CIVIL

DECEMBER 20, 2018

STANDARD DRAWING LEGEND

FOR ENTIRE PLAN SET
(NOT TO SCALE)

EXISTING NOTE	TYPICAL NOTE TEXT	PROPOSED NOTE	EXISTING NOTE	TYPICAL NOTE TEXT	PROPOSED NOTE
	ONSITE PROPERTY LINE / R.O.W. LINE		OH	OVERHEAD WIRE	OH
	NEIGHBORING PROPERTY LINE / INTERIOR PARCEL LINE		T	UNDERGROUND TELEPHONE LINE	T
	EASEMENT LINE		C	UNDERGROUND CABLE LINE	C
	SETBACK LINE			STORM SEWER	
			S	SANITARY SEWER MAIN	S
	CONCRETE CURB & GUTTER	CURB AND GUTTER SPILL CURB / TRANSITION CURB DEPRESSED CURB AND GUTTER		HYDRANT	
			S	SANITARY MANHOLE	
			D	STORM MANHOLE	
	UTILITY POLE WITH LIGHT		WM	WATER METER	
	POLE LIGHT		WV	WATER VALVE	
	TRAFFIC LIGHT			GAS VALVE	
	UTILITY POLE			GAS METER	
	TYPICAL LIGHT			TYPICAL END SECTION	
	ACORN LIGHT			HEADWALL OR ENDWALL	
	TYPICAL SIGN			YARD INLET	
X	PARKING COUNTS	X		CURB INLET	
				CLEAN OUT	
170 169	CONTOUR LINE	190 187	E	ELECTRIC MANHOLE	E
TC 516.4 OR 516.4	SPOT ELEVATIONS	TC516.00 TC 516.00 BC 515.55	T	TELEPHONE MANHOLE	T
			EB	ELECTRIC BOX	EB
SAN #	SANITARY LABEL	SAN #	EP	ELECTRIC PEDESTAL	EP
X #	STORM LABEL	X #		MONITORING WELL	
SL	SANITARY SEWER LATERAL	SL		TEST PIT	
W	UNDERGROUND WATER LINE	W		BENCHMARK	
E	UNDERGROUND ELECTRIC LINE	E		BORING	
G	UNDERGROUND GAS LINE	G			

GENERAL NOTES:

1. THE PLAN IS BASED ON THE FOLLOWING DOCUMENTS AND INFORMATION

   A. ENTITLED: "ALTA/ACSM LAND TITLE SURVEY, KETTLER INC., 300 MORSE STREET, NE, A&T LOTS 805, 817, & 819, SQUARE 3587, DISTRICT OF COLUMBIA", PREPARED BY: BOHLER ENGINEERING, PROJECT NUMBER: DC142264, DATED: 2/26/15

   B. DIGITAL ARCHITECTURAL PLANS: ENTITLED: "815-18 MTW_-FLOOR PLAN - CIVIL - P01.DWG" PREPARED BY: DESIGN COLLECTIVE, DATE RECEIVED: 11/29/18

   C. DIGITAL ARCHITECTURAL PLANS: ENTITLED: "815-18 MTW BUILDING B_-FLOOR PLAN - CIVIL - LEVEL 1.DWG" PREPARED BY: DESIGN COLLECTIVE, DATE RECEIVED: 11/20/18

   D. DIGITAL ARCHITECTURAL PLANS: ENTITLED: "18 1017 MORSE ST - LEVEL 01.DWG" PREPARED BY: BRININSTOOL-LYNCH, DATE RECEIVED: 10/17/18

   E. DIGITAL ARCHITECTURAL PLANS: ENTITLED: "A-100P1.DWG" PREPARED BY: GENSLER, DATE RECEIVED: 10/11/18

   F. DIGITAL ARCHITECTURAL PLANS: ENTITLED: "1ST FLOOR.DWG" PREPARED BY: ECA, DATE RECEIVED: 10/23/18

   G. DIGITAL LANDSCAPE PLANS: ENTITLED: "L-SP-W1511.DWG" PREPARED BY: OCULUS, DATE RECEIVED: 9/28/18

2. LOCATION OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. ALL LOCATIONS AND SIZES ARE BASED ON UTILITY MARK OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE AS-BUILT PLANS AND UTILITY MARK OUT DOES NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE, AND TYPE BY THE PROPER UTILITY COMPANIES.

SHEET INDEX

DEVELOPER

KETTLER INC.
1751 PINNACLE DR. #700
MCLEAN, VA 22102

PROPERTY LINE

PROPERTY LINE

PROPERTY LINE

PART OF LOT 6, SQUARE 3587
BOOK 176 FOLIO 163
A&T LOTS 817 & 2001-2044
300 MORSE STREET, N.E.
CONDOMINIUM SQUARE 3587
BOOK 44 PAGE 33

A&T LOT 819,
SQUARE 3587

A&T LOT 805, SQUARE 3587
AREA=67,405 S.F. OR 1.5474 AC.

FLORIDA AVENUE, N.E.

MORSE STREET, N.E.

4TH STREET, N.E.

