sup>4</sup> Association of Bay Area Governments (ABAG), Regional Resilience Toolkit, 2019. Available at <a href="https://abag.ca.gov/sites/default/files/regional resilience toolkit 0.pdf">https://abag.ca.gov/sites/default/files/regional resilience toolkit 0.pdf</a>. Accessed July 29, 2024.

<sup>&</sup>lt;sup>5</sup> OPR, State of California Energy Commission, and California Natural Resources Agency, California's Fourth Climate Change Assessment, 2018. Available at <a href="https://www.climateassessment.ca.gov/">https://www.climateassessment.ca.gov/</a>. Accessed July 29, 2024.

- California Adaptation Planning Guide
- California Healthy Places Index

#### 1. Potential Climate-Related Effects

Climate change affects communities all around the world regardless of their contribution to this phenomenon. Jurisdictions across California are expected to experience different climate change effects to varying degrees based on geography, density of urban development, and environmental factors. **Table 1: Climate-Related Effects and Hazards Potentially Applicable to Oakley** below, based on guidance from the California Adaptation Planning guide, identifies the direct effects of climate change and the associated secondary effects potentially applicable to Oakley. Each of the seven is discussed in detail below. The goal of the exposure step is to characterize the community's exposure to current and projected climate hazards.

Table 1: Climate-Related Effects and Hazards Potentially Applicable to Oakley

	and the state of t
Primary Hazard	Secondary Hazard
Air quality	Public health effects
Changed temperature and/or precipitation patterns	Drought, wildfire
Flooding	Flooding, erosion, mud or landslides; Dam and levee failure
Sea Level Rise	Storm surge, flooding, groundwater intrusion
Severe storms and extreme weather	Intense rainstorms, severe wind, flooding, lightning, hail
Temperature changes – warming	Extreme heat/heat waves
Wildfire	Erosion, landslide

The projection of the likelihood, timing, and severity of these primary and secondary hazards to impact the City is based on the trajectory of greenhouse gas (GHG) concentrations in the Earth's atmosphere, commonly referred to as Representative Concentration Pathways (RCPs). RCPs represent a combination of the historical data and estimates of concentrations through 2100, based on a set of formulated human behaviors. The pathways describe different climate futures, all of which are considered possible depending on the volume of GHGs emitted in the years to come. The Intergovernmental Panel on Climate Change (IPCC) adopted a number of RCPs in its latest assessment in its recent guidance and chose to focus on three RCPs representing a reasonable range of outcomes, as follows:

- A low emissions scenario (RCP2.6) this represents an aggressive emissions reduction scenario that assumes global greenhouse gas emissions will be significantly curtailed. RCP 2.6 most closely corresponds to the aspirational goals of the United Nations Framework Convention on Climate Change 2015 Paris Agreement.
- 2. A medium emissions scenario (RCP4.5) this represents a mitigation scenario where global greenhouse gas emissions peak by 2040 and then decrease for the rest of the century.
- 3. A high emissions scenario (RCP8.5) this represents a "business-as-usual" scenario where global greenhouse gas emissions continue to rise throughout the 21st century.

Because the RCP2.6 scenario depends on substantive changes in the current set of world-wide policies, regulations, and behaviors, it is considered unlikely, and therefore not especially helpful in a climate

vulnerability assessment. This CVA will rely primarily on RCP8.5, the high emissions scenario, in alignment with OPR's recommendation that agencies use RCP8.5 when considering impacts through 2050 because there are minimal differences between the low and high emissions scenarios through the first half of the century. When available and illustrative, the RCP4.5 scenario may be shown for additional context.

#### 1.1. Air Quality

The City is located in Contra Costa County, which lies in the central portion of the San Francisco Bay Air Basin (Basin). As such, the Bay Area Air Quality Management District is tasked with setting regulations to ensure that the Basin obtain and maintain the National Ambient Air Quality Standards (NAAQS) and continue progress towards meeting more stringent California Ambient Air Quality Standards (CAAQS).

According to CalEnvironScreen 4.0, as shown in **Figure 1: CalEnviroScreen 4.0 - Ozone**, census tracts in Oakley are in ozone percentiles from 35 to 40 percentile, which means the summed concentration of ozone for census tracts in Oakley is higher than 35 to 40 percent of census tracts in the State. Oakley's ozone concentrations are relatively high in comparison to the entire County, but low in comparison to the State.

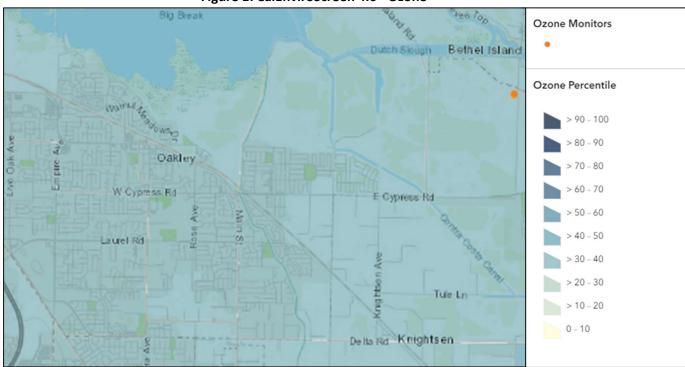


Figure 1: CalEnviroScreen 4.0 - Ozone

Source: CalEnviroScreen 4.0, Ozone Pollution Burden.

According to CalEnvironScreen 4.0, as shown in **Figure 2**: **CalEnviroScreen 4.0** – **PM2.5**, census tracts in Oakley are in PM2.5 percentiles from 27 to 30 percentile, which means the summed concentration of PM2.5 for census tracts in Oakley is higher than 27 to 30 percent of census tracts in the State. Oakley's PM2.5 concentrations are average in comparison to the entire County, and low in comparison to the State.



Figure 2: CalEnviroScreen 4.0 - PM2.5

Changes in climate can result in impacts to local air quality. Ozone is not emitted directly, rather it is formed when emissions of oxides of nitrogen (primarily from the combustion of fossil fuels) and reactive organic gases (from evaporative sources such as gasoline, solvents, paints, and other consumer and industrial products and processes) react in the presence of sunlight. Thus, it is widely recognized that atmospheric warming associated with climate change has the potential to increase ground-level ozone formation. Locally, this threatens the ability of the Basin to obtain the applicable ozone NAAQS and CAAQS under the business-as-usual (BAU) (RCP8.5) scenario.

PM is caused both by natural and anthropomorphic activities; it is emitted directly from sources (such as earth moving, smokestacks, and fires) and also forms secondarily in the atmosphere when gases and aerosols combine (from sources such as power plants, industries and automobiles). According to the United States Environmental Protection Agency (USEPA), the impact of climate change on PM is less certain, but research is underway to address these uncertainties. Climate change, such as decreasing precipitation and increasing wildfires, can result in higher emission of PM into the atmosphere.

Contra Costa County is located within the Bay Area Air Quality Management District (BAAQMD). BAAQMD consists of over 30 stations that collect local air quality data, including measurements of significant air pollutants. According to the California Air Resources Board, the closest air monitoring stations to Oakley are Bethel Island (ARB #7442), Concord (ARB #07448), and San Ramon (ARB #60341). These locations were purposefully selected because these are areas with higher levels of sources and activities that emit PM.

#### 1.2. Precipitation Changes

Oakley, like most of the Contra Costa region, is characterized by wet winters. The average precipitation observed in Oakley between 1961 and 1990 was 14.0 inches with a high of 28.7 inches and a low of 4.5 inches.<sup>6</sup>

As presented in **Figure 3: Annual Average Precipitation**, local annual levels of precipitation are not anticipated to change drastically for the City. It is projected that the average precipitation in Oakley from 2035 to 2064 will increase to 15.0 inches and would increase slightly to 16.4 inches in the 2070 to 2099 timeframe under the RCP8.5 scenario. Changes in annual precipitation of these minimal ranges alone are not expected to pose much risk to the built or human environment. The role of changing precipitation amounts and patterns in expanding the extent or geographic distribution of vector-borne disease is not clearly understood at this time.

Oakley, California Projected changes in Annual Average Precipitation under a High Emissions (RCP 8.5) Scenario. MODELED HISTORICAL **FUTURE PROJECTIONS FUTURE PROJECTIONS** Baseline (1961-1990) Mid-Century (2035-2064) End-Century (2070-2099) Change Period 🛱 Change Period 🛱 Change Period 🛱 30 YEAR AVG 30 YEAR RANGE 30 YEAR AVG 30 YEAR RANGE 30 YEAR AVG 30 YEAR RANGE 4.5-28.7 inch 4.6-31.5 inch 14.0 inch 15.0 inch 5.6-34.6 inch 16.4 inch Learn More (i) Learn More ① Learn More (i)

**Figure 3: Annual Average Precipitation** 

Source: Cal-Adapt, Annual Average Precipitation.

However, much of the subregion's potable water supply is provided by several sources, including both surface water from the Sacramento-San Joaquin Delta (Delta) and groundwater from existing wells located in the East Contra Costa Subbasin. The Diablo Water District (District) serves the City with its two sources of water derived from local groundwater and Delta water. In addition, the District recognizes the City resides in a mediterranean climate that is prone to cycles of prolonged droughts. Thus, the District provides free ways for water conservation, water saving tips, gardening tips, lawn to garden rebates, and additional rebates. Based on Cal-Adapt, a climate change induced decline in the northern Sierra Nevada of 32 percent in snow water equivalence by 2050 and 77 percent by 2099 is anticipated, and declines in the southern Sierra Nevada of up to 10 percent and up to 40 percent by 2050 and 2099, respectively. Projected heat-trapping emissions could continue unabated, more precipitation will fall as rain instead of snow, and the snow that does fall will melt earlier; thus, reducing the Sierra Nevada Spring snowpack by as much as 70 to 90 percent. In the southern Sierra Nevada Spring snowpack by as much as 70 to 90 percent.

<sup>&</sup>lt;sup>6</sup> Cal-Adapt, Annual Averages. Available at https://cal-adapt.org/tools/annual-averages/. Accessed August 2024.

<sup>&</sup>lt;sup>7</sup> Cal-Adapt, Annual Averages. Available at <a href="https://cal-adapt.org/tools/annual-averages/">https://cal-adapt.org/tools/annual-averages/</a>. Accessed August 2024.

<sup>&</sup>lt;sup>8</sup> Vicki Kramer, PhD, Impact of Climate Change on Vector-Borne Diseases. Available at <a href="https://oehha.ca.gov/media/downloads/climate-change/document-presentation/13humankramer.pdf">https://oehha.ca.gov/media/downloads/climate-change/document-presentation/13humankramer.pdf</a>. Accessed August 2024.

<sup>&</sup>lt;sup>9</sup> Diablo Water District, Your Water. Available at <a href="https://diablowater.org/your-water/">https://diablowater.org/your-water/</a>. Accessed August 2024.

<sup>&</sup>lt;sup>10</sup> Cal-Adapt, Snowpack. Available at: https://cal-adapt.org/tools/snowpack/. Accessed August 2024.

Precipitation levels are not expected to change significantly for the Colorado River Basin. However, as temperatures rise and precipitation levels decrease on a larger geographic scale, the snowpack volume is expected to drop, potentially resulting in a 9 percent decline in the total flow of the Colorado River. According to *California's Fourth Climate Change Assessment*, the changes in Sierra Nevada snowpack will "undeniably pressure California to preemptively invest in climate adaptation measures, such as alternative water storage, water-use efficiency, and updated reservoir storage operations." <sup>11</sup>

Droughts are common in California, and it is widely recognized that dry conditions may be experienced more regularly in the future given the impact of climate change on California's snowpack. Currently, the Oakley and Bay Area region are classified within the -2 to 4 range of the Palmer Drought Severity Index (PDSI), where a value of -6 represents "extreme drought." Drought can lead to reductions in the quality and quantity of water, degradation of air quality, increase in agricultural vectors and disease, and decreases in crop yield. According to the California Department of Public Health, health consequences of drought may impact the following vulnerable/sensitive populations most: "the elderly, children, individuals of low socioeconomic status, rural communities, populations living in nursing homes, hospitalized patients, those who rely on electrical equipment to survive, farmers, and agricultural workers." According to the California Department of Public Health, health consequences of drought may impact the following vulnerable/sensitive populations most: "the elderly, children, individuals of low socioeconomic status, rural communities, populations living in nursing homes, hospitalized patients, those who rely on electrical equipment to survive, farmers, and agricultural workers."

#### 1.3. Flooding

The accumulation of excess water due to increase precipitation or natural water flows has the potential to result in the flooding of nearby floodplains or low-lying valleys. Floodplains, or areas adjacent to water bodies, are especially susceptible to flooding hazards. The severity of flooding within a floodplain is directly related to the capacity and volume of the neighboring body of water or waterway. Flooding within larger, flatter floodplains occurs more predictably for longer durations.

Although CalAdapt does not provide emissions-based flooding projections, the 2024 County Local Hazard Mitigation Plan (LHMP) and San Francisco Bay Conservation and Development Commission (BCDC) Adapting to Rising Tides (ART) Web Map shows the existing flooding risks present in the City. <sup>15</sup> According to the County's LHMP and BCDC ART map, areas within the City that are vulnerable to flooding include Big Break Regional Shoreline/ Delta Discovery Experience shoreline area, port facilities, and areas to the north

California's Fourth Climate Change Assessment – San Francisco Bay Area Region Report. Available at <a href="https://www.energy.ca.gov/sites/default/files/2019-11/Reg\_Report-SUM-CCCA4-2018-005">https://www.energy.ca.gov/sites/default/files/2019-11/Reg\_Report-SUM-CCCA4-2018-005</a> SanFranciscoBayArea ADA.pdf. Accessed August 2024.

<sup>&</sup>lt;sup>12</sup> WestWideDroughtTracker, California – PDSI. Available at <a href="https://wrcc.dri.edu/wwdt/index.php?region=ca">https://wrcc.dri.edu/wwdt/index.php?region=ca</a>. Accessed August 2024.

<sup>&</sup>lt;sup>13</sup> California Department of Public Health (CDPH), California Building Resilience Against Climate Effects (CalBRACE) Project. Available at

https://www.cdph.ca.gov/Programs/OHE/CDPH%20Document%20Library/CHVIs/Drought 802 Narrative 11-8-2016.pdf. Accessed August 2024.

<sup>&</sup>lt;sup>14</sup> CDPH, CalBRACE Project, page 1.

<sup>&</sup>lt;sup>15</sup> Contra Costa County Local Hazard Mitigation Plan, 2024. Available at <a href="https://www.contracosta.ca.gov/6415/Local-Hazard-Mitigation-Plan">https://www.contracosta.ca.gov/6415/Local-Hazard-Mitigation-Plan</a> Accessed March 2025.

<sup>&</sup>lt;sup>16</sup> BCDC ART. East Contra Costa County Web Map. Available at https://eccexplorer.adaptingtorisingtides.org/explorer. The interactive map displays flooding extent from 100-year storm events and may vary due to "the variable influence of large rivers in the Delta" such as peak riverine stream flows and soil deposits.

surrounding Marsh Creek Watershed. There are no major roads that pass through the 100-year floodplain, however the roads provide access to Port facilities that connect to the broader Bay Area. Additionally, some roads are built above the flood level, and others function as levees to prevent flooding.<sup>17</sup> Since precipitation is expected to remain fairly consistent, increased flood hazards due to annual average precipitation is unlikely. However, the increase in the frequency and intensity of severe rainstorms in the future (see Section 1.5.1 below) may result in increased risk of localized flooding events.

#### 1.4. Sea Level Rise

Sea level rise is described in the CA Adaptation Planning Guide as "...the long-term rise of mean high tide levels along the coast" that occurs over the course of decades. The phenomenon occurs from the rapid and permanent melt of glaciers and ice sheets that swell ocean systems. Secondary impacts of sea level rise include coastal flooding from storm surges, flooding from groundwater intrusion, and shoreline erosion. Salinity and pH levels can also increase as previously dry areas of the delta are under water, impacting water quality and habitat quality. Sea level rise can also result in inundation of toxic waste facilities or brownfields, further exacerbating water pollution and human health conditions. According to the San Francisco Bay Conservation and Development Commission, delta regions in eastern Contra Costa County are expected to experience 7- to 13-inches of sea level rise by mid-century<sup>18</sup> <sup>19</sup>. SLR projections are based on global greenhouse gas emissions modeled from current "business-as-usual" scenarios. Shorelines provide a natural buffer from storms and flooding that protect inland infrastructure; however, severe storm events combined with sea level rise can exacerbate flooding due to the Delta's large freshwater inflows. Sea level rise can also result in increased algal blooms and saltwater intrusion that alters the biological composition of wetland areas. Additional impacts to urban environments include overtopped levees, saltwater intrusion, decreased recreational opportunities, destruction to physical buildings and roads, and decreased water availability that reduces productivity of agricultural farmlands. The Alameda tide gauge provides locally relevant predictions for the Delta region in San Franscisco Bay, including the City. Additionally, increased frequency of severe storm events, further described in **Section** 1.5 Severe Storms and Extreme Weather below, is anticipated to accelerate flooding and erosion of land mass that impacts existing infrastructure and puts future development along shorelines in question.

The City is situated along the Sacramento-San Joaquin River delta which experiences tidal influence from the larger San Francisco Bay and Suisun Bay west of the City. The City boundaries to the north encompass the shoreline area and includes City assets such as the Big Break Regional Shoreline. The East Contra Costa ART Sea level rise projections map is the best available science for mapping sea level rise inundation for inland delta communities in the Bay area. According to the East Contra Costa ART Project<sup>20</sup>, the shoreline area is anticipated to experience SLR inundation at a depth of 2- to 45-inches by mid-century, as shown in **Figure 4: Projected Sea Level Rise – 12" Scenario**. **Figure 5: Projected Sea level Rise – 100-year storm and 12" Scenario** is an extreme scenario and shows that infrastructure located within approximately 200

<sup>&</sup>lt;sup>17</sup> Contra Costa County Local Hazard Mitigation Plan, 2024.

<sup>&</sup>lt;sup>18</sup> Ocean Protection Council (OPCC), "State of California Sea-Level Rise Guidance 2018 Update". Available at <a href="https://www.opc.ca.gov/webmaster/ftp/pdf/agenda">https://www.opc.ca.gov/webmaster/ftp/pdf/agenda</a> items/20180314/Item3 Exhibit-A OPC SLR Guidance-</a>rd3.pdf. Accessed August 2024.

<sup>&</sup>lt;sup>19</sup> The webtool, ART East Contra Costa Flood Explorer, utilizes 2018 SLR models. A 2024 guidance document with updated SLR models was adopted in June 2024 and replaces the previous 2018 guidance document.

<sup>&</sup>lt;sup>20</sup> East Contra Costa Adapting to Rising Tides (ART) Map. Accessed on September 2024 at <a href="https://eccexplorer.adaptingtorisingtides.org/about">https://eccexplorer.adaptingtorisingtides.org/about</a>.

to 2,000 feet (or below a 10-foot elevation) of the shoreline is anticipated to be overtopped and would inundate City assets. Assets affected includes roads such as Lauritzen Lane and Tule Lane, Delta Discovery Experience, residences surrounding Delaney Park, Willow Park marina, and other development surrounding the canal. An existing levee along East Cypress Road & Bethel Island Road protects the residential development of Summer Lake but under extreme conditions is anticipated to inundate the surrounding area, including residential development along Sandmound Boulevard and E. Cypress Road, and County Fire Station No. 95. Some assets, such as roads and parks, are more adaptive to SLR inundation.

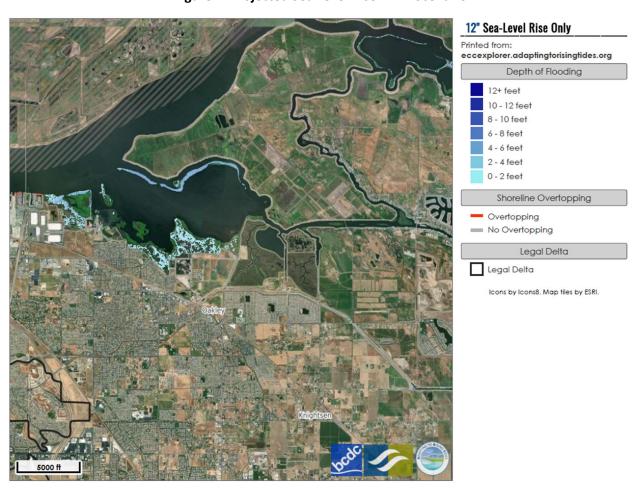


Figure 4: Projected Sea Level Rise - 12" Scenario

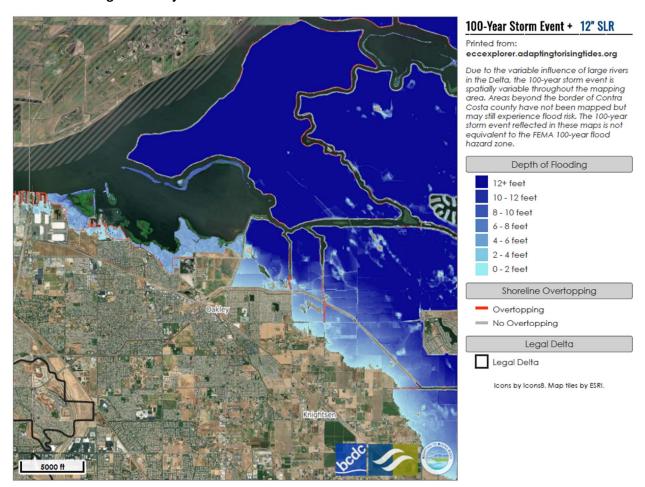


Figure 5: Projected Sea Level Rise -12" Scenario with 100 Year Storm Event

#### 1.5. Severe Storms and Extreme Weather

California's Fourth Climate Change Assessment explains that, despite model predictions of only small changes in average precipitation in the Bay Area region, overall, precipitation in the Bay Area will continue to exhibit high year-to-year variability with very wet and very dry years. Please refer to the discussion of precipitation changes and droughts in Section 1.2 above. This section also addresses land and mudslides that may result from severe rain events.

#### 1.5.1. Severe Rainstorms

In the Bay Area, extreme precipitation often arrives via so called "atmospheric rivers," which the National Oceanic and Atmospheric Administration (NOAA) defines as "a flowing column of condensed water vapor in the atmosphere responsible for producing significant levels of rain and snow, especially in the Western United States." Further, the NOAA recognizes that atmospheric rivers "that contain the largest amounts of water vapor and the strongest winds can create extreme rainfall and floods." Data presented in California's Fourth Climate Change Assessment suggests that little change is projected for summer and

<sup>&</sup>lt;sup>21</sup> National Oceanic and Atmospheric Administration (NOAA), What are atmospheric rivers?. Available at https://www.noaa.gov/stories/what-are-atmospheric-rivers. Accessed August 2024.

<sup>&</sup>lt;sup>22</sup> Ibid.

fall precipitation, but larger changes may occur in winter and spring. In general, precipitation in northern regions of California is projected to increase. The data also suggests that the frequency of atmospheric river events may increase in the future. Please refer to Section 1.3 for discussion of the change in potential flooding impacts that could affect the City.

#### 1.5.2. Extreme Weather

In addition to extreme rain events, other severe weather phenomena, including strong winds, hail, and lightning, may occur with increased frequency. Severe weather can pose direct hazards resulting in injury or death, damage to buildings, structures, infrastructure, and trees, fires, and diminished or blocked transportation access. Extreme weather can lead to secondary effects, such as wildfires, and can lead to increased fire spread and intensity. According to the County's LHMP, "incapacity and loss of roads [and utilities] are the primary...failures resulting from severe weather". <sup>23</sup>

#### 1.5.3. Diablo Winds

During the spring and fall, hot and dry winds, known as the Diablo winds, from the northeast occur in the Bay Area. Diablo winds occur below canyons in the East Bay Hills (Diablo range) and in extreme cases can exceed 60 miles per hour (mph). The winds blow into the inner Bay Area from the direction of Mount Diablo and are created by a combination of strong inland high pressure at the surface, strongly sinking air aloft, and lower pressure off the California coast. Oakley and Contra Costa County is subject to high winds from thunderstorms and other severe weather events. Contra Costa County is located in the Federal Emergency Management Agency (FEMA)'s Wind Zone I, where wind speeds can reach up to 130 mph. *California's Fourth Climate Change Assessment* recognizes the uncertainty in predicted changes to the patterns of winds due to global climate change. Hot and dry conditions, combined with offshore winds (Diablo winds) in autumn create high risk conditions that spread fires.

The Bay Area electrical grid is vulnerable to power outages during wind and wildfire events. Under scenarios of climate change, extreme storm events with stronger winds may become more frequent. The electrical grid may face more frequent and severe threats in the coming decades.<sup>24</sup>

#### 1.5.4. Landslides

Weather-induced landslides occur when a hillside becomes unstable, caused by severe or persistent rain events, causing soil and rocks to slide downslope. In some cases, the hillsides can become so saturated that slope failures result in a mudslide, a mixture of soil and water moving downslope. Unstable hillsides, such as those denuded of vegetation by wildfires or drought, are at greater risk of land- and mudslides. The climate change-induced increase in rainfall, especially severe rain events, may result in an increase in landslides and mudslides.

Landslides caused by seismic hazards, liquefaction, ground shaking, and subsidence are of high concern in the City. Although seismic hazards are not climate related, geologic hazards can constrain evacuation routes and limit the City's ability to respond to emergencies. As discussed in the LHMP, "climate change may impact storm patterns, increasing the probability of more frequent, intense storms with varying duration. Increase in global temperature is likely to affect the snowpack and its ability to hold and store water. Warming temperatures also could increase the occurrence and duration of droughts, which would increase the probability of wildfire, reducing the vegetation that helps to support steep slopes. All of these

<sup>&</sup>lt;sup>23</sup> Contra Costa Draft Hazard Mitigation Plan, page 11-12, 11-14.

<sup>&</sup>lt;sup>24</sup> California's Fourth Climate Change Assessment, San Francisco Bay Area Region, page 46.

factors would increase the probability for landslide occurrences."<sup>25</sup> The LHMP ranks landslides with a high hazard risk ranking for Contra Costa County; however, most of Oakley is rated as low landslide susceptibility with a few pockets of high landslide susceptibility, as shown in **Figure 6: Landslide Zones.** The majority of landslide zones are located in areas of higher topography, such as Marsh Creek State Park. Given the relatively level slopes throughout the majority of the City, the landslide potential is low. The landslide potential increases in hilly terrain towards the west and south. The LHMP details the estimated value of structures and assets within the City, valuating at \$422,038,535.

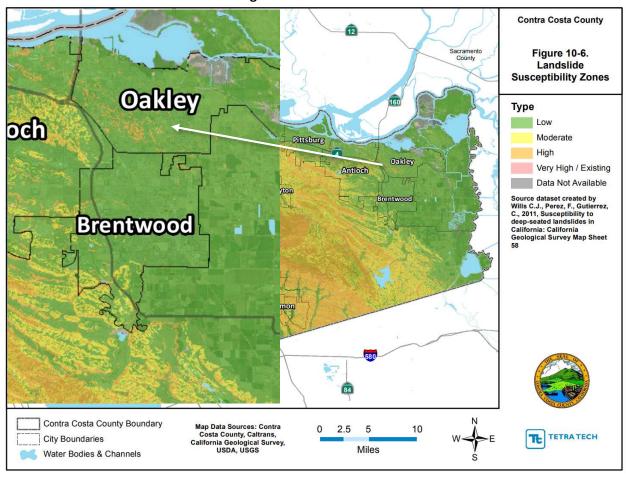


Figure 6: Landslide Zones

Source: Contra Costa County, Local Hazard Mitigation Plan.

#### 1.6. Temperature Changes

A rise in temperature has been observed in many California communities, including those in Contra Costa County. The County LHMP does not provide temperature change information specific to the City; however, CalAdapt provides multiple temperature change variables to consider. Overall, trends in Bay Area annual average, maximum, and minimum temperatures is expected to increase by 4.6°F from 1961 to 1990 under RCP8.5 high emissions scenarios by mid-century. Average maximum temperatures and

<sup>&</sup>lt;sup>25</sup> Contra Costa Local Hazard Mitigation Plan, page 14-12.

extreme heat days are expected to continue to rise. Extreme heat days are anticipated to increase by 16 days.

In the projections based on the RCP8.5 scenario, Oakley could experience an average maximum temperature of 77.9°F during the years 2035 to 2064. Through 2099, the projections for Oakley include an average maximum temperature of 81.3°F. **Figure 7: Annual Average Maximum Temperature** provides the estimated annual average of hottest daily temperatures for Oakley in an RCP8.5 scenario. According to the California Office of Environmental Health Hazard Assessment (OEHHA) and California Department of Public Health (CDPH), disruptions in weather patterns due to global climate change, such as warmer spring temperatures and overall increases in temperatures will "likely alter the distribution and occurrence of West Nile virus, Lyme disease, hantavirus, and other insect or animal transmitted diseases in California."<sup>26</sup>

**Figure 7: Annual Average Maximum Temperature** 

<b>Observed (1961-1990)</b> 30yr A	verage: 73.0 °F		
		30yr Average	30yr Range
Baseline (1961-1990)			
MODELED HISTORICAL	-	73.1 °F	72.9 - 73.4 °F
Mid-Century (2035-2064)			
MEDIUM EMISSIONS (RCP 4.5)	+3.7 °F	76.8 °F	75.3 - 78.0 °F
HIGH EMISSIONS (RCP 8.5)	+4.6 °F	77.7 °F	75.9 - 79.5 °F
End-Century (2070-2099)			
MEDIUM EMISSIONS (RCP 4.5)	+4.8 °F	77.9 °F	76.0 - 80.2 °F
HIGH EMISSIONS (RCP 8.5)	+8.0 °F	81.1 °F	78.2 - 84.8 °F

Source: Cal-Adapt, Annual Average Maximum Temperature.

#### 1.6.1. Extreme Heat Days

According to *California's Fourth Climate Change Assessment*, "while all parts of the Bay Area are projected to get warmer, inland areas will heat up more than coastal areas." Extreme heat days are defined as a day in a year when the daily maximum temperature on any day in April through October exceeds the 98<sup>th</sup> historical percentile of maximum temperatures between 1961 and 1990.<sup>27</sup> According to CalAdapt, the extreme heat temperature threshold is 101.3°F for Oakley. The average number of extreme heat days observed for the City in the years 1961 to 1990 was four days per year. In the RCP8.5 high emissions scenario, Oakley is projected to experience 11 to 31 additional extreme heat days per year between the years 2035 and 2064. **Figure 8: Number of Extreme Heat Days by Year** provides an estimated number of extreme heat days for the City in an RCP8.5 scenario. This is a 16-day increase from the annual extreme heat days observed during the years 1961 and 1990. Models predict the number of extreme heat days in Oakley may rise to 33 days per year in the 2070 to 2099 timeframe.

An increase in extreme heat days can correlate with an overall increase in temperature. Further, the heightened frequency of extreme heat days can pose a risk to sensitive communities such as persons with

<sup>&</sup>lt;sup>26</sup> Vicki Kramer, PhD, Impact of Climate Change on Vector-Borne Diseases.

<sup>&</sup>lt;sup>27</sup> Cal-Adapt, Extreme Heat. Available at <a href="https://cal-adapt.org/tools/extreme-heat/">https://cal-adapt.org/tools/extreme-heat/</a>. Accessed January 31, 2024.

homelessness, senior citizens, and persons with disabilities. This would create a greater reliance on high energy demand electrical equipment, such as air conditioning. The increased use of equipment may impact the demands in the State's power grid and could increase the risk of blackout events. Heat waves pose increased health risks due to urban heat islands and lack of local experience and cooling infrastructure (air conditioning) in bayside cities. These risks are compounded for low-income communities.<sup>28</sup>

Figure 8: Number of Extreme Heat Days by Year

Observed (1961-1990)	30yr Average: 4 days		
		30yr Average	30yr Range
Baseline (1961-1990)			
MODELED HISTORICAL	-	4 days	3 - 5 days
Mid-Century (2035-2064	4)		
MEDIUM EMISSIONS (RCP 4.5	+12 days	16 days	10 - 25 days
HIGH EMISSIONS (RCP 8.5)	+15 days	19 days	11 - 31 days
End-Century (2070-2099	)		
MEDIUM EMISSIONS (RCP 4.5	+16 days	20 days	12 - 37 days
HIGH EMISSIONS (RCP 8.5)	+33 days	37 days	24 - 70 days

Source: Cal-Adapt, Extreme Heat Days.

#### 1.7. Wildfire

Across California, wildfire season typically runs between late summer to early spring, but the California Department of Forestry and Fire Protection (CalFire) reports that fires are starting earlier and ending later with each passing year. Intense dry seasons, warmer spring and summer temperatures, reduced snowpack, and earlier snowmelt make forests and vegetation more susceptible to wildfires. CalFire estimates the length of fire season had increased by 75 days in 2020. Natural events, such as warm and dry Diablo winds, which typically occur in the spring and fall, further increase the growth of fires and threat to the region. According to the LHMP, the geography, weather patterns, and vegetation in the East Bay area provide ideal conditions for recurring wildfires.

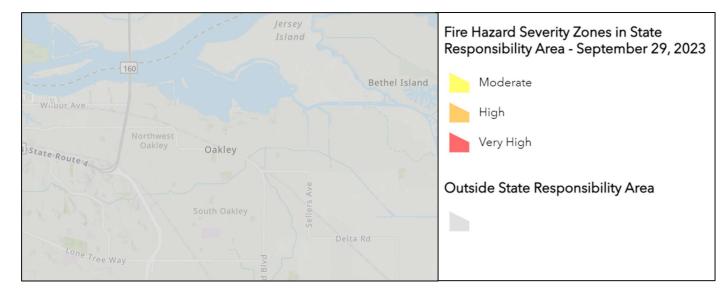
According to the National Fire Protection Association (NFPA), during 2011-2015, fire departments throughout the United States responded to an estimated average of 306,000 brush, grass, and forest fires per year.<sup>29</sup> According to the Global Institute of Sustainable Forestry at Yale University, taxpayers spent more than \$1.6 billion to combat more than 88,400 fires nationwide.<sup>30</sup> Many of these fires burned in wildland urban interface (WUI) areas and exceeded the fire suppression capabilities of those areas. Additionally, in 2021, the Forest Service spent \$3.7 billion and the Department of Interior spent \$648,000

<sup>&</sup>lt;sup>28</sup> California's Fourth Climate Change Assessment, San Francisco Bay Area Region Report, page 8.

<sup>&</sup>lt;sup>29</sup> National Fire Protection Assocation (NFPA), Brush, Grass, and Forest Fires, September 2018. Available at https://www.nfpa.org/education-and-research/research/nfpa-research/fire-statistical-reports/brush-grass-and-forest-fires. Accessed August 2024.

<sup>&</sup>lt;sup>30</sup> Morton et al, Assessing the Environmental, Social, and Economic Impacts of Wildfire, May 2003. Available at <a href="https://yff.yale.edu/sites/default/files/files/wildfire\_report(1).pdf">https://yff.yale.edu/sites/default/files/files/wildfire\_report(1).pdf</a>. Accessed August 2024.

in fire suppression costs. <sup>31</sup>According to CalFire's Very High Fire Hazard Severity Zone (VHFHSZ) Map and Oakley General Plan, there are no parcels within the City that are located in a VHFHSZ nor in any High, Moderate or other Fire Hazard Severity Zone (FHSZ) (Refer to Figure 9: Fire Hazard Severity Zones). In terms of wildland and urban fire hazards, the City is entirely within the boundaries of critical Fire Weather Class 3, which correlates to 9 ½ or more days per year of moderate, high, and extreme fire hazard. The Class 3 category is the highest in the County, with Class 1 having less than 1 day per year, and Class 2 having 1 to 9 ½ days per year. <sup>32</sup> Though the City does not have any VHFHSZs or FHSZ, the General Plan includes goals, policies, and programs related to fire hazards and protection. An example of a goal is to promote a high level of emergency preparedness to protect public health and safety in the event of a natural or human-caused disaster. A policy under this goal is to require the provision of fire fighting equipment access to open space areas in accordance with the Fire Protection Code and to all future development in accordance with Fire Access Standards.



**Figure 9: Fire Hazard Severity Zones** 

#### 2. Social Vulnerability

This section describes demographic and socioeconomic characteristics of the City that are potentially disproportionately impacted by climate change risks. Some populations, particularly those that are low-income, non-white, and disabled disproportionately experience pollution burdens caused by industry and commerce. The impacts are accelerated by climate change and can decrease economic opportunities, public health, and overall quality of life. CalEPA identifies these areas as "disadvantaged communities" and utilizes funding provided by SB 535 (De Leon, 2012) and AB 1550 (Gomez, 2016) to invest in planning and infrastructure upgrades. This section follows the California Air Resources Board Climate Vulnerability Metric to identify categories of social vulnerability i.e., age, energy costs, employment sectors, and property insurance claims, and the impacts on social groups based on projected climate scenarios.

<sup>&</sup>lt;sup>31</sup> United States Senate, A Burning Issue: The Economic Costs of Wildfires. Available at <a href="https://www.budget.senate.gov/imo/media/doc/Mr.%20Nicolas%20Loris%20-%20Testimony%20-%20Senate%20Budget%20Committee3.pdf">https://www.budget.senate.gov/imo/media/doc/Mr.%20Nicolas%20Loris%20-%20Testimony%20-%20Senate%20Budget%20Committee3.pdf</a>. Accessed August 2024.

<sup>&</sup>lt;sup>32</sup> City of Oakley, General Plan Focused General Plan Update. Available at <a href="https://b0b2eb52.rocketcdn.me/wp-content/uploads/2022/07/Oakley-General-Plan Adopted-2022-01-11.pdf">https://b0b2eb52.rocketcdn.me/wp-content/uploads/2022/07/Oakley-General-Plan Adopted-2022-01-11.pdf</a>. Accessed August 2024

#### 2.1 Vulnerable Populations

Young children and young adults make up more than a third of the City's population. According to the US Census Bureau 2019 ACS estimates, the highest percentage of age groups are ages 5-14 (17.7%) and age 15-24 (15.2%). The largest racial and ethnic group are Non-Hispanic White; however, Hispanic or Latinx and other non-Hispanic race groups are the fastest growing racial groups and make up more than half of the City's population<sup>33</sup> (see **Figure 10**: **Racial and Ethnic Composition, City of Oakley** below). According to the US Census Bureau 2019 ACS 5-year estimates, more than half of households in the City have an income of \$100k or greater<sup>34</sup>. Households with moderate to above-moderate median incomes tend to be homeowners and White. In the City, 10.7% of the population has a disability of some kind with ambulatory and cognitive difficulties being the most common type of disability. Although housing tenure (renter, owner) among racial groups vary, low-income renters with disabilities and young children are considered vulnerable populations and may be more exposed to climate change impacts.

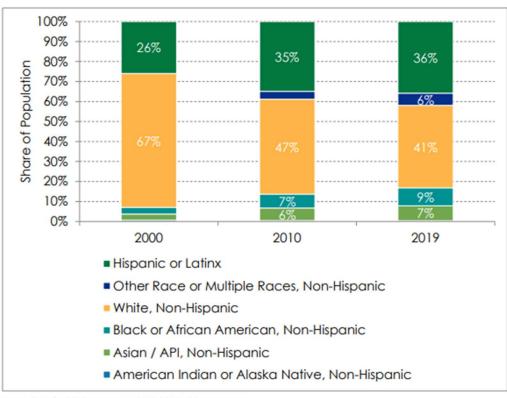


Figure 10. Racial and Ethnic Composition, City of Oakley<sup>35</sup>

Notes: Data for 2019 represents 2015-2019 ACS estimates.

The Census Bureau defines Hispanic/Latino ethnicity separate from racial categories. For the purposes of this graph, the "Hispanic or Latino" racial/ethnic group represents those who identify as having Hispanic/Latino ethnicity and may also be members of any racial group. All other racial categories on this graph represent those who identify with that racial category and do not identify with Hispanic/Latino ethnicity.

Source: ABAG Housing Element Data Package, U.S. Census Bureau, Census 2000, Table P004; U.S. Census Bureau, American Community Survey 5-Year Data (2015-2019), Table B03002.

<sup>&</sup>lt;sup>33</sup> 2023-2031 Oakley Housing Element, Chapter 2

<sup>&</sup>lt;sup>34</sup> The median income for a single-person householder is \$99,950.

<sup>35</sup> Ibid.

Significant income disparities exist among households in the City. Households with limited income may experience less access to a wide range of resources that are perpetuated by historic redlining and discrimination. The City contains a census tract (6013302005) that is identified as a disadvantaged community, as shown in **Figure 11: SB 535 Disadvantaged Communities** below. The census tract is adjacent to former chemical plant that is currently an industrial logistics center located south of the railway. The census tract also contains hazardous materials facilities such as auto repair shops and metal scrap yards<sup>36</sup>. The definition considers CalEnviroScreen scores in its identification of disadvantaged communities, as shown in **Section 1.1 Air Quality** above.

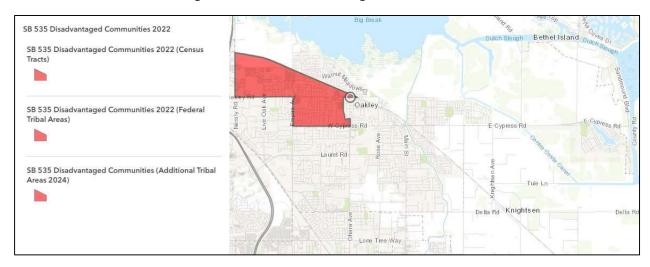
Another measure of social vulnerability to climate change is through costs to the consumer. The CARB climate vulnerability metric ("CVM") provides another perspective of assessing the impacts of climate change at the census tract level. According to the CVM, the City of Oakley is anticipated to experience an annual damage to human welfare equivalent to roughly one percent of tract-level income by midcentury<sup>37</sup>. The metric is primarily driven by higher mortality risk and lower hours worked in the City and larger Bay Area compared to the rest of the State. Flood-related property damage costs is anticipated to increase. Electricity consumption appears to remain stable while natural gas consumption decreases. The CVM shows that how climate, demographics, and socioeconomic conditions vary as the climate warms through mid-century under a moderate emissions scenario (RCP4.5).

The California Healthy Places Index (HPI) also provides another measure of social vulnerability by utilizing a percentile ranking based on a jurisdiction's community conditions. Conditions consider the social drivers of health i.e., education, job opportunities, access to clean air and water, access to transportation options and healthcare, dignified housing, and other attributes as indicators of a healthy community (Refer to **Figure 12: City of Oakley HPI Score**). The City has healthier conditions than 67.3% of other jurisdictions in California; however, it is lower than the County average (91.1 percentile) indicating that significant disparities may exist among jurisdictions within the County. Assessing social vulnerability across the City can help jurisdictions understand their community's resilience when interacting with climate change phenomena.

<sup>&</sup>lt;sup>36</sup> 2024 County Local Hazard Mitigation Plan, City of Oakley Annex.

<sup>&</sup>lt;sup>37</sup> CARB Climate Vulnerability Metric. 2022. Accessed on October 2024 at https://ww2.arb.ca.gov/sites/default/files/2022-11/2022-sp-appendix-k-climate-vulnerability-metric 0.pdf.

Figure 11: SB 535 Disadvantaged Communities



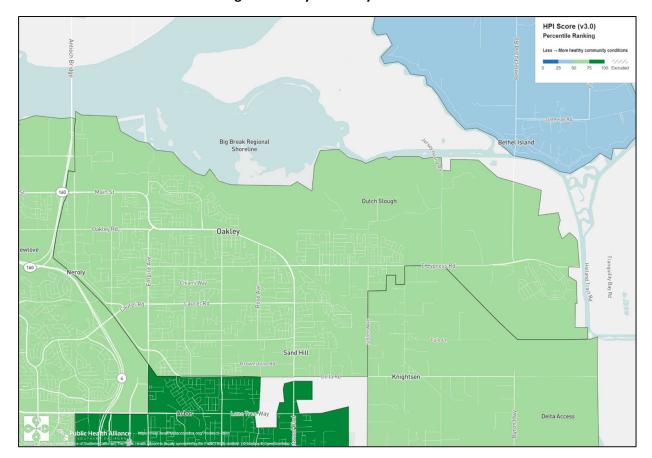


Figure 12: City of Oakley HPI Score

#### 3. Conclusion

The long-term climate effects predicted to be experienced by Oakley include changes in precipitation amounts and patterns, increase in flooding, increased temperature, increase in SLR, and wildfires. Local annual levels of precipitation in Oakley are not anticipated to change drastically with slight increases in the latter decades of this century. The City's flood risk due to annual average precipitation is not projected to be substantially impacted by climate change as precipitation is expected to remain fairly consistent. However, the increase in the frequency and intensity of severe rainstorms in the future may result in increased risk of localized flooding events.

In general, precipitation in northern regions of California is projected to increase. As the City is part of the Delta region, SLR is also anticipated to increase and secondary impacts such as storm surge, groundwater inundation, and erosion may intensify. Temperature changes in Oakley are projected to change in terms of extreme heat days, with a resultant increase on the reliance of climate modifying appliances such as air conditioning. An increase of extreme heat days poses a greater risk to sensitive communities such as homeless residents, senior citizens, and people with disabilities. In terms of wildfire, no areas within the City were identified in a VHFHSZ or FHSZ, and the City's vulnerability to wildfire is likely to remain the same even with a changing climate. Vulnerable communities in the City reside in the census tract 6013302005 as it is adjacent to a former chemical plant and is surrounded by other hazardous material facilities. The City was also found to have an HPI score of 67.3%; thus, indicated, the City has 67.3% healthier conditions than other jurisdictions in California.

## **APPENDIX D: CLIMATE ANALYSIS**

Appendix begins on the next page as a distinct attachment.

Asset Add	idress	Ownership	Built	Use Category	Asset Type	Source	KH Notes	City Notes
	992742, -121.708840	cramp	Dant	Detention basin	Water Resources	City GIS map		only motes
Teakwood Basin 37.99	995870, -121.728593			Detention basin	Water Resources	City GIS map		
	.002132, -121,744906			Detention basin	Water Resources	City GIS map		
Live Oak Basin 38.00	.003682, -121.739674			Detention basin	Water Resources	City GIS map		
	993953, -121.746826			Detention basin	Water Resources	City GIS map		
Frandoras Circle Drainage 37.99 Channel	.991724, -121.754762			Detention basin/Levee	Water Resources	City GIS map		
	.007024, -121.722946			Detention basin/Levee	Water Resources	City GIS map		
	990880, -121.749372			Detention basin	Water Resources	City GIS map		
Diablo Water District 87 Ca	Carol Lane, Oakley Ca 94561	County Water District Law of California	1953	Also serves Cypress Corridor, and Hotchkiss Tract, as well as Summer Lakes, and portions of Bethel Island and Knightsen.	Water Resources	City of Oakley Emergency Operations Plan; 2024 County LHMP		
Freedom High School 1050	50 Neroly Rd, Oakley, CA 94561	Liberty Union High School District	2002	Joint-use school/community park	Educational	Parks, Trails, Recreation Master Plan 2030; 2024 County LHMP	Also contains communication facilities (critical infrastructure)	
Gehringer School 100 S	D Simoni Ranch Rd, Oakley, CA 94561	Operated by Oakley Union Elementary School District	1980	Joint-use school/community park area	Educational	Parks, Trails, Recreation Master Plan 2031		
Laurel Elementary School South	uth of Laurel Road near Nutmeg Fields Street	Operated by Oakley Union Elementary School District		Joint-use school/community park area	Educational	Parks, Trails, Recreation Master Plan 2032		
Oakley Elementary School Corn	rner of Norcross Lane and West Ruby Street	Operated by Oakley Union Elementary		Joint-use school/community park	Educational	Parks, Trails, Recreation Master Plan 2033		
Antioch/Oakley Regional End of	d of Bridgehead Road. At the site of the old Highway 160 Bridge	School District		area	Recreational	Parks, Trails, Recreation Master Plan 2038	High biological sensitivity	
Shoreline Park								
Big Break Regional Shoreline/ Delta Discovery Experience	Big Break Rd, Oakley CA 94561	East Bay Regional Park Districts		Used for environmental education, recreation, and ecological restoration	Recreational and nature preserve	City of Gakley Website -Recreation/Parks section	Appurtenant structures include trails, picnic and meadow areas, amplitheater, boat launch facilities, anticoth fishing piler, visitor center building. Much of property is underwater or tidal marshlands, with some uplands along the southerly edge. Sensitive to changes in water quality i.e., algal blooms. High biological sensitivity.	The Antioch fishing pier is by the bridge. This location has a much smaller covered dock structure. The unsure if it has a name. This website has much better info: https://www.ebparks.org/parks/big-break
Big Break Marina 100 i	D Big Break Rd unit B, Oakley, CA 94561				Recreational and industrial	2020 General Plan	Located in Northwest Oakley Planning Area - visions for future as primary employment center	This are is not industrial atthough an adjacent use is a legal non-conforming construction materials business with shipping access. The marin is zoned Commercial Recreation-Aquatic (CR-A) District. The reference to industrial and a vision for an employment center is for the Northwest Oakley Planning Area, but not specifically this or any of the mrains in the subarea.
Driftwood Marina 6338	38 Bridgehead Rd, Oakley, CA 94561				Recreational	2020 General Plan	Located in Northwest Oakley Planning Area - visions for	
							future as primary employment center	
Antioch fishing pier 38.0:	.019559, -121.750840				Recreational	City of Oakley Website -Recreation/Parks section		
Legless Lizard Preserve		Owned by the District		Home to endangered species of the legless lizard and was fenced off to provide protection and habitat for research and study	Recreational	City of Oakley Website -Recreation/Parks section		This is listed as a park, but it is not for recreational purposes. The preserve is off-limits to human activity.
EBMUD Aqueduct From	om the Delta area of Black Diamond and Contra Loma Regional Parks			primarly for agricultural use.	Recreational	City of Oakley Website -Recreation/Parks		
Marsh Creek Regional Trail Mea	eanders along the Marsh Creek flood control channel and connects to				Recreational	section City of Oakley Website -Recreation/Parks		
	Big Break access trail. Between Oakley and Brentwood					section		
	31 Main St, Oakley, CA 94561		2016		Government Building	City of Oakley Website - Police section		
East Contra Costa Fire 540 0 Protection District Station 93	D O'Hara Ave, Oakley, CA 94561	Contra Costa County Fire Protection District	2011		Government Building	City of Oakley Website - Fire section; Measures E&G section; CCCFPD website	Fire protection and emergency response services	The East Contra Costa Fire Protection District no longer exists. All operations were absorbed by the Contra Costa County Fire Protection District. URL to Fire District's website: https://www.cccfpd.org/
	00 E Cypress Rd, Oakley, CA 94561	Contra Costa County Fire Protection District			Government Building	City of Oakley Website - Fire section;	Fire protection and emergency response services	
Station No. 95 City Hall 3231	31 Main St. Oakley CA 94561	City of Oakley		Administrative services	Government Building	Measures E&G section; CCCFPD website City of Oakley website	Emergency energians contex and corners	
	Carol Lane, Oakley, Ca 94561	Service provided through a franchise agreement. Agreement between the City of Oakley and Oakley Disposal Service.		Disposal Services	Waste Management	City of Oakley Emergency Operations Plan	Emergency operations center and response	
Randall-Bold Water Treatment 38.00 Plant	000674, -121.702133	Diablo Water District (joint owner)	1992		Water Resources	2024 County LHMP	Provides sewage collection, treatment and disposal services to the City of Oakley	I think the descriptions in the notes for this and the item below are mixed up. Randall-Bold water treatment plan only treats water. Ironhouse Santitary District only treats sewage.
Iron House Sanitary District 450 \	O Walnut Meadows Drive Oakley, Ca 94561		1945		Water Resources	City of Oakley Emergency Operations Plan; 2024 County LHMP	Provides treated water to about 360,000 people in central and east areas of County	"Ironhouse" (one word) Sanitary District. Does not provide treated water, handles sewage. I believe this site is mislabeled as "Randall-Bold" on some online maps, perhaps Google Maps. Randall-Bold is located south or Laurel Road and east of Neroly Road.
La Clinica Oakley 2021	21 Main St, Oakley, CA 94561		2011		Medical	City of Oakley Website - Hospital/Clinics section		
John Muir Medical Center 2400		City of Brentwood - provides service to			Medical	City of Oakley Website - Hospital/Clinics		
	ad and Concord Avenue	Greater Brentwood/East County region				section		
Road		City of Antioch			Medical	City of Oakley Website - Hospital/Clinics	Level one trauma center	l l
Road Kaiser Permanente 5601	D1 Deer Valley Rd, Antioch				Medical Medical	City of Oakley Website - Hospital/Clinics section City of Oakley Website - Hospital/Clinics	Level one trauma center	
Road Kaiser Permanente 5601	01 Deer Valley Rd, Antioch 01 Lone Tree Way, Antioch	City of Antioch				City of Oakley Website - Hospital/Clinics section City of Oakley Website - Hospital/Clinics section City of Oakley Website - Hospital/Clinics	Level one trauma center	

