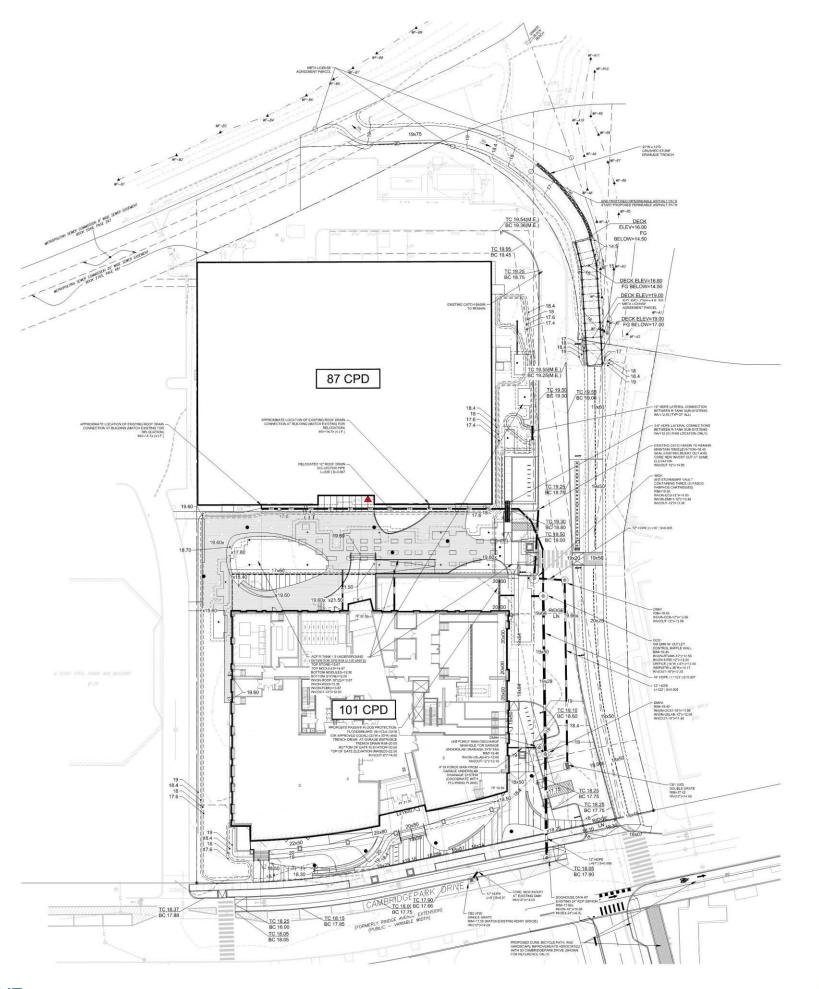
SITE GRADING, DRAINAGE AND UTILITY NOTES

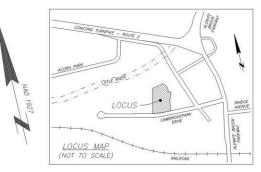
- 1. ALL DRAINAGE PIPES SHALL BE ADS N12 CORRUGATED HIGH DENSITY POLYETHYLENE UNLESS OTHERWISE INDICATED. 2. ALL SEWER PIPES SHALL BE 8-INCH DIAMETER SDR 35 POLYVINYL CHLORIDE UNLESS OTHER INDICATED.
- ALL DRAINAGE AND SEWER MANHOLES SHALL BE 4-FOOT INTERIOR DIAMETER PRECAST REINFORCED CONCRETE UNLESS OTHERWISE INDICATED.
- ALL CATCH BASINS SHALL BE PRECAST REINFORCED CONCRETE WITH HOODS AND 6' DEEP SUMPS PER CAMBRIDGE REQUIREMENTS.
- 5. STORMSAFE WATER QUALITY VAULT SHALL BE INSTALLED I
- UNDERGROUND DETENTION SYSTEM SHALL CONSIST OF ACF R.TANK 15 MODULES LINED W IMPERNEABLE POLYTHYLENE LINER AND EMBEDDED IN CRUBENDED STORE, F.TANK SYSTEM SHALL INSTALLED PER MANUFACTURERS STANDARDS AND SPECIFICATION AND SPECIFICATION OF AND PER MANUFACTURER'S STA TE WITH MANUFACTURER ON INSPECTIONS, IF RECOMMEN DS AND SPECI MANUFACTURER'S
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- THE SITE CONTRACTOR SHALL VERIFY THE LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES AND RAINAGE INFRASTRUCTURE PRIOR TO TAPPING INTO, CROSSING, OR EXTENDING THEM. IF THE NEW NORK POSES A CONFLICT WITH EXISTING UTILITIES, THE ENGINEER SHALL BE NOTIFIED PRIOR TO THE SURTRACTOR CONTINUING THE SITE COM
- THE SITE CONTRACTOR SHALL KEEP ACCURATE AND NEAT TIES TO ALL SUBSURFACE UTILITIES COPIES OF THESE TIES SHALL BE PROVIDED TO THE CITY OF CAMBRIDGE AND THE ENGINEER AT THE COMPLETION OF SITE WORK.
- 11. REFER TO PLUMBING PLANS BY OTHERS FOR PLUMBING MODIFICATIONS WITHIN THE EXISTING
- DGE WATER DEPARTMENT, CAMBRIDGE PUBLIC WORKS DEPARTMENT, AND CAMBRIDGE RING DEPARTMENT SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO START OF UCTION.
- THE SITE CONTRACTOR SHALL OBTAIN, AT A MINIMUM, A WATER WORKS DEMOLITION PER WATER WORKS CONSTRUCTION PERMIT. STREET OBSTRUCTION PERMIT, TRAFFIC MANAGE DETOUR PLAN, AND ANY OTHER NECESSARY PERMITS PRIOR TO DEMOLITION AND/OR INSTALL OF EXISTING AND PROPOSED WATER SERVICES SHOWN HERECOM.
- CAMBRIDGE WATER DEPARTMENT SHALL BE NOTIFIED A MINIMUM OF 72 HOURS PRIOR T CONDUCTING A FIRE PUMP TEST. CONTACT NUMBER TO SCHEDULE FIRE PUMP TEST IS (617) 349-7754
- 15. ALL WORK SHALL BE PERFORMED BY A CITY OF CAMBRIDGE LICENSED AND BONDED CONTRACTOR.
- ALL WATER SERVICE PIPE SHALL BE CEMENT-LINED, TAR-COATED CLASS 52 DUCTILE IRON, SUPPLIED BY U.S. PIPE AND FOUNDRY COMPANY, GRIFFIN PIPE COMPANY, OR EQUAL AS APPROVED BY CAMBRIDGE WATER DEPARTMENT.
- WATER PIPE FITTINGS SHALL BE CEMENT-LINED DUCTILE IRON WITH INTERLOCKING OR MECHANIC/ JOINT RESTRAINTS. 18. WATER PIPE JOINTS SHALL HAVE INTERLOCKING OR MECHANICAL JOINT RESTRAINTS
- 19. WATER PIPE COUPLINGS SHALL BE SMITH BLAIR STYLE 441, DRESS STYLE 153, 360 OR ROMAN STYLE 501 WITH PLAIN, GRADE 27 RUBBER GASKETS AND BLACK, STEEL TRACK-HEAD BOLTS WITH NUTS.
- 20. WATER GATE VALVES SHALL MEET AWWA C-509, 200 PSI MINIMUM WORKING PRESSURE, RESILIENT SEATED, AND OPEN CLOCKWISE.
- 21. THRUST BLOCKS SHALL BE 3,000 PSI MINIMUM, 1-1/2, 470 CEMENT CONCRETE MASONRY



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DIMELLA SHAFFER





BASIS OF DESIGN

1. STORMWATER MANAGEMENT

- 1. RETAIN AND CONTROL RUNOFF VOLUME INCREASE BETWEEN EXISTING 2-YR/24 HR RAINFALL AND PROPOSED 25-YR/24 HR RAINFALL USING 2030 NOAA RAINFALL VOLUMES
- 2. CONTROL / MITIGATE PEAK RATE OF RUNOFF FOR 2014 NOAA 100-YR RAINFALL EVENT
- 3. PROVIDE LOW IMPACT DEVELOPMENT (LID) TECHNIQUES WHERE POSSIBLE

A. RAINFALL SUMMARY

STORM EVENT	RAINFALL
2014 NOAA 2-YEAR STORM	3.16 INCHES
2014 NOAA 25-YEAR STORM	6.03 INCHES
2014 NOAA 100-YEAR STORM	8.62 INCHES
2030 NOAA 2-YEAR STORM	3.34 INCHES
2030 NOAA 25-YEAR STORM	7.25 INCHES

B. RUNOFF VOLUME IMPACT

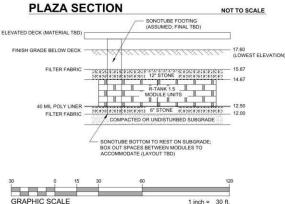
NET INCREASE IN IMPERVIOUS AREA:	2,510 SF
2030 NOAA 2-YR PRE-DEVELOPMENT RUNOFF VOLUME:	0.337 AF
2030 NOAA 25-YR POST-DEVELOPMENT RUNOFF VOLUME:	0.964 AF
RUNOFF VOLUME INCREASE:	0.627 AF = 27,312 CF