UNK

UNK

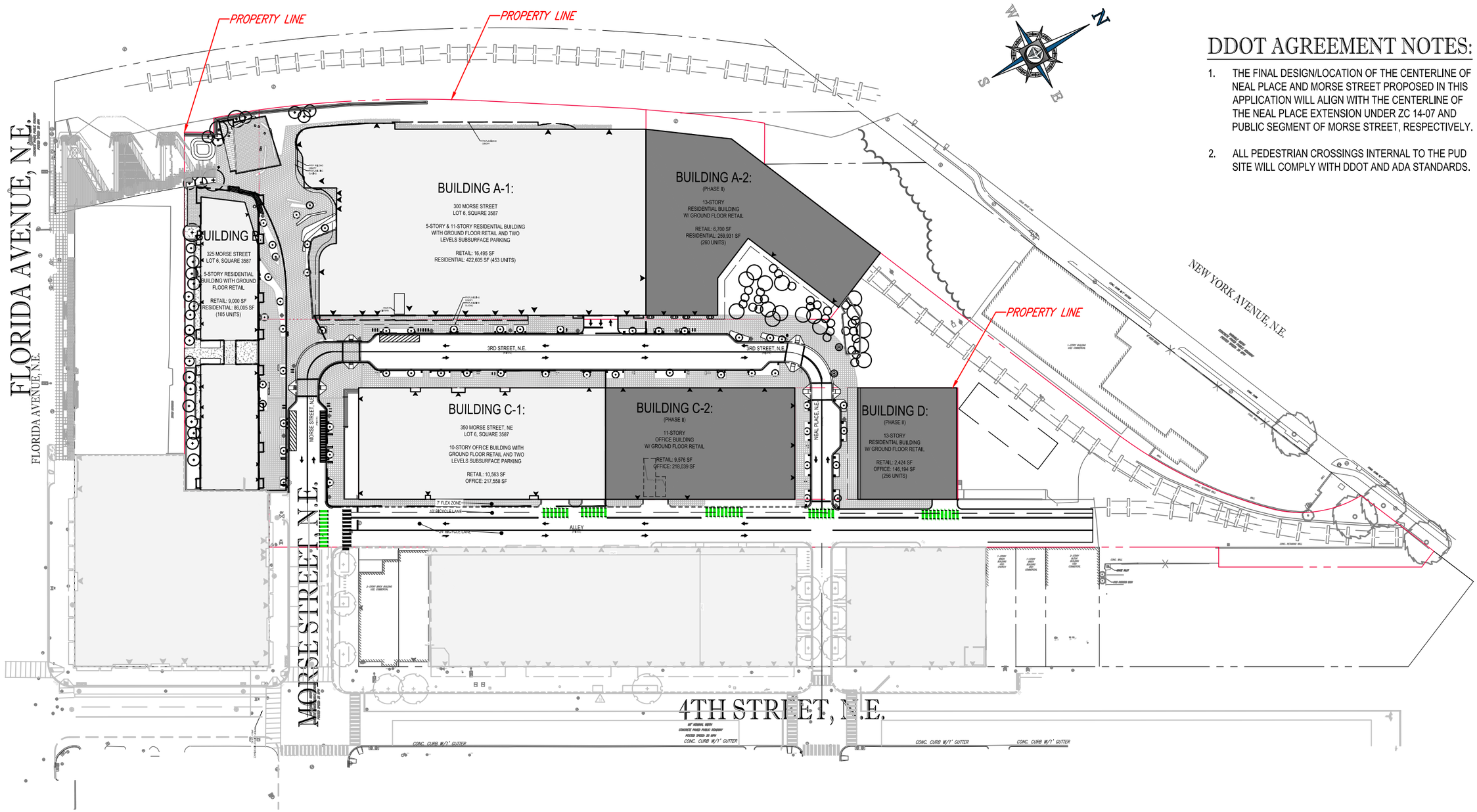
DEMOLISHED SURFACE FEATURES (UNLESS OTHERWISE NOTED)

0 50 100
1"=100'

EXISTING CONDITIONS / DEMOLITION PLAN

SCALE: 1" = 100'

14 December, 2018



ALLEY NOTE:

ALLEY IMPROVEMENTS BY OTHERS PER PUD NO. 14-07.

DDOT AGREEMENT NOTES:

1. THE FINAL DESIGN/LOCATION OF THE CENTERLINE OF NEAL PLACE AND MORSE STREET PROPOSED IN THIS APPLICATION WILL ALIGN WITH THE CENTERLINE OF THE NEAL PLACE EXTENSION UNDER ZC 14-07 AND PUBLIC SEGMENT OF MORSE STREET, RESPECTIVELY.

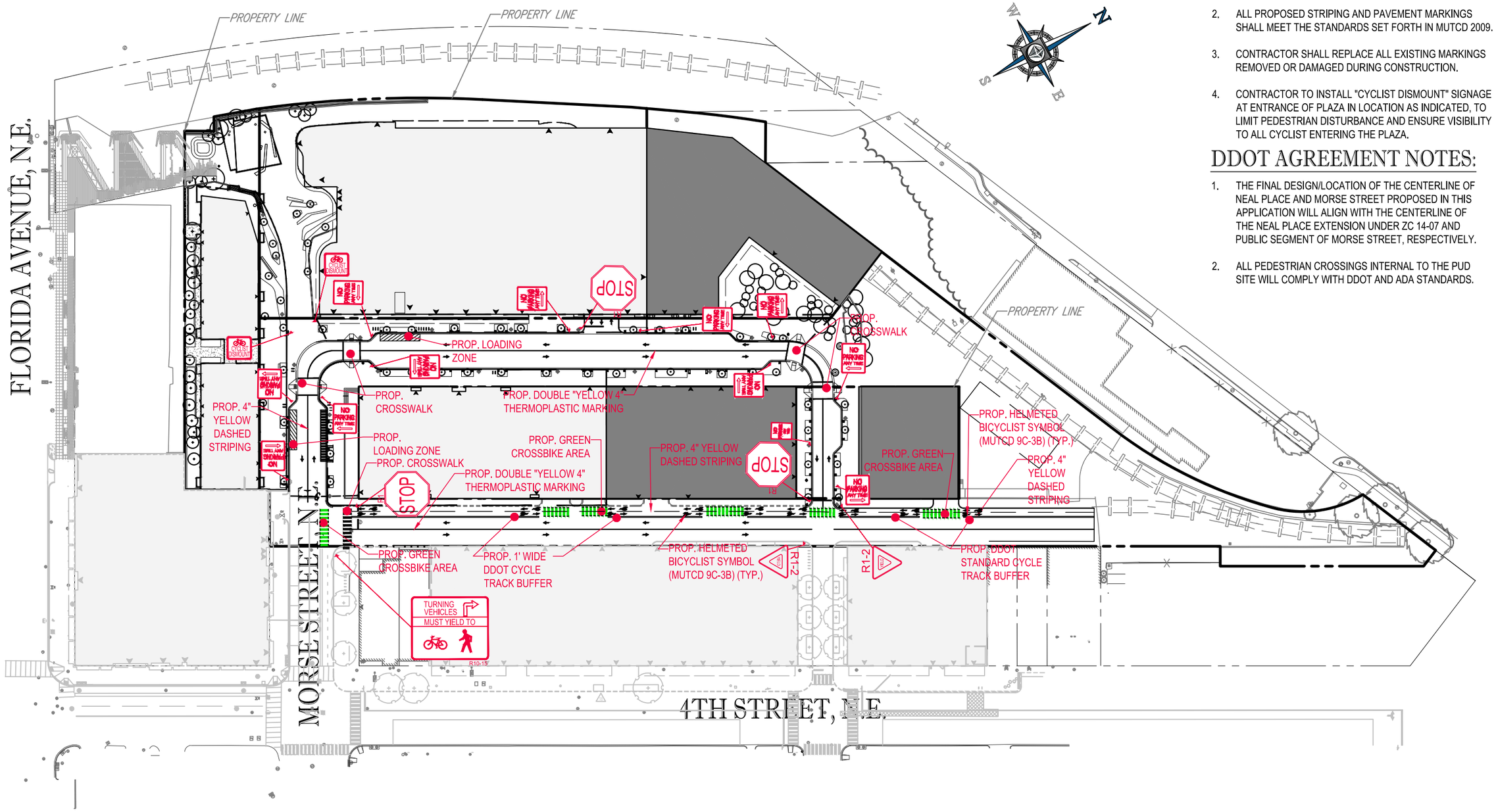
2. ALL PEDESTRIAN CROSSINGS INTERNAL TO THE PUD SITE WILL COMPLY WITH DDOT AND ADA STANDARDS.

