

BENCHMARK:
STREET MONUMENT LOCATED 256± EAST OF THE INTERSECTION OF
ARBUTUS COURT AND FAIRVIEW AVENUE, CITY OF HAYWARD
BENCHMARK B.M. J-21
ELEVATION: 1018.966 FEET

ATTACHMENT IV

VESTING TENTATIVE MAP

TRACT 8353 - CAVALLO HIGHLANDS

CITY OF HAYWARD, ALAMEDA COUNTY, CALIFORNIA

LEGEND		
PROPOSED	DESCRIPTION	EXISTING
---	TRACT BOUNDARY	
---	LOT LINE	
---	RIGHT OF WAY	
---	CENTER LINE	
---	MATCH LINE	
---	RETAINING WALL	
---	EASEMENT LINE	
12" SD	STORM DRAIN	EX 12" SD
8" SS	SANITARY SEWER	EX 12" SS
12" W	POTABLE WATER	EX 12" W
8" WR	RECYCLED WATER	EX 8" WR
---	CURB & GUTTER	EX FC
---	SAWCUT	
---	SIDEWALK	
---	EARTH OR GRASS SWALE	
---	VALLEY GUTTER	
■	STORM WATER INLET	□
●	DROP INLET	□
●	AREA DRAIN	
●	BUBBLE UP	
●	MANHOLE	○
●	SANITARY SEWER CLEAN OUT	○
●	SANITARY SEWER LATERAL	○
●	FIRE HYDRANT	○
●	BLOW OFF	○
●	WATER SERVICE WITH METER BOX	○
●	BACKFLOW DEVICE	○
●	WATER VALVE	○
●	AIR RELEASE VALVE	○
●	POST INDICATOR VALVE	○
●	FIRE DEPARTMENT CONNECTION	○
●	SINGLE ARM STREET LIGHT	○
●	DOUBLE ARM STREET LIGHT	○
●	POST TOP LIGHT	○
●	PEDESTRIAN LIGHT	○
●	MONUMENT	○
●	TRAFFIC SIGN	○
●	STREET NAME SIGN	○
●	FENCE	○
●	BARRICADE	○
●	CURB RAMP	○
●	CONTOUR ELEVATIONS	○
●	SPOT ELEVATION	○
●	NEW ASPHALT PAVEMENT	○
●	IRRIGATION SLEEVE	○

ABBREVIATIONS

AB	AGGREGATE BASE	PAE	PUBLIC ACCESS EASEMENT
AC	ASPHALT CONCRETE	PAV	PAVEMENT
AD	AREA DRAIN	PCC	POINT OF COMPOUND CURVATURE
ARV	AIR RELEASE VALVE	PIV	POST INDICATOR VALVE
BC	BEGINNING OF CURVE	PL	PROPERTY LINE
BD	BLOWOFF	PMAE	PRIVATE MAINTENANCE ACCESS EASEMENT
BW	BOTTOM OF WALL	PPAE	PRIVATE PEDESTRIAN ACCESS EASEMENT
CL	CENTER LINE	PRC	POINT OF REVERSE CURVE
COMM	COMMUNICATION	PRUE	PRIVATE SERVICES AND UTILITY EASEMENT
DI	DROP INLET	PSDE	PRIVATE STORM DRAIN EASEMENT
DIP	DUCTILE IRON PIPE	PSE	PUBLIC SERVICE EASEMENT
DW	DOMESTIC WATER	PUE	PUBLIC UTILITY EASEMENT
EAE	EMERGENCY ACCESS EASEMENT	PVAE	PRIVATE VEHICLE ACCESS EASEMENT
EC	END OF CURVE	PVC	POLYVINYL CHLORIDE PIPE
EVAE	EMERGENCY VEHICLE ACCESS EASEMENT	PWLE	PRIVATE WATER LINE EASEMENT
EX	EXISTING	RCP	REINFORCED CONCRETE PIPE
FC	FACE OF CURB	RET	CURB RETURN
FG	FINISHED GRADE	RW	RIGHT OF WAY
FH	FIRE HYDRANT	SD	STORM DRAIN
FL	FLOW LINE	SS	SANITARY SEWER
FS	FIRE SERVICE	SNS	STREET NAME SIGN
FW	FIRE WATER	SL	STREET LIGHT
GE	GARAGE ELEVATION	STA	STATION
GB	GRADE BREAK	STD	STANDARD
HDPE	HIGH-DENSITY POLYETHYLENE PIPE	SWI	STORM WATER INLET
HP	HIGH POINT	SWK	SIDEWALK
HM	HYDROMODIFICATION	SLE	SANITARY SEWER LINE EASEMENT
INV	INVERT ELEVATION	TC	TOP OF CURB
LF	LINEAR FOOT	TFC	TOP OF FLUSH CURB
LP	LOW POINT	TG	TOP OF GRATE
MAX	MAXIMUM	TMC	TOP OF MOUNTABLE CURB
ME	MAINTENANCE EASEMENT	TRW	TOP OF RETAINING WALL
MH	MANHOLE	TW	TOP OF WALL
MIN	MINIMUM	TYP	TYPICAL
P	PAD ELEVATION	W(R)	RECYCLED WATER
		W	WATER LINE
		WLE	WATER LINE EASEMENT



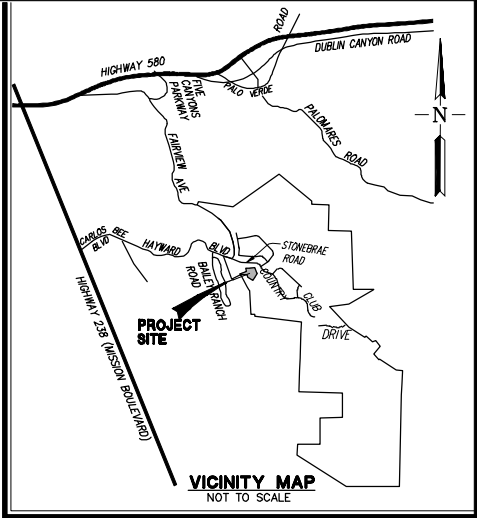
LOCATION MAP
NOT TO SCALE

ALTERNATIVE STREET NAMES

1. CALLE TRAMONTO
2. CALLE PENDIO

SHEET INDEX

SHEET NO.	DESCRIPTION
C1.0	COVER SHEET
C2.0	EXISTING CONDITIONS PLAN
C2.1	SLOPE CLASSIFICATION MAP
C3.0	PROPOSED LOTTING PLAN
C4.0	PRELIMINARY GRADING AND DRAINAGE PLAN
C5.0	PRELIMINARY UTILITY PLAN
C6.0	PRELIMINARY STORMWATER TREATMENT PLAN



VICINITY MAP
NOT TO SCALE

GENERAL NOTES

1. OWNER: CARRIE AITKEN
C/O ERIK HAYDEN
HAYDEN LAND COMPANY, LLC
15732 LOS GATOS BLVD, #101
LOS GATOS, CA 95032
(408) 348-5679
2. APPLICANT: CARRIE AITKEN
C/O ERIK HAYDEN
HAYDEN LAND COMPANY, LLC
15732 LOS GATOS BLVD, #101
LOS GATOS, CA 95032
(408) 348-5679
3. CIVIL ENGINEER: RUGGERI-JENSEN-AZAR
4690 CHABOT DRIVE, SUITE 200
PLEASANTON, CA 94588
(925) 227-9100
CONTACT: JOSEPH AZAR
R.C.E. # 44628
4. GEOTECHNICAL ENGINEER: ENGED INCORPORATED
2010 CROW CANYON PLACE, SUITE 250
SAN RAMON, CA 94583
(925) 866-9000
CONTACT: KELSEY GERHART
5. LEGAL DESCRIPTION: THE LAND REFERRED TO HEREIN IS SITUATED IN THE CITY OF HAYWARD, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHEASTERN CORNER OF THE RANCHO SAN LORENZO, THENCE ALONG THE EASTERN BOUNDARY LINE THEREOF TO THE TRUE POINT OF BEGINNING, THENCE ALONG THE PARCEL OF LAND DESCRIBED IN THE DEED BY A.C. SILVA TO ARTHUR M. CARDEN AND AGNES D. CARDEN, DATED APRIL 30, 1940, RECORDED OCTOBER 14, 1940, AND TRACT OF LAND DESCRIBED IN THE DEED, DATED JUNE 21, 1931, RECORDED FEBRUARY 16, 1932, IN BOOK 2728 OF OFFICIAL RECORDS OF ALAMEDA COUNTY, AND JANUARY 27, 1938, RECORDED DECEMBER 1, 1938, IN BOOK 3710 OF OFFICIAL RECORDS OF ALAMEDA COUNTY.
6. ASSESSOR'S PARCEL NUMBER: 085A-6428-002
7. CURRENT USE: RESIDENTIAL
8. PROPOSED USE: RESIDENTIAL
9. EXISTING ZONING: AGRICULTURAL B160A
10. PROPOSED ZONING: SDR (1-4.3 UNITS/ACRE)
11. GROSS SITE AREA: 8.9± ACRES
12. NET AREA: 7.5± ACRES
13. TOTAL NUMBER OF PROPOSED LOTS: 19 LOTS
14. OPEN SPACE: LOT A & B (OWNED AND MAINTAINED BY HOA)
15. PRIVATE STREET: LOT C (OWNED AND MAINTAINED BY HOA)
16. DEVELOPMENT DENSITY: 2.5 DWELLING UNITS/NET ACRES
17. UTILITIES:
 - a. WATER: CITY OF HAYWARD
 - b. SANITARY SEWER: CITY OF HAYWARD
 - c. STORM DRAIN: CITY OF HAYWARD
 - d. FIRE: CITY OF HAYWARD
 - e. GAS AND ELECTRIC: PG&E
 - f. TELEPHONE: AT&T
 - g. CABLE TV: COMCAST
18. THIS PROPERTY LIES WITHIN FLOOD ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN), AS SHOWN IN FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 06001C0294G, DATED AUGUST 3, 2009.
19. ALL EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE CRITERIA AND STANDARDS OF THE CITY OF HAYWARD.

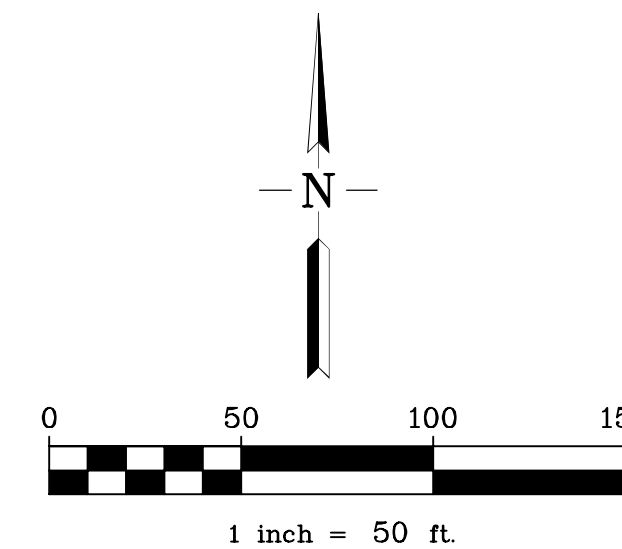


RUGGERI-JENSEN-AZAR
ENGINEERS • PLANNERS • SURVEYORS
4690 CHABOT DRIVE, SUITE 200 PLEASANTON, CA 94588
PHONE: (925) 227-9100 FAX: (925) 227-9300

C1.0

DATE: JANUARY 7, 2019

JOB NO. 111044TM

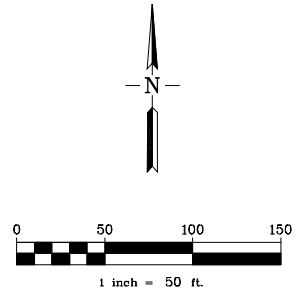


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JOB NO. 111044TM

C2.0

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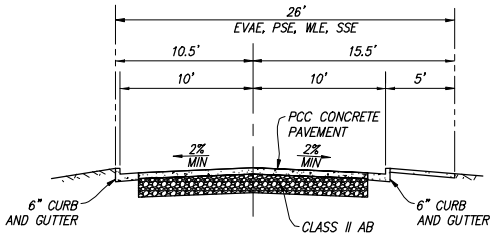


LOT AREA TABLE

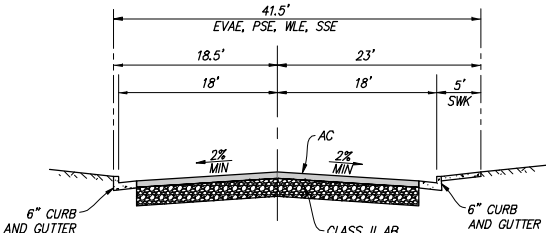
LOT	AREA (SF)	LOT	AREA (SF)
1	19,280	A	56,684
2	13,790	B	42,071
3	11,420	C	63,390
4	11,353	TOTAL	386,900
5	11,353	AVG (LOTS 1-19)	11,829
6	10,804		
7	12,554		
8	9,017		
9	10,913		
10	15,202		
11	11,018		
12	11,377		
13	11,736		
14	12,138		
15	15,534		
16	9,885		
17	10,662		
18	8,804		
19	7,915		

LOT NOTES:

1. LOT C, SHALL BE DESIGNATED AS PRIVATE STREET AREA TO BE MAINTAINED BY HOA.
2. LOTS A & B SHALL BE DESIGNATED AS OPEN SPACE AREA TO BE OWNED AND MAINTAINED BY HOA.
3. LOTS 1-19 SHALL BE DESIGNATED AS RESIDENTIAL LOTS.



VIA DEL CORSO
NOT TO SCALE



CALLE CERRO
NOT TO SCALE

NOTE:

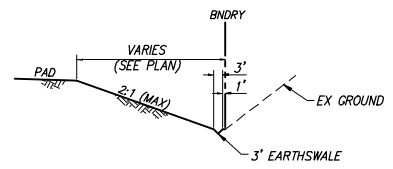
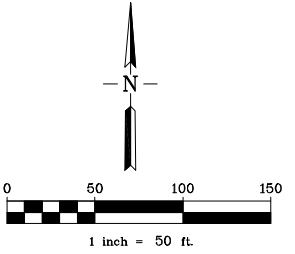
1. INSTALL PCC VALLEY GUTTER AND APRON PER CITY STD SD-110A ALONG GARDEN LANE AT STREET "A" ENTRANCE.

PROPOSED LOTTING PLAN
TRACT 8353 - CAVALLO HIGHLANDS
CITY OF HAYWARD, ALAMEDA COUNTY, CALIFORNIA

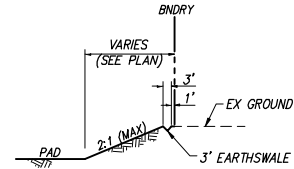
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4690 CHABOT DRIVE, SUITE 200 PLEASANTON, CA 94588
PHONE: (925) 227-9100 FAX: (925) 227-9300

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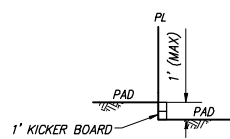
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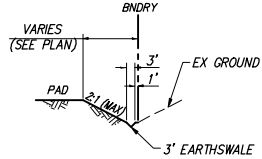
SECTION A-A
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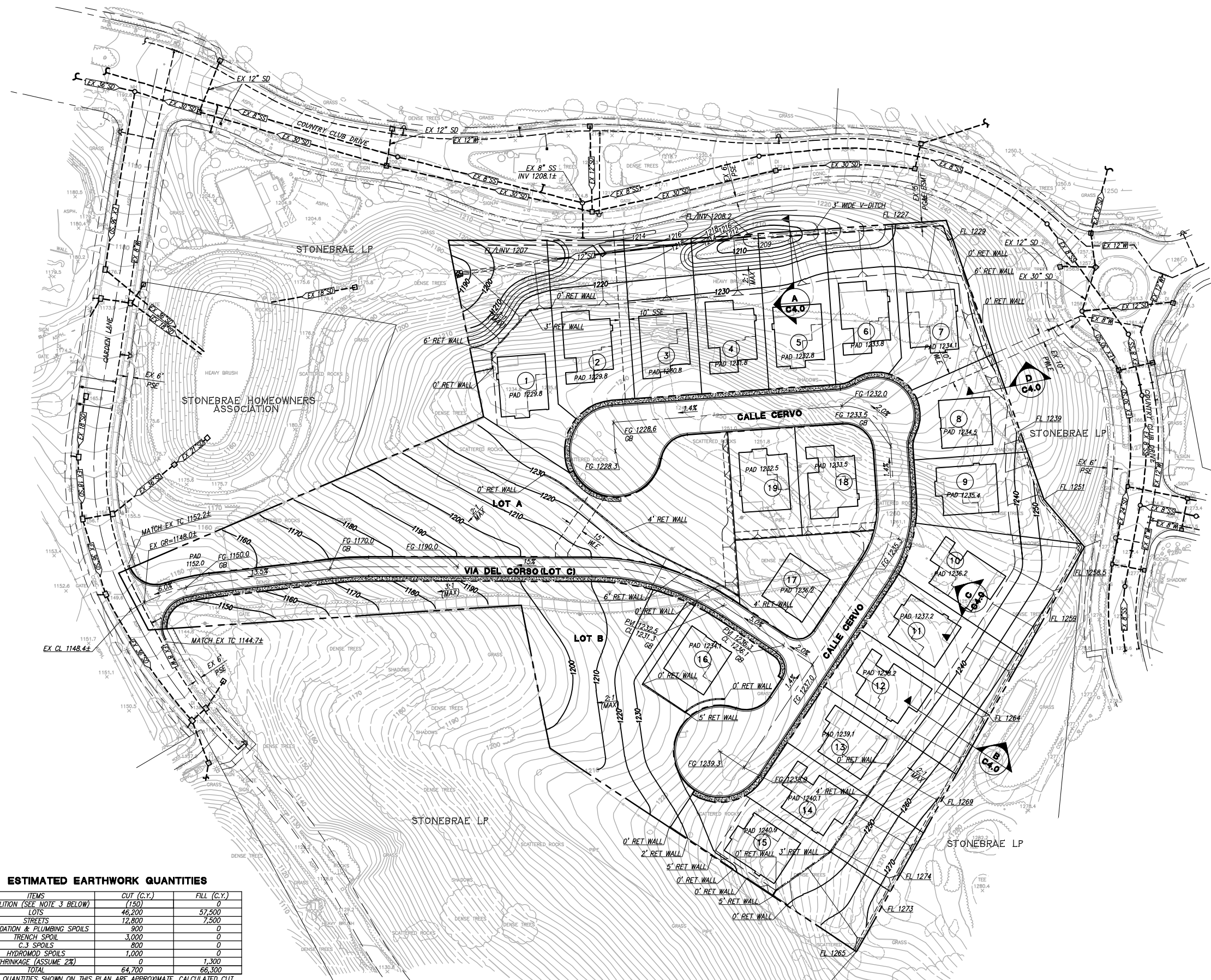
SECTION B-B
NOT TO SCALE



SECTION C-C
NOT TO SCALE



SECTION D-D
NOT TO SCALE



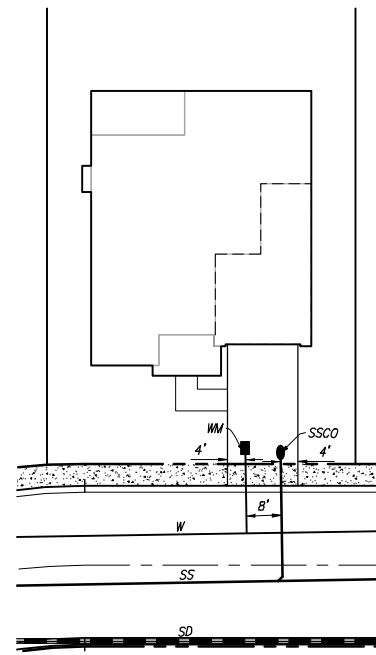
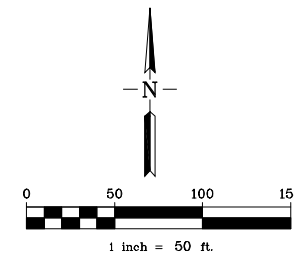
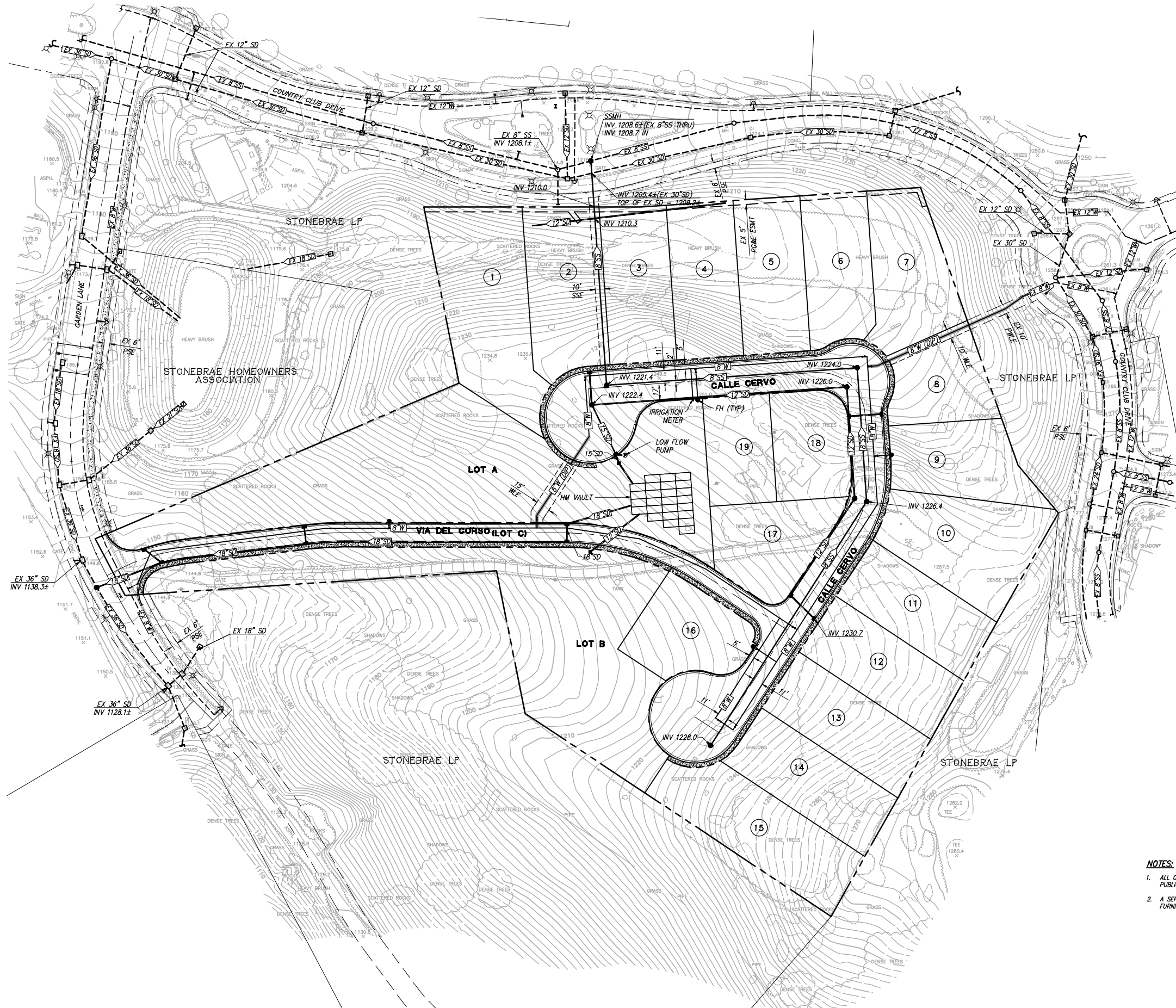
ESTIMATED EARTHWORK QUANTITIES		
ITEMS	CUT (C.Y.)	FILL (C.Y.)
DEMOLITION (SEE NOTE 3 BELOW)	(150)	0
LOTS	46,200	57,500
STREETS	12,800	7,500
FOUNDATION & PLUMBING SPOILS	900	0
TRENCH SPOIL	3,000	0
C-3 SPOILS	800	0
HYDROMOD SPOILS	1,000	0
SHRINKAGE (ASSUME 2%)	0	1,300
TOTAL	64,700	66,300

- ALL QUANTITIES SHOWN ON THIS PLAN ARE APPROXIMATE, CALCULATED CUT AND FILL ARE TO "ROUGH GRADE" AND EXISTING GROUND. THE ACTUAL AMOUNT OF EARTH MOVED IS VARIABLE DEPENDENT ON COMPACTION, CONSOLIDATION, STRIPPING REQUIREMENTS, AND THE CONTRACTOR'S METHOD OF OPERATION.
- THE CONTRACTOR SHALL VERIFY ALL EARTHWORK QUANTITIES BEFORE START OF WORK. THE CONTRACTOR SHALL CONTACT THE CIVIL ENGINEER WITH ANY DISCREPANCIES.
- DEMOLITION MATERIAL TO BE OFFHAULED BY THE CONTRACTOR.
- FOUNDATION AND PLUMBING SPOILS ARE ASSUMED AT 50 CY/BUILDING

PRELIMINARY GRADING AND DRAINAGE PLAN
TRACT 8353 - CAVALLO HIGHLANDS
CITY OF HAYWARD, ALAMEDA COUNTY, CALIFORNIA

RJA
RUGGERI-JENSEN-AZAR
ENGINEERS • PLANNERS • SURVEYORS
4690 CHABOT DRIVE, SUITE 200 PLEASANTON, CA 94588
PHONE: (925) 227-9100 FAX: (925) 227-9300

C4.0



DETAIL 1 - TYPICAL UTILITY LAYOUT
NOT TO SCALE

- NOTES:**
1. ALL ON-SITE SANITARY SEWER & WATER LINES WILL BE PUBLICLY OWNED AND MAINTAINED BY THE CITY OF HAYWARD.
 2. A SEPARATE IRRIGATION METER AND SERVICE SHALL BE FURNISHED FOR COMMON AREA LANDSCAPING.