C. MITIGATION

- INSTALL	STORMWATER	DETENTION	WITHIN	PLAZA

- INSTALL 2,120 R-TANK¹⁰ 1.5 (SINGLE MINI) MODULES

Notice E, Eori Mart II (Gridee Inni) hoddeed	
- 2014 NOAA 2-YR PRE-DEVELOPMENT PEAK OUTFLOW RATE:	4.36 CFS
- 2014 NOAA 25-YR POST-DEVELOPMENT PEAK OUTFLOW RATE:	3.87 CFS
- 2014 NOAA PEAK OUTFLOW REDUCTION (2-YR PRE VS. 25-YR POST):	-0.49 CFS
- 2014 NOAA 2-YR PEAK STORAGE ELEVATION:	13.02 FT (1.65 FT FREEBOARD)
- 2014 NOAA 25-YR PEAK STORAGE ELEVATION:	13.81 FT (0.86 FT FREEBOARD)
- 2014 NOAA 100-YR PEAK STORAGE ELEVATION:	14.49 FT (0.18 FT FREEBOARD)
- 2030 NOAA 2-YR PRE-DEVELOPMENT PEAK OUTFLOW RATE:	4.73 CFS
- 2030 NOAA 25-YR POST-DEVELOPMENT PEAK OUTFLOW RATE:	4.53 CFS
- 2030 NOAA PEAK OUTFLOW REDUCTION (2-YR PRE VS. 25-YR POST):	0.20 CFS
- 2030 NOAA 2-YR PEAK STORAGE ELEVATION:	13.07 FT (1.60 FT FREEBOARD)
- 2030 NOAA 25-YR PEAK STORAGE ELEVATION:	14.19 FT (0.48 FT FREEBOARD)

