Appendix A: Ball Estates Stormwater Control Plan

STORMWATER CONTROL PLAN

for

BALL ESTATES

SUBDIVISION 9338

3/29/18

Aliquot Associates Inc.

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Walnut Creek, CA 94596
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HMP Compliance- IMP Sizing Calculations

This Stormwater Control Plan was prepared using the template dated February 15, 2012.

I. PROJECT DATA

Table 1. Project Data

Project Name/Number	Ball Property
Application Submittal Date	4/29/13
Project Location	333 Camille Ave, Alamo, CA
Name of Developer	NA
Project Phase No.	NA
Project Type and Description	Residential subdivision with 35 lots. 34 new homes and 1 existing home to remain.
Project Watershed	
Total Project Site Area (acres)	60.5
Total Area of Land Disturbed (acres)	21.7
Total New Impervious Surface Area (sq. ft.)	303,814
Total Replaced Impervious Surface Area	126,514
Total Pre-Project Impervious Surface Area	131,571
Total Post-Project Impervious Surface Area	308,871
50% Rule	Applies
Project Density	0.9-2.9 Units/Acre
Applicable Special Project Categories	None
Percent LID and non LID treatment	100%
HMP Compliance	Yes

II. SETTING

II.A. Project Location and Description

The project is proposing a single family detached subdivision, consisting of a 35 lot, gated community, in the Alamo area west of Danville Blvd. lying within the unincorporated area of Contra Costa County. The 60.5 acre project consists of a 21.7 acre development site along with 38.8 acres of Open Space.

II.B. Existing Site Features and Conditions

The Ball property consists of a family estate, family office building, and adjacent open space located on 60.5 acres. The property was purchased by the family in 1942 and resided upon until recently. The land is accessed at two points from 2 public roads- Ironwood Place and Camille Ave.; see Figure 1: Vicinity Map. Two remnant, non-producing, orchards lie at the northern and southeastern areas of the property. The property is bounded by EBRPD on the west and along a portion of the southern boundary; and on the north, east, and the remaining portion of the southern boundary by single family lots with homes. An intermittent drainage meanders through the center of the site. The site is flanked by steep terrain beginning at the foot of the open space area, ascending through EBRPD lands, to Las Trampas Ridge. The estate home, barn, horse pasture areas, and office buildings are connected by paved driveways.

II.C. Opportunities and Constraints for Stormwater Control

The site is generally flat with ample area to place bioretention facilities. All lots and streets will be treated using bioretention facilities sized for hydromodification with orifices in the outlet structures.

III. LOW IMPACT DEVELOPMENT DESIGN STRATEGIES

III.A. Optimization of Site Layout

The lots were created using the standards for R-20 zoning. The pads are laid out in accordance with the County's creek setback standards are also placed above the 100-year flood level.

III.B. Use of Permeable Pavements

Permeable pavements will not be used on this project.

III.C. Dispersal of Runoff to Pervious Areas

During the final lot designs water from roofs and other impervious surfaces will be directed to self-retaining areas whenever feasible.

III.D. Integrated Management Practices

All impervious area on the project site will be treated with bioretention facilities. There will be one bioretention facility per lot. Most facilities will treat water from the street that is tributary to it. Some portions of the street will require separate bioretention facilities.

IV. DOCUMENTATION OF DRAINAGE DESIGN

IV.A. Descriptions of each Drainage Management Area

IV.A.1. Table of Drainage Management Areas

DMA Name	*Surface Type*	*Area (square feet)*
DMA 1	*Roof and Driveway*	*6,000*
DMA 2	*Roof and Driveway*	*6,000*
DMA 3	*Roof and Driveway*	*6,000*
DMA 4	*Roof and Driveway*	*6,000*
DMA 5	*Roof and Driveway*	*6,000*
DMA 6	*Roof and Driveway*	*6,000*
DMA 7	*Roof and Driveway*	*6,000*
DMA 8	*Roof and Driveway*	*6,000*
DMA 9	*Roof and Driveway*	*6,000*
DMA 10	*Roof and Driveway*	*6,000*
DMA 11	*Roof and Driveway*	*6,000*
DMA 12	*Roof and Driveway*	*6,000*
DMA 13	*Roof and Driveway*	*6,000*
DMA 14	*Roof and Driveway*	*6,000*
DMA 15	*Roof and Driveway*	*6,000*
DMA 16	*Roof and Driveway*	*6,000*
DMA 17	*Roof and Driveway*	*6,000*
DMA 18	*Roof and Driveway*	*6,000*
DMA 19	*Roof and Driveway*	*6,000*
DMA 20	*Roof and Driveway*	*6,000*
DMA 21	*Roof and Driveway*	*6,000*

DMA 22	*Roof and Driveway*	*6,000*
DMA 23	*Roof and Driveway*	*6,000*
DMA 24	*Roof and Driveway*	*6,000*
DMA 25	*Roof and Driveway*	*6,000*
DMA 26	*Roof and Driveway*	*6,000*
DMA 27	*Roof and Driveway*	*6,000*
DMA 28	*Roof and Driveway*	*6,000*
DMA 29	*Roof and Driveway*	*6,000*
DMA 30	*Roof and Driveway*	*6,000*
DMA 31	*Roof and Driveway*	*6,000*
DMA 32	*Roof and Driveway*	*6,000*
DMA 33	*Roof and Driveway*	*6,000*
DMA 34	*Roof and Driveway*	*6,000*
DMA 35	*Roof*	*11,000*
DMA 36	*Street*	*1,502*
DMA 37	*Street*	*1,996*
DMA 38	*Street*	*1,839*
DMA 39	*Street*	*2,505*
DMA 40	*Street*	*6,049*
DMA 41	*Street*	*4,100*
DMA 42	*Street*	*1,907*
DMA 43	*Street*	*2,520*
DMA 44	*Street*	*2,834*
DMA 45	*Street*	*3,352*
DMA 46	*Street*	*11,138*
DMA 47	*Street*	*2,214*

DMA 48	*Street*	*1,527*
DMA 49	*Street*	*5,012*
DMA 50	*Street*	*2,620*
DMA 51	*Street*	*1,129*
DMA 52	*Street*	*12,067*
DMA 53	*Street*	*9,556*
DMA 54	*Street*	*2,210*
DMA 55	*Street*	*2,108*
DMA 56	*Pavement*	*4,280*
DMA 57	*Pavement*	*11,406*

IV.A.2. Drainage Management Area Descriptions

DMA 1, totaling 6,000 square feet, drains roof and driveway. DMA 1 drains to IMP #1.

DMA 2, totaling 6,000 square feet, drains roof and driveway. DMA 2 drains to IMP #2.

DMA 3, totaling 6,000 square feet, drains roof and driveway. DMA 3 drains to IMP #3.

DMA 4, totaling 6,000 square feet, drains roof and driveway. DMA 4 drains to IMP #4.