PRELIMINARY UTILITY PLAN
TRACT 8353 - CAVALLO HIGHLANDS
CITY OF HAYWARD, ALAMEDA COUNTY, CALIFORNIA

RJA
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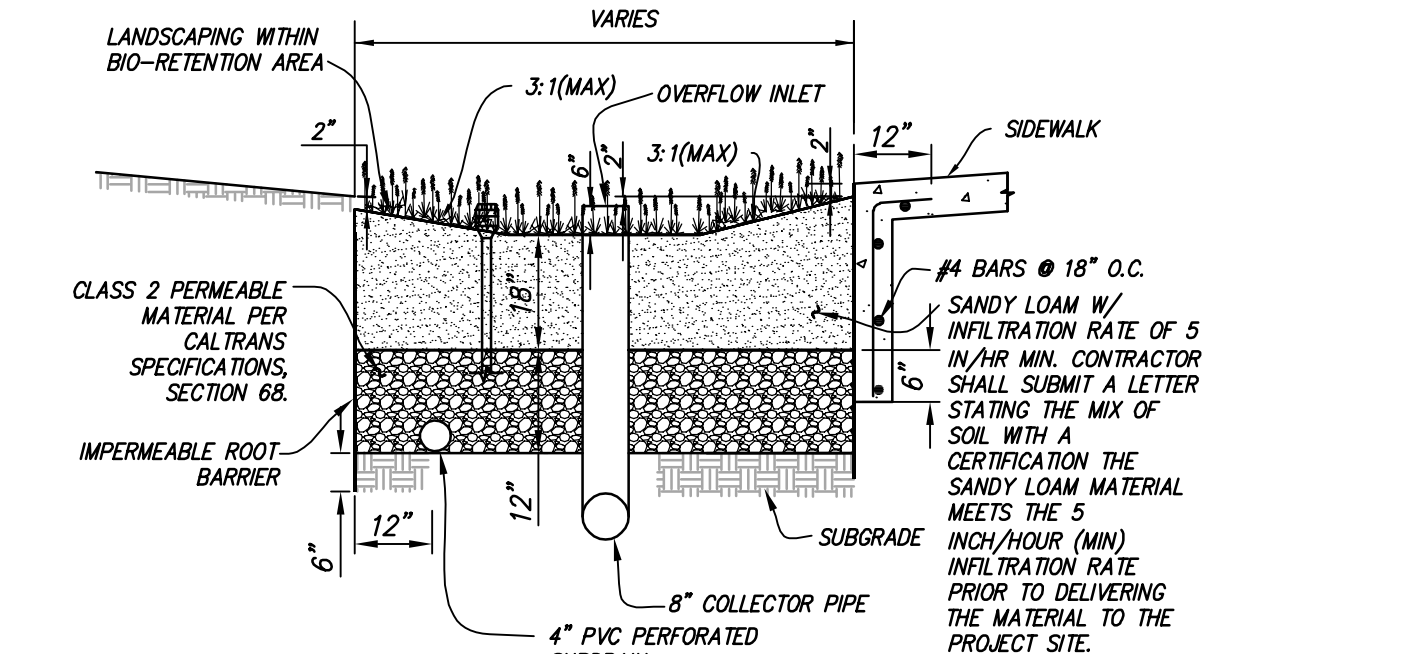
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DATE: JANUARY 7, 2019 JOB NO. 111044TM

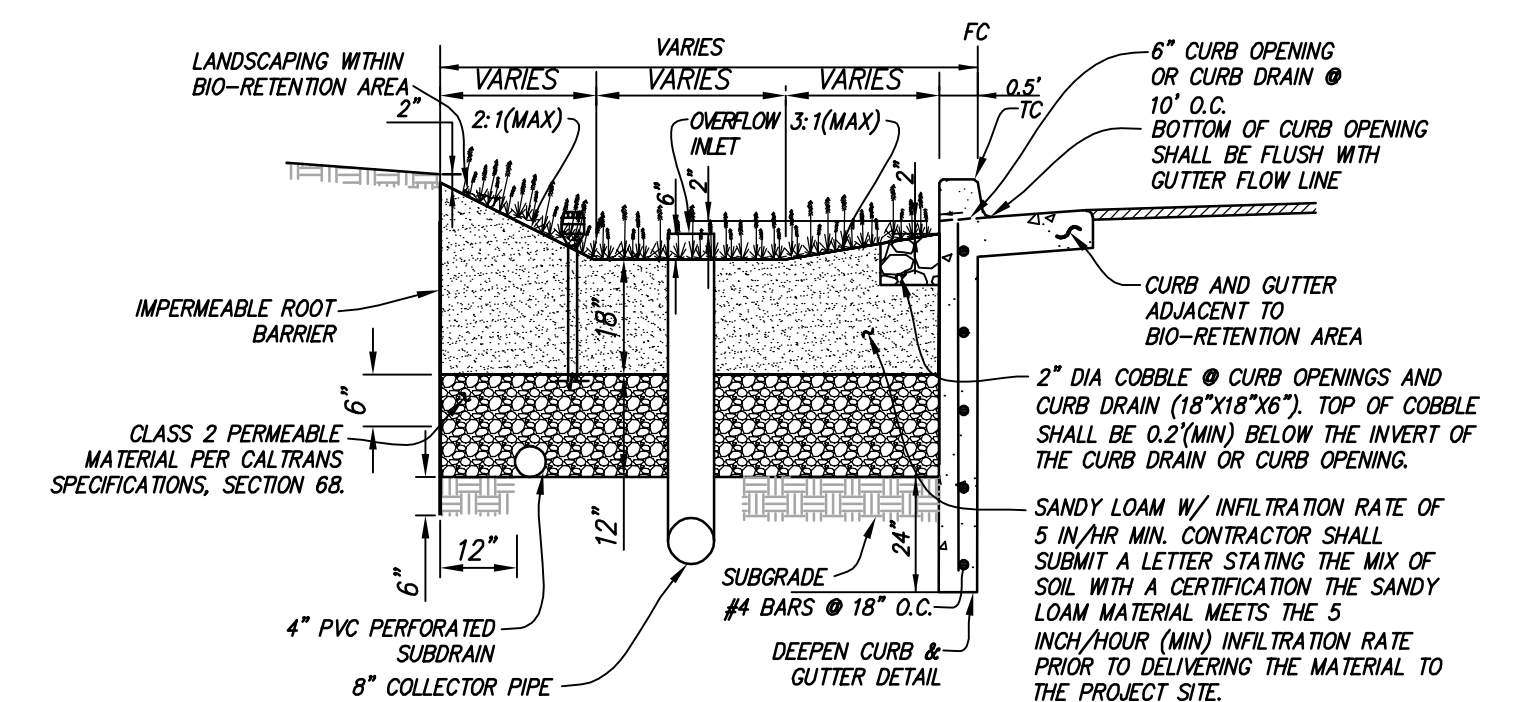
DMA ID	SURFACE	IMPERVIOUS AREA (SF)	REDUCTION IN IMPERVIOUS AREA (TREE CREDIT)	EFFECTIVE LANDSCAPE AREA (SF)	TOTAL EFFECTIVE IMPERVIOUS AREA	BMP USED	SIZING FACTOR	REQUIRED AREA (SF)	SURFACE AREA AS PROVIDED (SF)
DMA 1	ROOF	11,028	0	698	11,726	BIORETENTION	0.04	469	470
DMA 2	ROOF	13,432	0	777	14,209	BIORETENTION	0.04	568	569
DMA 3	ROOF	8,728	350	540	8,918	BIORETENTION	0.04	357	359
DMA 4	ROOF	9,434	925	980	9,489	BIORETENTION	0.04	380	382
DMA 5	ROOF	5,330	0	995	6,325	BIORETENTION	0.04	253	254
DMA 6	ROOF	13,491	1,975	2,087	13,563	BIORETENTION	0.04	543	549
DMA 7	ROOF	10,285	0	1,755	12,040	BIORETENTION	0.04	482	485
DMA 8	ROOF	7,026	0	344	7,370	BIORETENTION	0.04	295	295
DMA 9	ROOF	7,240	0	353	7,593	BIORETENTION	0.04	304	304
DMA 10	ROOF	10,909	150	608	11,367	BIORETENTION	0.04	455	459
DMA 11	PAV	38,000	0	0	38,000	BIORETENTION	0.04	1,520	1520
DMA 12	PAV	9,419	0	0	9,419	BIORETENTION	0.04	377	378
DMA 13	PAV	3,100	0	0	3,100	BIORETENTION	0.04	124	124
DMA 14	PAV	4,061	0	0	4,061	BIORETENTION	0.04	162	164
DMA 15	PAV	2,900	0	0	2,900	BIORETENTION	0.04	116	117
DMA 16	PAV	2,296	0	0	2,296	BIORETENTION	0.04	92	93
DMA 17	PAV	1,700	0	0	1,700	BIORETENTION	0.04	68	69

NOTES:

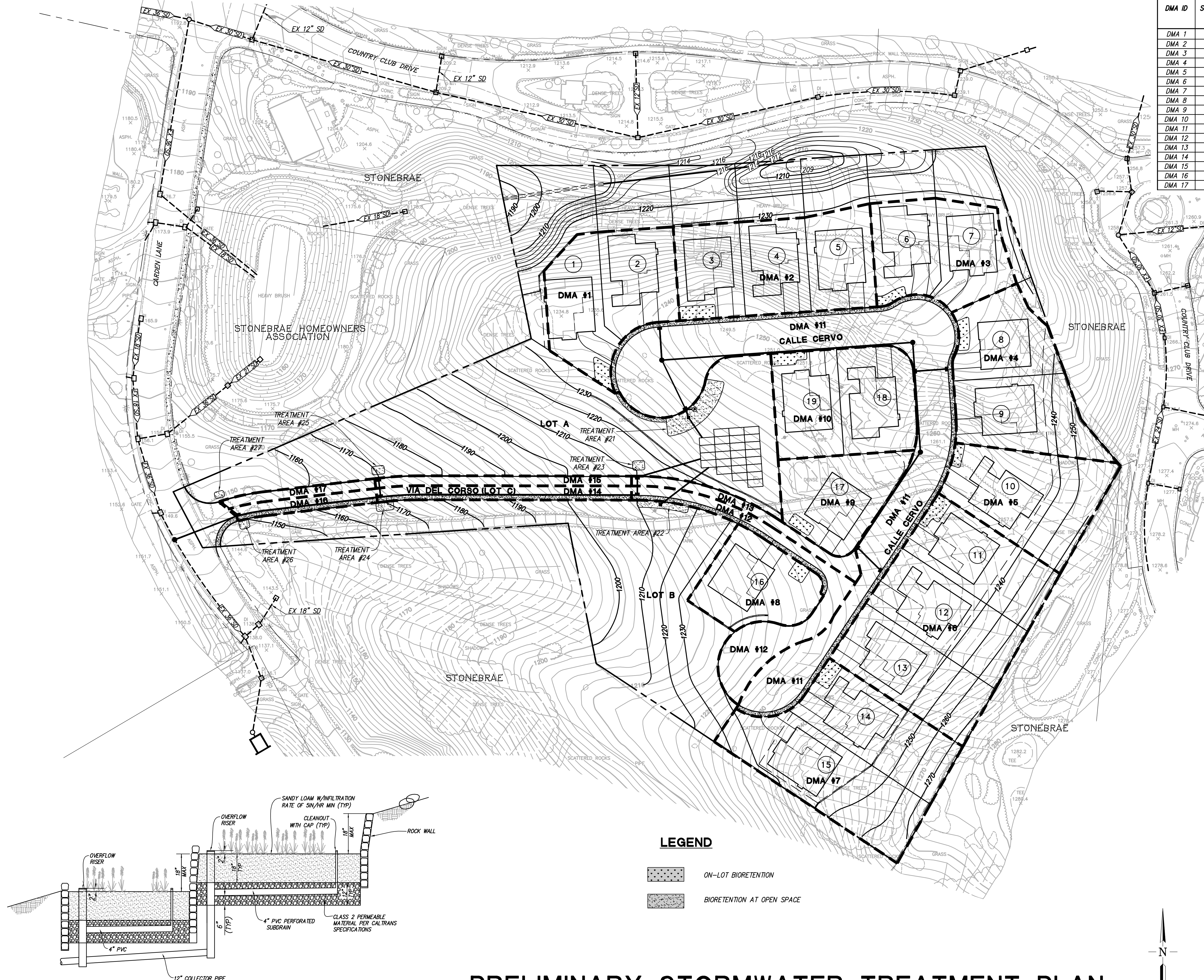
1. THE ABOVE CALCULATIONS ARE BASED ON THE ALAMEDA COUNTYWIDE CLEAN WATER PROGRAM, C.3 STORMWATER TECHNICAL GUIDANCE, DATED JANUARY 1, 2015, AND THE FOLLOWING CRITERIA:
 - a. EFFECTIVE IMPERVIOUS AREA = IMPERVIOUS AREA + 10% OF PERVIOUS AREA
 - b. 0.2 INCHES/HOUR RAINFALL INTENSITY ON 100% OF EFFECTIVE IMPERVIOUS AREA.
 - c. SOIL FOR TREATMENT MEDIUM WITH A 5 INCHES/HOUR INFILTRATION RATE.
2. SIZING FACTOR OF 0.04 NOTED ABOVE IS CALCULATED BASED ON THE FOLLOWING CRITERIA:
 - a. $\text{SIZING FACTOR} = (0.2 \text{ IN/HR}) / (5 \text{ IN/HR}) = 0.04$
3. SITE HAS A TOTAL OF 34 DECIDUOUS TREES. THIS ALLOWS FOR A 3,400 REDUCTION IN IMPERVIOUS AREA



ON-LOT BIO-RETENTION (ADJACENT TO SIDEWALK)
NOT TO SCALE

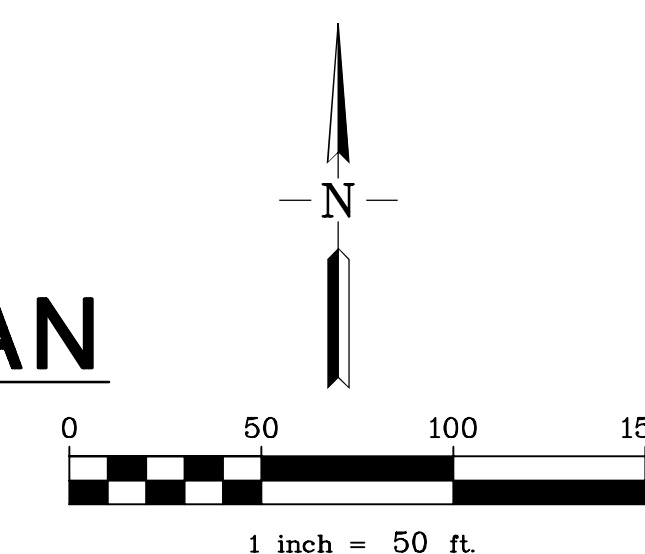


BIORETENTION AT OPEN SPACE
NOT TO SCALE

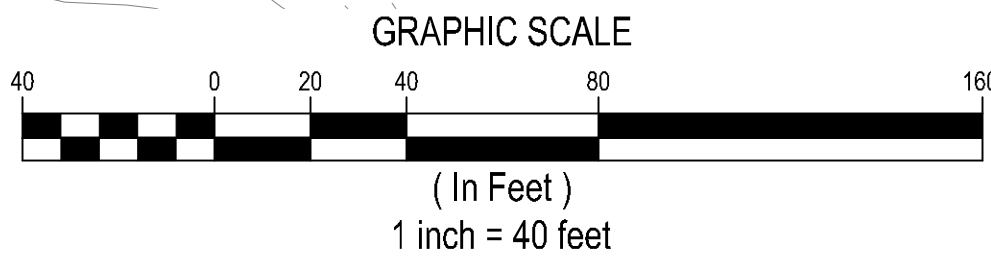


BIORETENTION AREAS FOR DMA #12-17
NOT TO SCALE

PRELIMINARY STORMWATER TREATMENT PLAN
TRACT 8353 - CAVALLO HIGHLANDS
CITY OF HAYWARD, ALAMEDA COUNTY, CALIFORNIA



S:\PROJECTS\179500\179500.L1\PLANNING\179500CL.DWG



EXISTING TREE SUMMARY	
TOTAL TREES TO REMAIN "OFF SITE"	7
TOTAL TREES TO BE REMOVED "ON SITE"	78
TOTAL EXISTING TREES ON SITE	78

TREE PROTECTION LEGEND	
DESCRIPTION	SYMBOL
TREE (ON SITE) TO BE REMOVED	✕ #
TREE (OFF SITE) TO REMAIN/PROTECT	• #

NOTES:

- SEE SHEET L1.2 FOR TREE MITIGATION SUMMARY CHART.
- SEE SHEET L1.3 FOR TREE INVENTORY AND TREE PROTECTION NOTES.
- TREE MITIGATION SHALL COMPLY WITH CITY OF HAYWARD TREE PRESERVATION ORDINANCE REQUIREMENTS, MUNICIPAL CODE CHAPTER 10, ARTICLE 15.