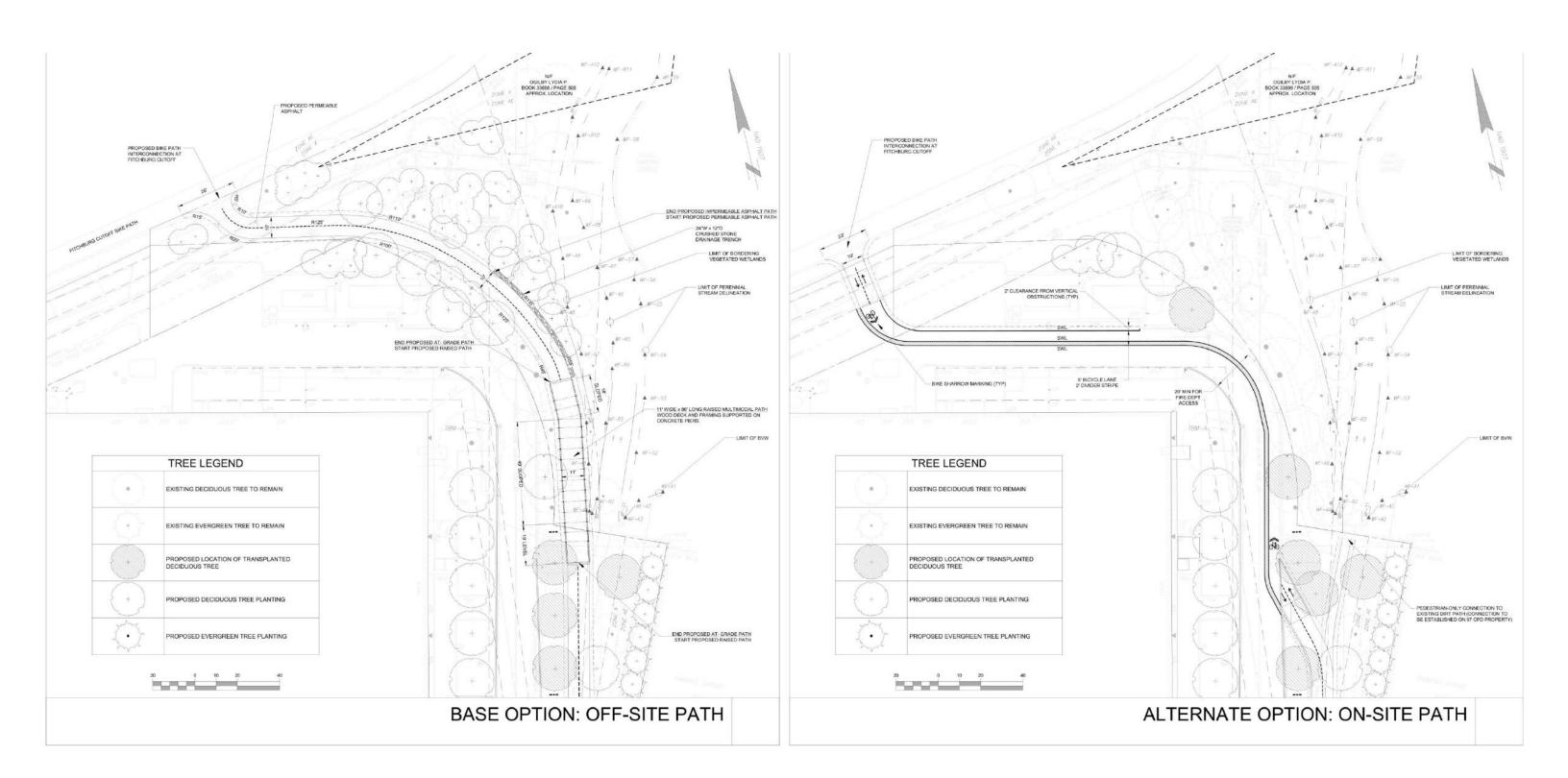






GRADING & DRAINAGE PLAN

101 Cambridgebark Drive / 06/28/19 REVISED 02/11/20



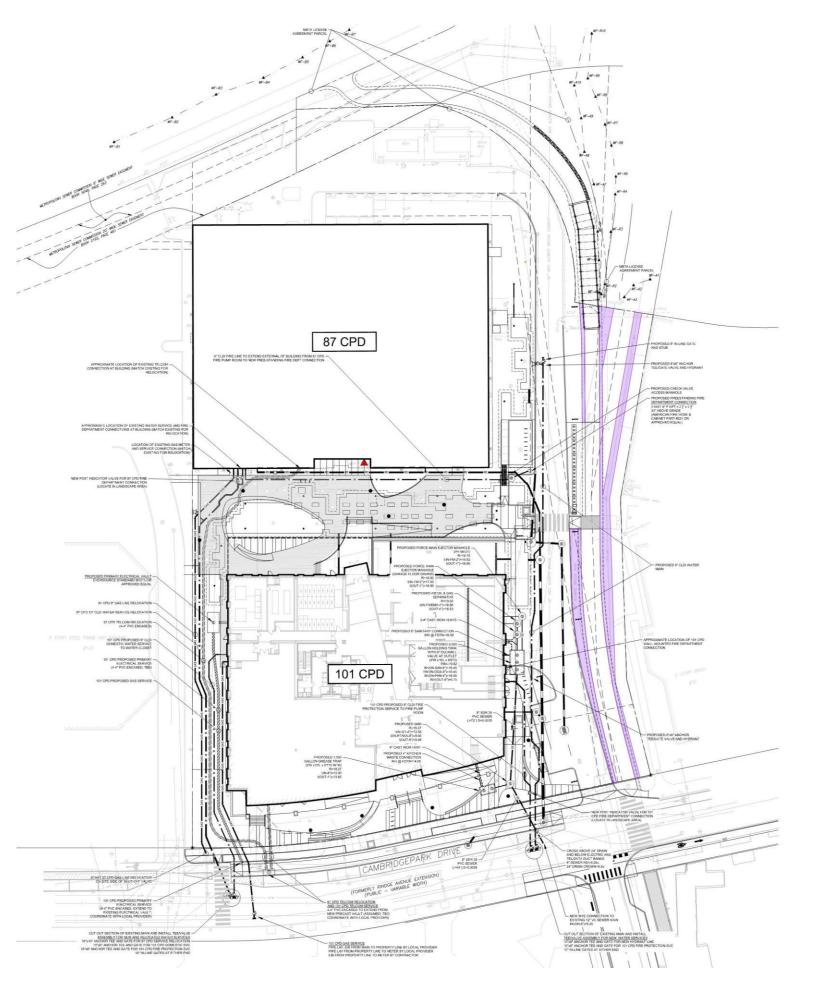


MULTI-USE PATH OPTIONS

101 Cambridgepark Drive / 02/11/20

SITE GRADING, DRAINAGE AND UTILITY NOTES

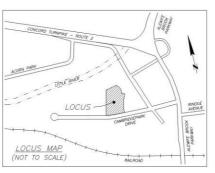
- 1. ALL DRAINAGE PIPES SHALL BE ADS N12 CORRUGATED HIGH DENSITY POLYETHYLENE UNLESS OTHERWISE INDICATED.
- 2. ALL SEWER PIPES SHALL BE 8-INCH DIAMETER SDR 35 POLYVINYL CHLORIDE UNLESS OTHERWISE INDICATED.
- ALL DRAINAGE AND SEWER MANHOLES SHALL BE 4-FOOT INTERIOR DIAMETER PRECAST REINFORCED CONCRETE UNLESS OTHERWISE INDICATED.
- ALL CATCH BASINS SHALL BE PRECAST REINFORCED CONCRETE WITH HOODS AND 6' DEEP SUMPS PER CAMBRIDGE REQUIREMENTS.
- 5. STORMSAFE WATER QUALITY VAULT SHALL BE INSTALLED PER MANUFACTURER'S STANDARDS.
- 6. UNDERGROUND DETENTION SYSTEM SHALL CONSIST OF ACF R-TANK 1.5 MODULES LINED WITH IMPERMEABLE POLYETHYLENE LINER AND EMBEDDED IN CRUSHED STONE. R-TANK SYSTEM SHALL BE INSTALLED PER MANLFACTURER'S STANDARDS AND SPECIFICATIONS CONTRACTOR SHALL COORDINATE WITH MANUFACTURER OR MANUFACTURER'S REPRESENTATIVE REGARDING INSTALLATION INSPECTIONS, FRECOMMENDED.
- FINAL GAS, ELECTRIC, AND TELECOMMUMICATIONS SERVICES SHALL BE COORDINATED WITH THEIR RESPECTIVE LOCAL PROVIDERS. LOCATIONS SHOWN ARE TENTATIVE ONLY.
- 8. UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL WORK IS TO CONFORM TO THE CITY OF CAMBRIDGE WATER DEPARTMENT CONSTRUCTION AND OPERATING PROCEDURES, MWRA DESIGN STANDARDS, AND MASSACHUSETTS PLUMBIG CODE FIRST, AND F WORK IN NOT COVERED IN TH SPECIFICATIONS, IT IS TO COMFORM TO THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATION FOR HIGHWAYS AND BRIDGES, CURRENT EDITION.
- 9. THE SITE CONTRACTOR SHALL VERIFY THE LOCATION. SZE, AND DEPTH OF EXISTING UTILITIES AND DRAINAGE INFRASTRICTURE PRIOR TO TAPPING INTO, CROSSING, OR EXTENDING THEM, IF THE NEW WORK POSES A CONFLUCT WITH EXISTING UTILITIES, THE ENGINEER SHALL BE NOTIFIED PRIOR TO THE CONTRACTOR CONTINUING.
- THE SITE CONTRACTOR SHALL KEEP ACCURATE AND NEAT TIES TO ALL SUBSURFACE UTILITIES. COPIES OF THESE TIES SHALL BE PROVIDED TO THE CITY OF CAMBRIDGE AND THE ENGINEER AT THE COMPLETION OF SITE WORK.
- 11. REFER TO PLUMBING PLANS BY OTHERS FOR PLUMBING MODIFICATIONS WITHIN THE EXISTING BUILDING.
- CAMBRIDGE WATER DEPARTMENT, CAMBRIDGE PUBLIC WORKS DEPARTMENT, AND CAMBRIDGE ENGINEERING DEPARTMENT SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO START OF CONSTRUCTION.
- 13. THE SITE CONTRACTOR SHALL OBTAIN, AT A IMMIMIA, A WATER WORKS DEMOLTION PERMIT, A WATER WORKS CONSTRUCTION PERMIT. SHEET OBSTRUCTION PERMIT, TRAFFIC IMMAGEMENT DETOUR PLAN, AND ANY OTHER NECESSARY PERMITS PRIOR TO DEMOLTION AND/OR INSTALLATION OF EXISTING AND PROPOSED WATER SERVICES SHOWN HEREN.
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 16. ALL WATER SERVICE PIPE SHALL BE CEMENT-LINED, TAR-COATED CLASS 52 DUCTILE IRON, SUPPLIED
 5Y U.S. PIPE AND FOLKNERY COMPANY, OR COMPANY, OR EQUIL, AS APPROVED BY
- 20. WATER PIPE FITTINGS SHALL BE CEMENT-LINED DUCTILE IRON WITH INTERLOCKING OR MECHAN JOINT RESTRAINTS.
- 18. WATER PIPE JOINTS SHALL HAVE INTERLOCKING OR MECHANICAL JOINT RESTRAINTS.
- WATER PIPE COUPLINGS SHALL BE SMITH BLAIR STYLE 441, DRESS STYLE 153, 360 OR ROMAN STYLE 501 WITH PLAIN, GRADE 27 RUBBER GASKETS AND BLACK, STEEL TRACK-HEAD BOLTS WITH NUTS.
- 20. WATER GATE VALVES SHALL MEET AWWA C-509, 200 PSI MINIMUM WORKING PRESSURE, RESILIENT SEATED, AND OPEN CLOCKWISE.
- 21. THRUST BLOCKS SHALL BE 3,000 PSI MINIMUM, 1-1/2, 470 CEMENT CONCRETE MASONRY.



DIMELLA SHAFFER







COLOR LEGEND (EASTERN PORTION OF SITE)

OPEN SPACE AREA NOT AVAILABLE FOR TREE PLANTING DUE TO EXISTING SUBSURFACE DRAINAGE/UTILITIES AND 2-FOOT MINIMUM VERTICAL OBSTRUCTION CLEARANCE

SEWAGE MITIGATION

1. STORE SANITARY FLOW FOR A PERIOD OF 8 HOURS WITH A FACTOR OF SAFETY OF 1.5

SEWAGE DISCHARGE ESTIMATE

OFFICE/LAB:	(139,134 SF) x (75 GPD	/ 1,000 GSF)	= 10,435 GPD
RETAIL:	(2,700 SF) x (50 GPD /	1,000 GSF)	= 135 GPD
RESTAURANT:	(100 SEATS) x (35 GPD	/ SEAT)	= 3,500 GPD
PARKING GARA	GE: (123,375 SF) x (0.5 G	PD / 1,000 GSF)	= 62 GPD
TOTAL:			= 14,132 GPD
(14,132 GPD) x (1 DAY / 24 HRS) x (8 HRS	6) = 4,711 GPD	(8 HRS FLOW / STORAGE)
(4,711 GPD) x (1	5 FOS)	= <u>7,067 GPD</u>	(1.5 FACTOR OF SAFETY)
INSTALL 8.000 G	ALLON SEWAGE HOLDI	NG TANK (9'x16' 0	LDCASTLE PRECAST

OST-800 OK APPROVED EQUAL) WITH DUCK - BILLED BACKWATER VALVE IN BOTTOM OF TANK OUTLET.

GREASE TRAP SIZING

 RESTAURANT:
 (100 SEATS) x (15 GPD / SEAT)
 = 1,500 GPD

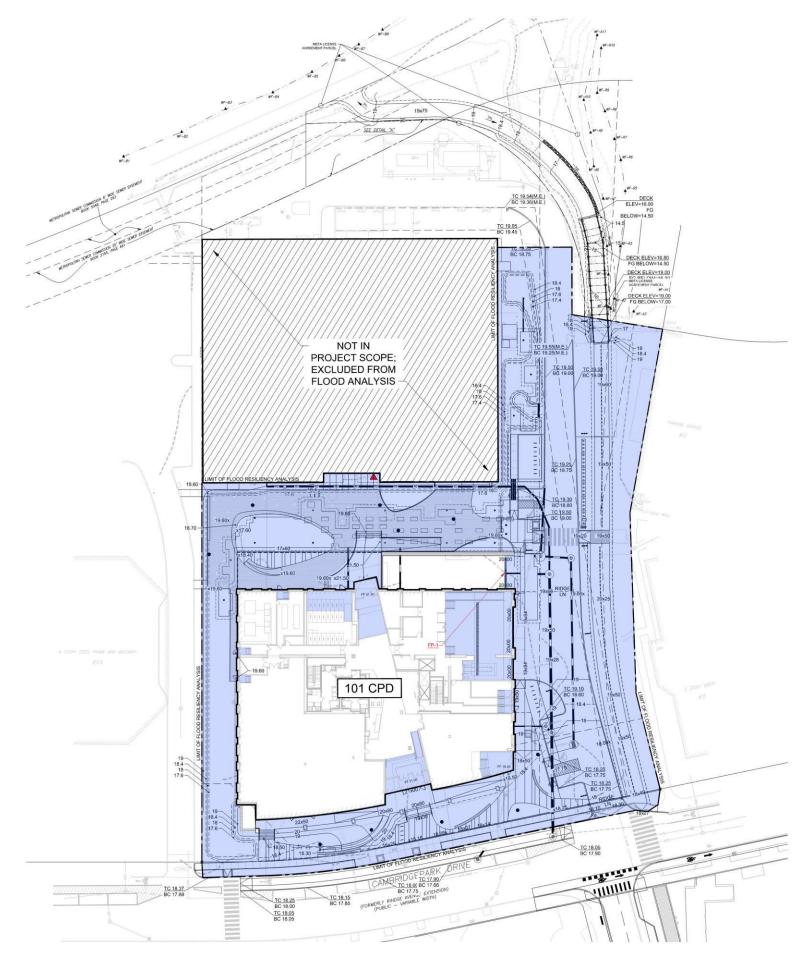
 INSTALL 1,500 GALLON GREASE TRAP (5'x10' OLDCASTLE PRECAST GT-1500 OR APPROVED EQUAL)
 = 1,500 GPD





UTILITY PLAN

101 Cambridgepark Drive / 10/04/19 REVISED 02/11/20



HIGHPOINT



FLOODING SCENARIO SUMMARY

GROUND ELEVATION (MINIMUM)	= 11.8 ft-CCB
GROUND ELEVATION (MAXIMUM)	= 20.4 ft-CCB
2070: 100 Year SLR/SS	= 22.5 ft
2070: 100 Year Precipitation	= 20 ft
2070: 10 Year SLR/SS	= 22 ft
2030: 100 Year Precipitation	= 19.4 ft
2030: 10 Year Precipitation	= 19.4 ft
Present Day: 100 Year	= 19.4 ft
Present Day: 10 Year	= 18.8 ft
FEMA 500 Year	= 22.4 ft
FEMA 100 Year	= 18.4 ft

(Source: Cambridge FloodViewer Pilot mapping)

