Tighe&Bond

210700-026 November 9, 2023

Peter Stith, AICP Planning Manager Department of Planning & Sustainability City Hall, 3rd Floor 1 Junkins Avenue Portsmouth, NH 03801

Re: Lonza Biologics – Proposed Industrial Development Traffic Peer Review Response 2 Supplemental PB Submission – Amended Site Plan Review Application

Dear Peter,

On behalf of Lonza Biologics, Inc. (Lonza), we are pleased to submit one (1) set of hard copies and one electronic file (.pdf) of the following revised information to support a request to the Planning Board for a recommendation for approval to the Pease Development Authority (PDA) for Amended Site Plan Review for the above referenced project originally submitted on September 22, 2022:

On behalf of Port Harbor Land, LLC (owner/applicant), we are pleased to submit the following revised information to support a request for a Site Review Permit and Technical Advisory Committee Meeting, for the above referenced project originally submitted on September 27, 2023:

- One (1) full size & one (1) half size copy of the Site Plan Set, last revised November 9, 2023
- Traffic Third Party Review Documents
 - TEC Traffic Peer Review Letter, dated October 3, 2023;
 - Traffic Peer Review Comment Response Letter 1, dated October 24, 2023;
 - TEC Traffic Peer Review Letter, dated November 8, 2023

In response to the third-party review of the previously submitted Traffic Impact Study in a letter dated October 3, 2023, and the subsequent letter dated November 8, 2023, Tighe & Bond is providing the enclosed plan set to address comments 20 through 24 of the October 3rd letter as described in the enclosed response letter dated October 24, 2023. The enclosed revised plans have been updated from the package submitted on September 27, 2023, as follows:

- A central sidewalk has been added through the 150 space parking area connecting to the currently proposed sidewalk. (Sheet C-165)
- A second trash compactor has been added to the site adjacent to the Utility Building. Truck turning was studied to confirm access. (Sheet C-166)
- Pedestrian warning signs have been added to the plans as recommended. (Sheets C-165, C-167 & C-502)
- Crosswalk Striping detail has been revised to note an 8' width. (Sheet C-502)

An updated submission package has been uploaded to the City's online permitting site and hard copy has been hand delivered to the Planning Department. We look forward to meeting with the Planning Board on November 16, 2023. If you have any questions or need any additional information, please contact Neil Hansen by phone at (603) 294-9213 or by email at <u>nahansen@tighebond.com</u>.

Sincerely,

TIGHE & BOND, INC.

Neil A. Hansen, PE Project Manager

Copy: Lonza Biologics (via email) Pease Development Authority

Colter J. Krzcuik, EIT Staff Engineer

J:\L\L0700 Lonza Biologics Expansion was 1576F\026_Project Albacore\Report_Evaluations\Applications\City of Portsmouth\20231109_PB Submission 2\L-0700-026 Supplemental 20231109.docx

PROPOSED INDUSTRIAL DEVELOPMENT 70 & 80 CORPORATE DRIVE PORTSMOUTH, NEW HAMPSHIRE PROJECT NO: L-0700-13 APRIL 3, 2018 LAST REVISED: NOVEMBER 9, 2023

PLAN SET INDEX					
SHEET TITLE	# OF SHEETS	LAST REVISED			
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SHEET INDEX	1	11/9/2023			
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EXISTING CONDITIONS & SUBDIVISION PLANS	6	11/2/2021			
MASTER PLAN COVER SHEET	1	11/9/2023			
MASTER PLAN SET	19	11/9/2023			
PHASE 2 COVER SHEET	1	11/9/2023			
PHASE 2 PLAN SET	27	11/9/2023			
DETAILS COVER SHEET	1	11/9/2023			
EROSION CONTROL NOTES & DETAILS SHEETS	12	11/9/2023			

LIST OF PERMITS				
LOCAL	STATUS	DATE		
SITE PLAN REVIEW PERMIT	APPROVED	1/17/2019		
AMENDED SITE PLAN REVIEW PERMIT	PENDING			
STATE				
NHDES - ALTERATION OF TERRAIN PERMIT	ISSUED: AOT-1498	10/02/2018		
NHDES - WETLANDS PERMIT	ISSUED: #2018-01731	12/21/2018		
FEDERAL				
PHASE 1A - EPA - NPDES CGP	ISSUED: NHR1001EU	2/24/2022		
	ISSUED:NHR1001SK	7/21/2023		
THASE ID - LFA - NEDES COP	ISSUED:NHR1001SL	7/24/2023		



LESSOR:

APPLICANT/OWNER: LONZA BIOLOGICS 101 INTERNATIONAL DRIVE PORTSMOUTH, NH 03801

CIVIL ENGINEER:

SURVEYOR:

WETLAND SCIENTIST: GOVE ENVIRONMENTAL SERVICES, INC. 8 CONTINENTAL DRIVE, UNIT H EXETER, NEW HAMPSHIRE 03833

PLANNING BOARD SUBMISSION **COMPLETE SET 70 SHEETS**

PEASE DEVELOPMENT AUTHORITY 55 INTERNATIONAL DRIVE PORTSMOUTH, NEW HAMPSHIRE 03801

Tighe&Bond

177 CORPORATE DRIVE PORTSMOUTH, NEW HAMPSHIRE 03801

DOUCET SURVEY, INC. 102 KENT PLACE NEWMARKET, NEW HAMPSHIRE 03857





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4 of 4	EXISTING CONDITIONS PLAN	08/16/2018		
1 of 2	SUBDIVISION PLAN	11/2/2021		
2 of 2	SUBDIVISION PLAN	11/2/2021		

SHEET NO.LAST REVIEMASTER PLAN SET COVER SHEET11/9/202C-101DEMOLITION PLAN9/27/202C-102DEMOLITION PLAN11/9/202C-103DEMOLITION PLAN11/9/202C-104OVERALL SITE PLAN9/27/202C-105SITE PLAN11/9/202C-106SITE PLAN11/9/202C-107SITE PLAN11/9/202C-108GRADING, DRAINAGE & EROSION CONTROL PLAN11/9/202C-109GRADING, DRAINAGE & EROSION CONTROL PLAN11/9/202	
MASTER PLAN SET COVER SHEET 11/9/202 C-101 DEMOLITION PLAN 9/27/202 C-102 DEMOLITION PLAN 11/9/202 C-103 DEMOLITION PLAN 11/9/202 C-104 OVERALL SITE PLAN 9/27/202 C-105 SITE PLAN 9/27/202 C-106 SITE PLAN 11/9/202 C-107 SITE PLAN 11/9/202 C-108 GRADING, DRAINAGE & EROSION CONTROL PLAN 11/9/202 C-109 GRADING, DRAINAGE & EROSION CONTROL PLAN 11/9/202	ED
C-101 DEMOLITION PLAN 9/27/202 C-102 DEMOLITION PLAN 11/9/202 C-103 DEMOLITION PLAN 11/9/202 C-104 OVERALL SITE PLAN 9/27/202 C-105 SITE PLAN 11/9/202 C-106 SITE PLAN 11/9/202 C-107 SITE PLAN 11/9/202 C-108 GRADING, DRAINAGE & EROSION CONTROL PLAN 11/9/202 C-109 GRADING, DRAINAGE & EROSION CONTROL PLAN 11/9/202	3
C-102 DEMOLITION PLAN 11/9/202 C-103 DEMOLITION PLAN 11/9/202 C-104 OVERALL SITE PLAN 9/27/202 C-105 SITE PLAN 11/9/202 C-106 SITE PLAN 11/9/202 C-107 SITE PLAN 11/9/202 C-108 GRADING, DRAINAGE & EROSION CONTROL PLAN 11/9/202 C-109 GRADING, DRAINAGE & EROSION CONTROL PLAN 11/9/202	3
C-103 DEMOLITION PLAN 11/9/202 C-104 OVERALL SITE PLAN 9/27/202 C-105 SITE PLAN 11/9/202 C-106 SITE PLAN 11/9/202 C-107 SITE PLAN 11/9/202 C-108 GRADING, DRAINAGE & EROSION CONTROL PLAN 11/9/202 C-109 GRADING, DRAINAGE & EROSION CONTROL PLAN 11/9/202	3
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C-106 SITE PLAN 11/9/202 C-107 SITE PLAN 11/9/202 C-108 GRADING, DRAINAGE & EROSION CONTROL PLAN 11/9/202 C-109 GRADING, DRAINAGE & EROSION CONTROL PLAN 11/9/202	3
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C-108GRADING, DRAINAGE & EROSION CONTROL PLAN11/9/202C-109GRADING, DRAINAGE & EROSION CONTROL PLAN11/9/202	3
C-109 GRADING, DRAINAGE & EROSION CONTROL PLAN 11/9/202	3
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C-110 GRADING, DRAINAGE & EROSION CONTROL PLAN 11/9/202	3
C-111 UTILITIES PLAN 9/27/202	3
C-112 UTILITIES PLAN 11/9/202	3
C-113 UTILITIES PLAN 11/9/202	3
C-114 LANDSCAPE PLAN 9/27/202	3
C-115 LANDSCAPE PLAN 11/9/202	3
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C-117 PHOTOMETRIC LIGHTING PLAN 9/27/202	3
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C-162	PHASE 2 DEMOLITION PLAN	11/9/2023		
C-163	PHASE 2 DEMOLITION PLAN	11/9/2023		
C-163.1	PHASE 2 PRE-CONSTRUCTION LAYOUT PLAN	11/9/2023		
C-164	PHASE 2 OVERALL SITE PLAN	11/9/2023		
C-165	PHASE 2 SITE PLAN	11/9/2023		
C-166	PHASE 2 SITE PLAN	11/9/2023		
C-167	PHASE 2 SITE PLAN	11/9/2023		
C-168	PHASE 2 GRADING, DRAINAGE & EROSION CONTROL PLAN	11/9/2023		
C-169	PHASE 2 GRADING, DRAINAGE & EROSION CONTROL PLAN	11/9/2023		
C-170	PHASE 2 GRADING, DRAINAGE & EROSION CONTROL PLAN	11/9/2023		
C-171	PHASE 2 UTILITIES PLAN	11/9/2023		
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C-175	PHASE 2 LANDSCAPE PLAN	11/9/2023		
C-176	PHASE 2 LANDSCAPE PLAN	11/9/2023		
C-177	PHASE 2 PHOTOMETRIC LIGHTING PLAN	11/9/2023		
C-178	PHASE 2 PHOTOMETRIC LIGHTING PLAN	11/9/2023		
C-179	PHASE 2 PHOTOMETRIC LIGHTING PLAN	9/27/2023		
8-046-1-1110	FIRST FLOOR PLAN - CUB	8/24/2023		
8-046-1-2002	BUILDING ELEVATIONS (E-W) - CUB	8/24/2023		
8-046-1-2003	BUILDING ELEVATIONS (N-S) - CUB	9/18/2023		
8-070-1-1110	FIRST FLOOR PLAN - BL1	8/24/2023		
8-070-1-2001	OVERALL BUILDINGS ELEVATIONS	7/12/2023		
8-070-1-2002	BUILDING ELEVATIONS (E-W) - BL1	8/24/2023		
8-070-1-2003	BUILDING ELEVATIONS (N-S) - BL1	8/24/2023		

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C-501	EROSION CONTROL NOTES & DETAILS SHEET	9/27/2023			
C-502	DETAILS SHEET	11/9/2023			
C-503	DETAILS SHEET	11/9/2023			
C-504	DETAILS SHEET	9/27/2023			
C-505	DETAILS SHEET	9/27/2023			
C-506	DETAILS SHEET	9/27/2023			
C-507	DETAILS SHEET	9/27/2023			
C-508	DETAILS SHEET	9/27/2023			
C-509	DETAILS SHEET	11/9/2023			
C-510	DETAILS SHEET	9/27/2023			
C-511	DETAILS SHEET	9/27/2023			
C-512	DETAILS SHEET	9/27/2023			



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EXISTING CONDITIONS & SUBDIVISION PLANS APRIL 3, 2018 REVISED: NOVEMBER 2, 2021

LIST OF DRAWINGS				
SHEET NO.	SHEET NO. SHEET TITLE			
	COVER SHEET	11/2/2021		
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4 of 4	EXISTING CONDITIONS PLAN	08/16/2018		
1 of 2	SUBDIVISION PLAN	11/2/2021		
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COMPLETE SET 7 SHEETS

2	8/16/18	MOD. DRAINAGE	J.A.G.
		MOD. SOIL TYPES PER G.E.S.	
1	8/3/16	GENERAL EDITS AND	J.A.G.
		ADDED WETLANDS BUFFER	
NO.	DATE	DESCRIPTION	BY

ELECTRIC, GAS, TEL. WATER, SEWER AND DRAIN SERVICES ARE SHOWN IN SCHEMATIC ION, THEIR LOCATIONS ARE NOT PRECISE OR NECESSARILY ACCURATE. NO WORK SOEVER SHALL BE UNDERTAKEN ON THIS SITE USING THIS PLAN TO LOCATE THE ABOVE ICES. CONSULT WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE TIONS FOR INFORMATION REGARDING SUCH. CALL DIG-SAFE AT 1-888-DIG-SAFE.

DMH #1460 RIM ELEV.=58' (1461) 12" RCP INV.=51.6' (1456) 12" RCP INV.=51.5' (A) 15" RCP INV.=50.7'

CB #1456 RIM ELEV.=58.1' (1460) 12" RCP INV.=52.5'

CBR #1444 RIM ELEV.=48.3' 12" HDPE INV.=46.4' (SUMP) INV.=42.8'

CBR #1439 RIM ELEV.=47.4' (1438) 12" RCP INV.=45.2'

DMH #1438 RIM ELEV.=50.2' (A) 12" RCP INV.=44.6' (1439) 12" RCP INV.=44.6' (B) UNK. CMP INV.=42.9' (C) UNK. CMP INV.=42.9'

DMH #1421 RIM ELEV.=57.4' (1420) 12" RCP INV.=54.3' SUMP=53.4' (FULL OF SILT)

CB #1420 RIM ELEV.=58.1' (1345) 12" RCP INV.=54.4' (1421) 12" HDPE INV.=54.1'

DMH #1408 RIM ELEV.=56.8' NOT OPENED - OFF SITE

DMH #1401 RIM ELEV.=58.3' NOT OPENED - OFF SITE

CB #1399 RIM ELEV.=55.5' (1325) 15" RCP INV.=52.3'

CB #1381 RIM ELEV.=57.2' (1212) 15" RCP INV.=54.3' (1311) 15" RCP INV.=54.4'

CB #1345 RIM ELEV.=58.1' (1420) 12" RCP INV.=53.9'

DMH #1338 RIM ELEV.=57.7' (SUMP)=49.9' (LARGE VAULT)

CB #1325 RIM ELEV.=55.7' (1399) 15" RCP INV.=51.9' (1324) 12" RCP INV.=51.8'

CBR #1324 RIM ELEV.=55.7' (A) 12" RCP INV.=52.3' (1325) 12" RCP INV.=51.9' (1305) 15" RCP INV.=51.9' (B) 22" RCP INV.=51.7'

DRAINAGE STRUCTURE TABLE

(1019) 18" HDPE INV.=64.4'

(A) 18" HDPE INV.=64.4'

(A) 18" HDPE INV.=65.1'

(A) 6" HDPE INV.=62.0'

(1111) 12" RCP INV.=61.6'

(1095) 12" RCP INV.=61.6'

(1088) 12" RCP INV.=60.0'

(1137) 12" RCP INV.=59.7'

(1088) 12" RCP INV.=61.9'

(1095) 12" RCP INV.=57.3'

(1285) 15" RCP INV.=56.8'

(1141) 15" RCP INV.=56.8'

(1300) 12" RCP INV.=57.2'

(1137) 15" RCP INV.=56.9'

(1147) 15" RCP INV.=56.6'

(A) 15" RCP INV.=56.4'

(B) 18" ASB INV.=56.3'

(A) 15" RCP INV.=57.2'

(1141) 15" RCP INV.=57.1'

(1212) 15" RCP INV.=55.7'

(1183) 15" RCP INV.=54.8'

(1381) 15" RCP INV.=54.6'

(1137) 15" RCP INV.=57.0'

(1311) 12" RCP INV.=52.8'

(1324) 15" RCP INV.=52.7'

(1381) 15" RCP INV.=53.4'

(1305) 12" RCP INV.=53.0'

(A) 15" RCP INV.=52.7'

(1013) 18" HDPE INV.=64.7'

CB #1013

CB #1019

CB #1088

DMH #1095

CB #1111

CB #1137

DMH #1141

CB #1147

CB #1183

CB #1212

CB #1285

CBR #1305

CB #1311

RIM ELEV.=57.1'

RIM ELEV.=56.7'

RIM ELEV.=60.7'

RIM ELEV.=60.1'

RIM ELEV.=57.5'

RIM ELEV.=61.5'

RIM ELEV.=61.1'

RIM ELEV.=65.2'

RIM ELEV.=66.8'

RIM ELEV.=60.7'

RIM ELEV.=68.5'

RIM ELEV.=66.6'

RIM ELEV.=68.4'

DMH #1695 RIM ELEV.=42.8' (1732) 10" RCP INV.=36.4' (A) 48" RCP INV.=35.9' (B) NOT MEASURED (RECESSED - LARGE VAULT)

CB #1685 RIM ELEV.=39.2' (TOP OF WATER) INV.=36.6 (2330) 12" RCP INV.=36.4'

CB #1678 RIM ELEV.=39.2' (TOP OF WATER) INV.=36.5' (A) 12" RCP INV.=35.4'

CB #1651 RIM ELEV.=44.6' (1542) 12" RCP INV.=39.5' (A) 12" RCP INV.=39.5'

CB #1611 RIM ELEV.=42.4' (1572) 12" RCP INV.=37.8' (A) 12" RCP INV.=37.5'

CB #1586 RIM ELEV.=41.9' (1580) 15" RCP INV.=36.4' (A) 15" RCP INV.=36.6'

CB #1580 RIM ELEV.=41.7' (1586) 15" RCP INV.=36.8'

CB #1572 RIM ELEV.=42.2' (1611) 12" RCP INV.=38.2'

CB #1570 RIM ELEV.=40.7' (A) 18" RCP INV.=36.2' (B) 18" RCP INV.=36.2'

CB #1542 RIM ELEV.=44.4'(1651) 12" RCP INV.=41.0'

CB #1515 RIM ELEV.=54.1' BROKEN GRATE - NOT OPENED

CB #1504 RIM ELEV.=48.9' (A) 12" RCP INV.=42.7' (1484) 12" RCP INV.=42.6'

CB #1484 RIM ELEV.=49.0' BROKEN GRATE - NOT OPENED

CB #1478 RIM ELEV.=54.2' (1515) 12" RCP INV.=47.2'

CB #1461 RIM ELEV.=57.9' (1460) 12" RCP INV.=53.2'

> DMH #2336 RIM ELEV.=39.7' (A) 18" RCP INV.=36.1' (B) 24" RCP INV.=35.4'

DMH #2330 RIM ELEV.=40.4' (1685) 12" RCP INV.=36.5' (A) 12" RCP INV.=36.3' (B) 15" RCP INV.=36.1'

CBR #2329 RIM ELEV.=47.4' (A) 12" RCP INV.=42.0' SILT=41.9'

CBR #2327 RIM ELEV.=40.2' (A) 12" RCP INV.=38.3'

CB #2246 RIM ELEV.=65.5' NOT OPENED - SILT SOCK

CB #2170 RIM ELEV.=65.7' NOT OPENED - SILT SOCK

DMH #2153 RIM ELEV.=64.5' (SUMP) INV.=53.9' FULL OF WATER

CB #2152 RIM ELEV.=64.3' NOT OPENED - SILT SOCK

DMH #2142 RIM ELEV.=62.8' (A) 24" HDPE INV.=58.2' (B) 24" HDPE INV.=56.8'

CB #2031 RIM ELEV.=59.0' NOT OPENED - SILT SOCK

CB #1935 RIM ELEV.=49.7' NOT OPENED - SILT SOCK

RIM ELEV.=42.5' (1756) 12" RCP INV.=38.1' (A) 12" RCP INV.=33.5'

RIM ELEV.=42.5' (1769) 12" RCP INV.=39.2' CB #1769

DMH #1755 RIM ELEV.=42' (A) 24" RCP INV.=37.2' (B) 24" RCP INV.=37.1'

CB #1756

CBR #1733 RIM ELEV.=39.1' STRUCTURE DAMAGED

CB #1732

RIM ELEV.=39.1' (1695) 10" RCP INV.=37.3'



8-16-18 THE CERTIFICATIONS SHOWN HEREON ARE INTENDED TO MEET REGISTRY

ARE ACCORDING TO CURRENT TOWN ASSESSORS RECORDS.

I CERTIFY THAT THIS SURVEY AND PLAN WERE PREPARED BY ME OR BY THOSE UNDER MY DIRECT SUPERVISION AND FALLS UNDER THE URBAN SURVEY CLASSIFICATION OF THE NH CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS, I CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. RANDOM TRAVERSE SURVEY BY TOTAL STATION, WITH A PRECISION GREATER THAN 1:15,000.

OF DEED REQUIREMENTS AND ARE NOT A CERTIFICATION TO TITLE OR

OWNERSHIP OF PROPERTY SHOWN. OWNERS OF ADJOINING PROPERTIES

I CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBDIVISION PURSUANT TO THIS TITLE AND THAT THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN.