Land Use Entitlements
Land Planning
Landscape Architecture
Civil Engineering
Utility Design
Land Surveying
Stormwater Compliance

1570 Oakland Road
San Jose, CA 95131

(408) 487-2200
HMHca.com

CAVALLO HIGHLANDS

TRACT 8353

HAYWARD, CA

△	
△	
△	
△	
△	
△	

NO	DATE	DESCRIPTION
PROJECT NO:		4795.00
CAD DWG FILE:		479500CL.DWG
DESIGNED BY:		BG
DRAWN BY:		JH
CHECKED BY:		BG
DATE:		JANUARY 8, 2019
SCALE:		1" = 40'
© HMH		

TREE REMOVAL PLAN

L1.1

PLOTTED: 1/8/2019 2:05 PM

Proposed Required Trees		
	Quantity	Sizes
Required Street Trees	54	24" BOX
Required Alley Accent Tree	0	15 GALLON
Required Group Open Space	1	15 GALLON
Required Front Setback Tree	18	24" BOX
Required Evergreen Screening	0	15 GALLON
Required Parking Bay	0	15 GALLON
Total Trees Planted (Required)	73	24" BOX
	0	15 Gallon
Total	73	

TREE MITIGATION MEASURES CHART					
COST OF MATERIALS - PERMEABLE PAVERS					
	STANDARD CONCRETE	PROPOSED PERMEABLE PAVES	IMPROVEMENT COST	S.F.	COST OF IMPROVEMENT
DRIVE & WALKWAYS	\$3.00	\$48.00	\$13.00	11500	\$148,500
ADDITIONAL TREES BEYOND REQUIRED					
	\$0.00			45X \$200 = \$11,250	\$11,250
REPLAZT (1 OPEN SPACE) 15 GALLON TREE WITH 24" BOX TREE					
				1X \$200 = \$200	\$200
TOTAL MATERIAL UPGRADES					
					\$149,950
COST OF LABOR - PERMEABLE PAVES					
	STANDARD CONCRETE	PROPOSED PERMEABLE CONCRETE	IMPROVEMENT COST	S.F.	COST OF IMPROVEMENT
DRIVE & WALKWAYS	\$3.00	\$18.50	\$15.50	11500	\$178,250
REPLAZT (1 OPEN SPACE) 15 GALLON TREE WITH 24" BOX TREE					
				1X \$50 = \$50	\$50
TOTAL LABOR UPGRADES					
					\$178,800
TOTAL UPGRADES					
					\$327,750

Mitigation Summary	
Permeable Paver Mitigation Value	\$327,750.00
Tree Upgrade Mitigation Value	\$13,800.00
Total Mitigation	\$341,550.00

Total Value of Trees to be Removed	\$682,015.92
Total Value to Mitigate	\$340,465.92

LSA
TIM MILLIKEN
CERTIFIED ARBORIST WE5539A

CAVALLO HIGHLANDS
TREE EVALUATION MATRIX
AUGUST 2016

Tree #	Species	Common Name	Nursery Group	Multi-stem	Total DBH (inches)	Species Rating	Estimated Height (feet)	Crown Radius (feet)	Condition Rating	Site Rating	Contribution Rating	Location Rating	Protected Tree Trunk Area (square inches)	Adjusted Trunk Area (square inches)	Replacement Tree Trunk Area (square inches)	Replacement Size Basic Price Per Trunk Area	Installed Tree Cost	Approximate Tree Trunk Increase	Average Regional Tree Cost	Unit Tree Cost	Difference Between Appraised Tree Increase and Replacement Tree Size	Basic Tree Cost	Appraised Tree Value	
1701	<i>Pinus halepensis</i>	Aleppo pine		3	no	16	50%	20	15	100%	50%	40%	50%	201	201	3.8	\$45.46	\$345.46	197	172.73	\$45	\$8,961.96	\$9,307.42	\$ 2,326.85
1702	<i>Pinus halepensis</i>	Aleppo pine		3	no	22	50%	20	15	100%	50%	40%	50%	380	380	3.8	\$45.46	\$345.46	376	172.73	\$45	\$17,097.54	\$17,443.00	\$ 4,360.75
1703	<i>Pinus halepensis</i>	Aleppo pine		3	no	28	50%	20	15	100%	50%	50%	615	615	3.8	\$45.46	\$345.46	612	172.73	\$45	\$27,802.26	\$28,147.72	\$ 7,036.93	
1704	<i>Quercus agrifolia</i>	Coast live oak		1	no	4	90%	20	15	100%	50%	30%	50%	13	13	2.09	\$82.82	\$345.46	10	172.73	\$83	\$865.30	\$1,210.76	\$ 544.84
1705	<i>Quercus agrifolia</i>	Coast live oak		1	no	5	0%	20	15	100%	50%	30%	50%	20	20	2.09	\$82.82	\$345.46	18	172.73	\$83	\$1,449.20	\$1,794.66	\$ -
1706	<i>Quercus agrifolia</i>	Coast live oak		1	no	5	90%	20	15	100%	50%	30%	50%	20	20	2.09	\$82.82	\$345.46	18	172.73	\$83	\$1,449.20	\$1,794.66	\$ 807.60
1707	<i>Quercus agrifolia</i>	Coast live oak		1	no	9	0%	20	15	100%	50%	30%	50%	64	64	2.09	\$82.82	\$345.46	61	172.73	\$83	\$5,082.31	\$5,427.77	\$ -
1708	<i>Quercus agrifolia</i>	Coast live oak		1	no	10	90%	20	15	100%	50%	30%	50%	79	79	2.09	\$82.82	\$345.46	76	172.73	\$83	\$6,314.98	\$6,660.44	\$ 2,997.20
1709	<i>Umbellularia californica</i>	California bay		1	yes	100	70%	30	30	100%	50%	50%	7,850	2,493	2.09	\$82.82	\$345.46	2,491	172.73	\$83	\$205,863.58	\$206,209.04	\$ 72,173.16	
1710	<i>Umbellularia californica</i>	California bay		1	yes	60	70%	30	25	100%	50%	50%	2,826	1,865	2.09	\$82.82	\$345.46	1,863	172.73	\$83	\$153,961.94	\$154,307.40	\$ 54,007.59	
1711	<i>Umbellularia californica</i>	California bay		1	yes	60	70%	30	20	100%	50%	50%	2,826	1,865	2.09	\$82.82	\$345.46	1,863	172.73	\$83	\$153,961.94	\$154,307.40	\$ 54,007.59	
1712	<i>Umbellularia californica</i>	California bay		1	yes	90	70%	30	15	94%	50%	50%	6,359	2,437	2.09	\$82.82	\$345.46	2,434	172.73	\$83	\$201,194.09	\$201,539.55	\$ 66,130.16	
1713	<i>Umbellularia californica</i>	California bay		1	no	48	70%	30	20	97%	50%	50%	1,809	1,468	2.09	\$82.82	\$345.46	1,465	172.73	\$83	\$121,115.14	\$121,460.60	\$ 41,182.73	
1714	<i>Umbellularia californica</i>	California bay		1	no	48	70%	30	20	100%	50%	50%	1,809	1,468	2.09	\$82.82	\$345.46	1,465	172.73	\$83	\$121,115.14	\$121,460.60	\$ 42,511.21	
1715	<i>Quercus agrifolia</i>	Coast live oak		1	no	15	90%	20	15	100%	50%	40%	50%	177	177	2.09	\$82.82	\$345.46	175	172.73	\$83	\$14,424.61	\$14,770.07	\$ 6,646.53
1716	<i>Eucalyptus globulus</i>	Blue gum		5	no	52	10%	100	30	97%	50%	50%	2,123	1,611	4.75	\$36.36	\$345.46	1,606	172.73	\$36	\$58,401.29	\$58,746.75	\$ 2,845.55	
1717	<i>Eucalyptus globulus</i>	Blue gum		5	no	24	10%	60	30	84%	50%	50%	452	452	4.75	\$36.36	\$345.46	447	172.73	\$36	\$16,269.71	\$16,615.17	\$ 700.95	
1718	<i>Eucalyptus globulus</i>	Blue gum		5	no	20	10%	75	30	84%	50%	40%	50%	314	314	4.75	\$36.36	\$345.46	309	172.73	\$36	\$11,245.63	\$11,591.09	\$ 489.00
1719	<i>Eucalyptus globulus</i>	Blue gum		5	no	32	10%	60	30	84%	50%	50%	804	788	4.75	\$36.36	\$345.46	783	172.73	\$36	\$28,466.27	\$28,811.73	\$ 1,215.49	
1720	<i>Eucalyptus globulus</i>	Blue gum		5	no	48	10%	80	30	81%	50%	50%	1,809	1,468	4.75	\$36.36	\$345.46	1,463	172.73	\$36	\$53,193.93	\$53,539.39	\$ 2,175.04	
1721	<i>Eucalyptus globulus</i>	Blue gum		5	no	24	10%	80	30	81%	50%	50%	452	452	4.75	\$36.36	\$345.46	447	172.73	\$36	\$16,269.71	\$16,615.17	\$ 674.99	
1722	<i>Eucalyptus globulus</i>	Blue gum		5	no	14	10%	60	30	78%	50%	40%	50%	154	154	4.75	\$36.36	\$345.46	149	172.73	\$36	\$5,422.27	\$5,767.73	\$ 225.30
1723	<i>Eucalyptus globulus</i>	Blue gum		5	no	16	10%	55	30	78%	50%	40%	50%	201	201	4.75	\$36.36	\$345.46	196	172.73	\$36	\$7,135.02	\$7,480.48	\$ 292.21
1724	<i>Eucalyptus globulus</i>	Blue gum		5	no	16	10%	50	30	81%	50%	40%	50%	201	201	4.75	\$36.36	\$345.46	196	172.73	\$36	\$7,135.02	\$7,480.48	\$ 303.89
1725	<i>Eucalyptus globulus</i>	Blue gum		5	no	16	10%	35	30	81%	50%	40%	50%	201	201	4.75	\$36.36	\$345.46	196	172.73	\$36	\$7,135.02	\$7,480.48	\$ 303.89
1726	<i>Eucalyptus globulus</i>	Blue gum		5	no	16	10%	60	30	81%	50%	40%	50%	201	201	4.75	\$36.36	\$345.46	196	172.73	\$36	\$7,135.02	\$7,480.48	\$ 303.89
1727	<i>Eucalyptus globulus</i>	Blue gum		5	no	48	10%	60	30	81%	50%	50%	1,809	1,468	4.75	\$36.36	\$345.46	1,463	172.73	\$36	\$53,193.93	\$53,539.39	\$ 2,175.04	
1728	<i>Eucalyptus globulus</i>	Blue gum		5	no	22	10%	60	30	81%	50%	40%	50%	380	380	4.75	\$36.36	\$345.46	375	172.73	\$36	\$13,643.49	\$13,988.95	\$ 568.30
1729	<i>Eucalyptus globulus</i>	Blue gum		5	no	28	10%	80	30	81%	50%	50%	615	615	4.75	\$36.36	\$345.46	611	172.73	\$36	\$22,207.26	\$22,552.72	\$ 916.20	
1730	<i>Eucalyptus globulus</i>	Blue gum		5	no	12	10%	45	30	81%	50%	30%	50%	113	113	4.75	\$36.36	\$345.46	108	172.73	\$36	\$3,937.88	\$4,283.34	\$ 174.01
1731	<i>Eucalyptus globulus</i>	Blue gum		5	no	20	10%	30	30	81%	50%	40%	50%	314	314	4.75	\$36.36	\$345.46	309	172.73	\$36	\$11,245.63	\$11,591.09	\$ 470.89
1732	<i>Eucalyptus globulus</i>	Blue gum		5	no	48	10%	80	30	81%	50%	50%	1,809	1,468	4.75	\$36.36	\$345.46	1,463	172.73	\$36	\$53,193.93	\$53,539.39	\$ 2,175.04	
1733	<i>Eucalyptus globulus</i>	Blue gum		5	no	10	10%	35	30	81%	50%	30%	50%	79	79	4.75	\$36.36	\$345.46	74	172.73	\$36	\$2,681.86	\$3,027.32	\$ 122.98
1734	<i>Eucalyptus globulus</i>	Blue gum		5	no	6	0%	30	30	69%	50%	30%	50%	28	28	4.75	\$36.36	\$345.46	24	172.73	\$36	\$854.92	\$1,200.38	\$ -
1735	<i>Eucalyptus globulus</i>	Blue gum		5	no	18	10%	75	30	81%	50%	40%	50%	254	254	4.75	\$36.36	\$345.46	250	172.73	\$36	\$9,076.14	\$9,421.60	\$ 382.75
1736	<i>Eucalyptus globulus</i>	Blue gum		5	no	42	10%	90	30	81%	50%	50%	1,385	1,233	4.75	\$36.36	\$345.46	1,228	172.73	\$36	\$44,651.98	\$44,997.44	\$ 1,828.02	
1737	<i>Eucalyptus globulus</i>	Blue gum		5	no	23	10%	80	30	81%	50%	40%	50%	415	415	4.75	\$36.36	\$345.46	411	172.73	\$36	\$14,928.05	\$15,273.51	\$ 620.49
1738	<i>Eucalyptus globulus</i>	Blue gum		5	no	22	10%	80	30	81%	50%	40%	50%	380	380	4.75	\$36.36	\$345.46	375	172.73	\$36	\$13,643.49	\$13,988.95	\$ 568.30
1739	<i>Eucalyptus globulus</i>	Blue gum		5	yes	18	10%	35	30	69%	50%	40%	50%	254	254	4.75	\$36.36	\$345.46	250	172.73	\$36	\$9,076.14	\$9,421.60	\$ 323.87
1740	<i>Eucalyptus globulus</i>	Blue gum		5	no	28	10%	40	30	69%	50%	50%	615	615	4.75	\$36.36	\$345.46	611	172.73	\$36	\$22,207.26	\$22,552.72	\$ 775.25	
1741	<i>Eucalyptus globulus</i>	Blue gum		5	no	19	10%	60	30	81%	50%	40%	50%	283	283	4.75	\$36.36	\$345.46	279	172.73	\$36	\$10,132.34	\$10,477.80	\$ 425.66
1742	<i>Eucalyptus globulus</i>	Blue gum		5	no	50	10%	90	30	78%	50%	50%	1,963	1,541	4.75	\$36.36	\$345.46	1,536	172.73	\$36	\$55,846.34	\$56,191.80	\$ 2,194.99	

Tree #	Species	Common Name	Nursery Group	Multi-stem	Total DBH (inches)	Species Rating	Estimated Height (feet)	Crown Radius (feet)	Condition Rating	Site Rating	Contribution Rating	Location Rating	Protected Tree Trunk Area (square inches)	Adjusted Trunk Area (square inches)	Replacement Tree Trunk Area (square inches)	Replacement Size Basic Price Per Trunk Area	Installed Tree Cost	Approximate Tree Trunk Increase	Average Regional Tree Cost	Unit Tree Cost	Difference Between Appraised Tree Increase and Replacement Tree Size	Basic Tree Cost	Appraised Tree Value	
1743	<i>Eucalyptus globulus</i>	Blue gum		5	no	19	10%	25	30	78%	50%	40%	50%	283	283	4.75	\$36.36	\$345.46	279	172.73	\$36	\$10,132.34	\$10,477.80	\$ 409.29
1744	<i>Eucalyptus globulus</i>	Blue gum		5	no	72	10%	100	30	78%	50%	50%	4,069	2,166	4.75	\$36.36	\$345.46	2,161	172.73	\$36	\$78,590.70	\$78,936.16	\$ 3,083.44	
1745	<i>Eucalyptus globulus</i>	Blue gum		5	no	12	10%	30	30	63%	50%	30%	50%	113	113	4.75	\$36.36	\$345.46	108	172.73	\$36	\$3,937.88	\$4,283.34	\$ 133.85
1746	<i>Eucalyptus globulus</i>	Blue gum		5	no	36	10%	60	30	81%	50%	50%	1,017	974	4.75	\$36.36	\$345.46	969	172.73	\$36	\$35,232.92	\$35,578.38	\$ 1,445.37	
1747	<i>Eucalyptus globulus</i>	Blue gum		5	no	30	10%	65	30	78%	50%	50%	707	707	4.75	\$36.36	\$345.46	702	172.73	\$36	\$25,518.58	\$25,864.04	\$ 1,010.31	
1748	<i>Eucalyptus globulus</i>	Blue gum		5	no	6	0%	25	30	78%	50%	30%	50%	28	28	4.75	\$36.36	\$345.46	24	172.73	\$36	\$854.92	\$1,200.38	\$ -
1749	<i>Eucalyptus globulus</i>	Blue gum		5	yes	32	10%	60	30	69%	50%	50%	804	788	4.75	\$36.36	\$345.46	783	172.73	\$36	\$28,466.27	\$28,811.73	\$ 990.40	
1750	<i>Eucalyptus globulus</i>	Blue gum		5	no	36	10%	100	30	78%	50%	50%	1,017	974	4.75	\$36.36	\$345.46	969	172.73	\$36	\$35,232.92	\$35,578.38	\$ 1,389.78	
1751	<i>Eucalyptus globulus</i>	Blue gum		5	no	48	10%	45	30	78%	50%	50%	1,809	1,468	4.75	\$36.36	\$345.46	1,463	172.73	\$36	\$53,193.93	\$53,539.39	\$ 2,091.38	
1752	<i>Eucalyptus globulus</i>	Blue gum		5	yes	36	10%	100	30	69%	50%	50%	1,017	974	4.75	\$36.36	\$345.46	969	172.73	\$36	\$35,578.38	\$35,923.84	\$ 1,223.67	
1753	<i>Eucalyptus globulus</i>	Blue gum		5	no	8	10%	35	30	81%	50%	30%	50%	50	50	4.75	\$36.36	\$345.46	45	172.73	\$36	\$1,654.21	\$1,999.67	\$ 81.24
1754	<i>Eucalyptus globulus</i>	Blue gum		5	no	28	10%	25	30	78%	50%	50%	615	615	4.75	\$36.36	\$345.46	611	172.73	\$36	\$22,202.26	\$22,552.72	\$ 880.97	
1755	<i>Eucalyptus globulus</i>	Blue gum		5	no	20	10%	60	30	78%	50%	50%	314	314	4.75	\$36.36	\$345.46	309	172.73	\$36	\$11,245.63	\$11,591.09	\$ 452.78	
1756	<i>Eucalyptus globulus</i>	Blue gum		5	yes	26	10%	60	30	78%	50%	50%	531	531	4.75	\$36.36	\$345.46	526	172.73	\$36	\$19,124.30	\$19,469.76	\$ 760.54	
1757	<i>Eucalyptus globulus</i>	Blue gum		5	yes	48	10%	90	30	78%	50%	50%	1,809	1,468	4.75	\$36.36	\$345.46	1,463	172.73	\$36	\$53,193.93	\$53,539.39	\$ 2,091.38	
1758	<i>Eucalyptus globulus</i>	Blue gum		5	yes	26	10%	80	30	78%	50%	50%	531	531	4.75	\$36.36	\$345.46	526	172.73	\$36	\$19,124.30	\$19,469.76	\$ 760.54	
1759	<i>Eucalyptus globulus</i>	Blue gum		5	yes	36	10%	100	30	81%	50%	50%	1,017	974	4.75	\$36.36	\$345.46	969	172.73	\$36	\$35,232.92	\$35,578.38	\$ 1,445.37	
1760	<i>Eucalyptus globulus</i>	Blue gum		5	no	46	10%	100	30	78%	50%	50%	1,661	1,392	4.75	\$36.36	\$345.46	1,387	172.73	\$36	\$50,444.07	\$50,789.53	\$ 1,983.97	
1761	<i>Eucalyptus globulus</i>	Blue gum		5	no	48	10%	100	30	78%	50%	50%	1,809	1,468	4.75	\$36.36	\$345.46	1,463	172.73	\$36	\$53,193.93	\$53,539.39	\$ 2,091.38	
1762	<i>Eucalyptus globulus</i>	Blue gum		5	no	26	10%	60	30	78%	50%	50%	531	531	4.75	\$36.36	\$345.46	526	172.73	\$36	\$19,124.30	\$19,469.76	\$ 760.54	
1763	<i>Eucalyptus globulus</i>	Blue gum		5	no	28	10%	80	30	78%	50%	50%	615	615	4.75	\$36.36	\$345.46	611	172.73	\$36	\$22,202.26	\$22,552.72	\$ 880.97	
1764	<i>Eucalyptus globulus</i>	Blue gum		5	no	30	10%	70	30	78%	50%	50%	707	707	4.75	\$36.36	\$345.46	702	172.73	\$36	\$25,518.58	\$25,864.04	\$ 1,010.31	
1765	<i>Eucalyptus globulus</i>	Blue gum		5	no	100	10%	90	30	81%	50%	50%	7,850	2,493	4.75	\$36.36	\$345.46	2,488	172.73	\$36	\$90,483.25	\$90,828.71	\$ 3,689.92	
1766	<i>Prunus cerasifera</i>	Plum		3	yes	8	10%	10	8%	75%	50%	30%	50	50	4.75	\$45.46	\$345.46	46	172.73	\$45	\$2,456.40	\$2,811.94	\$ 355.54	
1767	<i>Prunus cerasifera</i>	Plum		3	yes	24	30%	12	12	75%	50%	40%	50%	452	452	3.8	\$45.46	\$345.46	448	172.73	\$45	\$20,380.32	\$20,725.78	\$ 2,331.65
1768	<i>Eucalyptus globulus</i>	Blue gum		5	no	15	10%	55	30	84%	50%	40%	50%	177	177	4.75	\$36.36	\$345.46	172	172.73	\$36	\$6,250.10	\$6,595.56	\$ 278.25
1769	<i>Pinus palustris</i>	Longleaf pine		2	yes	44	70%	80	20	81%	50%	50%	1,520	1,314	2.24	\$77.04	\$345.46	1,311	172.73	\$77	\$101,124.16	\$101,469.62	\$ 346,621.50	
1770	<i>Salix laevigata</i>	Red willow		2	no	8	70%	10	12	100%	50%	30%	60%	50	50	2.24	\$77.04	\$345.46	48	172.73	\$77	\$3,701.36	\$4,046.82	\$ 1,699.66
1771	<i>Quercus agrifolia</i>	Coast live oak		1	no	7	90%	10	10	100%	50%	30%	60%	38	38	2.09	\$82.82	\$345.46	36	172.73	\$83	\$3,006.25	\$3,351.71	\$ 1,809.92
1772	<i>Olea europaea</i>	Olive		2	no	16	20%	20	12	100%	50%	40%	70%	201	201	2.24	\$77.04	\$345.46	199	172.73	\$77	\$15,523.62	\$15,669.08	\$ 2,193.67
1773	<i>Cedrus deodora</i>	Deodar cedar		1	no	54	90%	75	25	100%	50%	50%	70%	2,289	1,678	2.09	\$82.82	\$345.46	1,676	172.73	\$83	\$138,535.25	\$138,880.71	\$ 87,494.84
1774	<i>Acacia melanoxylon</i>	Blackwood acacia		4	no	40	20%	30	25	84%	50%	50%	70%	1,256	1,149	4.75	\$36.36	\$345.46	1,144	172.73	\$36	\$41,609.75	\$41,955.21	\$ 4,955.96
1775	<i>Prunus cerasifera</i>	Plum		3	no	16	30%	15	15	69%	50%	40%	70%	201	201	3.8	\$45.46	\$345.46	197	172.73	\$45	\$8,961.96	\$9,307.42	\$ 1,343.76
1776	<i>Eucalyptus globulus</i>	Blue gum		5	no	48	10%	90	30	81%	50%	50%	1,809	1,468	4.75	\$36.36	\$345.46	1,463	172.73	\$36	\$53,193.93	\$53,539.39	\$ 3,045.05	
1777	<i>Eucalyptus globulus</i>	Blue gum		5	no	72	10%	100	30	84%	50%	50%	4,069	2,166	4.75	\$36.36	\$345.46	2,161	172.73	\$36	\$78,590.70	\$78,936.16	\$ 4,662.17	
1778	<i>Eucalyptus globulus</i>	Blue gum		5	no	15	10%	40	30	84%	50%	40%	70%	177	177	4.75	\$36.36	\$345.46	172	172.73	\$36	\$6,250.10	\$6,595.56	\$ 389.55
1779	<i>Eucalyptus globulus</i>	Blue gum		5	no	50	10%	100	30	78%	50%	50%	1,809	1,468	4.75	\$36.36	\$345.46	90	172.73	\$36	\$33,781.32	\$34,126.78	\$ 206.37	
1780	<i>Eucalyptus globulus</i>	Blue gum		5	no	19	10%	75	30	84%	50%	40%	70%	283	283	4.75	\$36.36	\$345.46	279	172.73	\$36	\$10,132.34	\$10,477.80	\$ 618.85
1781	<i>Quercus agrifolia</i>	Coast live oak		1	no	42	90%	35	35	100%	50%	50%	70%	1,385	1,233	2.09	\$82.82	\$345.46	1,231	172.73	\$83	\$101,701.61	\$102,047.07	\$ 64,289.65
1782	<i>Quercus agrifolia</i>	Coast live oak		1	no	40	90%	2	30	81%	50%	50%	70%	1,256	1,149	2.09	\$82.82	\$345.46	1,147	172.73	\$83	\$94,787.45	\$95,132.91	\$ 48,696.16
1783	<i>Acer macrophyllum</i>	Bigleaf maple		4	no	52	30%	25	25	69%	50%	50%	50%	2,123	1,611	4.75	\$36.36	\$345.46	1,606	172.73	\$36	\$58,401.29	\$58,746.75	\$ 6,058.26
1784	<i>Quercus agrifolia</i>	Coast live oak		1	yes	27	90%	15	20	100%	50%	50%	50%	572	572	2.09	\$82.82	\$345.46	570	172.73	\$83	\$47,122.64	\$47,468.10	\$ 21,360.65
1785	<i>Quercus agrifolia</i>	Coast live oak		1	yes	51	0%	25	20	100%	50%	50%	50%	2,042	1,576	2.09	\$82.82	\$345.46	1,574	172.73	\$83	\$130,074.37	\$130,419.83	\$ -
Total Tree Appraisal Evaluation																					\$ 693,012.02			

TREE PROTECTION NOTES

SECTION I
 SITE PREPARATION: ALL EXISTING TREES SHALL BE FENCED OFF WITHIN, AT OR OUTSIDE THE DRIP LINE (FOLIAR SPREAD) OF THE TREE USING THE FOLLOWING FORMULA: TWELVE INCHES IN DISTANCE FROM THE TRUNK FOR EVERY INCH IN TRUNK DIAMETER, MEASURED 2.0 FEET ABOVE THE AVERAGE GROUND LEVEL. EXAMPLE: A 24 INCH DIAMETER TREE WOULD HAVE A FENCE ERECTED 24 FEET FROM THE BASE OF THE TREE (24 X 12 = 288 / 12 = 24). THE FENCE SHOULD BE A MINIMUM OF SIX FEET HIGH, MADE OF WIRE WITH STEEL STAKES, SUCH AS CYCLONE FENCING. IF THE FENCE IS WITHIN THE DRIP LINE OF THE TREES, EVERY ATTEMPT SHOULD BE MADE TO RELOCATE THE FENCE OUTSIDE THE DRIPLINE OF THE TREE. IF NOT POSSIBLE, THE TREE SHALL BE PRUNED TO REDUCE THE CHANCE OF LIMB BREAKAGE FROM CONSTRUCTION EQUIPMENT ENCRoACHING WITHIN THE DRIP LINE. ALL CONTRACTORS, SUBCONTRACTORS AND OTHER PERSONNEL SHALL BE WARNED THAT ENCRoACHMENT WITHIN THE FENCED AREA IS FORBIDDEN WITHOUT THE CONSENT OF THE CERTIFIED ARBORIST ON THE JOB. THIS INCLUDES, BUT IS NOT LIMITED TO, STORAGE OF LUMBER AND OTHER MATERIALS, DISPOSAL OF PAINTS, SOLVENTS OR OTHER NOXIOUS MATERIALS, PARKED CARS, GRADING EQUIPMENT OR OTHER HEAVY EQUIPMENT. PENALTIES, BASED ON THE COST OF REMEDIAL REPAIRS AND THE EVALUATION GUIDE PUBLISHED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE, SHALL BE ASSESSED FOR DAMAGES TO THE TREES.