Almond Grove School	5000 Amaryllis Street Oakley, CA 94561	Operated by Oakley Union Elementary	2014		Educational	City of Oakley Website - School section		
Allifolia Grove scriool	3000 Amaryllis Street Oakley, CA 94361	School District	2014		Educational	City of Oakley Website - School Section		
Delta Vista Middle School	4901 Frank Hengel Way, Oakley, CA 94561	Operated by Oakley Union Elementary	2001		Educational	City of Oakley Website - School section		
Iron House School	4801 Frank Hengel Way, Oakley, CA 94561	School District  Operated by Oakley Union Elementary School District	1862		Educational	City of Oakley Website - School section		
Summer Lake School	4320 E Summer Lake Dr, Oakley, CA 94561	Operated by Oakley Union Elementary	2020		Educational	City of Oakley Website - School section		
The Commons at Oak Grove	53 Carol Lane, Oakley	School District			Residential - Senior and family Housing	City of Oakley Website - Seniors Section		
Apartments	ANTO Francisco Anno Orbitano	+	2004		Buildental Control of facilities	Ch. of Oalday Walanta Control Control		
Summer Creek Place Golden Oak Manor	4950 Empire Ave, Oakley 5000 Kelsey Lane, Oakley		2001 1995		Residential - Senior and family Housing Residential - Senior and family Housing	City of Oakley Website - Seniors Section City of Oakley Website - Seniors Section		
Kamps Propane	1433 Main Street, Oakley		1995	Hazardous Materials Facilities	Industrial	City of Oakley Website - Sellors Section  City of Oakley Emergency Operations Plan	Identified as hazardous facility in EOP	
Kamps Propane	1433 Wall Scient, Carley			nazardous wateriais i acilities	industrial	city of Oakley Effergency Operations Flam	identified as fiazardous facility in EOF	
Kragen Auto Parts	100 E Cypress, Oakley			Hazardous Materials Facilities	Commercial	City of Oakley Emergency Operations Plan	Identified as hazardous facility in EOP	
Suburban Propane	30 Delta Rd. Oakley			Hazardous Materials Facilities	Industrial	City of Oakley Emergency Operations Plan	Identified as hazardous facility in EOP	
Telephone Systems	Throughout City			Overhead utilities	Utility	City of Oakley Emergency Operations Plan; GIS Map		
Radio Systems	Throughout City			Overhead utilities	Utility	City of Oakley Emergency Operations Plan; GIS Map		
Microwave Systems	Throughout City			Overhead utilities	Utility	City of Oakley Emergency Operations Plan; GIS Map		
Transmission Lines	Throughout City			Overhead utilities	Utility	City of Oakley Emergency Operations Plan; GIS Map		
Substations/generation	Throughout City				Utility	City of Oakley Emergency Operations Plan		
PG&E Company Antioch Gas	5900 Bridgehead Rd, Oakley CA 94561	Pacific Gas and Electric Co.		Underground gas pipes	Utility	Google Maps		
Terminal Facility	2200 Bridgeress ha, Daniey CA 24301	some day and Electric Co.		Onder Broatia Bas hibes	Othicy	Google maps		
Oakley Generating Station	6000 Bridgehead Rd, Oakley CA 94561	Pacific Gas and Electric Co.	1996	Natural gas fired power plant	Utility	Google Maps	Filed for permanent closure of facility to CA Energy Commission in 2019	This facility was never constructed.
Mantelli Pump Station #4	37.983120, -121.623709				Utility	City GIS map		
Sandhound Pump Station #3	37.996088, -121.625475				Utility	City GIS map		
Dutch Slough Pump Station #2					Utility	City GIS map		
Burroughs Pump Station #1	38.010630, -121.663192				Utility	City GIS map		
Main and Minor Pumps	Throughout City (north of E Cypress Rd & east of Main St)				Utility	City GIS map		
Natural gas pipelines	Along E Cypress Rd, Laurel Rd, Empire Ave, Hwy 4, and Hwy 160				Utility	City GIS map		
Highway 4 (Main Street)	Critical areas include the Highway 4/Highway 160 Exchange and the Rose				Transportation	City of Oakley Emergency Operations Plan		Routes that could be used to evacuate the City:
								- Main Street due west to Highway 160 interchange or City of Antioch beyond Empire Avenue due south to Cities of Antioch and Brentwood O Hara Avenue due south to City of Brentwood Main Street due south to City of Brentwood Main Street due south to City of Brentwood Sellers Avenue to south to Unicorporated Contra Costa County Interchange at Wilbur Avenue and Highway 160.
Vintage Parkway Overpass	38.000289, -121.719097			Highway bridge	Transportation	City of Oakley Emergency Operations Plan	Bridge that bisects railway - overpass	
Rose Avenue Overpass	37.995245, -121.704082			Railway bridge	Transportation	Google Maps	Railway overpass above Rose Avenue - connects to water district facilities across from railway	
E Cypress Rd Pass	37.990651, -121.694888			At-grade railway and road pass	Transportation	Google Maps		
Marsh Creek Overpass	37.991439, -121.696063			Railway bridge	Transportation	Google Maps	Railway overpass above Marsh Creek Regional Trail - located near levees to the north; Asset may be inundated; ART map shows depth of flooding = 1.25 feet (12: SLR w/ 100yr storm)	
Bridgehead Road Overpass	5825-5751 Bridgehead Rd, Oakley, CA 94561			Railway bridge	Transportation	Google Maps	Railway overpass bridge above Bridgehead Rd	
Burlington northern and Santa Fe (BNSF) Railway					Transportation	City of Oakley Emergency Operations Plan	For e-commerce (delivery for logistics centers)	
Bike Lanes (Class I, II, and III)	Throughout City				Transportation	https://cityofoakley.maps.arcgis.com/apps/m apviewer/index.html?layers=faf5e3b965f347f 439ee2fe845838e9		
Holland Tract Road and Delta Road					Transportation	City of Oakley Website - East Cypress Emergency Evacuation Information		
Oakley Library and Community Center	1050 Neroly Rd, Oakley, CA 94561	Contra Costa County operates the Oakley			Civic	City of Oakley Website - Oakley Library		
Tri Delta Transit (aka Eastern Contra Costa Transit Authority (ECCTA))					Transportation	City of Oakley Website - Transportation Transit Services	Providing public transit fixed route and paratransit service	
Oakley Park & Ride Lot	37.992714, -121.699017	ECCTA Special Purpose District		1	Transportation	2024 County LHMP	Identified as cirtical facility for Tri Delta Transit	
Bay Area Rapid Transit (BART)	Nearest one to Oakley is the Antioch Station	special rai pose District		1	Transportation	City of Oakley Website - Transportation	and an area racing for 111 Delta Hallatt	
ou, rica napiu mansii (DANT)	incorest one to daniey is the Antioch Station				i ansportation	Transit Services		
Amtrak Station	Previously Antioch Station. Station will be located behind Main Street			1	Transportation	City of Oakley Website - Transportation		
JR JRUION	between Second Street and Norcross Lane.				sportation	Transit Services		

						i e	
CalTrain	Downtown Oakley, north of the Main Street and O'Hara Avenue			Transportation	City of Oakley Website - Transportation		CalTrain Oakley Platform curent start of construction ETA
	intersction.				Transit Services		is early 2025.
Oakley Port & Yard	38.010292, -121.730800			Economic Development	GIS Web Map; 2020 Oakley General Plan	Zoned for business park and commercial recreational	
Agricultural farmland	Throughout City	Various private owners	Row crops, vineyards	Agriculture	2020 Oakley General Plan		
Mazzoni-Live Oak Vineyard	5181 Live Oak Ave, Oakley CA 94561			Agriculture	https://historicvineyardsociety.org/vineyard/li	ve-oak	
Downtown Oakley	Main St (between 2nd St and Cure Dr)			Zoning & Development	2020 Oakley General Plan	Downtown Specific Plan area - planned for mixed use	
						development to accommodate forcasted growth	
Levees	Eastern City boundaries surrounding Summer Lake subdivision, along	Reclamation District	Flood management	Water Resources	2024 County LHMP	Protections against flooding	
	Sandmound Blvd, Dutch slough Dr, Marsh Creek regional trail, north						
	Sellers Ave, and along Contra Costa Canal)						
Storm Drain Lines	Throughout City	City of Oakley Public Works	Flood management	Water Resources	https://cityofoakley.maps.arcgis.com/apps/ma	Some areas w/in City with vineyards designated Agricultural	
						Limtied (to protect and provide reflections on the City's	
						hisotirc and continuing agrarian practices); Ag lots for sale -	
						rapidly being converted to logistics or housing.	
Former DuPont Chemical Plant	northwest Oakley area along Neroly Rd		Hazardous Materials Facilities	Waste Management	2020 Oakley General Plan; 2024 County LHMP	Oakley has a hazardous materials facility located in a	- The site has been cleaned up and developed as the
						floodplain; DuPont site is in the cleanup process.	Oakley Logistics center (also refered to as Contra Costa
							Logistics center).
Auto Repair/Metal Scrap Yard	northwest Oakley area along Neroly Rd		Hazardous Materials Facilities	Waste Management	2021 Oakley General Plan; 2024 County LHMP		
,					, , , , , , , , , , , , , , , , , , , ,		
Lauritzen Yacht Harbor	northwest Oakley near Lauritzen Ln and Antioch bridge			Recreational	2020 Oakley General Plan	Located in Northwest Oakley Planning Area - visions for	
						future as primary employment center	

Additional Source: https://cityofoakley.maps.arcgis.com/apps/webappviewer/index.html?id=1a56fc55b35e413dbcc2f305f2eea5da
Empty cells indicate relevant data was not available

Sectors	Climate Hazard	Special Asset	Sensitivity	Vulnerability Probability	Magnitude	Adaptive Capacity	Take Action or Accept Risk	'ype of Action Anticipated	Adaptation Strategy
		•	•	,				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Agriculture	Precipitation Changes	armland and Vineyards	by Capacite Basis, Beven Road, and Lauri Road. David agriculture areas are to the substance of the city was opposed to be a compared to the control and only the city value folights because, and fast opposed Road.  The city of Callery is characterized by west winters: Nowwer, the city resides in a mediterranean climate that is grown to rejic with of principage disrugath. The city of Callery's comprise primarily of Bowland col associations, section of the city of the city of the city of Callery's comprise primarily of Bowland col associations, sectionally discovered to the city of Callery's comprise primarily of Callery's comprise of primarily of Callery's comprised of Callery the comprise of Callery Callery's Callery's comprised of Callery Callery Callery's Cal	It is projected that average projection from 2005 to 2004 will increase bit 5 b shoth and wood increase injury to 16 inches in 2019 2009.  Based on the FEHAN MIS, total events on record from propipation changes (e.g., 2004) and the control of the 2019 and the 2019 and 2019	agricultural is one of the main economic scheller in sed should the city overgotation changes yeegistely impact larger ingential end wineyards. Thus, reducing economic opportunities for the city. Agriculture is also a considered a chalemated component of its community's character class of agriculture due to precipitation changes would agriculture between the community of Calaloy.		Take Action	Coordinate with other agencies	Continue or initiate conditation with agencies used as, but not initiated to, Centra Casta County Department of Conservation and Development, Contra Casta Social Service, Hazardon Materials Program Office, Contra Casta County fire Protection District, Contra Class County Office of the Shortf. Contra Costa County Office Office Copy, Contra Costa County Office of the Shortf.
Agriculture	Flooding	and Vineyards	Cypress Road, and a second of the Child (NRT), the Chy of Oakley was identified to have a very high rating and a coore of 80.2 = Migh Sensibility		Installation inclinated. The Booking of familiands and obequested would form the property of	Moasures to combat flooding rockeds adequate dramage systems. The may include a year that mutualizes the existrecture, improved callarge, and emerges sediment that accumulates over time. In addition to an adequate dramage system, in-disch and accumulates over time. In addition to an adequate dramage system, in-disch and Modium Adaptive Capacity.  Modium Adaptive Capacity	Accopt Risk		
Agriculture	Severe storms and extreme weather	armland and Vineyards	As the city of Calley has a connection to the birth, agriculture is a fendamental component of the community. As a fendament is relational, as produced in the connection of the community of the connection of the community of your partners fload, there house, and caused fload. Doned agriculture areas are to the contented of the city of capitate fload and then early the central country of the city year freighter house, siden sharens, and year of capitate fload and then early the central country of the city year freighter house, siden sharens, and year start partners are sharens as the country of the city of produced the city of the city of the city of city of produced disquarts. The city of Calley's community of fendament collection as the city of city of the city	with an annualized frequency of 1.8 events, per year Low Probability	(los) - Low Magnitude	Measures to credest severe atterns and extreme weather hocked plant protection products that can high protect singuish from lang diseases. Canopy management is also a printed solution as it will shade agriculture from excessive water, however, and a printed solution as it will shade agriculture from excessive water. However, of plant growth - Lew Adaptive Capacity supplies whether at the existing Convenience of plant growth Lew Adaptive Capacity	Accept Risk		
Agriculture	Temperature changes - warming	and Vineyards	As the city of Calley has a connection to the faith, agriculture is a fundamental component of the community, in character, lettorical, projectime has been the reconnect calley in an advant die cy. The total developed agricultural radia of the city is 18 Extract. Based on the Calley general plan, agricultural lambed zeros borefered agricultural radia of the city is 18 Extract. Based on the Calley general plan, agricultural lambed zeros borefered by Captimer Based. Service Rose, and surface the Calley agriculture uses an or the confinction of the city work of projects. Based the release the central east of the city work flagitural works, projects, and call community. The central results of the city of Calley is 101.3 degrees Fahrenheit. = High Sensibility the extreme heat temperature threshold for the city of Calley is 101.3 degrees Fahrenheit. = High Sensibility	The city of College could experience an average temperature of 7.9 degrees. Archaeolte during the part 2515 to 2614. The 2020, the projections anticipate characteristic degree of the 2020 state of the 2021 per control of the 2021 per college average number of extreme head days recorded for the City in the years 1561 to 390 was found to part of the 2021 per college of the 2021 per college in the years 2035 to 2564, the city is projected to experience 1 to 31 additional to the 2021 per college of the 2021 per college of the 2021 per college to 2021 per college of the 2021 per college of the 2021 to 2020 transfer. Additional Probability.  Based on the FEMA MII, total events on record from severe weather (e.g., heat wave) to 0.0 with an annualized frequency of 0.0 events per year.  Based on the FEMA MII, total events on record from widths is not applicable with an Based on the FEMA MII, total events on record from widths is not applicable with an Based on the FEMA MII, total events on record from widths is not applicable with an Based on the FEMA MII, total events on record from widths is not applicable with an Based on the FEMA MII, total events on record from widths is not applicable with an Based on the FEMA MII, total events on record from widths is not applicable with an annual properties.	Next wavely is \$35,350 with a expected annual FEAA RHO loss core of \$2.2 (institutive) high. Further, owner primary season and capitumes are making concentrated man the interaction of usurel head and from Nobal. This concentrated man the interaction of usurel head and from Nobal. This was the season of the septicated for contract sections with the septicated for contract sections with many the septicated for contract sections with many the section of the septicated for contract sections and the section of the s	Measures to credit temperative summing include proper imprigion management, forestitution, and one pretention. The city of college years prost includes gridual such as grapes, almonds, and apricots which all require targe quantities of water and are caroline to extreme hear Lee Adaptive Capacity	Take Action	Coordinate with other agencies	Continue or institute conditation with generics such a, but not infinited to, Contro Costal County Populment of Cosmonative and Development, Costar Costal Robinskin Services, reasoning to the Costal Costal Costal Costa C
Agriculture	Wildfre	Farmland and Vineyards	As the city of Calleyhear accessed on the Botta, agriculture is a fundamental component of the community, in character, effectivel, agriculture has been the extension calculty in an available of the Chiral developed agricultural land of the city is \$8.6 care. Based on the Calley agricultural landed to exp. The total developed agricultural land on the city is \$8.6 care. Based on the Calley agriculture land and the best and the land the city developed and the community of the city seed. The city seed to the city seed to the city seed (contents foot and the risk the care asks of the city seed registers). According to Contra Costa Committe Calley (asks and the city seed (contents foot and the city seed asks and the contra seed of the city seed (person foot and the city seed asks and the contra seed of the city seed (person foot and the city seed asks and the contra seed of the contra seed of the city seed (person foot and the city seed asks and the contra seed of the city seed (person foot and the city seed asks and the city seed (person foot and the city seed asks and the city seed (person foot and the city seed (person fo	annualized frequency of Do events per year.  Band on the City of Grey Prospects of Constitute Plan, wildland fines are infrequent with moderates severity - Lever Probability	The expected annual loss for agriculture value due to writine is \$1,743 with a specified annual ETAM ARB loss score of 27.6 (relatively low) - Low Magnitude  The expected annual loss for anticulture value due to sea level rise is 50.  The expected annual loss for anticulture value due to sea level rise is 50.	Measures to combat widthe include creating greenfelt buffer zones from agriculture, molecing vegetation, and occasional prescribed fires. + High Adaptive Capacity  What is a second of the second prescribed fires and the second prescribed fires and the second prescribed fires. + High Adaptive Capacity  Measures to combat sea level rise include improving the soil health less, siteitins cover	Accept Risk		
			character. Nethorcally, agriculture has been the economic activity in and around the city. The total developed graphursultural band in the city like a serve, later of the backey gener pile, any graphursultural limited access bordered by Carpetter Rould, et all more Rould, and caused Rould. Zoned agricultural areas are to the southeast of the city water clight have, Selfers Amen, and fast Appeter Rould. The city of Calakey is situated along the San Joaquin River detta which experiences stadi influence from the larger San Francisco Bay and Salaina Ray west of the City. The City of Calakey is charactered by wet interface, because the city of the City of Calakey is charactered by wet interface. However, the city resides in a mediterranean climate that is grown to cycles of prolonged drought. The city of Calakey is comprised primarily of boulend ool association, are discarded as side to view you be permeability, highly expensive, and corrorior with city for classified as discontinuous discontinuous control of the control of the control of the control of the Calakey is comprised as an expensive control of the control or classified as discontinuous desired as the self-self-self-self-self-self-self-self-	with an annualmed frequency of 0 of events per year.  With a 12-ind, 24-ind, 36-ind, and E3-ind, has level rise scenarios, zoned depictulars a load, see execution of the scenarios, zoned depictulars a load, see executions of the see execution of the see executi	with a expected annual TREAM fill to score of 0.0 (no expected annual locate). What 12 also All Execution and 500 pinc moves, the shortest parts is unticquised to experience SLR inundation at a depth of 2 - 16-45- inches Low Magnitude	crops and deep-rocted personially where some agriculture grow. This can help soil health by making it more resilient to damp an dry periods Medium Adaptive Capacity	Accopt Risk		
Recreational	Precipitation Changes	egless Lizard Preserve	This preserve is approximately 7.3 zeros that recludes three covered cand duries and it located between the Architochic Topical & Sorta Fer rational right of way and Walnut Meadows Grive in the Big Break Area. = Medium Sensibility	Average procipation between 1961 is 1900 was it inches with a high of 28.7 inches and a low of 4.5 inches with a data low of 4.5 inches and a low of 4.5 inches and a low of 4.5 inches and a low of 4.5 inches in 2000 in 2000. It is a low of 2000 in 2000 i	Legions Lands usually profer boxes, andry sold with come plant cover and mostlers. With proception changes (beaver proceptions), regions trans- may have increased difficulty finding by before. In addition, as the control of the control of the control of the control of the control of the control of the control of the control of the control of the habitat for the lazed. The lizands may also be more active and require more foot supely, not been control, with proception changes (drough), region lazed may face increased deleydration and food drortages due to the last of water for their prop. * Medium Magnitude*	As the preserver is located and the SIG year floodgains, the surface and subsurface conditions help some and an allow term found will fination. This size helps precluring groundwater aguifers and naturally purify the water. – High Adaptive Capacity	Accept Risk		

Recreational  Recreational	Secure storms and extreme weather secure storms and extreme weather secure secure secure secure secure secure secure secure securing secur	Legies Lizard Preserve	Acciness Topical & Sasta Fe railroad right of way and Walnut Meadows One in the Big Break Area = Medium Greatbirty	Based on the FRMA NRI, total events on record from severe weather (e.g., riverine flooding) is 2 with an annualized frequency of 0.0 events per year.  Based on the City of Dalley Emergency Operations Plans, floods are infrequent but can range from low, moderate, and high sevently = 1.0 we Probability  Based on the FRMA NID, but levents on record from severy weather (e.g. half is 30	ying area. In addition, as the preserve filed Comprises of the covered and dese, proprietions the besite in the discount of the covered and dese, profession changes code operations the besite in the discount of the control of the c	In the preserve is located and in 10 year Roodows, the sentence of closerfully ordinate by the located set them for principal indicates the located set them for principal indicates and included principal indicates and indicate	Accept Risk  Accept Risk  Take Action	Plan for inclusion in future CIPs	Ensure that disease considerations are included in citing and disrigoing decisions of major capital expenditures
Recreational	Wildfire	Legless Lizard Preserve	This preserve is approximately 7.5 arest that includes tree-covered aand dunes and is located between the Alcohoon Topsia & Sattas for allowing right of-way and Wahnut Meadows Drive in the Big Break Area. Based on the Califer Very High First Heard Severity Zook (PHETS) May and City of Caleky General Flau, there we no parestix within the City that are located in a VHETSC nor in any high moderate or other fire heazed avointly zoon.  The City is within the boundaries of rotical fire weather class 3 which correlates to 9.5 more days per year of moderate, High, and oritime fire hazard. Log Sastellishy	is 0.0 with an annualized frequency of 0.0 events per year.  Based on the FEMAN NN, istail events on record from wildfine is not applicable with an annualized frequency of 0.0 events per year.  Based on the City of Callety Tenegrony Operations Plan, wildland fires are infrequent with moderate seventy Low Probability	Protential impacts for the legiess lizard preserve due to wildfire is loss of habitat, decreased air quality, and potential windfire cassilities.  As no parties within the city (i.e. areas of the legiess lizard preserve) are considered to be in a why fair the hazad seventy zone, the magnitude of potential impacts would be low. • Lew Magnitude	Measures to combat wildfire include grazing by livestock to help reduce the amount of the facility or implementing precipited burns to reduce the risk of high-severity fires Adedium Adaptive Capacity	Accept Risk		
Recreational	Sea Level Rise	Legless Lizard Preserve	This preserve is approximately 7.5 axes that includes tree-covered and dunes and is located between the Michibos Topica & Satta Fe ratiosal right of way and Wahrut Meadows Give in the Big Break Area Medium Journal Publishing.	Based on the ETAMA NBI, total events on record from sea level rine is not applicable with an annualized frequency of 0.0 events per year Low Probability	As the general is facility discharged in the control of the preserve in the control of the co	Measures to combat sea level rise include building barriers that can prevent coastal reaction and potentially flooding of some areas of the preserve. • Needlam Adaptive Capacity	Accept Risk		
Recreational	Flooding	Big Break and Driftwood Marina	Board on the Contra Costia County (see I interest Milingston Fina and San Francisco Bay Contravistion and Overloopment Commission by the Big Reak Regional annial/plocative (se visible) for looking. Based on the 2012 Cosley General Fina, these areas are within the 100-year food zone. • Right Senetibility	With a 12 Month has level fire construct, the thoreties are a settled capital of experience are a lower for the hundred and early and 10 and 6 a	well as posterial loss of businesses. Swiness interruption losses associated with a flood over the change on the inability on operate a business because of the flood principal immetracy, equipment, discharges extrained because of the flood principal immetracy, equipment, discharges, requirement, and other through the productive, requirement, continued, and a productive impropriy length or continued through the productive impropriy length or continued through the productive improvement of the productive improvem	Adaptive measures sociade development regulations to minimize damage to file and property, or eminent domain of hazardous proportice. = Medium Adaptive Capacity	Accept Risk		
Recreational	Severe storms and extreme weather	Marina	Based on the Contral Cost County Local Hazard Miligation Pila and San Francisco Bay Conservation and Overelepment Commission, the Big Beak Registral manufa/phoreline Universities for Booking, Based on the 2022 Coaliley General Plan, these areas are within the 100-year flood zone. – High Sensitivity	Based on the FRMA NRI, total events on record from severe weather (e.g. hall) is 30 with an annualized frequency of 1.8 events per year Low Probability	zone, secondary impacts of severe storms such as sea level it is may load to coastal erosion of the marina. Flooding is also a secondary impact of severe storms which may lead to loss of functionality of the marina and building/port damages. = Medium Magnitude	Adaptive measures include development regulations to minimize damage to life and property, or eminent domain of hazardous properties. • Medium Adaptive Capacity	Accept Risk		
Recreational	Temperature changes - warming	Big Brask and Driftwood Marina	The lig Breat and Differend Marina are close to water bodies that can counter extreme warm temperature Cunges Low Sensibility	The city of Cashy could september as average temperature of 77 as degrees. Proceeding driving the security 2005, 1500,	Come Magnitude	Adaptive measures include development regulations to minimize damage to life and properly, or eminent domain of hazardous properties - Medium Adaptive Capacity	Accept Risk		
Recreational	Wildfire	Big Break and Driftwood Marina	band on the Caffee Very High Free Hazed Security Zoos (ProfPHZ) May and City of College, General Plan, Her are a pacends without plan of the Caffee Very Hazed Security Zoos (In any High moderate or other fire Hazade security 2000.  The Caffee Very Hazed Security College Very Hazed Security 2000.  The Caffee Very Hazed Security College Very Hazed Security College Very Hazed Very Law of the Caffee Very Hazed Security College Very Hazed Very Hazed Security College Very Hazed Very Hazed Very Hazed Very Hazed Security College Very Hazed V	Based on the FRMA NBI, total events on record from wildfire is not applicable with an annualized frequency of 0.0 events per year.  Based on the City of Coalety Emergency Operations Plan, wildland fires are infrequent with moderate severity. = Low Probability	Act the Big Break Regional maning/thoreline are near large bodies of water, the impacts of temperature warming are not anticipated to be significant. Further, these areas are not located in a very fire hazard severity zone or in any high moderate or other fire hazard severity zones. = Low Magnitude	Adaptive measures include development regulations to minimize damage to life and property, or eminent domain of hazardous properties: = Medium Adaptive Capacity	Accept Risk		
Necreational	Sea Level Rise	Big Break and Driffwood Marina	The City boundaries to the north encompass the phonetine area which include Big Break. • <b>High Sensitivity</b>	Sased on the FTMA NRI, botal events on record from sea level rine is not applicable with an annualized frequency of 0.0 events per year Low Probability	antiopated to operation \$4.8 in modificant at a depth of 3 to \$6.5 inches. See lived in the world in Constitution at a depth of 3 to \$6.5 inches. See lived in the world in Constitution at the mention. At the series were controlled to interest to the constitution at the mention of the series were constituted enrolled and interestination and inte	Statistics on Bewell for all uses in mutable buff areas, except breakwaters, jetter, and grown. Attentation for protection agents 15th innormal cond wave action intended beach nounthheart, managed retreat, but and amorting (grown, examel, buff indications), and confirming (growner, watering, datarian-based solutional which requires political buyes. • Low Adaptive Capacity	Take Action	Create /modify policy, goal, or	Modelly Prior 2.4.1 and £.2.5. Orlineach indicate removed terms and underlines indicate added terms.  Policy £2.4. Existing and proposed (#whitbathe areas of structures near the shoreline of the Dicta and in hood priore areas shall be locked above the highest state (revier expected during this did with projects. I and his of business prior and his of the projects in a final projects of the important for the projects for the projects by levers of an indiquate design.  Policy £2.6. Review from Gong policies and attendant geographic data in the General Plan fig. mild century and resid of the control plant in the general projects and the control plant in the general plant in t
water Resources	Precipitation Changes	Detention Basins	The City maturalise agreements! 110 miles of closed down down less and multiple detertion basies. The City dopes gradually to the Data with the highest points reserve the southern boundaries. = Medium Sensitively	Amerage procipation between 1683 to 1990 was 14 inches with a high of 28,7 inches and a low of 45 s. lined a low o	may require detention basins to raise the need for stormwater retention solutions. Dry detention basins may also increase the temperature of the stormwater they receive.	Based on the 1202 Callety General plan, detention beaus should be designed for meltiple uses such as part and playing first when our code for holding water, where possible, in addition, detention basin designs shall ensure that water entering the basin conflict completies which as specified term, but, making standing standing states or bring- stern states of the states. The states of the states of the states of the player terms states of the states. The states of the states of the states of the terms, as any destination may increase the temperature of the atomisator they recover, militageness for this include implementing design that would bear the destination time. Increase an animal terms of the destination basis will also be the pursual proper functionality and langestry of the basin. * Medium Adaptive Capacity	Take Action	Plan for inclusion in future CIPs	Traver that climate considerations are included in citing and designing decisions of major capital expenditures.

vitator Resources II	loading	Actention Basins	The City manutans approximately 110 miles of closed storm draw froe and multiple detention basis. The City closes gradually to the Delta with the highest points nearest the southern boundaries. • <b>Medium Sensibility</b>	flooding lis view han annualized frequency of GI overtis per year.  Flooding lis view has a moulized frequency of GI overtis per year.  Based on the City of Given frequency for general frequent but can range from low, moderate, and high severity = Low Probability	Contention business are designed to collect and store followhere which can in them be released educed seek that of the Contention that the contention that the contention that determine that coverfiew, impacts would not be at Chrystopes and the contention that determine that overfiew, impacts would not be at Chrystopes gradually to the Orita. = Low Magnitude  City stopes gradually to the Orita. = Low Magnitude	Based on the 2022 Calify General pass, detertion bases should be designed for multiple uses such a pairs and pulsy led feets when out used for finding sustre, where possible, in addition, desterior basis designs, half ensure that water entering the basis means that the second particular states of the second particular section of the particular section of the second particular section of the possible particular section of the second particular section of particular section of the second particular section of particular section of the section of the purposes of finding between size destination particular section purposes of finding control particular sections of purposes of finding control particular sections purposes of purposes of purposes purpose	Accept Risk		
Water Resources 5	Severe storms and extreme I	Actention Basins	The Coy manufacts approximately 110 miles of closed storm data in loss and multiple detention basis. The Coy of the Coy and the Coy of the Coy	Based on the FIFAN RHI, cotal events on record from source weather (e.g., hall) is 30 with an annualized frequency of 1.8 events per year. * Low Probability with an annualized frequency of 1.8 events per year. * Low Probability	Detection basish an designed to colora and stem followher which can them be released either on the risk of flooding by passed. Further, in which we released either the passed resulter is returned to the release of th	Based on the 2022 Calify General Jan., detertion basins, should be designed for midiglio uses such a pairs and pullying felds when on called for helding seture, where middling uses and a pairs and pullying felds when on called for helding seture, where suffere completely within a specified time; thue, minimizing standing water or log- cession of the seture of the seture of the seture of the seture of the seture seture standards within a specified time; thue, minimizing standing water or long- standards and seture of the seture of the seture of the seture of the seture specified by the seture of the seture of the seture of the seture of the seture of the seture of the seture of the seture of the seture of the seture of the seture of the seture of the seture of the seture of the seture of the seture of seture of set	Accept Risk		
Water Resources	remperature changes - I	Basins	Sensibility	The city of College could experience an average temperature of 77 of degrees dependent during the part 250 to 2004. Through on, the projection and originate to receive the a sin average maximum temperature of 81.3 degree sharehort. The since of the college co	may require detention basins to pains the need for stormwater retention continuous. By detention basins may also norrosse the temperature of the dominanted they receive. Another, with prehipidation changes, this may had be increased exceptional in supporting priors; as such, older detention basins only not be designed for larger and excaptables; then, in development, between, as the city slopes garbasily to the Delta, the risk of overflowing may be considered moderate. • Medium Magniflude	the stormwater they receive, mitigations for this include implementing designs that would lower the detention time. Increased animatenance of the detection basins will also help ensure proper functionality and longevity of the basin. = Medium Adaptive Capacity	Take Action	Plan for inclusion in future CIPs	foruse that climate considerations are included in citing and designing decisions of major capital expenditures.
	Widfre	Basins	the City manifest approximately 120 miles of closed atom disk in loss and multiple detention basins based on the Call'er New High First Hauser Service, New 1994/ERIS Juap, 2019 of Callois, General Pills, bases are no perceive within the City that are located in a VMHIXT on in any high moderate or other fire hazard events yours. The city is within the boundaries of critical fire weather close 3 which correlates to 9.5 more days per year of moderates, high, and extreme fire hazard = Low Sensibility	Based on the FIFAN RII, total events on record from wildfire is not applicable with an annualized frequency of be event per year.  Based on the City of Calaby Emergency Operations Flav, wildland fires are infrequent with moderate soverity = Low Probability	channels can be impacted by excavation and cleaning schedules. Further, water that woold committed by low into the detections have been been proportionally as an advantage of the committee of t	Based on the 2022 Caskiny General plan, detection basins should be designed for mitigalise uses such a pairs and pulling feets when or used for footing sures, when mitigalise uses with a pairs and pulling feets when or used for footing sures, when sufficer completely within a specified larve; thus, minimizing standing water of long- terms staturation, which he basin.  Further, at 4th yield state of the sure three heads may increase the temperature of the attention of the sure of the sure of the sure of the sures of the sures of the destromator they work, minigations for this role designation species that would lower the detection time. Increased maintenance of the detection basins will shall be also many proper functionality and longevity of the basin - Medium Adaptive Capacity	Accept Risk		
	Sea Level Rise	Netention Basins	lopes gradually to the Deta with the highest points nearest the southern boundaries. • Low Sensibility	Based on the FEMA NRI, total events on record from sea level rine is not applicable with an annualized frequency of 0.0 events per year. = Low Probability	With a 12-Mo. 13.4 centre and 100-yr from event, the shoreline area is amorphised to expense the 3.6 instanction at a least of 2 to 4.6 inches the management of several or 2 to 4.6 inches the several or 3.6 inches the several or 3.0 inches the several or 3.6 inches the several	Based on the 2022 Calify General Jan., detertion basins, should be designed for midigle uses such a pairs and pullying felds when on used for footding users, when pairs and pullying felds when not used for footding users, when pairs are pairs and pairs of the pairs and pairs	Accept Risk		
Water Resources 6	Precipitation Changes	Jandal-Bold Water Treatment	further water is treated at the water treatment plant (VPT) which was designed for an initial capacity of 80 million gallons per day with the capability to equal to 80 million gallons per day of WPT expectly allocated to the Capability search to 80 million gallons per day of WPT expectly allocated to the Capability allocated to the Capability with the remaining capacity allocated to the Contra Coda solicity (CMO). — Low Yestellinity	Average precipitation between 1951 to 1950 was it index with high of 38,7 inches and and low of 4.5 finder, and an all one of 4.5 finder and a size of 4.5 finder and	Reduced process efficiency vary lead to reduced water quality, thus, can lead to reduced water which can lead to reduced water flow can lead to reduced water which can lead to reduced water which can lead to reduce water with can lead to reduce water water flowers of the reduced process of the red	Owigh standards and mightermetation of innovative process retrainment could be implemented to have increased water from each to the him creased programs including an increased water from each to the him creased programs inchanged. This may cost large economic investments, time, and designs, = Low Adaptive Case/My	Take Action	Plan for inclusion in future CIPs	Tower that climate considerations are included in citing and designing decisions of major capital expenditures.
Noter Resources	looding	Jandall-Bold Water Treatment Kant	further extent is treated at the water treatment plant (PTP) which was designed for an intelligent plant (party of dot) intelligent plant plant (party of plant) and the plant (party of plant) plant (party of plant) plant (party of plant) plant (party of plant) plant (party of plant) plant (party of plant) plant (party of plant) plant (party of plant) plant (party of plant) plant (party of plant) plant (party of plant) plant (party of plant) plant (party of plant) plant (party	Based on the PIMA hall, nutil event on except flower some venture fleg. Prevente flooding) is 2 with A singuistic floquency of preventing the prevention of the Based on the City of Califury Emergency Operations Flash, floods are infrequent but can range from low, moderate, and high severity + tow Probability	increasing process efficiency may lead to reduced water quality, thus, can lead to reduced water quality, thus, can lead to residence with can lead to reduce the can lead to require the can lead to reduce the paint may not be supposed for the antiopself bend capacity. The magnitude of impact procipations to water infrastructure florases connected upones efficiency and operational context. As there is a high probability of increased procipations, changes affecting water improperly, thus, impacting the subjects listed above. Further, the initial plant cost in \$100 and \$100 are the \$100 are to \$100 are the \$100 are the \$100 are to \$100 are to \$100 are the \$100 are to \$100 are the \$100 are to \$100 are the \$100 are t	Doign standers and implementation of innovative process returnment could be implemented to have invested on the country of the	Accept Risk		

Marian Programme	F	Daniell Bald Mater Tours	The second state of the se	Bood on the FFEEA NEW total control of the control		Notice that day and lead and the day of the artists and the			
Water Resources  Water Resources	weather	Randall-Bold Water Treatment Plant	Surface water interested at this water restained plant (NPT) which was designed for an initial capacity of 60 million plants per day with the capability to equal to 50 mgs. Appointments 30 percent of the WTM, is allocated to the Diable Water Classics (DWD), with the remaining capacity allocated to the Contra Costa Water Classics (CWW) = Law Sensibility		are journ to we designed or the astropation tools capture. The magnitude of import proposition to waster districturate focuses on reduced process efficiency and operational costs. As there is a high probability of increasing propositions changes inferring water or personalizing of increasing propositions changes inferring water or personalized processing the subjects tested referring water for costs in high principal costs in high principal costs and the proposition of the propositio	Coops at Sandards and Implementation of innovative process treatments could be implemented to handle increased water from some to the severe storms and estimate excellent. This may cook large economic investments, time, and designs – Low Adaptive Capacity	Accept Risk		Finance that climate considerations are included in crimp and designing discisions of major
Water Nesburces	Temperature changes - warming	Handail-Bold Water Treatment Plant	Further water in framed at this water treatment plant (WTP) which was designed for an initial capacity of 40 initialization policies per day of the capability to equal to 50 ingl. 46 popularity 30 percent of the WTP capacity is allocated to the Diable Virsier Entiric (DIVD), with the remaining capacity allocated to the Contra Costa Notice District (CIVD) = Law Sensibility	The city of Collect could experience an average temperature of 7 of degrees fortherested early the year 205 to 2016. The 2009, the projection is anticipated to increase be an average maximum temperature of 8.1.3 degrees [Astronéest. The collection of the 2016 to 2016		innocative treatment processes cuts at themoregulatory devoce, effluent cooling youten, thermally state op lowner commissions, gate that exchange, and held and fulls be but exchangers. These processes may be coolly and time consuming, = tow Adaptive Capacity	Take Action	Plan for inclusion in future CIPs	estude that committee considerations are included in cating and designing decisions or major capital expenditures.
Water Resources	Wildfire	Randall-Bold Water Treatment Plant	Surface water instead at this water restrained plant (MYT) which was designed from an intelligent plant of part of the capability to enable to flow got, a popularity 30 percent of the WTD), and increase to the Diable Water Descript (DWD), with the remaining capacity allocated to the Contra Costa Water Descript (DWD), with the remaining capacity allocated to the Contra Costa Water Descript (DWD), with the remaining capacity allocated on the Contra Costa water Descript (DWD), which was the Costa Water Descript (DWD). The Costa Water Descript (DWD) was the Costa Water Descript (DWD) was the Costa Water Descript (DWD). The Costa Water Descript (DWD) was the Costa Water Descript (DWD) was the Costa Water Descript (DWD). The Costa Water Descript (DWD) was the Costa Water Descript (DWD) was the Costa Water Descript (DWD) was the Costa Water Descript (DWD).	Based on the FIRA NRI, total events on encord from wildfire is not applicable with an annualized frequency of the event per year.  Based on the City of Caskey Emergency Operations Plan, wildfand fires are infrequent with moderate seventy. * Low Probability	Debts (pool from welfers may compromise treatment of water and expedited filler detertion in water treatment processes. Further, compromised treatment of water may impact outflow of water which may contrained groundware audients and deathy water systems which may contamined groundware audients and deathy waters, However, or parents with the City that are located in a VMMPED and in any high moderate or other file hazard sevently some. *Low Magathade*	inflastrations improvement for the just may be implemented to combat wildfire risk such a stronger method choice (e.g. nonlimenship) and advanced restrict processes. Advanced water treatment processes that can help with wildfire include confidence traps and destrict booms, seldment restriction basies, containment biggoon, and head resident pipes to name a few Low Adaptive Capacity	Accept Risk		
Water Resources	Sea Level Rise	Randall-Bold Water Treatment Mant	Surface useful in Treated at this water treatment plant (WTP) which was engaged for an initial capacity of 60 million policies per dry the Equation (see 100 million policies) and publish or capacity and expenditure of the Contract (DIVID), with the remaining capacity allocated to the Contra Costa Motion Costan (CCVIDI) - Law Sensibility	Based on the FEMA NRI, total events on record from sea level rine is not applicable with an annualized frequency of 0.0 events per year: <b>- Low Probability</b>	With a 12-with SIR scenario and IDD yet storm event, the shoreline area is anticipated to experience \$R\$ invanctions at a leaf or \$2 - 48 s-fixed by and contain, \$5 - 40 services the sevently of costal excela- riors as selection contains in the similar area is suspected to potential excella- tions and the services are selected to the services and the services are subscribed and first attracture and loss of fixed mass; thus, causing a significant exconnectification of the regions theorem, as the plant is not located near the shoreline, the magnitude of impacts would be low. • Low Magnitude.	Not applicable a plant is not located near the shoreline. Some measures for caseful glants include armoring, moving, or elevating plants.	Accept Risk		
Nater Resources	Precipitation Changes	Levees	lowers are located throughout the city of Coloky with primary areas being along the Contra Cota Canal, Deta- Recreation areas, and near Summer Lake. • Medium Sensitivity	Average procipitation between 1981 to 1990 was 34 inches with a high of 28.7 inches and a low of 4.5 further, and a low of 6.5 further seems (eighty to 5.4 further 1987 to 1997). The control of 1997 to 1997 t	Anapotation changes can adversarly impact the stability of televes in terms of the structural implace, and centroping, response, centroping of the invene would cause the lave to weakers and overstaally give away. Seepge of the levers would define excessive water supple personal the sleves, and the levers would extend excessive water supple personal the sleves, lever, and the leverstand of the leverstand excessive water supplementation of the leverstand excessive seems. As there are increased precipitation changes for Callery, the magnitude of these impacts would be moderate. * Medium Magnitude	Seared on the Colleky HIMP, new levers and pump stations will be built according to TEARA publishine, in comprision with the Rechardson Distract. The project duration is imported with a high estimated cost and high implementation priority. Potential funding importance are privately imported from, the project was inflorated in 20th and other with mission and project and project and project was included in 20th and other with Medium Adaptive Capacity!  Medium Adaptive Capacity!  Medium Adaptive Capacity  Provision of adequate filed projection will likely require a combination of projection of adequate flood protection will likely require a combination of particular control of the compression of the compression of particular control of	Take Action	Plan for inclusion in future CIPs	frame that climate considerations are included in criting and designing discisions of major capital expenditures.
water Resources	Recoding	Levees	series are knoted throughout the day of Oakley with primary pares laving sling the Cortic Goals Could, Uses of Morestration seas, and for serious cases, cases of the Cortica Goals Could, Uses of Could Cou	Based on the FITAN MIL joid event on record from sovere weather (e.g., hereine foodings) is with an analysised frequency of D event pay year. Under 100 year flood conditions, it is indicipated the March creat would believe by the recording of the March Conditions of	many loves are located near well rodies, the magnitude of these reports would be high. = High Magnitude	sources are privatelyton-profit shock. This project was initiated in 2018 and before with file Cylif Collady hybric Works and Englement pleopartment as the daggers, a Medium Auspher Capacity Provision of Adaquatic Mode protection will likely require a combination of improvement of Marin Cresh basis and levees, as well as a pump facility to discharge wester Toward the Collin State of Collins and College and Collins and College short Toward the Collins of Collins and Collins an	Take Action	Plan for inclusion in future CIPs	Framer that climits considerations are included in oting and designing discusse of major capital expenditures.
Water Resources	Severe storms and extreme weather	Lewes	Recreation areas, and next Semmer Last. Leves of the Contra Costs Canish provides some protection against Children Contract Contract Costs and Costs	Based on the FRIAM MIT, total events on record from severe weather (e.g. half) is 30 with an annualised frequency of 1.8 events provided to 1.8 several provided to 1.8 sever	many leves are located near water loadies, the magnitude of these reports would be high. = High Magnitude	based on the Clakey HMT, new levers and pump stations will be bull according to TEAR publishers, conclusion with the Referencies Districts. The project claration is organize with a high estimated cost and high implementation priority, Potential burding the Chicago of the C	Take Action	Plan for inclusion in future CIPs	Traver that climate considerations are included in criting and designing decisions of major capital expenditures.
Water Resources	Temperature changes - warming	Leves	lowers are located throughout the city of Calaky with primary axes being along the Contra Catal Canal, Deta- Recreation areas, and near Summer Lake Low Sensibility	The city of Collect could experience an average temperature of 7 of degrees. Advanced temperature 2015 to 2016. Through 0th, the projection antidipotent to increase is an average maximum temperature of 91.1 degrees. Patrimeter. The state of the collection of the collection of 91.1 degrees of 91.1 deg	moderate. = Medium Magnitude	Based on the Colley Info.P., ever leveres and pump stations with the buff according to The Rubpideline, in conjunction with the Rechargion Districts. The project outsrion is organized with a high estimated cost and high implementation priority. Peterdinal funding the College of the Rubpideline of the Rubpideline of the Rubpideline of the Rubpideline with Rubpideline of Rubpideline of the Rubpideline of the Rubpideline of the Rubpideline of Providerial Adequates the projection will talk prequire a combination of improvement of March Creek basels and levere, as well as a pump facility to discharge with remarking the Rubpideline of the Rubpideline of the Rubpideline of based on the Rubpideline of Rubpideline of the Rubpideline of the Rubpideline of Rubpideline of Rubpideline of the Rubpideline of the Rubpideline of Rubpideline of the Rubpideline	Take Action	Plan for inclusion in furture CIPs	Trover that climate considerations are included in criting and designing decisions of major capital expenditures.

	and the		Levees are located throughout the city of Oakley with primary areas being along the Contra Costa Canal, Delta						
Water Resources	Wildfire	Levees	Levees are located throughout the city of Oakley with primary areas being along the Contra Costa Canal, Delta Recreation areas, and near Summer Lake. = Medium Sensitivity	annualized frequency of 0.0 events per year.	As no parcels within the city are located in a VHFHSZ or in any high moderate/other fire hazard severity zones, the magnitude of impacts may not be detrimental. = Low Magnitude	New levees and pump stations will be built according to FEMA guidelines, in conjunction with the Reclamation Districts. This project duration is ongoing with a high estimated cost and high implementation priority High Adaptive Capacity			
				Based on the City of Oakley Emergency Operations Plan, wildland fires are infrequent with moderate severity. = Low Probability		Provision of adequate flood protection will likely require a combination of			
						improvements of Marsh Creek banks and levees, as well as a pump facility to discharge water toward the Delta.	Accept Risk		
						Based on the 2022 Oakley General Plan, the improvement of existing levees within the City are anticipated as well as (when appropriate), compliance and certification from the			
						United States Army Corps of Engineers.			
Water Resources	Sea Level Rise	Levees	Levees are located throughout the city of Oakley with primary areas being along the Contra Costa Canal, Delta Recreation areas, and near Summer Lake. Existing levee along East Cypress Road & Bethel Island Road protects	Based on the FEMA NRI, total events on record from sea level rise is not applicable with an annualized frequency of 0.0 events per year. = Low Probability	With a 12-inch SLR scenario and 100-yr storm event, the shoreline area is anticipated to experience SLR inundation at a depth of 2- to 45-inches by	Based on the Oakley HMP, new levees and pump stations will be built according to FEMA guidelines, in conjunction with the Reclamation Districts. This project duration is			
			the residential development of Summer lake; however, with extreme conditions, residential development along Sand mound Boulevard and East Cypress Road are anticipated to face inundation. = Medium Sensitivity	,	mid contuny. See level rice would increase the coverity of coartal eroring	angular with a bish artimated cost and bish implementation priority. Betantial funding			
			and model bodiese a mid but cypress road are anacepted to race mandators medium sensitivity		rise, more area is susceptible to potential erosion, or in some cases accretion. This could also lead to costly impacts on residential, recreational,	sources are private/non-profit funds. This project was initiated in 2018 and before with the City of Oakley Public Works and Engineering Department as the lead agency. = High Adaptive Capacity	Accept Risk		
					and agricultural structures and infrastructure and loss of land mass; thus,	August Capacity			
Buildings & Energy	Precipitation Changes	Educational Facilities	The City of Oakley has three main school districts: Oakley Union Elementary School District (9 schools), Antioch Unified School District (3 schools), and Liberty Union High School District (1 school). = Low Sensitivity	Average precipitation between 1951 to 1990 was 14 inches with a high of 28.7 inches and a low of 4.5 inches.	causing a significant economic impact on the region. = Medium Maenitude. The expected annual loss for buildings due to precipitation changes (e.g. drought) is \$426.670 with a expected annual FEMA NRI loss score of 77.7.	Based on the Oakley HMP, a new library and community center facility will be constructed to serve as the primary Emergency Operations Center (EOC), space for			Ensure that climate considerations are included in citing and designing decisions of major capital expenditures.
			,	It is projected that average precipitation from 2035 to 2064 will increase to 15.0 inches	(relatively high). = High Magnitude	weteran, seniors and children, and serve as a warming/cooling center and possible shelter. This project duration is anticipated to be short; however, with a high cost and			
				and would increase slightly to 16.4 inches in 2070 to 2099.		high implementation priority. This project would be a new project for initiation in 2024 and is funded by local budgeted funds, HMGP, BRIC, FMA, and other. = <b>Medium</b>			
				Based on the FEMA NRI, total events on record from precipitation changes (e.g. drought) is 1,358 with an annualized frequency of 61.7 events per year.		Adaptive Capacity	Take Action	Plan for inclusion in future CIPs	
				= Medium Probability					
				- medium Probability					
Buildings & Energy F	Flooding	Educational Facilities	The City of Oakley has three main school districts: Oakley Union Elementary School District (9 schools), Antioch Unified School District (3 schools), and Liberty Union High School District (3 school), = Low Sensitivity	Based on the FEMA NRI, total events on record from severe weather (e.g. riverine flooding) is 2 with an annualized frequency of 0.0 events per year.	riverine flooding) is \$104.458 with a expected annual FFMA NRI loss score	A new library and community center facility will be constructed to serve as the primary Emergency Operations Center (FOC) space for veteran seniors and children and serve			
			,	Based on the City of Oakley Emergency Operations Plan, floods are infrequent but can	of 51.8 (relatively moderate). = Medium Magnitude	Emergency Operations Center (EOC), space for veteran, seniors and children, and serve as a warming/cooling center and possible shelter. This project duration is anticipated to be short; however, with a high cost and high implementation priority. = Medium			
				range from low, moderate, and high severity. = Low Probability		Adaptive Capacity	Accept Risk		
Buildings & Energy S	Severe storms and extreme	Educational Facilities	The City of Oakley has three main school districts: Oakley Union Elementary School District (9 schools), Antioch	Based on the FEMA NRI, total events on record from severe weather (e.g. hall) is 30	The expected annual loss for buildings due to severe storms (e.g. hail) is \$335 with a expected annual FEMA NRI loss score of 30.4 (relatively low). =	A new library and community center facility will be constructed to serve as the primary Emergency Operations Center (EOC), space for veteran, seniors and children, and serve			
	weather		Unified School District (3 schools), and Liberty Union High School District (1 school). = Low Sensitivity	with an annualized frequency of 1.8 events per year. = Low Probability	\$335 with a expected annual FEMA NRI loss score of 30.4 (relatively low). = Low Magnitude	as a warming/cooling center and possible shelter. This project duration is anticipated to			
						be short; however, with a high cost and high implementation priority. = Medium Adaptive Capacity	Accept Risk		
Buildings & Energy	Femperature changes -	Educational Facilities	The City of Oakley has three main school districts: Oakley Union Elementary School District (9 schools), Antioch	The city of Oakley could experience an average temperature of 77.9 degrees	The expected annual loss for buildings due to severe weather (e.g. heat	A new library and community center facility will be constructed to serve as the primary			
	warming		Unified School District (3 schools), and Liberty Union High School District (1 school). = Low Sensitivity	Fahrenheit during the years 2035 to 2064. Through 2099, this projection is anticipated to increase to an average maximum temperature of 81.3 degrees Fahrenheit. The	wave) is \$15,350 with a expected annual FEMA NRI loss score of 62.2 (relatively high). = <b>High Magnitude</b>	Emergency Operations Center (EOC), space for veteran, seniors and children, and serve as a warming/cooling center and possible shelter. This project duration is anticipated to			
				average number of extreme heat days recorded for the City in the years 1961 to 1990 was four days per year.		be short; however, with a high cost and high implementation priority. = Medium Adaptive Capacity			
				In the years 2035 to 2064, the city is projected to experience 11 to 31 additional					
				in the years 2005 to 2004, the try is projected to experience 11 to 51 additional extreme heart days per year. Further, models predict the number of extreme heat days in the city may rise to 33 days per year in the 2070 to 2099 timeline. = Medium			Accept Risk		
				Probability					
				Based on the FEMA NRI, total events on record from severe weather (e.g. heat wave) is 0.0 with an annualized frequency of 0.0 events per year.					
Buildings & Energy	Wildfire	Educational Facilities	The City of Oakley has three main school districts: Oakley Union Elementary School District (9 schools), Antioch Unified School District (3 schools), and Ulberty Union High School District (1 school).	Based on the FEMA NRI, total events on record from wildfire is not applicable with an annualized frequency of 0.0 events per year.	The expected annual loss for buildings due to wildfire is \$1,743 with a expected annual FEMA NRI loss score of 27.6 (relatively low). = Low	A new library and community center facility will be constructed to serve as the primary Emergency Operations Center (EOC), space for veteran, seniors and children, and serve			
			Based on the CalFire Very High Fire Hazard Severity Zone (VHFHSZ) Map and City of Oakley General Plan, there		Magnitude	changing Copin atoms Center (ECC), space for event all, seniors and children, and sever as a warming/cooling center and possible shelter. This project duration is anticipated to be short; however, with a high cost and high implementation priority. = <b>Medium</b>			
			based on the Carrier very right rise analist severity zone (verense) map and city or cancey General main, there are no parcell within the City that are located in a VHFHSZ nor in any high moderate or other fire hazard severity zone.	with moderate severity. = Low Probability		Adaptive Capacity			
			The city is within the boundaries of critical fire weather class 3 which correlates to 9.5 more days per year of				Accept Risk		
			moderate, high, and extreme fire hazard. = Low Sensitivity						
Buildings & Energy	Sea Level Rise	Educational Facilities	The City of Oakley has three main school districts: Oakley Union Elementary School District (9 schools), Antioch Unified School District (3 schools), and Liberty Union High School District (1 school). Schools are not located in	Based on the FEMA NRI, total events on record from sea level rise is not applicable with an annualized frequency of 0.0 events per year. = Low Probability	With a 12-inch SLR scenario and 100-yr storm event, the shoreline area is anticipated to experience SLR inundation at a depth of 2- to 45-inches by	Freedom High School contains communication facilities for emergencies (critical infrastructure). A new library and community center facility will be constructed to serve as the primary Emergency Operations Center (EOC), space for veteran, seniors and			
			SLR inundation zones, however, temporary flooding may disrupt learning progress. = Low Sensitivity						
					or in some cases accretion. This could also lead to costly impacts on structures and infrastructure and loss of land mass; thus, causing a	duration is anticipated to be short; however, with a high cost and high implementation priority. = Medium Adaptive Capacity	Accept Risk		
					significant economic impact on the region. = Medium Magnitude				
Buildings & Energy	Precipitation Changes	ounces	Based on the 2022 Oakley General Plan, major utility energy areas are located on the northwest boundary of Oakley near the intersection of the CA-160 highway and Main Street. = Low Sensitivity	Average precipitation between 1961 to 1990 was 14 inches with a high of 28.7 inches and a low of 4.5 inches.	Precipitation changes can impact utilities in terms of storm damage to utility infrastructure, hydroelectrical power loads, etc. As one of Oakley's	Common measures for utilities to combat precipitation changes include building flood barriers, elevating utility equipment, or relocating facilities (e.g., facilities) to higher eround. – Medium Adattive Capacity			Ensure that climate considerations are included in citing and designing decisions of major capital expenditures.
				It is projected that average precipitation from 2035 to 2064 will increase to 15.0 inches and would increase slightly to 16.4 inches in 2070 to 2099.	utility provider is the Pacific Gas and Electric Company (PG&E), they may experience changes to their hydroelectrical energy production due to precipitation changes. However, as the average precipitation from 2035 to	ground medium Adaptive Capacity			
					2064 will increase to 15.0 inches and would increase to 16.4 inches in 2020.		Take Action	Plan for inclusion in future CIPs	
				Based on the FEMA NRI, total events on record from precipitation changes (e.g. drought) is 1,358 with an annualized frequency of 61.7 events per year.	to 2099, it is likely the hydroelectrical energy production would not be negatively impacted. Other utility infrastructure such as electrical lines,		Take Action	or inclusion in ruture CIPS	
				= Medium Probability	pipelines, substations, etc may face structural damage though. = Medium Magnitude				
Buildings & Energy F	Flooding	Utilities	Based on the 2022 Galdey General Plan, major utility energy areas are located on the northwest boundary of Oakley near the intersection of the CA-160 highway and Main Street. = Low Sensitivity	Based on the FEMA NRI, total events on record from severe weather (e.g. riverine flooding) is 2 with an annualized frequency of 0.0 events per year.	Flooding can impact utilities in terms of storm damage to utility infrastructure, hydroelectrical power loads, etc. As one of Oakley's utility	Common measures for utilities to combat flooding include building flood barriers, elevate utility equipment, or relocating facilities (e.g., facilities) to higher ground. =			
				Based on the City of Oakley Emergency Operations Plan, floods are infrequent but can	provider is the Pacific Gas and Electric Company (PG&E), they may experience changes to their hydroelectrical energy production. However,	Medium Adaptive Capacity			
				range from low, moderate, and high severity. = Low Probability	Oakley does not have any hydroelectrical facilities at this time.				
					Other utility infrastructure such as electrical lines, pipelines, substations as zoned in the 2022 Oakley General Plan are not on a 100-year or 500 year		Accept Risk		
					flood zone. = Low Magnitude				
Buildings & Energy	Severe storms and extreme weather	Utilities	Based on the 2022 Oakley General Plan, major utility energy areas are located on the northwest boundary of Oakley near the intersection of the CA-160 highway and Main Street.	Based on the FEMA NRI, total events on record from severe weather (e.g. hail) is 30 with an annualized frequency of 1.8 events per year. = Low Probability	Severe storms and extreme weather can impact utilities in terms of storm damage to utility infrastructure, hydroelectrical power loads, etc. As one of	Common measures for utilities to severe storm and extreme weather include building flood barriers, elevate utility equipment, or relocating facilities (e.g., facilities) to higher			
			Leevee breaches or roadway washouts could impact underground utilities along bridgehead road.		they may experience changes to their hydroelectrical energy production.	flood barriers, elevate utility equipment, or relocating facilities (e.g., facilities) to higher ground. = Medium Adaptive Capacity			
			Total developed utilities energy area in the city is 4.6 acres. = Low Sensitivity		However, Oakley does not have any hydroelectrical facilities at this time.				
					Other utility infrastructure such as electrical lines, pipelines, substations as zoned in the 2022 Oakley General Plan are not on a 100-year or 500 year		Accept Risk		
					flood zone.= Low Magnitude				
			· · · · · · · · · · · · · · · · · · ·	·					· · · · · · · · · · · · · · · · · · ·

ouldings & Energy  Buildings & Energy	Temperature changes - warming	DERIFIES	Seed on the 2022 Collecy General Plan, major utility energy areas are located on the northwest boundary of Children and the internation of the CALS Objection and Man Street. • Low Seculibrity Total developed utilities energy area in the city is 4.6 acres.	The city of Goldey could experience as average temperature of 7.9 degrees. Advanced acting the year 205.50 2045. The 2009, this projection is anticipated to increase be an average maximum temperature of 8.13 degrees. Fairment. The average number of extensive heat city recrease for the City in the year 1981 to 1950 and flow days per year.  In this year 2015 to 2054, the city is projected to experience 110 s1 additional estimates that days returned to the year 2015 to 2054, the city is projected to experience 110 s1 additional estimates that days the year 2018 to 2054, the city is projected to experience 110 s1 additional estimates that days the year 2018 to 2054, the city is projected to experience 110 s1 additional estimates that days the years of 10 add years years that 2019 to 2059 timelines. Medium Productions of the City and years of years years are 2019 to 2059 timelines. Additional reduction of the 2019 to 2059 timelines. Additional violence of 2019 timelines. Additional violence in the 2019	residential, commercia, and industrial facilities. At the city if projected to enginence 13.13 addinand activem bear days year in 20% to 1004, the magnitude of these impacts is moderate Medium Magnitude of the magnitude of these impacts is moderate Medium Magnitude	Common measures for utilities to combat writing not raise include although best exchanges, montaining, whatever, and encouraging abolic assumences for high energy usage during hortiser days Medium Adaptive Capacity	Take Action	Plan for inclusion in future CIPs	Source that climate considerations are included in othing and designing decisions of major capital expenditures.
			Dately near the interaction of the CA-160 highway and Main Street. Total developed utilities energy area in the city is 4.8 acres.  Based on the Califier Very High Fire Hazard Seventy Zone (VHRHCZ) Map and City of Calley General Plan, there are no proteins within the City that are becaused in a VHRHCZ on in any high moderate or other fire hazard energy Zone.  The city is within the bondwises of critical five weather class 3 which correlates to 9.5 mone days per year of moderate, high, and moment for hazard Level Sensibility.	annualmed frequency of 0.0 events per year.  Based on the City of Clukley Emergency Operations Plan, wildland fires are infrequent with moderate severify. = Low Probability	Infrastructure, disrupting power service, and may potentially lead to severe financial distress. Nower are no practice within the Citylah at each located in a VMFHSZ nor in any high moderate or other fire hazard severity zone, the magnitude of impacts are low. = Low Magnitude	shaloff where PGEC could practicely turn off power when and where conditions present an increased will offer risk. = Medium Adaptive Capacity	Accept Risk		
Buildings & Energy	Sea Level Rise	Unitities	Dakley near the Interaction of the CA-LSD highway and Main Street. Total developed utilities energy area in the city is 4.6 acres. + Low Sensibility	Stand on the FEMA RM, total events on record from sea level rise is not againstake with an annualized frequency of 0.0 events, per year - Low Probability	antiopated to experience \$18 in handstoon at a depth of 2 to 65 schede by mid ordinary, \$4 seek level would become the receiptive of costall encoder. As as levice continue to rise, more area is susceptible to potential encode, or as more cases accretion. The code disclose less cooking impacts on or some cases accretion. The code disclose less cooking impacts on the major continues accretion. The code disclose less cooking impacts on the major continues accretion and the code of the	Here levers and pump stations will be built according for TRAM paletaines, in conjunction with the Recissional Context. This popied various to people with a high estimated with the Recissional Context. This popied various coping with a high estimated cost and high implementation priority = "Nigh" Adaptive Capacity.	Accept Risk		
nuidings & Energy	Procipitation Changes	Residential	Total area of modernation in the city is 49.3 across which consists of 25.65 developed across and 2006.1 Monotonebeloped across and the city across across and 25.25 across across and 25.25 developed across and across and 25.25 developed across acros	Average procipitation between 1981 to 1990 was it inches with higher 2027 inches, and as low of 4.5 Inches and as low of 4.5 Inches and as low of 4.5 Inches 1982 to 2054 will increase to 13.0 inches and wooded increase see gripping to 16.4 Inches in 2004 2009.  Based on the FETAN RIII, local events on record from procipitation changes (e.g. drought) is 1.338 with an annualized frequency of 6.1.7 events par year.  - Medium Probability	The expected annual can for building due to precipitation changes (e.g., expected annual can be building and the precipitation of the	Residential accuse may also be recounted to combat proceptation obegan for instance, obtained to the combat process of the combat p	Take Action	Create /modify policy, goal, or ordinance	
Auding & Energy	Proofing	Mesidental American	under developed acros. Total area of the visiodential is 64.73 area which consists of 28.70 developed developed acros. Total area from the respective properties of 12.72 area which consists of 28.70 developed developed acros. For the respective properties of 12.72 area which consists of 28.70 area which c	Based on the FEMA MII, total events on encord from severe weather lie, a reterment fooding lie z with an assistant frequency of pervise per year. Based on the City of Calaby Emergency Operations Plan, floods are infrequent but can care from low, moderate, and high severity; + Low Prebability	The experted answer loss for hability gold set to precipitation changes (e.g., inventive filocoling) is 2014-88 with an appeach and ITEM NRI loss score of \$1.10 (relatively moderate). * Medium Magnitude	A number of retainings basins also detain stommenter and number for the purposes of the food control. These basins are included in one recitional modelscores to the eastern the control of the Control	Talle Action	Coordinate with other agencies	Coolina or Initiate conditation with agencies used as, but on limited to Contro Coals Country Copyrishmed Consecution and Developers, Contro Coals selection, Contro Coals selection, Contro Coals Coals Country Office of the Special Coals of Coals Country Clinic Children Corpus, Coats Coals Country Office of the Sheriff.
auidings & Lorgy	Severe storms and extreme weather	Residential	Total area of rural involvemental in the Girly in 48.3 across which consists of 28.58 developed across and 28.61.  The developed across and consists of the consists of 28.60 developed across and 28.61.  The developed across and 28.61 across acros	With a 100-year storm event, shorehold infrastructure is anticipated to be overtopped and included residence immunofing Delanky in continuous expensive sections. As a second of the FERAL RRI, post events on record from severe weather (e.g., half) is 30 with an annualized frequency of 1.8 events per year Lew Probability	The expected annual first for buildings due to severe shorms (e.g., hull) in SSS with a expected annual FEMA NRI loss score of 30.4 (institutely lose), a low Magnitude	Residential ausst anny also be renouelled to conhait froods. For instance, structural drusges that my jocked more double materials before residant, mold resistant, etc.] and upgraded drussage systems. • Medium Adaptive Capacity	Accept Risk		

