Storm Water Control Plan

Felker Street Apartments
(Residential Development)
150 Felker St., Santa Cruz, CA
APN 008-181-23

Revised 06.17.22

By:

C2G / Civil Consultants Group, Inc. 4444 Scotts Valley Drive, Suite 6 Scotts Valley, CA 95066 (831) 438-4420

Storm Water Control Plan

I. Project Information

- a. Residential Development Site Improvement Plans for "Felker Street Apartments" Application No. TBD
 APN 008-181-23
 150 Felker Street, Santa Cruz, CA 95060
- b. Attn:
- c. Project is not phased
- d. The project proposes to construct 1 new residential apartment building. There are 2 access points off of Felker Street and a parking garage on the ground level.

II. Project Site Assessment Summary

- a. The site is located south of Highway 1 and approximately 550 feet west of Ocean Street Exit.
- b. Total Project Site Area = 17,436 S.F.
- c. Watershed management zone = 1
- d. Design storm intensity = 2.1 inches
- e. Geology and soil types.

180-Watsonville loam, thick surface, 15 to 30 percent slope

s

Map Unit Setting

National map unit symbol: h9g8 Elevation: 20 to 1,200 feet

Mean annual precipitation: 28 inches Mean annual air temperature: 57 degrees F

Frost-free period: 245 to 275 days

Farmland classification: Not prime farmland

Map Unit Composition

Watsonville and similar soils: 85 percent

Minor components: 12 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Watsonville

Setting

Landform: Marine terraces

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium

Typical profile

H1 - 0 to 18 inches: loam H2 - 18 to 39 inches: clay

H3 - 39 to 63 inches: sandy day loam

Properties and qualities

Slope: 15 to 30 percent

Depth to restrictive feature: More than 80 inches Drainage class: Somewhat poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Very low

to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water supply, 0 to 60 inches: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: D

Ecological site: R014XD089CA - CLAYPAN

f. Hydrologic Considerations: The nearest hydrological resources to the site is San Lorenzo River approximately 500 feet west of the site;

Depth to bedrock exceeds 80 inches, and depth to seasonal high-water table is approximately 60 inches per the project's soils report.

- g. The existing site is developed (impervious) with a commercial building that will be removed. Existing trees are on the site that will need to be protected during construction.
- h. The site currently drains via sheet flow into the public storm drain system comprised of curb and gutter along Felker Street. The adjacent gutter flowlines are a minimum of 6inches below the perimeter concrete walk, and the site slopes generally up from the back of curb, removing any possibility of runon from the public Right-of-Way. At the back of the property there is a small pervious area drains onto the property.

No soil or groundwater contamination has been documented at the site. Structures on the site are limited to the existing buildings, curbs, fences, and asphalt parking area with associated concrete driveways. No public utilities cross the site, underground utilities are located within Felker Street, and electrical power is provided by overhead drop.

The site is zoned RM, Multiple Residence Medium-Rise, see City Zoning Map, provided as Attachment D. There are no known covenants associated with this site.

i. Site constraints consist of very poor infiltrating soils (Refer to Ksat value noted above in Section II.e. and letter from Project Geotechnical Engineer in Attachment H), limited on grading around existing trees to remain and there is no public storm drain system to tie into along the frontage of the property.

III. <u>Project Storm Water Performance Criteria and Drainage Management</u>

- a. Development Area and BMP Requirement Tier
 - i. The site encompasses 12,200 square feet (sf) of new and/or replaced impervious area, and is a Tier 2 multi-family project.
 - ii. Proposed Development Area and Impervious Area:

Pre-project impervious surface area: 12,416 sf
Post-project impervious surface area: 12,200 sf
Amount of impervious surface area that will be replaced: 12,200 sf
Amount of new impervious surface area that will be created: 0 sf
Reduced Impervious Area Credit: 216 sf
New and Replaced Impervious Area: 12,200 sf
Net Impervious Area: 11,984 sf

The site is not located within the Urban Sustainability Area (USA), per the City of Santa Cruz USA Map; included as Attachment E. The site is surrounded by Major Roads and is within the Coastal Zone, as shown within the USA Map.

b. Nine (9) Drainage Management Areas (DMAs) have been delineated for new construction on the site. Flow-through Planters are proposed for treating the new impervious area associated with the building. Due to very poor infiltrating soils, infiltration is not recommended for this site. In DMA H and I, pervious pavers have been proposed to provide an aesthetically appealing vehicular entrance and also reduce the overall replaced and/or created impervious area.

Self-Treating Area F and H have been designed to be in compliance with Chapter 6B of the City of Santa Cruz Stormwater Best Management Practices (BMP) manual and are shown on sheet C3.2 Stormwater, see Attachment A.

DMAs E, I and G are self-retaining areas to provide opportunity for runoff to infiltrate prior to leaving the site. These DMAs have designated depressed areas that allow ponding (approximately an inch and a half, due to poor site infiltration) with amended soil.