SITE PLAN - STAGE II PUD

SCALE: 1" = 100'

0 50 100
1"=100'

14 December, 2018



SIGNAGE AND STRIPING NOTES:

1. ALL PROPOSED SIGNS SHALL COMPLY WITH MUTCD 2009.
2. ALL PROPOSED STRIPING AND PAVEMENT MARKINGS SHALL MEET THE STANDARDS SET FORTH IN MUTCD 2009.
3. CONTRACTOR SHALL REPLACE ALL EXISTING MARKINGS REMOVED OR DAMAGED DURING CONSTRUCTION.
4. CONTRACTOR TO INSTALL "CYCLIST DISMOUNT" SIGNAGE AT ENTRANCE OF PLAZA IN LOCATION AS INDICATED, TO LIMIT PEDESTRIAN DISTURBANCE AND ENSURE VISIBILITY TO ALL CYCLIST ENTERING THE PLAZA.

DDOT AGREEMENT NOTES:

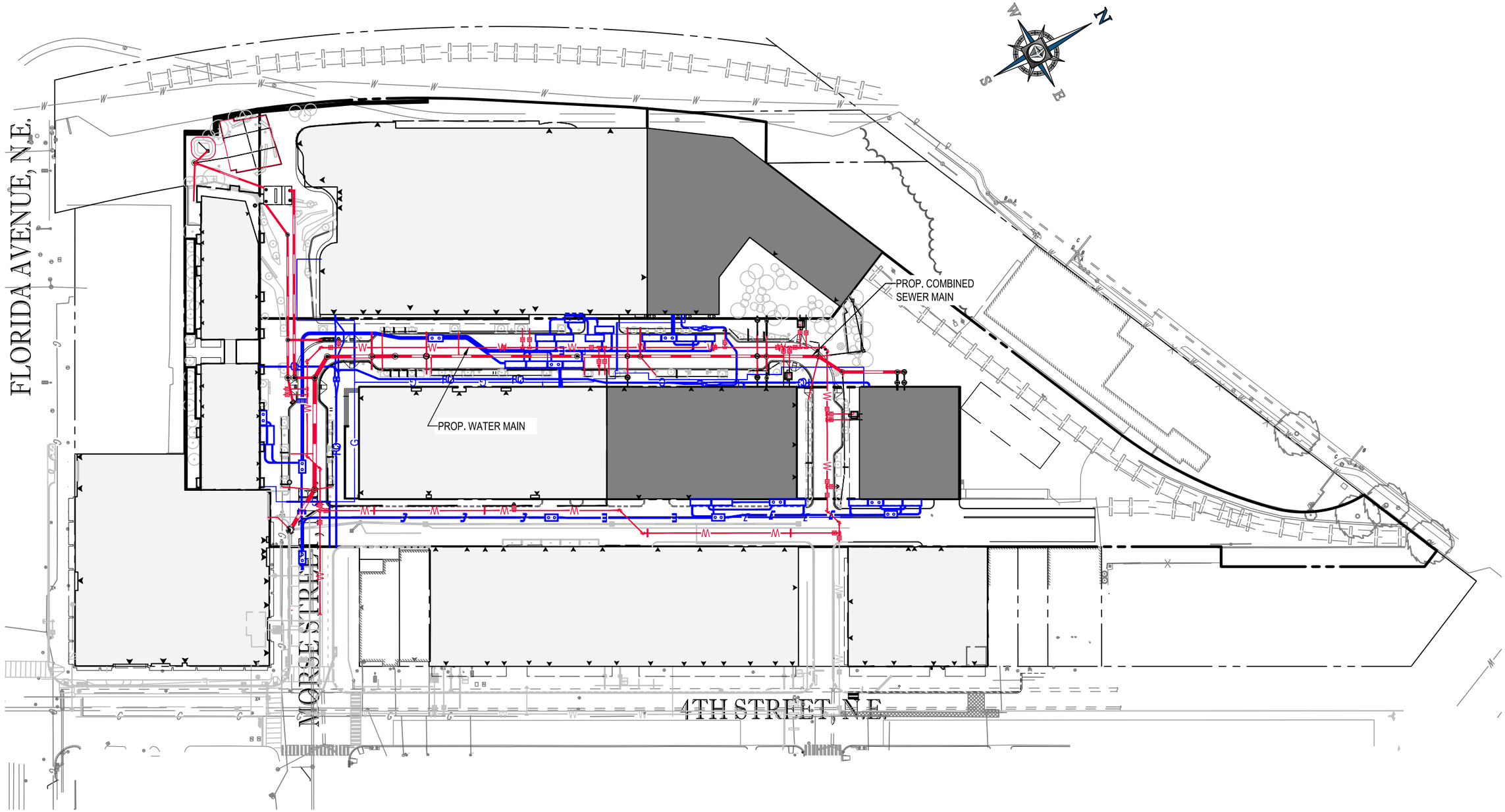
1. THE FINAL DESIGN/LOCATION OF THE CENTERLINE OF NEAL PLACE AND MORSE STREET PROPOSED IN THIS APPLICATION WILL ALIGN WITH THE CENTERLINE OF THE NEAL PLACE EXTENSION UNDER ZC 14-07 AND PUBLIC SEGMENT OF MORSE STREET, RESPECTIVELY.
2. ALL PEDESTRIAN CROSSINGS INTERNAL TO THE PUD SITE WILL COMPLY WITH DDOT AND ADA STANDARDS.

SIGNAGE AND STRIPING PLAN

SCALE: 1" = 100'

0 50 100
1"=100'

