27177 MISSION BOULEVARD HAYWARD, CA APRIL 30, 2021



Building Data

Occupancy Type: 3-story Residential: R-3 & U

4-story Residential: R-2 & U Construction Type:

3-Story: Type V-B 4-Story: Type V-A APPLICANT:

TTLC MOREAU-PESTANA/ACTON, LLC 12647 ALCOSTA BLVD., SUITE 470 SAN RAMON, CA 94583 ATN: KELLY RUTCHENA 925-380-1210

SDG ARCHITECTS, INC. 3361 WALNUT BLVD., SUITE 120 BRENTWOOD, CA 94513 ATTN. SCOTT PRICKETT 925-634-7000

ARCHITECT:

CIVIL ENGINEER:

CARLSON BARBEE & GIBSON 2633 CAMINO RAMON, SUITE 350 SAN RAMON, CA 94583 ATTN. COLT ALVARNAZ 925-866-0322

LANDSCAPE ARCHITECT:

R3 STUDIOS, INC. 201 4TH STREET, SUITE 108 OAKLAND, CA 94607 ATTN. ROMAN DE SOTA 510-808-5782

Building Areas

	Gross Living Area SF	Garage Area SF	Total Area SF	Private Open Space SF
Building 1	13,530	2,742	16,272	2,678
Building 2	6,210	816	7,026	1,074
Building 3	7,639	1,822	9,461	403
Building 4-10	11,406	2,733	14,139	619

Unit Mix

Unit Name	Description	Garage Type	Garage Size SF	Quantity	Unit Gross SF	Total Unit Gross SF	Private Open Space SF	Total Private Open Space SF
LiveWork Plan 1	3 BR + 2.5 B with Flex + 1 Bath	1-car	272	4	2,070	8,280	358	1,432
LiveWork Plan 2	3 BR + 2.5 B with Flex + 1 Bath	2-car Tandem	494	5	2,292	11,460	464	2320
Townhome Plan 1	3 BR +2.5 B	2-car Tandem	477	15	1,761	26,415	159	2,385
Townhome Plan 2	3 BR +2.5 Bath	2-car Standard	434	15	2,012	30,180	57	1,311
Townhome Plan 3	3 BR +2.5 Bath	2-car Tandem	477	8	1,807	14,456	111	888
Townhome Plan 4	3 BR +2.5 Bath	2 Car Standard	434	- 8	2,059	16,472	76	608
Subtotal				55		107,263	1225	8,944

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A2 LIVEWORK UNIT 2 FLOOR PLANS

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A4 TOWNHOMES UNITS 1 & 2 FLOOR PLANS

A5 TOWNHOMES UNITS 3 & 4 FLOOR PLANS

A6 TOWNHOMES UNITS 3 & 4 FLOOR PLANS A7 LIVE/WORK 3-UNIT BUILDING ELEVATIONS

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C3.0 EXISTING CONDITIONS PLAN

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L-8.2 PLANTING DETAILS (PUBLIC)

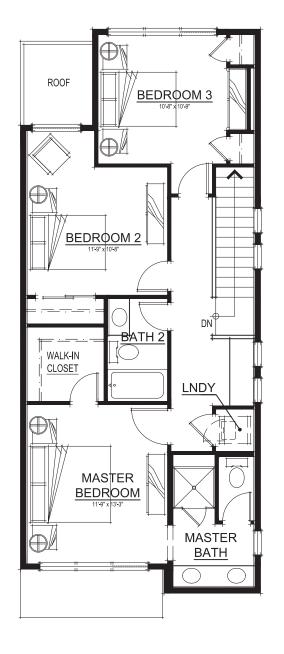
L-9.1 IRRIGATION DETAILS

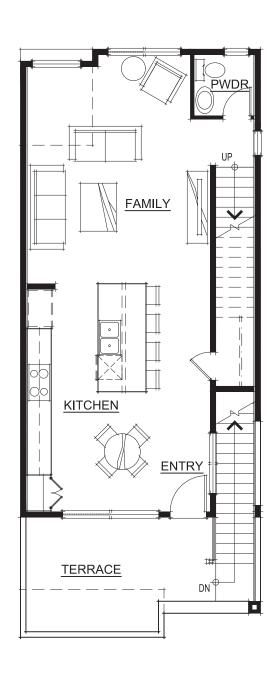
L-9.2 IRRIGATION DETAILS

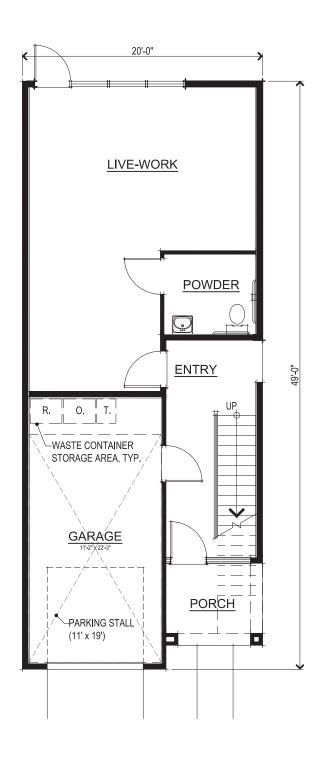
L-9.3 IRRIGATION DETAILS

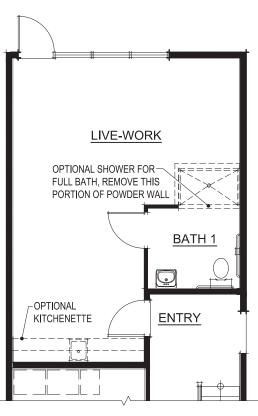
L-9.4 WATER USE CALCULATIONS

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Brentwood, CA 94513
925.634.7000 | sdgarchitectsinc.com









FIRST FLOOR OPTION

UNIT 1 SQUARE FOOTAGE UNIT 1 FIRST FLOOR 488 SQ. FT. UNIT 1 SECOND FLOOR 735 SQ. FT. UNIT 1 THIRD FLOOR 847 SQ. FT. UNIT 1 TOTAL LIVING 2070 SQ. FT. UNIT 1 GARAGE 272 SQ. FT. UNIT 1 PORCH 204 SQ. FT. UNIT 1 TERRACE 154 SQ. FT.

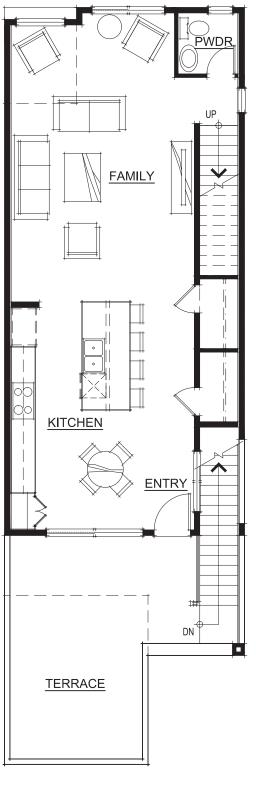


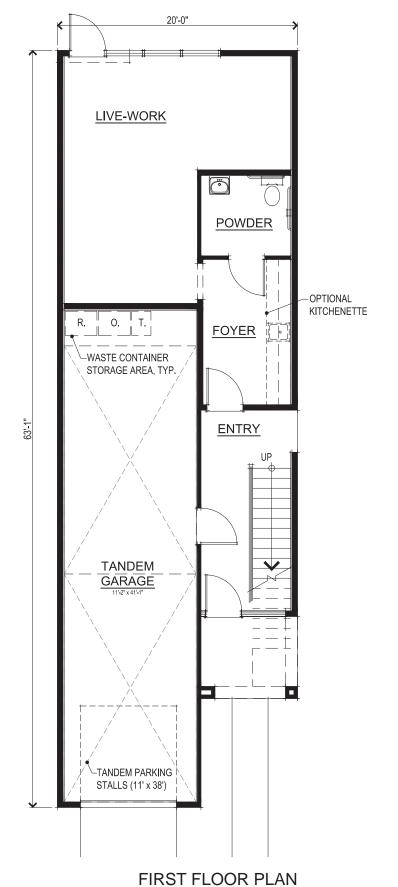
THIRD FLOOR PLAN SECOND FLOOR PLAN FIRST FLOOR PLAN

27177 MISSION BOULEVARD Hayward, CA APRIL 30, 2021

The True Life Companies 12647 Alcosta Blvd., Suite 470 San Ramon CA 94583 LIVEWORK UNIT 1 FLOOR PLANS







UNIT 2 SQUARE FOOTAGE UNIT 2 FIRST FLOOR 501 SQ. FT.

UNIT 2 SECOND FLOOR 840 SQ. FT. UNIT 2 THIRD FLOOR 951 SQ. FT. UNIT 2 TOTAL LIVING 2292 SQ. FT. UNIT 2 GARAGE 494 SQ. FT. UNIT 2 PORCH 193 SQ. FT.

UNIT 2 TERRACE 271 SQ. FT.

LIVEWORK UNIT 2 FLOOR PLANS



THIRD FLOOR PLAN

27177 MISSION BOULEVARD Hayward, CA APRIL 30, 2021

ROOF

BEDROOM 2

WALK-IN

CLOSET

MASTER BEDROOM

BEDROOM 3

BATH 2

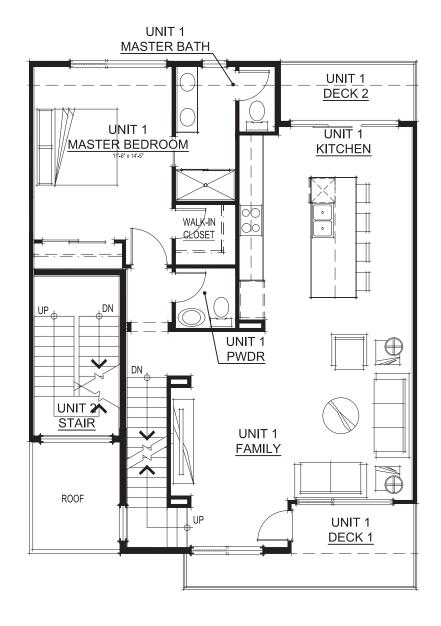
LNDY

MASTER **BATH**

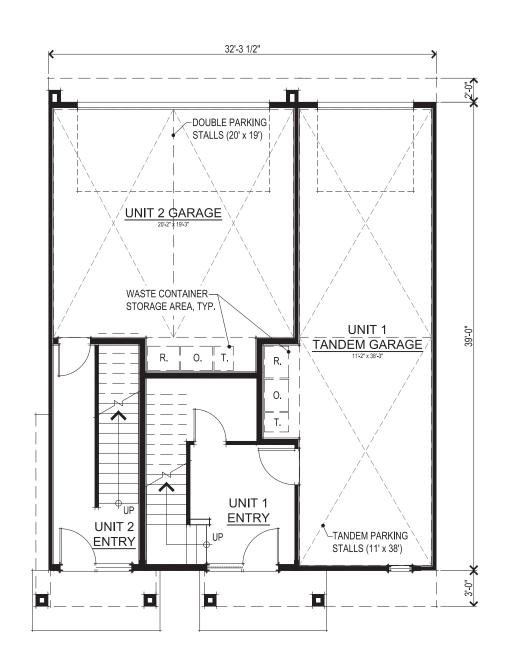
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SECOND FLOOR PLAN

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SECOND FLOOR PLAN



FIRST FLOOR PLAN

UNIT 1 SECOND FLOOR	1043 SQ. FT.
UNIT 1 THIRD FLOOR	521 SQ. FT.
UNIT 1 TOTAL LIVING	1761 SQ. FT.
UNIT 1 GARAGE	477 SQ. FT.
UNIT 1 DECK 1	102 SQ. FT.
UNIT 1 DECK 2	57 SQ. FT.
UNIT 2 SQUARE FOC	TAGE
UNIT 2 FIRST FLOOR	152 SQ. FT.
UNIT 2 SECOND FLOOR	110 SQ. FT.
UNIT 2 THIRD FLOOR	699 SQ. FT.
UNIT 2 FOURTH FLOOR	1051 SQ. FT.
UNIT 2 TOTAL LIVING	2012 SQ. FT.
UNIT 2 GARAGE	434 SQ. FT.
UNIT 2 DECK	57 SQ. FT.

UNIT 1 SQUARE FOOTAGE



197 SQ. FT.

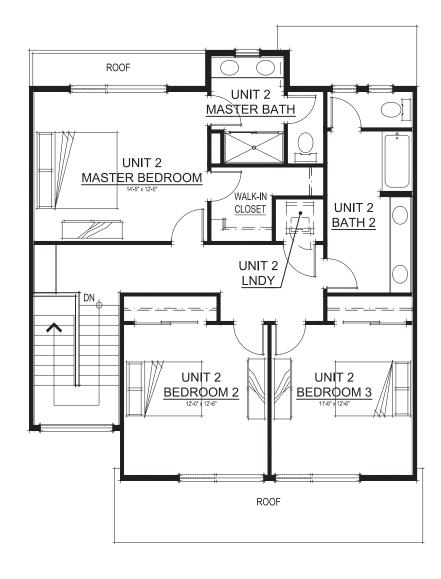
TOWNHOME UNITS 1 & 2 FLOOR PLANS

UNIT 1 FIRST FLOOR

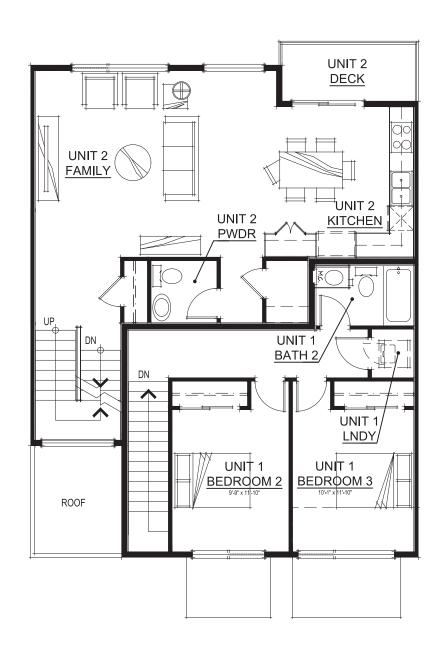


A3





FOURTH FLOOR PLAN



THIRD FLOOR PLAN

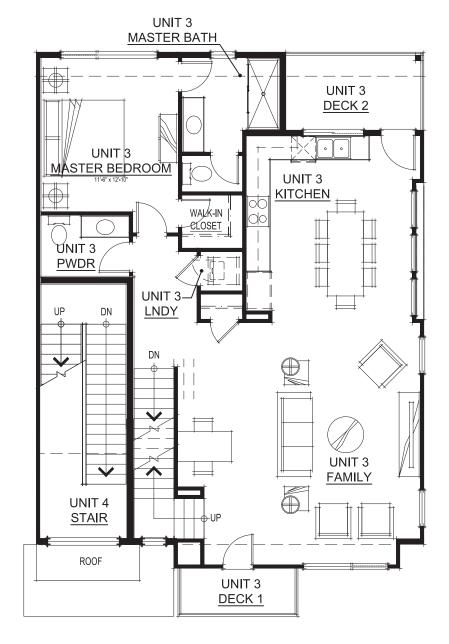
UNIT 1 FIRST FLOOR	197	SQ.	FT.
UNIT 1 SECOND FLOOR	1043	SQ.	FT.
UNIT 1 THIRD FLOOR	521	SQ.	FT.
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UNIT 2 SECOND FLOOR	110	SQ.	FT.
UNIT 2 THIRD FLOOR	699	SQ.	FT.
UNIT 2 FOURTH FLOOR	1051	SQ.	FT.
UNIT 2 TOTAL LIVING	2012	SQ.	FT.
UNIT 2 GARAGE	434	SQ.	FT.
UNIT 2 DECK	57	SQ.	FT.

UNIT 1 SQUARE FOOTAGE

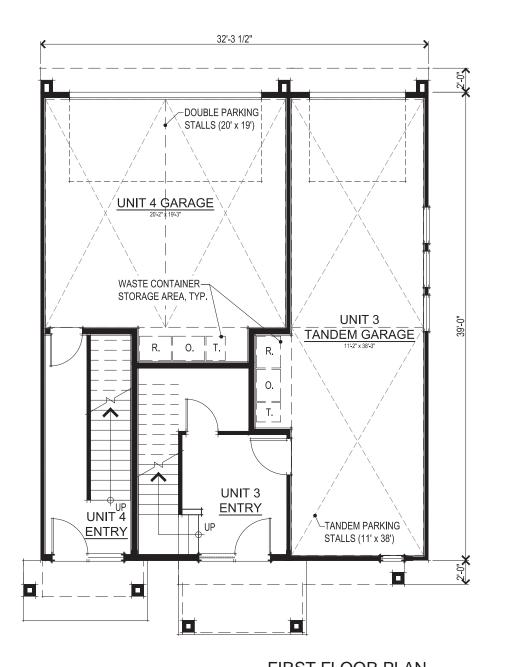


TOWNHOME UNITS 1 & 2 FLOOR PLANS





SECOND FLOOR PLAN



FIRST	FLO	OR	PLAN
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UNIT 3 FIRST FLOOR	197 SQ. FT.
UNIT 3 SECOND FLOOR	1117 SQ. FT.
UNIT 3 THIRD FLOOR	493 SQ. FT.
UNIT 3 TOTAL LIVING	1807 SQ. FT.
UNIT 3 GARAGE	477 SQ. FT.
UNIT 3 DECK 1	36 SQ. FT.
UNIT 3 DECK 2	75 SQ. FT.
UNIT 4 SQUARE FO	OOTAGE
UNIT 4 FIRST FLOOR	152 SQ. FT.
UNIT 4 SECOND FLOOR	113 SQ. FT.
UNIT 4 THIRD FLOOR	711 SQ. FT.
UNIT 4 FOURTH FLOOR	1083 SQ. FT.
UNIT 4 TOTAL LIVING	2059 SQ. FT.
UNIT 4 GARAGE	434 SQ. FT.
UNIT 4 DECK	76 SQ. FT.

UNIT 3 SQUARE FOOTAGE

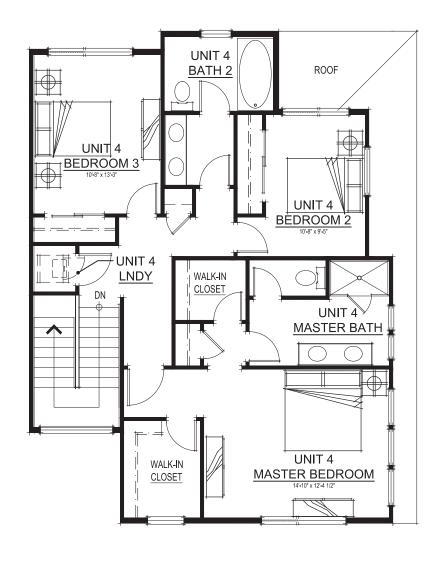


TOWNHOME UNITS 3 & 4 FLOOR PLANS

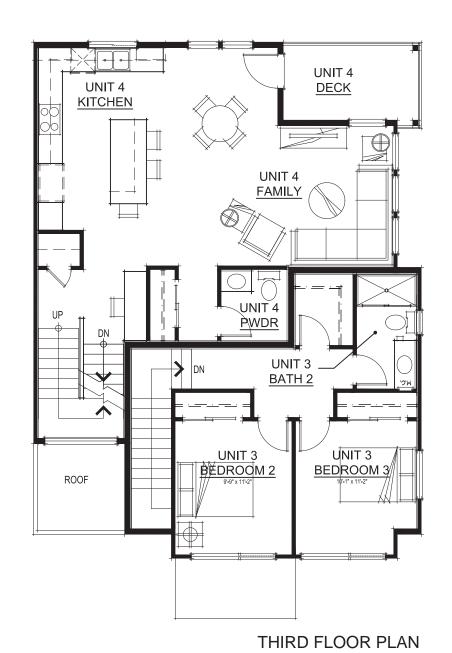
A5







FOURTH FLOOR PLAN



UNIT 3 SQUARE FO	OTAGE
UNIT 3 FIRST FLOOR	197 SQ. FT.
UNIT 3 FIRST FLOOR	197 SQ. FT.
UNIT 3 THIRD FLOOR	493 SQ. FT.
UNIT 3 TOTAL LIVING	1807 SQ. FT.
UNIT 3 GARAGE	477 SQ. FT.
UNIT 3 DECK 1	36 SQ. FT.
UNIT 3 DECK 2	75 SQ. FT.
UNIT 4 SQUARE FO	OTAGE
UNIT 4 FIRST FLOOR	152 SQ. FT.
UNIT 4 SECOND FLOOR	113 SQ. FT.
UNIT 4 THIRD FLOOR	711 SQ. FT.
UNIT 4 FOURTH FLOOR	1083 SQ. FT.
UNIT 4 TOTAL LIVING	2059 SQ. FT.
UNIT 4 GARAGE	434 SQ. FT.
UNIT 4 DECK	76 SQ. FT.



TOWNHOME UNITS 3 & 4 FLOOR PLANS









REAR ELEVATION



LEFT ELEVATION



MATERIALS

VERTICAL FIBER CEMENT SIDING THIN BRICK VENEER EXTERIOR PLASTER WITH LIGHT SAND FINISH METAL SUSPENDED CANOPIES HORIZONTAL SLAT RAILINGS DARK BRONZE ALUMINUM STOREFRONT DOORS & GLAZING SYSTEM

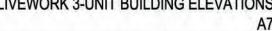


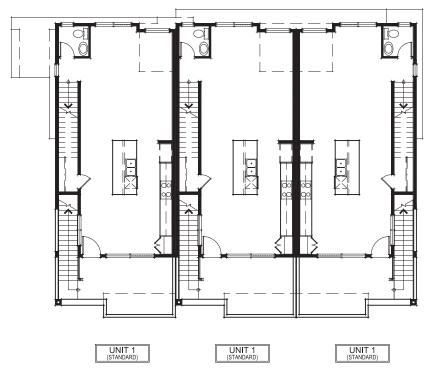
LIVEWORK 3-UNIT BUILDING ELEVATIONS



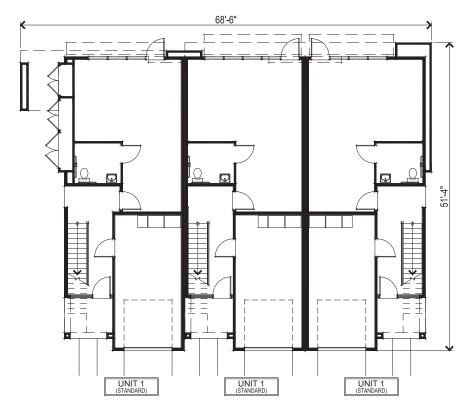
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27177 MISSION BOULEVARD





SECOND FLOOR PLAN

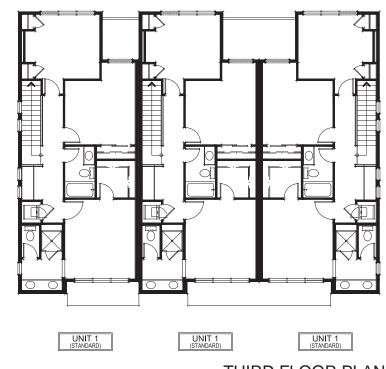


FIRST FLOOR PLAN



LIVEWORK 3-UNIT BUILDING FLOOR PLANS

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THIRD FLOOR PLAN

27177 MISSION BOULEVARD Hayward, CA APRIL 30, 2021











MATERIALS
VERTICAL FIBER CEMENT SIDING
THIN BRICK VENEER
EXTERIOR PLASTER WITH LIGHT SAND FINISH
METAL SUSPENDED CANOPIES
HORIZONTAL SLAT RAILINGS
DARK BRONZE ALUMINUM STOREFRONT
DOORS & GLAZING SYSTEM

0 2 4 6 8 1

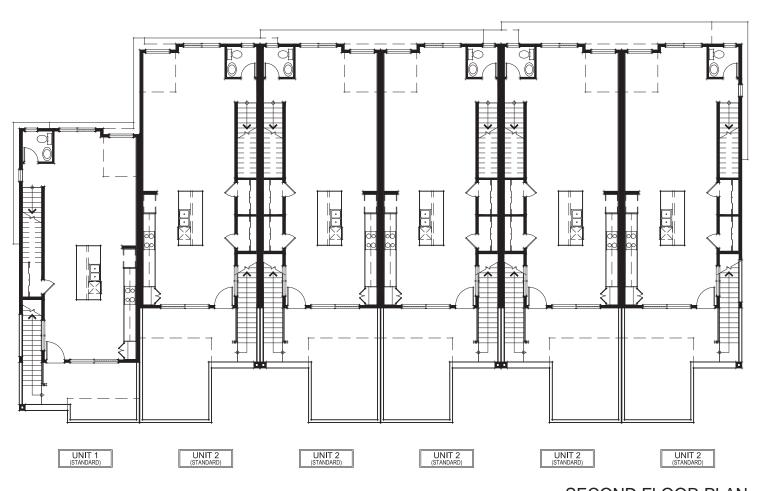
LIVEWORK 6-UNIT BUILDING ELEVATIONS

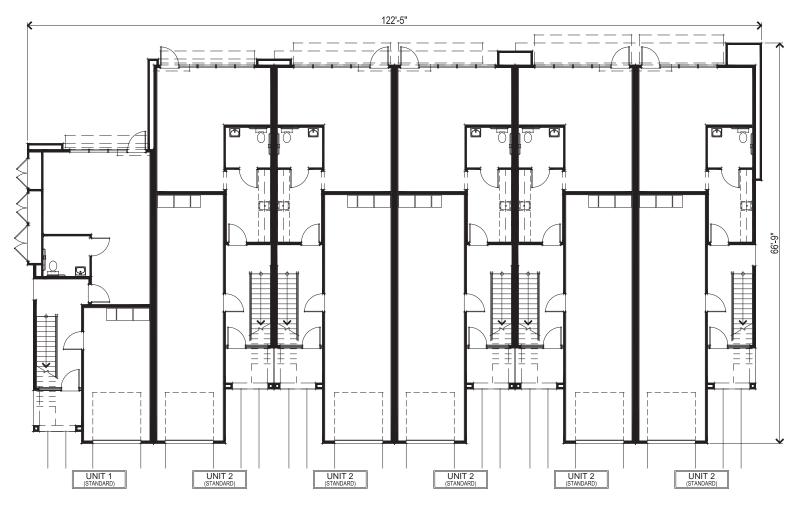


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SECOND FLOOR PLAN

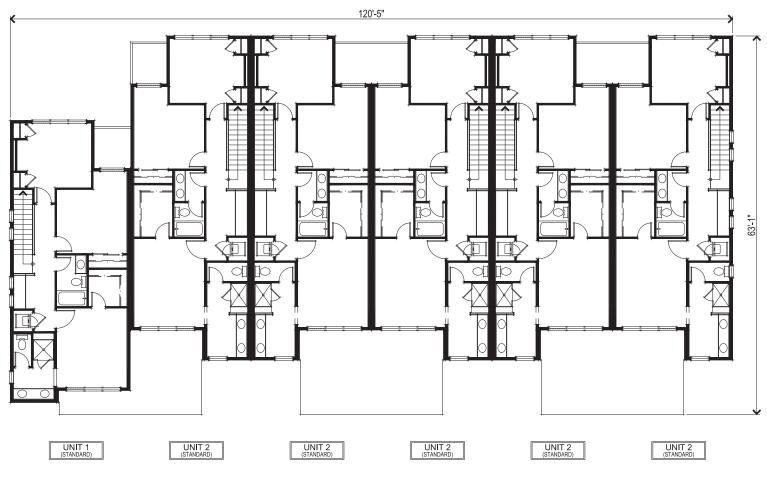
FIRST FLOOR PLAN



LIVEWORK 6-UNIT BUILDING FLOOR PLANS

A10





THIRD FLOOR PLAN



LIVEWORK 6-UNIT BUILDING FLOOR PLANS

A11

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REAR ELEVATION



LEFT ELEVATION

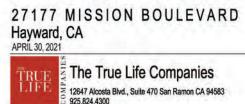


FRONT ELEVATION

MATERIALS HORIZONTAL FIBER CEMENT SIDING EXTERIOR PLASTER WITH LIGHT SAND FINISH METAL RAILINGS METAL AWNINGS

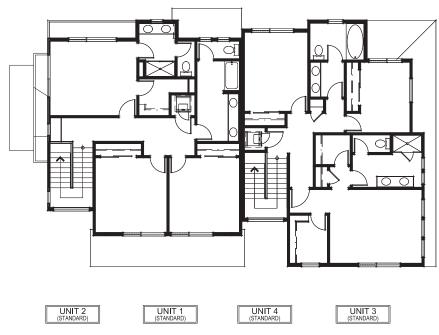


TOWNHOME 4-UNIT BUILDING ELEVATIONS A12



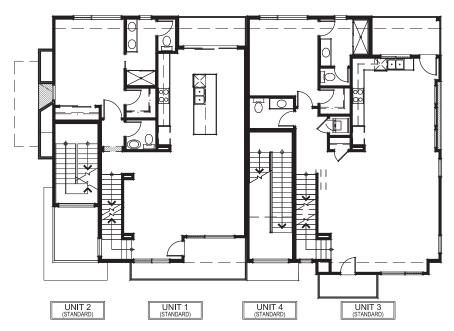
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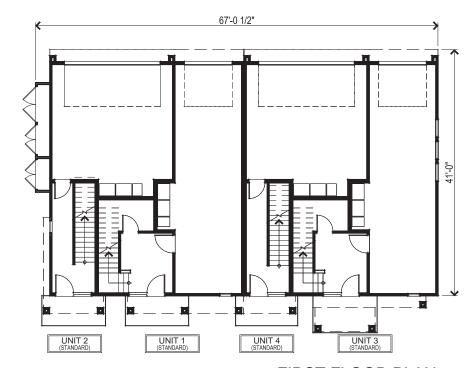