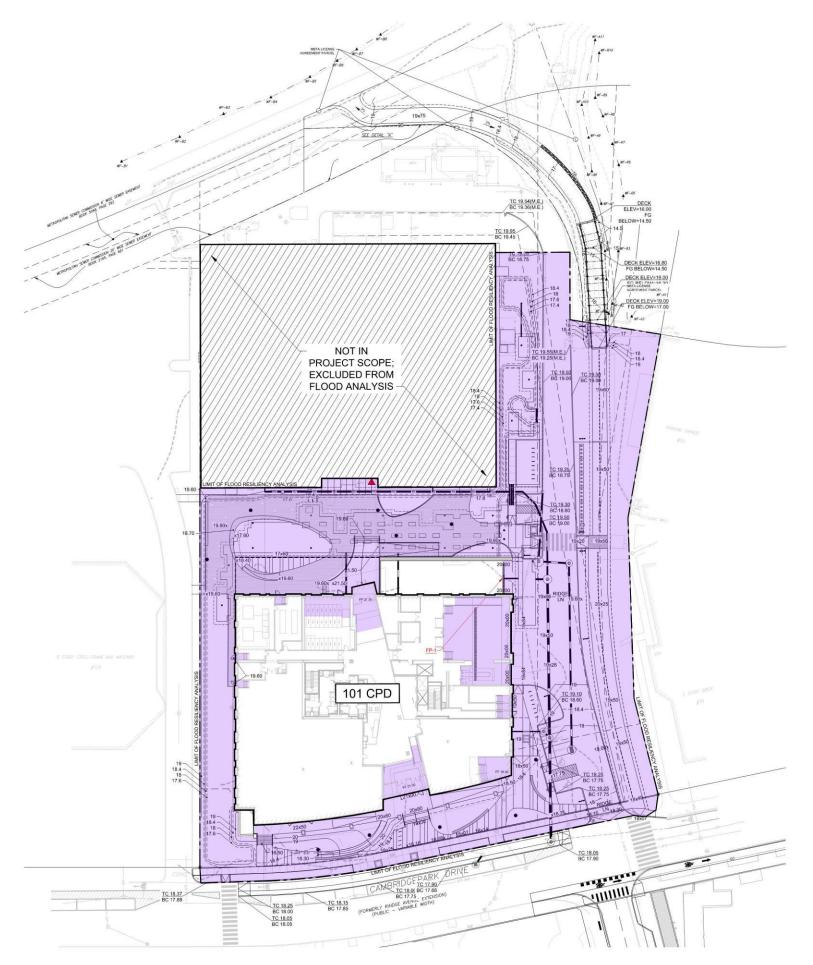
FLOOD RESILIENCY SUMMARY

SED PASSIVE FLOOD PR PROFOSED #ASINE FLOOD FROTECTION FLOODBREAK® VEHICLE GATE (OR APPROVED EQUAL) (25W x 30'H) AND TRENCH DRAIN AT GARAGE ENTRANCE TRENCH ORAIN RTM-20.00 BOTTOM OF GATE ELEVATION (RAISED)=22.50 TOP OF GATE ELEVATION (RAISED)=22.50

TES: ALL PAD-MOUNTED ELECTRICAL EQUIPMENT WITHIN BUILDING SHALL BE MOUNTED ON STRUCTURAL CONCRETE PADS WITH TOP OF PAD ELEVATION SET ABOVE ELEVATION 22.60, PAD DIMENSIONS AND LOCATIONS SHOWN HERECO NASE FOR GRAPHICAL PURPOSES ONLY AND ARE NOT FINAL EXISTING 87 CAMBRIDGEPARK DRIVE BUILDING IS EXCLUDED FROM FLOOD RESILIENCY ANALYSIS.









FLOODING SCENARIO SUMMARY

GROUND ELEVATION (MINIMUM)	= 11.8 ft-CCB
GROUND ELEVATION (MAXIMUM)	= 20.4 ft-CCB
2070: 100 Year SLR/SS	= 22.5 ft
2070: 100 Year Precipitation	= 20 ft
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2030: 100 Year Precipitation	= 19.4 ft
2030: 10 Year Precipitation	= 19.4 ft
Present Day: 100 Year	= 19.4 ft
Present Day: 10 Year	= 18.8 ft
FEMA 500 Year	= 22.4 ft
FEMA 100 Year	= 18.4 ft

(Source: Cambridge FloodViewer Pilot mapping)

FLOOD RESILIENCY SUMMARY

FP-1 PROPOSED PASSIVE FLOOD PROTECTION: FLOODBREAK® VEHICLE GATE (OR APPROVED EQUAL) (25W x 30°H) AND TRENCH ORAIN AT GARAGE ENTRANCE BOTTOM OF GATE ELEVATION-20.00 TOP OF GATE ELEVATION (RAISED)=22.50

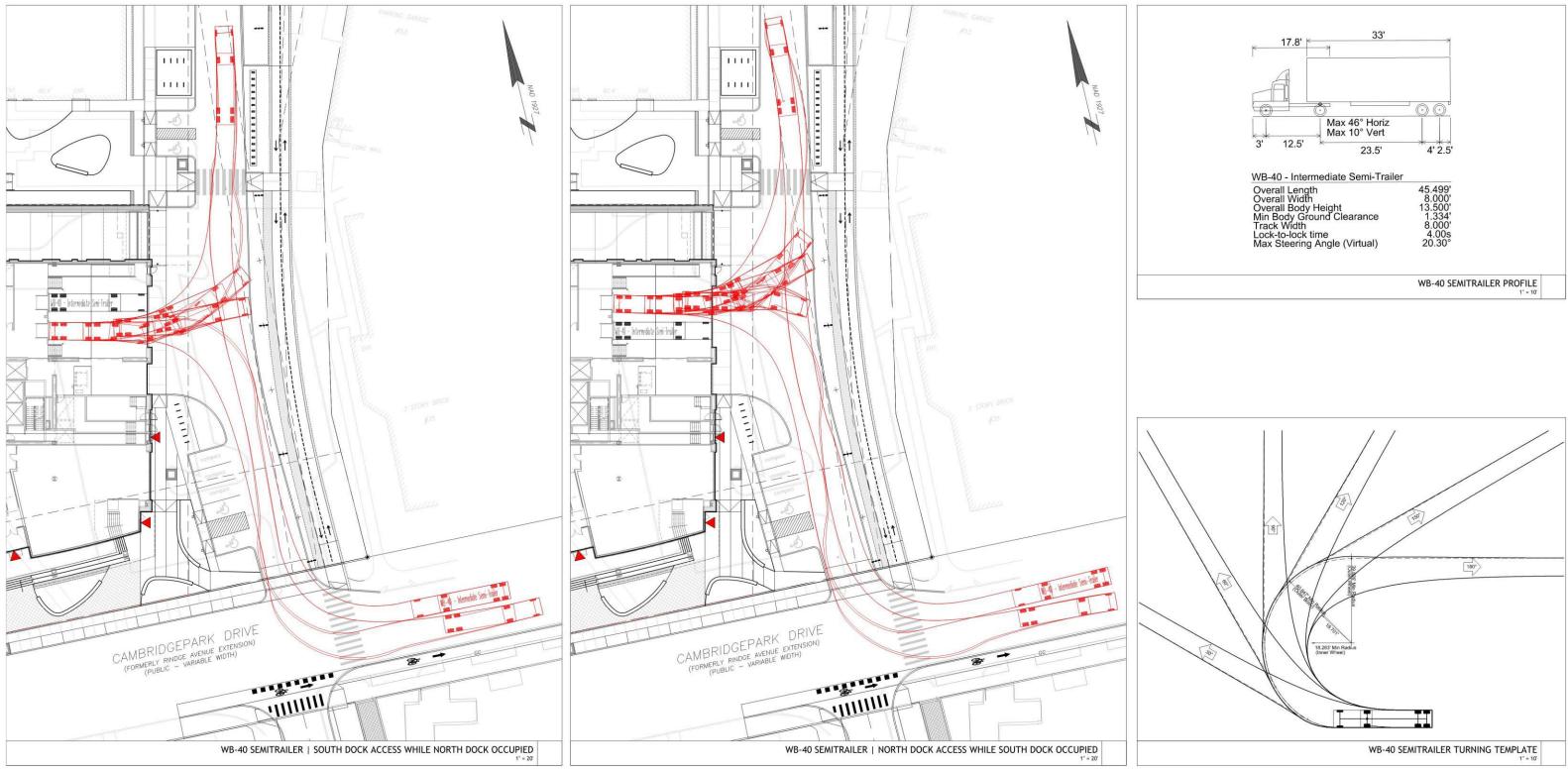
IOTES: 1. ALL PAD-MOUNTED ELECTRICAL EQUIPMENT WITHIN BUILDING SHALL BE MOUNTED ON STRUCTURAL CONCRETE PADS WITH TOP OF PAD ELEVATION SET ABOVE ELEVATION 22:00. PAD DIMENSIONS AND LOCATIONS SHOWN HEREON ARE FOR GRAPHICAL PURPOSES ONLY AND ARE NOT FINAL 2. EXISTING 87 CAMBRIDGEPARK ORIVE BUILDING IS EXCLUDED FROM FLOOD RESILIENCY ANALYSIS.

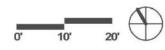


KSP King Street Properties

FLOOD RESILIENCY PLAN 2070 10-YEAR SLR/SS PASSIVE DEPLOY

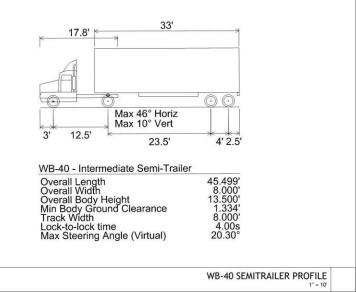
101 Cambridgepark Drive / 06/28/19 Revised 02/11/20 43