Buildings & Energy	Temperature changes - warming	Residential	Total area of rural residential in the city is 493.9 acres which consists of 285.8 developed acres and 208.1 underdeveloped acres. Total area of low residential is 648.7 acres which consists of 287.0 developed acres and 361.7 underdeveloped acres. Total area of medium residential is 171.7 acres which consists of 193.5 developed	The city of Oakley could experience an average temperature of 77.9 degrees Fahrenheit during the years 2035 to 2064. Through 2099, this projection is anticipate to increase to an average maximum temperature of 81.3 degrees Fahrenheit. The	With an increase in extreme days, this may also correlate with an overall excrease in temperature; thus, enotible communities such as persons with introduced integrations of continuous processing and the continuous and the			Create new policies regarding existing and proposed residential building standards to combat climate-induced impacts.
			sors as till 52 underdevrlipped acres. Foldal mar of high residential 5:05 acres which consists of \$4 severed everyold acres and \$2 underdeveloped acres and \$2 underdeveloped acres and \$2 underdeveloped acres and trail are of residential models behaves is \$4.1 developed acres and underdeveloped acres.  A solid acres and acres and underdeveloped acres. A solid acres and underdeveloped acres and underdeveloped acres and underdeveloped acres.  A solid acres acr	average number of extreme heat days recorded for the City in they years 1961 to 1976 was food day per year. See You do not not not not not not not not not no	to a groter relance on high energy demand electrical equipment, increased used of these planes general energial equipment may put, ordine to the California state power grid, thus, increase the rink of blackoot electric.  The expected annual loss for buildings dust to severe weather (e.g., beat week) e \$55,550 with perspected annual TEMA NRI loss score of \$2.2 (relatively high) High Magnitude	Take Action	Create /modify policy, goal, or ordinance	
Buildings & Energy	Widfre	Residential	Total area of router insidential in the City 14 933 acres which consists of 2153 developed acres and 2016. I and developed acres and control acres acres and control acres and control acres and control acres and control acres acres and control acres acres and cont	Based on the FIRA RRI, tast events or record from wildfire is not applicable with an encounted frequency of Devets per year.  Based on the City of Childry Emergency Operations Plan, wildfand fires are infrequent with moderate severity. + Low Probability	The expected annual for for buildings due to wild'ire is \$1,743 with a expected annual FEMA RRI loss score of 2.7.6 (evisitively loss) = Law Magnitude  Magnitude  Research of the expected annual FEMA RRI loss score of 2.7.6 (evisitively loss) = Law annual FEMA RRI loss score o	Accept Risk		
Burklings & Energy	Soa Level Rice	Readerstal	Total and or fund residential in the City 4, 693 Acres which consists of 218.6 developed acres and 2081, and anderdeveloped acres and the control residential in 18.6 acres which consists of 21.0 developed acres and 18.1 acres which consists of 21.0 developed acres and 18.1 acres which consists of 21.0 developed acres and 18.1 acres which consists of 21.0 developed acres and 18.3 developed acres and 41.3 developed acres and 41.3 developed acres and 41.4 developed acres and underdeveloped acres acre	Based on the FTMA RIK, total events on record from sea level rive in not applicable with an annualized frequency of O.D events per year Low Probability	with a 12 with 18.4 centre and 150 yr attern event, the shoreher are at a misciplated to expender the fill mindler and 1 set of 2.0 % shoreher by a misciplated to expender the fill mindler and 1 set of 2.0 % shoreher by an electronic save fill mindler and 1 set of 2.0 % shoreher by an electronic save fill mindler shoreher of training, considerable services and the shoreher of training shoreher of the shoreher of training shoreher of the shore	Tale Action	Plan for inclusion in future CIPs	Source that climate considerations are included in citing and designing decisions of migoricipatal expenditures.
Economic Development	Precipitation Changes	Commercial designations	Based on the 2022 Calling General Plan, major commercial prize as in in eastern county just cent for Main Secret. The Intersection Services Laurel Road of Divide Alexeus, and the Intersection between Coulties Road and Empire Nervous. Further areas zoned as business parks are primarily located within the Data Recreation eners Medium Scenationy	Average procipation between 1981 to 1990 was a linder with a high of 28.7 neches and a low of 4.5 faither and 19.5 faither and 1	Bus, decreasing the floor of focuses the many total as well as soluting discussions the street section. As the are are commercial areas where the street section is the street section and the street section and the street section. As the area section areas are section. As the street section area section. As the street section area of the street section as a section as the street section area of the street section. As the street section area of the street section as the street section area of the street section as the street section as the street section area of the street section as the street section area of the street section as the street section area of the street section as the street section area of the street section as the street section area of the street section as the street section area of the street section as the street section area of the street section as the street section area of the street section area of the street section as the street section area of the street section as the street section area of the street section are street section area of the street section are street section area of the street section are street section area of the street section are street section are street section area of the street section are street section area of the street section are street section are street section area of the street section are stree	Take Action	Create /modify policy, goal, or ordinance	Modify Froling 2.1.1 Linknoot indicate removal terms and underlines indicate added terms. Policy 2.1.1 Entire and proposed Augustations for development at urbano or substrand indicates in 1620-year Modification state. (26)-year Modification state, and/or other food private section of the section of the separaptriate solutions or be denied.
Economic Development	Flooding	Commercial designations	Board on the 2022 College General Plan, respec commercial areas are in easient county just cent the Africa.  College The Intersection Services County Plan and Plan Amenus, and the Intersection between Coulty's Good College Road College Road County Plan and College Road College	Based on the FTMA RII, total events on encoref from severe weather (e.g., riverine foodingli   z - with a naisusable frequency of pervisip per year. Based on the City of Dakley Emergency Operations Plan, floods are infrequent but car cauge from low, moderate, and high severity, = Low Probability  Based on the FTMA RIII, total events on record from severe weather (e.g., ball) is 30.  Based on the FTMA RIII, total events on record from severe weather (e.g., ball) is 30.	Flooding cond lead to a loss of property and associated tax reviews, as of all a potential cond inclusioness. Business resolutions between the condition of th	Take Action	Create /modify policy, goal, or ordinance	Modify PriOxy 2.1.1. Strikeout indicate removal terms and underlines indicate added terms. Peakly 2.1.1 Entire and processed *Applications for development at unbran or subsubstan described in 10.0 year floodplain areas, 200 year floodplain areas, and/or orthood price areas where there is a serious risk to file and property (see Figure 9.3) shall demonstrate appropriate solutions or the defend.  Modify PriOxy 2.1. Strikeout indicate removed terms and underlines indicate added terms.
scanuffic Development	Severe storms and extreme weather	Commercial designations	Based on the 2022 College General Plan, major commercial errar sain in asterior county just control of Main Security. The intersection between Laurel Read and Plans Amenus, and the intersection between College Road security of the College Road Security of the College Road Security of the College Road areas Medium Sensitivity.	with an annualized frequency of 1.8 events per year. * Low Probability	As flooding it as accordantly hazard of exvers storms and washers, it could lead to a loss of properior, and escapation is reviewed by the country of the c	Take Action	Create /modify policy, goal, or ordinance	Paliny 8.2.1: <u>Frantise and amounced Amp</u> ilications for development at urban or suburban describes in 100 years floodypsian sease, 200 years floodypsian sease, 200 years floodypsian sease, 200 years floodypsian sease, 200 years a size of the six section risks to file and property jose Figure 8.3) shall demonstrate appropriate existence or the identification.
Conomic Development	Temperature changes - warming	Commercial designations	Sead on the 2022 Cooking General Plan, super commercial prices are in existent county just onto the Main Search, the Intersection Services Laurell Read of Plans Anexus, and the Contraction between Codiality Road and Empire Newton. Further prices zoned as business partis are primarily located within the Data Riconation error. Afterwise Searching	The chief of Galary could reperience an average temperature of 7.75 degrees facehored muture flavor 20.55 to 20th. Protopy 05, the projection is anticipated to increase the an average maximum temperature of 8.13 degrees fabrented. The average number of extreme house days recepted the the Chyn In the years 555 to 25% and four days per year.  In the years 2015 to 5046, the city is projected to experience 11 to 11 additional actions had days per year. Further, models predict the number of extreme hout days other than the city may be apply any per year in the 2015 to 5050 femiliar.  Stand on the FERAN RII, total events on record from source weather (e.g., hold wave), a Medium Probability.	damage. In addition, energy efficiency may be reduced. As the city is etc.) and upgraded cooling systems, = Medium Adaptive Capacity	Take Action	Create /modify policy, goal, or ordinance	Cruster new polices regarding eating and proposed commercial building standards to combart climate -induced impacts.

Économic Development	Wildfire	Commercial designations	Based on the 2022 Oakley General Plan, major commercial areas are in eastern county just north of Main Street, the intersection between Laurel Road and O'hara Avenue, and the intersection between Oakley Road and Empire Avenue. Further areas zoned as business parks are primarily located within the Delta Recreation areas.	Based on the FEMA NBI, total events on record from wisfilre is not applicable with an annualized frequency of 0.0 events per year.  Based on the City of Oakley Emergency Operations Plan, wildland fires are infrequent with monderate sewerity: a line Probability.	Wildfires may directly destroy commercial buildings by burning down the infrastructure. However, as no parcels within the City that are located in a VHFHSZ nor in any high moderate or other fire hazard severity zone, the magnitude of impacts is low. = Low Magnitude	Commercial designations may also be renovated to combat wildfire. For instance, structural changes that may include more durable materials (heat resistant, non- flammable, etc.) and upgraded air filtration systems. = Medium Adaptive Capacity			
			Based on the CalFire Very High Fire Hazard Severity Zone (VHFHSZ) Map and City of Oakley General Plan, there are no parcels within the City that are located in a VHFHSZ nor in any high moderate or other fire hazard severity zone.	with moderate severity. = Low Probability			Accept Risk		
			The city is within the boundaries of critical fire weather class 3 which correlates to 9.5 more days per year of moderate, high, and extreme fire hazard. = Low Sensitivity						
Economic Development :	Sea Level Rise	Commercial designations	Based on the 2022 Dakley General Plan, major commercial areas are in eastern county just north of Main Street, the intersection between Laurel Road and O'Hara Avenue, and the intersection between Dakley Road and Empire Avenue. Further areas zoned as business parks are primarily located within the Delta Recreation areas. — Low Sendibitivi	Based on the FEMA NRI, total events on record from sea level rise is not applicable with an annualized frequency of 0.0 events per year. = Low Probability	With a 12-inch SLR scenario and 100-yr storm event, the shoreline area is anticipated to experience SLR inundation at a depth of 2- to 45-inches by mid century. Sea level rise would increase the severity of coastal erosion. As sea levels continue to rise, more area is susceptible to potential erosion,	Commercial designations may also be renovated to combat sea level rise. For instance, structural changes that may include elevation changes, floodproofing, and improved foundation changes. = Medium Adaptive Capacity			
			areas Low Demisionity		As said anneas committee or long, more area is sourcepteed to potential ercholer, or in some cases accretion. This could also lead to costly impact on structures and infrastructure and loss of land mass; thus, causing a significant economic impact on the region. = Medium Magnitude		Accept Risk		
Human Health	Precipitation Changes	Hospitals, clinics, medical centers, etc.	Raley's Shopping center. Other hospitals/clinics such as John Muir Medical Center, Kaiser Permanente, Contra	Average precipitation between 1961 to 1990 was 14 inches with a high of 28.7 inches and a low of 4.5 inches.	As there is a projected increase in precipitation from 2035 to 2064 and 2070 to 2099, anticipated structural damage, accidents, closures, and	Infrastructure improvements for medical facilities may be implemented for precipitation changes such as stronger material choice, advanced storm drainage systems, and overall			
			Costa Regional Medical Center, and Sutter Delta Medical Center, are located in Brentwood, Antioch, Martinez, and Antioch respectively. = Medium Sensitivity	It is projected that average precipitation from 2035 to 2064 will increase to 15.0 inche and would increase slightly to 16.4 inches in 2070 to 2099.	undue burden on staff may occur. As the baseline average precipitation s between 1961 to 1990 was 14 inches, the increased precipitation in future years is not significantly higher. = Low Magnitude	structural upgrades. = Medium Adaptive Capacity			
				Based on the FEMA NRI, total events on record from precipitation changes (e.g. drought) is 1.358 with an annualized frequency of 61.7 events per year.			Accept Risk		
				erought is 1,558 with an annualized frequency of 61.7 events per year.  = Medium Probability					
Human Health	Flooding	Hospitals, clinics, medical		Based on the FEMA NRI, total events on record from severe weather (e.g. riverine flooding) is 2 with an annualized frequency of 0.0 events per year.	As there is a projected increase in precipitation from 2035 to 2064 and 2070 to 2099, anticipated structural damage, accidents, closures, and	Infrastructure improvements for medical facilities may be implemented for precipitation changes such as stronger material choice, advanced storm drainage systems, and overall			
		centers, etc.	saley's shopping center. Uttler nospitals/clinics such as sonn Muir Medical Center, Kaleer Permanente, Lontra Costa Regional Medical Center, and Sutter Deta Medical Center, are located in Brentwood, Antioch, Martinez, and Antioch respectively. = = Medium Sensitivity	mooding) is 2 with an annualized frequency of 0.0 events per year.  Based on the City of Oakley Emergency Operations Plan, floods are infrequent but can	zu/ru to zu99, anticipated structural gamage, accidents, closures, and undue burden on staff may occur. Flooding is a secondary impact from increased precipitation changes; thus similar impacts would occur.	changes such as stronger material choice, advanced storm drainage systems, and overall structural upgrades. = Medium Adaptive Capacity			
			,	range from low, moderate, and high severity. = Low Probability	Based on the 2022 Oaldey General Plan, the La Clinica in the city is not		Accept Risk		
					located on a 100-year or 500-year flood zone; thus, the magnitude of impacts is low. = Low Magnitude				
Human Health	Severe storms and extreme weather	Hospitals, clinics, medical centers, etc.	The only hospital/clinic within the City of Oakley is La Clinica which is located on 2021 Main street in the Oakley Raley's Shopping center. Other hospitals/clinics such as John Muir Medical Center, Kaiser Permanente, Contra	Based on the FEMA NRI, total events on record from severe weather (e.g. hail) is 30 with an annualized frequency of 1.8 events per year. = Low Probability	As there is a projected increase in precipitation from 2035 to 2064 and 2070 to 2099, anticipated structural damage, accidents, closures, and	Infrastructure improvements for medical facilities may be implemented for severe storms and extreme weather such as stronger material choice, advanced storm drainage			
			Costa Regional Medical Center, and Sutter Delta Medical Center, are located in Brentwood, Antioch, Martinez, and Antioch respectively. = = Medium Sensitivity		2070 to 2099, anticipated structural damage, accidents, closures, and undue burden on staff may occur. Increased precipitation is under the umbrella of severe storms and extreme weather; thus, impacts would be	systems, and overall structural upgrades. = Medium Adaptive Capacity			
					similar. = Medium Magnitude		Accept Risk		
Muman Maalth	Tomporature chapper	Maraltale clinice madical	The only hospital/clinic within the City of Oakley is La Clinica which is located on 2021 Main street in the Oakley	The city of Oakley could experience an average temperature of 77.9 degrees	With a potential increase in warmer spring temperatures and overall	Infrastructure improvements for medical facilities may be implemented for warmer			Create new policies regarding existing and proposed medicial facility standards to combat
Human Health	warming	centers, etc.	Raley's Shopping center. Other hospitals/clinics such as John Muir Medical Center, Kaiser Permanente, Contra Costa Regional Medical Center, and Sutter Delta Medical Center, are located in Brentwood, Antioch, Martinez.	Fahrenheit during the years 2035 to 2064. Through 2099, this projection is anticipated to increase to an appearance maximum temperature of 91.2 degrees Exhandelt. The	temperatures, the distribution and occurrent of West Nile virus, Lyme	temperatures such as energy efficient cooling systems to prevent energy outages these facilities. Thus, operation and functionality of these facilities would not be heavily			Cleate new porces regarding existing and proposed medical racinty standards to compati climate-induced impacts.
			and Antioch respectively. = Medium Sensitivity	average number of extreme heat days recorded for the City in the years 1961 to 1990 was four days per year.	change significantly.  A heightened frequency of extreme heat days can pose a risk to sensitive	impacted. = Medium Adaptive Capacity			
				In the years 2035 to 2064, the city is projected to experience 11 to 31 additional extreme heat days per year. Further, models predict the number of extreme heat days	A neightened frequency of extreme near days can pose a risk to sensitive communities such as persons with homelessness, senior citizens, and persons with disabilities. = Medium Magnitude		Take Action	Create /modify policy, goal, or	
				in the city may rise to 33 days per year in the 2070 to 2099 timeline. = Medium Probability			Take Action	ordinance	
				Based on the FEMA NRI, total events on record from severe weather (e.g. heat wave) is 0.0 with an annualized frequency of 0.0 events per year.					
Human Health	Wildfire	Hospitals, clinics, medical centers, etc.	The only hospital/clinic within the City of Oakley is La Clinica which is located on 2021 Main street in the Oakley Saley's Shopping center. Other hospitals/clinics such as John Muir Medical Center, Kaiser Permanente, Comton Crosta Resional Medical Center, and Suster Palsa. Medical Center, are located in Rorenswood Antions Crosta Resional Medical Center, and Suster Palsa. Medical Center, are located in Rorenswood Antions.	Based on the FEMA NRI, total events on record from wildfire is not applicable with an annualized frequency of 0.0 events per year.	Wildfires may directly destroy hospitals, clinics, medical centers, etc. by burning down the infrastructure. In addition, wildfires may cause more accidents and an increased need for health care for neonle/	There are available technologies available to increase filtration efficiency to combat wildfire impacts. Cost and implementation of this technology is dependent on market			
			Costa Regional Medical Center, and Sutter Delta Medical Center, are located in Brentwood, Antioch, Martinez, and Antioch respectively.	Based on the City of Oakley Emergency Operations Plan, wildland fires are infrequent with moderate severity. = Low Probability	accidents and an increased need for health care for people/ However, there are no parcels within the City that are located in a VHFHSZ	fluctuations. = Low Adaptive Capacity			
			Based on the CalFire Very High Fire Hazard Severity Zone (VHFHSZ) Map and City of Clakley General Plan, there are no parcels within the City that are located in a VHFHSZ nor in any high moderate or other fire hazard	,	nor in any high moderate or other fire hazard severity zone, the magnitude of impacts is low. = Low Magnitude		Accept Risk		
			severity zone.						
Human Health	Sea Level Rise	Hospitals, clinics, medical centers, etc.	and onto the and outcome for bound of the Paragraph (Ac-	Based on the FEMA NRI, total events on record from sea level rise is not applicable with an annualized frequency of 0.0 events per year. = Low Probability	With a 12-inch SLR scenario and 100-yr storm event, the shoreline area is anticipated to experience SLR inundation at a depth of 2- to 45-inches by	Not applicable as asset is not located near the shoreline.			
		centers, etc.	Raley's Shopping center. Other hospitalis/clinics such as John Muir Medical Center, Kaiser Permanente, Contra Costa Regional Medical Center, and Sutter Detta Medical Center, are located in Brentwood, Antioch, Martinez, and Antioch respectively. = Low Sensitivity.	with an annualized frequency of 0.0 events per year. = Low Probability	anticipated to experience SLR inundation at a depth of 2- to 45-inches by mid century. Sea level rise would increase the severity of coastal erosion. As sea levels continue to rise, more area is susceptible to potential erosion.				
			and Antioch respectively. = Low Setisitivity		or in come carer accretion. This could also lead to cortly impacts on				
					structures and infrastructure and loss of land mass; thus, causing a significant economic impact on the region. However, the asset is not located near coastal shorelines; thus, the magnitude of impacts is low. =		Accept Risk		
					Low Magnitude				
Transportation	Precipitation Changes	Highway Bridges, road pass	All transportation routes may be impacted by precipitation changes as subsidence - sinking of the ground - can	Average precipitation between 1961 to 1990 was 14 inches with a high of 28.7 inches	Roads and facility closures occur during severe storms w/ extreme	Adaptation measures include regular maintenance, updating building codes to			Modify Policy 3.1.2 Strikeout indicate removed terms and underlines indicate added terms.
		Highway Bridges, road pass, rail, bike lanes	occur as groundwater is removed. Soils beneath transportation routes may also face soil changes as the soil may start cracking due to precipitation changes (e.g. drought). = Medium Sensitivity	and a low of 4.5 inches.	precipitation, and may increase with increased magnitude of storms.  Existing evacuation routes may also not be accessible anymore due to	withstand increasing hazards, or technology/design i.e., polymer layer reinforced window panes, shutters, weather-resistant shingles, permeable asphalt, etc. = Low Adantive Canacity.			Balley 2.1.2: Ear thora facilities identified as Souter of Regional Similitance and existing
				It is projected that average precipitation from 2035 to 2064 will increase to 15.0 inche and would increase slightly to 16.4 inches in 2070 to 2099.	s increased precipitation risks. = High Magnitude	Adaptive capacity		Country (country)	transportation modes, maintain the minimum acceptable service standards specified in the East County Action Plan Finol 2000 Update, or future Action Plan updates as adopted with consideration of climate induced hazards.
				Based on the FEMA NRI, total events on record from precipitation changes (e.g. drought) is 1,358 with an annualized frequency of 61.7 events per year.			Take Action	Create /modify policy, goal, or ordinance	
				= Medium Probability					
Transportation	Election	Highway Bridger road	There are no major roads that pays through the 100 way floodelyin Come roads are also built as bishess	Broad on the SEMA NRI total quests on corord from reuses unables for a second	Books and facility clasures occur during source storms w.f.	Bridgehand road reconstruction from withur to make street will come at the			Continue or initiate coordination with appearing such as but not limited as Control
		Highway Bridges, road pass, rail, bike lanes	There are no major roads that pass through the 100-year floodplain. Some roads are also built on higher elevation than the flood level. BMSF railway interacts roadways throughout City (Vintage Parkway, Rose Avenue, E (	Based on the FEMA NRI, total events on record from severe weather (e.g. riverine flooding) is 2 with an annualized frequency of 0.0 events per year.	Roads and facility closures occur during severe storms w/ extreme precipitation, and may increase with increased magnitude of storms. Shallow flooding with high velocities can cause as much damage as deep	Bridgehead road reconstruction from wilbur to main street will comprise of the construction of a new overcrossing over railroad and associated roadway widening on both sides of overcrossing. This project duration is anticipated to be short term;			Continue or initiate coordination with agencies such as, but not limited to, Contra Costa County Department of Conservation and Development, Contra Costa Health Services, Hazardous Materials Program Office, Contra Costa County Fire Protection District, Contra
			passes and may be subject to flooding. For example, railway overpass above Marth Creek Regional Trail is located near levees to the north and is anticipated to flood due to SIR inundation at 1.25 feet (12" SIR w/ 100yr storm scenario). Bypass is a recreational trail and impact is low. = Low Sensitivity.	Based on the City of Oakley Emergency Operations Plan, floods are infrequent but can range from low, moderate, and high severity. Flash floods and riverine floods from high-intensity, short duration (1-3 hours) storms are more common during winter	flooding with slow velocity, resulting in temporary or permanent pooling of water on roads. Existing evacuation routes may also not be accessible anymore due to flooding from increased precipitation risks. Further	however, with a high estimated cost and high implementation priority.  Cypress Road Wildening from Bethel Island Road to Jersey Island Road - bring			Costa County Office of Emergency Services, Contra Costa County Cities Citizen Corps, Contra Costa County Office of the Sheriff.
			encorrence out uppass to a recreational trail and impact is low. = <b>Low Sensitivity</b>	months (1-3 months) and typically concentrated on stream reaches with already	alternatives to street closures and existing evacuation routes may be accessible during floods. As no major roads pass through the 100-year	Cypress Road Widening from Bethel Island Road to Jersey Island Road - bring construction of the roadway to City standards including undergrounding utilities and storm infrastructure construction.			
				saturated soil. In the part, flooding of delta islands in north City area are a result of structural failure followed by overtoping of leves (I.e., gill grad). Records show delta flooding from levee failure occurring in north City since 1860s, large scale floods considerated accurrence interval of 1.3 years (sids age from 1890 to current), floods and flash floods have a 30 percent chance of occurring in any given year and heavy rain events have a 66 percent chance. Generally, flooding will likely continue to be an annual hazand use High Probability	floodplain, the magnitude of impacts would be low. = Low Magnitude	Upsize (extend and widen) Laurel Road from Teton to Sellers Avenue over railroad			
				coincidental occurrence interval of 1-3 years (data gap from 1980 to current). Floods and flash floods have a 30 percent chance of occurring in any given year and heavy rain events have a 66 percent chance. Generally, flooding will likely continue to be an		tracks to provide a grade separated evacuation route and add new signaled intersection sellers.	Take Action	Coordinate with other agencies	
				annual hazard. = Low High Probability		Routes that could be used to evacuate the city include: - Laurel Road due west to Highway 4 interchange or City of Antioch beyond		- State agencies	
						Laurel Road due west to Highway 4 interchange or City of Antioch beyond     Main Street due west to Highway 150 interchange or City of Antioch beyond.     Empire Avenue due south to Cities of Antioch and Brentwood.     O'Hara Avenue due south to City of Brentwood.			
						- O Haira Avenue due south to City of Brentwood Main Street due south to City of Brentwood Sellers Avenue due south to Unincorporated Contra Costa County Interchange at Wilbur Avenue and Highway 160.			
						Interchange at Wilbur Avenue and Highway 160.  = Medium Adaptive Capacity			
						- менит могриче сарасту			

Transportation	Sovier storms and extreme	All, bite lands	elevation than the filod level. «Low Sensitivity	with an annual and frequency of 1.8 events per year. = Low Probability	Reads and Easting cossures occur during severe storms of extreme projections, and any crustee with horscased mybinocased anyolisation of compressions. Social confossing due to severe storms and extreme weather with high resulting in temporary or parameter propriet parts or novals. Easting exacution, roads may also not be accessible anymero due to horscased prescucion roads may also not be accessible anymero due to horscased execution trades may also not be accessible anymero due to horscased execution roads may be accessible during thools. As nor major roads pass execution roads may be accessible during thools. As nor major roads pass execution roads may be accessible during thools. As nor major roads pass execution roads may be accessible during thools. As nor major roads pass execution roads may be accessible during thools.	Insighted and reconstruction from wilbut to main street will comprise of the construction of a new controllation of the new controlla	Accept Rick		
Transportation	Temperature changes - 1	fighway Bridges, road pass, all, blue tanes	All transportation routes may be impacted by extreme heat as aughlat pavements may soften or even begin to meet.  Soils beneath transportation mostes may also face soil changes as the soil may start cracking due to warmer immersiture changes Medium Senathally	The city of Cooling could experience as average temperature of 77 of degrees fashwared studying they are 250 is 2004. The 1990, the projection is anticipated to increase be an average maximum temperature of 81.3 degrees favorednet. The country of the 1990 is 199		Routes that could be used to excause the edy reclude:  Lauril Rould our west onlymany a interchange or City of Anticoh Beyond  -Main Street due west to Highway 18 Contendange or City of Anticoh Beyond  -Main Street due west to Highway 18 Contendange or City of Anticoh Beyond  -Roughing Amenica due and the Citize of Anticoh and Beredwood.  -Main Street due seed this City of the enthodod.  -Seller Awene due south to City of the enthodod.  -Seller Awene due south to University postate Contra Costa County,  -interchange at Wilbur Avenue and Highway 160.  -Medium Adaptive Capacity	Take Action	Coordinate with other agencies	Continue or initiate coordination with agencies such as, but one financial for Contra Costa Control (Popathment of Contra Costa Costa Costa Costa (Costa Sedia Service, Hazardoo Autherius Program Office, Contra Costa County Fine Protection District, Contra Costa Costa) (Pfice of Bergero, Services, Contra Costa County Clies Citizen Corpe, Contra Costa Costa) (Pfice of Bergero, Services, Contra Costa County Clies Citizen Corpe, Contra Costa County) Office of the Sheeff.
Transportation	Wildfire	Righway Bridges, road pass, al, this times	Based on the Carliew New; High Fire National Sounty, Does (North 2014), but paid City of Challey, General Plan, Index one opposeds within the City that are located on Herbit 2cm in any High produced see other fire the hazard seventy zone. City is more likely to experience secolomy impacts from welfile smoke - elderly, children, and adults with presenting hazard horosothours are more estimate.  The city is within the bookdrared of critical fire weather class 3 which correlates to 9.5 more days par year of moderants, high, and extreme fire hazard. * Low Sensitivity	Saude on the FERALNE, that events on record from wildfire is not applicable with an encounted requestor, of the cents per year.  Based on the City of Clasky Emergency Operations Plan, wildland fires are infrequent with moderate sevently. * Low Probability	explained frough increased portionise, mission, and parement cracks. However, there are no process within the city has a located in a VMPST of located and process of the control of the control of the control of an any high moderate or other first hazard evenity zone, the magnitude of impacts is lone – size diagnitude.	Concess food Withdrawing from Bethell stands fload to Service years and second-controlled or the recognitive place of the second second controlled or the recognitive place of the second secon	Accept Risk		
Transportation	Sea Level Rise	ighway Bridges, road pass, all, bike lanes	Transportation order sear life (levels, be insulant more, and the bodin's longly would be now unknown to the level rise due to its colorisation to the colorisation. The rootes include reconstruction that land access to presidence but may set as evacuation routes for reactly residences. Additionally, 80V call however throughout Colorisation (level) through pressure, but considering the colorisation of the colorisation of the design of the colorisation of the colorisation of the colorisation of the colorisation of the compass above Martin Creek Regional Trail is located rear levels to the north and is articipated to flood due to 81 muniform of 1.25 feet (12"5.18 w/ 300yr storm scenario), Bypass is a recreational trail and impact is low, a region Security.	with an annualized frequency of 0.0 events per year.	anticipated to experience SLR inundation at a depth of 2- to 45-inches by mid century. Sea level rise would increase the severity of coastal erosion.	Cypress And Windows (from Bethel Island Roads to arrany injuned Roads - bring construction of the roadway to City standards underly conducting undergrounding utilities and down infrastructure construction.  Under the conduction of the conductio	Take Action	Coordinate with other agencies	Continue or initiate coordination with agencies such as, but on telemedia Contra Casia County (Speathment of County Coun
Waste Management	Precipitation Changes	ronhouse Sanitary District	trondous Saintary Rostrol (ISD) allows gravity and pressure pipolises, paringing stations, and the incohous when freeding Facility 1879. The MRF is because on 258 some agreement be be beauth side of the lightest and the San Joaquin River. The INVR has a current treatment capacity of 4.3 mgd dry weather flow and E6 mgd maximum wet weather flow. • Medium Sensitivity	Average precipitation between 1981 to 1990 was 14 inches with a high of 28.7 inches and a low of 4.5 high profession 1981 to 1995 with 1982 with 1	- I clean up activities. As there is projected precipitation changes from 2035 to 2054 and 2070 to 2059, treatment process and infrastructure of the SD and TWRF may be moderately impacted. – Medium Magnitude		Take Action	Plan for inclusion in future CIPs	Traver that climate considerations are included in criting and designing discisions of major copital expenditures.  Traver that climate considerations are included in criting and designing discisions of major copies.
Waste Management	Hooding	ronnouse Sanitary District	monous Salary Rosco ((50) elibers garvly and pressure pippless, pamping stations, and the incohous where freeding Faller (WWW). The NWFF is facilities on JSS scens signored to be easier side of the light real and the San Jacquin Rhor. The NWFR has a current treatment capacity of 4.3 mgsl dry weather flow and 8.6 mgsl maximum wet weather flow. • Medium Sensibility	flooding is, 2 with an annualized frequency of 0.0 events per year.  Based on the City of Guidey Emergency Operations Plan, floods are infrequent but can cauge from low, moderate, and high sevently = <b>Low Probability</b>	can be anticipated. Destruction to asset would cost millions to replace and conduct clean up activities. As there is projected precipitation changes from 2035 to 2064 and 2070 to 2099, treatment processes and infrastructure of the ED and NIWE may be moderately impacted. Further, bead on the 2022 Caldery General Plan, the plants ED is located within the EDO-year flood zone. = Medium Magnitude	Oxiging standards and implementation of Innovative process treatments could be implemented to hand increased water from our bot frouds. This may cost targe economic investments, time, and designs. = Low Adaptive Capacity	Take Action	Plan for inclusion in future CIPs	Estade that climits considerations are included in ching and designing decisions or major registrat expenditures.
waste Management	Severe storms and extreme is weather	ronnouse Sanitary District	rombous Barbary Starce ((SD) offices gravly and pressure prolesse, pumping stations, and the inchhoses where flexing Facility (SD) and SD and	Based on the FEMA MI, total events on record from severe waterfor (e.g., half) is 30 with an annualized frequency of 1.8 events per year: = Low Probability with an annualized frequency of 1.8 events per year: = Low Probability	means higher expenses for ministenance and repairs during critical facility faultures. Destruction to asset would contilling to replace and conduct clean up activities. As there is projected precipitation changes from 2035 to 2054 and 2070 to 2059, treatment processes and infrastructure of the ISD and 1997 may be moderately impacted.—Medium Magnitude	weather. This may cost large economic investments, time, and designs. = Low Adaptive Capacity	Accept Risk		
Wasie Minagement	Temperature changes	Sanitary District	rrondous Sintery District (ISD) eliters gravity and pressure popiers, perspirig stations, and the inombouse Water Recycling 2401 Willy The NWFF is to See a Constitution 255 acress adjacent to the south side of the tilg Break and the San Josephin River - Medium Sensitivity	The city of Goldey could reporter as a average temperature of 7.9 degrees. Advanced nature flave part 2035 to 2045. Through 05th prospections an indicated to increase to an average maximum temperature of 8.13 degrees. Fairwhells: The average number of extensive heat days recented for the City in the years 1981 to 1990 was flow drop per year. In this years 2015 to 2046, the city is projected to experience 11 to 11 additional estimate heat days per year. Further, models predict the number of extense heat days in the City in the years 2015 to 10 add to 10 to 10 years year. Study per year in the 2010 200 filmeline. But of years year in Super years of the 2010 200 filmeline. Based on the FERAN RII, total events on record from severa weather (e.g., heat wave) or 0.0 with an annualized frequency of 0.0 events per year.	Temperature Changer in term of summing may impact the process efficiency at the plant change, but change (and process) efficiency at the plant change, but change (and plant change) impacted which would decrose the efficiency of facculation. The quality of using soil is being pacted as externed array least to execute a facility of the size of the changes of the change of the plant change is not executed a facility of the change of th	innocative treatment processes used as a cooled offliers. WSAC coolen, heat concharger, and the insidence of place, task, or depotenters may be implemented. These processes may be coolly and time consuming: • Low Adaptive Capacity	Accept Risk		

	Wildfire  Sea Level Rise	Ironhouse Sanitary District  Tronhouse Sanitary District	Ironhouse Santary District (1950) utilizes growly and pressure ppellines, pumping stations, and the homhouse Morter Recycling Sacility (1998). The refer is occused on 1.65 scree adjacent to the south does of the lage lead. and the San Tougher West (1998) has been seen to 1.65 scree adjacent to the south does of the lage lead. Based on the Califer Very High Fire Hazard Sevenity 2004 (1994) has high moderate or other fire hazard sevenity 2004. The on paceries within the Poondaries of critical fire weather class 3 which convisites to 9.5 more days per year of moderants, high, and extreme fire hazard - Low Sendibility. Troubouse Santary District (150) utilizes gravity and pressure ppellines, pumping stations, and the hombouse for heavy (1998). The VIDE 1 south on 1.65 scree adjacents to the scont does not help gives in manning wet weather flow. 1 Low Sensibility.	Seed on the FEMA NRI, total events on record from sea level rine is not applicable with an annualized frequency of 0.0 events per year. = Low Probability	direct infrastructure damage to the glants, power loss, pump biochages, and estimates contaminants, however, as the glants are not council on a 9449055 on in any high insociates or other fine hazard soverty assets, the registructed of impacts is time = 1 time flaggifished.  With a 12 orth 18.4 comman and 100 yr storm event, the shoretime area is anticipated to experience SE in fundation at a depth of 2 to 45 -inches year and country. Sets even the second received a set of the shoretime area in anticipated to experience SE in fundation at a depth of 2 to 45 -inches year and country. Sets even the second increase the severity of costal excellent and only one of the second increase the second or some cases accordant. This could also lead country, sets and infrastructure and loss of fund mass thus, casing a continuous programme accordant country in commandation of the second increase; the plants are not structures and infrastructure and loss of fund mass thus, casing a country instructure and infrastructure and loss of fund mass thus, casing a country instructure and loss of fund mass thus, casing a country instructure and loss of fund mass thus, casing a country instructure and loss of fund mass thus, casing a country instructure and loss of fund mass thus, casing a country instructure and loss of fund mass thus, casing a country instructure and loss of fund mass thus, casing a country instructure and loss of fund mass thus, casing a country instructure and loss of fund mass thus, casing a country instructure and instructure and loss of fund mass thus, casing a country instructure and loss of fund mass thus, casing a country instructure and loss of fund mass thus, casing a country instructure and loss of fund mass thus, casing a country instructure and loss of fund mass thus, casing a country instructure and loss of fund mass thus, casing a country instructure and loss of fund mass thus, casing a country instructure and loss of fund mass thus, case of the country instructure and loss of the country instructure and	Measures to combat wildfire include improving treatment processes (e.g., seasonal proteinment systems & auding additional treatment phases for fine particulates), water quality monitoring, building codes, sad general lift association. = Low Adaptine Capacity (Measure of the Capacity Measurement of the	Accept Risk  Accept Risk		
Waste Management	Precipitation Changes	Solid waste/recycling and hazardous materials services	Soil water services are produced to the city of Calley through Mr. Chabb Resource Recovery, Mr. Chabb Congregate is based and Petitibles.  Calciscition centers that arroad motor oil are not located in Calley and are instead located in communities easily, For instance, the Delta Household Hazardous Water Collection Facility is located in Antoch. + Low Sensibility	Average procipation between 1953 to 1990 was 54 notice with a high of 28.7 inches on a low of 4.5 lived has average periopitation from 3951 to 1954 with increase to 15.0 inche and would increase sithly to 6.4 inches is 2019 2099.  Based on the FEMA HIB, itsel events on record from preophration changes (e.g., designed) is 1,355 with an annualized frequency of 6.1.7 events per year.  * Medium Probability	wate collicition services for City residents. As there is an increase in prerequirities for first years, the magnitude of impacts is moderate. = 10 Medium Nagaritude	Sold waste Storage areas can be revolved to handle increased precipation charges for instance, storaginal changes that may include more durable materials and upgraded dramage systems.  - Medium Adagstive Capacity	Take Action	Create /modify policy, goal, or ordinance	Modely Prior, V.T.3. Unknook inductor emoved terms and underlines indicate added terms, Pedity 4.7.3. Li recourage the development of waste transfer, processing, and disposit, processing the development of waste transfer, processing, and disposit, processing of the development of waste transfer, processing, and processing of the development of transfer, and processing of the development of transfer in the development of transfer indicate in processing of the development of the development of the development of processing of the development of the development of processing of the development of the development of processing of processing processin
Waste Management	Flooding	Solid waste/recycling and hazardous materials services	Sold waste services are provided to the City of Collaby Principal, No. Clabble Resource Recovery, Mt. Clabble Recycling is located in Petitology. Collection contents that accept motor oil are not located in Collaby and are increased located in communities ensuly. For instance, the Delta Household Hazardous Waste Collection Facility is located in Antioch. + Low Security.	Based on the FHMA HISI, total events on record from severe weather (e.g. riverine flooding) is 2 with an annualized frequency of 0.0 events per year. Based on the City of Oakley Emergency Operations Plan, floods are infrequent but can range from low, moderate, and high severity. = Low Probability	= Low Magnitude		Accept Risk		
Waste Management	Severe storms and extreme weather	Solid waste/recycling and hazardous materials services	Sold waste services are provided for the city of Calety through Mr. Diablo Resource Recovery, Mr. Diablo Recoverying is located in Pittiburg.  Collection centers that accept motor oil are not located in Dakey and are instead located in communities early. For instance, the Data Household Hazardous Waste Collection Facility is located in Aetioch Low Jenselby Provided Collection Provided Provi	Based on the FRMA NRI, total events on record from severe weather (e.g. hall) is 30 with an annualized frequency of 1.8 events per year Low Probability	Increased extreme precipitation from major storm events may disrupt waste collection enviors for City residents. At there is an increase in precipitation for future years, the magnitude of impacts is moderate. = Medium Magnitude	Solid waste storage areas can be renovated to handle increased severe storms and centrene weather. For intrance, structural changes that may include more durable materials and upgraded drainage systems.  * Medium Adaptive Capacity	Accept Risk		
Waste Management	Temperature changes - warming	Solid waste/recycling and hazardous materials services	Sold water services are provided to the City of Califery through Mr. Calabb Resource Recovery, Mr. Calabb Conjuging its located in Pittiborg.  Califection contents that accept motor oil are not located in Califery and are increased located in Califery and are increased in Communities monthly. For instance, the Delta Household Hazardous Waste Collection Facility is located in Antoch. * Low Sensibility.	The city of Colary could experience an average temperature of 7 of Segrees. Producted burying the parcial Scia 100H. Though on, the projection antidipoted to concease to an average maximum temperature of \$1.5 degrees. Parcellet. The second concease to an average maximum temperature of \$1.5 degrees. Providence. The second code part year. Second code part year of the DOVID 2009 timestics. Second code part year of the DOVID 2009 timestics. Second code the ERIAA 800, total events on record from severe weather (e.g. head wave) 1.00 of with an averaged department of the Second part year. • Medium Probability	Infrastructure damage (e.g., waste collection vehicles and equipment). Increases in leachate, methane emissions, pest attraction, and odors may also become severe. However, as the solid waste services provided for the city are not within Oakley, the magnitude of impacts are low. = Low Magnitude Magnitude	Sool wasks torage areas can be renovated to handle increased severe storms and certain weather. For intende, stortunal changes that may include more durable materials and agranded cooling systems.  - Medium Adagstive Capacity	Accept Risk		
Waste Management	Wildfire	Solid waste/recycling and hazardous materials services	Sold waste survices are provided to the City of Callay Provagils. All Callab Resource Receivers, Mr. Clabbia Recycling its located in Plattage.  Collection certified in Callab Receivers and a result of Callab Receivers and a result of Callabora (Callabora Callabora). The Callabora Cal	Sead on the PERAN Ref. Data events per years on recent from white's in set applicable with an invasible PERAN Ref. Data events per year. The sead of the CT of Calabry Timespace (Secretary Sead on the CT of Calabry Timespace) Operations PEuv, wild and fires are infrequent with moderate seventy, a Low Probability	and hustacebour materials services. However as the services are not located within Cabley, the magnitude of impacts is low. * Low Magnitude within Cabley, the magnitude of impacts is low. * Low Magnitude	Sold waste torage areas can be recovered to handle increased server atoms and decrease weather. First induce, structural changes that may include more durable materials and ugarated fittrates systems.  **Medium Adaptive Capacity**	Accept Risk		
Waste Management	Sea Level Rise	Solid waste/recycling and hazardous materials services	Sold waste services are provided to the oil of of Calley provaigh M.E. Cubble Resource Recovery, M.E. Clabble Recycling its located in Patthology.  Calcifaction, contents that accept motor oil are not located in Calley, and are instead located in Communities, easily, For Instance, the Delta Household Hazardous Waste Collection Facility is located in Artisoch. • Low Sensibility	Based on the FEMA NRI, total events on record from sea level main is not applicable with an annualized frequency of 0.0 events per year. = Low Probability	With a 12-win SLR scenario and 100-yr storm event, the shorenine area is anticipated to experience 18 insurations at a cell of 2 u 6 4-inches 1 and century, Scale level first evoid increase the severity of coastal evotion. When the severity of coastal evotion is or is owner case control. This could also level except impacts on structures and infrastructures and loss of fault mass; thus, causing a significant economic faunce on the region. Never at the facility is not located near coastal shorelines = Low Magnitude.	Not applicable as asset is not located near the shoreline.	Accept Risk		

Zoning and Development	Precipitation Changes	Downtown Galdey	Commercial downtown in the city comprises of 80.5 total across which consists of 41.8 developed across and 39.1 underdreshelped across commercial downtown is primarily near the intersection of Main Street and Chisas developed. — Netdown Sensibility	Average procipitation between 1981 to 1990 was it index with a high of 23.7 inches and a low of 4.5 facilities.  It is projected both average procipitation from 2035 to 2054 will increase to 15.0 inches and would increase signifying to 16.4 inches in 2005 2009.  Based on the FERA RRI, total events on record from propipitation changes (e.g., dought) is 13.58 with an annualized frequency of 6.17 events par year.  Medium Probability	thus, decreasing the flow of income for many store as well as shutting down stores during severe storms. As there are major commercial areas	Covertions Outsidey areas can be removated to floods. For instance, structural changes that may recked me outside materials and upgraded drainage systems.  - Medium Adaptive Capacity	Take Action	Create /modify policy, goal, or ordinance	Create new polices regarding existing and proposed direstigement in Downtown Oakley to combat climate-induced impacts.
Zoring and Development	Flooding	Downtown Qakley	Commercial downtown in the city comprises of 80 total across which consists of 4.18 developed across and 33. underdeveloped across commercial downtown is primarily near the intersection of Main Street and O'Haza persons. — Medium Sensitivity	Based on the PITAN A RIV, lotal events on except 0 even severe weether (e.g., fiverine filosoligi) is 2 with PITAN A RIV, lotal events of requester per year.  Based on the City of Clasky Smergency Operations Plan, floods are infrequent but car anger from two, moderate, and high sevenity 4 fave Probability.	with a flood event include not the inability to operate a business because of	that may include more durable materials and upgraded drainage systems.	Take Action	Create /modify policy, goal, or ordinance	Create new policies regarding exiting and proposed development in Downtown Clasky to combat. Climate indused impacts.
Zoning and Development	Severe storms and extreme weather	Downtown Dakley	Commercial downtown in the city comprises of 80.5 total acros which consists of 41.8 developed acros and 39.1 underdreveloped acros commercial downtown is primarily near the intersection of Main Street and Chisza journus. – Medium Sendibrity	Stand on the FEMA NRI, total events on record from severe weatherfrie (e.g., half) is 30 with an annualized frequency of 1.8 events per year: - Low Probability		that may include more durable materials and upgraded drainage systems.	Take Action	Create /modify policy, goal, or ordinance	Create new policies regarding existing and proposed development in Downtown Dakley to combat climate indused impacts.
Zonling and Development	Temperature changes - warming	Downtown Gakley	Commercial developer in the city comprises of 80.5 total across which consists of 41.5 developed across and 30.1 underdreveloped across commercial developers is primarily near the intersection of Main Street and O'Haza service. — Neddium Seculdurity	This city of College Could experience an average temperature of 7.7 disgrees. Advanced their tiple types 235 is 2014. Through 0.9 this projection anticipated to occurate to an average maximum temperature of 21.3 degrees. Political to occurate the analysis of 21.3 degrees. Political to occurate the size experience the occurate to the days the type in 19.5 to 9.5 t	structural damage. In addition, energy efficiency may be reduced. As the city is projected to experience 11 to 31 additional extreme heat days per year from 2035 to 2064, the magnitude of these impacts are moderate. = Medium Magnitude	Downtown Challey areas can be renovated to floods. For instance, structural changes that may include modules materials and upgraded cooling systems.  - Medium Adaptive Capacity	Take Action	Create /modify policy, goal, or ordinance	Creater rew policies regarding exiting and proposed development in Downtown Claster to combit climate indused impacts.
	Wildfire	Downtown Galdey	Commenced dispersions in the city compressed of this Statial series which controls of SLLI disressed areas.  Another investigate acress. Commercial disentations is printently sear the interestation of Main Street and O'Hass another.  In the series of the	annualised frequency of D d events per year.  Based on the City of Dakky Emergency Operations Plan, wildland fires are infrequent with moderate sevently = Low Probability	existing infrastructure. However, as no procels within the City That are located in a VMFERS and any high moderate not be located in a VMFERS to the house of severity pane, the magnitude of impacts is low. * Low Magnitude	Medium Adaptive Capacity	Accept Risk		
Zoring and Development	Sea Level Rise	Downtown Oakley	Commercial downtown in the city comprises of Bill Strail across which consists of 4.1.8 developed across and 331. underdeveloped across commercial downtown is primarily near the intersection of Main Street and O'Haza persons Medium Senathurly	Based on the FTMA RIE, lotal events on record from sea level rine is not applicable with an annualized frequency of 0.0 events per year. * Low Probability	With a 12 with SIA scenario and 100 yr storm event, the shoreline area is ambiguisted to experience 18 ill mutations at a leaft of 2 u.6 5-inches 3 yr mid contain, 5 all level fire evoid increase the sevenity of costal evotor. As as level contains in this microw area is suspected to patiental evotors, as a level contains in this microw area is suspected to patiental evotors, and of the state of the sevent in the sevent	Not applicable as asset is not located near the aboretine.	Accept Risk		

Sources:
Cay of Ookley General Plan
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Accept Risk Take Action

**Sensitivity Low** = Minor repairs and accommodations required with routine maintenance. Slight inconveniences that could be resolved.

Sensitivity Medium = Temporary loss of functionality and operations closure. Moderate repairs and replacements required outside of routine maintenance. Repairs are more extensive and expensive.

Sensitivity High = Significant impact requiring reconstruction of parts or an entirety of an asset. Extensive rehabilitation of assets outside of routine maintenance and repairs. Major expenses required with long durations of repair and loss of functionality. Loss of services.