FOUTH FLOOR PLAN





SECOND FLOOR PLAN



FIRST FLOOR PLAN



TOWNHOME 4-UNIT BUILDING FLOOR PLANS











REAR ELEVATION

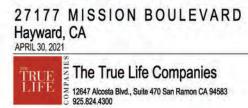


LEFT ELEVATION

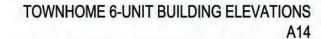


FRONT ELEVATION

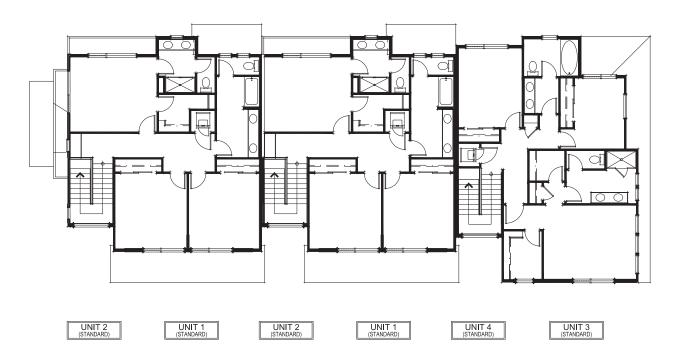




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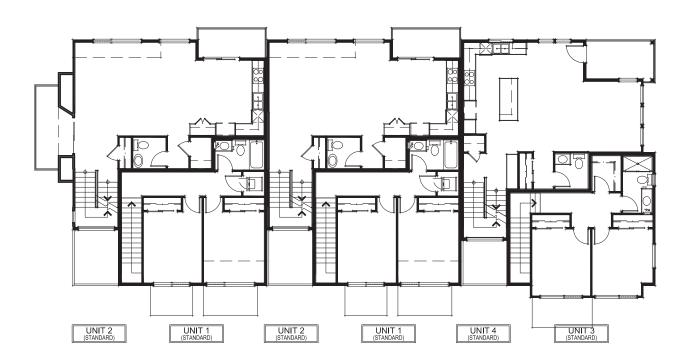




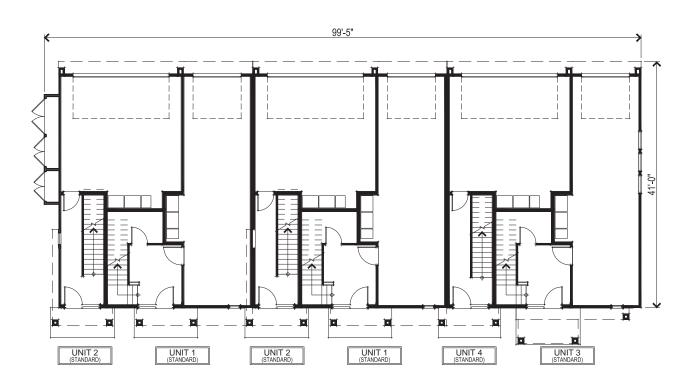
FOURTH FLOOR PLAN



SECOND FLOOR PLAN



THIRD FLOOR PLAN



FIRST FLOOR PLAN



TOWNHOME 6-UNIT BUILDING FLOOR PLANS

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4-STORY STACKED TOWNHOMES - FRONT



BRICK VENEER H.C. MUDDOX THIN BRICK: TUMBLEWEED



VERTICAL SIDING FIBER CEMENT BOARD AND BATTEN



HORIZONTAL SIDING FIBER CEMENT LAP SIDING, CEDARMILL TEXTURE



4 STUCCO LIGHT SAND FINISH



SCHEMES



5 STEEL FRAMED RAILING



6 LED SURFACE MOUNT FIXTURE



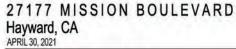
CONTEMPORARY WALL SCONCE



COMPOSITION SHINGLE ROOFING CERTAINTEED - WEATHERED WOOD



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REACH CODE CHECKLIST

FOR NEW RESIDENTIAL BUILDINGS 3 STORIES OR LESS

The Reach Code is a local ordinance adopted in Hayward which modifies the CA Energy Code to reduce natural gas use in new construction. The Reach Code also amends CalGreen to expand the requirements for Electric Vehicle (EV) ready paring spaces. For residential buildings taller than 3 stories or hotelfunches, please use the Reach Code Checklist for High-Rise Residential and Hotel/Motel. For all types of new commercial buildings, please use the Reach Code Checklist and Commercial Buildings. For checklists, background information and the full text of the Reach Code, please see the City of Hayward website here: https://www.hayward-ca.gov/reach-code

PART 1: ENERGY EFFICIENCY AND ELECTRIFICATION

- Is the building an accessory dwelling unit (ADU) that is 400 square feet or less?

 YES XI NO
 If you checked "yes", the electrification provisions of this ordinance do not apply. Continue to PART 2. If you checked "no", continue below.

 If you checked "no", continue below.
- THE DESIGN FOR THE BUILDING SHALL INCLUDE THE FOLLOWING:
- theck each item as you confirm it in the plans)
- All-electric end uses
- ☐ No fuel gas (such as natural gas or propane) appliances (use heat pumps for water heaters and
- □ Compliance with CA Energy Code

PART 2: EV CHARGING READINESS - ONE AND TWO-FAMILY DWELLINGS AND TOWNHOMES WITH

- Does the new building include an attached garage? ☑ YES ☐ NO
- If you checked "no", parts 2 and 3 do not apply to your project. If you checked "yes", continue below. Is the project a multi-family dwelling (3 or more dwelling units)? XI YES NO IF OR THE OR THE ORDER OF THE ORDER OF THE ORDER OF THE ORDER OR THE ORDER ORD
- EACH DWELLING UNIT SHALL HAVE TWO LEVEL 2 EV READY PARKING SPACES¹. LEVEL 2 EV Ready Spaces
- shall include the following:

 X
 Provide a complete electric circuit with 208/240 volt, 40-ampre capacity with an overprotection device.
- Provide a minimum of 1-inch diameter raceway. This raceway may include multiple circuits as allowed by
- the California Electrical Code.

 ☑ Include electrical single line drawings and/or specifications on the plans.
- ADJACENT TO THE PARKING SPACE, PROVIDE EITHER ONE OF THE FOLLOWING:

¹ For dwelling units that have only one parking space, only one Level 2 EV Ready Parking Space is required.

layward City Hall 777 8 Street Hayward CA, 94541-5007 Phone: 510-583-4140 Website: www.hayward-ca.gov Permit Center Hours: Please see website for operating hours

- ☑ OPTION A: Provide an outlet adjacent to the parking space labelled "ELECTRIC VEHICLE OUTLET" with at least 1/2-inch font.
- OPTION B*: Provide electric vehicle supply equipment with a minimum capacity of 30 amperes.

*Using aption B for one space counts for 2 EV ready spaces. By installing 1 actual charger, you do not need to install on EV ready space as well in a 2-car garage.

PART 3: EV CHARGING READINESS - MULTI-FAMILY BUILDINGS (3 TO 20 DWELLING UNITS)

- Does the multi-family building have less than or equal to 20 dwelling units?

 ▼ YES □ NO

 NO If yes, complete this section and then see PART 5. If no, skip this section and continue to PART 4.
- ONE PARKING SPACE PER DWELLING UNIT SHALL BE A LEVEL 2 EV READY SPACE. For example, if a dwelling unit has a 2-car garage, only one space must be Level 2 EV Ready. LEVEL 2 EV Ready Spaces shall include the following:
- Provide a complete electric circuit with 208/240 volt. 40-ampre capacity with an overprotection device
- Provide a complete electric circuit with 208/240 volt, 40-anner capacity with an overprotection device.
 Provide a minimum of 31-inch diagneter raceway. This raceway may include multiple circuits as allowed by the California Electrical Code.
 Include electrical single line drawings and/or specifications on the plans.
 Provide a table on the cover sheet listing the total number of parking spaces and the number of EV ready spaces or spaces with optional electric vehicle supply equipment.
- ADJACENT TO THE PARKING SPACE, PROVIDE FITHER ONE OF THE FOLLOWING:
- O OPTION At: Provide an outlet adjacent to the paring space label of "ELETING VEHICLE OUTLET" with at least 1,7-inch font.

 OPTION B: Provide electric vehicle supply equipment with a minimum capacity of 30 amperes.

PART 4: EV CHARGING READINESS - MULTI-FAMILY BUILDINGS (OVER 20 UNITS)

- Does the multi-family building have more than 20 dwelling units?
 YES X NO
 If yes, complete this section, then see PART 5. If no, see previous sections.
- 75% OF THE DWELLING UNITS WITH ONE OR MORE PARKING SPACES SHALL BE PROVIDED WITH AT LEAST
 ONE LEVEL 2 EV READY SPACE. Calculations for the required minimum number of Level 2 EV Ready spaces shall be rounded up to the nearest whole number. LeVEL 2 EV Ready spaces shall include the following:
- ☐ Provide a complete electric circuit with 208/240 volt, 40-ampre capacity with an overprotection device
- Provide a complete electric circuit win zoo/gav ovic, no ampre capacity with an overprotection tervice.

 Provide a minimum of 1-inch diameter razeway. This raceway may include multiple circuits as allowed by the California Electrical Code.

 Include electrical single film drawings and/or specifications on the plans.

 Provide a table on the cover sheet listing the total number of parking spaces and the number of EV ready spaces or spaces with optional electric vehicle supply equipment.

- ADJACENT TO THE PARKING SPACE, PROVIDE EITHER ONE OF THE FOLLOWING:

 OPTION A: Provide an outlet adjacent to the parking space labelled "ELECTRIC VEHICLE OUTLET" with at least 1/2-inch font.

 OPTION B: Provide electric vehicle supply equipment with a minimum capacity of 30 amperes.

- THE REMAINING 25% OF UNITS SHALL BE PROVIDED WITH AT LEAST ONE LEVEL 2 EV CAPABLE SPACE.
- A parking space linked to an electrical panel with sufficient capacity to provide at least 208/240 volts and 40
- amperes to the parking space.

 Raceways linking the electrical panel and parking space only need to be installed in spaces that will be inaccessible in the future, either trenched underground, or where penetrations to walls, floors or other partitions would otherwise be required for future installation of branch circuits. Raceways must be at least one inch in diameter and may be sized for multiple circuits as allowed by the California Electrical Code.

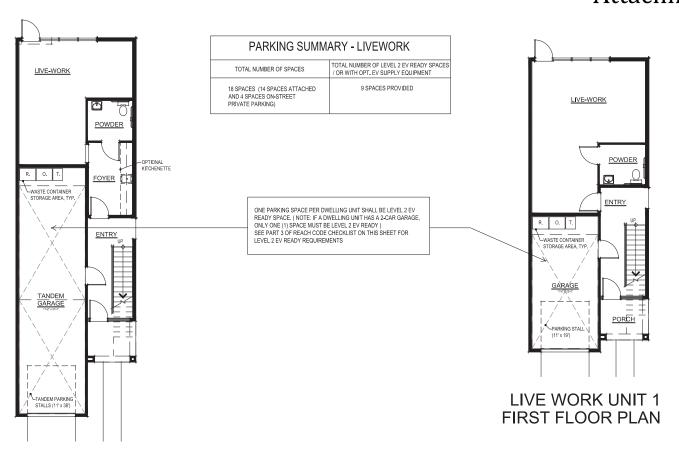
 The panel circuit directory shall identify the overcurrent protective device spaces(s) reserved for EV charging as "EV CAPARIE". Construction documents shall indicate future completion of raceway from the panel to the parking space, via the installed inaccessible raceways.

PART 5: ADDITIONAL NOTES AND EXCEPTIONS FOR MULTI-FAMILY BUILDINGS

- Equipment subject to review of the authority having jurisdiction.
- 2. The requirements apply to multifamily buildings with parking spaces including:
- A. Assigned residential parking.
 In order to adhere to accessibility requirements in accordance with the California Building Code Chapters 11A and/or 11B, it is recommended that all accessible parking spaces for covered newly constructed multifamily dwellings are provided with Level 2 EV Ready Spaces.
- 4. If a building permit applicant provides documentation detailing that the increased cost of utility service or onite transformer capacity would exceed an average of \$4,500 among parking spaces with Level 2 EV Ready spaces, the applicant shall provide EV infrastructure up to a level that would not exceed this cost for utility service or on-site transformer capacity.

PART 6: SIGNATURE LINE	
This form has been completed by:	
Signature	Date

Attachment IV

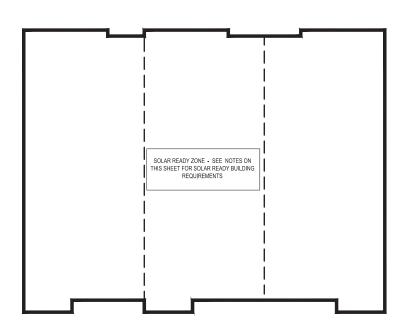


LIVE WORK UNIT 2 FIRST FLOOR PLAN

SOLAR READY NOTES

- MANDATORY REQUIREMENTS UNDER 2019 CALIFORNIA ENERGY CODE SECTION 110.10(a) FOR SOLAR READY BUILDINGS ARE APPLICABLE FOR THIS PROJECT AS FOLLOWS:
- MINIMUM AREA THE SOLAR ZONE SHALL COMPLY WITH ACCESS, PATHWAY, SMOKE VENTILATION AND SPACING REQUIREMENTS AS SPECIFIED IN TITLE 24, PART 9 OR OTHER PARTS OF TITLE 24 AS SPECIFIED IN TITLE 24, PART 9 OR OTHER PARTS OF TITLE 24 OR IN ANY REQUIREMENTS ADOPTED BY A LOCAL JURISIONITION THE SOLAR ZONE TOTAL AREA SHALL BE COMPRISED OF AREAS THAT THAY NO DIMENSION LESS THAN PIVE FEET AND ARE NO LESS THAN BO SOLVARE FEET EACH FOR BUILDINGS WITH ROOF AREAS LESS THAN OR EQUAL TO 10,000 SOUARE FEET OR NO LESS THAN 160 SQUARE FEET EACH FOR BUILDINGS WITH ROOF AREAS GREATER THAN 10,000 SQUARE FEET.
- B. LOW RISE AND HIGH RISE MULTI FAMILY BUILDINGS THE SOLAR ZONE SHALL BE LOCATED ON THE ROOF OR OVERHANG OF THE BUILDING OR ON THE ROOF OR OVERHANG OF ANOTHER STRUCTURE LOCATED WITHIN 250 FEET OF THE BUILDING OR ON COVERED PARKING INSTALLED WITHIN THE BUILDING PROJECT, AND SHALL HAVE A TOTAL AREA NO LESS THAN 15 PERCENT OF THE TOTAL ROOF AREA OF THE BUILDING EXCLUDING ANY SKYLIGHT AREA.
- 2. ORIENTATION ALL SECTIONS OF THE SOLAR ZONE LOCATED ON STEEP-SLOPED ROOFS SHALL BE ORIENTED BETWEEN 90
 DEGREES AND 300 DEGREES OF TRUE NORTH
- A. NO OBSTRUCTIONS, INCLUDING BUT NOT LIMITED TO, VENTS, A. NO DESTRUCTIONS, INCLUDING BUT NOT LIMITED TU, VENTS, CHIMINEYS, ARORHITECTURAL FEATURES AND ROOF MOUNTED EQUIPMENT, SHALL BE LOCATED IN THE SOLAR ZONE.

 B. ANY OBSTRUCTION, LOCATED ON THE ROOF OR ANY OTHER PART OF THE BUILDING THAT PROJECTS ABOVE A SOLAR ZONE SHALL BE LOCATED AT LEAST TWICE THE DISTANCE, MEASURED IN THE HORIZONTAL PLANE, OF THE HEIGHT DESCRIPTION OF THE THE SOLAR TO SHALL BE LOCATED AT LEAST TWICE OF THE HEIGHT.
- DIFFERENCE BETWEEN THE HIGHEST POINT OF THE OBSTRUCTION AND THE HORIZONTAL PROJECTION OF THE NEAREST POINT OF THE SOLAR ZONE, MEASURED IN THE



LIVEWORK 3 UNIT BUILDING

SAME REQUIREMENTS APPLICABLE TO LIVEWORK 6 UNIT BUILDING

SUSTAINABILITY PLAN







REACH CODE CHECKLIST

OR NEW HIGH-RISE RESIDENTIAL (mor AND NEW HOTEL/MOTEL BUILDINGS (any number of stories)

The Reach Code is a local ordinance adopted in Hayward which modifies the CA Energy Code to reduce natural gas use in new construction. The Reach Code also amends CalGreen to expand the requirements for Electric Vehicle (EV) ready parking spaces. For new residential buildings 3 stories or less, pease use the Reach Code Checklist for New Residential Buildings, Place use the Reach Code Checklist for Commercial Buildings, places use the Reach Code Checklist for Commercial Buildings, Place use the Reach Code, please see the City of Hayward website here: https://www.hayward-ca.gov/reach-code

PART A: HIGH-RISE RESIDENTIAL (MORE THAN 3 HABITABLE STORIES) AND HOTEL / MOTEL BUILDINGS

The Reach Code requirements for these types of buildings offer two different approaches. One is an all-electric design and the other is a mixed fuel design. With the all-electric design, there is only a performance approach. Following the mixed fuel design, there are performance and prescriptive options. The checklists for each option are below. <u>Choose one option per building</u>. The first approach is the least complicated option.

CHECKLIST 1A - ALL ELECTRIC APPROACH

- ☐ The energy report for the new building shall be completed using the Performance Method with the current software approved by the CA Energy Commission.
- The project complies if the Proposed Design Building has an energy budget no greater than the Standard Design Building.
- ☐ No further requirements in Part A. Continue to Part B for EV parking requirements.

CHECKLIST 2A - MIXED FUEL - PERFORMANCE OPTION

- 🔯 The entire solar zone (see CEC section 110.10) shall have a solar PV system installed. exception: The PV system may be sized to cover less than the solar zone provided that the system is sized to generate annual electrical output equal to the building's modelled annual electric load.
- The energy report for the new building shall be completed using the Performance Method with the current software approved by the CA Energy Commission.
- The energy budget shall have a compliance margin of at least 10%* better than the Standard Design

Hayward City Hall 777 8 Street Hayward CA, 94541-5007 Phone: 510-583-4140 Website: www.hayward-ca.gov Permit Center Hours: Please see website for operating hours

exception: If the Certificate of Compliance is prepared by and signed by a Certified Energy Analyst and the energy budget for the Proposed design is no greater than the Standard Design Building, the

□ Continue to Part B for EV charging requirements.

CHECKLIST 3A - MIXED FUEL - PRESCRIPTIVE OPTION

- ☐ The entire solar zone (see CEC section 110.10) shall have a solar PV system installed. *exception: The PV system may be sized to cover less than the solar zone provided that the system is sized to generate annual electrical output equal to the building's modelled annual electric load.
- $\hfill\Box$ The energy report for the new building shall be completed using the Prescriptive Method. The building shall have constructed and installed systems and components meeting the applicable requirements of Sections 140.3 through 140.9 and additionally the following measures as applicable intended to exceed the remaining prescriptive requirements:
- Design VAV box minimum airflows to be equal to the zone ventilation minimums.
- 3. Include economizers and staged fan control in air handlers with a mechanical cooling capacity >
- 33,000 Btu/n.

 A Reduce lighting power density (watts/ft2) by 10% from that required from Table 140.6-C.

 In common areas, improve lighting without claiming any Power Adjustment Factor credits:

 a. Control daylight dimming plus off per Section 140.6(a)2.H
- Perform Institutional Tuning per Section 140.6(a)2.1
 Install one drain water heat recovery device per every three guest rooms that is field verified as specified in the Reference Appendix RA3.6.9.
- ☐ Continue to Part B for EV charging requirements.

PART B: EV CHARGING READINESS

CHECKLIST 1B - RESIDENTIAL BUILDINGS WITH 3 to 20 UNITS

- ONE PARKING SPACE PER DWELLING UNIT SHALL BE A LEVEL 2 EV READY SPACE. For example, if a dwelling unit has a 2-car garage, only one space must be Level 2 EV Ready. LEVEL 2 EV Ready Spaces shall include the following:
- Provide a complete electric circuit with 208/240 volt, 40-ampre capacity with an overprotection device.

- Provide a minimum of 1-inch diameter raceway. This raceway may include multiple circuits as allowed by
- Include electrical single line drawings and/or specifications on the plans
- Provide a table on the cover sheet listing the total number of parking spaces and the number of EV ready spaces or spaces with optional electric vehicle supply equipment.
- ADJACENT TO THE PARKING SPACE, PROVIDE EITHER ONE OF THE FOLLOWING:
- OPTION A: Provide an outlet adjacent to the parking space labelled "ELECTRIC VEHICLE OUTLET" with at OPTION B: Provide electric vehicle supply equipment with a minimum capacity of 30 amperes.

CHECKLIST 2B - RESIDENTIAL BUILDINGS WITH MORE THAN 20 UNITS

- 73% OF THE DWELLING UNITS WITH ONE OR MORE PARKING SPACES SHALL BE PROVIDED WITH AT LEAST ONE LEVEL 2 EV READY SPACE. Calculations for the required minimum number of Level 2 EV Ready spaces shall be rounded up to the nearest whole number. LEVEL 2 EV Ready Spaces shall include the following:
- Provide a complete electric circuit with 208/240 volt. 40-ampre capacity with an overprotection device □ Provide a complete electric circuit with 208/240 volt, 40-ampre capacity with an overprotection device.

 □ Provide a minimum of 1-inch diameter raceway. This raceway may include multiple circuits as allowed by the California Electrical Code.

 □ Include electrical single line drawings and/or specifications on the plans.

 □ Provide a table on the cover heeft listing the total number of parking spaces and the number of EV ready spaces or spaces with optional electric vehicle supply equipment.
- ADJACENT TO THE PARKING SPACE, PROVIDE EITHER ONE OF THE FOLLOWING
- ADJACENT TO THE PARKING SPACE, PROVIDE EITHER ONE OF THE POLLOWING:

 OPTION A: Provide an outlet adjacent to the paring space labelled "ELECTRIC VEHICLE OUTLET" with at least 1,7-inch font.

 OPTION B: Provide electric vehicle supply equipment with a minimum capacity of 30 amperes.
- THE REMAINING 25% OF UNITS SHALL BE PROVIDED WITH AT LEAST ONE LEVEL 2 EV CAPABLE SPACE. EV
- Capable Circuits include the following:

 a. A parking space linked to an electrical panel with sufficient capacity to provide at least 208/240 volts and 40 amperes to the parking space.

 B. Raceways linking the electrical panel and parking space only need to be installed in spaces that will be
- b. Raceways linking the electrical panel and parking space only need to be installed in spaces that will be inaccessible in the future, either trenched underground, or where penetrations to wails, floors or other partitions would otherwise be required for future installation of branch circuits. Raceways must be at least one inch in diameter and may be sized for multiple circuits as allowed by the California Electrical Code.
 c. The panel circuit directory shall identify the overcurrent protective device spaces(s) reserved for EV charging as "EV CAPABLE". Construction documents shall indicate future completion of raceway from the panel to the parking space, via the installed inaccessible raceways.

ADDITIONAL NOTES AND EXCEPTIONS FOR ALL MULTI-FAMILY BUILDINGS

- transformer costs associated with EV Charging Equipment subject to review of the authority having
- 2. The requirements apply to multifamily buildings with parking spaces including: a. Assigned or leased to individual dwelling units, and

- 3. In order to adhere to accessibility requirements in accordance with the California Building Code Chapters 11A and/or 11B, it is recommended that all accessible parking spaces for covered newly
- constructed multifamily dwellings are provided with Level 2 EV Ready Spaces.

 4. If a building permit applicant provides documentation detailing that the increased cost of utility service or on-site transformer capacity would exceed an average of \$4,500 among parking spaces with Level 2 EV Ready Spaces, the applicant shall provide EV infrastructure up to a level that would not exceed this cost for utility service or on-site transformer capacity.

CHECKLIST 3B - NEW HOTEL/MOTEL BUILDINGS

- ☐ When 10 or more parking spaces are constructed, 15% of the available parking spaces on site shall be when Ju or more parting payers are constructed, 12% or the available parking spaces on site shall be equipped with Level 2 EV Ready Spaces. Calculations for the required minimum number of spaces equipped with Level 2 EV Ready spaces shall be rounded up to the nearest whole number.

 *Exception: Installation of each Direct Current Fast Charger with the capacity to provide at least 80 kW output may substitute for 15 EV Ready spaces after a minimum of 15 Level 2 EV Ready spaces are
- LEVEL 2 EV Ready Spaces shall include the following:
- ☐ Provide a complete electric circuit with 208/240 volt, 40-ampre capacity with an overprotection device
- Provide a Unique execution and a conservation and a supervision of the California Electrical Code.

 Provide a Unique execution and the California Electrical Code.
 Include electrical Single line drawings and/or specifications on the plans.

 Provide a table on the cover sheet listing the total number of parking spaces and the number of EV ready spaces or spaces with optional electric vehicle supply equipment.

- 1. Facilities providing EV charging stations shall comply with CBC Ch. 11A or 11B for disabled access
- If a building permit applicant provides documentation detailing that the increased cost of utility service or on-site transformer capacity would exceed an average of \$4,500 among parking spaces with Level 2 EV Ready Spaces, the applicant shall provide EV infrastructure up to a level that would not exceed this cost for utility service or on-site transformer capacity.

PART C: SIGNATURE LINE	
This form has been completed by:	
Signature	Date

→ ENTRY UNIT STALLS (11' x 38')

UNIT 4 GARAGE

R. O. T.

UNIT 2 GARAGE UNIT 1 TANDEM GARAG R. O. T. → ENTRY UNIT STALLS (11' x 38")

TOWNHOME UNITS 3 AND 4 FIRST FLOOR PLAN TOWNHOME UNITS 1 AND 2 FIRST FLOOR PLAN

SOLAR READY NOTES

- MANDATORY REQUIREMENTS UNDER 2019 CALIFORNIA ENERGY APPLICABLE FOR THIS PROJECT AS FOLLOWS:
- MINIMUM AREA THE SOLAR ZONE SHALL COMPLY WITH ACCESS, PATHWAY, SMOKE VENTILATION AND SPACING REQUIREMENTS AS SPECIFIED IN TITLE 24, PART 9 OR OTHER PARTS OF TITLE 24 AS SPECIFIED IN THE ZEY, FAN I SON OTHER YAN I OF THE ZEY OR IN ANY REQUIREMENTS ADOPTED BY A LOCAL JURISDICTION THE SOLAR ZONE TOTAL AREA SHALL BE COMPRISED OF AREA OF THAT HAVE NO DIMENSION LESS THAN FIVE FEET AND ARE NO LESS THAN 80 SQUARE FEET EACH FOR BUILDINGS WITH ROOF AREAS LESS THAN OR EQUAL TO 10,000 SQUARE FEET OR NO LESS THAN 160 SQUARE FEET EACH FOR BUILDINGS WITH ROOF AREAS GREATER THAN 10,000 SQUARE FEET.
- B. LOW RISE AND HIGH RISE MULTI FAMILY BUILDINGS THE SOLAR ZONE SHALL BE LOCATED ON THE ROOF OR OVERHANG OF THE BUILDING OR ON THE ROOF OR OVERHANG OF ANOTHER STRUCTURE LOCATED WITHIN 250 FEET OF THE BUILDING OR ON COVERED PARKING INSTALLED WITHIN THE BUILDING PROJECT, AND SHALL HAVE A TOTAL AREA NO LESS THAN 15 PERCENT OF THE TOTAL ROOF AREA OF THE BUILDING EXCLUDING ANY SKYLIGHT AREA.