DMA 5, totaling 6,000 square feet, drains roof and driveway. DMA 5 drains to IMP #5.

DMA 6, totaling 6,000 square feet, drains roof and driveway. DMA 6 drains to IMP #6.

DMA 7, totaling 6,000 square feet, drains roof and driveway. DMA 7 drains to IMP #7.

DMA 8, totaling 6,000 square feet, drains roof and driveway. DMA 8 drains to IMP #8.

DMA 9, totaling 6,000 square feet, drains roof and driveway. DMA 9 drains to IMP #9.

DMA 10, totaling 6,000 square feet, drains roof and driveway. DMA 10 drains to IMP #10.

DMA 11, totaling 6,000 square feet, drains roof and driveway. DMA 11 drains to IMP #11.

DMA 12, totaling 6,000 square feet, drains roof and driveway. DMA 12 drains to IMP #12.

DMA 13, totaling 6,000 square feet, drains roof and driveway. DMA 13 drains to IMP #13.

DMA 14, totaling 6,000 square feet, drains roof and driveway. DMA 14 drains to IMP #14.

DMA 15, totaling 6,000 square feet, drains roof and driveway. DMA 15 drains to IMP #15.

DMA 16, totaling 6,000 square feet, drains roof and driveway. DMA 16 drains to IMP #16.

DMA 17, totaling 6,000 square feet, drains roof and driveway. DMA 17 drains to IMP #17.

DMA 18, totaling 6,000 square feet, drains roof and driveway. DMA 18 drains to IMP #18.

DMA 19, totaling 6,000 square feet, drains roof and driveway. DMA 19 drains to IMP #19.

DMA 20, totaling 6,000 square feet, drains roof and driveway. DMA 20 drains to IMP #20.

DMA 21, totaling 6,000 square feet, drains roof and driveway. DMA 21 drains to IMP #21.

DMA 22, totaling 6,000 square feet, drains roof and driveway. DMA 22 drains to IMP #22.

DMA 23, totaling 6,000 square feet, drains roof and driveway. DMA 23 drains to IMP #23.

DMA 24, totaling 6,000 square feet, drains roof and driveway. DMA 24 drains to IMP #24.

DMA 25, totaling 6,000 square feet, drains roof and driveway. DMA 25 drains to IMP #25.

DMA 26, totaling 6,000 square feet, drains roof and driveway. DMA 26 drains to IMP #26.

DMA 27, totaling 6,000 square feet, drains roof and driveway. DMA 27 drains to IMP #27.

DMA 28, totaling 6,000 square feet, drains roof and driveway. DMA 28 drains to IMP #28.

DMA 29, totaling 6,000 square feet, drains roof and driveway. DMA 29 drains to IMP #29.

DMA 30, totaling 6,000 square feet, drains roof and driveway. DMA 30 drains to IMP #30.

DMA 31, totaling 6,000 square feet, drains roof and driveway. DMA 31 drains to IMP #31.

DMA 32, totaling 6,000 square feet, drains roof and driveway. DMA 32 drains to IMP #32.

DMA 33, totaling 6,000 square feet, drains roof and driveway. DMA 33 drains to IMP #33.

DMA 34, totaling 6,000 square feet, drains roof and driveway. DMA 34 drains to IMP #34.

DMA 35, totaling 11,000 square feet, drains the existing house's roof. DMA 35 drains to IMP #35.

DMA 36 totaling 1,502 square feet, drains street. DMA 36 drains to IMP #1.

DMA 37 totaling 1,996 square feet, drains street. DMA 37 drains to IMP #14.

DMA 38 totaling 1,839 square feet, drains street. DMA 38 drains to IMP #2.

DMA 39 totaling 2,505 square feet, drains street. DMA 39 drains to IMP #13.

DMA 40 totaling 6,049 square feet, drains street. DMA 40 drains to IMP #36.

DMA 41 totaling 4,100 square feet, drains street. DMA 41 drains to IMP #12.

DMA 42 totaling 1,907 square feet, drains street. DMA 42 drains to IMP #6.

DMA 43 totaling 2,520 square feet, drains street. DMA 43 drains to IMP #11.

DMA 44 totaling 2,834 square feet, drains street. DMA 44 drains to IMP #7.

DMA 45 totaling 3,352 square feet, drains street. DMA 45 drains to IMP #10.

DMA 46 totaling 11,138 square feet, drains street. DMA 46 drains to IMP #37.

DMA 47 totaling 2,214 square feet, drains street. DMA 47 drains to IMP #23.

DMA 48 totaling 1,527 square feet, drains street. DMA 48 drains to IMP #24.

DMA 49 totaling 5,012 square feet, drains street. DMA 49 drains to IMP #28.

DMA 50 totaling 2,620 square feet, drains street. DMA 50 drains to IMP #25.

DMA 51 totaling 1,129 square feet, drains street. DMA 51 drains to IMP #26.

DMA 52 totaling 12,067 square feet, drains street. DMA 52 drains to IMP #21.

DMA 53 totaling 9,556 square feet, drains street. DMA 53 drains to IMP #16.

DMA 54 totaling 2,210 square feet, drains street. DMA 54 drains to IMP #15.

DMA 55 totaling 2,108 square feet, drains street. DMA 55 drains to IMP #22.

DMA 56 totaling 4,280 square feet, drains pavement. DMA 56 drains to IMP #28.

DMA 57 totaling 11,406 square feet, drains pavement. DMA 57 drains to IMP #39.

Note that DMA's encompassing pervious areas are not yet definable without house layouts. For the Tentative Map most pervious areas are assumed to be collected in a storm drain system that is not connected to the bioretention facilities and piped directly to the storm drain system. For each lot it was assumed that 150 sf of pervious area drains to the bioretention facilities. Two lots were chosen to illustrate the potential future design of the house, driveway, bioretention facility, and yard drainage. See Figure 4 for lots 6 and 30 potential future development.

IV.B. Tabulation and Sizing Calculations

IV.B.1. Information Summary for IMP Design

Total Project Area (Square Feet)	2,635,380
Mean Annual Precipitation	23
IMPs Designed For:	Treatment + flow control

IV.B.2. Self-Treating Areas

Precise roof and driveway layout will be designed with construction documents. All area not accounted for in the impervious DMA's will be self-treating. At this stage there are no definable self-treating areas.

