Rev	Date	Description	Designed	Drawn	Checked
-	XX/XX/XX	XXX			

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State	California

DEER CREEK APARTMENTS

PRELIMINARY GRADING & DRAINAGE PLAN - WEST

ACCLAIM COMPANIES

Prepared Under the Direction of:

REGISTERED PROFESSIONAL ENGINEER
WAYNE F. LEACH
No. 54309
CIVIL
STATE OF CALIFORNIA

Sheet	C3.1
Scale:	1" = 40'
Date:	05/15/2023
Project Number:	23.00.128
Plan File:	

Rev	Date	Description	Designed	Drawn	Checked
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State: California

DEER CREEK APARTMENTS

PRELIMINARY GRADING & DRAINAGE PLAN - EAST

ACCLAIM COMPANIES

Prepared Under the Direction of:
REGISTERED PROFESSIONAL ENGINEER
WAYNE F. LEACH
No. 54309
CIVIL
STATE OF CALIFORNIA

Sheet
C3.2

Scale: 1" = 40'
Date: 05/15/2023
Project Number: 23.00.128
Plan File:

Rev	Date	Description	Designed	Drawn	Checked
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DEER CREEK APARTMENTS

PRELIMINARY STORMWATER CONTROL PLAN - OVERALL

ACCLAIM COMPANIES

Prepared Under the Direction of:

REGISTERED PROFESSIONAL ENGINEER
WAYNE F. LEACH
No. 54309
CIVIL
STATE OF CALIFORNIA

Sheet
C4.0

Scale:	1" = 80'
Date:	05/15/2023
Project Number:	23.00.128
Plan File:	

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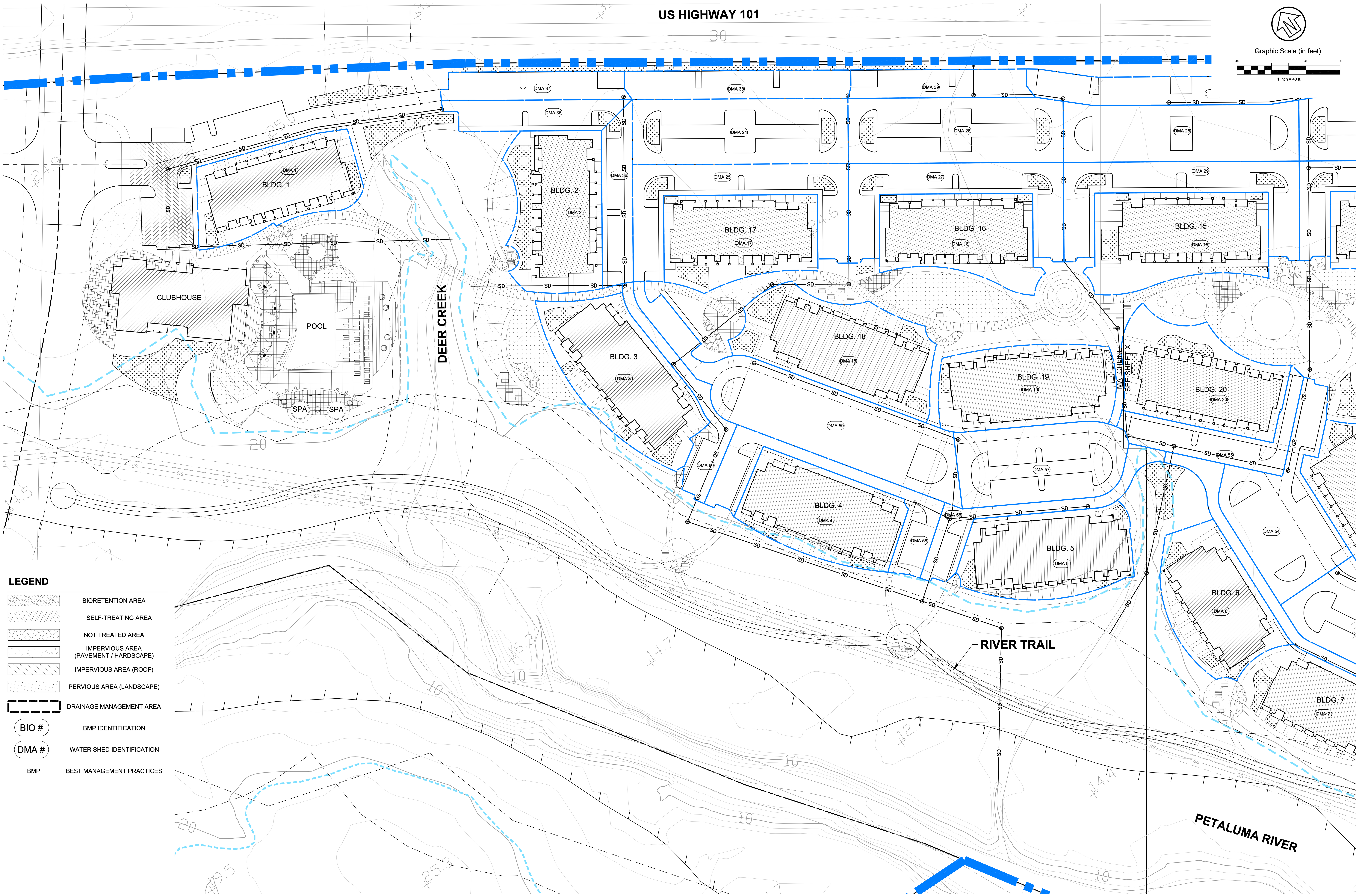

LEGEND

	BIORETENTION AREA
	SELF-TREATING AREA
	NOT TREATED AREA
	IMPERVIOUS AREA (PAVEMENT / HARDSCAPE)
	IMPERVIOUS AREA (ROOF)
	PERVIOUS AREA (LANDSCAPE)
	DRAINAGE MANAGEMENT AREA
BIO #	BMP IDENTIFICATION
DMA #	WATER SHED IDENTIFICATION
BMP	BEST MANAGEMENT PRACTICES

Rev	Date	Description	Designed	Drawn	Checked
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DEER CREEK APARTMENTS