ORIENTATION - ALL SECTIONS OF THE SOLAR ZONE LOCATED ON STEEP-SLOPED ROOFS SHALL BE ORIENTED BETWEEN 90
DEGREES AND 300 DEGREES OF TRUE NORTH

PARKING SUMMARY - TOWNHOMES

ONE PARKING SPACE PER DWELLING UNIT SHALL BE LEVEL 2 EV

READY SPACE, (NOTE: IF A DWELLING UNIT HAS A 2-CAR GARAGE, ONLY ONE (1) SPACE MUST BE LEVEL 2 EV READY SEE PART B OF REACH CODE CHECKLIST ON THIS SHEET FOR LEVEL 2 EV READY REQUIREMENTS

TOTAL NUMBER OF SPACES

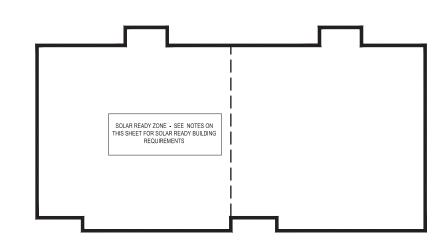
92 SPACES (ATTACHED PARKING

TOTAL NUMBER OF LEVEL 2 EV READY SPACES / OR WITH OPT. EV SUPPLY EQUIPMENT

46 SPACES PROVIDED

- A. NO OBSTRUCTIONS, INCLUDING BUT NOT LIMITED TO, VENTS,
- A. NO DESTRUCTIONS, INCLUDING BUT NOT LIMITED TU, VENTS, CHIMINEYS, ARORHITECTURAL FEATURES AND ROOF MOUNTED EQUIPMENT, SHALL BE LOCATED IN THE SOLAR ZONE.

 B. ANY OBSTRUCTION, LOCATED ON THE ROOF OR ANY OTHER PART OF THE BUILDING THAT PROJECTS ABOVE A SOLAR ZONE SHALL BE LOCATED AT LEAST TWICE THE DISTANCE, MEASURED IN THE HORIZONTAL PLANE, OF THE HEIGHT DESCRIPTION OF THE THE SOLAR TO SHALL BE LOCATED AT LEAST TWICE OF THE HEIGHT. DIFFERENCE BETWEEN THE HIGHEST POINT OF THE OBSTRUCTION AND THE HORIZONTAL PROJECTION OF THE NEAREST POINT OF THE SOLAR ZONE, MEASURED IN THE



TOWNHOME 4 UNIT BUILDING

SAME REQUIREMENTS APPLICABLE TO TOWNHOME 6 UNIT BUILDING

SUSTAINABILITY PLAN



27177 MISSION BOULEVARD Hayward, CA APRIL 30, 2021



GENERAL NOTES

ASSESSORS PARCEL NO.: 452-0056-007 & 452-0056-008

BENCHMARK: CITY OF HAYWARD BRASS DISK ON THE WHITMAN STREET OVERPASS OVER HARDER

ROAD, HAVING AN NGVD29 ELEVATION OF 68.64 FEET

THE BASIS OF BEARING FOR THIS SURVEY IS DETERMINED BY FOUND MONUMENTS ON BASIS OF BEARINGS: JEFFERSON STREET, THE BEARING BEING N58°09'37"E PER PARCEL MAP NO. 4134 (141

M 38).

OVERALL PROJECT AREA: GROSS: 2 43+ AC

NET: 1.70± AC (EXCLUDES PUBLIC AND PRIVATE ROADWAYS & PUBLIC TRAIL AREA)

TOTAL DWELLING UNITS: 55

OVERALL PROJECT 22.63 DU/AC (GROSS)

32.35 DU/AC (NET)

LOT COVERAGE: 36.3% FLOOR AREA RATIO: 1.0

GENERAL PLAN: SMU: SUSTAINABLE MIXED USE

10 ZONING: MB-CN: MISSION BOULEVARD CORRIDOR NEIGHBORHOOD - 17.5 TO 35 UNITS/NET ACRE

EXISTING LAND USE: COMMERCIAL /INDUSTRIAL

PROPOSED LAND USE:

12. FLOOD ZONE: ZONE X: AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLANE

SOURCE: FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), FLOOD INSURANCE RATE

MAP, MAP NUMBER 06001C0293G

DATE: AUGUST 3, 2009

ALL EXISTING BUILDINGS WITHIN THE PROJECT BOUNDARY TO BE REMOVED. 13. EXISTING STRUCTURES:

14. EXISTING UTILITIES: EXISTING UTILITIES WITHIN THE PROJECT BOUNDARY TO BE REMOVED AS NOTED.

15. EXISTING TREES: EXISTING TREES WITHIN THE PROJECT BOUNDARY TO BE REMOVED OR RELOCATED.

> ALL DRIVE AISLES WITHIN THE PROJECT WILL BE PRIVATE AND WILL BE PRIVATELY MAINTAINED BY THE HOMEOWNER'S ASSOCIATION. ALL PRIVATE STREETS WILL BE WITHIN

PUE'S. (MINIMUM LONGITUDINAL SLOPE=0.5%)

STREET TREES SHALL BE INSTALLED PER CITY DETAIL SD-122.

18. WALLS AND FENCING: ALL WALLS AND FENCING WILL BE PRIVATELY OWNED AND PRIVATELY MAINTAINED.

PROPOSED ONSITE STORM DRAIN FACILITIES WILL BE PRIVATE FACILITIES AND WILL BE

PRIVATELY MAINTAINED BY THE HOMEOWNER'S ASSOCIATION.

PROPOSED ONSITE WATER AND SANITARY SEWER FACILITIES ARE PUBLIC AND WILL BE WITHIN A SANITARY AND/OR WATER EASEMENT. PROPOSED WATER AND SANITARY
SEWER FACILITIES WILL BE CONSTRUCTED PER CITY OF HAYWARD STANDARDS AND

ALL LANDSCAPING WITHIN PROJECT BOUNDARY WILL BE PRIVATELY OWNED AND

22 WELLS ONSITE: NONE

23. SCHOOL DISTRICT: HAYWARD UNIFIELD SCHOOL DISTRICT

HAYWARD AREA RECREATION AND PARK DISTRICT 24. PARK DISTRICT:

25. UTILITIES: WATER: SEWER: GAS:

ELECTRIC:

GRADING:

28. MAINTENANCE:

TELEPHONE CABLE TV:

16. STREETS:

19. STORM DRAIN:

5 20 PUBLIC UTILITIES:

21 LANDSCAPING

CITY OF HAYWARD PG&E PG&E COMCAST

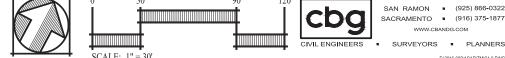
26. DIMENSIONS: ALL DIMENSIONS ARE PRELIMINARY AND SUBJECT TO FINAL MAP

PROPOSED GRADING AS SHOWN IS PRELIMINARY AND SUBJECT TO FINAL DESIGN.

A HOMEOWNERS ASSOCIATION WILL BE FORMED TO OWN AND MAINTAIN PRIVATE STREETS, DRIVE AISLES, PRIVATE UTILITIES, STORM DRAINAGE FACILITIES AND LANDSCAPE WITHIN ALL RESIDENTIAL AREAS. RETAIL SITE OWNER SHALL BE RESPONSIBLE TO MAINTAIN ALL PRIVATE AMENITIES ON THE RETAIL SITE.

A CONDOMINIUM MAP WILL BE RECORDED FOR THE RESIDENTIAL LOTS. THE SUBDIVISION IS A CONDOMINIUM PROJECT AS DEFINED IN SECTIONS 4125 AND 4285 OF THE CIVIL CODE OF THE STATE OF CALIFORNIA AND FILED PURSUANT TO THE SUBDIVISION MAP 29. CONDOMINIUM MAP:

TRACT 8556 - VESTING TENTATIVE MAP **LOTTING PLAN**





VICINITY MAP

NOT TO SCALE

DBA. TTLC MOREAU, LLC

SAN RAMON, CA 94583

SAN RAMON, CA 94583

CORNERSTONE EARTH GROUP

WALNUT CREEK, CA 94596

1220 OAKLAND BOULEVARD, SUITE 220

3361 WALNUT BOULEVARD, SUITE 120

(925) 380-1210

KELLEY RUTCHENA

(925) 866-0322 COLT ALVERNAZ, RCE 75740

(925) 988-9500

JOHN DYE, GE 2582

SDG ARCHITECTS, INC

BRENTWOOD, CA 94513

201 4TH STREET, SUITE 101B OAKLAND, CA 94607

(925) 634-7000 SCOTT PRICKETT

R3 STUDIOS INC

(510) 808-5782

ROMAN DE SOTA

TTLC MANAGEMENT, INC. AN ARIZONA CORP

12647 ALCOSTA BOULEVARD, SUITE 470

CARLSON, BARBEE & GIBSON, INC.

2633 CAMINO RAMON, SUITE 350

CONTACTS

DEVELOPER:

2. ENGINEER:

3. SOILS ENGINEER:

4. ARCHITECT:

5. LANDSCAPE ARCHITECT:



WWW.CBANDG.COM SURVEYORS PLANNERS

F:\3016-000\ACAD\TM\C1.0.DWG

12' PAE EASEMENT TO REMAIN 8,504 SF± PARCI 6,966 SF± E 7,699 SF± 10 PARCEL] 12.507 SF± HAYWARD UNIFIED SCHOOL DISTRICT 452-0056-009-02 BOULEVARD N63*43'17"E 100' PARCEL A (PRIVATE STREET EVAE, PUE, SSE, WLE) MISSION -FXISTING LOT LINE TO BE REMOVED 17. STREET TREES:

6,795 SF±

5,956 SF±

CHIN YEAN T & LUCILLE G TRS

452-0068-112

5.418 SF±

EXISTING PG&E-EASEMENT TO REMAIN

Ç ₩

6,820 SF±

OBERMAN JOSEPH F JR TR

452-0068-011-02

STEPAN JIRI & LAIYING TRS

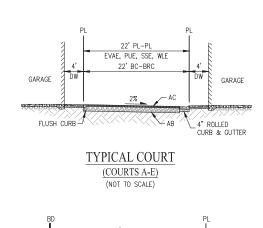
452-0056-006-00

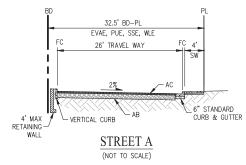
+65,0

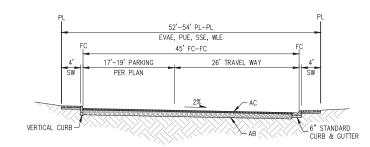
PARCEL D

6,806 SF±

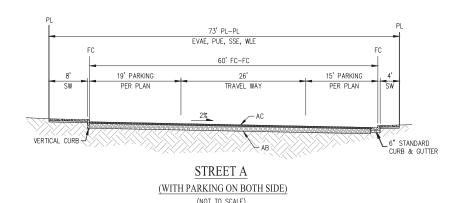
7.435 SF±





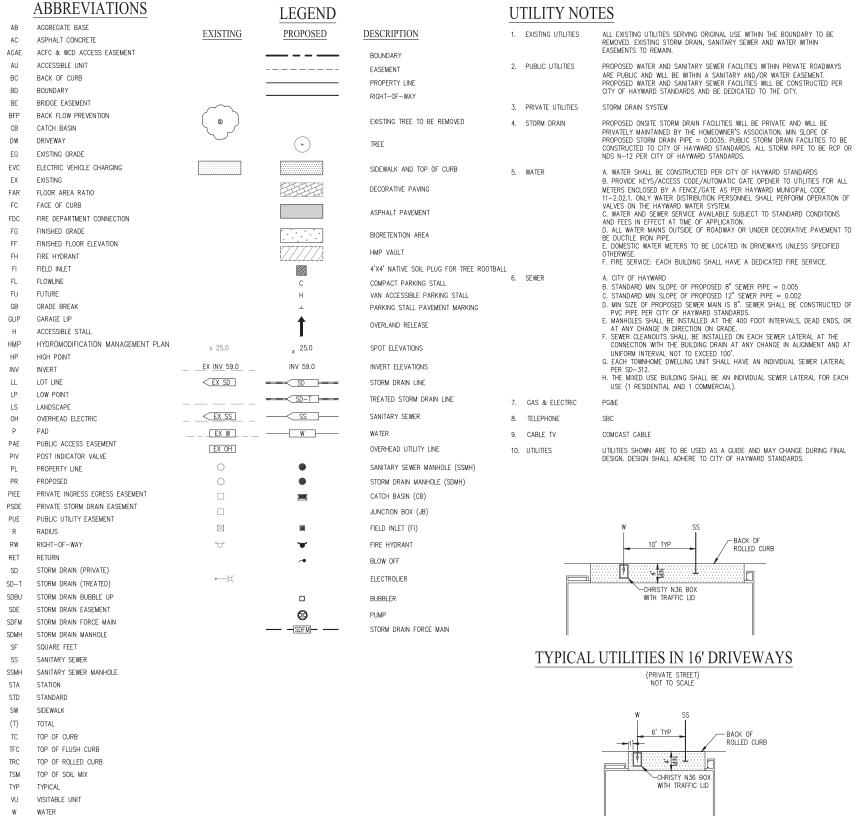


STREET A (WITH PARKING ON ONE SIDE) (NOT TO SCALE)



TRACT 8556 - VESTING TENTATIVE MAP LEGNEND, ABBREVIATIONS & TYPICAL SECTIONS

SAN RAMON . (925) 866-0322 cba SACRAMENTO • (916) 375-1877 SURVEYORS . PLANNERS F:\3016-000\ACAD\TM\C2.0.DWG



TYPICAL UTILITIES IN 8' DRIVEWAYS

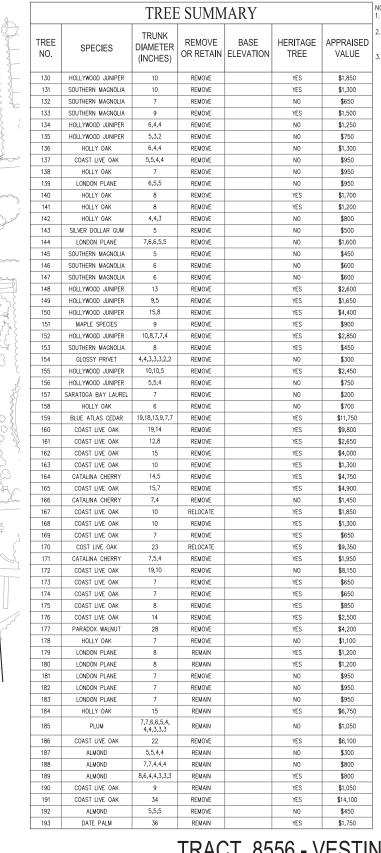
27177 MISSION BOULEVARD Hayward, CA

APRIL 2021

TTLC Management, Inc. an Arizona Corp.

WATER LINE EASEMENT

12647 Alcosta Blvd., Suite 470 San Ramon CA 94583

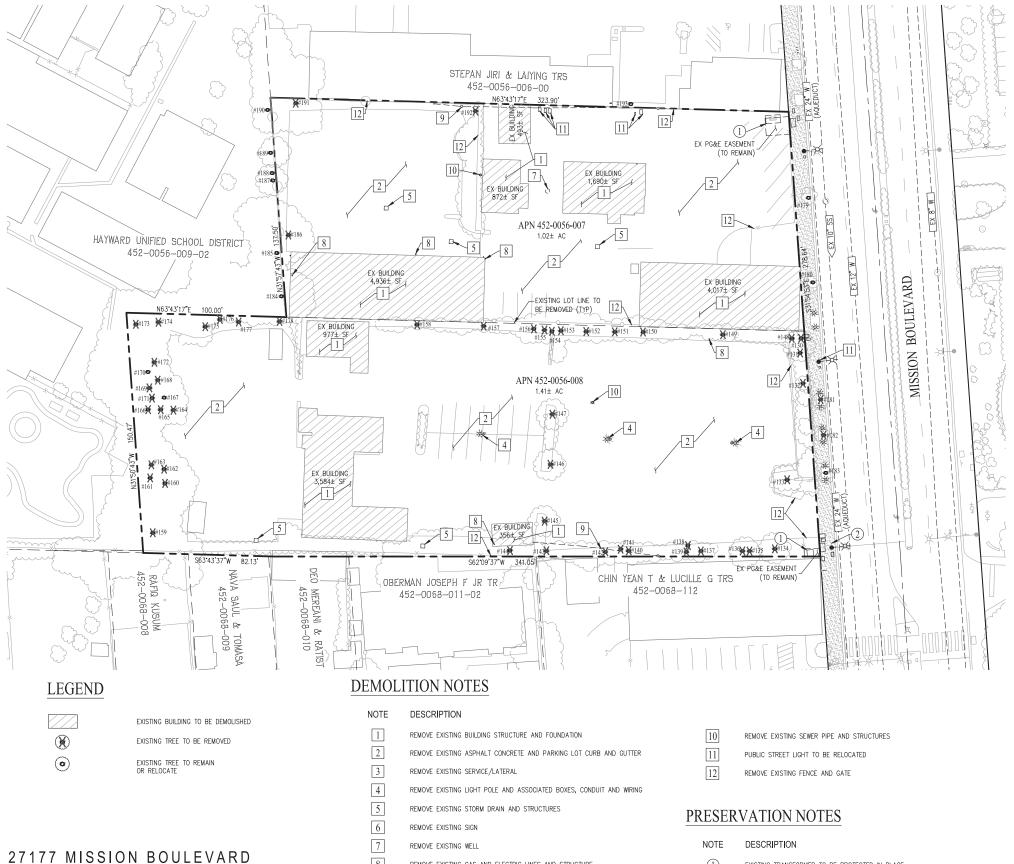


1.	PER TREE INVENTORY PREPARED BY HORT SCIENCE
1	ARBORIST SERVICES LLC DATED MARCH 5, 2020.
2.	ALL CITY STANDARD TREE PROTECTION MEASURES WILL
	BE OUTLINED DURING THE PREPARATION OF
	CONSTRUCTION DOCUMENTS.
3.	(*) INDICATES THAT THE TREES ARE IN ADJACENT
	PROPERTIES, WILL REMAIN AND SHOWN FOR
1	INFORMATION ONLY.

TRACT 8556 - VESTING TENTATIVE MAP **EXISTING CONDITIONS PLAN**

PLANNERS

SAN RAMON . (925) 866-0322 cba SACRAMENTO • (916) 375-1877



REMOVE EXISTING GAS AND ELECTRIC LINES AND STRUCTURE

REMOVE EXISTING POWER POLES AND OVERHEAD WIRES

1

2

EXISTING TRANSFORMER TO BE PROTECTED IN PLACE

EXISTING TRAFFIC SIGNAL TO BE PROTECTED IN PLACE

8

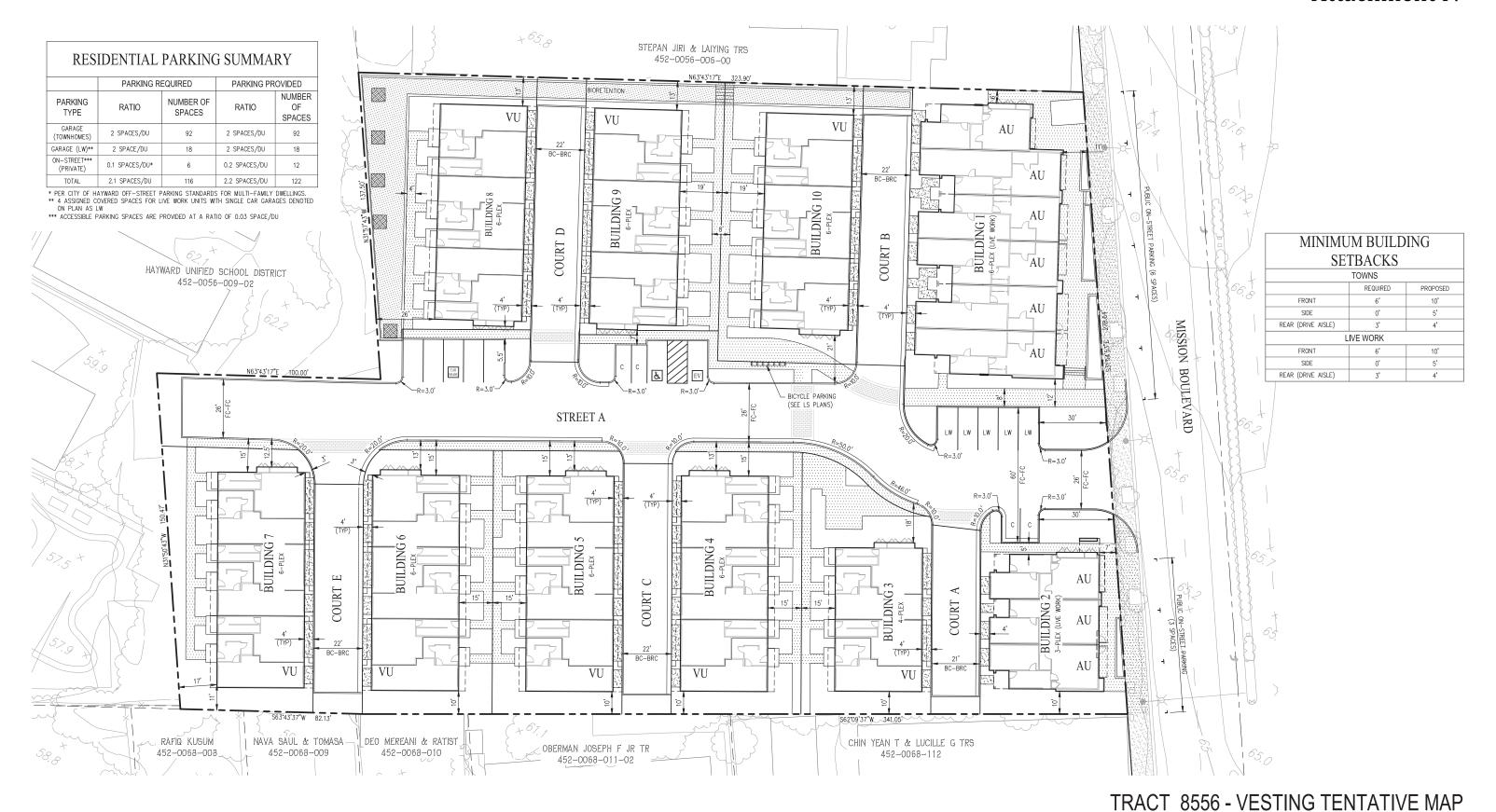
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TTLC Management, Inc. an Arizona Corp.

Hayward, CA

APRIL 2021

12647 Alcosta Blvd., Suite 470 San Ramon CA 94583

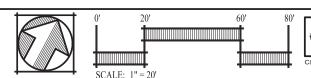


27177 MISSION BOULEVARD

Hayward, CA

TTLC Management, Inc. an Arizona Corp.

12647 Alcosta Blvd., Suite 470 San Ramon CA 94583 925.824.4300

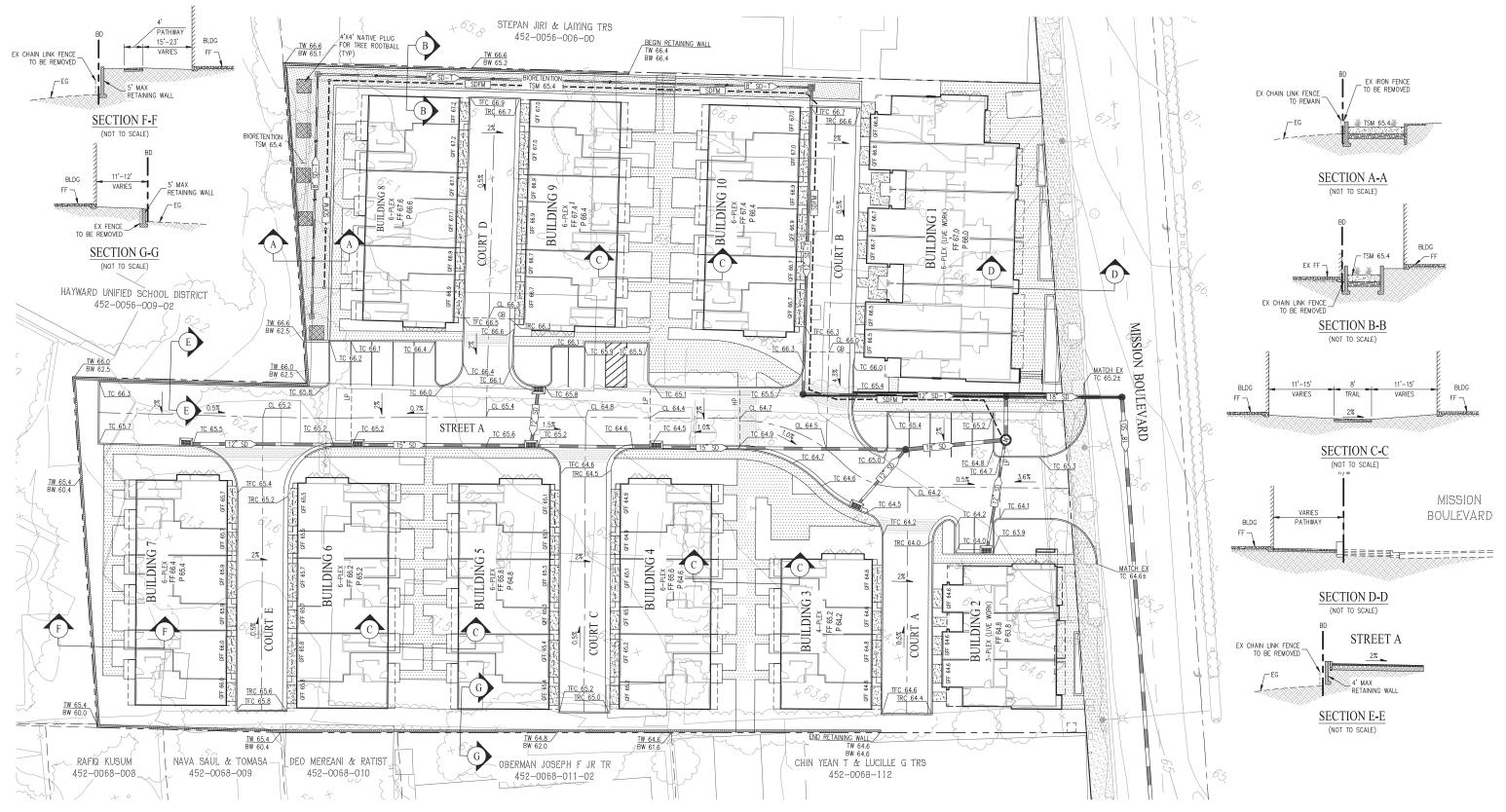




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SACRAMENTO • (916) 375-1877
WWW.GBANDG.COM

PRELIMINARY SITE PLAN

F:\3016-000\ACAD\TM\C4.0.DWG



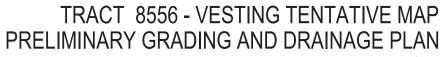
27177 MISSION BOULEVARD

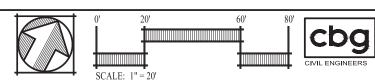
Hayward, CA

APRIL 2021

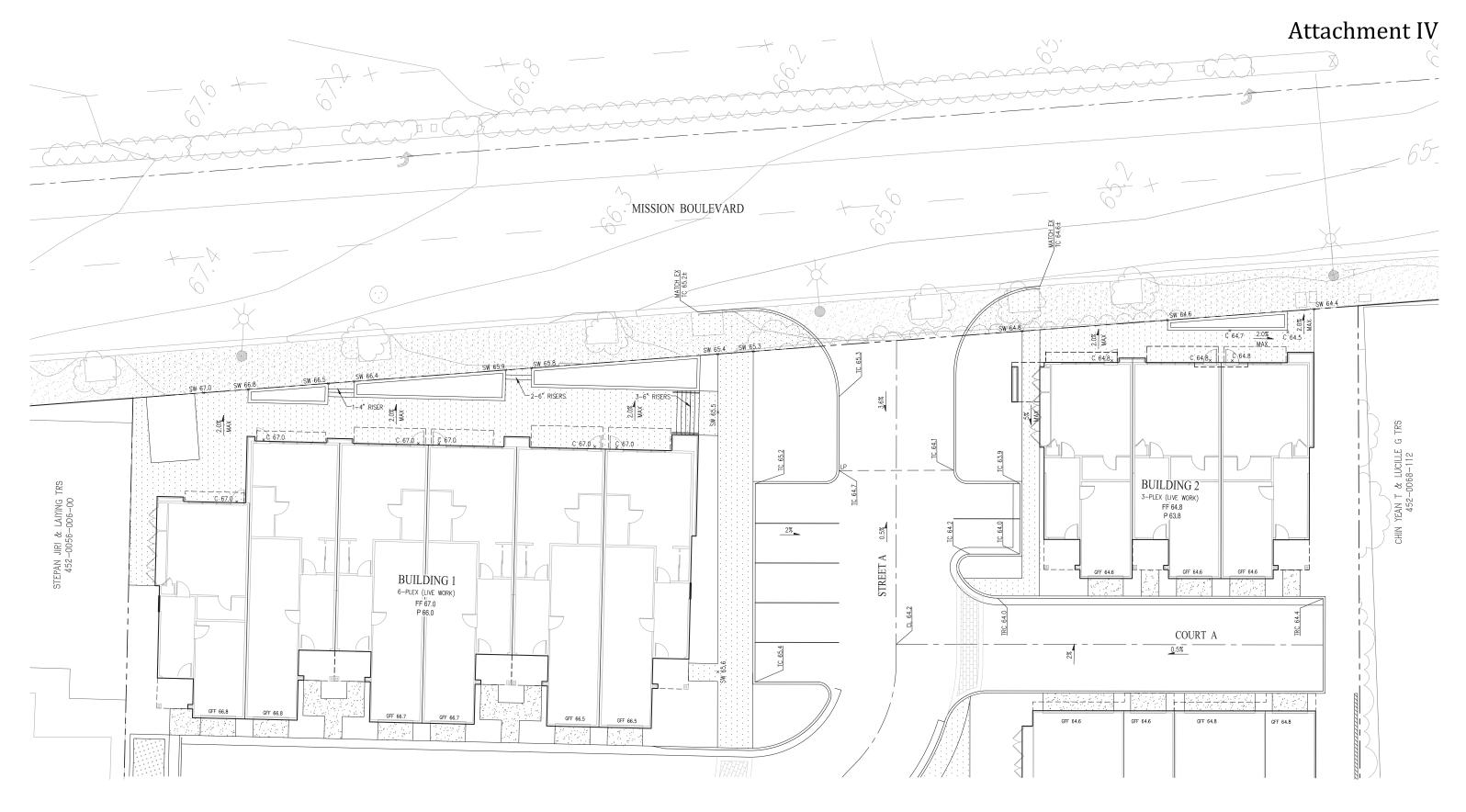
TTLC Management, Inc. an Arizona Corp.