DMA Name	*Area (square feet)*

V. SOURCE CONTROL MEASURES

V.A. Site activities and potential sources of pollutants

V.B. Source Control Table

Potential source of runoff pollutants	*Permanent source control BMPs*	*Operational source control BMPs*
On-site storm drain inlets	☐ Mark all inlets with the word "No Dumping! Drains to Creek" or similar.	☐ Markings will be periodically repainted or replaced. ☐ Inlets and pipes conveying storm water to IMPs will be inspected and

		maintained as part of the IMP Operation and Maintenance Plan
Need for future indoor and structural pest control		☐ Integrated Pest Management (IPM) information will be provided.
Landscape plan and Pesticide use	Final landscape plans will: ☐ Be designed to minimize irrigation and runoff and to minimize use of fertilizers and pesticides that can contribute to stormwater pollution. ☐ Specify plantings within planters and swales that are tolerant of the sandy loam soils and periodic inundation. ☐ Include pest-resistant plants. ☐ Include plantings appropriate to site soils, slopes, climate, sun, wind, rain, land use, air movement, ecological consistency and plant interactions.	☐ Landscape will be maintained using minimum or no pesticides. ☐ IPM information will be provided.
Vehicle washing	☐ Minimize vehicle washing frequency	☐ Vehicle washing, if any, will occur in front of the existing parsonage, enter the porous pavement

V.C. Features, Materials, and Methods of Construction of Source Control BMPs

VI. STORMWATER FACILITY MAINTENANCE

VI.A. Ownership and Responsibility for Maintenance in Perpetuity

The Applicant will submit, with the application for building permits, a copy of this Stormwater Control Plan. The Applicant will provide a Stormwater Control Operation and Maintenance (O&M) Plan for review of the Public Works Department, and record an Operation and Maintenance Agreement, including any necessary rights-of-entry, prior to issuance of a building permit. The Applicant will be required to annex into CFD 2007-1 (Stormwater Management Facilities). Maintenance of the bioretention planters will be the responsibility of the Homeowner's Association

VI.B. Summary of Maintenance Requirements for Each Stormwater Facility

(1) Bioretention Planter

Bioretention planters will capture runoff piped in from impervious surface areas and roof tops. The runoff briefly floods the surface of the box and then percolates through a biologically active soil layer to a subdrain system surrounded by drain rock.

- Examine pipes that flow to the planter and ensure that flow is unimpeded. Remove any debris and repair any visible damage. Check splash blocks or cobbles and repair, replace or replenish as necessary.
- Examine the overflow pipe/drop inlet to make sure that it can safely convey excess flows to a storm drain. Repair or replace any damaged or disconnected piping.
- Hose out underdrain piping at least annually to make sure it is intact and unobstructed.
- Observe the structure of the planter walls and fix any holes, cracks, rotting, or failure.
- Check that the soil is at the appropriate depth to allow a reservoir above the soil surface and is sufficient to effectively filter stormwater. Remove any accumulations of sediment, litter, and debris. Till or replace soil as necessary. Confirm that soil is not clogging and that the planter will drain within 3-4 hours after a storm event.
- Examine the vegetation to ensure that it is healthy and dense enough to provide filtering and to protect soils from erosion. Replenish mulch as necessary, remove fallen leaves and debris, prune large shrubs or trees, and mow turf areas. When mowing, remove no more than 1/3height of grasses. Confirm that irrigation is adequate and not excessive. Replace dead plants and remove noxious and invasive vegetation.

- Observe soil at the bottom of the stormwater facility for uniform percolation throughout. If portions of the planter do not drain within 24 hours after the end of a storm, the soil should be tilled and replanted. Remove any debris or accumulations of sediment.

- Abate any potential vectors by filling holes in the ground in and around the stormwater facility and by insuring that there are no areas where water stands longer than 24 hours following a storm. If mosquito larvae are present and persistent, contact the Contra Costa Mosquito and Vector Control District for information and advice. Mosquito larvicides should be applied only when absolutely necessary and then only by a licensed individual or contractor.

VII. CONSTRUCTION PLAN C.3 CHECKLIST

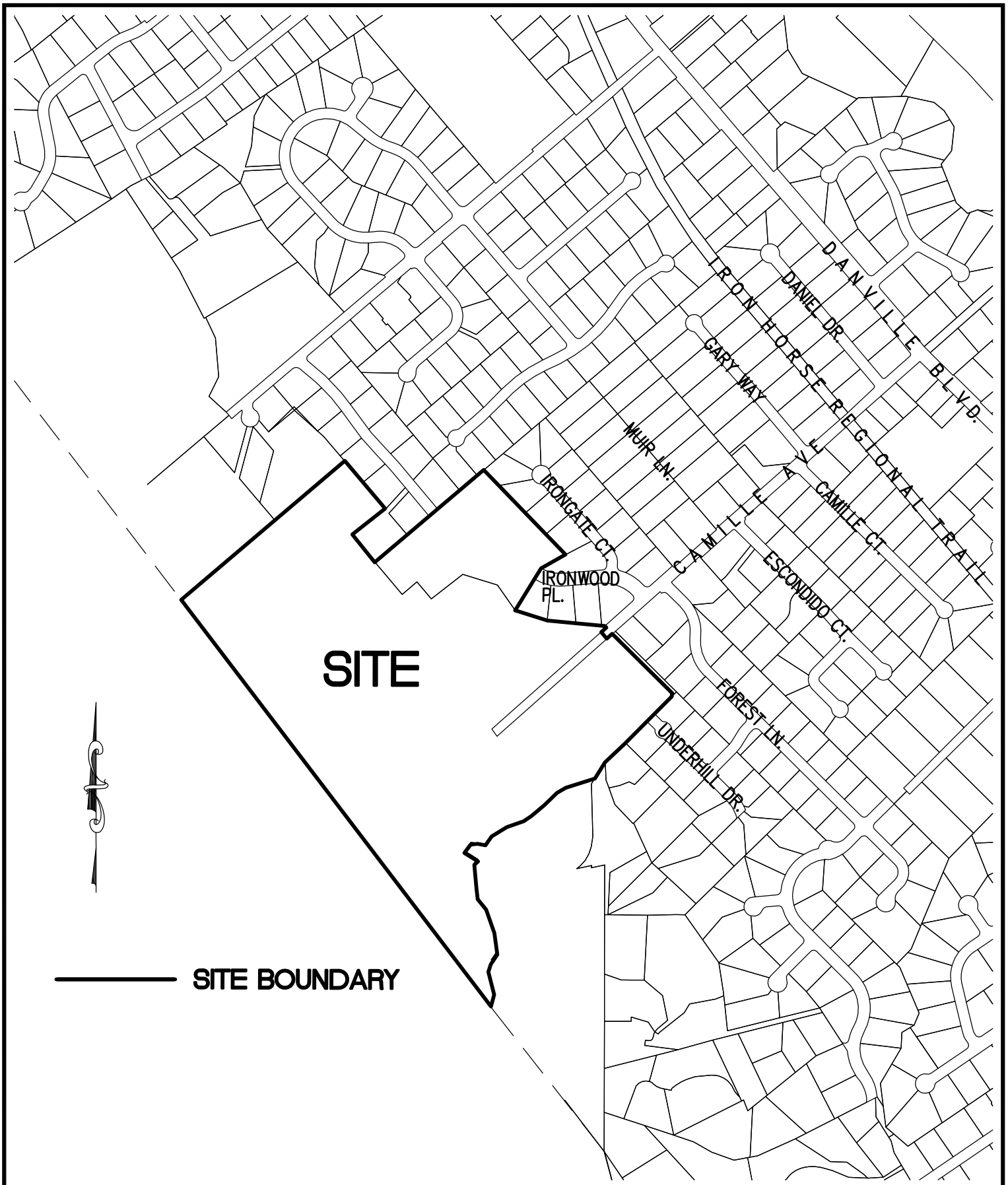
Will be updated when construction plans are prepared in the future.