IV. Site Design and SCMs

- a. Due to the new and/or replaced impervious area of 12,200 square feet proposed, this project falls within the Tier 2 Post-Construction BMP Requirements.
 - i. Tier 1 Site Design and Runoff Reduction elements intended to control runoff from the site consist of the following:
 - 1. Disconnected downspouts that drain to landscape areas as detailed in Chapter 6B of the BMP manual.
 - 2. Disperse driveway runoff to landscape areas
 - 3. Implementation of pervious pavement

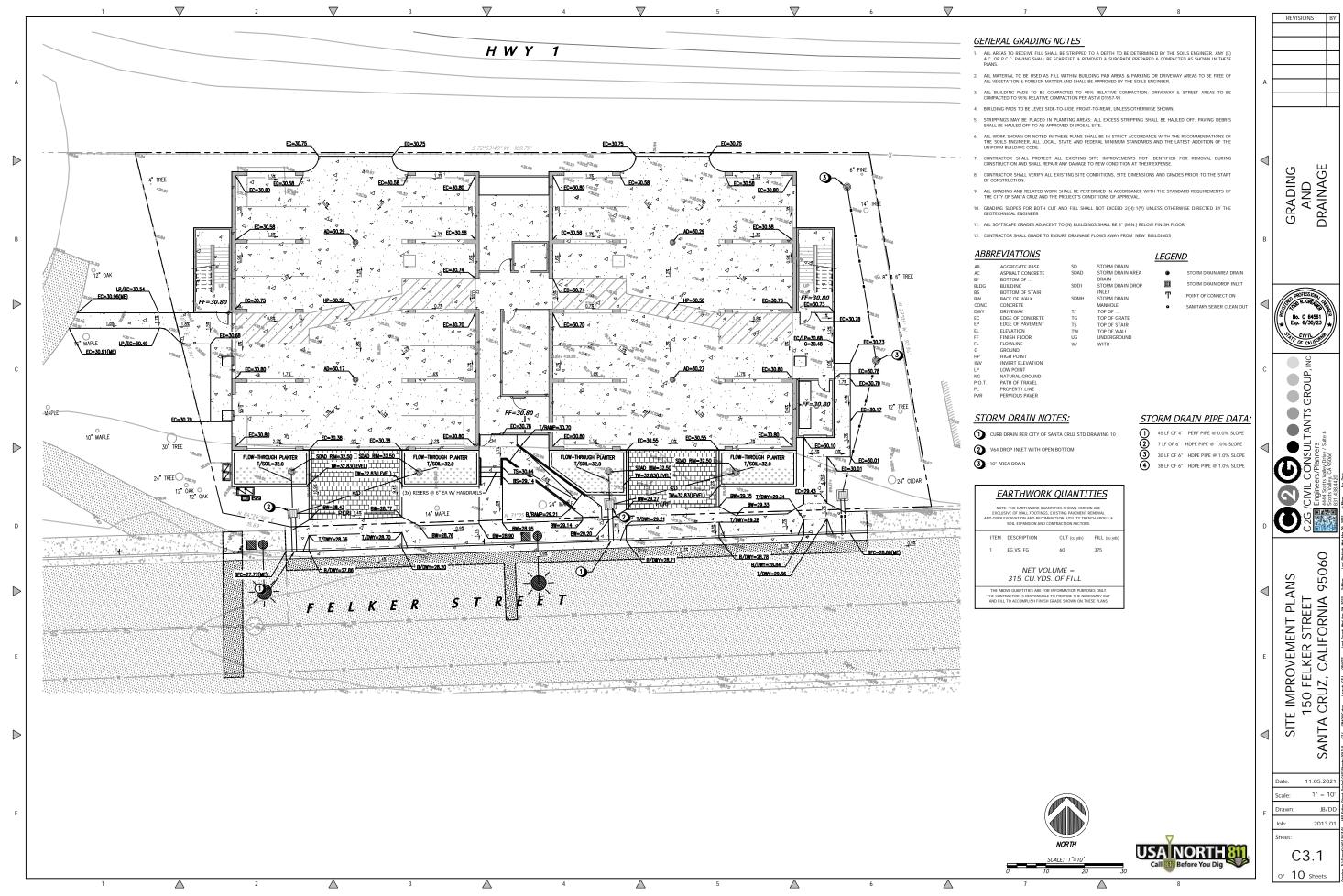
- ii. Tier 2 Water Quality Treatment elements intended to treat stormwater from the site consist of the following:
 - 1. Implementation of raised Flow-through Planters to treat 85-percentile storm.