SECTION II
 GRADING/EXCAVATING: ALL GRADING PLANS THAT SPECIFY GRADING WITHIN THE DRIP LINE OF ANY TREE, OR WITHIN THE DISTANCE FROM THE TRUNK AS OUTLINED IN SECTION I WHEN SAID DISTANCE IS OUTSIDE THE DRIP LINE, SHALL FIRST BE REVIEWED BY THE CERTIFIED ARBORIST. PROVISIONS FOR AERATION, DRAINAGE, PRUNING, TUNNELING BENEATH ROOTS, ROOT PRUNING OR OTHER NECESSARY ACTIONS TO PROTECT THE TREES SHALL BE OUTLINED BY THE ARBORIST. IF TRENCHING IS NECESSARY WITHIN THE AREA AS DESCRIBED ABOVE, SAID TRENCHING SHALL BE UNDERTAKEN BY HAND LABOR. ALL ROOTS 2 INCHES OR LARGER SHALL BE TUNNELED UNDER AND OTHER ROOTS SHALL BE CUT SMOOTHLY TO THE TRUNK SIDE OF THE TRENCH. THE TRUNK SIDE SHOULD BE DRAPED IMMEDIATELY WITH TWO LAYERS OF UNTREATED BURLAP TO A DEPTH OF 3 FEET FROM THE SURFACE. THE BURLAP SHALL BE SOAKED NIGHTLY AND LEFT IN PLACE UNTIL THE TRENCH IS BACK FILLED TO THE ORIGINAL LEVEL. THE ARBORIST SHALL EXAMINE THE TRENCH PRIOR TO BACK FILLING TO ASCERTAIN THE NUMBER AND SIZE OF ROOTS CUT, SO AS TO SUGGEST THE NECESSARY REMEDIAL REPAIRS.

SECTION III
 REMEDIAL REPAIRS: THE ARBORIST ON THE JOB SHALL HAVE THE RESPONSIBILITY OF OBSERVING ALL ONGOING ACTIVITIES THAT MAY AFFECT THE TREES, AND PRESCRIBING NECESSARY REMEDIAL WORK TO INSURE THE HEALTH AND STABILITY OF SAID TREES. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL ARBORIST ACTIVITIES BROUGHT OUT IN SECTIONS I AND II. IN ADDITION, PRUNING, AS OUTLINED IN THE "PRUNING STANDARDS" OF THE WESTERN CHAPTER OF THE INTERNATIONAL SOCIETY OF ARBORICULTURE, SHALL BE PRESCRIBED AS NECESSARY. FERTILIZING, AERATION, IRRIGATION, PEST CONTROL AND OTHER ACTIVITIES SHALL BE PRESCRIBED ACCORDING TO THE TREE NEEDS, LOCAL SITE REQUIREMENTS, AND STATE AGRICULTURAL PEST CONTROL LAWS. ALL SPECIFICATIONS SHALL BE IN WRITING. FOR PEST CONTROL OPERATIONS, CONSULT THE LOCAL COUNTY AGRICULTURAL COMMISSIONERS OFFICE FOR INDIVIDUALS LICENSED AS PEST CONTROL ADVISORS OR PEST CONTROL OPERATORS.

SECTION IV
 FINAL INSPECTION: UPON COMPLETION OF THE PROJECT, THE ARBORIST SHALL REVIEW ALL WORK UNDERTAKEN THAT MAY IMPACT THE EXISTING TREES. SPECIAL ATTENTION SHALL BE GIVEN TO CUTS AND FILLS, COMPACTING, DRAINAGE, PRUNING AND FUTURE REMEDIAL WORK. THE ARBORIST SHOULD SUBMIT A FINAL REPORT IN WRITING OUTLINING THE ONGOING REMEDIAL CARE FOLLOWING THE FINAL INSPECTION.

- SECTION V
 TREE RELOCATION:
- TREES TO BE RELOCATED SHALL BE RELOCATED DURING THE FALL MONTHS. FOR DECIDUOUS TREES, RELOCATION SHALL OCCUR AFTER LEAF DROP.
 - THE SOIL BENEATH THE DRIPLINE OF TREES TO BE RELOCATED SHALL BE WATERED 72 HOURS PRIOR TO RELOCATION SO THE SOIL IS MOIST, BUT NOT SATURATED AT THE TIME OF RELOCATION.
 - LANDSCAPE ARCHITECT OR ARBORIST SHALL SUPERVISE THE RELOCATION SO TREE CAN BE TRANSPLANTED IN A OPTIMAL ORIENTATION.
 - ROOT BALL EXCAVATION SHALL BE NO LESS THAN 30 INCHES DEEP. THE ROOT BALL EXCAVATION DIAMETER SHALL BE NO LESS THAN 10 INCHES PER 1 INCH OF TRUNK DIAMETER. ROOTBALL SHALL BE SUPPORTED DURING TRANSPORT AND WRAPPED IN WIRE OR BURLAP.
 - ALL TREES SHALL BE TRANSPLANTED WITHIN 48 HOURS OF EXCAVATION.
 - TRANSPLANT HOLE SHALL BE PREPARED AND TWO TIMES THE DIAMETER OF THE ROOTBALL, BUT NO DEEPER THAN THE DEPTH OF THE ROOTBALL.
 - TRIMMING AND PRUNING OF RELOCATED TREE SHALL BE LIMITED TO DISEASED OR DAMAGED LIMBS FOR THE YEAR FOLLOWING THE TRANSPLANT.

Tree #	Common Name (Species Name)	DBH (inches)	Health Condition	Notes
1749	Blue gum (<i>Eucalyptus globulus</i>)	32	Poor	3 stem. Poor form.
1750	Blue gum (<i>Eucalyptus globulus</i>)	36	Fair	Moderately good form considering other trees in grove.
1751	Blue gum (<i>Eucalyptus globulus</i>)	48	Fair	
1752	Blue gum (<i>Eucalyptus globulus</i>)	36	Poor.	3 stems. Broken top.
1753	Blue gum (<i>Eucalyptus globulus</i>)	8	Fair	Moderately good form considering other trees in grove.
1754	Blue gum (<i>Eucalyptus globulus</i>)	28	Fair	Poor form, rotten trunk.
1755	Blue gum (<i>Eucalyptus globulus</i>)	20	Fair	Poor form.
1756	Blue gum (<i>Eucalyptus globulus</i>)	26	Fair	2 stems. Poor form.
1757	Blue gum (<i>Eucalyptus globulus</i>)	48	Fair	2 stems.
1758	Blue gum (<i>Eucalyptus globulus</i>)	26	Fair	2 stems. Poor form.
1759	Blue gum (<i>Eucalyptus globulus</i>)	36	Fair	3 stems. Significant rot in main stem.
1760	Blue gum (<i>Eucalyptus globulus</i>)	46	Fair	Moderately good form considering other trees in grove.
1761	Blue gum (<i>Eucalyptus globulus</i>)	48	Fair	Moderately good form considering other trees in grove.
1762	Blue gum (<i>Eucalyptus globulus</i>)	26	Fair	Moderately good form considering other trees in grove.
1763	Blue gum (<i>Eucalyptus globulus</i>)	28	Fair	Moderately good form considering other trees in grove.
1764	Blue gum (<i>Eucalyptus globulus</i>)	30	Fair	Cankers.
1765	Blue gum (<i>Eucalyptus globulus</i>)	100	Fair	Multiple upright stems.
1766	Plum (<i>Prunus x domestica</i>)	8	Poor	Multiple stems, 2 are greater than 4 inches.
1767	Plum (<i>Prunus x domestica</i>)	24	Poor	Multiple stems, 2 are greater than 4 inches.
1768	Blue gum (<i>Eucalyptus globulus</i>)	15	Fair	Moderately good form considering other trees in grove.
1769	Pine (<i>Pinus</i> sp.)	44	Fair	2 co-dominant stems.
1770	Red willow (<i>Salix laevigata</i>)	8	Good	Multiple stems. Tree typical of species.
1771	Coast live oak (<i>Quercus agrifolia</i>)	7	Good	In rock outcrop. Tree typical of species.
1772	Olive (<i>Olea europaea</i>)	16	Good	
1773	Deodar cedar (<i>Cedrus deodara</i>)	54	Good	
1774	Blackwood acacia (<i>Acacia melanoxylon</i>)	40	Fair	

6/23/16 C:\ptf1\projects\IILC1601 Aitken\Tree Inventory\Draft Aitken Tree Inventory (06-23-16).docx

Tree #	Common Name (Species Name)	DBH (inches)	Health Condition	Notes
1775	Plum (<i>Prunus x domestica</i>)	16	Poor	Poor form. Half of tree dead.
1776	Blue gum (<i>Eucalyptus globulus</i>)	48	Fair	
1777	Blue gum (<i>Eucalyptus globulus</i>)	72	Fair	
1778	Blue gum (<i>Eucalyptus globulus</i>)	15	Fair	
1779	Blue gum (<i>Eucalyptus globulus</i>)	11	Fair	
1780	Blue gum (<i>Eucalyptus globulus</i>)	19	Fair	
1781	Coast live oak (<i>Quercus agrifolia</i>)	42	Good	Nice specimen tree.
1782	Coast live oak (<i>Quercus agrifolia</i>)	40	Good	Tree has fallen over but is still alive.
1783	Big leaf maple (<i>Acer macrophyllum</i>)	52	Poor	Tree is half dead.
1784	Coast live oak (<i>Quercus agrifolia</i>)	27	Good	3 stems. Nice tree.
1785	Coast live oak (<i>Quercus agrifolia</i>)	51	Good	3 stems. Tree is on knoll outside of property boundary.

* TREE EVALUATION TABLES PREPARED BY: TIMOTHY MILLIKEN CERTIFIED ARBORIST AT LSA ASSOCIATES INC. ON JUNE 1, 2016.

Tree #	Common Name (Species Name)	DBH (inches)	Health Condition	Notes
1701	Aleppo pine (<i>Pinus halepensis</i>)	16	Good	One of three in grove.
1702	Aleppo pine (<i>Pinus halepensis</i>)	22	Good	One of three in grove.
1703	Aleppo pine (<i>Pinus halepensis</i>)	28	Good	One of three in grove.
1704	Coast live oak (<i>Quercus agrifolia</i>)	4	Good	On the fence line.
1705	Coast live oak (<i>Quercus agrifolia</i>)	5	Good	On other side of fence.
1706	Coast live oak (<i>Quercus agrifolia</i>)	5	Good	On the fence line.
1707	Coast live oak (<i>Quercus agrifolia</i>)	9	Good	On other side of fence.
1708	Coast live oak (<i>Quercus agrifolia</i>)	10	Good	On the fence line.
1709	California bay (<i>Umbellularia californica</i>)	200	Good	8 stems. Fairly typical for a wildland tree. Part of larger grove of bays growing in and around rock outcrop. Full canopy.
1710	California bay (<i>Umbellularia californica</i>)	60	Good	7 stems.
1711	California bay (<i>Umbellularia californica</i>)	60	Good	8 stems. Fairly typical for a wildland tree. Part of larger grove of bays growing in and around rock outcrop. Full canopy.
1712	California bay (<i>Umbellularia californica</i>)	90	Good	Many stems. One broken branch.
1713	California bay (<i>Umbellularia californica</i>)	48	Good	Giant tree with full canopy. Some rot in branches. These bays are irreplaceable and are a great asset to the property.
1714	California bay (<i>Umbellularia californica</i>)	48	Good	Asymmetric canopy normal for tree in grove setting. All trees bay trees are dependent on one another.
1715	Coast live oak (<i>Quercus agrifolia</i>)	15	Good	On other side of fence.
1716	Blue gum (<i>Eucalyptus globulus</i>)	52	Fair	Large tree with asymmetric canopy.
1717	Blue gum (<i>Eucalyptus globulus</i>)	24	Fair	Suppressed tree with rot in trunk.
1718	Blue gum (<i>Eucalyptus globulus</i>)	20	Fair	Dead top.
1719	Blue gum (<i>Eucalyptus globulus</i>)	32	Fair	Suppressed tree with rot in trunk.
1720	Blue gum (<i>Eucalyptus globulus</i>)	48	Fair	Large tree is typical of all trees in grove; asymmetric crown.
1721	Blue gum (<i>Eucalyptus globulus</i>)	24	Fair	
1722	Blue gum (<i>Eucalyptus globulus</i>)	14	Fair	Cavity in trunk.

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Tree #	Common Name (Species Name)	DBH (inches)	Health Condition	Notes
1723	Blue gum (<i>Eucalyptus globulus</i>)	16	Fair	Cavity in trunk.
1724	Blue gum (<i>Eucalyptus globulus</i>)	16	Fair	
1725	Blue gum (<i>Eucalyptus globulus</i>)	16	Fair	
1726	Blue gum (<i>Eucalyptus globulus</i>)	16	Fair	
1727	Blue gum (<i>Eucalyptus globulus</i>)	48	Fair	
1728	Blue gum (<i>Eucalyptus globulus</i>)	22	Fair	
1729	Blue gum (<i>Eucalyptus globulus</i>)	28	Fair	
1730	Blue gum (<i>Eucalyptus globulus</i>)	12	Fair	
1731	Blue gum (<i>Eucalyptus globulus</i>)	20	Fair	
1732	Blue gum (<i>Eucalyptus globulus</i>)	48	Fair	
1733	Blue gum (<i>Eucalyptus globulus</i>)	10	Fair	
1734	Blue gum (<i>Eucalyptus globulus</i>)	6	Poor	Not protected. DBH < 8 inches. Most of trunk rotten.
1735	Blue gum (<i>Eucalyptus globulus</i>)	18	Fair	Moderately good form considering other trees in grove.
1736	Blue gum (<i>Eucalyptus globulus</i>)	42	Fair	Moderately good form considering other trees in grove.
1737	Blue gum (<i>Eucalyptus globulus</i>)	23	Fair	
1738	Blue gum (<i>Eucalyptus globulus</i>)	22	Fair	
1739	Blue gum (<i>Eucalyptus globulus</i>)	18	Poor	2 stems. Poor form. Half of tree dead.
1740	Blue gum (<i>Eucalyptus globulus</i>)	28	Poor	Leans.
1741	Blue gum (<i>Eucalyptus globulus</i>)	19	Fair	
1742	Blue gum (<i>Eucalyptus globulus</i>)	50	Fair	Leans.
1743	Blue gum (<i>Eucalyptus globulus</i>)	19	Fair	Broken top.
1744	Blue gum (<i>Eucalyptus globulus</i>)	72	Fair	2 stems. Poor form. Half of tree dead.
1745	Blue gum (<i>Eucalyptus globulus</i>)	12	Poor	Poor form. Leans.
1746	Blue gum (<i>Eucalyptus globulus</i>)	36	Fair	
1747	Blue gum (<i>Eucalyptus globulus</i>)	30	Fair	
1748	Blue gum (<i>Eucalyptus globulus</i>)	6	Fair	Not protected. DBH < 8 inches.

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Land Use Entitlements
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1570 Oakland Road
 San Jose, CA 95131

(408) 487-2200
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CAVALLO HIGHLANDS

TRACT 8353

HAYWARD, CA

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NO	DATE	DESCRIPTION
PROJECT NO:		4795.00
CAD DWG FILE:		479500CL.DWG
DESIGNED BY:		BG
DRAWN BY:		JH
CHECKED BY:		BG
DATE:		JANUARY 8, 2019
SCALE:		AS SHOWN
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TREE INVENTORY
 AND TREE
 PROTECTION
 NOTES

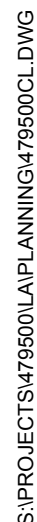


CAVALLO HIGHLANDS
TRACT 8353
HAYWARD, CA

NO	DATE	DESCRIPTION
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CAD DWG FILE:		479500CL.DWG
DESIGNED BY:		BO
DRAWN BY:		JL
CHECKED BY:		BO
DATE:		JANUARY 8, 2011
SCALE:		1" = 2'
© HMM		

LANDSCAPE PLAN

L2.1



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STONE PILASTER, TYPICAL

GOOD NEIGHBOR FENCE, TYPICAL

"DRY COBBLE SWALE", TYPICAL
SEE SHEET L7.2 FOR CONCEPT IMAGE

STREET TREE, TYPICAL

18" HIGH, STONE SEAT WALL,
TYPICAL

9'-0" TALL OVERHEAD STRUCTURE

CONCRETE PAVERS WITH
CONCRETE BAND, TYPICAL

6' LONG BACKED BENCH
(THREE TOTAL)

RETAINING WALL PER CIVIL
ENGINEER, TYPICAL

PROPOSED HILLSIDE PLANTING
CLUSTERS, TYPICAL

MAINTENANCE BAND, TYPICAL

- ALL DISTURBED HILLSIDES SHALL BE REVEGETATED WITH A COMBINATION OF:
- PRIVATE ENCLOSED REAR YARDS - HYDROSEED (NON IRRIGATED)
 - HOA MAINTAINED HILLSIDE
 - HYDROSEED (NON IRRIGATED)
 - PLUS ADDITIONAL 1 GALLON PLANTS (APPROXIMATELY COVERING 10% OF THE AREA)
 - PLANTS SHALL BE PLACED IN NATURAL LOOKING GROUPINGS (LOCATED IN FIELD BY PROJECT LANDSCAPE ARCHITECT)
 - PLANT SPACING SHALL BE RANDOM WITH NO DISTINCTIVE PATTERN.
 - IN ADDITION JUTE NETTING OR COMPOST BLANKET SHALL BE PROVIDED ON ALL SLOPES EXCEEDING 3:1.

SIDEWALK PER CIVIL ENGINEER,
TYPICAL

PEDESTRIAN RATED CONCRETE
PAVERS IN FRONT WALK, TYPICAL

COVERED RAIN CATCHMENT DEVICE
PER CITY REQUIREMENT, TYPICAL

VEHICULAR RATED CONCRETE
PAVERS IN DRIVEWAY, TYPICAL

NOTES:

1. LANDSCAPE STATEMENT: "I HAVE COMPLIED WITH THE CRITERIA OF CITY OF HAYWARD BAY-FRIENDLY WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE AND IRRIGATION DESIGN PLAN."
2. FRONT YARD LANDSCAPE SHALL BE MAINTAINED BY HOME OWNERS ASSOCIATION. REAR ENCLOSED YARDS SHALL BE MAINTAINED BY THE HOMEOWNER.
3. MINIMUM 12" WIDE BAND OF NOIYA COBBLESTONE SHALL BE PROVIDED AROUND OVERFLOW CATCH BASIN OR BUBBLE UP BASIN.
4. ROOT BARRIERS SHALL BE INSTALLED LINEARLY AGAINST THE PAVING EDGE IN ALL INSTANCES WHERE A TREE IS PLANTED WITHIN 7' OF PAVEMENT OR BUILDINGS, AND AS DIRECTED BY THE LANDSCAPE ARCHITECT.
5. SEE SHEET L3.1 FOR PLANT LEGEND AND NOTES.
6. SEE SHEET L3.2 - L3.3 FOR PLANTING DETAILS.
7. SEE SHEET L4.1 FOR HYDROZONE PLAN.
8. SEE SHEET L5.1 IRRIGATION DETAILS.