12647 Alcosta Blvd., Suite 470 San Ramon CA 94583 925.824.4300







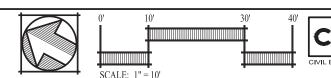


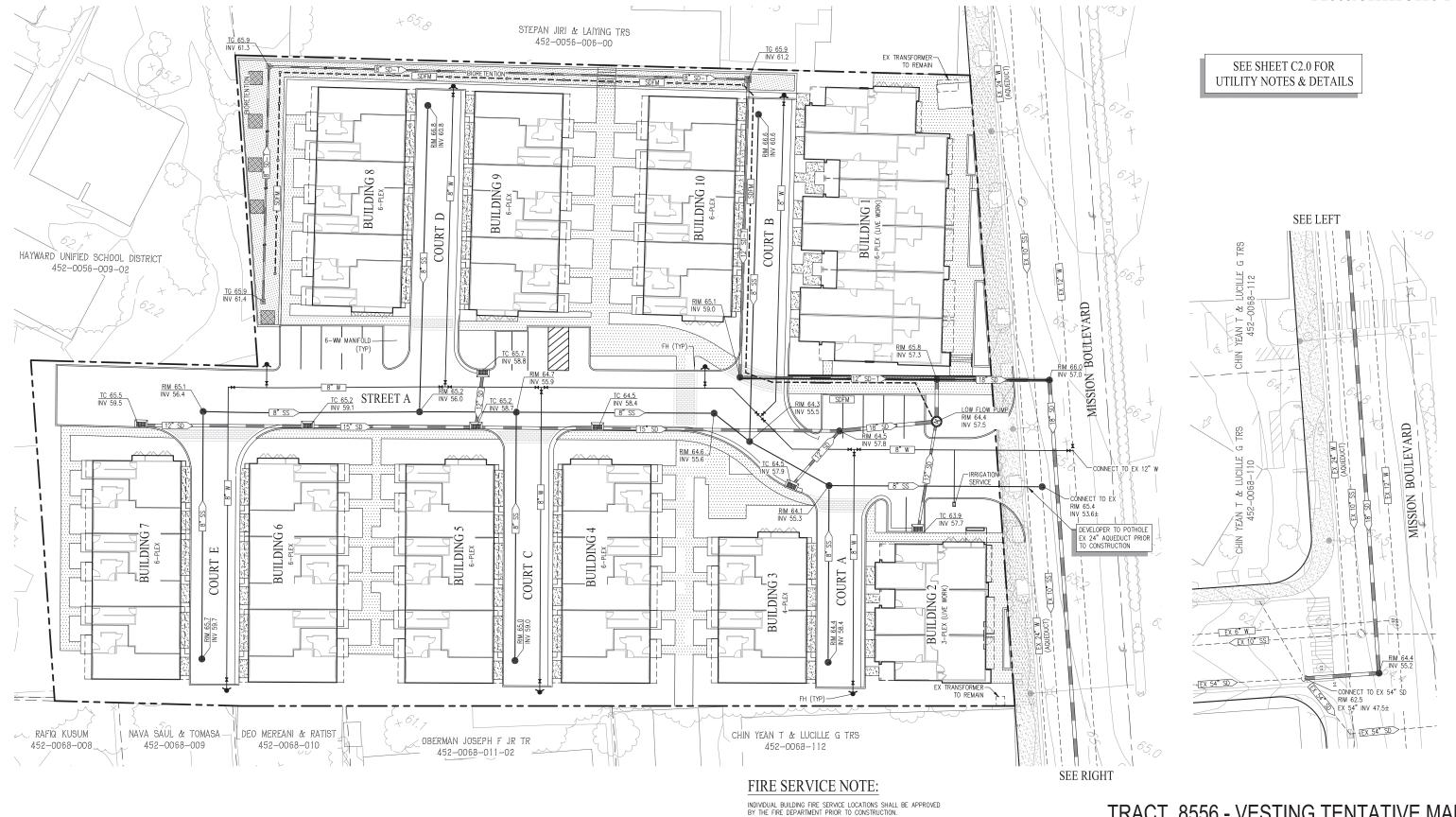
27177 MISSION BOULEVARD Hayward, CA APRIL 2021

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925.824.4300

TRACT 8556 - VESTING TENTATIVE MAP LIVE WORK & MISSION BLVD FINE GRADING





27177 MISSION BOULEVARD

Hayward, CA

APR**İ**L 2021

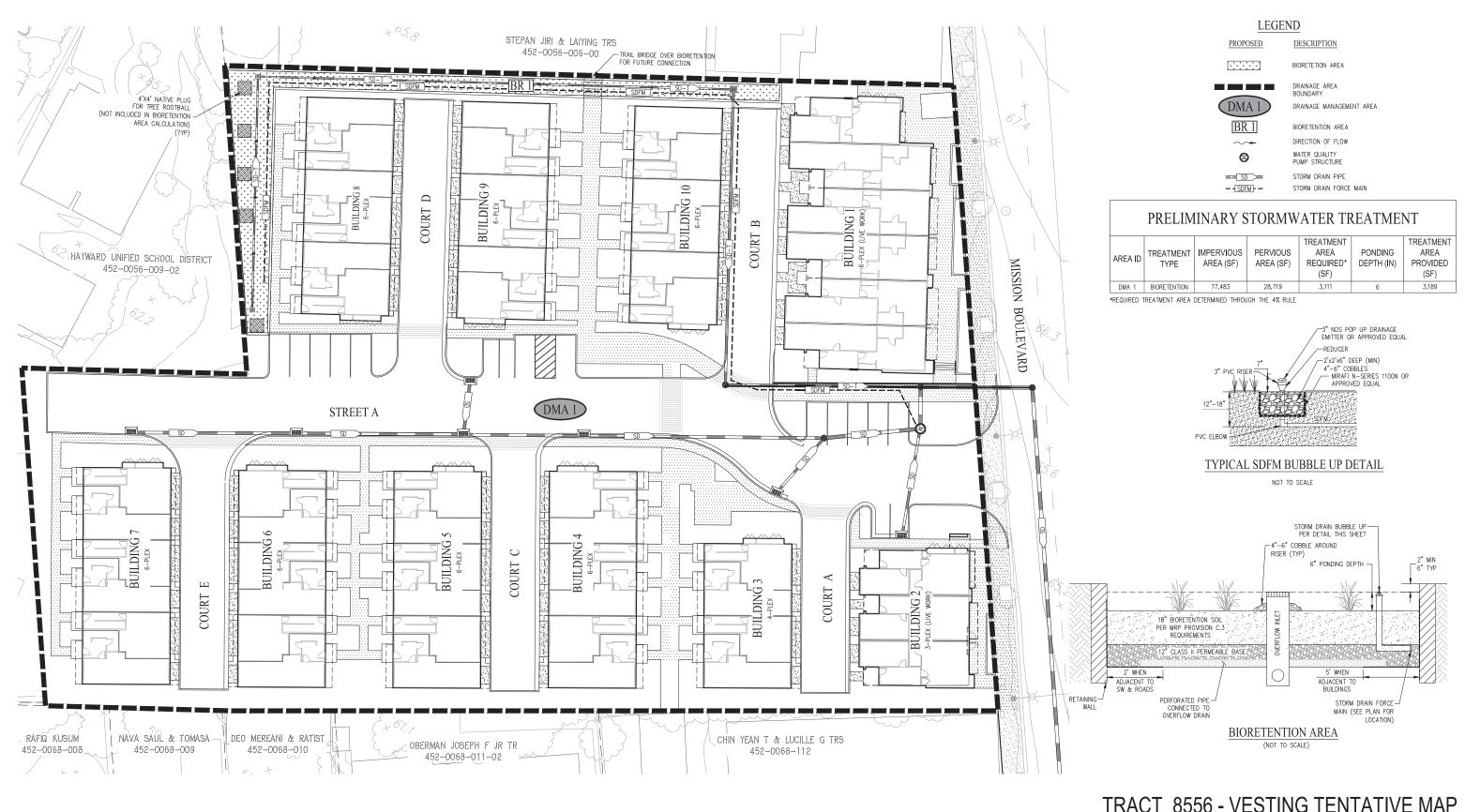
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TRACT 8556 - VESTING TENTATIVE MAP PRELIMINARY UTILITY MAP



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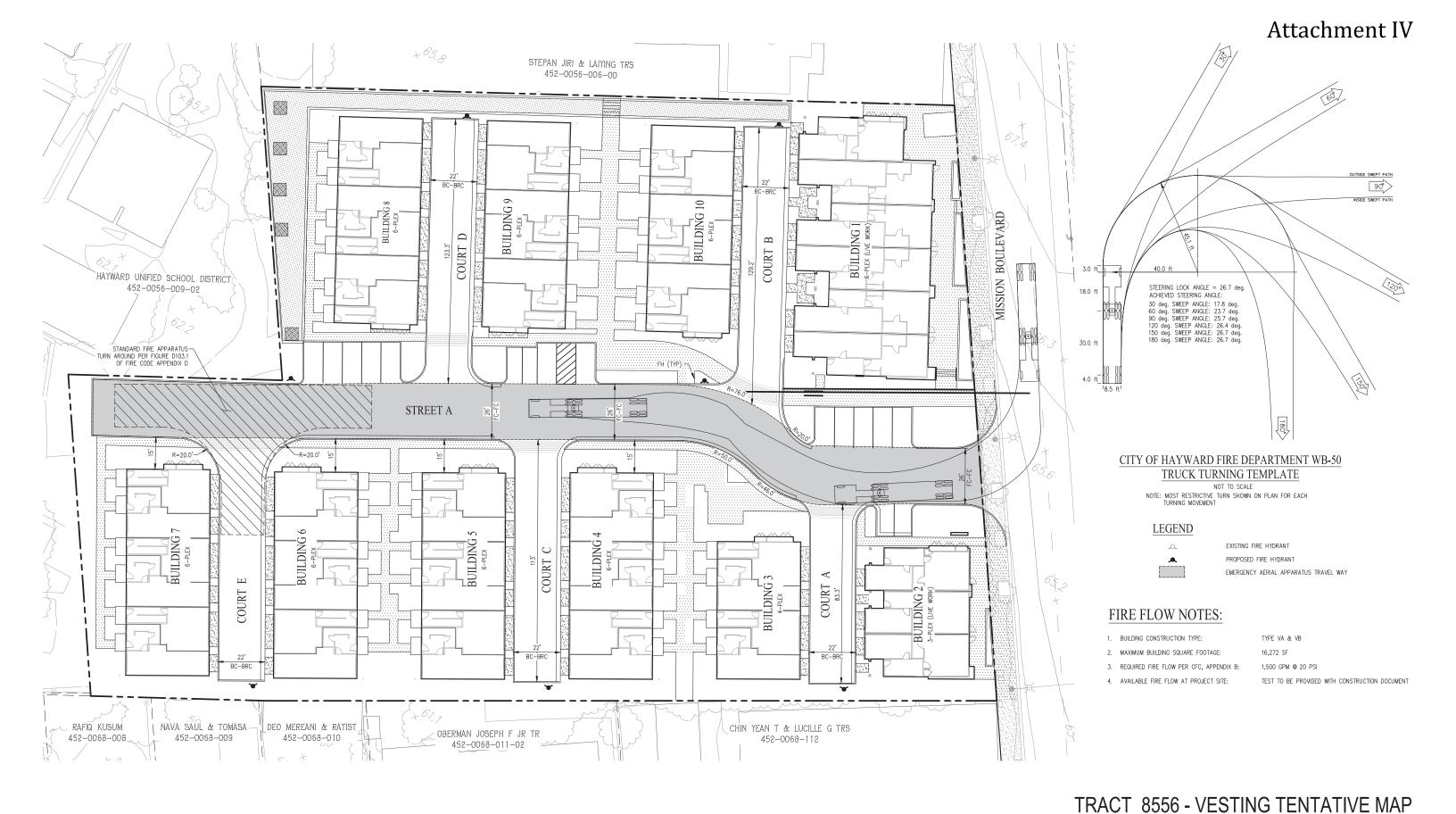
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cbg

PRELIMINARY STORMWATER CONTROL PLAN

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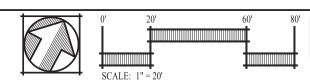


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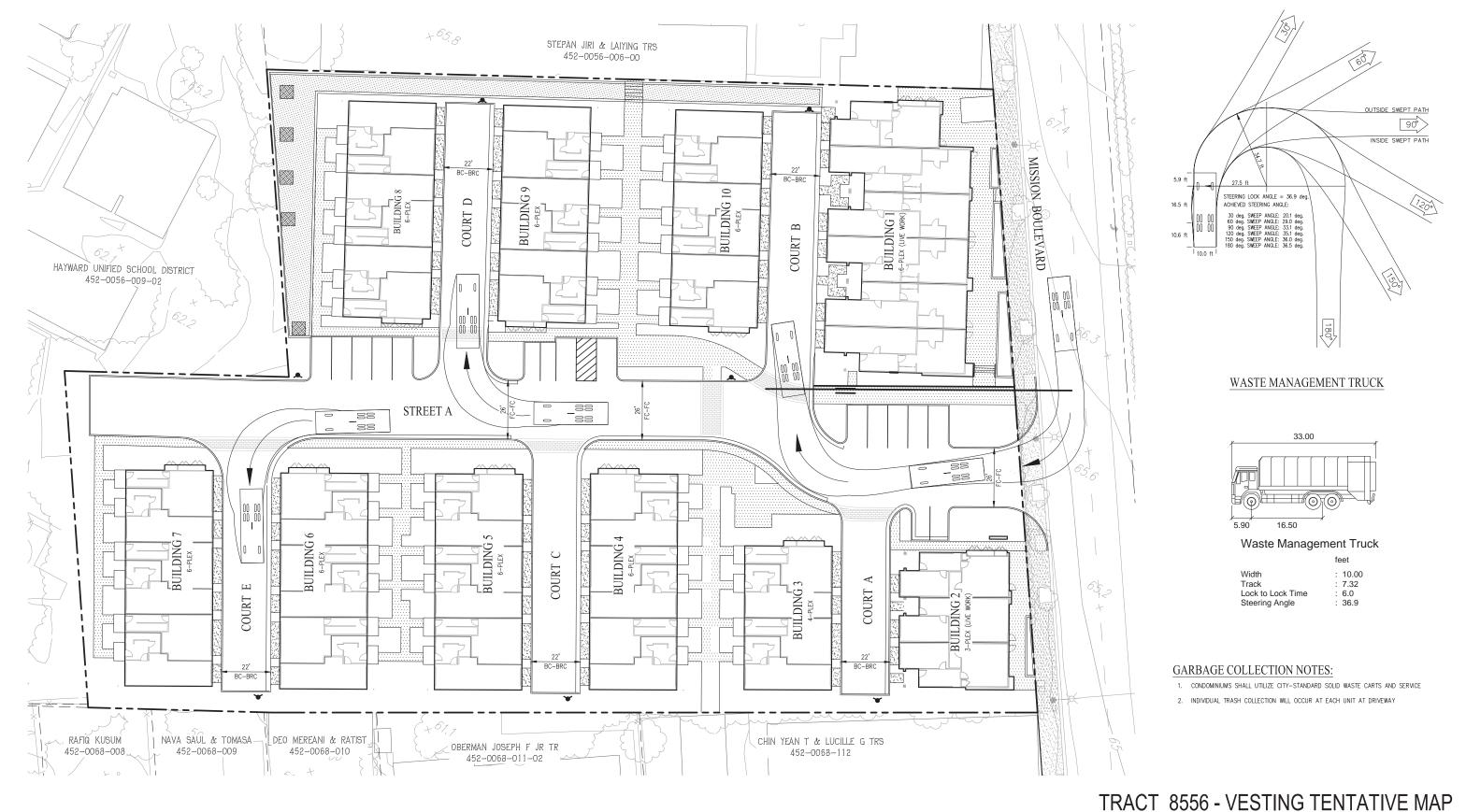
FIRE ACCESS PLAN





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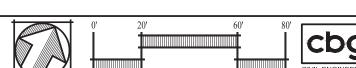
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cbg

SOLID WASTE HANDLING PLAN

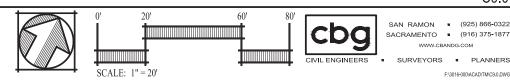
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TRACT 8556 - VESTING TENTATIVE MAP OPEN SPACE PLAN

C0.0



27177 MISSION BOULEVARD Hayward, CA April 30, 2021

Illustrative Site Plan L-1.1

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27177 MISSION BOULEVARD

Hayward, CA

April 30, 2021

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Preliminary Landscape Plan L-1.2



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HORT SCIENCE MARILITY CONSULTING

Nine Hollywood juripers were evaluated. Six were in good condition and three were in fair condition. Several juripers were planted along the property line between the two properties (Photo 2). Three juripers were growing close to buildings. Seven juripers had multiple trunks which ranged in size from 2 to 10 inches in diameter. Trees #130 and 148 had single trunk diameters of 10 and 13 inches,



Eight holly caks were evaluated. Six were in fair condition and two were in good condition. Tree #164 was located off site. Trees were small with the trusk diameters ranging from 6 to 6 inches, apart from tree #164, which had a 1-Sinch diameter trusk. The holly caks had sooty mold, which is a dark soot-like covering on the troves and stems of a plant. Seeky mold is a fungus that grows on plants with heavy aphild, scale or whitefly diamage and is not uncommon for holly caks to have for long periods of lime.

Seven southern magnelias were assessed. Four were in good condition, two were in fair condition and one (#153) was in poor condition. The magnelias were small trees ranging in size from 5 to 10 inches. The magnelias were planted in pariting blands acound the center of the site.

Seven London plane trees were assessed. Five were street frees in good condition growing in 65-by 5.5-foot tree wells (Photo 4). The street trees had funit diameters of 7 and 8 inches. The two non-street trees (#138 and 144 were in fair condition with multiple trunks that had been







Preliminary Arborist Report 27177 & 27283 Mission Blvd

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Tree Assessment Map Tree Assessment Tree Appraisal Calculation

The remaining 10 species were represented by fewer than four trees. The most notable of which were:

- Four atmonds (#187-189 and 192) with multiple stems that were embedded in the fence (Phyto 5). Three were planted off site.

 Blisk altac codar# 159 was plotted in the southwesten compr of the side. The blue allas cetar had multiple trurks ranging from 7 to 19 inches.

 Date pain# 1918 had 6 feet of brown trunk height and was in good condition (Photo 6).

 Paradox walnul #177 had several cavities at the base which went all the way through the free.





Photo 5 Almend #187 was embedded in the feace

Phote 6. Date paim #193 had 6 feet of brow trunk and was in good condition.

City of Hayward Tree Protection Requirements
The City of Hayward Minicipal Code, Article 15, protects all trees 8 inches and targer in diameter,
naive trees 4 inches or larger in diameter and street trees of any size. Based on lihis definition,
55 frees assessed are protected, including off-site airmond #180, date pain #193 and holly oak
#184. Tree protection designations for individual interes are provided in the Tree Assessment.

Suitability for Preservation

Before evaluating the impacts that will occur during development, it is important to consider the quality of the time resource steet, and the potential for individual trees to function well over an extended length of time. Trees that are preserved on development sites must be carefully selected to ankle sure that they may survive development impacts, adapt to a new environment

Our goal is to kriently tress that have the potential for long-term health, structural stability and longewity. For trees growing in open listids, away from areas where people and property are present, structural defects and/or port health presents a low risk of damage or inquiry they fail However, we must be concerned about safety in use areas. Therefore, where development ancrosochast rootsing plantings, we must consider their structural stability as well as their

Preliminary Arborist Report 27177 & 27283 Mission Blvd.

Introduction and Overview

mroduction and Overview

The True Life Company (TLC) is proposing to develop two parcels 27177 & 27283 Mission Blvd.
in Hayward, CA. The sile consisted of several structures, associated parking lots and
landscaping. HorôScience | Bartiell Consulting (Divisions of the F. A Bartlett Tree Expert
Company) was asked to prepare a Preliminary Arborist Report as a part of the submission to
the City of Hayward. The report is consideded preliminary as the drainage, grading or landscape
plans were not reviewed prior to preparation of this report.

- This report provides the following information:

 1. An assessment of each tree's health, structure, suitability for preservation and protected status within and adjacent to the proposed project area.

 2. A preliminary evaluation of impacts to trees based on plans provided by TTLC.

 3. The appraised value of assessed trees.
- Preliminary guidelines for tree preservation throughout the planned demolition and construction phases of the project.

construction phases of the project

Assessment Methods

Trees were assessed on February 21 and 27th, 2020. Off-eite trees with canopies extending into the subject alte were viewed from standing on the subject property. All trees measuring 4 inches and greater in diameter were included in the assessment, as required by the Ctyl of Hayward (Hayward Municipal Code Chapter 18,215). Tree tag numbers started at #130. The assessment procedure consisted of the following steps:

1. Identifying the tree species;

2. Tagging each tree with an identifying number and recording its location on a map;

3. Measuring the trunk diameter at a point 54 inches above grade;

4. Evaluating the health and structural condition using a scale of 1 – 5;

5- A healthy, vigorous tree, reasonably free of signs and symptoms of disease, with good structure and form yippical of the species.

4. Tree with slight decline in vgor, small amount of twig dieback, minor structural defects that could be concreted.

3. Tree with moderate vgor, moderate twig and small branch dieback, thinning of crown, poor jeaf color, moderate structural defects that might be mitigated with regular care.

2. Tree in decline, epicormic growth, extensive dieback of medium to large branches, significant structural defects that cannot be abated.

1. Tree in severe decline, diesako of sadfidot branches andior frunk; most of folage from epicormics, extensive structural defects that cannot be abated.

5. Rating the substablik for preservation as "high", "moderate" of "v.". Sultabiliky for preservation considers the health, age and structural condition of the tree, and its potential to remain an asset to the site for years to come.

High: Trees with good health and structural stability that have the potential

High: Trees with good health and structural stability that have the potential for longevity at the site.

Moderate: Trees with somewhat declining health and/or structural defects than can be abled with treatment. The tree will require more intense management and monitoring and may have shorter life span than two in high; sategory.

Low: Trees in poor health or with significant structural defects that cannot be mitigated. Tree is expected to continue to decline, regardless of treatment. The species or individual may have characteristics that

Preliminary Arborist Report, TTLC Management HortScience | Buttlett Consulting 27177 & 27283 Mission Blrd. Hayward - March 5, 2020 Page 5

potential to grow and thrive in a new environment. Where development will not occur, the normal life cycles of decline, structural failure and death should be allowed to continue.

Evaluation of suitability for preservation considers several factors

Tree health
 Healthy, vigorous fees are better able to togratic impacts such as root injury, demolition
 of existing structures, changes in soil grade and moisture, and soil compaction than are
 non-vigorous fees. Saratoga Bay laurel #157 had excessive dieback and is not likely to

Structural integrity
Tiese with significant amounts of wood decay and other structural defects that cannot be
corrected are likely to fall. Such trees should not be preserved in areas where damage to
people or property is likely. A good example of this is, paradox wainut #177, with basal
cavities rendering the tree unsultable for preservation independent of construction.

Species response
There is a wide variation in the response of individual species to construction impacts
and changes in the environment. Coast live oak and London planes have good tolerance
to construction impacts. However, blue atlas cedar is less tolerant of construction

Tree age and lonsevity
Oid trees, while has spirificant emotional and aesthetic appeals, have limited
physiological capacity to adjust to an altered environment. Young trees are better able to
generate new tissue and respond to change

Invasiveness
Species which spread across a site and displace desired vegetation are not always appropriate for retention. This is particularly true when indigenous species are displaced. The California Invasive Plant Inventory Database (http://www.califo.corginaf) lists species identified as being invasive. Hayward is part of the Central West Floristic Province. Closey privet is sixed as having Inited invasiveness potential.

Each tree was rated for suitability for preservation based upon its age, health structural condition and ability to safely coexist within a development environment (Table 2). We consider trees with high suitability for preservation to be the best candidates for preservation. We do not recommend retention of trees with low suitability for preservation in areas where people or properly will be preserve. Retention of trees with moderate suitability for preservation depends upon the intensity of proposed stochanges.

Trees in this category had good health and structural stability that have the potential for longevity at the site. Seven trees had high suitability for preservation.

Trees in this category have fair health and/or shuctural cafects that may be abated with treatment. Trees in this category require more intense management and monitoring, and may have sharter [Meapers than those in the "high" category. Thirty-two [32] had moderate suitability for preservation.

Attachment IV

Preliminary Arborist Report, TTLC Management
27177 & 27283 Mission Blvd. Hayward ~ March 5, 2020

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are undesirable for landscapes, and generally are unsuited for use

Description of Trees

Description of Trees
Fifteen (15) species comprised the 64 trees assessed. The assessment included seven off-site
trees. Overall, trees were in fair condition with 35 trees, 24 were in good condition and five were
poor. Descriptions of each tree can be found in the Tree Assessment and approximate locations
are shown on the Tree Assessment Plan (see Exhibits).

Table 1: Condition ratings and frequency of occurrence of trees. 27177 & 27283 Mission Blvd., Additional Area, Hayward, CA

Common Name	Scientific Name	- 0	Tota		
		Poor (1-2)	Fair (3)	Good (4-5)	
Blue atlas cedar	Cedrus atlantica 'Glauca'	14.	1	-	1
Silver dellar gum	Eucalyptus polyanthemos		1	+	1
Hollywood juniper	Juniperus chinensis 'Kaizuka'	100	3	6	9
Saratoga Bay laurel	Laurus x 'Saratoga'	1	-	~	1
Glossy privet	Ligustrum lucidum	1.0	1	4	1
Southern magnolia	Magnolia grandiflora	1	2	4	7
Maple	Acer spp.	1	4	-	1
Paradox walnut	Juglans × paradox	. 5	-	-	1
Date paim	Phoenix dactylifera	10.40	-	2	1
London plane	Platanus x hispanica	100	2	5	.7
Catalina cherry	Prunus ilicifolia subsp. Iyonii		3	-	3
Plum	Prunus domestica	200	1	14	1
Almond	Prunus dulcis	1	3		4
Coast live oak	Quercus agrifolia	100	12	.6	18
Holly oak	Quercus ilex	-9	6	2	8
Total		5	35	24	64

The most prevalent species assessed was coast live oak with 18 trees. Twelve were in fat condition and six were in opto condition. Several of the live oaks were growing on the western property line. Tree #190 was located off-site (Poto t). The live oaks ranged in size from 7 to 34 inches in diameter. Five trees had multiple trusks, the trunks of which ranged from 5 to 19 inches in diameter each. The live oaks growing on the western properly line were lightly clustered and were being suppressed or were suppressing other trees.



