

DEVELOPMENT SERVICES DIRECTOR PUBLIC HEARING      REGULAR MEETING AGENDA

**Wednesday, December 14, 2022, 4:00 P.M.**

Tracy City Hall, 333 Civic Center Plaza, Tracy

Web Site: [www.cityoftracy.org](http://www.cityoftracy.org)

**THIS MEETING WILL BE OPEN FOR REMOTE PARTICIPATION PURSUANT TO  
GOVERNMENT CODE SECTION 54953(e).**

**MEMBERS OF THE PUBLIC MAY PARTICIPATE REMOTELY IN THE MEETING VIA THE  
FOLLOWING METHOD:**

**Remote Public Comment:**

All interested persons are invited to participate by joining the meeting via Microsoft Teams by clicking the following link:

[Click here to join the meeting](#)

Meeting ID: 281 304 228 923

Passcode: FyfMF9

You may view the Public Hearing Login information at  
<https://www.cityoftracy.org/government/public-notices> or by calling the Microsoft Teams teleconference line at **(209) 425-4338** Conference ID: **206 290 652#** to submit statements orally during the meeting; or submit comments in writing before the meeting by sending written statements to [publiccomment@cityoftracy.org](mailto:publiccomment@cityoftracy.org).

Should you decide to challenge the decision of the Development Services Director, you may be limited to those issues that were raised for consideration at the hearing.

Information concerning this matter may be obtained on the City's website:  
<https://www.cityoftracy.org/our-city/departments/planning/director-hearings>.

**MEETING AGENDA**

**1. NEW BUSINESS**

1.A **P22-0010: Renewal of the Interim Management Plan for the aggregate surface mine at the southwest corner of Tracy Boulevard and Linne Road; the Applicant is Teichert Materials.** – Public hearing to consider (1) approving a five-year extension to the existing Interim Management Plan for the Pereira Mine at the southwest corner of S. Tracy Boulevard and W. Linne Road and (2) determining the review and approval of an Interim Management Plan is not considered a project for the purposes of CEQA pursuant to Public Resources Code Section 2770(H)(1) as contained in the Surface Mining and Reclamation Act (SMARA). The applicant is Teichert Materials; and the property owner is Triangle Properties; Application Number P22-0010.

1.B **D22-0039: The applicant is Heirloom Carbon Technologies, Inc. and Tracy Renewable Energy, LLC. Property owner is the City of Tracy –**

Public hearing to consider: (1) determining that an Addendum to the Tracy Desalination and Green Energy Project Initial Study/ Mitigated Negative Declaration is the appropriate documentation to comply with the requirements of the California Environmental Quality Act (CEQA), pursuant to CEQA Guidelines Sections 15162 and 15164, for the proposed construction of a facility to remove carbon dioxide from the atmosphere consistent with the State's emission reduction goals, including an approximately 12,750 square foot equipment enclosure, an approximately 25,600 square foot open-air equipment yard, an approximately 1,500 square foot office trailer, parking area and landscaping improvements, located at 4750 Holly Drive, Assessor's Parcel Number 212-160-11, Application Number D22-0039 (hereinafter "Project"), and (2) approving a Development Review Permit to construct the Project.

2. ADJOURNMENT

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AGENDA ITEM 1.A

REQUEST

**PUBLIC HEARING TO CONSIDER (1) APPROVING A FIVE-YEAR EXTENSION TO THE EXISTING INTERIM MANAGEMENT PLAN FOR THE PEREIRA MINE AT THE SOUTHWEST CORNER OF S. TRACY BOULEVARD AND W. LINNE ROAD AND (2) DETERMINING THE REVIEW AND APPROVAL OF AN INTERIM MANAGEMENT PLAN IS NOT CONSIDERED A PROJECT FOR THE PURPOSES OF CEQA PURSUANT TO PUBLIC RESOURCES CODE SECTION 2770(h)(1) AS CONTAINED IN THE SURFACE MINING AND RECLAMATION ACT (SMARA). APPLICANT IS TEICHERT MATERIALS AND PROPERTY OWNER IS TRIANGLE PROPERTIES, APPLICATION NUMBER P22-0010.**

DISCUSSION

The project site is a 100-acre parcel located at the southwest corner of S. Tracy Boulevard and W. Linne Road. The project site is located immediately south of Linne Road and the Union Pacific Railroad tracks and immediately west of South Tracy Boulevard, adjacent to an area with mixed residential and industrial uses. Approximately 85 acres of the site has been permitted as an aggregate pit mine, with approximately 68 acres disturbed by mining. The operation established by the reclamation plan allowed for the extraction of alluvial sand and gravel from the site, with current activities consisting of reclamation, monitoring and exploratory testing as necessary.

On January 24, 2001, the Planning Commission approved Surface Mining Permit and Reclamation Plan (Application No. 10-00-CUP). Specifically, the Conditional Use Permit established a surface mining operation to extract sand and gravel (approximately 8 million cubic yards), on approximately 85 acres of a 100 acre site located at the southwest corner of Tracy Boulevard and Linne Road. The project also included approval of a reclamation plan, and approval of a Mitigated Negative Declaration. The purpose of a reclamation plan is to ensure that the disturbed site will be reclaimed and not left in a state of degradation or result in adverse effects from the surface mining operations. In this case the reclamation plan called for the end use of the site is to be used for grazing/husbandry, with the site graded with gentle slopes ranging from 2:1 to 3:1 slopes.

On January 1, 2010, the Pereria Mine became Idle and subsequently the operator, Teichert Aggregates provided the City of Tracy with an Interim Management Plan (IMP) on March 16, 2011. Pursuant to Public Resources Code Section 2727.1, "idle" means that an operator of a surface mining operation has curtailed production at the surface mining operation, with the intent to resume the surface mining operation at a future date, for a period of one year or more by more than 90 percent of its maximum production within any of the last five years during which an interim management plan has not been approved. On August 23, 2011, the City of Tracy certified complete the first interim management plan (IMP) for the site in response to the mine becoming idle in January 2011. In accordance with City practices, the IMP was referred to the California Department of Conservation – Office of Mine Reclamation for review and comment. On September 20, 2011, the Office of Mine Reclamation (OMR) commented back to the

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City, that the IMP contained sufficient information describing the idle site and met the requirements of the Surface Mining and Reclamation Act (SMARA), with no additional comments.

In the September 20, 2011 response to the City of Tracy from OMR, it was noted that an approved IMP may remain in effect for a period not to exceed five years. Once the five year period has ended, the lead agency may: (1) renew the IMP for up to a five year period, if the mine operator has complied fully with the IMP; or (2) require the mine operation to commence reclamation in accordance with the approved reclamation plan, and it was further noted that the IMP would need to be renewed in 2016 if the mine remains idle. On July 27, 2016, Teichert Aggregates submitted a request to renew the IMP for an additional five-year period, pursuant to Public Resources Code Section PRC § 2770(h)(2)(A). On August 2, 2016, the City of Tracy submitted the IMP renewal to the Office of Mine Reclamation (OMR) for review and comments. This application represents the first renewal of the IMP. Per PRC Section §Section 2770(h)(2)(A), an IMP may be renewed for an additional five years. If found necessary, a mine may be under an IMP for up to 15 consecutive years if found necessary (initial IMP + 2 subsequent 5 year renewals). On July 28, 2021, an application for the third and final interim management plan renewal was received by the City of Tracy and was subsequently referred to the California Department of Conservation, Division of Mine Reclamation (DMR) for review and comment. On November 9, 2022, DMR noted to the City of Tracy, that DMR has chosen not to provide comments. Based on the "no comment" response from DMR, the City of Tracy may move forward and approve the 5 year extension of the interim management plan, with the IMP now expiring on October 25, 2027.

The project site is zoned M-1 Light Industrial and has a General Plan designation of Industrial. No changes are proposed to the existing use of the site, and the renewal of the interim management plan will allow the site to remain idle until such time as the operator (Teichert Materials) elects to resume mining and or initiates reclamation of the site. It should be noted that the entire northern boundary of the property along Linne Road has been developed with a 12-foot high earth berm that has been planted with both shrubs and London Plan trees that established both a visual and noise berm along Linne Road. The Tracy Municipal Airport, along with a parcel developed as the airport drainage sump area/pit, is located to the south and other light industrial uses are located to the west.

CEQA Documentation

The review and approval of an Interim Management Plan (IMP) is not considered a project for the purposes of the California Environmental Quality Act (CEQA) pursuant to Public Resources Code §2770(h)(1) as contained in the Surface Mining and Reclamation Act (SMARA). No further environmental assessment is necessary.

RECOMMENDATION

Staff recommends that the Development Services Director (1) approves a second extension to the existing Interim Management Plan (IMP) for an additional five year (5)

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period, with the IMP to expire on October 25, 2027, at which time the operator must resume mining at full production or immediately commence reclamation of the site, located at the southwest corner of S. Tracy Boulevard and W. Linne Road and (2) determine that the review and approval of an Interim Management Plan (IMP) is not considered a project for the purposes of the California Environmental Quality Act (CEQA) pursuant to Public Resources Code §2770(h)(1) as contained in the Surface Mining and Reclamation Act (SMARA). No further environmental assessment is necessary, based on the findings contained in the Director's Determination dated December 14, 2022 (Attachment B).

Prepared by: Alan Bell, Senior Planner  
Nash Gonzalez, Contract Planner

Approved by: Bill Dean, Assistant Development Services Director

ATTACHMENTS

- A. Interim Management Plan, July 22, 2021 contains Site Plan
- B: Development Services Director Determination  
Exhibit 1 – Conditions of Approval

7/28/21, email from Jason Smith  
j.smith@teichert.com

**Attachment A**

Quality Assurance  
8609 Jackson Road, Bldg #101  
Sacramento, CA 95826-9713  
P.O. Box 15002  
Sacramento, CA 95851-0002  
(916) 386-6974 • FAX (916) 386-8455



**TEICHERT MATERIALS**

July 22<sup>nd</sup>, 2021

RECEIVED

JUL 28 2021

Nash Gonzalez  
Contract Planner  
City of Tracy Development Services Department  
333 Civic Center Plaza  
Tracy, CA 95376

**CITY OF TRACY**  
Development Services

**RE: Teichert Pereira Interim Management Plan**

Dear Nash,

The Teichert Materials Pereira Mine Site (CA Mine ID 91-39-0007) originally received approval for an Interim Management Plan (IMP) from the City of Tracy August 23<sup>rd</sup>, 2011. In addition, an extension of the IMP was approved in 2016 for an additional 5 years. Since that time, the Pereira site has remained idle, and plans to remain idle for the near future. However, the plan remains in place to resume mining activities as market and economic conditions allow.

As a result, we are formally requesting to receive approval for the second 5-year IMP extension allowed under SMARA section 2770(h)(2)(A).

Please find enclosed IMP for your review and subsequent action. In attempt to standardize our IMP process across many mine sites and jurisdictions, we have created a more detailed IMP template. Our submission includes this form, a site map and site photographs.

If you have any questions regarding this matter, please contact me at 916-484-3317.

Best regards,

Jason Smith  
Teichert Materials  
ARD Project Manager

Enc:



## INTERIM MANAGEMENT PLAN

Teichert Materials  
Pereira Mine Site

July 22, 2021

### PROPERTY INFORMATION:

- **CA Mine ID:**  
#91-39-0007
- **Lead Agency:**  
City of Tracy
- **Mining Permit Number/Approval Date:**  
10-00-CUP Approved January 24, 2001
- **APNs:**  
253-110-06,07,08,09,14

**Total Permitted Mining Acres:**  
85 acres

### MINING OPERATOR(S):

Teichert Aggregates  
Attn: Jason Smith  
P.O. Box 15002  
Sacramento CA, 95851  
Telephone: (916) 484-3317

### DESIGNATED AGENT(S):

Same as above

### LAND OWNER(S):

- Triangle Properties  
3500 American River Dr  
Sacramento, CA 95864

### RECLAMATION PLAN STATUS:

- Reclamation in progress.

### DATE MINE BECAME IDLE:

- **Original Idle Date:**  
January 1, 2010
- **Date Mining is Expected to Resume:**

To be determined in the future based on economic and market conditions.

#### **MAXIMUM PRODUCTION:**

- **Production During Last 5 Active Years:**
  - 2005; 1,196,560 Tons \*
  - 2006; 1,157,864 Tons
  - 2007; 1,062,974 Tons
  - 2008; 591,586 Tons
  - 2009; 29,609 Tons

(\*highest year of production)

#### **FINANCIAL ASSURANCES:**

- **Current Financial Assurance Amount (Bond):**  
\$1,481,303.00 (Approved August 2020)
- **Proposed Change to FACE:**  
\$1,533,120 (Approved May 2021)

#### **MANAGEMENT PLAN**

- **SITE DESCRIPTION: (APPENDIX A)**
  - **Size (acres disturbed):**  
Current disturbed acres: 68
  - **Type of mining and product:**  
Alluvial Sand and Gravel
  - **Setting:**  
Urban/Rural
  - **Reason for change in operation:**  
Operations has become idle due to market and economic conditions.
  - **Equipment or facilities remaining on site:**  
Conveyors tunnel, and access roads associated with site infrastructure.
  - **Mining activity & operations while idle:**  
Current activities include: reclamation, monitoring and exploratory testing as necessary.
- **EROSION CONTROL PLAN:**
  - The entire site will be monitored as needed.
  - Erosion of rills greater in cross section than 5 square inches and exceeding 5 feet in length will be arrested by placement of graded rock interceptors or straw bales to show concentrated runoff within 1 week following any rainfall event.
- **REVEGETATION PLAN:**
  - Should revegetation be selected as an option to stabilize the site, the operator may choose to apply a seed mix (see example below) via broadcast or hydro-seeding by October 31<sup>st</sup> of each year.

<u>Species</u>		<u>Seeding Rate</u>
Soft-chess brome	<i>Bromus hordeaceus</i>	20 lbs/acre
Zorro fescue	<i>Festuca myuros</i>	8 lbs/acre
Small fescue	<i>Festuca micostachys</i>	8 lbs/acre
Wild oat	<i>Avena fatua</i>	6 lbs/acre
Rose clover	<i>Trifolium hirtum</i>	4 lbs/acre
Crimson Clover	<i>Trifolium incarnatum</i>	2 lbs/acre
<b>Total</b>		<b>48 lbs/acre</b>

- **PUBLIC SAFETY:**
  - The entire site is fenced. Access to the site is controlled by locked gates. There is no pedestrian access. No trespassing signs are also posted.
- **MAINTENANCE AND MONITORING:**
  - The site will be routinely visited and monitored throughout the duration of its interim management status.
- **SITE MAP:**

Please see attached map ([Appendix A](#)).
- **SITE PHOTOS:**

Please see attached photos ([Appendix B](#)).

## **APPENDIX A**

### **TEICHERT MATERIALS**

### **INTERIM MANAGEMENT PLAN**

### **PEREIRA: SITE MAP**

**SMARA Annual  
Reporting Year 2020**

**Teichert Aggregates  
Pereira Property  
San Joaquin County, California  
California Mine ID: 91-39-0007**

Total Disturbed Area  
(Approximate)  
± 68 Acres

2020 Disturbed Area  
0 Acres

**Reclamation:**

Reclamation In Progress  
(Approximate)

Reclamation Construction  
& Revegetation Completed,  
Monitoring In Progress  
(Approximate)

Reclamation Completed:  
Signed Off  
0 Acres

Property Boundary  
(Approximate)

**Note:** No mining occurred in 2020

**Financial Assurance Amount:**  
\$ 1,533,120.00

*Aerial Photography Provided by  
ESRI Business & Affiliates  
(Maxar - October 22, 2020)*



0 150 300 600 Feet

**\*\* Boundary and area features were  
hand drawn. No liability is assumed  
for the accuracy of the data shown.**

*C. Compte Re' by T. Yee 6/22/2021 PER\_SMARA.aspx*



## **APPENDIX B**

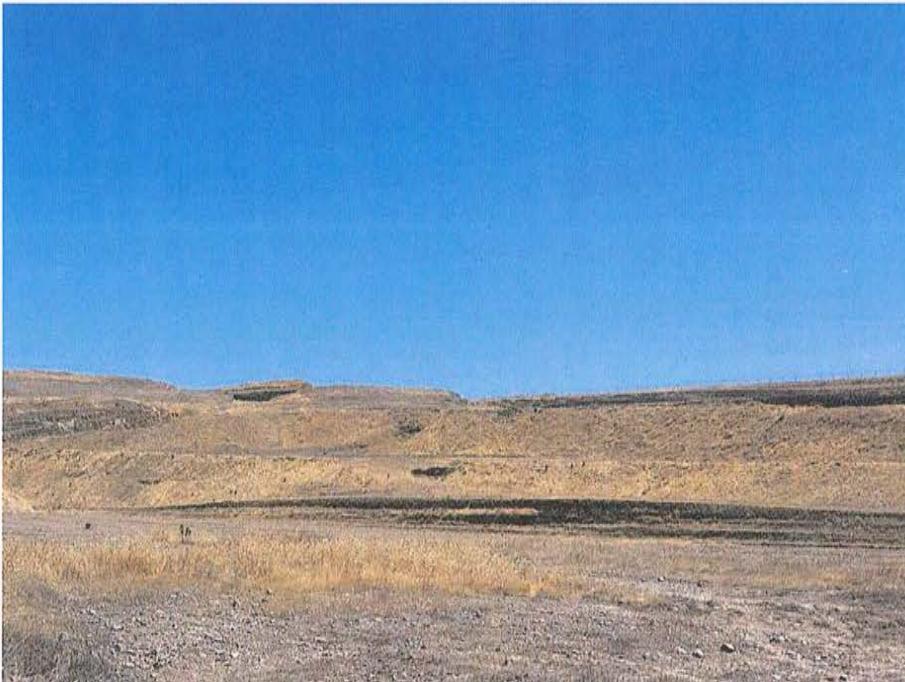
### **TEICHERT MATERIALS**

### **INTERIM MANAGEMENT PLAN**

### **PEREIRA: SITE PHOTOGRAPHS**

**PHOTOS TAKEN: July 19<sup>th</sup>, 2021**

## Stable Slopes



## Stable Slopes (cont.)



## Pit Floor and Slopes



**CITY OF TRACY****DETERMINATION OF  
THE DEVELOPMENT SERVICES DEPARTMENT**

Application Number P22-0010

A determination of the Development Services Department Director (1) approving an Extension to the Interim Management Plan (IMP) to continue to allow the Pereira Mine to remain idle for another 5 year period at southwest corner of S. Tracy Boulevard and W. Linne Road and (2) the review and approval of an interim management plan is not considered a project for the purposes of CEQA pursuant to the Public Resources Code PRC §2770(h) (1). The applicant is Teichert Materials, and property owner is Triangle Properties.

Staff has reviewed the application and determined that the following City and State regulations apply:

1. Light Industrial Zone (TMC Chapter 10.08, Article 20)
2. Surface Mining and Reclamation (TMC Chapter 10.08.4700, Article 37)
3. Public Resources Code Section 2770(h)(2)(A), SMARA statutes

The review and approval of an Interim Management Plan (IMP) is not considered a project for the purposes of the California Environmental Quality Act (CEQA) pursuant to Public Resources Code §2770(h)(1) as contained in the Surface Mining and Reclamation Act (SMARA). No further environmental assessment is necessary.

THE DEVELOPMENT SERVICES DEPARTMENT DIRECTOR, AFTER CONSIDERING ALL OF THE EVIDENCE PRESENTED, HEREBY (1) DETERMINES THE EXTENSION OF THE EXISTING INTERIM MANAGEMENT PLAN IS NOT A PROJECT FOR THE PURPOSES OF CEQA, AND NO FURTHER ENVIRONMENTAL REVIEW IS REQUIRED PURSUANT TO PUBLIC RESOURCES CODE SECTION 2770(h)(1), AND (2) APPROVES THE INTERIM MANAGEMENT PLAN, APPLICATION NUMBER P22-0010, SUBJECT TO CONDITIONS CONTAINED IN EXHIBIT 1 AND BASED ON THE FOLLOWING FINDINGS:

1. The proposal provides for the second and final five (5) renewal of the existing Interim Management Plan (IMP), which allows the Pereira Mine to remain idle for another 5 years as provided for under the Surface Mining and Reclamation Act (SMARA).
2. The proposal conforms to the Light Industrial Zone, the City of Tracy General Plan, the City's Surface Mining and Reclamation standards as required by the Tracy Municipal Code, the Public Resources Code, SMARA statutes, as both City and State regulations provide for the approval of Interim Management Plans, when a mine becomes idle or is to remain idle.

## EXHIBIT 1

### Conditions of Approval for Teichert Aggregate

### Interim Management Plan, Mining Permit, and Reclamation Plan

### for the Pereira Mine

Application Number P22-0010

December 14, 2022

#### A. General Conditions

1. These Conditions of Approval (hereinafter "Conditions of Approval") shall apply to the real property described as Assessor Parcel Numbers 253-110-06, 07, 08, 09, and 14 (hereinafter "Project"), located on the southwest corner of Linne Road and Tracy Boulevard. The conditions of approval previously approved as part of CUP16-0010 shall remain in effect and not changed or amended by the extension of the Interim Management Plan. The Interim Management Plan Renewal allows for the site to remain idle for an additional five (5) years and will not change the requirements of the approved reclamation plan.
2. The following definitions shall apply to these Conditions of Approval:
  - a) "Applicant" means any person, or other legal entity, defined as a "Developer".
  - b) "City Engineer" means the City Engineer of the City of Tracy, or any other duly licensed engineer designated by the City Manager, or the Development and Engineering Services Director, or the City Engineer to perform the duties set forth herein.
  - c) "City Regulations" means all written laws, rules, and policies established by the city, including those set forth in the City of Tracy General Plan (also known as the Urban Management Plan), the Tracy Municipal code, ordinances, resolutions, policies, procedures, and the City's Design Documents (including the Standard Plans, Standard Specifications, Design Standards, and relevant Public Facility Master Plans).
  - d) "Development and Engineering Services Director" means the Development and Engineering Services Director of the City of Tracy, or any other person designated by the City Manager of the Development and Engineering Services Director to perform the duties set forth herein.
  - e) "Conditions of Approval" shall mean the conditions of approval applicable to the Interim Management Plan, Mining Plan, and Reclamation Plan for the Pereira property, Application Number P22-0010. The Conditions of Approval shall specifically include all Development and Engineering Services Department conditions set forth herein.
  - f) "Project" means the real property described as the Pereira property as specifically described as Assessor Parcel Numbers 253-110-06, 07, 08, 09, and 14, located at the southwest corner of Linne Road and Tracy Boulevard.
  - g) "Developer" means any person, or other legal entity, who applies to the City to divide or cause to be divided real property within the Project boundaries, or who applies to the City to develop or improve any portion of the real property within the Project boundaries. The term "Developer" shall include all successors in interest.

3. The Developer shall comply with all laws (federal, state, and local) related to the development of real property within the Project, including, but not limited to: the Planning and Zoning Law (Government Code sections 65000, et seq.), the Subdivision Map Act (Government Code sections 66410 et seq.), the California Environmental Quality Act (Public Resources Code sections 21000, et seq., "CEQA"), and the Guidelines for California Environmental Quality Act (California Administrative Code, title 14, sections 1500, et seq., "CEQA Guidelines"), and the Surface Mining and Reclamation Act (SMARA).
4. Unless specifically modified by these Conditions of Approval, the Developer shall comply with all City Regulations.
5. Unless specifically modified by these Conditions of Approval, the Developer shall comply with all mitigation measures identified in the Urban Management Plan (General Plan) Environmental Impact Report, dated July 19, 1993.
6. Pursuant to Government Code section 66020, including section 66020(d)(1), the City HEREBY NOTIFIES the Developer that the 90-day approval period (in which the Developer may protest the imposition of any fees, dedications, reservations, or other exactions imposed on this Project by these Conditions of Approval) has begun on the date of the conditional approval of this Project. If the Developer fails to file a protest within this 90-day period, complying with all of the requirements of Government Code section 66020, the Developer will be legally barred from later challenging any such fees, dedications, reservations or other exactions.
7. **This Conditional Use Permit and Reclamation Plan Amendment shall expire when all reclamation work has been completed, or by December 31, 2039, whichever occurs first. Upon completion of mining, all equipment used for mining and other materials, equipment and vehicles shall be removed from the site so that reclamation can be completed but no later than December 31, 2036. To remain valid, progress towards completion of the project must be continuous. The Applicant has the sole responsibility for renewing this application before the expiration date. The City will not provide a notice prior to the expiration date.**
8. **Pursuant to Section 2772.7 of the California Public Resources Code, the Operator/Applicant shall have recorded with the County Clerk/Recorder, a "Notice of Reclamation Plan Approval" that shall include:**
  - a. **A statement that "Mining operations conducted on the hereinafter described real property are subject to a reclamation plan approved by the City of Tracy, a copy of which is on file with the City of Tracy, Development Services Department," and**
  - b. **A legal description of the property subject to said reclamation plan.**
9. **Prior to any changes of Operators, the applicant shall notify the Development Services Department 30 days prior to extraction. Any changes in operators shall not exempt the applicant/operators from providing required monitoring information.**
10. **Annually, prior to July 1<sup>st</sup>, the Applicant/Operator shall supply to the Development Services Department an accounting of the quantities and types of materials extracted**

and/or processed from the site that season. The accounting report shall indicate the dates on which the specified volumes were removed, the method used to calculate the volume figures and the signature of the person responsible for completing the report. Such report shall be submitted even if no material was mined/removed that season.

- 11. The applicant/Operator shall grant access to the property during hours of operation to permit City representatives or any consultants hired by the City for inspection, enforcement, or monitoring activities deemed desirable by the City. The Applicant shall designate an individual who is to be available at all times for purposes of supplying information deemed necessary by the authorized City representatives in connection with such work during working hours.**
- 12. The Interim Management Plan shall be in effect for an additional five (5) year period, allowing the mine site to remain idle as defined by PRC §2770(h)(2)(A) and shall expire on October 25, 2027, at which time the operator shall commence full operations of the mine or shall initiate full reclamation of the site in accordance with the approved reclamation plan.**

B. Conditions Necessary to Comply with Section 10.08.4870 of the Tracy Municipal Code (Development Standards for Surface Mining Operations)

1. Structure height. The height shall be in accordance with the Airport Overlay Zone.
2. Off-street parking. Off-street parking shall be provided and imposed as required in title 10, Article 26. In addition to the off-street parking requirements sited above, separate parking for all company vehicles and those vehicles left overnight typically moved on and off-site on regular bases shall be provided on site and screened from public rights-of-way. Said off-street parking shall be subject to the landscaping and fencing requirements of this section.
3. Buffers. Buffers shall be provided as shown on Exhibit 1 to the Resolution of Approval for Conditional Use Permit 10-00-CUP ("Mining and Reclamation Exhibit for Pereira 2000, Amended January 2001" sheets, inclusive).
4. When there is a conflict between the AMO Zone and the Underlying Zone, except for as provided in Section 10.08.4880 (d) of Article 38 of the Tracy Municipal Code, the standards of the AMO Zone shall prevail.
5. Noise suppression. All equipment and premises employed in conjunction with any of the uses allowed in the AMO Zone shall be constructed, operated and maintained so as to suppress noise at or below 65 Idn decibels at the property boundary of the lands on which surface mining/quarrying operations occur.
6. Roads and driveways. All roads and driveways shall be kept wetted with water while being used or shall be treated with asphaltic concrete or concrete or other materials acceptable to the City Engineer to prevent the emission of dust.

7. Access roads. All private access roads leading off any paved public street onto property used for any purpose permitted within Section 10.08.4860 of Article 38 shall be paved for not less than the first 100 feet of said access road and its intersection with any public right-of-way road to a minimum width of twenty-four (24') feet with asphaltic concrete or equal, not less than three (3") inches in thickness with adequate compacted base material.
8. Landscaping and fencing shall be installed in conformance with Sheet 7 of "Mining and Reclamation Exhibit for Pereira 2000, Amended January 2001", (Exhibit 1 of this Resolution, approving the Conditional Use Permit)
9. Hours of operation. All uses shall confine operations, including maintenance, on the property to the hours between 7:00 a.m. and 7:00 p.m. of any day.