14 December, 2018

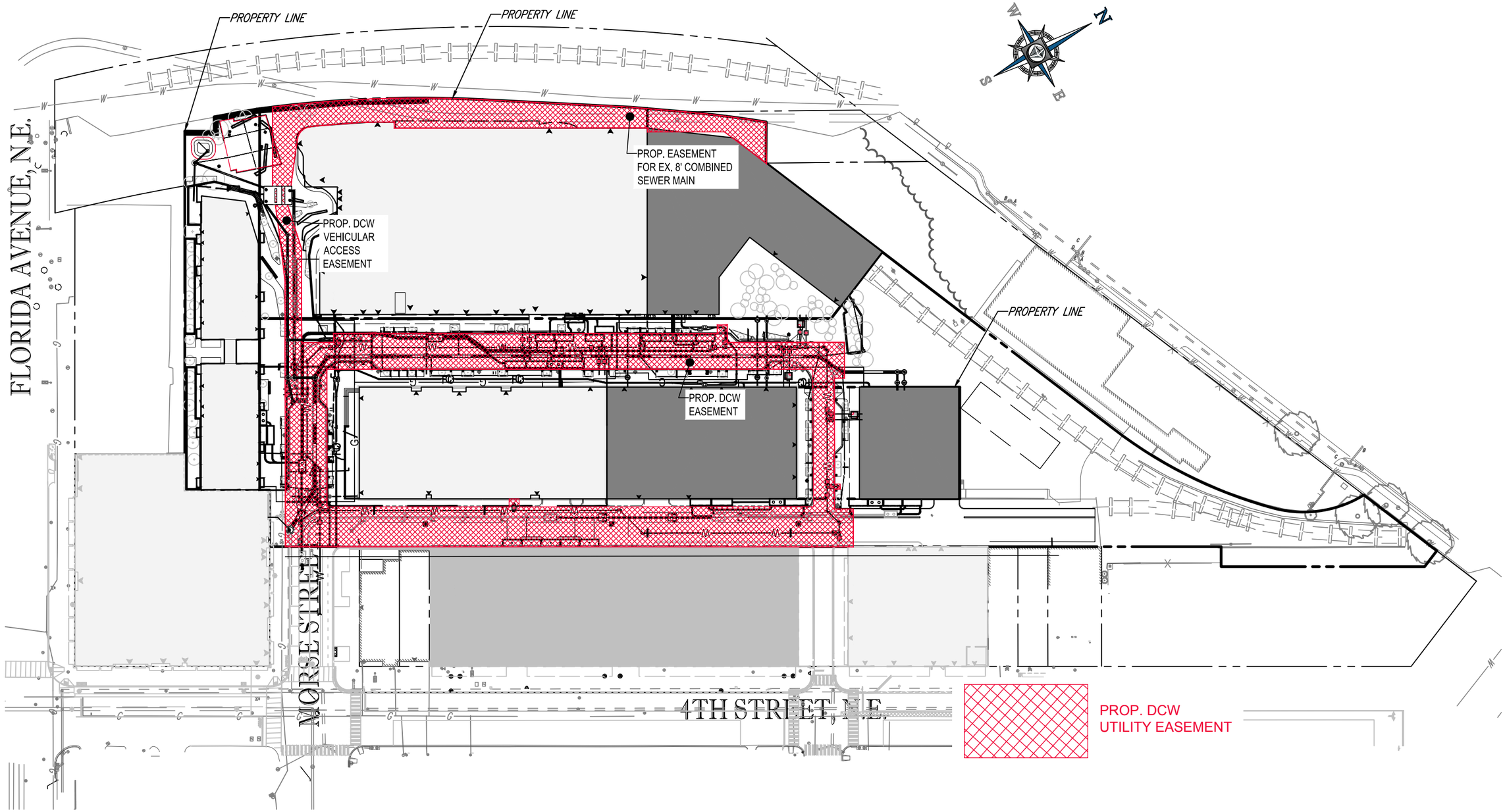


UTILITY PLAN

SCALE: 1" = 100'

0 50 100
1"=100'

14 December, 2018

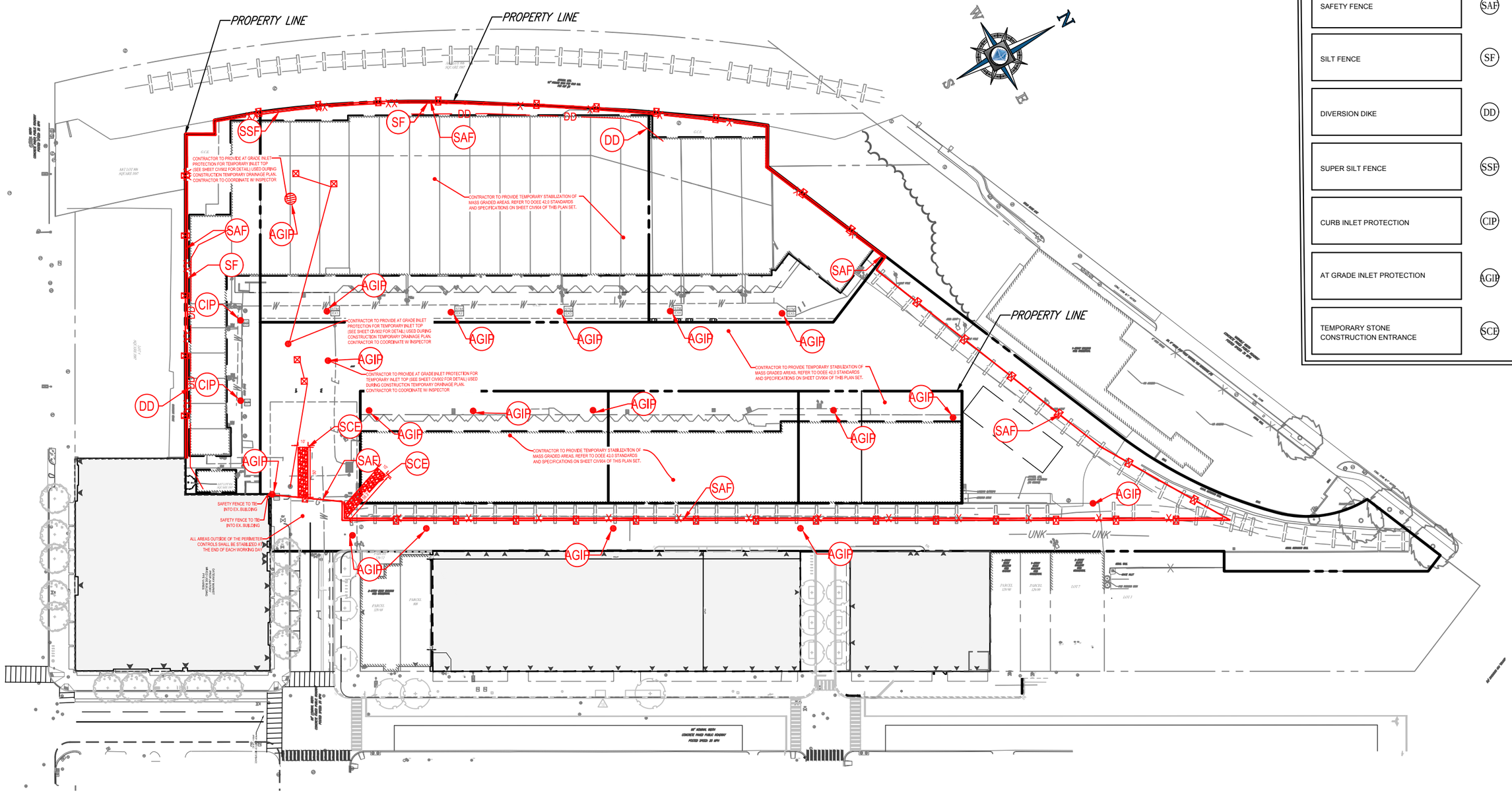


DC WATER EASEMENT EXHIBIT

SCALE: 1" = 100'

0 50 100
1"=100'

14 December, 2018



EROSION AND SEDIMENT CONTROL PLAN (PHASE I)