HIGHPOINT

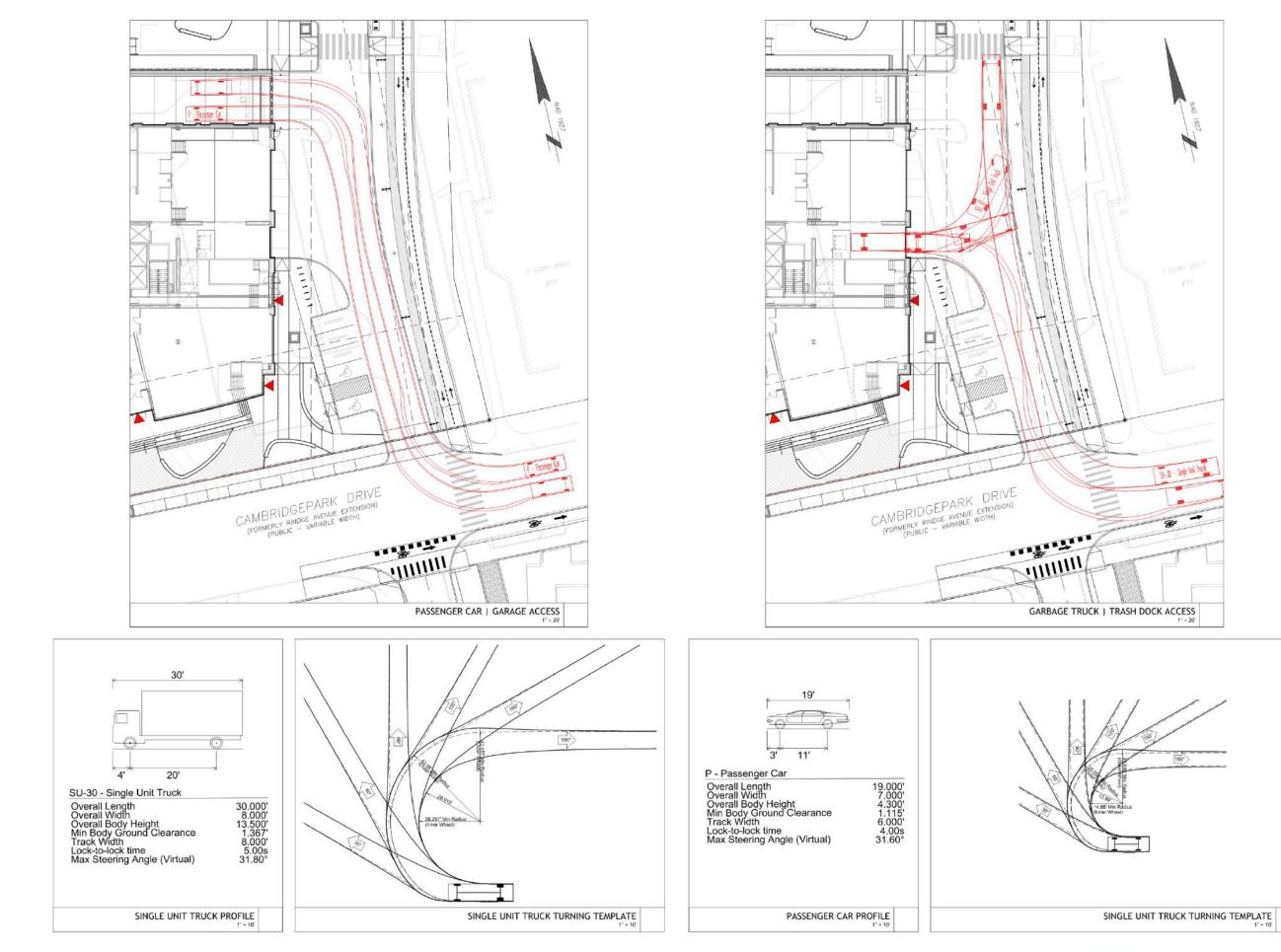
DIMELLA SHAFFER





TRUCK TURNING - LOADING

101 Cambridgepark Drive / 10/04/19

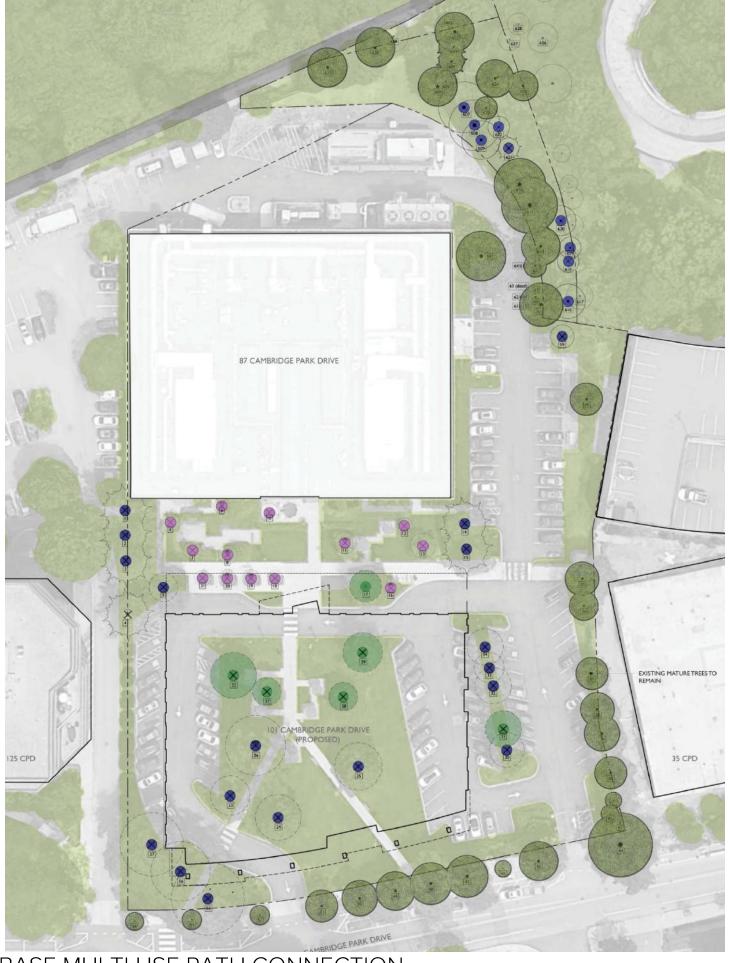


HIGHPOINT



TURNING STUDY | TRASH DOCK & GARAGE

101 Cambridgepark Drive / 10/4/19





BASE MULTI-USE PATH CONNECTION

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EXISTING TREE - POTENTIAL FOR TRANSPLANT

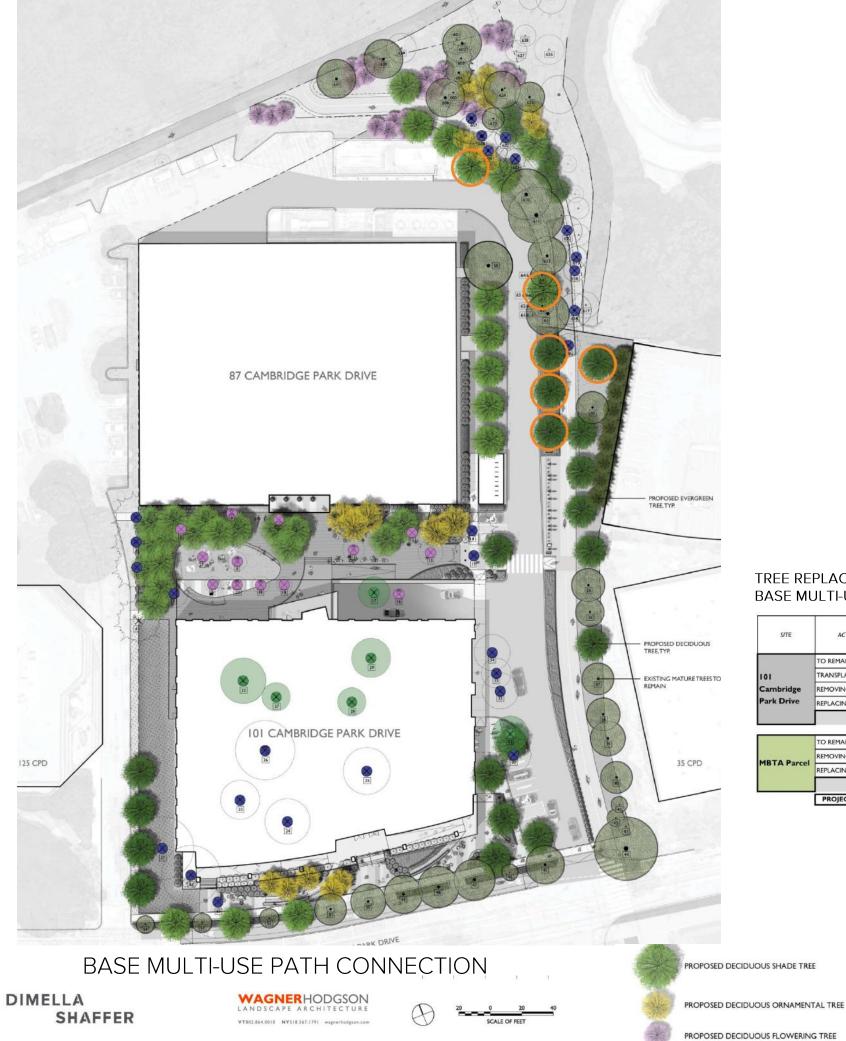
EXISTING TREE TO BE REMOVED

EXISTING TREE TO BE REMOVED (INSIGNIFICANT)

TREES TO BE REMOVED, TO REMAIN AND TO BE TRANSPLANTED



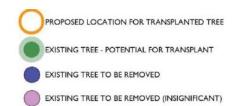
EXISTING TREE PLANS 101 Cambridgebark Drive / 06/28/19 REVISED 01/22/20





TREE REPLACEMENT CALCULATIONS BASE MULTI-USE PATH CONNECTION

	PROJECT TOTAL:	+ 65 TREES	- 67 INCHES	
	NET:	+ 32	- 32	
rib i A Farcei	REPLACING:	41	103	
MBTA Parcel	REMOVING:	9	135	
	TO REMAIN IN PLACE	13	213	
	NET:	+ 33	- 35	
Park Drive	REPLACING:	64	256	
Cambridge	REMOVING:	31	291	
101	TRANSPLANTING:	6	67	
	TO REMAIN IN PLACE	25	290	
SITE	ACTION	# TREES	TOTAL TREE SIZE (DBH INCHES)	