In the event of local, State or Federally declared emergency affecting the operation of surface mining operations the hours of operations may be waived upon written request by the operator for that period of said emergency by Development and Engineering Services.

Upon written request of the operator, Development and Engineering Services may extend the hours of operations if sufficient cause is found as presented by the operator in said request.

10. Insurance. Before commencing surface mining operation in a quarry, the owner or operator shall show continuing evidence of insurance against liability in tort in the amount of Five Million and no/100ths (\$5,000,000.00) Dollars arising from the surface mining operations, incident thereto, conducted or carried on under or by virtue of any law or ordinance. Such insurance shall be kept in full force and effect during the period of such operations.
11. Ponding. Where practical, as determined by the Public Works Director, all excavation operations shall be conducted in such a manner as to prevent ponding or accumulation of storm or drainage water from below ground water sources.
12. Reclamation. All property partially or totally depleted of its mineral resources as a result of a use permitted by this Article shall be rehabilitated in accordance with a mining reclamation plan which has been approved pursuant to the provisions of City of Tracy Surface Mining Permit/Reclamation Ordinance.
13. Water table. No surface mining operations, inclusive of exploration activities, shall be permitted below the water table without written approval of the Regional Water Quality Control Board.
14. Dust control. Particles of dust entering the air resulting from surface mining operations and/or related activities shall be mitigated to an insignificant level so as to not cause undo hardship or economic loss of value or nuisance or cause health and safety problems on neighboring, nearby nonsurfacing mining operation uses. Mitigations for dust control may consist of, but not limited to, wetting with water uncovered earth where surface mining operations occur, planting of grass, and wind breaks.

15. Vibrations. Earth shaking or other vibrations caused by surface mining operations and/or their related activities, lasting longer than a period of thirty (30) consecutive seconds shall be contained to within the boundaries of the lands on which said activities occur.

Earth shaking or vibrations caused by surface mining operations lasting longer than a period of thirty (30) consecutive seconds shall be mitigated to an imperceptible level on lands outside the boundaries of the lands on which surface mining operations occur.

Vibration mitigation measures shall be reviewed by an independent consultant chosen by the city and paid for by the applicant. Said mitigation measures shall be subject to approval by the City.

C. Conditions Necessary to Comply with "Mitigation Monitoring" Requirements of Section 21081.6 of the Public Resources Code.

1. Geology/Earth

- a) Proposed final 2:1 slopes shall be constructed in accordance with recommendations provided by the project soil engineer, based upon appropriate performance standards, including compaction rates, keying and benching and subsurface drainage as necessary.
- b) Comply with reclamation plan terms as approved by the City and as identified in the comments of the State Office of Mine Reclamation, Department of Conservation, dated October 30, 2000.

2. Air

- a) During construction activities, applicant shall comply with the San Joaquin Valley Unified Air Pollution Control District's Regulation VIII Fugitive Dust/PM (10) Synopsis in order to reduce the amount of PM (10) injected into the ambient air from man-made sources.
- b) The applicant shall fund City staff time to monitor compliance with dust control and operation of equipment.

3. Water

- a) Berm slopes facing public streets and adjacent properties (as well as the tops of said berms) shall be hydroseeded and shall be maintained with a vegetative cover to minimize runoff and erosion.

4. Plant/Animal Life

- a) If during development of the project new evidence is revealed that development may displace or disrupt wildlife or wildlife habitat, the project applicant shall be required to

contact the California Department of Game and the Fish and Wildlife Service and follow relevant laws with respect to species found.

- b) Prior to initiation of mining activities on the site, a Burrowing Owl survey shall be conducted by a biologist and submitted to the city and Department of Fish and Game. If individuals are found on-site, Department of Fish and Game protocol shall be followed.

5. Noise

- a) Operation of the project site must comply with the Tracy Municipal Code noise standard of 65 dB leq or less at the boundary of the project adjacent to residential property. The project shall meet all other applicable standards of the Tracy Noise Ordinance.
- b) A earthen berm, a minimum of 12 feet in height shall be constructed along the frontage of the project along Linne Road and Tracy Boulevard to provide noise buffering. The berm shall remain in place during the life of the subject mine.
- c) The applicant shall fund and City shall conduct a detailed noise analysis upon commencement of operation, which shall also include a minimum monthly monitoring for the first year of operation and then annually thereafter.
- d) Hours of operation shall be from 7:00 a.m. to 7:00 p.m. of the same day.

6. Light and Glare

- a) Light Sources shall be directed down and shall be shielded to minimize glare as viewed from off-site.

7. Land Use

- a) In order to ensure the project does not adversely impact residential or other nearby uses, the applicant shall comply with all mitigation measures of the Initial Study/Negative Declaration.

8. Transportation/Circulation

- a) Prior to initiation of mining activities on the project site, the applicant shall receive approval from the City Engineer of an encroachment permit and traffic control plan for the Tracy Boulevard truck crossing.

9. Public Services

- a) The applicant shall be responsible for the cost of staff time and/or consultants to monitor compliance with mitigation measures.

10. Human Health

- a) Security fencing shall be maintained around the site to prevent unauthorized persons from entering the site.

## 11. Aesthetics

- a) During the life of the mine, an earthen berm with associated landscaping shall be maintained at a minimum height of 12 feet along the Linne Road and Tracy Boulevard frontage of the project site.

## Engineering Division Conditions of Approval

### A. General Provisions and Definitions

1. These Conditions of Approval (hereinafter "Conditions of Approval") shall apply to the real property described as Assessor's parcel Numbers 253-110-06, 07, 08, 09 and 14 (hereinafter "Project"), generally located on the southwest corner of Linne Road and Tracy Boulevard.
2. The following definitions shall apply to these Conditions of Approval:

"City Engineer" means the City Engineer of the City of Tracy, or any other duly licensed engineer designated by the City Manager, or the Development & Engineering Services Director, or the City Engineer to perform the duties set forth herein.

"City Regulations" means all written laws, rules, and policies established by the City, including those set forth in the City of Tracy General Plan (also known as the urban Management Plan), the Tracy Municipal Code, ordinances, resolutions, policies, procedures, and the City Design documents (including the Standard Plans, Standard Specifications, Design Standards, and relevant Public facility Master Plans).

"Conditions of Approval" shall mean the conditions of approval applicable to the proposed Teichert Aggregates Pereira Surface Mine.

"Operator" means any person, or other legal entity, who is engaged in surface mining operations, himself, or who contracts with others to conduct operations on his behalf. The term "Operator" shall include all successors in interest.

3. The Operator shall comply with all laws (federal, state, and local) related to The development of real property within the Project, including, but not limited to: the Planning and Zoning Law (Government Code Sections 65000, *et seq.*), the Subdivision Map Act (Government Code Section 66410, *et seq.*), the California Environmental Quality Act (Public Resources Code Sections 21000, *et seq.*, "CEQA"), and the Guidelines for California Environmental Quality Act (California Administrative Code, Title 14, sections 15000, *et seq.*, "CEQA Guidelines").
4. Pursuant to Government Code Section 66020, including Section 66020(d)(1), the City HEREBY NOTIFIES the Operator that the 90-day approval period (in which the

Operator may protest the imposition of any fees, dedications, reservations, or other exactions imposed on this Project by these Conditions of Approval) has begun on the date of the conditional approval of this Project. If the Operator fails to file a protest within this 90-day period, complying with all of the requirements of Government Code Section 66020, the Operator will be legally barred from later challenging any such fees, dedications, reservations or other exactions.

**B. Conditions of Approval Prior to Approval of Permit Applications:**

No application for permit within the Project boundaries will be accepted by the City as complete until the Operator provides all documents required by City Regulations and these Conditions of Approval, to the satisfaction of the City Engineer, including, but not limited to, the following:

1. The Operator has completed all requirements set forth in this section.
2. The Operator has obtained the approval of all other public agencies with jurisdiction over the proposed mining and reclamation operations.
3. Execution of all agreements, posting of all improvement security, and providing documentation of insurance, as required by these Conditions of Approval.
4. The improvement plans for all improvements required to serve the Project in accordance with the City Ordinances, the City Design Documents, and these Conditions of Approval. The improvement plans shall be prepared to specifically include, but not be limited to, the following items:
  - a) All existing utilities.
  - b) All supporting calculations, specifications, and reports related to the design of the improvements.
  - c) Reclamation Plan prepared on mylar furnished by the City, Improvement Plan shall be prepared under the supervision of, and stamped and signed by a Registered Civil Engineer.
  - d) The grading plan in accordance with applicable sections of the Tracy Municipal Code.
5. Payment of all applicable processing fees including plan check fees, agreement processing fees, permit and inspection fees required by these Conditions of Approval and City Regulations.
6. Applicant shall provide the City an irrevocable offer of dedication to reflect ultimate sections for Tracy Boulevard and Linne Road in accordance with the Roadway Master Plan. The ultimate right-of-way for Linne Road is 140 feet (including 15 feet wide landscape strip), and 70 feet for Tracy Boulevard. Said offer for dedication for Linne Road shall be used for the expansion of that road and related street purposes.

Although the City anticipates that it will not need to expand Linne Road for several years, the Applicant specifically recognizes that the City may accept the dedication of Linne Road at any time after it is offered. Prior to the time the City accepts said offer of dedication for Linne Road, the Applicant may place its berm, as required by Planning Condition C.5.b., on the property that is subject to dedication. If however, the City chooses to accept said offer of dedication for Linne Road before Applicant completes mining and reclamation, the Applicant shall at his costs remove said berm and clear the offer for dedication. The City and the applicant shall bear all costs associated with the removal and replacement of any noise attenuation device required for this operation. The minimum slope of the berm facing these street frontages shall be 2:1. Any dedication of right-of-way in excess of the Applicant's responsibility shall be eligible for reimbursements from South ISP improvement costs after completion and acceptance by the City of the ultimate roadway improvements for these streets.

7. Plans shall show how the storm drainage discharge from Tracy Airport will be handled during and after the mining operations.
8. Due to extremely high volume of truck traffic crossing Tracy Boulevard, additional measures beyond the proposed flagmen for traffic control may be required by the City based on review of detailed traffic control plans, and observation of trucking operations. If a traffic signal is warranted, the Applicant shall design and complete construction of the signal within 120 days from receipt of written notice from the City. In the event the applicants elect to install a conveyor belt crossing across Tracy Boulevard, the design and construction shall be completed within six months of start of excavation.
9. Applicant shall pay to the City five cents per each ton of mined material sold. This payment is used to construct South ISP traffic improvements. Said payments shall be made to the City on a quarterly basis. Any monies paid pursuant to this condition shall be offset against future South ISP fees which may be due and payable when subject property is developed. An agreement shall be executed between the City and the Applicant reflecting the terms of this condition.
10. Within 15 days from issuance of the first permit, the Applicant shall submit a technical analysis prepared by a licensed Geologist Consultant from the State of California establishing the potential area of influence on the water table and adjoining wells surrounding the property. The analysis shall provide methods for monitoring and mitigation. During the mining operations, the Applicant will monitor the impacts to the water table in the neighboring properties. The Applicant will enter into private agreements with properties surrounding the site and properties located immediately west of the site acknowledging financial responsibility to mitigate in a manner acceptable to the City Engineer any demonstrated adverse impacts to existing wells on these properties as a result of the Applicants operations to ensure continuous water supply from the existing or new wells on these sites.

- C. Conditions of Approval Prior to Approval of Reclamation Plan. Reclamation Plan will not be approved by the City until Operator provides documentation which demonstrates, to the satisfaction of the City engineer, that:
  - 1. The Operator has completed all requirements set forth in Condition B above and this section.
  - 2. Comments and issues included in the Department of Conservation's letter to the City dated October 30, 2000 have been addressed to their satisfaction.
  - 3. Reclamation plan approved by the City Engineer.
  - 4. Performance bond or other security satisfactory to the City shall be submitted as required by Article 37, Section 10.08.4750 of Tracy Municipal Code. The security shall be in effect until the reclamation work is accepted by the City.
  - 5. The Reclamation Plans shall be revised to incorporate the following:
    - a) The 2:1 slopes must comply with the 1998 California Building Code (CBC). The slopes must incorporate terracing, swales and access to terraces in accordance with Section 3315 of the CBC unless site specific geologic and engineering analysis, acceptable to the City Engineer, demonstrates through a slope stability analysis that 2:1 from the top to floor is stable for the proposed end use.
    - b) The Applicant shall confer with the City as to the acceptability of the proposed concrete channels so as to explore that and other engineering options. Applicant recognizes that the City may or may not ultimately find the proposed concrete channels acceptable. If they are not acceptable, the Applicant shall install and bear all costs associated with a mutually agreed to acceptable drainage solution.
    - c) Cross-sections for Linne Road is 140 feet per the City's adopted Roadway Master Plan. The Operator shall offer for dedication the appropriate right-of-way for this ultimate section.
    - d) The plan shall be revised to provide a maintenance access road to the bottom of the retention basin. The entire perimeter of the basin shall have a six foot high chain link fence.
  - 6. The Operator shall submit design calculations in accordance with the City's Design Standards for the sizing of the retention basin. The calculations must also contain the percolation rate.
  - 7. The Operator shall submit a contingency plan for approval by the City Engineer for revegetation should the initial vegetation plan fail to produce 80 percent coverage of the 2:1 sloped areas.
  - 8. The Operator shall submit a revised construction estimate based on incorporation of the above revisions to the Reclamation Plan for approval by the City Engineer. Once the estimate is approved, the operator shall bond for this amount.

9. The Operator shall deposit a cash surety in the amount of \$25,000 to provide for revegetation and maintenance of the sloped areas. The Operator shall submit to the City of Tracy, Development Services Department financial assurance(s) payable to the City of Tracy and, in the alternative, the State Department of Conservation, in an amount and format to be reviewed and approved by the Development Services Department and the State Department of Conservation – Division of Mine Reclamation, to assure compliance with the approved Reclamation Plan and conditions thereof for the entire area of the quarry. A valid financial assurance shall be maintained on file until the City of Tracy, Development Services Department determines that all reclamation has been successfully carried out in compliance with the reclamation and final conditions. Financial assurance shall renew automatically and shall not expire without 90-days advance written notice being provided to the City of Tracy. A Continuation Certificate or other proof of extended coverage shall be forwarded to the Development Services Department no less than 30 days prior to the expiration date of the financial assurance. The Development Services Department may adjust the amount of the security on an annual basis to account for additional lands disturbed or reclaimed, inflation, or revised cost estimates. The financial assurance shall reference the name of the mining site, the resolution number of the City approval and the permit number.
10. All grading shall require a Grading Permit. Erosion control measures shall be implemented in accordance with plans approved by the City Engineer for all grading work not completed before October 15<sup>th</sup>. Improvement Plans shall designate all erosion control methods and materials to be employed.

DIRECTOR PUBLIC HEARING  
AGENDA ITEM 1.B

REQUEST

**PUBLIC HEARING TO CONSIDER (1) DETERMINING THAT AN ADDENDUM TO THE INITIAL STUDY AND MITIGATED NEGATIVE DECLARATION FOR THE TRACY DESALINATION AND GREEN ENERGY PROJECT IS THE APPROPRIATE ENVIRONMENTAL DOCUMENTATION TO COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) AND THE CEQA GUIDELINES, PURUSANT TO CEQA GUIDELINES SECTIONS 15162 AND 15164, FOR THE CONSTRUCTION OF A FACILITY TO REMOVE CARBON DIOXIDE FROM THE ATMOSPHERE, INCLUDING A 12,750 SQUARE FOOT EQUIPMENT ENCLOSURE, A 25,600 SQUARE FOOT OPEN-AIR EQUIPMENT YARD, A 1,500 SQUARE FOOT OFFICE TRAILER, PARKING AREA AND LANSCAPING IMPROVEMENTS, LOCATED AT 4750 HOLLY DRIVE, ASSESSOR'S PARCEL NUMBER 212-160-11, APPLICATION NUMBER D22-0039 (HEREINAFTER "PROJECT"), AND (2) APPROVING A DEVELOPMENT REVIEW PERMIT TO CONSTRUCT THE PROJECT. APPLICANT IS HEIRLOOM CARBON TECHNOLOGIES, INC. AND TRACY RENEWABLE ENERGY, LLC. PROPERTY OWNER IS THE CITY OF TRACY.**

DISCUSSION

This agenda item involves a request for a Development Review Permit to construct a facility to remove carbon dioxide from the atmosphere consistent with the State's goal to achieve carbon neutrality no later than 2045.

The proposed project would be the first direct air-capture carbon dioxide removal facility in the country. The carbon dioxide removal facility would be located on a 2.2-acre portion of a City-owned parcel at 4750 Holly Drive at the northeast corner of Holly Drive and Arbor Avenue, which is a portion of the Tracy Desalination and Green Energy Project site that includes the Tracy Desalination Plant and the soon to be constructed five-megawatt bio-mass electrical generating power plant (Attachment A – Location Map).

The carbon dioxide removal facility would consist of an approximately 12,750 square-foot equipment enclosure and a 25,600-square foot open-air equipment yard (Attachment B – Project Plans). The sides of the equipment enclosure would consist of chain link fencing material and a white screening fabric that would allow air flow. The facility would remove carbon dioxide (CO<sub>2</sub>) from the atmosphere by using a scalable direct air capture technology. Compressed CO<sub>2</sub> would be transported off-site for United States Environmental Protection Agency (EPA)-regulated carbon storage. The proposed direct air capture process would use calcium carbonate (an earth-abundant material), and renewable energy, to capture CO<sub>2</sub> directly from the air (Attachment C – Description of Equipment and Process).

The carbon dioxide removal process involves (in summary):

- Limestone is spread onto trays to absorb CO<sub>2</sub> from the atmosphere; and

- The limestone is heated in a renewable-energy powered kiln for a brief period of time to release the carbon dioxide gas from the limestone; and
- The carbon dioxide gas is transported away to be stored safely and permanently offsite. The limestone can then again be reused to pull more carbon dioxide from the air in what is a closed-loop cycle.

The proposed facility would not emit odors, and there would be an integral dust control system that would continuously monitor the moisture content of the substrate and would spray the material with water when the moisture content approaches 5% (to prevent material loss to the air).

Approximately sixteen staff personnel would work out of a portable office trailer located on-site. The project is a pilot installation with an anticipated useful life and tenancy of three years. The carbon dioxide removal facility would require approximately one truck trip each week to pick up the compressed CO<sub>2</sub> and one truck trip every three months to exchange the used limestone with new limestone.

The subject property is located in the Light Industrial (M-1) Zone. The proposed facility is a permitted use in the M-1 Zone. All adjacent properties are zoned M-1. The proposed design of the facility is compatible with the surrounding industrial area, including the Tracy Desalination Plant, the bio-mass power plant, and the City's Wastewater Treatment Plant.

#### Environmental Document

An Initial Study and Mitigated Negative Declaration (IS/MND) for the Tracy Desalination and Green Energy Project was adopted by the City Council on May 1, 2012 (Resolution No. 2012-75), in accordance with the requirements of the California Environmental Quality Act (CEQA) and the CEQA Guidelines. The proposed carbon dioxide removal facility is a revision to a 2.2-acre portion of the 237-acre Tracy Desalination and Green Energy project site. An Addendum to the IS/MND has been prepared, pursuant to CEQA Guidelines Sections 15162 and 15164, based on the findings that the proposed revisions to the previously approved Tracy Desalination and Green Energy Project will not result in new significant impacts or substantially increase the severity of impacts previously identified in the IS/MND, and there are no previously infeasible alternatives that are now feasible. Therefore, an Addendum is appropriate, and an Addendum has been prepared consistent with the requirements of CEQA Guidelines Section 15162 and 15164 (Attachment D – Addendum to the IS/MND).

#### RECOMMENDATION

Staff recommends that the Development Services Director: (1) determine that an Addendum to the Initial Study and Mitigated Negative Declaration for the Tracy Desalination and Green Energy Project is the appropriate environmental documentation to comply with the requirements of the California Environmental Quality Act (CEQA) and the CEQA Guidelines, pursuant to CEQA Guidelines Sections 15162 and 15164, for the construction of a facility to remove carbon dioxide from the atmosphere, including a 12,750 square foot equipment enclosure, a 25,600 square foot open-air equipment yard, a 1,500 square foot office trailer, parking area and landscaping improvements, located at 4750 Holly Drive, Assessor's Parcel Number 212-160-11,

Director Public Hearing

Agenda Item 1.B

December 14, 2022

Page 2

Application Number D22-0039 (hereinafter “Project”), and (2) approve a Development Review Permit to construct the Project, based on the findings contained in the Development Services Director Determination dated December 14, 2022 (Attachment E – Development Services Director Determination).

Prepared by Scott Claar, Senior Planner

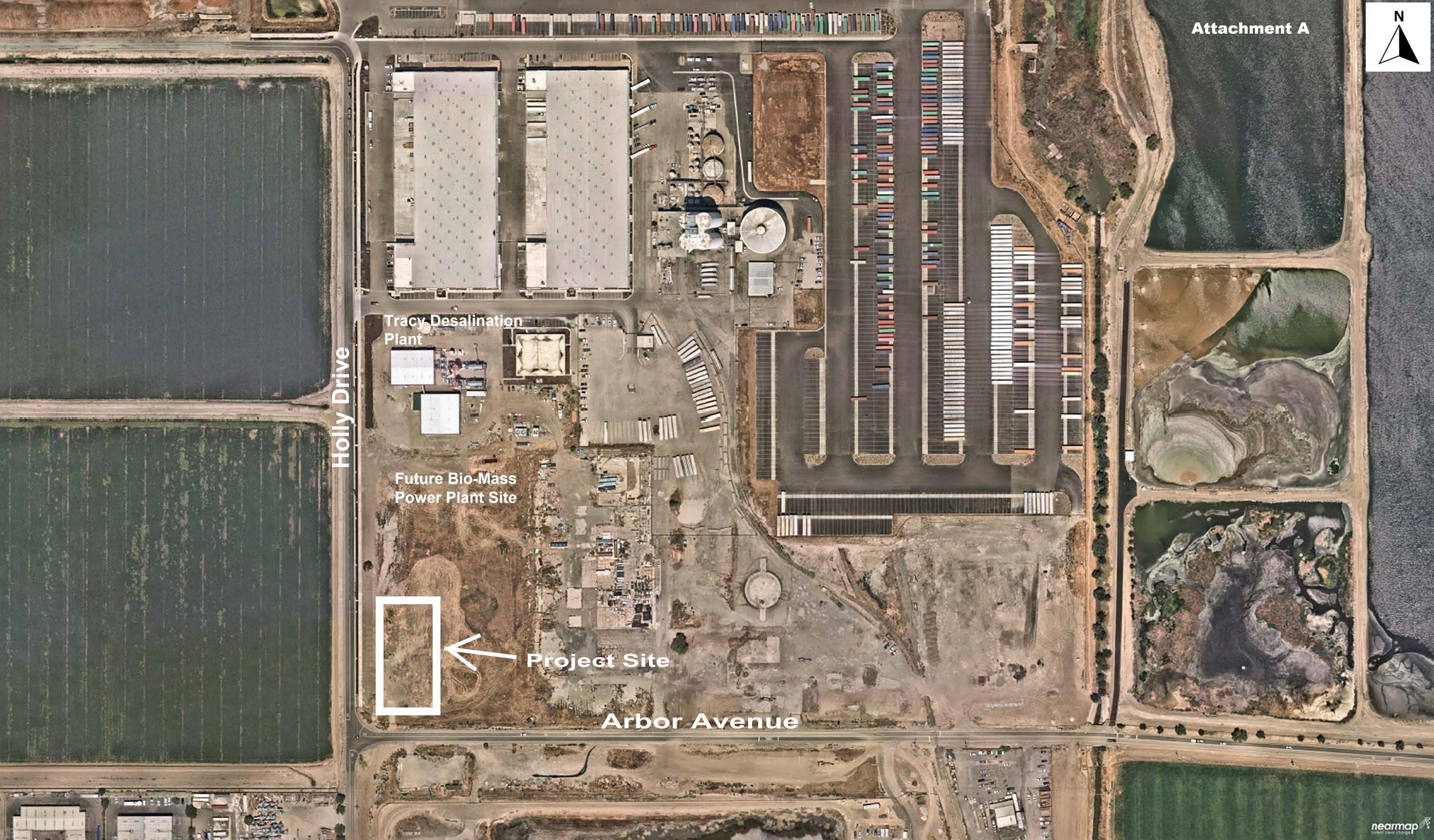
Approved by Bill Dean, Assistant Development Services Director

ATTACHMENTS

- A: Location Map
- B: Project Plans
- C: Description of Equipment and Process
- D: Addendum to the IS/MND
- E: Development Services Director Determination
  - Exhibit 1 – Conditions of Approval

N

Attachment A



**RECEIVED**  
December 05, 2022  
City of Tracy  
Development Services

# PILOT PLANT PROJECT

HEIRLOOM CARBON TECHNOLOGIES  
4750 S HOLLY DRIVE, TRACY, CA



## PROJECT TEAM

**OWNER**  
HEIRLOOM CARBON  
125 VALLEY DRIVE  
BRISBANE, CA 94005  
(510) 512-6202

CONTACT: SEAN PUTERBAUGH  
SEAN@HEIRLOOMCARBON.COM

**ARCHITECT & LANDSCAPE**  
MITHUN, INC.  
660 MARKET STREET, SUITE 300  
SAN FRANCISCO, CA 94104  
(415) 956-0688

CONTACT: SEAN PUTERBAUGH  
SEAN@HEIRLOOMCARBON.COM

**CIVIL ENGINEER**  
WOOD RODGERS, INC.  
4670 WILLOW ROAD, SUITE 125  
PLEASANTON, CA 94588  
(925) 847-1566

CONTACT: JASON STEINER  
JASONS@MITHUN.COM

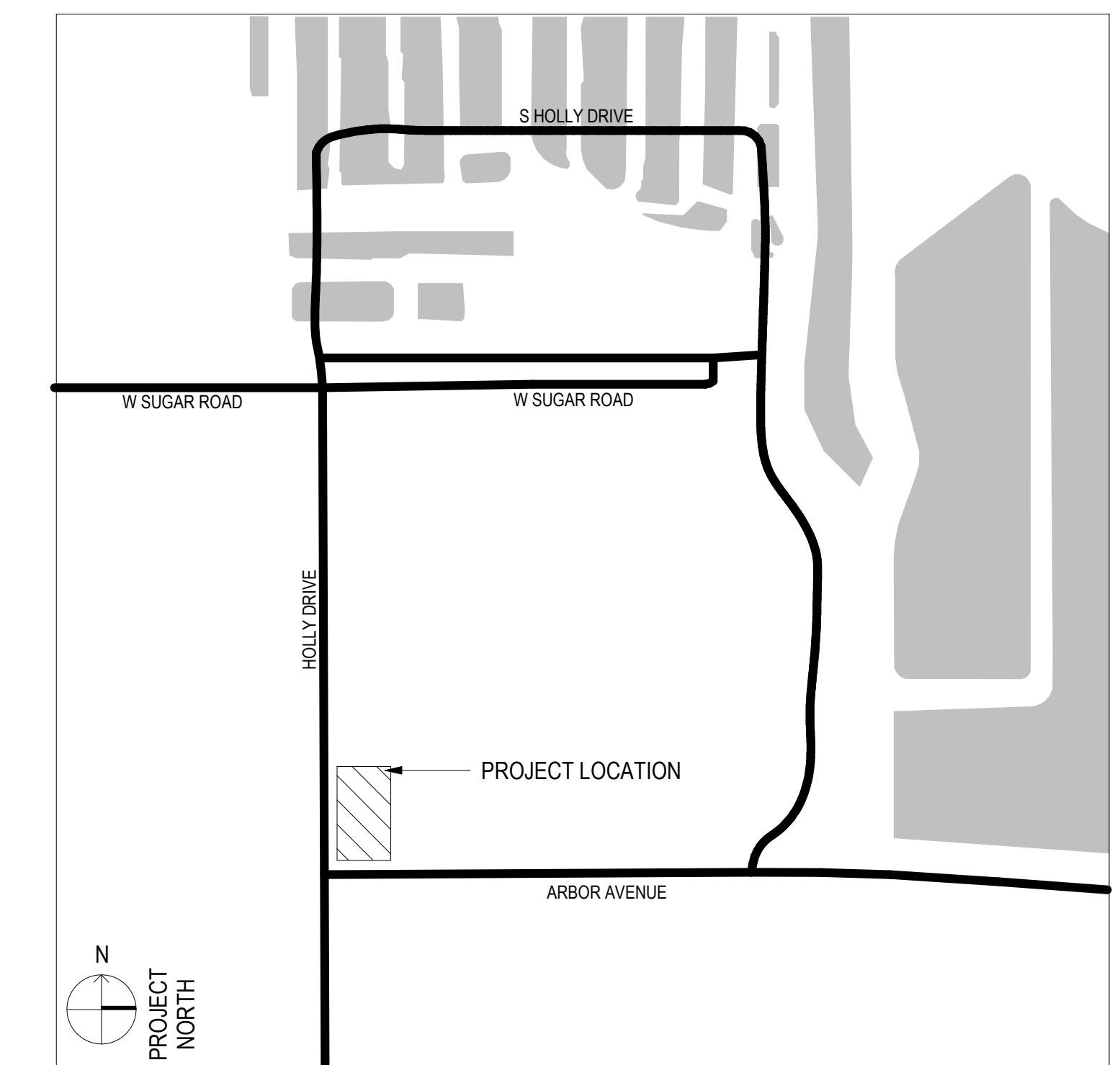
**STRUCTURAL ENGINEER**  
THORNTON TOMASETTI  
301 HOWARD STREET, SUITE 1030  
SAN FRANCISCO, CA 94105  
(415) 365-6900