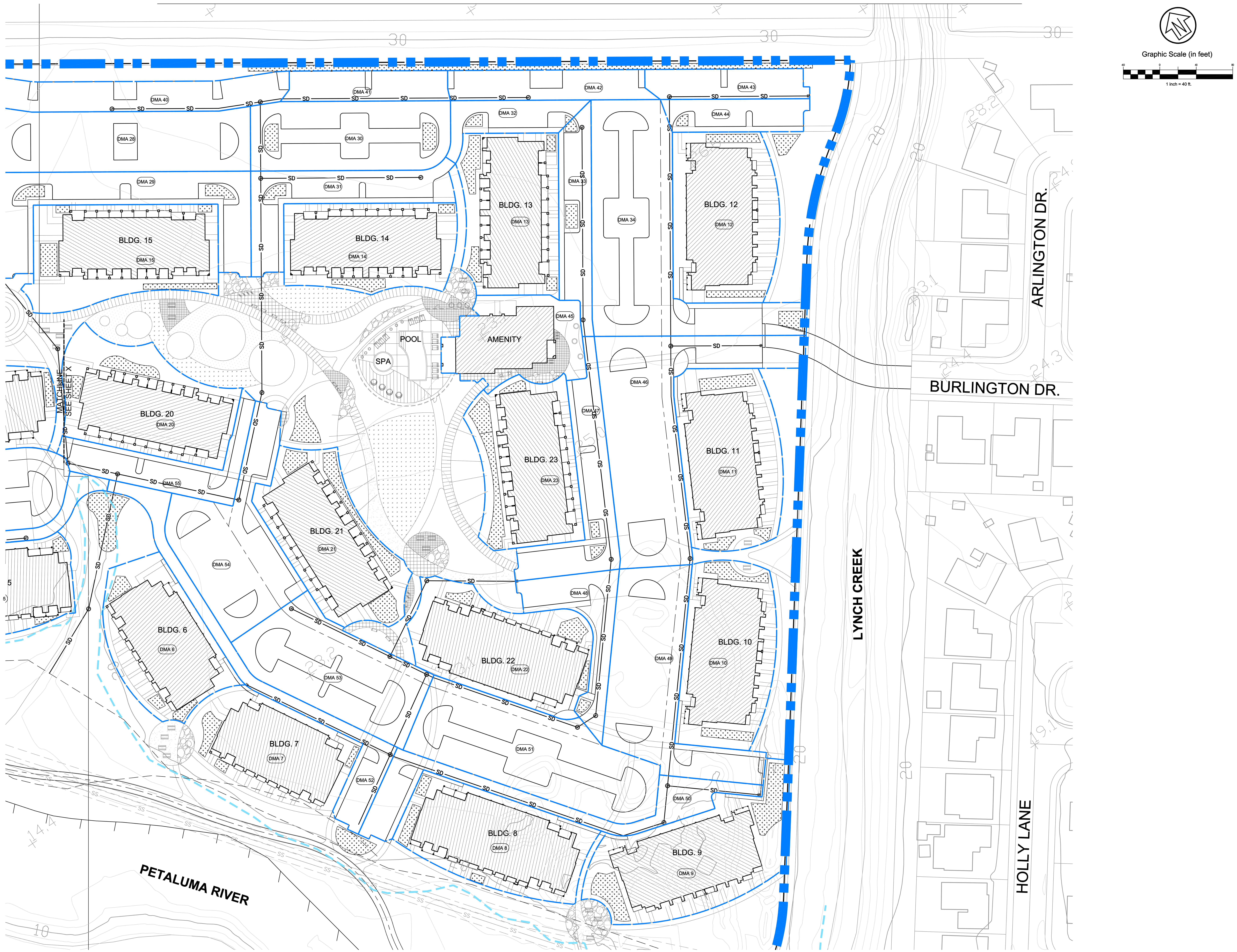
PRELININARY STORMWATER CONTROL PLAN - WEST

ACCLAIM COMPANIES

Prepared Under the Direction of:

REGISTERED PROFESSIONAL ENGINEER
WAYNE F. LEACH
No. 54309
CIVIL
STATE OF CALIFORNIA

Sheet	C4.1
Scale:	1" = 40'
Date:	05/15/2023
Project Number:	23.00.128
Plan File:	



LEGEND

	BIORETENTION AREA
	SELF-TREATING AREA
	NOT TREATED AREA
	IMPERVIOUS AREA (PAVEMENT / HARDSCAPE)
	IMPERVIOUS AREA (ROOF)
	PERVIOUS AREA (LANDSCAPE)
	DRAINAGE MANAGEMENT AREA
BIO #	BMP IDENTIFICATION
DMA #	WATER SHED IDENTIFICATION
BMP	BEST MANAGEMENT PRACTICES

Rev	Date	Description	Designed	Drawn	Checked
-	XX/XX/XX	XXX			

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County	Sonoma
State	California

DEER CREEK APARTMENTS

PRELIMINARY STORMWATER CONTROL PLAN - EAST

ACCLAIM COMPANIES

Prepared Under the Direction of:

REGISTERED PROFESSIONAL ENGINEER
WAYNE F. LEACH
No. 54309
CIVIL
STATE OF CALIFORNIA

Sheet	C4.2
Scale:	1" = 40'
Date:	05/15/2023
Project Number:	23.00.128
Plan File:	