ALTERNATE MULTI-USE PATH CONNECTION

TREE REPLACEMENT CALCULATIONS ALTERNATE MULTI-USE PATH

	PROJECT TOTAL:	A TREES	- 23 INCHES
	NET:	+ 34	- 23
Park Drive	REPLACING:	64	256
Cambridge	REMOVING:	30	279
101	TRANSPLANTING:	6	67
	TO REMAIN IN PLACE	25	302
SITE	ACTION	# TREES	TOTAL TREE SIZE (DBH INCHES)

KSP King Street Properties OVERLAY OF ALL TREES

EXISTING + NEW TREE PLANS

101 Cambridgepark Drive / 06/28/19 REVISED 02/112/20



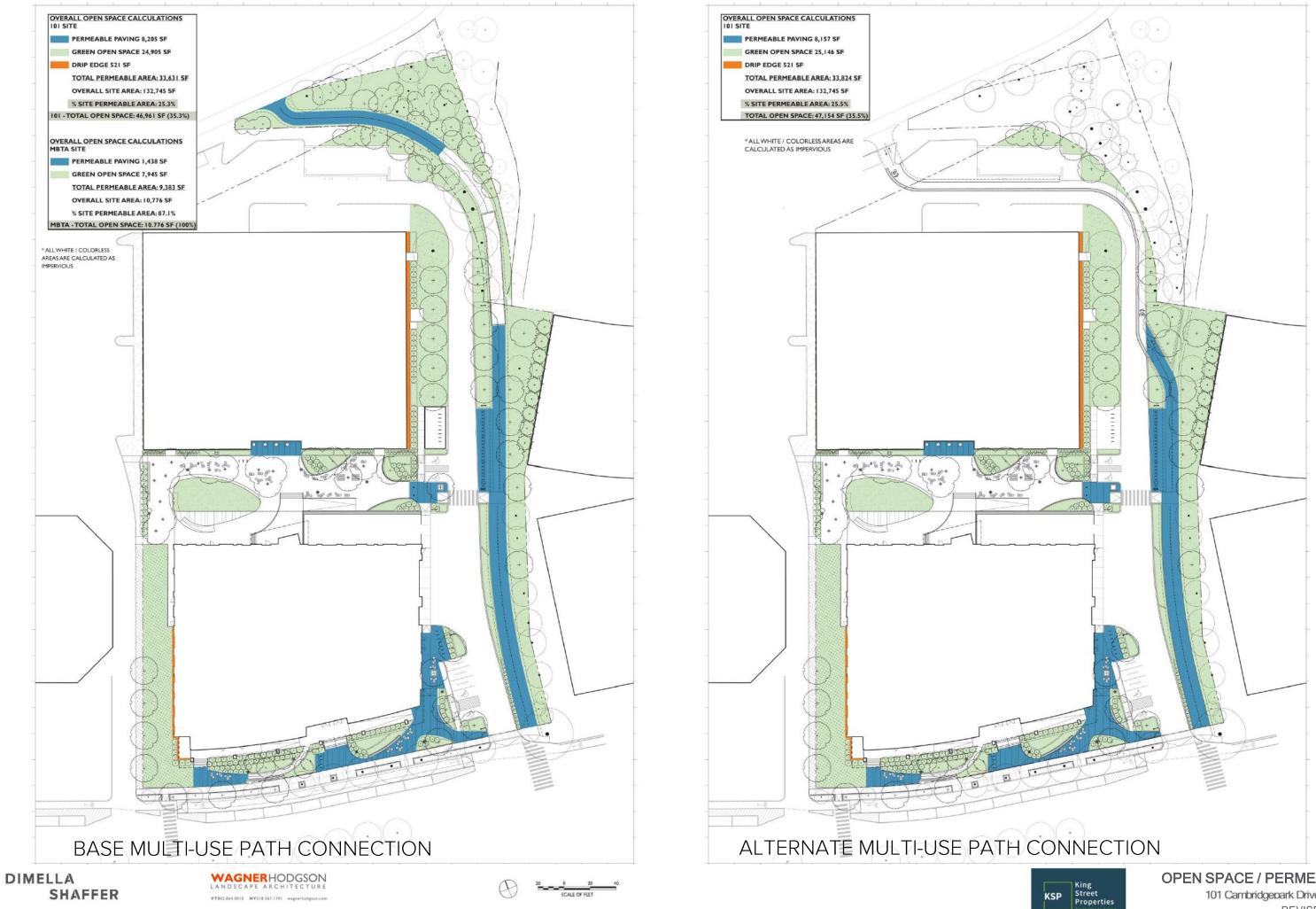
WAGNERHODGSON LANDSCAPE ARCHITECTURE VT802.864.0010 NY518.567.1791 wagnerhodgson.com

INDICATING TREES ADDED SINCE LAST SUBMISSION



101 Cambridgepark Drive 02/11/20

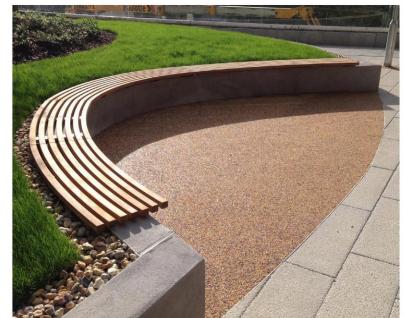
TREE PLAN



OPEN SPACE / PERMEABLE PLANS

101 Cambridgebark Drive 10/04/19 REVISED 02/11/20

CURVING SEATWALLS WITH INTEGRATED PLANTING (STREETSCAPE)



CURVING BENCH WITH ADJACENT PLAZA (STREETSCAPE)





BIKE SHELTER (SLAT PANELS WITH FLAT SOLID ROOF, LOCKABLE AND FULLY ENCLOSED FOR 16 BIKES)

EXTERIOR POLE LIGHTING - DIFFERING POLE MOUNTING HEIGHTS FOR PEDESTRIAN AND VEHICULAR TRAFFIC ALONG MULTIMODAL PATH

DIMELLA SHAFFER



FLEXIBLE SEATING ON PLAZA DECK ABOVE CALMING PLANTED AREAS





LANDSCAPE PRECEDENT IMAGES

101 Cambridgebark Drive 10/04/19 REVISED 02/11/20 50



Betula nigra 'Dura Heat' RIVER BIRCH (ALL TREES IN LARGE DECK OPENINGS)





Gleditsia triacanthos 'Streetkeeper' HONEYLOCUST (ALL STREET TREES and ALL TREES GROWING THROUGH DECK)



Rhus aromatica 'Gro Low (HEIGHT 30-36" tall)



Taxus x media 'Tauntonii' YEW (HEIGHT 30-36" tall)





Liriope muscari 'Big Blue' LILYTURF (HEIGHT 18'' tall)





Calamagrostis x acutiflor (HEIGHT 36-42" tall)



Miscanthus sinensis 'Purpurascens' FLAME GRASS (HEIGHT 60" tall)





Cornus sericea 'Alleman's Compact' REDTWIG DOGWOOD (IN LARGE DECK OPENINGS - HEIGHT 60" tall, at least 18" above deck)



Matteuccia struthiopteris OSTRICH FERN (IN LARGE DECK OPENINGS - HEIGHT 30-36" tall, at least 18" above deck)

VAGNERHODGSON LANDSCAPE ARCHITECTURE VT802.864.0010 NYS18.567.1791 wagnerhodgson.com Rhus aromatica 'Gro Low' GRO LOW SUMAC

Calamagrostis x acutiflora 'Karl Foerster' FEATHER REED GRASS





PLANTING IMAGES 101 Cambridgepark Drive 10/04/19



QTY	Symbol	TREE SCIENTIFIC NAME	TREE COMMON NAME	TREE SIZE (DBH; inch)	TOTAL TREE REPLACEMENT (caliper inch)
5	AG	Amelanchier x grandiflora 'Autumn Brilliand	SERVICEBERRY (multistem)	2.0	10.0
7	AR	Acer x freemanii 'Autumn Blaze'	AUTUMN BLAZE MAPLE	4.5	31.5
10	BN	Betula nigra 'BNMTF' DuraHeat single stem	DURA HEAT RIVER BIRCH	4.0	40.0
15	GS	Gleditsia triacanthos 'Street Keeper'	STREETKEEPER HONEYLOCUST	4.5	67.5
3	GT	Gleditsia triacanthos 'Shademaster'	SHADEMASTER HONEYLOCUST	4.5	13.5
9	JV	Juniperus virginiana	EASTERN RED CEDAR	4.0 (6-7' ht)	36.0
3	PX	Platanus x acerifolia	LONDON PLANETREE	4.5	13.5
4	QB	Quercus bicolor	SWAMP WHITE OAK	3.0	12.0
2	UA	Ulmus americana 'Valley Forge'	VALLEY FORGE AMERICAN ELM	4.5	9.0
6	ZS	Zelkova serrata 'Green Vase'	GREEN VASE ZELKOVA	4.5	27.0
					TOTAL TREE REPLACEMENT (caliper inch)
			TOTAL REPI	ACEMENT:	250
			REQUIRED CALIPER INCHES TO	O REPLACE:	291
			% REPLACEMENT	ATTAINED:	86%

SCALE OF FEET

YT802.864.0010 NY518.567.1791 wagnerhodgson.com

SHAFFER

PLANTING SCHEUDLE ON 101 CPD PARCEL

BASE MULTI-USE PATH CONNECTION



PLANTING PLAN (SOUTH)

101 Cambridgebark Drive 10/04/19 REVISED 2/11/20



VAGNERHODGSON LANDSCAPE ARCHITECTURE VT802.864.0010 NY518.567.1791 wagnerhodgson.com