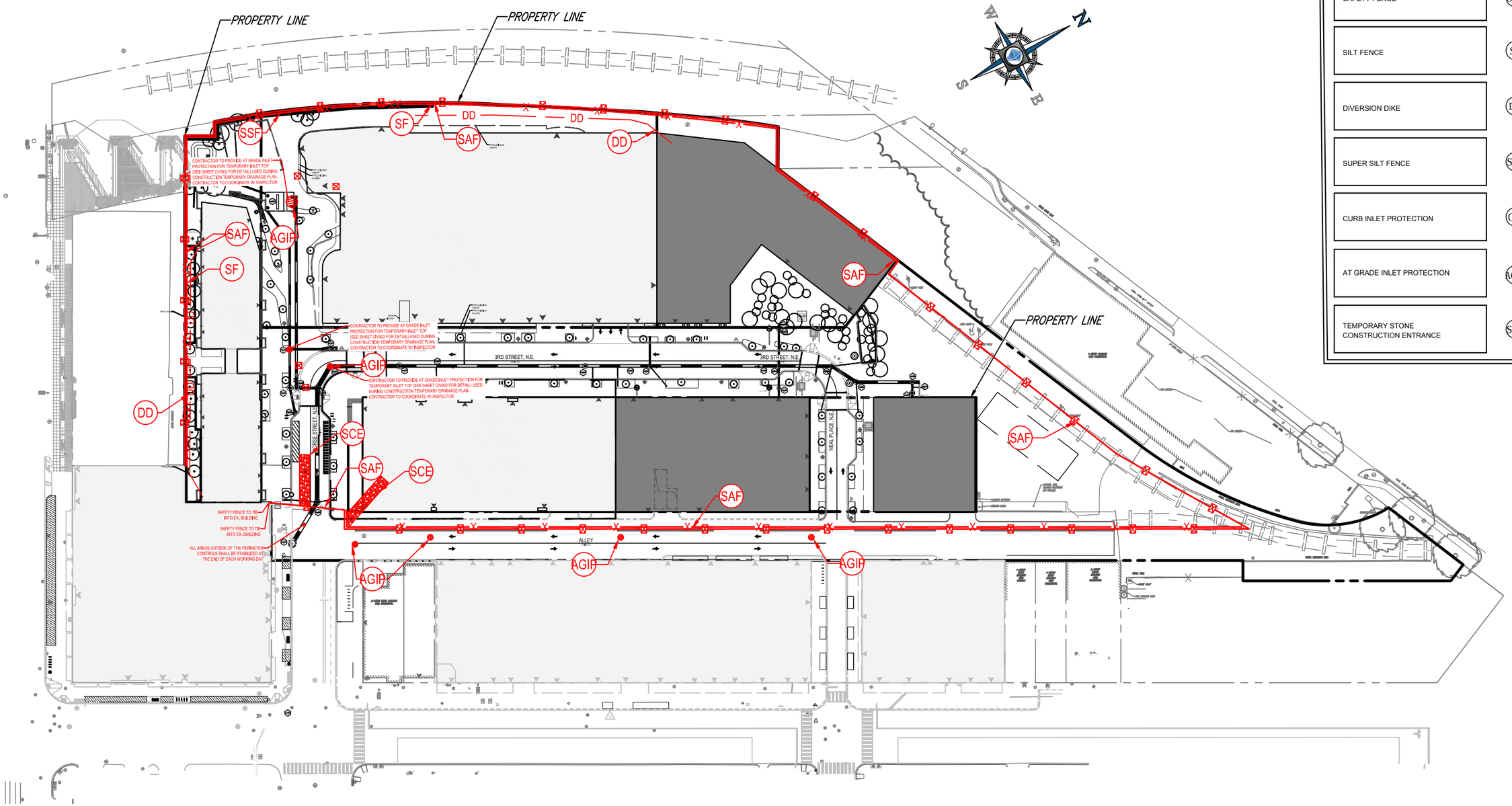
EROSION AND SEDIMENT CONTROL LEGEND

TITLE	KEY	SYMBOL
SAFETY FENCE	SAF	
SILT FENCE	SF	
DIVERSION DIKE	DD	
SUPER SILT FENCE	SSF	
CURB INLET PROTECTION	CIP	
AT GRADE INLET PROTECTION	AGIP	
TEMPORARY STONE CONSTRUCTION ENTRANCE	SCE	

0 50 100
1"=100'

SCALE: 1" = 100'

14 December, 2018



EROSION AND SEDIMENT CONTROL LEGEND

TITLE	KEY	SYMBOL
SAFETY FENCE	SAF	
SILT FENCE	SF	
DIVERSION DIKE	DD	
SUPER SILT FENCE	SSF	
CURB INLET PROTECTION	CIP	
AT GRADE INLET PROTECTION	AGIP	
TEMPORARY STONE CONSTRUCTION ENTRANCE	SCE	SCE

EROSION AND SEDIMENT CONTROL PLAN (PHASE II)

0 50 100
1"=100'

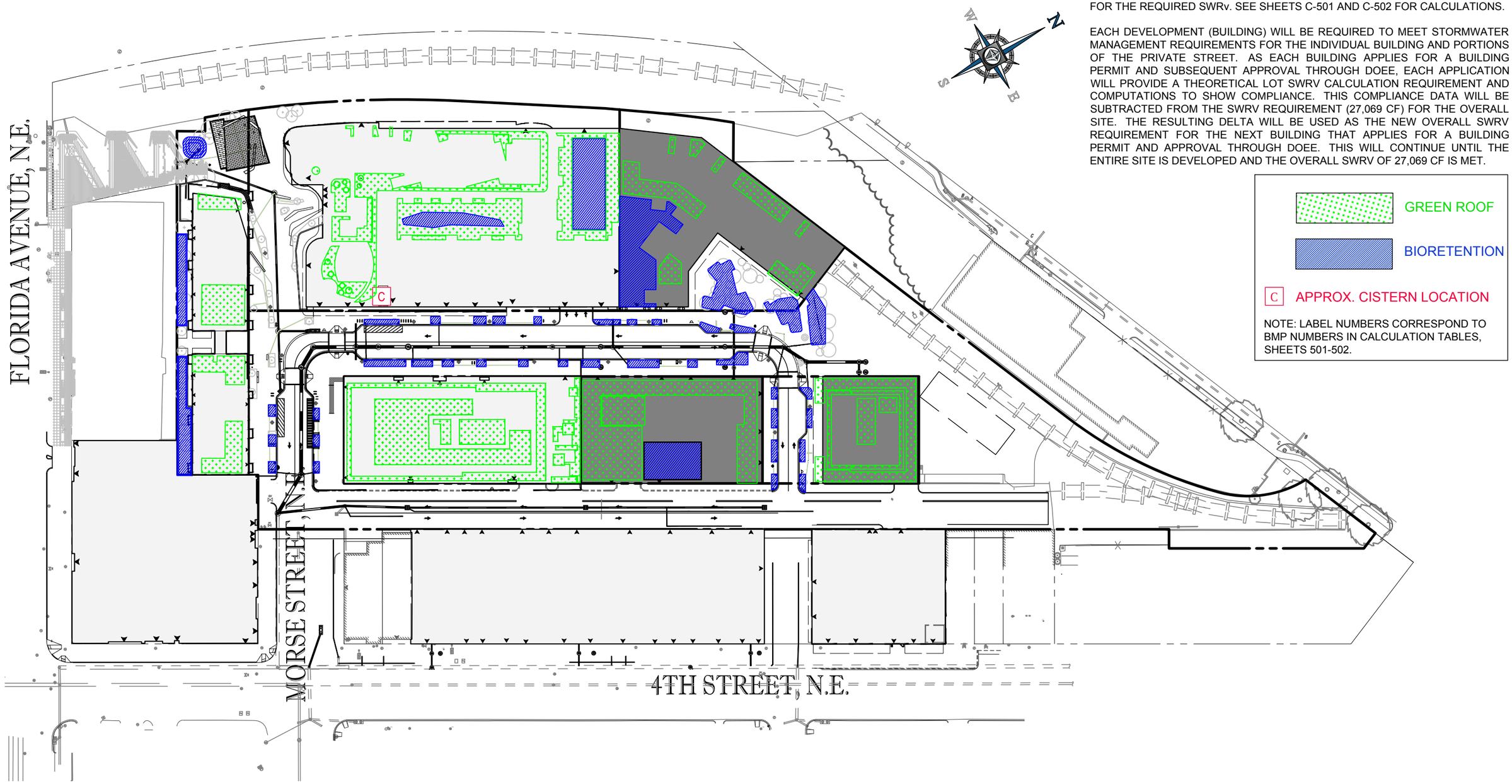
SCALE: 1" = 100'