GRAPHIC SCALE



(In Feet)
1 inch = 20 feet

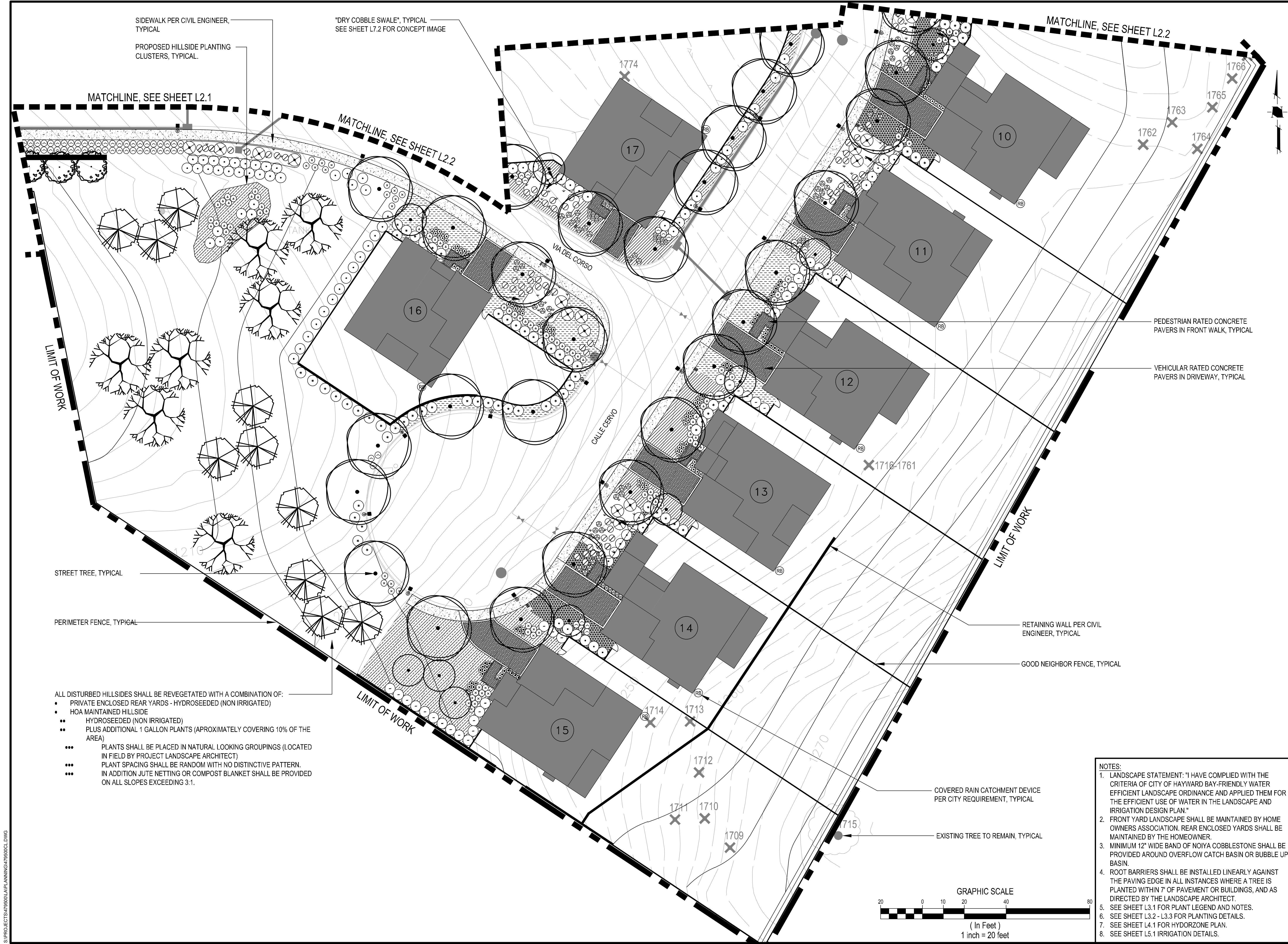
CAVALLO HIGHLANDS TRACT 8353 HAYWARD, CA

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NO	DATE	DESCRIPTION
PROJECT NO.	4795.00	
CAD DWG FILE:	479500CL.DWG	
DESIGNED BY:	BG	
DRAWN BY:	JH	
CHECKED BY:	BG	
DATE:	JANUARY 8, 2019	
SCALE:	1" = 20'	
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LANDSCAPE PLAN

L2.2



SIDEWALK PER CIVIL ENGINEER, TYPICAL

PROPOSED HILLSIDE PLANTING CLUSTERS, TYPICAL.

"DRY COBBLE SWALE", TYPICAL SEE SHEET L7.2 FOR CONCEPT IMAGE

MATCHLINE, SEE SHEET L2.2

MATCHLINE, SEE SHEET L2.1

MATCHLINE, SEE SHEET L2.2

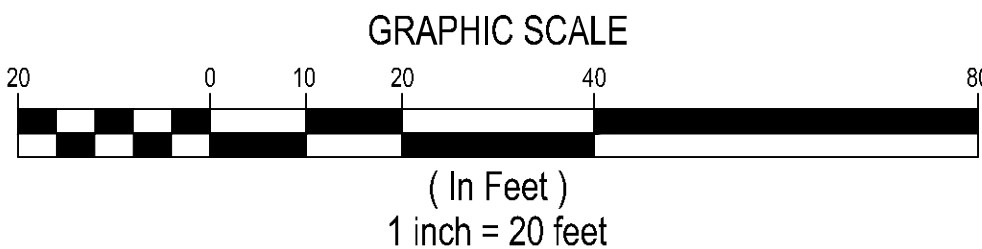
PEDESTRIAN RATED CONCRETE PAVERS IN FRONT WALK, TYPICAL

VEHICULAR RATED CONCRETE PAVERS IN DRIVEWAY, TYPICAL

RETAINING WALL PER CIVIL ENGINEER, TYPICAL

GOOD NEIGHBOR FENCE, TYPICAL

- NOTES:
1. LANDSCAPE STATEMENT: "I HAVE COMPLIED WITH THE CRITERIA OF CITY OF HAYWARD BAY-FRIENDLY WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE AND IRRIGATION DESIGN PLAN."
 2. FRONT YARD LANDSCAPE SHALL BE MAINTAINED BY HOME OWNERS ASSOCIATION. REAR ENCLOSED YARDS SHALL BE MAINTAINED BY THE HOMEOWNER.
 3. MINIMUM 12" WIDE BAND OF NOIYA COBBLESTONE SHALL BE PROVIDED AROUND OVERFLOW CATCH BASIN OR BUBBLE UP BASIN.
 4. ROOT BARRIERS SHALL BE INSTALLED LINEARLY AGAINST THE PAVING EDGE IN ALL INSTANCES WHERE A TREE IS PLANTED WITHIN 7' OF PAVEMENT OR BUILDINGS, AND AS DIRECTED BY THE LANDSCAPE ARCHITECT.
 5. SEE SHEET L3.1 FOR PLANT LEGEND AND NOTES.
 6. SEE SHEET L3.2 - L3.3 FOR PLANTING DETAILS.
 7. SEE SHEET L4.1 FOR HYDORZONE PLAN.
 8. SEE SHEET L5.1 IRRIGATION DETAILS.



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LANDSCAPE PLAN

PLANTING PLAN NOTES

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL PLANT MATERIAL AS SHOWN ON THE DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.

UNLESS DESIGNATED ON THE DRAWINGS OTHERWISE, STRUCTURAL IMPROVEMENTS AND HARDSCAPE SHALL BE INSTALLED PRIOR TO PLANTING OPERATIONS.

PLANT LIST ON THE DRAWINGS SHALL BE USED AS A GUIDE ONLY. CONTRACTOR SHALL TAKEOFF AND VERIFY SIZES AND QUANTITIES BY PLAN CHECK.

A SOIL MANAGEMENT REPORT SHALL BE PROVIDED BY LANDSCAPE CONTRACTOR AND SOIL AMENDMENTS SHALL BE FOLLOWED PER THE REPORT. PHYSICAL COPIES OF THE SOIL MANAGEMENT REPORT SHALL BE PROVIDED TO THE CLIENT, PROJECT LANDSCAPE ARCHITECT AND LOCAL AGENCY AS REQUIRED. THE SOIL MANAGEMENT REPORT SHALL CONFORM TO STATE AB1881 WATER EFFICIENT LANDSCAPE ORDINANCE (WELO) OR LOCAL AGENCY ADOPTED WELO. CONTRACTOR SHALL OBTAIN A SOILS MANAGEMENT REPORT AFTER GRADING OPERATIONS AND PRIOR TO PLANT INSTALLATION.

SAMPLES OF FERTILIZERS, ORGANIC AMENDMENT, SOIL CONDITIONERS, AND SEED SHALL BE SUBMITTED PRIOR TO INCORPORATION. CONTRACTOR SHALL FURNISH TO THE OWNER'S AUTHORIZED REPRESENTATIVE A CERTIFICATE OF COMPLIANCE FOR SUCH FURNISHED MATERIALS.

ALL WORK ON THE IRRIGATION SYSTEM, INCLUDING HYDROSTATIC, COVERAGE, AND OPERATIONAL TESTS AND THE BACKFILLING AND COMPACTION OF TRENCHES SHALL BE PERFORMED PRIOR TO PLANTING OPERATIONS.

LOCATIONS OF PLANT MATERIAL SHALL BE REVIEWED ON SITE BY THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION.

TREES SHALL BE PLANTED NO CLOSER THAN TEN FEET (10') FROM UTILITIES.

ROOT BARRIERS SHALL BE LOCATED LINEARLY AGAINST THE PAVING EDGE IN ALL INSTANCES WHERE A TREE IS PLANTED WITHIN SEVEN FEET OF PAVEMENT OR BUILDINGS AS DIRECTD BY LANDSCAPE ARCHITECT.

ALL PLANTING AREAS TO RECEIVE 3" THICK BARK MULCH LAYER. BARK MULCH SHALL BE LYNOSO SMALL FIR BARK (3/4" TO 1-1/2") OR APPROVED EQUAL.

ALL PLANT MATERIAL SHALL BE SELECTED IN ACCORDANCE WITH THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1) FOR STANDARD FORM TREES, CALIPER SIZE SHALL BE MEASURED 6" ABOVE THE SOIL LINE FOR CALIPERS EQUAL TO OR LESS THAN 4" FOR CALIPERS GREATER THAN 4". CALIPER SHALL BE MEASURES 12" ABOVE THE SOIL LINE. FOR MULTI-TRUNK TREES THE CALIPER SHALL BE ESTABLISHED BY TAKING THE AVERAGE OF THE CALIPER OF THE TWO LARGEST TRUNKS. CALIPER IS MEASURED 6" ABOVE ORIGINATION POINT OF THE SECOND LARGEST TRUNK OR 6" ABOVE GROUND IF ALL TRUNKS ORIGINATE FROM THE SOIL.

CALIPER SIZES STANDARDS:

15 GALLON: 0.75-1.25"

24" BOX: 1.25-2"

36" BOX: 2-3.5"

48" BOX: 3.5-5"

60" BOX: 4-6"

WATER SELECTION CATEGORY BASED ON WUCOLS IV (JANUARY 2014) LANDSCAPE COEFFICIENT METHOD:

CATEGORY PERCENTAGE OF ETo

(H) HIGH: 0.7-0.9

(M) MEDIUM: 0.4-0.6

(L) LOW: 0.1-0.3

(VL) VERY LOW: <0.1

*PLANTS SELECTED FOR HILLSIDE PLANTING WITH TEMPORARY IRRIGATION.

PROPOSED PLANT PALETTE

SYMBOL	BOTANICAL NAME	COMMON NAME	MINIMUM CONTAINER SIZE	HxW	WUCOLS WATER USE
TREES					
	M ACER FREEMANII 'X'AUTUMN BLAZE'	AUTUMN BLAZE MAPLE	24" BOX	60' X 40'	M
	L ARBUTUS 'MARINA'	STRAWBERRY TREE	24" BOX	40' X 40'	L
	L ARBUTUS UNEDO	STRAWBERRY TREE	24" BOX	12 X 12'	L
	VL CERCIS OCCIDENTALIS	WESTERN REDBUD	24" BOX	20' X 20'	VL
	VL OLEA EUROPAEA 'WILSONII'	FRUITLESS OLIVE	24" BOX	30' X 25'	VL
	M PRUNUS CERASIFERA 'PURPLE PONY'	PURPLE PONY CHERRY PLUM	24" BOX	12' X 12'	M
	VL QUERCUS DOUGLASII	BLUE OAK	24" BOX	45' X 40'	VL

SHRUBS AND GRASSES

SYMBOLS REPRESENTING LARGE SHRUBS (48" - 60")		ANIGOZANTHOS 'YELLOW GEM'	YELLOW RED KANGAROO PAW	1 GALLON	3' X 3'	L
		* ARBUTUS UNEDO 'COMPACTA'	COMPACT STRAWBERRY TREE	1 GALLON	8' X 8'	L
		BERBERIS THUNBERGII	JAPANESE BARBERRY	1 GALLON	5' X 5'	M
		BUXUS JAPONICA 'GREEN BEAUTY'	GREEN BEAUTY BOXWOOD	1 GALLON	5' X 5'	M
SYMBOLS REPRESENTING MEDIUM SHRUBS (24" - 48")		CARPENTERIA CALIFORNICA	BUSH ANEMONE	5 GALLON	5' X 7'	M
		* CEANOTHUS 'DARK STAR'	DARK STAR CEANOTHUS	1 GALLON	5' X 6'	L
		CISTUS X HYBRIDUS	WHITE ROCKROSE	1 GALLON	5' X 5'	L
		DIETES BICOLOR	FORTNIGHT LILY	1 GALLON	2' X 2'	L
SYMBOLS REPRESENTING SMALL SHRUBS (18" - 24")		ECHINACEA PURPUREA	PURPLE CONEFLOWER	1 GALLON	4' X 2'	M
		HELICOTTRICHON SEMPERVIRENS	BLUE OAT GRASS	1 GALLON	2' X 2'	L
		LAVANDULA ANGUSTIFOLIA 'MISS MUFFET'	ENGLISH LAVANDER 'MISS MUFFET'	1 GALLON	3' X 3'	L
		LEUCADENDRON DISCOLOR	CONE BUSH	1 GALLON	6' X 6'	L
SYMBOLS REPRESENTING SMALL SHRUBS (18" - 24")		* PHLOMIS FRUTICOSA	JERUSALEM SAGE	1 GALLON	4' X 4'	L
		PHORMIUM 'ED CARMEN'	NEW ZEALAND FLAX	1 GALLON	3' X 3'	L
		POLYSTICHUM MUNITUM	WESTERN SWORD FERN	1 GALLON	3' X 3'	M
		* ROSMARINUS OFFICINALIS	ROSEMARY	1 GALLON	4' X 4'	L
SYMBOLS REPRESENTING SMALL SHRUBS (18" - 24")		* SALVIA PACHYPHYLLA	BLUE SAGE	1 GALLON	3' X 3'	L
		* SALVIA SPATHACEA	HUMMINGBIRD SAGE	1 GALLON	2' X 4'	L
		* STIPA PULCHRA	PURPLE NEEDLE GRASS	1 GALLON	3' X 2'	VL

GROUNDCOVER

					HxW (SPACING)
	* ARCTOSTAPHYLOS	'EMERALD CARPET' - CARPET MANZANITA	1 GALLON	1' X 5' (SPACED 4' O.C.)	M
	* CEANOTHUS 'CENTENNIAL'	CENTENNIAL CEANOTHUS	1 GALLON	2' X 10' (SPACED 8' O.C.)	L
	ERIGERON KARVINSKIANUS	SANTA BARBARA DAISY	1 GALLON	1' X 3' (SPACED 3' O.C.)	L
	JUNIPERUS HOTIZONTALIS' BLUE CHIP'	CREEPING JUNIPER	1 GALLON	1' X 8' (SPACED 7' O.C.)	L
	LANTANA MONTEVIDENSIS	TRAILING LANTANA	1 GALLON	1' X 5' (SPACED 4' O.C.)	L
	LAVANDULA ANGUSTIFOLIA	ENGLISH LAVANDER	1 GALLON	2' X 2' (SPACED 2' O.C.)	L

BIO-TREATMENT

	CHONDROPETALUM TECTORUM	SMALL CAPE RUSH	1 GALLON	3' X 3'	L
	FESTUCA CALIFORNIA	CALIFORNIA FESCUE	1 GALLON	3' X 2'	L
	JUNCUS PATENS	BLUE RUSH	1 GALLON	2' X 2' (SPACED 4' O.C.)	L
	SALVIA CLEVELANDII	BLUE SAGE	1 GALLON	5' X 5'	L

Land Use Entitlements
Land Planning
Landscape Architecture
Civil Engineering
Utility Design
Land Surveying
Stormwater Compliance

1570 Oakland Road
San Jose, CA 95131

(408) 487-2200
HMHca.com

CAVALLO HIGHLANDS

TRACT 8353

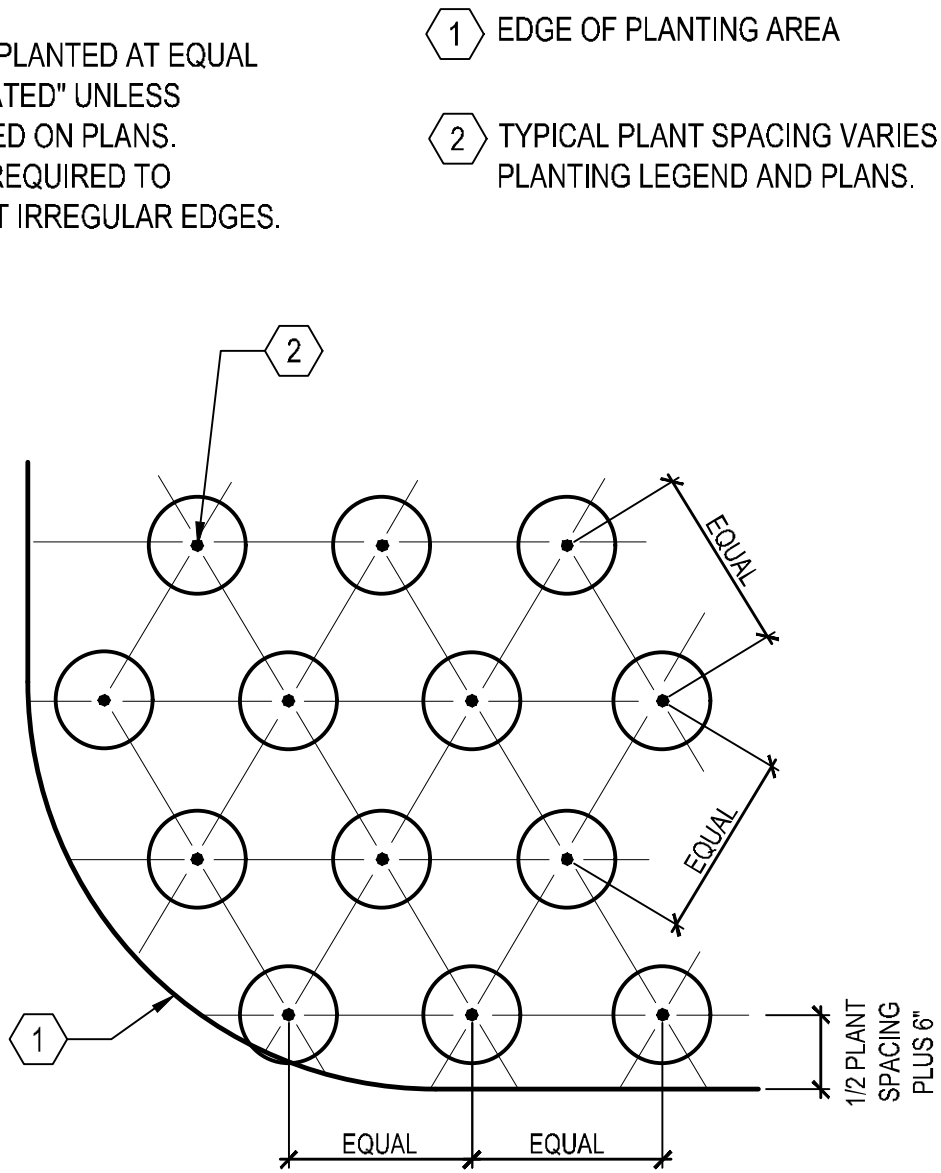
HAYWARD, CA

NO	DATE	DESCRIPTION
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CAD DWG FILE:		479500CCLDWG
DESIGNED BY:		BG
DRAWN BY:		JH
CHECKED BY:		BG
DATE:		JANUARY 8, 2019
SCALE:		NOT TO SCALE
© HMH		

PLANTING
LEGEND AND
NOTES

L3.1

NOTES:
1. ALL PLANTS TO BE PLANTED AT EQUAL SPACING "TRIANGULATED" UNLESS OTHERWISE INDICATED ON PLANS.
2. INFILL PLANTS AS REQUIRED TO MAINTAIN SPACING AT IRREGULAR EDGES.

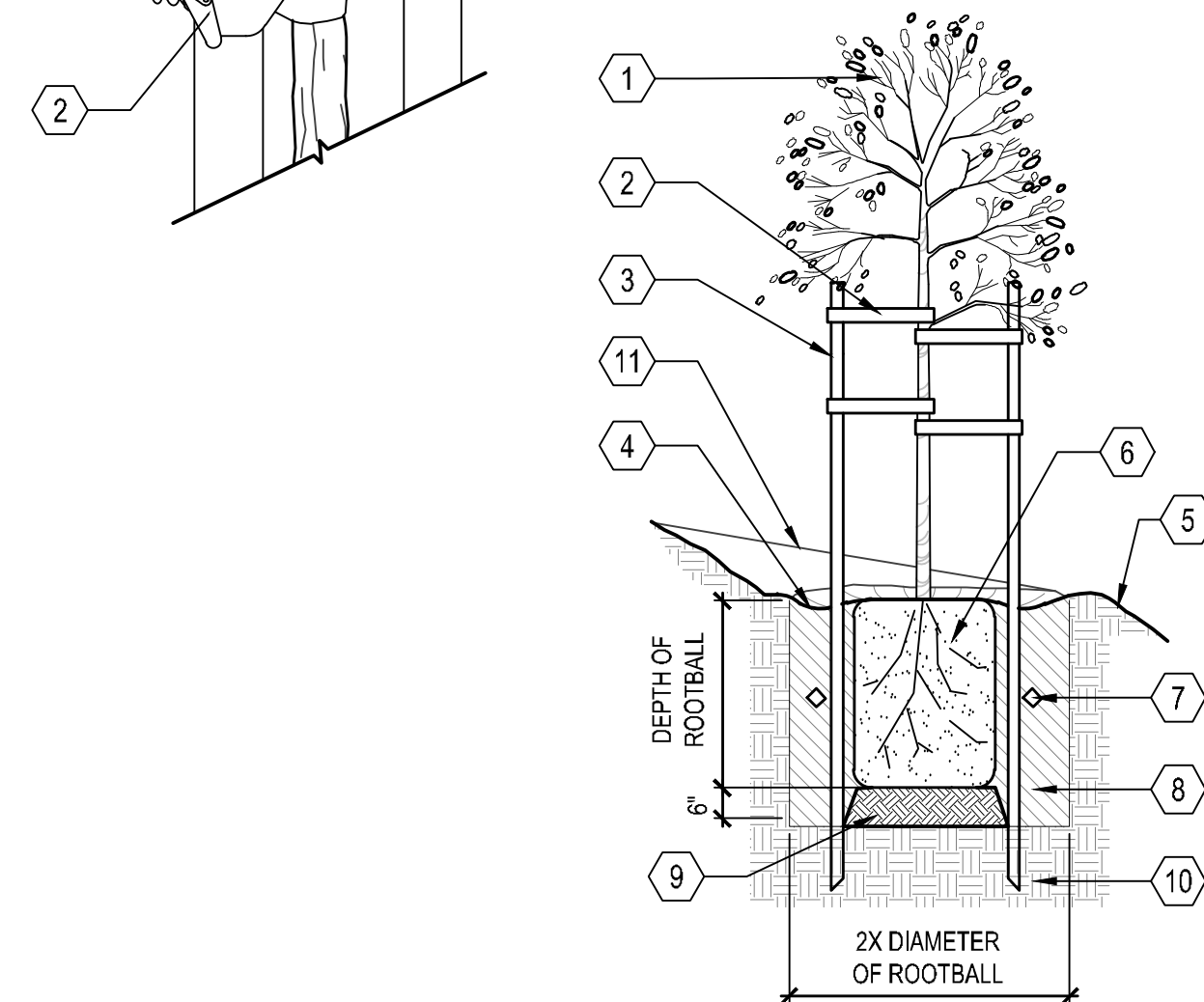
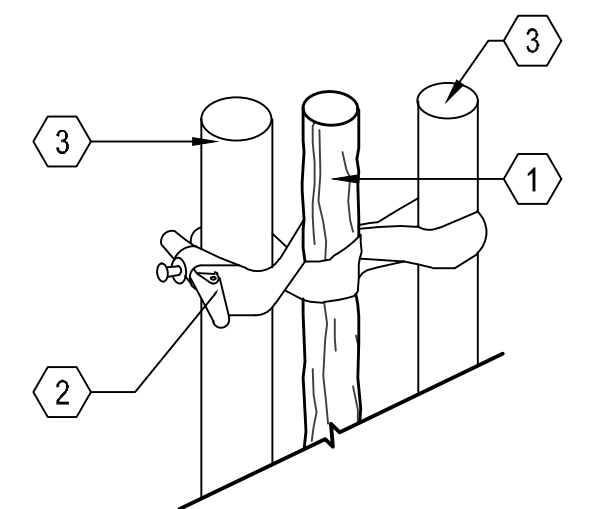
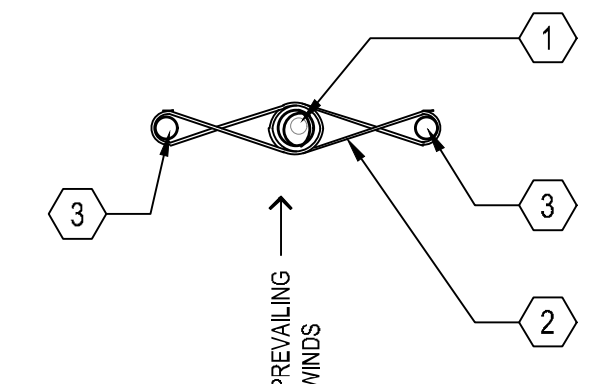


E GROUNDCOVER SPACING

SCALE: N.T.S.