PURSUANT TO RSA 676:18, III:

SMH #1459 RIM ELEV.=58.8' (A) 8" PVC INV.=48.4' (1450) 18" PVC INV.=47.1' (B) 18" PVC INV.=47.1'

SMH #1450 RIM ELEV.=60.5' (1415) 18" PVC INV.=47.6' (1459) 18" PVC INV.=47.5'

SMH #1415 RIM ELEV.=57.9' (A) 12" PVC INV.=48.3' (1400) 18" UNK. INV.=47.9' (1450) 18" PVC INV.=48.0'

SMH #1400 RIM ELEV.=55.6' (1217) 15" ASB INV.=49.3' (1415) 15" ASB INV.=49.3'

SMH #1296 RIM ELEV.=63.7' (1123) 8" PVC INV.=55.5' (2326) 8" UNK. INV.=55.0' (1184) 8" UNK. INV.=55.0'

SMH #1217 RIM ELEV.=57.9' (1184) 15" STEEL INV.=52.3' (1400) 15" STEEL INV.=52.2'

SMH #1184 RIM ELEV.=60.4' (1296) 8" CLAY INV.=54.2' (1217) 15" STEEL INV.=52.7' (1169) 15" STEEL INV.=52.7'

SMH #1169 RIM ELEV.=65.2' (1184) 15" STEEL INV.=53.8' (A) 15" STEEL INV.=53.8'

SMH #1123 RIM ELEV.=64' (1295) 8" PVC INV.=55.8'

SMH #1078 RIM ELEV.=69.0' COULD NOT OPEN

SMH #1067 RIM ELEV.=68.6' (1062) 8" CLAY INV.=60.4' (2242) 8" UNK. INV.=60.3'

SEWER STRUCTURE TABLE SMH #1062 RIM ELEV.=69.8' (A) 6" CLAY INV.=63.9' (B) 6" CLAY INV.=63.7' (1067) 8" CLAY INV.=62.6'

> SMH #2328 RIM ELEV.=43.1' (1551) 12" UNK INV.=32.3' (A) 18" UNK INV.=32.3'

SMH #2326 RIM ELEV.=68.1' (1078) 8" PVC INV.=62.2' (1296) 8" ASB INV.=62.1'

SMH #2242 RIM ELEV.=65.0' (1067) 8" CLAY INV.=56.8' (2187) 8" CLAY INV.=57.0'

SMH #2187 RIM ELEV.=63' (A) 6" PVC INV.=54.9' (2242) 8" PVC INV.=54.9' (2080) 8" PVC INV.=54.9'

SMH #2080 RIM ELEV.=57.9' (A) 8" UNK. INV.=50.1' 2187) 8" UNK. INV.=50.1' (1953) 8" UNK. INV.=49.9'

SMH #1953 RIM ELEV.=50.1' (A) 6" CLAY INV.=42.4' (2080) UNK. INV.=42.2' (1921) UNK. INV.=42.2'

SMH #1921 RIM ELEV.=44.8' (1953) UNK. INV.=37' (1784) UNK. INV.=36.9'

SMH #1784 RIM ELEV.=41.1' (1921) 10" UNK. INV.=35.4' (1691) 10" UNK. INV.=35.5'

SMH #1722 RIM ELEV.=41.1' (A) 6" CLAY INV.=33.2' (1691) UNK. CLAY INV.=33.1'

SMH #1691 RIM ELEV.=39.9' (1784) UNK. INV.=34.2' (1722) UNK. INV.=34.1'

SMH #1551 RIM ELEV.=43.6' (A) 8" PVC INV.=35.6' (B) 12" UNK. INV.=34.2' (C) 12" UNK. INV.=34.1'

> 3 \odot (\cdot) 53. 0.00 1.1.1.1.1.1.P. Ø BND. FND. D.H.F. EP SWL DYL VGC

DRILL HOLE FOUND EDGE OF PAVEMENT SINGLE WHITE LINE DOUBLE YELLOW LINE VERTICAL GRANITE CURB HISS SOIL TYPE

LEG	END
00	CHAIN LINK FENCE
OHW	OVERHEAD WIRES
s	SEWER LINE
D	DRAIN LINE
G	WATER LINE
E	UNDERGROUND ELECTRIC LINE
XS	SEWER LINE PER REF. PLAN #15
XD	DRAIN LINE PER REF. PLAN #15
XG	GAS LINE PER REF. PLAN #15
	MAJOR CONTOUR LINE
98	MINOR CONTOUR LINE
	TREE LINE
— · · — · · —	EDGE OF WETLAND (SEE NOTE #6)
	HISS LINE (SEE NOTE #6)
- P -	SIGN
	GRANITE BOUND FOUND
۲	DRILL HOLE FOUND
0	IRON PIPE/ROD FOUND
	5/8" REBAR W/ ID CAP TO BE SET
	BOLLARD
X	FIRE HYDRANT
Š	WATER GATE VALVE
sх	GAS GATE VALVE
	PAD MOUNTED TRANSFORMER
E	
	UTILITY BOX
C	CABLE BOX
⊕	CATCH BASIN
	CATCH BASIN
	DRAIN MANHOLE
	FLARED END SECTION
Ē	ELECTRIC MANHOLE
Ū	TELEPHONE MANHOLE
S	CLEANOUT
KO	CATCH BASIN PER REF. PLAN #15
	DRAIN MANHOLE PER REF. PLAN #15
8	SEWER MANHOLE PER REF. PLAN #15
Ü	HAND HOLE
ANT A	WEILAND AREA
8	CONFEROUS TREE
0	DECIDOOUS TREE
	CUNCKETE
543.	RIP RAP
	GRAVEL AREA
BND. FND.	ROOND FOOND

12. "SUBDIVISION PLAN OF LAND OF PEASE DEVELOPMENT AUTHORITY TO BE LEASED TO NORTHEAST 1. REFERENCE: REHABILITATION (A PORTION OF TAX MAP 303, LOT 6) 105 & 121 CORPORATE DRIVE, PEASE TRADEPORT, PORTSMOUTH, NEW HAMPSHIRE" DATED NOV. 5, 2008 BY DOUCET SURVEY, INC. R.C.R.D. PLAN #D-35869.

- 13. "CONDOMINIUM SITE & FLOOR PLAN PREPARED FOR PIONEER NEW HAMPSHIRE, LLC, LAND OF PEASE DEVELOPMENT AUTHORITY, TAX MAP PARCEL 305-3 (108, 110, 112 & 114 CORPORATE DRIVE) PORTSMOUTH, NEW HAMPSHIRE" DATED APRIL 12, 2013 BY FIELDSTONE LAND
- CONSULTANTS, PLLC. SHEET 1 OF 5. R.C.R.D. PLAN #D-37765.
- 14. "SUBDIVISION PLAN FOR PEASE DEVELOPMENT AUTHORITY, (TAX MAP 303, LOT 4) 67 CORPORATE DRIVE, PEASE TRADEPORT, PORTSMOUTH NEW HAMPSHIRE" DATED MAY 29, 2009 BY DOUCET
- SURVEY, INC. (NOT RECORDED) 15. "EXISTING CONDITIONS, BUILDING A, 80 CORPORATE DRIVE AND BUILDING B, 70 CORPORATE
- DRIVE, PORTSMOUTH, NH" DATED 4/14/2000 AND REVISED 6/05/2000 BY OPECHEE CONSTRUCTION CORPORATION. (NOT RECORDED)

PORTSMOUTH, NH" DATED APRIL 11, 2000 BY FWS LAND SURVEYING P.L.L.C. R.C.R.D. PLAN

- ROCKINGHAM, PORTSMOUTH, N.H." DATED DECEMBER 10, 1994 BY RICHARD P. MILLETTE AND ASSOCIATES. R.C.R.D. PLAN #D-23978.
- 5. "SUBDIVISION PLAN OF LAND FOR REDHOOK ALE BREWERY, INC. CORPORATE DRIVE, COUNTY OF

6. "ALTA/ACSM LAND TITLE SURVEY FOR RESPORT, LLC, ONE INTERNATIONAL DRIVE, COUNTY OF

ROCKINGHAM, PORTSMOUTH, N.H." DATED FEBRUARY 27, 1998 BY MILLETTE, SPRAGUE &

8. "SUBDIVISION PLAN FOR LAND LEASED BY PEASE DEVELOPMENT AUTHORITY & KNOWN AS #119

INTERNATIONAL DRIVE LOCATED AT PEASE INTERNATIONAL TRADEPORT, PORTSMOUTH, N.H."

DATED MARCH 1, 2000 BY KNIGHT HILL LAND SURVEYING SERVICES, INC. R.C.R.D. PLAN

7. "FRANKLIN PIERCE COLLEGE, PEASE INTERNATIONAL TRADEPORT, 73 CORPORATE DRIVE,

9. "SUBDIVISION PLAT PREPARED FOR 80 CORPORATE DRIVE LLC C/O BOULOS PROPERTY

COLWELL, INC. R.C.R.D. PLAN #D-26125.

- 4. "PEASE INTERNATIONAL TRADEPORT SUBDIVISION PLAT, INTERNATIONAL DRIVE LOTS BC11-001 & BC11-002, PORTSMOUTH, N.H." DATED FEBRUARY 5, 1993 BY RICHARD D. BARTLETT & ASSOCIATES INC. R.C.R.D. PLAN #D22536.

2. "PEASE A.F.B. / PORTSMOUTH, N.H. REPAVE BASE STREETS, PORTSMOUTH AVE, ROCKINGHAM AVE." DATED 7 DEC 82 BY STRATETIC AIR COMMAND CIVIL ENGINEERING. SHEET 4 OF 5

DEC. 21, 1992 BY RICHARD D. BARTLETT & ASSOCIATES, INC. SHEETS 1 AND 2.

REFERENCE PLANS:

#D-28059.

3. "PORTSMOUTH AIR FORCE BASE, PORTSMOUTH, N.H. ROADS AND STORAGE AREA FY-56" DATED DEC 1955 BY WHITMAN & HOWARD ENGINEERS. INDEX PAGE AND SHEETS 2 - 5 OF 11.





SOIL IDENTIFICATION LEGEND SYMBOL SOIL TAXONOMIC NAME, SLOPE RATING CHATFIELD, 8 TO 15 PERCENT SLOPES 89C 313B DEERFIELD, 0 TO 8 PERCENT SLOPES 313C DEERFIELD, 8 TO 15 PERCENT SLOPES 915B DEERFIELD VARIANT, 0 TO 8 PERCENT SLOPES 546B/P WALPOLE POORLY DRAINED, 0 TO 8 PERCENT SLOPES 799B UDORTHENTS URBAN LAND, 0 TO 8 PERCENT SLOPES 799E UDORTHENTS URBAN LAND, >25 PERCENT SLOPES PURSUANT TO RSA 676:18, III: I CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBDIVISION PURSUANT TO THIS TITLE AND THAT THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN. I CERTIFY THAT THIS SURVEY AND PLAN WERE PREPARED BY ME OR BY THOSE UNDER MY DIRECT SUPERVISION AND FALLS UNDER THE URBAN SURVEY CLASSIFICATION OF THE NH CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS. I CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. RANDOM TRAVERSE SURVEY BY TOTAL STATION, WITH A PRECISION GREATER THAN 1:15,000." Afry & Malling L.L.S. #964 8-16-18 THE CERTIFICATIONS SHOWN HEREON ARE INTENDED TO MEET REGISTRY OF DEED REQUIREMENTS AND ARE NOT A CERTIFICATION TO TITLE OR OWNERSHIP OF PROPERTY SHOWN. OWNERS OF ADJOINING PROPERTIES ARE ACCORDING TO CURRENT TOWN ASSESSORS RECORDS. EXISTING CONDITIONS PLAN FOR TIGHE & BOND AND LONZA LAND OF PEASE DEVELOPMENT AUTHORITY (TAX MAP 305, LOTS 1 & 2) GOOSE BAY DRIVE & CORPORATE DRIVE PORTSMOUTH, NEW HAMPSHIRE DEC. 23, 2015 K.C.W. DRAWN BY: DATE: J.A.G. 4375A CHECKED BY: AWING NO . Serving You 4375 102 Kent Place, Newmarket, NH 038 SHEET rview Suite) Kennebunk, ME (207) 502-700 http://www.doucetsurvey.com FILE NAME: C:\Users\Jeff\appdato\local\temp\AcPublish_8524\4375A.dwg LAYOUT NAME: DSI 22X34 (2) PLOTTED: Thursday, August 16, 2018 - 3:18pm







	REFERENCE:	TAX MAP 305, LOTS 5 & 6	
		PHYSICAL ADDRESS: 101 INTERNATIONAL DRIVE TAX MAP 305, LOTS 1 & 2 PHYSICAL ADDRESS: 70 CORPORATE DRIVE TAX MAP 305, LOT 7 PHYSICAL ADDRESS: 71 INTERNATIONAL DRIVE	
2.	PROPOSED LEASE AREA:	TAX MAP 305 LOT 6: 1889 305 SO FT OR 4	
3.	OWNER OF RECORD:	PEASE DEVELOPMENT AUTHORITY 55 INTERNATIONAL DRIVE PORTSMOUTH, NEW HAMPSHIRE 03801 R.C.R.D. BOOK 4227, PAGE 001	
4.	LESSEE OF RECORD:	TAX MAP 305. LOTS 5 & 6 LONZA BIOLOGICS, INC. 101 INTERNATIONAL DRIVE PORTSMOUTH, NEW HAMPSHIRE 03801 R.C.R.D. BOOK 3015, PAGE 2559 (LEASE EXTENSIONS AND MODIFICATIONS HAVE NOT BEEN RECORDED, BUT HAVE BEEN PROVIDED BY THE LESSEE) SEE REFERENCE PLAN 10	
5.	ZONE: AIRPORT, BUSINESS, DIMENSIONAL REQUIREMENTS	AND COMMERCIAL (ABC)	
	MINIMUM LOT AREA MINIMUM STREET FRONTAGE FRONT YARD SETBACK SIDE SETBACK REAR SETBACK MINIMUM OPEN SPACE	217,800 sq.ft. OR 5.0 AC. 200 ft. 70 ft. 30 ft. 50 ft. 25 %	
	MAXIMUM STRUCTURE HEIGH	T SHALL NOT EXCEED FAA CRITERIA	
	WETLAND BUFFER	25 ft. (PER PDA REGULATIONS: WETLANDS LESS THAN 1, NOT HAVE A BUFFER)	/4 ACRE DO
	ZONING INFORMATION LISTED AND REFERENCE IS HEREBY FOR COMPLYING WITH ALL A	HEREON WAS PROVIDED BY TIGHE & BOND. ADDITIONAL REMADE TO THE EFFECTIVE ZONING ORDINANCE. THE LAND OV PPLICABLE MUNICIPAL, STATE, AND FEDERAL REGULATIONS.	GULATIONS APPLY, WNER IS RESPONSIBLE
5.	FIELD SURVEY PERFORMED B STATION WITH A TRIMBLE TS ANALYSIS.	BY B.T. & J.C.M. DURING MARCH 2018 USING A TRIMBLE S6 C3 DATA COLLECTOR. TRAVERSE ADJUSTMENT BASED ON LI	ROBOTIC TOTAL EAST SQUARE
7.	FLOOD HAZARD ZONE:"X", P	ER FIRM MAP #33015C0260F, MAP REVISED JANUARY 29, 2	021.
3.	HORIZONTAL DATUM BASED	ON NH STATE PLANE 2800(NAD83/86) PER REFERENCE PLA	NS 10, 11, & 12.
	THE INTENT OF THIS PLAN IS RELATION TO THE CURRENT DETERMINE THE EXTENT OF (S TO SHOW THE LOCATION OF BOUNDARIES IN ACCORDANCE LEGAL DESCRIPTION, AND IS NOT AN ATTEMPT TO DEFINE L OWNERSHIP, OR DEFINE THE LIMITS OF TITLE.	WITH AND IN INWRITTEN RIGHTS,
0. 10. 10.	TAX MAP 305, LOTS 1 & 2 FOLLOWING EASEMENTS/RIGH A. 50' WIDE ACCESS EASEM B. APPROXIMATE LOCATION MAINTAINING A DRAINAGE	ARE EITHER SUBJECT TO OR IN BENEFIT OF, BUT NOT LIMIT TS OF RECORD: ENT FOR THE BENEFIT OF LOT 305-2. (SHOWN PER REFERE OF 20' MIDE LICENSE TO THE CITY OF PORTSMOUTH FOR THE E LINE. (SHOWN PER REFERENCE PLAN 9)	ED TO, THE ENCE PLAN 9) HE PURPOSES OF
1. 11. 11.	TAX MAP 305, LOTS 5 & 6 FOLLOWING EASEMENTS/RIGH A. 15' WIDE DRAINAGE EASE B. DRAINAGE EASEMENT. (SH	ARE EITHER SUBJECT TO OR IN BENEFIT OF, BUT NOT LIMIT TS OF RECORD: MENT. (SHOWN PER REFERENCE PLAN 10) HOWN PER REFERENCE PLAN 10)	ED TO, THE
2. [FINAL MONUMENTATION MAY THE FACT THAT SITE CONDIT INSTALLED IN THE FIELD. PLE RECORDED OR CONTACT DOU WILL BE PRODUCED AT THE D	BE DIFFERENT THAN THE PROPOSED MONUMENTATION SHOW IONS WILL DICTATE THE ACTUAL LOCATION AND TYPE OF M EASE REFER TO EITHER THE "MONUMENTATION LOCATION PL CET SURVEY, INC. FOR CLARIFICATION OF MONUMENTS SET. DISCRETION OF DOUCET SURVEY, INC.).	N HEREON, DUE TO ONUMENTS AN" TO BE (A RECORDED PLAN
١			
۱ 3. ۱	MPROVEMENTS SHOWN HERE	UN ARE APPROXIMATE.	
3. 1 4. F 14./ 14.E	MPROVEMENTS SHOWN HERE REGARDING THE PORTION GOO A. THE PEASE DEVELOPMENT THE TRADEPORT REMAINS 3. THE PEASE DEVELOPMENT EASEMENTS ON LANDS IN OVERHEAD ELECTRIC, TEL	ON ARE APPROXIMATE. OSE BAY DRIVE TO BECOME PART OF THE PROPOSED LEA TAUTHORITY REPORTS THAT THE OWNERSHIP UNDERLYING VESTED IN THE PEASE DEVELOPMENT AUTHORITY TAUTHORITY REPORTS THAT THERE ARE UNDER THEIR OWNERSHIP. THIS MAY INCLUDE, BUT ECOMMUNICATIONS, GAS, WATER, AND SEW	AREA: DADWAYS WITHIN T UTILITY BURIED

D-43132 Sheet 2052

REFERENCE PLANS:

- 1. "R.O.W. WORKSHEET, CORPORATE DRIVE PREPARED FOR PEASE DEVELOPMENT AUTHORITY" DATED DEC. 21, 1992 BY RICHARD D. BARTLETT & ASSOCIATES, INC. SHEETS 1 AND 2. (NOT RECORDED)
- 2. "PEASE A.F.B. / PORTSMOUTH, N.H. REPAVE BASE STREETS, PORTSMOUTH AVE, ROCKINGHAM AVE." DATED 7
- DEC 82 BY STRATETIC AIR COMMAND CIVIL ENGINEERING. SHEET 4 OF 5. (NOT RECORDED)
- 3. "PORTSMOUTH AIR FORCE BASE, PORTSMOUTH, N.H. ROADS AND STORAGE AREA FY-56" DATED DEC 1955 BY WHITMAN & HOWARD ENGINEERS. INDEX PAGE AND SHEETS 2 - 5 OF 11. (NOT RECORDED)
- 4. "PEASE INTERNATIONAL TRADEPORT SUBDIVISION PLAT, INTERNATIONAL DRIVE LOTS BC11-001 & BC11-002, PORTSMOUTH, N.H." DATED FEBRUARY 5, 1993 BY RICHARD D. BARTLETT & ASSOCIATES INC. R.C.R.D. PLAN D-22536.
- 5. "SUBDIVISION PLAN OF LAND FOR REDHOOK ALE BREWERY, INC. CORPORATE DRIVE, COUNTY OF ROCKINGHAM. PORTSMOUTH, N.H." DATED DECEMBER 10, 1994 BY RICHARD P. MILLETTE AND ASSOCIATES. R.C.R.D. PLAN D-23978.
- 6. "ALTA/ACSM LAND TITLE SURVEY FOR RESPORT, LLC, ONE INTERNATIONAL DRIVE, COUNTY OF ROCKINGHAM, PORTSMOUTH, N.H." DATED FEBRUARY 27, 1998 BY MILLETTE, SPRAGUE & COLWELL, INC. R.C.R.D. PLAN D-26125.
- 7. "FRANKLIN PIERCE COLLEGE, PEASE INTERNATIONAL TRADEPORT, 73 CORPORATE DRIVE, PORTSMOUTH, NH" DATED JANUARY 15, 1998 BY RONALD R. BURD. R.C.R.D. PLAN D-26427.
- 8. "SUBDIVISION PLAN FOR LAND LEASED BY PEASE DEVELOPMENT AUTHORITY & KNOWN AS 119 INTERNATIONAL DRIVE LOCATED AT PEASE INTERNATIONAL TRADEPORT, PORTSMOUTH, N.H." DATED MARCH 1, 2000 BY KNIGHT HILL LAND SURVEYING SERVICES, INC. R.C.R.D. PLAN D-28059.
- 9. "SUBDIVISION PLAT PREPARED FOR 80 CORPORATE DRIVE LLC C/O BOULOS PROPERTY MANAGEMENT, LOCATION CORPORATE & GOOSE BAY DRIVES, PEASE INTERNATIONAL TRADEPORT - PORTSMOUTH, NH" DATED APRIL 11, 2000 BY FWS LAND SURVEYING P.L.L.C. R.C.R.D. PLAN D-28447.
- 10. "LEASE LINE REVISION PLAN FOR LONZA BIOLOGICS, INC. 101 INTERNATIONAL DRIVE, PORTSMOUTH, NEW HAMPSHIRE" DATED SEPT. 17, 2001 BY DOUCET SURVEY, INC. R.C.R.D. PLAN D-29538.
- 11. "SUBDIVISION PLAN OF LAND OF PEASE DEVELOPMENT AUTHORITY TO BE LEASED TO NORTHEAST REHABILITATION (A PORTION OF TAX MAP 303, LOT 6) 105 & 121 CORPORATE DRIVE, PEASE TRADEPORT, PORTSMOUTH, NEW HAMPSHIRE" DATED NOV. 5, 2008 BY DOUCET SURVEY, INC. R.C.R.D. PLAN D-35869.
- 12. "CONDOMINIUM SITE & FLOOR PLAN PREPARED FOR PIONEER NEW HAMPSHIRE, LLC, LAND OF PEASE DEVELOPMENT AUTHORITY, TAX MAP PARCEL 305-3 (108, 110, 112 & 114 CORPORATE DRIVE) PORTSMOUTH, NEW HAMPSHIRE" DATED APRIL 12, 2013 BY FIELDSTONE LAND CONSULTANTS, PLLC. SHEET 1 OF 5. R.C.R.D. PLAN D-37765.
- 13. "SUBDIVISION PLAN FOR PEASE DEVELOPMENT AUTHORITY, (TAX MAP 303, LOT 4) 67 CORPORATE DRIVE, PEASE TRADEPORT, PORTSMOUTH NEW HAMPSHIRE" DATED MAY 29, 2009 BY DOUCET SURVEY, INC. (NOT RECORDED)
- 14. "EXISTING CONDITIONS, BUILDING A, 80 CORPORATE DRIVE AND BUILDING B, 70 CORPORATE DRIVE, PORTSMOUTH, NH" DATED 4/14/2000 AND REVISED 6/05/2000 BY OPECHEE CONSTRUCTION CORPORATION. (NOT RECORDED)
- 15. "EXISTING CONDITIONS PLAN FOR TIGHE & BOND AND LONZA, LAND OF PEASE DEVELOPMENT AUTHORITY, (TAX MAP 305, LOTS 1 & 2), GOOSE BAY DRIVE & CORPORATE DRIVE, PORTSMOUTH, NEW HAMPSHIRE" DATED DECEMBER 23, 2015 BY DOUCET SURVEY, INC. (NOT RECORDED)
- 16. "119 INTERNATIONAL DRIVE CONDOMINIUM, CONDOMINIUM SITE PLAN, FOR PROPERTY OWNED BY PEASE DEVELOPMENT AUTHORITY, LEASED TO 119 INTERNATIONAL DRIVE, LLC, KNOWN AS PORTSMOUTH TAX MAP 305, LOT 4, PORTSMOUTH, NH" DATED OCT. 10, 2017 BY KNIGHT HILL LAND SURVEYING SERVICES, INC. R.C.R.D. PLAN 40449
- 17. "ALTA/NSPS LAND TITLE SURVEY FOR 130 INTERNATIONAL DRIVE, LLC AND PEASE DEVELOPMENT AUTHORITY, 130 INTERNATIONAL DRIVE, PORTSMOUTH, NH" DATED JULY 2017 AND REVISED THROUGH 8/9/17 BY DOUCET SURVEY, INC. (NOT RECORDED)
- 18. "ALTA/ACSM LAND TITLE SURVEY FOR 100 INTERNATIONAL DRIVE, LLC, 100 INTERNATIONAL DRIVE, PEASE INTERNATIONAL TRADEPORT, PORTSMOUTH, NH" DATED MARCH 30, 2006 BY DOUCET SURVEY, INC. (NOT RECORDED)
- 19. "CITY OF PORTSMOUTH, NEW HAMPSHIRE, FOR CONSTRUCTION, CORPORATE DRIVE AND GOOSE BAY DRIVE SEWER IMPROVEMENTS" DATED JULY 28, 2017 BY UNDERWOOD ENGINEERS, INC. (NOT RECORDED)
- 20. "SUBDIVISION PLAN FOR LONZA BIOLOGICS, INC. AND THE PEASE DEVELOPMENT AUTHORITY OF TAX MAP 305, LOTS 1, 2, 5 & 6 AND GOOSE BAY DRIVE, INTERNATIONAL DRIVE - CORPORATE DRIVE - GOOSE BAY DRIVE, PORTSMOUTH, NEW HAMPSHIRE" DATED APRIL 16, 2018 BY DOUCET SURVEY, INC (NOT RECORDED)
- 21. "APPENDIX VI, MUNICIPAL SERVICES AGREEMENT BETWEEN CITY OF PORTSMOUTH. TOWN OF NEWINGTON AND PEASE DEVELOPMENT AUTHORITY" EFFECTIVE AS OF JULY 1, 1998 (ROADWAY WIDTHS) (NOT RECORDED)
- 22. "THIRD AMENDED SITE/FLOOR PLAN ADDENDUM FOR 75 NEW HAMPSHIRE CONDOMINIUM SHOWING BUILDING 5 -UNIT 6 - LIMITED COMMON AREA" DATED JULY 2019 BY KNIGHT HILL LAND SURVEYING SERVICES, INC. R.C.R.D. PLAN D-41611
- 23. "LEASE LINE DISCONTINUANCE & EXISTING BUILDING UPDATE PLAN, 25, 29 RETAIL CONDOMINIUM" DATED DECEMBER 2018 AND REVISED JULY 20, 2017 BY KNIGHT HILL LAND SURVEYING SERVICES. R.C.R.D. PLAN D-40388
- 24. "SUBDIVISION PLAN AT 30 INTERNATIONAL DRIVE AT PEASE INTERNATIONAL TRADEPORT, PORTSMOUTH, NEW HAMPSHIRE" DATED JANUARY 1997 BY CLD CONSULTING ENGINEERS & SURVEYORS R.C.R.D. PLAN D-25370
- 25. "LEASE LINE REVISION FOR BARNPORT, LLC AND PEASE DEVELOPMENT AUTHORITY, 27 INTERNATIONAL DRIVE, PORTSMOUTH, NEW HAMPSHIRE" DATED APRIL 11, 2000 BY DOUCET SURVEY, INC. R.C.R.D. PLAN D-28254

	LINE TABL	E		LINE TABL	E
LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE
L1	S45'42'46"E	50.48'	L18	N49'42'47"W	102.16'
L2	S34*54'07"W	60.00'	L19	N54'07'45"W	195.64'
L3	S38*27'58"W	58.32'	L20	N59"11'41"W	116.15'
L4	N19'46'25"W	11.01'	L21	N61*40'21"W	179.46'
L5	N83'06'54"W	66.09'	L22	N58'20'21"W	187.76'
L6	N67*48'03"W	196.60'	L23	S34*54'07"W	10.02'
L7	S22'03'02"W	14.87'	L24	N58*20'21"W	186.91'
L8	S33*35'17"W	57.08'	L25	N61*40'21"W	179.39'
L9	S42'06'02"W	43.59'	L26	N59'11'41"W	116.81'
L10	N55*44'33"W	33.55'	L27	N54'07'45"W	196.47'
L11	N67*48'03"W	122.22'	L28	N49'42'47"W	103.08'
L12	N22"11'57"E	10.00'	L29	N43"37'13"W	100.81'
L13	N19*52'39"W	313.89'	L30	N40°07'36"W	108.68'
L14	N27'09'05"W	222.06'	L31	N33*51'22"W	176.39'
L15	N33*51'22"W	175.26'	L32	N27'09'05"W	223.29'
L16	N40'07'36"W	107.83'	L33	N19'52'39"W	316.47'
L17	N43*37'13"W	99.98'	L34	S34*54'07"W	32.65'

		1000	CURVE TABLE		
CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C1	152.83'	63.00'	138'59'47"	S61*54'24"W	118.02'
C2	75.52'	50.06'	86*26'09"	S81'41'02"W	68.56'
C3	181.41'	1752.84'	5'55'47"	N58'03'47"W	181.33'
C4	338.74'	1420.00'	13*40'04"	S54'11'54"E	337.94'
C5	623.87'	1420.00'	25'10'21"	S34'46'41"E	618.86'
C6	60.72'	500.00'	6'57'30"	S18'42'46"E	60.69'
C7	60.50'	35.00'	99*01'56"	S34*16'57"W	53.24'
C8	466.96'	1540.26'	17'22'14"	N87'30'58"W	465.18'
C9	23.43'	1540.26'	0°52'17"	N78'23'43"W	23.43'
C10	300.24'	1540.26'	11'10'07"	N62*21'55"W	299.77'
C11	237.27'	2450.00'	5*32'56*	N54'00'23"W	237.18'
C12	153.95'	170.00'	51*53'06"	N7'38'44"E	148.74'
C13	117.72'	130.00'	51'53'06"	N7'38'44"E	113.74'
C14	91.22'	130.00'	40"12'15"	N38*23'56"W	89.36'
C15	175.20'	1692.80'	5*55'47"	N58'03'47"W	175.12'
C16	942.18'	1480.00'	36*28'30"	S42*47'41"E	926.35'
C17	61.10'	1480.00'	2'21'56"	N23*22'29"W	61.10'
C18	115.23'	560.00'	11'47'23"	N16*17'50"W	115.03'
C19	18.12'	3710.06'	0'16'48"	S80°54'45"W	18.12'
C20	10.19'	3710.06'	0*09'26"	N81'07'52"E	10.19'
C21	298.54'	3710.06*	4'36'38"	N78°05'40"E	298.46'
C22	54.86'	3710.06*	0*50*50"	N80'49'24"E	54.86'
C23	68.59'	1540.26'	2*33'06"	N82'31'22"E	68.59'
C24	910.09'	1540.26'	33*51'16"	S79'16'27"E	896.91'
C25	149.63'	1540.26'	5'33'58"	S59'33'50"E	149.57'
C26	473.28'	2450.00'	11'04'05"	S51'14'49"E	472.54'
C27	24.14'	3710.06'	0*22*22"	N80*35'10"E	24.14'



12/16/2

PPRO NG BOARD

I CERTIFY THAT THIS SURVEY AND PLAN WERE PREPARED BY ME OR BY THOSE UNDER MY DIRECT SUPERVISION AND FALLS UNDER THE URBAN SURVEY CLASSIFICATION OF THE NH CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS. I CERTIFY THAT THIS SURVEY WAS MADE ON THE GROUND AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. RANDOM TRAVERSE SURVEY BY TOTAL STATION, WITH A PRECISION GREATER THAN 1:15,000.

L.L.S. #964 6-21-2021

THE CERTIFICATIONS SHOWN HEREON ARE INTENDED TO MEET REGISTRY OF DEED REQUIREMENTS AND ARE NOT A CERTIFICATION TO TITLE OR OWNERSHIP OF PROPERTY SHOWN. OWNERS OF ADJOINING PROPERTIES ARE ACCORDING TO CURRENT TOWN ASSESSORS RECORDS.

SUBDIVISION PLAN

LAND OF PEASE DEVELOPMENT AUTHORITY LEASED TO LONZA BIOLOGICS, INC. OF TAX MAP 305 LOTS 1, 2, 5, 6, & 7 AND GOOSE BAY DRIVE

INTERNATIONAL DRIVE - CORPORATE DRIVE GOOSE BAY DRIVE PORTSMOUTH, NEW HAMPSHIRE

1	11/02/21	ADDE	D MONUMENTS SET	J.A.G.
NO.	DATE		DESCRIPTION	BY
DRA	WN BY:	W.D.C.	DATE: JUNE 21, 20	21
CHE	CKED BY:	J.A.G.	DRAWING NO.: 6228	В
		6228	2	2

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ted: 4:27 PM | 2023 Plott

MASTER PLAN SET APRIL 3, 2018 REVISED: NOVEMBER 9, 2023

LIST OF DRAWINGS				
SHEET NO.	SHEET TITLE	LAST REVISED		
	MASTER PLAN SET COVER SHEET	11/9/2023		
C-101	DEMOLITION PLAN	9/27/2023		
C-102	DEMOLITION PLAN	11/9/2023		
C-103	DEMOLITION PLAN	11/9/2023		
C-104	OVERALL SITE PLAN	9/27/2023		
C-105	SITE PLAN	11/9/2023		
C-106	SITE PLAN	11/9/2023		
C-107	SITE PLAN	11/9/2023		
C-108	GRADING, DRAINAGE & EROSION CONTROL PLAN	11/9/2023		
C-109	GRADING, DRAINAGE & EROSION CONTROL PLAN	11/9/2023		
C-110	GRADING, DRAINAGE & EROSION CONTROL PLAN	11/9/2023		
C-111	UTILITIES PLAN	9/27/2023		
C-112	UTILITIES PLAN	11/9/2023		
C-113	UTILITIES PLAN	11/9/2023		
C-114	LANDSCAPE PLAN	9/27/2023		
C-115	LANDSCAPE PLAN	11/9/2023		
C-116	LANDSCAPE PLAN	11/9/2023		
C-117	PHOTOMETRIC LIGHTING PLAN	9/27/2023		
C-118	PHOTOMETRIC LIGHTING PLAN	9/27/2023		
C-119	PHOTOMETRIC LIGHTING PLAN	9/27/2023		

COMPLETE SET 20 SHEETS







DEMOLITION NOTES: UND UTILITIES ARE APPROXIMATE AND THE LOCATIONS ARE NOT R THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL	Tighe&Bond
CIS, REPAIR EXISTING UTILITIES AND RELOCATE EXISTING UTILITIES ORK. Y LOCATION OF ALL EXISTING UTILITIES. CALL DIG SAFE AT LEAST 72 HOURS	
OF ANY DEMOLITION/CONSTRUCTION ACTIVITIES. BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS INTRACTOR SHALL DISPOSE OF ALL MATERIALS OFF-SITE IN ACCORDANCE D LOCAL REGULATIONS, ORDINANCES AND CODES EXCEPT AS SPECIFIED IN	
ATION, DISPOSAL OR SALVAGE OF UTILITIES WITH THE OWNER AND Y.	
RTY DAMAGED OR DISRUPTED BY CONSTRUCTION/ DEMOLITION ACTIVITIES ED TO MATCH ORIGINAL EXISTING CONDITIONS BY THE CONTRACTOR AT NO IER.	NUMBER OF NEW HARA
NT ONE (1) FOOT OFF PROPOSED EDGE OF PAVEMENT OR EXISTING CURB EMENT TO BE REMOVED ABUTS EXISTING PAVEMENT OR CONCRETE TO	NEIL A. HANSEN
ONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE CONDITIONS OF ALL OF	NO. 15227 G
IN AND PAY FOR ADDITIONAL PERMITS, NOTICES AND FEES NECESSARY TO ANGE FOR AND PAY FOR NECESSARY INSPECTIONS AND APPROVALS FROM ISDICTION.	9/27/2023
SPONSIBLE FOR ALL DEMOLITION AND OFF-SITE DISPOSAL OF MATERIALS ORK, EXCEPT FOR WORK NOTED TO BE COMPLETED BY OTHERS AND AS	NININININININININININININININININININI
ED AT THE MAIN LINE PER UTILITY COMPANY AND THE CITY OF PORTSMOUTH R SHALL REMOVE ALL ABANDONED UTILITIES LOCATED WITHIN THE LIMITS	PATRICK CRIMMINS No. 12378
IGIN OF ALL DRAINS AND UTILITIES PRIOR TO REMOVAL/TERMINATION TO ITY IS ACTIVE, AND SERVICES ANY ON OR OFF-SITE STRUCTURE TO REMAIN. Y ENGINEER IMMEDIATELY OF ANY SUCH UTILITY FOUND AND SHALL FIL PERMANENT SOLUTION IS IN PLACE. E SHOWN FOR CONTRACTOR'S CONVENIENCE. ADDITIONAL PAVEMENT PENDING ON THE CONTRACTOR'S OPERATION. CONTRACTOR TO VERIFY FULL	9/27/2023
VE AND DISPOSE OF ALL EXISTING STRUCTURES, CONCRETE PADS, UTILITIES ORK LIMITS SHOWN UNLESS SPECIFICALLY IDENTIFIED TO REMAIN. ITEMS TO NOT LIMITED TO: CONCRETE, PAVEMENT, CURBS, LIGHTING, MANHOLES, D PIPING, POLES, STAIRS, SIGNS, FENCES, RAMPS, WALLS, BOLLARDS, , TREES AND LANDSCAPING. N THE PUBLIC RIGHT OF WAYS WITH THE CITY OF PORTSMOUTH AND PEASE	
REQUIRED FOR COMPLETION OF WORK. CONTRACTOR SHALL GRUB AND MITS OF WORK AND DISPOSE OF OFF SITE IN ACCORDANCE WITH FEDERAL, REGULATIONS.	
ALL PROPERTY MONUMENTATION THROUGHOUT DEMOLITION AND SHOULD ANY MONUMENTATION BE DISTURBED BY BY THE CONTRACTOR, THE NEW HAMPSHIRE LICENSED SURVEYOR TO REPLACE DISTURBED MONUMENTS. ARRIERS AT ALL CATCH BASINS/CURB INLETS WITHIN CONSTRUCTION LIMITS RB INLETS THAT MAY RECEIVE RUNOFF FROM CONSTRUCTION ACTIVITIES. SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT. INLET BE "HIGH FLOW SILT SACK" BY ACF ENVIRONMENTAL OR EQUAL. INSPECT EACH RAIN EVENT OF 0.25 INCHES OR GREATER. CONTRACTOR SHALL PECTION REPORT AFTER EACH INSPECTION. SEDIMENT DEPOSITS SHALL BE EVENT OR MORE OFTEN IF THE FABRIC BECOMES CLOGGED OR SEDIMENT HAS	SCALE IN FEET 0 40' 80'
IGN DEPTH OF THE BARRIER. E DEMOLITION AND CONSTRUCTION AS REQUIRED TO PROVIDE CONTINUOUS SES THROUGHOUT THE CONSTRUCTION PERIOD. EXISTING BUSINESS	UNAFHIC JUALE
OT LIMITED TO ELECTRICAL, COMMUNICATION, FIRE PROTECTION, DOMESTIC TEMPORARY SERVICES, IF REQUIRED, SHALL COMPLY WITH ALL FEDERAL, IPANY STANDARDS. CONTRACTOR SHALL PROVIDE DETAILED CONSTRUCTION	Proposed
O ANY DEMOLITION/CONSTRUCTION ACTIVITIES. SHALL BE INSTALLED PRIOR TO THE START OF ANY CLEARING OR	Industrial
LL COSTS NECESSARY FOR TEMPORARY PARTITIONING, BARRICADING, Y DEVICES REQUIRED FOR THE MAINTENANCE OF A CLEAN AND SAFE	Development
NT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL UTILITIES TO BE ITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN. IRE A PDA DIG PERMIT BEFORE ANY EARTH DISTURBANCE CAN TAKE PLACE. PROCESSING. N LIMIT OF WORK SHALL BE PROTECTED DURING CONSTRUCTION. IF ANY BE REMOVED OR ADJUSTED THIS WORK SHALL BE COORDINATED WITH THE	Lonza Biologics
TY. TE WITH THE PROJECT SURVEYOR FOR BENCHMARK AND CONTROL POINTS	
ROM THE CONSTRUCTION SHALL REMAIN ON SITE. COORDINATE WITH ENT AUTHORITY ON FINAL LOCATION OF EXCESS MATERIALS. ERFORMED, COORDINATION BETWEEN THE OWNER, CONTRACTOR, PDA, REQUIRED TO DETERMINE PROPER PROCEDURES AND PERMITTING REQUIRED. RARY DISCHARGE PERMIT IS REQUIRED.	Portsmouth, New Hampshire
T OF	
EMOVED NG	M 9/27/2023 P.B. Submission
DEWALK	L7/17/2023Amended Site Plan ReviewK5/5/2023Phase 1B Issued for Bid
	J 3/15/2023 Phase 1B Issued for Preliminary Pricing
	I1/9/2023Admin. Approval SubmissionH12/10/2021Planning Board Stipulation
ATE LIMIT ALK TO BE	G8/19/2019Admin. Approval SubmissionF11/6/2018P.B. Submission
	MARKDATEDESCRIPTIONPROJECT NO:L-0700-013
	DATE: 04/03/2018 FILE: L-0700-026-C-DSGN.dwg
	DRAWN BY: CJK CHECKED: NAH APPROVED: PMC
	DEMOLITION PLAN
	SCALE: AS SHOWN
	C-101







SITE DA LOCATIO	ATA N: TAX MAP 305, LOTS 1 & 2 70 & 80 CORPORATE DRIVE PORTSMOUTH, NH	TAX MAP 305, LOT 6 101 INTERNATIONAI PORTSMOUTH, NH	5 L DRIVE	PARKING REQUIRED 2 SPA
ZONING	DISTRICT: AIRPORT, BUSINESS	& COMMERCIAL (ABC)		990 E <u>1000</u>
DIMENS	SIONAL REQUIREMENTS:			
MINIMUM MINIMUM	1 LOT AREA: 1 STREET FRONTAGE:	<u>REQUIRED</u> 5 AC 200 FT	<u>PROVIDED</u> 43.4± AC 1,038 FT	EXIST PROP TOTAL:
MINIMUM SIDE SET REAR SET	1 FRONT YARD SETBACK: BACK IBACK	70 FT 30 FT 50 FT	70 FT 30 FT 51 FT	









PCB101 RIM=50.30 INV.OUT=45.70 W PCB102 RIM=51.20 INV.OUT=47.50 SW PCB103 RIM=54.00 INV.IN=49.80 NE INV.IN=49.00 NW INV.OUT=48.90 SE PCB302 PCB104 RIM=54.00 INV.OUT=49.80 SW PCB303 PCB105 RIM=57.00 INV.IN=50.95 NE INV.IN=50.95 NW INV.OUT=50.85 SE RIM=56.65 PCB106 RIM=57.00 INV.IN=51.15 NE RIM=55.65 PCB107 RIM=56.00 INV.IN=51.80 NE

PCB100

RIM=49.50

INV.IN=51.80 NW INV.IN=51.80 SW PCB307 INV.OUT=51.70 SE RIM=52.25 PCB108 RIM=56.00

PCB109 RIM=56.00

PCB110 RIM=49.40 INV.IN=44.50 W INV.OUT=44.40 E

PCB112 RIM=49.30 INV.IN=43.25 SW **INV.OUT=43.15 NE**

PCB113 RIM=42.85 INV.OUT=38.20 S

PCB204 RIM=66.75 INV.OUT=61.65 W PCB205

RIM=53.60 INV.IN=46.55 SW INV.OUT=46.45 NE

PCB206 RIM=53.60 INV.IN=43.95 NE INV.OUT=46.65 NE INV.IN=49.40 NW INV.IN=50.85 SE INV.IN=49.30 NE INV.OUT=43.85 SW PCB207 RIM=49.30 INV.OUT=43.35 NE PDMH105 PCB300 RIM=55.25 INV.OUT=51.50 SW INV.OUT=49.30 SE INV.IN=51.30 S PCB301 RIM=56.00 INV.IN=51.65 SE INV.IN=46.20 NW PDMH301 INV.OUT=51.55 NW INV.IN=46.30 SW RIM=60.25 RIM=56.00 INV.OUT=51.75 NW PDMH109 RIM=56.65 INV.IN=51.80 E INV.OUT=51.70 W PCB304 INV.OUT=51.90 W PCB305 INV.OUT=51.05 SW INV.OUT=51.65 E PCB306 RIM=53.50 INV.OUT=49.50 NE INV.IN=51.50 E INV.OUT=48.25 E PCB308 INV.OUT=51.95 SW RIM=50.60 INV.OUT=46.60 N PDMH100 INV.OUT=52.00 SE RIM=50.55 INV.IN=44.00 W INV.IN=43.20 NE INV.OUT=43.20 SE PDMH101