V. BMP Operation and Maintenance Plan

- a. Structural Storm Water Control Measures requiring maintenance are shown on sheet C3.2, provided in Attachment A, consisting of flow-through planters and pervious pavement.
- b. O&M procedures for the SCMs consist of monthly inspection and removal of trash or other deleterious materials; annual inspection and replacement of any removed soils or vegetation, replanting as required, and repair of any structural damage. O&M procedures for structural stormwater control measures consist of monthly inspection and removal of trash or other deleterious materials, replacement of any removed or damaged pavers. Annual inspections shall take place in September, prior to start of the rainy season. See Attachment F for specific requirements and maintenance checklist.
- c. Maintenance will be performed by the property owner, and will include both monthly and annual inspections, maintenance, and repair as needed of the SCMs.
- d. Signed Maintenance Agreement included as Attachment G.

Attachment A

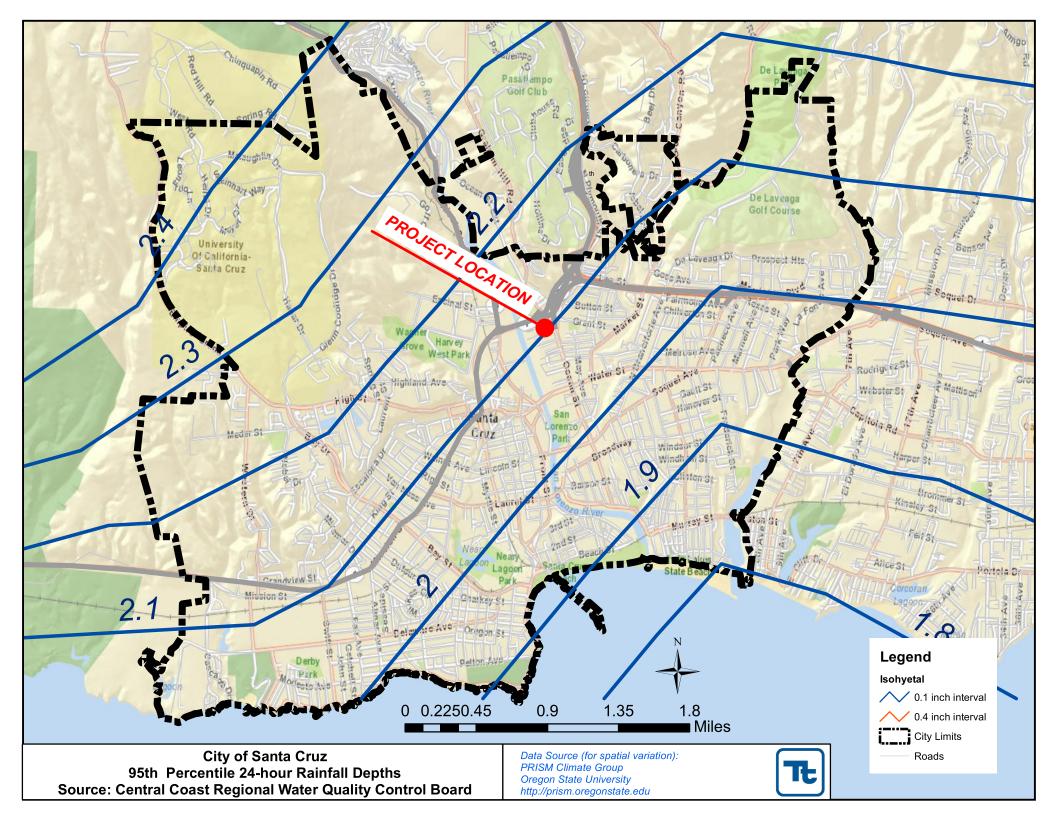
-C3.1 Grading Plan -C3.2 Stormwater Management Plan





Attachment B

95th Percentile 24-hour Rainfall Depths



Attachment C

Storm water and Low-Impact Development BMP Requirement Worksheet

Central Coast SCM Sizing Calculator

APPENDIX A STORM WATER AND LOW-IMPACT DEVELOPMENT BMP REQUIREMENT WORKSHEET

How to Use This Worksheet

The City's Storm Water BMP requirements are based on project type, proposed impervious area, and location within the watershed. This worksheet was developed to help permit applicants determine and meet storm water BMP requirements applicable to a proposed development or redevelopment

- 1 Download this fillable form online at www.cityofsantacruz.com/LID
- 2 Fill out the Worksheet to determine what stormwater BMP requirements apply to a proposed project.
- 3 Attach Worksheet and additional documentation required as listed in the City Storm Water Best Management Practices for Private and Public Development Projects to plans for review by the Department of Public Works
- 4 Please contact the Public Works Environmental Project Analyst at 420-5160 if you have any questions on completing the worksheet.