NOTES:
1. SEE PLANTING SPECIFICATIONS PRIOR TO INSTALLATION OF PLANT MATERIALS.
2. THIS DETAIL APPLIES TO 15 GALLON, 24" AND 36" BOX TREES.
3. ROOTBALL CROWN TO EXTEND 1" ABOVE FINISH GRADE.
4. TREES INSTALLED WITHIN TURF AREAS SHALL BE INSTALLED WITH 'ARBOR-GARD' AT BASE OF TRUNK.

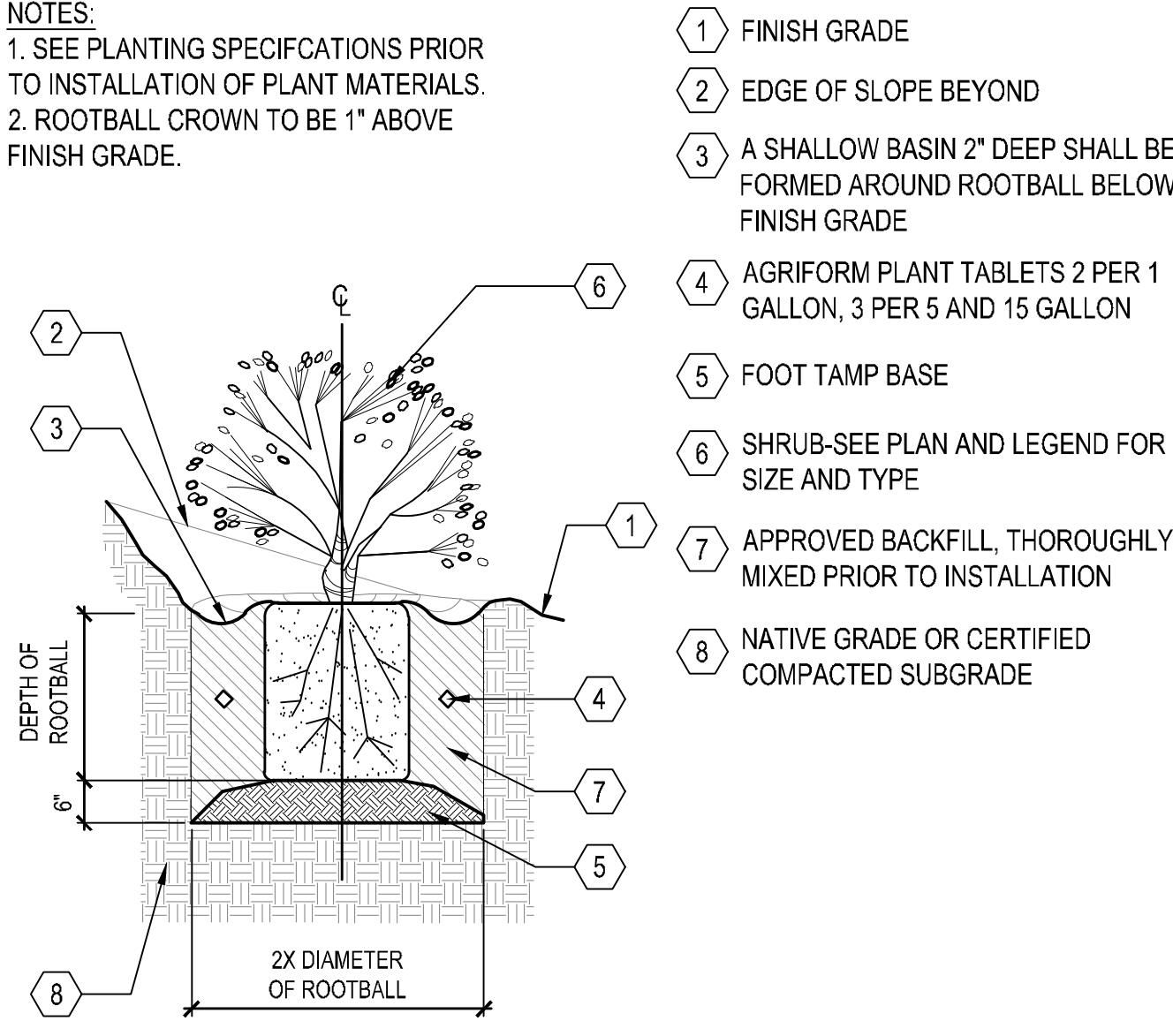
- 1 TREE-SEE PLAN FOR SIZE AND TYPE
- 2 CINCH TIE OR APPROVED EQUAL
- 3 2" DIAMETER TREATED LODGE POLE PINE STAKE PLACED ON WINDWARD SIDES OF TREE, AND OUTSIDE OF ROOTBALL
- 4 A SHALLOW BASIN 2" DEEP SHALL BE FORMED AROUND ROOTBALL BELOW FINISH GRADE. TREES PLANTED IN TURF SHALL NOT HAVE BASINS.
- 5 FINISH GRADE
- 6 ROOTBALL
- 7 AGRIFORM PLANT TABLETS 3 PER 15 GALLON, 6 PER 24" BOX AND 8 FOR 36" BOX
- 8 APPROVED BACKFILL, THOROUGHLY MIXED PRIOR TO INSTALLATION. PUDDLE AND SETTLE PRIOR TO PLANTING TREE.
- 9 FOOT TAMP BASE
- 10 NATIVE GRADE OR CERTIFIED COMPACTED SUBGRADE
- 11 EDGE OF SLOPE BEYOND



F TREE STAKING SLOPE (DOUBLE)

SCALE: N.T.S.

NOTES:
1. SEE PLANTING SPECIFICATIONS PRIOR TO INSTALLATION OF PLANT MATERIALS.
2. ROOTBALL CROWN TO BE 1" ABOVE FINISH GRADE.

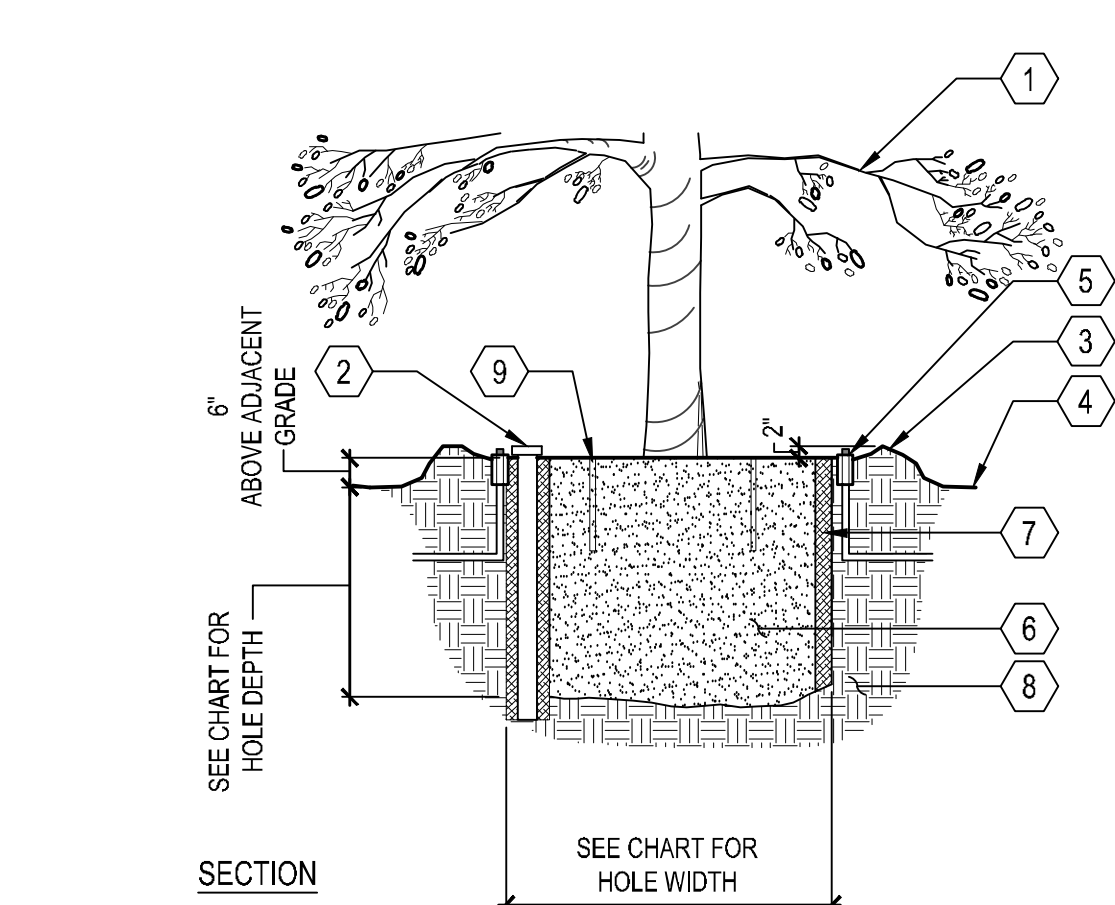
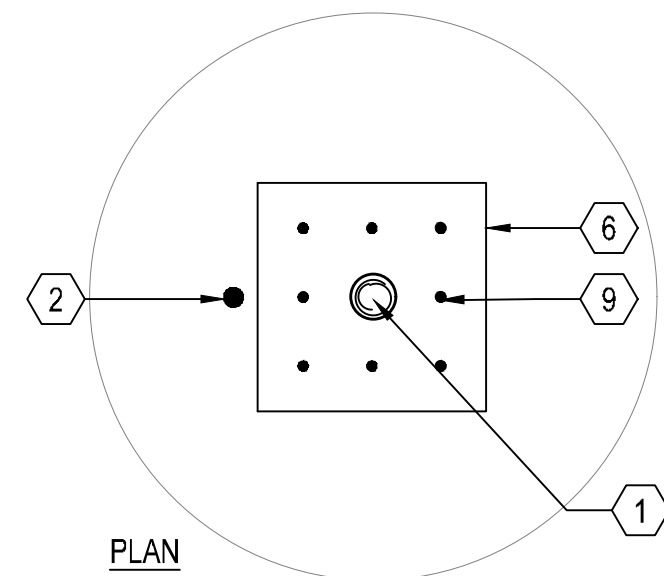


C SHRUB PLANTING ON SLOPE

SCALE: N.T.S.

NOTES:
1. SEE PLANTING SPECIFICATIONS PRIOR TO INSTALLATION OF PLANT MATERIALS.

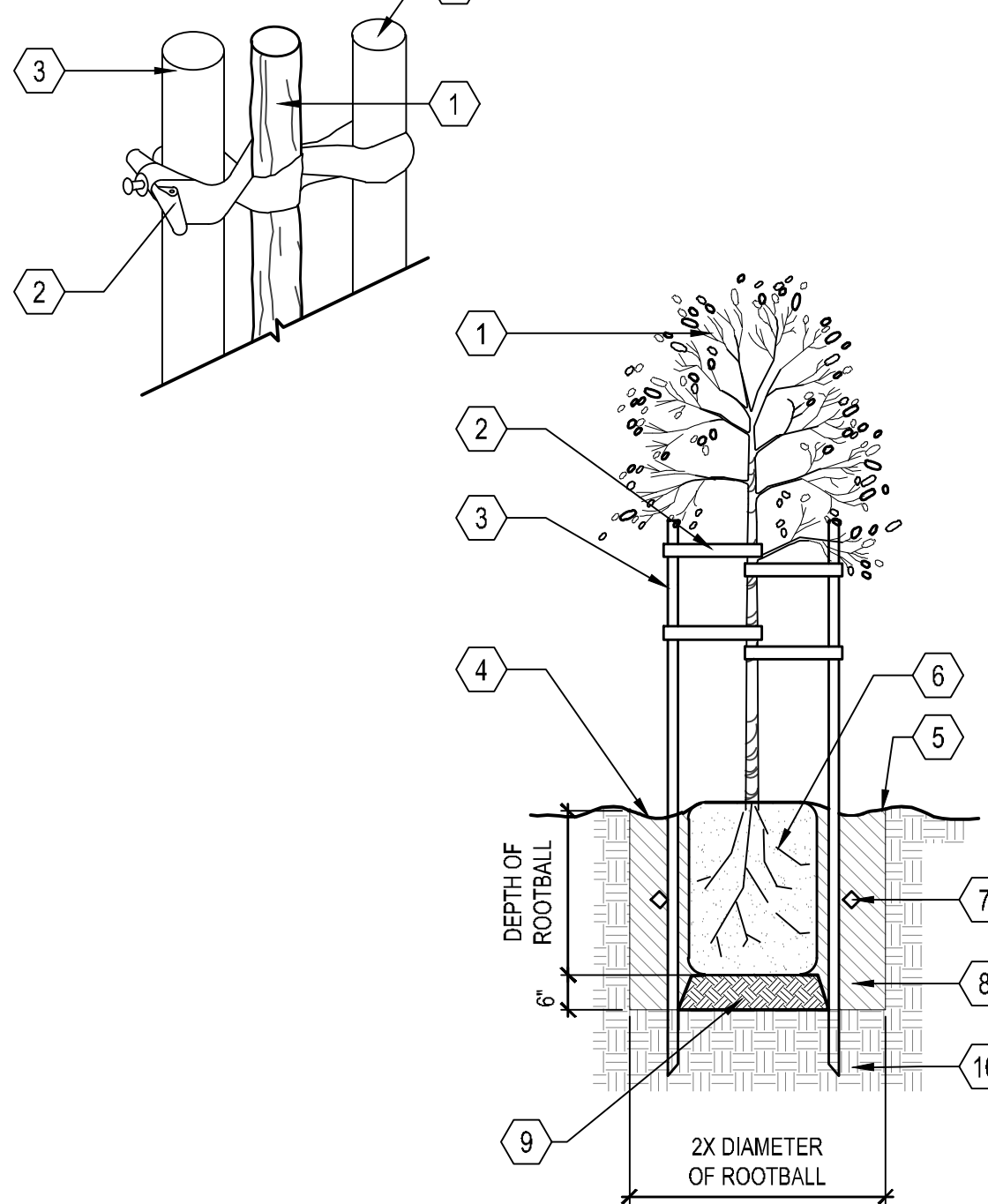
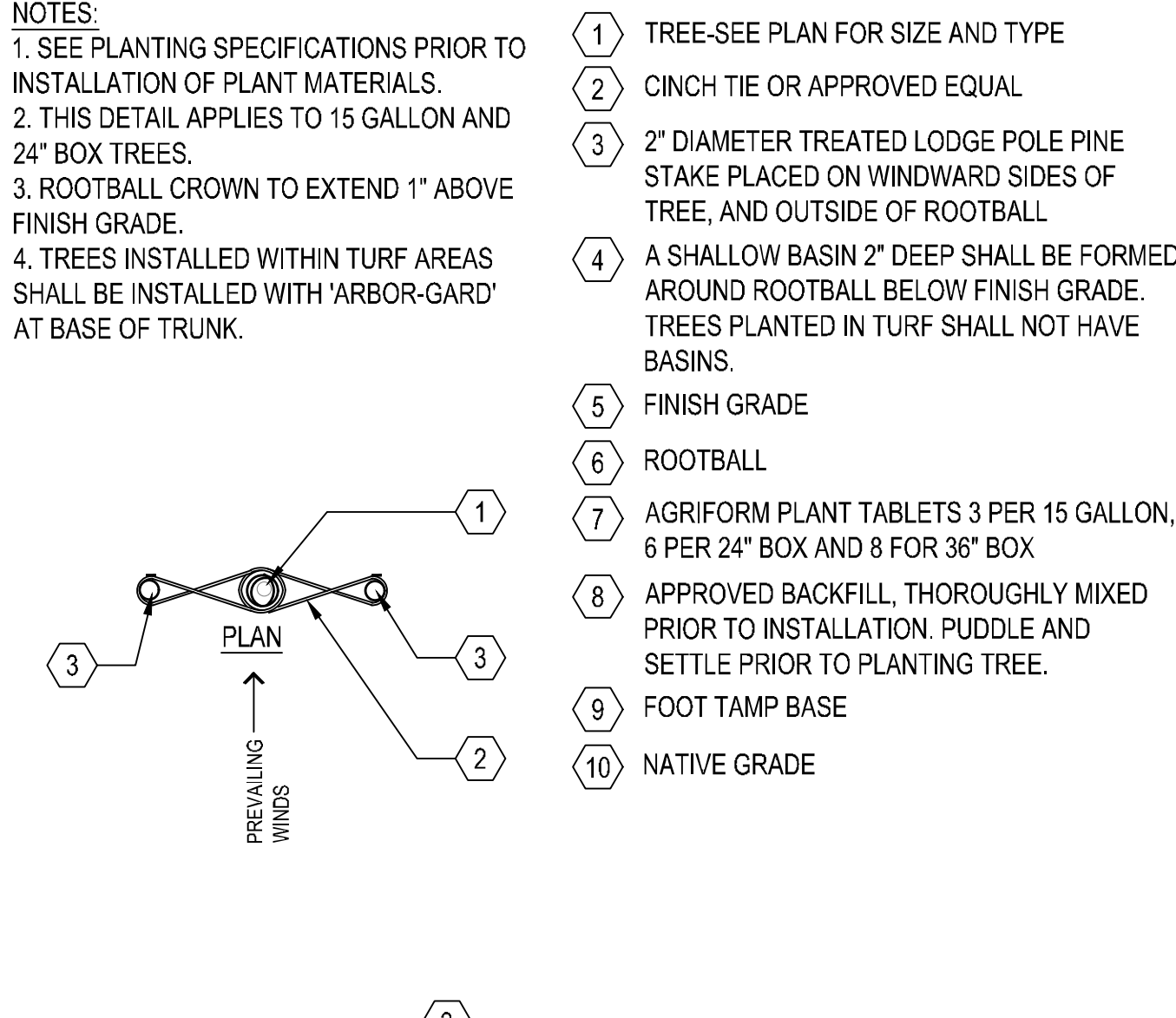
HOLE SIZING CHART					
BOX SIZE	24"	36"	48"	54"	60"
HOLE DEPTH	23"	34"	43"	44"	44"
HOLE WIDTH	36"	48"	60"	66"	72"



D OLIVE TREE PLANTING

SCALE: N.T.S.