**Low Adaptive Capacity** = Adaptive solutions are innovative and costly, but have opportunity for implementation. Adaptive approaches may require coordination with multiple agencies; thus, may lead to disruptions in service and longer implentation times. Solutions may require change in lifestyle or change in political.

Medium Adaptive Capacity = Impacts/threats can be reduced or mitigated to a certain extent; however, adaptive solutions are only feasible for limited assets. Some assets may face difficulties in adapting in terms of cost and implementation. In addition, required coordination with third party agencies may be necessary for adaptivity measures.

**High Adaptive Capacity** = Assets can adapt with little to no difficulty. Direct influence on the implementation of strategies or solutions for the asset is apparent. Adaptive solutions are highly feasible for most, if not all assets with affordable costs.

**Low Probability:** Very limited historic events recorded. Frequency of hazardous events to occur is periodic with likelihood of future events to occur periodically. Likelihood of hazardous event(s) to occur once in 20 years.

Medium Probability: Limited, but some available historic events recorded. Frequency of hazardous events to occur is somewhat periodic. Likelihood of hazardous event(s) to occur once in 5 to 20 years.

**High Probability:** Recent, multiple historic events recorded. Hazardous events occur frequently. Likelihood of hazardous event(s) to occur within 5 years.

**Low Magnitude:** Minimal destruction to applicable assets with adequate functionality. In addition, minimal injuries and functionality to daily livelihood. Applicable assets may be easily repaired with available resources within a short duration of time without complications.

Medium Magnitude: Moderate destruction to applicable assets with decreased functionality. Injuries and functionality to daily livelihood are moderately heightened. Applicable assets may have increased difficulty for repair and functionality due to increased restoration times and complications. Health concerns are also a higher likelihood with strong suggestions for evacuation plans.

**High Magnitude:** Extreme destruction to applicable assets with little to no functionality. Injuries and functionality to daily livelihood are extremely heightened. Applicable assets will have significant challenges for repair and elongated periods of construction before functionality can be resumed. Health concerns are at an extreme likelihood with strong coercion for evacuation plans.



# City of Oakley Climate Action Plan Draft CAP Public Comment Register

2025

### **COMMENT REGISTER**

Date	Name/Source	Role/Affiliation	Comment	Resolver	Resolution or Response	Status
4/10/2025	Paul Seger	Sierra Club	Form a Stakeholder Advisory Group: The final CAP should be revised through an inclusive process that actively involves nonprofits, community groups, local watershed and salmon run advocates, and other interested parties. This collaborative approach will ensure that our collective expertise and local knowledge shape the CAP's measurable targets and enforcement strategies.	Cumming Group	This is not currently feasible given City resources, project timeline, and staff capacity. No changes were made, but the City will take this under advisement.	Resolved
4/10/2025	Paul Seger	Sierra Club	Request an Extension of the Public Comment Period: Given the significant gaps and the need for more robust stakeholder input, we respectfully request that the City extend the public comment period. An extension will allow time to form a stakeholder advisory group and will facilitate a more comprehensive, community-driven revision process. We respectfully call on the City Council to:  "Extend the CAP review period by at least 45 days "Hold a second public workshop, co-hosted with local partners "Invite local environmental groups, watershed councils, and equity advocates into a short-term working group to improve the plan's content	Cumming Group	This is not currently feasible given City resources, project timeline, and staff capacity. No changes were made, but the City will take this under advisement.	Resolved
3/20/2025	Unknown	March Strategizing Workshop Attendee	Availability of mitigation for residents?	Cumming Group	There are actions within the Plan that emphasize partnerships and programs to provide resources to residents to support GHG mitigation.	Resolved
3/20/2025	Unknown	March Strategizing Workshop Attendee	Has this plan been shared with youth? OYAC? High schools?	Cumming Group	The City facilitated a General Public Comment period and two public workshops for all residents and age groups.	Resolved
3/20/2025	Unknown	March Strategizing Workshop Attendee	Add to historical intro in CAPRO (?)  1. Dupont chemical plant 1956-1998 20 years remediation 2. Zhuc (?) 96 capped and abandoned gas wells	Cumming Group	Comment is repeated through a separate comment below which has been addressed there.	Resolved
3/20/2025	Unknown	March Strategizing Workshop Attendee	School district food services link with local farms to purchase local fruit and produce for student meals	Cumming Group	Reference to sustainable food systems has been added in G-3.3 which lists partnerships with school districts on key topics.	Resolved
4/1/2025	Daniel Muelrath	Diablo Water District (DWD)	For your diesel vehicles have you looked at Renewable Diesel to reduce your GHGs?	Cumming Group	The City will take this under advisement.	Resolved
4/2/2025	Gary Farber	N/A	Re: Municipal Electricity:  Report indicates that the city uses both PG&E and MCE electricity (2.2.2 on p. 17). The city should use MCE 100% renewable power as soon as this change can be made.	Cumming Group	This has been addressed through the goals, targets, and actions in the CAP.	Resolved
4/1/2025	Daniel Muelrath	Diablo Water District (DWD)	How does this take into account solar already installed or agencies like DWD that are nearly carbon neutral and will be by Dec 21, 2027?	Cumming Group	Appendix revisions speak to this point: "This also does not include emissions tied to other agencies that service Oakley, such as Diablo Water District or nearby transit agencies."	Resolved
4/2/2025	Gary Farber	N/A	The report does not address whether there are toxic waste facilities where sea level rise could cause toxins that are below the surface to migrate beyond their current field to areas where the toxins would cause danger to important ecosystems and to human-occupied areas. See the CA DTSC's Sea Level Rise web page at https://dtsc.ca.gov/climate-change/	Kimley Horn/Cumming Group	Language has been inserted to address this point.	Resolved

Date	Name/Source	Role/Affiliation	Comment	Resolver	Resolution or Response	Status
4/5/2026	Dapushka	N/A	Stop wasting time, and money on this nonsensel The 15 minute City with a bicycle? Here? Come on? There are areas of this city where streets need resurfacing. Spend money there. Require residents to keep up property. I saw photos of trash 6 feet high built up at the apartment complex on Carol Lane. Like a 3rd world country! It has taken all my strength not to blast it on X. Let whatever farmers you have left be farmers. Let people just be for God's sake! Go to China, and speak to them about the pollution they create that comes to this area via the Jet Stream. Worry about the homeless on narcotics walking around, and sleeping on the streets here. This nonsense Climate business is over.	Cumming Group	The City will take this under advisement.	Resolved
4/1/2025	Daniel Muelrath	Diablo Water District (DWD)	numbering doesn't start at 1.)	Cumming Group	Numbering has been revised to start at 1.	Resolved
4/1/2025	Daniel Muelrath	Diablo Water District (DWD)	Higher sea level (bay / delta) levels will compound the impacts of high precipitation events.	Kimley Horn/Cumming Group	Language has been inserted to address this point.	Resolved
4/1/2025	Daniel Muelrath	Diablo Water District (DWD)	The average annual may stay near consistent, but storms are projected to have higher rain intensities.	Kimley Horn/Cumming Group	Language has been inserted to address this point.	Resolved
4/6/2025	Zoe Siegel	Greenbelt Alliance	Important Modifications to Asset Vulnerability Table The Asset Vulnerability and Climate Hazard Risks Table (Table 4, page 28), lists out the risks and where the city plans to take action. The mitigation strategies for precipitation, flooding and sea level rise are all essentially interchangeable (eg, precipitation and SLR cause flooding) and should be in one column.  Additional recommendations include:  • Add a Legend or Clarify Definitions: "Take Action" vs. "Accept Risk" could be interpreted in many ways. A brief legend could define:  o What qualifies as a "Take Action" level of risk (e.g., high vulnerability + high consequence?)  o What "Accept Risk" means — does it imply low vulnerability, or just lower priority?  o Whether "Take Action" implies an existing adaptation plan or a need for one.	Kimley Horn/Cumming Group	Language has been inserted to address this point.	Resolved
4/6/2025	Zoe Siegel	Greenbelt Alliance	Indicate Time Horizon or Trend: Are these risks current, near-term, or long-term (e.g., 2050 vs. 2100)?  This would help prioritize adaptation investments based on when impacts are expected.  Link to Existing Plans or Actions. Add icons or footnotes indicating whether an asset: Already has a mitigation/adaptation plan. Has funding allocated or an ongoing project. Is under jurisdiction of a specific agency (for accountability or coordination).  Group or Layer Assets by Type or System Grouping assets by sector (natural, infrastructure, community) could show which systems are most broadly exposed. For instance: Ecosystems: Legless Lizard Preserve, Big Break, etc. Lifeline Infrastructure: Water, utilities, hospitals, roads. Community Assets: Downtown Oakley, schools, housing.	Kimley Horn/Cumming Group	Language has been inserted to address this point.	Resolved
4/10/2025	Paul Seger	Sierra Club	Establish a "Climate Resilience Impact Fee" fund, based on parcel-level flood, fire, and heat risk data, and supported by CEQA nexus findings.	Cumming Group	The City will take this under advisement but will not include in the CAP at this time.	Resolved
4/10/2025	Paul Seger	Sierra Club	Adopt electrification and EV reach codes effective 2026, and promote builder access to CalGreen Tier 2 incentives, federal 45L tax credits, and CEC's \$25M reach code implementation support fund.	Cumming Group	The City will take this under advisement but will not include in the CAP at this time.	Resolved
4/10/2025	Paul Seger	Sierra Club	Better attract public and private investment through a CAP that is enforceable (will make the city more favorable for various funding and grants, less vulnerable to higher insurance risk scoring/exclusion from	Cumming Group	Funding section includes Actions that aim to be enforceable and effectively attract public and private investment.	Resolved

Date	Name/Source	Role/Affiliation	Comment	Resolver	Resolution or Response	Status
4/10/2025	Paul Seger	Sierra Club	The CAP is riddled with vague language like "consider incentives," "explore options," and "support sustainability efforts" without any measurable goals, deadlines, or enforcement	Cumming Group	Before finalizing and publishing, completed a pass to ensure at least all targets and actions are measurable/quantifiable/have deadlines to the extent feasible.	Resolved
3/20/2025	Unknown	March Strategizing Workshop Attendee	Let's be an example for Contra Costa Cities	Cumming Group	Comment has been integrated as a short statement in the Introduction.	Resolved
4/10/2025	Paul Seger	Sierra Club	Require Enforceable Deadlines, Metrics, and City Council Oversight	Cumming Group	CAP integrates enforceable deadlines and metrics to the extent possible.	Resolved
3/20/2025	Unknown	March Strategizing Workshop Attendee	(Re: G-2.1) A non-profit, special districts etc.	Cumming Group	CBOs are explicitly mentioned in the next item, no further changes needed.	Resolved
3/20/2025	Unknown	March Strategizing Workshop Attendee	(Re: G-2.1) Coordinate with Co	Cumming Group	CO could mean community organizations or county but hard to say without context. With reference to "jurisdictions" at many levels, no further changes are needed.	Resolved
4/1/2025	Daniel Muelrath	Diablo Water District (DWD)	(Re: G-2.3) DWD should be part of this too.	Cumming Group	DWD has been added accordingly.	Resolved
3/20/2025	Unknown	March Strategizing Workshop Attendee	(Re: G-2.3) Define collaboration	Cumming Group	This item doesn't mention collaboration but it does mention partnering, which is further defined it in the Actions (which were not included in the workshop) so this comment is integrated.	Resolved
4/2/2025	Gary Farber	N/A	(Re: G-3.1, also applies to G-3.2): While the State requires local jurisdictions to report local climate impacts in terms of GHG emissions, the calculations for this metric rely on an array of assumptions that may or may not be close to reflecting real conditions. And GHG emissions reports are not very informative to the general public as to the specific types and nature of actions being undertaken to diminish climate impacts.  What would be more useful for the community, and policymakers, to track progress is to report existing conditions and changed conditions of specific systems that impact climate. Such reporting could be updated every one to two years, and report actual quantities – so that residents can gain a real understanding of how much progress has occurred, and how much remains to be done (i.e. the "opportunity" for additional progress in addressing the climate crisis).  Example items to monitor, in total community quantities (where "community includes residential and commercial properties):  Space Heating, gas systems, gas to heat pump alterations (community and municipal)  Water Heating, gas systems, gas to heat pump alterations (community and municipal)  Total vehicles, electric vehicles, plug-in hybrid vehicles (community and municipal)  EV charging at existing multifamily (MF) communities	Cumming Group	The City takes these examples under advisement and will consider them upon implementation.	Resolved
4/8/2025	Marti Roach	350 Contra Costa	A dashboard and regular reports to the public are important accountability measures.  These should indicate metrics on actual actions taken that implicitly reduce greenhouse gas emissions. For example, the quantity of municipal, residential and commercial buildings that transitioned to operating with GHG free appliances. This plan, in general, lacks measurable targets and measurable actions—key to clear action pathways and accountability.	Cumming Group	The City takes these examples under advisement and will consider them upon implementation.	Resolved
3/20/2025	Unknown	March Strategizing Workshop Attendee	(Re: G-3.3) Do this more than annually!	Cumming Group	The City will take this under advisement.	Resolved
4/6/2025	Zoe Siegel	Greenbelt Alliance	S. Secure Additional Funding for Adaptation to Minimize Taxpayer Burden (Goal G-4: Climate Finance)     Apply for federal/state climate grants: Pursue FEMA, California Adaptation Grants, and Infrastructure Resilience Funds.      Implement a climate resilience fee: Introduce developer fees for new construction in high-risk areas to fund local adaptation measures.      Collaborate with regional partners: Work with Contra Costa cities to secure joint funding for transportation, flood control, and resilience projects.	Cumming Group	The first suggestion (federal/state climate grants) and the third suggestion (collaborating with regional partners) are already reflected here in the Actions. The second suggestion (climate resilience fee) has been considered but ultimately not integrated.	Resolved

Date	Name/Source	Role/Affiliation	Comment	Resolver	Resolution or Response	Status
4/8/2025	Marti Roach	350 Contra Costa	Funding. It is commendable that you addressed funding as an action area. In our experience, the only way a municipality can move forward significantly is to allocate dedicated funds from the general fund or another stable funding stream to anchor the necessary staff time and/or consultant assistance. Grants can supplement, but this effort will fail to reach its timed targets with no committed core funding.  Related to this, your FTE estimates in the goal table are unclear as they do not indicate the time-frame needed for the FTE requirement. What is your baseline estimate of the FTEs needed between now and 2040 to significantly lead this work?	Cumming Group	Language/fine tuning in the ROM Cost columns related to FTEs have been added accordingly.	Resolved
3/20/2025	Unknown	March Strategizing Workshop Attendee	Monitor federal EPA (funding opportunities)	Cumming Group	Federal funding is included in Actions that were not included in the workshop materials, so no action needed.	Resolved
4/10/2025	Paul Seger	Sierra Club	There is no dedicated funding plan for implementing their sustainability goals, which makes their entire strategy meaningless.	Cumming Group	A key action in the CAP is developing a funding strategy.	Resolved
4/10/2025	Paul Seger	Sierra Club	Oakley's CAP is filled with language like "explore," "consider," and "support." These are not action verbs. They do not meet the standard of SB 379, AB 1279, or the Governor's Executive Orders requiring measurable emissions reduction and resillence progress.	Cumming Group	Did a pass replacing some of this language with stronger action verbs for enforceability.	Resolved
4/1/2025	Mike Moore	Diablo Water District (DWD)	(Re: gas well sites within the East Cypress Corridor Specific Plan) I would like to bring to your attention an issue that would be of direct concern for the City of Oakley but only tangentially concerning the Climate Action Plan.	Cumming Group	This falls outside of the scope for this CAP, but will be take under advisement by the City.	Resolved
4/8/2025	Marti Roach	350 Contra Costa	Recommended areas for new actions: Note: the first three are from the SPUR Toolbox on transitioning to zero pollution building equipment. https://www.spur.org/sites/default/files/2024-04/SPUR_Fossil_Free_Heat.pdf  1. Develop programs with oversight from building inspectors to allow licensed contractors to permit, inspect, and certify installations of zero-emission appliances.  2. Streamline city permitting and inspections and amend local zoning and planning codes to reduce barriers to heat pump installation, including restrictions on available space.  3. Ensure that contractors are legally able to offer temporary loaner gas furnaces and water heaters (or 120V heat pump water heaters) while permanent zero-pollution equipment is being installed.  4. Exploring adding incentives for heat pump and induction stove technology in the permitting process.  5. Partner with MCE, community groups to identify ways to support low-income households making the transition to heat pump technology.	Cumming Group	Recommended additional actions are all too specific to heat pumps, so no additional action is needed, but the City will take these under advisement.	Resolved
4/2/2025	Gary Farber	N/A	Replace such terms as "decarbonization", "decarbonize", etc. with such terms as "electrification", "phasing out GHG emissions" and "phasing out fossil fuels". Science tells us that we need to phase out not only CO2, but also methane (the primary ingredient in natural gas) and other warming gasses	Cumming Group	Per 350 Contra Costa's similar note, several suggested terminology changes have been made accordingly.	Resolved
4/8/2025	Marti Roach	350 Contra Costa	Revise to: "Reduce overall energy demand by electrifying municipal buildings and instituting other energy efficiency measures."  (decarbonization covers burning fossil fuels and embodied carbon so is less useful a term)	Cumming Group	This comments aligns with a similar comment from GF. Recommendation has been made with a few tweaks.	Resolved
4/8/2025	Marti Roach	350 Contra Costa	Add an Action: "When HVAC and water heater systems need replacing, replace with heat pump technology."     Add an Action: "Replace cooktops, when needed, with induction technology."	Cumming Group	B-1.2 Action 2 covers both items, no additional changes are needed.	Resolved

Date	Name/Source	Role/Affiliation	Comment	Resolver	Resolution or Response	Status
4/2/2025	Gary Farber	N/A	Re: Existing Municipal Buildings:  A) B1.1 is described as phasing out fossil fuels ("decarbonization" in the report's terminology), but does not mention existing fossil fuel systems! All existing fossil fuels systems should be evaluated for replacement with electric systems, ASAP.  B) To focus resources where they will be most useful, audits should only be required on buildings that are more than 20 years old. This is a reflection of the fact that, in terms of energy efficiency, the state's building energy code was fairly stringent 20 years ago (although it did not address building GHG emissions at that time).  C) Rather than 'significant remodeling' being a trigger for municipal building audits, any municipal building that is over 20 years old that has not had an energy audit in over 15 years ought to receive an energy audit ASAP.  D) LED lighting? Most older buildings use fluorescent lighting. LED lighting is modestly more energy-efficient. However, whether switching from fluorescent to LED is practical should be decided after an energy audit that would assess the cost and energy savings of a variety of energy upgrades. Certainly, any current fluorescent lighting should be replaced with LED lighting ASAP, and any current fluorescent tighting should be replaced with LED when the fluorescent lighting has reached the end of its useful life.	Cumming Group	(A) GF has similar comments throughout the report requesting that "decarbonization" be replaced with electrification and be more specific about fossil fuels. This also aligns with 350 Contra Costa's comments. Terminology revisionshave been made throughout accordingly.  (B) New mention of "older buildings" now in B-1.2 action 2  (C) Do not recommend removing the item about significant remodels being a trigger, but now have new mention of "older buildings" and have also added a new mention about "recent" audits  (D) LED lighting is already in the Actions in B-1.1, no action needed	Resolved
4/8/2025	Marti Roach	350 Contra Costa	(Re: Goal B-1) Revise to: "Electrify appliances in municipal buildings and assets by 2035."	Cumming Group	This aligns with GF's comments as well; suggestions have been made accordingly.	Resolved
4/2/2025	Gary Farber	N/A	Re: Existing Residential and Commercial Buildings:  A) Draft calls for adoption of "Energy-Efficient" Appliances. Building energy-efficiency is very important, and the report's inclusion of building energy audits for existing buildings are welcome. However, the State's building energy code already calls for use of energy-efficient space and water heating systems. Therefore, the emphasis should change from energy-efficient appliances to phasing out fossil fuel (e.g. natural gas) appliances within the existing building stock. The city should establish a strong program of education and incentives to help property owners understand the benefits of switching to electric systems, and to provide financial help where necessary.  B) Is financial support necessary for Oakley residents to use clean, renewable electricity? MCE rates are almost identical to PG&E rates as of March 2025.  C) A very important element is missing from the draft plan's suggested policies regarding existing buildings: Preparing for the upcoming elimination of natural gas water heating and space heating systems, per BAAD regulations. The city needs to help educate property owners about the new regulations, and the need to assess whether their properties are ready for the switch from gas to heat pump water and heat pump space conditioning systems. Furthermore, the city should help those for whom upgrade costs will exceed their financial means.	Cumming Group	(A) Energy efficient appliances for existing housing stock is already in B-1.2 action 2. Various actions across B-1 mention educational resources and incentives, but language has been clarified little more in B 1.2 action 5.  (B) Language re: financial support for low-income community members should not be removed entirely; but content has been moved to a later action where it worked a little better.  (C) B-1.2 action 2 has been tweaked to mention educational resources.	Resolved
4/8/2025	Marti Roach	350 Contra Costa	(Re: B-1.2): Replace with "Existing residential and commercial buildings will be more energy efficient and rely on non-polluting energy by 2040."	Cumming Group	As this aligns with GF's comments as well, have made a revised adjustment accordingly.	Resolved
3/20/2025	Unknown	March Strategizing Workshop Attendee	Need building electrification code by City - needs CEC approval. Define collaborate.	Cumming Group	The City will take this under advisement. No changes made to language.	Resolved

Date	Name/Source	Role/Affiliation	Comment	Resolver	Resolution or Response	Status
4/2/2025	Gary Farber	N/A	Re: New Municipal Buildings:  A) The 2025 CA building energy code (effective date 1/1/26) will make electric (i.e. heat pump space and water heating the "standard" (Prescriptive) systems for most buildings. For its municipal buildings, Oakley could simply require that all new buildings use electric heating systems (which inexplicably the current draft SAP does not call for). (see item 2A on page 3 of this letter for additional information on new building electrification trends)  B) There is no need to call for "solar ready" construction. The current CA building energy code includes a Prescriptive solar electric mandate for most buildings, and calls for solar ready accommodations when solar electric systems are not installed.  C) At both existing and new municipal buildings, the CAP should establish a goal for these buildings to include solar electric (PV) collectors, whole building battery systems, and EV charging that is tied to the solar/battery system.	Cumming Group	(A) B-1.3 specifically is about establishing energy efficiency requirements like electric appliances for new buildings. No further action needed.  (B) Have "softened" B-1.3 action 1 accordingly and now specifically mention alignment with state goals.  (C) B-1.2 last action already includes PV installation/energy storage incentivization for different building types. EV charging is in a different category so doesn't specifically need a call out here.	Resolved
4/2/2025	Gary Farber	N/A	Re: New Residential and Commercial Buildings:  A) The 2025 CA building energy code (effective date 1/1/26) will make electric (i.e. heat pump) space and water heating the "standard" 4 systems for all residential, and most non-residential, buildings. Already, the current 2022 energy code, which (for the first time) contained a residential building Prescriptive requirement for heat pump water heating in some Climate Zones, heat pump space conditioning in other Climate Zones, and heat pump space conditioning for most nonresidential buildings in all Climate Zones, may be spurring the large majority of new buildings in the State that are being built as all-electric. With the State's building energy code already considered to be fairly stringent in terms of energy efficiency measures (envelope, lighting and mechanical), and with most new buildings now being designed as all-electric (per IOU data referenced in footnote 5), I recommend that the city focus their efforts on phasing out fossil fuel use within the existing building stock, rather than investing time and effort in developing greater "energy-efficiency" requirements for new buildings. Furthermore, it is well established that building departments in CA often miss errors in energy compliance reports, in construction documents (i.e. not specifying compliant systems and materials), and in the field miss noncompliant construction features. Improving training of building department staff that are tasked with energy code compliance can be very helpful in improving compliance and reducing energy use and GHG emissions.	Cumming Group	(A) B-1.2 already has goals related to existing housing stock retrofits.  (B) Have "softened" the solar-ready note and it now mentions alignment with state goals.	Resolved
4/2/2025	Gary Farber	N/A	B) There is no need to call for "solar ready" construction. The current CA building energy code includes a Prescriptive solar electric mandate for most buildings, and calls for solar ready accommodations when solar electric systems are not installed.	Cumming Group	(A) B-1.2 already has goals related to existing housing stock retrofits.      (B) Have "softened" the solar-ready note and it now mentions alignment with state goals.	Resolved

Date	Name/Source	Role/Affiliation	Comment	Resolver	Resolution or Response	Status
4/10/2025	Paul Seger	Sierra Club	To avoid placing unfunded mandates on homeowners later, the CAP should commit to front-loading climate responsibility at the point of new development—when it is most feasible and cost-effective. We propose the following:  Climate Resilience Impact Fees:  1.New development must contribute to local infrastructure that mitigates its own impact (e.g., stormwater upgrades, urban forestry, cooling infrastructure).  2.Tier fees based on risk zone (e.g., creek-adjacent parcels, heat islands, areas with known poor drainage).  3.Direct revenues to a Climate Resilience Fund, publicly tracked.  Reach Code Requirement for All Permitted Construction by 2026:  1.Require all-electric, solar-ready, EV-ready new builds  2.Offer rebates to developers who build above code via state and federal incentives  3.Include performance compliance deadlines within 18 months of plan approval  Equity Offset Program:  1.Developer contributions must include a small percentage for retrofits and rebates to help low-income homeowners upgrade older buildings (e.g., for electrification, shade installations, floodproofing)	Cumming Group	The City will take these recommendations under advisement, but will not integrate into the CAP at this time.	Resolved
4/10/2025	Paul Seger	Sierra Club	The plan does not require net-zero energy construction or all-electric	Cumming Group	Actions already have similar goals accordingly.	Resolved
	Daniel Muelrath		building mandates for new projects. (Re: B-1.3) Energy and water	Cumming Group	Language has been revised accordingly.	Resolved
4/8/2025	Marti Roach	350 Contra Costa	The plan does not reference the Bay Area Air District Appliance rules taking effect in 2027, 2029 and 2031. https://www.baaqmd.gov/rules-and-compliance/ruledevelopment/ building-appliances. Targets and Actions should include planning/action supporting the upcoming elimination of natural gas water heating and space heating systems through education, policies and practices.	Cumming Group	Reference has been added to alignment with regional and statewide regulations in B-1.2 and B-1.3.	Resolved
4/10/2025	Paul Seger	Sierra Club	We urge the City to introduce a Climate Resilience Fee for new developments in vulnerable areas. Such a fee would fund necessary adaptation projects (e.g., levee reinforcement, creek buffer restoration) and ensure that developers share the long-term costs of climate adaptation, rather than shifting these burdens to homeowners.	Cumming Group	The City will take these recommendations under advisement, but will not integrate into the CAP at this time.	Resolved
3/20/2025	Unknown	March Strategizing Workshop Attendee	(Re: Goal B-1) Free or cheap energy is core to economic success	Cumming Group	The City will take this under advisement.	Resolved
3/20/2025	Unknown	March Strategizing Workshop Attendee	Work with contractors (landscape) that use electrical equipment. Non-gas powered equipment, trucks/vehicles that are electric, etc.	Cumming Group	The City will take this under advisement. Support for vehicle electrification and Evs is included in the CAP.	Resolved
4/2/2025	Gary Farber	N/A	Re: Landscape Maintenance Equipment: This category does not appear to be included in the draft CAP. Gasoline powered landscape maintenance equipment is a large source of both toxic air pollutants and GHG emissions. While CA has banned the sale of many types of gasoline powered maintenance equipment, the State has not banned there use. Many local jurisdictions have banned their use – to reduce both air and noise pollution. Oakley ought to consider phasing out the use of such fossil fuel burning equipment at both municipal operations and throughout the community.	Cumming Group	The City will take these recommendations under advisement, but will not integrate into the CAP at this time.	Resolved
3/20/2025	Unknown	March Strategizing Workshop Attendee	Solar for homes = cheaper	Cumming Group	The City will take this under advisement.	Resolved
4/10/2025	Paul Seger	Sierra Club	The solar energy targets are weak, relying on "encouragement" rather than mandates for commercial/industrial buildings to install on-site renewables.	Cumming Group	The City will take these recommendations under advisement, but will not integrate into the CAP at this time given present resources.	Resolved
3/20/2025	Unknown	March Strategizing Workshop Attendee	Plan your trips - encourage neighbors to coordinate shopping	Cumming Group	The City will take this under advisement.	Resolved
4/10/2025	Paul Seger	Sierra Club	There is no serious commitment to public transit expansion—just vague references to "collaboration"	Cumming Group	Public transit expansion does not fall under the City's jurisdiction, but the City takes this under advisement.	Resolved

Date	Name/Source	Role/Affiliation	Comment	Resolver	Resolution or Response	Status
4/2/2025	Gary Farber	N/A	Re: Encourage Transition to Electric Vehicles:  A) Private Vehicles: Accommodate Electric Vehicles (EVs) (T-2.1 (p. 40): There is now fairly wide availability of public charging infrastructure. However, public chargers are more expensive to use, and less convenient, than chargers located where residents live. Most plug-in hybrids cannot use DC fast charging has a negative impact on battery life. The 2025 CalGreen 'green building' code (effective date 1/1/26) will require generous charging infrastructure for new multi-family (MF) buildings. However, there are no State requirements for adding charging infrastructure to existing MF buildings (except for certain alterations and additions). Low-power overnight EV charging is the most convenient and least expensive way to charge. However, most residents of existing MF communities do not have access to power for charging plug-in vehicles. Therefore, it is incumbent upon Oakley to provide education and incentives to owners of existing MF communities (excepting dwellings equipped with private garages). Note that BAAD has an incentive program for adding EV charging infrastructure to existing MF communities; however, most landlords may not be aware of EV charging infrastructure incentive programs.  B) Mandate, or encourage, solar electric plus battery systems at new commercial EV charging stations. Offer incentives for retrofitting solar plus batteries at existing commercial EV charging stations. Offer incentives for retrofitting solar plus batteries at existing commercial EV charging stations. Offer proprams of the provide and on the grid, and would allow the charging station to provide some charging even during grid blackouts.	Cumming Group	(A) Point addressed re: multi-family chargers, have added reference to it in T-2.1 action 4.  (B) The City will take this under advisement.	Resolved
3/20/2025	Unknown	March Strategizing Workshop Attendee	(Re: Goal T-2) Concerns grid can't keep up with demand	Cumming Group	Already have promoting grid resilience embedded throughout this document, so no further action here is needed.	Resolved
4/10/2025	Paul Seger	Sierra Club	The CAP fails to mandate EV charging infrastructure in all new developments.	Cumming Group	The City will take these recommendations under advisement, but will not integrate into the CAP at this time.	Resolved
3/20/2025	Unknown	March Strategizing Workshop Attendee	for swapping as powered city vehicles for Eye		"Specific plan" is well-reflected in the actions; current targets have not been changed but the City will take this under advisement.	Resolved
4/2/2025	Gary Farber	N/A	Re: Municipal Fleet fossil fuel phase-out:  Municipal Fleet fossil fuel phase-out: T-2.2 (p. 40) calls for developing a plan for all new municipal vehicles to be ZEVs. However, the SAP provides no timetable, and it is likely that not all EVs or other possible ZEVs will meet necessary criteria in every case. Therefore, we suggest that the city adopt the following plan, to take affect immediately upon adoption:  A) All new city vehicles shall be EVs (or other ZEVs) when available ZEVs meet city criteria.  B) Where available EVs do not meet city criteria, new city vehicles shall be plug-in hybrids where they meet city criteria; where available plug-in hybrids do not meet city criteria, new city vehicles shall be "mild" hybrids.	Cumming Group	The plan does provide a timetable (it says transition by 2040) so no additional response to that point is needed.  The plan already says that newly-purchased city vehicles should be ZEVs so no additional response is needed.  All fleet vehicles would eventually be ZEV through the "fleet management plan" that is developed.	Resolved
4/1/2025	Mike Moore	Diablo Water District (DWD)	There should be a definite plan to transition from internal combustion trucks to fully electric vehicles in the city's fleetheavy duty electric vehicles are only 6-8 years behind electric and will catch up if the right conditions are met.  The City will take these recommendations under advisement, but will not integrate into the CAP at this time.		advisement, but will not integrate into the CAP at this time.	Resolved
4/10/2025	Paul Seger	Sierra Club	The CAPdoes not require businesses or government buildings to transition fleet vehicles to electric.	Cumming Group	The CAP includes actions pertaining to fleet vehicle transition. Fleet requirements for businesses is left to CARB to address and does not fall under Oakley's jurisdiction.	Resolved
4/2/2025	Gary Farber	N/A	Re: Smart Zoning and Land-use Planning:  Oakley is a classic example of suburban sprawl type development. I applaud the CAP for addressing the need to encourage more compact development in locations that will not only decrease dependence on automobiles, and encourage the use of auto alternatives (transit and active transportation), but also create more convenient mixed use, walkable neighborhoods for those that prefer to live in areas that are not so focused on accommodating private motor vehicles.	Cumming Group	The City will take this under advisement.	Resolved

Date	Name/Source	Role/Affiliation	Comment	Resolver	Resolution or Response	Status
4/6/2025	Zoe Siegel	Greenbelt Alliance	Strengthen Flood Resilience (Aligns with Goal A-1: Improve City Infrastructure)     Expand stormwater capture projects: Install rain gardens, infiltration basins, and green infrastructure in municipal areas to reduce urban flooding.     Upgrade drainage systems: Conduct flood risk mapping and enhance stormwater basins to protect residential areas near Marsh Creek and East Cypress Road.     Coordinate with Contra Costa agencies: Improve levee maintenance and	Kimley Horn/Cumming Group	Language has been added accordingly.	Resolved
			drainage infrastructure by leveraging partnerships with Contra Costa County and regional flood control agencies.  3. Increase Wildfire Preparedness (Goal A-1.1: Wildfire Management)			
4/6/2025	Zoe Siegel	Greenbelt Alliance	Improve fire buffer zones: Establish vegetation clearing programs near Oakley's grassland-urban interface. Mandate defensible space around homes and businesses to lower the risk of total property loss.  Enhance emergency evacuation plans: Develop fire escape route maps and ensure clear signage in high-risk zones.  Incorporate prescribed burns: Work with regional fire departments and Indigenous groups on controlled burns to reduce wildfire fuel loads.	Kimley Horn/Cumming Group	Language has been added accordingly.	Resolved
3/20/2025	Unknown	March Strategizing Workshop Attendee	Establish a tree/urban forest master plan	Kimley Horn/Cumming Group	Language has been added accordingly.	Resolved
4/6/2025	Zoe Siegel	Greenbelt Alliance	2. Improve Heat Resilience to Lower Energy Costs and Increase Livability (Goal A-1.2: Extreme Heat Adaptation by 2030)  • Expand tree canopy: Target low-income and high-heat neighborhoods for shade tree planting and prioritize drought-resistant, native species. This would also reduce cooling costs for homeowners and businesses.  • Install shade structures and cooling amenities: Provide splash pads, shaded bus stops, and public drinking fountains in heat-vulnerable areas.  • Retrofit public buildings as cooling centers: Upgrade community centers with battery storage and backup power to function as cooling hubs.	Kimley Horn/Cumming Group	Language has been added accordingly.	Resolved
3/24/2025	Mike Moore	Diablo Water District (DWD)	Consider adding a new action about exploring water reduction guidelines for new municipal/community-wide buildings, per an earlier DWD note.	Cumming Group	The City will take these recommendations under advisement, but will not integrate into the CAP at this time.	Resolved
4/6/2025	Zoe Siegel	Greenbelt Alliance	4. Implement Sea Level Rise Protections to Prevent Property Devaluation (Goal A-3: Infrastructure Design for Climate Impacts)  • Enhance coastal defenses: Work with state and federal agencies to monitor sea level rise projections  • Update building codes: Require elevated foundations and flood-resistant materials in new developments near flood-prone zones.  • Support wetland restoration: Restore marshland buffers to absorb storm surges and prevent coastal erosion.	Kimley Horn/Cumming Group	Language has been added accordingly.	Resolved
3/20/2025	Unknown	March Strategizing Workshop Attendee	(Re: Goal A-3) Every 5 years feels too long. Maybe every 2?	Cumming Group	The City will take these recommendations under advisement, but will not integrate into the CAP at this time.	Resolved
3/20/2025	Unknown	March Strategizing Workshop Attendee	(Re: Goal A-3.3) Should be annual review	Cumming Group	"Annual" has been added accordingly.	Resolved
4/1/2025	Daniel Muelrath	Diablo Water District (DWD)	(Re: Goal A-3.3) Mapping and evacuation road routes.	Cumming Group	Language has been added accordingly.	Resolved

Date	Name/Source	Role/Affiliation	Comment	Resolver	Resolution or Response	Status
4/10/2025	Paul Seger	Sierra Club	The CAP should include legally enforceable deadlines and specific performance measures for key areas—such as flood resilience (and what that means), shoreline and creekbank protection, and riparian habitat restoration. This must include clear metrics for developer contributions to adaptation infrastructure that will mitigate risks such as sea level rise and groundwater contamination.	Cumming Group	A recent pass has been done to make Actions are measurable/quantifiable.	Resolved
4/1/2025	Daniel Muelrath	Diablo Water District (DWD)	This is vaguewhat does it mean?	Kimley Horn/Cumming Group	Language has been added accordingly.	Resolved
3/20/2025	Unknown	March Strategizing Workshop Attendee	Dupont chemical former plant     George and abandoned gas wells	Cumming Group	The City will take this under advisement, though this does not fall within the scope of the CAP.	Resolved
4/10/2025	Paul Seger	Sierra Club	The CAP lacks policies for mandatory conservation easements, which would ensure that some land is permanently protected.	Cumming Group	Addressed through Kimley Horn's edits.	Resolved
4/1/2025	Daniel Muelrath	Diablo Water District (DWD)	(Re: A-4.3) Should apply to stormwater, water, sanitary, etc.	Cumming Group	Language has been added accordingly.	Resolved
4/10/2025	Paul Seger	Sierra Club	Oakley has no strategy to prevent farmland destruction, as evidenced by the Bridgehead project and previous rezoning actions that replaced prime agricultural land with warehouses.	Cumming Group	The City will take these recommendations under advisement, but will not integrate into the CAP at this time.	Resolved
3/20/2025	Unknown	March Strategizing Workshop Attendee	Work with entities doing this work! Contra Costa Resource Conservation District, Land Trusts Cooperative Extension. All of the above if possible.	Cumming Group	New explicit mentions to parallel organizations have been added accordingly.	Resolved
4/1/2025	Daniel Muelrath	Diablo Water District (DWD)	Seems like a miss to not mention Sustainable Coco somewhere in the CAP as they are a huge potential resource.	Cumming Group	Have added direct mention under G-2.2 (Develop guidelines for effective engagement and collaboration with CBOs)	Resolved
	Daniel Muelrath		(Re: Table B-1) What about renewable diesel?	Cumming Group	The City will take this under advisement.	Resolved
3/24/2025	Mike Moore	Diablo Water District (DWD)	There are references in Oakley Climate Action Plan to a 2018 Local Hazard Mitigation Plan (LHMP). The City Council of Oakley approved the 2024 Oakley LHMP Annex on February 11, 2025 and the County Board of Supervisors approved the County LHMP Vol 1 at the November 5, 2024 Board Meeting. These are the following CAP pages where I found references to the 2018 LHMP: 66, 70, 71, 73, 80, 81, 82.  KS: This is a comment we also received from DWD. We do need to update the document to reference the currently approved 2024 Hazard Mitigation Plan. Link to County's main page with Oakley's annex and County's plan: Local Hazard Mitigation Plan   Contra Costa County, CA Official Website	Kimley Horn/Cumming Group	Language has been added accordingly.	Resolved
4/1/2025	Mike Moore	Diablo Water District (DWD)	DWD has a series of detailed comments throughout Appendices C and D highlighted in purple. @KH team I have provided those PDF comments directly in my email thread.	Kimley Horn/Cumming Group	Language has been added accordingly.	Resolved

## CUMMING GROUP

////// BUILDING VALUE THROUGH EXPERTISE

# **City of Oakley**

Climate Action Plan

## **Public Comment Period: Summary of Feedback Addressed**

In response to the 100+ comments generated from the City of Oakley's Public Comment Period between March and April 2025, the project team organized, considered, and in many cases integrated Climate Action Plan (CAP) edits into the final CAP. A summary of major public comment feedback integrated into the final CAP is included below.

## **Enforceable Language**

In response to comments from members to of the public as well as climate organizations such as the Sierra Club and 350 Contra Costa, the final CAP includes changes to language to ensure that Targets and Actions are measurable and quantifiable to the extent feasible (e.g., replacing "Adopt policies" with "Require").

## **Buildings and Energy Section Refinement**

In accordance with feedback from members of the public as well as local climate organizations such as 350 Contra Costa and the Sierra Club, the final CAP includes a variety of refinements to the Buildings and Energy category. These edits include increased specificity in language by replacing terms like "decarbonization" with "electrification", adjustments to goals related to older buildings and building retrofits and their relationship to energy efficiency upgrades and appliance replacements, and clarification surrounding EV charging incentives and the transition to an electric municipal fleet.

## **Climate Vulnerability and Adaptation Iteration**

In response to comments from members of the public as well as peer agencies like the Diablo Water District, the final CAP includes adjustments in its references to future precipitation patterns, flooding/storm risk and resilience, wildfire risk, and extreme heat, in alignment with local subject matter experts.

## **Direct References to Collaborating Entities**

In accordance with comments from Oakley's March public workshop as well as peer agencies like the Diablo Water District, the final CAP includes more direct references to collaborating jurisdictions, entities, and organizations, such as Contra Costa County, Tri Delta Transit, Diablo Water District, and Sustainable Contra Costa.

#### **Date and Cadence Updates**

In response to wide-ranging comments regarding CAP enforceability and timeline for goals, the final CAP includes a variety of smaller adjustments to elements such as cadence for recurring activities, estimated completion dates, and other language adjustments.

## **RESOLUTION NO. -25**

# A RESOLUTION OF THE CITY OF OAKLEY PLANNING COMMISSION RECOMMENDING THE CITY COUNCIL ADOPT THE CITY OF OAKLEY CLIMATE ACTION PLAN 2025

**WHEREAS,** a Climate Action Plan (CAP) is a document that lays out a plan for how an agency will aim to reduce greenhouse gas (GHG) emissions, usually through decarbonization and greening efforts, and bolster infrastructural and community-wide resilience to the impacts of climate change; and

**WHEREAS**, the State of California has set forth climate goals for continued reduction of GHG emissions and total carbon neutrality by 2045; and

**WHEREAS,** the State's Climate Change Scoping Plan encourages local governments to adopt goals to reduce GHG emissions consistent with the State's goals which are 15% below 1990 levels by 2020, 40% below 1990 levels by 2030, and 80% below 1990 levels by 2050; and

WHEREAS, Oakley General Plan Program 6.2.B states, "Adopt and implement a Climate Action Plan by 2025 that complies with State greenhouse gas emission targets;" and

**WHEREAS**, adopting a CAP that complies with the State's GHG reduction targets is a crucial next step for the City to meet the State's GHG emission targets; and

WHEREAS, on November 14, 2023, the City Council adopted Resolution 111-23 for the purposes of soliciting Request for Proposals and Qualifications ("RFP") for the purposes of securing planning consulting services to support the City in completing a Climate Action Plan. The RFP included an amount not to exceed \$100,000, all of which was appropriated under Consulting for the Planning Division in the 2023-2024 Fiscal Year General Fund budget; and

**WHEREAS,** on March 26, 2024, the City of Oakley adopted Resolution 42-24 to formally develop a Climate Action Plan and engaged consultant Cumming Group to manage and execute this process; and

**WHEREAS**, the City of Oakley held a public workshop on November 18, 2024, focused on introducing the public to the concept of the CAP, the goals of the document, and receiving input on what the public wants to see as part of the document's adoption and implementation; and

WHEREAS, the City of Oakley held a public Joint Work Session On January 28, 2025, with the City Council and the Planning Commission with the goal of reporting out on the progress on the City of Oakley's CAP and review of the initial menu of goals, targets, and actions for the plan. The City Council and Planning Commission provided

feedback on the four sustainability categories (Governance and Leadership, Buildings and Energy, Transportation and Land Use, and Adaptation and Resilience) presented by the Cumming Group and Staff; and

WHEREAS, the City of Oakley held a second public workshop on March 20, 2025, provided the public with a more focused approach where Cumming Group presented the CAP Goals and Targets and asked the public to participate in a Stoplight Poll. The poll allowed the public to provide feedback on the goals and targets that would be outlined in the CAP; and

WHEREAS, The CAP is consistent with the Strategic and Thoughtful Growth Objectives within Oakley's Strategic Plan 27+, as it furthers the City's efforts to encourage objective decision-making versus subjective decision-making for application approvals to meet Oakley's vision and economic goals. This is done by focusing on formal plans and study outcomes; and

WHEREAS, The CAP aligns with the City of Oakley's Strategic Plan 27+ objectives, specifically the Strategic and Thoughtful Growth objective, by promoting environmental stewardship through goals related to energy efficiency, air quality, and greenhouse gas emissions. The Strategic Plan further recommends adoption and implementation of a Climate Action Plan by 2025 that meets the State's greenhouse gas reduction targets and supports the broader goals of the Oakley General Plan. The CAP supports the objectives and goals outlined in the Strategic Plan; and

WHEREAS, Pursuant to the California Environmental Quality Act ("CEQA") Guidelines Section 15060(c), the Climate Action Plan is potentially considered a project under CEQA; and

WHEREAS, Pursuant to CEQA Guidelines Section 15061(b)(3) the Climate Action Plan is covered by the "Common Sense" Exemption that excludes projects where "The activity is covered by the general rule that CEQA applies only to projects, which have the potential for causing a significant effect on the environment. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA."; and

WHEREAS, on or before April 25, 2025, the Notice of Public Hearing for the project was duly noticed in the East Bay Times, a newspaper of general distribution, was posted at Oakley City Hall located at 3231 Main Street, outside the gym at Delta Vista Middle School located at 4901 Frank Hengel Way, and outside the library at Freedom High School located at 1050 Neroly Road, and was mailed out to outside agencies, and parties requesting such notice; and

WHEREAS, on May 6, 2025, the Planning Commission opened the public hearing at which it received a report from City Staff and the City's consultant, oral and written testimony from the public, and deliberated on the project. At the conclusion of its

deliberations, the Planning Commission took a vote and adopted this resolution to recommend the City Council approve the City of Oakley Climate Action Plan 2025; and

WHEREAS, if any term, provision, or portion of these Findings or the application of these Findings to a particular situation is held by a court of competent jurisdiction to be invalid, void or unenforceable, the remaining provisions of these Findings, or their application to other actions related to the Project, shall continue in full force and effect unless amended or modified by the City; and

WHEREAS, these Findings are based on the City's General Plan, the City's Zoning Ordinance, and the information submitted to the Planning Commission at its May 6, 2025 meeting, both written and oral, including oral information provided by the applicant, as reflected in the minutes of such meetings, together with the documents contained in the file for the project (hereinafter the "Record").

**NOW, THEREFORE, BE IT RESOLVED THAT,** on the basis of the above findings of fact and the entire Record, the Planning Commission makes the following additional findings in support of the approvals:

- A. The foregoing recitals are true and correct and are incorporated by reference into this action;
- B. The Climate Action Plan conforms to the provisions and standards of the General Plan;
- C. The Climate Action Plan is consistent with the balance of the General Plan.
- D. The Climate Action Plan is necessary to implement the goals and objectives of the General Plan, specifically General Plan Program 6.2.B that states, "Adopt and implement a Climate Action Plan by 2025 that complies with State greenhouse gas emission targets;
- E. The Climate Action Plan is consistent with the Strategic and Thoughtful Growth Objectives within Oakley's Strategic Plan 27+, as it furthers the City's efforts to encourage objective decision-making versus subjective decision-making for application approvals to meet Oakley's vision and economic goals;
- F. The Climate Action Plan aligns with the City of Oakley's Strategic Plan 27+ objectives, specifically the Strategic and Thoughtful Growth objective, by promoting environmental stewardship through goals related to energy efficiency, air quality, and greenhouse gas emissions.
- G. The Climate Action Plan is consistent with the Strategic Plan's recommendation to adopt and implement a Climate Action Plan by 2025 that meets the State's greenhouse gas reduction targets and supports the broader goals of the Oakley General Plan;

**BE IT FURTHER RESOLVED THAT,** on the basis of the above Findings and the Record, the Planning Commission hereby adopts a resolution recommending the City Council adopt the City of Oakley Climate Action Plan 2025.

The project complies with Measure J Growth Management requirements.

Н.

**PASSED AND ADOPTED** by the Planning Commission of the City of Oakley at a meeting held on the 6<sup>th</sup> day of May 2025 by the following vote:

AYES:			
NOES:			
ABSENT:			
ABSTENTIONS:			
		APPROVED:	
ATTEST:		Diego Verduzco, Chair	Date
Kim Snodgrass, City Clerk	Date		



**DATE:** May 6, 2025

**TO:** Joshua McMurray, City Manager **FROM:** Evan Gorman, Associate Planner

Approved and Forwarded to the Planning Commission

SUBJECT: Cypress Ranch (Formerly Burroughs) Subdivision 9557 Design

Review and Final Development Plan (DR 25-01, FDP 25-01) -

Request for Design Review approval of floor plans and elevations and a final development plan for 191 single-family detached homes located in

the Cypress Ranch (TM 9557) subdivision.

## Summary

This is an application by KB Home North Bay ("Applicant") requesting Design Review (DR 25-01) approval of a development plan, elevations, floor plans, roof plans, conceptual landscape plans, colors and materials detail for 191 single-family residential lots located within the Cypress Ranch subdivision (formerly known as "Burroughs Subdivision") (Tentative Map 9557) ("Project"). The proposed homes consist of seven floor plans (five two-story plans and two single-story plans) ranging from 1,438 to 2,566 square feet of livable area. The project site is located on the north side of East Cypress Road, between Knightsen Avenue and Jersey Island Road each intersect East Cypress Road. The site is zoned P-1 (Planned Unit Development) District. (APNs: 032-081-025 & 032-081-026)



Figure 1 – Project Site (Center)





## Background

#### **GENERAL PLAN**

Residential Low/Medium (RLM) – This designation provides for moderately dense single-family residential development that is consistent with suburban uses. This designation allows for a higher density suburban neighborhood with smaller lots than those that are commonly seen in traditional urban and suburban neighborhoods. Primary land uses include detached single-family homes and accessory structures. Public and semi-public uses and similar and compatible uses are also allowed.

## **ZONING**

P-1 (Planned Unit Development) District – The purpose of the Planned Unit Development district is to provide an opportunity for large-scale or infill development to incorporate cohesive, site-specific design through the use of flexible zoning standards. In contrast to conventional regulations—typically intended for individual lot development—P-1 zoning enables context-sensitive planning that avoids the uniformity and design limitations that can result from applying standard regulations to complex or expansive sites.

#### **PROJECT SITE**

The 43.24-acre Cypress Ranch (formerly 'Burroughs') project site is located to the northeast of the intersection of East Cypress Road and Knightsen Avenue. The site is bordered to the west by the Delaney Park subdivision, to the south by East Cypress Road and unincorporated County land beyond, to the north and northeast by an underground section of the Contra Costa Canal, and to the east by both the Contra Costa Canal and Jersey Island Road. The City of Oakley previously owned a 27-acre portion of the site, which was later sold to KB Home. Seventeen lots from the resulting subdivision will be excluded from the KB Home development and transferred back to the City for future affordable housing development. Those 17 lots are not included in this Design Review application.

#### **ENTITLEMENT HISTORY**

On May 25, 2021, the City Council approved the Tentative Map for Subdivision 9557 and the associated Mitigated Negative Declaration through City Council Resolution No. 58-21. The Tentative Map received a three-year entitlement period. On July 9, 2024, the City Council approved a six (6) year extension of the approved tentative map.

## **Project Description**

The Design Review application features 191 single-family homes organized into two "neighborhoods" made up of three groups of typical lot sizes. The three groups





include the approximately 45' x 75' lots, 50' x 80' lots, and 65' x 80' lots. The homes come in seven different floorplans - two single-story and five two-story designs. Each of the seven house plans have three different possible styles, "Spanish", "Craftsman", and "Prairie". Each style has three different "schemes", with different paint and material colors. The seven floor plans range from 1,438 sf. to 2,566 sf. of livable area. Table 1 provides a summary of each plan's general features.



Figure 2 – Cypress Ranch, Front Elevations Excerpt

Table 1 – Summary of Proposed Plans

	Square Feet (Livable)	Stories	Bedrooms	Bathrooms	Garage Spaces
Plan 1	2,016	2	4	3	2
Plan 2	2,142	2	4	3	2
Plan 3	2,378	2	5	3	2
Plan 4	1,438	1	3	2	2
Plan 5	2,324	2	5	3	2
Plan 6	2,566	2	5	3	2
Plan 7	1,824	1	4	2	2

#### FINAL DEVELOPMENT PLAN

Final Development Plans are exhibits approved with rezones to P-1 (Planned Unit Development) that provide details on the proposed custom development standards for a large-scale development. The original Final Development Plan for the project site, approved in 2021, consisted of a diagram of the proposed lots for the subdivision along with development regulations and conceptual elevations for





homes. With this new application, KB Home is seeking to amend the Final Development Plan. The proposed Cypress Ranch Final Development Plan reflects small changes in the layout of the lots and subdivision's cul-de-sacs that the Applicant is working through the separate Final Map Process to achieve.

The Applicant also presents the plotting of all of the homes with accurate building-footprints on the proposed Final Development Plan. The proposed Final Development Plan shows how homes are organized along each street based on typical lot size. Smaller lots are concentrated along the southwest portion of the site, where three two-story floorplans have been grouped together to form the 'Landing at Cypress Ranch' neighborhood, identified by blue and grey building footprints.



Figure 3 – Cypress Ranch Final Development Plan







Larger lots are situated along the northern and eastern portions of the site, where a mix of single-story and larger two-story homes comprise 'The Meadow at Cypress Ranch' neighborhood. This area features a broader range of floorplans, including single-story plans with expanded footprints, and is identified by pink, purple, and yellow building footprints on the development plan.

Figure 4 - Cypress Ranch Final Development Plan, Focus on The Meadow at Cypress Ranch



## **Analysis**

The proposed plans were analyzed for consistency with the adopted City of Oakley Residential Guidelines ("Guidelines"). Since the Vesting Tentative Map is already approved, Staff have focused this analysis on home design, home plotting, and landscaping.

#### NEIGHBORHOOD LAYOUT AND DESIGN

Although the tentative map was previously approved, the submittal of detailed landscaping, neighborhood entry, and pedestrian pathway plans has provided additional clarity regarding the project's consistency with the City's Residential Design Guidelines. The developer has proposed a distinct neighborhood entry with monument signage, consistent with the Oakley Residential Design Guidelines. The plans also show clearly defined neighbor edges created by areas with walking paths and extensive landscaping. The paths also connect to existing sidewalks along East Cypress and establish safe and efficient pedestrian and bicycle circulation.





#### ARCHITECTURAL CHARACTER

The proposed elevations are consistent with the City's Residential Design Guidelines, demonstrating a coherent architectural style across each elevation type. Each plan offers three distinct and regionally appropriate styles—Spanish (characterized by S-tile roofing and accent tiles), Craftsman (featuring board and batten gables with stone veneer), and Prairie (defined by low-hipped roofs and brick veneer). Exterior materials wrap appropriately around building corners, and the two-story elevations incorporate horizontal banding, projecting first-floor elements, and articulated façades to reduce visual mass. Several models include prominent entry porches that enhance the streetscape. Roof forms and tile types vary by style, and each elevation uses a limited palette of muted, earth-tone colors with no more than three cladding materials, as encouraged by the guidelines. Façade and upper-story windows include divided-lite patterns to further reinforce architectural character. Staff have included proposed conditions of approval to further enhance the project's consistency with the design guidelines, including additional brick veneer on a specific model and style combination.

#### FINAL DEVELOPMENT PLAN

The homes are plotted on the Final Development Plan in a manner consistent with the City's Residential Design Guidelines. In addition to meeting all required setbacks, front yard setbacks have been intentionally varied to create visual interest and avoid the appearance of a uniform "wall" of homes along the streets. The plan also includes a minimum of 20 percent single-story homes, consistent with requirements in the guidelines. Several of the home designs feature front porches that extend into the front yard setback, enhancing architectural variety and contributing to a more engaging streetscape. Rear setbacks along major roadways have also been varied to prevent visual monotony and promote a more dynamic neighborhood edge. The changes to lot lines and cul-de-sacs on the Final Development Plan are found to be substantially compliant with the original approval, as the same number of lots remain and the average lot size is approximately the same.