RIM=50.65 INV.IN=45.50 NW INV.IN=45.50 E INV.OUT=45.40 SW PDMH102 RIM=51.99 INV.IN=46.00 NW

INV.IN=47.00 NE INV.OUT=45.90 SE PDMH103

RIM=54.95 INV.IN=49.20 SW INV.OUT=46.95 SE INV.OUT=46.90 SE

PDMH104 RIM=56.55 RIM=55.38 INV.IN=47.00 NW RIM=56.00 PDMH106 RIM=54.55 RIM=61.50 INV.IN=51.25 NE INV.IN=50.65 W PDMH110 RIM=61.75 INV.IN=48.70 NE INV.IN=49.45 NW INV.OUT=54.65 NE INV.OUT=48.60 SE INV.OUT=49.35 SE PDMH111 RIM=53.94 INV.IN=50.05 NE INV.IN=53.70 SE INV.OUT=49.95 SW PDMH112 RIM=56.44

INV.IN=51.85 NW INV.OUT=49.65 SW PDMH113 RIM=63.00 INV.IN=52.95 SW INV.IN=46.30 NW INV.OUT=51.30 SE INV.OUT=46.20 NE PDMH114 RIM=53.80 INV.IN=46.50 NW INV.OUT=41.35 E INV.OUT=46.40 SE PDMH115 RIM=59.50 INV.IN=52.55 SW INV.IN=52.55 SE

INV.OUT=52.45 NE PDMH116 RIM=56.40 INV.IN=47.05 NW INV.IN=53.00 NE INV.IN=49.25 N INV.IN=47.00 NW INV.IN=51.10 NE

INV.IN=51.60 SW INV.IN=50.85 E INV.IN=50.00 NW INV.OUT=48.50 SE INV.IN=50.85 SW INV.OUT=49.20 SW INV.OUT=50.75 NW PDMH300 INV.IN=50.65 SW INV.IN=51.30 SE INV.IN=51.30 NE PYD103 INV.OUT=51.20 NW RIM=51.25

PDMH200

RIM=56.55

INV.IN=49.35 NE INV.IN=53.35 SW INV.OUT=46.10 SE INV.OUT=53.25 N

PDMH302 RIM=54.45 INV.IN=48.35 NW INV.IN=50.65 SW RIM=56.00 INV.OUT=48.25 SE INV.OUT=50.55 SE INV.OUT=51.05 SW

> PDMH303 RIM=53.60

PDMH304 RIM=55.00 INV.IN=48.65 NW INV.IN=48.65 SW INV.OUT=48.55 SE PDMH305

RIM=51.42 INV.IN=46.70 NW RIM=55.00 INV.IN=49.75 NE INV.IN=47.00 W INV.OUT=46.60 S PDMH306

> RIM=51.50 INV.IN=46.30 S POS101

RIM=47.00 POS200 RIM=56.50 INV.OUT=49.85 E

POS300 RIM=47.15 INV.OUT=42.42 E

PYD100 RIM=54.77 INV.IN=52.00 NW INV.IN=50.35 NE / INV.OUT=50.25 SW

 \bigvee

BEGIN

SILT

SOCK

PYD101 RIM=52.77 PYD102

RIM=55.50 INV.IN=47.70 NW INV.OUT=47.60 SE

INV.IN=45.65 NW INV.OUT=45.55 E

PYD104 RIM=59.00 INV.OUT=52.65 NE

PYD202 INV.IN=51.60 SE

PYD301 RIM=59.00 INV.IN=48.70 NW INV.IN=49.45 SW INV.IN=54.75 NW

> PYD302 RIM=59.00 INV.OUT=55.00 SE

PYD303 RIM=55.00 INV.OUT=51.75 SW

PYD304 INV.OUT=51.00 NE

CONST 7 LF 12" RCP-S=0.007 PCB204-

()/T



CONST 258 LF

59.50

PDMH115

58.00 –

12" HDPE-

S=0.005

CONST INLET

PROTECTION

BARRIER (TYP)

TC 67.25

BC 66.75



CONST 44 LF

12" HDPE

58.00 -

S=0.005





-64-

CONST 17 LF

12" HDPE-

S=0.006





BEGIN

SILT

SOCK

-69.0



	GRADING AND DRAINAGE NOTES:		Tiahe	& Bond
99% ODE SAULE BY OTHE MAXIMUM DRV DRV DRVIT AT THE OFTHUM MOSTURE OCHRED 2011 DE LANGE BROUT BY DRVIT AT THE OFTHUM MOSTURE OCHRED 2011 DE LANGE BROUT BY DRVIT HERMING AND LADGE AND CARD STEU JUTTU INFORMATION STEU JUTU INFORMATION INFORMATION INFORMATION AND THE INFORMATION AND CARD AND AND AND AND AND AND AND AND AND AN	AREAS 95%			
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HASHS, CURB BOKE, HC, WITHIN LIMITS OF WORK TO FINISH GADE. A PURSH PAYEMENT SUPRCE AND LAWN ARADA FREE OF LOW SPOTS AND LASING CURB DATA IL CATCHINASINS AND DARIN HIMS, WITHIN THE HIMT OF LASING CURB DATA IL CATCHINASINS AND DARIN HIMS, WITHIN THE HIMT OF LASING CURB DATA IL CATCHINASINS AND DARIN HIMS, WITHIN THE HIMT OF LASING CURB DATA IL CATCHINASINS AND DARIN HIMS, WITHIN THE HIMT OF LASING CURB DATA IL CATCHINASINS AND DARIN HIMS, WITHIN THE HIMT OF LASING CURB DATA IL CATCHINASINS AND DARIN HIMS, WITHIN THE HIMT OF LASING CURB DATA IL CATCHINASINS AND DARIN HIMS, WITHIN THE HIMT OF LASING CURB DATA IL CATCHINASINS AND DARIN HIMS, WITHIN THE HIMT OF LASING TO HARMAN HIMS THEATED SHALL BENERATION HOUSDAND WIS AND ARDORDS, LATTST FOTON. SHALL BE CONCECTS JUNCEYOR FOR DENCHMARK AND CONTING FOILTS IN THE LICENSE DAND SUBJECT OF DUBLY, WORKS, STANDARD OF BRAND AND HIMS DARING TO PUBLIC WORKS, STANDARD THE LICENSE DAND SUBJECT OF OF DUBLY, WORKS, STANDARD OF BRAND AND HIMS DARING THE PONDOST WIS AND ARDING HIMS THE AND CONTING HIMS IN THE FURTHER DISCUSSION THE PONDOST WIS AND ARDING AND PARENCES AND ALL BESTORED CATCHINES WAN BESTON TO BESTON WAS AND ARDING AND PARENCES OF AND READ HIMS THE DISCUSARY IS DUBLY DARIA AND CARDEN AND ESSEN WIS AND READ COLOR BENNING THE FONDERS IN ALLES WITHIN THE DUBLY DARIA AND ARD ARDING AND ARDING AND ARDING AND WIS AND ARD ARD ARD ARD ARD ARD ARD ARD ARD AR	S 90% ON SHALL BE OF THE MAXIMUM DRY DEN D CONTROLLED IN ACCORDANCE WITH AS DE IN ACCORDANCE WITH ASTM D-1556 C GHALL BE HIGH DENSITY POLYETHYLENE (THERWISE SPECIFIED. GITE UTILITY INFORMATION.	SITY AT THE OPTIMUM MOISTURE STM D-1557, METHOD C FIELD OR ASTM-2922. HANCOR HI-Q, ADS N-12 OR		
HAY CLEMAN ALL CATCHASTRIA AND DRAIN LIRES, WITHIN THE LINIT OF HEY UPON COMPLETION OF CONSTRUCTION. HEY UPON COMPLETION OF CONSTRUCTION. HEY UPON COMPLEXICUTION STATE AND ICALL RECEIVE OF LOAM, SEED TION SHALL BE IN ACCORDANCE WITH HE INDOT STANDARD SHALE BE EQUIPPED WITH OLIGIAS SEMARATOR HOODS AND A'SUMPS. JUT FLAIS. INDUST. LOWART, LOWARD, SPETTISS, ON DISK TO THE SHALE BE EQUIPPED WITH OLIGIAS SEMARATOR HOODS AND A'SUMPS. JUT FLAIS. INDUST. LOWART, LOWARD, SPETTISS, ON DISK TO THE JUT FLAIS. INDUST. JUT FLAIS.	HBASINS, CURB BOXES, ETC. WITHIN LIM A FINISH PAVEMENT SURFACE AND LAWI EAS INCLUDE BUILDING ENTRANCES, EX DING.	IITS OF WORK TO FINISH GRADE. N AREAS FREE OF LOW SPOTS AND ITS, RAMPS AND LOADING DOCK		
DIB PAVED OR OTHERWIST TREATED SHALL RECEIVE 6' LOAM, SEED TON SHALL BE IN ACCORDANCE WITH THE NUMBOT STANDARD SHALL BE COURPED WITH OLVARS SERAATOR HOODS AND 4' SUMPS. INTE PLANS IN DECIDING PAVELING TO USARD 9, PENENSION DO USA TO THE CONTREL FOLLOWER DECIDING TO BE RECEIVED AND CONTROL POINTS DT HE COURSE INCOMENT. OR OF PUBLIC WOrkS, STANDARD RE CLEASED LOAD PENENSINE TO FUNCTION. THE VITH THE PROJECT SURVEYOR FOR BENCHMARK AND CONTROL POINTS DT HE CITU OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS, STANDARD RE CLEASED LOAD THE PROJECT SURVEYOR FOR BENCHMARK AND CONTROL POINTS DT HE CITU OF PORTSMOUTH DEPARTMENT OF FUNCTION. THE CLEASED LOAD THE PROJECT SURVEYOR FOR DENDERTATION. PEOL AND BRUGGE CONSTITUCTION'. CURRENT EDITION. PEOL AND BRUGGE STAND WHO PROPOSITION OF 0.25 INCI DE RUT DITENTION AS INCISSION OF AND MYRD COST AND AND SULT THE CLEASED AND MENDALIZE PEOL AND THE PROJECT LINTIL PAVEMENT HAS BEEN INSTALLED. UTTO THE AND ALL STAND WIND CROSSION THROUGH OF 0.25 INCI DE RUT DISTUTEMARKE CONTINUE CONSTITUCTION MOL STANDARD AND ALL STOMMENT AND BUST TREATES CAN AND AND STANDARD AND ALL STOMMENT AND DISTUTEMARKE CONSTRUCTION AND STALL RECEIVE 9' LOAM, SEED, NALL SCALES STALL THE DESCION AND STALL BECOMENT AND STATE TO CONTINUE DOLOR LERRING TO AND MITCHATTON AND DISTURBARKE CONSTRUCTION AND STALL RECEIVE 9' LOAM, SEED, NALL BE STANDARD AND ALL STANDARD TO REMOVE ALL STOMMENT AND STATE TO CONTINUE AND STAND AND CROSSION THROUGH ALL STOMMENT AND AND ALL SCALES STALL THE DISTON THE THE TO STRUCT THAND. NATHING AND ALL RECEIVE BI OTT. RUNDARD BE SAMILING UNCLES AND THE AND ALL STOMMENT AND STATE TO AND AND ALL STANDE TO REMOVE ALL STOMMENT AND STATE TO CONTINUE AND THE ALL PROCESSION THROUGH ALL STOMMENT AND STATE TO AND AND STOCHES TO ALL PROFESSION CONTROL PROPOSED STALL THE ALL PR	GHLY CLEAN ALL CATCHBASINS AND DRAD ATELY UPON COMPLETION OF CONSTRUCT JCTION SHALL CONFORM WITH APPLICABL	IN LINES, WITHIN THE LIMIT OF TON. LE FEDERAL, STATE AND LOCAL		
TON SHALL BE IN ACCORDANCE WITH THE MIDD'STANDARD SMAD BE DEQUIPED WITH OULCAS SEPARATOR MODES AND 4'SUMS. SHALL BE EQUIPED WITH OULCAS SEPARATOR MODES AND 4'SUMS. SHALL BE EQUIPED WITH OULCAS SEPARATOR MODES AND 4'SUMS. SHALL BE EQUIPED WITH OULCAS SEPARATOR MODES AND 4'SUMS. STATE WITH THE PROJECT SUBJECT AS BUILTS SHALL BE PREMARD AND RE UNITH THE PROJECT SUBJECT OR SUBJECT PROBABILIST ON THE RECOMPLETION OF THE PROJECT SUBJECT OR OF THE PROJECT ON OTHER PROVIDED AND MICH SEPARATION THE PROPERTY MICH SECARDS STATE WITH THE PROJECT SUBJECT PROBABILIST ON THE PROPERTY AND SUBJECT PROFESSION AND STRET CREEK OF WALK. SOLUMENTS BUILT SHALL RECEIVE O' LOAM, SEED, AN ALL SUPES STEEPER THAT BE TRET CREEK OF WALK. SOLUMENTS SUBJECT ON THE RECOMPORATION OF 0.25 INFO MORE STATE FUER MALE DATE. STATE FUER MALE DATE TREATED SHALL RECEIVE O' LOAM, SEED, NO SULF PROFESSION AND STRET CREEK OF WALK. SOLUMENTS SUBJECT ON THE SUBJECT PROPERTY, INCLUDING CAT SHALL ALL CRESSION AND STRET CREEK OF WALK. SOLUMENTS ON THE PROFESSION AND SULFATION AND SULF PROFESSION AND SULF TREATED SHALL RECEIVE O' LOAM, SEED, NO SULF PROFESSION SOLUMENT AND ATTER FACH RAIN STRAM DE 0.5 STRING, ING SOLUMENTS AS ACCESSARY TO MAXIMZE (FFICIENCY OF FLIER, REPACE ALL 3' THE FLIER HOLT. STREMARK SHALL INSTALL ALL CRESSION AND SULFATION MITIGATION AND SULF PROFESSION AND SULF TREATED SHALL RECEIVE O' LOAM, SEED, NO SULF PROFESSION AND SULF TREATED SHALL RECEIVE O' LOAM, SEED, NO SULF PROFESSION AND SULF TREATED SHALL RECEIVE O' LOAM, SEED, NO SULF PROFESSION AND SULF TREATED SHALL RECEIVE O' LOAM, SEED, NO SULF PROFESSION AND SULF TREATED SHALL RECEIVE O' LOAM, SEED, NO SULF CRUESSION AND SULF TREATED SHALL RECEIVE O' LOAM, SEED, NO SULF CRUESSION AND SULF TREATED SHALL RECEIVE O' LOAM, SEED, NO SULF CRUESSION AND SULF TREATED SHALL RECEIVE O' LOAM, SEED, NO SULF CRUESSION AND SULF TREATED SHALL RECEIVE O' CONTORLITIES NO SULF CRUESSION AND SULF TREATED SHALL RECEIVE O' CONTORLITIES SHALL RE FURDADURING TO SHALL RE STA	O BE PAVED OR OTHERWISE TREATED SH	ALL RECEIVE 6" LOAM, SEED	NINITION OF M	NIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
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Save Date: November 9, 2023 11:03 AM By: NAHANSEN Date: Thursday, November 09, 2023 Plotted By: Neil A. Hansen

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	UTILITY NOTES: UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATIONS ARE INER OR ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ONFLICTS, REPAIR EXISTING UTILITIES, AND RELOCATE EXISTING UTILITIES WORK AT NO ADDITIONAL COST TO THE OWNER. RK WITH APPROPRIATE UTILITY COMPANY.	Tighe&Bond
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bate: Thursday, Novembr 092, 2023 Plotted by: Neil A. Hansen 15 Ela Location: 1-11 N 0700 Lonza Biologics Expansion was 1576EN026. Project: Albacore/Drawings/AuthoCADN -0700-076-C-DS

Save Date: November 9, 2023 11:03 AM By: N

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LANDSCAPE NOTES:

LANDSCAPE NOTES ON THIS PLAN APPLY ONLY TO THOSE PLANTINGS OUTSIDE OF THE HODGSON BROOK RESTORATION AREA.

2. THE CONTRACTOR SHALL FURNISH AND PLANT ALL PLANTS IN QUANTITIES AS SHOWN ON THIS PLAN. NO SUBSTITUTIONS WILL BE

NURSERYMEN STANDARDS, INCLUDING BUT NOT LIMITED TO SIZE, HEALTH, SHAPE, ETC., AND SHALL BE SUBJECT TO THE APPROVAL

MISCELLANEOUS PUBLICATIONS NO. 814, AGRICULTURAL RESEARCH SERVICE, UNITED STATES DEPARTMENT AGRICULTURE, LATEST

5. PLANT MATERIAL SHALL BARE THE SAME RELATIONSHIP TO FINISHED GRADE AS TO THE ORIGINAL PLANTING GRADE PRIOR TO

6. THE NUMBER OF EACH INDIVIDUAL PLANT TYPE AND SIZE PROVIDED IN THE PLANT LIST OR ON THE PLAN IS FOR THE CONTRACTOR'S CONVENIENCE ONLY. IF A DISCREPANCY EXISTS BETWEEN THE NUMBER OF PLANTS ON THE LABEL AND THE NUMBER OF SYMBOLS

8. THE CONTRACTOR SHALL LOCATE, VERIFY AND MARK ALL EXISTING AND NEWLY INSTALLED UNDERGROUND UTILITIES PRIOR TO ANY LAWN WORK OR PLANTING. ANY CONFLICTS WHICH MIGHT OCCUR BETWEEN PLANTING AND UTILITIES SHALL IMMEDIATELY BE

MULCH IS TO BE USED IN A CURBED ISLAND THE BARK MULCH SHALL MEET THE TOP INSIDE EDGE OF THE CURB. ALL OTHER AREAS

11. LANDSCAPING SHALL BE LOCATED WITHIN 150 FT OF EXTERIOR HOSE ATTACHMENT OR SHALL BE PROVIDED WITH AN IRRIGATION

15. PARKING AREA PLANTED ISLANDS TO HAVE MINIMUM OF 1'-0" TOPSOIL PLACED TO WITHIN 3 INCHES OF THE TOP OF CURB ELEVATION

16. TREES SHALL BE PRUNED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI A300 'TREES, SHRUBS AND OTHER WOOD PLANT

17. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24 HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL BE WATERED WEEKLY, OR MORE OFTEN, IF NECESSARY DURING THE FIRST GROWING SEASON. LANDSCAPE CONTRACTOR SHALL

REMAIN ARE TO BE PROTECTED WITH A 4-FOOT SNOW FENCE PLACED AT THE DRIP LINE OF THE BRANCHES OR AT 8 FEET MINIMUM FROM THE TREE TRUNK. ANY EXISTING TREE OR SHRUB SHOWN TO REMAIN, WHICH IS REMOVED DURING CONSTRUCTION, SHALL BE

19. THE CONTRACTOR SHALL GUARANTEE ALL PLANTINGS TO BE IN GOOD HEALTHY, FLOURISHING AND ACCEPTABLE CONDITION FOR A PERIOD OF (1) YEAR BEGINNING AT THE DATE OF ACCEPTANCE OF SUBSTANTIAL COMPLETION. ALL GRASSES, TREES AND SHRUBS THAT, IN THE OPINION OF THE LANDSCAPE ARCHITECT, SHOW LESS THAN 80% HEALTHY GROWTH AT THE END OF ONE YEAR PERIOD

20. UPON EXPIRATION OF THE CONTRACTOR'S ONE YEAR GUARANTEE PERIOD, THE OWNER SHALL BE RESPONSIBLE FOR LANDSCAPE

CONSTRUCTION. THIS PROTECTION SHALL BEGIN AT THE TIME THE PLANT IS INSTALLED AND CONTINUE UNTIL THE FORMAL

22. PRE-PURCHASE PLANT MATERIAL AND ARRANGE FOR DELIVERY TO MEET PROJECT SCHEDULE AS REQUIRED IT MAY BE NECESSARY TO

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D DMH #1421

MATCH LINE SHEET 1 MATCH LINE SHEET 2

SEE SHEET C-116 FOR PLANT SCHEDULE

ive Date: November 9, 2023 11:03 AM By: NAHANSE te: Thursday, November 09, 2023 Plotted By: Neil A.