CONTACT: MARY-JANE KABALIN  
MJKABALIN@WOODRODGERS.COM

**ELECTRICAL ENGINEER**  
WILDER ENGINEERING, LLC  
1170 BLUE SAGE DRIVE  
STEAMBOATS SPRINGS, CO 80487  
(970) 819-7848

CONTACT: THERESA CURTIS  
TCURTIS@THORNTONTOMASETTI.COM

## Attachment B



**2 VICINITY MAP**  
1" = 400'-0"

## SHEET INDEX - PLANNING PERMIT

Sheet Number	Sheet Name
<b>GENERAL</b>	
GP-0.1	COVER SHEET
GP-1.2	AERIAL & CONTEXT PHOTOGRAPH
<b>CIVIL</b>	
C1	PRELIMINARY OVERALL SITE PLAN
C2	PRELIMINARY SITE PLAN
C3	PRELIMINARY GRADING PLAN
C4	PRELIMINARY UTILITY PLAN
<b>LANDSCAPE</b>	
LP-1	PRELIMINARY LANDSCAPE PLAN
<b>ARCHITECTURAL</b>	
AP-1.0	ARCHITECTURAL SITE PLAN
AP-2.1	PRELIMINARY FLOOR PLAN - EQUIPMENT ENCLOSURE
AP-2.2	PRELIMINARY ROOF PLAN - EQUIPMENT ENCLOSURE
AP-2.3	PRELIMINARY PLANS & ELEVATIONS - OFFICE TRAILER
AP-3.1	PRELIMINARY EXTERIOR ELEVATIONS - EQUIPMENT ENCLOSURE
AP-3.2	PRELIMINARY EXTERIOR ELEVATIONS - EQUIPMENT ENCLOSURE
AP-3.5	BUILDING SECTION ELEVATIONS
AP-11.0	EXTERIOR RENDERINGS

**MITHUN**  
Seattle | Pier 56, 1201 Alaskan Way, #200  
Seattle, WA 98101 | 206.623.3344  
San Francisco | 660 Market Street, #300  
San Francisco, CA 94104 | 415.956.0688  
Los Angeles | 5837 Adams Blvd  
Culver City, CA 90232 | 323.937.2150  
mithun.com

**PROJECT**  
**PILOT PLANT PROJECT**

**LOCATION**  
**4750 S HOLLY DRIVE,  
TRACY, CA 95304**

**PREPARED FOR**  
**HEIRLOOM CARBON  
TECHNOLOGIES**

NO. DATE  
REVISION  
DESIGN PARTNER  
JS PROJECT MANAGER  
SB PROJECT ARCHITECT  
AH PROJECT DESIGNER  
JS PROJECT TEAM MEMBERS  
- CHECK  
KB

**COVER SHEET**

PROJECT NO.  
**2229800**  
DATE  
**09/06/22**

ORIGINAL SHEET SIZE 24" x 36"  
**GP-0.1**  
HEIRLOOM UNO  
© 2016 MITHUN, INC.

## LIST OF ADDITIONAL MATERIAL TO BE INCLUDED FOR BUILDING PERMIT PLAN SET

1. TRAILER MANUFACTURER'S DRAWINGS FOR ENVELOPE SHELL, STRUCTURAL, MECHANICAL, AND ELECTRICAL SCOPE.
2. FIRE SPRINKLER FOR EQUIPMENT ENCLOSURE
3. FIRE ALARM MONITORING SYSTEM FOR EQUIPMENT ENCLOSURE

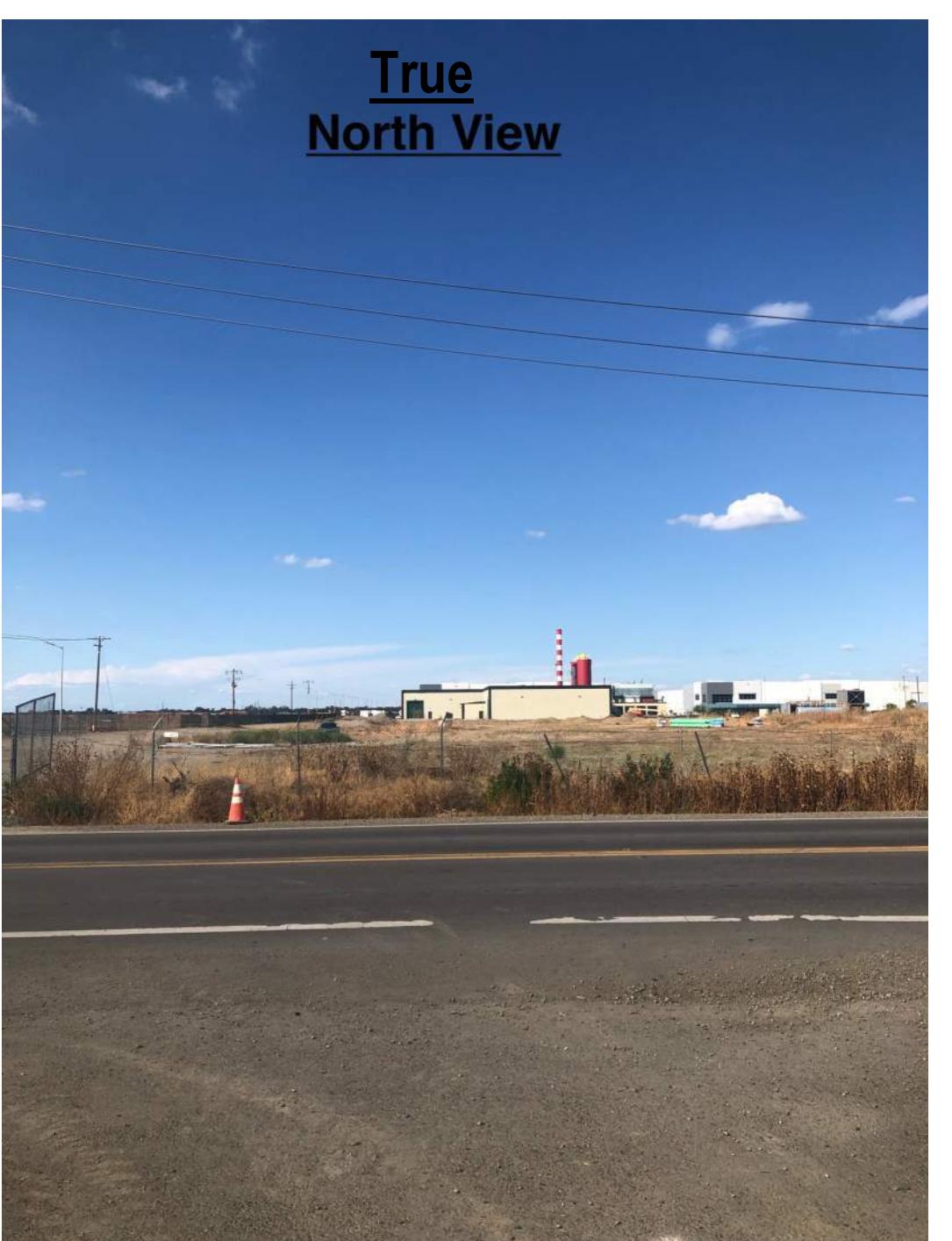
# AERIAL & CONTEXT PHOTOGRAPH

PROJECT NO.  
**2229800**  
DATE  
**09/15/22**  
  
SHEET NUMBER  
**GP-1.2**  
  
**HEIRLOOM UNO**  
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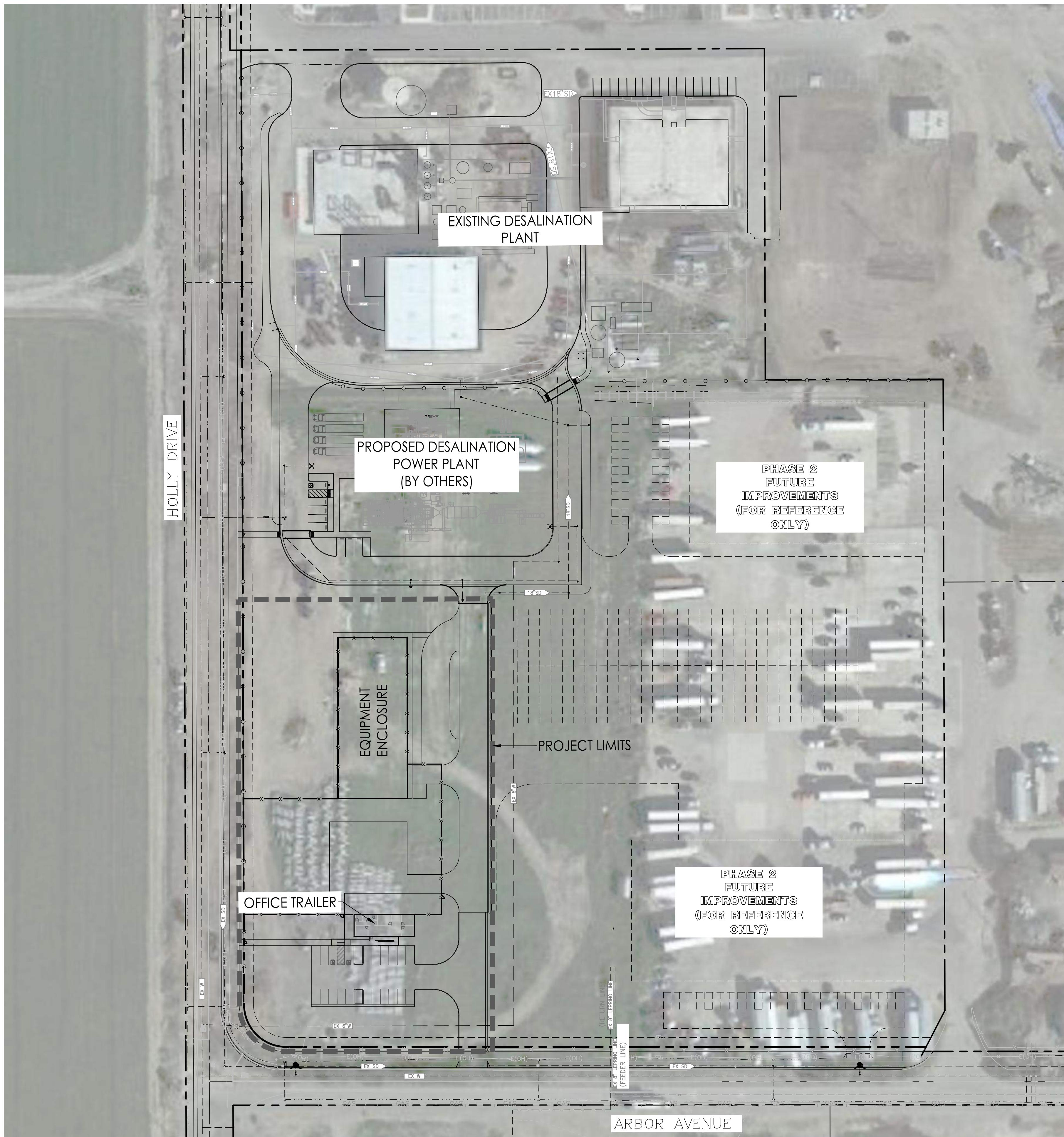
# 1 AERIAL PHOTOGRAPH, DATED JUNE 6TH, 2001

1" = 20



PROJECT NO.  
**2229800**  
DATE  
**09/15/22**

HEET NUMBER  
**GP-1.**  
HEIRLOOM UNO  
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# CARBON CAPTURE

## TRACY, CA

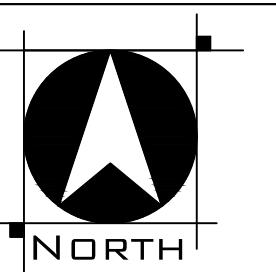
### NOVEMBER 2022

# HEIRLOOM CARBON TECHNOLOGIES

125 VALLEY DRIVE  
BRISBANE, CA 94005

# PRELIMINARY OVERALL SITE PLAN

SHEET C1 OF 5

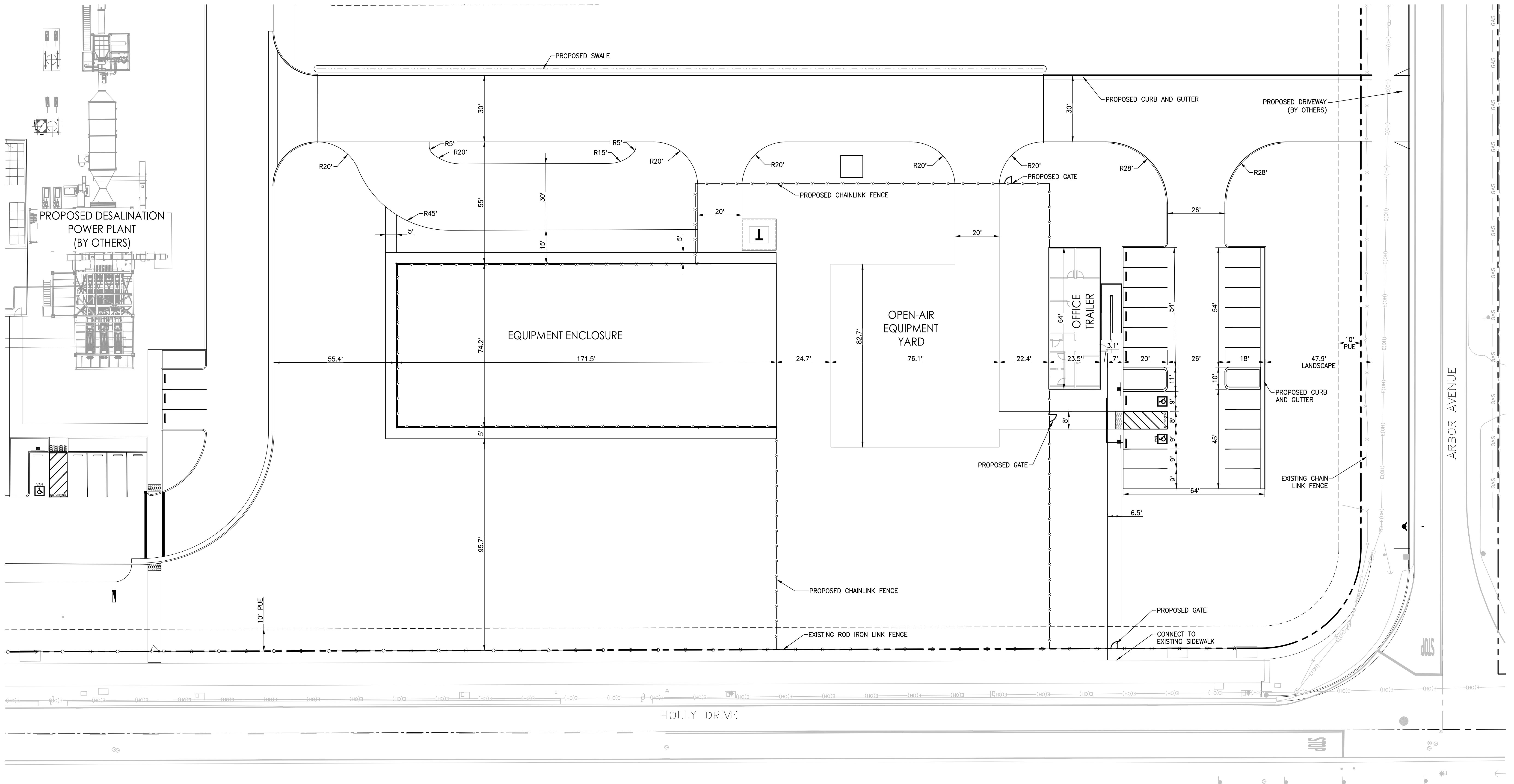


SCALE: 1" = 60'

**WOOD RODGERS**  
BUILDING RELATIONSHIPS ONE PROJECT AT A TIME  
670 WILLOW ROAD, SUITE 125 Tel 925.847.1556  
Pleasanton, CA. 94588 Fax 925.847.1557

**4670 WILLOW ROAD, SUITE 125 Tel 925.847.1556  
Pleasanton, CA. 94588 Fax 925.847.1557**

\Jobs\4080001\_Tracy Power Plant\Tracy Carbon Capture\Civil\DWG\Preliminary Planning\C-1\_SITE PLAN.dwg 11/18/2022 1:19 PM Mary Jane Kabalin

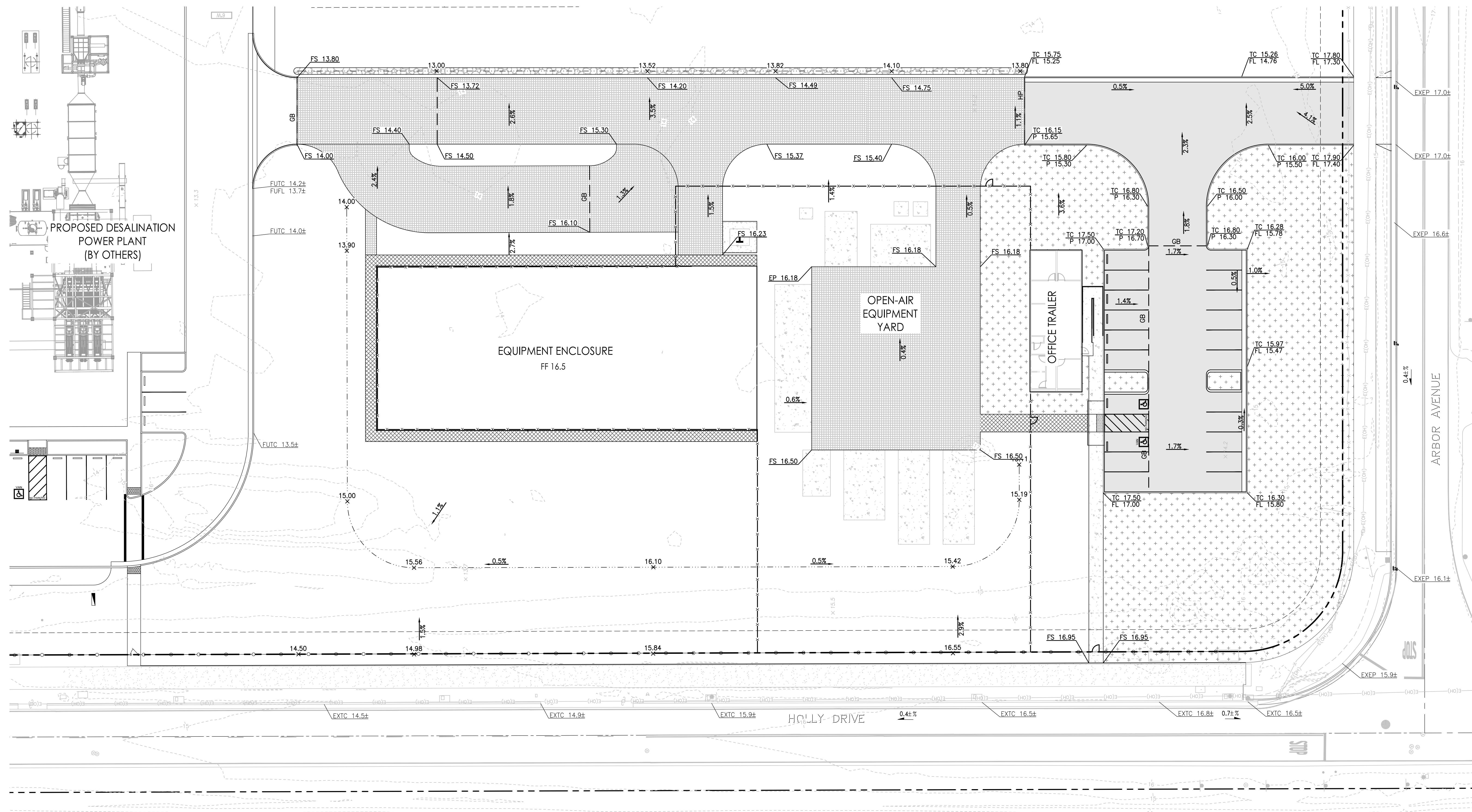


**CARBON CAPTURE**  
TRACY, CA  
NOVEMBER 2022

**HEIRLOOM CARBON TECHNOLOGIES**

125 VALLEY DRIVE  
BRISBANE, CA 94005

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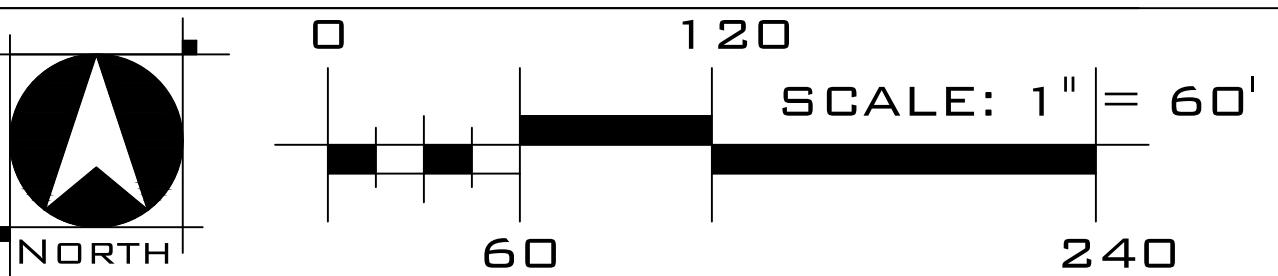


CARBON CAPTURE  
TRACY, CA  
NOVEMBER 2022

HEIRLOOM CARBON TECHNOLOGIES

125 VALLEY DRIVE  
BRISBANE, CA 94005

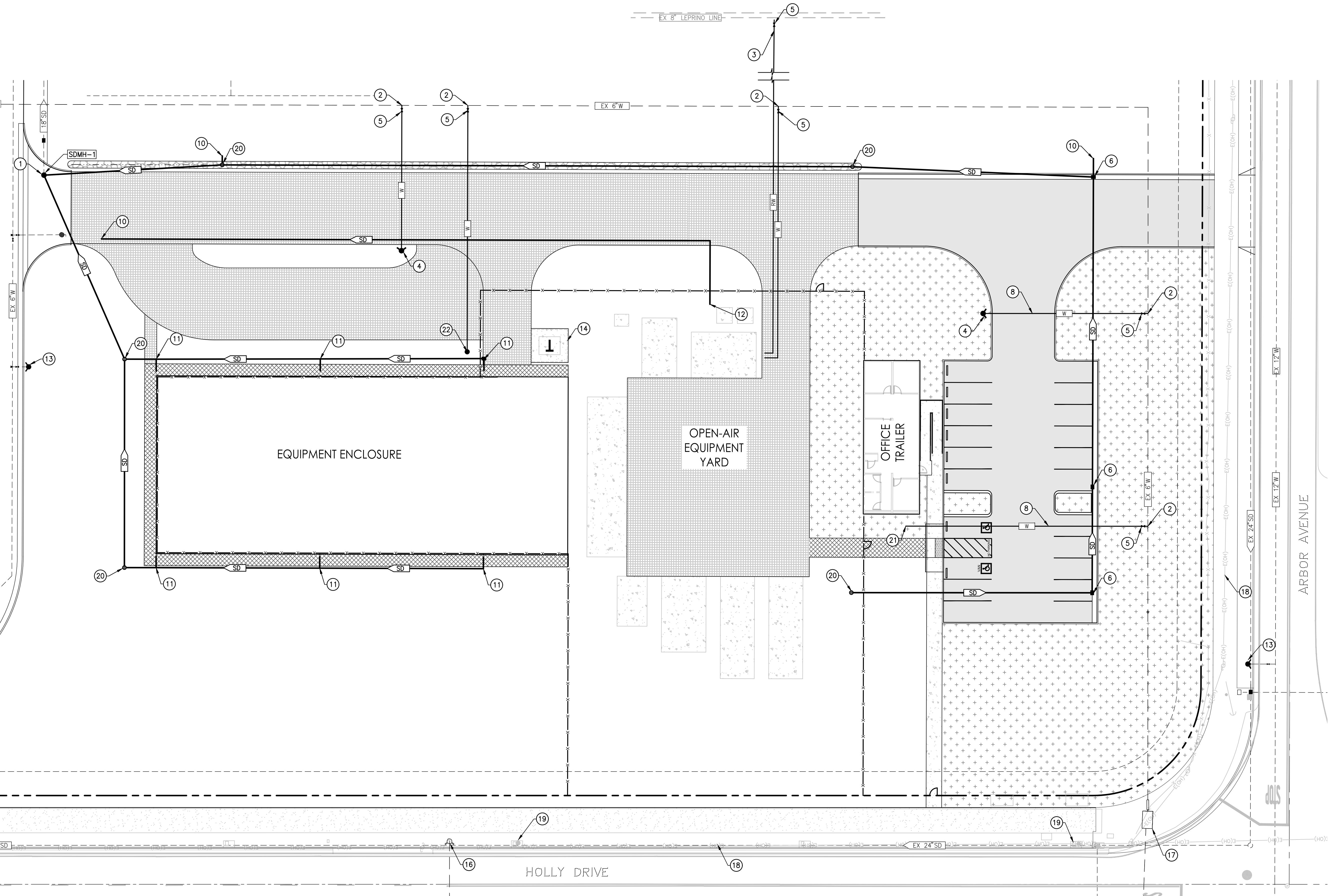
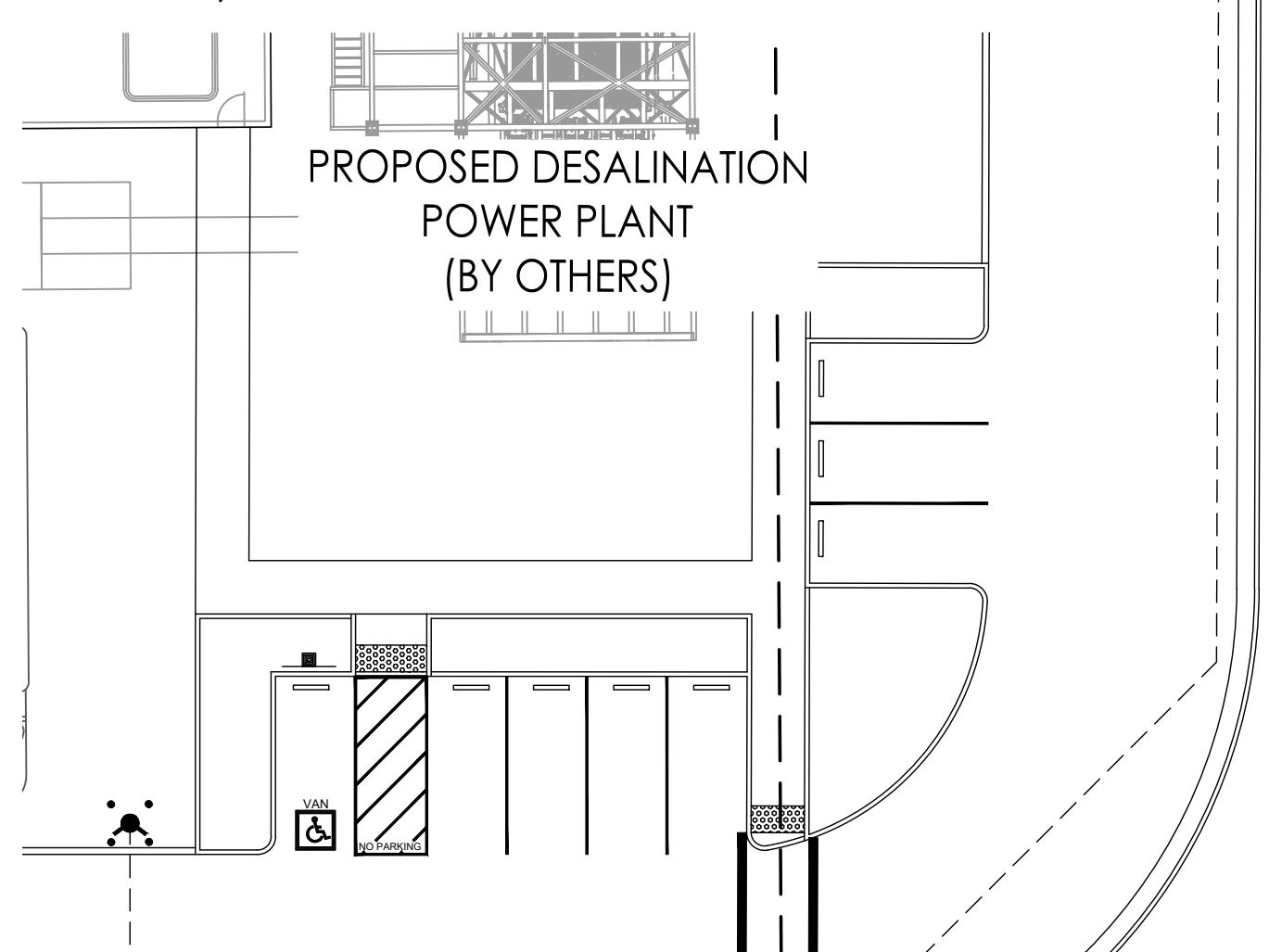
PRELIMINARY GRADING PLAN  
SHEET C3 OF 5