## **Environmental Review**

The proposal for home designs and site design elements of the subdivision fall within the scope of the original subdivision's California Environmental Quality Act (CEQA) analyses. Subdivision 9557 was analyzed through an Initial Study, and a Mitigated Negative Declaration (State Clearinghouse # 2021040251) which was prepared and dated April 9, 2021. No further environmental analysis is required.

## **Findings**

Draft findings for the Design Review and Final Development Plan Review can be found in the proposed resolution.





## Consistency with the Oakley Strategic Plan 27+

Approval of this application would be consistent with the goals in the section of the Oakley Strategic Plan 27+ entitled, "Community and Economic Development Goal". Careful consideration of the project in relation to the findings for approval and the proposed conditions of approval ensure the use meets community service demands while remaining compatible with Oakley's neighborhoods.

## Fiscal Impact

The approval of these entitlements will not impact the General Fund. This is a developer funded account. All Staff time and City of Oakley generated materials are charged to the account and paid for by the developer.

## Staff Recommendation

Staff recommends the Planning Commission adopt the resolution approving "Cypress Ranch Subdivision 9557 Design Review (DR 25-01, FDP 25-01)", as conditioned.

## **Attachments**

- 1. Vicinity Map
- 2. Notice of Public Hearing
- 3. Originally Approved Plans
- 4. Applicant's Plans
- 5. Proposed Resolution

## **Vicinity Map**

Cypress Ranch (Formerly Burroughs) Subdivision 9557 Design Review (DR 25-01, FDP 25-01), Oakley, CA 94561 APN: 032-081-025, 032-081-026





# NOTICE OF PUBLIC HEARING

Notice is hereby given that on **May 6, 2025, at 6:30 p.m.**, or as soon thereafter as the matter may be heard, the Planning Commission of the City of Oakley will hold a Public Hearing at the Council Chambers located at 3231 Main Street, Oakley, CA 94561 for the purposes of considering the application described below:

**Project Name:** Cypress Ranch Subdivision 9557 Design Review (DR 25-01, FDP 25-01)

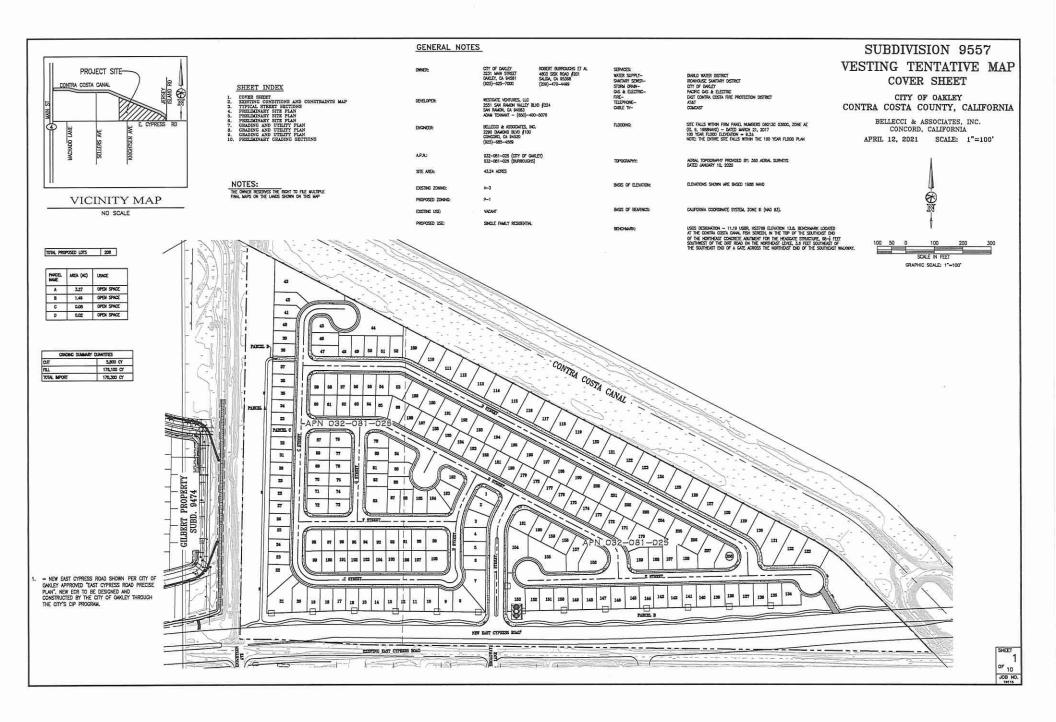
**Project Location:** The project is located at the northeast corner of East Cypress Rd. and Knightsen Ave. (APNs. 032-081-025 and 032-081-026)

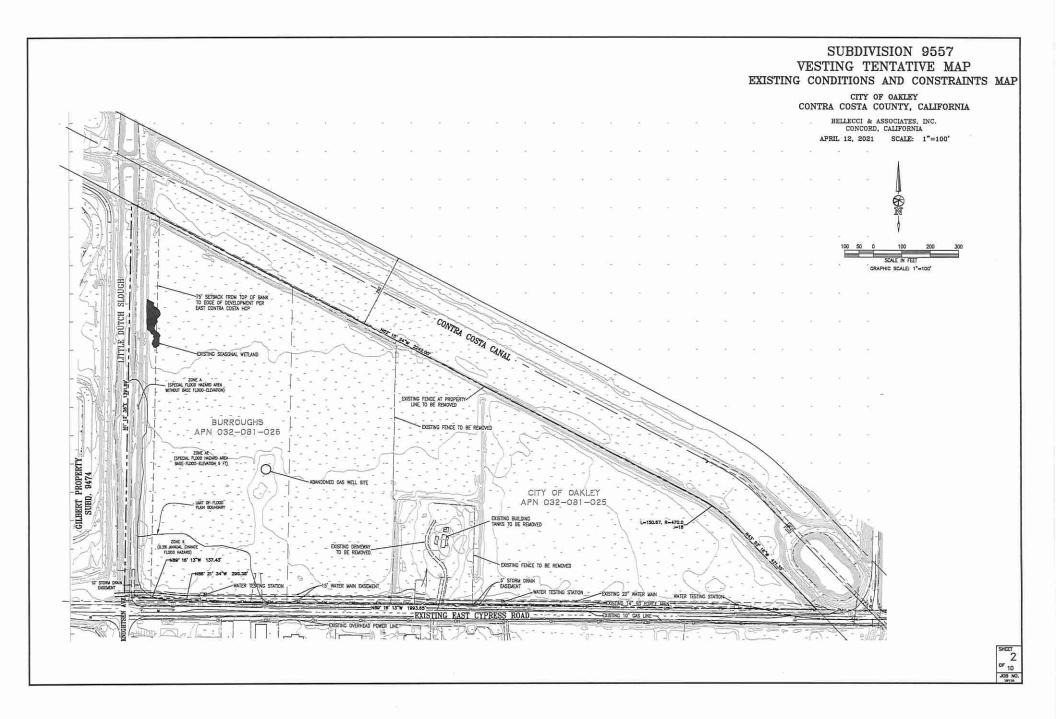
**Applicant:** KB Home North Bay & Central Valley Division, 4830 Business Center Drive, Suite 150, Fairfield, CA 94534, mstover@kbhome.com

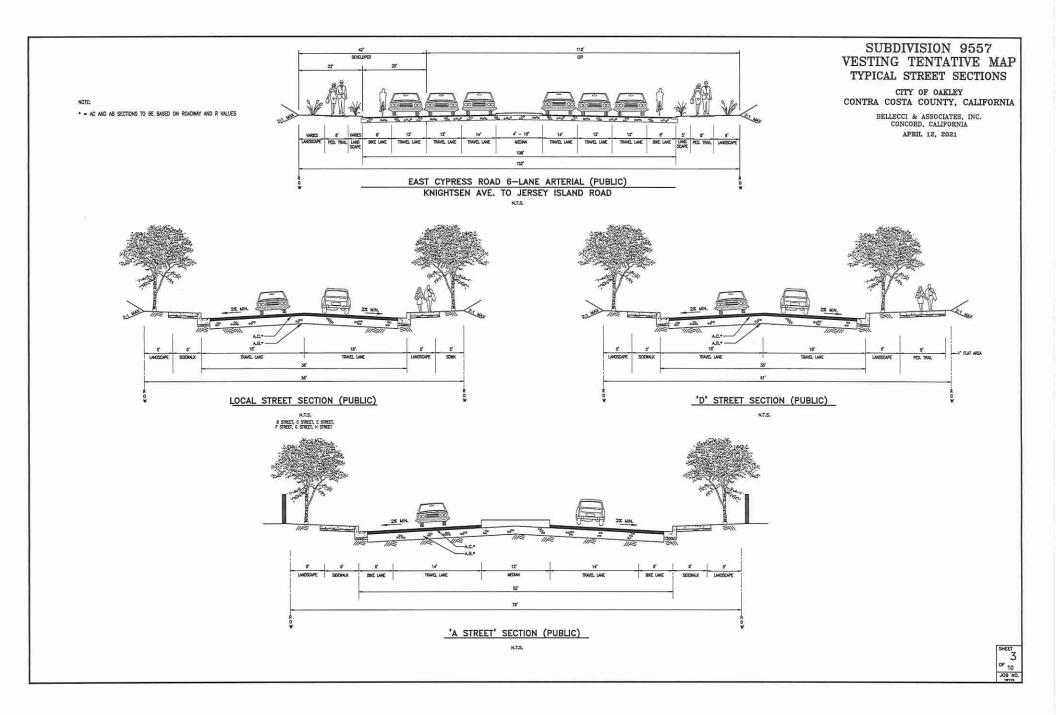
**Request:** Application by KB Home North Bay requesting Design Review, approval of a development plan, elevations, floor plans, roof plans, conceptual landscape plans, colors and materials detail for 191 single-family residential lots located within the Cypress Ranch subdivision (formerly known as "Burroughs Subdivision") (Tentative Map 9557). Proposed homes consist of seven home plans (five two-story plans and two one-story plans) ranging from 1,438 to 2,566 square feet of livable area. The project site is located on the north side of East Cypress Road, between where Knightsen Avenue and Jersey Island Road each intersect East Cypress Road. The site is zoned P-1 (Planned Unit Development) District. (APNs: 032-081-025 & 026)

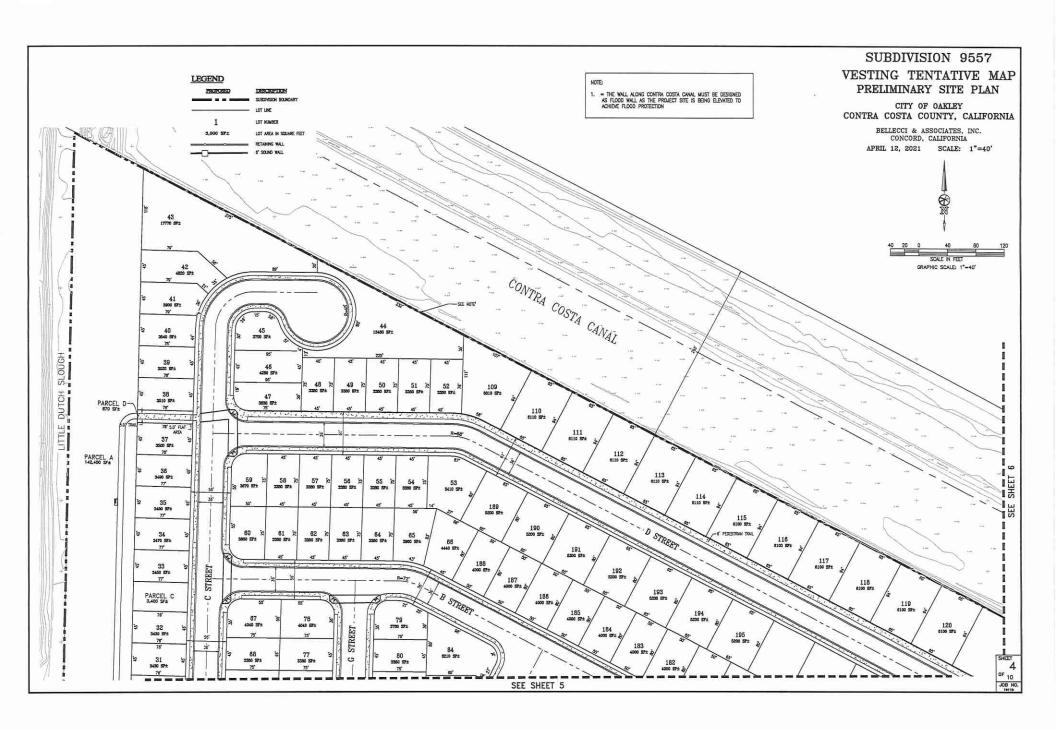
How to Review: The Staff Report and its attachments will be available for public review, on or before May 1, 2025, at City Hall, 3231 Main Street, Oakley, CA 94561 or online at <a href="www.ci.oakley.ca.us/agendas-minutes-videos-archive/">www.ci.oakley.ca.us/agendas-minutes-videos-archive/</a> by navigating to the May 6, 2025, Planning Commission agenda and clicking the project title link. (Note: City Hall is closed on the 1st and 3rd Fridays of each month). Interested persons are invited to submit written comments prior to and may testify at the public hearing. Written comments may be submitted to Evan Gorman, Associate Planner at the City of Oakley, 3231 Main Street, Oakley, CA 94561 or by email to Gorman@ci.Oakley.ca.us.

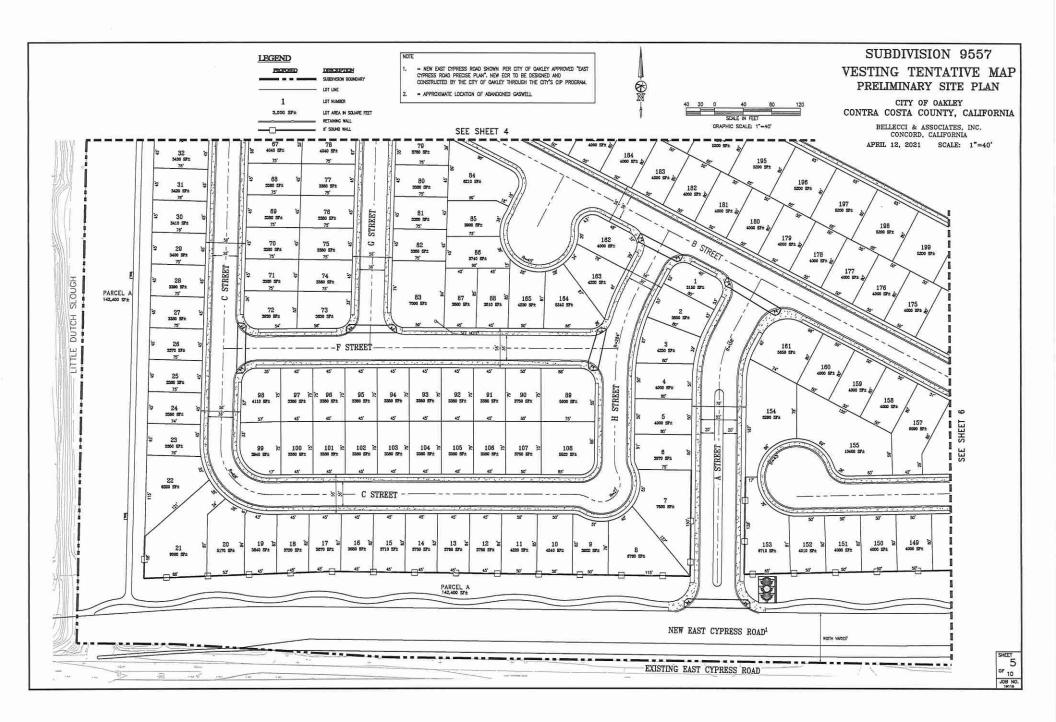
**NOTICE IS ALSO GIVEN** pursuant to Government Code Section 65009(b) that, if this matter is subsequently challenged in Court by you or others, you may be limited to raising only those issues you or someone else has raised at a Public Hearing described in this notice or in written correspondence delivered to the City of Oakley City Clerk at, or prior to, the Public Hearing.

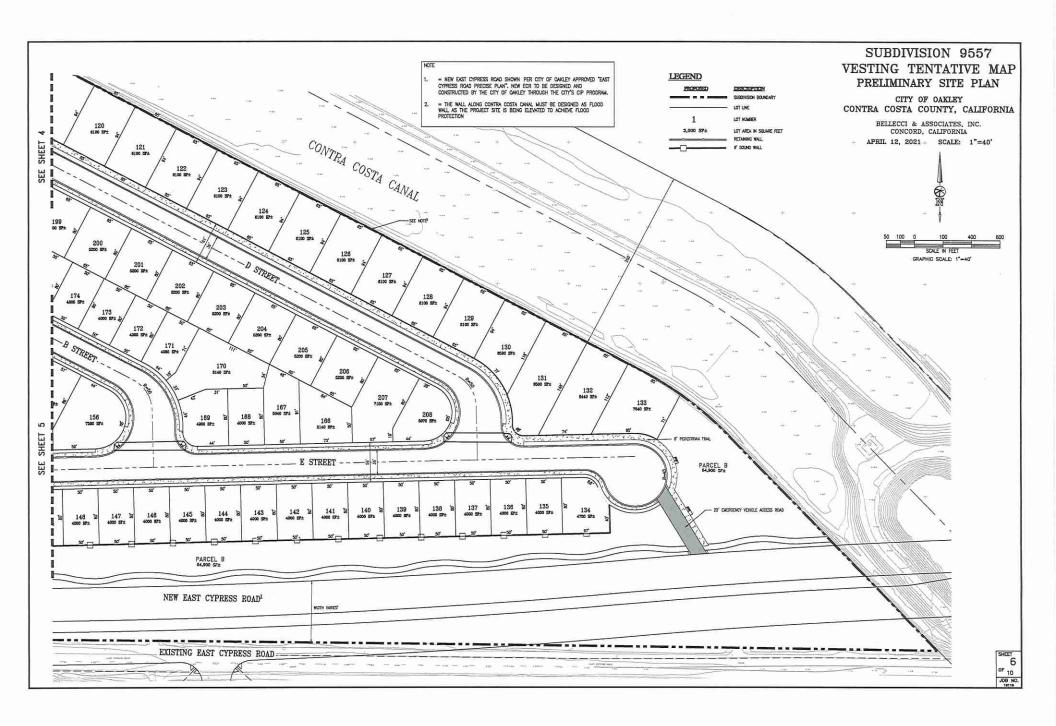


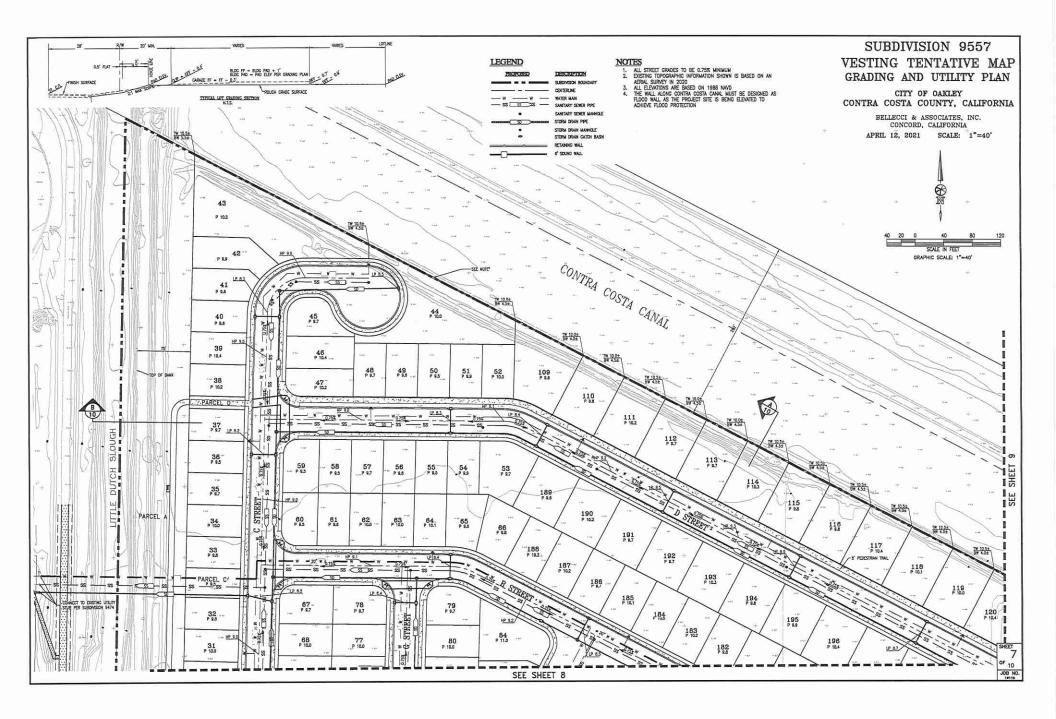


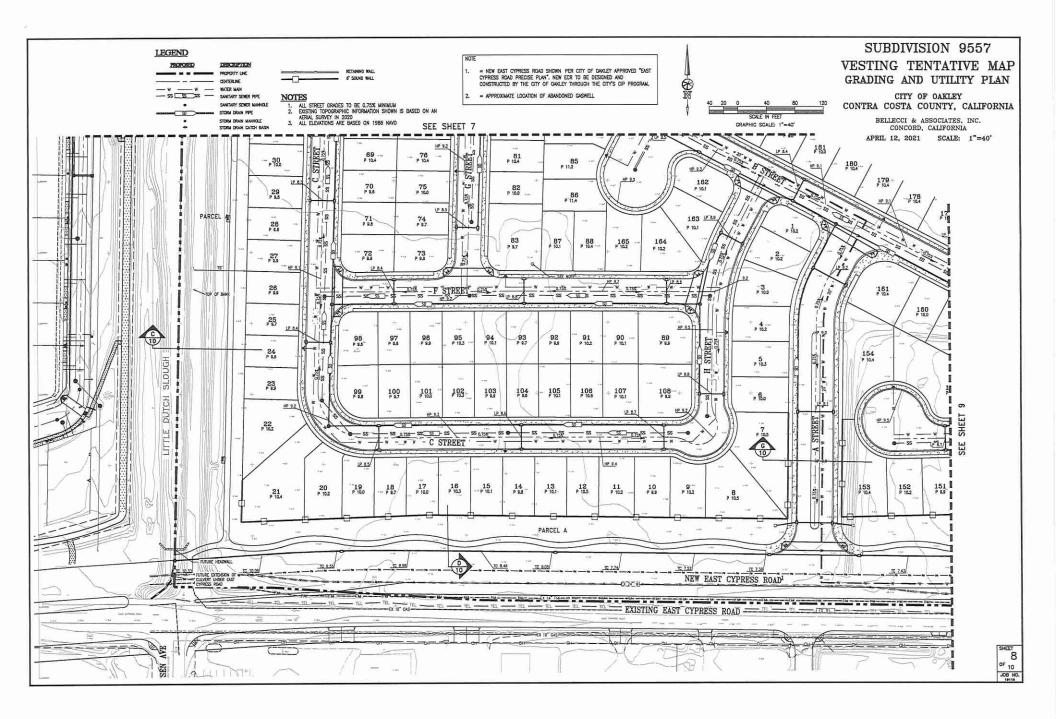


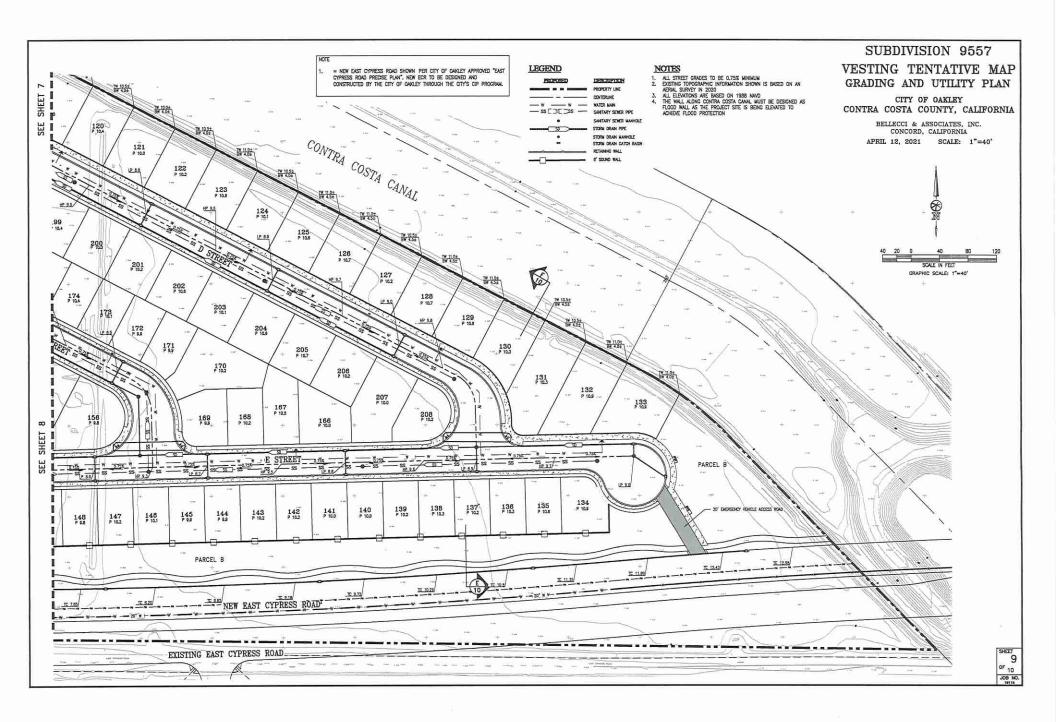


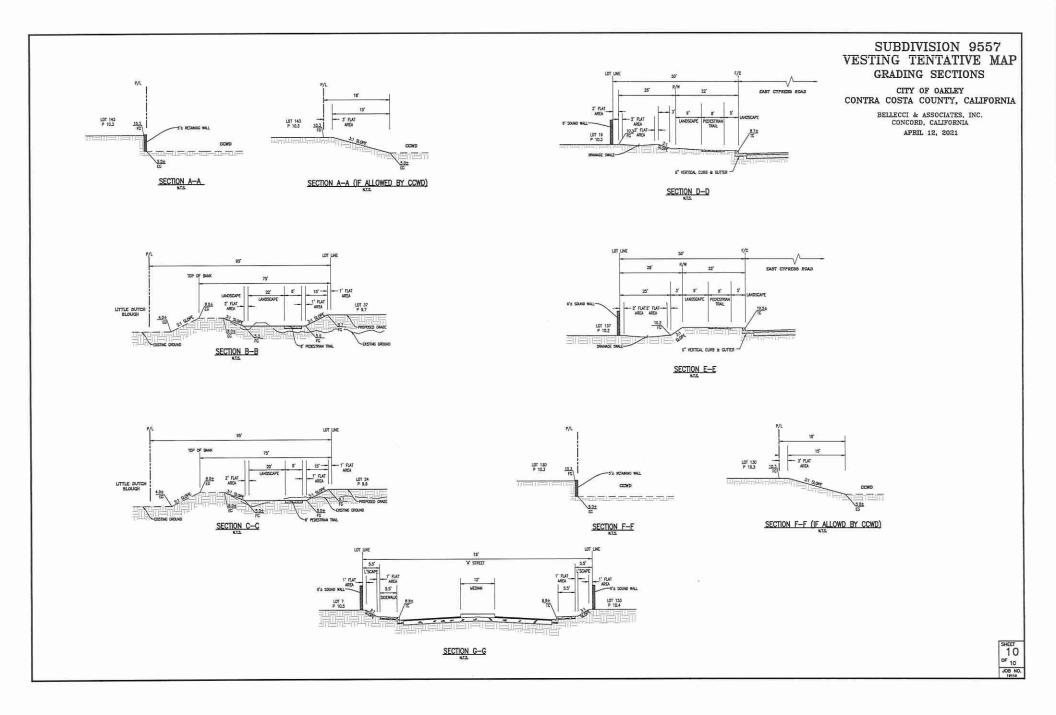




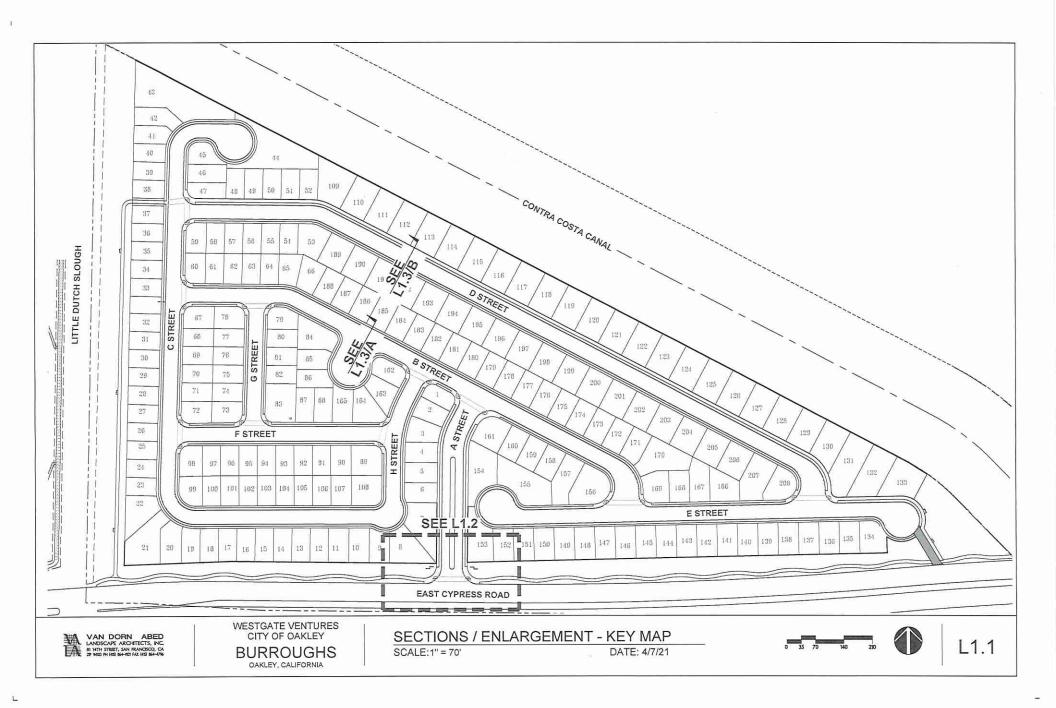


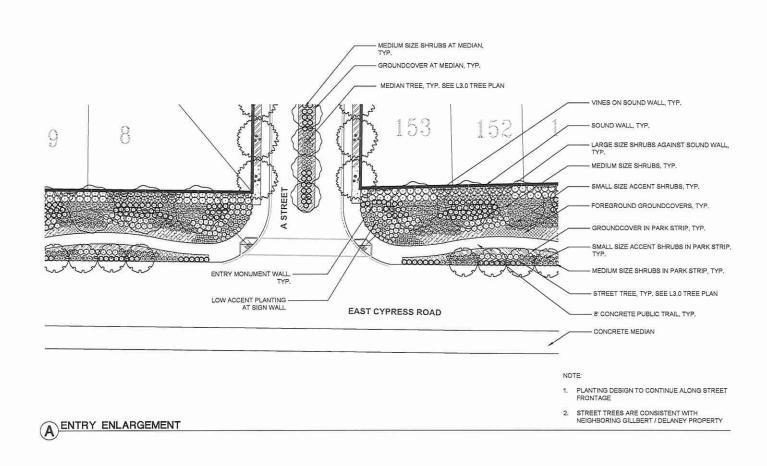














WESTGATE VENTURES CITY OF OAKLEY

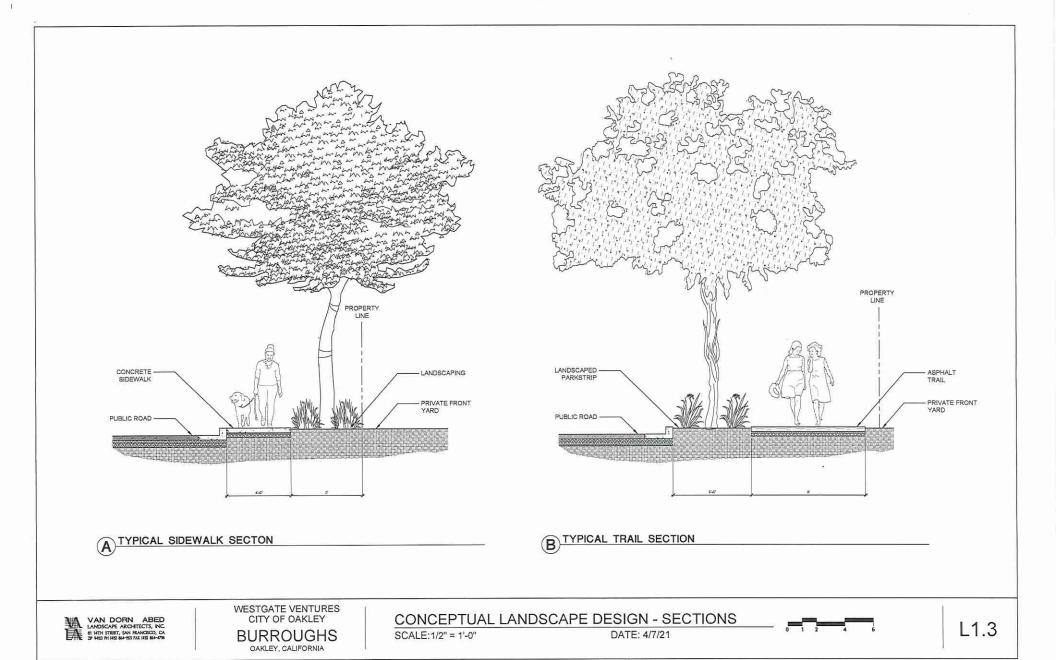
**BURROUGHS** OAKLEY, CALIFORNIA

CONCEPTUAL LANDSCAPE DESIGN - ENLARGEMENT
SCALE: 1" = 20'
DATE: 4/7/21





L1.2





DECORATIVE METAL FENCE



GOOD NEIGHBOR FENCE



VIEW FENCE



SOUND WALL



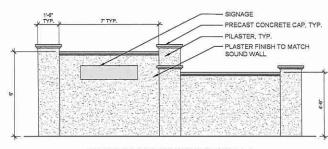
**ASPHALT TRAIL** 



BENCH



REMOVABLE BOLLARD



ENTRY MONUMENT WALL
SCALE: 1/2" = 1'-0"



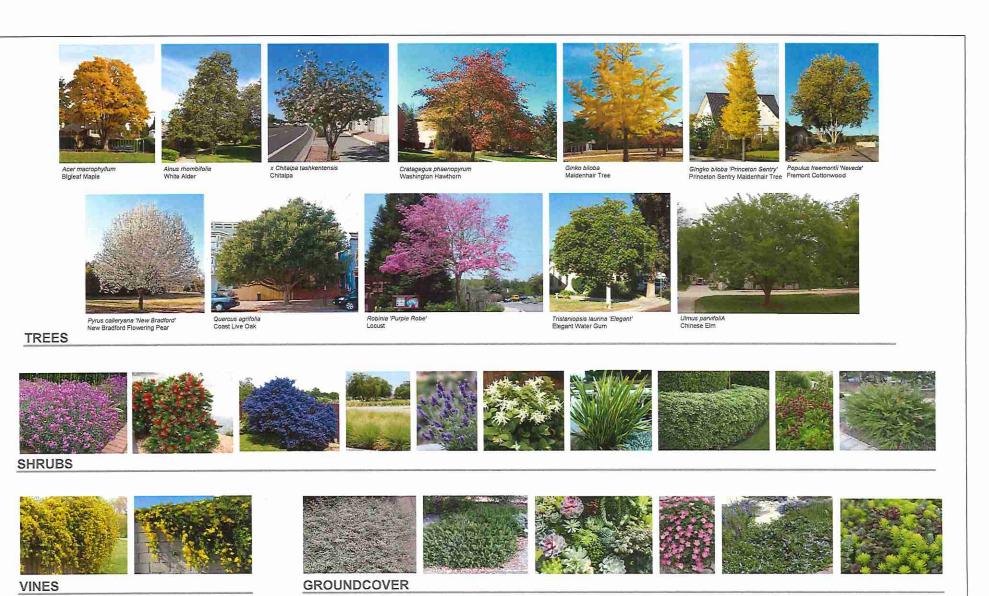
WESTGATE VENTURES CITY OF OAKLEY BURROUGHS OAKLEY, CALIFORNIA

CONCEPTUAL IMAGERY - MATERIALS & SITE FURNISHINGS

SCALE:NTS

DATE: 4/7/21

L2.0

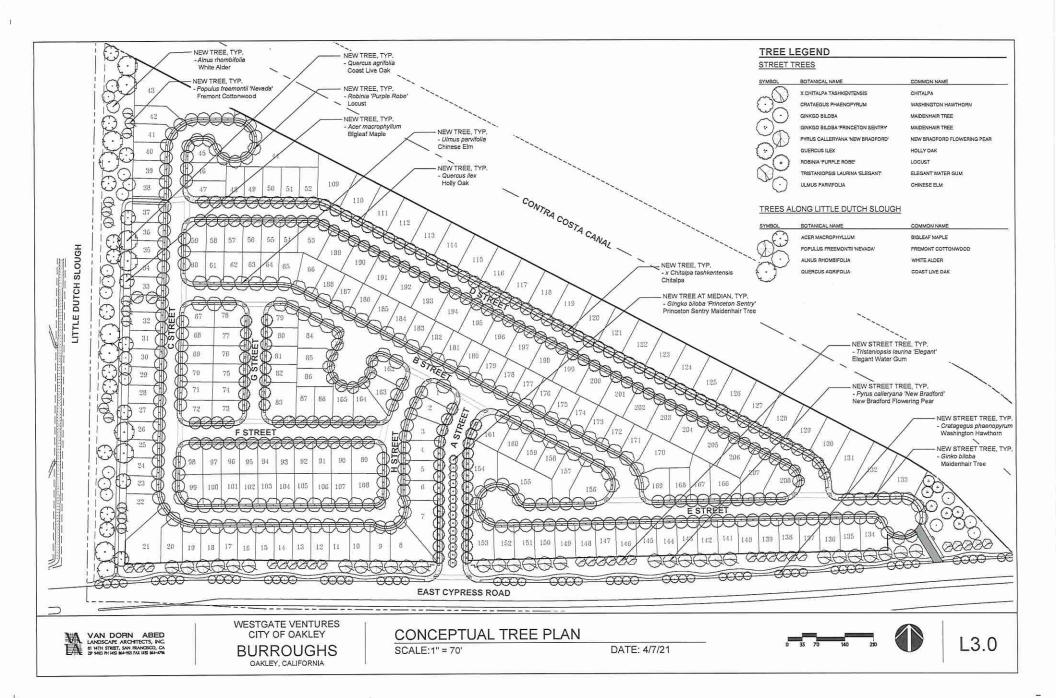


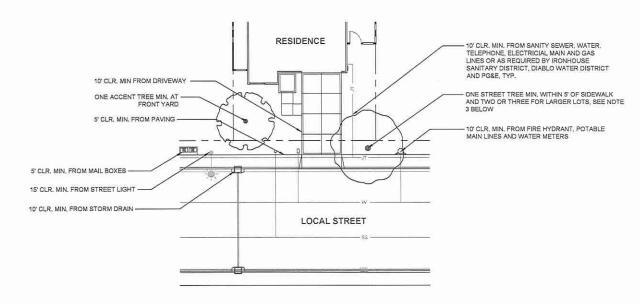
VAN DORN ABED
LANDSCAPE ARCHITECTS, INC.
12 HILL BH HIS 864-80 FAX HIS 864-878

WESTGATE VENTURES CITY OF OAKLEY

BURROUGHS OAKLEY, CALIFORNIA CONCEPTUAL IMAGERY - PLANTING
SCALE: NTS DATE: 4/7/21

L2.1





### NOTES:

- 1. CLEARANCE SHOWN ARE FOR TREES
- 2. KEEP TREES 15' CLEAR FROM STOP SIGNS OR CURB RADIUS AND REFER TO PG&E FOR PLANTING REQUIREMENT NEAR OVERHEAD LINES
- 3. LOT FRONTAGE SIZE, DRIVEWAY LOCATIONS, AND UTILITY LOCATIONS SHALL BE DESIGNED TO ALLOW FOR MAXIMUM STREET TREE PLANTING



WESTGATE VENTURES CITY OF OAKLEY BURROUGHS OAKLEY, CALIFORNIA

TYPICAL LOT TREE PLANTING AND UTILITIES SETBACK
SCALE:1" = 10'
DATE: 4/7/21





L3.1

### TREE PALETTE PLANT PALETTE SHRUBS STREET TREES SYMBOL BOTANICAL NAME COMMON NAME CONT WATER USE MATURE HEIGHT & SPREAD BOTANICAL NAME COMMON NAME CONT WATER USE MATURE HEIGHT & SPREAD SYMBO X CHITALPA TASHKENTENSIS CHITALPA 24° BOX 35'H X 30'W LARGE LAVATERA ASSURGENTIFLORA SIGAL 10H X 10W 8 5 GAL 5 GAL 5 GAL 5 GAL 5 GAL 10H X 10W 6H X 4W 5H X 5W 8H x 7W 5H X 5W 10H X 10W HEAVENLY BAMBOO CRATAEGUS PHAENOPYRUM WASHINGTON HAWTHORN 24" BOX 30'H X 20'W NANDINA DOMESTICA PITTOSPORUM TOBIRA VARIAGATA' PRUNUS CAROLINIANA BRIGHT'N TIGHT' 0 VARIAGATED TORIR GINKGO BILOBA MAIDENHAIR TREE 24° BOX 35'-50'H X 25'-40'W CAROLINA LAUREI RHAPIOLEPIS INDICA SPRINGTIME XYLOSMA CONGESTUM GINKGO BILOBA PRINCETON SENTRY MAIDENHAIR TREE 24" BOX MEDIUM PYRUS CALLERYANA NEW BRADFORD NEW BRADFORD FLOWERING PEAR 24" BOX 30'H X 35W ASPIDISTRA ELATIOR CEANOTHUS SPECIES DIETES BICOLOR ERYSIMUM BOWEL'S MAUVE CAST IRON PLANT LILAC FORTNIGHT LILY BOWELS MAUVE WALLFLOWER 1 GAL 1 GAL 1 GAL 5 GAL 1 GAL 5 GAL 1 GAL 1 GAL 5 GAL 5 GAL 5 GAL 5 GAL 5 GAL OUERCUS ILEX HOLLY OAK 24° BOX L 30-60°H X 30-60°W ROBINIA 'PURPLE ROBE' LOCUST 24" BOX L 40°H X 30°W EURYOPS SPECIES FESTUCA MAIREI TRISTANIOPSIS LAURINA ELEGANT ELEGANT WATER GUM 24° BOX M 30'H X 30'W DAISY ATLAS FESCUE 3H X 3W CHINESE ELM 24° BOX 45H X 35W LILMUS PARVIFOLIA GREVILLEA NOELIN GREVILLEA 4H X 5W LAVANDULA ANGUSTIFOLIA ENGLISH LAVENDER DWARF MAT RUSH LOMANDRA LONGIFOLIA 'BREEZE' LORAPETALUM 'SHANG-WHITE' 3H X 3W EMERALD SNOW FRINGE TREES ALONG LITTLE DUTCH SLOUGH NADINA SPECIES BAMBOO 3H X 3W 4HX3W 4HX4W RHAPHIOLEPIS SPECIES ROSMARINUS OFFICINALIS "TUSCAN BLUE" HAWTHORN SYMBOL BOTANICAL NAME COMMON NAME CONT WATER USE MATURE HEIGHT & SPREAD 6H X 3W 3.5H X 3 SALVIA SPECIES WESTRINGIA FRUTICOSA "MORNING LIGHT" ACER MACROPHYLLUM BIGLEAF MAPLE 24" BOX 40-75'H X 40-75'W COASTAL ROSEMARY 5 GAL POPULUS ERFEMONTH NEVADA FREMONT COTTONWOOD 24" BOX 40-80'H X 30-50'W SMALL 1 GAL 1 GAL 1 GAL 1 GAL 1 GAL 1 GAL 3H X 3W 2H X 8W 1H X 1W 2H X 3W 2H X 2W CALLISTEMON SITTLE JOHN BOTTLE BRUSH CALLISTEMON UTTLE JOHN' CEANOTHUS SPECIES FESTUCA OVINA GLAUCA LANTANA DWARF YELLOW PHORMUM HYBRIDS TONEY TIGER' SANTOLINA VIRENS BOTTLE BHUSH LILAC BLUE FESCUE DWARF LANTANA FLAX GREEN LAVENDER COTTON 50-90'H X 40-70'W ALNUS RHOMBIFOLIA 24° BOX 00 COAST LIVE OAK 24" BOX 20-70'H X 25-80'W **QUERCUS AGRIFOLIA** 2.5H X 2.5W MEDIUM ACCENT TREES (FRONT YARDS) VINES COMMON NAME SYMBOL BOTANICAL NAME COMMON NAME CONT WATER USE MATURE HEIGHT & SPREAD SYMBOL BOTANICAL NAME CONT WATER USE MATURE HEIGHT & SPREAD CARPINUS BETULUS 'FASTIGIATA' EUROPEAN HORNBEAM **FASTERN REDBUD** 15 GAL 25'-35'H X 25-35'W CERCIS CANADENSIS GROUNDCOVER CRATAGGIS PHAGNOPYRUM WASHINGTON HAWTHORN 15 GAL an'H X 20W SYMBOL BOTANICAL NAME COMMON NAME CONT WATER USE MATURE HEIGHT & SPREAD GINKGO BILOBA PRICETON SENTRY MAIDENHAIR TREE 15 GAL 45'H X 20'W ARCTOSTAPHYLOS SPECIES CARPET MANZANITA 1 GAL 4" POT 4" POT 1 GAL 1 GAL 1 GAL 4" POT LAURUS NOBILIS SARATOGA 15 GAL 30'H X 20'W CHXCW ECHEVERIA SPECIES ERODIUM REICHARDII ECHEVERIA ALPINE GERANIUM 3'H X 12'W 1'H X 10'W 1'H X 5'W 1'H X 7'W LYONOTHAMNUS FLORIBUNDUS IRONWOOD 15 GAL 30'H x 20'W CEANOTHUS SPECIES CALIFORNIA LILAC CREEPING CORPOSMA 15 GAL 40'H X 30'W ROBINIA PURPLE ROBE LOCUST MYOPORUM PARVIFOLIUM SEDUM SPECIES STONECHOP 111 X 2W PISTACIA CHINENSIS CHINESE PISTACHE 15 GAL SEH X SOW SHRUBS ALONG LITTLE DUTCH SLOUGH SMALL ACCENT TREES (FRONT YARDS) CONT WATER USE MATURE HEIGHT & SPREAD COMMON NAME BOTANICAL NAME SYMBOL BOTANICAL NAME COMMON NAME CONT WATER USE MATURE HEIGHT & SPREAD ACHILLEA MILLEFOLIUM ARCTOSTAPHYLOS JOHN DOURLY ARCTOSTAPHYLOS HOWARD MCMINN' CEANOTHUS GRISEUS VAR, YANKEE POINT' 2.5H'X 2.5W ACER PALMATUM SANGO KAKU CORAL BARK MAPLE 15 GAL 25'H X 20W JOHN DOURLY MANZANITA 1 GAL 2'H X 5W 7H X 9W GEIJERA PARVIFLORA AUSTRALIAN WILLOW 15 GAL 25'H X 20'W HOWARD MCMINN MANZANITA YANKEE POINT CEANOTHUS ISLAND BUSH SNAPDRAGON 2.5'H X 9'W 3'H X 9'W 1.5'H X 2.5'W 1 GAL 5 GAL GALVESIA SPECIOSA 15 GAL LAGERSTROEMIA MUSKOGEE GAL GAL GAL GAL DOUGLAS IRIS DOUGLAS IRIS WESTERN MARSH ROSEMARY CREEPING OREGON GRAPE SCARLET MONKEY FLOWER LIMONIUM CALIFORNICUM SAUCER MAGNOLIA 15 GAL 25'H X 25W 2H X 2W MAGNOLIA X SOULANGEANA MAHONIA REPENS 15HX25W MIMULUS CARDINALIS 2'H X 3'W 4,5'H X 5'W 15 GAL 1 GAL 5 GAL 5 GAL 5 GAL 5 GAL 1 GAL 1 GAL PRUNUS YEDGENSIS 'AKEBOND' ELOWERING CHERRY 25'H X 25W MUHLENBERGIA RIGENS OENOTHERA CALIFORNICA DEER GRASS CALIFORNIA EVENING PRIMROSE 1.5H X 8W TH X 6W 9H X 9W 4H X 7W 1.5H X 2.5W 1H X 2.5W RHUS LANCEA AFRICAN SUMAC 15 GAL L 20'H X 20W RHAMNUS CALIFORNICA ITALIAN BUCKTHORN ROSA CALIFORNICA CALIFORNIA WILD BOSE SALVIA CLEVELANDII CLEVELAND SAGE WATER USE DESIGN INTENT STATEMENT BLUE EYED GRASS CALIFORNIA FUCHSIA PLANTING DESIGN INTENT STATEMENT ZAUSCHNERIA CALIFORNICA The irrigation system will comply with the State of California's Model Water Efficient Landscape Ordinance as adopted by the City of The projects shrub and ground cover planting design utilizes all low water use drought tolerant plant materials for maximum water conservation. The troes consist of a mix of primarily low and modulum vater use species, Some high water use native riparian trees species are utilized Oakley. System will be a fully automatic, low gallon system with matched precipitation rate emitters on each circuit. The low, medium and high water use hydrozones will be on separate valve circuits. All new trees will have separate drip or bubbler circuits. The remote and high water das hydrocones will be on separate valve certains. All new flows will nave separate only of produced rectains, in a remote central valves will have integral prescure regulators to prevent fluctuations and ensure constant application rates to minimize ever or under valeting. The electronic irrigation controller will be weather based and number abased on current climate along with multiple programs and application explositant trees. A rain is which will be intelligent to prevent irrigation during rainy periods. A flow sensor and master valve will be connected as the centroller to allow automatic shut off of any valve circuit or main line in the overent of apple beniets to prevent visions. along the West side of the project for miligation compliance. Shade telerant low water use plants will be utilized on the North facing sides of the project. The plants have been selected utilizing the Model Water Efficient Landscape Ordinance WUCOLS Plant Lists. A minimum of 3" of bark mulch will be placed in all shrub and groundcover areas.