Stormwater Control Plan Page #	*BMP Description*	*See Plan Sheet #s*

VIII. CERTIFICATIONS

The selection, sizing, and preliminary design of stormwater treatment and other control measures in this plan meet the requirements of Regional Water Quality Control Board Order R2-2009-0074 and Order R2-2011-0083.

FIGURE 1



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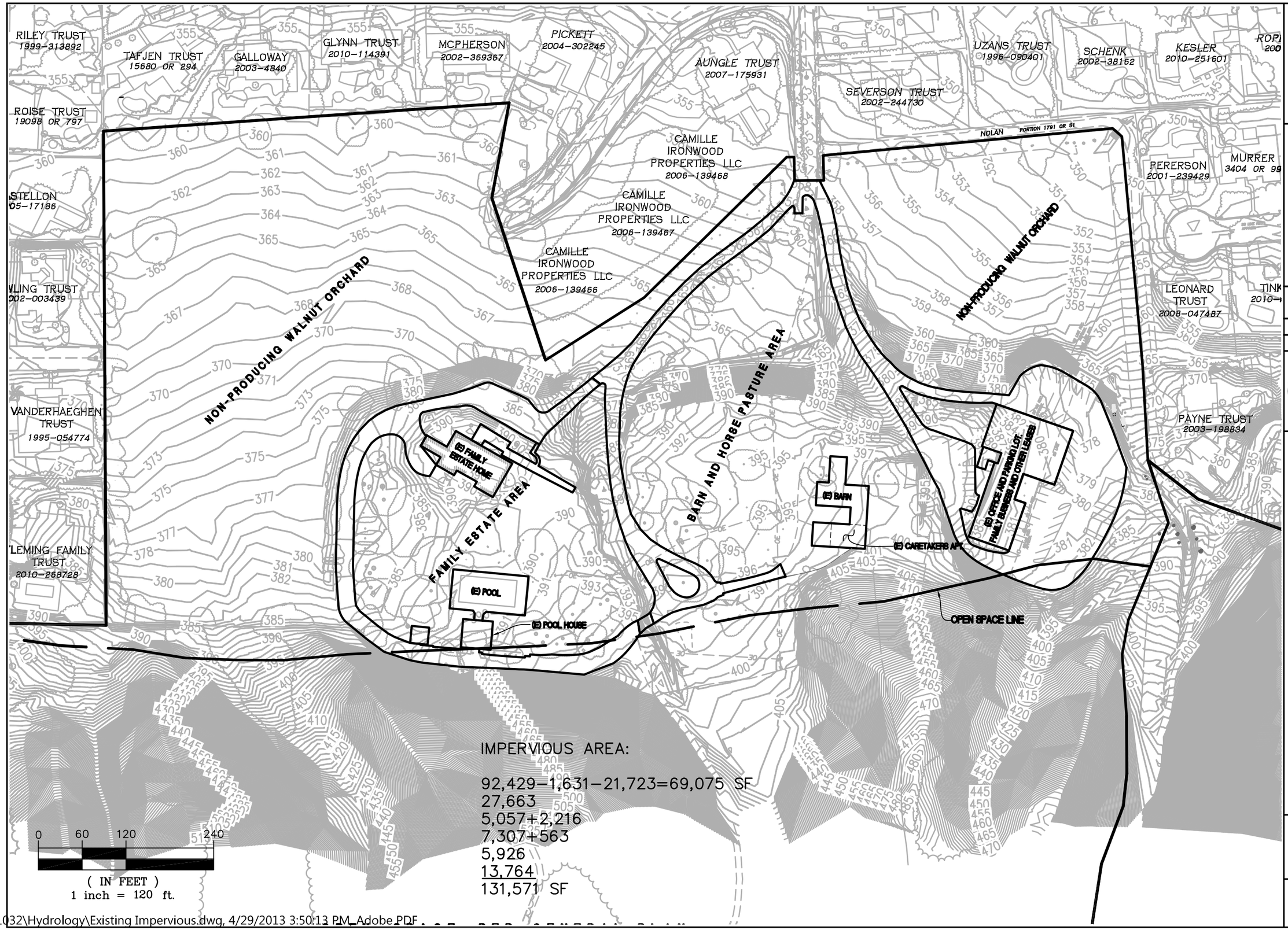
Subject FIGURE 1: VICINITY MAP
Job No. 201032.40 Scale NOT TO SCALE
By FW Date 2013-03-24 Chkd. -
SHEET 1 OF 1