Save Date: November 9, 2023 11:03 AM By: NAHANSEN Date: Thursday, November 09, 2023 Plotted By: Neil A. Hansen

	1	2	T	ighe	& Bonc
				11/9/23	ATRICK RIMMINS o. 12378
				HILL CE PROPERTY	NEW HAMO NEIL A. HANSEN No. 15227 CENSED ONAL ENGINITION ONAL ENGINITION ONAL ENGINITION ONAL ENGINITION
_DCB #1542				SC 0 GR/	ALE IN FEET 40' 80'
(B) SMH #1551 S(A) S			Pr In De	opos dus evelo	sed trial opment
			Lo	nza	Biologics
NT SCHEDULE					
	SIZE	REMARKS			
			Рог	rtsmou	ith,
INCETON AMERICAN ELM	2 ¹ / ₂ - 3" CALIPER	В&В	Ne	w Harr	pshire
N OAK	$2\frac{1}{2} - 3$ " CALIPER	B & B			
	$2\frac{1}{2}$ - 3" CALIPER	B & B			
	$2\frac{1}{2}$ - 3 CALIPER	B & B			
ANTICLEER PEAR	2 - $2\frac{1}{2}$ " CALIPER	B & B			
TUMN BRILLIANCE SERVICEBERRY	2 - $2\frac{1}{2}$ " CALIPER	B & B (SINGLE STEM)			
RITAGE RIVER BIRCH	12 - 14' HT.	B & B (MULTISTEM)	N	11/9/2023	Revised P.B. Submission
HITE SPRUCE	8 - 10' HT.	В&В	L	9/2//2023	Issued for Construction
LORADO SPRUCE	8 - 10' HT.	B & B	К	5/27/2022	Issued for Bid
			I	4/26/2022	Revised PB Stipulations
THEROD VIBURNUM	2 ¹ / ₂ - 3' HT.	B & B	MARK	DATE	DESCRIPTION
GLISH ROSEUM RHODODENDRON	2 ¹ / ₂ - 3' HT.	B & B	PROJEC DATE:	LT NO:	L-0700-013 04/03/2018
	7 GALLON	CONTAINER	FILE:	L-0700-026-C	-DSGN.dwg
UW QUEEN UAKLEAF HYDRANGEA	∠ <u>₹</u> - 3' HI.	ВЯВ	CHECK	ED:	NAH
ELLA DORO DAYLILY	2 GALLON	CONTAINER	APPRO	veu:	РМС
YAL STANDARD HOSTA	2 GALLON	CONTAINER		LANDS	SCAPE PLAN
SIONS IN PINK ASTILBE	2 GALLON	CONTAINER			
RL FOERSTER FEATHER REED GRASS	3 GALLON	CONTAINER	SCAL	E:	AS SHOWN
				С	-116

Luminaire Sche	Luminaire Schedule					
Symbol	Qty	Label	Arrangement	Description		
Ð	6	S3	Single	MRM-LED-09L-SIL-3-UNV-DIM-30-70Cl / 4SQ B3 S11G 20 S GA 4BC (20' AH		
Ð	7	S4	Single	MRM-LED-09L-SIL-FT-UNV-DIM-30-700 / 4SQ-B3-S11G-20-S-GA-4BC (20' AH		
Ð	5	S5-1	Single	MRM-LED-09L-SIL-5W-UNV-DIM-30-700 / 4SQ B3 S11G 20 S GA 4BC (20' AH		
	7	WЗ	Single	XWM-3-LED-12L-30-UE-CXX / WALL M AFG		
	22	W4	Single	XWM-FT-LED-12L-30-UE-CXX / WALL MAFG		

RI-CXX

2	Tighe&Bond
(MANUFAC] LSI INDUSTRIES, INC. LSI INDUSTRIES, INC. LSI INDUSTRIES, INC. LSI INDUSTRIES, INC.	NEW HAABON HANSEN No. 15227 9/27/2023
INC. LSI INDUSTRIES, INC. INDUSTRIES, INC.	
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	New Hampshire
	M9/27/2023P.B. SubmissionL7/17/2023Amended Site Plan ReviewK5/5/2023Phase 1B Issued for BidJ3/15/2023Phase 1B Issued for Preliminary PricingI1/9/2023Admin. Approval SubmissionH12/10/2021Planning Board StipulationG8/19/2019Admin. Approval SubmissionF11/6/2018P.B. SubmissionMARKDATEDESCRIPTIONPROJECT NO:L-0700-013
	DATE: 04/03/2018 FILE: L-0700-026-C-DSGN.dwg DRAWN BY: CJK CHECKED: NAH APPROVED: PMC
-0	PHOTOMETRIC LIGHTING PLAN SCALE: AS SHOWN C-117

	2	Tighe&Bond
INE SHEET 1 INE SHEET 2		Image: New Hansen New Ha
		SCALE IN FEET 40' 80' GRAPHIC SCALE Proposed Industrial Development Lonza Biologics
$\sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i$		Portsmouth, New Hampshire M 9/27/2023 P.B. Submission L 7/17/2023 Amended Site Plan Review K 5/5/2023
ment Description	[MANUFAC]	J3/15/2023Phase 1B Issued for Preliminary PricingI1/9/2023Admin. Approval SubmissionH12/10/2021Planning Board StipulationG8/19/2019Admin. Approval SubmissionF11/6/2018P.B. SubmissionMARKDATEDESCRIPTIONPROJECT NO:L-0700-013DATE:04/03/2018FILE:L-0700-026-C-DSGN.dwgDRAWN BY:CJK
MRM-LED-09L-SIL-3-UNV-DIM-30-70CRI-CXX / 4SQ B3 S11G 20 S GA 4BC (20' AFG) MRM-LED-09L-SIL-FT-UNV-DIM-30-70CRI-CXX / 4SQ-B3-S11G-20-S-GA-4BC (20' AFG) MRM-LED-09L-SIL-5W-UNV-DIM-30-70CRI-CXX / 4SQ B3 S11G 20 S GA 4BC (20' AFG) XWM-3-LED-12L-30-UE-CXX / WALL MTD 20' AFG	LSI INDUSTRIES, INC. LSI INDUSTRIES, INC. LSI INDUSTRIES, INC. LSI INDUSTRIES, INC.	CHECKED: NAH APPROVED: PMC PHOTOMETRIC LIGHTING PLAN SCALE: AS SHOWN
XWM-FT-LED-12L-30-UE-CXX / WALL MTD 20' AFG	LSI INDUSTRIES, INC.	C-118

	2	Tighe&Bond
		New Hansen Hansen Borden Berger Borden Be
		GRAPHIC SCALE GRAPHIC SCALE
		Lonza Biologics
		Portsmouth, New Hampshire
		M9/27/2023P.B. SubmissionL7/17/2023Amended Site Plan ReviewK5/5/2023Phase 1B Issued for BidJ3/15/2023Phase 1B Issued for Preliminary PricingI1/9/2023Admin. Approval SubmissionH12/10/2021Planning Board StipulationG8/19/2019Admin. Approval SubmissionF11/6/2018P.B. SubmissionMARKDATEDESCRIPTIONPROJECT NO:L-0700-013DATE:04/03/2018FILE:L-0700-026-C-DSGN.dwg
on 9L-SIL-3-UNV-DIM-30-70CRI-CXX S11G 20 S GA 4RC (201 AFC)	[MANUFAC] LSI INDUSTRIES.	DRAWN BY: CJK CHECKED: NAH
9L-SIL-FT-UNV-DIM-30-70CRI-CXX S11G-20-S-GA-4BC (20' AFG)	INC. LSI INDUSTRIES,	APPROVED: PMC
9L-SIL-5W-UNV-DIM-30-70CRI-CXX S11G 20 S GA 4BC (20' AFG)	INC. LSI INDUSTRIES,	PHOTOMETRIC LIGHTING PLAN
D-12L-30-UE-CXX / WALL MTD 20'	LSI INDUSTRIES, INC.	SCALE: AS SHOWN
D-12L-30-UE-CXX / WALL MTD 20'	LSI INDUSTRIES, INC.	
	J	

.gement	Description	[MANUFAC]
e	MRM-LED-09L-SIL-3-UNV-DIM-30-70CRI-CXX	LSI
	/ 4SQ B3 S11G 20 S GA 4BC (20' AFG)	INDUSTRIES,
		INC.
e	MRM-LED-09L-SIL-FT-UNV-DIM-30-70CRI-CXX	LSI
	/ 4SQ-B3-S11G-20-S-GA-4BC (20' AFG)	INDUSTRIES,
		INC.
e	MRM-LED-09L-SIL-5W-UNV-DIM-30-70CRI-CXX	LSI
	/ 4SQ B3 S11G 20 S GA 4BC (20' AFG)	INDUSTRIES,
		INC.
e	XWM-3-LED-12L-30-UE-CXX / WALL MTD 20'	LSI
	AFG	INDUSTRIES,
		INC.
e	XWM-FT-LED-12L-30-UE-CXX / WALL MTD 20'	LSI
	AFG	INDUSTRIES,
		INC.

4:27 PM By: 2023 Plotted I

PHASE 2 PLAN SET APRIL 3, 2018 REVISED: NOVEMBER 9, 2023

LIST OF DRAWINGS			
SHEET NO.	SHEET TITLE	LAST REVISED	
	PHASE 2 PLAN SET COVER SHEET	11/9/2023	
C-161	PHASE 2 DEMOLITION PLAN	9/27/2023	
C-162	PHASE 2 DEMOLITION PLAN	11/9/2023	
C-163	PHASE 2 DEMOLITION PLAN	11/9/2023	
C-163.1	PHASE 2 PRE-CONSTRUCTION LAYOUT PLAN	11/9/2023	
C-164	PHASE 2 OVERALL SITE PLAN	11/9/2023	
C-165	PHASE 2 SITE PLAN	11/9/2023	
C-166	PHASE 2 SITE PLAN	11/9/2023	
C-167	PHASE 2 SITE PLAN	11/9/2023	
C-168	PHASE 2 GRADING, DRAINAGE & EROSION CONTROL PLAN	11/9/2023	
C-169	PHASE 2 GRADING, DRAINAGE & EROSION CONTROL PLAN	11/9/2023	
C-170	PHASE 2 GRADING, DRAINAGE & EROSION CONTROL PLAN	11/9/2023	
C-171	PHASE 2 UTILITIES PLAN	11/9/2023	
C-172	PHASE 2 UTILITIES PLAN	11/9/2023	
C-173	PHASE 2 UTILITIES PLAN	11/9/2023	
C-174	PHASE 2 LANDSCAPE PLAN	11/9/2023	
C-175	PHASE 2 LANDSCAPE PLAN	11/9/2023	
C-176	PHASE 2 LANDSCAPE PLAN	11/9/2023	
C-177	PHASE 2 PHOTOMETRIC LIGHTING PLAN	11/9/2023	
C-178	PHASE 2 PHOTOMETRIC LIGHTING PLAN	11/9/2023	
C-179	PHASE 2 PHOTOMETRIC LIGHTING PLAN	9/27/2023	
8-046-1-1110	FIRST FLOOR PLAN - CUB	8/24/2023	
8-046-1-2002	BUILDING ELEVATIONS (E-W) - CUB	8/24/2023	
8-046-1-2003	BUILDING ELEVATIONS (N-S) - CUB	9/18/2023	
8-070-1-1110	FIRST FLOOR PLAN - BL1	8/24/2023	
8-070-1-2001	OVERALL BUILDINGS ELEVATIONS	7/12/2023	
8-070-1-2002	BUILDING ELEVATIONS (E-W) - BL1	8/24/2023	
8-070-1-2003	BUILDING ELEVATIONS (N-S) - BL1	8/24/2023	

COMPLETE SET 28 SHEETS

DEMOLITION NOTES: UND UTILITIES ARE APPROXIMATE AND THE LOCATIONS ARE NOT R THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL	Tighe&Bond	
CTS, REPAIR EXISTING UTILITIES AND RELOCATE EXISTING UTILITIES ORK. Y LOCATION OF ALL EXISTING UTILITIES. CALL DIG SAFE AT LEAST 72 HOURS OF ANY DEMOLITION/CONSTRUCTION ACTIVITIES. BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS ONTRACTOR SHALL DISPOSE OF ALL MATERIALS OFF-SITE IN ACCORDANCE D LOCAL REGULATIONS, ORDINANCES AND CODES EXCEPT AS SPECIFIED IN		
ATION, DISPOSAL OR SALVAGE OF UTILITIES WITH THE OWNER AND		
T. ERTY DAMAGED OR DISRUPTED BY CONSTRUCTION/ DEMOLITION ACTIVITIES LED TO MATCH ORIGINAL EXISTING CONDITIONS BY THE CONTRACTOR AT NO NER.	NUMBER OF NEW HAMA	
NT ONE (1) FOOT OFF PROPOSED EDGE OF PAVEMENT OR EXISTING CURB EMENT TO BE REMOVED ABUTS EXISTING PAVEMENT OR CONCRETE TO	NEIL A. HANSEN	
ONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE CONDITIONS OF ALL OF	No. 15227	
IN AND PAY FOR ADDITIONAL PERMITS, NOTICES AND FEES NECESSARY TO ANGE FOR AND PAY FOR NECESSARY INSPECTIONS AND APPROVALS FROM ISDICTION.	9/27/2023	
SPONSIBLE FOR ALL DEMOLITION AND OFF-SITE DISPOSAL OF MATERIALS ORK, EXCEPT FOR WORK NOTED TO BE COMPLETED BY OTHERS AND AS	NINTHING NEW HAMPO	
ED AT THE MAIN LINE PER UTILITY COMPANY AND THE CITY OF PORTSMOUTH R SHALL REMOVE ALL ABANDONED UTILITIES LOCATED WITHIN THE LIMITS	PATRICK PATRICK CRIMMINS No. 12378	
IGIN OF ALL DRAINS AND UTILITIES PRIOR TO REMOVAL/TERMINATION TO ITY IS ACTIVE, AND SERVICES ANY ON OR OFF-SITE STRUCTURE TO REMAIN. Y ENGINEER IMMEDIATELY OF ANY SUCH UTILITY FOUND AND SHALL TIL PERMANENT SOLUTION IS IN PLACE. E SHOWN FOR CONTRACTOR'S CONVENIENCE. ADDITIONAL PAVEMENT PENDING ON THE CONTRACTOR'S OPERATION. CONTRACTOR TO VERIFY FULL PRIOR TO BID. VE AND DISPOSE OF ALL EXISTING STRUCTURES, CONCRETE PADS, UTILITIES ORK LIMITS SHOWN UNLESS SPECIFICALLY IDENTIFIED TO REMAIN. ITEMS TO NOT LIMITED TO: CONCRETE, PAVEMENT, CURBS, LIGHTING, MANHOLES, D PIPING, POLES, STAIRS, SIGNS, FENCES, RAMPS, WALLS, BOLLARDS, , TREES AND LANDSCAPING. N THE PUBLIC RIGHT OF WAYS WITH THE CITY OF PORTSMOUTH AND PEASE	9/27/2023////////////////////////////////	
REQUIRED FOR COMPLETION OF WORK. CONTRACTOR SHALL GRUB AND MITS OF WORK AND DISPOSE OF OFF SITE IN ACCORDANCE WITH FEDERAL, REGULATIONS. ALL PROPERTY MONUMENTATION THROUGHOUT DEMOLITION AND SHOULD ANY MONUMENTATION BE DISTURBED BY BY THE CONTRACTOR, THE NEW HAMPSHIRE LICENSED SURVEYOR TO REPLACE DISTURBED MONUMENTS. ARRIERS AT ALL CATCH BASINS/CURB INLETS WITHIN CONSTRUCTION LIMITS RB INLETS THAT MAY RECEIVE RUNOFF FROM CONSTRUCTION ACTIVITIES. SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT. INLET 3E "HIGH FLOW SILT SACK" BY ACF ENVIRONMENTAL OR EQUAL. INSPECT EACH RAIN EVENT OF 0.25 INCHES OR GREATER. CONTRACTOR SHALL PECTION REPORT AFTER EACH INSPECTION. SEDIMENT DEPOSITS SHALL BE EVENT OR MORE OFTEN IF THE FABRIC BECOMES CLOGGED OR SEDIMENT HAS IGN DEPTH OF THE BARRIER. E DEMOLITION AND CONSTRUCTION AS REQUIRED TO PROVIDE CONTINUOUS	SCALE IN FEET 0 40' 80' GRAPHIC SCALE	
SES THROUGHOUT THE CONSTRUCTION PERIOD. EXISTING BUSINESS OT LIMITED TO ELECTRICAL, COMMUNICATION, FIRE PROTECTION, DOMESTIC TEMPORARY SERVICES, IF REQUIRED, SHALL COMPLY WITH ALL FEDERAL, 4PANY STANDARDS. CONTRACTOR SHALL PROVIDE DETAILED CONSTRUCTION O ANY DEMOLITION/CONSTRUCTION ACTIVITIES. SHALL BE INSTALLED PRIOR TO THE START OF ANY CLEARING OR	Proposed Industrial	
LL COSTS NECESSARY FOR TEMPORARY PARTITIONING, BARRICADING, Y DEVICES REQUIRED FOR THE MAINTENANCE OF A CLEAN AND SAFE	Development	
NT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL UTILITIES TO BE ITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN. IRE A PDA DIG PERMIT BEFORE ANY EARTH DISTURBANCE CAN TAKE PLACE. PROCESSING. N LIMIT OF WORK SHALL BE PROTECTED DURING CONSTRUCTION. IF ANY BE REMOVED OR ADJUSTED THIS WORK SHALL BE COORDINATED WITH THE TY.	Lonza Biologics	
ROM THE PROJECT SURVEYOR FOR BENCHMARK AND CONTROL POINTS ROM THE CONSTRUCTION SHALL REMAIN ON SITE. COORDINATE WITH ENT AUTHORITY ON FINAL LOCATION OF EXCESS MATERIALS. ERFORMED, COORDINATION BETWEEN THE OWNER, CONTRACTOR, PDA, REQUIRED TO DETERMINE PROPER PROCEDURES AND PERMITTING REQUIRED. RARY DISCHARGE PERMIT IS REQUIRED.	Portsmouth, New Hampshire	
IT OF EMOVED		
DEWALK	M 9/27/2023 P.B. Submission L 7/17/2023 Amended Site Plan Review	
ED	K 5/5/2023 Phase 1B Issued for Bid J 3/15/2023 Phase 1B Issued for	
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ATE LIMIT	H12/10/2021Planning Board StipulationG8/19/2019Admin. Approval Submission	
ALK TO BE	F11/6/2018P.B. SubmissionMARKDATEDESCRIPTION	
	PROJECT NO: L-0700-013 DATE: 04/03/2018	
	FILE: L-0700-026-C-DSGN.dwg DRAWN BY: CJK CHECKED	
_	CHECKED: NAH APPROVED: PMC	
EET 1	PHASE 2 DEMOLITION PLAN	
	SCALE: AS SHOWN	
	C-161	



SITE DATA LOCATION: TAX MAP 305, LOTS 1 & 2 70 & 80 CORPORATE DRIVE PORTSMOUTH, NH	TAX MAP 305, LOT 6 101 INTERNATIONAL PORTSMOUTH, NH	DRIVE	PARKING REQUIRE REQUIRED PARKING 2 SPACES PER 3
ZONING DISTRICT: AIRPORT, BUSINESS & DIMENSIONAL REQUIREMENTS:	COMMERCIAL (ABC)		990 EXISTING E <u>180 ANTICIPATE</u> TOTAL REQUIRE
MINIMUM LOT AREA: MINIMUM STREET FRONTAGE:	<u>REQUIRED</u> 5 AC 200 FT	PROVIDED 43.4± AC 1,038 FT	PARKING PROVIDED EXISTING SPACE PROPOSED SURE TOTAL:
MINIMUM FRONT YARD SETBACK: SIDE SETBACK REAR SETBACK	70 FT 30 FT 50 FT	70 FT 30 FT 51 FT	
MINIMUM OPEN SPACE	25 %	59.9± %	





LEGEND

MATCH LINE PROPOSED PROPERTY LINE PROPOSED SETBACK LINE PROPOSED LIMIT OF WORK PROPOSED GRANITE CURB

PROPOSED PAVEMENT SECTION

PROPOSED GRAVEL SECTION

PROPOSED CONCRETE

CONSTRUCT BUILDING TYPICAL COORDINATE PROPOSED CURB RADIUS VERTICAL GRANITE CURB SLOPED GRANITE CURB RIGHT OF WAY DOUBLE SOLID YELLOW LINE SINGLE SOLID WHITE LINE

BEGIN VGC (MEET/MATCH EXISTING) CONST TIP DOWN RAMP CONST R1-1 "STOP SIGN' AND STOP BAR - CONST TIP DOWN RAMP BEGIN VGC (MEET/MATCH EXISTING) MATCH LINE SHEET 1 MATCH LINE SHEET 2





Save Date: November 9, 2023 11:03 AM By: NAHANSEN Date: Thursday, November 09, 2023 Plotted By: Neil A. Hansen File Location: J:\L\L0700 Lonza Biologics Expansion was 1576F\026 Project Albacore\Drawings\AutoCAD\L-0700-026-C-DSGN.dwg