14 December, 2018

STORMWATER MANAGEMENT PLAN NARRATIVE

THE TOTAL DISTURBED AREA IS 292,676 SF AND HAS A SWRv REQUIREMENT OF 27,069 CF. GREEN ROOFS, BIORETENTION FACILITIES, A CISTERN, AND STREETSCAPE BIORETENTION PLANTERS WILL BE IMPLEMENTED TO PROVIDE FOR THE REQUIRED SWRv. SEE SHEETS C-501 AND C-502 FOR CALCULATIONS.

EACH DEVELOPMENT (BUILDING) WILL BE REQUIRED TO MEET STORMWATER MANAGEMENT REQUIREMENTS FOR THE INDIVIDUAL BUILDING AND PORTIONS OF THE PRIVATE STREET. AS EACH BUILDING APPLIES FOR A BUILDING PERMIT AND SUBSEQUENT APPROVAL THROUGH DOEE, EACH APPLICATION WILL PROVIDE A THEORETICAL LOT SWRV CALCULATION REQUIREMENT AND COMPUTATIONS TO SHOW COMPLIANCE. THIS COMPLIANCE DATA WILL BE SUBTRACTED FROM THE SWRV REQUIREMENT (27,069 CF) FOR THE OVERALL SITE. THE RESULTING DELTA WILL BE USED AS THE NEW OVERALL SWRV REQUIREMENT FOR THE NEXT BUILDING THAT APPLIES FOR A BUILDING PERMIT AND APPROVAL THROUGH DOEE. THIS WILL CONTINUE UNTIL THE ENTIRE SITE IS DEVELOPED AND THE OVERALL SWRV OF 27,069 CF IS MET.



GREEN ROOF

BIORETENTION

C APPROX. CISTERN LOCATION

NOTE: LABEL NUMBERS CORRESPOND TO BMP NUMBERS IN CALCULATION TABLES, SHEETS 501-502.

STORMWATER MANAGEMENT PLAN - OVERALL

SCALE: 1" = 100'

0 50 100
1"=100'

14 December, 2018

BUILDING A1

GREEN ROOF

GREEN ROOF#	SURFACE AREA (SF)	TOTAL CDA (SF)	EX. IMP (SF)	PROP. IMP (SF)	MEDIA DEPTH (in.)	DRAINAGE LAYER DEPTH (IN)	LOCATION	STORAGE PROVIDED	Max SWRv	IRRIGATED? IF YES, 50% STORAGE APPLIED	50% STORAGE	**SWRv PROVIDED**	NOTES
1 - 1	46	46	46	46	42	1	Building A-1 Roof	86	6	no	N/A	6	
1 - 2	48	48	48	48	42	1	Building A-1 Roof	89	6	no	N/A	6	
1 - 3	28	28	28	28	42	1	Building A-1 Roof	52	4	no	N/A	4	
1 - 4	76	76	76	76	42	1	Building A-1 Roof	142	10	no	N/A	10	
1 - 5	66	66	66	66	42	1	Building A-1 Roof	123	9	no	N/A	9	
1 - 6	2,960	2,960	2,960	2,960	6	1	Building A-1 Roof	984	398	no	N/A	398	
1 - 7	166	166	166	166	12	1	Building A-1 Roof	98	22	no	N/A	22	
1 - 8	261	261	261	261	12	1	Building A-1 Roof	165	38	no	N/A	38	
1 - 9	52	52	52	52	42	1	Building A-1 Roof	97	7	no	N/A	7	
1 - 10	445	445	445	445	6	1	Building A-1 Roof	148	60	no	N/A	60	
1 - 11	705	705	705	705	12	1	Building A-1 Roof	414	95	no	N/A	95	
1 - 12	681	681	681	681	6	1	Building A-1 Roof	226	92	no	N/A	92	
1 - 13	50	50	50	50	36	1	Building A-1 Roof	80	7	no	N/A	7	
1 - 14	28	28	28	28	36	1	Building A-1 Roof	45	4	no	N/A	4	
1 - 15	13	13	13	13	36	1	Building A-1 Roof	21	2	no	N/A	2	
1 - 16	20	20	20	20	36	1	Building A-1 Roof	32	3	no	N/A	3	
1 - 17	20	20	20	20	36	1	Building A-1 Roof	32	3	no	N/A	3	
1 - 18	13	13	13	13	36	1	Building A-1 Roof	21	2	no	N/A	2	
1 - 19	20	20	20	20	36	1	Building A-1 Roof	32	3	no	N/A	3	
1 - 20	20	20	20	20	36	1	Building A-1 Roof	32	3	no	N/A	3	
1 - 21	20	20	20	20	36	1	Building A-1 Roof	32	3	no	N/A	3	
1 - 22	28	28	28	28	36	1	Building A-1 Roof	45	4	no	N/A	4	
1 - 23	20	20	20	20	36	1	Building A-1 Roof	32	3	no	N/A	3	
1 - 24	35	35	35	35	10	1	South Courtyard	18	5	no	N/A	5	
1 - 25	44	44	44	44	10	1	South Courtyard	22	6	no	N/A	6	
1 - 26	55	55	55	55	10	1	South Courtyard	28	7	no	N/A	7	
1 - 27	3,465	3,465	3,465	3,465	10	1	South Courtyard	1741	466	no	N/A	466	
1 - 28	51	51	51	51	10	1	South Courtyard	26	7	no	N/A	7	
1 - 29	144	144	144	144	10	1	South Courtyard	72	19	no	N/A	19	
1 - 30	1,922	1,922	1,922	1,922	10	1	North Courtyard	966	259	yes	483	259	50% STORAGE CREDIT APPLIED
1 - 31	1,379	1,379	1,379	1,379	10	1	North Courtyard	693	186	yes	346	186	50% STORAGE CREDIT APPLIED
TOTAL SA	12,901												
							TOTAL	5,765	1,736			1,736	