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BUILDING RELATIONSHIPS ONE PROJECT AT A TIME  
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Pleasanton, CA. 94588 Fax 925.847.1557

## CONSTRUCTION NOTES

- ① CONNECT TO PROPOSED DESALINATION POWER PLANT STORM DRAIN SYSTEM (STORM WATER TO DISCHARGE INTO DESALINATION PROCESSING SYSTEM)
- ② CONNECT TO EXISTING 6" WATER.
- ③ CONNECT TO EXISTING 8" RECYCLED WATER
- ④ FIRE HYDRANT PER CITY OF TRACY STANDARD DETAIL 401.
- ⑤ GATE VALVE, BOX & RISER PER CITY OF TRACY STANDARD DETAIL 402.
- ⑥ TYPE A DROP INLET PER CITY OF TRACY STANDARD DETAIL 204.
- ⑦ STORM DRAIN MANHOLE PER CITY OF TRACY STANDARD DETAIL 300.
- ⑧ PROPOSED WATER SERVICE
- ⑨ PROPOSED RECYCLED WATER SERVICE
- ⑩ INSTALL STORM DRAIN STUB FOR FUTURE CONNECTION.
- ⑪ CONNECT TO PROPOSED RAINWATER LEADERS
- ⑫ CONNECT TO PROPOSED STORM WATER WASTE FROM EQUIPMENT ENCLOSURE
- ⑬ PROPOSED FIRE HYDRANT (BY DESALINATION POWER PLANT PROJECT)
- ⑭ PROPOSED TRANSFORMER (BY OTHERS)
- ⑮ PROPOSED ELECTRICAL SERVICE (BY OTHERS)
- ⑯ EXISTING FIRE HYDRANT
- ⑰ EXISTING WATER METER AND BACKFLOW
- ⑱ EXISTING OVERHEAD ELECTRIC (TO BE UNDER GROUNDED BY DESALINATION POWER PLANT PROJECT)
- ⑲ EXISTING STREET LIGHT
- ⑳ PROPOSED AREA DRAIN
- ㉑ CONNECT TO OFFICE TRAILER WATER SYSTEM (SEE SEPARATE PLANS BY OTHERS)
- ㉒ FIRE SYSTEM – STAND PIPE (FOR CONTINUATION SEE SEPARATE PLAN BY OTHERS)

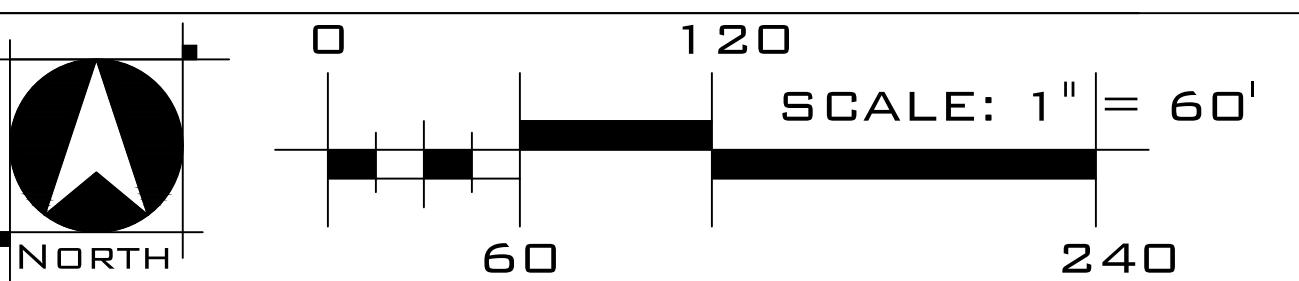


CARBON CAPTURE  
TRACY, CA  
NOVEMBER 2022

HEIRLOOM CARBON TECHNOLOGIES

125 VALLEY DRIVE  
BRISBANE, CA 94005

PRELIMINARY UTILITY PLAN  
SHEET C4 OF 5



WOOD RODGERS  
BUILDING RELATIONSHIPS ONE PROJECT AT A TIME  
4670 WILLOW ROAD, SUITE 125 Tel 925.847.1556  
Pleasanton, CA. 94588 Fax 925.847.1557

KEYMAP	DATE
NO.	DATE
REVISION	
DESIGN PARTNER	
JS	PROJECT MANAGER
TMP	PROJECT LANDSCAPE ARCHITECT
TMP	PROJECT TEAM MEMBERS
AO, TMP	CHECK
TMP	LANDSCAPE ARCHITECT SEAL

## PLANTING SCHEDULE

SHOWN FOR REFERENCE ONLY

CANOPY SHADE TREE TYPE A

CANOPY SHADE TREE TYPE B

SHRUBS AND GROUNDCOVER MIX OF 4 SPECIES @ 25%/EA 15,490 SF TOTAL

NOTE OFF-SITE PLANTING IMPROVEMENTS BETWEEN STREET CURBS AND PROPERTY LINE ARE DEVELOPED BY OTHERS UNDER SEPARATE PERMIT AND ARE SHOWN FOR REFERENCE ONLY.

— — — LIMIT OF WORK FOR PLANTING AND IRRIGATION

— — — PROPERTY LINE

CANOPY SIZE % SHADED  CANOPY SHADE % INDICATOR

SPECIES NAME	COMMON NAME	QTY	BOX SIZE	MATURE	WUCOLS	ANNUAL GROWTH
Fraxinus americana 'Autumn Purple'	Ash	18	24" BOX	40"x40"	L	3'-4"
Ulmus sp. 'Prospector'	Elm		24" BOX	40"x30"	L	2'-2.5"
Platanus acerifolia 'Columbia'	Sycamore	30	24" BOX	30"x15"	M	6'-10'
Zelkova serrata 'Village Green'	Sawleaf Zelkova		24" BOX	50"x60"	M	1'-2"
<b>SHRUBS AND GROUNDCOVER</b>	<b>SPECIES NAME</b>	<b>COMMON NAME</b>	<b>QTY</b>	<b>SIZE</b>	<b>MATURE</b>	<b>WUCOLS</b>
17,258 SF TOTAL	S. <i>Salvia microphylla</i> 'Hot Lips'	Graham sage	15%	5 GAL	3"x6"	M
	S. <i>Mahonia aquifolium</i> 'Orange Flame'	Oregon grape	15%	5 GAL	3"x4"	M
	S. <i>Lomandra longifolia</i> 'Lomlon'	Dwarf mat rush	20%	5 GAL	3"x3"	L
	G. <i>Ceanothus griseus</i>	Carmel ceanothus	25%	1 GAL	3"x10"	L
	G. <i>Cistus salviifolius</i> 'Prostratus'	Sageleaf rockrose	25%	1 GAL	2"x6"	L

GENERAL NOTES  
1. S.A.D. FOR ALL SITE WORK DIMENSIONS AND MATERIALS.

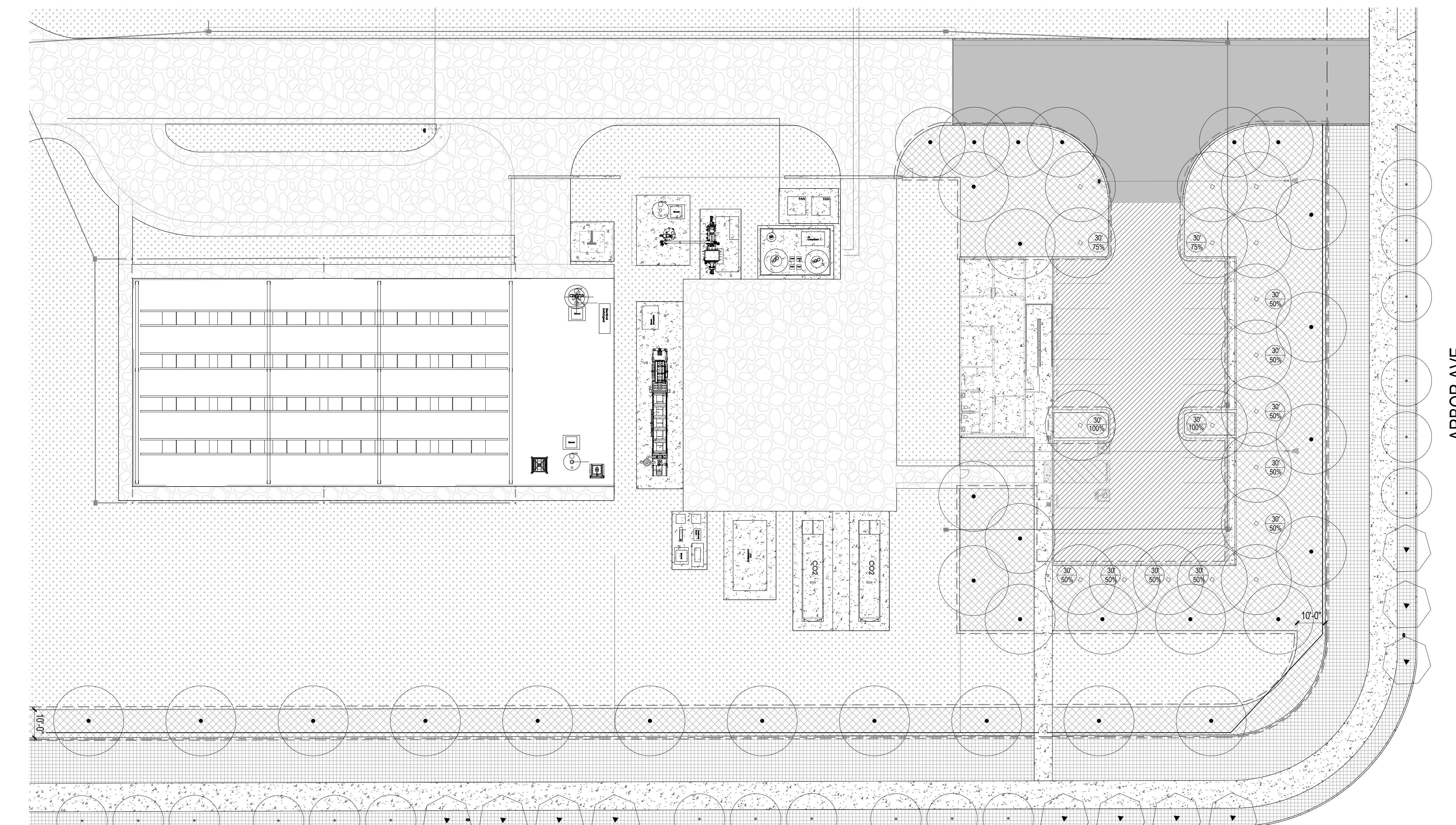
LANDSCAPE MAINTENANCE NOTES  
1. ALL PROPOSED SITE LANDSCAPE AREAS OUTSIDE THE CITY RIGHT-OF-WAY AND WITHIN THE LIMIT OF WORK SHALL BE MAINTAINED BY THE OWNER.

PLANTING NOTES  
1. LANDSCAPE WILL UTILIZE LOW AND MEDIUM WATER USE PLANT MATERIAL (SEE LEGEND)  
2. 3" LAYER BARK MULCH TO BE APPLIED TO ALL SHRUB AND GROUNDCOVER AREAS (WALKABLE, MEDIUM-SIZED BARK TO BE USED)  
3. PROPOSED TREE LOCATIONS ARE BASED ON PROPOSED UTILITY AND HARDCAPE LOCATIONS. TREE LOCATIONS SHOWN ARE INTENDED TO DETERMINE THE MINIMUM TREES REQUIRED TO MEET THE 50% SHADE COVERAGE PER CITY OF TRACY LANDSCAPE ORDINANCE REQUIREMENTS. FINAL TREE LOCATIONS TO BE DETERMINED WHEN FINAL UTILITY LOCATIONS ARE PROVIDED. TREE PLACEMENT MAY BE ADJUSTED IN THE FIELD BY LANDSCAPE ARCHITECT BUT TREE QUANTITIES AROUND PAVED PARKING LOT AREAS ARE TO REMAIN AS SHOWN.  
4. TREE SYMBOLS ARE SHOWN AT ROUGHLY 85% MATURE SIZE TO DETERMINE SUFFICIENT ROOM FOR VIGOROUS TREE GROWTH AND HEALTH.  
5. NO UNDERSTORY PLANTING WITHIN 4' OF ANY TREE TRUNKS.

LANDSCAPE CALCULATIONS  
TOTAL NEW PARKING AREA: 6,948 SF  
NO. OF STANDARD NEW AUTO PARKING SPACES: 21 TOTAL  
TREES PROVIDED = 15 (1/5 PER PARKING SPACE MINIMUM PER TRACY MUNICIPAL CODE)  
PARKING AREA LANDSCAPE REQUIRED = 695 SF (10% OF PARKING AREA)  
PARKING AREA SHADE = 2,780 SF (MIN. 40% OF PARKING AREA)  
PARKING AREA SHADE PROVIDED AT 85% MASTURITY = 3,920 SF (56%)

WATER EFFICIENT LANDSCAPE REQUIREMENTS  
1. AUTOMATIC CONTROLLER W/EAT DATA, REPEAT CYCLING  
2. IRRIGATION ZONES PER PLANT WATER REQUIREMENTS, SEE LEGEND AND NOTES  
3. HUNTER MINI-CLIK RAIN SENSORS/SOIL MOISTURE SENSOR TO BE SPECIFIED  
4. SOIL AMENDMENTS TO BE INCORPORATED  
5. WATER USAGE TO MEET STATE WATER EFFICIENT LANDSCAPE STANDARD

IRRIGATION NOTES  
1. SITE IRRIGATION DESIGN WILL COMPLY WITH CITY OF TRACY WATER EFFICIENT LANDSCAPE ORDINANCE (WELO) REQUIREMENTS.  
2. IRRIGATION CONTRACTOR TO PROVIDE PLAN SHOWING POINT OF CONNECTION, BACKFLOW AND CONTROLLER LOCATION ALONG WITH ALL OTHER NECESSARY CALCULATIONS.  
3. PLANTING IRRIGATION TO MAINTAIN 100% HEAD TO HEAD COVERAGE OF NEW PLANTING AREAS.  
4. ALL TREES, SHRUBS AND GROUNDCOVER TO BE IRRIGATED WITH LOW-FLOW ROTARY SPRAY NOZZLE TECHNOLOGY, POINT SOURCE BUBBLERS AND/OR DRIP EMMITTERS.



1 PLANTING PLAN

1" = 20'-0"

HOLLY DRIVE

0' 5' 10' 20'

## LEGEND - SITE PLAN

— - - - -	PROPERTY LINE
— - - - -	ACCESSIBLE PATH OF TRAVEL
— - - - -	EGRESS PATH OF TRAVEL
▨▨▨▨	AREA NOT IN SCOPE
▨▨▨▨▨▨	COVERED AREA OVER EQUIPMENT ENCLOSURE
▨▨▨▨▨▨▨▨	LANDSCAPING, REFER TO LANDSCAPE DRAWINGS
▨▨▨▨▨▨▨▨	CONCRETE PAVING & SIDEWALK, REFER TO CIVIL DRAWINGS
▨▨▨▨▨▨▨▨	COMPACTED AGGREGATE BASE, REFER TO CIVIL DRAWINGS
▨▨▨▨▨▨▨▨	ASPHALT PAVEMENT, REFER TO CIVIL DRAWINGS
▨▨▨▨▨▨▨▨	FIRE EQUIPMENT ACCESS
— - - - -	CHAIN LINK FENCING

PROJECT  
PILOT PLANT PROJECT

LOCATION  
4750 S HOLLY DRIVE,  
TRACY, CA 95304

PREPARED FOR  
HEIRLOOM CARBON  
TECHNOLOGIES

NO.	DESCRIPTION
1.01	(E) FIRE HYDRANT
1.02	FUTURE FIRE HYDRANT BY OTHERS
1.03	FIRE HYDRANT, REFER TO CIVIL DRAWINGS
1.04	TRANSFORMER
1.08	VAN ACCESSIBLE PARKING STALL, REFER TO CIVIL DRAWINGS
1.09	TOW AWAY PARKING SIGN, REFER TO CIVIL DRAWINGS
1.10	ACCESSIBLE PARKING SIGN, REFER TO CIVIL DRAWINGS
1.11	STREET AND BUILDING NUMBER AFFIXED TO OFFICE TRAILER
1.12	3'-0"W CHAIN LINK GATE
1.14	20'-0"W CHAIN LINK ROLLING GATE
1.15	10'-0"H CHAIN FENCING
1.16	40'-0"H CHAIN LINK FENCING TO BOTTOM OF ROOF
1.17	HOUSEKEEPING EQUIPMENT PAD, TYP. REFER TO STRUCTURAL DRAWINGS
1.18	OUTLINE OF INDUSTRIAL EQUIPMENT, TYP.
1.19	MODIFY EXISTING FENCING TO INCLUDE PEDESTRIAN GATE
1.20	20'-0"H CHAIN LINK FENCING TO BOTTOM OF ROOF
1.21	CLEAN AIR / VAN POOL / EV PARKING STALL
1.22	TRUNCATED DOMES, REFER TO CIVIL
1.23	ACCESSIBLE RAMP BY TRAILER MANUFACTURER, DEFERRED SUBMITTAL
1.24	KNOX PADLOCK FOR ROLLING GATE
2.21	LOCATION OF "NO SMOKING WITHIN 25" SIGN

DESIGN PARTNER  
JS  
PROJECT MANAGER  
SB  
PROJECT ARCHITECT  
AH  
PROJECT DESIGNER  
JS  
PROJECT TEAM MEMBERS  
-  
CHECK  
KB

## SHEET KEYNOTES

NO.	DESCRIPTION
1.01	(E) FIRE HYDRANT
1.02	FUTURE FIRE HYDRANT BY OTHERS
1.03	FIRE HYDRANT, REFER TO CIVIL DRAWINGS
1.04	TRANSFORMER
1.08	VAN ACCESSIBLE PARKING STALL, REFER TO CIVIL DRAWINGS
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1.24	KNOX PADLOCK FOR ROLLING GATE
2.21	LOCATION OF "NO SMOKING WITHIN 25" SIGN

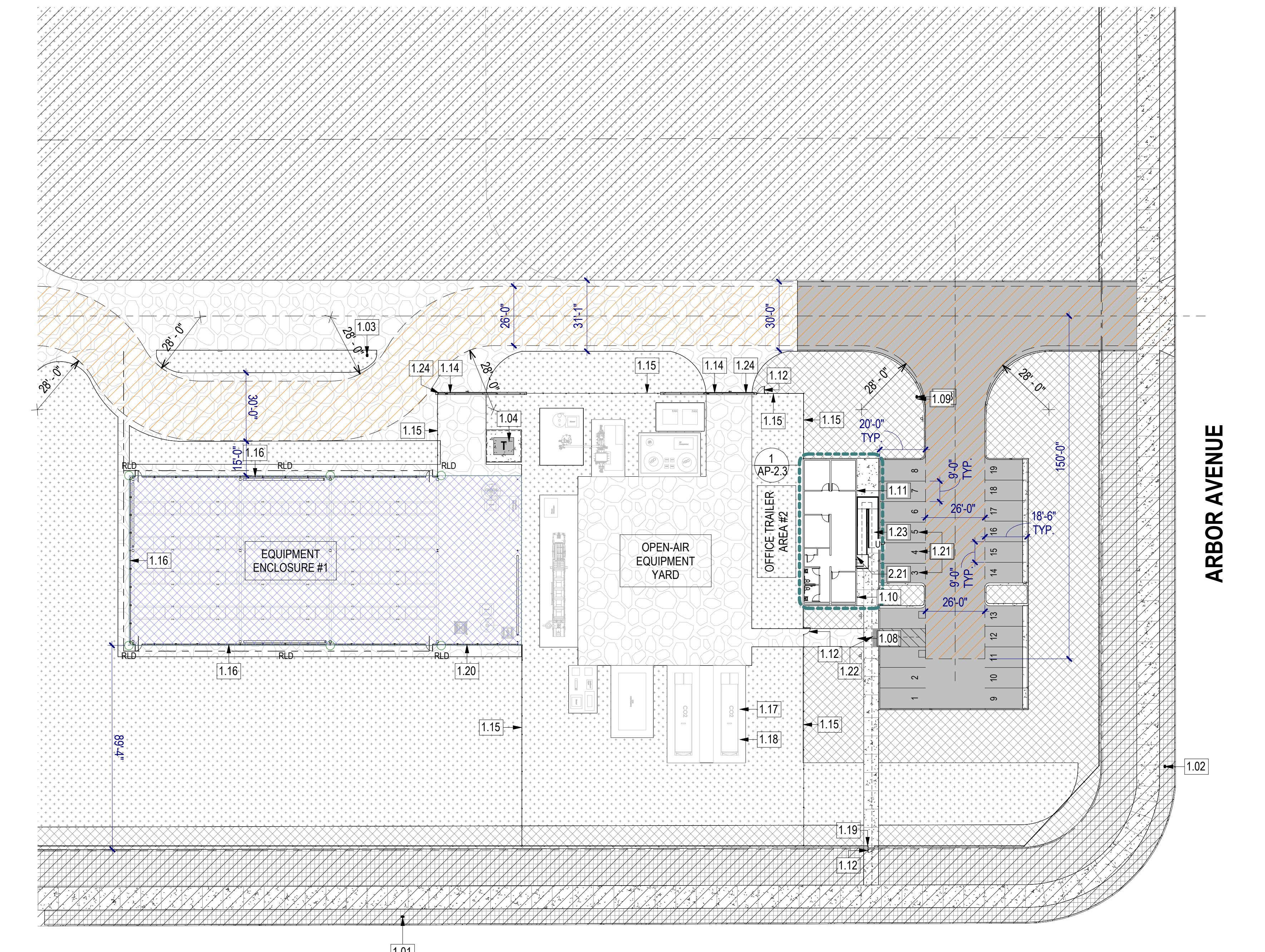
## LAND USE TABULATION

PARKING AREA & SERVICE DRIVE: 13,000 SF  
PEDESTRIAN PATHWAYS: 3,714 SF  
CONDITIONED BUILDING AREA (TRAILER): 1502 SF  
EQUIPMENT ENCLOSURE: 12,750 SF  
OPEN AIR EQUIPMENT YARD: 25,600 SF  
TOTAL SITE AREA: 2.2 ACRES (96,333 SF)

TITLE  
ARCHITECTURAL SITE  
PLAN

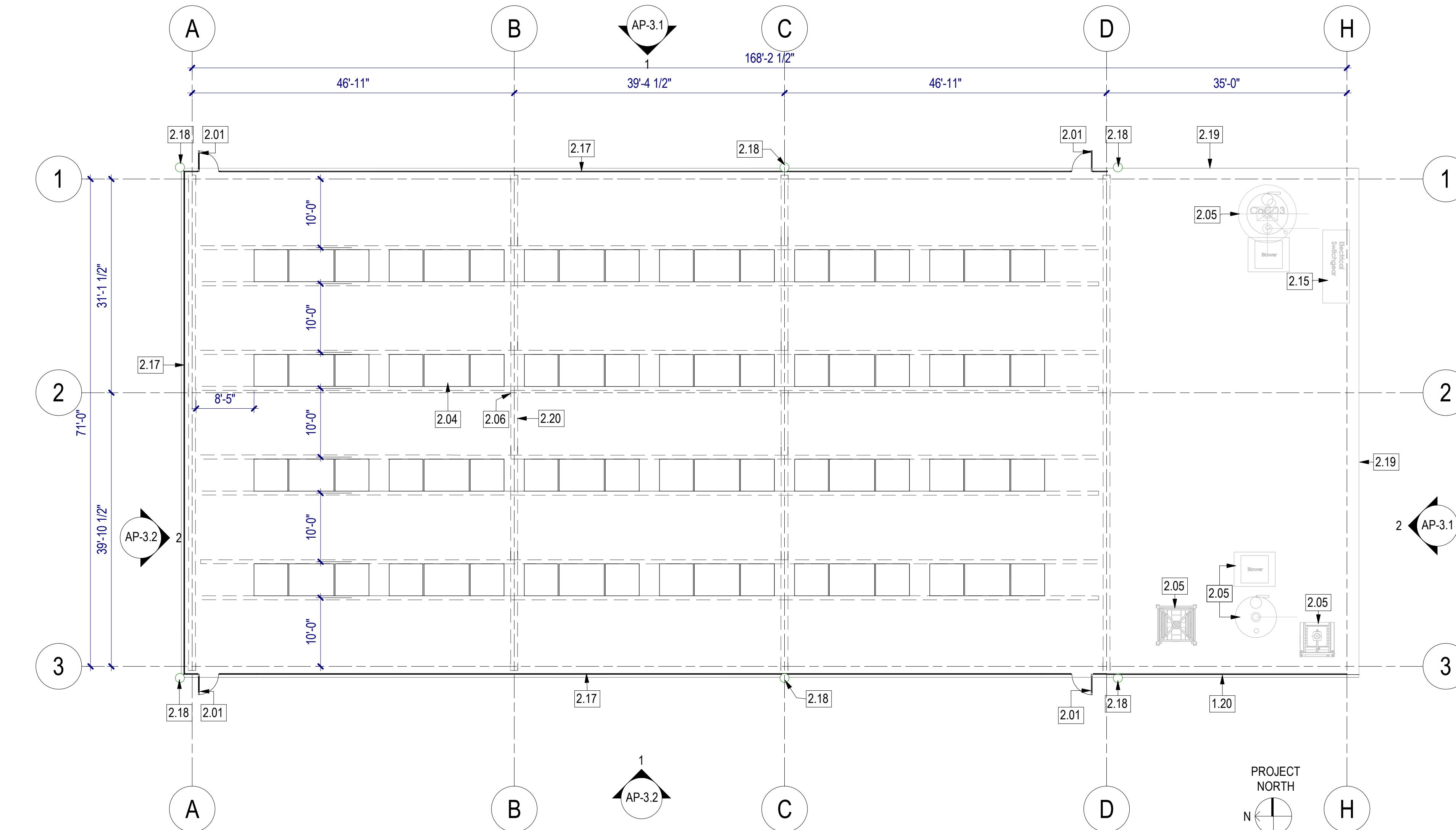
PROJECT NO.  
2229800  
DATE  
09/06/22

ORIGINAL SHEET SIZE 24" x 36"  
SHEET NUMBER  
AP-1.0  
HEIRLOOM UNO  
© 2016 MITHUN, INC.