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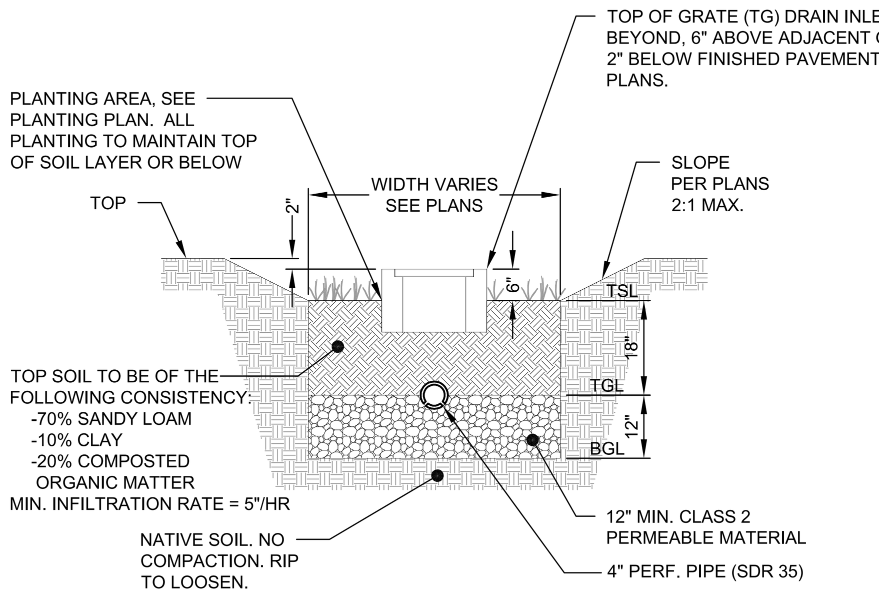
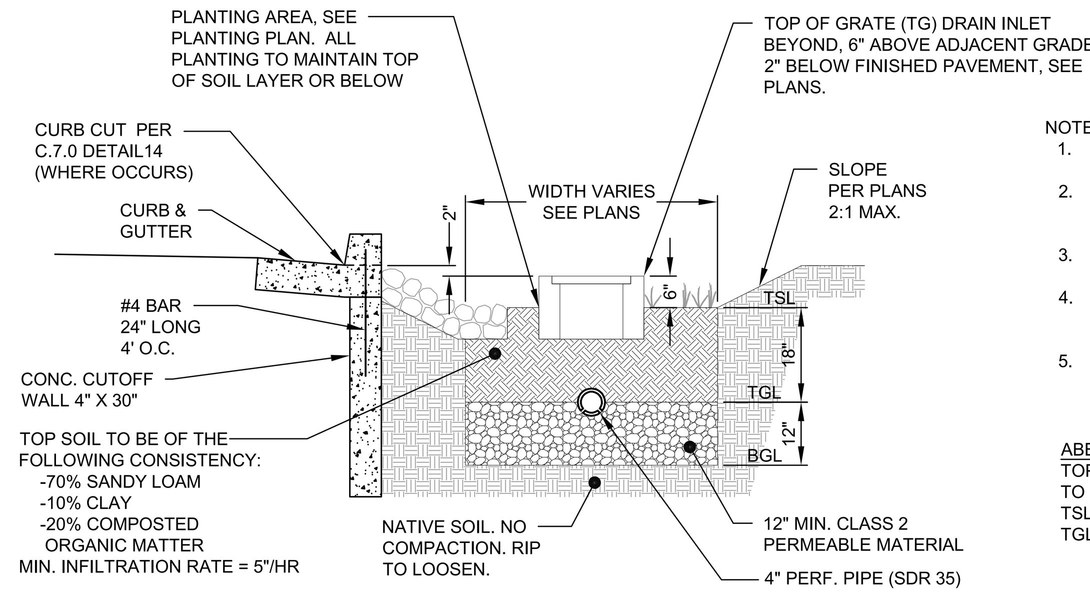


NOTE:
1. BIORETENTION AREAS HAVE A MINIMUM DEPTH OF 6".
2. ELEVATION OF UNDERDRAIN DISCHARGE IS AT TOP OF GRAVEL LAYER.
3. CONNECT TO STORMDRAIN INLET OR OUTFALL.
4. PROVIDE CLEANOUTS AT ENDS & ANGLE POINTS WITH TOP 2" MIN. ABOVE OVERFLOW LEVEL.
5. USE CHECK DAM FOR AREAS WHERE LONGITUDINAL SLOPE EXCEEDS 1%.

ABBREVIATIONS:
TOP TOP BIORETENTION / TOP PLANTER
TO TOP OVERFLOW DRAIN
TSL TOP SOIL LAYER
TGL TOP GRAVEL LAYER

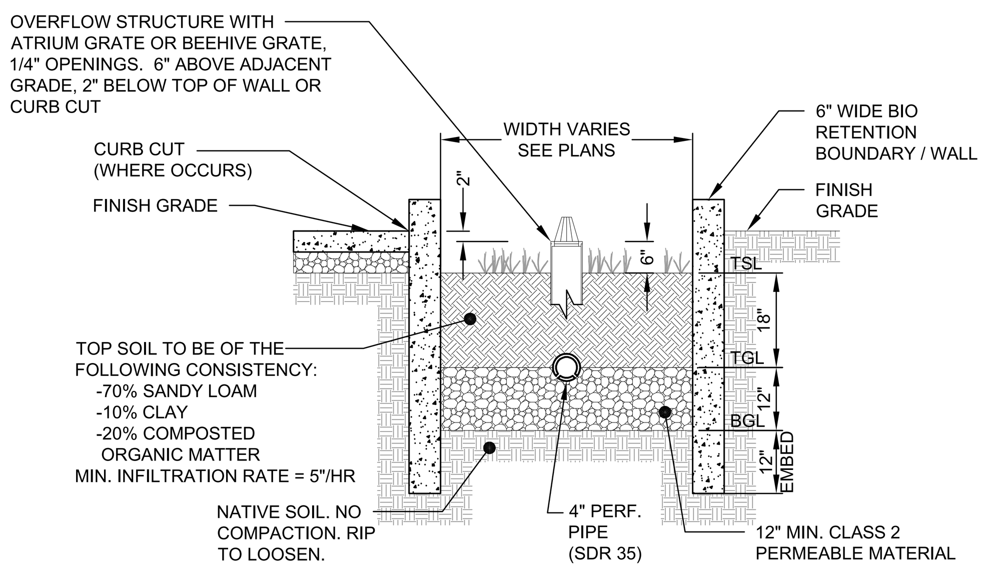
1 **BIORETENTION AREA DETAIL (BIO TYP.)**
SCALE: 1/2" = 1'



NOTE:
1. BIORETENTION AREAS HAVE A MINIMUM DEPTH OF 6".
2. ELEVATION OF UNDERDRAIN DISCHARGE IS AT TOP OF GRAVEL LAYER.
3. CONNECT TO STORMDRAIN INLET OR OUTFALL.
4. PROVIDE CLEANOUTS AT ENDS & ANGLE POINTS WITH TOP 2" MIN. ABOVE OVERFLOW LEVEL.
5. USE CHECK DAM FOR AREAS WHERE LONGITUDINAL SLOPE EXCEEDS 1%.