VAN DORN ABED
LANDSCAPE ARCHITECTS, NC.
11 HTH STREET, SAN FRANCISCO, CA.
27 HILD BL-551 RX HIS BL-67

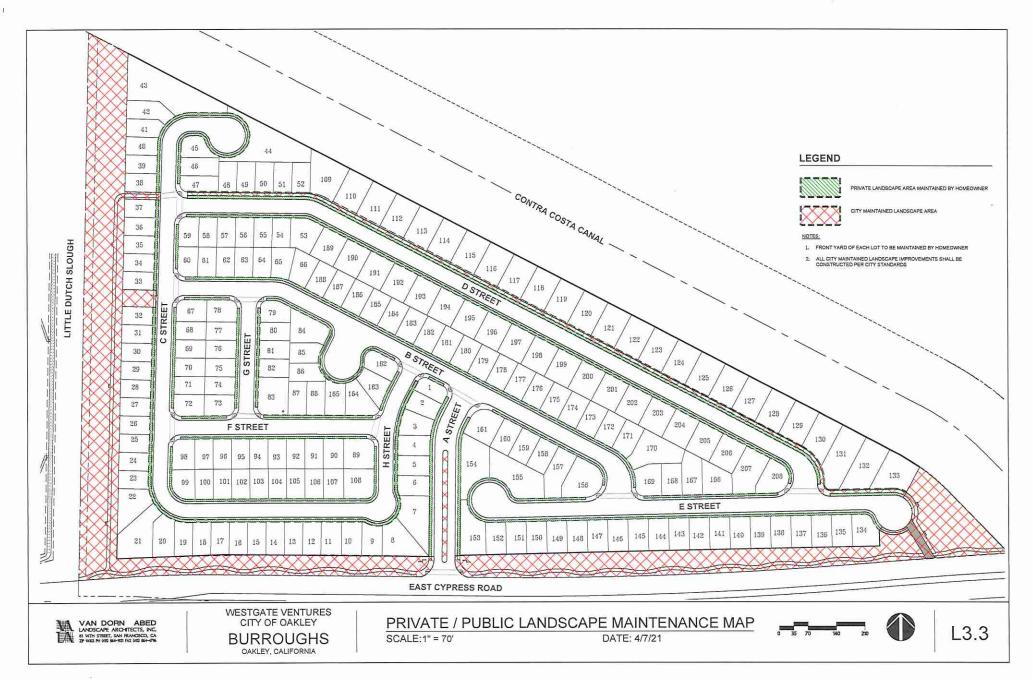
WESTGATE VENTURES CITY OF OAKLEY BURROUGHS OAKLEY, CALIFORNIA

CONCEPTUAL PLANT LIST

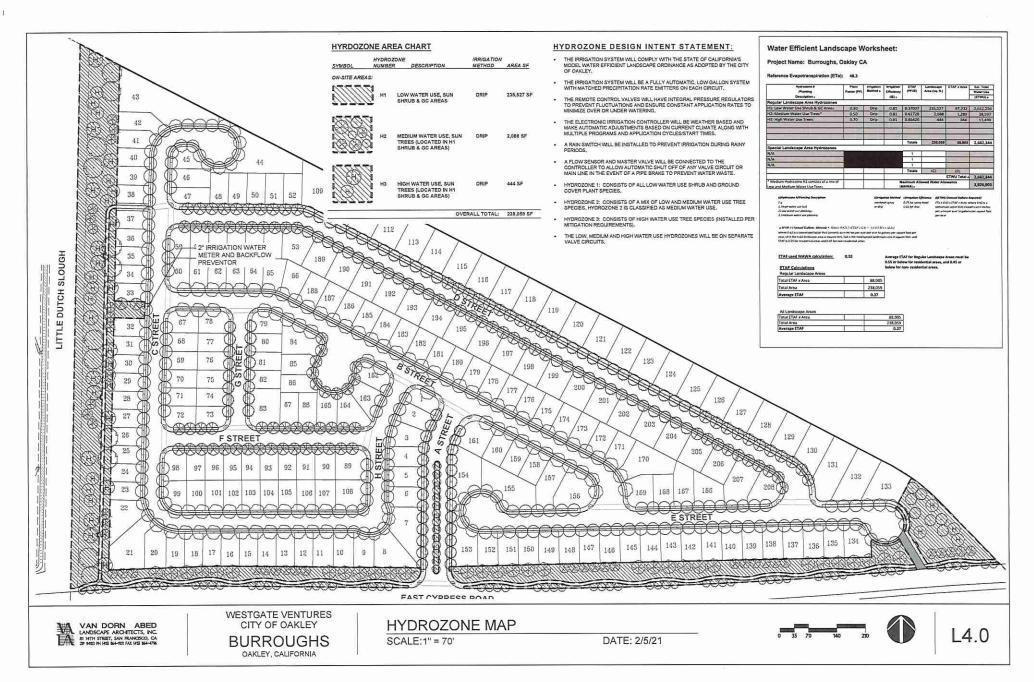
SCALE:NTS

DATE: 4/7/21

L3.2



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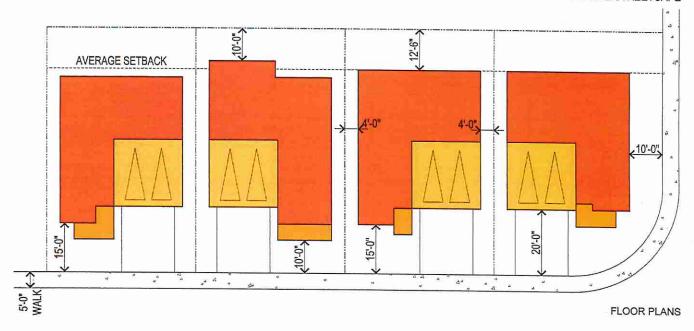


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## TYPICAL STREETCAPE

LOT SIZE	45' x 75'		
101012	40 X 10		
SETBACKS			
Front Yard			
Living	15'		
Porch	10'		
Garage	20' Front Load		
Rear Yard			
Minimum	10'		
Average	12'-6"		
Side Yard (Interior Lot)			
Minimum	4'		
Side Yard (Corner Lot)			
Min. Interior	4'		
Min. Streetside	10'		
BLDG. HEIGHT			
Stories	2		
Max. Height	35'		



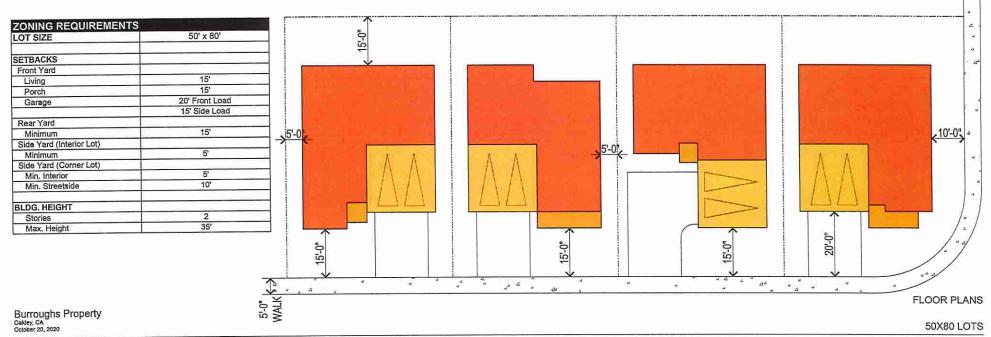
Burroughs Property Oakley, CA October 20, 2020

45X75 LOTS





TYPICAL STREETCAPE

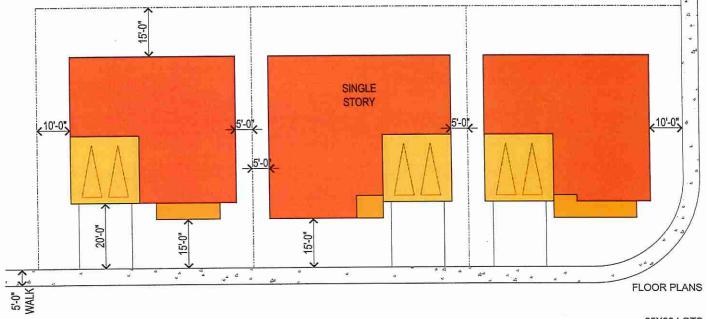


\$50G Architects, Inc. 3341 Wahut Bird. Suile 120 Brinthwood, CA 94513 925.634,7000 | sdgarchitectrina.com



TYPI	CAL	STREETCAPE	

ZONING REQUIREMENTS			
LOT SIZE	65' x 80'		
SETBACKS			
Front Yard			
Living	15'		
Porch	15'		
Garage	20' Front Load		
	15' Side Load		
Rear Yard			
Minimum	15'		
Side Yard (Interior Lot) - 1 Story			
Minimum	5'/5'		
Side Yard (Interior Lot) - 2 Story			
Minimum	5710		
Side Yard (Corner Lot)			
Min. Interior	5'		
Min. Streetside	10'		
BLDG. HEIGHT			
Stories	2		
Max. Height	35'		

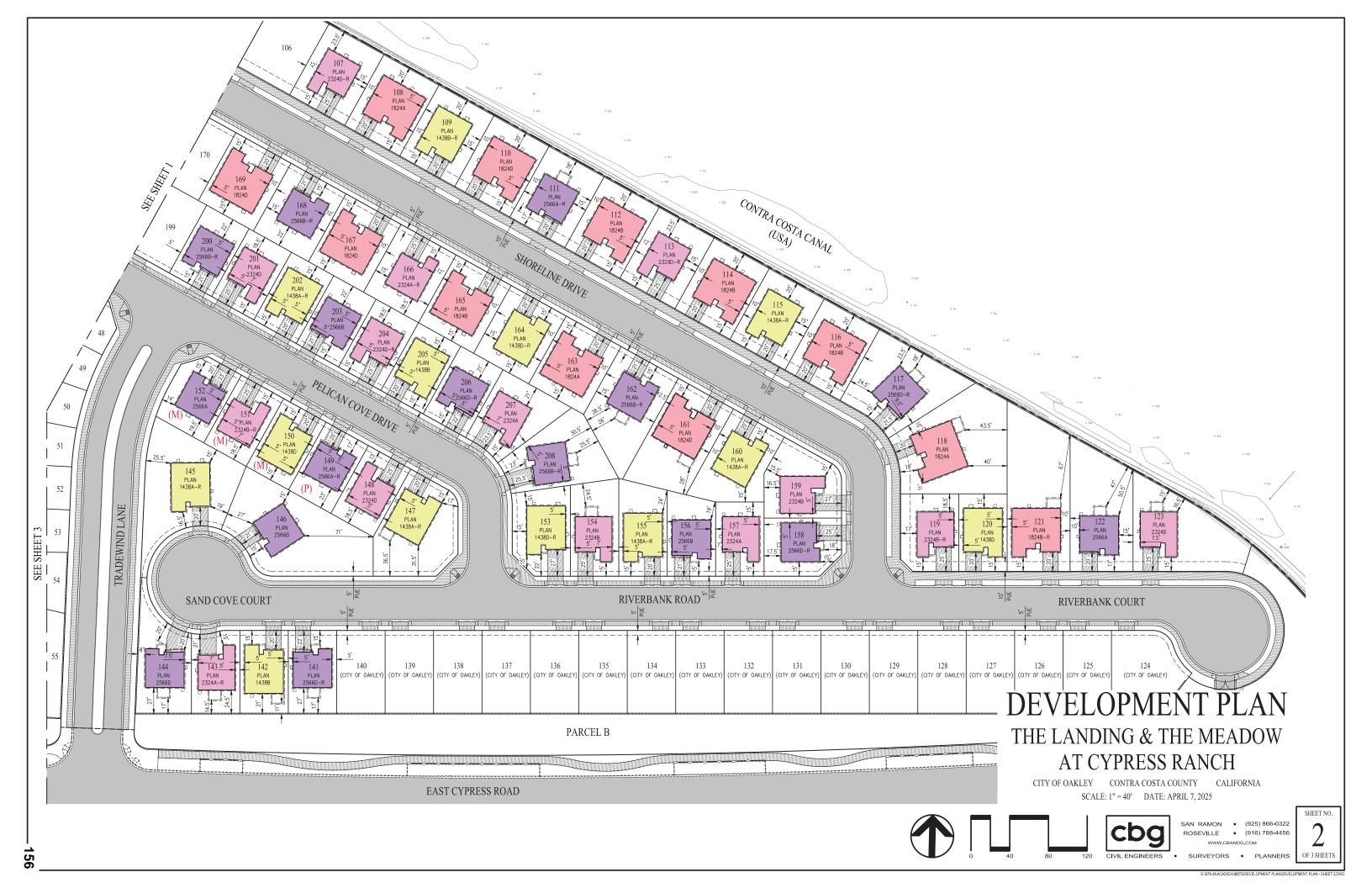


Burroughs Property Oakley, CA October 20, 2020

65X80 LOTS









# DEVELOPMENT PLAN THE LANDING & THE MEADOW

AT CYPRESS RANCH
CITY OF OAKLEY CONTRA COSTA COUNTY CALIFORNIA
SCALE: 1" = 40' DATE: APRIL 7, 2025



WWW.CBANDG.COM

RVEYORS PLANNERS

OF 3 SHEETS

SHEET NO.

5

4/ACAD/EXHIBITS/DEVELOPMENT PLAN/DEVELOPMENT PLAN - SHEET 3.0



2016 'B' Craftsman 2124 'A' Spanish Eclectic 2378 'D' French Cottage

# Street Scene



Elevation 'A' Spanish Eclectic

## TOP OF RIDGE 2 5 8 5 11 5 5 19 3 5 15 13 5 5 22 10 Elevation 'B' Craftsman



**ELEVATION LEGEND** 

1 CONCRETE 'S' TILE ROOFING 2 CONCRETE FLAT TILE ROOFING

WOOD FASCIA BOARD / FASCIA GUTTER

STUCCO OVER FOAM TRIM

PRE-FAB WINDOW SYSTEM

COMPOSITE ENTRY DOOR

METAL ROLL-UP GARAGE DOOR

DECORATIVE FOAM SHUTTERS

ILLUMINATED ADDRESS SIGN

OPTIONAL COACH LIGHT

DECORATIVE FOAM VENTS

DECORATIVE CLAY PIPES

DECORATIVE BOARD & BATTEN TAPERED COLUMNS (STUCCO OVER WOOD FRAMING)

WOOD CORBELS

BRICK VENEER 22 STONE VENEER

STUCCO OVER SHAPED FOAM TRIM

CEMENTITIOUS FIBER LAP SIDING

STUCCO OVER FOAM CORBELS STUCCO COLUMNS (STUCCO OVER WOOD FRAMING)

STUCCO FINISH

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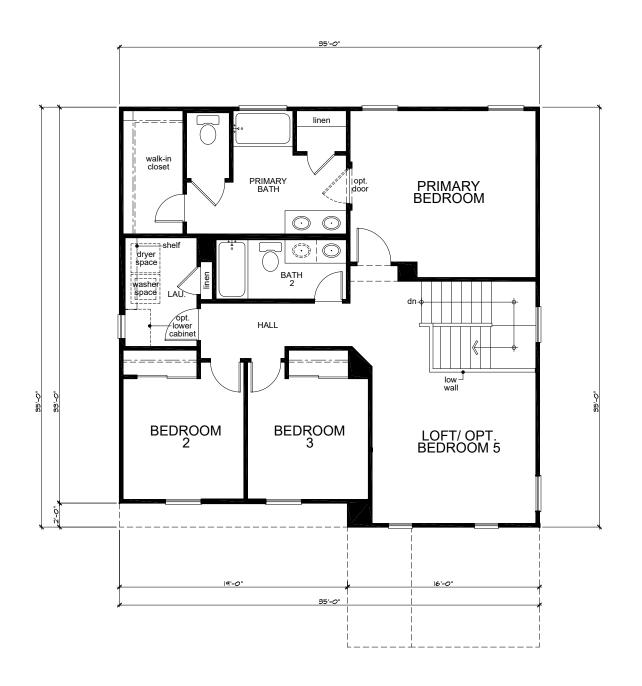
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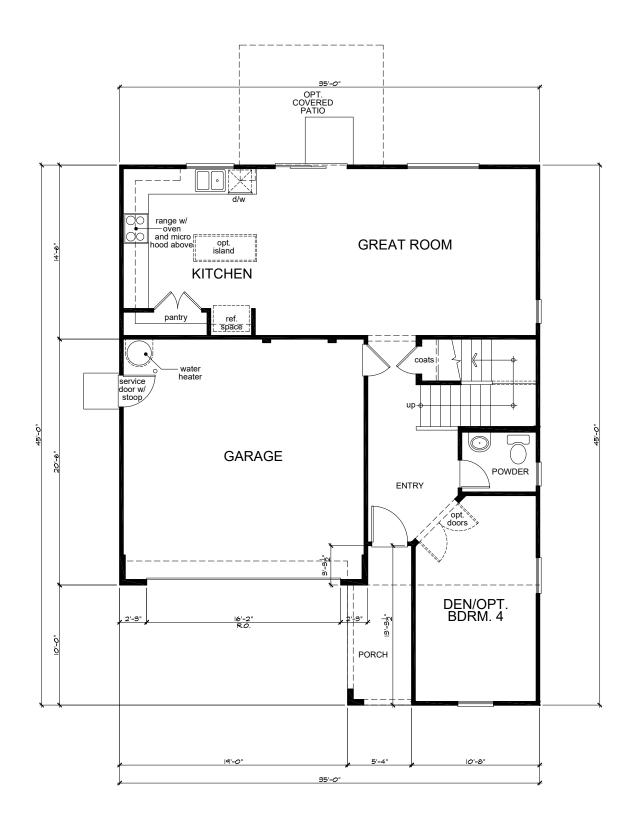
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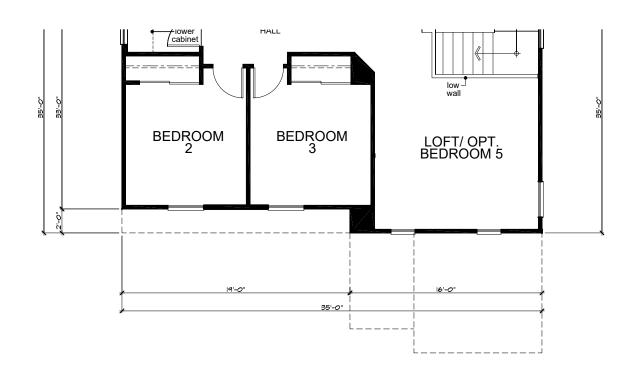


SQUARE FOOTAGE PLAN 235.2016				
FIRST FLOOR AREA SECOND FLOOR AREA	901 1115	901 1115	901 1115	50. FT. 50. FT.
TOTAL AREA	2016	2016	2016	SQ. FT
GARAGE AREA	419	419	419	SQ. FT.
PORCH AREA OPTIONS:	65	65	55	SQ. FT.
COVERED PATIO	120	120	120	SQ. FT.

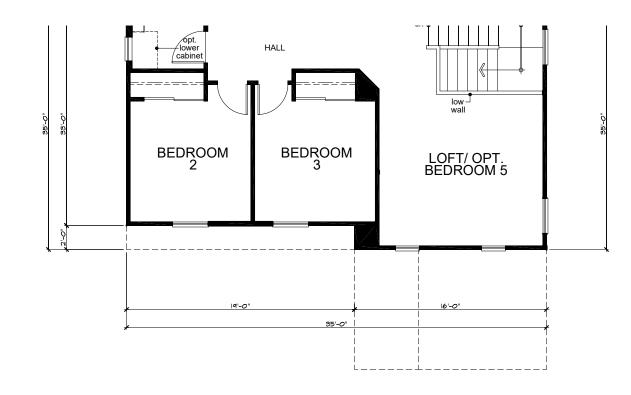
Second Floor Plan 'A'

First Floor Plan 'A'

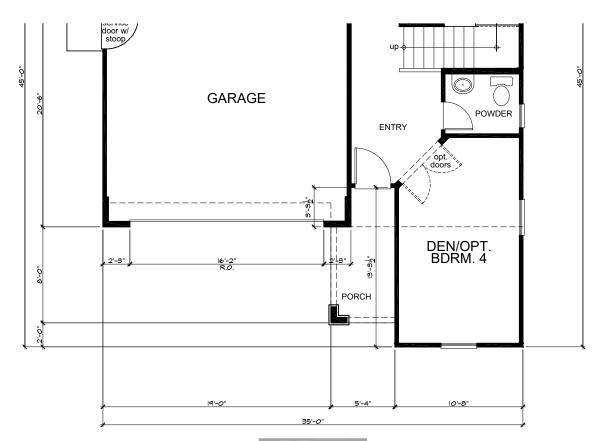
PLAN No.: 235.2016 JOB No.: 3025-999424 STORY: 2-STORY March 28, 2025



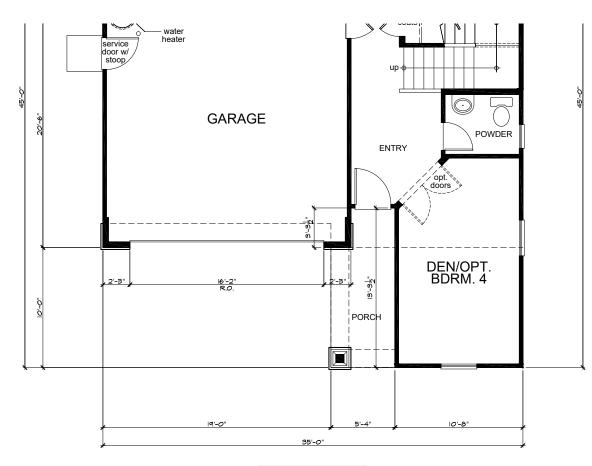
Second Floor Plan 'D'



Second Floor Plan 'B'

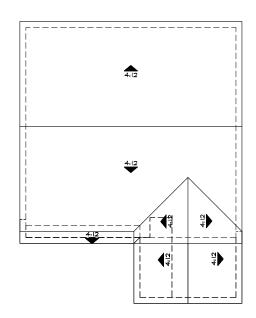


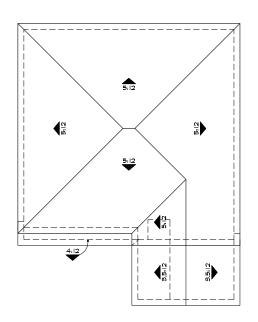
First Floor Plan 'D'

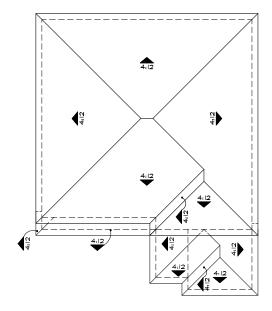


First Floor Plan 'B'

235.2016 3025-999424 2-STORY









TANSA GRADE

Left Elevation 'A'

Front Elevation 'A' - Spanish Eclectic





Right Elevation 'A'

Rear Elevation 'A'

TOP OF RIDGE





Left Elevation 'B'



Front Elevation 'B' - Craftsman



Right Elevation 'B'

Rear Elevation 'B'



FAISH CRADE

Left Elevation 'D'

Front Elevation 'D' - Prairie

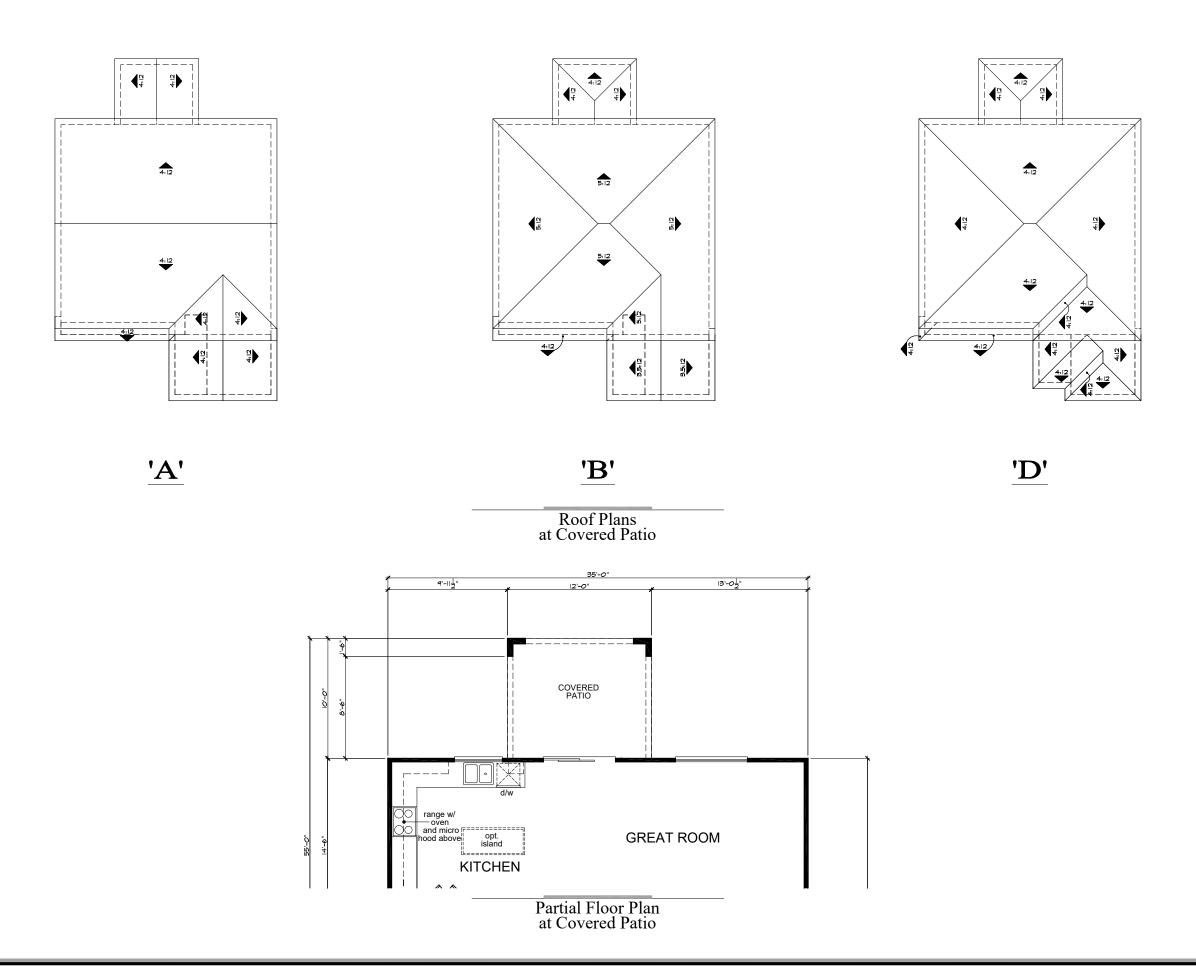




Right Elevation 'D'

Rear Elevation 'D'

TOP OF RIDGE







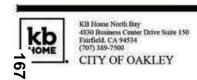


Rear Elevation 'A'

Elevations at Covered Patio



Partial Left Elevation 'A'









Partial Right Elevation 'D'

Rear Elevation 'D'

Partial Left Elevation 'D'







Partial Right Elevation 'B'

Rear Elevation 'B'

Partial Left Elevation 'B'

Elevations at Covered Patio



# Elevation 'A' Spanish Eclectic

## TOP OF RIDGE 2 3 8 - 5 5 19 2 -3 5 15 13 3 3 -4 9 10 Elevation 'B' Craftsman



**ELEVATION LEGEND** 

STUCCO OVER FOAM TRIM

STUCCO OVER FOAM CORBELS

STUCCO COLUMNS (STUCCO OVER WOOD FRAMING)

METAL ROLL-UP GARAGE DOOR

DECORATIVE FOAM SHUTTERS

ILLUMINATED ADDRESS SIGN

OPTIONAL COACH LIGHT

DECORATIVE FOAM VENTS

DECORATIVE CLAY PIPES

DECORATIVE BOARD & BATTEN TAPERED COLUMNS (STUCCO OVER WOOD FRAMING)

WOOD CORBELS

BRICK VENEER 22 STONE VENEER

STUCCO OVER SHAPED FOAM TRIM

CEMENTITIOUS FIBER LAP SIDING

PRE-FAB WINDOW SYSTEM

COMPOSITE ENTRY DOOR

1 CONCRETE 'S' TILE ROOFING 2 CONCRETE FLAT TILE ROOFING WOOD FASCIA BOARD / FASCIA GUTTER

STUCCO FINISH

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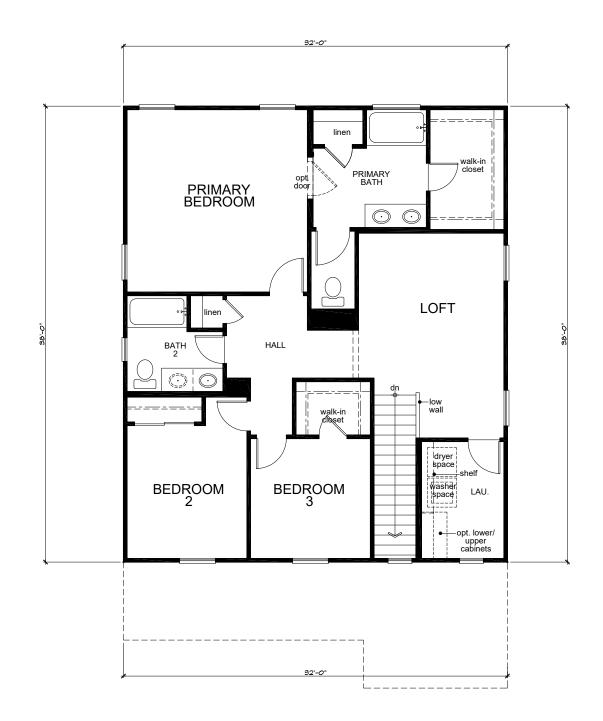
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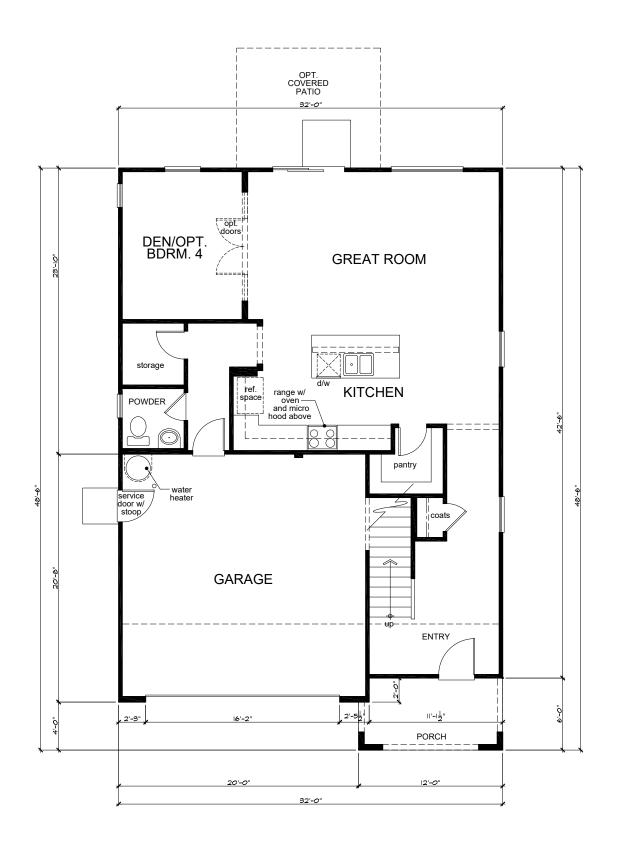
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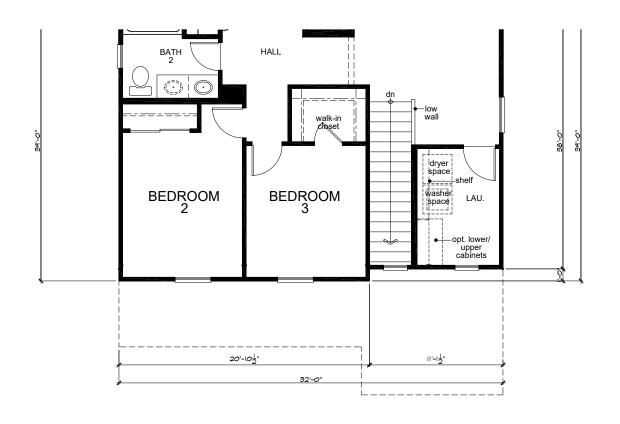
SQUARE FOOTAGE PLAN 232.2142				
FIRST FLOOR AREA SECOND FLOOR AREA	959 1183	959 1191	959 1204	5Q. FT. 5Q. FT.
TOTAL AREA	2 42	2150	2163	SQ. FT.
GARAGE AREA	443	443	443	SQ. FT.
PORCH AREA OPTIONS:	70	70	69	SQ. FT.
COVERED PATIO	120	120	120	SQ. FT.

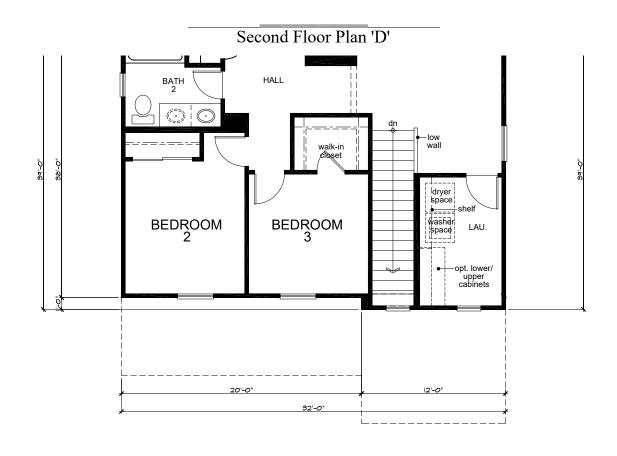
Second Floor Plan 'A'

First Floor Plan 'A'

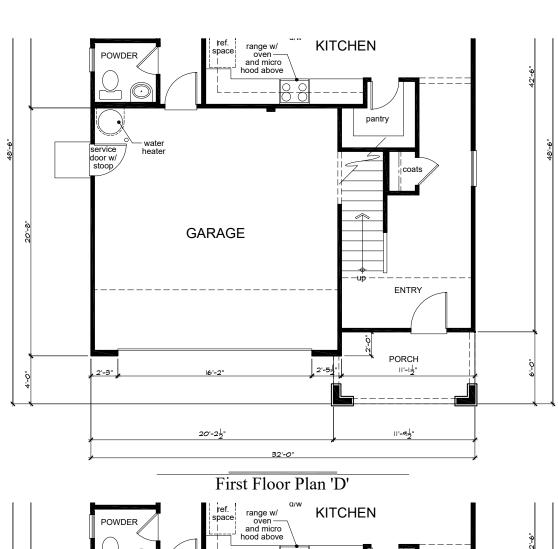
PLAN No.: JOB No.: STORY: March 28, 2025

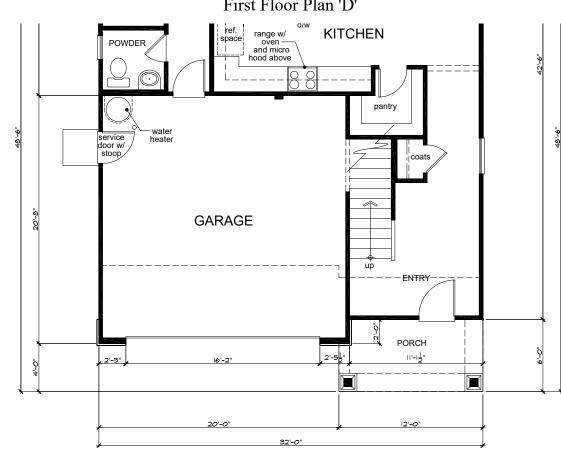
232.2142 3025-999424 2-STORY



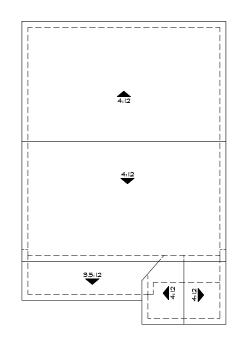


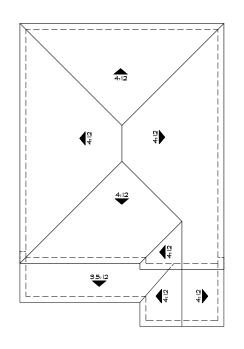
Second Floor Plan 'B'

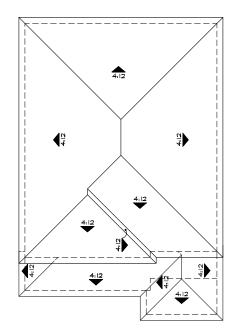




First Floor Plan 'B'







'A'
B'
Roof Plans

232.2142 3025-999424 2-STORY





Left Elevation 'A'



Front Elevation 'A' - Spanish Eclectic



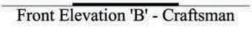
Right Elevation 'A'

Rear Elevation 'A'



TOP OF RIDGE.

Left Elevation 'B'







Right Elevation 'B'

Rear Elevation 'B'





Left Elevation 'D'

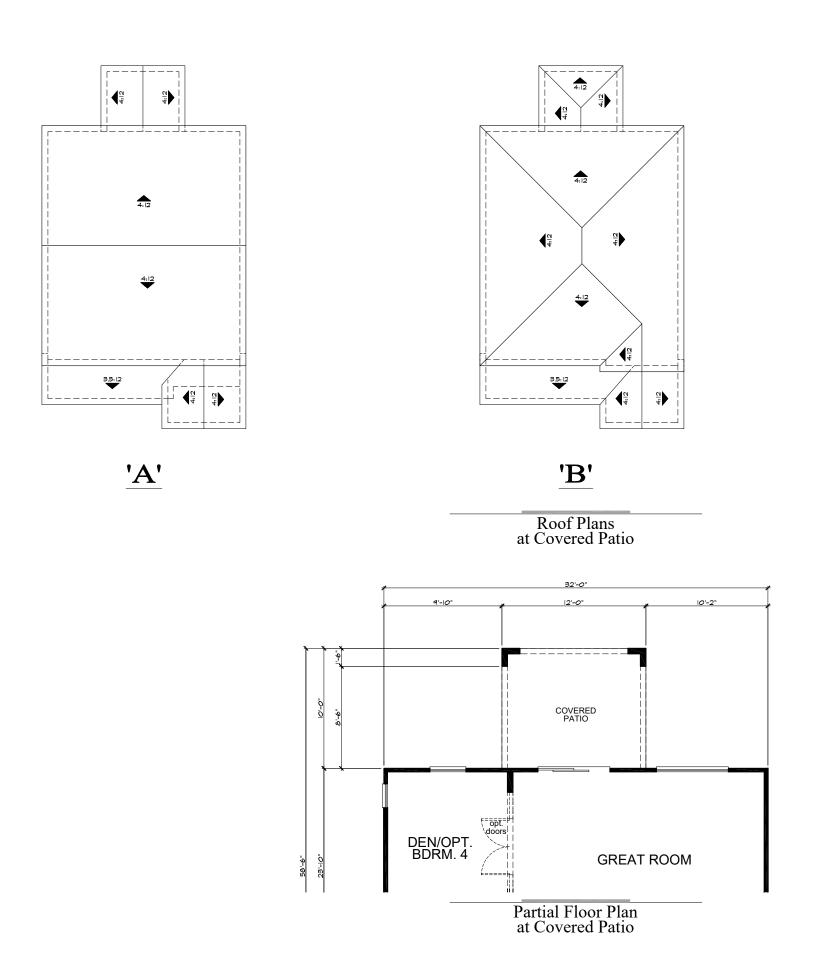


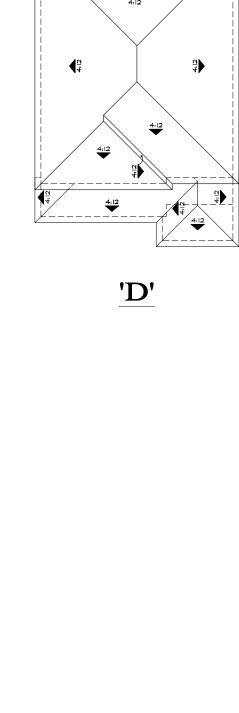
Front Elevation 'D' - Prairie



Right Elevation 'D'

Rear Elevation 'D'











Rear Elevation 'A'

Elevations at Covered Patio



Partial Left Elevation 'A'







Partial Right Elevation 'D'

Rear Elevation 'D'

Partial Left Elevation 'D'







Partial Right Elevation 'B'

Rear Elevation 'B'

Partial Left Elevation 'B'

Elevations at Covered Patio



Elevation 'A' Spanish Eclectic





**ELEVATION LEGEND** 

1 CONCRETE 'S' TILE ROOFING

STUCCO FINISH

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2 CONCRETE FLAT TILE ROOFING WOOD FASCIA BOARD / FASCIA GUTTER

STUCCO OVER FOAM TRIM

STUCCO OVER FOAM CORBELS

STUCCO COLUMNS (STUCCO OVER WOOD FRAMING)

METAL ROLL-UP GARAGE DOOR

DECORATIVE FOAM SHUTTERS

ILLUMINATED ADDRESS SIGN

OPTIONAL COACH LIGHT

DECORATIVE FOAM VENTS

DECORATIVE CLAY PIPES

DECORATIVE BOARD & BATTEN TAPERED COLUMNS (STUCCO OVER WOOD FRAMING)

WOOD CORBELS

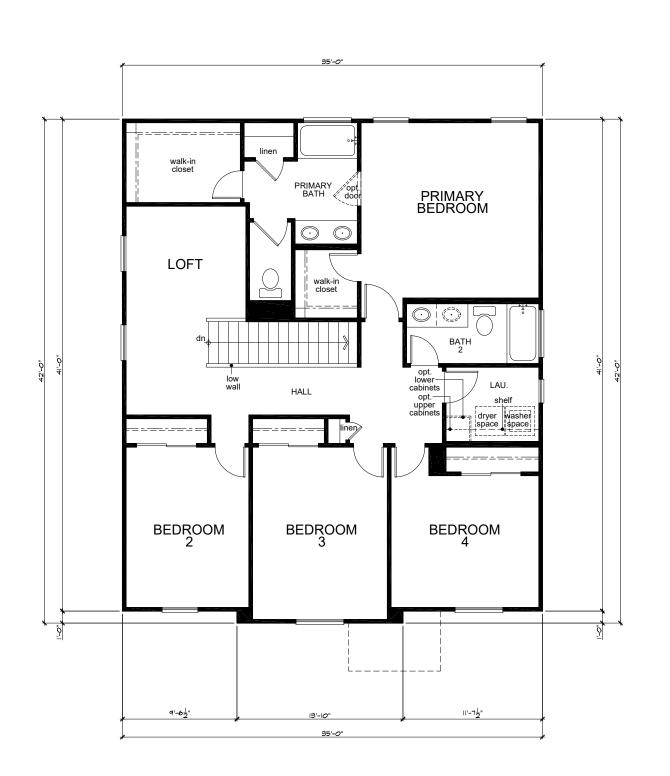
BRICK VENEER 22 STONE VENEER

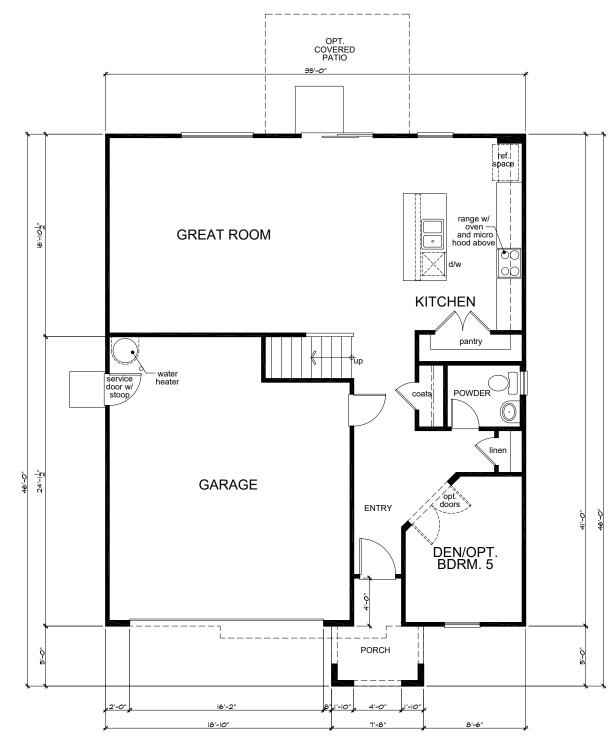
STUCCO OVER SHAPED FOAM TRIM

CEMENTITIOUS FIBER LAP SIDING

PRE-FAB WINDOW SYSTEM

COMPOSITE ENTRY DOOR



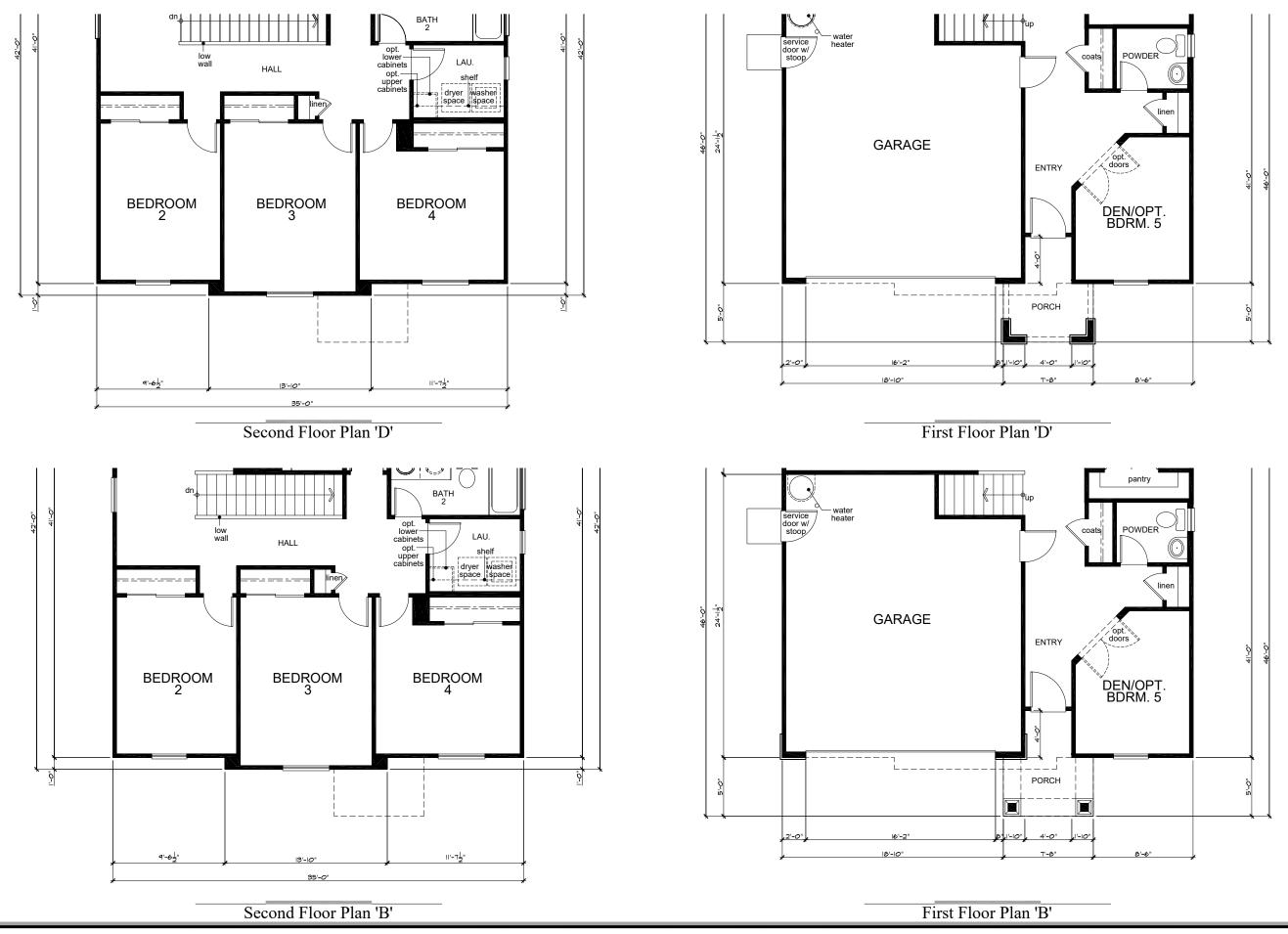


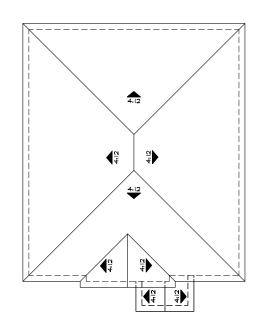
SQU	SQUARE FOOTAGE				
PLAN 235.2378					
	'A'	'B'	ַם'		
FIRST FLOOR AREA	954	954	954	SQ. FT.	
SECOND FLOOR AREA	1424	1424	1424	SQ. FT.	
TOTAL AREA	2378	2378	2378	SQ. FT	
GARAGE AREA	465	465	465	SQ. FT.	
PORCH AREA	54	54	54	SQ. FT.	
OPTIONS:					
COVERED PATIO	120	120	120	SQ. FT.	

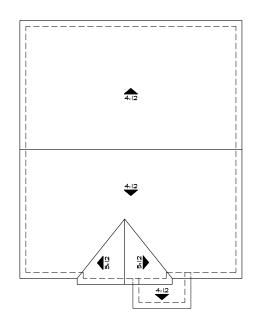
Second Floor Plan 'A'

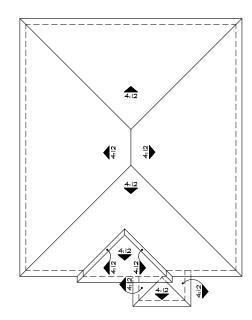
First Floor Plan 'A'

PLAN No.: 235.2378
JOB No.: 3025-999424
STORY: 2-STORY
March 28, 2025









Roof Plans





Left Elevation 'A'

Front Elevation 'A' - Spanish Eclectic





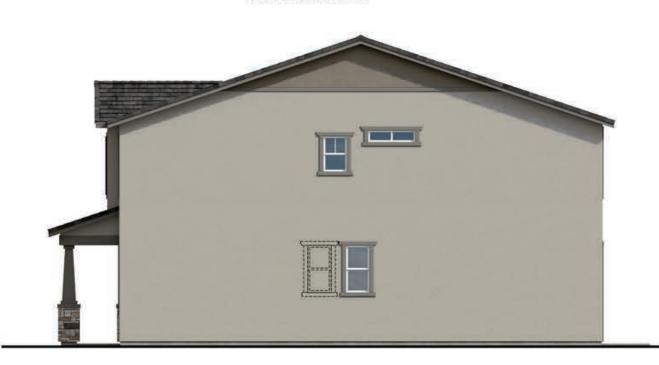
Right Elevation 'A'

Rear Elevation 'A'





Left Elevation 'B'



Front Elevation 'B' - Craftsman



Right Elevation 'B'

Rear Elevation 'B'





Left Elevation 'D'

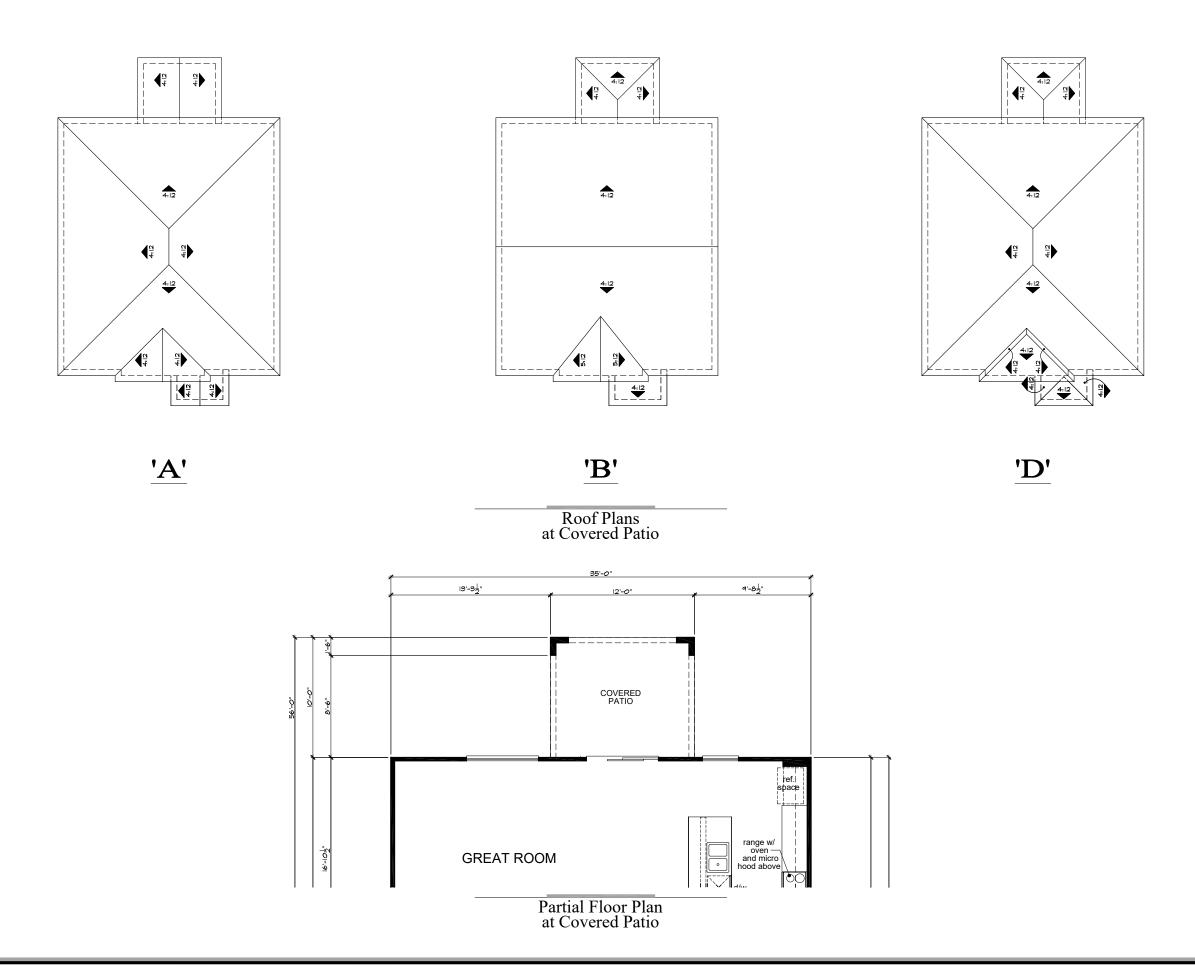


Front Elevation 'D' - Pairie



Right Elevation 'D'

Rear Elevation 'D'









Rear Elevation 'A'

Elevations at Covered Patio



Partial Left Elevation 'A'







Partial Right Elevation 'D'

Rear Elevation 'D'

Partial Left Elevation 'D'







Partial Right Elevation 'B'

Rear Elevation 'B'

Partial Left Elevation 'B'

Elevations at Covered Patio



2324 'D' French Cottage

2566 'B' Craftsman

1824 'A' Spanish Eclectic

## Street Scene



Elevation 'A' - Spanish Eclectic



Elevation 'B' - Craftsman



Elevation 'D' - Prairie

9

**ELEVATION LEGEND** 

STUCCO OVER FOAM TRIM

PRE-FAB WINDOW SYSTEM

COMPOSITE ENTRY DOOR

METAL ROLL-UP GARAGE DOOR

DECORATIVE FOAM SHUTTERS

ILLUMINATED ADDRESS SIGN

OPTIONAL COACH LIGHT

DECORATIVE FOAM VENTS

DECORATIVE CLAY PIPES

DECORATIVE BOARD & BATTEN TAPERED COLUMNS (STUCCO OVER WOOD FRAMING)

WOOD CORBELS

BRICK VENEER

STONE VENEER

CEMENTITIOUS FIBER LAP SIDING

STUCCO OVER SHAPED FOAM TRIM

STUCCO OVER FOAM CORBELS STUCCO COLUMNS (STUCCO OVER WOOD FRAMING)

1 CONCRETE 'S' TILE ROOFING 2 CONCRETE FLAT TILE ROOFING WOOD FASCIA BOARD / FASCIA GUTTER

STUCCO FINISH

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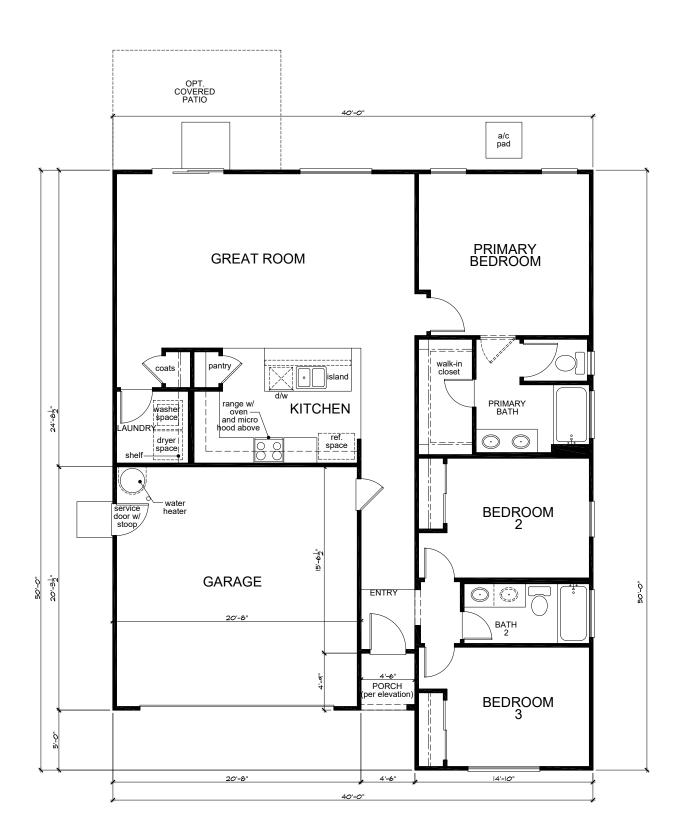
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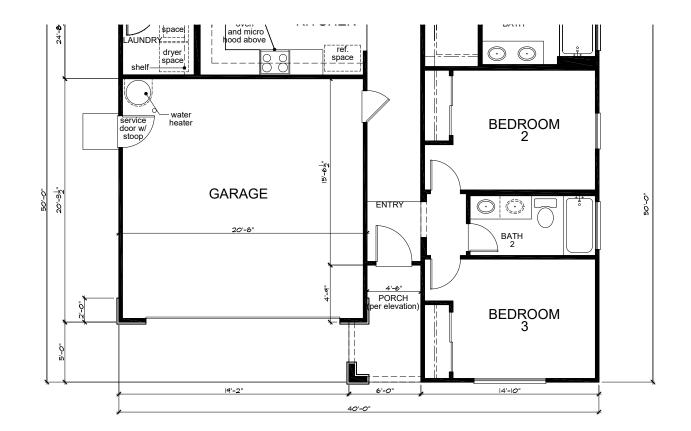
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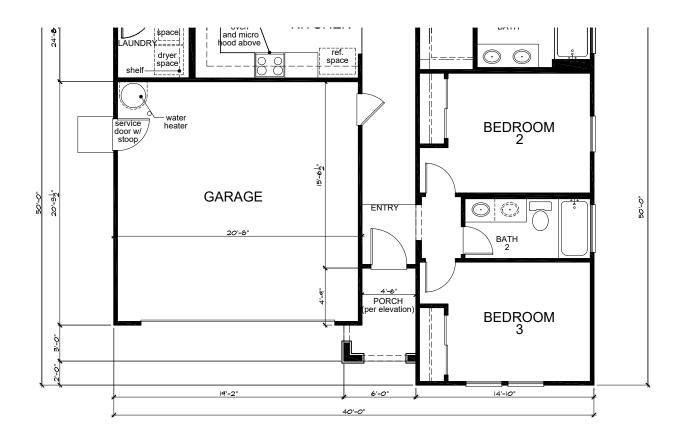
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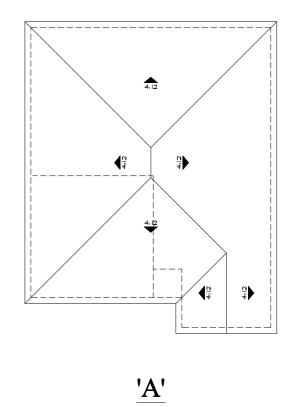
PLAN 140.1438							
FIRST FLOOR ARE	1438	50. FT.					
TOTAL AREA	4	1438	SQ. FT.				
GARAGE AREA PORCH AREA		415	SQ. FT.				
	ELEVATION "A"	21	SQ. FT.				
	ELEVATION "B"	51	SQ. FT.				
	ELEVATION "D"	39	SQ. FT.				