# SHEET KEYNOTES

SHEET KEYNOTES	
NO.	DESCRIPTION
1.20	20'-0"H CHAIN LINK FENCING TO BOTTOM OF ROOF
2.01	3'-0"W CHAIN LINK SWING GATE, REFER TO SHEET A3.5 FOR DETAILS
2.04	PROPRIETARY EQUIPMENT RACKS, FULL HEIGHT OF STRUCTURE, TYP.
2.05	INDUSTRIAL EQUIPMENT, TYP.
2.06	STRUCTURAL STEEL COLUMNS, TYP. REFER TO STRUCTURAL DRAWINGS
2.15	ELECTRICAL SWITCHGEAR
2.17	40'-0"H CHAIN LINK FENCING TO BOTTOM OF ROOF
2.18	DOWNSPOUT PER SMACNA STANDARD, CONNECT TO STORMWATER SYSTEM, REFER TO CIVIL
2.19	OPEN SIDE TO ADJACENT EQUIPMENT YARD
2.20	OUTLINE OF STRUCTURAL STEEL BEAM ABOVE, TYP. REFER TO STRUCTURAL DRAWINGS



## 1 PRELIMINARY LEVEL 01 - FLOOR PL

3/3

**TITLE**  
**PRELIMINARY FLOOR  
PLAN - EQUIPMENT  
ENCLOSURE**

PROJECT NO.  
**2229800**  
DATE  
**09/06/22**

SHEET NUMBER  
**AP-2**  
HEIRLOOM UNO  
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## SHEET KEYNOTES

NO.	DESCRIPTION
2.50	CORRUGATED METAL DECKING, TYP. REFER TO STRUCTURAL DRAWINGS; SEALANT AT EACH JOINT & DECK OVERLAP
2.51	OUTLINE OF GUTTER, PER SMACNA STANDARD, 1/8" SLOPE TO DOWNSPOUT
2.52	DOWNSPOUT PER SMACNA STANDARD, CONNECT TO STORMWATER SYSTEM, REFER TO CIVIL
2.53	WELD DRIP EDGE TO BOTTOM OF EDGE OF DECK OVER GUTTER
2.54	RIDGE PLATE FLASHING, FASTEN TO TOP OF RIDGE JOINT

PROJECT  
PILOT PLANT PROJECTLOCATION  
4750 S HOLLY DRIVE,  
TRACY, CA 95304PREPARED FOR  
HEIRLOOM CARBON  
TECHNOLOGIES

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<b>SHEET KEYNOTES</b>	
<b>NO.</b>	<b>DESCRIPTION</b>
1.11	STREET AND BUILDING NUMBER AFFIXED TO OFFICE TRAILER
2.21	LOCATION OF "NO SMOKING WITHIN 25" SIGN
3.02	WOOD BATTEN MATERIAL PROVIDED BY THE TRAILER MANUFACTUER
3.03	WOOD BATTEN SKIRT AROUND TRAILER WHEELS PROVIDED BY THE TRAILER MANUFACTURER
3.04	EXTERIOR AIR CONDITIONING UNIT PROVIDED BY THE TRAILER MANUFACTURER

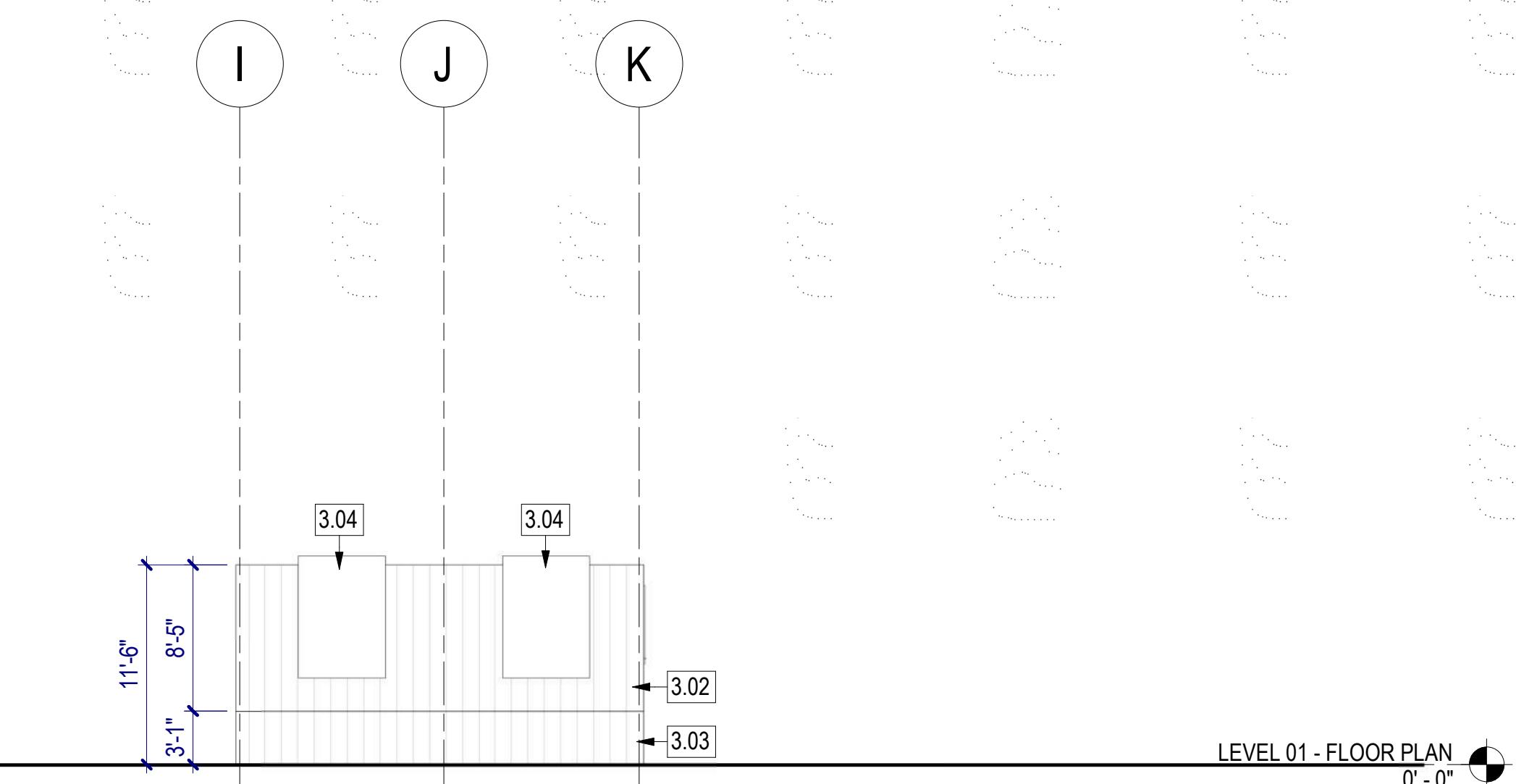
## 2 PRELIMINARY OFFICE ELEVATION - NORT

2 1/8" = 1'-0"



## **3 PRELIMINARY OFFICE ELEVATION - EAST**

1/8" = 1'-0"



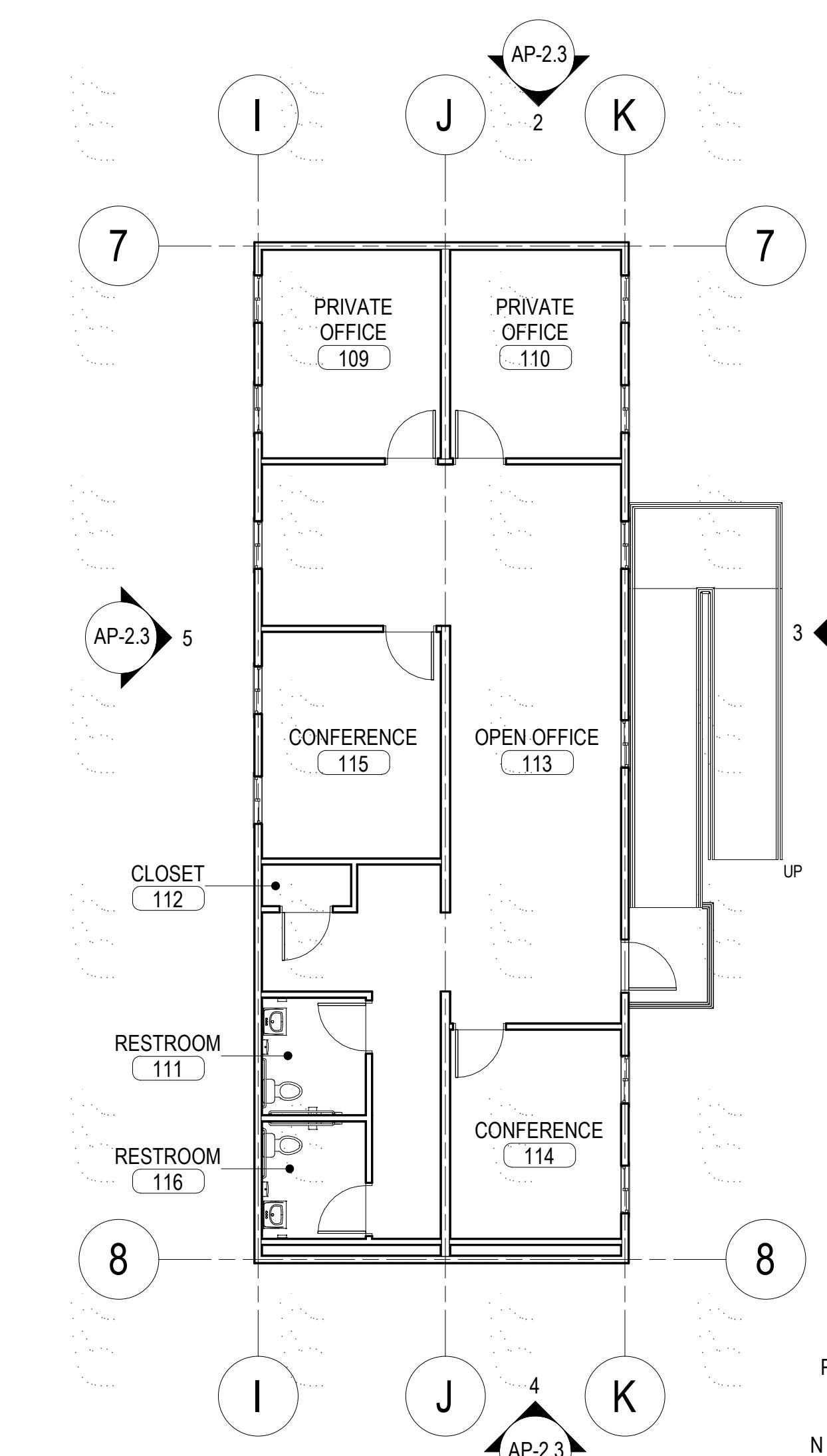
## 4 PRELIMINARY OFFICE ELEVATION - SOUT

1/8" = 1'-0"



## 5 PRELIMINARY OFFICE ELEVATION - WE

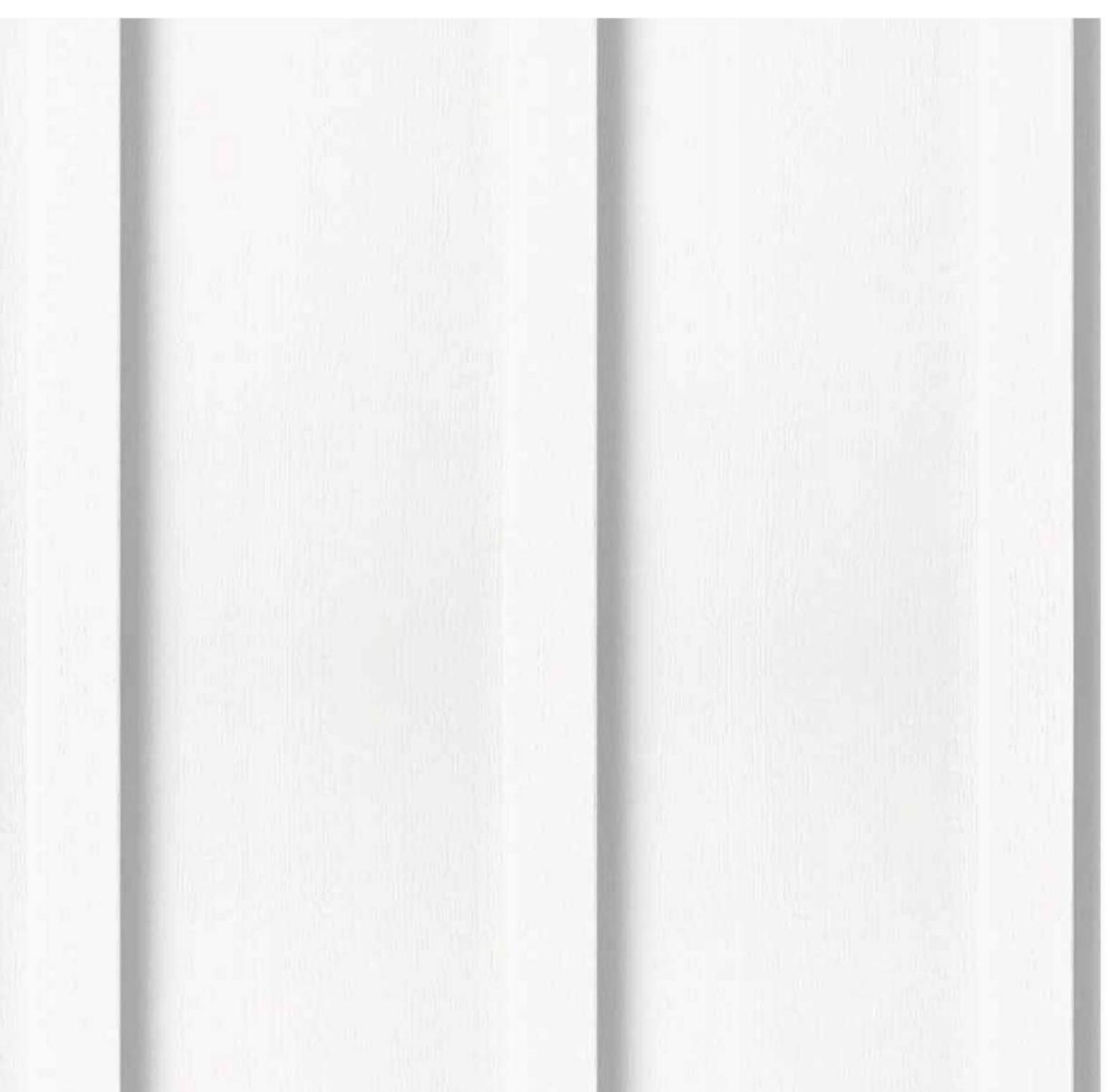
5 1/8" = 1'-0"



# 1 PRELIMINARY ENLARGED FLOOR PLAN - OFFICE TRAILER

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1/8" = 1'-0"



# WHITE BATTEN BOARD SIDING

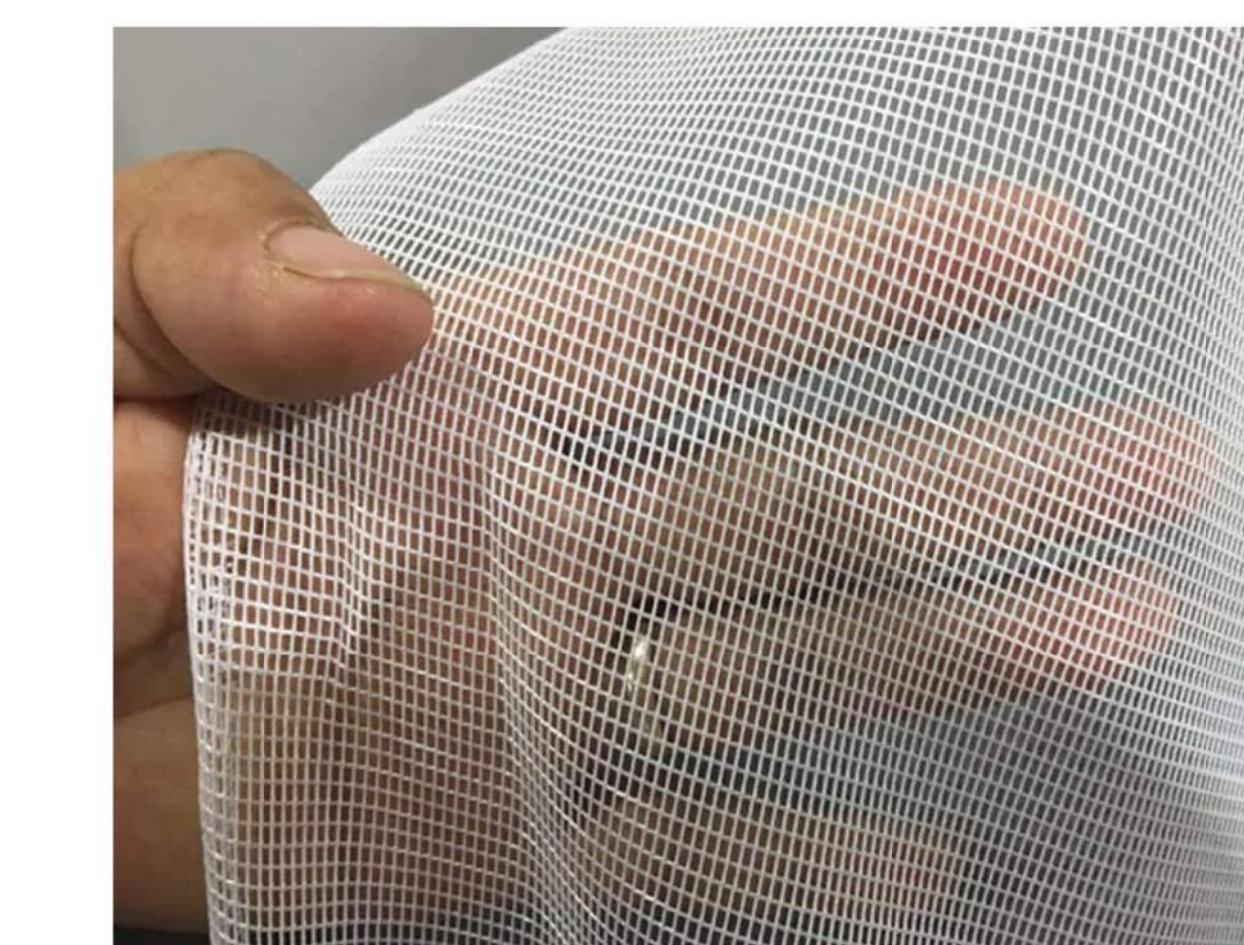
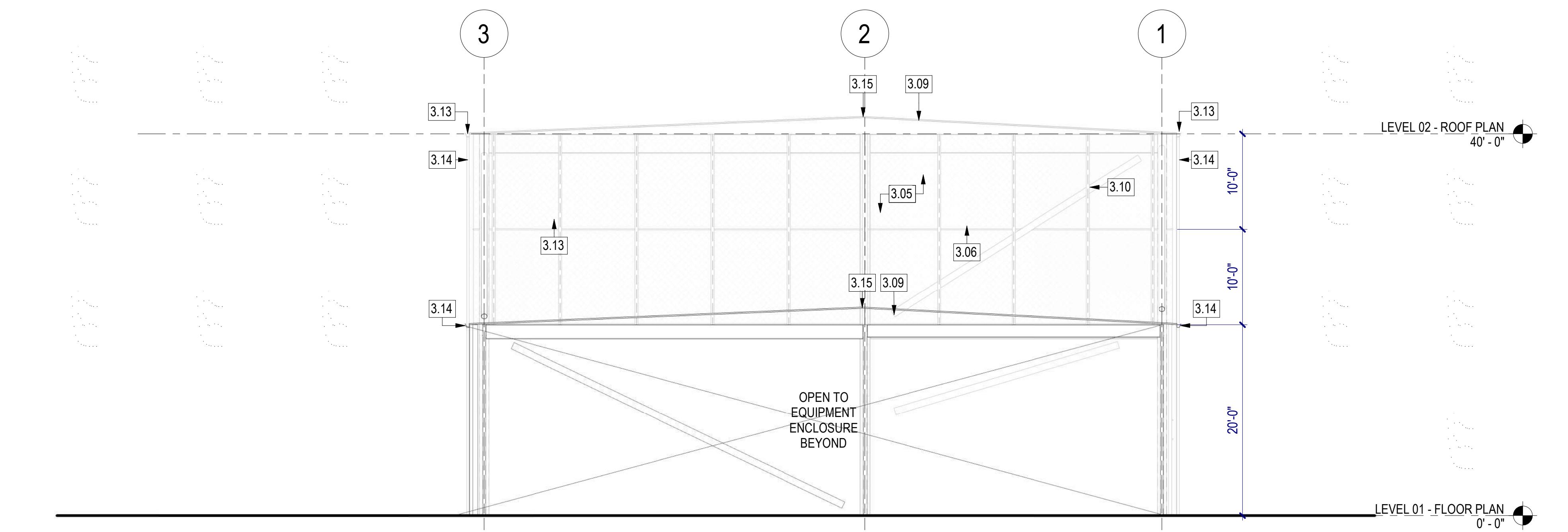
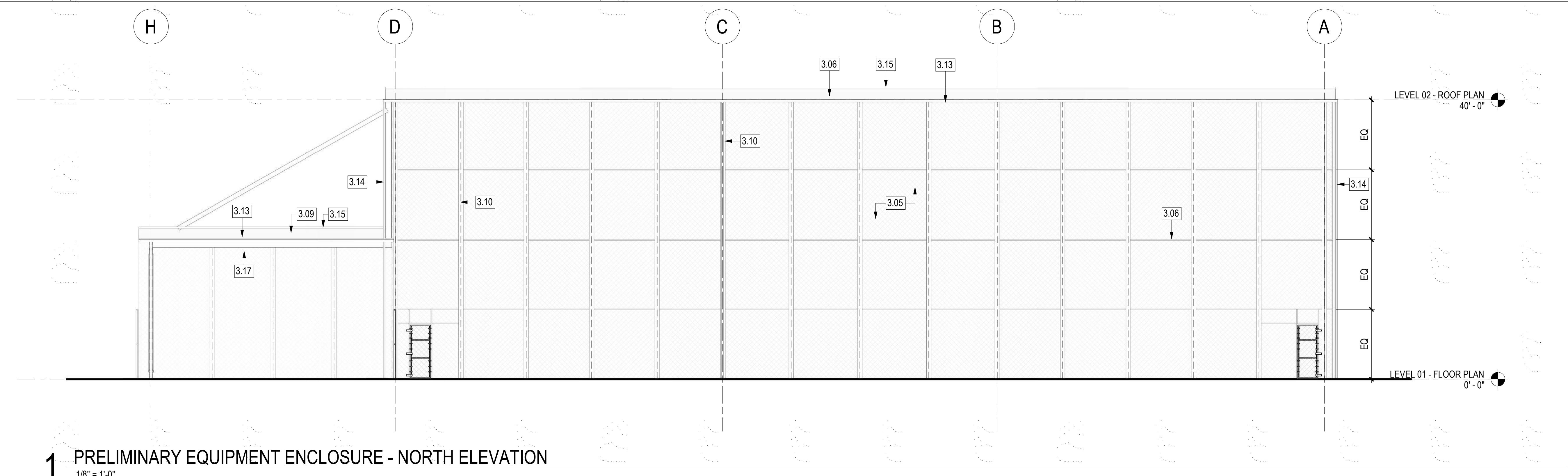
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PROJECT  
PILOT PLANT PROJECT

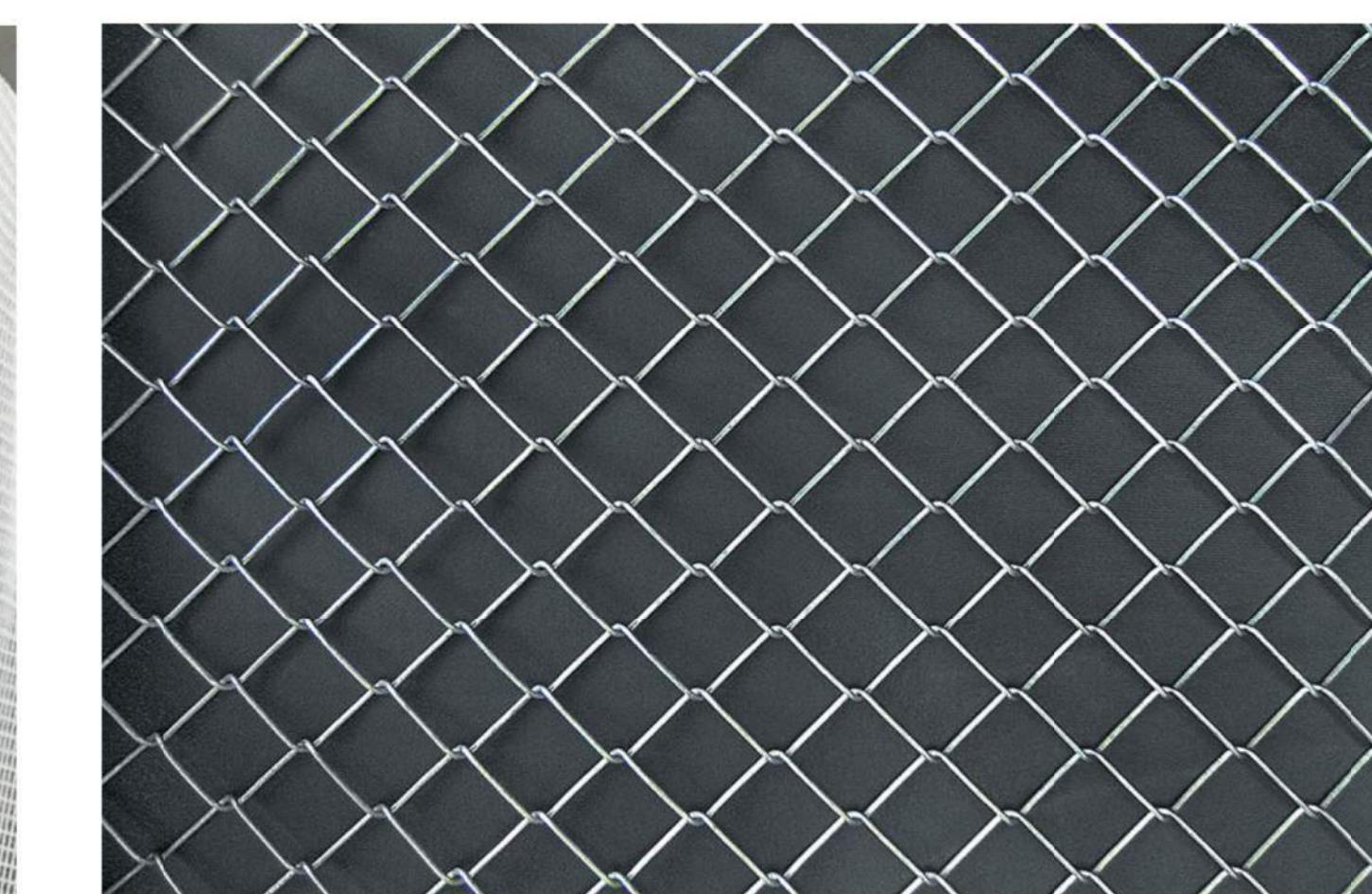
LOCATION  
4750 S HOLLY DRIVE,  
TRACY, CA 95304