MEDIA RETENTION VALUE	0.51	HYDROTECH (UrbeTop Growing Media)
DRAINAGE LAYER RETENTION VALUE	0.93	DOEE

BIORETENTION

FACILITY	SURFACE AREA, BOT. (SF)	SURFACE AREA, TOP (SF)	TOTAL CDA (SF)	EX. IMP (SF)	PROP. IMP (SF)	FREEBOARD (FT)	PONDING DEPTH (FT)	MEDIA DEPTH (FT)	GRAVEL DEPTH (FT)	STORAGE PROVIDED	SWRv (CF)	Max SWRv	**SWRv PROVIDED**	NOTES
1 - 32	3,196	3,196	21,670	21670	21,670	0.5	1.5	2	1	7,670	4,602	2,916	2,916	North Courtyard
1 - 33	1,202	1,202	12,972	12972	12,972	0.5	1.5	2	1	2,885	1,731	1,746	1,731	South Courtyard
									TOTAL	10,555	6,333	4,662	4,647	

CISTERN

Size (Gal.)	Size (CF)	CDA (SF)	Max SWRv	Storage (CF)	SWRv Provided (CF)
15000	2005.215	6876	858	869	858.10

Building A1	
SWRv provided:	7242 CF
(SRCs used:	0 CF)
Storage provided:	17189 CF

BUILDING B

BIORETENTION

FACILITY #	SURFACE AREA, BOT. (SF)	SURFACE AREA, TOP (SF)	TOTAL CDA (SF)	EX. IMP (SF)	PROP. IMP (SF)	FREEBOARD (FT)	PONDING DEPTH (FT)	MEDIA DEPTH (FT)	GRAVEL DEPTH (FT)	STORAGE PROVIDED	SWRv (CF)	Max SWRv	**SWRv PROVIDED**
1	802	802	4,608	4,608	4,608	0.5	0.5	3	1	1,323	794	620	620
2	1,360	1,360	7,813	7,813	7,813	0.5	0.5	3	1	2,244	1,346	1,052	1,052
		2,162	10,259						TOTAL	3,567	2,140	1,672	**1,672**

GREEN ROOF

GREEN ROOF #	SURFACE AREA (SF)	TOTAL CDA (SF)	MEDIA DEPTH (in.)	MEDIA RETENTION VALUE	DRAINAGE LAYER DEPTH (in.)	DRAINAGE RETENTION VALUE	STORAGE PROVIDED	Max SWRv	**SWRv PROVIDED**	NOTES
1	634	634	4	0.51	1	0.93	157	85	85	extensive
2	1890	1890	4	0.51	1	0.93	468	254	254	extensive
3	1159	1159	4	0.51	1	0.93	287	156	156	extensive
4	1336	1336	4	0.51	1	0.93	331	180	180	extensive
TOTAL	5019	5019					1242		**675**	

	VALUE	**BRAND**
MEDIA	0.51	HYDROTECH
DRAINAGE LAYER	0.93	ROCKWOOL (HYDROTECH)

Building B	
SWRv provided:	2347 CF
(SRCs used:	0 CF)
Storage provided:	4810 CF

BUILDING A2

GREEN ROOF

GREEN ROOF#	SURFACE AREA (SF)	TOTAL CDA (SF)	PROP. IMP (SF)	MEDIA DEPTH (in.)	DRAINAGE LAYER DEPTH (IN)	LOCATION	STORAGE PROVIDED	Max SWRv	SWRv	**SWRv PROVIDED**	NOTES
1	4,500	4,500	0	8	1		1406	606	606	606	lower roof
						TOTAL	1,406	606		606	

MEDIA RETENTION VALUE	0.45	per manufactuer (TBD)
DRAINAGE LAYER RETENTION VALUE	0.15	DOEE

BIORETENTION

FACILITY	SURFACE AREA, BOT. (SF)	SURFACE AREA, TOP (SF)	TOTAL CDA (SF)	PROP. IMP (SF)	PROP. PERVIOUS (SF)	FREEBOARD (FT)	PONDING DEPTH (FT)	MEDIA DEPTH (FT)	GRAVEL DEPTH (FT)	STORAGE PROVIDED	SWRv (CF)	Max SWRv	**SWRv PROVIDED**
A	1,498	1,498	3,298	1,800	0	0.5	0.5	2.5	0.833	2,185	1,311	444	444
B	367	367	1,817	1,150	300	0.5	0.5	2.5	0.833	535	321	215	215
podium	4,200	4200	20,000	15,800.0	0	0.5	0.5	2.5	0.833	6,125	3,675	2,692	2,692
									TOTAL	8,845	1,632	659	3,350

Tree Planting

Location	#	SWRv (CF)
In Bioretention	5	50

Building A2	
SWRv provided:	4150 CF
(SRCs used:	144 CF)
Storage provided:	10251 CF

BUILDING C1

GREEN ROOF

GREEN ROOF #	SURFACE AREA (SF)	TOTAL CDA (SF)	MEDIA DEPTH (in.)	MEDIA RETENTION VALUE	DRAINAGE LAYER DEPTH (in.)	DRAINAGE RETENTION VALUE	STORAGE PROVIDED	Max SWRv	**SWRv PROVIDED**
1	6823	6823	6	0.48	1	0.15	1723	918	918
2	308	308	6	0.48	1	0.15	78	41	41
3	1226	1226	6	0.48	1	0.15	310	165	165
4	3767	3767	8	0.48	1	0.15	1253	507	507
5	75	75	42	0.48	1	0.15	127	10	10
6	136	136	42	0.48	1	0.15	230	18	18
7	107	107	18	0.48	1	0.15	78	14	14
8	106	106	42	0.48	1	0.15	179	14	14
9	136	136	42	0.48	1	0.15	230	18	18
10	158	158	42	0.48	1	0.15	267	21	21
11	690	690	18	0.48	1	0.15	505	93	93
TOTAL	13532	13532					4981		**1821**

Building C1	
SWRv provided:	3161 CF
(SRCs used:	1340 CF)
Storage provided:	4981 CF