ABBREVIATIONS:
TOP TOP BIORETENTION / TOP PLANTER
TO TOP OVERFLOW DRAIN
TSL TOP SOIL LAYER
TGL TOP GRAVEL LAYER

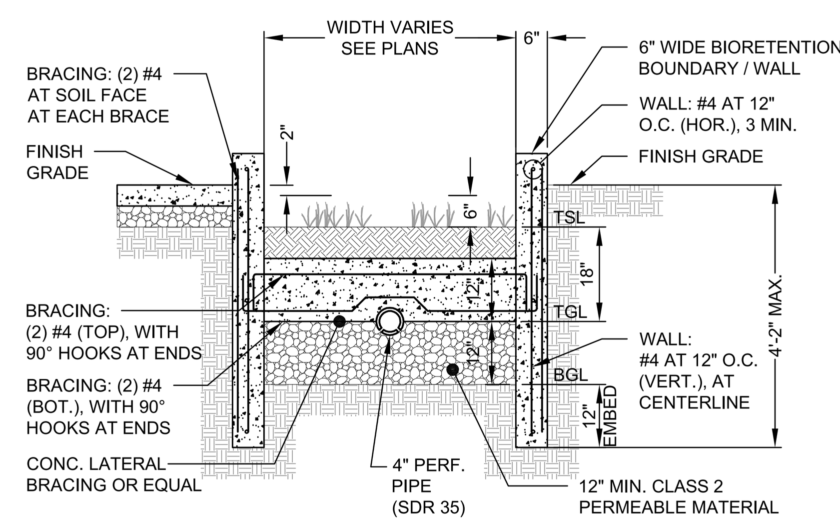
5 **BIORETENTION AREA DETAIL (BIO TYP.)**
SCALE: 1" = 1'



NOTES:
1. BIORETENTION AREAS HAVE A MINIMUM DEPTH OF 6".
2. ELEVATION OF UNDERDRAIN DISCHARGE IS AT TOP OF GRAVEL LAYER.
3. CONNECT TO STORMDRAIN INLET OR OUTFALL.
4. PROVIDE CLEANOUTS AT ENDS & ANGLE POINTS WITH TOP 2" MIN. ABOVE OVERFLOW LEVEL
5. USE CHECKDAM FOR AREAS WHERE LONGITUDINAL SLOPE EXCEEDS 1%
6. PROVIDE LATERAL BRACING EVERY 6'

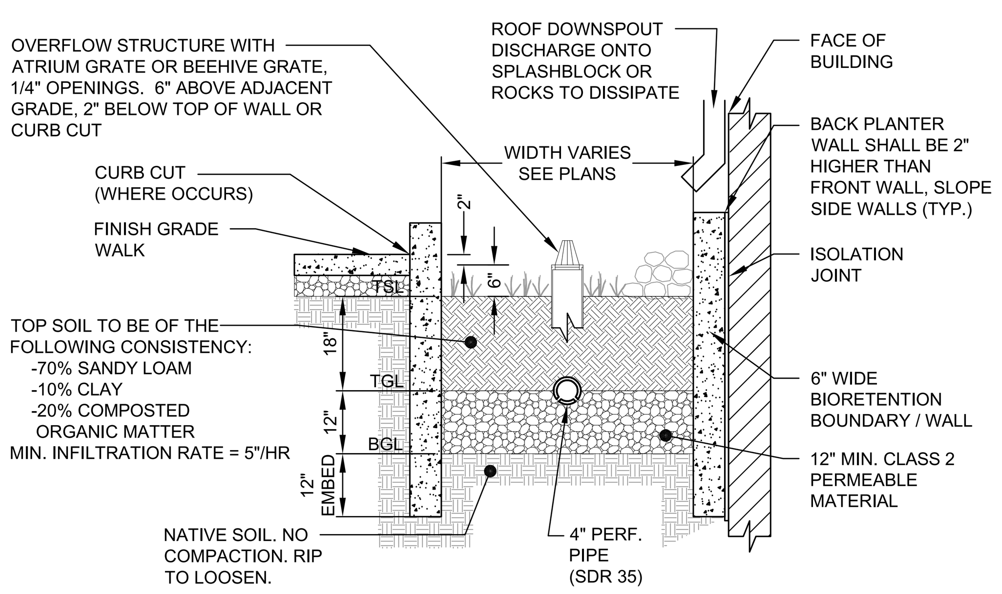
ABBREVIATIONS:
TOP TOP BIORETENTION / TOP PLANTER
TO TOP OVERFLOW DRAIN
TSL TOP SOIL LAYER
TGL TOP GRAVEL LAYER

2 **BIORETENTION AREA DETAIL (BIO TYP.)**
SCALE: 1/2" = 1'



NOTES:
1. CONCRETE LATERAL BRACING SHALL BE CONTINUOUS (NO JOINTS).
2. LATERAL BRACING SHALL BE PROVIDED EVERY 6' (MAX.) FOR WALLS UP TO 4 FEET IN HEIGHT.

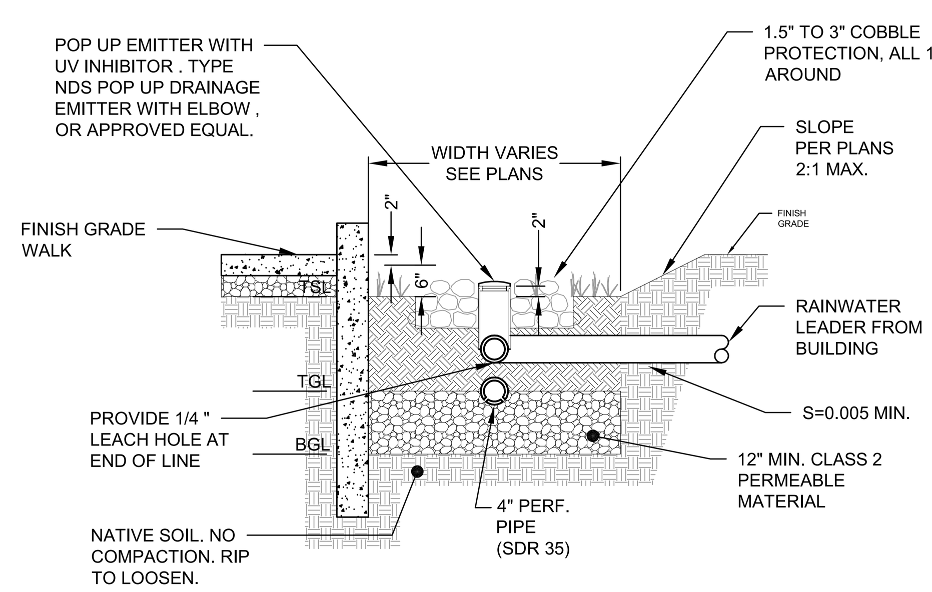
6 **BIORETENTION - WALL REINFORCING AND LATERAL BRACING**
SCALE: 1/2" = 1'