Project Address:	1	.50 Felker Street	Bldg Permit #:		
A - Project Type Check project type the	at applies:				
☐ Single Far	mily Home	☑ Multi-family, Comme	ercial, Industrial, Public facili	ties	
Check development to	ype that applies	:			
☐ New Deve	elopment	☑ Redevelopment / Re	model		
B - Proposed Devel	opment Area a	and Impervious Area:			
Pre-project imp	ervious surface	area:		12416	sq ft
Post-project imp	pervious surface	area:		12200	_sq ft
Amount of impe	ervious surface a	rea that will be replaced :		12200	sq ft
Amount of new	impervious surf	ace area that will be created:		0	sq ft
Reduced Imperv	vious Area Credi	t:		216	sq ft
		New and Repla	aced Impervious Area =	12200	sq ft
			Net Impervious Area =	11984	sq ft
(Net Impervious Are	a = Impervious Δre	a created + Impervious Area replace	ed - Reduced Impervious Area Cred	4i+\	

C - Post-Construction BMP Tier requirement:

Check Project Type and Impervious Area (from calculations above) that applies.

BMP requirements are cumulative (e.g. a project subject to BMP Tier 3 is also subject to Tiers 1 and 2), permit review fees are not cumulative.

_	quiring a Stormwater Control Plan will need to involve a civil engineer.			
SIN	SINGLE-FAMILY HOMES		Permit Review	Stormwater Control
3114	GEE-FAMILE HOWES	BMP TIER	Fee	Plan required?
	Single-family Home with Net Impervious Area < 15,000 sf, please consult Chapter 6A, BMPs for Single-Family Homes on Small Lots	N/A	\$0	No
	Net Impervious Area ≥ 15,000 sf; New and replaced impervious area < 22,500 sf	3	\$330	Yes
	New and replaced impervious area ≥ 22,500 sf	4	\$550	Yes
2 41 1	TTI FARMIN COMMATDOIAL INDUSTRIAL BURDUS FASULTIFS	D140 TIED	Permit Review	Stormwater Contro
IVIU	LTI-FAMILY, COMMERCIAL, INDUSTRIAL, PUBLIC FACILITIES	BMP TIER	_	
			Fee	Plan Required?
	New and Replaced Impervious Area ≥ 2,500 sf; Net Impervious Area < 5,000 sf	1	\$0	Plan Required?
□		1 2		•
	Impervious Area < 5,000 sf Net Impervious Area ≥ 5,000 sf; New and Replaced	_	\$0	No

If the proposed project is only subject to BMP Tiers 1 or 2, skip to Step F.

D - Watershed Management Zones - For projects subject to Tiers 3 Post-Construction BMP requirements only.

Watershed Management Zones are viewable online on the City of Santa Cruz GIS website at: http://gis.cityofsantacruz.com/gis/index.html

Watershed Management Zones and associated Tier 3 (Runoff Retention) Post-Construction BMP requirements

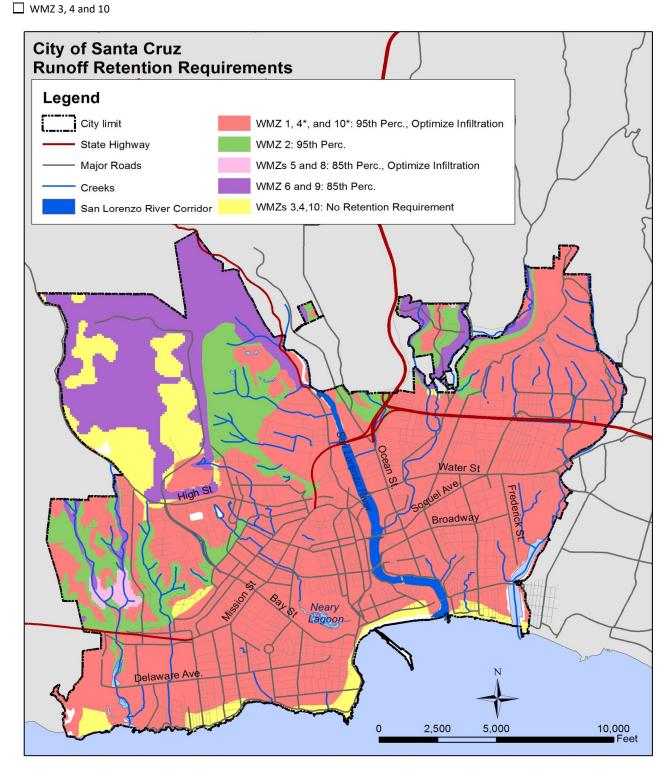
If Tier 3 BMP requirements are applicable to the project, check the watershed management zone area where the project is located.