Photo 1. Live oaks along the western property line were suppressed of were suppressing other trees

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Trees in this category are in poor health or have significant defects in structure that cannot be abated with treatment. These trees can be expected to decline regardless of management. The species or individual tree may possess either characteristics that are undesirable in landscape settings or be unsuited for use areas. Twenty-five (25) had low suitability for preservation.

Evaluation of Impacts and Recommendations
Appropriate tree retention is a practical match between the location and intensity of construction activities with the quality and health of trees. The tree assessment was the reference point for tree condition and quality.

Impacts from the proposed project were assessed using the *Site Plan and Project Data* sheet, prepared by SDG Architects, Inc dated November 18, 2019. Grading, drainage, stormwater, utility and landscape plans that could affect trees have yet to be prepared and were not reviewed for this report. When those plans are prepared, a more comprehensive assessment of impacts to trees and designation of tree protection measures can be prepared.

The development proposes to construct 55 residential units and nine commercial spaces with The development projects of Control of Testand and a runs and in interest control to the provide streets, bioretention and landscaping. Development will encompass the entire sits leaving little opportunity for the preservation. However, preservation of trees located on the western property line and off-site is possible depending on the exact location of the buildings and access

Off-site trees #184, 185, 187, 188, 189 and 193 can be preserved if buildings and streets are 15-20 feet from the trurks of the trees. Additionally, street trees #179-181 can be preserved given the distance is provided. I recommend working to preserve coast live oaks on the western property line #160-163, 165, 167-170 and 172-176 and Catalina chemies #164, 168 and 171.

Based on my evaluation of the preliminary plans, 31 trees are within the building envelope and will be removed for construction, 12 of which are protected. Thirty-two (32) can potentially be preserved (Table 3). I recommend removal of Paradox walnut #177 based on significant structural defects. Tree preservation is predicted on adherences to the Tree Preservation Guidelines (see page 8).

Table 3: Tree Disposition Table 27177 & 27283 Mission Blvd. Hayward, CA.

Tag #	Species	Diameter	Protected	Disposition
130	Hollywood juniper	10	Yes	Remove
131	Southern magnolia	10	Yes	Remove
132	Southern magnolia	7	No	Remove
133	Southern magnolia	9	Yes	Remove
134	Hollywood juniper	6,4,4	Yes	Remove
135	Hollywood juniper	5,3,2	Yes	Remove
136	Holly oak	6,4,4	Yes	Remove
137	Coast live oak	5,5,4,4	No	Remove
138	Holly oak	7	No	Remove
139	London plane	6,5,5	Yes	Remove
140	Holly oak	8	Yes	Remove
141	Holly oak	8	Yes	Remove
142	Holly oak	4,4,3	No	Remove
143	Silver dollar gum	5	No	Remove

27177 MISSION BOULEVARD Hayward, CA



PLANNING URBAN DESIGN LANDSCAPE ARCHITECTURE 201 4th street suite 101B, oakland, ca 94607 phone: 510.452.4190 www.r3studios.com

Arborist Report



emoval is \$38.050.

Species

160 Coast live oak
161 Coast live oak
162 Coast live oak
163 Coast live oak
163 Coast live oak
164 Coast live oak
165 Coast live oak
166 Coast live oak
167 Coast live oak
168 Coast live oak
168 Coast live oak
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175 Coast live oak
176 Coast live oak
177 Coast live oak
178 Coast live oak
179 Coast live oak
179 Coast live oak
179 London plane
180 London plane
180 London plane
181 London plane
182 London plane
183 London plane
184 Holly oak
185 Plum
186 Coast live oak
187 Almond
188 Almond
189 Almond
180 Coast live oak
191 Coast live oak
191 Coast live oak
191 Coast live oak
191 Coast live oak
191 Coast live oak
191 Coast live oak
191 Coast live oak
191 Coast live oak
192 Almond

193

12,8 15

7,7,6,6,5,4,4,4,3,3,3 5,5,4,4 7,7,4,4,4 8,6,4,4,3,3,3

Trunk Diameter Heritage Appraised (in.) Tree? Value

\$9.800

\$2,650 \$1,300 \$1,300 \$1,4750 \$4,950 \$1,460 \$1,850 \$1,850 \$1,300 \$8,550 \$9,350 \$8,150 \$8,150 \$2,500 \$4,200 \$1,200 \$1,200 \$1,200 \$1,000 \$

Tag #	Species	Diameter	Protected	Disposition
144	Londonplane	7,6,6,5,5	Yes	Remove
145	Southern magnolia	5	Yes	Remove
146	Southern magnolia	6	No	Remove
147	Southern magnolia	6	Yes	Remove
148	Hollywood juniper	13	Yes	Remove
149	Hollywood juniper	9,5	Yes	Remove
150	Hollywood juniper	15.8	Yes	Remove
151	Maple species	9	Yes	Remove
152	Hollywood juniper	10.8,7,7,4	No	Remove
153	Southern magnolia	8	Yes	Remove
154	Glossy privet	4,4,3,3,3,2,2	Yes	Remove
155	Hollywood juniper	10,10,5	Yes	Remove
156	Hollywood juniper	5,5,4	Yes	Remove
157	Saratoga Bay laurel	7	No	Remove
158	Holly oak	6	Yes	Remove
159	Blue atlas cedar	19,18,13,9,7,7	No	Preserve (?)
160	Coast live oak	19,14	No	Preserve (?)
161	Coast live oak	12,8	No	Preserve (?)
162	Coast live oak	15	Yes	Preserve (?)
163	Coast live oak	10	Yes	Preserve (?)
164	Catalina cherry	14.5	Yes	Preserve (?)
165	Coast live oak	15.7	Yes	Preserve (?)
166	Catalina cherry	7.4	Yes	Preserve (?)
167	Coast live oak	10	Yes	Preserve (?)
168	Coast live oak	10	Yes	Preserve (?)
169	Coast live oak	7	Yes	Preserve (?)
170	Coast live oak	23	Yes	Preserve (?)
171	Cataline cherry	7,5,4	Yes	Preserve (?)
172	Coast live oak	19,10	No	Preserve (?)
173	Coast live oak	7	Yes	Preserve (?)
174	Coast live oak	7	Yes	Preserve (?)
175	Coast live oak	8	Yes	
176	Coast live oak	14	Yes	Preserve (?)
177	Parado: walnut	28	Yes	Preserve (?) Condit.
1//	Parado: Walnut	20	105	removal
178	Holly oak	7	Yes	Preserve
179	Londonplane	8	Yes	Preserve
180	Londonplane	8	Yes	Preserve
181	Londonplane	7	Yes	Preserve
182	Londonplane	7	Yes	Remove
183		7	Yes	
184	London plane	15		Remove
	Holly oak		Yes	Preserve
185	Plum	7,7,6,6,5,4,4,4,3,3,3	Yes	Preserve
186	Coast live oak	22	Yes	Preserve
187	Almond	5,5,4,4	Yes	Preserve
188	Almond	7,7,4,4,4	Yes	Preserve
189	Almond	8,6,4,4,3,3,3	Yes	Preserve
190	Coast live oak	9	Yes	Preserve
191	Coast live oak	_34_	Yes	Preserve
192	Almond	5,5,5	Yes	Preserve
193	Date palm	36	Yes	Preserve

Tree No.	Species	Trunk Diameter (in.)	Heritage Tree?	Appraised Value
130	Hollywood juniper	10	Yes	\$1,850
131	Southern magnolia	10	Yes	\$1,300
132	Southern magnolia	7	No	\$650
133	Southern magnolia	9	Yes	\$1,500
134	Hollywood juniper	6,4,4	Yes	\$1,250
135	Hollywood juniper	5,3,2	Yes	\$750
136	Holly oak	6,4,4	Yes	\$1,300
137	Coast live oak	5,5,4,4	Yes	\$950
138	Holly oak	7	No	\$950
139	London plane	6,5,5	Yes	\$950
140	Holly oak	8	Yes	\$1,700
141	Holly oak	8	Yes	\$1,200
142	Holly oak	4.4.3	Yes	\$800
143	Silver dollar gum	5	No	\$500
144	London plane	7,6,6,5,5	Yes	\$1,600
145	Southern magnolia	5	No	\$450
146	Southern magnolia	6	No	\$600
147	Southern magnolia	6	No	\$600
148	Hollywood juniper	13	Yes	\$2,600
149	Hollywood juniper	9.5	Yes	\$1,650
150	Hollywood juniper	15.8	Yes	\$4,400
151	Maple species	9	Yes	\$900
152	Hollywood juniper	10,8,7,7,4	Yes	\$2.850
153	Southern magnolia	8	Yes	\$450
154	Glossy privet	4,4,3,3,3,2,2	Yes	\$300
155	Hollywood juniper	10,10,5	Yes	\$2,450
156	Hollywood juniper	5,5,4	Yes	\$750
157	Saratoga Bay laurel	7	No	\$200
158	Holly oak	6	No	\$700
159	Blue atlas cedar	19,18,13,9,7,7	Yes	\$11,750

Table 4: Appraisal of Value 27177 & 27283 Mission Blvd., Hayward, CA.

Appraisal Value
The City of Hayward requires an estimate of value be prepared for trees on the property. To estimate the reproduction cost of the trees, I used the cost approach, reproduction method, trunk formula technique as described in the Guide for Piant Appraisal, 10h edition (international Society of Arboricuture, Champaigh IL, 2018). In addition, I referred to Species Classification and Group Assignment (2004), a publication of the Western Chapter of the international Society of Arboricuture.

When estimating reproduction cost, the trunk formula technique considers four factors: size, condition, functional limitations and external limitations. Size is measured as trunk diameter, ormality 54 inches above grade. Condition reflects the health and structural inlegity of the trees. Functional limitations reflect constraints to tree development based on the site and species. In this case, the functional limitations were evaluated for each free, dinkfuldually.

The estimated reproduction cost of each tree is included in **Table 4**. The reproduction cost of all of the trees assessed was \$148,350. The reproduction cost of the of the trees proposed for

Tree No.	Species	Trunk Diameter (in.)	Heritage Tree?	Appraised Value	
130	Hollywood juniper	10	Yes	\$1,850	
131	Southern magnolia	10	Yes	\$1,300	
132	Southern magnolia	7	No	\$650	
133	Southern magnolia	9	Yes	\$1,500	
134	Hollywood juniper	6,4,4	Yes	\$1,250	
135	Hollywood juniper	5.3.2	Yes	\$750	
136	Holly oak	6.4.4	Yes	\$1,300	
137	Coast live oak	5,5,4,4	Yes	\$950	
138	Holly oak	7	No	\$950	
139	London plane	6,5,5	Yes	\$950	
140	Holly oak	8	Yes	\$1,700	
141	Holly oak	8	Yes	\$1,200	
142	Holly oak	4.4.3	Yes	\$800	
143	Silver dollar gum	5	No	\$500	
144	London plane	7,6,6,5,5	Yes	\$1,600	
145	Southern magnolia	5	No	\$450	
146	Southern magnolia	6	No	\$600	
147	Southern magnolia	6	No	\$600	
148	Hollywood juniper	13	Yes	\$2,600	
149	Hollywood juniper	9,5	Yes	\$1,650	
150	Hollywood juniper	15.8	Yes	\$4,400	
151	Maple species	9	Yes	\$900	
152	Hollywood juniper	10,8,7,7,4	Yes	\$2,850	
153	Southern magnolia	8	Yes	\$450	
154	Glossy privet	4,4,3,3,3,2,2	Yes	\$300	
155	Hollywood juniper	10,10,5	Yes	\$2,450	
156	Hollywood juniper	5,5,4	Yes	\$750	
157	Saratoga Bay laurel	7	No	\$200	
158	Holly oak	6	No	\$700	
159	Blue atlas cedar	19,18,13,9,7,7	Yes	\$11,750	

Preliminary Arborist Report, TTLC Management

27177 & 27283 Mssion Blvd. Hayward ~ March 5, 2020

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- 3. Where demolition must occur close to trees, such as removing ourb and pavement, install temporary trunk protection devices such as winding sit sock wattle or wood planks around trunks or stacking hay bales around tree trunks to a height of approximately 5. Any low branches that are within the work zone should also be protected. Remove trunk protection after demolition is completed and install protective fence at the limits of the tree protection zone. Do not retain wattling around tree trunks for more than 2-3 weeks to avoid damaging trunks from excess moisture.
- 4. Trees may require pruning to provide construction clearance. All pruning shall be done by a State of California Licensed Tree Contractor (C6/17-09). All pruning shall be done by Certified Abonist or Certified Tree Worker in accordance with the Best Management Practices for Pruning (International Society of Arboriculture, 2002) and acthere to the most recent editions of the American National Standard for Tree Care Operations (2133.1) and Pruning (A300).
- 5. All tree work shall comply with the Migratory Bird Treaty Act as well as California Fish and Wildrie code \$503-3513 to not disturb nesting birds. To the extent feasible tree pruning and removal should be scheduled outside of the breeding season. Breeding bird surveys should be conducted prior to tree work. Qualified biologists should be involved in establishing work buffers for active nests.
- Tree(s) to be removed that have branches extending into the canopy of tree(s) to remain
 must be removed by a qualified arbitrist and not by construction contractors. The
 qualified aborist shall remove the tree in a manner that causes no damage to the tree(s)
 and undestory to remain. Tree stumps shall be ground 12' below ground surface.

mmendations for tree protection during construction

- Any approved grading, construction, demolition or other work within the TREE PROTECTION ZONE should be monitored by the Project Arborist.
- 2. All contractors shall conduct operations in a manner that will prevent damage to trees to
- Tree protection devices are to remain until all site work has been completed within the work area. Fences or other protection devices may not be relocated or removed without permission of the Project Arborist.
- Constructon trailiers, traffic and storage areas must remain outside TREE PROTECTION ZONE at al times.
- Any root sruning required for construction purposes shall receive the prior approval of and be supervised by the Project Arborist. Roots should be out with a saw to provide a flat and smooth out. Removal of roots larger than 2 inches in diameter should be avoided.
- 6 If roots 2 inches and greater in diameter are encountered during site work and must be cut to complete the construction, the Project Airborist must be consulted to evaluate effects on the health and stability of the tree and recommend treatment.
- Spoil from trench, footing, utility or other excavation shall not be placed within the TREE PROTECTION ZONE, neither temporarily nor permanently.
- All grading within the dripline of trees shall be done using the smallest equipment possible. The equipment shall operate perpendicular to the tree and operate from outside the TREE PROTECTION ZONE. Any modifications must be approved and monitored.

Preliminary Arburist Report, TTLC Management

\$1177 & 27283 Mission Bird. Hayward - March 5, 2020

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- If injury should occur to any tree during construction, it should be evaluated as soon as possible by the Project Arborist so that appropriate treatments can be applied.
- No excess soil, chemicals, debris, equipment or other materials shall be dumped or stored within the TREE PROTECTION ZONE.
- Any additional tree pruning needed for clearance during construction must be performed by a Certified Arberist and not by construction personnel.
- Trees that accumulate a sufficient quantity of dust on their leaves, limbs and trunk as judged by the Project Arborist shall be spray-washed at the direction of the Project Arborist.

Maintenance of impacted trees

Pessived frees will experience a physical environment different from that pre-development. As a result, free health and structural stability should be monitored. Occasional pruning, fertilization, much, pest menagement, replanting and ingigation may be required. In addition, provisions for mentagement, replanting and ingigation may be required. In addition, provisions for mentagement included assessing trees for loserable defects in structure. This is not to say that trees without significant defects will not fail. Failure of apparently defect-free trees does locur, appecially during starm events. Wind forces, for example, cas exceed the strength of diffect-free wood causing tranches and trusts to break. Wind forces coupled with rain can saturate sails, readuring their ability to hold ooks, and blovo over defort-free trees. Atthough we annot predict all filtures, dentifying those trees with observable defects is a critical component d enhancing padds:

Furthermore, trees change over time. Our inspections represent the condition of the tree at the time of inspection, As trees age, the likelihood of failure of branches or entire trees increases. Annual tree impactions are recommended to identify changes to the health and structure. In addition, trees should be inspected after storms of unusual sevenity to evaluate damage and structure alongs. Intelliating these inspections is the responsibility of the client and/or tree

If you have any questions regarding my observations or recommendations, please contact me HortScience | Bartlett Consulting



Darya Barar, Consulting Urban Forester ISA Certified Arborist No. WE-6757A ISA Tree Risk Assessment Qualified

Tree Preservation Guidelines

Design recommendations

1. Plan for tree preservation by designing adequate space around trees to be preserved. This area is called the TREE PROTICTION ZONE: No grading, excavation, construction or storage of materials should occur within that zone. Route underground services including utilities, sub-drains, water or several round the TREE PROTECTION ZONE. If preservation of trees along the western property line is possible, plan to add tree protection fencing at 10 to 15 feet from the western property line.

Tree Preservation Guidelines
The goal of the preservation is not merely tree survival during development but maintenance of
tree health and beauty for many years. Trees retained on sites that are either subject to
extensive injury during construction or are inadequately maintained become a liability rather than
an asset. The response of individual trees will depend on the amount of excavation and grading,
the care with which demolition is undertaken, and the construction methods. Coordinating any
construction activity inside the Tree Protremon Zone can minimize these impacts.

The following recommendations will help reduce impacts to off-site trees from development and maintain and improve their health and vitality through the clearing, grading and construction phases.

- Plot accurate locations of all trees to be preserved on all project plans. Identify the TREE PROTECTION ZONE for each tree on the plans.
- Consider the vertical clearance requirements near trees during design. Avoid designs that would require pruning more than 20% of a tree's canopy.
- Fences are to be installed at the edge of the TREE PROTECTION ZONES where possible or at the following locations:
- All plans affecting trees shall be reviewed by the Consulting Arborist with regard to tree
 impacts. These include, but are not limited to, demolition plans, grading plans, drainage
 plans, utility plans, and landscape and irrigation plans.
- Any changes to the plans affecting the trees should be reviewed by the Project Arborist with regard to tree impacts.
- Irrigation systems must be designed so that no trenching severs roots larger than 1 inch in diameter will occur within the TREE PROTECTION ZONE.
- Tree Preservation Guidelines prepared by the Project Arborist, which include specifications for tree protection during demolition and construction, should be included on all plans.
- Any herbicides placed under paving materials must be safe for use around trees and labeled for that use.
- 10. Do not lime the subsoil within 50 feet of any tree. Lime is toxic to tree roots.
- Ensure adequate but not excessive water is supplied to trees; in most cases, occasional irrigation will be required. Avoid directing runoff toward trees.

Pre-demolition and pre-construction treatments and recommendations

- Fence all trees to be retained to completely enclose the Tree Protection Zone prior to demoition, grubbing or grading. Fences shall be 6 ft, chain link or equivalent as approved by the Consulting Arborist. Fences are to remain until all grading and construction is completed.

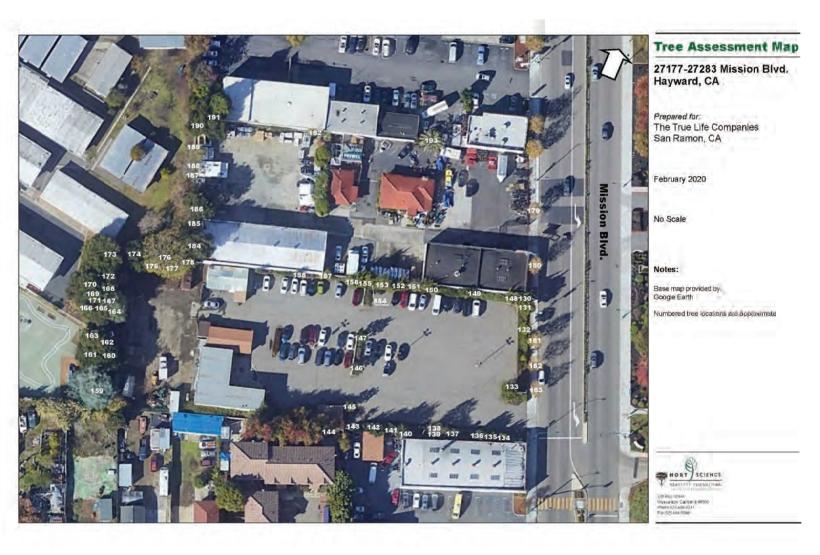
27177 MISSION BOULEVARD Hayward, CA

April 30, 2021



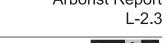
Arborist Report





27177 MISSION BOULEVARD Hayward, CA April 30, 2021

TTLC Management, Inc. an Arizona Corp. 12647 Alcosta Blvd., Suite 470 San Ramon CA 94583 925.824.4300





Tree Assessment

130 Hollywood juniper

131 Southern magnolia

132 Southern magnolia

133 Southern magnolia

134 Hollywood juniper

135 Hollywood juniper

137 Coast live oak

139 London plane

136 Holly oak

138 Holly oak

140 Holly oak

141 Holly oak

142 Holly oak

143 Silver dollar gum

145 Southern magnolia

146 Southern magnolia

147 Southern magnolia

148 Hollywood juniper

149 Hollywood juniper

144 London plane

Tree No. Species

27177 & 27283 Mission Blvd. Hayward, CA February 21 and 27, 2020

Suitability for Comments

Typical form; growing 2' from building; crowded.

Moderate Multiple attachments at 5'; full crown; low branches removed.

Multiple attachments at 4'; full crown.

Sooty mold throughout crown; thin crown.

growing on fence line; codominant at 4'.

Nice specimen; low branching.

Nice specimen; low branching.

Moderate Multiple attachments at base; topped.

Crooked trunk; full crown.

Sinuous trunk; full crown.

Moderate Good form; full crown; girdling wound at 4'.

Moderate Good form; full crown; girdling wound at 5'.

Codominant at 5' with included bark; thin crown.

Multiple attachments at base; sooty mold throughout crown.

Sooty mold throughout crown; dense crown; low branching.

Sooty mold throughout crown; dense crown; low branching;

Sooty mold throughout crown; dense crown; low branching;

Multiple attachments at base; growing between wall and building;

Typical form; growing 1' from building; crowded; corrected form.

growing on fence line; multiple attachments at base.

Moderate Typical form; growing 2' from building; crowded by small holly oak.

Multiple attachments at base; sheared at parking lot edge; dense

Preservation

Moderate

Moderate

Moderate

Moderate

Moderate

Moderate

Moderate

Low

Moderate

Trunk Protected Condition
Diameter Tree? 1=poor

Tree?

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

No

Yes

(in.)

5.3.2

6.4.4

5.5.4.4

6,5,5

4.4.3

7,6,6,55

9,5



Tree Assessment

27177 & 27283 Mission Blvd. Hayward, CA February 21 and 27, 2020



Tree Assessment

27177 & 27283 Mission Blvd. Hayward, CA February 21 and 27, 2020



Tree No.	Species	Trunk Diameter (in.)	Protected Tree?	Condition 1=poor 5=excellent	Suitability for Preservation		Tree No.	Species	Trunk Diameter (in.)	Protected Tree?	Condition 1=poor 5=excellent	Suitability for Preservation	Comments
150	Hollywood juniper	15,8	Yes	4	Moderate	Typical form; growing 2' from building; crown reduced on parking	167	Coast live oak	10	Yes	4	High	Narrow sinuous form; high up right crown; healthy growth.
						lot side.	168	Coast live oak	10	Yes	3	Low	Trunk leans heavily East; healthy growth; suppressed crown.
151	Maple species	9	Yes	2	Low	Codominant at 4' topped; branch dieback; pyracantha over taking crown.	169	Coast live oak	7	Yes	3	Moderate	Narrow sinuous form; high up right crown bows East high in crown; healthy growth.
152	Hollywood juniper	10,8,7,7,4	Yes	3	Low	Topped; growing at fence; multiple attachments at base; crown	170	Coast live oak	23	Yes	4	High	Multiple trunks arise from 4'; full round crown.
						reduced on parking lot side.	171	Catalina cherry	7,5,4	Yes	3	Low	Multiple trunks arise from base; heavily suppressed; all growth or
153	Southern magnolia	8	Yes	2	Low	Thin crown; poor color; sprouts at base.							eastern side.
154	Glossy privet	4,4,3,3,3,2	Yes	3	Low	Multiple attachments at base; groving at fence; crowded,	172	Coast live oak	19,10	Yes	4	Moderate	Seam in attachment at base; suppressed crown; healthy growth mostly on west side.
155	Hollywood juniper	10,10,5	Yes	3	Low	Multiple attachments at base; crowded out by #154; engulfed in ivy.	173	Coast live oak	7	Yes	3	Low	Narrow sinuous form; high up right crown bows East high in crown; healthy growth.
156	Hollywood juniper	5,5,4	Yes	3	Low	Multiple attachments at base; crowded.	174	Coast live oak	7	Yes	3	Low	Narrow sinuous form; high up right crown bows west; healthy
157	Saratoga Bay laurel	7	No	1	Low	Extensive dieback.							growth.
158	Holly oak	6	No	3	Moderate	Sooty mold throughout crown; derse crown; low branching.	175	Coast live oak	8	Yes	3	Low	Narrow sinuous form; high up right crown bows south; healthy
159	Blue atlas cedar	19,18,13,9	Yes	3	Moderate	Multiple attachments at 5' with narrow attachments.							growth.
		,7,7					176	Coast live oak	14	Yes	3	Low	Trunk bows low east; healthy growth.
160	Coast live oak	19,14	Yes	4	Moderate	Codominant at 2'; full crown; one sided to east.	177	Paradox walnut	28	Yes	2	Low	Large cavity in base taking 1/4 of root area; history of branch.
161	Coast live oak	12,8	Yes	3	Low	Codominant at base; very suppressed and one-sided to west.							failure; some decay in crown; ***removal recommend ***.
162	Coast live oak	15	Yes	4	High	Upright form; codominant at 10'; full crown.	178	Holly oak	7	No	3	Moderate	Full healthy crown full to the ground.
163	Coast live oak	10	Yes	3	Moderate	Codominant at 8'; suppressed and one-sided to west,	179	London plane	8	Yes	4	Moderate	Planted in a 6.5x5.5 tree well cut cut; good upright form; healthy
164	Catalina cherry	14,5	Yes	3	Low	Codominant trunks arise from 5'; stems removed from base;	190	Landan plans	8	Van		Moderate	Crown.
						suppressed on west side thin crown; bleeding on base and trunk.	180	London plane	٥	Yes	4	Moderate	Planted in a 6.5x5.5 tree well out out; good upright form; healthy crown.
165	Coast live oak	15,7	Yes	4	High	Dominant tree of the group; 7" trunk is learing heavily on other trees to the west; full healthy crown.	181	London plane	7	Yes	4	Moderate	Planted in a 6.5x5.5 tree well cut cut; good upright form; healthy crown.
166	Catalina cherry	7,4	Yes	3	Low	Narrow upright suppressed codominant trunks arising from base.	182	London plane	7	Yes	4	Moderate	Planted in a 6.5x5.5 tree well cut cut; good upright form; healthy crown.