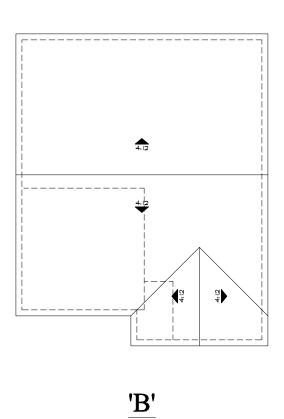
Floor Plan 'A'

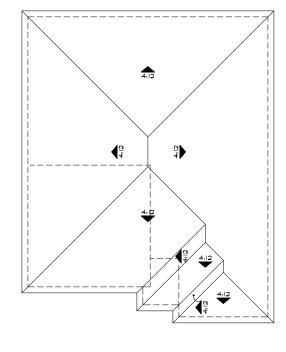




Floor Plan 'B'







<u>'D'</u>

Roof Plans





Left Elevation 'A'

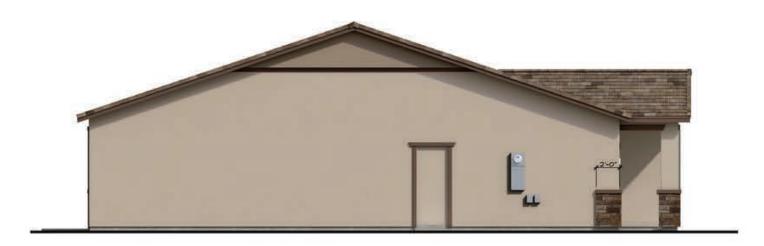
Front Elevation 'A' - Spanish Eclectic

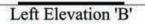




Right Elevation 'A'

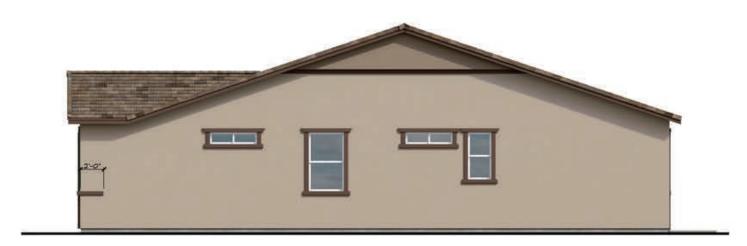
Rear Elevation 'A'







Front Elevation 'B' - Craftsman



Right Elevation 'B'



Rear Elevation 'B'





Left Elevation 'D'

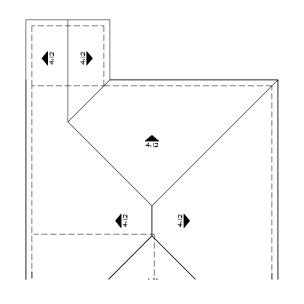
Front Elevation 'D' - Prairie

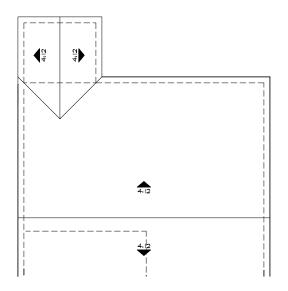


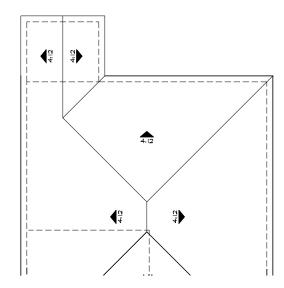


Right Elevation 'D'

Rear Elevation 'D'



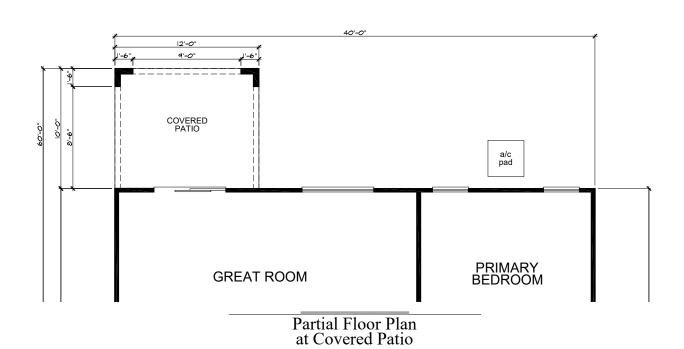




<u>'A'</u>

<u>'B'</u> Roof Plans at Covered Patio

<u>'D'</u>



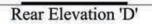


Rear Elevation 'A'

Partial Left Elevation 'A'

Elevations at Covered Patio







Partial Left Elevation 'D'



Rear Elevation 'B'



Partial Left Elevation 'B'

Elevations at Covered Patio



Elevation 'A' - Spanish Eclectic



- 1 CONCRETE 'S' TILE ROOFING
- 2 CONCRETE FLAT TILE ROOFING
- WOOD FASCIA BOARD / FASCIA GUTTER
- 4 STUCCO FINISH
- 5 STUCCO OVER FOAM TRIM
- 6 STUCCO OVER FOAM CORBELS
- STUCCO COLUMNS (STUCCO OVER WOOD FRAMING)
- 8 PRE-FAB WINDOW SYSTEM
- 9 COMPOSITE ENTRY DOOR
- 10 METAL ROLL-UP GARAGE DOOR
- $\square$ DECORATIVE FOAM SHUTTERS
- 12 STUCCO OVER SHAPED FOAM TRIM
- 13 ILLUMINATED ADDRESS SIGN
- 14 CEMENTITIOUS FIBER LAP SIDING OPTIONAL COACH LIGHT
- 16 WOOD CORBELS

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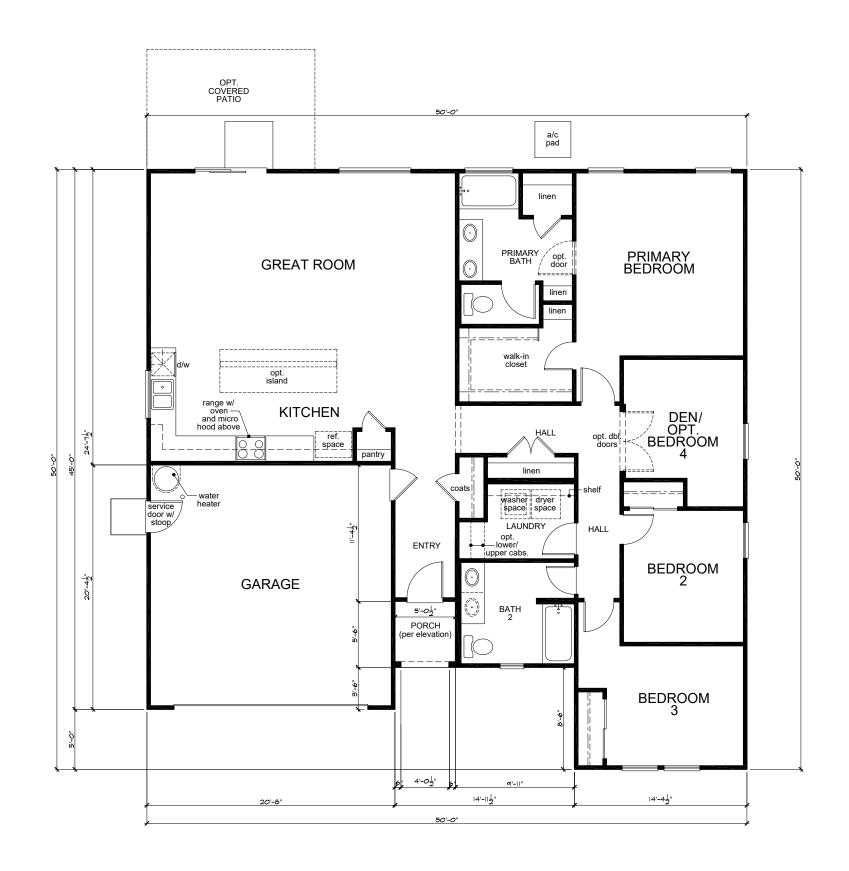
- 17 DECORATIVE FOAM VENTS
- 18 DECORATIVE CLAY PIPES
- 19 DECORATIVE BOARD & BATTEN
- TAPERED COLUMNS (STUCCO OVER WOOD FRAMING)
- 21 BRICK VENEER
- 22 STONE VENEER



Elevation 'B' - Craftsman

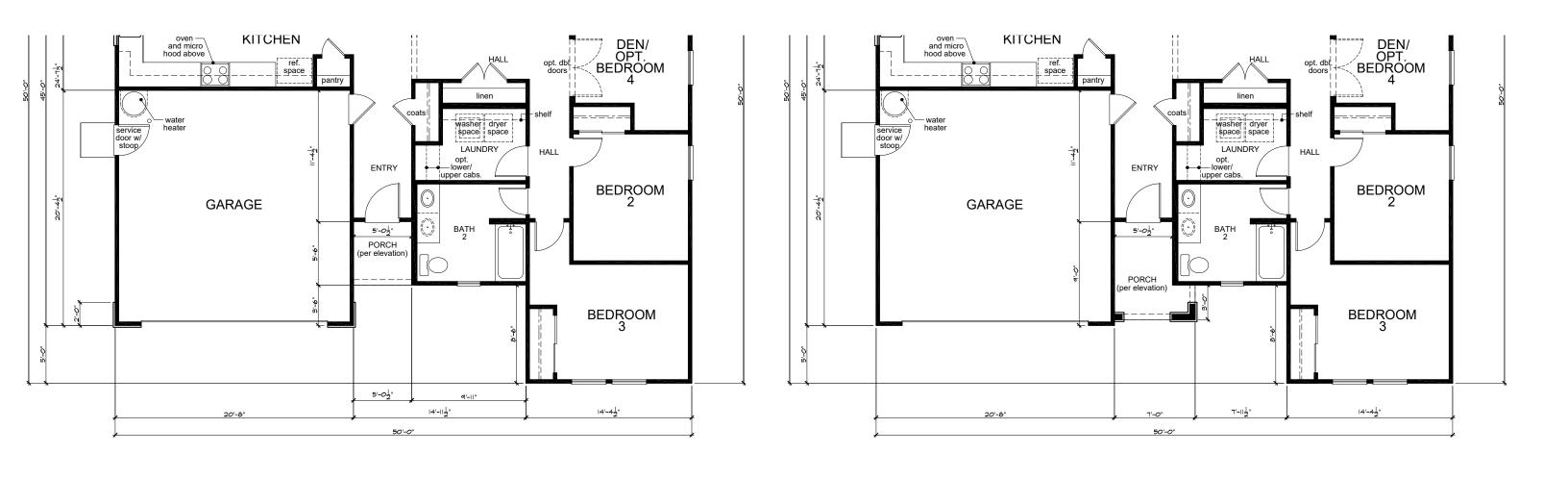


Elevation 'D' - Prairie



SQUARE FOOTAGE						
PLAN 150.1824						
	'A'	'B'	'D'			
FLOOR AREA	1824	1824	1824	SQ. FT.		
TOTAL AREA	1824	1824	1824	SQ. FT.		
GARAGE AREA	418	418	418	SQ. FT.		
PORCH AREA OPTIONS:	28	28	##	SQ. FT.		
COVERED PATIO	140	140	140	SQ. FT.		

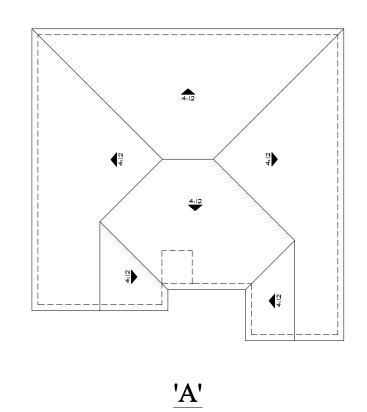
Floor Plan 'A'

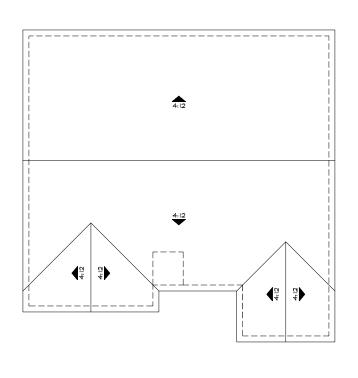


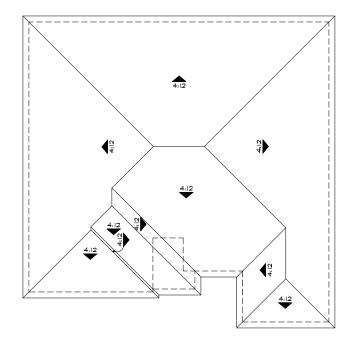
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CITY OF OAKLEY

Floor Plan 'B'

Floor Plan 'D'







<u>'D'</u>

Roof Plans

<u>'B'</u>

150.1824 3025-999424 1-STORY





Left Elevation 'A'

Front Elevation 'A' - Spanish Eclectic





Right Elevation 'A'

Rear Elevation 'A'





Left Elevation 'B'

Front Elevation 'B' - Craftsman





Right Elevation 'B'

Rear Elevation 'B'





Left Elevation 'D'

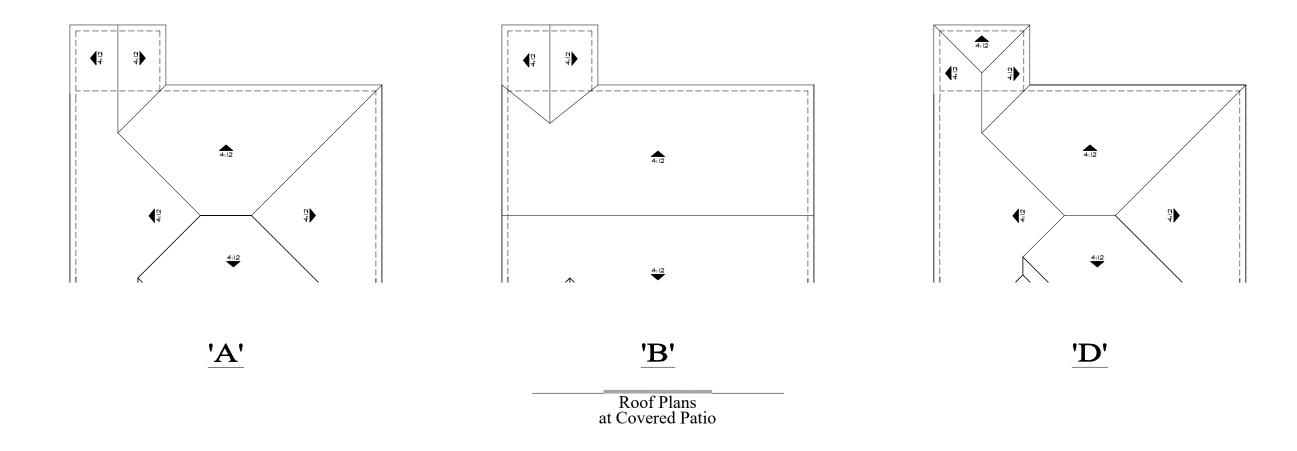
Front Elevation 'D' - Prairie

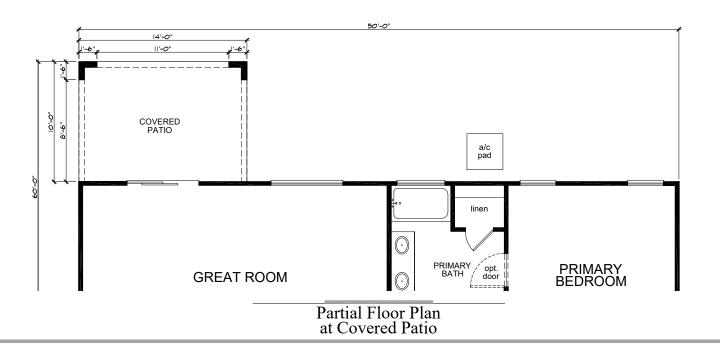




Right Elevation 'D'

Rear Elevation 'D'







Rear Elevation 'A'

Partial Left Elevation 'A'

Elevations at Covered Patio





Rear Elevation 'D'

Partial Left Elevation 'D'





Rear Elevation 'B'

Partial Left Elevation 'B'

Elevations at Covered Patio







ELEVATION LEGEND

CONCRETE STILLE ROOFING

STUCCO OVER FOAM TRIM

PRE-FAB WINDOW SYSTEM

COMPOSITE ENTRY DOOR

METAL ROLL-UP GARAGE DOOR

DECORATIVE FOAM SHUTTERS

ILLUMINATED ADDRESS SIGN

OPTIONAL COACH LIGHT

DECORATIVE FOAM VENTS

DECORATIVE CLAY PIPES

DECORATIVE BOARD & BATTEN
TAPERED COLUMNS
(STUCCO OVER WOOD FRAMING)

WOOD CORBELS

BRICK VENEER

STONE VENEER

CEMENTITIOUS FIBER LAP SIDING

STUCCO OVER SHAPED FOAM TRIM

STUCCO OVER FOAM CORBELS STUCCO COLUMNS (STUCCO OVER WOOD FRAMING)

STUCCO FINISH

CONCRETE FLAT TILE ROOFING WOOD FASCIA BOARD / FASCIA GUTTER

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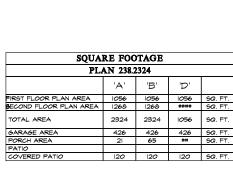
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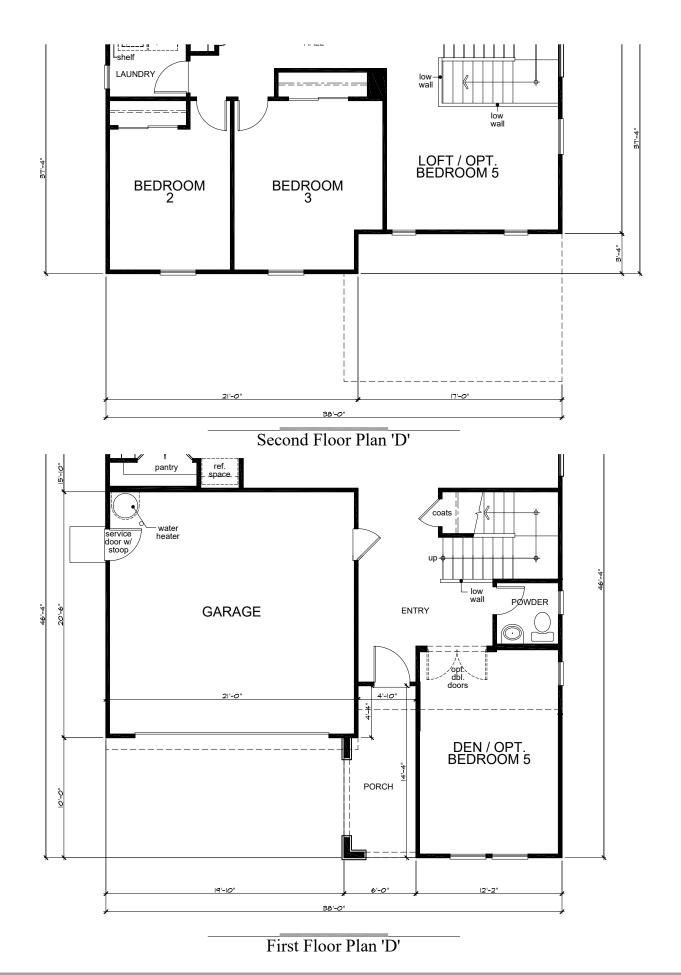
Second Floor Plan 'A'

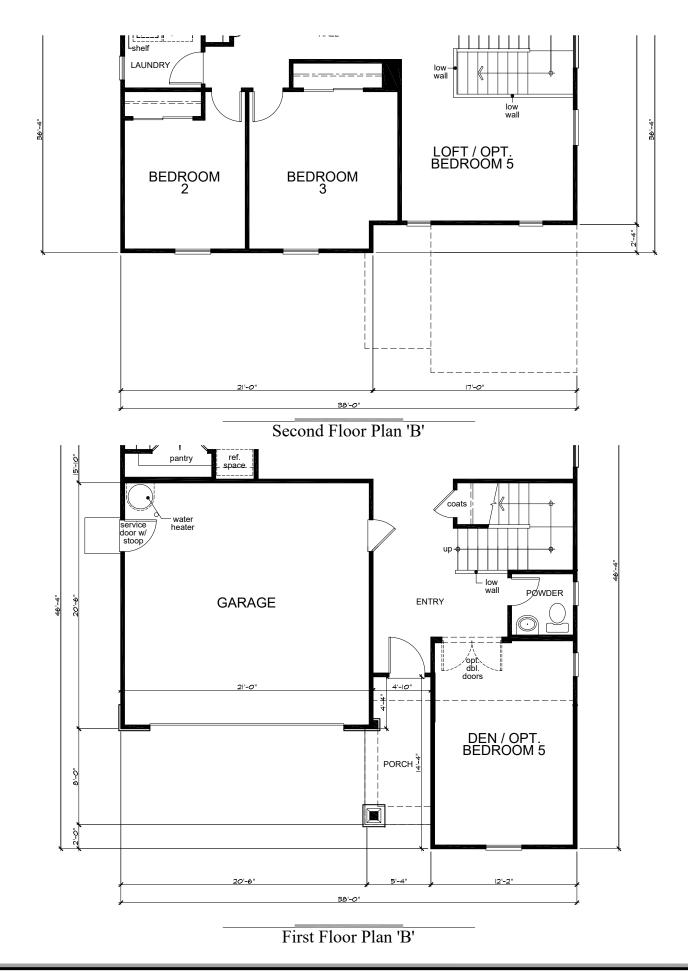


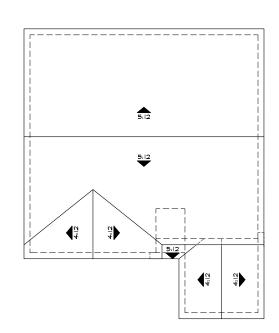
OPT. COVERED PATIO a/c pad **KITCHEN** range w/ oven and micro hood above **GREAT ROOM** PØWDER GARAGE ENTRY PORCH DEN / OPT. BEDROOM 5

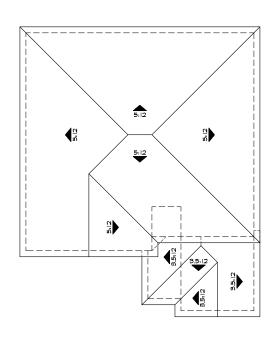
First Floor Plan 'A'

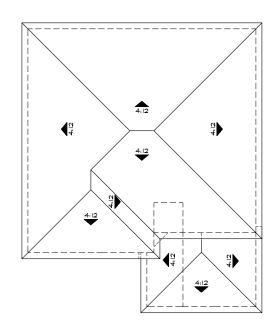
KB Home North Bay 4830 Business Center Drive Suite 150 Fairfield, CA 94534 (707) 389-7500 CITY OF OAKLEY







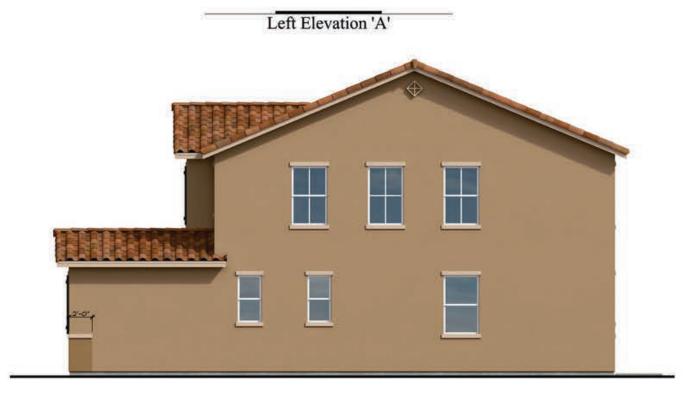




Roof Plans







Right Elevation 'A'



Front Elevation 'A' - Spanish Eclectic

Rear Elevation 'A'





Left Elevation 'B'



Front Elevation 'B' - Craftsman

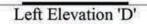


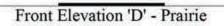
Right Elevation 'B'

Rear Elevation 'B'







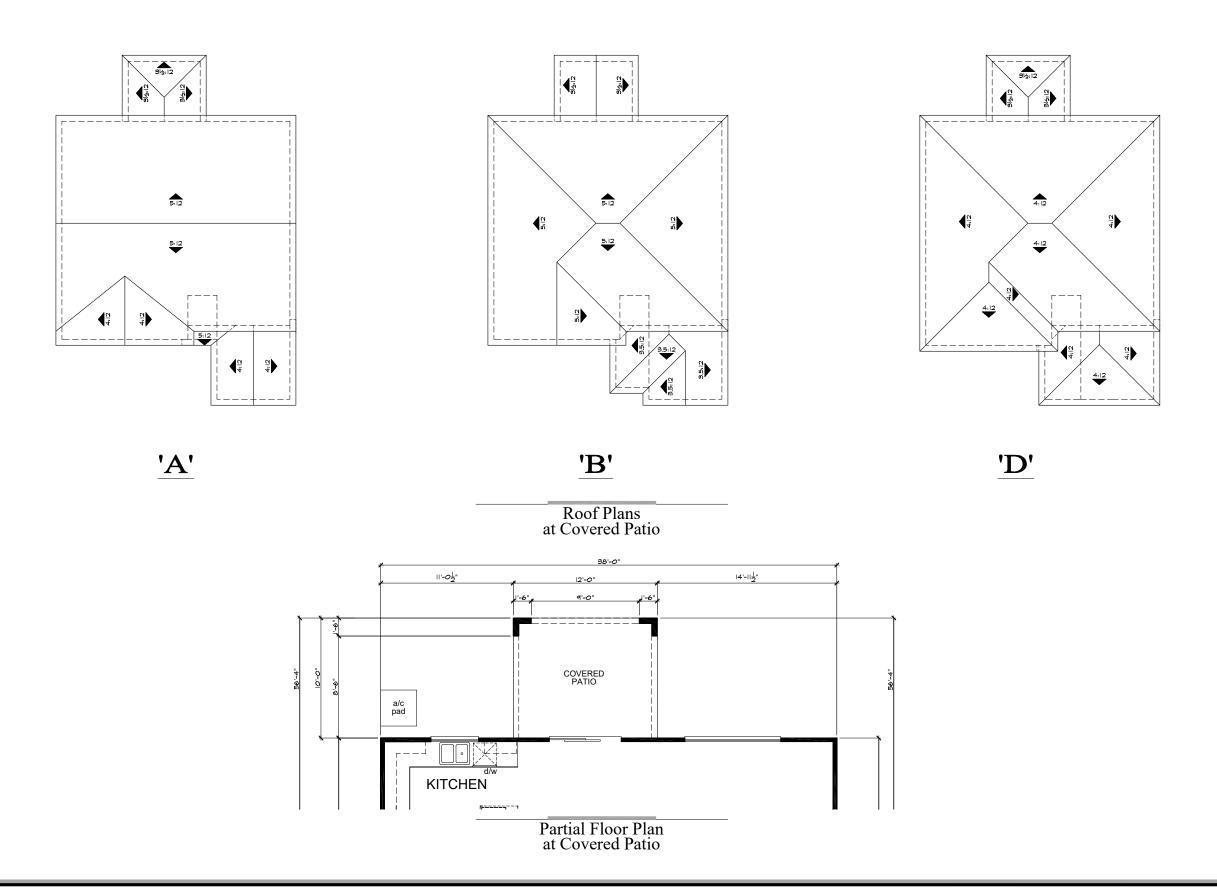






Right Elevation 'D'

Rear Elevation 'D'









Rear Elevation 'A'

Elevations at Covered Patio



Partial Left Elevation 'A'







Partial Right Elevation 'D'

Rear Elevation 'D'

Partial Left Elevation 'D'



Partial Right Elevation 'B'



Rear Elevation 'B'

Partial Left Elevation 'B'

Elevations at Covered Patio 





**ELEVATION LEGEND** 

STUCCO OVER FOAM TRIM

PRE-FAB WINDOW SYSTEM

COMPOSITE ENTRY DOOR

METAL ROLL-UP GARAGE DOOR

DECORATIVE FOAM SHUTTERS

ILLUMINATED ADDRESS SIGN

OPTIONAL COACH LIGHT

DECORATIVE FOAM VENTS

DECORATIVE CLAY PIPES

DECORATIVE BOARD & BATTEN
TAPERED COLUMNS
(STUCCO OVER WOOD FRAMING)

WOOD CORBELS

BRICK VENEER

STONE VENEER

STUCCO OVER SHAPED FOAM TRIM

CEMENTITIOUS FIBER LAP SIDING

STUCCO OVER FOAM CORBELS
STUCCO COLUMNS
(STUCCO OVER WOOD FRAMING)

1 CONCRETE 'S' TILE ROOFING
2 CONCRETE FLAT TILE ROOFING
3 WOOD FASCIA BOARD / FASCIA GUTTER

STUCCO FINISH

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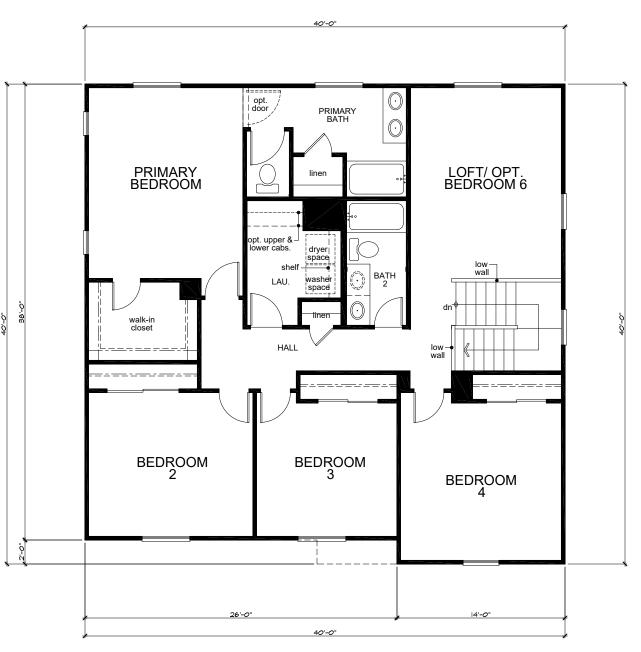
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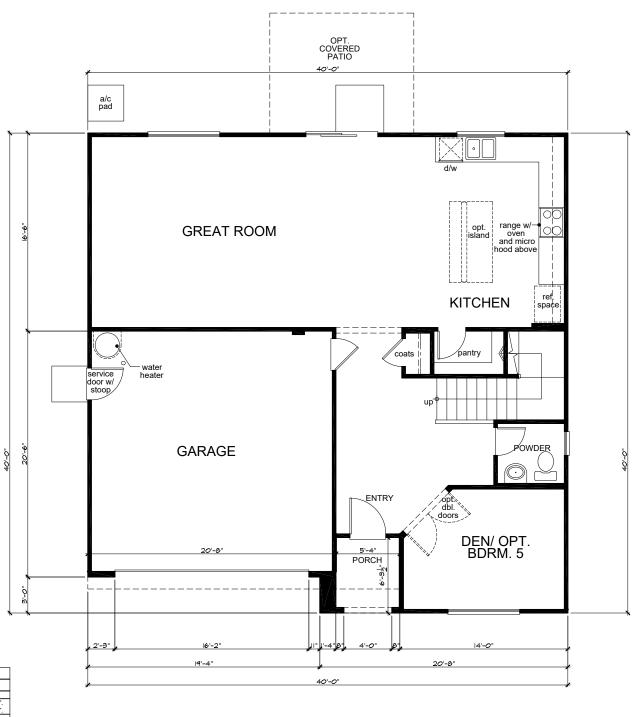
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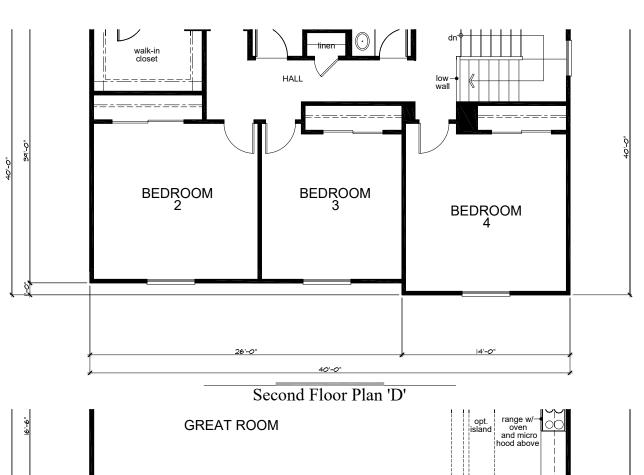


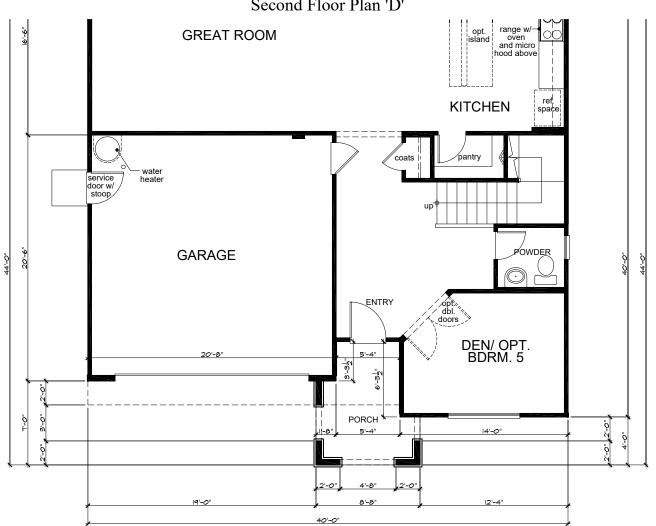
Second Floor Plan 'A'



First Floor Plan 'A'

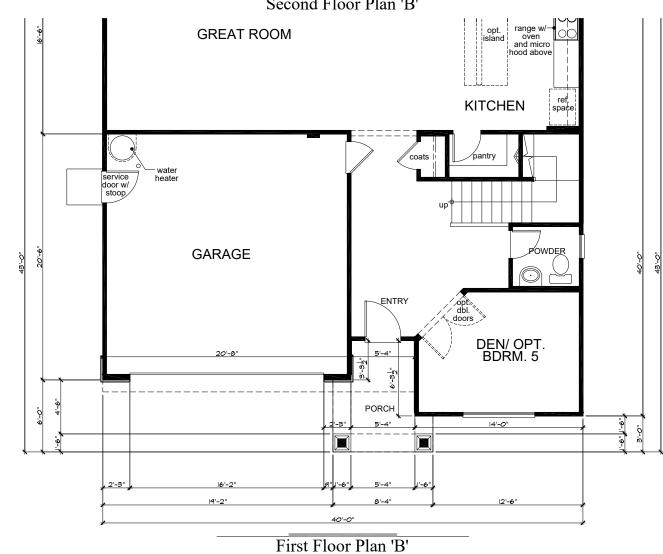
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CITY OF OAKLEY

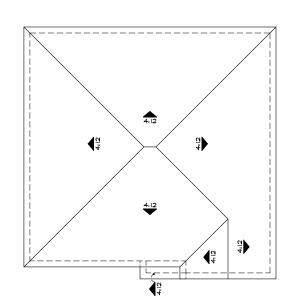


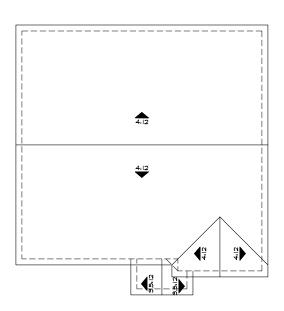


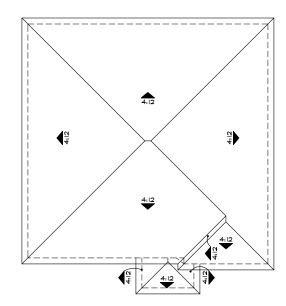
First Floor Plan 'D'











<u>'A'</u>

**'B'** 

<u>'D'</u>

Roof Plans



Left Elevation 'A'

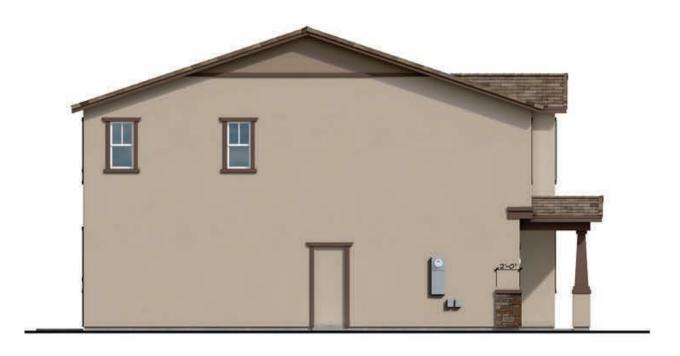


Front Elevation 'A' - Spanish Eclectic

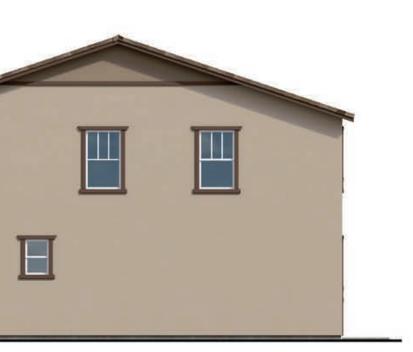


Right Elevation 'A'

Rear Elevation 'A'



Left Elevation 'B'

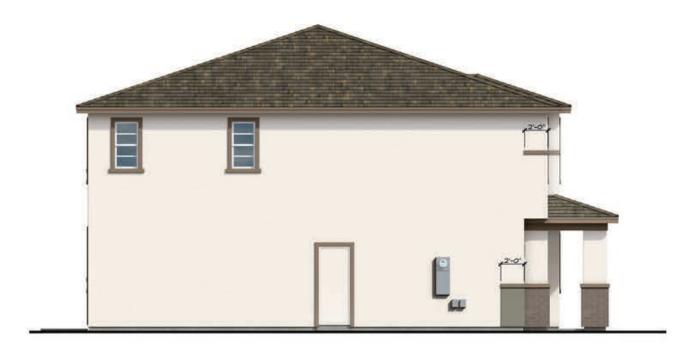


Front Elevation 'B' - Craftsman



Right Elevation 'B'

Rear Elevation 'B'





Left Elevation 'D'

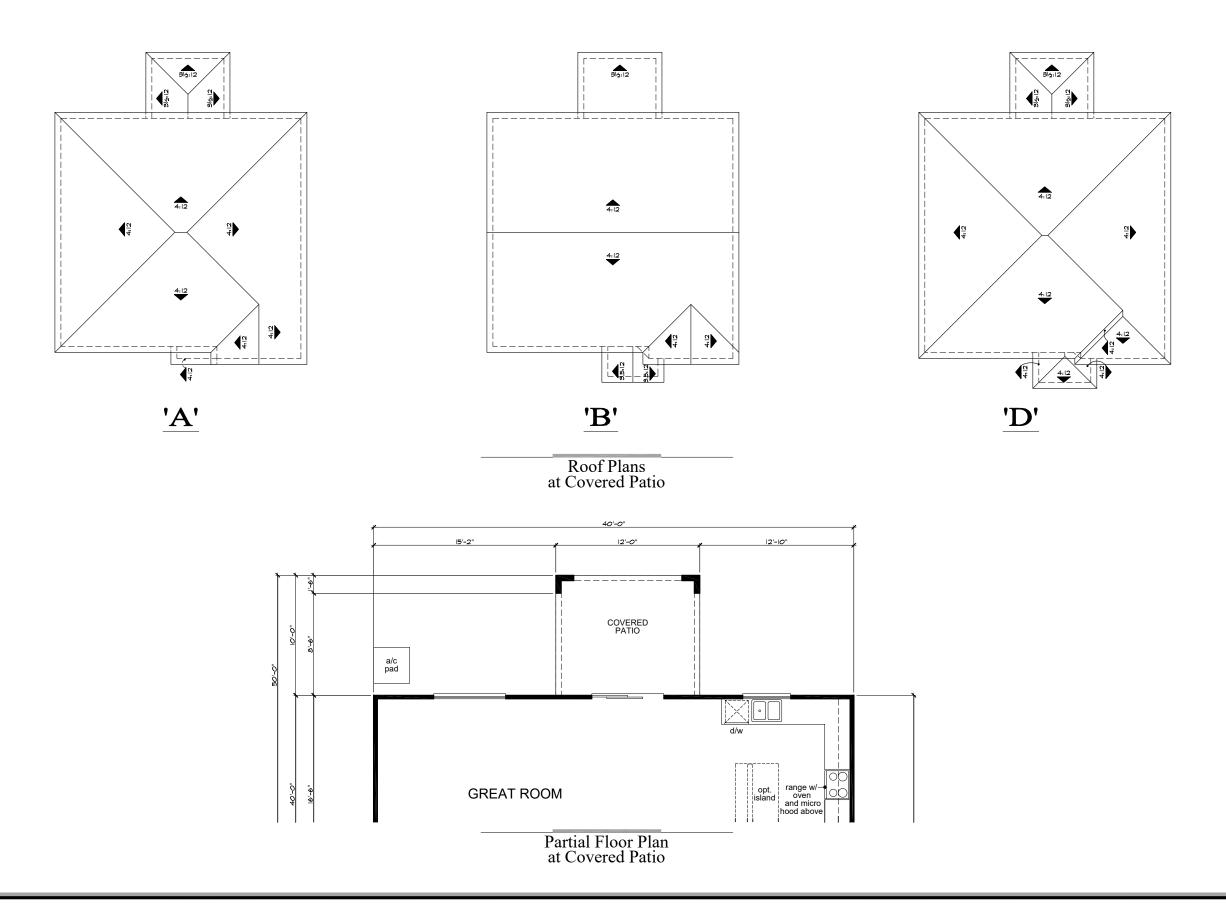


Front Elevation 'D' - Prairie



Right Elevation 'D'

Rear Elevation 'D'



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Rear Elevation 'A'

Elevations at Covered Patio Partial Left Elevation 'A'







Rear Elevation 'D'



Partial Left Elevation 'D'

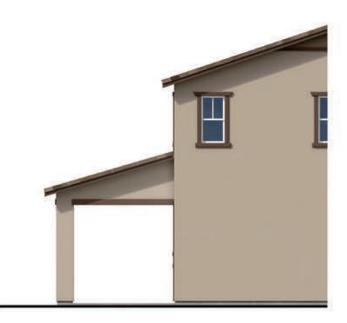


Partial Right Elevation 'B'



Rear Elevation 'B'

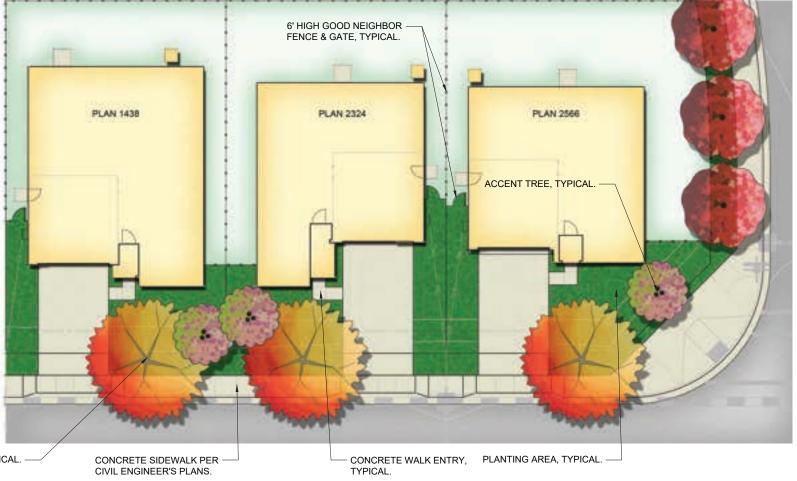
Elevations at Covered Patio



Partial Left Elevation 'B'







### **IRRIGATION NOTES**

- THE IRRIGATION DESIGN FOR THE SITE SHALL COMPLY WITH THE STATE MANDATED MODEL WATER EFFICIENT LANDSCAPE
- THE IRRIGATION SYSTEMS WILL BE AUTOMATICALLY CONTROLLED BY AN ET/SMART! IRRIGATION CONTROLLER CAPABLE OF MULTIPLE PROGRAMMING AND INDEPENDENT TIMING OF INDIVIDUAL IRRIGATION SYSTEMS. THE CONTROLLER WILL HAVE A 24-HOUR CLOCK TO ALLOW MULTIPLE START TIMES AND REPEAT CYCLES TO ADJUST FOR SOIL PERCOLATION RATES.
- THE IRRIGATION SYSTEMS WILL CONSIST PRIMARILY OF LOW VOLUME, LOW FLOW BUBBLERS FOR TREES, AND POINT SOURCE DRIP IRRIGATION FOR SHRUBS AND GROUNDCOVERS
- PLANTS WILL BE GROUPED ONTO SEPARATE VALVES ACCORDING TO SUN EXPOSURE AND WATER USE TO ALLOW FOR IRRIGATION APPLICATION BY HYDROZOME THE IRRIGATION SCHEDULING WILL REFLECT THE REGIONAL EVAPO-TRANSPIRATION RATES. THE ENTIRE SITE WILL BE DESIGNED TO RUN DURING NIGHTTIME HOURS WHEN IRRIGATION IS MOST EFFICIENT.
- ALL MWELO DOCUMENTATION INCLUDING IRRIGATION PLANS. WATER USE CALCULATIONS AND CERTIFICATES SHALL BE SUBMITTED WITH THE LANDSCAPE IMPROVEMENT PLANS FOR REVIEW AND APPROVAL.

### **PLANTING NOTES**

THE PLANTING DESIGN FOR THE SITE IS DROUGHT TOLERANT AND CONSISTS OF A BALANCE OF EVERGREEN AND DECIDUOUS

SYMBOL

**BOTANICAL NAME** 

ACCENT TREES

PRUNUS C. 'KRAUTER VESUVIUS'

QUERCUS AGRIFOLIA

- PROPOSED TREE LOCATIONS ARE BASED ON STANDARD JOINT TRENCH LOCATIONS. FINAL TREE LOCATIONS TO BE DETERMINED WHEN FINAL UTILITY LOCATIONS ARE PROVIDED TREE PLACEMENT MAY BE ADJUSTED AND FINAL TREE COUNT
- ALL SHRUBS AND GROUNDCOVER MATERIAL SELECTED HAVE A WUCOLS WATER USE RATING OF VERY LOW TO MODERATE.
- PROPOSED TREE CANOPIES ARE SHOWN AT 85% MATURE GROWTH DIAMETER IN ORDER TO ENSURE THERE IS SUFFICIENT ROOM FOR TREE GROWTH AND HEALTH.

STREET AND MEDIAN TREES SHOULD BE OF A MINIMUM 24" BOX CONTAINER SIZE ON ARTERIAL STREETS, AND A MINIMUM 15 GALLON CONTAINER SIZE ON COLLECTOR AND LOCAL STREETS. TREES SHOULD BE PROPERLY STAKED AT THE TIME OF PLANTING. SHRUBS NOT USED AS GROUNDCOVER SHOULD BE A MINIMUM OF 5 GALLON CONTAINER SIZE. PERENNIALS USED ON STREETS SHOULD BE A MINIMUM OF 1 GALLON CONTAINER SIZE

#### NOTES:

- TREE LAYOUT IS SCHEMATIC. FINAL TREE LOCATIONS AND SPECIES SUBJECT TO CITY REVIEW. STREET TREES LOCATED APPROXIMATELY 30' O.C.
- ALL LANDSCAPE AREAS THAT ARE INSTALLED BY DEVELOPER SHALL RECEIVE IRRIGATION BY MEANS OF AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM(S). THE SYSTEM(S) WILL BE DESIGNED UTILIZING BACKFLOW PREVENTIÓN DEVICES TO MEET LOCAL AND UBC CODES

#### MANZANITA JAPANESE BARBERRY TANGERINE STALKED BULBINE BOTTLE BRUSH ARBUTUS 'MARINA 15 GAL 5 GAL 1 GAL 5 GAL 5 GAL 5 GAL 5 GAL 1 GAL 1 GAL 1 GAL 1 GAL 5 GAL BERBERIS SP. BULBINE F. 'TINY TANGERINE CALLISTEMON 'LITTLE JOHN' CEANOTHUS SP. DODONAEA V. PURPUREA PURPLE HOPSEED BUSH 15 GAL LAGERSTROEMIA I. X FAURIEI 'ZUNI CRAPE MYRTLE 15 GAL LOW WILD LILAC ROCK ROSE CISTUS SPP. DIETES VEGETA DODONAEA V. 'PURPUREA' LAGERSTROEMIA I. 'WHIT II' CRAPE MYRTLE 15 GAL LOW FORTNIGHT LILY PURPLE HOPSEED BUSH 15 GAL DODONAEA V. PURPUREA: LAVANDULA S. 'JAVELIN FORTE' LEUCOPHYLLUM L. 'BRAVEHEART LOMANDRA SPP. MAHONIA A. 'COMPACTA' MUHLENBERGIA CAPILLARIS NANDINA D. 'HARBOR DWARF' LOW PRUNUS C. 'MONUS' BRIGHT 'N TIGHT LAVANDER TEXAS RANGER RHAPHIOLEPIS I. 'MAGNIFICENT 15 GAL RUSH DWARF OREGON GRAPE PINK-RED MUHLY HEAVENLY BAMBOO HEAVENLY BAMBOO STREET TREES NANDINA D. 'LEMON LIME 15 GAL PENSTEMON 'CHA CHA CHERR' PENS IEMON CHA CHA CHERRY PHORMIUM T. SPP. RHAMNUS C. 'EVE CASE' PODOCARPUS M. MAKI ROSMARINUS O. TUSCAN BLUE' RHAPHOLEPIS SPP. SALVIA G.'RHYTHM & BLUES' SOLLYA HETEROPHYLLA TEUCRIUM SPP. NEW ZEALAND FLAX GINKGO B. 'PRINCETON SENTRY' PRINCETON SENTRY GINGKO 15 GAL LAURUS X 'SARATOGA' SARATOGA HYRRID I ALIREI 15 GAL INDIA HAWTHORN SALVIA AUSTRALIAN BLUEBELL CREEPER PISTACIA C. 'RED PUSH' 15 GAL CHINESE PISTACHE LOW 15 GAL QUERCUS ILEX HOLLY OAK LOW GERMANDER COMPACT SHINY XYLOSMA XYLOSMA C 'COMPACTA' PURPLE ROBE LOCUS 15 GAL PARK TREES\* **GROUNDCOVERS** CHITALPA T. 'PINK DAWN' CHITALPA 15 GAL LOW ARCTOSTAPHYLOS U 'POINT REYES' 1 GAL LOW LOW LOW LOW LOW LOW LOW LOW MANZANITA EUROPEAN GRAY SEDGE COPROSMA KIRKII VARIEGATA BEARBERRY COTONEASTER LYDIA BROOM MYOPORUM FAIRY FAN FLOWER CAREX DIVULSA LAGERSTROEMIA I. X FAURIEI 'ZUN CRAPE MYRTLE 15 GAL LOW CAREX DIVULSA COPROSMA K. 'VARIEGATA' COTONEASTER D. LOWFAST GENISTA LYDIA MYOPORUM P. 'PROSTRATUM' SCAEVOLA' 'MAUVE CLUSTER' STACHYS BYZANTINA MESTENICALE 'MIRDI' LAGERSTROEMIA I. 'TUSCARORA' CRAPE MYRTLE 15 GAL MELALEUCA QUINQUENERVIA PAPERBARK TREE 15 GAL LOW

15 GAL

15 GAL

15 GAL

PROPOSED PLANT PALETTE

MIN. SIZE WUCOLS SYMBOL BOTANICAL NAME

SHRUBS

WESTRINGIA F. 'MUNDI

ALL TREES SHALL BE STANDARD.

COMMON NAME

PURPLE LEAF PLUM

COAST LIVE OAK

VALLEY OAK

### **BURROUGHS PROPERTY**

OAKLEY, CALIFORNIA

### TYPICAL LOT ENLARGEMENTS

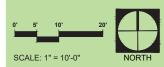
CONCEPTUAL LANDSCAPE PLAN NOVEMBER 26, 2024

\*(24) PARK TREES SHALL BE 24" BOX IN SIZE OR GREATER AS MITIGATION FOR HERITAGE TREES REMOVED



LOW

LOW



WATER NEEDS BASED ON THE WATER USE CLASSIFICATION OF LANDSCAPE SPECIES (WUCOLS) BY THE UNIVERSITY OF CALIFORNIA COOPERATIVE EXTENSION

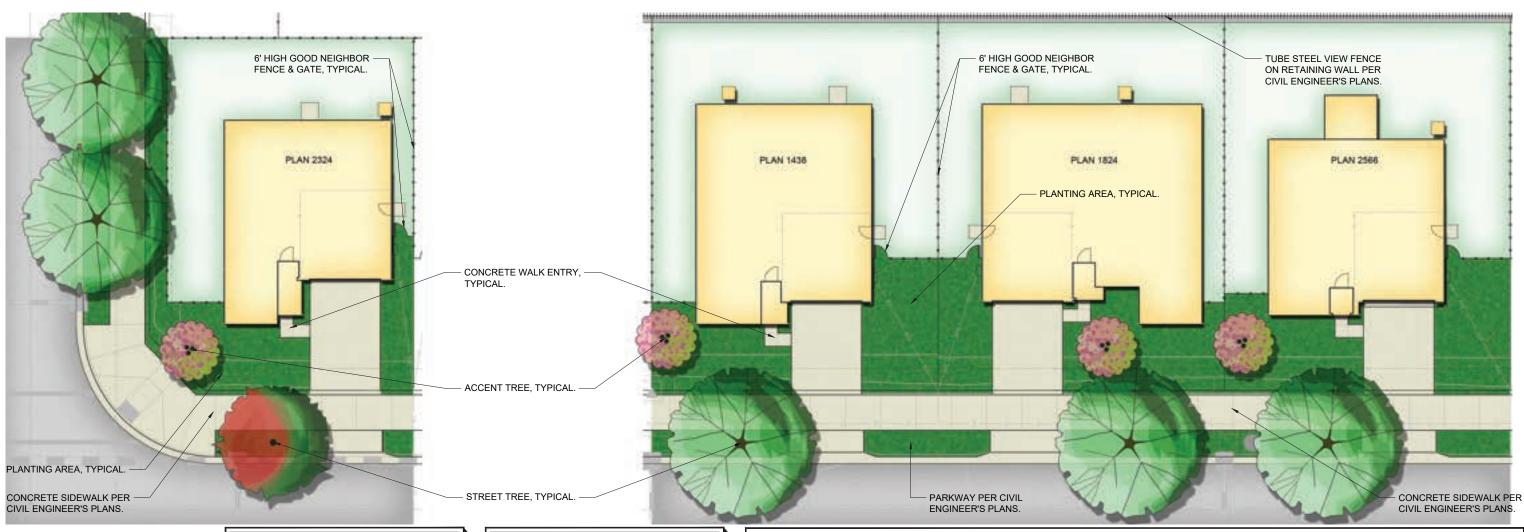
LAMBS' EARS LOW COAST ROSEMARY

COMMON NAME



MIN. SIZE WUCOLS

HOME



### **IRRIGATION NOTES**

- THE IRRIGATION DESIGN FOR THE SITE SHALL COMPLY WITH THE STATE MANDATED MODEL WATER EFFICIENT LANDSCAPE
- THE IRRIGATION SYSTEMS WILL BE AUTOMATICALLY CONTROLLED BY AN ET/SMART! IRRIGATION CONTROLLER CAPABLE OF MULTIPLE PROGRAMMING AND INDEPENDENT TIMING OF INDIVIDUAL IRRIGATION SYSTEMS. THE CONTROLLER WILL HAVE A 24-HOUR CLOCK TO ALLOW MULTIPLE START TIMES AND REPEAT CYCLES TO ADJUST FOR SOIL PERCOLATION RATES.
- THE IRRIGATION SYSTEMS WILL CONSIST PRIMARILY OF LOW VOLUME, LOW FLOW BUBBLERS FOR TREES, AND POINT SOURCE DRIP IRRIGATION FOR SHRUBS AND GROUNDCOVERS
- PLANTS WILL BE GROUPED ONTO SEPARATE VALVES ACCORDING TO SUN EXPOSURE AND WATER USE TO ALLOW FOR IRRIGATION APPLICATION BY HYDROZOME THE IRRIGATION SCHEDULING WILL REFLECT THE REGIONAL EVAPO-TRANSPIRATION RATES. THE ENTIRE SITE WILL BE DESIGNED TO RUN DURING NIGHTTIME HOURS WHEN IRRIGATION IS MOST EFFICIENT.
- ALL MWELO DOCUMENTATION INCLUDING IRRIGATION PLANS. WATER USE CALCULATIONS AND CERTIFICATES SHALL BE SUBMITTED WITH THE LANDSCAPE IMPROVEMENT PLANS FOR REVIEW AND APPROVAL.