FIGURE 2



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No.	BY	DATE	REVISIONS

EXISTING IMPERVIOUS AREA

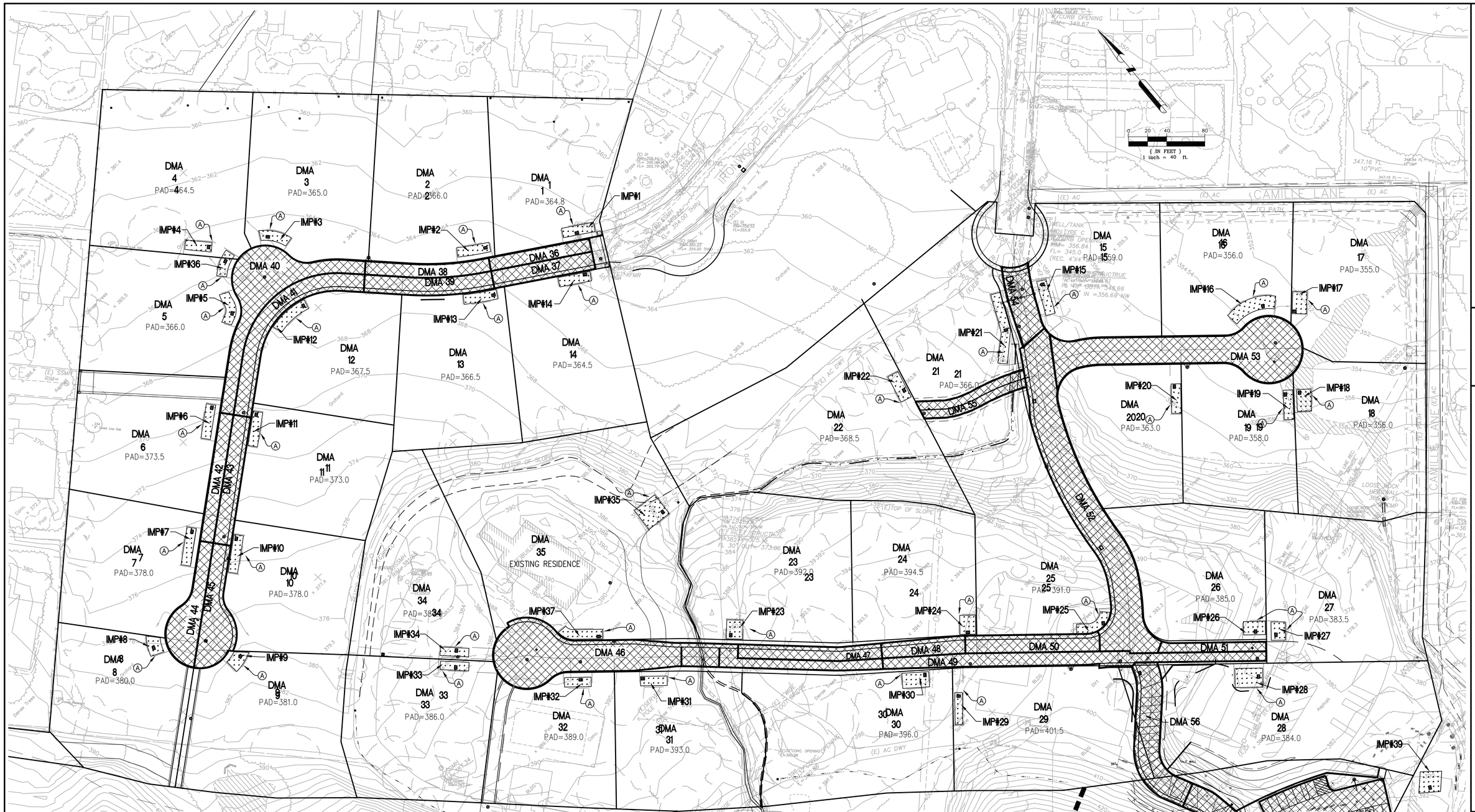
ALAMO CONTRA COSTA COUNTY CALIFORNIA

JOB NO 201032
SCALE 1"=120'
DATE 4/29/13
DESIGN
DRAWN MC
APPROVED

DRAWING NUMBER
1
1 OF 1

P:\201\201032\Hydrology\Existing Impervious.dwg, 4/29/2013 3:50:13 PM, Adobe PDF

FIGURE 3



DMA #	IMPERVIOUS AREA TRIBUTARY TO IMP (SF)	PERVIOUS AREA TRIBUTARY TO IMP (SF)	IMP #	TREATMENT AREA REQUIRED (SF)	TREATMENT AREA PROVIDED (SF)
DMA 1	6,000	150	IMP#1	268	268
DMA 2	6,000	150	IMP#2	268	268
DMA 3	6,000	150	IMP#3	268	268
DMA 4	6,000	150	IMP#4	268	268
DMA 5	6,000	150	IMP#5	268	268
DMA 6	6,000	150	IMP#6	268	268
DMA 7	6,000	150	IMP#7	268	268
DMA 8	6,000	150	IMP#8	268	268
DMA 9	6,000	150	IMP#9	268	268
DMA 10	6,000	150	IMP#10	268	268
DMA 11	6,000	150	IMP#11	268	268
DMA 12	6,000	150	IMP#12	268	268
DMA 13	6,000	150	IMP#13	268	268
DMA 14	6,000	150	IMP#14	268	268
DMA 15	6,000	150	IMP#15	268	268
DMA 16	6,000	150	IMP#16	268	268
DMA 17	6,000	150	IMP#17	268	268
DMA 18	6,000	150	IMP#18	268	268
DMA 19	6,000	150	IMP#19	268	268
DMA 20	6,000	150	IMP#20	268	268

DMA #	IMPERVIOUS AREA TRIBUTARY TO IMP (SF)	PERVIOUS AREA TRIBUTARY TO IMP (SF)	IMP #	TREATMENT AREA REQUIRED (SF)	TREATMENT AREA PROVIDED (SF)
DMA 21	6,000	150	IMP#21	268	268
DMA 22	6,000	150	IMP#22	268	268
DMA 23	6,000	150	IMP#23	268	268
DMA 24	6,000	150	IMP#24	268	268
DMA 25	6,000	150	IMP#25	268	268
DMA 26	6,000	150	IMP#26	268	268
DMA 27	6,000	150	IMP#27	268	268
DMA 28	6,000	150	IMP#28	268	268
DMA 29	6,000	150	IMP#29	268	268
DMA 30	6,000	150	IMP#30	268	268
DMA 31	6,000	150	IMP#31	268	268
DMA 32	6,000	150	IMP#32	268	268
DMA 33	6,000	150	IMP#33	268	268
DMA 34	6,000	150	IMP#34	268	268
DMA 35	11,000	2,500	IMP#35	559	675
DMA 36	1,502	0	IMP#1	66	72
DMA 37	1,996	0	IMP#14	88	88
DMA 38	1,839	0	IMP#2	81	78
DMA 39	2,505	0	IMP#13	110	110
DMA 40	6,049	0	IMP#36	265	266

DMA #	IMPERVIOUS AREA TRIBUTARY TO IMP (SF)	PERVIOUS AREA TRIBUTARY TO IMP (SF)	IMP #	TREATMENT AREA REQUIRED (SF)	TREATMENT AREA PROVIDED (SF)
DMA 41	4,100	0	IMP#12	180	180
DMA 42	1,907	0	IMP#6	84	97
DMA 43	2,520	0	IMP#11	110	110
DMA 44	2,834	0	IMP#7	124	132
DMA 45	3,352	0	IMP#10	147	147
DMA 46	11,138	0	IMP#37	488	441
DMA 47	2,214	0	IMP#23	97	72
DMA 48	1,527	0	IMP#24	67	62
DMA 49	5,012	0	IMP#28	220	213
DMA 50	2,620	0	IMP#25	115	126
DMA 51	1,129	0	IMP#26	49	54
DMA 52	12,067	0	IMP#21	529	480
DMA 53	9,556	0	IMP#16	419	425
DMA 54	2,210	0	IMP#15	97	100
DMA 55	2,108	0	IMP#22	92	92
DMA 56	4,280	0	IMP#28	101	101
DMA 57	11,406	0	IMP#39	500	492

TOTAL=308,871 SF

ALL PERVIOUS AREA, BESIDES WHAT IS ACCOUNTED FOR IN EACH LOT, WILL BE CONVEYED DIRECTLY TO THE STORM DRAIN SYSTEM AND WILL NOT ENTER BIORETENTION FACILITIES. EXACT DMA BOUNDARIES CANNOT BE ESTABLISHED WITHOUT HOUSE FOOTPRINTS AND LOT LAYOUTS. ALL LOTS ARE ASSUMED TO HAVE 6,000 SF OF IMPERVIOUS SURFACE THAT WILL BE CONVEYED TO BIORETENTION FACILITIES FOR TREATMENT.
ALL IMP'S WILL BE MAINTAINED BY THE HOME OWNERS ASSOCIATION, SEE SHEET TM3