PREPARED FOR  
HEIRLOOM CARBON  
TECHNOLOGIES

NO. DATE  
REVISION  
DESIGN PARTNER  
JS  
PROJECT MANAGER  
SB  
PROJECT ARCHITECT  
AH  
PROJECT DESIGNER  
JS  
PROJECT TEAM MEMBERS  
-  
CHECK  
KB



WHITE SCREENING FABRIC, 85% OPEN  
FABRIC TESTED UNDER NFPA 701 FOR FLAMMABILITY OF A TEXTILE



GALVANIZED CHAIN LINK

SHEET KEYNOTES	
NO.	DESCRIPTION
3.05	2X2 CHAIN-LINK WITH SCREENING FABRIC, TYP.
3.06	1-5/8" DIAMETER MIDDLE RAIL, TYP.
3.09	OUTLINE OF ROOF, REFER TO SHEET A.2
3.10	STEEL CHANNEL COLUMNS, REFER TO STRUCTURAL
3.13	OUTLINE OF GUTTER, PER SMACNA STANDARD, 1/8" SLOPE TO DOWNSPOUT
3.14	DOWNSPOUT, PER SMACNA STANDARD, CONNECT TO STORMWATER SYSTEM
3.15	RIDGE PLATE FLASHING, FASTEN TO TOP OF RIDGE JOINT
3.17	OUTLINE OF SECURITY FENCE BEYOND

TITLE  
PRELIMINARY EXTERIOR  
ELEVATIONS -  
EQUIPMENT ENCLOSURE

PROJECT NO. 2229800  
DATE 09/06/22

ORIGINAL SHEET SIZE 24" x 36"  
HEIRLOOM UNO  
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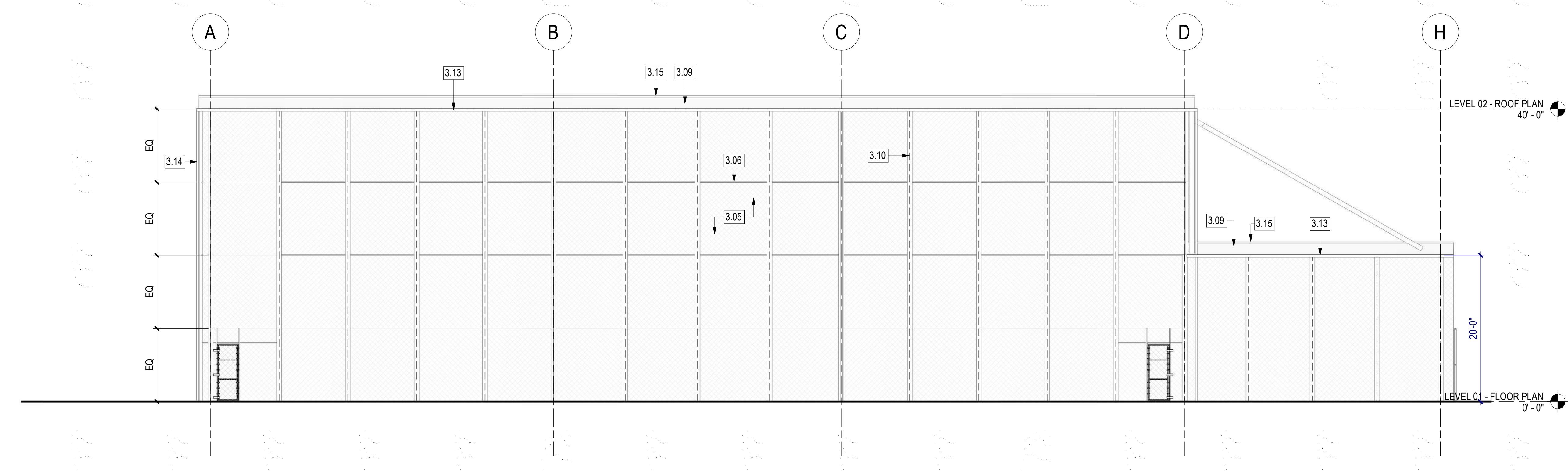
AP-3.1

PROJECT  
**PILOT PLANT PROJECT**

LOCATION  
**4750 S HOLLY DRIVE,  
TRACY, CA 95304**

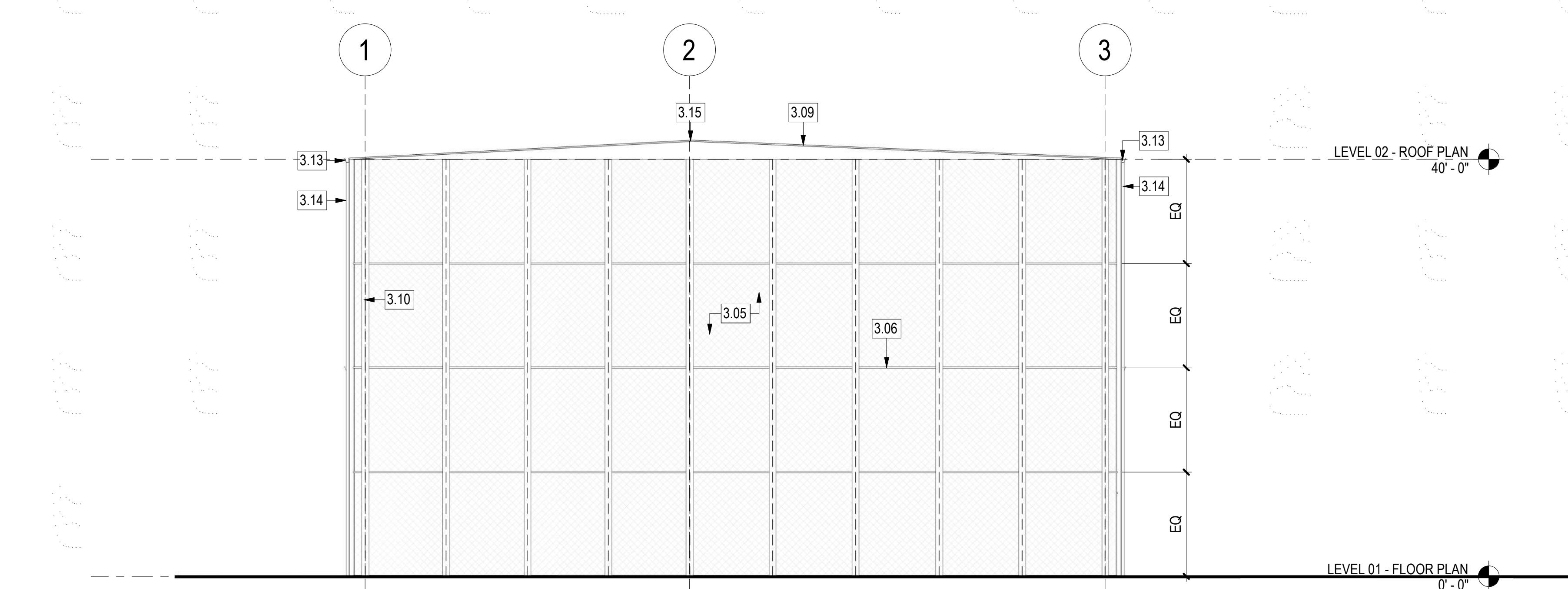
PREPARED FOR  
**HEIRLOOM CARBON  
TECHNOLOGIES**

NO. DATE  
REVISION  
DESIGN PARTNER  
JS  
PROJECT MANAGER  
SB  
PROJECT ARCHITECT  
AH  
PROJECT DESIGNER  
JS  
PROJECT TEAM MEMBERS  
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CHECK  
KB



**1 PRELIMINARY EQUIPMENT ENCLOSURE - SOUTH ELEVATION**

1/8" = 1'-0"



**2 PRELIMINARY EQUIPMENT ENCLOSURE - WEST ELEVATION**

1/8" = 1'-0"

SHEET KEYNOTES	
NO.	DESCRIPTION
3.05	2X2 CHAIN-LINK WITH SCREENING FABRIC, TYP.
3.06	1-5/8" DIAMETER MIDDLE RAIL, TYP.
3.09	OUTLINE OF ROOF, REFER TO SHEET A2.2
3.10	STEEL CHANNEL COLUMNS, REFER TO STRUCTURAL
3.13	OUTLINE OF GUTTER, PER SMACNA STANDARD, 1/8" SLOPE TO DOWNSPOUT
3.14	DOWNSPOUT, PER SMACNA STANDARD, CONNECT TO STORMWATER SYSTEM
3.15	RIDGE PLATE FLASHING, FASTEN TO TOP OF RIDGE JOINT

PRELIMINARY EXTERIOR  
ELEVATIONS -  
EQUIPMENT ENCLOSURE

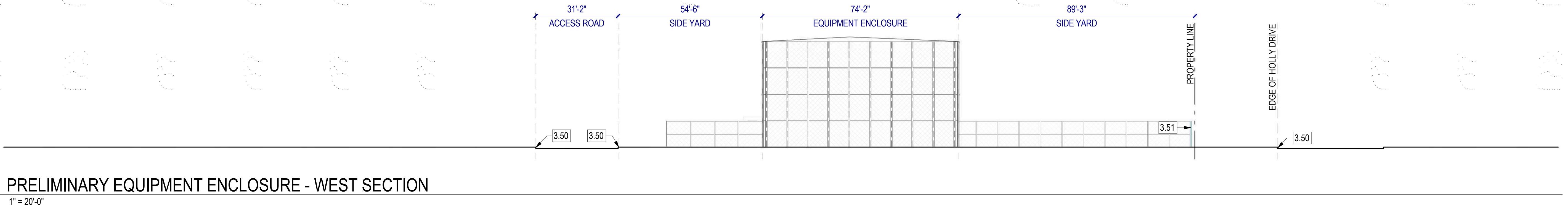
PROJECT NO.  
2229800  
DATE  
09/06/22

ORIGINAL SHEET SIZE 24" x 36"  
HEIRLOOM UNO  
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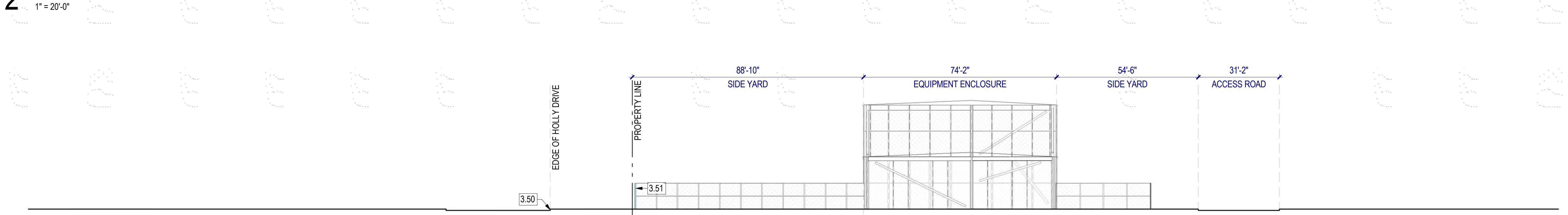
**AP-3.2**

NO.	DATE
JS	
DESIGN PARTNER	
SB	
PROJECT MANAGER	
SA	
PROJECT ARCHITECT	
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PROJECT TEAM MEMBERS	
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KB	

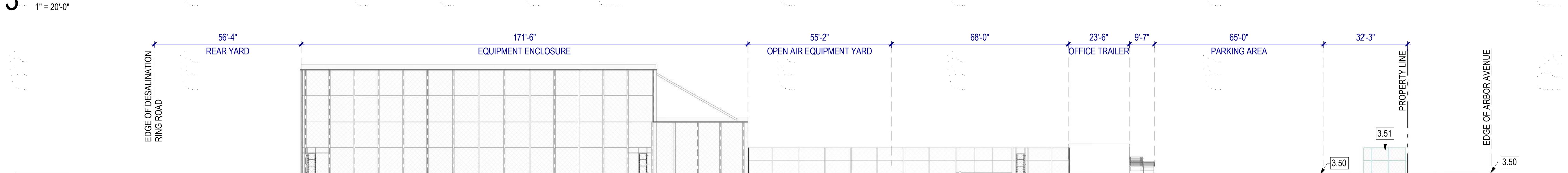
## 1 PRELIMINARY EQUIPMENT ENCLOSURE - WEST SECTION



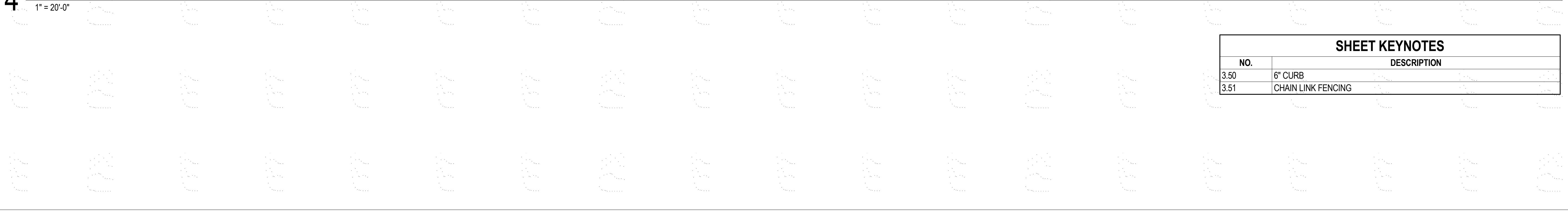
## 2 PRELIMINARY EQUIPMENT ENCLOSURE - NORTH SECTION



## 3 PRELIMINARY EQUIPMENT ENCLOSURE - EAST SECTION



## 4 PRELIMINARY EQUIPMENT ENCLOSURE - SOUTH SECTION



SHEET KEYNOTES	
NO.	DESCRIPTION
3.50	6" CURB
3.51	CHAIN LINK FENCING

TITLE  
BUILDING SECTION  
ELEVATIONS

PROJECT NO.  
2229800  
DATE  
09/06/22

ORIGINAL SHEET SIZE 24" x 36"  
SHEET NUMBER  
AP-3.5  
HEIRLOOM UNO  
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## What the Heirloom process looks like

**Contactors** support vertical stacks of trays to expose Calcium Hydroxide to the atmosphere for CO<sub>2</sub> capture. Calcium Hydroxide turns into Calcium Carbonate as it absorbs CO<sub>2</sub>

**Fully Enclosed Pipelines** and vacuums move material between stages of processing

**Rotary kiln** releases CO<sub>2</sub> from calcium carbonate through calcination (heat). This produces calcium oxide and CO<sub>2</sub>

**Hydrator** mixes calcium oxide with water to form calcium hydroxide. This is sent back to the contactors.

**Compressor** reduces the volume of CO<sub>2</sub> coming from the kiln for efficient storage

**Cold Storage** collects up to 30 tons of compressed CO<sub>2</sub> for 2x monthly transport

**Fully Enclosed Storage Silos** store buffer material between operations



[See our technology animation here](#)

ADDENDUM  
TO THE  
INITIAL STUDY AND MITIGATED NEGATIVE DECLARATION  
FOR THE  
TRACY DESALINATION AND GREEN ENERGY PROJECT

SCH# 2011122004

DECEMBER 2022

*Prepared for:*

City of Tracy  
Development Services Department  
Planning Division  
333 Civic Center Plaza  
Tracy, CA 95376

*Prepared by:*

De Novo Planning Group  
1020 Suncast Lane, Suite 106  
El Dorado Hills, CA 95762  
(916) 580-9818

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## 1.0 INTRODUCTION

This environmental document is an Addendum to the Tracy Desalination and Green Energy Project Initial Study/Mitigated Negative Declaration (IS/MND), SCH # 2011122004, GPA 11-0004 and A/P 11-0001. The project and the IS/MND for this project were approved and adopted by the City of Tracy City Council on May 1, 2012. Since certification and adoption of the IS/MND, the project plans have been slightly modified, requiring the need for further environmental analysis, as contained in this document.

### 1.1 BACKGROUND

The Tracy Desalination and Green Energy Project IS/MND (SCH# 2011122004) was completed and circulated for public review and comment in December 2011. The IS/MND evaluated potential impacts associated with annexation of the site to the City of Tracy, a General Plan Amendment to designate the site Industrial, rezoning of the site to Industrial, and impacts associated with the construction and operation of a 1.2 million gallons per day (MGD) desalination plant and biomass electricity generation facility. The IS/MND addressed the full range of environmental topics included in Appendix G of the CEQA Guidelines, including: aesthetics, agricultural and forest resources; air quality; biological resources; cultural resources; geology and soils; greenhouse gas emissions; hazards and hazardous materials; hydrology and water quality; land use and planning; mineral resources; noise; population and housing; public services; recreation; transportation and traffic; utilities and service systems; and cumulative impacts.

All environmental impacts addressed in the IS/MND have been mitigated to below a level of significance through implementation of mitigation measures.

Since certification of the IS/MND and approval of the project on May 1, 2012, the project has undergone minor revisions related to the addition of a carbon dioxide removal facility within a small portion of the project site. These revisions are described in Section 2.0 of this document, and are the subject of this Addendum.

### 1.2 PURPOSE OF THE ADDENDUM

When a proposed project is changed after project approval and certification of an environmental document prepared under CEQA, a determination must be made by the Lead Agency as to whether an Addendum or a Subsequent MND is prepared. Criteria, as set forth in CEQA Guidelines Section 15162, are used to assess which environmental document is appropriate. The criteria for determining whether an Addendum or Subsequent MND is prepared are outlined below. If the criteria below are true and applicable to the project, then an Addendum is the appropriate environmental document.

1. No new significant impacts will result from the project or from new mitigation measures.
2. No substantial increase in the severity of an environmental impact will occur.
3. No new feasible alternatives or mitigation measures that would reduce impacts previously found not to be feasible have, in fact, been found to be feasible.

Based upon the information provided in Section 3.0 of this document, the proposed revisions to the previously approved Tracy Desalination and Green Energy Project will not result in new significant impacts or substantially increase the severity of impacts previously identified in the IS/MND, and there are no previously infeasible alternatives that are now feasible. Therefore, an Addendum is appropriate, and this Addendum has been prepared to address the environmental effects of the revisions to the project.

### **1.3 CONCLUSIONS**

This addendum addresses the environmental effects associated with the revisions to the Tracy Desalination and Green Energy project that have occurred since certification of the IS/MND and approval of the project on May 1, 2012. The conclusions of the analysis in this Addendum are not substantially different from those made in the IS/MND. The same impacts identified in the IS/MND remain, and have been mitigated to a less-than-significant level, as identified in the IS/MND. No new significant impacts would result, and no substantial increase in the severity of impacts from those previously identified in the IS/MND would occur. This Addendum has been prepared consistent with the requirements of Section 15162 and 15164 of the CEQA Guidelines.

## **2.0 PROJECT DESCRIPTION**

### **2.1 PROJECT LOCATION AND SETTING**

The location and setting of the project has not changed. The project site consists of approximately 241 acres previously located within the City's Sphere of Influence, immediately north of the Tracy City limits. The project site includes APN 212-160-05, APN 212-160-09, and portions of APN 212-160-11. Annexation of the project site into the City of Tracy was approved by the San Joaquin LAFCO on August 17, 2012.

The project site is bounded by Tracy Boulevard to the west, Arbor Avenue and industrial uses to the south, and agricultural lands to the north. Agra Trading, a biomass fuel recycling and trading company, is located on a portion of the project site. The site is bisected by West Sugar Road, which runs in an east-west direction.

The northern and western boundaries of the project site are adjacent to agricultural lands in active agricultural production. The southern boundary of the project site is adjacent to primarily industrial uses with some commercial uses. These uses include, but are not limited to a mini-storage facility, an equipment rental facility, and automotive repair facilities. The City of Tracy Wastewater Treatment Plant (WWTP) is located immediately southeast of the project site. Lands to the east of the project site are currently used for industrial operations. An existing rail spur is located immediately east of the project site and terminates on the project site.

### **2.2 PROJECT REVISIONS SINCE IS/MND CERTIFICATION**

The project analyzed in the December 2011 IS/MND, which was certified on May 1, 2012, consists of a 1.2 MGD desalination plant that would treat treated wastewater from the adjacent Tracy Wastewater Treatment Plant (WWTP) to reduce salinity levels in the treated wastewater. The

desalinated wastewater would then be blended back into the remaining treated effluent at the WWTP prior to discharge into the Delta.

The revised project would add a carbon dioxide removal facility to a vacant 100,000 square foot area in the southwest corner of the WWTP project site, that would consist of an approximately 12,750-square-foot steel framed structure (equipment enclosure) and a 25,600-square-foot open-air equipment yard. The proposed roof of the equipment enclosure would protect several pieces of integrated equipment. The sides of the equipment enclosure would consist of chain link fencing material and a white screening fabric that would allow air flow. The steel structure would be surrounded by fencing with environmental screening. The facility would remove carbon dioxide (CO<sub>2</sub>) from the air by using a scalable direct air capture technology. Compressed CO<sub>2</sub> would be transported off-site for United States Environmental Protection Agency (EPA)-regulated carbon storage. The proposed direct air capture process would use calcium carbonate (an earth-abundant material), and renewable energy, to capture CO<sub>2</sub> directly from the air.

The carbon dioxide removal process involves (in summary):

- Limestone is spread onto trays to absorb CO<sub>2</sub> from the atmosphere;
- The limestone is heated in a renewable-energy powered kiln for a brief period of time to release the carbon dioxide gas from the limestone; and
- The carbon dioxide gas is transported away to be stored safely and permanently offsite. The limestone can then again be reused to pull more carbon dioxide from the air in what is a closed-loop cycle.

The proposed facility would not emit odors, and there would be an integral dust control system that would continuously monitor the moisture content of the substrate and would spray the material with water when the moisture content approaches 5% (to prevent material loss to the air).

Approximately sixteen staff personnel would work out of a portable office trailer located nearby. The project is a pilot installation with an anticipated useful life and tenancy of three years. The carbon dioxide removal facility would require approximately one truck trip each week to pick up the compressed CO<sub>2</sub>, and one truck trip every three months to exchange the used limestone with new limestone.

Other than as described above, the revised project includes the construction of a parking area near to the revised project facilities. All other aspects of the project would remain unchanged.

### 3.0 ENVIRONMENTAL ANALYSIS

As explained in Chapter 1.0, this comparative analysis has been undertaken pursuant to the provisions of CEQA Guidelines Sections 15162 and 15164 to provide the City with the factual basis for determining whether any changes to the project, any changes in circumstance, or any new information since the IS/MND was certified on May 1, 2012 require additional

environmental review or preparation of a Subsequent MND. The environmental analysis and mitigation measures provided in the IS/MND remain current and applicable to the proposed project in areas and aspects of the project unaffected by the project revisions identified in Chapter 2.0 of this Addendum.

### *AESTHETICS*

The proposed project changes would not result in any new or altered impacts with respect to aesthetics and visual resources. Although the proposed project changes would add an approximately 12,750-square-foot steel framed structure and a 25,600-square-foot equipment yard, the proposed project changes would blend into the project already analyzed, and would not generate any new aesthetics impacts. The IS/MND requires the implementation of Mitigation Measure 1, which requires the preparation and implementation of a lighting plan to reduce light spillage and nighttime lighting impacts. This Mitigation Measure would still be required and enforced. No new mitigation measures are required for the project revisions.

### *AGRICULTURAL AND FOREST RESOURCES*

The proposed project changes would not result in any new or altered impacts with respect to agricultural and forest resources. The area of disturbance of the project would not change, and the project would not result in any increased impacts to agricultural lands or resources beyond those addressed in the IS/MND. The project would still be subject to the requirements of Mitigation Measure 2, which requires the payment of Agricultural Mitigation Fees to offset the loss of Prime and Unique Farmland that would occur if the future solar array component of the project were constructed. This Mitigation Measure would still be required and enforced. No new mitigation measures are required for the project revisions.

### *AIR QUALITY*

Potential project impacts associated with air quality emissions from operation of the revised project would be extremely similar to what was already analyzed in the project IS/MND, as a result of the proposed project changes.

The carbon dioxide removal facility associated with the revised project would require approximately one truck trip each week to pick up the compressed CO<sub>2</sub>, and one truck trip every three months to exchange the used limestone with new limestone. Additionally, the carbon dioxide removal facility could generate an additional sixteen additional vehicle trips per day. The addition of these vehicle trips do not constitute a significant increase in air emissions, nor would it cause any other air quality impact. Additionally, the energy required to power the carbon dioxide removal facilities would be minimal and would not cause or exacerbate any air quality impacts. Compared to the analysis contained in the IS/MND, the project revisions would not result in significant increased impacts to air quality, or cause a substantial increase in the severity of any air quality impacts. No new mitigation requirements are required for the project revisions.

With respect to the potential for the revised project to generate odors; the proposed facility would not emit odors, and there would be an integral dust control system that would continuously monitor the moisture content of the substrate and would spray the material with

water when the moisture content approaches 5% (to prevent material loss to the air). This change in the proposed project would not result in the increase generation of odors, and this impact is not more severe or significant than what was analyzed in the IS/MND. No new mitigation measures are required for the project revisions.

Construction-related emissions would not change when compared to the project addressed in the IS/MND. The revised project would be subject to the requirements of Mitigation Measures 3 and 4, which require the implementation of best management practices for construction and grading activities, as required by SJVAPCD Rule VIII. No new mitigation measures are required for the project revisions.

#### *BIOLOGICAL RESOURCES*

The footprint of the project and the areas proposed for disturbance would not change from the conditions addressed in the IS/MND. As such, no changes to potential impacts to biological resources would occur as a result of the proposed project revisions compared to the potential impacts described in the IS/MND. The IS/MND requires the project to implement Mitigation Measures 5 and 6, which require the project to obtain coverage under the San Joaquin Multi Species Conservation Plan (SJM SCP), and to ensure that construction activities do not adversely impact burrowing owls. These Mitigation Measures would be required by the project revisions and would reduce potential impacts to a less than significant level, as described in the IS/MND. No new mitigation measures are required for the project revisions.

#### *CULTURAL RESOURCES AND TRIBAL CULTURAL RESOURCES*

The footprint of the project and the areas proposed for disturbance would not change from the conditions addressed in the IS/MND. As such, no changes to potential impacts to cultural resources would occur as a result of the proposed project revisions compared to the potential impacts described in the IS/MND. The IS/MND requires the project to implement Mitigation Measure 7, which includes standard measures that must be implemented if a previously unknown cultural or historical resource is encountered during site grading and construction activities. This Mitigation Measure would be required by the project revisions and would reduce potential impacts to a less than significant level, as described in the IS/MND. No new mitigation measures are required for the project revisions.

#### *GEOLOGY AND SOILS*

The footprint of the project and the areas proposed for disturbance would not change from the conditions addressed in the IS/MND. As such, no changes to potential impacts to geology and soils would occur as a result of the proposed project revisions compared to the potential impacts described in the IS/MND. The IS/MND requires the project to implement Mitigation Measures 8 and 9, which require the project to implement site-specific geotechnical engineering measures in order to comply with the California Building Code to ensure that structures and foundations are designed to meet stability and safety standards. These Mitigation Measures would be required by the project revisions and would reduce potential impacts to a less than significant level, as described in the IS/MND. No new mitigation measures are required for the project revisions.

### *Greenhouse Gases*

Emissions of greenhouse gases (GHGs) would decrease under the proposed project revisions when compared to the originally proposed project. The proposed project revisions include a carbon dioxide (i.e. greenhouse gas) removal facility that would directly remove carbon dioxide (i.e. greenhouse gases) from the air. Additionally, the facility is anticipated to utilize renewable energy for power. Despite modest increases in vehicle trips associated with the revised project as compared to what was analyzed within the IS/MND, it is anticipated that the carbon removal activities would reduce greenhouse gas emissions greater than the greenhouse gases emitted by project activities, thereby yielding a net greenhouse gas reduction. As such, the proposed project revisions are consistent with Statewide efforts to increase the supply of qualified renewable fuel supplies. Given that the proposed project revisions would result in a decreased level of GHGs generated directly from the project when compared to the original project, and the project revisions are consistent with Statewide plans and efforts to increase the availability of renewable fuels, the project revisions would not increase the severity of impacts related to GHGs and climate change. No new mitigation measures are required for the project revisions.