WMZ 1, and portions of 4, and 10 overlying groundwater basin

WMZ 2

WMZ 5 and 8

WMZ 6 and 9



-	Circumstances - For projects subject to Tiers 3 and 4 Post-Construction BMI ecial circumstance applies to the project	P requiremen	ts only.
	Highly Altered Channel and Intermediate Flow Control Facility		Urban Sustainability Area
	onal Stormwater BMP Requirements for Multi-family, Commercial an ditional BMP requirements apply to the project	d Industrial	projects
a) Sta	te Construction Activities Storm Water General Permit		
	Construction activity resulting in land disturbance of one acre or more, or p	art of a larger	common plan of development
b) Ad	ditional Source Control BMP requirements for specific facilities		
	Commercial or industrial facility		Parking areas
	Material Storage Areas		Pools, spas and other water features
	Vehicle fueling, maintenance and wash areas	✓	Trash Storage Areas
	Equipment and accessory wash areas		Restaurants and food processing or manufacturing facilities
	Interior and parking garage floor drains		Miscellaneous drain or wash water
☐ Cons	licable boxes and provide short description of measure and location serve natural areas, riparian areas and wetlands escription:		
	centrate improvements on the least-sensitive portions of the site and minimi escription:	ize grading	
	ct roof runoff into cisterns or rain barrels escription:		
	ct roof downspouts to landscaped areas or rain gardens escription: downspouts are disconnected and drain across landscaped areas	prior to enter	ing storm drain system
	pervious pavement (pervious concrete or asphalt, turf block, crushed aggreg escription: Access drives are proposed to be pervious pavers	ate, etc.)	
☐ Disp	erse runoff from paved areas to adjacent pervious areas		

Central Coast Region Stormwater Control Measure Sizing Calculator

1. Project Information

Project name:	Felker Street Apartments		
Project location:	150 Felker Street, Santa	a Cruz	
Tier 2/Tier 3:		Tier 2 - Treatment	
Design rainfall depth (in)	:	2.0	
Total project area (ft2)	17436		
Total new impervious a	0		
Total replaced impervio	0		
Total replaced impervio	12200		
Total pervious/landscap	5236		

2. DMA Characterization						
Name	DMA Type	Area (ft2)	Surface Type	New, Replaced?	Connection	
A.1	Drains to SCM	2570	Roof	Replaced	SCM 1	
A.2	Drains to SCM	263	Landscape	Replaced	SCM 1	
B.1	Drains to SCM	3161	Roof	Replaced	SCM 2	
B.2	Drains to SCM	160	Landscape	Replaced	SCM 2	
C.1	Drains to SCM	2985	Roof	Replaced	SCM 3	
C.2	Drains to SCM	320	Landscape	Replaced	SCM 3	
D.1	Drains to SCM	2833	Roof	Replaced	SCM 4	
D.2	Drains to SCM	331	Landscape	Replaced	SCM 4	
E.1	Self-Retaining	312				
E.2	Self-Retaining	1762				
F.1	Self-Treating	552				
G.1	Self-Retaining	179				
G.2	Self-Retaining	235				
H.1	Self-Treating	537				
H.2	Self-Treating	414				
I.1	Self-Retaining	160				
1.2	Self-Retaining	662				

Version: 2/26/2014

DMA Summary Area				
Total project impervious area (ft2):	11549			
New impervious area (ft2):	0			
Replaced impervious within a USA (ft2):	0			
Replaced impervious not in a USA (ft2):	11549			
Total pervious/landscape area (ft2):	1074			

3. SCM Characterization						
Name	SCM Type	Safety Factor	SCM Soil Type	Infilt. Rate (in/hr)	Area (ft2)	
SCM 1	Bioretention	1	Site-Specific	0.03	150	
SCM 2	Bioretention	1	Site-Specific	0.03	150	
SCM 3	Bioretention	1	Site-Specific	0.03	158	
SCM 4	Bioretention	1	Site-Specific	0.03	150	

4. Run SBUH Model

5. SCM Minimum Sizing Requirements

SCM Name	Mininum SCM Area (ft2)	
SCM 1	104	
SCM 2	127	
SCM 3	121	
SCM 4	115	

6. Self-Retaining	Area Sizing Checks
or odin rectaining	All ca bizing chicks

Self-Retaining DMA	Self-Retaining DMA	Tributary DMA	Tributary DMA	Tributary / SRA
Name	Area (ft2)	Name	Area (ft2)	Area Ratio
E.1	312		0	0.00
E.2	1762		0	0.00
G.1	179		0	0.00
G.2	235		0	0.00
l.1	160		0	0.00
1.2	662		0	0.00