COMMON DMA'S ATTRIBUTED TO SAME IMP

IMP #	DMA #	DMA #	TOTAL IMP AREA PROVIDED (SF)
IMP#1	DMA 1	DMA 36	340
IMP#2	DMA 2	DMA 38	346
IMP#6	DMA 6	DMA 42	365
IMP#7	DMA 7	DMA 44	400
IMP#10	DMA 10	DMA 45	400
IMP#11	DMA 11	DMA 43	365
IMP#12	DMA 12	DMA 41	426
IMP#13	DMA 13	DMA 39	354
IMP#14	DMA 14	DMA 37	340
IMP#15	DMA 15	DMA 54	368
IMP#16	DMA 16	DMA 53	693
IMP#21	DMA 21	DMA 52	748
IMP#22	DMA 22	DMA 55	360
IMP#23	DMA 23	DMA 47	340
IMP#24	DMA 24	DMA 48	330
IMP#25	DMA 25	DMA 50	394
IMP#26	DMA 26	DMA 51	322
IMP#28	DMA 28	DMA 49 DMA 56	582

A SWME-STORM WATER MAINTENANCE EASEMENT IN FAVOR OF HOA

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CIVIL
STATE OF CALIFORNIA

VESTING TENTATIVE MAP
BALL ESTATES
STORMWATER CONTROL PLAN
SUBDIVISION 9338 - 333 CAMILLE AVENUE

CONTRA COSTA COUNTY
ALAMO
CALIFORNIA

Revisions

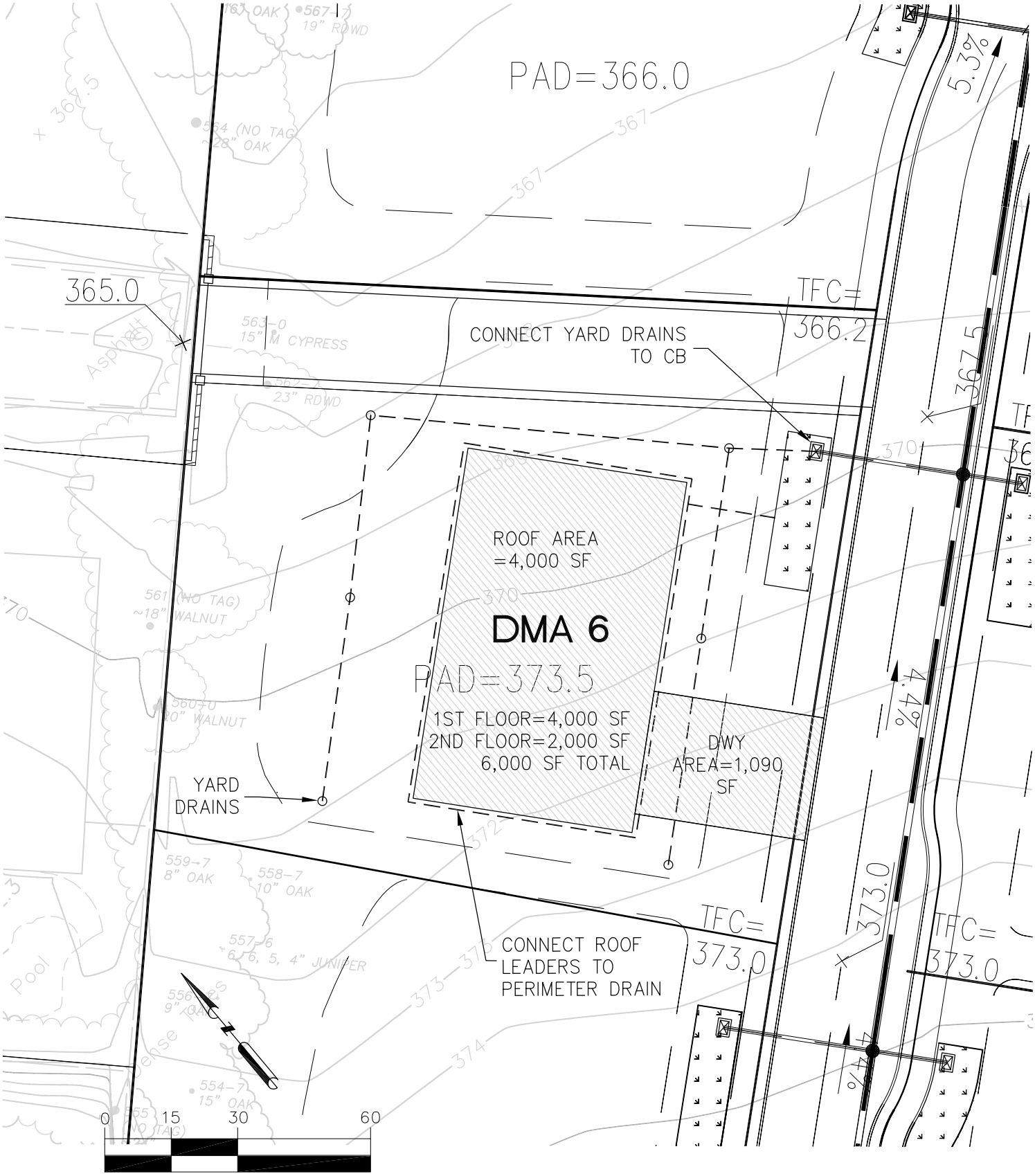
No.	

Date 3/29/2018
Scale 1"=40'
Design VJD
Drawn MC
Approved RCW
Job No. 201032

Drawing Number:
TM-8
8 OF 8

P:\201\201032\Tentative Map\TM-8_Stormwater Control Plan.dwg, 3/30/2018 4:17:31 PM, ARCH E1

FIGURE 4



(IN FEET)
1 inch = 30 ft.