GRADING AND DRAINAGE NOTE	<u>S:</u>	Tiahe&Bond
AREAS 95%		
95%		
ION SHALL BE OF THE MAXIMUM DRY D D CONTROLLED IN ACCORDANCE WITH DE IN ACCORDANCE WITH ASTM D-155 SHALL BE HIGH DENSITY POLYETHYLEN THERWISE SPECIFIED. SITE UTILITY INFORMATION. CHBASINS, CURB BOXES, ETC. WITHIN	DENSITY AT THE OPTIMUM MOISTURE ASTM D-1557, METHOD C FIELD 6 OR ASTM-2922. IE (HANCOR HI-Q, ADS N-12 OR LIMITS OF WORK TO FINISH GRADE.	
REAS INCLUDE BUILDING ENTRANCES, LDING.	EXITS, RAMPS AND LOADING DOCK	
ATELY UPON COMPLETION OF CONSTRU JCTION SHALL CONFORM WITH APPLIC	ABLE FEDERAL, STATE AND LOCAL	
O BE PAVED OR OTHERWISE TREATED	SHALL RECEIVE 6" LOAM, SEED	NEW HAMPS
TION SHALL BE IN ACCORDANCE WITH AYS AND BRIDGES, LATEST EDITION. SHALL BE EQUIPPED WITH OIL/GAS SI BUILT PLANS IN DIGITAL FORMAT (.DW COMPLETION OF THE PROJECT. AS-BUI IRE LICENSED LAND SURVEYOR.	THE NHOOT STANDARD EPARATOR HOODS AND 4' SUMPS. /G AND .PDF FILES) ON DISK TO THE ILTS SHALL BE PREPARED AND OR BENCHMARK AND CONTROL POINTS	PATRICK CRIMMINS No. 12378 CENSED TOWAL ENGINEERING
O THE CITY OF PORTSMOUTH DEPARTM THE STATE OF NEW HAMPSHIRE DEPAR OF ROAD AND BRIDGE CONSTRUCTION E PDA, GROUNDWATER DISCHARGE FR IN OF BUILDING 1 AND THE CENTRAL U ORAINAGE SYSTEM. IF TREATMENT OF D DURING THE BUILDING PERMITTING ILTRATION SYSTEM WILL BE NEEDED. EROSION CONTROL NOTES:	TENT OF PUBLIC WORKS, STANDARD TMENT OF TRANSPORTATION, I", CURRENT EDITION. OM THE PROPOSED FOUNDATION JTILITY BUILDING WILL BE THE GROUNDWATER DISCHARGE IS PROCESS AND RE-INFILTRATION IS	NEIL A. HANSEN No. 15227 CENSED ONAL ENOTHING
ARRIERS AS SHOWN AS FIRST ORDER ROL NOTES ON DETAIL SHEETS. AROUND ALL EXISTING AND PROPOSED THE DURATION OF THE PROJECT UNTI	OF WORK. CATCHBASIN INLETS WITHIN THE PAVEMENT HAS BEEN INSTALLED	
JCTION ENTRANCES. ND SILT FENCES DAILY AND AFTER EA DTECTION AS NECESSARY TO MAXIMIZ /3 THE FILTER HEIGHT. O BE PAVED OR OTHERWISE TREATED	CH RAIN STORM OF 0.25 INCH OR E EFFICIENCY OF FILTER. REPLACE ALL SHALL RECEIVE 6" LOAM, SEED,	SCALE IN FEET 0 40' 80' GRAPHIC SCALE
DN ALL SLOPES STEEPER THAN 3:1. DISTURBANCE COMMENCING ON THE CANT SHALL INSTALL ALL EROSION AN JIRED BY STATE AND LOCAL PERMITS A DNSIBLE TO CONTROL DUST AND WINE T CONTROL MEASURES SHALL INCLUDE SUBJECT TO ARID CONDITIONS. OVE AND PROPERLY DISPOSE OF ALL T DF CONSTRUCTION AND FINAL STABAL	SUBJECT PROPERTY, INCLUDING ID SILTATION MITIGATION AND AND APPROVALS. D EROSION THROUGHOUT THE E, BUT NOT LIMITED TO, SPRINKLING TEMPORARY EROSION CONTROL IZATION.	Proposed Industrial Development
AS BEEN PAVED. SHALL BE SURROUNDED BY SILT FENC DL SEEDING. STOCKPILE AREAS TO BE TLAND. OVIDED AROUND STOCKPILES OVER 1	E AND SHALL BE STABILIZED BY LOCATED AS FAR AS POSSIBLE FROM 0 FT.	Lonza Biologics
EQUIRED TO WASH OUT (IF NECESSAF PLACED. NO OTHER WASH OUT WILL B	RY) SHOOTS ONLY WITHIN AREAS E ALLOWED.	
<u>LE</u> 56	GEND MATCH LINE PROPOSED PROPERTY LINE PROPOSED CONTOUR LINE PROPOSED DRAIN LINE (TYP) PROPOSED SILT SOCK INLET PROTECTION SILT SACK PROPOSED CATCHBASIN	Portsmouth, New Hampshire
© CONST BLDG TYP COORD RD VIF TC BC	PROPOSED DOUBLE GRATE CATCHBASIN PROPOSED DRAIN MANHOLE CONSTRUCT BUILDING TYPICAL COORDINATE ROOF DRAIN VERIFY IN FIELD TOP OF CURB BOTTOM OF CURB	N11/9/2023Revised P.B. SubmissionM9/27/2023P.B. SubmissionL9/1/2022Issued for ConstructionK5/27/2022Issued for BidJ5/23/2022Third Party Rev. CommentsI4/26/2022Revised PB StipulationsMARKDATEDESCRIPTIONPROJECT NO:L-0700-013DATE:04/03/2018FILE:L-0700-026-C-DSGN.dwgDRAWN BY:CJKCHECKED:NAH
ET 1 ET 2		PHASE 2 GRADING, DRAINAGE & EROSION CONTROL PLAN SCALE: AS SHOWN
		C-168











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better Thursday, November 09, 2023 Plotted By: Neil A. Hansen 3 File Les Thursday, November 09, 2023 Plotted By: Neil A. Hansen 3 File Les Thursday, November 09, 2023 Plotted By: Neil A. Hansen

ve Date: November 9, 2023 11:03 AM By: NAH,



LANDSCAPE NOTES:

2. THE CONTRACTOR SHALL FURNISH AND PLANT ALL PLANTS IN QUANTITIES AS SHOWN ON THIS PLAN. NO SUBSTITUTIONS WILL BE

NURSERYMEN STANDARDS, INCLUDING BUT NOT LIMITED TO SIZE, HEALTH, SHAPE, ETC., AND SHALL BE SUBJECT TO THE APPROVAL

MISCELLANEOUS PUBLICATIONS NO. 814, AGRICULTURAL RESEARCH SERVICE, UNITED STATES DEPARTMENT AGRICULTURE, LATEST

5. PLANT MATERIAL SHALL BARE THE SAME RELATIONSHIP TO FINISHED GRADE AS TO THE ORIGINAL PLANTING GRADE PRIOR TO

6. THE NUMBER OF EACH INDIVIDUAL PLANT TYPE AND SIZE PROVIDED IN THE PLANT LIST OR ON THE PLAN IS FOR THE CONTRACTOR'S CONVENIENCE ONLY. IF A DISCREPANCY EXISTS BETWEEN THE NUMBER OF PLANTS ON THE LABEL AND THE NUMBER OF SYMBOLS

8. THE CONTRACTOR SHALL LOCATE, VERIFY AND MARK ALL EXISTING AND NEWLY INSTALLED UNDERGROUND UTILITIES PRIOR TO ANY LAWN WORK OR PLANTING. ANY CONFLICTS WHICH MIGHT OCCUR BETWEEN PLANTING AND UTILITIES SHALL IMMEDIATELY BE

MULCH IS TO BE USED IN A CURBED ISLAND THE BARK MULCH SHALL MEET THE TOP INSIDE EDGE OF THE CURB. ALL OTHER AREAS

11. LANDSCAPING SHALL BE LOCATED WITHIN 150 FT OF EXTERIOR HOSE ATTACHMENT OR SHALL BE PROVIDED WITH AN IRRIGATION

15. PARKING AREA PLANTED ISLANDS TO HAVE MINIMUM OF 1'-0" TOPSOIL PLACED TO WITHIN 3 INCHES OF THE TOP OF CURB ELEVATION

16. TREES SHALL BE PRUNED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI A300 'TREES, SHRUBS AND OTHER WOOD PLANT

17. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24 HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL BE WATERED WEEKLY, OR MORE OFTEN, IF NECESSARY DURING THE FIRST GROWING SEASON. LANDSCAPE CONTRACTOR SHALL

18. EXISTING TREES AND SHRUBS SHOWN ON THE PLAN ARE TO REMAIN UNDISTURBED. ALL EXISTING TREES AND SHRUBS SHOWN TO REMAIN ARE TO BE PROTECTED WITH A 4-FOOT SNOW FENCE PLACED AT THE DRIP LINE OF THE BRANCHES OR AT 8 FEET MINIMUM FROM THE TREE TRUNK. ANY EXISTING TREE OR SHRUB SHOWN TO REMAIN, WHICH IS REMOVED DURING CONSTRUCTION, SHALL BE

19. THE CONTRACTOR SHALL GUARANTEE ALL PLANTINGS TO BE IN GOOD HEALTHY, FLOURISHING AND ACCEPTABLE CONDITION FOR A PERIOD OF (1) YEAR BEGINNING AT THE DATE OF ACCEPTANCE OF SUBSTANTIAL COMPLETION. ALL GRASSES, TREES AND SHRUBS THAT, IN THE OPINION OF THE LANDSCAPE ARCHITECT, SHOW LESS THAN 80% HEALTHY GROWTH AT THE END OF ONE YEAR PERIOD

20. UPON EXPIRATION OF THE CONTRACTOR'S ONE YEAR GUARANTEE PERIOD, THE OWNER SHALL BE RESPONSIBLE FOR LANDSCAPE

CONSTRUCTION. THIS PROTECTION SHALL BEGIN AT THE TIME THE PLANT IS INSTALLED AND CONTINUE UNTIL THE FORMAL

22. PRE-PURCHASE PLANT MATERIAL AND ARRANGE FOR DELIVERY TO MEET PROJECT SCHEDULE AS REQUIRED IT MAY BE NECESSARY TO

SEE SHEET C-176 FOR PLANT SCHEDULE

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TON NAME	SIZL	REMARKS	Ро	rtsmou	ıth,
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INE HONEYLOCUST	2 ¹ / ₂ - 3" CALIPER	B & B			
OINTE RED MAPLE	2 ¹ / ₂ - 3" CALIPER	В&В			
MCNAIR HORSECHESTNUT	$2\frac{1}{2}$ - 3" CALIPER	B & B			
	2 - $2\frac{1}{2}$ CALIPER	B&B			
	2 - $2\frac{1}{2}$ " CALIPER	B & B (SINGLE STEM)	Ν	11/9/2023	Revised P.B. Submission
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Symbol	Qty	Label	Arrangement	Description
	4	P5-2	Back-Back	MRM-LED-12L-SIL-5W-UNV-DIM-30- 70CRI-CXX / 4SQ B3 S11G 20 D180 GA 4BC (20' AFG)
Ð	7	S3	Single	MRM-LED-09L-SIL-3-UNV-DIM-30- 70CRI-CXX / 4SQ B3 S11G 20 S GA 4BC (20' AFG)
Ð	3	S4	Single	MRM-LED-09L-SIL-FT-UNV-DIM-30- 70CRI-CXX / 4SQ-B3-S11G-20-S-GA- 4BC (20' AFG)
Ð	1	S5-1	Single	MRM-LED-09L-SIL-5W-UNV-DIM-30- 70CRI-CXX / 4SQ B3 S11G 20 S GA 4BC (20' AFG)
	3	W3	Single	XWM-3-LED-12L-30-UE-CXX / WALL MTD 20' AFG
	10	W4	Single	XWM-FT-LED-12L-30-UE-CXX / WALL MTD 20' AFG

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15			Portsmouth, New Hampshire
. 6' x 2' CONCRETE BOX CULVERT			M9/27/2023P.B. SubmissionL7/17/2023Amended Site Plan ReviewK5/5/2023Phase 1B Issued for BidJ3/15/2023Phase 1B Issued for Preliminary PricingI1/9/2023Admin. Approval SubmissionH12/10/2021Planning Board StipulationG8/19/2019Admin. Approval SubmissionF11/6/2018P.B. SubmissionMARKDATEDESCRIPTIONPROJECT NO:L-0700-013DATE:04/03/2018
el Arrangement 2 Back-Back	Description MRM-LED-12L-SIL-5W-UNV-DIM-30- 70CRI-CXX / 4SO B3 S11G 20 D180	[MANUFAC] LSI INDUSTRIES,	FILE: L-0700-026-C-DSGN.dwg DRAWN BY: CJK
Single	GA 4BC (20' AFG) MRM-LED-09L-SIL-3-UNV-DIM-30- 70CRI-CXX / 4SQ B3 S11G 20 S GA	INC. LSI INDUSTRIES,	CHECKED: NAH APPROVED: PMC
Single	4BC (20' AFG) MRM-LED-09L-SIL-FT-UNV-DIM-30- 70CRI-CXX / 4SQ-B3-S11G-20-S-GA-	INC. LSI INDUSTRIES,	PHASE 2 PHOTOMETRIC
l Single	4BC (20' AFG) MRM-LED-09L-SIL-5W-UNV-DIM-30- 70CRI-CXX / 4SQ B3 S11G 20 S GA	LSI INDUSTRIES,	LIGHTING PLAN
Single	XWM-3-LED-12L-30-UE-CXX / WALL MTD 20' AFG	LSI INDUSTRIES,	SCALE: AS SHOWN
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D IS LEI	NT ON THE	CONDITION	THAT IT SHAL	L NOT BE R	EPRODUCE	D, COPIED, LEN	T OR DISPOS	ED OF, DIRECTI	LY OR INDIF	RECTLY, OR	USED FOR	ANY PURPOS IMP1: 4" THICK INSU COLOR: PURP IMP2: 4" THICK INSU COLOR: DEEP IMP2: 4" THICK IMP/ CLEAR AS MAP PRIOR FABRI SAMPLES FO GL2: 1" THICK IMP/ REQUIRED) L INCH ( W/90% VITRO AMERI INSTALLATIO APPROVAL. U VALUE:0.25 ROOF: WHITE	JLATED METAL JLATED METAL ² LE, R245 G243 JLATED METAL ² LE, R245 G243 JLATED METAL ² PURPLE, R56 O BROKEN CURTA ² R OR APPROVI ACT RESISTANT O XL SURFACE 1 NUFACTURED CATION AND INS R ARCHITECT A ACT RESISTANT ANINATED SPA ARGON FILL) II ICA OR APPROV N THE CONTRA CONTRA CONTRA
		F 					B A.5 1 14'-5 1/2" 13'- 19'-9' TYP ANEL MODULE	A 0.A 9 3/4" 12'-0" (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00) (BL00)	BL1 HEADHOU 109 BL1 PARA BL1 ROOF H 93'- BL1 MEZZAN 71' BL1 FIRST FLC 56'	$\frac{JSE}{-3"}$		The second secon	IR CANOPY - REFER TO ER CANOPY - REFER TO OVABLE PANELS.
)	F 340 17	F.5 -0° 17'-0"	G G.5 17' - 0" J 1 17' - 1	H ( /'-0" 17'-0"	H.5             	) [.5] 34 ¹ - 0"	J 32" - 2 1/4"	K K.4	BL1 HEAL BL1 P	DHOUSE 109' - 3"			



# DETAILS PLAN SET APRIL 3, 2018 REVISED: NOVEMBER 9, 2023

LIST OF DRAWINGS								
SHEET NO.	SHEET TITLE	LAST REVISED						
	DETAILS COVER SHEET	11/9/2023						
C-501	EROSION CONTROL NOTES & DETAILS SHEET	9/27/2023						
C-502	DETAILS SHEET	11/9/2023						
C-503	DETAILS SHEET	11/9/2023						
C-504	DETAILS SHEET	9/27/2023						
C-505	DETAILS SHEET	9/27/2023						
C-506	DETAILS SHEET	9/27/2023						
C-507	DETAILS SHEET	9/27/2023						
C-508	DETAILS SHEET	9/27/2023						
C-509	DETAILS SHEET	11/9/2023						
C-510	DETAILS SHEET	9/27/2023						
C-511	DETAILS SHEET	9/27/2023						
C-512	DETAILS SHEET	9/27/2023						

# **COMPLETE SET 13 SHEETS**





GENERAL PROJECT INFORMA	TION	4. ALL AREAS SHALL BE STABILIZED WITHIN 45 DA
PROJECT LESSOR:	PEASE DEVELOPMENT AUTHORITY 55 INTERNATIONAL DRIVE	5. WHEN CONSTRUCTION ACTIVITY PERMANENTLY OF NEARBY SURFACE WATERS OR DELINEATED
PROJECT OWNER/ APPLICANT:	PORTSMOUTH, NH 03801 LONZA BIOLOGICS	WITHIN SEVEN (7) DAYS OR PRIOR TO A RAIN E CEASES PERMANENTLY IN AN THESE AREAS, SIL
,	101 INTERNATIONAL DRIVE PORTSMOUTH, NH 03801	BARRIERS AND ANY EARTH/DIKES SHALL BE REI ESTABLISHED.
OJECT ADDRESS:	70 & 80 CORPORATE DRIVE PORTSMOUTH, NH 03801	<ol> <li>DURING CONSTRUCTION, RUNOFF WILL BE DIVE DIKES, PIPING OR STABILIZED CHANNELS WHEN</li> </ol>
OJECT LATITUDE: OJECT LONGITUDE:	43°-04'-59.0"N 71°-48'-09.7"W	WILL BE FILTERED THROUGH SILT FENCES, MUL SOCKS. ALL STORM DRAIN BASIN INLETS SHALL
ROJECT DESCRIPTION		AND TRASH RACKS. THE SITE SHALL BE STABIL
INSTRUCTION OF 4 PROPOSEL	D BUILDINGS, 1 PARKING GARAGE, AND ASSOCIATED SITE	<ol> <li>THE CONTRACTOR SHALL BE RESPONSIBLE TO C CONSTRUCTION PERIOD.</li> </ol>
STURBED AREA		<ol> <li>DUST CONTROL METHODS SHALL INCLUDE, BUT EXPOSED AREAS, COVERING LOADED DUMP TRL</li> </ol>
E TOTAL AREA TO BE DISTUR	BED IS APPROXIMATELY 21.3 ACRES.	MULCHING. 3. DUST CONTROL MEASURES SHALL BE UTILIZED
SED ON THE HIGH INTENSITY	SOIL SURVEY PREPARED BY GOVE ENVIRONMENTAL SERVICES,	STOCKPILES:
ID PRIMARILY CONSIST OF SC	MEWHAT POORLY DRAINED SOILS.	<ol> <li>LOCATE STOCKPILES A MINIMUM OF 50 FEET AW CULVERTS.</li> </ol>
AME OF RECEIVING WATERS	<u>5</u> _L ULTIMATELY DISCHARGE INTO HODGSON BROOK	<ol> <li>ALL STOCKPILES SHOULD BE SURROUNDED WIT MEASURES PRIOR TO THE ONSET OF PRECIPITATION</li> </ol>
ONSTRUCTION SEQUENCE O	F MAJOR ACTIVITIES:	3. PERIMETER BARRIERS SHOULD BE MAINTAINED TO ACCOMMODATE THE DELIVERY AND REMOVA
CONSTRUCT TEMPORARY AN FACILITIES FROSION SEDI	ND PERMANENT SEDIMENT, EROSION AND DETENTION CONTROL	4. PROTECT ALL STOCKPILES FROM STORMWATER
TO ANY EARTH MOVING OPE AS:	ERATIONS THAT WILL INFLUENCE STORMWATER RUNOFF SUCH	PREVENT MIGRATION OF MATERIAL BEYOND THE
<ul><li>NEW CONSTRUCTION</li><li>CONTROL OF DUST</li></ul>	DN	OFF SITE VEHICLE TRACKING: 1. THE CONTRACTOR SHALL CONSTRUCT STABILIZ
NEARNESS OF CON     CONSTRUCTION DL	STRUCTION SITE TO RECEIVING WATERS	ANY EXCAVATION ACTIVITIES.
ALL PERMANENT DITCHES, S TO BE STABILIZED USING T	SWALES, DEFENTION, RETENTION AND SEDIMENTATION BASINS THE VEGETATIVE AND NON-STRUCTURAL BMPS PRIOR TO	VEGETATION: 1. TEMPORARY GRASS COVER:
CLEAR AND DISPOSE OF DE	M. BRIS. II VERTS AND DIVERSION CHANNELS AS REQUIRED	A. SEEDBED PREPARATION: a. APPLY FERTILIZER AT THE RATE OF 600 PC LIMESTONE (EQUIVALENT TO FOR DEDOCTAT
GRADE AND GRAVEL ROADV	VAYS AND PARKING AREAS - ALL ROADS AND PARKING AREA	RATE OF THREE (3) TONS PER ACRE; B. SFEDING:
BEGIN PERMANENT AND TEN SHALL BE SEEDED AND MU	PORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES CHED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.	a. UTILIZE ANNUAL RYE GRASS AT A RATE OF b. WHERE THE SOIL HAS BEEN COMPACTED F
DAILY, OR AS REQUIRED, CO EROSION CONTROL MEASUR	ONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, PERIMETER RES, SEDIMENT TRAPS, ETC., MULCH AND SEED AS REQUIRED.	SOIL TO A DEPTH OF TWO (2) INCHES BEF c. APPLY SEED UNIFORMLY BY HAND, CYCLO
SEDIMENT TRAPS AND/OR E UNTIL SOILS ARE STABILIZE	BASINS SHALL BE USED AS NECESSARY TO CONTAIN RUNOFF	INCLUDING SEED AND FERTILIZER). HYDR BE LEFT ON SOIL SURFACE. SEEDING RATI
. FINISH PAVING ALL ROADW INSPECT AND MAINTAIN ALI	AYS AND PARKING LOTS. L EROSION AND SEDIMENT CONTROL MEASURES.	HYDROSEEDING; C. MAINTENANCE:
2. COMPLETE PERMANENT SEE 3. REMOVE TRAPPED SEDIMEN	DING AND LANDSCAPING. TS FROM COLLECTOR DEVICES AS APPROPRIATE AND THEN	a. TEMPORARY SEEDING SHALL BE PERIODIC THE SOIL SURFACE SHOULD BE COVERED
	UN CONTROL MEASURES.	TEMPORARY MEASURES USED IN THE INTE
. THE CONSTRUCTION SEQUE . THE PROJECT IS TO BE MAN	NCE MUST LIMIT THE DURATION AND AREA OF DISTURBANCE.	2. VEGETATIVE PRACTICE:
INTENT OF RSA 430:53 AND	CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.	a. LIMESTONE SHALL BE THOROUGHLY INCO OF THREE (3) TONS PER ACRE IN ORDER T
ROSION CONTROL NOTES: ALL EROSION CONTROL ME	ASURES AND PRACTICES SHALL CONFORM TO THE "NEW	b. FERTILIZER SHALL BE SPREAD ON THE TOF SURFACE. FERTILIZER APPLICATION RATE
HAMPSHIRE STORMWATER I	MANUAL VOLUME 3: EROSION AND SEDIMENT CONTROLS DURING BY THE NHDES.	10-20-20 FERTILIZER; c. SOIL CONDITIONERS AND FERTILIZER SH/
PRIOR TO ANY WORK OR SC DRAWINGS FOR EROSION C	DIL DISTURBANCE, CONTRACTOR SHALL SUBMIT SHOP ONTROL MEASURES AS REQUIRED IN THE PROJECT MANUAL.	RATES AND SHALL BE THOROUGHLY WORK UNTIL THE SURFACE IS FINELY PULVERIZE
BALES, SILT FENCES, MULCI	H BERMS, SILT SACKS AND SILT SOCKS AS SHOWN IN THESE	COMPACTED TO AN EVEN SURFACE CONFO GRADES WITH APPROVED ROLLERS WEIGH
SILT SACK INLET PROTECTION	NDER OF WORK. ON SHALL BE INSTALLED IN ALL EXISTING AND PROPOSED IN THE WORK LIMITS AND BE MAINTAINED FOR THE DURATION	d. SEED SHALL BE SOWN AT THE RATE SHOW
OF THE PROJECT. PERIMETER CONTROLS INCL	UDING SILT FENCES, MULCH BERM, SILT SOCK, AND/OR HAY	WORKMEN. IMMEDIATELY BEFORE SEEDIN
BALE BARRIERS SHALL BE M NON-PAVED AREAS HAVE BE	IAINTAINED FOR THE DURATION OF THE PROJECT UNTIL	ANGLES TO THE ORIGINAL DIRECTION. IT
THE CONTRACTOR SHALL RI CONTROL DEVICES UPON CO	EMOVE AND PROPERLY DISPOSE OF ALL TEMPORARY EROSION OF CONSTRUCTION.	OVER 100 POUNDS PER LINEAR FOOT OF V e. HAY MULCH SHALL BE APPLIED IMMEDIATE
ALL DISTURBED AREAS NOT AND FERTILIZER.	OTHERWISE BEING TREATED SHALL RECEIVE 6" LOAM, SEED	f. THE SURFACE SHALL BE WATERED AND KE WITHOUT WASHING AWAY THE SOIL, UNT
STORM OF 0.25 INCH OR GF	REATER. REPAIR/MODIFY PROTECTION AS NECESSARY TO	AREAS WHICH ARE NOT SATISFACTORILY AND ALL NOXIOUS WEEDS REMOVED;
HEIGHT.	ILILK, KERLAGE ALL FILIEKS WHEN SEDIMENT IS 1/3 THE FILTER	g. THE CONTRACTOR SHALL PROTECT AND M ACCEPTED;
	The second state second steer in them s.t.	II. A GRASS SEED MIXTURE CONTAINING THE BE APPLIED AT A RATE OF 40 LB/AC OR AP
AN AREA SHALL BE CONSID A. BASE COURSE GRAVELS	ERED STABLE WHEN ONE OF THE FOLLOWING HAS OCCURRED: HAVE BEEN INSTALLED IN AREAS TO BE PAVED;	"REBEL II" TALL FESCUE "PAI MER" PERENNIAL RYEGRASS
B. A MINIMUM OF 85% VEG C. A MINIMUM OF 3" OF NO	ETATED GROWTH HAS BEEN ESTABLISHED; N-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN	"BARON" KENTUCKEY BLUEGRASS IN NO CASE SHALL THE WEED CONTENT E
INSTALLED; D. EROSION CONTROL BLAN	IKETS HAVE BEEN PROPERLY INSTALLED.;	SEED SHALL COMPLY WITH STATE AND FEI NO LATER THAN SEPTEMBER 15. IN NO CA
E. IN AREAS TO BE PAVED, REQUIREMENTS OF NHDO	"STABLE" MEANS THAT BASE COURSE GRAVELS MEETING THE DT STANDARD FOR ROAD AND BRIDGE CONSTRUCTION, 2016,	3. DORMANT SEEDING (SEPTEMBER 15 TO FIRST S A. FOLLOW PERMANENT MEASURES SLOPE, LIME
ITEM 304.2 HAVE BEEN I WINTER STABILIZATION PR	NSTALLED. ACTICES: ED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 25 DEDOCNT	REQUIREMENTS. APPLY SEED MIXTURE AT TW INDICATED FOR PERMANENT MEASURES.
VEGETATIVE GROWTH BY	OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SEEDING AND INSTALLING FROSION CONTROL BLANKETS ON	CONCRETE WASHOUT AREA:
SLOPES GREATER THAN 3 ACRE, SECURED WITH AN	3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER NCHORED NETTING, ELSEWHERE. THE INSTALLATION OF	AT THEIR OWN PLANT OR DISPATCH FACILITY; 2 IF IT IS NECESSARY SITE CONTRACTOR SHALL
EROSION CONTROL BLAN ACCUMULATED SNOW OF	KETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE	DESIGN FACILITIES TO HANDLE ANTICIPATED W 3. CONTRACTOR SHALL LOCATE WASHOUT AREAS
OF THAW OR SPRING ME B. ALL DITCHES OR SWALES	LT EVENTS; 5 WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT	DRAINS, SWALES AND SURFACE WASHOUT AREAS 4. INSPECT WASHOUT FACILITIES DAILY TO DETECT
VEGETATIVE GROWTH BY SHALL BE STABILIZED TE	OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, MPORARILY WITH STONE OR EROSION CONTROL BLANKETS	MATERIALS NEED TO BE REMOVED.
APPROPRIATE FOR THE D C. AFTER NOVEMBER 15, IN	ESIGN FLOW CONDITIONS; COMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS	ALLOWABLE NON-STORMWATER DISCHARGES: 1. THE FOLLOWING ARE THE ONLY NON-STORMWA
STOPPED FOR THE WINTI INCHES OF CRUSHED GR	ER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 AVEL PER NHDOT ITEM 304.3, OR IF CONSTRUCTION IS TO	NON-STORMWATER DISCHARGES ARE PROHIBIT A. FIRE-FIGHTING ACTIVITIES;
AFTER EACH STORM EVEN	E WINTER SEASON BE CLEARED OF ANY ACCUMULATED SNOW NT; NITIATED ON ALL LOAM STOCKDILES, AND DISTURDED ADDAC	<ul><li>B. FIRE HYDRANT FLUSHING;</li><li>C. WATERS USED TO WASH VEHICLES WHERE D</li></ul>
THADLIZATION SHALL BE !!	NITIATED ON ALL LOAM STOCKPILES, AND DISTURBED AREAS,	D. WATER USED TO CONTROL DUST;
	TIVITY SHALL NOT OCCUR FOR MORE THAN TWENTY-ONE (21)	E. POTABLE WATER INCLUDING UNCONTAMINAT
WHERE CONSTRUCTION ACT CALENDAR DAYS BY THE FO PERMANENTLY OR TEMPORA USED INCLUDE:	TIVITY SHALL NOT OCCUR FOR MORE THAN TWENTY-ONE (21) URTEENTH (14TH) DAY AFTER CONSTRUCTION ACTIVITY HAS RILY CEASED IN THAT AREA. STABILIZATION MEASURES TO BE	E. POTABLE WATER INCLUDING UNCONTAMINAT F. ROUTINE EXTERNAL BUILDING WASH DOWN ' G. PAVEMENT WASH WATERS WHERE DETERGEN
WHERE CONSTRUCTION ACT CALENDAR DAYS BY THE FO PERMANENTLY OR TEMPORA USED INCLUDE: A. TEMPORARY SEEDING; B. MULCHING.	TIVITY SHALL NOT OCCUR FOR MORE THAN TWENTY-ONE (21) URTEENTH (14TH) DAY AFTER CONSTRUCTION ACTIVITY HAS RILY CEASED IN THAT AREA. STABILIZATION MEASURES TO BE	<ul> <li>E. POTABLE WATER INCLUDING UNCONTAMINAT</li> <li>F. ROUTINE EXTERNAL BUILDING WASH DOWN '</li> <li>G. PAVEMENT WASH WATERS WHERE DETERGEN</li> <li>H. UNCONTAMINATED AIR CONDITIONING/COMF</li> <li>I. UNCONTAMINATED GROUND WATER OR SPRING</li> <li>CONDATION OR FOOTING DRAINS WHICH AND</li> </ul>