Tree Assessment

27177 & 27283 Mission Blvd. Hayward, CA February 21 and 27, 2020



Tree No.	Species	Trunk Diameter (in.)	Protected Tree?	Condition 1=poor 5=excellent	Suitability for Preservation	Comments
183	London plane	7	Yes	4	Moderate	Planted in a 6.5x5.5 tree well cut cut; good upright form; healthy crown.
184	Holly oak	15	Yes	4	Moderate	Off-site overhangs by 15; at fence line; codominant at 10' healthy crown.
185	Plum	7,7,6,6,5,4 ,4,4,3,3,3	Yes	3	Low	Off-site; base at fence; multiple atachments at base; stump sprouts; twig dieback.
186	Coast live oak	22	Yes	3	Low	Base embedded in fence; poor form and structure; crook at 12'; one-sided to north; canopy overhangs 18'.
187	Almond	5,5,4,4	Yes	2	Low	Off-site; base embedded in fence; multiple attachments at base; stump sprouts; branch dieback.
188	Almond	7,7,4,4.4	Yes	3	Low	Off-site; base embedded in fence; multiple attachments at base; twig dieback; crossing branches.
189	Almond	8,6,4,4,3,3 ,3	Yes	3	Low	Off-site; base embedded in fence; multiple attachments at base; twig dieback; crossing branches.
190	Coast live oak	9	Yes	3	Moderate	Off-site; tag on fence; base embedded in fence; leans to south; canopy over hangs 5'.
191	Coast live oak	34	Yes	3	Moderate	Fence embedded in base; multiple attachments at 5'; full, dense crown; codominant at 15' with included bark; canopy overhangs 20'.
192	Almond	5,5,5	Yes	3	Low	Base embedded in fence; multiple attachments at base.
193	Date palm	36	Yes	4	High	Off-site; no tag; at fence line; 6' clear trunk crown overhangs 10'.



											-m dramitated	Selvine	
Tree No.	Species	Diameter	Cond. Value	Functional Limitation		Species Value	Unit Tree Cost	Appraised Trunk Area	Trunk Area Increase	Basic Tree Cost	Appraised Value	Final Value	
130	Hollywood juniper	30		0.7	1	0.5	45.46	78.5	74.7	3741.32	1833,2478	\$1,850	
131	Southern magnolia	10	0.5	0.7	1	0.9	45.48	78.5	74.7	3741.32	1309.4627	\$1,300	
132	Southern magnolia	7			1	0.9	45.46		34 665	1921.33	672 46562	\$660	
133	Southern magnolia	- E	0.7	0.7	4	0.9	45 46	63.585	59 785	3063.29	1501.0102	\$1,500	
134	Hollywood juniper	6,4,4	0.7			9.5	45.46		49,58	2599.37	1273,6897	\$1,250	
135	Hollywood juniper	5,3,2	0.7	0.7		0.5	45.46	29.83	26.03	1528.78	749 10406	\$750	
136	Holly oak	6.4.4	0.5	0.6	1	0.7	77.04	53,38	51,14	4285.29	1285,5857	\$1,300	
137	Coast live oak	5,5,4.4	0.5	0.6	1	0.9	45.46	64.37	60.57	3098.97	929 69166	\$950	
138	Holly oak	7	0.5	0.6		0.7	77.04	38.465	36.225	3136.23	940.8702	\$950	
139	London plane	6,5,5	0.5	0.6	1	0.7	45,46	67.51	63.71	3241.72	972 51498	\$950	
140	Holly oak	8	0.7	0.6	1	0.7	77 04	50.24	48	4043.38	1698.2196	\$1,700	
141	Holly oak					0.7	77.04	50.24	48	4043.38	1213.014	\$1,200	
142	Holly oax	4.4.3	0.5	0.6	1	0.7	77.04	32,185	29,945	2652.42	795 72684	\$800	
143	Silver dollar gum	5	0.5	0.6	4	0.7	77.04	19,625	17.385	1684.5	505 44012	\$500	
144	London plane	7.6.6.5.5	0.5	0.6	1	0.7	45,46	114.61	110.81	5382.88	1614,8648	\$1,600	
145	Southern magnolia	5	0.7	0.6	. 1	09	45.46	19.625	15 825	1064.85	447 24309	\$450	
146	Southern magnolia	1.6	0.7	0.6	1	0.9	45.46	28 26	24.46	1457.41	612 11287	\$600	
147	Southern magnolia	£	0.7	0.6	1	0.9	45.46	25.26	24.46	1457.41	612 11287	\$600	
148	Hollywood juniper	12	0.7	0.6	1	0.5	45,46	132,665	128.865	6203.66	2605.5384	\$2,800	
149	Hollywood juniper	9,5	0.7	0.6		0.5	45,46	83.21	79.41	3955.44	1561,2842	\$1,650	
150	Hollywood juniper	15.8	0.7	0.6	1	0.5	45.46	226.865	223.065	10486	4404,1179	\$4,400	
151	Maple species	9	0.3	0.6	1	0.7	77.04	63 585	61 345	5071.48	912 86618	\$900	
152	Hollywood uniper	10.8.7.7.4	0.5	0.6	1	0.5	45.46	205.87	201.87	9522.47	2856,7411	\$2,850	
153	Southern magnolia	B	0.3	0.6	1	0.9	45 46	50.24	46.44	2456.62	442 19203	\$450	
154	Glassy privet	4,4,3,3,3,2	: 0.5	0.3	1	0.3	45,46	39 25	35.45	1957.02	293 55255	\$300	
155	Hollywood juniper	10.10.5	0.5	0.6	1	0.5	45.46	176.625	172.825	8202.08	2460.6254	\$2,450	
156	Hollywood juniper	5.5.4	0.5	0.6	1	0.5	45.46	51 81	48.01	2527.99	758 39838	\$750	
157	Saratoga Bay laurel	7	0.1	0.6	1	0.7	77.04	38,485	36 225	3136.23	188 17404	\$200	
158	Holly oak	B				0.7	77.04	25.26	26.02	2350.04	705.01224	\$700	
159	Blue atlas cedar	19,18,13,9	: 05	0.7	1	0.8	45,46	733 975	730.175	33539.2	11738 725	\$11,750	
160	Coast live oak	19.14	0.7	0.7	1	0.9	45.46	437.245	433 445	20049.9	9824.4362	\$9,800	
161	Coast live oak	12.8	0.5		1	0.9	45.46	163.28	159.48	7595.42	2858.3973	\$2,650	
162	Coast live oak	15	0.7	0.7	1	0.9	45.46	176.625	172.825	8202.08	4019.0214	\$4,000	



Tree No.	Species	Diame	ter		Functional Limitation		Species Value	Unit Tree Cost	Appraised Trunk Area	Trunk Area Increase	Tree Cost	Appraised Value	Final Value
163	Coast live cak		10	0.5	0.7	1	0.9	45.46	78.5	74.7	3741.32	1309.4627	\$1,300
164	Catalina cherry	14.5	100	0.5	0.7	1	0.5	77.04	173.485	171.245	13538.2	4738.3612	\$4,750
165	Coast live oak	15.7		0.7	0.7	1	0.9	45 46		211.29	9950.7	4875.8447	\$4,900
166	Catalina cherry	7.4		0.5	0.7	1	0.5	77.04	51 025	48 785	4103.86	1435.3497	\$1,450
167	Coast live cak		10	0.7	0.7	1	0.9	45.46	78.5	74.7	3741.32	1833,2478	\$1,850
168	Coast live oak		10	0.5	0.7	,	0.9	45.46	78.5	74.7	3741.32	1309.4627	\$1,300
169	Coast live oak		.7	0.5	0.7	9	0.9	45.46	38,465	34.665	1921.33	672 46582	\$650
170	Coast live cak		23	0.7	0.7	1	0.9	45.46	415,285	411.465	19050.7	9334.8229	\$9,350
171	Catalina cherry	7,5,4		0.5	0.7		0.5	77.04	70.65	68.41	5615.77	1965,5182	\$1,950
172	Coast live cak	19.10		0.7	0.7	1	0.9	45,46	361.885	358.085	16624	8145,762	\$8,150
173	Coast live cak		7	0.5	0.7	4	0.9	45.46	38 465	34.665	1921.33	672 46562	\$650
174	Coast live oak		7	0.5	0.7	3	0.9	45.46	38.465	34.665	1921.33	672 46582	\$660
175	Coast live oak		- 8	0.5	0.7	1	0.9	45.46	50,24	48.44	2456.82	859 81784	\$850
176	Coast live oak		14	0.5	0.7	1	0.9	45.46	153.66	150.06	7167.19	2508,5157	\$2,500
177	Parador walnut		28	0.3	0.5	1	0.5	45.46	615.44	611.64	28150.6	4222.5922	\$4,200
178	Holly oak		7	0.5	0.7	3	0.7	77.04	38 465	36 225	3136.23	1097.6819	\$1,100
179	London plane		8	0.7	0.7	- 4	0.7	45.46	50.24	46.44	2456.62	1203 745	\$1,200
180	London plane		:8	0.7	0.7	1	0.7	45.46	50.24	46.44	2456.62	1203.745	\$1,200
181	London plane		7	0.7	0.7		0.7	45 46	38.465	34.665	1921.33	941 45214	\$950
182	London plane		7	0.7	0.7	1	0.7	45.46	38.486	34.665	1921.33	941 45214	\$950
183	London plane		7	0.7	0.7	1	0.7	45.46	38.485	34 665	1921.33	941 45214	\$950
184	Holly oak		15	0.7	0.7	1	0.7	77 04	176.625	174.385	13780.1	6752,2394	\$6,750
185	Plum	7,7,6,6	5,4,	0.5	0.2	1	0.5	77.04	133,45	131.21	10453.9	1045,3878	\$1,050
186	Coast live cak		22	0.5	0.7	1	0.9	45 46	379.94	376.14	17444 5	6105.6745	\$6,100
187	Almond	5,5,4,4		0.3	0.2	1	0.3	77.04	64 37	62 13	5131.96	307 91731	\$300
188	Almond	7.7.44	4	0.5	0.2	. 1	0.3	77.04	102.05	99.81	8034.82	803 48224	\$800
189	Almond	8,5,4.4	3.3.	0.5	0.2	1	0.3	77.04	103.62	101.38	8155.78	815 57752	\$800
190	Coast live oak	200	Đ	0.5			0.9	45.46	63,585	59.785	3063.29	1072,1501	\$1,050
191	Coast live oak		34	0.5		1	0.9	45.46	-881.94	878.14	40265.7	14092 997	514,100
192	Almond	5,5,5		0.5	0.2	1	0.3	77.04	58.875	56.635	4708.62	470.86204	\$450
193	Date palm	200	- 35	0.7		1	0.3	#N/A	973.64	#N/A	1750	a	\$1,750
	Total												\$148,350

27177 MISSION BOULEVARD

Hayward, CA

April 30, 2021

TTLC Management, Inc. an Arizona Corp.

12647 Alcosta Blvd., Suite 470 San Ramon CA 94583

Arborist Report



27177 MISSION BOULEVARD - HAYWARD, CA TREE MITIGATION SUMMARY REPORT

						Value of Tree to
ee Tag #	Species	Common Name	Trunk Dlameter	Protected	Status	Removed
130	Juniperus chinensis "kaizuka"	Hallywood Juniper	10	Yes	Removal	\$1,850.00
131	Magnolia grandiflara	Southern Magnolia	10	Yes	Removal	\$1,300.00
132	Magnolia grandiflora	Southern Magnolia	7	Na	Removal	\$650.00
133	Magnolia grandiflora	Southern Magnolia	9	Yes	Removal	\$1,500.00
134	Juniperus chinensis "kaizuka"	Hallywood Juniper	6,4,4	Yes	Removal	\$1,250.00
135	Juniperus chinensis "kaizuka"	Hollywood Juniper	5,3,2	Yes	Removal	\$750.00
136	Quercus ilex	Holly Oak	6,4,4	Yes	Removal	\$1,300.00
137	Quercus agrifolia	Coast Live Oak	5,5,4,4	No	Removal	\$950.00
138	Quercus ilex	Holly Oak	7	No	Removal	\$950.00
139	Plotanus x hispanica	London Plane	6,5,5	Yes	Removal	\$950.00
140	Quercus ilex	Holly Oak	8	Yes	Removal	\$1,700.00
141	Quercus ilex	Holly Oak	8	Yes	Removal	\$1,200.00
142	Quercus ilex	Holly Oak	4,4,3	No	Removal	\$800.00
143	Eucalyptus polyanthemos	Silver Dollar Gum	5	No	Removal	\$500.00
144	Platanus x hispanica	London Plane	7,6,6,5,5	Yes	Removal	\$1,600.00
145	Mognolia grandiflora	Southern Magnolia	5	Yes	Removal	\$450.00
146	Magnolia grandiflora	Southern Magnolia	6	No	Removal	\$600.00
147	Magnolia grandiflora	Southern Magnolia	6	Yes	Removal	\$600.00
148	Juniperus chinensis "kaizuka"	Hallywood Juniper	13	Yes	Removal	\$2,600.00
149	•			Yes		
	Juniperus chinensis "koizuko"	Hallywood Juniper	9,5		Removal	\$1,650.00
150	Juniperus chinensis "kaizuka"	Hallywood Juniper	15,8	Yes	Removal	\$4,400.00
151	Acer spp.	Maple Species	9	Yes	Removal	\$900.00
152	Juniperus chinensis "koizuko"	Hallywood Juniper	10,8,7,7,4	Na	Removal	\$2,850.00
153	Magnoha grandiflora	Southern Magnolia	8	Yes	Removal	\$450.00
154	Ligustrum lucidum	Glossy Privet	4,4,3,3,3,2,2	Yes	Removal	\$300.00
155	Juniperus chinensis "koizuko"	Hallywood Juniper	10,10,5	Yes	Removal	\$2,450.00
156	Juniperus chinensis "kaizuka"	Hallywood Juniper	5,5,4	Yes	Removal	\$750.00
157	Laurus x "Saratoga"	Saratoga Bay Laurel	7	No	Removal	\$200.00
158	Quercus ilex	Holly Oak	Б	Yes	Removal	\$700.00
159	Cedrus atlantica 'Glavca'	Blue Atlas Cedar	19,18,13,9,7,7	Na	Removal	\$11,750.00
160	Quercus agrifolia	Coast Live Oak	19,14	No	Removal	\$9,800.00
161	Quercus agrifolia	Coast Live Oak	12,8	Na	Removal	\$2,650.00
162	Quercos agrifolia	Coast Live Oak	15	Yes	Removal	\$4,000.00
163	Quercus agrifolia	Coast Live Oak	10	Yes	Removal	\$1,300.00
164	Prunus ilicifolia subsp. Lyonii	Catalina Cherry	14,5	Yes	Removal	\$4,750.00
165	Quercus agrifolia	Coast Live Oak	15,7	Yes	Removal	\$4,900.00
166	Prunus ilicifolia subsp. Lyonii	Catalina Cherry	7,4	Yes	Removal	\$1,450.00
167	Quercus agrifolia	Coast Live Oak	10	Yes	Relocate	\$1,850.00
168	Quercus agrifolia	Coast Live Oak	10	Yes	Removal	\$1,300.00
169	Quercus agrifolia	Coast Live Oak	7	Yes	Removal	\$650.00
170	Quercus agrifolia	Coast Live Oak	23	Yes	Relocate	\$9,350.00
171	Prunus ilicifolia subsp. Lyonii	Catalina Cherry	7,5,4	Yes	Removal	\$1,950.00
172			19,10			
	Quercus agrifolia	Coast Live Oak	7	No	Renioval	\$8,150.00
173	Quercus agrifolia	Coast Live Oak		Yes	Removal	\$650.00
174	Quercus agrifolia	Coast Live Oak	7	Yes	Removal	\$650.00
175	Quercus agrifalia	Coast Live Oak	8	Yes	Removal	\$850.00
176	Quercos agrifolia	Coast Live Oak	14	Yes	Removal	\$2,500.00
177	Juglans x paradox	Paradox Walnut	28	Yes	Removal	\$4,200.00
178	Quercus ilex	Holly Oak	7	Yes	Removal	\$1,100.00
179	Platanos x hisponico	London Plane	8	Yes	Preserve	\$1,200.00
180	Platanus x hispanica	London Plane	8	Yes	Preserve	\$1,200.00
181	Plotanus x hispanica	London Plane	7	Yes	Removal	\$950.00
182	Platanus x hispanica	London Plane	7	Yes	Removal	\$950.00
183	Platanus x hispanica	London Plane	7	Yes	Preserve	\$950.00
184	Quercus ilex	Holly Oak	15	Yes	Preserve	\$6,750.00
185	Prunus domestica	Plum	7,7,6,6,5,4,4,4,3,3,3	Yes	Preserve	\$1,050.00
186	Quercus agrifolia	Coast Live Oak	22	Yes	Removal	\$6,100.00
187	Pronus dulcis	Almond	5,5,4,4	Yes	Preserve	\$300.00
188	Pronus dulcis	Almond	7,7,4,4,4	Yes	Preserve	\$800.00
189	Prunus dulcis	Almond	8,6,4,4,3,3,3	Yes	Preserve	\$800.00
190	Quercus agrifalia	Coast Live Oak	9	Yes	Preserve	\$1,050.00
191	Quercus agrifolia	Coast Live Oak	34	Yes	Removal	\$14,100.00
		Almond				
192	Prunus dulcis		5,5,5	Ves	Removal	\$450.00
193	Pheonix dactylifera	Date Palm	36	Yes	Preserve	\$1,750.00
			TOTAL VALUE FOR	PRESERVATI	ON BOND	\$27,050.00

Required Trees	Required Tree Quantity/ Size/ Installed Unit Cost	Proposed Tree Quantity/ Size/ Installed Unit Cost	Unit Cost Difference	Total
Street Trees	22 / 24" box / \$350.00	22 / 48" box / \$1,000.00	\$650.00	\$14,300.0
Parking Lot Trees	3 / 15 gallon / \$175.00	3 / 36" box / \$750.00	\$575.00	\$1,725.0
Additional Trees for Mitigation		141 / 36" box / \$750.00	\$750.00	\$105,750.0
			Total	\$121,775.0
			Mitigation Goal	\$121,300.0
	•		Balance	\$0.0

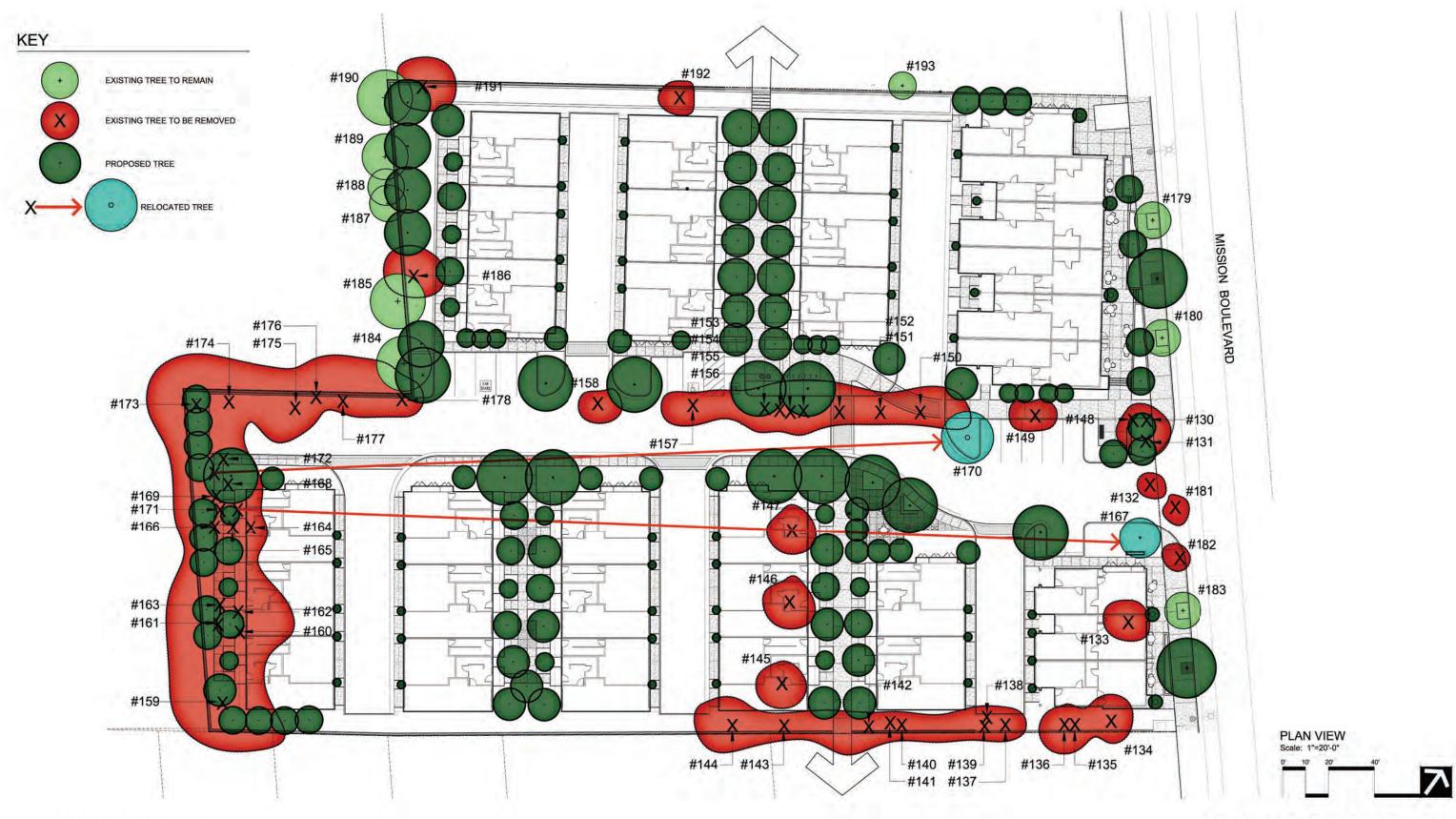
27177 MISSION BOULEVARD Hayward, CA April 30, 2021

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Tree Mitigation Summary





27177 MISSION BOULEVARD Hayward, CA April 30, 2021

Existing Tree and Tree Mitigation Plan L-3.2

DESIGN 3 00 OF TURE d, ca 94607 tudios.com

PROPOSED PLANT PALETTE

BOTANICAL NAME	COMMON NAME	MINIMUM CONTAINER SIZE	SPACING	WULCOLS	BOTANICAL NAME	COMMON NAME
MISSION BOULEVARD STREET TREE:					VINES:	
PLATANUS X HISPANICA	LONDON PLANE	36" BOX	N/A	M	CAMPSIS RADICANS 'MONBAL' DISTICUS SPECIES	BALBOA SUNSET TRUMPET VINE SCARLET TRUMPET VINE
STREET A TREE:					GELSEMIUM SEMPERVIRENS JASMINUM POLYANTHUM	CAROLINA JASMINE PINK JASMINE
ACER RUBRUM 'RED SUNSET'	RED MAPLE	36" BOX	N/A	L	PARTHENOCISSUS TRICUSPIDATA ROSA SPECIES	BOSTON IVY CLIMBING ROSE
FLOWERING ACCENT TREES:						
		0011 10 01/			GROUNDCOVER:	
ACER PALMATUM 'BIHOU' ARBUTUS UNEDO CERCIS CANADENSIS SPECIES CHIONANTHUS RETUSUS X CHITALPA TASHKENTENSIS CORNUS 'EDDIE'S WHITE WONDER' LAGERSTROEMA FAURBI 'MUSKOGEE' MAGNOLIA 'LITTLE GEM' MALUS SPECIES PRUNUS SPECIES	NCN STRAWBERRY TREE EASTERN REDBUD FRINGE TREE CHITALPA FLOWERING DOGWOOD CRAPE MYRTLE MAGNOLIA FLOWERING CRAB APPLE FLOWERING PLUMICHERRY	36" BOX 36" BOX 36" BOX 36" BOX 36" BOX 36" BOX 36" BOX 36" BOX 36" BOX 36" BOX	N/A N/A N/A N/A N/A N/A N/A N/A	L M M L M L M	CONVOLVULUS SABATIUS COPROSMA KIRKII 'PROSTATUS' CORREA SPECIES GERANIUM SPECIES GREVILLEA LANIGERA 'COASTAL GEM' MAHONIA REPENS NEPETA SPECIES ROSA SPECIES TEUCRIUM SPECIES ZAUSCHNERIA SPECIES ZAUSCHNERIA SPECIES	GROUND MORNING GLORY NCN AUSTRALIAN FUCHSIA GERANIUM NCN OREGON GRAPE CAT MINT GROUNDCOVER ROSE GERMANDER CALIFORNIA FUCHSIA
EVERGREEN SCREEN TREES:					GRASSES:	
ARBUTUS 'MARINA' ELEOCARPUS DECIPIENS LAURUS NOBILIS 'SARATOGA' LYONOTHAMNUS FLORIBUNDUS LOPHOSTEMON CONFERTUS PODOCARPUS MACROPHYLLA PRUNUS CAROLINIANA TRISTANIA LAURINA 'ELEGANT'	NCN BLUEBERRY TREE SWEET BAY IRONWOOD BRISBANE BOX YEW PINE NCN WATER GUM	36" BOX 36" BOX 36" BOX 36" BOX 36" BOX 36" BOX 36" BOX 36" BOX	N/A N/A N/A N/A N/A N/A N/A	L L L M L	CALAMAGROSTIS SPECIES CAREX SPECIES FESTUCA SPECIES HELICTOTRICHON SEMPERVIRENS MUHLENBERGIA SPECIES PENNISETUM SPECIES LOMANDRA SPECIES SUCCULENTS:	FEATHER REED GRASS NEW ZEALAND SEDGE FESCUE BLUE OAT GRASS DEER GRASS FOUNTAIN GRASS NCN
					AGAVE ATTENUATA	FOXTAIL AGAVE
BACKGROUND/FOUNDATION SHRUBS	<u>:</u>				AEONIUM SPECIES ALOE SPECIES	NCN ALOE
ABELIA SPECIES BAMBOO TEXTILIS BUXUS SPECIES CALLISTEMON 'LITTLE JOHN' CORREA SPECIES COPROSMA SPECIES ESCALLONIA SPECIES EUONYMOUS SPECIES LOROPETULUM CHINENSE MYRTUS SPECIES PITTOSPORUM SPECIES ROSMARINUS SPECIES ROSMARINUS SPECIES ROSMARINUS SPECIES WESTERIOSIA FRUTICOSA TEUCRIUM CHAMAEDRYS 'COMPACTA'	LINNAEA WEAVER'S BAMBOO BOXWOOD DWARF BOTTLBRUSH AUSTRALIAN FUCHSIA NCN ESCALLONIA EUONYMOUS NCN MYRTLE TOBIRA ROSEMARY NCN GERMANDER	5 GALLON 15 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON	N/A 5 O.C. 3 O.C. 3 O.C. 4 O.C. 3 O.C. 4 O.C. 4 O.C. 3 O.C. 4 O.C. 3 O.C. 3 O.C. 3 O.C. 3 O.C. 3 O.C. 3 O.C. 3 O.C. 3 O.C. 3 O.C. 3 O.C. 3 O.C. 3 O.C.	M L L L M L L L L	STORM WATER TREATMENT TRE ACER RUBRUM SPECIES ARISTIDA PURPUREA BOUTELOUA GRACIS CERCIS SPECIES CHONDROPETALUM TECTORUM FESTUCA CALIFORNICA JUNCUS PATENS JUNCUS SPECIES MELICA CALIFORNICA MIMULUS SPECIES	ES SHRUBS AND GRASSES: NCN PURPLE THREE-AWN BLUE GRAMA REDBUD CAPE RUSH CALIFORNIA FESCUE BLUE RUSH JUNCUS SPECIES CALIFORNIA MELIC MONKEY FLOWER
INTERMEDIATE SHRUBS:						
BERBERIS SPECIES CORREA SPECIES DIANELLA SPECIES DIETES SPECIES LAVANDULA SPECIES LIRIOPE GIGANTEA NANDINA SPECIES PHORMIUM SPECIES RHAPHIOLEPIS INDICA SPECIES ROSA SPECIES SALVIA SPECIES ZAUSCHNERIA SPECIES	BARBERRY AUSTRALIAN FUCHSIA FLAX LILY FORTNIGHT LILY LAVENDER LILY TURF HEAVENLY BAMBOO NEW ZEALAND FLAX INDIAN HAWTHORN SHRUB ROSE SAGE CALIFORNIA FUCHSIA	5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 1 GALLON	3' O.C. VARIES 3' O.C. 3' O.C. 2' O.C. 2' O.C. 3' O.C. 4' O.C. 3' O.C. 3' O.C. VARIES	M L L L M L L M L		
FOREGROUND SHRUBS:						
ANIGOZANTHUS SPECIES BULBINE FRUTESCENS DIANELLA SPECIES GERANIUM SPECIES GERANIUM SPECIES HEMEROCALLIS SPECIES LIXANDULA SPECIES LIXOPE SPECIES NANDINA SPECIES PHORMIUM SPECIES PHORMIUM SPECIES SANTOLINA SPECIES SANTOLINA SPECIES SALVIA SPECIES SALVIA SPECIES ZAUSCHNERIA SPECIES ZAUSCHNERIA SPECIES	DWARF KANGAROO PAWS NCN FLAX LILY GERANIUM EVERGREEN DAYLILY LAVENDER BIG BLUE LILY TURF HEAVENLY BAMBOO NEW ZEALAND FLAX SWORD FERN NCN LAVENDER COTTON SAGE GERMANDER CALIFORNIA FUCHSIA	1 GALLON 1 GALLON 1 GALLON 1 GALLON 1 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 5 GALLON 6 GALLON 1 GALLON 1 GALLON 1 GALLON 1 GALLON	18" O.C. 30" O.C. 30" O.C. 18" O.C. 2' O.C. 3' O.C. 3' O.C. VARIES 3' O.C. 3' O.C. 3' O.C. VARIES	L L M L L L L L		

MINIMUM

CONTAINER

SIZE

5 GALLON 5 GALLON 5 GALLON

5 GALLON

5 GALLON

1 GALLON 1 GALLON 1 GALLON 1 GALLON 1 GALLON 1 GALLON 2 GALLON

1 GALLON 1 GALLON

1 GALLON 1 GALLON 1 GALLON 1 GALLON 1 GALLON 1 GALLON 1 GALLON

2 GALLON 1 GALLON 5 GALLON

1 GALLON 1 GALLON 1 GALLON 1 GALLON

1 GALLON

1 GALLON 1 GALLON

1 GALLON

SPACING WULCOLS

N/A N/A N/A N/A N/A

3' O.C.