NOTES:
1. BIORETENTION AREAS HAVE A MINIMUM DEPTH OF 6".
2. ELEVATION OF UNDERDRAIN DISCHARGE IS AT TOP OF GRAVEL LAYER.
3. CONNECT TO STORMDRAIN INLET OR OUTFALL.
4. PROVIDE CLEANOUTS AT ENDS & ANGLE POINTS WITH TOP 2" MIN. ABOVE OVERFLOW LEVEL
5. USE CHECKDAM FOR AREAS WHERE LONGITUDINAL SLOPE EXCEEDS 1%
6. PROVIDE LATERAL BRACING EVERY 6'

ABBREVIATIONS:
TOP TOP BIORETENTION / TOP PLANTER
TO TOP OVERFLOW DRAIN
TSL TOP SOIL LAYER
TGL TOP GRAVEL LAYER

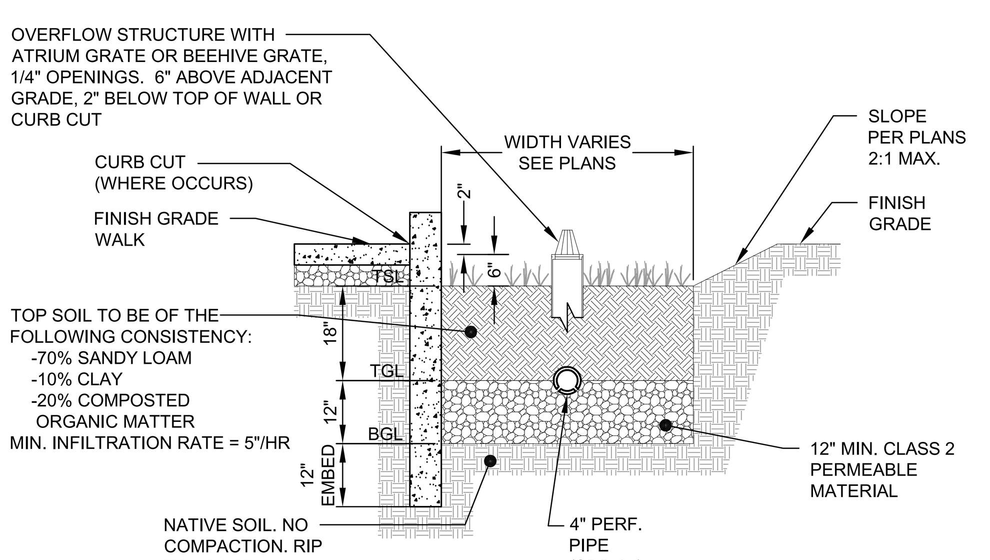
3 **BIORETENTION AREA DETAIL (BIO TYP.)**
SCALE: 1" = 1'



NOTES:
1. BIORETENTION AREAS HAVE A MINIMUM DEPTH OF 6".
2. ELEVATION OF UNDERDRAIN DISCHARGE IS AT TOP OF GRAVEL LAYER.
3. CONNECT TO STORMDRAIN INLET OR OUTFALL.
4. PROVIDE CLEANOUTS AT ENDS & ANGLE POINTS WITH TOP 2" MIN. ABOVE OVERFLOW LEVEL
5. USE CHECKDAM FOR AREAS WHERE LONGITUDINAL SLOPE EXCEEDS 1%
6. PROVIDE LATERAL BRACING EVERY 6'

ABBREVIATIONS:
TOP TOP BIORETENTION / TOP PLANTER
TO TOP OVERFLOW DRAIN
TSL TOP SOIL LAYER
TGL TOP GRAVEL LAYER

7 **BIORETENTION - RAINWATER LEADER BUBBLE UP**
SCALE: 1/2" = 1'



NOTES:
1. BIORETENTION AREAS HAVE A MINIMUM DEPTH OF 6".
2. ELEVATION OF UNDERDRAIN DISCHARGE IS AT TOP OF GRAVEL LAYER.
3. CONNECT TO STORMDRAIN INLET OR OUTFALL.
4. PROVIDE CLEANOUTS AT ENDS & ANGLE POINTS WITH TOP 2" MIN. ABOVE OVERFLOW LEVEL
5. USE CHECKDAM FOR AREAS WHERE LONGITUDINAL SLOPE EXCEEDS 1%
6. PROVIDE LATERAL BRACING EVERY 6'

ABBREVIATIONS:
TOP TOP BIORETENTION / TOP PLANTER
TO TOP OVERFLOW DRAIN
TSL TOP SOIL LAYER
TGL TOP GRAVEL LAYER

4 **BIORETENTION AREA DETAIL (BIO TYP.)**
SCALE: 1" = 1'

Rev	Date	Description	Designed	Drawn	Checked
-	XX/XX/XX	XXX			

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City: Petaluma
County: Sonoma
State: California

DEER CREEK APARTMENTS
STORMWATER CONTROL PLAN DETAILS
ACCLAIM COMPANIES

Prepared Under the Direction of:
REGISTERED PROFESSIONAL ENGINEER WAYNE F. LEACH No. 54309 CIVIL STATE OF CALIFORNIA

Sheet C4.3
Scale: N/A
Date: 05/15/2023
Project Number: 23.00.128
Plan File:

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 1		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 1	11700	ROOF	1.0	11700			
	1019	PAVEMENT	1.0	1019			
	4075	LANDSCAPE	0.1	408			
TOTAL >				13127	0.04	525	702

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 2		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 2	11700	ROOF	1.0	11700			
	1057	PAVEMENT	1.0	1057			
	4228	LANDSCAPE	0.1	423			
TOTAL >				13180	0.04	527	2319

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 3		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 3	13058	ROOF	1.0	13058			
	1423	PAVEMENT	1.0	1423			
	5690	LANDSCAPE	0.1	569			
TOTAL >				15050	0.04	602	1479