5 DAYS OF INITIAL DISTURBANCE. ITLY OR TEMPORARILY CEASES WITHIN 100 FEET TED WETLANDS, THE AREA SHALL BE STABILIZED AIN EVENT. ONCE CONSTRUCTION ACTIVITY SILT FENCES, MULCH BERMS, HAY BALE REMOVED ONCE PERMANENT MEASURES ARE

DIVERTED AROUND THE SITE WITH EARTH HERE POSSIBLE. SHEET RUNOFF FROM THE SITE MULCH BERMS, HAY BALE BARRIERS, OR SILT HALL BE PROVIDED WITH FLARED END SECTIONS BILIZED FOR THE WINTER BY NOVEMBER 15.

TO CONTROL DUST THROUGHOUT THE

BUT BE NOT LIMITED TO SPRINKLING WATER ON TRUCKS LEAVING THE SITE, AND TEMPORARY

ZED SO AS TO PREVENT THE MIGRATION OF

T AWAY FROM CATCH BASINS, SWALES, AND

WITH TEMPORARY EROSION CONTROL

PITATION. NED AT ALL TIMES, AND ADJUSTED AS NEEDED 10VAL OF MATERIALS FROM THE STOCKPILE. THE SPECTED AT THE END OF EACH WORKING DAY. TER RUN-OFF USING TEMPORARY EROSION SOCK, OR OTHER APPROVED PRACTICE TO THE IMMEDIATE CONFINES OF THE STOCKPILES.

BILIZED CONSTRUCTION ENTRANCE(S) PRIOR TO

00 POUNDS PER ACRE OF 10-10-10. APPLY ENT CALCIUM PLUS MAGNESIUM OXIDE) AT A

TE OF 40 LBS/ACRE;

ED BY CONSTRUCTION OPERATIONS, LOOSEN BEFORE APPLYING FERTILIZER, LIME AND SEED; CLONE SEEDER, OR HYDROSEEDER (SLURRY YDROSEEDINGS, WHICH INCLUDE MULCH, MAY RATES MUST BE INCREASED 10% WHEN

DDICALLY INSPECTED. AT A MINIMUM, 95% OF RED BY VEGETATION. IF ANY EVIDENCE OF ARENT, REPAIRS SHALL BE MADE AND OTHER INTERIM (MULCH, FILTER BARRIERS, CHECK

NGS:

NCORPORATED INTO THE LOAM LAYER AT A RATE DER TO PROVIDE A PH VALUE OF 5.5 TO 6.5; TOP LAYER OF LOAM AND WORKED INTO THE ATE SHALL BE 800 POUNDS PER ACRE OF

SHALL BE APPLIED AT THE RECOMMENDED ORKED INTO THE LOAM. LOAM SHALL BE RAKED RIZED, SMOOTH AND EVEN, AND THEN NFORMING TO THE REQUIRED LINES AND EIGHING BETWEEN 4-1/2 POUNDS AND 5-1/2

HOWN BELOW. SOWING SHALL BE DONE ON A HINE, BUT IF BY HAND, ONLY BY EXPERIENCED EDING, THE SOIL SHALL BE LIGHTLY RAKED. ONE INE DIRECTION AND THE OTHER HALF AT RIGHT N. IT SHALL BE LIGHTLY RAKED INTO THE SOIL TO LLED WITH A HAND ROLLER WEIGHING NOT OF WIDTH;

DIATELY AFTER SEEDING AS INDICATED ABOVE; ND KEPT MOIST WITH A FINE SPRAY AS REQUIRED, UNTIL THE GRASS IS WELL ESTABLISHED. ANY RILY COVERED WITH GRASS SHALL BE RESEEDED,

ND MAINTAIN THE SEEDED AREAS UNTIL

THE FOLLOWING SEED REQUIREMENTS SHALL R APPROVED EUQAL:

- APPLICATION RATE 70%
- 20%
- 10%

NT EXCEED ONE (1) PERCENT BY WEIGHT. ALL D FEDERAL SEED LAWS. SEEDING SHALL BE DONE CASE SHALL SEEDING TAKE PLACE OVER SNOW. RST SNOWFALL):

IME, FERTILIZER AND GRADING TWICE THE INDICATED RATE. APPLY MULCH AS

VHENEVER POSSIBLE, USE WASHOUT FACILITIES

ALL DESIGNATE SPECIFIC WASHOUT AREAS AND ED WASHOUT WATER; EAS AT LEAST 150 FEET AWAY FROM STORM

R DELINEATED WETLANDS; ETECT LEAKS OR TEARS AND TO IDENTIFY WHEN

MWATER DISCHARGES ALLOWED. ALL OTHER IBITED ON SITE:

RE DETERGENTS ARE NOT USED;

- INATED WATER LINE FLUSHING;
- WN WHERE DETERGENTS ARE NOT USED;
- RGENTS ARE NOT USED; COMPRESSOR CONDENSATION;
- SPRING WATER;
- CH ARE UNCONTAMINATED;

### WASTE DISPOSAL: WASTE MATERIA

- A. ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN SECURELY LIDDED RECEPTACLES. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN A DUMPSTER;
- B. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE;
- C. ALL PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL BY THE SUPERINTENDENT.
- HAZARDOUS WASTE: A. ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER; B. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES BY THE SUPERINTENDENT
- 3. SANITARY WASTE: A. ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

# SPILL PREVENTION

- CONTRACTOR SHALL BE FAMILIAR WITH SPILL PREVENTION MEASURES REQUIRED BY LOCAL, STATE AND FEDERAL AGENCIES. AT A MINIMUM, CONTRACTOR SHALL FOLLOW THE BEST MANAGEMENT SPILL PREVENTION PRACTICES OUTLINED BELOW.
- 2. THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES DURING CONSTRUCTION TO STORMWATER RUNOFF:
- A. GOOD HOUSEKEEPING THE FOLLOWING GOOD HOUSEKEEPING PRACTICE SHALL BE FOLLOWED ON SITE DURING CONSTRUCTION: a. ONLY SUFFICIENT AMOUNTS OF PRODUCTS TO DO THE JOB SHALL BE STORED ON
- SITE b. ALL MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN
- THEIR PROPER (ORIGINAL IF POSSIBLE) CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE; c. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE
- FOLLOWED; d. THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND
- DISPOSAL OF MATERIALS; e. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY
- THE MANUFACTURER; f. WHENEVER POSSIBLE ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING OF
- THE CONTAINER. HAZARDOUS PRODUCTS - THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:
- g. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE; h. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED FOR IMPORTANT
- PRODUCT INFORMATION; i. SURPLUS PRODUCT THAT MUST BE DISPOSED OF SHALL BE DISCARDED ACCORDING
- TO THE MANUFACTURER'S RECOMMENDED METHODS OF DISPOSAL C. PRODUCT SPECIFIC PRACTICES - THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL BE FOLLOWED ON SITE:
- a. PETROLEUM PRODUCTS:
- ALL ON SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE LEAKAGE;
- PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT BASED SUBSTANCES USED ON SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. b. FERTILIZERS:
- FERTILIZERS USED SHALL BE APPLIED ONLY IN THE MINIMUM AMOUNTS DIRECTED BY THE SPECIFICATIONS;
- ONCE APPLIED FERTILIZER SHALL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER; STORAGE SHALL BE IN A COVERED SHED OR ENCLOSED TRAILERS. THE CONTENTS
- OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
- c. PAINTS: ALL CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED
- FOR USE;
- EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM; • EXCESS PAINT SHALL BE DISPOSED OF PROPERLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.
- D. SPILL CONTROL PRACTICES IN ADDITION TO GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTION, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:
- a. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES;
- b. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS SHALL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST AND PLASTIC OR METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE;
- c. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY; d. THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A
- HAZARDOUS SUBSTANCE; e. SPILLS OF TOXIC OR HAZARDOUS MATERIAL SHALL BE REPORTED TO THE
- APPROPRIATE LOCAL, STATE OR FEDERAL AGENCIES AS REQUIRED;
- f. THE SITE SUPERINTENDENT RESPONSIBLE FOR DAY-TO-DAY SITE OPERATIONS SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR.
- E. VEHICLE FUELING AND MAINTENANCE PRACTICE: a. CONTRACTOR SHALL MAKE AN EFFORT TO PERFORM EQUIPTMENT/VEHICAL FUELING
- AND MAINTENANCE AT AN OFF-SITE FACILITY; b. CONTRACTOR SHALL PROVIDE AN ON-SITE FUELING AND MAINTENANCE AREA THAT IS CLEAN AND DRY;
- c. IF POSSIBLE THE CONTRACTOR SHALL KEEP AREA COVERED;
- d. CONTRACTOR SHALL KEEP A SPILL KIT AT THE FUELING AND MAINTENANCE AREA;
- e. CONTRACTOR SHALL REGULARLY INSPECT VEHICLES FOR LEAKS AND DAMAGE; f. CONTRACTOR SHALL USE DRIP PANS, DRIP CLOTHS, OR ABSORBENT PADS WHEN
- REPLACING SPENT FLUID.

## **EROSION CONTROL OBSERVATIONS AND MAINTENANCE PRACTICES**

THIS PROJECT EXCEEDS ONE (1) ACRE OF DISTURBANCE AND THUS REQUIRES A SWPPP. THE SWPPP SHALL BE PREPARED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE FAMILIAR WITH THE SWPPP AND KEEP AN UPDATED COPY OF THE SWPPP ONSITE AT ALL TIMES.

- THE FOLLOWING REPRESENTS THE GENERAL OBSERVATION AND REPORTING PRACTICES THAT SHALL BE FOLLOWED AS PART OF THIS PROJECT: OBSERVATIONS OF THE PROJECT FOR COMPLIANCE WITH THE SWPPP SHALL BE MADE BY
- THE CONTRACTOR AT LEAST ONCE A WEEK OR WITHIN 24 HOURS OF A STORM 0.25 INCHES OR GREATER;
- 2. AN OBSERVATION REPORT SHALL BE MADE AFTER EACH OBSERVATION AND DISTRIBUTED TO THE ENGINEER, THE OWNER, AND THE CONTRACTOR;
- 3. A REPRESENTATIVE OF THE SITE CONTRACTOR, SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR ACTIVITIES;
- 4. IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.

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- CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQUARE INCHES PER LINEAR FOOT IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE
- 3. THE TONGUE AND THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQUARE INCHES PER LINEAR

- 11° ANGLE CENTERED IN THE WIDTH OF THE WALL AND SHALL BE ASSEMBLED
- 10. ALL STRUCTURES WITH MULTIPLE PIPES SHALL HAVE A MINIMUM OF 12" OF INSIDE SURFACE BETWEEN HOLES, NO MORE THAN 75% OF A HORIZNTAL CROSS SECTION SHALL BE HOLES, AND THERE SHALL BE NO HOLES CLOSER THAN 3" TO

	COR	E HOLE SIZ	ZE	
PIPE SIZE	RCP CORE	HOLE DIA.	PLASTIC C DI	ORE HOLE
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6			7	0.6
12	18	1.5	18	1.5
15	22	1.8	20	1.7
18	26	2.2	24	2.0
24	34	2.8	32	2.7
30	42	3.5	42	3.5
36	48	4.0	48	4.0

	WALL	FLOOR
DIAMETER	THICKNESS	THICKNESS
	(MIN.)	(MIN.)
4'	5"	6"
5'	6"	8"
6'	7"	8"


















169 Ocean Boulevard/PO Box 249 Hampton, NH 03842 603.601.8154

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October 3, 2023

Peter M. Stith, AICP Planning Manager City of Portsmouth Planning & Sustainability Department 1 Junkins Avenue Portsmouth, NH 03801

Ref. T1399

Re: Proposed Lonza Biologics Expansion Traffic Engineering Peer Review

Dear Mr. Stith:

On behalf of the City of Portsmouth, TEC, Inc. (TEC) has reviewed documents as part of the traffic engineering peer review for the proposed expansion of the Lonza Biologics, Inc. ("the Applicant") manufacturing campus along Corporate Drive in Portsmouth ("the Project"). The Project consists of constructing approximately 800,000 square feet of gross floor area supporting manufacturing, utility, and office space needs; and a new parking structure on a mainly undeveloped parcel as part of the Applicant's master plan. A portion of the Project was previously permitted and approved by the Planning Board in January 2019 with several conditions. The proposed expansion proposal includes one new full-access driveway that will utilize the former Goose Bay Drive right-of-way. The following documents were considered as part of our review:

- Transportation Impact Assessment Lonza Biologics; prepared by Tighe & Bond, dated July 17, 2023;
- Site Plans Proposed Industrial Development 70 & 80 Corporate Drive, Portsmouth, NH; prepared by Tighe & Bond, dated July 17, 2023; and
- Other project related correspondence.

TEC completed a review of the Applicant's documents on behalf of the City of Portsmouth and provides the following transportation-related comments that we compiled during our review.

#### **Traffic Impact Assessment**

- 1. The Traffic Impact and Access Study (TIAS) prepared by Tighe & Bond (T&B) included the intersections that provide key access to the Project site and following supplemental intersections within the study area as requested by the Planning Board in Condition 2.11:
  - Gosling Road/ Spaulding Turnpike Intersection
  - International Drive/Corporate Drive/Manchester Square Intersection
  - International Drive/Pease Blvd Intersection
  - New Hampshire Ave/International Dr./Corporate Dr./Durham St. Intersection
  - Corporate Drive/Grafton Drive Intersection
  - NH 33/ Grafton Drive Intersection

TEC concurs with the Applicant's expanded study area. No response required.

**Engineering Tomorrow's Solutions Today.** 

T:\T1399\Docs\Letters\TEC Traffic Peer Review_Lonza_10-3-2023.docx Proposed Lonza Biologics Expansion Traffic Engineering Peer Review October 3, 2023 Page 2 of 5



- 2. Traffic volume counts, including Turning Movement Counts (TMCs) and Automatic Traffic Recorder (ATR) data, were conducted at the study area intersections in February 2022 and March 2023. The recorded volumes for both periods were found to be below the peak monthly conditions based on historical traffic-volume data obtained from NHDOT records, and therefore T&B applied an appropriate adjustment factor. The data was also further adjusted to reflect a COVID adjustment factor of 16% to 53% based on current NHDOT protocols. We believe these adjustments will result in a *highly conservative* assessment of the future No-Build scenario (without the influence of the trips associated with the Project). *No response required*.
- 3. The weekday morning and weekday evening peak "commuter" hours were studied to determine the project's overall effect on the roadway. TEC concurs that these selected time periods are appropriate as the peak hours of the industrial development typically overlap with the peak hours of the adjacent street system. We understand that the Applicant currently manages their employee shift times to avoid the actual peak traffic hours. *No response required*.
- 4. The TIA presents motor vehicle crash data for each study area intersection. The crash data indicates the number, type, and severity of crashes at the study area intersections between 2019 and 2021 obtained from the City of Portsmouth Police Department. The TIA summarizes the general crash statistics. Given the influence of the pandemic, the data from 2020 and 2021 may not provide the most accurate data given the depressed traffic volumes during that time. However, given the data compiled for 2019, TEC concurs with the crash analysis methodology and findings based on the compiled data. *No response required.*
- 5. The background growth rate of 1.0 percent per year was applied to the 2022/2023 existing volumes to generate the 2025 and 2035 future year volumes per NHDOT guidelines. The traffic projections also included estimated trips associated with other remaining development parcels in the Pease Development Authority (PDA) master plan, including 100 New Hampshire Avenue. Given the COVID adjustments noted in Comment #2, the ambient traffic growth and other background trips, TEC believes the traffic projections are highly conservative. *No response required.*
- 6. The Project's trip generation calculations for the proposed expansion of 800,000 square feet were based on the estimated 1,020 new employees and a prorated relationship to the traffic that was generated by the 1,139 existing employees as of 2018. This estimate of new trips may be based on the older data for the Lonza site during a time when they had a predominant in-person work environment. The T&B trip projections however fall well below the calculations based on the ITE Trip Generation Manual, 11th Edition, Land Use Codes (LUCs) 110 (General Light Industrial) and 140 (Manufacturing) when using floor area as the independent variable. This may be the result of the Applicant's proactive management of the employee shift times. If the shift times overlap with the actual peak hours for the adjacent street system, the Applicant's traffic impacts will be greater. The Planning Board should consider a condition of approval that mandates that the Applicant maintains shift times that do not overlap with the documented morning and evening peak hours for Corporate Drive and International Drive unless otherwise approved by the Board after considering updated traffic data and trip generation information. TEC further recommends that the Board request a daily traffic count for the proposed site access point to better understand the hourly distribution of traffic over the course of several weekdays.