20

SCALE OF FEET

PLANTING SCHEUDLE ON MBTA PARCEL

			2
TREE SCIENTIFIC NAME	TREE COMMON NAME	TREE SIZE (DBH; inch)	TOTAL TREE REPLACEMENT (caliper inch)
brum 'Franksred'	RED SUNSET RED MAPLE	4.0	8.0
chier x grandiflora 'Autumn Brilliance	SERVICEBERRY (multistem)	2.0	24.0
igra 'Heritage' single stem	HERITAGE RIVER BIRCH	3.0	30.0
igra 'Heritage' single stem	HERITAGE RIVER BIRCH	2.0	6.0
s betulus 'Fastigiata'	COMMON HORNBEAM	4.0	4.0
nowdrift'	SNOWDRIFT CRABAPPLE	2.0	16.0
Ivatica 'Hayman's Red Rage'	RED RAGE TUPELO	3.0	15.0
			TOTAL TREE REPLACEMENT (caliper inch)
	TOTAL RE	PLACEMENT:	103
REQUIRED C	ALIPER INCHES TO REPLACE (o	n MBTA land):	135
	% REPLACEMEN	T ATTAINED:	76%

BASE MULTI-USE PATH CONNECTION



PLANTING PLAN (NORTH) 101 Cambridgepark Drive 10/04/19

101 Cambridgebark Drive 10/04/19 REVISED 02/11/20



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20 SCALE OF FEET

PLANTING SCHEUDLE ON 101 CPD PARCEL

TREE COMMON NAME	TREE SIZE (DBH; inch)	TOTAL TREE REPLACEMENT (caliper inch)	
SERVICEBERRY (multistem)	2.0	10.0	
AUTUMN BLAZE MAPLE	4.5	31.5	
DURA HEAT RIVER BIRCH	4.0	40.0	
STREETKEEPER HONEYLOCUST	4.5	67.5	
SHADEMASTER HONEYLOCUST	4.5	13.5	
EASTERN RED CEDAR	4.0 (6-7' ht)	36.0	
LONDON PLANETREE	4.5	13.5	
SWAMP WHITE OAK	3.0	12.0	
VALLEY FORGE AMERICAN ELM	4.5	9.0	
GREEN VASE ZELKOVA	4.5	27.0	
		TOTAL TREE REPLACEMENT (caliper inch)	
TOTAL REP	ACEMENT:	250	
REQUIRED CALIPER INCHES TO REPLACE:			
% REPLACEMENT ATTAINED:			
	SERVICEBERRY (multistem) AUTUMN BLAZE MAPLE DURA HEAT RIVER BIRCH STREETKEEPER HONEYLOCUST SHADEMASTER HONEYLOCUST EASTERN RED CEDAR LONDON PLANETREE SWAMP WHITE OAK VALLEY FORGE AMERICAN ELM GREEN VASE ZELKOVA TOTAL REPI REQUIRED CALIPER INCHES TO	TREE COMMON NAME (DBH; inch) SERVICEBERRY (multistem) 2.0 AUTUMN BLAZE MAPLE 4.5 DURA HEAT RIVER BIRCH 4.0 STREETKEEPER HONEYLOCUST 4.5 SHADEMASTER HONEYLOCUST 4.5 EASTERN RED CEDAR 4.0 (6-7' ht) LONDON PLANETREE 4.5 SWAMP WHITE OAK 3.0 VALLEY FORGE AMERICAN ELM 4.5 GREEN VASE ZELKOVA 4.5 TOTAL REPLACEMENT: REQUIRED CALIPER INCHES TO REPLACE	

ALTERNATE MULTI-USE PATH CONNECTION



PLANTING PLAN (SOUTH)

101 Cambridgepark Drive 2/11/20



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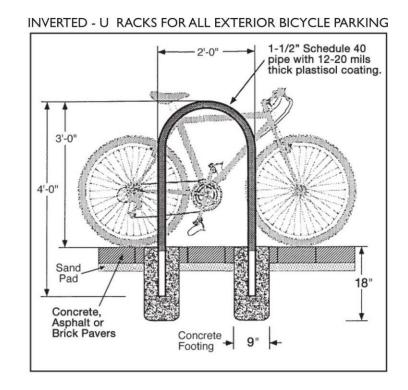
20 0 20 SCALE OF FEET

ALTERNATE MULTI-USE PATH CONNECTION



PLANTING PLAN (NORTH) 101 Cambridgepark Drive 02/11/20





DETAIL B: SHORT-TERM BICYCLE PARKING (87 CPD) - 6 BICYCLES

DETAIL C: LONG-TERM BICYCLE PARKING (101 CPD) - 48 BICYCLES (SEE ARCHITECTURAL DRAWINGS)

DETAIL D: SHORT-TERM BICYCLE PARKING (101 CPD) - 14 BICYCLES

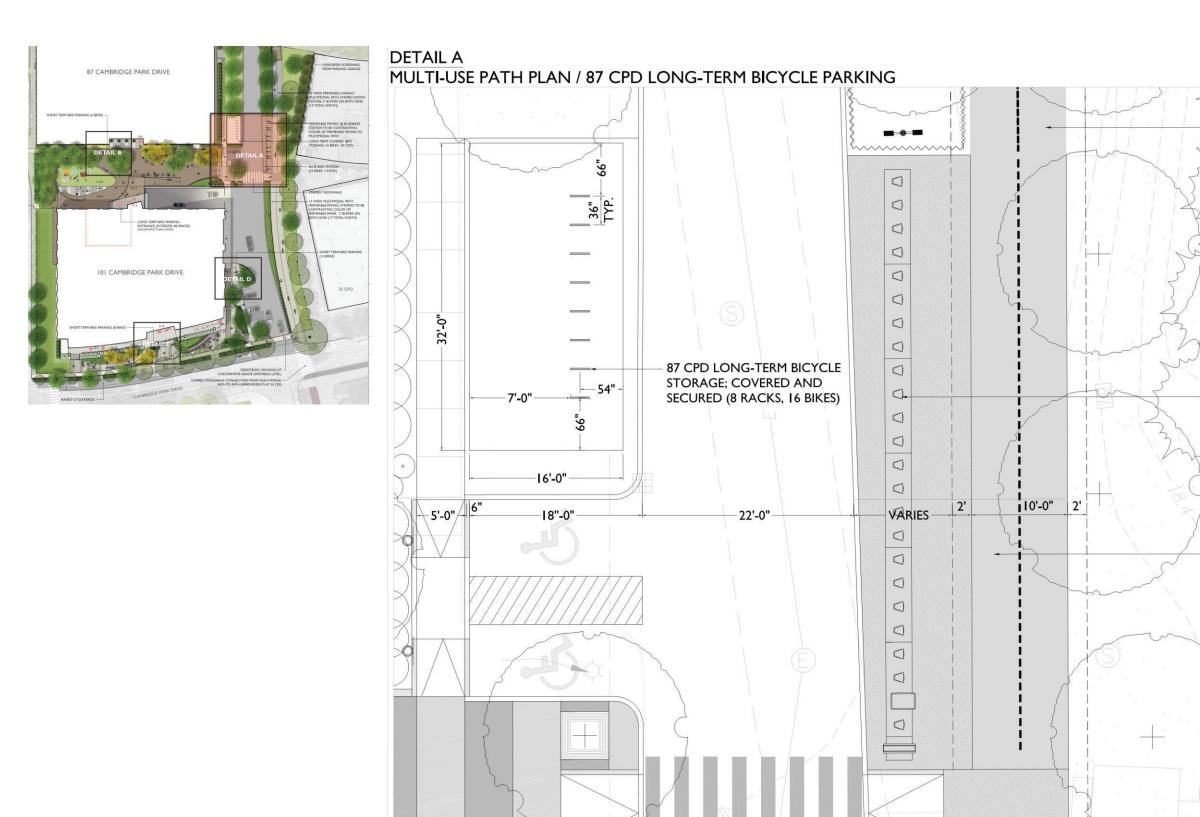
DETAIL E: SHORT-TERM BICYCLE PARKING (101 CPD) - 8 BICYCLES

DIMELLA SHAFFER

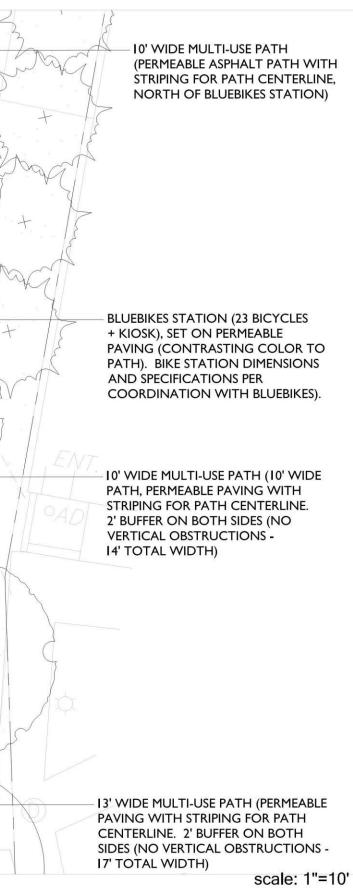
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DETAIL A: LONG-TERM BICYCLE PARKING (87 CPD) - 16 BICYCLES (FULLY COVERED AND PROTECTED FROM WEATHER)

BICYCLE PARKING 101 Cambridgepark Drive 10/04/19 REVISED 02/11/20









8'-0"

23'

4'-0" 8'-0"

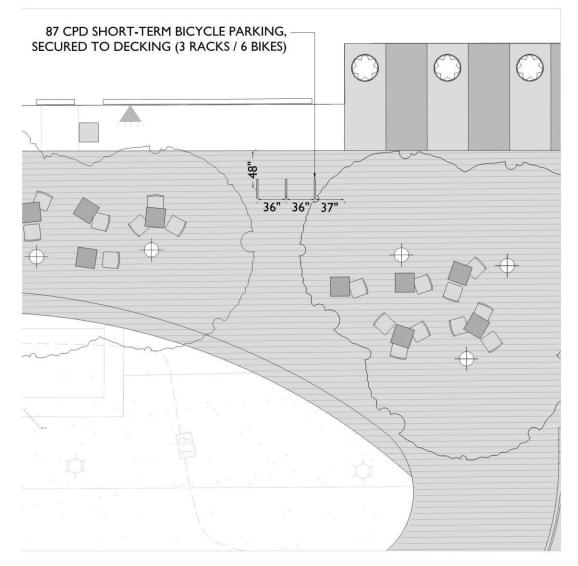
12"