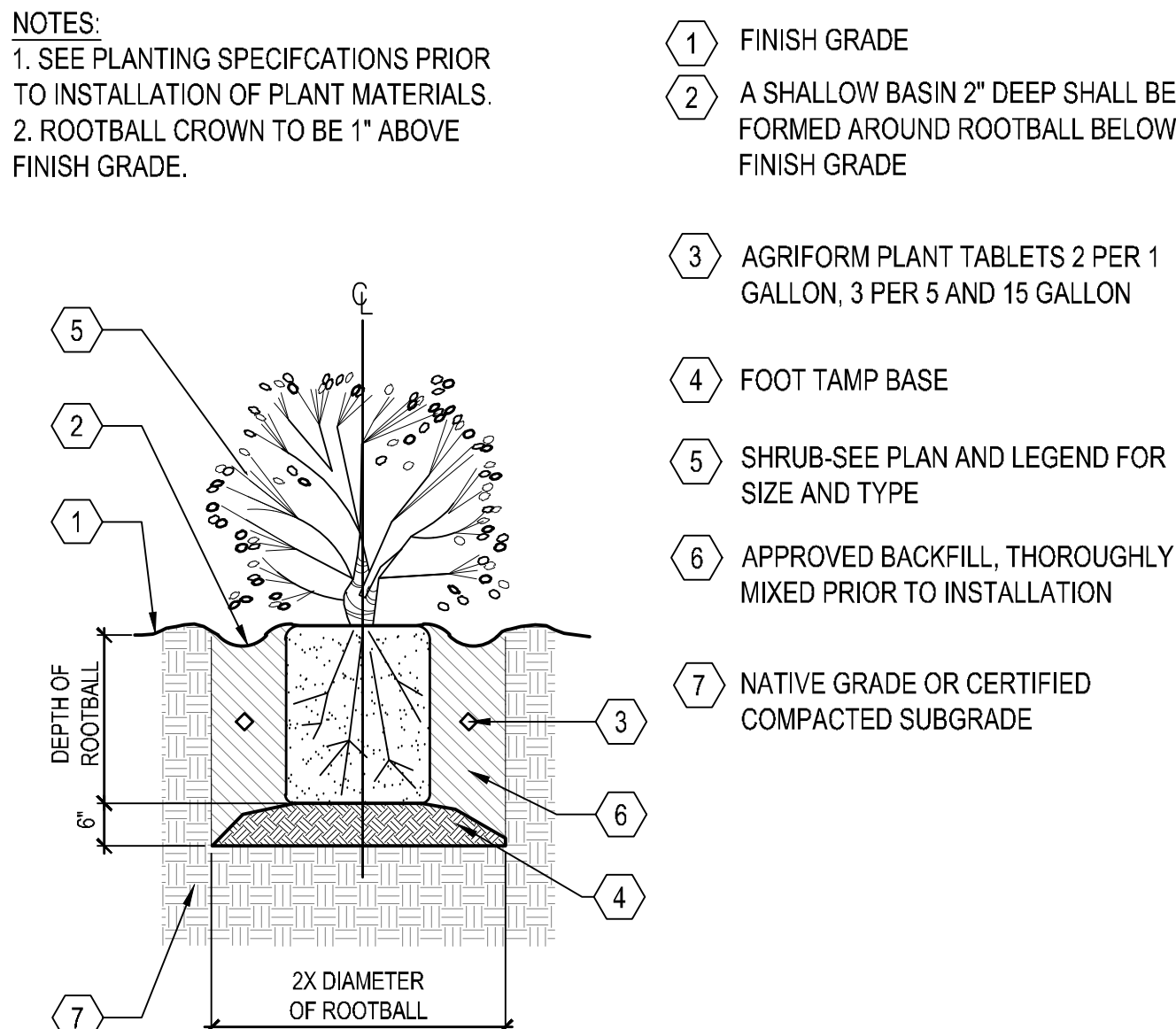
NOTES:
1. SEE PLANTING SPECIFICATIONS PRIOR TO INSTALLATION OF PLANT MATERIALS.
2. THIS DETAIL APPLIES TO 15 GALLON AND 24" BOX TREES.
3. ROOTBALL CROWN TO EXTEND 1" ABOVE FINISH GRADE.
4. TREES INSTALLED WITHIN TURF AREAS SHALL BE INSTALLED WITH 'ARBOR-GARD' AT BASE OF TRUNK.



A TREE STAKING (DOUBLE)

SCALE: N.T.S.

NOTES:
1. SEE PLANTING SPECIFICATIONS PRIOR TO INSTALLATION OF PLANT MATERIALS.
2. ROOTBALL CROWN TO BE 1" ABOVE FINISH GRADE.



B SHRUB PLANTING

SCALE: N.T.S.

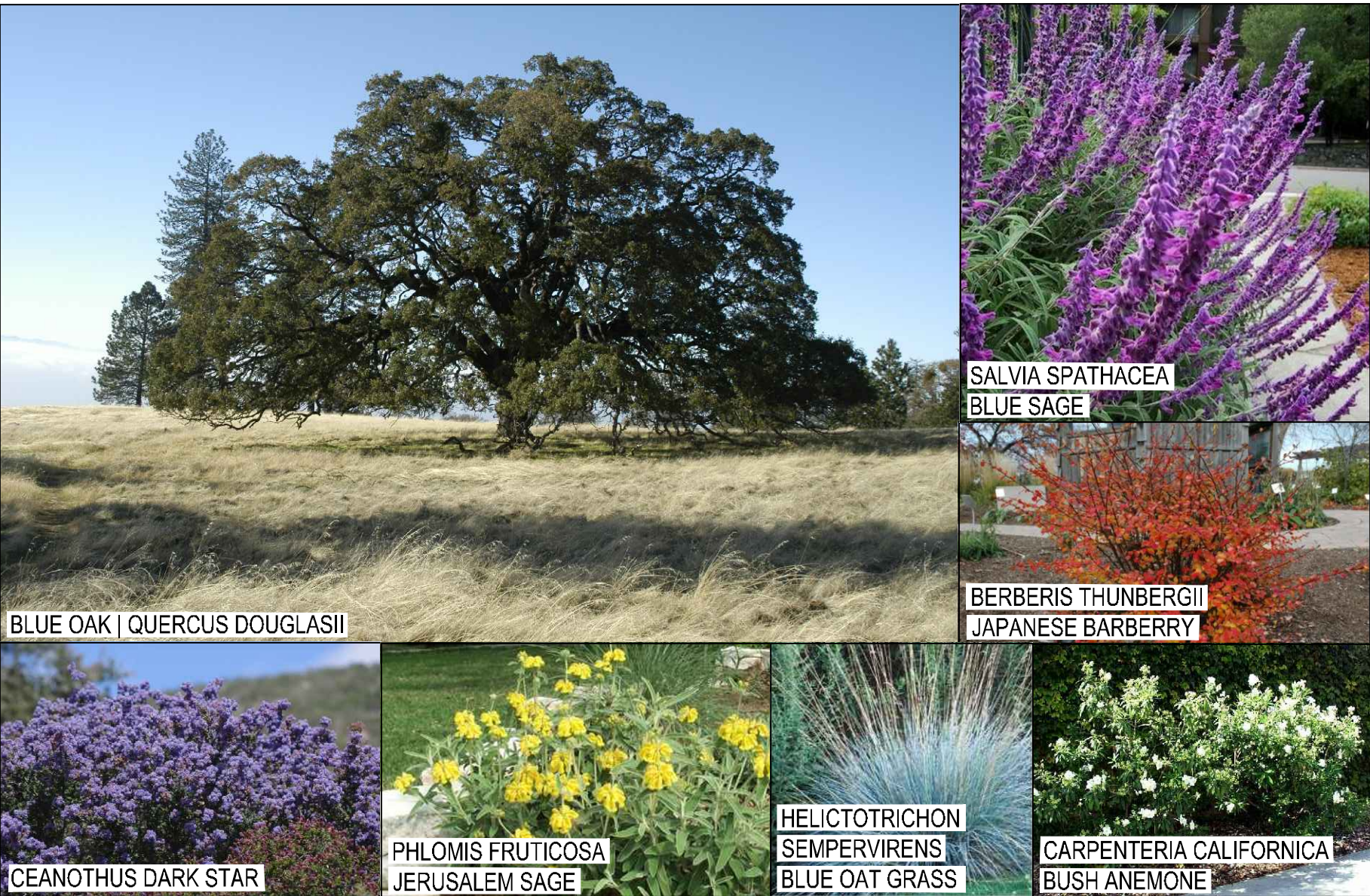
CAVALLO HIGHLANDS

TRACT 8353

HAYWARD, CA

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PLANTING DETAILS



E HILLSIDE PLANTING CLUSTER
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F BIOTREATMENT PLANTING
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F HILLSIDE PLANTING WITH TEMPORARY IRRIGATION
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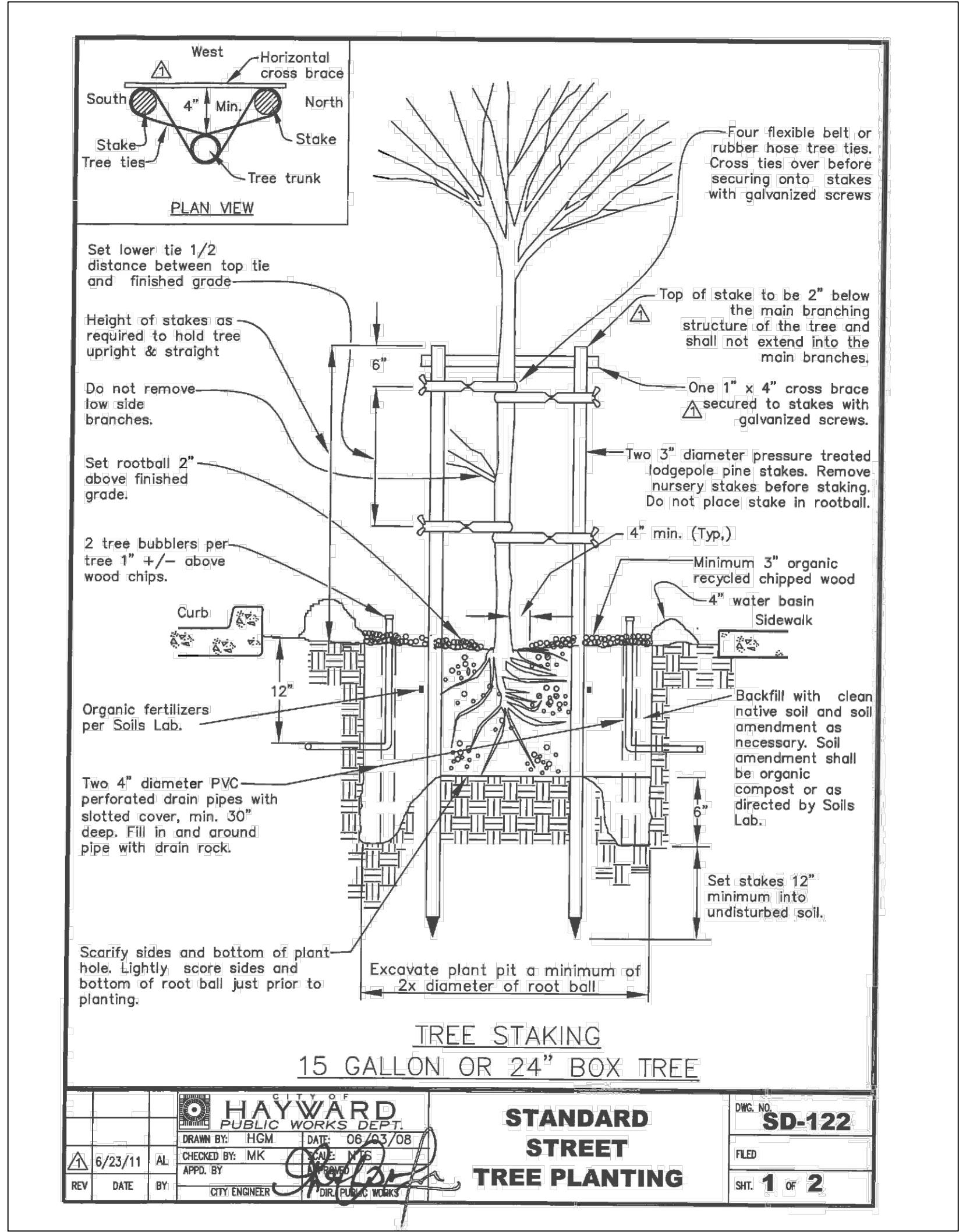
B MULTI TRUNK FRUITLESS OLIVE TREE
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C LAVENDER MASS PLANTING
NTS



D BLUE OAK TREE
NTS

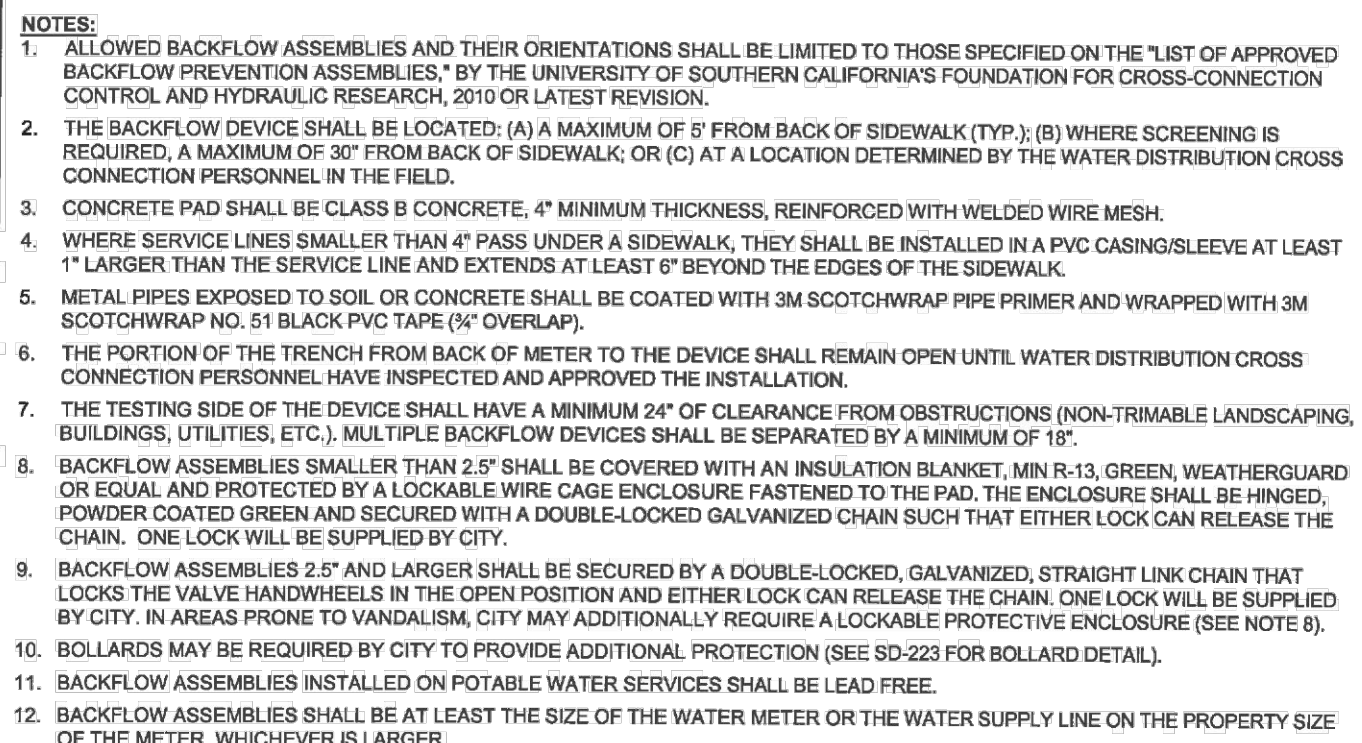


A HILLSIDE PLANTING CLUSTER
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CAVALLO HIGHLANDS
TRACT 8353
HAYWARD, CA

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PLANTING DETAILS



STANDARD - REDUCED PRESSURE PRINCIPAL BACKFLOW PREVENTION ASSEMBLIES

- 1 VALVE BOX (CARSON 910-12B)
OR EQUAL W/ GREEN LID
- 2 FINISHED GRADE/ BEFORE
PLANTING
- 3 GATE VALVE. SEE LEGEND FOR
MAKE AND MODEL LINE SIZE
- 4 SCH 40 PVC MALE ADAPTOR
- 5 PVC SCH 40 MIN 8" LONG
- 6 PVC 45 FITTING SCH 40 (TYP.)
- 7 PVC SCH 40
- 8 2 X 4 REDWOOD BLOCK (TYP.) 2
PLACES
- 9 PVC MAINLINE PIPE
- 10 6 INCH MIN. DEPTH PEA GRAVEL
SLUMP



- 1 POSITION BUBBLER OVER ROOT BALL
- 2 FLOOD BUBBLER NOZZLE (SEE LEGEND FOR MODEL) SECURED TO SHRUB ADAPTER
- 3 UV RADIATION RESISTANT 1/2" PVC SCHED 40 (MIPT X SLIP) MALE ADAPTER

- 4 TUBING STAKES PVC COATED 12 GAUGE WIRE U STAKES QUANTITY AS NEEDED TO SECURE TUBING (2 MINIMUM) SALCO OR EQUAL
- 5 I.P.S. FLEXIBLE SCH 40 PVC HOSE (BLACK)
- 6 SOIL RING (SEE PLANTING DETAILS)
- 7 FINISHED GRADE
- 8 1/2" PVC SCH 40 (MIPT X SLIP) MALE ADAPTER UV RADIATION RESISTANT

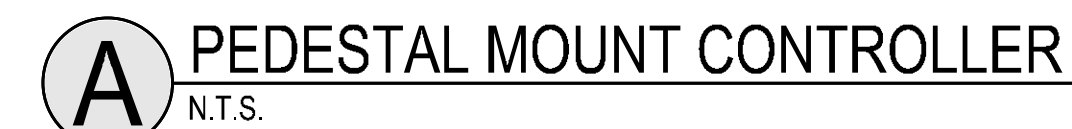


- 9 PVC SCH 40 TEE OR 3/4" X 3/4" X 1/2" (SLIP X FIPT)
- 10 PVC LATERAL PIPE
- 11 MULCH PER SPECIFICATIONS
- 12 PLANT CROWN
- 13 ROOT BALL

- 1 DRIPLINE AUTOMATIC FLUSH VALVE
PLUMBED TO FLUSH MANIFOLD AT
LOW POINT
- 2 PVC FLUSH MANIFOLD
- 3 DRIPLINE MANIFOLD-TO-ELBOW
CONNECTION
- 4 DRIPLINE MANIFOLD-TO-TEE
CONNECTION
- 5 DRIPLINE OPERATION INDICATOR
- 6 REMOTE CONTROL VALVE WITH
FILTER AND PRESSURE REGULATOR
- 7 PVC SUPPLY MANIFOLD
- 8 ZONE PERIMETER
- 9 DRIPLINE LATERAL
- 10 AIR/VACUUM RELIEF LATERAL
DRIPLINE BLANK TUBING CENTERED
ON MOUND OR BERM
- 11 DRIPLINE AIR/VACUUM RELIEF VALVE
PLUMBED TO DRIPLINE BLANK
TUBING AT EACH HIGH POINT
- 12 PERIMETER LATERALS 2" TO 4" FROM
EDGE



- 1 FINISHED GRADE
- 2 2-1" PVC CONDUITS FOR 120 VOLT A.C. AND SIGNAL WIRE IRRIGATION CONTROLLER-SEE IRRIGATION LEGEND FOR SPECIFICATION
- 4 24 VOLT CONTROL WIRING
- 5 CONCRETE PAD-6" THICK (MIN.) EXTEND 6" BEYOND EACH SIDE AND BACK AND 24" IN FRONT
- 6 GROUND WIRE
- 7 4" PVC SWEEP ELL ROUND
- 8 PLASTIC VALVE BOX SEE SPECIFICATIONS FOR TYPE
- 9 8' LONG COPPER GROUND ROD



- | | | | |
|---|--|----|--|
| 1 | 10" ROUND PLASTIC VALVE BOX WITH BOLT DOWN LID | 6 | PVC MAINLINE |
| 2 | FINISHED GRADE | 7 | MAINLINE FITTING |
| 3 | 3/4" CRUSHED ROCK, 6" MIN. DEPTH | 8 | 10" LONG SCH 80 PVC THREADED NIPPLE |
| 4 | 3" LONG SCHEDULE 80 PVC THREADED NIPPLE | 10 | QUICK COUPLING VALVE |
| 5 | SCH 80 PVC THREADED 90 DEGREE ELL | 11 | 11 1/4" x 1 1/4" x 3/16" ANGLE IRON 30" LONG, 2 STAINLESS STEEL STRAPS |



- 18" LENGTH EXPANSION LOOP
- SCOTCH LOK #3577 CONNECTOR SEALING PACK OR EQUAL
- ID TAG FOR VALVE STATION NUMBER
- VALVE BOX (CARSON 910-12B) OR EQUAL
- TOP OF MULCH
- REMOTE CONTROL VALVE: SEE IRRIG. LEGEND
- PVC SCH 80 NIPPLE (CLOSE)
- PVC SCH 40 MIN 8" LONG
- PVC 45 FITTING SCH 40
- PVC SCH 40
- S X S FITTING
- PVC MAINLINE PIPE
- 6" MIN. DEEP PEA GRAVEL SUMP
- LATERAL LINE CL 200 PVC
- BRICK-1 PER CORNER, 4 TOTAL



IRRIGATION DETAILS

[illegible]

^c**Irrigation Efficiency**
0.75 for spray head
0.81 for drip

***MAWA (Annual Gallons Allowed) =**
(Eto) (0.62) [(ETAF x LA) + ((1-ETAF) x SLA)]
 where 0.62 is a conversion factor that converts acre-inches per acre per year to gallons per square foot per year, LA is the total landscape area in square feet, SLA is the total special landscape area in square feet, and ETAF is .55 for residential areas and 0.45 for non-residential areas.

Total ETAF x Area	(B+D)
Total Area	(A+C)
Sitewide ETAF	(B+D) ÷ (A+C)

Total ETAF x Area	(B)	14,609
Total Area	(A)	70,395
Sitewide ETAF	B ÷ A	0.208

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas and 0.45 or below for non-residential areas.

County and City	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Eto
ALAMEDA													
Fremont	1.5	1.9	3.4	4.7	5.4	6.3	6.7	6.0	4.5	3.4	1.8	1.5	47.0
Livermore	1.2	1.5	2.9	4.4	5.9	6.6	7.4	6.5	4.3	3.2	1.5	0.9	47.2
Oakland	1.7	1.5	2.8	3.9	5.1	5.3	6.0	5.5	4.8	3.1	1.4	0.9	41.8
Alameda and Foothills	1.7	1.7	2.7	3.7	5.1	6.4	5.8	4.9	3.6	2.6	1.0	1.0	39.6
Pleasanton	0.8	1.5	2.9	4.4	5.6	6.7	7.4	6.4	4.7	3.3	1.5	1.0	46.2
Union City **	1.4	1.8	3.1	4.2	5.4	5.9	6.4	5.7	4.4	3.1	1.5	1.2	44.2

- 1) California Irrigation Management Information System (CIMIS);
- 2) Reference EvapoTranspiration Zones Map, UC Dept. of Land, Air & Water Resources and California Dept of Water Resources 1999; and
- 3) Reference Evapotranspiration for California, University of California, Department of Agriculture and Natural Resources (1987) Bulletin 1922;
- 4) Determining Daily Reference Evapotranspiration, Cooperative Extension UC Division of Agriculture and Natural Resources (1987), Publication Leaflet 21426

****ETo of Union City shall be used for City of Hayward.**

This certificate is filled out by the project applicant upon completion of the landscape project.

Project Street Address:	Building Permit Number:	
City:	State:	Zip Code:

Property Owner:		Telephone No.:	
Name:		Fax No.:	
Title:		Email Address:	
Company:		Street Address:	
City:	State:	Zip Code:	

Property Owner
 "I/we certify that I/we have received copies of all the documents within the Landscape Documentation Package and the Certificate of Completion and that it is our responsibility to see that the project is maintained in accordance with the Landscape and Irrigation Maintenance Schedule."