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Planners
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Surveyors

Aliquot Associates, Inc.
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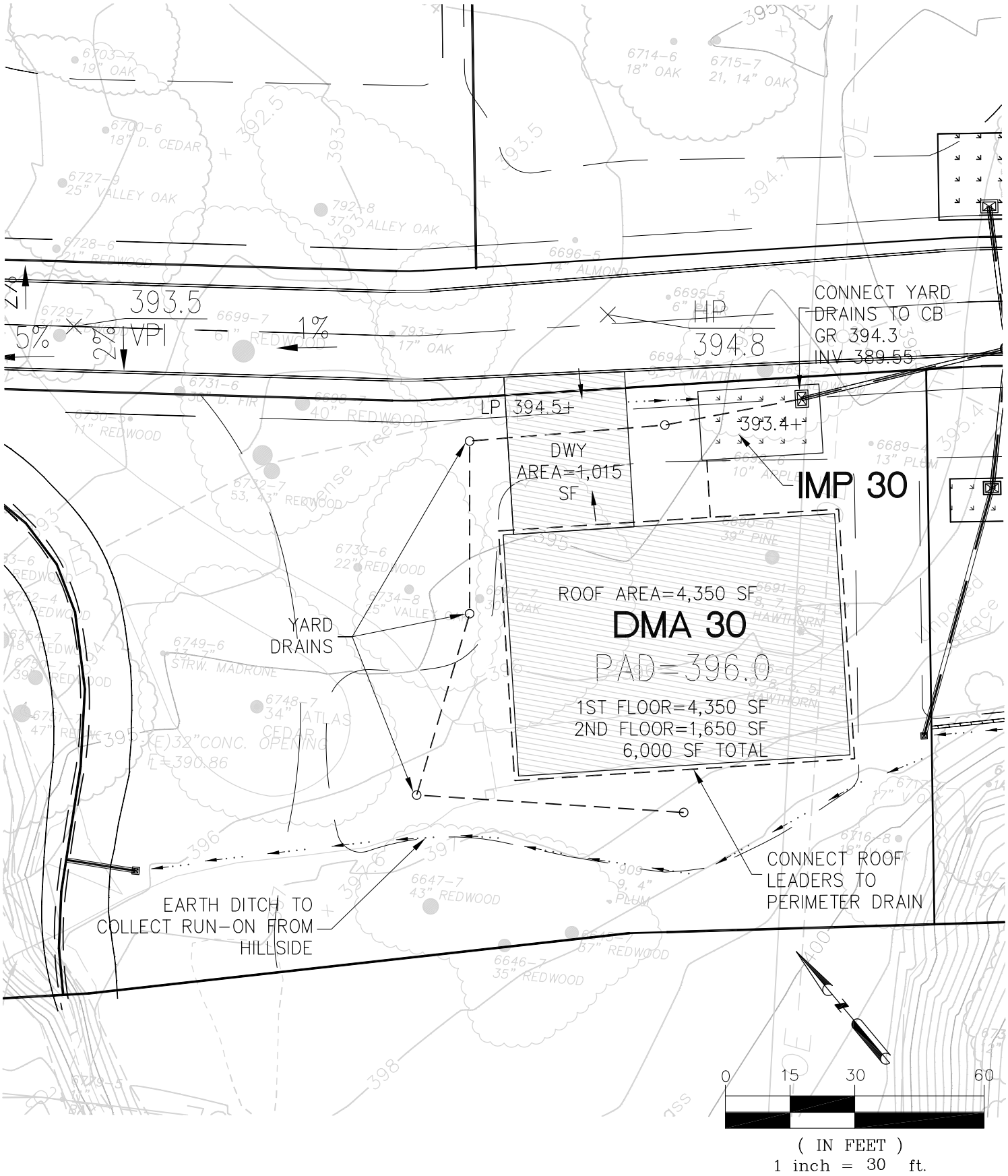
Subject LOT 6 C.3
Job No. 201032 Scale 1"=30'
By MC Date 10/30/13 Chkd.
SHEET 1 OF 1



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Subject LOT 30 C.3
Job No. 201032 Scale 1"=30'
By MC Date 10/30/13 Chkd.
SHEET 1 OF 1