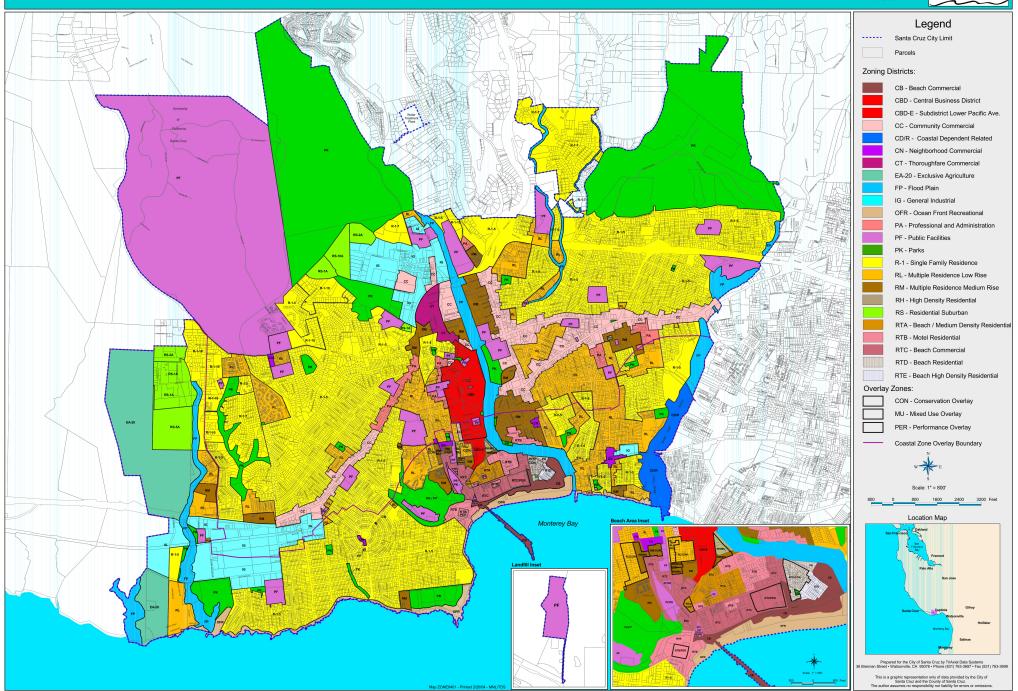
Attachment D

City of Santa Cruz Zoning Map

95th Percentile 24-hour Rainfall Depths Map

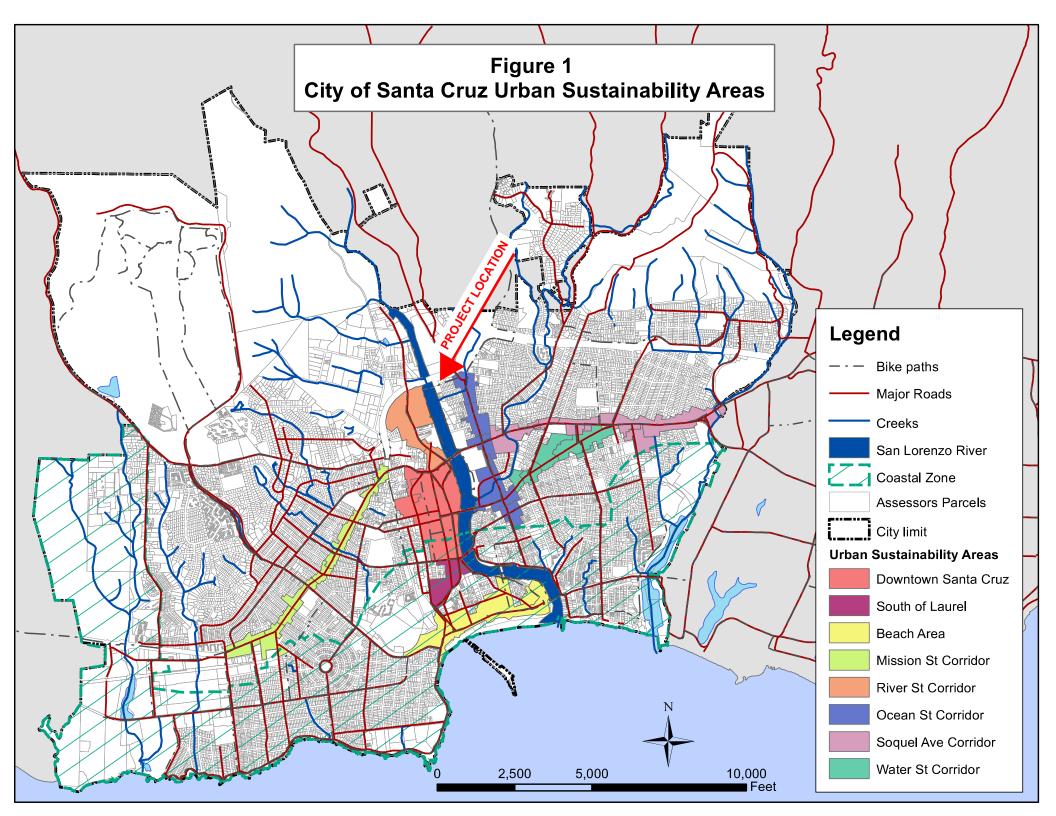
City of Santa Cruz Zoning Districts Map





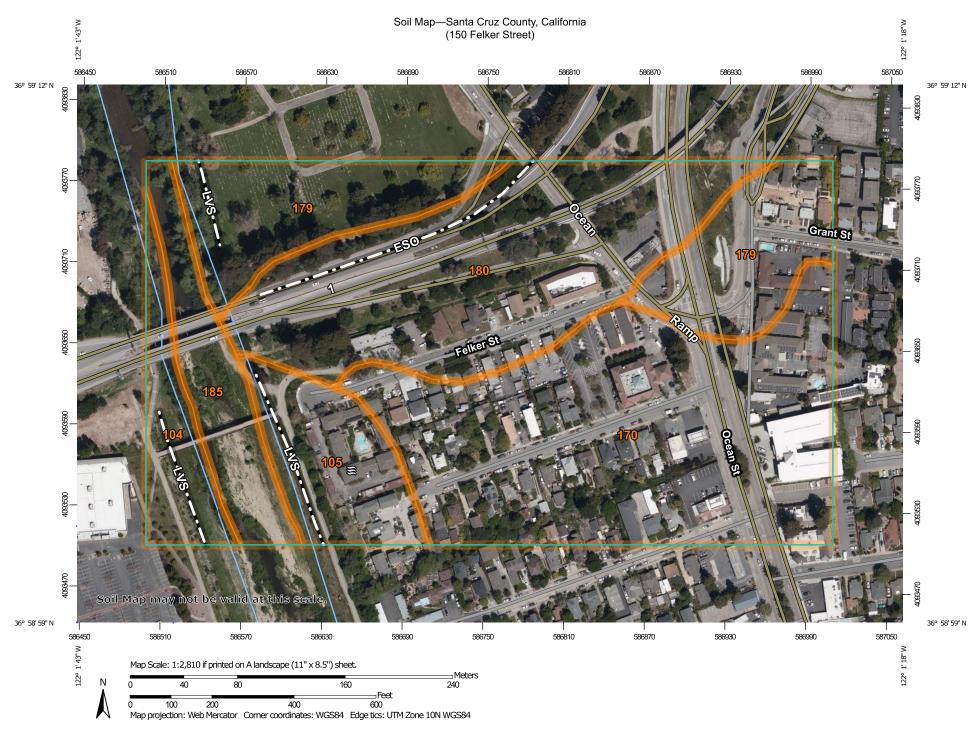
Attachment E

City of Santa Cruz Urban Sustainability Area Map



Attachment F

Site Soils Data -Soils Map



Santa Cruz County, California

180—Watsonville loam, thick surface, 15 to 30 percent slope s

Map Unit Setting

National map unit symbol: h9g8 Elevation: 20 to 1,200 feet

Mean annual precipitation: 28 inches Mean annual air temperature: 57 degrees F

Frost-free period: 245 to 275 days

Farmland classification: Not prime farmland

Map Unit Composition

Watsonville and similar soils: 85 percent

Minor components: 12 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Watsonville

Setting

Landform: Marine terraces

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium

Typical profile

H1 - 0 to 18 inches: loam H2 - 18 to 39 inches: clay

H3 - 39 to 63 inches: sandy clay loam

Properties and qualities

Slope: 15 to 30 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Somewhat poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Very low

to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Available water supply, 0 to 60 inches: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: D

Ecological site: R014XD089CA - CLAYPAN

Hydric soil rating: Yes

Minor Components

Tierra, sandy loam

Percent of map unit: 4 percent Hydric soil rating: No