Property Owner Signature	Date
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NO	DATE	DESCRIPTION
PROJECT NO:		4795.00
CAD DWG FILE:		479500CL.DWG
DESIGNED BY:		BG
DRAWN BY:		JH
CHECKED BY:		BG
DATE:		JANUARY 5, 2019
SCALE:		AS SHOWN
© HMM		

WATER EFFICIENCY CALCULATIONS

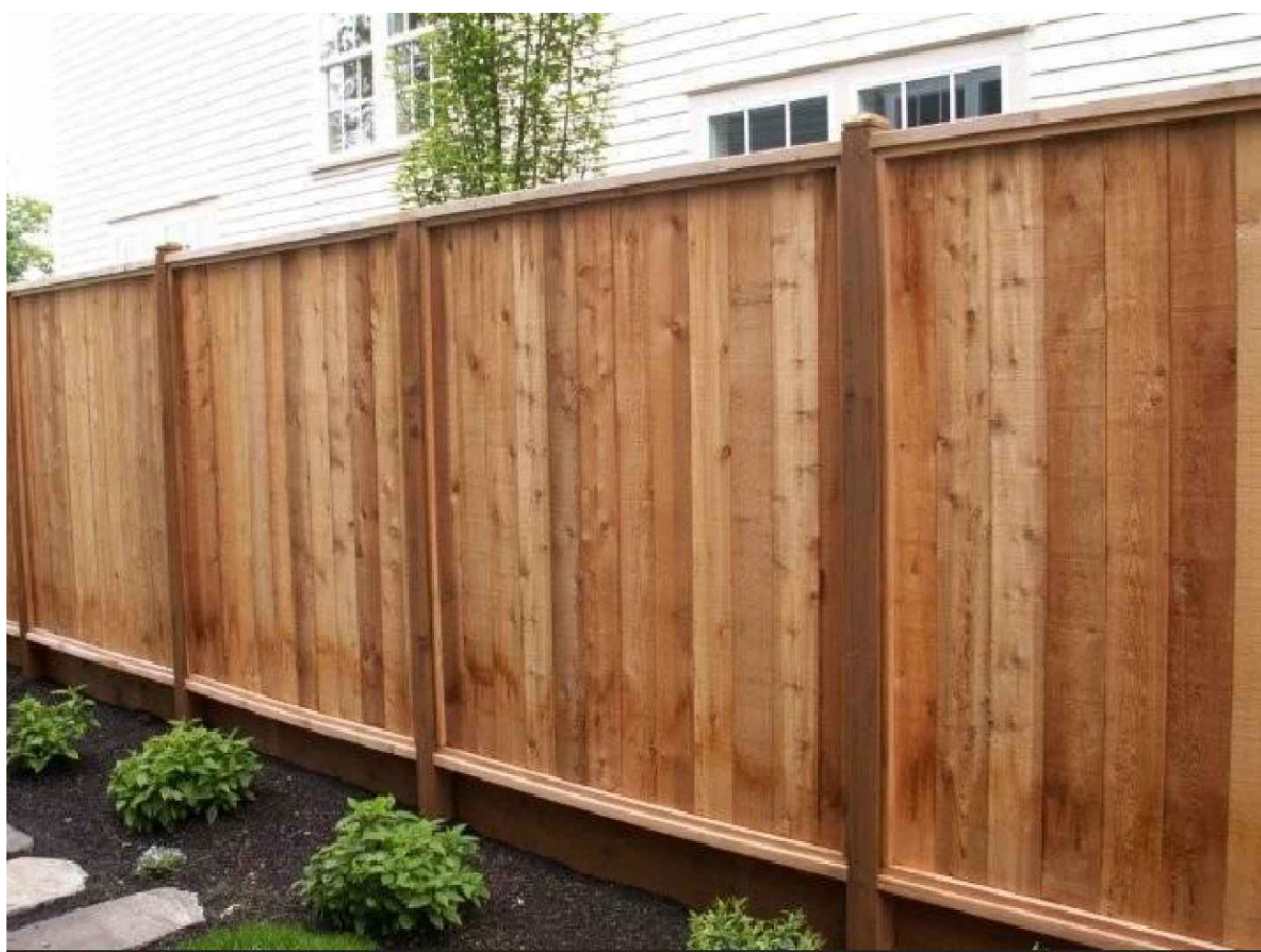
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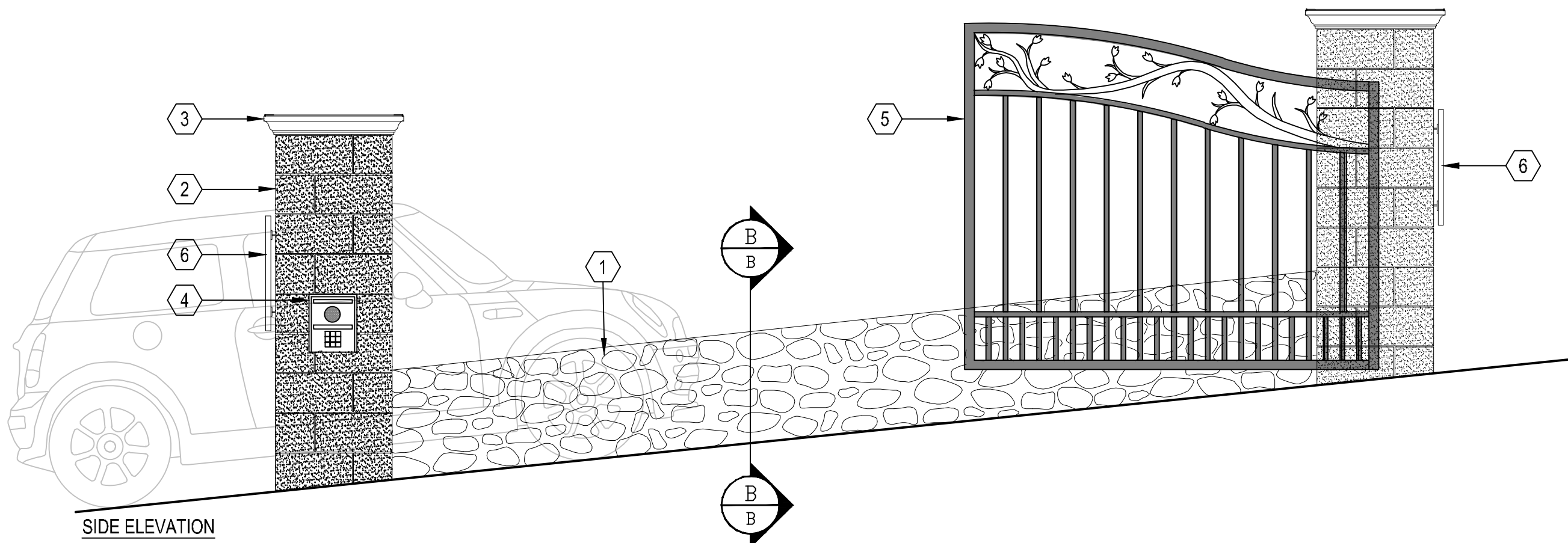
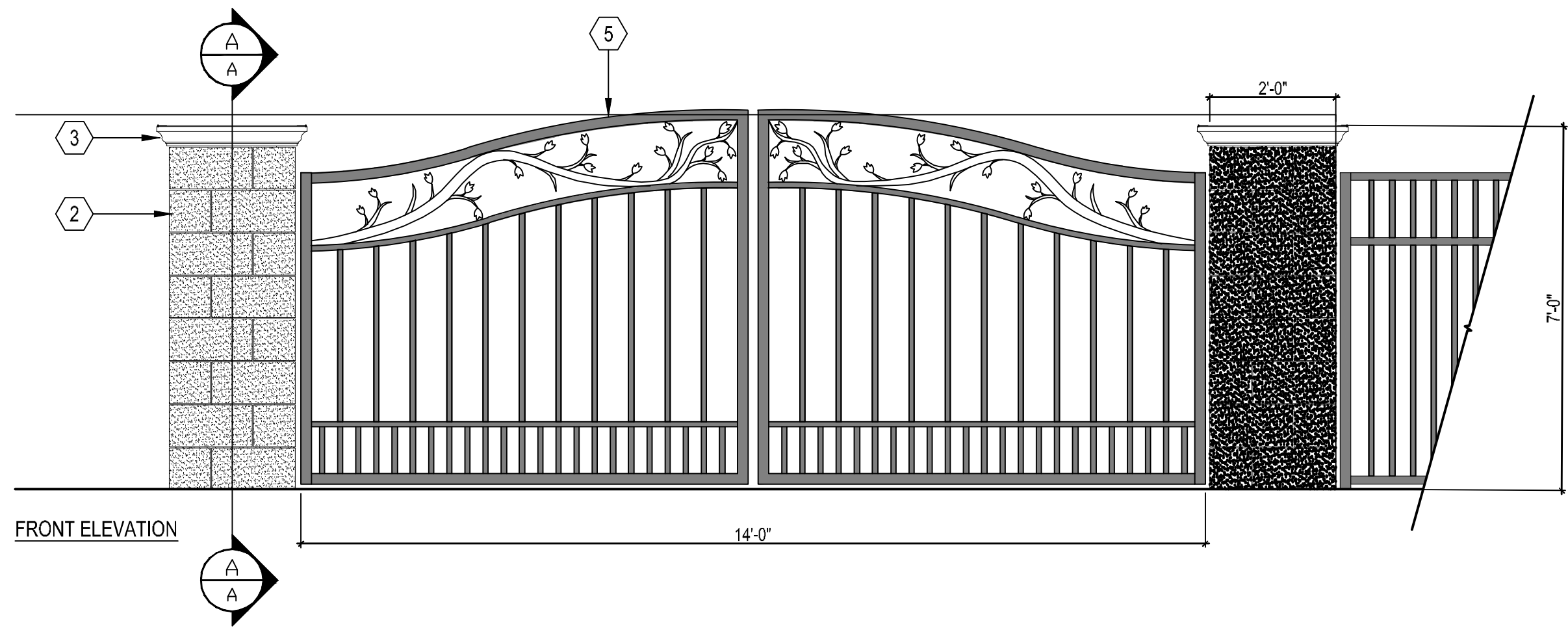
C DECORATIVE STONE WALL
NTS



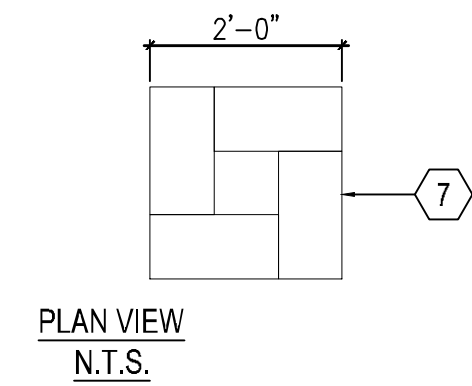
B MAILBOXES (PENDING USPS APPROVAL)
NTS



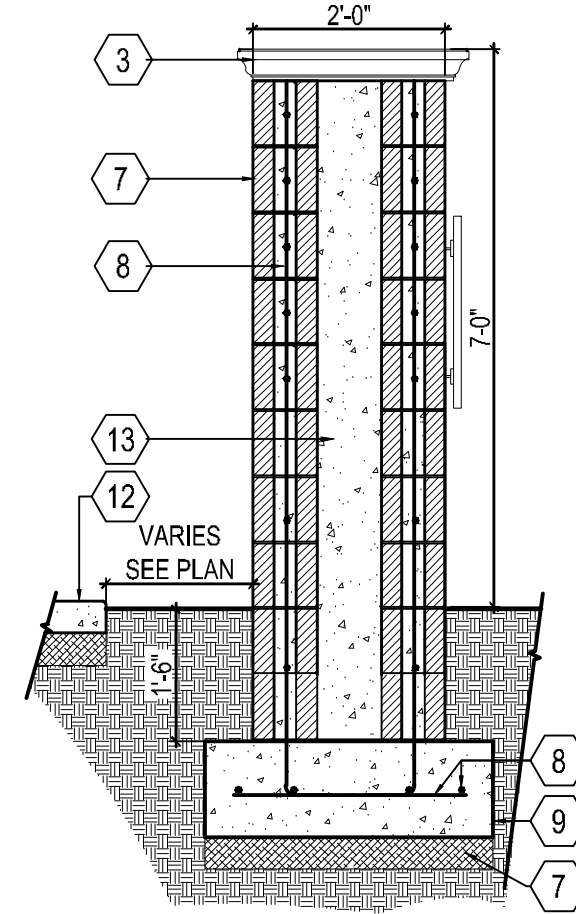
A 6'-0" TALL GOOD NEIGHBOR FENCE (WOOD)
NTS



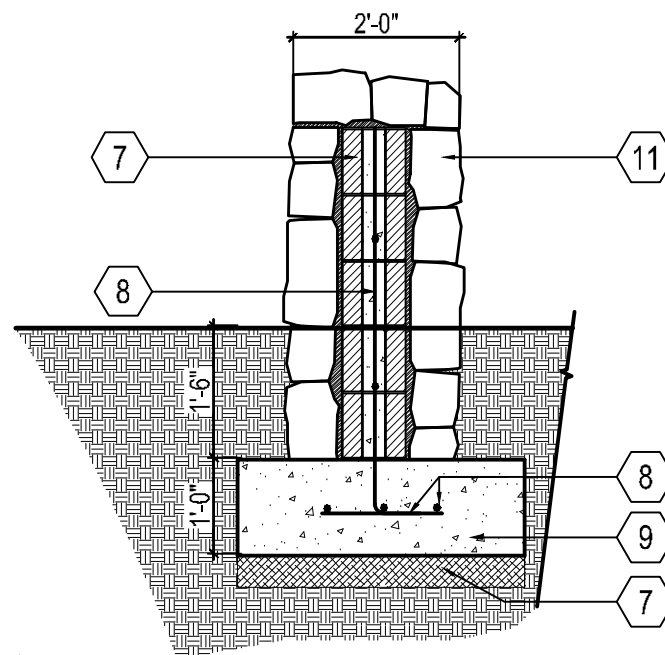
D ENTRY GATE AND PILASTERS
SCALE: 1/2"=1'-0"



PLAN VIEW
N.T.S.



SECTION A-A
(PILASTER)



SECTION B-B
(STONE WALL)

- 1 STONE WALL
- 2 PILASTER
- 3 PILASTER CAP
- 4 CALL BOX AND GATE ACCESS PANEL
- 5 DOUBLE SWING GATE
- 6 DECORATIVE NEIGHBORHOOD ENTRY SIGN PER DEVELOPER
- 7 8X8X16 CONCRETE BLOCK- GROUT ALL CELLS SOLID.
- 8 REBAR
- 9 CONCRETE FOOTING
- 10 4" THICK CLASS 2 AGGREGATE COMPACTED TO 90%
- 11 STONE VENEER
- 12 ADJACENT CONCRETE PAVING
- 13 GROUT SOLID

CAVALLO HIGHLANDS
TRACT 8353
HAYWARD, CA

NO	DATE	DESCRIPTION
1		
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CONCEPT IMAGES

CAVALLO HIGHLANDS

TRACT 8353

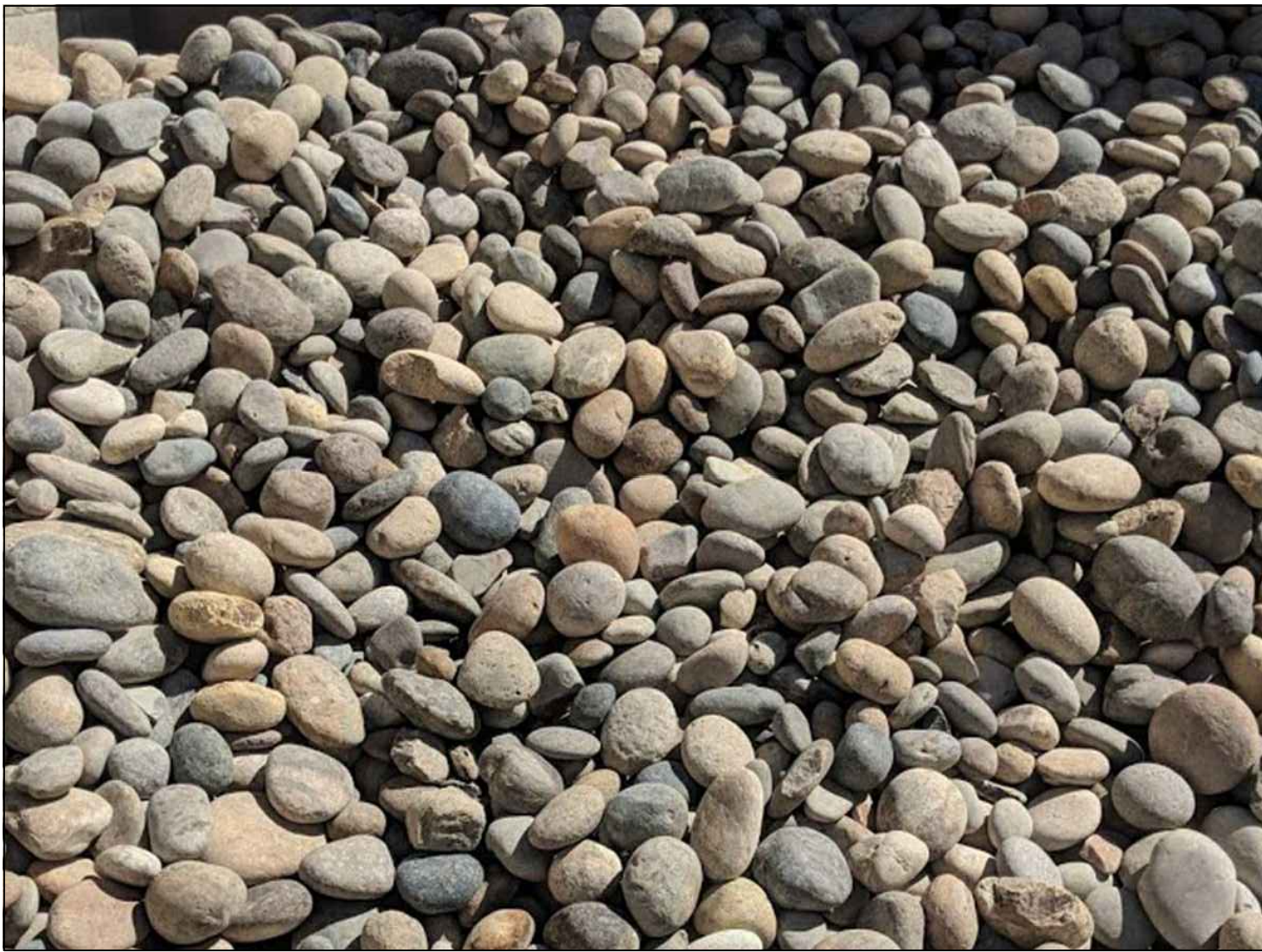
HAYWARD, CA

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NO	DATE	DESCRIPTION
PROJECT NO:		4795.00
CAD DWG FILE:		479500CL.DWG
DESIGNED BY:		BG
DRAWN BY:		JH
CHECKED BY:		BG
DATE:		JANUARY 8, 2019
SCALE:		AS SHOWN
© HMH		

CONCEPT IMAGES



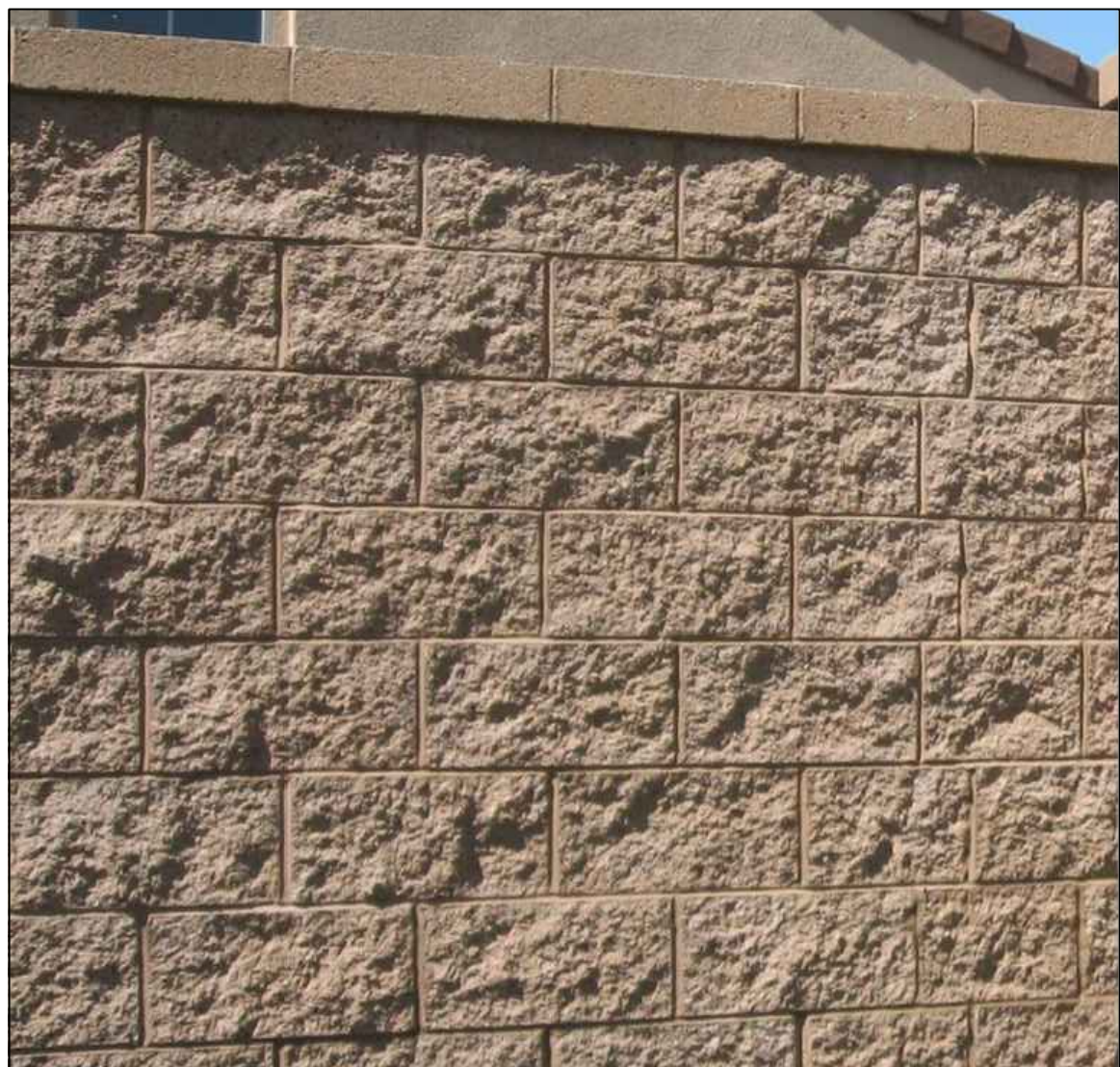
G BENCH
NTS



D NOIYA COBBLESTONE
NTS



A 6' WROUGHT IRON PERIMETER FENCE
NTS



H RETAINING WALL (TAN, SPLIT FACE WITH TAN CAP)
NTS



E DRIVEWAY CONCRETE PAVERS
NTS



B STONE PILASTER AND WROUGHT IRON FENCE
NTS



I DRY COBBLE SWALE
NTS



F FRONT WALK CONCRETE PAVERS
NTS



C STONE MONUMENT SIGN
NTS