STORMWATER MANAGEMENT PLAN CALCULATIONS - OVERALL

INFRASTRUCTURE

STANDARD BIORETENTION

FACILITY (Drainage Area #)	SURFACE AREA, BOT. (SF)	SURFACE AREA, TOP (SF)	TOTAL CDA (SF)	PROP. IMP (SF)	FREEBOARD (FT)	PONDING DEPTH (FT)	MEDIA DEPTH (FT)	GRAVEL DEPTH (FT)	STORAGE PROVIDED	SWRv (CF)	Max SWRv	**SWRv PROVIDED**
1	184	184	2,446	2,446	0.83	0.25	2.50	1.25	253	152	329	152
2	80	80	1,636	1,636	0.83	0.25	2.50	1.25	110	66	220	66
3	104	104	727	727	0.83	0.25	2.50	1.25	143	86	98	86
4	104	104	1,562	1,562	0.83	0.25	2.50	1.25	143	86	210	86
5	64	64	2,360	2,360	0.83	0.25	2.50	1.25	88	53	318	53
7	47	47	860	860	0.83	0.25	2.50	1.25	65	39	116	39
8	47	47	4,923	4,195	0.83	0.25	2.50	1.25	65	39	590	39
11	306	306	2,036	2,036	0.83	0.25	2.50	1.25	421	252	274	252
12	154	154	1,116	1,116	0.83	0.25	2.50	1.25	212	127	150	127
13	84	84	1,312	1,312	0.83	0.25	2.50	1.25	116	69	177	69
14	70	70	1,154	1,154	0.83	0.25	2.50	1.25	96	58	155	58
15	70	70	1,508	1,508	0.83	0.25	2.50	1.25	96	58	203	58
16	69	69	887	887	0.83	0.25	2.50	1.25	95	57	119	57
17	144	144	1,719	1,719	0.83	0.25	2.50	1.25	198	119	231	119
18	265	265	2,278	2,278	0.83	0.25	2.50	1.25	364	219	307	219
19	76	76	1,180	1,180	0.83	0.25	2.50	1.25	105	63	159	63
20	282	282	2,409	2,409	0.83	0.25	2.50	1.25	388	233	324	233
21	96	96	2,144	2,144	0.83	0.25	2.50	1.25	132	79	289	79
22	72	72	1,048	1,048	0.83	0.25	2.50	1.25	99	59	141	59
24	72	72	926	926	0.83	0.25	3.50	1.25	117	70	125	70
25	96	96	1,120	1,120	0.83	0.25	5.50	1.25	204	122	151	122
26	72	72	2,574	2,574	0.83	0.25	5.00	1.25	144	86	346	86
35	123	561	27,060	17,360	0.50	1.50	6.00	1.25	759	455	2,680	455
36	874	874	8,847	6,334	0.25	1.50	2.00	1.25	2,185	1,311	941	941
								TOTAL	6,596	3,958	8,653	3,588

STANDARD BIORETENTION

FACILITY (Drainage Area #)	SURFACE AREA, BOT. (SF)	SURFACE AREA, TOP (SF)	TOTAL CDA (SF)	PROP. IMP (SF)	FREEBOARD (FT)	PONDING DEPTH (FT)	MEDIA DEPTH (FT)	GRAVEL DEPTH (FT) ABOVE UNDERDRAIN	STORAGE PROVIDED	SWRv (CF)	Max SWRv	**SWRv PROVIDED**
6	130	130	1,381	1,381	0.83	0.25	2.50	0.17	122	73	186	73
9	270	270	4,464	4,434	0.83	0.25	2.50	0.17	254	153	598	153
10	85	85	3,649	3,165	0.83	0.25	2.50	0.17	80	48	443	48
23	96	96	96	96	0.83	0.00	0.00	0	-	-	13	-
27	72	72	673	673	0.83	0.25	3.83	0.17	92	55	91	55
28	97	97	1,045	1,045	0.83	0.25	3.33	0.17	112	67	141	67
29	120	120	705	705	0.83	0.25	4.00	0.17	158	95	95	95
30	100	100	794	794	0.83	0.25	3.67	0.17	123	74	107	74
31	139	139	619	619	0.83	0.25	3.50	0.17	166	99	83	83
32	108	108	834	834	0.83	0.25	3.00	0.17	115	69	112	69
33	95	95	825	825	0.83	0.25	2.50	0.17	89	54	111	54
34	140	140	1,143	1,143	0.83	0.25	2.50	0.17	132	79	154	79
								TOTAL	1,444	866	2,133	850

PERMEABLE PAVING

Location	SA (SF)	SWRv (CF)	Storage (CF)	Gravel D(ft)
37	2,299	103	1609	2

Infrastructure	
image snips to include:	bio, Per. Pave., trees
SWRv provided:	4308 CF
(SRCs used:	1931 CF)
Storage provided:	9649 CF

BUILDING C2

BIORETENTION

FACILITY	SURFACE AREA, BOT. (SF)	SURFACE AREA, TOP (SF)	TOTAL CDA (SF)	PROP. IMP (SF)	FREEBOARD (FT)	PONDING DEPTH (FT)	MEDIA DEPTH (FT)	GRAVEL DEPTH (FT)	STORAGE PROVIDED	SWRv (CF)	Max SWRv	**SWRv PROVIDED**
6	2,350	2,350	10,610	10,610	0.50	1.00	2.00	1	4,465	2,679	1,428	1,428
								TOTAL	4,465	2,679	1,428	1,428

GREEN ROOF

GREEN ROOF#	SURFACE AREA (SF)	TOTAL CDA (SF)	PROP. IMP (SF)	MEDIA DEPTH (in.)	DRAINAGE LAYER DEPTH (IN)	LOCATION	STORAGE PROVIDED	Max SWRv	**SWRv PROVIDED**	NOTES
13	8,680	8,680	8,680	5	1		1953	1168	1168	
14	1,370	1,370	1,370	3	1		192	184	184	
						TOTAL	2,145	1,353	1,353	

MEDIA RETENTION VALUE	0.51	HYDROTECH (Litetop Growing Media)
DRAINAGE LAYER RETENTION VALUE	0.15	DOEE

Building C2	
SWRv provided:	2780 CF
(SRCs used:	0 CF)
Storage provided:	6610 CF

BUILDING D

GREEN ROOF

GREEN ROOF#	SURFACE AREA (SF)	TOTAL CDA (SF)	PROP. IMP (SF)	MEDIA DEPTH (in.)	DRAINAGE LAYER DEPTH (IN)	LOCATION	STORAGE PROVIDED	Max SWRv	**SWRv PROVIDED**
Penthouse	3,420	3,420	0	10	1	Building D	1496	460	460
Upper Roof	492	492	0	8	1	Building D	173	66	66
Upper Roof	727	727	0	8	1	Building D	256	98	98
Upper Roof	913	913	0	8	1	Building D	322	123	123
Upper Roof	287	287	0	10	1	Building D	126	39	39
						TOTAL	2,373	786	786

MEDIA RETENTION VALUE	0.51	HYDROTECH
DRAINAGE LAYER RETENTION VALUE	0.15	DOEE

Building D	
SWRv provided:	1563 CF
(SRCs used:	777 CF)
Storage provided:	2373 CF

OVERALL SUMMARY

OVERALL SUMMARY	
TOTAL SWRv Required:	27069 CF
TOTAL SWRv Provided:	25551 CF
TOTAL Storage Required:	50500 CF
TOTAL Storage Provided:	55863 CF
TOTAL SRCs used:	4192 CF

(NOTE: as required, more than 50% of the SWRv credit is achieved using BMPs)