### **PLANTING NOTES**

- THE PLANTING DESIGN FOR THE SITE IS DROUGHT TOLERANT AND CONSISTS OF A BALANCE OF EVERGREEN AND DECIDUOUS
- PROPOSED TREE LOCATIONS ARE BASED ON STANDARD JOINT TRENCH LOCATIONS. FINAL TREE LOCATIONS TO BE DETERMINED WHEN FINAL UTILITY LOCATIONS ARE PROVIDED TREE PLACEMENT MAY BE ADJUSTED AND FINAL TREE COUNT
- ALL SHRUBS AND GROUNDCOVER MATERIAL SELECTED HAVE A WUCOLS WATER USE RATING OF VERY LOW TO MODERATE.
- PROPOSED TREE CANOPIES ARE SHOWN AT 85% MATURE GROWTH DIAMETER IN ORDER TO ENSURE THERE IS SUFFICIENT ROOM FOR TREE GROWTH AND HEALTH.

STREET AND MEDIAN TREES SHOULD BE OF A MINIMUM 24" BOX CONTAINER SIZE ON ARTERIAL STREETS, AND A MINIMUM 15 GALLON CONTAINER SIZE ON COLLECTOR AND LOCAL STREETS. TREES SHOULD BE PROPERLY STAKED AT THE TIME OF PLANTING. SHRUBS NOT USED AS GROUNDCOVER SHOULD BE A MINIMUM OF 5 GALLON CONTAINER SIZE. PERENNIALS USED ON STREETS SHOULD BE A MINIMUM OF 1 GALLON CONTAINER SIZE

### NOTES:

- TREE LAYOUT IS SCHEMATIC. FINAL TREE LOCATIONS AND SPECIES SUBJECT TO CITY REVIEW. STREET TREES LOCATED APPROXIMATELY 30' O.C.
- ALL LANDSCAPE AREAS THAT ARE INSTALLED BY DEVELOPER SHALL RECEIVE IRRIGATION BY MEANS OF AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM(S). THE SYSTEM(S) WILL BE DESIGNED UTILIZING BACKFLOW PREVENTION DEVICES TO MEET LOCAL AND UBC CODES

#### PROPOSED PLANT PALETTE SYMBOL **BOTANICAL NAME** COMMON NAME MIN. SIZE WUCOLS SYMBOL BOTANICAL NAME COMMON NAME MIN. SIZE WUCOLS ACCENT TREES SHRUBS MANZANITA JAPANESE BARBERRY TANGERINE STALKED BULBINE BOTTLE BRUSH ARBUTUS 'MARINA 15 GAL 5 GAL 1 GAL 5 GAL 5 GAL 5 GAL 1 GAL 5 GAL 1 GAL BERBERIS SP. BULBINE F. 'TINY TANGERINE CALLISTEMON 'LITTLE JOHN' CEANOTHUS SP. DODONAEA V. PURPUREA PURPLE HOPSEED BUSH 15 GAL LAGERSTROEMIA I. X FAURIEI 'ZUNI CRAPE MYRTLE 15 GAL LOW WILD LILAC ROCK ROSE CISTUS SPP. DIETES VEGETA DODONAEA V. 'PURPUREA' LAGERSTROEMIA I. 'WHIT II' CRAPE MYRTLE 15 GAL LOW ORTNIGHT LILY PURPLE HOPSEED BUSH DODONAEA V. PURPUREA: LAVANDULA S. 'JAVELIN FORTE' LEUCOPHYLLUM L. 'BRAVEHEART LOMANDRA SPP. MAHONIA A. 'COMPACTA' MUHLENBERGIA CAPILLARIS NANDINA D. 'HARBOR DWARF' 15 GAL PRUNUS C. 'MONUS' BRIGHT 'N TIGHT LOW LAVANDER TEXAS RANGER RHAPHIOLEPIS I. 'MAGNIFICENT 15 GAL RUSH DWARF OREGON GRAPE PINK-RED MUHLY HEAVENLY BAMBOO HEAVENLY BAMBOO STREET TREES NANDINA D 'I EMON I IME 15 GAL PENSTEMON 'CHA CHA CHERR' PHORMIUM T. SPP NEW ZEALAND FLAX PHORMIUM T. SPP. RHAMMUS C. "EVE CASE" PODOCARPUS M. MAKI ROSMARINUS O. TUSCAN BLUE" RHAPHIOLEPIS SPP. SALVIA G. "RHYTHM & BLUES" SOLLYA HETEROPHYLLA TEUCRIUM SPP. VI OSMA G. "COLDOCATION" GINKGO B. 'PRINCETON SENTRY' PRINCETON SENTRY GINGKO 15 GAL LAURUS X 'SARATOGA' SARATOGA HYRRID I ALIREI 15 GAL INDIA HAWTHORN SALVIA AUSTRALIAN BLUEBELL CREEPER PISTACIA C. 'RED PUSH' 15 GAL CHINESE PISTACHE LOW 15 GAL QUERCUS ILEX HOLLY OAK LOW GERMANDER COMPACT SHINY XYLOSMA XYLOSMA C 'COMPACTA' PURPLE ROBE LOCUS 15 GAL PARK TREES\* **GROUNDCOVERS** CHITALPA T. 'PINK DAWN' CHITALPA 15 GAL LOW ARCTOSTAPHYLOS U 'POINT REYES' 1 GAL LOW LOW LOW LOW LOW LOW LOW LOW MANZANITA EUROPEAN GRAY SEDGE COPROSMA KIRKII VARIEGATA BEARBERRY COTONEASTER LYDIA BROOM MYOPORUM FAIRY FAN FLOWER CAREX DIVULSA LAGERSTROEMIA I. X FAURIEI 'ZUN CRAPE MYRTLE 15 GAL LOW CAREX DIVULSA COPROSMA K. 'VARIEGATA' COTONEASTER D. LOWFAST GENISTA LYDIA MYOPORUM P. 'PROSTRATUM' SCAEVOLA' 'MAUVE CLUSTER' STACHYS BYZANTINA MESTENICALE 'MIRDI' LAGERSTROEMIA I. 'TUSCARORA' 15 GAL MELALEUCA QUINQUENERVIA PAPERBARK TREE 15 GAL LAMBS' EARS LOW COAST ROSEMARY PRUNUS C. 'KRAUTER VESUVIUS' PURPLE LEAF PLUM 15 GAL LOW WESTRINGIA F. 'MUNDI QUERCUS AGRIFOLIA COAST LIVE OAK 15 GAL LOW

15 GAL



**BURROUGHS PROPERTY** 

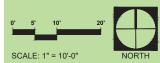
TYPICAL LOT WITH PARKWAY ENLARGEMENTS

CONCEPTUAL LANDSCAPE PLAN

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VALLEY OAK





WATER NEEDS BASED ON THE WATER USE CLASSIFICATION OF LANDSCAPE SPECIES (WUCOLS) BY THE UNIVERSITY OF CALIFORNIA COOPERATIVE EXTENSION.

ALL TREES SHALL BE STANDARD.





### **FENCE & WALL LEGEND**

6' HIGH GOOD NEIGHBOR FENCE & GATE,

 $6^{\circ}$  HIGH TUBE STEEL VIEW FENCE AT OPEN SPACE, TYPICAL.

PRECAST CONCRETE SPLIT RAIL FENCE AT EAST CYPRESS ROAD, TYPICAL.

SOUND WALL

PRECAST SOUND WALL AND RETAINING WALL. DETAILS, LAYOUT, AND SECTIONS PER CIVIL ENGINEERS PLANS.

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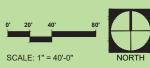
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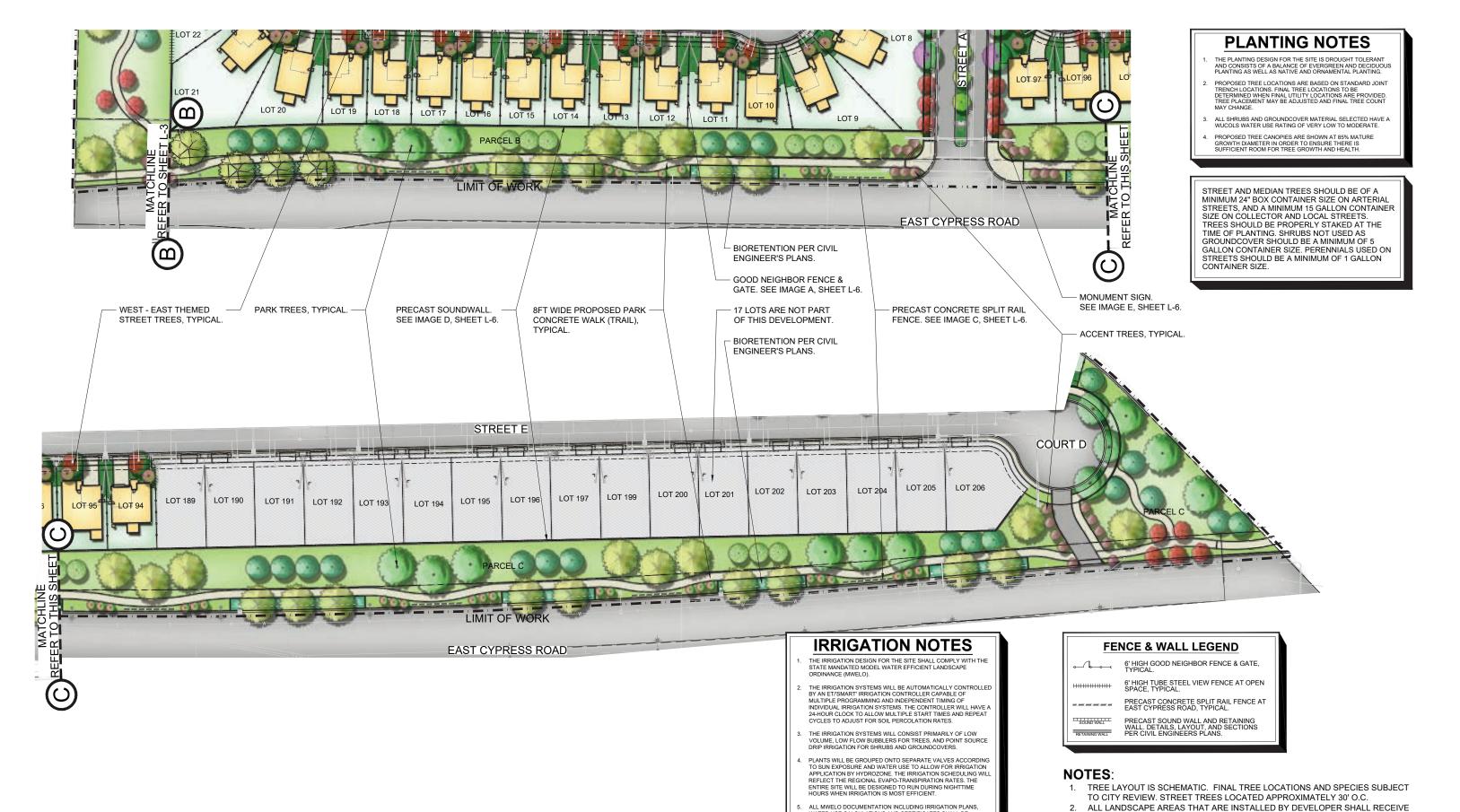




KB HOME - NORTH BAY 4830 BUSINESS CENTER DRIVE, SUITE 150, FAIRFIELD, CA 94534 HOME (707) 389-7500

### **BURROUGHS PROPERTY**

PARCEL A - PERIMETER PARK



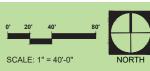


### **BURROUGHS PROPERTY**

OAKLEY, CALIFORNIA

CONCEPTUAL LANDSCAPE PLAN NOVEMBER 26, 2024

# tel: 707.224.2299



IRRIGATION BY MEANS OF AN AUTOMATIC UNDERGROUND IRRIGATION

SYSTEM(S). THE SYSTEM(S) WILL BE DESIGNED UTILIZING BACKFLOW

PREVENTION DEVICES TO MEET LOCAL AND UBC CODES



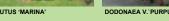
WATER USE CALCULATIONS AND CERTIFICATES SHALL BE

SUBMITTED WITH THE LANDSCAPE IMPROVEMENT PLANS FOR REVIEW AND APPROVAL.

### **ACCENT TREES**













PISTACIA C. 'RED PUSH'

STREET TREES





### PARK TREES







LAGERSTROEMIA I. 'TUSCARORA'



PRUNUS C. 'KRAUTER VESUVIUS'

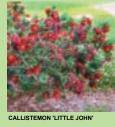




SHRUBS & ORNAMENTAL GRASSES



































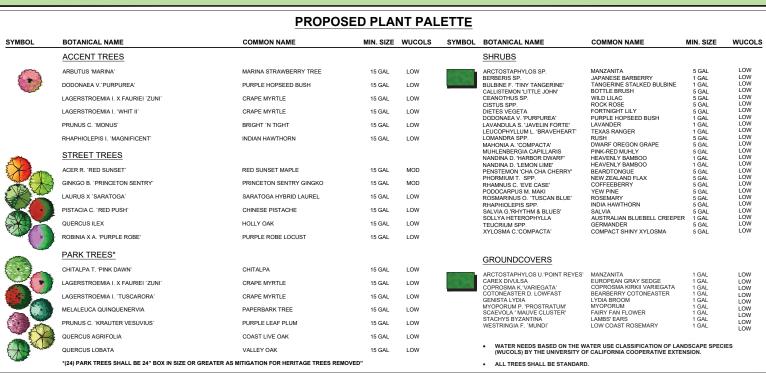














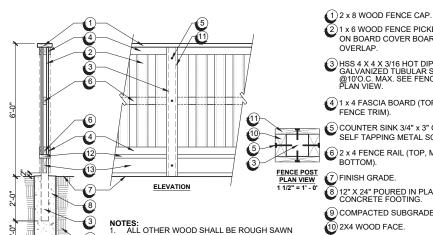
OAKLEY, CALIFORNIA

**PLANT IMAGERY** CONCEPTUAL LANDSCAPE PLAN

NOVEMBER 26, 2024







FENCING ALONG PROPERTY LINES SHALL BE INSTALLED ON PROPERTY SIDE OF LINE.

2)1 x 6 WOOD FENCE PICKET. BOARD ON BOARD COVER BOARD WITH 1"

3 HSS 4 X 4 X 3/16 HOT DIPPED GALVANIZED TUBULAR STEEL POST @10'O.C. MAX. SEE FENCE POST PLAN VIEW.

4 1 x 4 FASCIA BOARD (TOP & BOTTOM FENCE TRIM).

© COUNTER SINK 3/4" x 3" GALVANIZED SELF TAPPING METAL SCREWS.

6 2 x 4 FENCE RAIL (TOP, MIDDLE &

7 FINISH GRADE.

8 12" X 24" POURED IN PLACE DOMED CONCRETE FOOTING.

9 COMPACTED SUBGRADE. 10 2X4 WOOD FACE.

REDWOOD OR CEDAR.
APPLY ONE COAT OF A CITY APPROVED LIGHT TINT 1X8 WOOD FACE.

12 2X6 BOTTOM RAIL.

2X8 PRESSURE TREATED SKIRT BOARD.



PRECAST CONCRETE SPLIT RAIL FENCE

### GOOD NEIGHBOR FENCE W/ STEEL POST

SCALE: N.T.S.

STONE VENEER PILASTER & BASE WALL.

5 FINISH GRADE. 6 COMPACTED SUBGRADE.

2 STUCCO WALL. 3 LASER CUT IRON LETTERING.

CONCRETE FOOTING PER STRUCTURAL ENGINEER'S PLANS.

4 PRECAST CONCRETE CAP.



2'-10" MIN 1'-5" 1'-5" 2'-10" MIN 2'-0" MIN MIN MIN PLAN VIEW (NTS) 4 PLANTER AREA (5) ADJACENT PAVING 2 PEDESTAL ALL MALBOXES AND ACCESSORIES AVAILABLE THROUGH SALSBURY INDUSTRIES (800) 624-5269 WITH POWDER COAT FINISH, COLOR: BLACK 16-UNIT ELEVATION 3 CONCRETE PAD

PRECAST SOUNDWALL

MONUMENT SIGN



**CBU MAILBOX** SCALE: N.T.S.

PLANTING MATERIAL

**TURF AREA** 

TRAIL



POST SECTION

### **BURROUGHS PROPERTY**

OAKLEY, CALIFORNIA



NOVEMBER 26, 2024



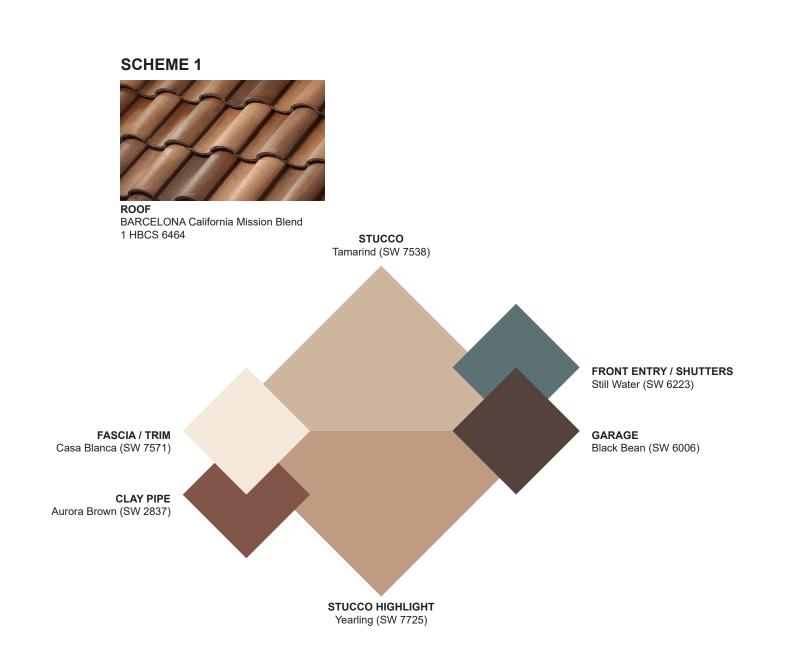


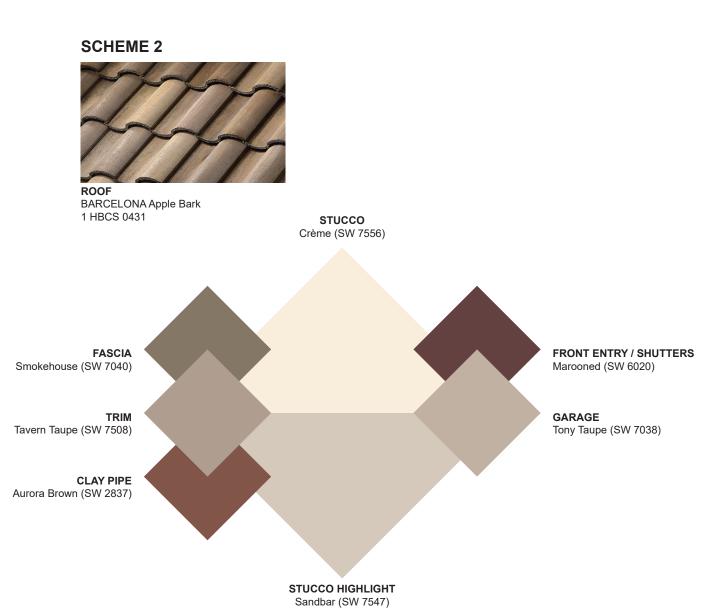
# **East Cypress**

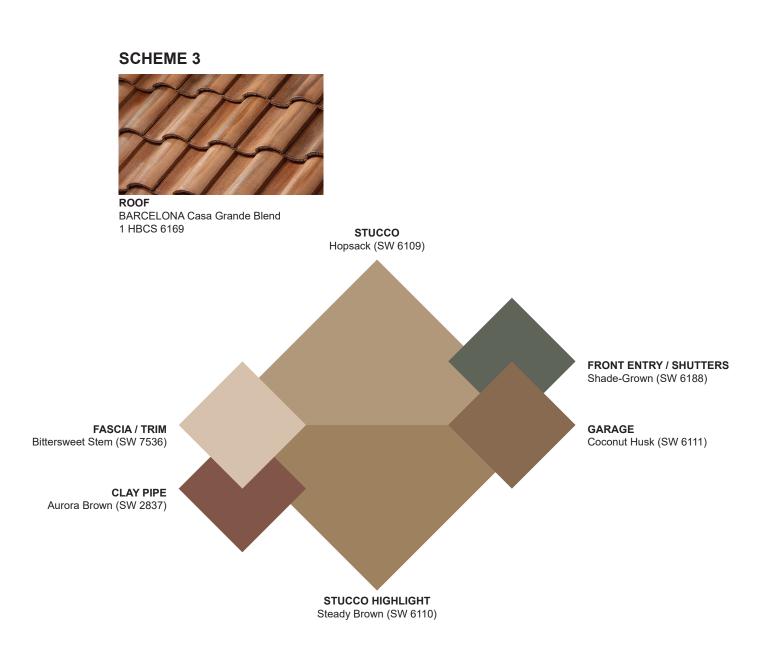
North Bay Division
Project # 3025999424
Rev. March 28, 2025



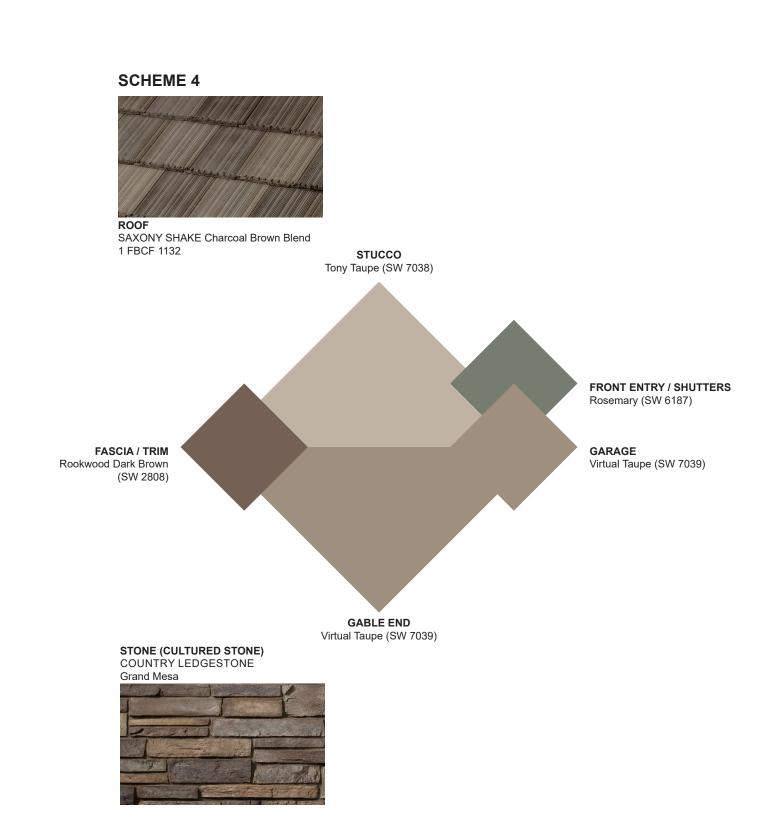
### **SPANISH ECLECTIC 'A' ELEVATIONS**

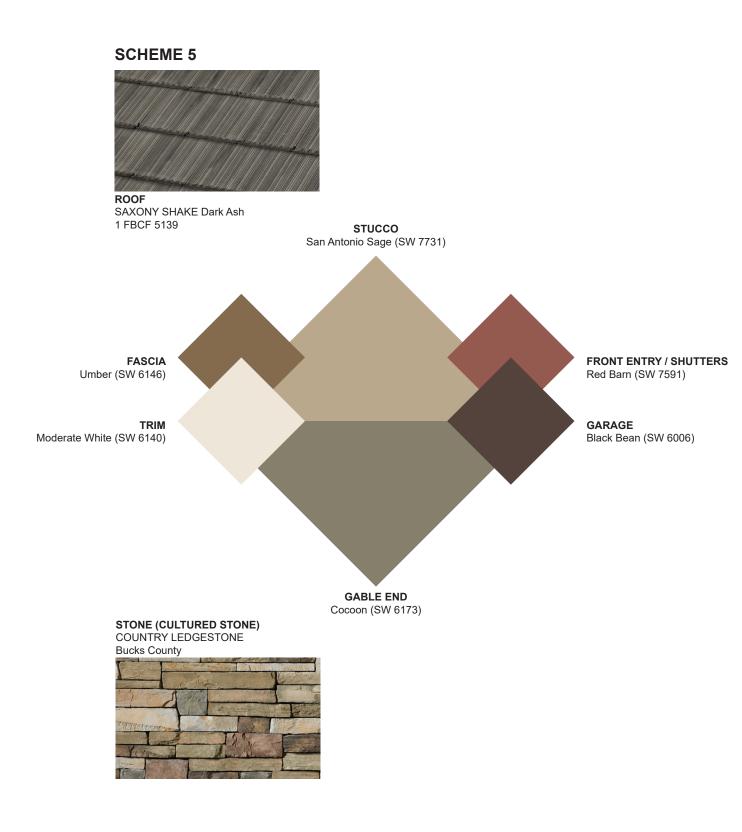


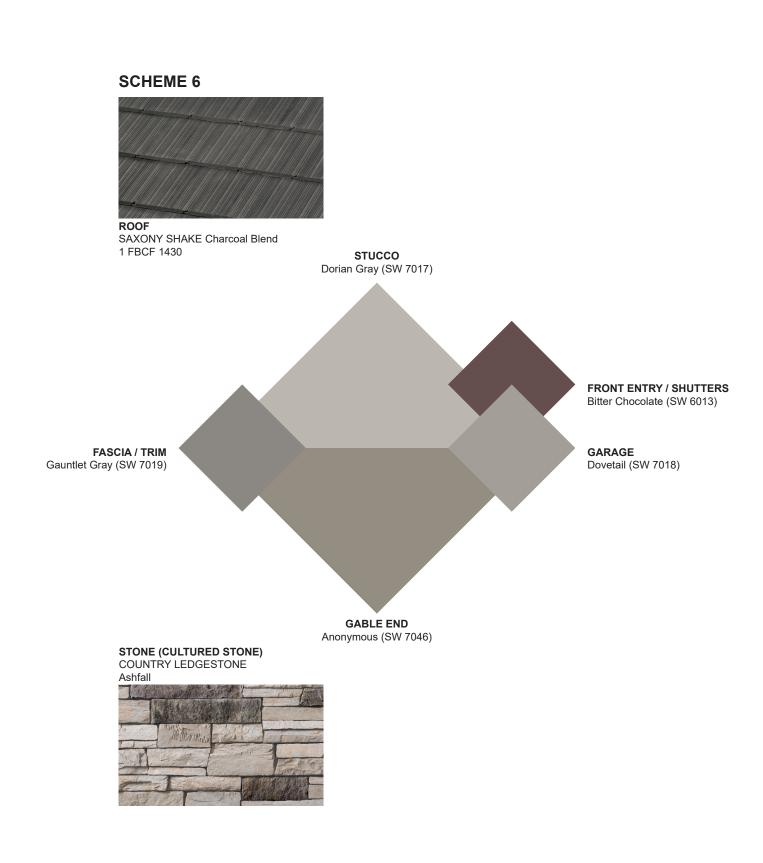




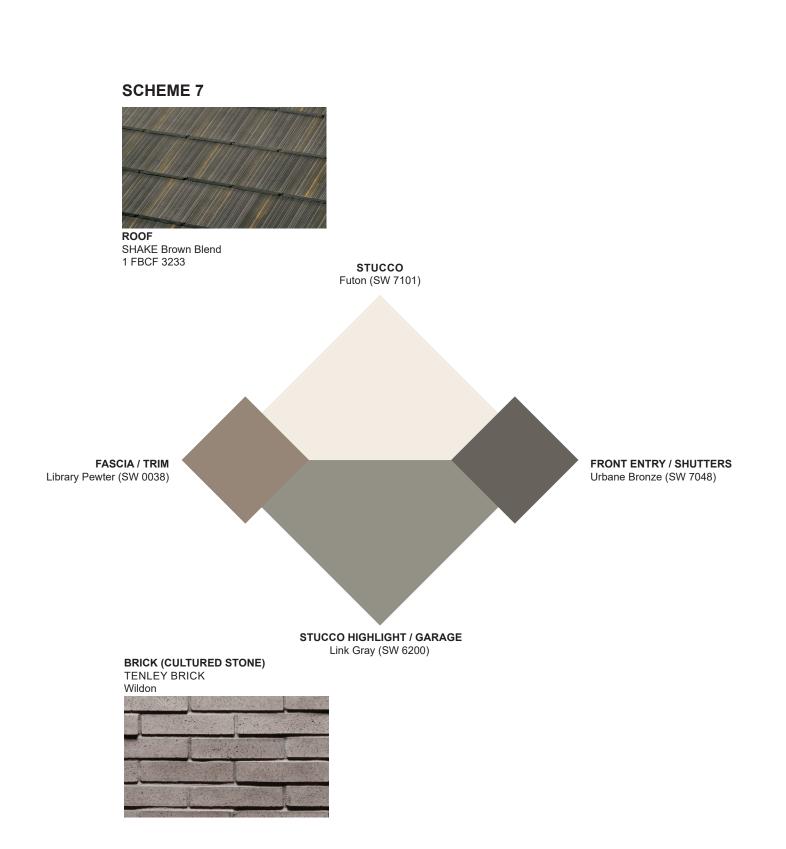
### **CRAFTSMAN 'B' ELEVATIONS**

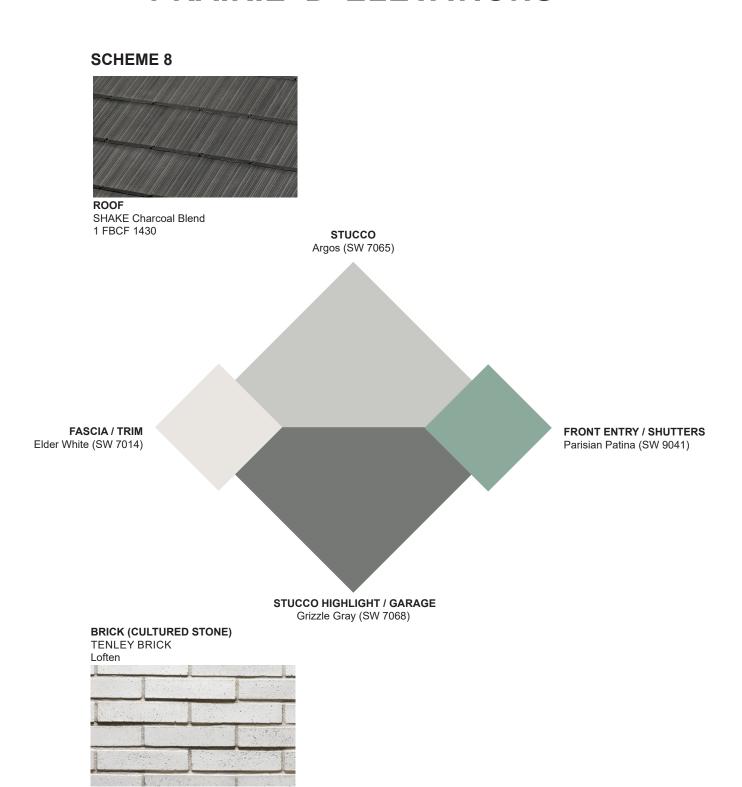


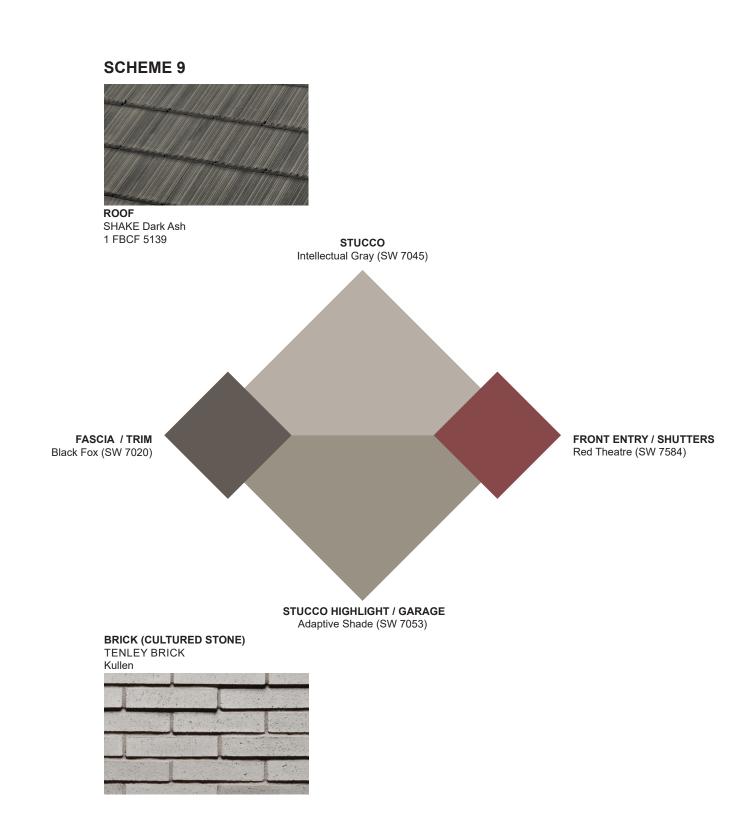




## PRAIRIE 'D' ELEVATIONS







### **East Cypress**

North Bay Division Project #3025999424 Rev. March 28, 2025



SPANISH ECLECTIC 'A' ELEVATIONS					
MATERIAL	MFR	SCHEME 1	SCHEME 2	SCHEME 3	
STUCCO	SHERWIN-WILLIAMS	Tamarind (SW 7538)	Crème (SW 7556)	Hopsack (SW 6109)	
STUCCO HIGHLIGHT	SHERWIN-WILLIAMS	Yearling (SW 7725)	Sandbar (SW 7547)	Steady Brown (SW 6110)	
FASCIA	SHERWIN-WILLIAMS	Casa Blanca (SW 7571)	Smokehouse (SW 7040)	Bittersweet Stem (SW 7536)	
TRIM	SHERWIN-WILLIAMS	Casa Blanca (SW 7571)	Tavern Taupe (SW 7508)	Bittersweet Stem (SW 7536)	
FRONT ENTRY / SHUTTERS	SHERWIN-WILLIAMS	Still Water (SW 6223)	Marooned (SW 6020)	Shade-Grown (SW 6188)	
CLAY PIPE	SHERWIN-WILLIAMS	Aurora Brown (SW 2837)	Aurora Brown (SW 2837)	Aurora Brown (SW 2837)	
GARAGE	SHERWIN-WILLIAMS	Black Bean (SW 6006)	Tony Taupe (SW 7038)	Coconut Husk (SW 6111)	
ROOF	BORAL ROOFING	1 HBCS 6464	1 HBCS 0431	1 HBCS 6169	
	BARCELONA	California Mission Blend	Apple Bark	Casa Grande Blend	
CDAFTOMAN (B) FI EVATIONS					

CRAFTSMAN 'B' ELEVATIONS					
MATERIAL	MFR	SCHEME 4	SCHEME 5	SCHEME 6	
STUCCO	SHERWIN-WILLIAMS	Tony Taupe (SW 7038)	San Antonio Sage (SW 7731)	Dorian Gray (SW 7017)	
GABLE END	SHERWIN-WILLIAMS	Virtual Taupe (SW 7039)	Cocoon (SW 6173)	Anonymous (SW 7046)	
FASCIA	SHERWIN-WILLIAMS	Rookwood Dark Brown (SW 2808)	Umber (SW 6146)	Gauntlet Gray (SW 7019)	
TRIM	SHERWIN-WILLIAMS	Rookwood Dark Brown (SW 2808)	Moderate White (SW 6140)	Gauntlet Gray (SW 7019)	
FRONT ENTRY / SHUTTERS	SHERWIN-WILLIAMS	Rosemary (SW 6187)	Red Barn (SW 7591)	Bitter Chocolate (SW 6013)	
GARAGE	SHERWIN-WILLIAMS	Virtual Taupe (SW 7039)	Black Bean (SW 6006)	Dovetail (SW 7018)	
ROOF	BORAL ROOFING	1 FBCF 1132	1 FBCF 5139	1 FBCF 1430	
	SAXONY SHAKE	Charcoal Brown Blend	Dark Ash	Charcoal Blend	
STONE	CULTURED STONE	COUNTRY LEDGESTONE Grand Mesa	COUNTRY LEDGESTONE Bucks County	COUNTRY LEDGESTONE Ashfall	

PRAIRIE 'D' ELEVATIONS				
MATERIAL	MFR	SCHEME 7	SCHEME 8	SCHEME 9
STUCCO	SHERWIN-WILLIAMS	Futon (SW 7101)	Argos (SW 7065)	Intellectual Gray (SW 7045)
STUCCO HIGHLIGHT / GARAGE	SHERWIN-WILLIAMS	Link Gray (SW 6200)	Grizzle Gray (SW 7068)	Adaptive Shade (SW 7053)
FASCIA / TRIM	SHERWIN-WILLIAMS	Library Pewter (SW 0038)	Elder White (SW 7014	Black Fox (SW 7020)
FRONT ENTRY / SHUTTERS	SHERWIN-WILLIAMS	Urbane Bronze (SW 7048)	Parisian Patina (SW 9041)	Red Theatre (SW 7584)
ROOF	BORAL ROOFING	1 FBCF 3233	1 FBCF 1430	1 FBCF 5139
	SHAKE	Brown Blend	Charcoal Blend	Dark Ash
BRICK	CULTURED STONE	TENLEY BRICK Wildon	TENLEY BRICK Loften	TENLEY BRICK Kullen

Created on 24\_1009. Colorboard taken from Sycamore Ranch 25-0328: Add brick to Craftsman schemes. Replace French Cottage 'D' schemes and create new Prairie 'D' schemes.

### PLANNING COMMISSION RESOLUTION NO. -25

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF OAKLEY MAKING FINDINGS AND APPROVING THE PROJECT KNOWN AS "CYPRESS RANCH (FORMERLY BURROUGHS) SUBDIVISION 9557 DESIGN REVIEW AND FINAL DEVELOPMENT PLAN (DR 25-01, FDP 25-01)", LOCATED NORTHEAST OF THE INTERSECTION OF EAST CYPRESS ROAD AND KNIGHTSEN AVENUE (APN: 032-081-025 & 032-081-026)

#### **FINDINGS**

WHEREAS, on January 6, 2025, KB Home North Bay ("Applicant") filed an application requesting Design Review and Final Development Plan approval for the project titled, "Cypress Ranch (Formerly Burroughs) Subdivision 9557 Design Review (DR 25-01, FDP 25-01)" This application consists of a request for Design Review (DR 25-01) approval of floor plans and elevations, colors and materials, front yard landscaping, and a Final Development Plan for 191 single-family detached homes located in the Cypress Ranch, formerly Burroughs (TM 9557) subdivision. The proposed homes include two single-story plans and five two-story plans ranging from 1,438 sf. to 2,566 sf. of livable area ("Project"). The site is zoned P-1 (Planned Unit Development) District and is located northeast of the intersection of East Cypress and Knightsen Avenue. APNs: 032-081-025 & 032-081-026; and

**WHEREAS,** the Applicant's Plans include house floorplans and architectural elevations, color and material schemes, conceptual front yard landscaping, and the final development plan ("Plans"); and

**WHEREAS,** on April 8, 2025 the project application was deemed complete per Government Code section 65920 et. seq; and

**WHEREAS,** the project site is designated Single Family Residential, Low/Medium Density (RLM) on the Oakley 2020 General Plan Land Use Map, and zoned P-1 (Planned Unit Development) District; and

**WHEREAS,** the proposal for house designs and other design elements of the subdivision falls within the scope of the original subdivision's California Environmental Quality Act (CEQA) analyses.

 Subdivision 9557 was analyzed through an Initial Study, and a Mitigated Negative Declaration (State Clearinghouse #2021040251) was prepared and dated April 9, 2021. The City Council adopted the Mitigated Negative Declaration with adoption of Resolution No. 58-21 for the Tentative Map Approval, and adoption of Ordinance 04-21 for a Rezone to P-1 District; and

WHEREAS, on or before April 25, 2025, the Notice of Public Hearing for the project was posted at Oakley City Hall located at 3231 Main Street, outside the gym at Delta

Vista Middle School located at 4901 Frank Hengel Way, outside the library at Freedom High School located at 1050 Neroly Road, and at the project site. The notice was also mailed out to all owners of property within a 500-foot radius of the project's boundaries, interested agencies, and to parties requesting such notice; and

WHEREAS, on May 6, 2025, the Planning Commission opened the public hearing and received a report from City Staff, oral and written testimony from the Applicant and public, and deliberated on the project. At the conclusion of its deliberations, the Planning Commission took a vote and adopted this resolution to approve the project, as conditioned and revised by the Planning Commission during its deliberations; and

WHEREAS, if any term, provision, or portion of these Findings or the application of these Findings to a particular situation is held by a court of competent jurisdiction to be invalid, void or unenforceable, the remaining provisions of these Findings, or their application to other actions related to the Project, shall continue in full force and effect unless amended or modified by the City; and

**WHEREAS**, these Findings are based on the City's General Plan, the City's Zoning and Subdivision Ordinances, Vesting Tentative Map 9557, the project's P-1 District, and the information submitted to the Planning Commission at its <u>May 6, 2025</u> meeting, both written and oral, including oral information provided by the Applicant, as reflected in the minutes of such meetings, together with the documents contained in the file for the Project (hereafter the "Record").

- A. Regarding the application requesting Design Review and Final Development Plan approval for "Cypress Ranch (Formerly Burroughs) Subdivision 9557 Design Review (DR 25-01)", the Planning Commission finds that:
  - 1. The proposed Design Review plans are substantially consistent with the applicable General Plan designation of Single Family Residential, Low/Medium Density (RLM) and the project's approved Vesting Tentative Map 9557; and
  - The proposed Residential Siting and Lot Design is consistent with the City of Oakley Residential Design Guidelines in that the Applicant has plotted the homes to provide substantial variation in the setbacks from front and rear property lines. The plan also includes a minimum of 20 percent single-story homes, consistent with requirements in the guidelines. Several of the home designs feature front porches that extend into the front yard setback, enhancing architectural variety and contributing to a more engaging streetscape; and
  - 3. The Architectural Character of the proposed single-family homes is consistent with the applicable City of Oakley Residential Design Guidelines in that each plan offers three distinct and regionally appropriate styles—Spanish (characterized by S-tile roofing and accent tiles), Craftsman (featuring board and batten gables with stone veneer), and Prairie (defined

by low-hipped roofs and brick veneer). Exterior materials wrap appropriately around building corners, and the two-story elevations incorporate horizontal banding, projecting first-floor elements, and articulated façades to reduce visual mass. Several models include prominent entry porches that enhance the streetscape. Roof forms and tile types vary by style, and each elevation uses a limited palette of muted, earth-tone colors with no more than three cladding materials, as encouraged by the guidelines. Façade and upperstory windows include divided-lite patterns to further reinforce architectural character; and

- B. Regarding the application requesting Final Development Plan approval for "Cypress Ranch (Formerly Burroughs) Subdivision 9557 FDP 25-01, the Planning Commission finds that:
  - 1. The applicant intends to start construction within two years. The amended Final Development Plan is substantially consistent with the original approval as well as the City's General Plan. The proposed development is found to be in harmony with surrounding development, as it's visually compatible and environmental impacts have been analyzed, and mitigation has been required through the CEQA process. The proposed Final Development Plan justifies the deviations from the typical residential development standards in the Oakley Municipal Code as this large-scale development requires flexibility to avoid a monotonous appearance.
- C. The Project complies with Measure J Growth Management requirements.

**BE IT FURTHER RESOLVED THAT,** on the basis of the above Findings and the Record, the Planning Commission approves the Applicant's request for approval of the project titled, "Cypress Ranch (Formerly Burroughs) Subdivision 9557 Design Review and Final Development Plan (DR 25-01, FDP 25-01)" subject to the following Conditions of Approval:

### **Conditions of Approval**

Applicant shall comply with the requirements of the Oakley Municipal Code. Any exceptions must be stipulated in these Conditions of Approval. Conditions of Approval are based on the plans date stamped received by the Planning Division on <u>April 8, 2025</u> and made a part of the Planning Commission's meeting packet for <u>May 6, 2025</u>, as well as additional information acquired since that time and made a part of the project file.

THE FOLLOWING CONDITIONS OF APPROVAL SHALL BE SATISFIED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT UNLESS OTHERWISE NOTED (BOLD CONDITIONS ADDED OR AMENDED AT PUBLIC HEARING):

### **Planning Department Conditions**

### General:

- 1. This Design Review is approved, as shown on the plans, date stamped by the Planning Department on <u>April 8, 2025</u>, and as conditioned herein.
- 2. This Design Review shall be effectuated within a period of two years from the adoption date of this resolution through issuance of a building permit related to the homes approved with this project. An extension of time may be granted by the Planning Commission upon written request by the applicant filed with the Planning Division within the effective period of this original approval.
- 3. All construction drawings and plot plans submitted for plan check shall be in substantial compliance with the plans presented to and approved by the Planning Commission on May 6, 2025, and as conditioned herein.
- 4. All conditions of approval shall be satisfied by the owner/developer. All costs associated with compliance with the conditions shall be at the owner/developer's expense.
- 5. Noise generating construction activities, including such things as power generators, shall be limited to the hours of 7:30 a.m. to 5:30 p.m. Monday through Friday, and shall be prohibited on City, State and Federal Holidays. The restrictions on allowed working days and times may be modified on prior written approval by the Community Development Director.
- 6. Should archaeological materials be uncovered during grading, trenching or other on- site excavation(s), earthwork within 30 yards of these materials shall be stopped until a professional archaeologist who is certified by the Society of Professional Archaeology (SOPA) has had an opportunity to evaluate the significance of the find and suggest appropriate mitigation(s), if deemed necessary.
- 7. The Applicant shall indemnify, defend, and hold harmless the City of Oakley, the City Approving Authorities, and the officers, agents, and employees of the City from any and all claims, damages and liability (including, but not limited to, damages, attorney fees, expenses of litigation, costs of court).
- 8. Any model home complex shall have a copy of the City of Oakley's General Plan Land Use Map posted within the sales office or included with the informational material provided to prospective home buyers.

### **Development Regulations:**

9. Project is zoned P-1 District and shall adhere to the setbacks shown on the Final Development Plan.

### **Referenced Resolution and Conditions of Approval:**

10. All Conditions of Approval of City Council Resolution No. 58-21, approving the project's Vesting Tentative Map 9557, shall remain effective unless explicitly superseded either by a specific condition of approval or obvious design by this Resolution. The Community Development Director shall have final say in any disputes regarding whether a specific condition remains in effect.

#### **Architectural Details:**

- 11. The Applicant shall submit plans that show exterior lighting that are specific to each of the three architectural styles, subject to the approval of the Community Development Director.
- 12. All plan/elevation combinations that show any materials other than stucco on a column or front facade, where the side elevation is not visible on the plans, shall have that material wrap all sides of the column or around the front facade to the next change in plane. Where wraps are completely visible on the plans, they should continue to either the change in plane, or to the fence line or point where the second story begins, as shown on the approved plans.
- 13. The Applicant shall submit plans that show additional brick veneer on the Prairie Elevation of Plan 2016, subject to the approval of the Community Development Director.
- 14. All trim and shutters, etc. shall be painted on all sides in the applicable color. Exceptions may be made for stucco over foam trim where a clean line may not be attainable where the trim meets the house, subject to the review and approval of the Community Development Director.
- 15. The Applicant shall submit plans that show that the exterior of street facing fences shall receive two (2) coats semi-transparent stain and sealer.
- 16. Plot plans shall be submitted with as close as possible to an equal number of architectural types for each plan. In the event any specific architectural type is being proposed too often, or excluded from the mix, Staff may postpone issuing building permits until it can be shown that a more even mix of all types, subject to the total numbers represented by each plan, will exist at build out without over concentration or exclusion in any specific area.

### Landscaping:

17. A landscaping and irrigation plan for all front yard, right-of-way, parks, open space, and trail landscaping shall conform to the Oakley Water Efficient Landscape Ordinance ("WELO"), and the Guidelines for Implementation of the City of Oakley Water Efficient Landscape Ordinance and shall be installed prior to final occupancy. The plan shall be prepared by a licensed landscape architect and shall be certified to be in compliance with the City's Water Conservation Ordinance by including the following signed statement on the

- cover sheet or same sheet as the WELO calculations in a visible text box: "These plans are certified to conform to the Oakley Water Efficiency Landscape Ordinance."
- 18. California native drought tolerant plants shall be used as much as possible. All trees shall be a mix of 15-gallon and 24-inch box; all shrubs shall be a minimum five-gallon size, except as otherwise noted.
- 19. All landscaped areas not covered by shrubs or groundcover shall be covered with bark or acceptable alternative as reviewed and approved by the Community Development Director. On slopes greater than 3 to 1, the Applicant shall use an alternative to bark per the review and approval of the Community Development Director. Areas covered with bark shall use a weed barrier.
- 20. The Applicant shall maintain all private landscaping until occupancy.

### **Subdivision Disclosures:**

21. The Applicant shall draft a statement to be recorded at the County Recorder's Office for each parcel to notify future owners of the parcels that second driveways to access side yards opposite the garage shall not be permitted, and if installed, may be subject to code enforcement action by the City of Oakley. The specific language shall be submitted to the Planning Division for review and approval prior to recording with the County Recorder.

### **Energy Efficiency:**

- 22. Air conditioning condenser units shall be located to take advantage of natural shade. Condensers should not be placed on the west or south elevation of a home, unless shade is provided. The location of the condenser shall be added to all plot plans for review and approval of the Community Development Director.
- 23. Design and site units so as to take advantage of natural heating and cooling, sun and wind exposure, and solar energy opportunities.

### **Waste Management Plan:**

24. The Applicant shall submit a Waste Management Plan that complies with the City of Oakley Construction and Demolition Debris Recycling Ordinance.

### **Building Division Conditions**

25. Plans shall meet the currently adopted Uniform Codes as well as the newest T-24 Energy requirements from the State of California Energy Commission. To confirm the most recent adopted codes please contact the Building Division at (925) 625-7005.

26. Prior to requesting a Certificate of Occupancy from the Building Division, all Conditions of Approval required for occupancy must be completed. When the Public Works Division and the Planning Division place Conditions of Approval on the project, those divisions will sign off on the project prior to the request for a Building division final inspection. Similarly, if the Health Department and/or Fire Department reviewed and approved the original plans, those departments must sign off on the project prior to the request for a final inspection by the Building Division.

### **Advisory Notes**

The following Advisory Notes are provided to the Applicant as a courtesy but are not a part of the conditions of approval. Advisory Notes are provided for the purpose of informing the Applicant of additional ordinance requirements that must be met in order to proceed with development.

- A. The Applicant/owner should be aware of the expiration dates and renewing requirements prior to requesting building or grading permits.
- B. The project will require a grading permit pursuant to the Ordinance Code.
- C. Applicant shall comply with the requirements of Ironhouse Sanitary District.
- D. The Applicant shall comply with the requirements of the Diablo Water District.
- E. Comply with the requirements of the East Contra Costa Fire Protection District.
- F. The applicant shall comply with the requirements of Contra Costa Environmental Health if subject to applicable permits.
- G. Comply with the requirements of the Building Inspection Division. Building permits are required prior to the construction of most structures.
- H. This project may be subject to the requirements of the Department of Fish and Game. It is the Applicant's responsibility to notify the Department of Fish and Game, P.O. Box 47, Yountville, California 94599, of any proposed construction within this development that may affect any fish and wildlife resources, per the Fish and Game Code.
- I. This project may be subject to the requirements of the Army Corps of Engineers. It is the Applicant's responsibility to notify the appropriate district of the Corps of Engineers to determine if a permit is required, and if it can be obtained.
- J. The Applicant shall obtain an encroachment permit for construction within existing City rights of way.

**PASSED AND ADOPTED** by the Planning Commission of the City of Oakley at a meeting held on the May 6, 2025, by the following vote:

moduling floid off the indy of 2020, by the following vote.
AYES:
NOES:
ABSENT:

ABSTENTIONS:			
		APPROVED:	
ATTEST:		Diego Verduzco, Chair	Date
Kim Snodgrass, City Clerk	Date		



Approved and

Forwarded to the Planning Commission

**DATE:** May 6, 2025

TO: Joshua McMurray, City Manager

FROM: Ken Strelo, Community Development Director

**SUBJECT:** Adopt a Resolution Appointing a Planning Commissioner

Representative and Alternate to the TRANSPLAN Committee for a

Two-Year Term

### Summary and Background

The TRANSPLAN Committee coordinates the regional transportation interests of East Contra Costa County communities, including the Cities of Antioch, Brentwood, Oakley and Pittsburg, and Contra Costa County, and unincorporated communities of Bethel Island, Byron, Discovery Bay and Knightsen. Elected officials and Planning Commissioners sit on the committee. On January 17, 2023, the Planning Commission adopted Resolution 3-23 appointing Commissioners Price and Verduzco as the Representative and Alternate, respectively. Those appointments were for a two-year term. Since the term has officially expired, the Planning Commission is required to re-appoint a representative and alternate for a new two-year term to serve on the TRANSPLAN Committee.

Appointments to the TRANSPLAN Committee are for two years. Each participating city appoints one City Councilmember and one Planning Commissioner to the Committee. The appointees (TRANSPLAN Member) must remain a local elected official or Planning Commissioner to serve on the TRANSPLAN Committee. The TRANSPLAN Administrative Procedures allows for alternate representatives to be appointed as both the City Council and Planning Commissioner representatives. It would be appropriate for the Planning Commissioner to appoint an alternate representative if for any reason the TRANSPLAN Member is no longer a Planning Commissioner so that their alternate may serve in their place until a successor is named and qualified.

TRANSPLAN Committee meetings are currently held in-person the second Thursday of each month beginning at 6:30 p.m. in the Board Room of the Tri-Delta Transit building, 801 Wilbur Avenue in Antioch, CA.

### Planning Commissioner Terms

The Planning Commission may want to consider the remaining terms of the existing Planning Commissioners before appointing a representative and alternate. The Planning Commissioners' remaining terms are as follows:





- Diego Verduzco, Chair. Term Expires: October 11, 2025
- Leonard Price, Vice Chair. Term Expires: October 11, 2025
- Oleksii Chuiko, Commissioner. Term Expires: October 11, 2025
- Kerry Harvey, Commissioner. Term Expires: February 27, 2029
- Yared Oliveros, Commissioner. Term Expires: February 27, 2029

### Consistency with Oakley Strategic Plan 27+

Engagement with community partners, such as serving as a TRANSPLAN Member, is consistent with the Community and Collaborative Partnership Goal in the Oakley Strategic Plan 27+.

### **Fiscal Impact**

There is no fiscal impact to the City's General Fund.

### Staff Recommendation

Staff recommends the Planning Commission adopt a Resolution appointing a Planning Commissioner Representative and Alternate to the TRANSPLAN Committee for a two-year term.

### **Attachments**

1. Proposed Resolution

### PLANNING COMMISSION RESOLUTION NO. -25

# A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF OAKLEY APPOINTING A PLANNING COMMISSIONER REPRESENTATIVE AND ALTERNATE TO THE TRANSPLAN COMMITTEE FOR A TWO-YEAR TERM

**WHEREAS**, the TRANSPLAN Committee coordinates the regional transportation interests of East Contra Costa County communities, including the Cities of Antioch, Brentwood, Oakley and Pittsburg, and Contra Costa County, and unincorporated communities of Bethel Island, Byron, Discovery Bay and Knightsen; and

**WHEREAS**, each participating city appoints one City Councilmember and one Planning Commissioner to the TRANSPLAN Committee; and

**WHEREAS,** the TRANSPLAN Administrative Procedures allow for alternates to be appointed for both the City Council and Planning Commissioner representatives; and

**WHEREAS**, the term for the appointed Planning Commissioner Representative and Alternate shall be for two years.

**NOW, THEREFORE, BE IT RESOLVED THAT,** that the Planning Commission of the City of Oakley hereby appoints the following Planning Commissioners to serve a two-year term on the TRANSPLAN Committee as Oakley's Planning Commissioner Representative and Alternate:

- Representative:
- Alternate:

**PASSED AND ADOPTED** by the City Council of the City of Oakley at a meeting held on this 6th day of May 2025 by the following vote:

Kim Snodgrass, City Clerk	Date	_	
ATTEST:			
		Diego Verduzco, Chair	Date
		APPROVED:	
NOES: ABSENT: ABSTENTIONS:			
AYES:			