### *HAZARDS AND HAZARDOUS MATERIALS*

The original project addressed in the IS/MND included the use, storage and transport of hazardous materials regulated under the CalARP program, including anhydrous ammonia for use in the Selective catalytic reduction (SCR) system to reduce emissions of nitrogen oxide gas (NOx).

The IS/MND addressed impacts associated with the use, transport and storage of anhydrous ammonia. Anhydrous Ammonia (ammonia) (CAS No. 7664-41-7) is subject to the California Accidental Release Prevention Program (CalARP) regulations (Title 19, CCR, Chapter 4.5), and is regulated as an “extremely hazards material”. The IS/MND included Mitigation Measure 10, which requires the preparation of a Risk Management Plan (RMP) for the use and storage of anhydrous ammonia that meets the requirements of California Health and Safety Code, Division 20, Chapter 6.95, Article 2 and the California Code of Regulation (CCR) Title 19 Division 2, Chapter 4.5, Articles 1 through 11.

The implementation of Mitigation Measure 10, as described in the IS/MND would ensure that any and all chemicals or hazardous materials used at the project site would comply with applicable regulations, through the preparation of a Risk Management Plan and/or Hazardous Materials Business Plan. This mitigation measure is included in the IS/MND and would remain applicable in light of the proposed project changes. Therefore, potential impacts associated with hazardous materials would not substantially increase as a result of the proposed project revisions. No new mitigation measures are required for the project revisions.

### *HYDROLOGY AND WATER QUALITY*

The proposed project revisions would result in the same area of disturbance, project footprint and grading/drainage improvements as what was addressed in the IS/MND. There would be no changes when compared to the originally proposed project. The IS/MND includes Mitigation Measure 11, which requires the preparation of a Stormwater Pollution Prevention Plan (SWPPP) prior to site grading activities in order to protect surface water quality in the project area. This

Mitigation Measures would be required by the project revisions and would reduce potential impacts to a less than significant level, as described in the IS/MND. No new mitigation measures are required for the project revisions.

#### *LAND USE AND PLANNING*

The proposed project revisions would not result in any new or substantially increased impacts related to land use and planning compared to the analysis contained in the IS/MND. The San Joaquin LAFCO has already approved the annexation of the project site into the City of Tracy, and the City has approved the General Plan Amendment to designate the site Industrial and zoned the site Light Industrial. There would be no changes to impacts related to land use and planning beyond those addressed in the IS/MND, and no new mitigation requirements are required for the project revisions.

#### *MINERAL RESOURCES*

The project's footprint and area of disturbance would not change from what was addressed in the IS/MND. The IS/MND determined that the project would not result in any impacts related to mineral resources. No new mitigation measures are required for the project revisions.

#### *NOISE*

There are no existing noise-sensitive land uses adjacent to the project site. The project site is located in an agricultural and industrial area that generally has a relatively high level of ambient background noise throughout the day. There nearest noise sensitive land uses are residences located approximately 0.5 miles to the south of the site.

As described in the IS/MND, the anticipated increase in daily vehicle trips associated with the WWTP would not significantly increase ambient noise levels in the project vicinity and would not result in a violation of any established noise thresholds in the project vicinity.

The revised project would add new activity to the southwest corner of the WWTP project site. The carbon dioxide removal facility associated with the revised project would require approximately one truck trip each week to pick up the compressed CO<sub>2</sub>, and one truck trip every three months to exchange the used limestone with new limestone. Additionally, the carbon dioxide removal facility could generate an additional sixteen additional vehicle trips per day. However, the addition of these additional vehicle trips do not constitute a significant increase in noise. Additionally, while the facility itself would generate a small amount of noise, the noise generated would be minimal, and would not affect nearby persons.

Compared to the analysis contained in the IS/MND, the project revisions would not result in significant increased impacts to noise, or cause a substantial increase in the severity of any noise impacts. No new mitigation requirements are required for the project revisions. No new mitigation requirements are required for the project revisions.

#### *POPULATION AND HOUSING*

As described in the IS/MND, implementation of the project would not directly result in population growth, nor would it convert any land use designations to a use that would allow for

the construction of housing. The proposed project will not generate a significant number of new jobs which could lead indirectly to population growth. There are no homes or residences currently located on the project site, and therefore, no homes or people would be displaced as a result of project implementation. There would be no change to the analysis contained in the IS/MND and the project revisions would not increase the severity of any impacts related to population and housing. No new mitigation requirements are required for the project revisions.

#### *PUBLIC SERVICES AND RECREATION*

As described in the IS/MND, the project would not result in any impacts related to public services, including police, fire, schools, parks or other public facilities. None of the proposed revisions to the project would result in new public services impacts or increase the severity of any impacts related to public services. Impacts related to this topic would remain unchanged from the analysis in the IS/MND. No new mitigation requirements are required for the project revisions.

#### *TRANSPORTATION AND TRAFFIC*

As described in the IS/MND, the project would not result in any significant impacts to traffic, transportation facilities, or area roadways or intersections. The original project addressed in the IS/MND would have generated approximately 20 truck trips per day associated with biomass fuel deliveries. These trips are anticipated to occur throughout the day, and would not be concentrated during peak travel hours. A worst-case scenario is that the project could generate up to 14 additional vehicle trips in any given hour (nine employee trips and five truck trips).

The carbon dioxide removal facility associated with the revised project would require approximately one truck trip each week to pick up the compressed CO<sub>2</sub>, and one truck trip every three months to exchange the used limestone with new limestone. Additionally, the carbon dioxide removal facility could generate an additional sixteen additional vehicle trips per day. The addition of these vehicle trips do not constitute a significant increase in traffic, nor would it result in a decreased level of service on area roadways or intersections, or cause any other transportation and traffic impact.

Compared to the analysis contained in the IS/MND, the project revisions would not result in significant increased impacts to the area transportation network, or cause a substantial increase in the severity of any transportation and traffic impacts. No new mitigation requirements are required for the project revisions.

#### *UTILITIES AND SERVICE SYSTEMS*

As described in the IS/MND, the project would not result in any impacts related to utility services, including water, sewer, drainage, or solid waste. None of the proposed revisions to the project would result in new utilities impacts or increase the severity of any impacts related to utilities. Impacts related to this topic would remain unchanged from the analysis in the IS/MND. No new mitigation requirements are required for the project revisions.

## CONCLUSIONS

Based on the information provided above, the proposed project revisions would not result in an increase of impacts to any environmental topic previously addressed in the IS/MND, nor would the project result in new environmental impacts that were not previously addressed in the IS/MND.

Based on the evidence included in this Addendum, the proposed project, as described in Chapter 2.0, would not result in a substantial change in the conclusions and analysis included in the IS/MND, which was adopted by the Tracy City Council on May 1, 2012.

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**CITY OF TRACY**

**DETERMINATION OF**

**THE DEVELOPMENT SERVICES DIRECTOR**

Application Number D22-0039

A determination of the Development Services Director to (1) determine that an Addendum to the Initial Study and Mitigated Negative Declaration for the Tracy Desalination and Green Energy Project is the appropriate environmental documentation to comply with the requirements of the California Environmental Quality Act (CEQA) and the CEQA Guidelines, pursuant to CEQA Guidelines Sections 15162 and 15164, for the construction of a facility to remove carbon dioxide from the atmosphere, including a 12,750 square foot equipment enclosure, a 25,600 square foot open-air equipment yard, a 1,500 square foot office trailer, parking area and landscaping improvements, located at 4750 Holly Drive, Assessor's Parcel Number 212-160-11, Application Number D22-0039 (hereinafter "Project"), and (2) approve a Development Review Permit to construct the Project. The applicant is Heirloom Carbon Technologies, Inc. and Tracy Renewable Energy, LLC. The property owner is the City of Tracy.

Staff has reviewed the application and determined that the following City regulations apply:

1. Light Industrial (M1) Zone (TMC Chapter 10.08, Article 20)
2. Development Review (TMC Chapter 10.08, Article 30)

THE DEVELOPMENT SERVICES DIRECTOR, AFTER CONSIDERING ALL OF THE EVIDENCE PRESENTED, HEREBY (1) DETERMINES THAT AN ADDENDUM TO THE INITIAL STUDY AND MITIGATED NEGATIVE DECLARATION FOR THE TRACY DESALINATION AND GREEN ENERGY PROJECT IS THE APPROPRIATE ENVIRONMENTAL DOCUMENTATION FOR THE PROJECT TO COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) AND THE CEQA GUIDELINES, PURSUANT TO CEQA GUIDELINES SECTIONS 15162 AND 15164, AND (2) APPROVES A DEVELOPMENT REVIEW PERMIT TO CONSTRUCT THE PROJECT, SUBJECT TO CONDITIONS CONTAINED IN EXHIBIT 1 AND BASED ON THE FOLLOWING FINDINGS:

1. An Initial Study and Mitigated Negative Declaration (IS/MND) for the Tracy Desalination and Green Energy Project was adopted by the City Council on May 1, 2012 (Resolution No. 2012-75), in accordance with the requirements of the California Environmental Quality Act (CEQA) and the CEQA Guidelines. The proposed project is a revision to a 2.2-acre portion of the 237-acre Tracy Desalination and Green Energy project site. An Addendum to the IS/MND has been prepared, pursuant to CEQA Guidelines Sections 15162 and 15164, based on the following findings:
  - a. The proposed revisions to the previously approved Tracy Desalination and Green Energy Project will not result in new significant impacts, as documented in the Addendum to the IS/MND, which is included as Attachment D to the staff report dated December 14, 2022.
  - b. The proposed revisions to the previously approved Tracy Desalination and Green Project will not substantially increase the severity of impacts previously identified in

Development Services Director Determination

Application Number D22-0039

December 14, 2022

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the IS/MND, as documented in the Addendum to the IS/MND, which is included as Attachment D to the staff report dated December 14, 2022.

- c. There are no previously infeasible alternatives that are now feasible, as documented in the Addendum to the IS/MND, which is included as Attachment D to the staff report dated December 14, 2022.

Therefore, an Addendum is the appropriate environmental documentation to comply with the requirements of CEQA and the CEQA Guidelines, and the Addendum has been prepared consistent with the requirements of CEQA Guidelines Section 15162 and 15164.

- 2. The proposal increases the quality of the project site and enhances the property in a manner that therefore improves the property in relation to the surrounding area and the citizens of Tracy because the carbon dioxide removal facility will be compatible with the surrounding industrial area, including the Tracy Desalination Plant, the soon to be constructed five-megawatt bio-mass electrical generating power plant, and the City's Wastewater Treatment Plant.
- 3. The proposal conforms to Chapter 10.08, Zoning Regulations, of the Tracy Municipal Code, the City of Tracy General Plan, applicable Infrastructure Master Plans, and other City regulations because the proposed facility is a permitted use in the Light Industrial zone and the project will comply with all City requirements.

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Kris Balaji  
Development Services Director

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Date of Action

**City of Tracy  
Development Review Permit  
Conditions of Approval**

Heirloom's Facility to Remove Carbon Dioxide from the Atmosphere  
4750 Holly Drive (shared parcel with Tracy Desalination Plant)  
Assessor's Parcel Number 212-160-11  
Application Number D22-0039  
December 14, 2022

**A. General Provisions and Definitions**

1. These Conditions of Approval shall apply to the Development Review Permit to construct a facility to remove carbon dioxide from the atmosphere consistent with the State's emission reduction goals, including an approximately 12,750 square foot equipment enclosure, an approximately 25,600 square foot open-air equipment yard, an approximately 1,500 square foot office trailer, parking area and landscaping improvements, located at 4750 Holly Drive, Assessor's Parcel Number 212-160-11, Application Number D22-0039 (hereinafter "Project"), proposed by Heirloom Carbon Technologies and Tracy Renewable Energy, LLC (hereinafter "Applicant").
2. The following definitions shall apply to these Conditions of Approval:
  - a. "Applicant" means any person, or other legal entity, defined as a "Developer".
  - b. "City Engineer" means the City Engineer of the City of Tracy, or any other duly licensed engineer designated by the City Manager, or the Development Services Director, or the City Engineer to perform the duties set forth herein.
  - c. "City Regulations" mean all written laws, rules, and policies established by the City, including those set forth in the City of Tracy General Plan, the Tracy Municipal Code, ordinances, resolutions, policies, procedures, and the City's Design Documents (including the Standard Plans, Standard Specifications, Design Standards, and relevant Public Facility Master Plans).
  - d. "Conditions of Approval" shall mean the conditions of approval applicable to Development Review Permit Application Number D22-0039.
  - e. "Developer" means any person, or other legal entity, who applies to the City to divide or cause to be divided real property within the Project boundaries, or who applies to the City to develop or improve any portion of the real property within the Project boundaries. The term "Developer" shall include all successors in interest.

- f. “Development Services Director” means the Development Services Director of the City of Tracy, or any other person designated by the City Manager or the Development Services Director to perform the duties set forth herein.
- g. “Project” means construction of a facility to remove carbon dioxide from the atmosphere consistent with the State’s emission reduction goals, including an approximately 12,750 square foot equipment enclosure, an approximately 25,600 square foot open-air equipment yard, an approximately 1,500 square foot office trailer, parking area and landscaping improvements, located at 4750 Holly Drive, Assessor’s Parcel Number 212-160-11, Application Number D22-0039.

3. Compliance with submitted plans. Except as otherwise modified herein, the project shall be constructed in substantial compliance with the plans received by the Development Services Department on December 5, 2022.
4. Payment of applicable fees. The applicant shall pay all applicable fees for the project, including, but not limited to, building permit fees, plan check fees, inspection fees, or any other City or other agency fees or deposits that may be applicable to the project.
5. Compliance with laws. The Developer shall comply with all laws (federal, state, and local) related to the development of real property within the Project, including, but not limited to:
  - a. Planning and Zoning Law (Government Code sections 65000, et seq.),
  - b. California Environmental Quality Act (Public Resources Code sections 21000, et seq., “CEQA”), and
  - c. Guidelines for California Environmental Quality Act (California Administrative Code, title 14, sections 1500, et seq., “CEQA Guidelines”).
6. Compliance with City regulations. Unless specifically modified by these Conditions of Approval, the Developer shall comply with all City regulations, including, but not limited to, the Tracy Municipal Code (TMC), Standard Plans, and Design Goals and Standards.
7. Protest of fees, dedications, reservations, or other exactions. Pursuant to Government Code section 66020, including section 66020(d)(1), the City HEREBY NOTIFIES the Developer that the 90-day approval period (in which the Developer may protest the imposition of any fees, dedications, reservations, or other exactions imposed on this Project by these Conditions of Approval) has begun on the date of the conditional approval of this Project. If the Developer fails to file a protest within this 90-day period, complying with all of the requirements of Government Code section 66020, the Developer will be legally barred from later challenging any such fees, dedications, reservations or other exactions.

B. Planning Division Conditions

1. Except as modified herein, the project shall be developed in substantial compliance with the plans received by the Development Services Department on December 5, 2022, to the satisfaction of the Development Services Director.
2. Prior to the issuance of a building permit, the developer shall submit a detailed landscape and irrigation plan consistent with City landscape and irrigation standards, including, but not limited to Tracy Municipal Code Section 10.08.3560, the City's Design Goals and Standards, the City's Water Efficient Landscape Ordinance, and all other applicable City regulations, to the satisfaction of the Development Services Director.
3. All PG&E transformers, phone company boxes, Fire Department connections, back flow prevention devices, irrigation controllers, and other on-site utilities, shall be vaulted or screened from view from any public right-of-way, behind structures or landscaping, to the satisfaction of the Development Services Director.
4. No roof mounted equipment, including, but not limited to, HVAC units, vents, fans, antennas, sky lights and dishes whether proposed as part of this application, potential future equipment, or any portion thereof, shall be visible from any public right-of-way. All roof-mounted equipment shall be screened from view from the public right-of-way with a continuous parapet wall at least equal in height to the height of any equipment installed, to the satisfaction of the Development Services Director.
5. Before final inspection or certificate of occupancy, all vents, gutters, downspouts, flashing, and electrical conduits shall be internal to the structures or painted to match the color of the adjacent surfaces or otherwise designed in harmony with the building exterior, to the satisfaction of the Development Services Director.
6. Any trash containers located outside of a building shall be concealed within a trash enclosure. Prior to the issuance of a building permit, the Developer shall design any trash enclosures to include the following: masonry wall enclosure with a minimum height of seven feet, solid metal doors, concrete aprons in front of the enclosures where the dumpsters and loading/transport equipment or vehicles will maneuver, and exterior materials and colors compatible with the adjacent building exterior, to the satisfaction of the Development Services Director.
7. Prior to final inspection or certificate of occupancy, parking area lighting shall be designed and installed so that it is directed downward onto the parking surface and away from the public right-of-way.

8. No signs are approved as part of this Development Review Permit. Approval of a separate sign permit application by the Development Services Department is necessary prior to the installation of any signs.
9. Prior to issuance of a building permit, the Developer shall provide plans to show that where landscape planters are parallel and adjacent to the side of a vehicular parking space, a 12-inch wide concrete curb shall be provided to allow for pedestrian access to vehicles without damage to landscape areas.
10. Prior to the issuance of a building permit, bicycle parking spaces shall be provided in accordance with Tracy Municipal Code Section 10.08.3510 to the satisfaction of the Development Services Director.
11. The Developer shall comply with all mitigation measures identified in the Mitigated Negative Declaration for the Tracy Desalination and Green Energy Project, which was approved by City Council on May 1, 2012 (Resolution No. 2012-075), prepared in accordance with the requirements of the California Environmental Quality Act (“CEQA”) and the CEQA Guidelines.
12. The Developer shall comply with all applicable requirements of the San Joaquin Valley Air Pollution Control District (APCD).
13. Prior to issuance of a building permit or grading permit, the developer shall demonstrate compliance with the San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP) and the Incidental Take Minimization Measures prepared by San Joaquin Council of Government (SJCOC), to the satisfaction of the Development Services Director.

### **C. Engineering Division Conditions**

#### **C.1. General Conditions**

Developer shall comply with the applicable sections of approved documents and/or recommendations of the technical analyses/reports prepared for the Project listed as follows:

- 1) Not Applicable.

**C.2. RESERVED**

**C.3. RESERVED**

#### **C.4. Grading Permit**

All grading work (on-site and off-site) shall require a Grading Plan. All grading work shall be performed and completed in accordance with the recommendation(s) of the Project's Registered Geotechnical Engineer. Prior to the release of the Grading Permit for the Project, Developer shall provide all documents related to said Grading Permit required by the applicable City

Regulations and these Conditions of Approval, to the satisfaction of the City Engineer, including, but not limited to, the following:

- C.4.1 Developer has completed all requirements set forth in this section.
- C.4.2 Developer has obtained the approval (i.e. recorded easements for slopes, drainage, utilities, access, parking, etc.) of all other public agencies and/or private entities with jurisdiction over the required public and/or private facilities and/or property. Written permission from affected owner(s) will be required to be submitted to the City prior to the issuance of the Grading Permit.
- C.4.3 Developer has obtained a demolition permit to remove any existing structure located within the project's limits.
- C.4.4 All existing on-site water well(s), septic system(s), and leech field(s), if any, shall be abandoned or removed in accordance with the City and San Joaquin County requirements. Developer shall be responsible for all costs associated with the abandonment or removal of the existing well(s), septic system(s), and leech field(s) including the cost of permit(s) and inspection. Developer shall submit a copy of written approval(s) or permit(s) obtained from San Joaquin County regarding the removal and abandonment of any existing well(s), prior to the issuance of the Grading Permit.
- C.4.5 The Improvement Plans for all improvements to serve the Project (on-site and off-site) including the Grading and Drainage Plans shall be prepared in accordance with the City's Subdivision Ordinance (TMC Chapter 12.36), City Design Documents as defined in Title 12 of the TMC, and these Conditions of Approval.
- C.4.6 On-site Grading/Drainage Plans and Improvement Plans shall be prepared on a twenty-four (24) inch x thirty-six (36) inch size four (4) millimeter thick polyester film (mylar). These plans shall use the City's Title Block. Improvement Plans shall be prepared under the supervision of, stamped and signed by a Registered Civil Engineer and Registered Geotechnical Engineer. Developer shall obtain all applicable signatures by City departments and outside agencies (where applicable) on the mylars including signatures by the Fire Marshal prior to submitting the mylars to Engineering Division for City Engineer's signature. Erosion control measures shall be implemented in accordance with the Improvement Plans approved by the City Engineer for all grading work. All grading work not completed before October 15 may be subject to additional requirements as applicable. Improvement Plans shall specify all proposed erosion control methods and construction details to be employed and specify materials to be used during and after the construction.

C.4.7 Payment of the applicable Grading Permit fees which include grading plan checking and inspection fees, and other applicable fees as required by these Conditions of Approval.

C.4.8 For Projects on property larger than one (1) acre: Prior to the issuance of the Grading Permit, Developer shall submit to the Utilities Department ([stephanie.hiestand@cityoftracy.org](mailto:stephanie.hiestand@cityoftracy.org)) one (1) electronic copy and one (1) hard copy of the Storm Water Pollution Prevention Plan (SWPPP) as submitted in Stormwater Multiple Applications and Reporting Tracker System (SMARTS) along with either a copy of the Notice of Intent (NOI) with the state-issued Wastewater Discharge Identification number (WDID) or a copy of the receipt for the NOI. After the completion of the Project, the Developer is responsible for filing the Notice of Termination (NOT) required by SWQCB, and shall provide the City, a copy of the completed Notice of Termination. Cost of preparing the SWPPP, NOI and NOT including the annual storm drainage fees and the filing fees of the NOI and NOT shall be paid by the Developer. Developer shall comply with all the requirements of the SWPPP, applicable Best Management Practices (BMPs) and the Stormwater Post-Construction Standards adopted by the City in 2015 and any subsequent amendment(s).

For Projects on property smaller than one (1) acre: Prior to the issuance of the Grading Permit, the Developer shall submit to the Utilities Department ([stephanie.hiestand@cityoftracy.org](mailto:stephanie.hiestand@cityoftracy.org)) one (1) electronic copy and 1 hard copy of the City of Tracy Erosion and Sediment Control Plan (ESCP) for approval. Cost of preparing the ESCP including any annual storm drainage fees shall be paid by the Developer. Developer shall comply with all the requirements of the ESCP, applicable BMPs and the Post-Construction Stormwater Standards adopted by the City in 2015 and any subsequent amendment(s).

C.4.9 Developer shall provide a PDF copy of the Project's Geotechnical Report signed and stamped by a Registered Geotechnical Engineer. The technical report must include relevant information related to soil types and characteristics, soil bearing capacity, compaction recommendations, retaining wall recommendations, if necessary, paving recommendations, paving calculations such as gravel factors, gravel equivalence, etc., slope recommendations, and elevation of the highest observed groundwater level.

C.4.10 Minor Retaining – Developer shall use reinforced or engineered masonry blocks for retaining soil at property lines when the grade differential among the in-tract lots exceeds twelve (12) inches. Developer will include construction details of these minor retaining walls with the on-site Grading and Drainage Plan. Developer may use slopes among the lots to address the grade differential but said slope shall not exceed a slope gradient of 3 (horizontal) to 1 (vertical) unless a California licensed geotechnical engineer signs and stamps a geotechnical report letter that supports a steeper slope gradient. Slope easements may be required and will be subject to approval by the City Engineer.

Minor Retaining along Project Perimeter – Developer shall use reinforced or engineered masonry blocks for retaining soil along the Project boundary and adjacent property(s) when the grade differential exceeds 12-inches. Developer will include construction details for these minor retaining walls with the on-site Grading and Drainage Plan. Developer may use slopes to address the grade differential but said slope shall not exceed a slope gradient of 3 (horizontal) to 1 (vertical). Slope easements may be subject to approval by the City Engineer and if adjacent and affected property(s) owner(s) grants said easements.

Slopes are an acceptable option as a substitute to engineered retaining walls, where cuts or fills do not match existing ground or final grade with the adjacent property or public right of way, up to a maximum grade differential of two (2) feet, subject to approval by the City Engineer.

Slope easements will be recorded, prior to the issuance of the Grading Permit. The Developer shall be responsible to obtain and record slope easement(s) on private properties, where it is needed to protect private improvements constructed within and outside the Project, and a copy of the recorded easement document must be provided to the City, prior to the issuance of the Grading Permit.

Walls - Developer shall show proposed retaining walls and masonry walls on the on-site Grading and Drainage Plan. The Developer is required to submit improvement plans, construction details, and structural calculations for retaining walls and masonry walls to Building and Safety. Retaining wall and masonry wall design parameters will be included in the geotechnical report.

C.4.11 Developer shall provide a copy of the approved Incidental Take Minimization Measures (ITMM) habitat survey [San Joaquin County Multi-Species Habitat Conservation & Open Space Plan (SJMSCP)] from San Joaquin Council of Governments (SJCOC).

C.4.12 Developer shall provide a copy of the approved Air Impact Assessment (AIA) with an Indirect Source Review (ISR) from San Joaquin Valley Air Pollution Control District (SJVAPCD).

C.4.13 Developer shall abandon or remove all existing irrigation structures, channels and pipes, if any, as directed by the City after coordination with the irrigation district, if the facilities are no longer required for irrigation purposes. If irrigation facilities including tile drains, if any, are required to remain to serve existing adjacent agricultural uses, the Developer will design, coordinate and construct required modifications to the facilities to the satisfaction of the affected agency and the City. Written permission from irrigation district or affected owner(s) will be required to be submitted to the City prior to the issuance of the Grading Permit. The cost of relocating and/or removing irrigation facilities and/or tile drains is the sole responsibility of the Developer.

C.4.14 Developer shall underground existing overhead utilities such as electric, TV cable, telephone, and others. Each dry utility shall be installed at the location approved by the respective owner(s) of dry utility and the Developer shall coordinate such activities with each utility owner. All costs associated with the undergrounding shall be the sole responsibility of the Developer and no reimbursement will be due from the City. Developer shall submit undergrounding plans. Exempt from this condition are high voltage power lines, if any. Referenced and incorporated herein are Title 11 and Title 12 of the Tracy Municipal Code.

C.4.15 If at any point during grading that the Developer, its contractor, its engineers, and their respective officials, employees, subcontractor, and/or subconsultant exposes/encounters/uncovers any potential archeological, historical, or other paleontological findings, the Developer shall address the findings as required per the General Plan Cultural Resource Policy and General Plan Environmental Impact Report; and subsequent Cultural Resource Policy or mitigation in any applicable environmental document.

C.5. Improvement Agreement(s)

All construction activity involving public improvements will require a fully executed improvement agreement (Off-site, Subdivision, and/or Inspection). Any construction activity involving public improvements without a fully executed improvement agreement is prohibited. All public improvements shall be performed and completed in accordance with the recommendation(s) of the Project's Registered Civil Engineer. Prior to the consideration of City Council's approval of said improvement agreement, the Developer shall provide all documents related to said improvements required by the applicable City Regulations and these Conditions of Approval, to the satisfaction of the City Engineer, including, but not limited to, the following:

C.5.1. Off-site and/or Public Infrastructure Improvement Plans prepared on a twenty-four (24) inch x thirty-six (36) inch size four (4) millimeter thick mylar that incorporate all requirements described in the documents described in these Conditions of Approval, the City's

Design Documents as defined in Title 12 of the Tracy Municipal Code. Developer shall use the latest title block and, if necessary, contain a signature block for the Fire Marshal. Improvement Plans shall be prepared under the supervision of, and stamped and signed by a Registered Civil, Traffic, Electrical, Mechanical Engineer, and Registered Landscape Architect for the relevant work. Developer shall obtain all applicable signatures by City departments and outside agencies (where applicable) on the mylars including signatures by Fire Marshal to submitting the mylars to Engineering Division for City Engineer's signature. The improvement plans shall be prepared to specifically include, but not be limited to, the following items:

- C.5.1.a. All existing and proposed utilities such as domestic water line, irrigation service, fire service line, storm drain, and sanitary sewer, including the size and location of the pipes.
- C.5.1.b. All supporting engineering calculations, materials information or technical specifications, cost estimate, and technical reports. All improvement plans shall contain a note stating that the Developer (or Contractor) will be responsible to preserve and protect all existing survey monuments and other survey markers such as benchmarks.
- C.5.1.c. A PDF copy of the Project's approved Geotechnical/Soils Report that was prepared for the grading permit submittal.
- C.5.1.d. Storm Water - The Project's on-site storm water drainage connection to CST's wastewater treatment system shall be approved by the City Engineer. Drainage calculations for the sizing of the on-site storm drainage system. Improvement Plans to be submitted with the hydrology and storm water.