18" O.C. VARIES VARIES 3' O.C. 18" O.C. VARIES

2' O.C. 2' O.C. VARIES

VARIES VARIES

3' O.C. 2' O.C. 4' O.C. 3' O.C. VARIES

N/A 18" O.C.

MIX EVENLY MIX EVENLY MIX EVENLY MIX EVENLY

MIX EVENLY MIX EVENLY MIX EVENLY

MIX EVENLY MIX EVENLY

MIX EVENLY

WATER CONSERVATION STATEMENT:

PLANT MATERIAL HAS BEEN CHOSEN FOR WATER CONSERVING AND REDUCED MAINTENANCE CHARACTERISTICS. A MAXIMUM OF 25% OF NON-TURF PLANS WILL HAVE A MODERATE IRRIGATION WATER
REQUIREMENT AND A MINIMUM OF 50% OF NON-TURF PLANTS WILL HAVE A LOW TO VERY LOW IRRIGATION WATER REQUIREMENT.

IRRIGATION NOTE:

A FULLY AUTOMATIC IRRIGATION SYSTEM SHALL BE PROPOSED FOR THE PROJECT UTILIZING WATER CONSERVING METHODS. IRRIGATION SHALL BE INSTALLED THROUGHOUT THE BIO-RETENTION AREAS TO PROVIDE SUPPLEMENTAL IRRIGATION IN THE DRY MONTHS WITH REDUCED IRRIGATION DURING SEASONAL RAINFALL OR WET MONTHS.

MINIMUM TREE CLEARANCE NOTE:

- 1. SMALL TREES (15' TALL/WIDE) SHALL BE PLACED A MINIMUM OF 6' FROM BUILDINGS AND A MINIMUM OF 2' FROM EDGES OF PAVING.
- CURBS OR WALLS.

 2. MEDIUM TREES (25' TALL/WIDE) SHALL BE PLACED A MINIMUM OF 10' FROM BUILDINGS AND A MINIMUM OF 3' FROM PAVING, CURBS OR
- LARGE TREES (ABOVE 25' TALL/WIDE) SHALL BE PLACED A MINIMUM OF 15' FROM BUILDINGS AND A MINIMUM OF 3' FROM PAVING, CURBS OR WALLS.
- WALLS.
 4. 5' MINIMUM FROM JOINT TRENCH, WATER LINES, WATER METERS AND FIRE HYDRANTS.
 8' MINIMUM FROM SANITARY SEWER AND STORM DRAINS.
- 6. ALL TREES PLANTED WITHIN 5'-0" OF FUTURE CURBS, SIDEWALK, WALLS AND ALL UTILITIES, SHALL INCLUDE A ROOT BARRIER.

LANDSCAPE NOTES:

PLANT PALETTE IS FOR REFERENCE ONLY, NOT ALL TREES, SHRUBS, GRASSES, AND GROUNDCOVER LISTED WILL BE UTILIZED IN THE PREPARATION OF CONSTRUCTION DOCUMENTS. ADDITIONAL PLANTS MAY BE SUBSTITUTED DUE TO AVAILABILITY AND CONTAINER SIZE. PLANT MATERIAL SHALL BE SELECTED AT THE DESCRETION OF THE LANDSCAPE

LANDSCAPING SHALL BE OF THE TYPE AND SITUATED IN LOCATIONS TO MAXIMIZE OBSERVATION WHILE PROVIDING THE DESIRED DEGREE OF AESTHETICS. LANDSCAPING SHOULD BE TRIMMED SO AS NOT TO PROVIDE CONCEALMENT OPPORTUNITIES OR MEANS TO ACCESS ROOF. SECURITY PLANTING MATERIALS ARE ENCOURAGED ALONG PROPERTY LINE AND UNDER VULNERABLE WINDOWS.

ALL TRANSFORMERS AND UTILITY BOXES TO BE SCREENED WITH

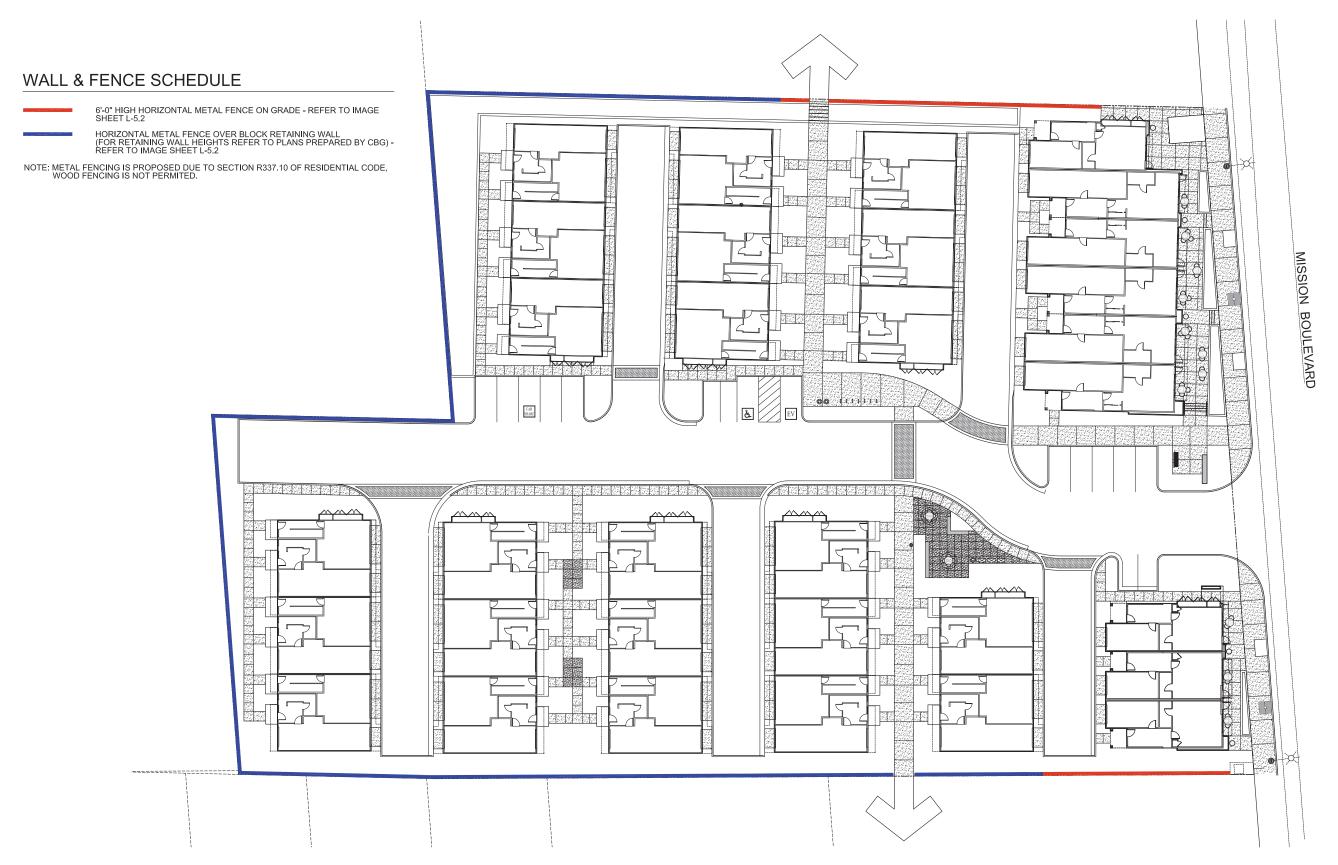
27177 MISSION BOULEVARD Hayward, CA

April 30, 2021



Attachment IV





Scale: 1"=20'-0"

27177 MISSION BOULEVARD

Hayward, CA

April 30, 2021

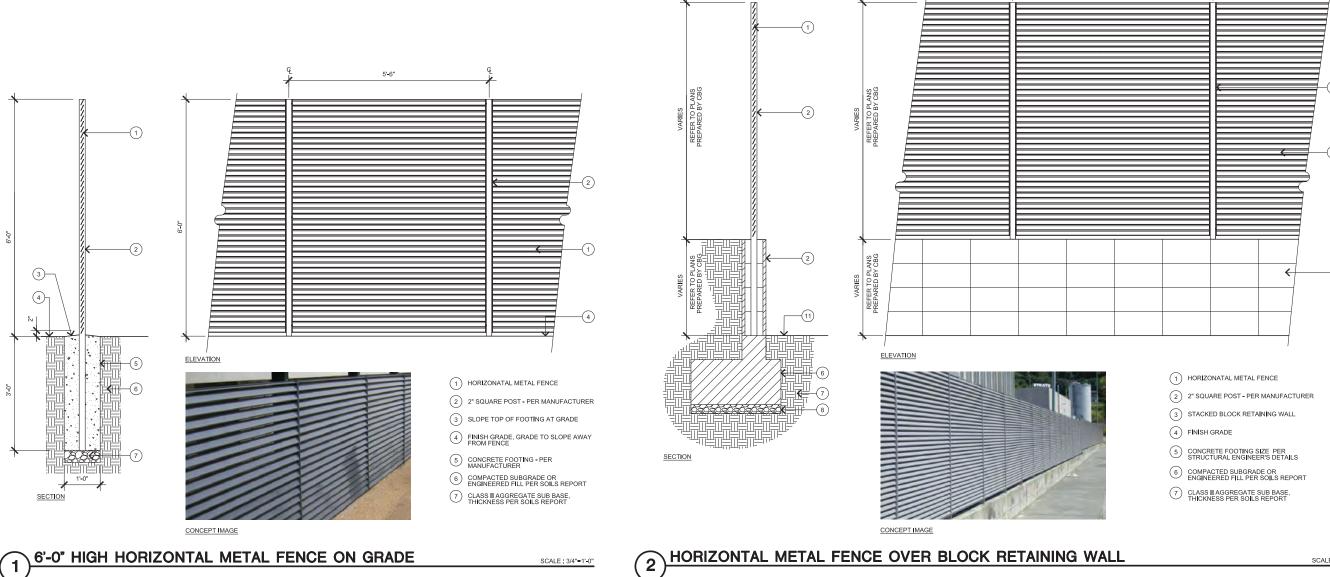
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Wall and Fence Plan L-5.1



PLAN VIEW



SCALE: 3/4"=1'-0"

HORIZONTAL METAL FENCE OVER BLOCK RETAINING WALL

SCALE: 3/4"=1'-0"

27177 MISSION BOULEVARD Hayward, CA April 30, 2021

PLANNING URBAN DESIGN LANDSCAPE ARCHITECTURE 201 4th street suite 101B, oakland, ca 94607 phone: 510.452.4190 www.r3studios.com



ACID-ETCHED CONCRETE PAVING



STAMPED ASPHALT AT PEDESTRIAN STREET CROSSINGS



WASTE RECEPTACLE

FINISH TO BE ALUMINUM TEXTURE POWDERCOAT



BENCH

FINISH TO BE ALUMINUM TEXTURE POWDERCOAT



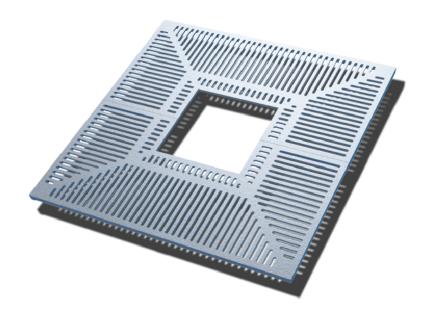
BICYCLE RACK

FINISH TO BE ALUMINUM TEXTURE POWDERCOAT



MAILBOX STATION

FINISH TO BE ALUMINUM



TREE GRATE (MISSION BOULEVARD)

TREE GRATE TO BE ADA TREE GRATE 1/2", FINISH TO BE CAST ALUMINUM

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April 30, 2021

Hayward, CA

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Site Furniture

L-6.1



TABLE AND CHAIRS WITH UMBRELLA

FINISH TO BE ALUMINUM TEXTURE POWDERCOAT



STACKED DECORATIVE BLOCK SEATWALL

FINISH TO BE GROUND FACE, COLOR TO BE 225



STREET LIGHT

FINISH TO BE ALUMINUM TEXTURE POWDERCOAT



PROJECT IDENTIFICATION WALL



CONCEPT

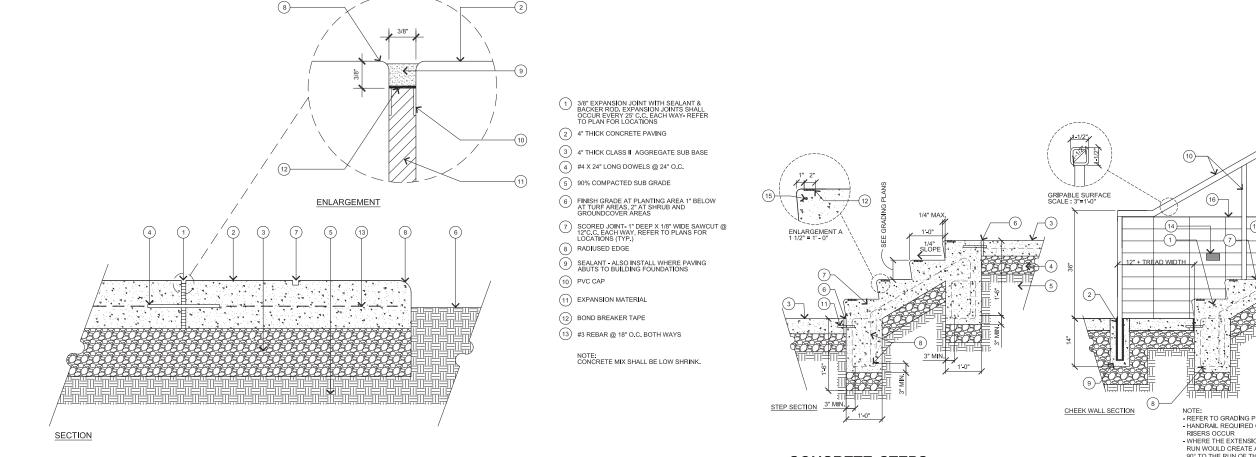
STORE FRONT PLANTERS

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Site Furniture L-6.2





3 CONCRETE PAVING 10

3" X 12" CAN FORM, POUR ROCK SOLID.

4" THICK CLASS II AGGREGATE SUB BASE

5 COMPACTED SUBGRADE OR ENGINEERED FILL PER SOILS REPORT

(6) 3/8" PREMOLDED EXPANSION JOINT 7 REINFORCED CONCRETE STEPS, ALL STEPS SHALL BE SLIP-RESISTANT.

8 #4 REBAR @ CONTINUOUS.

9 THICKENED CONCRETE TO SUPPORT POST - 18" DEEP X 6.5" Ø SQUARE HANDRAIL WITH ROUNDED EDGES AND SQUARE POST (ONLY WHERE THERE ARE 4 OR MORE STEPS), RIGHT SIDE OF STAIRWAY

12" GREASED #4 STEEL DOWEL @ 18" O.C. AT ALL CONSTRUCTION JOINTS.

1/4" WARNING GROOVES CUT INTO NOSING OR 2" INLAY WARNING STRIP WITH CONTRASTING COLOR, ALL TREADS (TYP.).

#3 REBAR TIES @ 18" O.C.

14) WALL LIGHT

(15) #4 NOSE BAR 3" FROM EDGE.

BRICK VENEER RAISED PLANTER WALL

NOTE:
- REFER TO GRADING PLAN FOR ELEVATIONS OF STAIRS AND LANDINGS
- HANDRAIL REQUIRED ONLY WHERE FOUR OR MORE CONSECUTIVE
RISERS OCCUR
- WHERE THE EXTENSION OF THE HANDRAIL IN THE DIRECTION OF STAIR
RUN WOULD CREATE A HAZARD, THE EXTENSION SHALL BE TURNED
90° TO THE RUN OF THE RAMP
- METAL SHALL BE FILLET WELD AND GROUND SMOOTH

SCALE: 3/4"=1'-0"

CONCRETE PAVING

CONCRETE STEPS (WITH HANDRAIL WHERE REQUIRED)

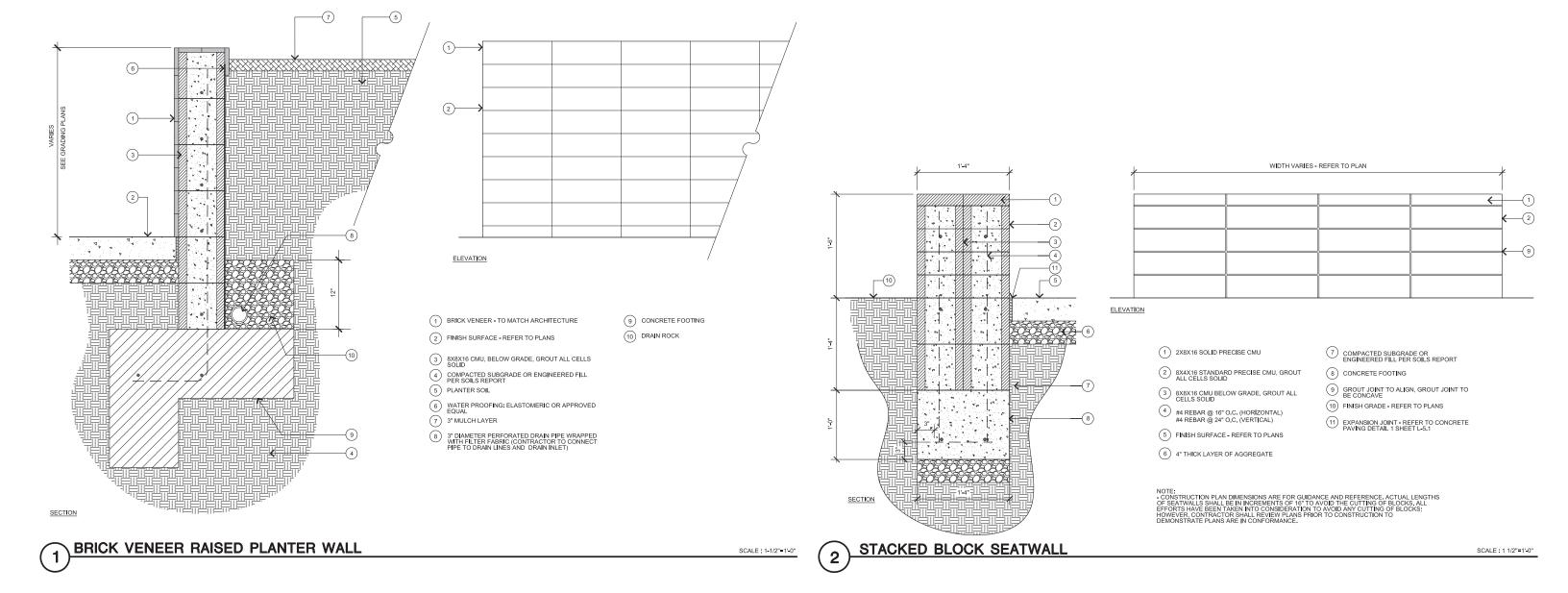
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April 30, 2021

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Construction Details L-7.1





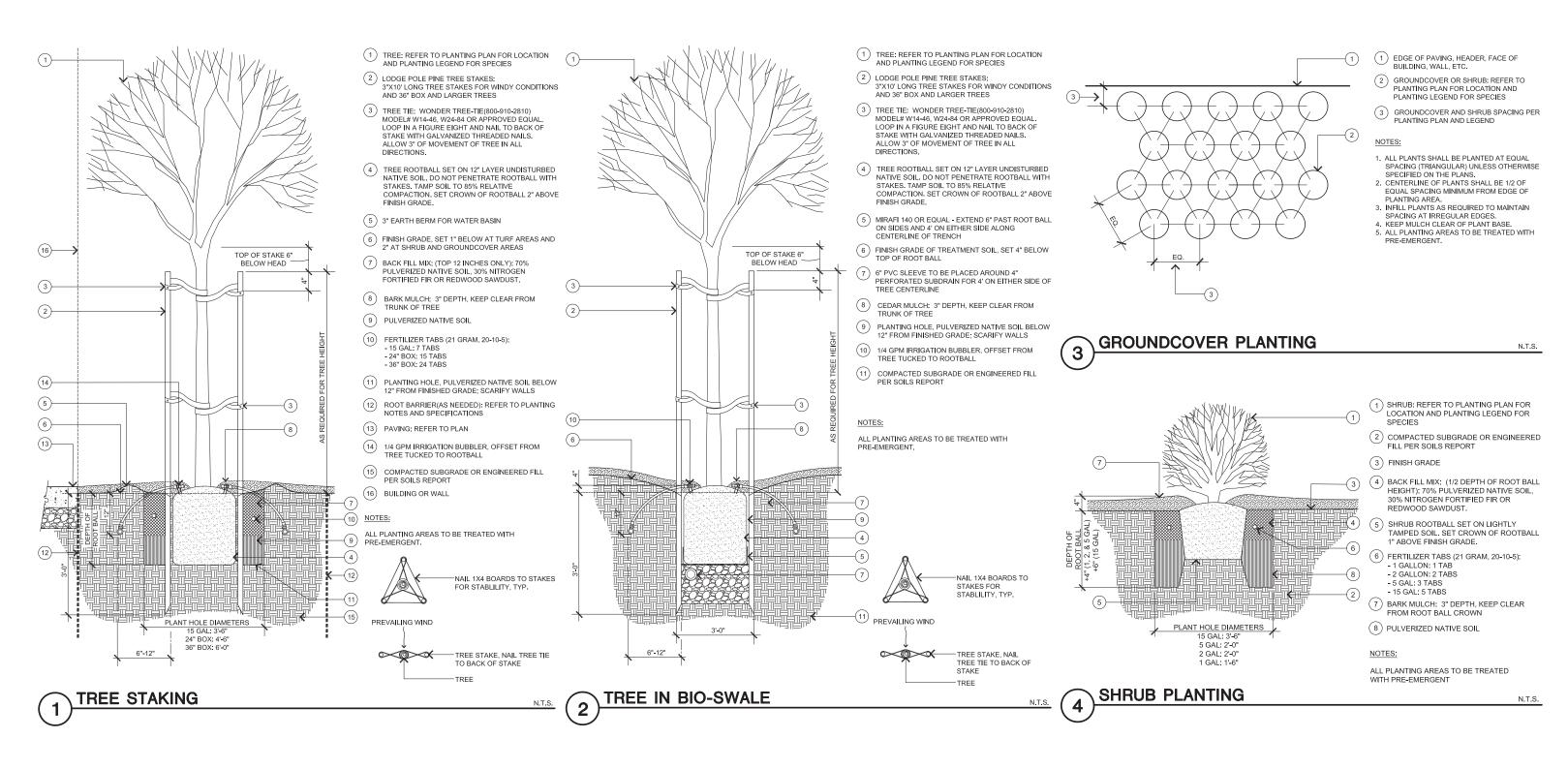
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Hayward, CA April 30, 2021

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Construction Details





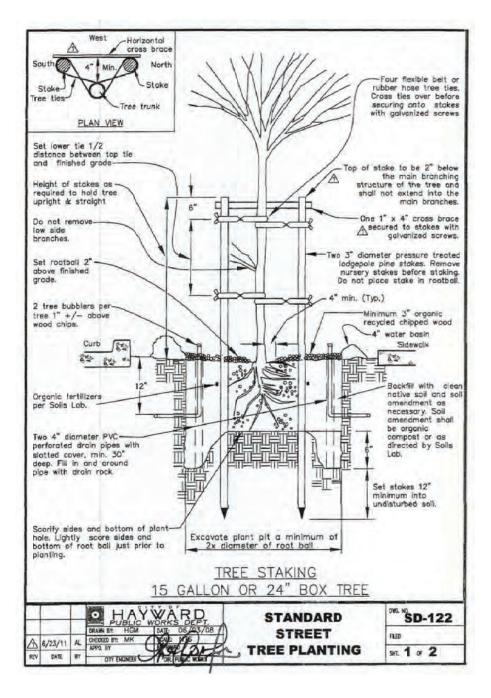
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April 30, 2021

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Planting Details (Private)





STREET TREE PLANTING SPECIFICATIONS:

- Tree shall be healthy, disease and insect—free, well rooted, and properly trained with a straight trunk that can stand upright without support.
 Tree shall exhibit a central leader, or a main branch that can be trained as a central leader. Branches shall be well—developed and shall be evenly and radially distributed around the trunk. Root ball shall not exhibit kinked or circling roots.
- Tree shall comply with federal and state laws requiring inspection for plant diseases and pest infestation. Clearance from the county agricultural commissioner, as required by law, shall be obtained before planting trees delivered from outside the county.
- 3. Prior to planting tree, determine the location of existing or future underground utilities. Locate tree a minimum of 5 feet from lateral service lines and driveways. Locate tree a minimum of 15 feet from a light pole, and a minimum of 30 feet from the face of a traffic signal, or as otherwise specified by the City.
- 4. Tree pit shall be tested for proper drainage prior to planting tree. Fill pit with water; if water remains after a 24-hour period, auger three 4"-diameter by 3-foot deep holes at the bottom of the tree pit. Backfill with drain rock.
- Set tree in an upright and plumb position. As much as possible, tree shall be positioned such that dominant branches are parallel to the roadway and are oriented away from potential conflicts.
- If required by the City, a pressure-compensating bubbler, or drip emitters, shall be provided to each tree.
- 7. Depending on the planter strip width, or the tree well size and the tree species being planted, a 24" deep root—barrier may be required by the City to be placed between the root—ball and the curb and/or sidewalk. Length of strip barrier or size of the box barrier will be specified by the City.
- Stakes are to be removed when the tree diameter meets or exceeds the diameter of the stake.

-			PUBLIC WORKS DEPT.
Т			OHEOKED BY: MHW SAME: NTS
REV	DATE	BY	CITY ENGINEER P. DII. SWELLC WORKS

STANDARD STREET TREE PLANTING FILED SHT. 2 OF 2

27177 MISSION BOULEVARD Hayward, CA

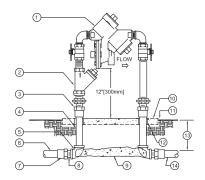
April 30, 2021

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- REDUCED PRESSURE BACKFLOW
 ASSEMBLY.
- 2 YB "Y" STRAINER SYSTEM (AS REQUIRED).
- WROUGHT COPPER MALE ADAPTER-2 TOTAL (SOLDER x THREAD CONNECTION).
- COPPER TYPE "K" PIPE (LENGTH AS REQUIRED).
- (SOLDER x THREAD CONNECTION).
- PVC MAIN LINE TO POINT OF CONNECTION.
- (7) BUSH AS NECESSARY FOR SIZE TRANSITION
- 8 SCHEDULE 40 PVC MALE ADAPTER-2 TOTAL. (9) CONCRETE SUPPORT BLOCK.
- (10) CONCRETE PAD-SEE ENCLOSURE DETAIL
- 11) FINISH GRADE.
- 12 PVC SLEEVE BOTH SIDES. (13) REFER TO IRRIGATION LEGEND
- (14) PVC MAIN LINE TO IRRIGATION SYSTEM

(1) FINISH GRADE

2 JUMBO RECTANGULAR PLASTIC VALVE BOX WITH BOLT DOWN LID. ONE VALVE PER BOXNO EXCEPTIONS. INSTALL BOX AS SHOWN IN BOX INSTALLATION DETAIL.