APPENDIX

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 1a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 1b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.017	Max Outflow cfs/sf
							0.002	
							0.607	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 2a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 2b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.018	Max Outflow cfs/sf
							0.002	
							0.621	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 3a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 3b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.013	Max Outflow cfs/sf
							0.002	
							0.544	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 4a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 4b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.013	Max Outflow cfs/sf
							0.002	
							0.544	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 5a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 5b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.013	Max Outflow cfs/sf
							0.002	
							0.544	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 6a	5090	Roof/Pave	1	5090	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 6b	500	Landscape	0.7	350				
				5440	0.05	0.8768	238	Area
					0.042	0.8768	200	V1
					0.055	0.8768	656	V2
							0.016	Max Outflow cfs/sf
							0.002	
							0.601	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 7a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 7b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.020	Max Outflow cfs/sf
							0.002	
							0.658	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 8a	6000	Roof/Pave	1	6000	IMP Sizing	Rain Adjustment	Min.	
DMA 8b	150	Landscape	0.7	105	Factor	Factor	Area/Volume	
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.013	Max Outflow cfs/sf
							0.002	
							0.544	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 9a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 9b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.013	Max Outflow cfs/sf
							0.002	
							0.544	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 10a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 10b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.021	Max Outflow cfs/sf
							0.002	
							0.677	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 11a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 11b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.019	Max Outflow cfs/sf
							0.002	
							0.646	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 12a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 12b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.022	Max Outflow cfs/sf
							0.003	
							0.703	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 13a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 13b	2500	Landscape	0.7	1750				
				7750	0.05	0.8768	340	Area
					0.042	0.8768	285	V1
					0.055	0.8768	934	V2
							0.019	Max Outflow cfs/sf
							0.002	
							0.640	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 14a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 14b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.018	Max Outflow cfs/sf
							0.002	
							0.627	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 15a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 15b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.023	Max Outflow cfs/sf
							0.003	
							0.710	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 16a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 16b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.034	Max Outflow cfs/sf
							0.004	
							0.870	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 17a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 17b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.013	Max Outflow cfs/sf
							0.002	
							0.544	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 18a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 18b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.013	Max Outflow cfs/sf
							0.002	
							0.544	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 19a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 19b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.013	Max Outflow cfs/sf
							0.002	
							0.544	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 20a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 20b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.013	Max Outflow cfs/sf
							0.002	
							0.544	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 21a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 21b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.040	Max Outflow cfs/sf
							0.005	
							0.937	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 22a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 22b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.013	Max Outflow cfs/sf
							0.002	
							0.544	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 23a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 23b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.018	Max Outflow cfs/sf
							0.002	
							0.635	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 24a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 24b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.017	Max Outflow cfs/sf
							0.002	
							0.608	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 25a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 25b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.019	Max Outflow cfs/sf
							0.002	
							0.650	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 26a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 26b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.013	Max Outflow cfs/sf
							0.002	
							0.544	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 27a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 27b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.013	Max Outflow cfs/sf
							0.002	
							0.544	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 28a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 28b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.024	Max Outflow cfs/sf
							0.003	
							0.734	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 29a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 29b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.013	Max Outflow cfs/sf
							0.002	
							0.544	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 30a	5360	Roof/Pave	1	5360	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 30b	500	Landscape	0.7	350				
				5710	0.05	0.8768	250	Area
					0.042	0.8768	210	V1
					0.055	0.8768	688	V2
							0.013	Max Outflow cfs/sf
							0.002	
							0.531	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 31a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 31b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.013	Max Outflow cfs/sf
							0.002	
							0.544	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 32a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 32b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.013	Max Outflow cfs/sf
							0.002	
							0.544	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 33a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 33b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.013	Max Outflow cfs/sf
							0.002	
							0.544	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 34a	6000	Roof/Pave	1	6000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 34b	150	Landscape	0.7	105				
				6105	0.05	0.8768	268	Area
					0.042	0.8768	225	V1
					0.055	0.8768	736	V2
							0.013	Max Outflow cfs/sf
							0.002	
							0.544	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 35a	11000	Roof/Pave	1	11000	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
DMA 35b	2500	Landscape	0.7	1750				
				12750	0.05	0.8768	559	Area
					0.042	0.8768	470	V1
					0.055	0.8768	1537	V2
							0.030	Max Outflow cfs/sf
							0.004	
							0.807	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 36	1,502	Street	1	1502	IMP Sizing	Rain Adjustment	Min.	
				0	Factor	Factor	Area/Volume	
				1502	0.05	0.8768	66	Area
					0.042	0.8768	55	V1
					0.055	0.8768	181	V2
							0.003	Max Outflow cfs/sf
							0.000	
							0.269	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 37	1,996	Street	1	1996	IMP Sizing	Rain Adjustment	Min.	
				0	Factor	Factor	Area/Volume	
				1996	0.05	0.8768	88	Area
					0.042	0.8768	74	V1
					0.055	0.8768	241	V2
							0.004	Max Outflow cfs/sf
							0.001	
							0.310	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 38	1,839	Street	1	1839	IMP Sizing	Rain Adjustment	Min.	
				0	Factor	Factor	Area/Volume	
				1839	0.05	0.8768	81	Area
					0.042	0.8768	68	V1
					0.055	0.8768	222	V2
							0.004	Max Outflow cfs/sf
							0.000	
							0.298	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 39	2,505	Street	1	2505	IMP Sizing	Rain Adjustment	Min.	
				0	Factor	Factor	Area/Volume	
				2505	0.05	0.8768	110	Area
					0.042	0.8768	92	V1
					0.055	0.8768	302	V2
							0.005	Max Outflow cfs/sf
							0.001	
							0.347	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 40	6,049	Street	1	6049	IMP Sizing	Rain Adjustment	Min.	
				0	Factor	Factor	Area/Volume	
				6049	0.05	0.8768	265	Area
					0.042	0.8768	223	V1
					0.055	0.8768	729	V2
							0.013	Max Outflow cfs/sf
							0.002	
							0.540	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type	IMP Name		
					D			
DMA 41	4,100	Street	1	4100	IMP Sizing	Rain Adjustment	Min.	
				0	Factor	Factor	Area/Volume	
				4100	0.05	0.8768	180	Area
					0.042	0.8768	151	V1
					0.055	0.8768	494	V2
							0.009	Max Outflow cfs/sf
							0.001	
							0.445	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 42	1,907	Street	1	1907	IMP Sizing	Rain Adjustment	Min.	
			0.7	0	Factor	Factor	Area/Volume	
				1907	0.05	0.8768	84	Area
					0.042	0.8768	70	V1
					0.055	0.8768	230	V2
							0.004	Max Outflow cfs/sf
							0.001	
							0.303	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 43	2,520	Street	1	2520	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
				0				
				2520	0.05	0.8768	110	Area
					0.042	0.8768	93	V1
					0.055	0.8768	304	V2
							0.006	Max Outflow cfs/sf
							0.001	
							0.349	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 44	2,834	Street	1	2834	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
				0				
				2834	0.05	0.8768	124	Area
					0.042	0.8768	104	V1
					0.055	0.8768	342	V2
							0.006	Max Outflow cfs/sf
							0.001	
							0.370	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 45	3,352	Street	1	3352	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
				0				
				3352	0.05	0.8768	147	Area
					0.042	0.8768	123	V1
					0.055	0.8768	404	V2
							0.007	Max Outflow cfs/sf
							0.001	
							0.402	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 46	11,138	Street	1	11138	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
				0				
				11138	0.05	0.8768	488	Area
					0.042	0.8768	410	V1
					0.055	0.8768	1,343	V2
							0.024	Max Outflow cfs/sf
							0.003	
							0.733	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 47	2,214	Street	1	2214	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
				0				
				2214	0.05	0.8768	97	Area
					0.042	0.8768	82	V1
					0.055	0.8768	267	V2
							0.005	Max Outflow cfs/sf
							0.001	
							0.327	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 48	1,527	Street	1	1527	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
				0				
				1527	0.05	0.8768	67	Area
					0.042	0.8768	56	V1
					0.055	0.8768	184	V2
							0.003	Max Outflow cfs/sf
							0.000	
							0.271	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 49	5,012	Street	1	5012	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
				0				
				5012	0.05	0.8768	220	Area
					0.042	0.8768	185	V1
					0.055	0.8768	604	V2
							0.011	Max Outflow cfs/sf
							0.001	
							0.492	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 50	2,620	Street	1	2620	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
				0				
				2620	0.05	0.8768	115	Area
					0.042	0.8768	96	V1
					0.055	0.8768	316	V2
							0.006	Max Outflow cfs/sf
							0.001	
							0.355	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 51	1,129	Street	1	1129	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
				0				
				1129	0.05	0.8768	49	Area
					0.042	0.8768	42	V1
					0.055	0.8768	136	V2
							0.002	Max Outflow cfs/sf
							0.000	
							0.233	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 52	12,067	Street	1	12067	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
				0				
				12067	0.05	0.8768	529	Area
					0.042	0.8768	444	V1
					0.055	0.8768	1,455	V2
							0.026	Max Outflow cfs/sf
							0.003	
							0.763	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 53	9,556	Street	1	9556	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
				0				
				9556	0.05	0.8768	419	Area
					0.042	0.8768	352	V1
					0.055	0.8768	1,152	V2
							0.021	Max Outflow cfs/sf
							0.003	
							0.679	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 54	2,210	Street	1	2210	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
				0				
				2210	0.05	0.8768	97	Area
					0.042	0.8768	81	V1
					0.055	0.8768	266	V2
							0.005	Max Outflow cfs/sf
							0.001	
							0.326	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 55	2,108	Street	1	2108	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
				0				
				2108	0.05	0.8768	92	Area
					0.042	0.8768	78	V1
					0.055	0.8768	254	V2
							0.005	Max Outflow cfs/sf
							0.001	
							0.319	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 56	4,280	Street	1	4280	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
				0				
				4280	0.05	0.8768	188	Area
					0.042	0.8768	158	V1
					0.055	0.8768	516	V2
							0.009	Max Outflow cfs/sf
							0.001	
							0.454	Orifice Dia (in)

DMA Name	DMA Area (sf)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Soil Type D	IMP Name		
DMA 57	11,406	Street	1	11406	IMP Sizing Factor	Rain Adjustment Factor	Min. Area/Volume	
				0				
				11406	0.05	0.8768	500	Area
					0.042	0.8768	420	V1
					0.055	0.8768	1,375	V2
							0.025	Max Outflow cfs/sf
							0.003	
							0.742	Orifice Dia (in)