Storm drainage release point is a location at the boundary of the Project adjacent public right-of-way where storm water leaves the Property, in a storm event and that the Property's on-site storm drainage system fails to function or it is clogged. Site grading shall be designed such that the Project's storm drainage overland release point will be directly to an adjacent public right-of-way with a functional storm drainage system and the existing storm drainage line has adequate capacity to drain storm water from the Property. The storm drainage release point is recommended to be at least 0.70-feet lower than the building finish floor elevation and shall be designed and improved to the satisfaction of the City Engineer.

The Project's permanent storm drainage connection(s) shall be designed and constructed in accordance with City Regulations. The design of the permanent storm drainage connection shall be shown on the Grading and Drainage Plans with calculations for the sizing of the storm drain pipe(s), and shall comply with the applicable requirements of the City's storm water regulations adopted by the City Council in 2012 and any subsequent amendments.

Developer and its heirs shall be responsible for repairing and maintaining the on-site storm water system and treatment basin at the Developer's (and heirs') sole cost and expense.

C.5.1.e. Sanitary Sewer - It is the Developer's responsibility to design and construct the Project's permanent on-site sanitary sewer (sewer) improvements including the Project's sewer connection in accordance with the City's Design Standards, City Regulations and Standard Specifications. Sewer improvements shall include but not limited to, replacing asphalt concrete pavement, reconstructing curb, gutter and sidewalk, restoring pavement marking and striping, and other improvements that are disturbed as a result of installing the Project's permanent sewer connection. Developer shall submit improvement plans that include the design of the sewer line from the Property to the point of connection. Developer shall also construct the recommended mitigations from the sanitary sewer technical memorandum.

C.5.1.f. Water Distribution - Developer shall design and construct domestic and irrigation water service that comply with the City Regulations. Water line sizing, layout and looping requirements for this Project shall comply with City Regulations. During the construction of the Project, the Developer is responsible for providing water infrastructure (temporary or permanent) capable of delivering adequate fire flows and pressure appropriate to the various stages of construction and as approved by the Fire Marshal.

Interruption to the water supply to the existing businesses and other users will not be allowed to facilitate construction of improvements related to the Project. Developer shall be responsible for notifying business owner(s) and users, regarding construction work. The written notice, as approved by the City Engineer, shall be delivered to the affected residents or business owner(s) at least seventy-two (72) hours before start of work. Prior to starting the work described in this section, the Developer shall submit a Work

Plan acceptable to the City that demonstrates no interruptions to the water supply, and Traffic Control Plan to be used during the installation of the off-site water mains and connections.

The Project's water service connections shall use a remote-read (radio-read) master water meter (the water meter to be located within City's right-of-way) and a Reduced Pressure Type back-flow protection device in accordance with City Regulations. The domestic and irrigation water service connection(s) must be completed before the inspection of the building. The location of the meters shall be approved by the City Engineer.

After improvement acceptance, repair and maintenance of the water service from the water meter to the point of connection with the water distribution main in the street shall be the responsibility of the City. Water service repairs after the water meter is the responsibility of the Developer or individual lot owner(s).

Prior to improvement acceptance, repair and maintenance of all on-site water lines, laterals, sub-water meters, valves, fittings, fire hydrant and appurtenances shall be the responsibility of the Developer or the individual lot owner(s).

All costs associated with the installation of the Project's water connection(s) including the cost of removing and replacing asphalt concrete pavement, pavement marking and striping such as crosswalk lines and lane line markings on existing street or parking area(s) that may be disturbed with the installation of the permanent water connection(s), or domestic water service, and other improvements shall be paid by the Developer.

**Fire Service Line** – Location and construction details of fire service line including fire hydrant(s) that are to serve the Project shall be approved by the Fire Marshal. Prior to the approval of the Improvement Plans by the City Engineer, the Developer shall obtain written approval from the Fire Marshal, for the design, location and construction details of the fire service connection to the Project, and for the location and spacing of fire hydrants that are to be installed or planned to serve the Project.

C.5.1.g. **Streets** – The Developer shall have frontage improvements. All streets and utilities improvements within City right-of-way shall be designed and constructed in accordance with City

Regulations, and City's Design Standards including the City's Facilities Master Plan for storm drainage, roadways, wastewater, and water as adopted, amended, and updated by the City, or as otherwise specifically approved by the City. The Developer shall construct frontage improvements as described below.

Arbor Road

Per the adopted 2012 Transportation Master Plan, Arbor Road is planned to be a 74-feet wide two-lane arterial road. Developer shall construct portland cement concrete curb, gutter, and sidewalk; construct landscaping and its automatic irrigation system; fire hydrants; and streetlights along the Project's frontage.

Along the Project frontage, Developer shall landscape and irrigate the existing parkways per current adopted City landscape standards. Landscape and irrigation plans shall be prepared on a 24-inch x 36-inch size 4-millimeter thick mylar that incorporate all requirements described in the documents described in these Conditions of Approval, the City's Design Documents as defined in Title 12 of the Tracy Municipal Code. Developer shall use the latest title block. Said landscape and irrigation plan shall be prepared by a California licensed landscape architect. Developer can either protect-in-place the existing sidewalk and repair any cracked, settled, and/or damaged sidewalk or remove and replace the sidewalk so long as the replacement sidewalk is similar to the current sidewalk, i.e. similar width, meanders, etc.

- C.5.2. Joint Trench Plans and Composite Utility Plans, prepared on a twenty-four (24) inch x thirty-six (36) inch size four (4) millimeter thick mylar for the installation of dry utilities such as electric, gas, TV cable, telephone, and others that will be located within the twenty-four (24) feet wide to forty-six (46) feet wide [the width varies] PUE to be installed to serve the Project. All private utility services to serve Project must be installed underground or relocated to be underground, and to be installed at the location approved by the respective owner(s) of the utilities from the street or an existing or proposed utility easement to the building(s). If necessary, the Developer shall dedicate twenty-two (22) feet wide PUE for access to these new utilities for re-installation, replacement, repair, and maintenance work to be performed by the respective utility owner(s) in the future.
- C.5.3. Signed and stamped Engineer's Estimate that summarizes the cost of constructing all the public improvements shown on the Improvement

Plans. The cost estimate shall show the cost of designing the public improvements.

Payment of applicable fees required by these Conditions of Approval and City Regulations, including but not limited to, plan checking, grading and encroachment permits and agreement processing, construction inspection, and testing fees. The engineering review fees will be calculated based on the fee rate adopted by the City Council on September 2, 2014, per Resolution 2014-141 and on May 16, 2017, per Resolution 2017-098. Developer shall submit payment in the form of a check for the aforementioned fees.

C.5.4. Traffic Control Plan - Prior to starting the work for any work within City's right-of-way, the Developer shall submit a Traffic Control Plan (TCP). TCP can be split among the different construction phases. TCP will show the method and type of construction signs to be used for regulating traffic at the work areas within these streets. TCP shall conform to the Manual on Uniform Traffic Control Devices as amended by the State of California, latest edition (MUTCD-CA). TCP shall be prepared under the supervision of, signed and stamped by a Registered Civil Engineer or Registered Traffic Engineer.

Access and Traffic Circulation to Existing Businesses/Residents - Developer shall take all steps necessary to plan and construct site improvements such that construction operations do not impact safety and access (including emergency vehicles) to the existing businesses and residents throughout the duration of construction. Developer shall coordinate with the owners and cooperate to minimize impacts on existing businesses. All costs of measures needed to provide safe and functional access shall be borne by the Developer.

C.5.5. No street trench shall be left open, uncovered, and/or unprotected during night hours and when the Developer's contractor is not performing construction activities. Appropriate signs and barricades shall be installed on the street and on all trenches during such times. If the Developer or its contractor elects to use steel plates to cover street trenches, said steel plates will be skid-resistance, and shall be ramped on all sides. Ramps will be a minimum two-foot wide and will run the entire length of each side.

C.5.6. If at any point during utility installation or construction in general that the Developer, its contractor, its engineers, and their respective officials, employees, subcontractor, and/or subconsultant exposes/encounters/uncovers any archeological, historical, or other paleontological findings, the Developer shall address the findings as required per the General Plan Cultural Resource Policy and General Plan EIR; and subsequent Cultural Resource Policy or mitigation in any applicable environmental document.

C.5.7 Improvement Security - Developer shall provide improvement security for all public facilities, as required by the Improvement Agreement. The form of the improvement security may be a bond, or other form in accordance with the Government Code, and the TMC. The amount of the improvement security shall be in accordance with Title 12 of the TMC.

Insurance – Developer shall provide written evidence of insurance coverage that meets the terms of the Improvement Agreement.

C.6. Building Permit

Prior to the release of a building permit within Project boundaries, the Developer shall demonstrate, to the satisfaction of the City Engineer, compliance with all required Conditions of Approval, including, but not limited to, the following:

C.6.1 Developer shall submit a separate building permit for the demolition of any existing structures.

C.6.2 Prior to the release of the building permit, Developer shall enter into a cost recovery agreement and provide enough funding to pay for the City's consultant to perform a warrant analysis for a traffic signal at the intersection of Arbor Road and MacArthur Road.

C.6.3 Prior to the release of the building permit, if the warrant analysis confirms that a traffic signal is warranted at the intersection of Arbor Road and MacArthur Road, then Developer shall pay its fair-share to construct the traffic signal. It is estimated to be about 5% based on acreage and amounts to a payment of \$75,000.

C.7 Acceptance of Public Improvements

Prior to the consideration of City Council's acceptance of public improvements, the Developer shall demonstrate to the reasonable satisfaction of the City Engineer, completion of the following:

C.7.1 Developer has satisfied all the requirements set forth in these Conditions of Approval.

C.7.2 Developer submitted the Storm water Treatment Facilities Maintenance Agreement (STFMA) to the Utilities Department.

C.7.3 Developer has satisfactorily completed construction of all required/conditioned improvements. Unless specifically provided in these Conditions of Approval, or some other applicable City Regulations, the Developer shall use diligent and good faith efforts in taking all actions necessary to construct all public facilities required to serve the Project, and the Developer shall bear all costs related to

construction of the public facilities (including all costs of design, construction, construction management, plan check, inspection, land acquisition, program implementation, and contingency).

- C.7.4 Certified "As-Built" Improvement Plans (or Record Drawings). Upon completion of the construction by the Developer, the City, at its sole discretion, temporarily release the original mylars of the Improvement Plans to the Developer so that the Developer will be able to document revisions to show the "As-Built" configuration of all improvements.
- C.7.5 Developer shall be responsible for any repairs or reconstruction of street pavement, curb, gutter and sidewalk and other public improvements along the frontage of the Project, if determined by the City Engineer to be in poor condition or damaged by construction activities related to the Project.
- C.7.6 Developer has completed the ninety (90) day public landscaping maintenance period.
- C.7.7 Per Section 21107.5 of the California Vehicle Code, Developer shall install signs at all entrance(s) of the Project stating that the streets are privately owned and maintained and are not subject to the public traffic regulations or control. Said signs must be conspicuously placed, plainly visible, and legible during daylight hours from a distance of one hundred (100) feet, if applicable.
- C.7.8 Survey Monuments – Any altered, damaged, or destroyed survey monuments and/or benchmarks shall be re-established. Developer shall submit centerline tie sheets or a record of survey for the following: new public streets; re-established survey monuments, and/or benchmarks. If the Developer destroyed, altered, and/or reconstructed any existing curb returns, Developer shall also submit corner records. Any survey document will be submitted the City and to the San Joaquin County Surveyor to comply with California Business and Professions Code Section 8771(c). Said work shall be executed by a California licensed Land Surveyor at the Developer's sole expense.

#### C.8 Special Conditions

- C.8.1 When street cuts are made for the installation of utilities, the Developer shall conform to Section 3.14 of the 2020 Design Standards and is required install a two (2) inch thick asphalt concrete (AC) overlay with reinforcing fabric at least twenty-five (25) feet from all sides of each utility trench. A two (2) inch deep grind on the existing AC pavement will be required where the AC overlay will be applied and shall be uniform thickness in order to maintain current pavement grades, cross and longitudinal slopes. This pavement repair

requirement is when cuts/trenches are perpendicular and parallel to the street's direction.

- C.8.2 Nothing contained herein shall be construed to permit any violation of relevant ordinances and regulations of the City of Tracy, or other public agency having jurisdiction. This Condition of Approval does not preclude the City from requiring pertinent revisions and additional requirements to the improvement plans, prior to the City Engineer's signature on the improvement plans, and prior to issuance of Grading Permit, Encroachment Permit, Building Permit, if the City Engineer finds it necessary due to public health and safety reasons, and it is in the best interest of the City. The Developer shall bear all the cost for the inclusion, design, and implementations of such additions and requirements, without reimbursement or any payment from the City.
- C.8.3 Prior to the release of the Building Permit, if water is required for the Project, the Developer shall obtain an account for the water service and register the water meter with the Finance Department. Developer shall pay all fees associated with obtaining the account number for the water service.
- C.8.4 Prior to the release of the Certificate of Occupancy, Developer shall record with San Joaquin County Recorder a document to adjust the two parcels.
- C.8.5 Prior to acceptance of the public improvements, Developer shall cause its design professional to provide to the City in both AutoCAD format, and Shape File format (both in versions approved by the City), the public improvements associated with this Project.

#### **D. Utilities Department Conditions**

Contact: Stephanie Hiestand (209) 831-4333 [stephanie.hiestand@cityoftracy.org](mailto:stephanie.hiestand@cityoftracy.org)

- D.1. Prior to issuance of a grading permit, the applicant shall provide proof of permit coverage under the Construction General Permit and submittal of an electronic Stormwater Pollution Prevention Plan (SWPPP), to be submitted to [WaterResources@cityoftracy.org](mailto:WaterResources@cityoftracy.org).
- D.2. The project shall always comply with Federal, State, and Local mandates regarding potable water use, recycled water use, and water quality.
- D.3. Before the approval of a construction, grading or building permit, the applicant shall demonstrate compliance with Tracy Municipal Code Chapters 11.28 and 11.34, and Chapters 4 and 5 of the California Green Building Standards Code, to the satisfaction of the Utilities Director.
- D.4. Prior to issuance of a construction or building permit, applicant shall demonstrate compliance with the 2015 Model Water Efficient Landscape Ordinance and

obtain approval by the Utilities Department through the following:

- D.4.1. Develop and submit electronically and by hard copy, a Landscape Document Package (LDP) that identifies the methods to be employed to reduce water usage through proper landscape design, installation and maintenance. This LDP shall consist of:
  - i. A project information sheet that includes the checklist of all documents in the LDP;
  - ii. The Water Efficient Landscape Worksheets that include a hydrozone information table and the water budget calculations – Maximum Applied Water Allowance and Estimate Total Water Use;
  - iii. A soil management report, after compaction and from various locations throughout the project;
  - iv. A landscape design plan that includes the statement, “I agree to comply with the requirements of the 2015 water efficient landscape ordinance and shall submit for approval a complete Landscape Document Package;
  - v. An irrigation design plan with schedule; and
  - vi. A grading design plan.
- D.4.2. Per State Water Resources Control Board on May 24, 2022, all Commercial, Industrial, and Institutional facilities are prohibited from using potable water to irrigate non-functional turf. Non-functional turf is defined as a ground cover surface of mowed grass that is ornamental and not otherwise used for recreational purposes. Please submit your final landscape plan in conformance with these new regulations.
- D.4.3. A Certificate of Completion must be completed, signed, and submitted to the Utilities Department prior to Final approval for Occupancy.

#### **E. Development Services Department, Building Division Conditions**

Contact: Phillip Rainone (209) 831-6413 [phillip.rainone@cityoftracy.org](mailto:phillip.rainone@cityoftracy.org)

- E.1. Prior to commencement of construction, applicant shall submit to the Building Safety Division appropriate documents (Firm/Firmette) and associated construction documents in conformance with all local, state and federal laws and regulations for construction in flood zones per FEMA, CA DWR, TMC 9.52, and CBC.
- E.2. Prior to the construction of onsite improvement including but not limited to walks, sidewalks, utilities, signs, lights, retaining walls, sound walls, underground vaults, transformer, trellis, trash enclosures, etc., applicant shall submit to the Building Safety Division construction drawings and supporting documents that conform to the current Title 24 California Code of Regulations at time of application.
- E.3. Prior to commencement of construction, applicant shall submit to the Building Safety Division floor plans, state approval, and foundation system plans and

supporting documents for the office trailer conforming to Health and Safety Code 18551, 18030, and 18028.

- E.4. Prior to commencement of construction, applicant shall submit to the Building Safety Division construction plans and supporting documents for the building conforming to Title 24 California Code of Regulations and Tracy Municipal Code that are current at the time of submittal. Note: Beginning January 1, 2023, all new building permit applications will be required to conform to 2022 California Building Standards Code.
- E.5. Prior to commencement of construction, applicant shall submit to the Building Safety Division a report identifying the maximum expected quantities of hazardous materials per CBC 414 and 307.

**F. South San Joaquin County Fire Authority (SSJCFA) Conditions**

Contact: Daniel Stowe (209) 831-6707 [daniel.stowe@sjcfire.org](mailto:daniel.stowe@sjcfire.org)

- F.1. Prior to construction, applicant shall submit construction documents to the South San Joaquin County Fire Authority for review and approval.
  - F.1.1. Construction documents shall be designed to the current edition of the California Code of Regulations, Title 24, as amended by the City of Tracy Municipal Code.
  - F.1.2. Deferred submittals shall be listed on the coversheet of each page. Each deferred submittal shall be submitted, reviewed and approved by SSJCFA prior to installation.
  - F.1.3. Fire protection water supply must be submitted separately from construction permit. All piping and installation shall be in accordance with CFC §507 & NFPA standards. Approval of grading and/or on-site improvements does not grant installation of underground fire service.
  - F.1.4. Fire sprinklers shall be designed by a licensed fire protection contractor or engineer. Hydraulic calculations, specifications and plans shall be submitted prior to issuance of building permit.
  - F.1.5. A request for fire flow shall be submitted to the South San Joaquin County Fire Authority and results shall be approved by the Fire Marshal prior to construction. Fire flow requirements shall be in accordance with CFC Appendix B.
  - F.1.6. Fire department connections shall be installed in accordance with CFC §912 and NFPA standards. A hydrant shall be placed within 100' of the FDC, in accordance with NFPA 14 §6.4.5.4. FDC locations shall be approved by the fire code official prior to issuance of construction permit.

- F.1.7. Fire control room locations shall be approved the fire code official prior to the issuance of construction permit.
- F.2. Prior to construction, all-weather fire apparatus access roads shall be installed. Fire apparatus access roads during construction shall have a minimum 20' unobstructed width in accordance with CFC §503.
- F.3. All hydrants shall be installed, inspected and tested prior to bringing combustible materials onsite, including storage.
- F.4. Prior to construction, an address must be posted at the construction site entrance. Address must be a minimum of 4 inches high by ½ inch numerals. Address must be provided so that emergency service personnel can locate the construction site in the event of an emergency.



# Development Services Director Public Hearing

Agenda Item No. 1

December 14, 2022



# Carbon Dioxide Removal Facility

## 4750 Holly Drive

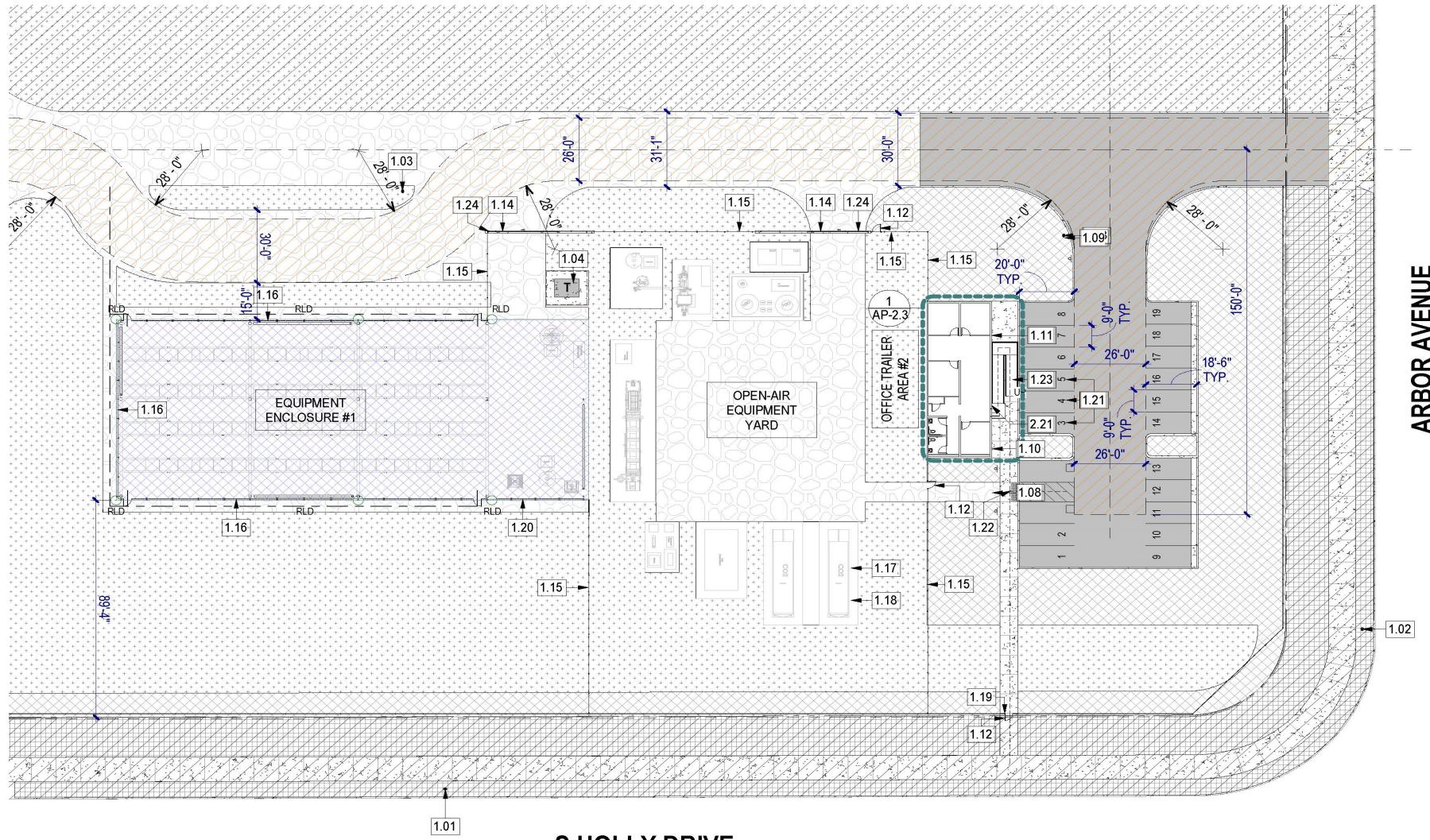
Development Application Number D22-0039

December 14, 2022

# Project Location



# Project Site Plan



ARBOR AVENUE

PROJECT  
NORTH

S HOLLY DRIVE

# Project Rendering



# Project Equipment & Process

What the Heirloom process looks like

**Contactors** support vertical stacks of trays to expose Calcium Hydroxide to the atmosphere for CO<sub>2</sub> capture. Calcium Hydroxide turns into Calcium Carbonate as it absorbs CO<sub>2</sub>

**Fully Enclosed Pipelines** and vacuums move material between stages of processing

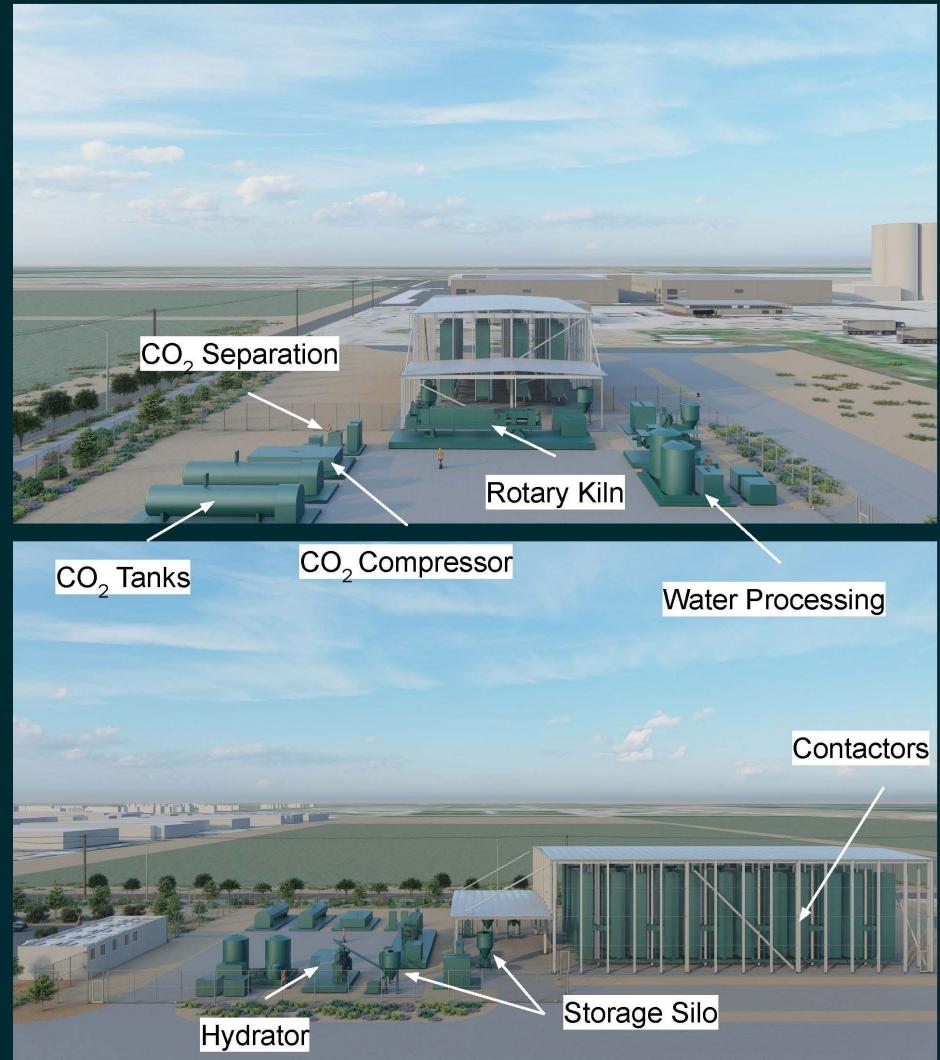
**Rotary kiln** releases CO<sub>2</sub> from calcium carbonate through calcination (heat). This produces calcium oxide and CO<sub>2</sub>

**Hydrator** mixes calcium oxide with water to form calcium hydroxide. This is sent back to the contactors.

**Compressor** reduces the volume of CO<sub>2</sub> coming from the kiln for efficient storage

**Cold Storage** collects up to 30 tons of compressed CO<sub>2</sub> for 2x monthly transport

**Fully Enclosed Storage Silos** store buffer material between operations



# Recommended Actions

- Determine that the Addendum is the appropriate environmental documentation to comply with CEQA, pursuant to CEQA Guidelines Sections 15162 and 15164
- Approve the Development Review Permit