③ SCHEDULE 80 PVC UNION BALL VALVE (ONE PER VALVE)

PRESSURE REGULATOR (INCLUDED IN DRIP ZONE KIT)

6 VALVE I.D. TAG (CONTROLLER AND STATION NUMBER).

7 SCHEDULE 40 MALE ADAPTER

(8) BRICK-1 EACH CORNER.

Hayward, CA

- INSTALL A FREEZE PREVENTATIVE BLANKET AROUND BACKFLOW ASSEMBLY, BLANKET SHALL BE GREEN.
- DO NOT SOLDER CONNECT FITTINGS WHILE THREADED INTO BACKFLOW ASSEMBLY. THIS MAY CAUSE DAMAGE TO DEVICE.
- 3. NIPPLES AND FITTINGS TO BE SAME IPT SIZE AS BACKFLOW ASSEMBLY
- PROVIDE A STAINLESS STEEL ENCLOSURE TO COMPLETELY ENCLOSE DEVICE, INSTALL ENCLOSURE TO CONCRETE BASE AS DIRECTED BY MANUFACTURER.

(9) PVC MAIN LINE.

10 UPC APPROVED SCHEDULE 40 PVC TEE.

11 SCHEDULE 80 PVC NIPPLE-(4-TOTAL) LENGTH AS REQUIRED.

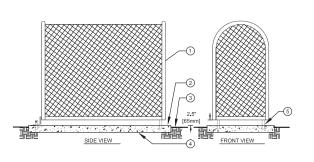
(2) PEA GRAVEL OR 3/4" [20mm] DRAIN ROCK - 4" [102mm] DEEP BELOW VALVE (NO SOIL IN VALVE

(3) 19 GAUGE 1/2" [13mm] SQUARE WIRE MESH.

(5) VALVE CONTROL WIRE- PROVIDE 3M-DBY SEAI PACKS AT ALL SPLICES AND 3' [1m] OF EXCESS UF WIRE IN A 1" [25mm] DIAMETER COIL.

Y-FILTER (INCLUDED IN DRIP ZONE KIT)

(TxT). SCHEDULE 80 PVC 90° ELBOW



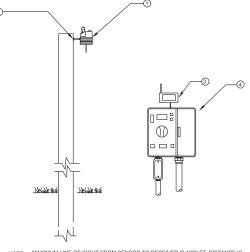
- 1 STAINLESS STEEL ENCLOSURE TO COMPLETELY ENCLOSE DEVICE
- SET PAD 1/2" [13MM] ABOVE FINISH GRADE
- \bigoplus 6" [150mm] THICK CONCRETE PAD FOR ENCLOSURE SUPPORT TO EXTEND 6" [150mm] BEYOND ENCLOSURE ON ALL SIDES. CONCRETE TO HAVE MEDIUM BROOM FINISH.
- (5) MOUNTING BRACKETS (STANDARD WITH ENCLOSURE) TO BE SET INTO CONCRETE PAD. PROVIDE LOCKING TAB TO ACCEPT PADLOCK PER MANUFACTURER'S INSTRUCTION.

- 24" MIN.
- (1) IRRIGATION CONTROLLER
- (2) 120 VOLT SERVICE IN RIGID STEEL CONDUIT
- (3) 120 VOLT LOCKABLE ON/OFF SWITCH PROVIDED UNDER IRRIGATION CONTRACT
- 4) 120 VOLT SERVICE TO CONTROLLER LOCATION PROVIDED BY ELECTRICAL
- 5 SCHEDULE 40 GREY PVC ELECTRICAL CONDUIT FOR LOW VOLTAGE WIRE

(2) 8" [200mm] CLASS 160 OR SCHEDULE 40 PVC PIPE (NOTCH TO FIT OVER MAIN LINE PIPE).

(5) PEA GRAVEL OR 3/4" [20mm] DRAIN ROCK - 4" [100mm] DEEP (NO SOIL IN VALVE BOX).

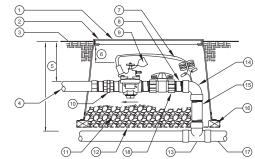
- **6** EXTERIOR WALL
- 7 ELECTRICAL PULL BOX PER ELECTRICAL CODE
- 8 FINISH GRADE



MAXIMUM LINE OF SIGHT FROM SENSOR TO RECEIVER IS 1000 FT, DISTANCE IS MAXIMUM LINE OF SIGHT FROM SENSOR TO RECEIVER IS 1000 FT. DISTANCE LESS IF OBSTRUCTIONS EXIST. SENSOR MUST BE INSTALLED IN "CLEAR SPACE" WHERE IT IS EXPOSED TO UNOBSTRUCTED RAINFALL AND IS CLEAR OF IRRIGATION SPRAY.

- (1) WIRELESS CLIMATE SENSOR TRANSMITTER
- ② SUITABLE POST, POLE, OR GUTTER MOUNT. MOUNT IN LOCATION WHERE SENSOR CAN RECEIVE FULL SUN, IS OPEN TO RAINFALL AND OUT OF SPRINKLER SPRAY PATTERN
- (3) SENSOR RECEIVER
- 4 CONTROLLER

Attachment IV



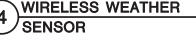
- (1) REMOTE CONTROL VALVE WITH FLOW CONTROL
 AND MANUAL BLEED (PRESSURE REGULATOR
 WHERE SHOWN ON PLANS).
 (3) VALVE LID, TAG (CONTROLLER AND ST
- ② USE A 14" X 19" RECTANGULAR PLASTIC VALVE BOX WITH BOLT DOWN LID FOR 1" VALVES, FOR 1,5" AND LARGER VALVES INSTALL BALL VALVE WITHIN A SEPARATE 10" FOUND BOX OR ONE BALL VALVE PER MANIFOLD OF VALVES, GATE VALVE SIZE SHALL BE SAME AS LARGEST VALVE WITHIN MANIFOLD. ONE VALVE PER BOX. NO EXCEPTIONS. INSTALL BOX AS SHOWN IN BOX INSTALLATION DETAIL.
- (3) FINISH GRADE.
- (4) PVC LATERAL LINE. (5) REFER TO IRRIGATION SPECS.
- 6 3" [75mm] MIN, 6" [150mm] MAX.
- (7) VALVE CONTROL WIRE- PROVIDE SEAL PACKS AT ALL SPLICES AND 3' [1m] OF EXCESS UF WIF IN A 1" [25mm] DIAMETER COIL.

- 9 VALVE I.D. TAG (CONTROLLER AND STATION NUMBER). (10) SCHEDULE 80 PVC THREADED UNION.
- 11) PEA GRAVEL OR 3/4" DRAIN ROCK- 4" [100mm] DEEP BELOW VALVE (NO SOIL IN VALVE BOX)
- (2) 19 GAUGE 1/2" [12mm] SQUARE WIRE MESH.
- (13) UPC APPROVED SCHEDULE 40 PVC TEE.
- (TxT), SCHEDULE 80 PVC 90° ELBOW
- (15) SCHEDULE 80 PVC NIPPLE- LENGTH AS REQUIRED
- (16) BRICK-1 EACH CORNER,
- (17) PVC MAIN LINE.
- (8) SCHEDULE 80 PVC UNION BALL VALVE (ONE PER VALVE).

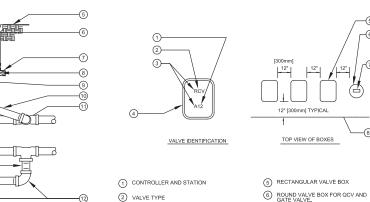
REDUCED PRESSURE **BACKFLOW ASSEMBLY**

BACKFLOW ASSEMBLY **ENCLOSURE**

INTERIOR MOUNTED CONTROLLER







- (3) HEAT BRAND LETTERS AND NUMBERS INTO LID.
- (4) VALVE BOX COVER
- (7) HEAT BRAND LETTERS AND NUMBERS INTO LID (TYPICAL).

 - 8 EDGE OF LAWN, WALK, FENCE, CURB, ETC.

INSTRUCTIONS:

- CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.
- SET BOXES 1" [25mm] ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.
- 3. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE, INSTALL IN LAWN ONLY IF GROUND COVER DOES NOT EXIST ADJACENT TO LAWN.
- 4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF LAWN, WALK, FENCE.
- AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
- INSTALL EXTENSION BY VALVE BOX MANUFACTURER AS REQUIRED TO COMPLETELY ENCLOSE ASSEMBLY FOR EASY ACCESS.

NOTE: NIPPLES AND FITTINGS TO BE SAME SIZE AS VALVE IPT INLET THREAD SIZE.

QUICK COUPLING VALVE _scale: NONE

TOP VIEW

(9) SCHEDULE 80 PVC THREADED NIPPLE. 10" [250mm] LONG SCHEDULE 80 PVC THREADED NIPPLE.

① UPC APPROVED SCHEDULE 40 PVC TEE OR ELBOW.

(12) SCHEDULE 80 PVC THREADED 90° ELL.

1) 10" ROUND PLASTIC VALVE BOX WITH BOLT DOWN 7 19 GAUGE 1/2" [13mm] SQUARE WIRE MESH.

VALVE BOX **INSTALLATION**

REMOTE CONTROL VALVE (DRIPZONE)

WEATHERPROOF WIRE SPLICE ASSEMBLY

2. TWIST CONNECTOR AROUND WIRES CLOCKWISE UNTIL HAND TIGHT, DO NOT OVERTIGHTEN.

4. PLACE WIRES WHICH EXIT TUBE IN WIRE EXIT HOLES AND CLOSE CAP UNTIL IT SNAPS.

3. INSERT WIRE ASSEMBLY INTO PLASTIC TUBE UNTIL WIRE CONNECTOR SNAPS PAST LIP IN BOTTOM

1. STRIP WIRES APPROXIMATELY 1/2" (13 mm) TO EXPOSE WIRE.

5. INSPECT FINAL SPLICE ASSEMBLY TO BE SECURE AND FINISHED.

GATE VALVE

(7) 19 GAUGE 1/2" [13mm] SQUARE WIRE MESH.

MALE ADAPTER, REFER TO LEGEND FOR FITTING TYPE.

10" ROUND PLASTIC VALVE BOX WITH BOLT DOWN LID.

3 PVC MAIN LINE. (4) FINISH GRADE.

6 BRICK-2 TOTAL.

(8) GATE VALVE.

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PLANNING URBAN DESIGN LANDSCAPE ARCHITECTURE 201 4th street suite 101B, oakland, ca 94607 phone: 510.452.4190 www.r3studios.com

L-9.1

Irrigation Details

April 30, 2021 TTLC Management, Inc. an Arizona Corp.

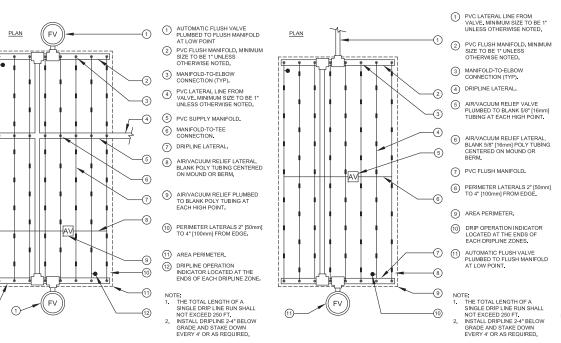
(2) 1 1/4" x 1 1/4" x 3/16" [30mm x 30mm x 5mm] ANGLE IRON 30" [760mm] LONG W/2 STAINLESS STEE! STRAPS (ONE AROUND QCV).

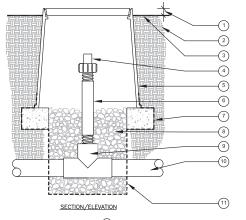
3* [75mm] LONG SCHEDULE 80 PVC THREADED NIPPLE.

(5) FINISH GRADE.

(6) QUICK COUPLING VALVE

SCALE: NONE





- 1" [25mm] ABOVE FINISH GRADE.
- NATIVE SOIL. FINISH GRADE.
- FLUSH VALVE. (5) ROUND PLASTIC VALVE BOX. REFER TO IRRIGATION SPECS FOR BOX SIZE, HEAT BRAND "FV" ON LID IN 2" [50mm] HIGH CHARACTERS.
- USE ONE FLUSH VALVE FOR EVERY 7 GPM PEI ZONE. LOCATE AT LOW POINTS. FLUSH RATE IS 0.8 GPM. FLUSH PRESSURE IS 2 PSI.
- 6 3/4" [20mm] SCH 80 PVC NIPPLE (LENGTH AS REQUIRED).
 - (7) BRICK 2 TOTAL
 - (8) PEA GRAVEL 18" (450mm) DEEP. PVC TEE (SxSxT) WITH 3/4" [20mm] THREADED OUTLET.
 - 10 PVC PIPING.
 - 19 GAUGE 1/2" [13mm] SQUARE WIRE MESH.
 - 5 TORO LOC-EZE X 1/2" FPT TEE (FTF16).
- -(3) (5) -(8)

SECTION/ELEVATION

- 1 1" ABOVE FINISH GRADE. 8 BRICK SUPPORTS (2 COMMON BRICKS
- (2) FINISH GRADE.
- 6" ROUND PLASTIC VALVE BOX. HEAT BRAND "AR" ON LID IN 1" HIGH CHARACTERS.
- TORO DL2000 AIR/VACUUM RELIEF VALVE (YD-500-34).
- 6 TORO DL2000 TUBING (RGP-XX-XXX) OR TORO BLUE STRIPE POLY TUBING (EHD1645-XXX) AIR-RELIEF LATERAL.
- (7) PEA GRAVEL SUMP (6" DEEP).
- 1 FINISH GRADE (9) NATIVE SOIL PER SPECIFICATIONS. (2) 24" LOOP OF TWO WIRE CABLE.
- NOTE: USE ONE AIR/RELIEF VALVE FOR EVERY 7 GPM PER ZONE. LOCATE AT HIGH POINTS.
- (4) BRICK-ONE ON EACH CORNER (5) SCHEDULE 40 PVC SWEEP ELLS

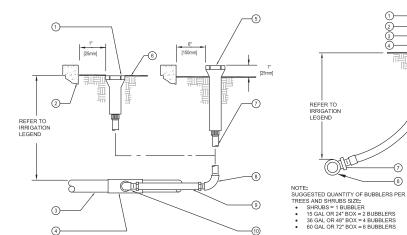
③ GREY RECTANGULAR PLASTIC

HEAT BRAND "PB" INTO LID.

6 SCHEDULE 40 U.L. LISTED PVC CONDUIT

- PEA GRAVEL OR 3/4" [20mm] DRAIN ROCK - 4" [102mm] DEEP BELOW VALVE (NO SOIL IN VALVE BOX).
- 8 SEAL ALL CONDUIT OPENINGS

TORO DL 2000 CENTER **FEED LAYOUT**



- 1 POP-UP LAWN SPRAY SPRINKLER
- 2 WALL, WALK, CURB OR BUILDING
- (3) PVC LATERAL LINE
- (4) UPC APPROVED SCHEDULE 40 PVC TEE OR ELBOW (5) POP-UP SHRUB SPRAY SPRINKLER OR BUBBLER

POP-UP SPRAY

- 6 FINISH GRADE
- 7 1/2" [13mm] SCHEDULE 80 PVC THREADED NIPPLE (LENGTH AS REQUIRED).

SPRINKLER RISER

8 1/2" [13mm] SCHEDULE 40 PVC THREADED 90°

(9) 1/2" [13mm] FLEXIBLE IPS HOSE 6" [150mm] LONG WITH MALE ADAPTERS OR 1/2" [13mm] FLEXIBLE SWING JOINT (1/2" K") [13mm x 150mm] WITH A MINIMUM PRESSURE RATING OF 100 PSI

(10) 1/2" [13mm] SCHEDULE 40 PVC STREET ELL.

TREE AND SHRUB

BUBBLER (TO BE INSTALLED ON <u>TOP</u> OF ROOTBALL).

2 1/2" [13mm] SCH. 40 MALE ADAPTER.

4 FINISH GRADE.

(3) 6" [150mm] STEEL STAPLE.

5 TREE OR SHRUB ROOTBALL.

(6) 1/2" [13mm] IPS FLEXIBLE PVC.

TORO DL 2000 END

FEED LAYOUT

BUBBLER

7 PVC TEE (SST), ELBOW (ST) OR FEMALE ADAPTER.

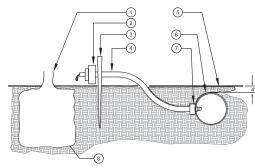
(1) EDGE OF ROOTBALL (TYPICAL).

(8) PVC LATERAL LINE.

9 TREE STAKES.

10 TREE OR SHRUB.

TORO DL 2000 FLUSH VALVE (PVC TEE)

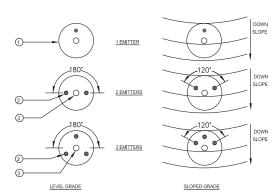


TO INSERT BARBED CONNECTOR INTO POLYETHYLENE TUBING, USE INSERTION TOOL. WHERE POLYETHYENE TUBING CAN BE PLACED ADJACENT TO SHRUB ROOTBALL. A BARBED EMITTER MAY BE INSTALLED DIRECTLY INTO POLYETHYENE TUBING AND DISTRIBUTION TUBING ELIMINATED. POINT OF WATER EMISSION FROM BARBED EMITTER MUST DRIP WATER DIRECTLY ON ROOTBALL.

- (2) EMITTER REFER TO EMITTER SCHEDULE FOR QUANTITY OF EMITTERS PER PLANT.
- (3) TUBING SUPPORT STAKE (SALCO DTS-200-400)
- (4) 1/4" TUBING DO NOT EXCEED 3' [1m] IN LENGTH.
- (5) FINISH GRADE.
- (6) SALCO PVC FLEX HOSE, INSTALL 4" [100mm] BELOW FINISH GRADE,
 - 7 BARBED MALE ADAPTER.
 - 8 EDGE OF ROOTBALL.

SALCO FLEX TUBING SCALE: NONE **EMITTER PLACEMENT**

TORO DL 2000 AIR VACUUM RELIEF VALVE



- (1) EDGE OF ROOTBALL (TYPICAL)
- EMITTER OR DISTRIBUTION TUBE OUTLET
 (TYPICAL)

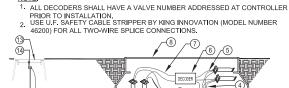
PLANT SIZE	EMITTER SPECIFACATION	FLOW (GPH)/PER EMITTER OR OUTLET	QUANTITY OF EMITTERS PER SHRUB/TREE
1 GALLON SHRUBS	USE SLV-PS-CV-1	1 GPH	2
5 GALLON SHRUBS	USE SLV-PS-CV-2	2 GPH	2
15 GALLON	USE SLV-PS-CV-2	2 GPH	3

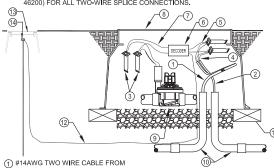
SALCO EMITTER PLACEMENT AND

IRRIGATION TWO WIRE PULL BOX

6

VALVE BOX WITH BOLT DOWN LID.





- CONTROLLER, REFER TO IRRIGATION NOTES FOR MODEL NUMBER OF WIRE. ALLOW A 24" SLACK PER DECODER. USE ELECTRICAL TAPE TO HOLD SLACK CABLES TOGETHER.
- 2 TWO WIRE CABLE TO NEXT DECODER 3 3M DBR/Y-6 OR APPROVED EQUAL WATERPROOF SPLICE KIT (4 TOTAL)
- A MAXIMUM OF 4" OF WIRE SHALL BE STRIPPED FROM TWO WIRE CABLE WHEN SPLICING AT DECODERS.
- ⑤ CONNECT CORRECT DECODER WIRES TO TWO WIRE CABLES.
- 6 DECODER
- 7 CONNECT CORRECT DECODER WIRES TO VALVE SOLENOID WIRES 8 VALVE BOX. REFER TO REMOTE
- CONTROL VALVE DETAIL FOR INSTALLATION INSTRUCTIONS

- REMOTE CONTROL VALVE. REFER TO REMOTE CONTROL VALVE DETAIL FOR INSTALLATION INSTRUCTIONS.
- 1.25" CONDUIT FOR 2 WIRE CABLE
 WITH LONG SWEEPS IN AND OUT OF EACH VALVE BOX, SEAL ALL CONDUIT OPENINGS WITH WATERPROFF FOAM. TO BRICK-ONE ON EACH CORNER
- #6 BARE COPPER GROUND WIRE. SPLICE INTO GROUND WIRE AT DECODER, ONLY REQUIRED AT EVERY 10TH DECODER AND AT THE ENDS OF THE LINE.

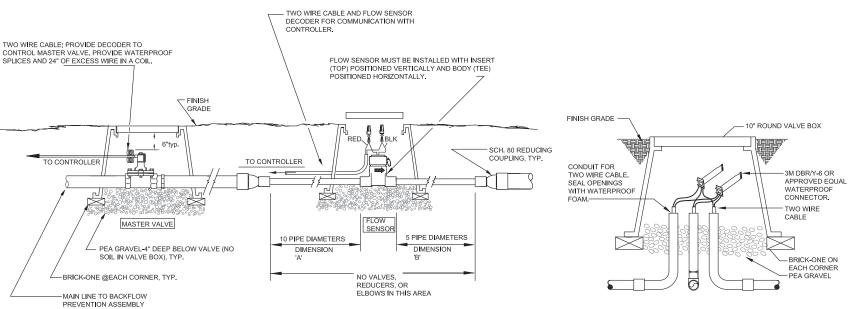
 (3) 8' LONG COPPER GROUND ROD.
- LOCATE A MINIMUM OF 8' AWAY FROM DECODER AND TWO WIRE CABLE, LOCATE IN 10" ROUND BOX.
- (4) CADWELD CONNECTIONS

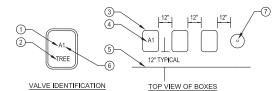
DECODER WIRING IN CONDUIT

27177 MISSION BOULEVARD **Irrigation Details** Hayward, CA L-9.2



April 30, 2021





VALVE IDENTIFICATION

① CONTROLLER ID. 2 ALL TREE VALVES TO HAVE TREE BRANDED INTO LID.

(3) RECTANGULAR VALVE BOX.

4 HEAT BRAND VALVE TYPE PER TABLE OR CONTROLLER
ID AND STATION NUMBER INTO LID.

(5) EDGE OF LAWN, WALK, FENCE, CURB, ETC. 6 STATION NUMBER.

(7) ROUND VALVE BOX FOR QCV AND GATE VALVE, HEAT BRAND VALVE TYPE INTO INTO LID PER TABLE.

ITEMS TO BRAND: BRAND CODE PRESSURE REDUCER MASTER VALVE MV FLOW SENSOR FS HYDROMETER НМ MAIN LINE AIR RELIEF ARV REMOTE CONTROL VALVE QUICK COUPLER QC SPLICE BOX SB PULL BOX PB LIGHTNING ARRESTOR GROUND ROD

INSTRUCTIONS:
1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE

SERVICING VALVE.
SET BOXES 1" ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.

3. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE, INSTALL IN LAWN ONLY IF GROUND COVER DOES NOT EXIST ADJACENT TO LAWN.

SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF

LAWN, WALK, FENCE, CURB, ETC.
AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES, INSTALL EXTENSION BY VALVE BOX MANUFACTURER AS REQUIRED TO

COMPLETELY ENCLOSE ASSEMBLY FOR EASY ACCESS

Attachment IV LATERAL, MAIN, AND 6 MAIN AND WIRES ONLY

NOTES: 1. ALL MAIN SUPPLY LINES AND LATERAL LINES SHALL BE PLACED IN SLEEVES UNDER

PAVED SURFACES. INSTALL LOW VOLTAGE WIRES WITHIN A SEPARATE CONDUIT UNDER PAVED SURFACES. DO NOT TAPE WIRES WITHIN CONDUIT. REUSE SALVAGED EXCAVATED FILL AND COMPACT TO ORIGINAL DENSITY IN LANDSCAPE AREAS. ALL OTHER AREAS SHALL BE AT 95% COMPACTION. BACKFILL MATERIAL SHALL BE THE EARTH EXCAVATED FROM THE TRENCHES. FREE FROM MATERIAL SHALL BE THE EARTH EXCAVALED FROM THE TRENGTES, FREE FROM ROCKS (ANYTHING LARGER THAN 2"), CONCRETE CHUNKS, AND OTHER FOREIGN OR COARSE MATERIALS.

3. WHEN 12" POP-UP SPRINKLER HEADS ARE USED, INCREASE THE DEPTH OF LATERAL TO 18" AT THE SPRINKLER LOCATION ONLY.

(1) FINISH GRADE.

(2) CLEAN BACKFILL MATERIAL.

LATERAL LINE.

3" DETECTABLE WARNING TAPE OVER MAIN LINE. INSTALL 3" ABOVE MAIN LINE. USE CHRISTY MODEL #TA-DT-3-BIRR FOR POTABLE IRRIGATION SYSTEMS OR #TA-DT-3-PRW FOR RECYCLED IRRIGATION WATER SYSTEMS

(5) MAIN LINE. (6) TWO WIRE CABLE IN CONDUIT

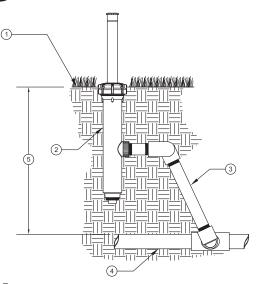
INSTALLATION DETAIL MASTER VALVE/FLOW SENSOR

2-WIRE SPLICE BOX AT MAIN LINE TEE OR 3 WAY WIRE BRANCH

VALVE BOX **INSTALLATION**

TRENCHING

SCALE: NONE



- 1 FINISH GRADE.
- (2) 570 POP-UP DRIP OPERATION INDICATOR ASSEMBLY (TORO MODEL 570-DRIP-IND) INSTALLED AT FURTHEST POINT DOWNSTREAM OF ZONE
- ③ PVC OR SWING PIPE SWING JOINT ASSEMBLY.
- 4 PVC DRIP ZONE FOOTER.
- 5 DEPTH OF PVC LINE PER SPECIFICATIONS. NOTE: TEFLON TAPE ALL THREADED JOINTS



27177 MISSION BOULEVARD Hayward, CA

April 30, 2021

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Irrigation Details L-9.3



WATER USE ESTIMATION - MOREAU MISSION

WATER TYPE	POTABLE
SITE ETO=	44.2

REGULAR LANDSCAPI	E AREAS											
HYDROZONE #			AREA (SQ. FT) ETAF X AREA (HA)	ETWU (GAL/YR)		HCF/ YEAR	PERCENTAGE OF					
	TITOLOGIC NAME	USE TYPE	FACTOR (PF)	METHOD	EFFICIENCY	ETAF (FF/IE) (HA)		(IA)		YEAR	HOLY ILAK	LANDSCAPE
1	SHRUBS/GC	LOW	0.3	DRIP	0.81	0.370	16,896	6,258	171,488	0.53	229.26	75%
2	SHRUBS/GC	мор	0.5	DRIP	0.81	0.617	5,632	3,477	95,271	0.29	127.37	25%
						TOTALS	22,528	9,734	266,759	0.82	356.63	100%

SPECIAL LANDSCAPE	AREAS						
HYDROZONE #	HYDROZONE NAME						
			1			1	0%
			TOTALS	0			0%

ETo = REFERENCE EVAPOTRANSPIRATION

0.62 = CONVERSION FACTOR (GALLONS/SQ.FT/YR)

LA=LANDSCAPED AREA (SQUARE FEET)

0.55= ET ADJUSTMENT FACTOR

MAWA	GALLONS/YR ACRE FEET/YR	277,811 0.85	
	HCF/YR	371.40	

ETWU	GALLONS/YR	266,759	
	ACRE FEET/YR	0.82	
	HCF/YR	356.63	

SITE IRRIGATION		MAWA COMPLIANT
81.0%	0.35	YES

ETAF Calculations REGULAR LANDSCAPE AREAS					
TOTAL ETAF x AREA	9,734				
TOTAL AREA	22,528				
AVG. ETAF	43.21%				

MAWA FORMULA	ETWU FORMULA
XIMUM APPLIED WATER ALLOWANCE (MAWA) GALLONS PER YEAR	ESTIMATED TOTAL WATER USE (ETWU) GALLONS PE YEAR
AWA = (ETo)(0.62)[(LA x 0.45) + (0.55 x SLA)]	ETWU= ((ETO)(.62)(ETAF x LA))

HA = HYDROZONE AREA (SQ.FT)

IE = IRRIGATION EFFICIENCY (0.75)-ROTORS/SPRAY

27177 MISSION BOULEVARD Hayward, CA April 30, 2021

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