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 4		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 4	13058	ROOF	1.0	13058			
	873	PAVEMENT	1.0	873			
	3491	LANDSCAPE	0.1	349			
TOTAL >				14280	0.04	571	490

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 5		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 5	13058	ROOF	1.0	13058			
	884	PAVEMENT	1.0	884			
	3534	LANDSCAPE	0.1	353			
TOTAL >				14295	0.04	572	961

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 6		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 6	10033	ROOF	1.0	10033			
	1239	PAVEMENT	1.0	1239			
	4956	LANDSCAPE	0.1	496			
TOTAL >				11768	0.04	471	801

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 7		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 7	10033	ROOF	1.0	10033			
	989	PAVEMENT	1.0	989			
	3954	LANDSCAPE	0.1	395			
TOTAL >				11417	0.04	457	904

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 8		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 8	13058	ROOF	1.0	13058			
	1081	PAVEMENT	1.0	1081			
	4326	LANDSCAPE	0.1	433			
TOTAL >				14572	0.04	583	820

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 9		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 9	11273	ROOF	1.0	11273			
	1781	PAVEMENT	1.0	1781			
	7124	LANDSCAPE	0.1	712			
TOTAL >				13766	0.04	551	2772

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 10		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 10	11273	ROOF	1.0	11273			
	1332	PAVEMENT	1.0	1332			
	5329	LANDSCAPE	0.1	533			
TOTAL >				13138	0.04	526	1323

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 11		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 11	11273	ROOF	1.0	11273			
	1598	PAVEMENT	1.0	1598			
	6391	LANDSCAPE	0.1	639			
TOTAL >				13510	0.04	540	1288

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 12		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 12	11273	ROOF	1.0	11273			
	1685	PAVEMENT	1.0	1685			
	6738	LANDSCAPE	0.1	674			
TOTAL >				13632	0.04	545	1012

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 13		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 13	11700	ROOF	1.0	11700			
	1022	PAVEMENT	1.0	1022			
	4090	LANDSCAPE	0.1	409			
TOTAL >				13131	0.04	525	1595

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 14		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 14	11700	ROOF	1.0	11700			
	991	PAVEMENT	1.0	991			
	3966	LANDSCAPE	0.1	397			
TOTAL >				13088	0.04	524	733

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 15		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 15	11700	ROOF	1.0	11700			
	1644	PAVEMENT	1.0	1644			
	6576	LANDSCAPE	0.1	658			
TOTAL >				14002	0.04	560	1271

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 16		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 16	11700	ROOF	1.0	11700			
	1046	PAVEMENT	1.0	1046			
	4184	LANDSCAPE	0.1	418			
TOTAL >				13164	0.04	527	281

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 17		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 17	11700	ROOF	1.0	11700			
	938	PAVEMENT	1.0	938			
	3753	LANDSCAPE	0.1	375			
TOTAL >				13013	0.04	521	1195

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 18		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 18	13058	ROOF	1.0	13058			
	1431	PAVEMENT	1.0	1431			
	5725	LANDSCAPE	0.1	573			
TOTAL >				15062	0.04	602	2109

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 19		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 19	13058	ROOF	1.0	13058			
	995	PAVEMENT	1.0	995			
	3978	LANDSCAPE	0.1	398			
TOTAL >				14451	0.04	578	623

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 20		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 20	11700	ROOF	1.0	11700			
	1446	PAVEMENT	1.0	1446			
	5782	LANDSCAPE	0.1	578			
TOTAL >				13724	0.04	549	973

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 21		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 21	11700	ROOF	1.0	11700			
	984	PAVEMENT	1.0	984			
	3936	LANDSCAPE	0.1	394			
TOTAL >				13078	0.04	523	2738

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 22		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 22	13058	ROOF	1.0	13058			
	1203	PAVEMENT	1.0	1203			
	4812	LANDSCAPE	0.1	481			
TOTAL >				14742	0.04	590	1240

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 23		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 23	11700	ROOF	1.0	11700			
	4262	PAVEMENT	1.0	4262			
	1065	LANDSCAPE	0.1	107			
TOTAL >				16069	0.04	643	2131

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 24		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 24	0	ROOF	1.0	0			
	13225	PAVEMENT	1.0	13225			
	5010	LANDSCAPE	0.1	501			
TOTAL >				13726	0.04	549	860

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 25		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 25	0	ROOF	1.0	0			
	13626	PAVEMENT	1.0	13626			
	1118	LANDSCAPE	0.1	112			
TOTAL >				13738	0.04	550	667

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 26		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 26	0	ROOF	1.0	0			
	13125	PAVEMENT	1.0	13125			
	5420	LANDSCAPE	0.1	542			
TOTAL >				13667	0.04	547	430

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 27		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 27	0	ROOF	1.0	0			
	13210	PAVEMENT	1.0	13210			
	775	LANDSCAPE	0.1	78			
TOTAL >				13288	0.04	532	582

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 28		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 28	6720	ROOF	1.0	6720			
	9187	PAVEMENT	1.0	9187			
	2320	LANDSCAPE	0.1	232			
TOTAL >				16139	0.04	646	0

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 29		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 29	0	ROOF	1.0	0			
	13658	PAVEMENT	1.0	13658			
	1062	LANDSCAPE	0.1	106			
TOTAL >				13764	0.04	551	704

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 30		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 30	0	ROOF	1.0	0			
	11167	PAVEMENT	1.0	11167			
	4341	LANDSCAPE	0.1	434			
TOTAL >				11601	0.04	464	860

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 31		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 31	0	ROOF	1.0	0			
	9613	PAVEMENT	1.0	9613			
	1062	LANDSCAPE	0.1	106			
TOTAL >				9719	0.04	389	271

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 32		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 32	0	ROOF	1.0	0			
	4337	PAVEMENT	1.0	4337			
	773	LANDSCAPE	0.1	77			
TOTAL >				4414	0.04	177	192

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 33		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 33	0	ROOF	1.0	0			
	6975	PAVEMENT	1.0	6975			
	281	LANDSCAPE	0.1	28			
TOTAL >				7003	0.04	280	522

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 34		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 34	0	ROOF	1.0	0			
	21363	PAVEMENT	1.0	21363			
	6276	LANDSCAPE	0.1	628			
TOTAL >				21991	0.04	880	500