LONG TERM BIKE PARKING @ 87

101 Cambridgebark Drive 10/04/19 REVISED 02/11/20



DETAIL B 87 CPD SHORT-TERM BICYCLE PARKING



scale: 1"=10'

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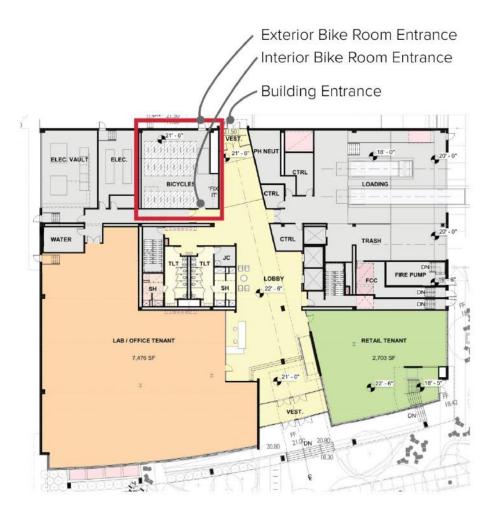
DIMELLA SHAFFER

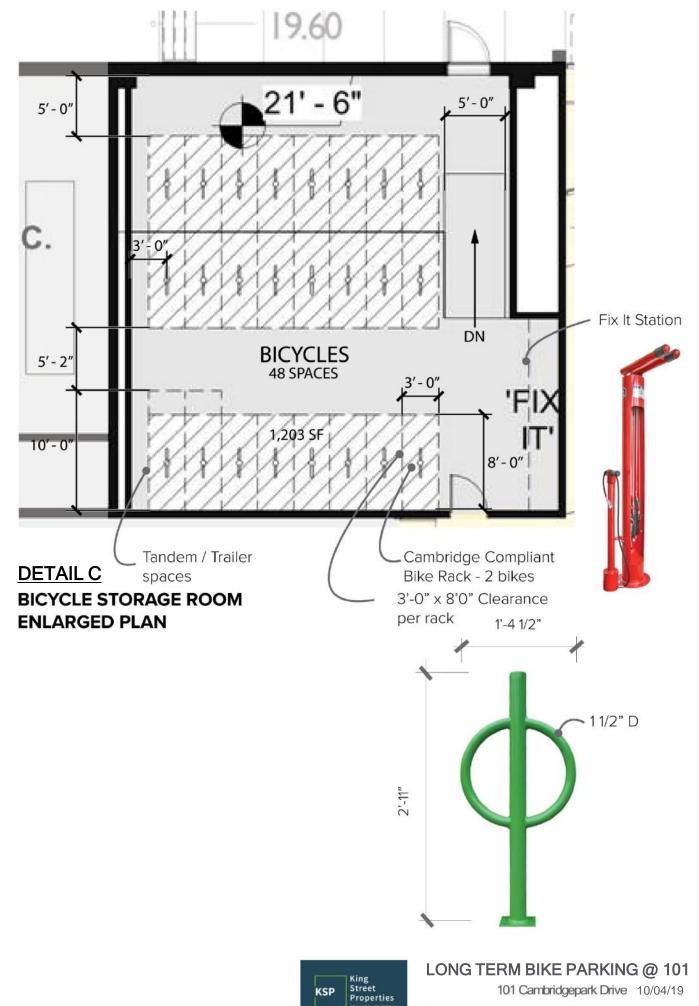


SHORT TERM BIKE PARKING @ 87

101 Cambridgebark Drive 10/04/19 REVISED 02/11/20 58







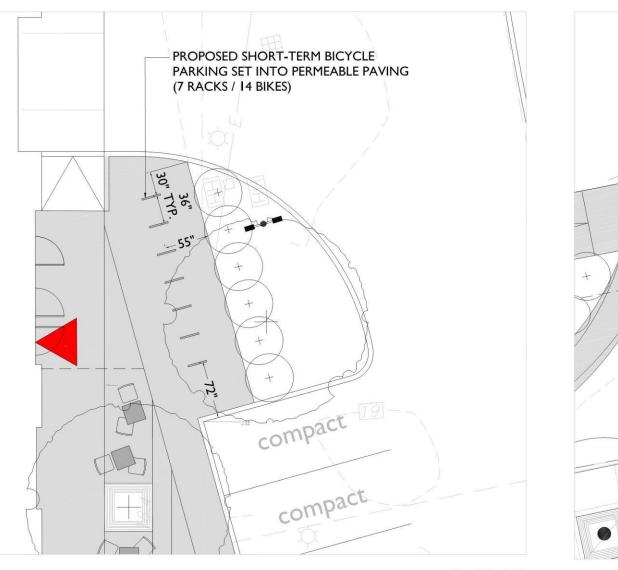
LEVEL ONE PLAN

DIMELLA SHAFFER

í.



DETAIL D **101 CPD SHORT-TERM BICYCLE PARKING**



DETAIL E

+ 82

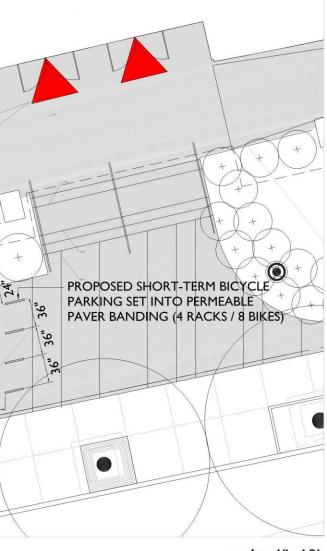
40"

scale: 1"=10'

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101 CPD SHORT-TERM BICYCLE PARKING

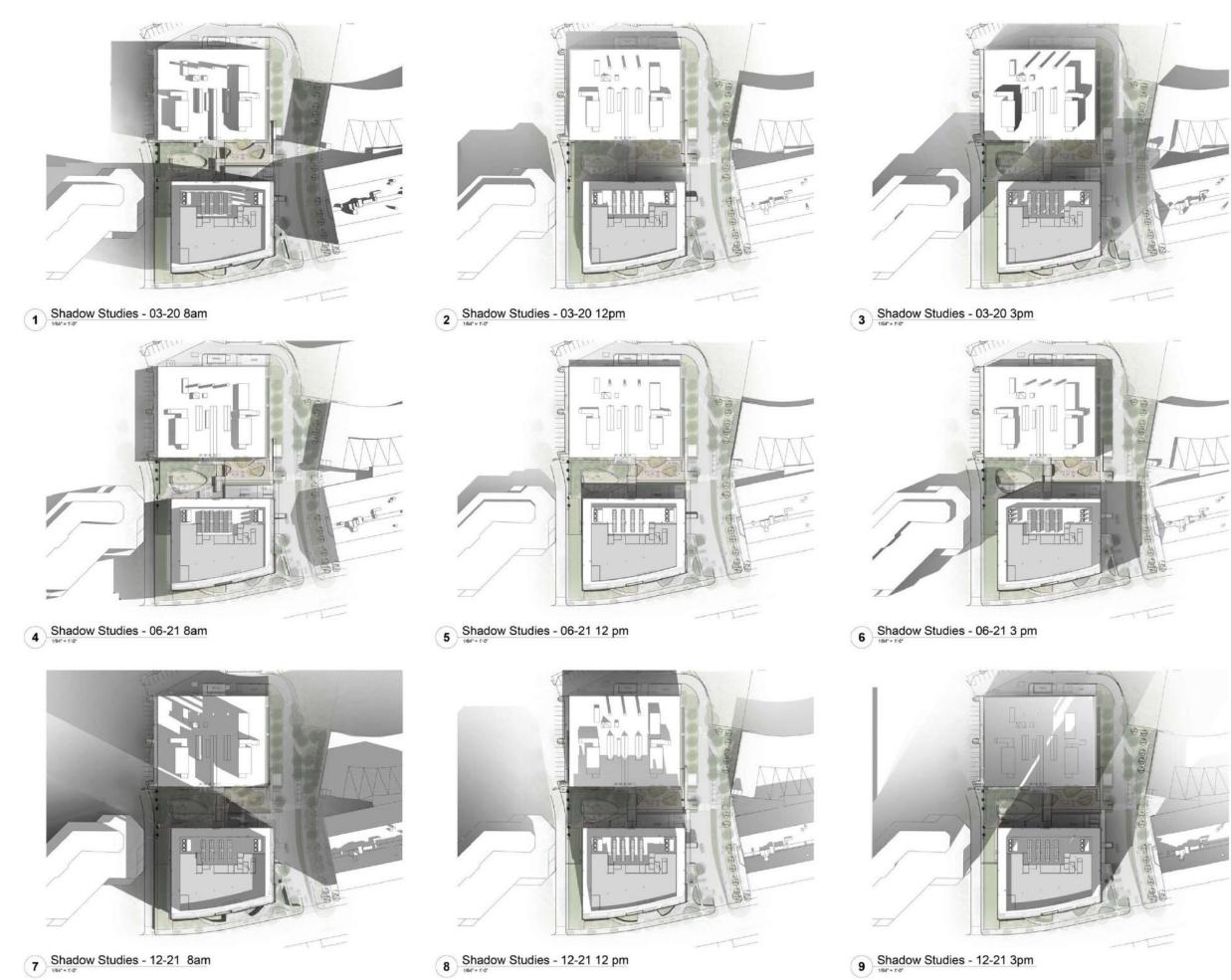


scale: 1"=10'



SHORT TERM BIKE PARKING @ 101

101 Cambridgepark Drive / 10/04/19 REVISED 02/11/20 60





SHADOW STUDIES 101 Cambridgepark Drive / 06/28/19