Watsonville, loam

Percent of map unit: 3 percent Landform: Marine terraces

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Tread

Hydric soil rating: Yes

Bonnydoon, loam

Percent of map unit: 2 percent

Hydric soil rating: No

Los osos, loam

Percent of map unit: 1 percent

Hydric soil rating: No

Elkhorn

Percent of map unit: 1 percent

Hydric soil rating: No

Fagan, loam

Percent of map unit: 1 percent

Hydric soil rating: No

Data Source Information

Soil Survey Area: Santa Cruz County, California Survey Area Data: Version 15, Sep 9, 2021

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

gravel Pit

... Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

→ Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

-

Spoil Area

Stony Spot

Yery Stony Spot

Wet Spot

∆ Other

Special Line Features

Water Features

Streams and Canals

Transportation

+++ Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aeri

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Santa Cruz County, California Survey Area Data: Version 15, Sep 9, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 13, 2020—Apr 24, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
104	Baywood loamy sand, 0 to 2 percent slopes	1.9	5.4%
105	Baywood loamy sand, 2 to 15 percent slopes	2.9	8.0%
170	Soquel loam, 0 to 2 percent slopes	12.7	35.1%
179	Watsonville loam, thick surface, 2 to 15 percent slopes	6.5	17.9%
180	Watsonville loam, thick surface, 15 to 30 percent slope s	9.5	26.3%
185	Water	2.6	7.3%
Totals for Area of Interest		36.0	100.0%