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 35		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 35	0	ROOF	1.0	0			
	6378	PAVEMENT	1.0	6378			
	306	LANDSCAPE	0.1	31			
TOTAL >				6409	0.04	256	200

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 36		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 36	0	ROOF	1.0	0			
	6374	PAVEMENT	1.0	6374			
	507	LANDSCAPE	0.1	51			
TOTAL >				6425	0.04	257	0

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 37		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 37	3333	ROOF	1.0	3333			
	3129	PAVEMENT	1.0	3129			
	472	LANDSCAPE	0.1	47			
TOTAL >				6509	0.04	260	0

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 38		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 38	5000	ROOF	1.0	5000			
	3349	PAVEMENT	1.0	3349			
	280	LANDSCAPE	0.1	28			
TOTAL >				8377	0.04	335	0

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 39		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 39	6848	ROOF	1.0	6848			
	2768	PAVEMENT	1.0	2768			
	427	LANDSCAPE	0.1	43			
TOTAL >				9659	0.04	386	0

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 40		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 40	6158	ROOF	1.0	6158			
	4565	PAVEMENT	1.0	4565			
	1070	LANDSCAPE	0.1	107			
TOTAL >				10830	0.04	433	0

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 41		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 41	3333	ROOF	1.0	3333			
	2385	PAVEMENT	1.0	2385			
	140	LANDSCAPE	0.1	14			
TOTAL >				5732	0.04	229	0

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 42		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 42	3333	ROOF	1.0	3333			
	3190	PAVEMENT	1.0	3190			
	703	LANDSCAPE	0.1	70			
TOTAL >				6593	0.04	264	0

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 43		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 43	3333	ROOF	1.0	3333			
	2240	PAVEMENT	1.0	2240			
	140	LANDSCAPE	0.1	14			
TOTAL >				5587	0.04	223	0

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 44		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 44	0	ROOF	1.0	0			
	5055	PAVEMENT	1.0	5055			
	320	LANDSCAPE	0.1	32			
TOTAL >				5087	0.04	203	132

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 45		
					IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
DMA 45	12990	ROOF	1.0	12990			
	4563	PAVEMENT	1.0	4563			
	1141	LANDSCAPE	0.1	114			
TOTAL >				17667	0.04	707	0

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State: California

DEER CREEK APARTMENTS

STORMWATER CONTROL PLAN TABLES

ACCLAIM COMPANIES

Prepared Under the Direction of:
REGISTERED PROFESSIONAL ENGINEER
WAYNE F. LEACH
No. 54309
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Date: 05/15/2023
Project Number: 23.00.128
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DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 46		
DMA 46	840	ROOF	1.0	840	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	22734	PAVEMENT	1.0	22734			
	2073	LANDSCAPE	0.1	207			
TOTAL >				23781	0.04	951	0

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 47		
DMA 47	0	ROOF	1.0	0	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	10104	PAVEMENT	1.0	10104			
	608	LANDSCAPE	0.1	61			
TOTAL >				10165	0.04	407	301

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 48		
DMA 48	0	ROOF	1.0	0	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	7092	PAVEMENT	1.0	7092			
	331	LANDSCAPE	0.1	33			
TOTAL >				7125	0.04	285	138

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 49		
DMA 49	5040	ROOF	1.0	5040	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	13805	PAVEMENT	1.0	13805			
	1514	LANDSCAPE	0.1	151			
TOTAL >				18996	0.04	760	0

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 50		
DMA 50	0	ROOF	1.0	0	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	10360	PAVEMENT	1.0	10360			
	213	LANDSCAPE	0.1	21			
TOTAL >				10381	0.04	415	0

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 51		
DMA 51	0	ROOF	1.0	0	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	16501	PAVEMENT	1.0	16501			
	6861	LANDSCAPE	0.1	686			
TOTAL >				17187	0.04	687	0

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 52		
DMA 52	0	ROOF	1.0	0	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	9387	PAVEMENT	1.0	9387			
	200	LANDSCAPE	0.1	20			
TOTAL >				9407	0.04	376	0

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 53		
DMA 53	0	ROOF	1.0	0	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	13265	PAVEMENT	1.0	13265			
	5159	LANDSCAPE	0.1	516			
TOTAL >				13781	0.04	551	0

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 54		
DMA 54	3360	ROOF	1.0	3360	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	12861	PAVEMENT	1.0	12861			
	1898	LANDSCAPE	0.1	190			
TOTAL >				16411	0.04	656	0

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 55		
DMA 55	0	ROOF	1.0	0	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	7997	PAVEMENT	1.0	7997			
	572	LANDSCAPE	0.1	57			
TOTAL >				8054	0.04	322	0

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 56		
DMA 56	0	ROOF	1.0	0	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	6664	PAVEMENT	1.0	6664			
	296	LANDSCAPE	0.1	30			
TOTAL >				6694	0.04	268	0

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 57		
DMA 57	0	ROOF	1.0	0	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	12957	PAVEMENT	1.0	12957			
	3985	LANDSCAPE	0.1	399			
TOTAL >				13356	0.04	534	0

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 58		
DMA 58	0	ROOF	1.0	0	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	9014	PAVEMENT	1.0	9014			
	755	LANDSCAPE	0.1	76			
TOTAL >				9089	0.04	364	0

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 59		
DMA 59	6720	ROOF	1.0	6720	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	18813	PAVEMENT	1.0	18813			
	1528	LANDSCAPE	0.1	153			
TOTAL >				25686	0.04	1027	0

DMA NAME	DMA AREA (SF)	POST-PROJECT SURFACE TYPE	DMA RUNOFF FACTOR	DMA AREA X RUNOFF FACTOR	IMP NAME: BIO 60		
DMA 60	0	ROOF	1.0	0	IMP SIZING FACTOR	MIN. IMP SIZE (SF)	PRO. IMP SIZE (SF)
	5792	PAVEMENT	1.0	5792			
	285	LANDSCAPE	0.1	29			
TOTAL >				5821	0.04	233	0

NOT TREATING	
NOT TREATING NAME	NOT TREATING AREA
NT 1	0
NT 2	0
NT 3	0
NT 4	0
NT 5	0

SELF TREATING	
SELF TREATING NAME	SELF TREATING AREA
ST1	0
ST2	0
ST3	0

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DEER CREEK APARTMENTS

STORMWATER CONTROL PLAN TABLES

ACCLAIM COMPANIES

Prepared Under the Direction of:

REGISTERED PROFESSIONAL ENGINEER
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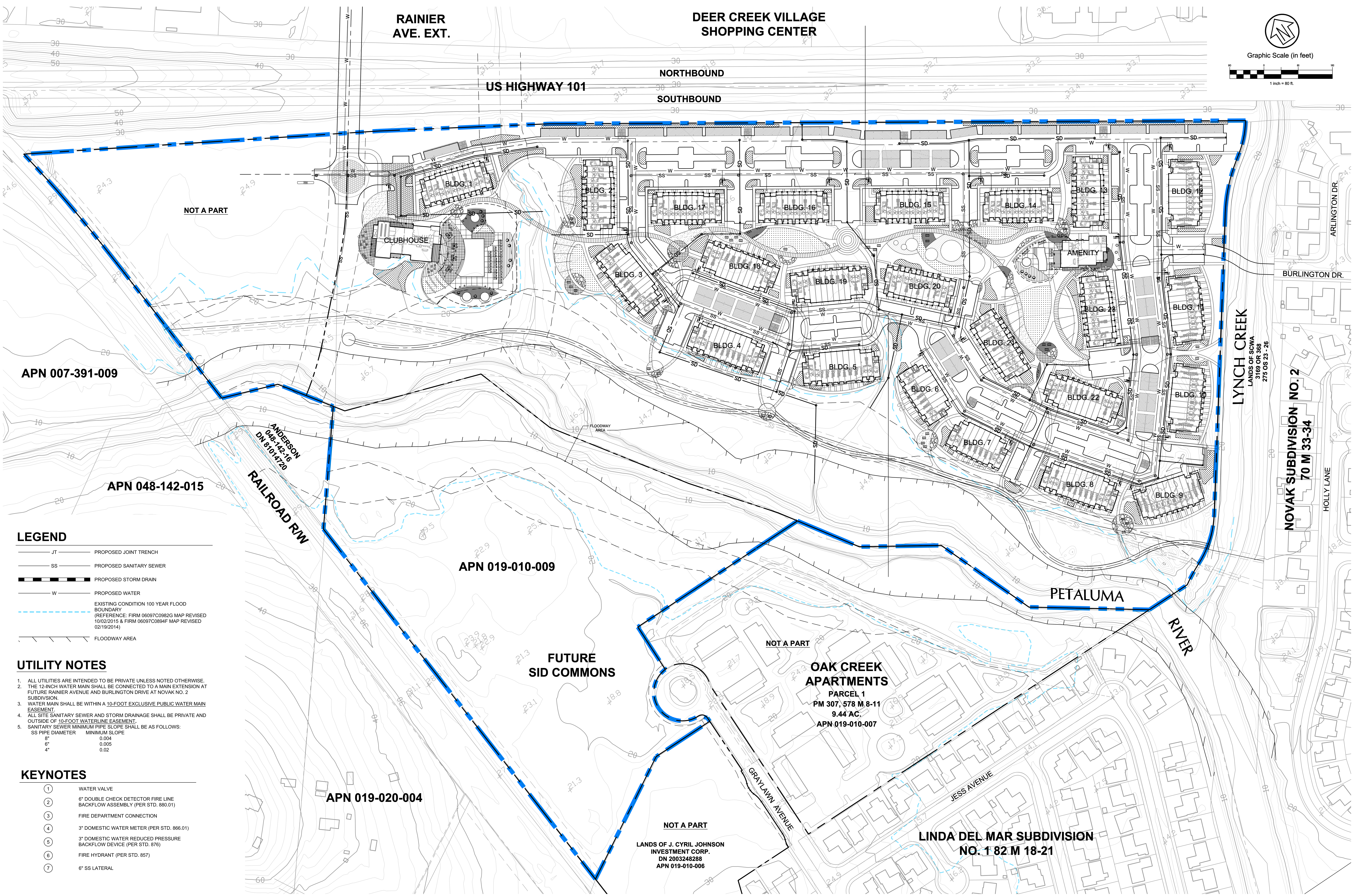

LEGEND

JT	PROPOSED JOINT TRENCH
SS	PROPOSED SANITARY SEWER
	PROPOSED STORM DRAIN
W	PROPOSED WATER
	EXISTING CONDITION 100 YEAR FLOOD BOUNDARY (REFERENCE: FIRM 06097C0982G MAP REVISED 10/02/2015 & FIRM 06097C0894F MAP REVISED 02/19/2014)
	FLOODWAY AREA

UTILITY NOTES

1. ALL UTILITIES ARE INTENDED TO BE PRIVATE UNLESS NOTED OTHERWISE.
2. THE 12-INCH WATER MAIN SHALL BE CONNECTED TO A MAIN EXTENSION AT FUTURE RAINIER AVENUE AND BURLINGTON DRIVE AT NOVAK NO. 2 SUBDIVSION.
3. WATER MAIN SHALL BE WITHIN A 10-FOOT EXCLUSIVE PUBLIC WATER MAIN EASEMENT.
4. ALL SITE SANITARY SEWER AND STORM DRAINAGE SHALL BE PRIVATE AND OUTSIDE OF 10-FOOT WATERLINE EASEMENT.
5. SANITARY SEWER MINIMUM PIPE SLOPE SHALL BE AS FOLLOWS:

SS PIPE DIAMETER	MINIMUM SLOPE
8"	0.004
6"	0.005
4"	0.02

KEYNOTES

1	WATER VALVE
2	6" DOUBLE CHECK DETECTOR FIRE LINE BACKFLOW ASSEMBLY (PER STD. 880.01)
3	FIRE DEPARTMENT CONNECTION
4	3" DOMESTIC WATER METER (PER STD. 866.01)
5	3" DOMESTIC WATER REDUCED PRESSURE BACKFLOW DEVICE (PER STD. 876)
6	FIRE HYDRANT (PER STD. 857)
7	6" SS LATERAL

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DEER CREEK APARTMENTS

PRELIMINARY UTILITY PLAN - OVERALL

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PRELIMINARY UTILITY PLAN - WEST

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DEER CREEK APARTMENTS

PRELIMINARY UTILITY PLAN - EAST

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AERIAL CONTEXT MAP

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