Attachment G

Operations and Maintenance Agreement

Attachment G

Maintenance Agreement Regarding Maintenance of Structural or Treatment Control Best Management Practices (BMPs)

for: Address 150 Fell	ker Street	APN# <u>008-181-23</u>			
I,		, being the owner of the real property, APN <u>008-181-23</u> ,			
which is located at maintain any and all structu	150 Felker Street ural or treatment control Best Mar	Santa Cr uz, California, consent and agree to inspect and nagement Practices (BMPs) a minimum of once per year prior ment control BMPs on the subject property include(s):			
Pervious Pavers and Flow-T	hrough Planters				
Department of Public W include a log of inspection a should also indicate any significant control of the should also indicate any significant control of the should also indicate any significant control of the should be shoul	Vorks prior to December 1 of and maintenance dates for the past nificant observations or repairs majority of English Analyst, Department of F	each year. Proof of inspection and maintenance shall a year, and receipts if conducted by a hired service. The log ade. The proof of inspection and maintenance should be public Works, City of Santa Cruz, 809 Center Street, Room			
In the event that the property is sold, transferred, or leased, the obligations hereby imposed on the property owner shall assumed by subsequent property owners and lessees. To this end, property owner, in any deed transferring an ownership interest in the property or in any lease agreement for the property, shall include a term by which the subsequent property owner or lessee acknowledges his or her understanding of the obligations imposed by this agreement and expressly agree to accept and assume responsibility for complying with all said obligations imposed by this agreement.					
•	•	property owner or lessee regarding proper BMP inspection all accompany the first deed transfer. This information shall			
(2) a map of the pro	any and all storm water structural operty indicating the BMP location how inspections and necessary m	ns; and			
The transfer of this informa	tion shall also be required with an	y subsequent sale of the property.			
		greement may result in enforcement actions including pal Code, Chapter 16.19.190 Administrative Remedies.			
I have read the above agreen	nent and understand it.				
Owner Name:		Signature:			
Date:					
Owner Address:					

Email:

Phone:

Attachment H

Letter from project Geotechnical Engineer



CMAG ENGINEERING, INC.

P.O. BOX 640, APTOS, CALIFORNIA 95001 PHONE: 831.475.1411 WWW.CMAGENGINEERING.COM

> May 13, 2022 Project No. 21-116-SC

AEST Realty 4100 Moorpark Avenue, Suite 205 San Jose, California 95117

ATTN: Arthur Lin

SUBJECT:

ON-SITE INFILTRATION

Proposed Apartment Building

150 Felker Street, Santa Cruz, Santa Cruz County, California

APN 008-181-23

REFERENCES:

See the Attached List of References.

Dear Mr. Lin:

Per the request of your Architect, regarding the referenced review comments letter for the project from the City of Santa Cruz, we offer our opinion, from the geotechnical aspect, as to the feasibility of using shallow SCM's at the subject site.

Based on the referenced Geotechnical Investigation report and our experience in the area, it is our opinion that the effectiveness of any proposed shallow SCM's at the subject site which require infiltration into the near-surface soils will be low for the following reasons:

- The near-surface soils are consistent with the "Watsonville Loam, 15-30 percent slope" classification depicted in the Soil Survey of Santa Cruz County, California, 1980. This classification is depicted as having a very low permeability (<0.06 in/hr from 26 to 41 inches below grade). Our investigation encountered fine grained soils consisting of sandy silt to sandy lean clay within the upper 10 feet.
- Based on the poor engineering qualities of the near-surface soils we have recommended a mechanically stabilized engineered fill pad beneath the proposed apartment building which encompasses most of the subject property. The recommended fill pad, which extends 5 feet beyond the proposed structure, will consist of imported material compacted to a minimum of 90 percent relative compaction. The engineered fil pad is considered to be relatively impermeable.
- Based on our experience in the area, the groundwater elevation can be at or near the ground surface during the rainy season. Proposed shallow SCM's will have little

effectiveness during high groundwater conditions.

It is a pleasure being associated with you on this project. If you have any questions, or if we may be of further assistance please do not hesitate to contact our office.

Sincerely,

CMAG ENGINEERING, INC.



Shannon Chome', PE Senior Engineer C 68398 Expires 9/30/23



Adrian L.Garner, PE, GE Principal Engineer C 66087, GE 2814 Expires 6/30/22

Distribution:

Client (Electronic Copy)

Scott Brereton (Electronic Copy)
Dave Dauphin (Electronic Copy)

May 13, 2022 Project No. 21-116-SC Page 3

REFERENCES

- City of Santa Cruz (April 18, 2022). RE: 150 Felker St. CP21-0137, APN 008-181-23.
- CMAG Engineering, Inc. (September 13, 2021). Geotechnical Investigation, Proposed Apartment Building, 150 Felker Street, Santa Cruz, Santa Cruz County, California, APN 008-181-23. Project No. 21-116-SC.
- C2G Civil Consultants Group (November 5, 2021). Site Improvement Plans, 150 Felker Street, Santa Cruz, California, 95060. Job: 2013.01. Sheets C0.1, C1.1, C2.1, C3.1, C3.2, C4.1, C4.2, C5.1 C5.3.
- William C. Kempf Architects (March 10, 2022). New Apartment Building for 150 Felker Street, Santa Cruz, California, APN 008-181-23. Client Name: Arthur Lin. Project Name: Felker Street. Sheets A-1.1, A-1.2, A-2.1, A-3.1 A-3.6, A-4.1, A-5.1, A-5.2, A-6.1, A-6.2.