Proposed Lonza Biologics Expansion Traffic Engineering Peer Review October 3, 2023 Page 3 of 5



- 7. The TIA included a distribution analysis for the new trips that was based on the zip code data for the current Lonza employees' place of residence. Given the significant number of new employees, TEC recommends that the Applicant perform a supplemental sensitivity analysis using U.S. Census data and limited travel time runs to confirm the percentage of traffic that is expected to use each gateway to the Pease Tradeport.
- 8. The Build traffic volumes were grown to 2025 and 2035 to cover an opening year and 10year planning horizon from time of data collection (2022/2023). TEC concurs with this methodology as these scenarios align with NHDOT Transportation Impact Assessment (TIA) Guidelines. *No response required.*
- 9. Although the projections may be conservative, TEC generally concurs with the results of the capacity and queue analysis provided as part of the TIA utilizing Highway Capacity Manual (HCM) 6th Edition methodology for the study area intersections. The 2035 Build condition shows some concerning levels of service with high delays for certain traffic movements that are acutely related to the commuter traffic into Pease Tradeport in the morning and departing in the late afternoon and evening peak hours.
- 10. The Applicant should provide a queue analysis for the proposed driveway gate system to ensure that entering traffic will not queue onto Corporate Drive.
- 11. The TIA documents substantial delays for the exiting employee traffic during the evening peak hour within the single departure lane. The Applicant should consider separate left-and right-turn lanes at the driveway intersection with Corporate Drive.
- 12. TEC recommends that the Applicant coordinate with PDA to perform supplemental all-way stop control (AWSC) and traffic signal warrant analysis for the following intersections:
  - a. Corporate Drive at Grafton Road
  - b. International Drive at New Hampshire Avenue / Durham Street
  - c. International Drive / Corporate Drive (for the 2025 Opening Build condition)
- 13. The TIA states that the intersection of International Drive / Corporate Drive is programmed for NHDOT funding for intersection reconstruction and signalization within the State's 10-year plan. Depending on the actual timing of the project, the Applicant should coordinate with PDA and consider measures for the temporary signalization of this intersection. This should be closely coordinated with a potential condition of approval related to the Applicant's responsibility to provide updated traffic data following the occupancy of Building 1 (and other subsequent buildings) and assess the actual delays and queuing for this key gateway intersection.
- 14. The intersection of Greenland Road (Route 33) / Grafton Road, a State-controlled intersection, is currently overcapacity for different traffic movements during the peak hours. Although TEC does not believe that direct physical mitigation is warranted for the Applicant at this intersection, the City and PDA should work with NHDOT to identify long-range improvements to add capacity to this intersection.
- 15. Based on the results of the capacity and warrant analyses listed above, the Applicant should coordinate with PDA and other applicants within Pease Tradeport to develop a fair-share cost assessment for mitigation measures based on the number of new trips.
- 16. Corporate Drive currently accommodates an exclusive left-turn lane for the Residence Inn and Redhook Way that traverses the opening for Goose Bay Drive (site driveway). The

## **Engineering Tomorrow's Solutions Today.**

Proposed Lonza Biologics Expansion Traffic Engineering Peer Review October 3, 2023 Page 4 of 5



Applicant should review the potential for lane use changes within Corporate Drive that may consider an exclusive left-turn lane for Lonza's entering traffic. Any planned improvements should consider an enhanced pedestrian crossing between the Lonza site and the existing COAST bus stop on the opposite side of Corporate Drive in the vicinity of Redhook Way, including a new bus shelter to provide additional accommodations for existing and future transit riders.

- 17. The TIA does not include any parking occupancy data for the existing Lonza site and does not provide an analysis of the proposed parking supply in relation to the projected number of employees in Phase 2 and the Site Master Plan. The supply may indeed be appropriate based on the number of employees on each shift but should be confirmed with a reasonable level of parking analysis in relation to the zoning requirements.
- 18. The Applicant should coordinate with the City, PDA, and COAST to review the current ridership along Bus Route 42 related to the Lonza facility and identify opportunities for coordinated service schedules and potential bus route changes for Route 13 (Dover) and Route 14 (Rochester) to further reduce single-occupancy vehicle trips for several PDA employers.

#### Site Plans

- 19. The site plan currently depicts enclosed truck and trailer staging for deliveries. The Applicant should confirm that they do not require any exterior trailer parking as none is currently shown. TEC recommends that the Board considers a condition that prohibits exterior trailer storage in areas that are not specifically identified on the plan.
- 20. One trash compactor is located near the southerly corner of Building #1. The Applicant should confirm that they do not need additional exterior dumpsters for each building and confirm the truck circulation for any newly proposed locations.
- 21. The plans should include additional details for the signs and striping for the gated access points to the site. This may include additional roadway striping at the end of the Goose Bay Drive cul de sac to delineate the transition to the proposed private way.
- 22. TEC recommends the construction of additional sections of on-site sidewalks within the Phase 2 area to provide a sidewalk circuit for employees that desire to walk during breaks without unnecessarily traversing the busier on-site driveway aisles. This may include a new sidewalk along the northwesterly edge of Goose Bay Drive to connect to the recently constructed sidewalk along Corporate Drive and another segment south of the proposed 3-story utility building (shown in red below).



## **Engineering Tomorrow's Solutions Today.**



Proposed Lonza Biologics Expansion Traffic Engineering Peer Review October 3, 2023 Page 5 of 5

- 23. Pedestrian warning signs should be provided at the major on-site crosswalks that would cross the major routes to and from the existing and proposed parking structures. The crosswalk widths should be noted on the plans and in the construction details.
- 24. The 150-stall surface parking for Phase 2 should include a defined sidewalk connection from the outlying parking aisle to the currently proposed sidewalk. This could be considered within a wider landscape island in the middle of the parking lot as shown below.



25. One proposed bike rack is depicted near the southerly corner of Building #2 in the Site Master Plan. The Applicant should consider additional bike racks at the major entrances to the proposed buildings, such as Building #1 in Phase 2, and covered bicycle parking on the ground floor of the proposed 700-stall parking structure in the site master plan.

Please do not hesitate to contact me if you have any questions concerning our peer review at 603-601-8154. Thank you for your consideration.

Sincerely, TEC, Inc. *"The Engineering Corporation"* 

Kevin R. Dandrade, P.E., PTOE *Principal* 

# Tighe&Bond

210700-026 October 24, 2023

Peter Stith, AICP Planning Manager Department of Planning & Sustainability City Hall, 3rd Floor 1 Junkins Avenue Portsmouth, NH 03801

#### Re: Lonza Biologics Proposed Expansion Traffic Peer Review Response 1

Dear Mr. Stith:

Tighe & Bond has prepared this letter in response to peer review comments on the subject project received from The Engineering Corp (TEC) in a letter dated October 3, 2023. For ease of review, TEC comments are repeated herein in *italics*, followed by our response for each in **bold**. Comment responses are provided herein for comments on the Traffic Impact Study (TIS); responses to site plan comments will be provided under separate cover.

# **Traffic Impact Assessment Comments**

Comments 1 through 5 were informational, and no response is required.

- *Comment 6:* The Project's trip generation calculations for the proposed expansion of 800,000 square feet were based on the estimated 1,020 new employees and a prorated relationship to the traffic that was generated by the 1,139 existing employees as of 2018. This estimate of new trips may be based on the older data for the Lonza site during a time when they had a predominant in-person work environment. The T&B trip projections however fall well below the calculations based on the ITE Trip Generation Manual, 11th Edition, Land Use Codes (LUCs) 110 (General Light Industrial) and 140 (Manufacturing) when using floor area as the independent variable. This may be the result of the Applicant's proactive management of the employee shift times. If the shift times overlap with the actual peak hours for the adjacent street system, the Applicant's traffic impacts will be greater. The Planning Board should consider a condition of approval that mandates that the Applicant maintains shift times that do not overlap with the documented morning and evening peak hours for Corporate Drive and International Drive unless otherwise approved by the Board after considering updated traffic data and trip generation information. TEC further recommends that the Board request a daily traffic count for the proposed site access point to better understand the hourly distribution of traffic over the course of several weekdays.
- Response: Site-specific data was utilized in the trip generation estimate in lieu of ITE data based on the specialized use of the proposed building. It is generally desirable to utilize site-specific data if available. It is important to note that Lonza continues to operate under a hybrid work policy, averaging over 60% employees working in the office on work days between June 2023 and October 2023. The trip generation estimate was based on existing employee data assuming

a fully occupied building and did not account for the current hybrid work policy. In addition, no trip reduction credit was taken for future employees working from home. As noted in the Traffic Study, "trip generation is based on the peak hour of the generator and applied to the peak hour of the study area network, which also results in a conservative approach". Based on these assumptions, the proposed trip generation represents a conservative estimate of predicted site trips.

Employee parking garage badge swipes obtained from October 10 to 12, 2023, indicate approximately half of existing employees arrive prior to the current peak hour, which begins at 7:15 AM. Therefore, while there may be some amount of overlap between proposed arriving site trips and the network peak hour, much of the site traffic is estimated to arrive prior to the 7:00 to 9:00 AM period.

- Comment 7: The TIA included a distribution analysis for the new trips that was based on the zip code data for the current Lonza employees' place of residence. Given the significant number of new employees, TEC recommends that the Applicant perform a supplemental sensitivity analysis using U.S. Census data and limited travel time runs to confirm the percentage of traffic that is expected to use each gateway to the Pease Tradeport.
- Response: Employee zip code data was used as a basis for the trip distribution following a request by the City of Portsmouth Technical Advisory Committee (TAC) during the previous Lonza Master Planning effort. While site-specific employee zip code data may provide a more realistic estimate of travel patterns, U.S. Census data was also reviewed as part of a sensitivity analysis. The comparison shows minor deviations in estimated travel patterns with a slightly higher proportion of traffic (80%) traveling toward Gosling Road and the Spaulding Turnpike interchange, amounting to an increase of 6 trips during the weekday morning peak hour and 14 trips during the weekday afternoon peak hour. The minor changes in traffic volumes are not expected to significantly impact traffic operations beyond what was presented in the TIS.

Travel times to/ from the major interchanges (I-95 and Spaulding Turnpike) were accounted for when developing the trip distribution. Based on existing travel patterns, it is anticipated that the majority of site traffic from the south will access the site via Spaulding Turnpike. However, the regional trip distribution does recognize 15% of traffic to/ from the south on I-95 will utilize Route 33, while 10% will utilize Spaulding Turnpike.

- Comment 9: Although the projections may be conservative, TEC generally concurs with the results of the capacity and queue analysis provided as part of the TIA utilizing Highway Capacity Manual (HCM) 6th Edition methodology for the study area intersections. The 2035 Build condition shows some concerning levels of service with high delays for certain traffic movements that are acutely related to the commuter traffic into Pease Tradeport in the morning and departing in the late afternoon and evening peak hours.
- **Response:** No response required.

- *Comment 10:* The Applicant should provide a queue analysis for the proposed driveway gate system to ensure that entering traffic will not queue onto Corporate Drive.
- Response: The proposed gate system location was determined based on a queueing analysis at the proposed location that was previously conducted during the master planning effort. Based on the analysis, a third reversible lane was added to accommodate queues. It is important to note that this analysis was based on a higher number of proposed employees than what is currently proposed. Therefore, the available storage along Goose Bay Drive between Corporate Drive and the proposed gate system is in excess of what is required for the proposed future trips.
- *Comment 11:* The TIA documents substantial delays for the exiting employee traffic during the evening peak hour within the single departure lane. The Applicant should consider separate left- and right-turn lanes at the driveway intersection with Corporate Drive.
- Response: The vehicle delays estimated on Goose Bay Drive during the weekday afternoon peak hour are largely due to the high volume of left-turning vehicles onto Corporate Drive. A sensitivity analysis indicates long delays will continue even if dedicated left- and right-turn lanes are added. In addition, any widening of Goose Bay Drive is not possible due to the previously capped soils on the northeast side of the roadway as well as the proximity of the recently constructed parking lot adjacent to the existing parking garage.
- *Comment 12:* TEC recommends that the Applicant coordinate with PDA to perform supplemental all-way stop control (AWSC) and traffic signal warrant analysis for the following intersections:
  - a. Corporate Drive at Grafton Road
  - b. International Drive at New Hampshire Avenue / Durham Street
  - c. International Drive / Corporate Drive (for the 2025 Opening Build condition)

#### **Response:** Please see enclosed PDA letter.

Comment 13: The TIA states that the intersection of International Drive / Corporate Drive is programmed for NHDOT funding for intersection reconstruction and signalization within the State's 10-year plan. Depending on the actual timing of the project, the Applicant should coordinate with PDA and consider measures for the temporary signalization of this intersection. This should be closely coordinated with a potential condition of approval related to the Applicant's responsibility to provide updated traffic data following the occupancy of Building 1 (and other subsequent buildings) and assess the actual delays and queuing for this key gateway intersection.

#### **Response:** Please see enclosed PDA letter.

Comment 14: The intersection of Greenland Road (Route 33) / Grafton Road, a Statecontrolled intersection, is currently overcapacity for different traffic movements during the peak hours. Although TEC does not believe that direct physical mitigation is warranted for the Applicant at this intersection, the City and PDA should work with NHDOT to identify long-range improvements to add capacity to this intersection.

#### **Response:** No response required. Please see enclosed PDA letter.

*Comment 15:* Based on the results of the capacity and warrant analyses listed above, the Applicant should coordinate with PDA and other applicants within Pease Tradeport to develop a fair-share cost assessment for mitigation measures based on the number of new trips.

#### Response: Please see enclosed PDA letter.

- Comment 16: Corporate Drive currently accommodates an exclusive left-turn lane for the Residence Inn and Redhook Way that traverses the opening for Goose Bay Drive (site driveway). The Applicant should review the potential for lane use changes within Corporate Drive that may consider an exclusive left-turn lane for Lonza's entering traffic. Any planned improvements should consider an enhanced pedestrian crossing between the Lonza site and the existing COAST bus stop on the opposite side of Corporate Drive in the vicinity of Redhook Way, including a new bus shelter to provide additional accommodations for existing and future transit riders.
- Response: Based on the trip distribution, it is anticipated the majority of site generated traffic will enter Goose Bay Drive from the west, therefore a westbound exclusive left-turn lane would not be warranted. In addition, the exclusive eastbound left-turn lane is necessary to provide access to the Residence Inn and Red Hook Way. The Applicant will be adding a new sidewalk connection between the Lonza site and the existing bus stop location on Corporate Drive to improve access for transit users.
- Comment 17: The TIA does not include any parking occupancy data for the existing Lonza site and does not provide an analysis of the proposed parking supply in relation to the projected number of employees in Phase 2 and the Site Master Plan. The supply may indeed be appropriate based on the number of employees on each shift but should be confirmed with a reasonable level of parking analysis in relation to the zoning requirements.
- Response: The parking requirement for this site is 2 spaces per 3 employees during the largest shift based on the current PDA Land Use Controls. Based on this requirement and the existing and proposed employee counts, 1,326 spaces are required. 1,501 spaces will be provided as part of the project (801 existing parking spaces plus 700 proposed garage parking spaces) as indicated on Sheet C-104. The parking requirement for Phase 2 of the project is 880 spaces where 957 spaces will be provided (801 existing parking spaces plus 150 surface parking spaces) as indicated on Sheet C-164.
- Comment 18: The Applicant should coordinate with the City, PDA, and COAST to review the current ridership along Bus Route 42 related to the Lonza facility and identify opportunities for coordinated service schedules and potential bus route changes for Route 13 (Dover) and Route 14 (Rochester) to further reduce single-occupancy vehicle trips for several PDA employers.
- Response: The Applicant does not believe that the burden of coordinating with COAST to reconfigure their service routes or schedule should be placed on a single end user or tied to a specific planning approval.

This would need to be a larger discussion involving the PDA and multiple other businesses at the Tradeport. However, the applicant is willing to be a participant in that discussion with COAST.

# **Site Plan Comments**

- Comment 19: The site plan currently depicts enclosed truck and trailer staging for deliveries. The Applicant should confirm that they do not require any exterior trailer parking as none is currently shown. TEC recommends that the Board considers a condition that prohibits exterior trailer storage in areas that are not specifically identified on the plan.
- **Response:** The Applicant does not require any exterior trailer parking. The loading docks will be used for active loading and unloading.
- Comment 20: One trash compactor is located near the southerly corner of Building #1. The Applicant should confirm that they do not need additional exterior dumpsters for each building and confirm the truck circulation for any newly proposed locations.

# Response: A second trash compactor has been added to the site adjacent to the Utility Building. Truck turning was studied to confirm access.

- *Comment 21:* The plans should include additional details for the signs and striping for the gated access points to the site. This may include additional roadway striping at the end of the Goose Bay Drive cul-de-sac to delineate the transition to the proposed private way.
- Response: The site plans include proposed striping and signage for traffic circulation, including directional signage for truck traffic and not a through street signage prior to the gated/fenced entrances to the site. A turnaround area has been located prior to the gates on the northern entrance and the cul-de-sac will allow for vehicles to turn around prior to the security gate at the southern entrance. The applicant is open to reviewing and considering any other specific recommendations.
- Comment 22: TEC recommends the construction of additional sections of on-site sidewalks within the Phase 2 area to provide a sidewalk circuit for employees that desire to walk during breaks without unnecessarily traversing the busier onsite driveway aisles. This may include a new sidewalk along the northwesterly edge of Goose Bay Drive to connect to the recently constructed sidewalk along Corporate Drive and another segment south of the proposed 3-story utility building (shown in red below).
- Response: The area to the west of the utility building is designed to be a multipurpose area to allow for pedestrian circulation and emergency fire access between the two buildings. A sidewalk connection along Goose Bay Drive to Corporate Drive was not included in the design for a couple of reasons. As that is the main entrance for all truck traffic to the site the applicant does not want to encourage their employees to be walking around an active delivery area. Additionally, the gated access at the cul-de-sac is a sliding chain link gate that does not have pedestrian access. For the current phase of work there will be full pedestrian access on the northern half of the site, and future phases of work will provide

access to Corporate Drive away from the truck delivery access route.

*Comment 23:* Pedestrian warning signs should be provided at the major on-site crosswalks that would cross the major routes to and from the existing and proposed parking structures. The crosswalk widths should be noted on the plans and in the construction details.

Response: Pedestrian warning signs will be added to the plans as recommended. Crosswalk Striping detail will be revised to note an 8' width.

- Comment 24: The 150-stall surface parking for Phase 2 should include a defined sidewalk connection from the outlying parking aisle to the currently proposed sidewalk. This could be considered within a wider landscape island in the middle of the parking lot as shown below.
- Response: A central sidewalk will be added through the 150 space parking area connecting to the currently proposed sidewalk.
- Comment 25: One proposed bike rack is depicted near the southerly corner of Building #2 in the Site Master Plan. The Applicant should consider additional bike racks at the major entrances to the proposed buildings, such as Building #1 in Phase 2, and covered bicycle parking on the ground floor of the proposed 700-stall parking structure in the site master plan.
- Response: The is a proposed bike rack near the entrance of Building 1 and near the southern corner of building 2. Adding space for bike storage with the future proposed parking garage will be considered once the design of that structure begins.

Please contact us if you have any questions or comments on the responses above.

Sincerely,

#### TIGHE & BOND, INC.

In 2 Tues

Greg Lucas, PE (MA, NH), PTOE, RSP1 Senior Project Manager

Neil A. Hansen, PE Project Manager

Enclosures: PDA TEC Peer Review Response Letter, dated October 24, 2023

Copy: Lonza Pease Development Authority

J:\L\L0700 Lonza Biologics Expansion was 1576F\026_Project Albacore\Report_Evaluations\Traffic Study\Peer Review 1 (October 2023)\2023-10-24 Traffic Peer Review Response Letter 1.docx





October 24, 2023

Peter Stith, AICP Planning Manager Department of Planning & Sustainability City of Portsmouth, NH 1 Junkins Avenue Portsmouth, NH 03801

Re: Lonza Phase 2 Planning Board Application TEC Peer Review of Traffic Impact Assessment

Dear Mr. Stith:

The Engineering Corp (TEC) peer review of the proposed Lonza Biologics Phase 2 Expansion Traffic Impact Assessment (TIA) dated October 3, 2023 has recommended the applicant coordinate with Pease Development Authority (PDA) on a number of transportation related topics. I am writing to provide information that will hopefully provide some clarity to assist the Planning Board with making the most informed recommendation to the PDA Board regarding this application. The specific comments are addressed as follows:

TEC Comment # 12: TEC recommends that the applicant coordinate with PDA to perform supplemental allway stop control (AWSC) and traffic signal warrant analysis for the following intersections:

- a. Corporate Drive at Grafton Road
  - b. International Drive at New Hampshire Avenue / Durham Street
  - c. International Drive / Corporate Drive (for the 2025 Opening Build condition)

PDA Response: Vanasse Hagen Brustlin, Inc. (VHB), PDA's on call transportation engineer, performed vehicle counts in 2016, as a supplement to the Pease Transportation Master Plan Update of 2010, when it was determined that the intersections of Corporate Dr/Grafton Rd and International Dr/New Hampshire Ave/Durham St met the warrants for a signal. The International Dr/Corporate Dr/Manchester Sq intersection did not meet the signal warrant at that time. Given traffic has yet to return to pre-pandemic levels, the PDA remains confident in that analysis, but notes that the intersection in question is currently under an AWSC.

TEC Comment # 13: The TIA states that the intersection of International Drive / Corporate Drive is programmed for NHDOT funding for intersection reconstruction and signalization within the State's 10-year plan. Depending on the actual timing of the project, the applicant should coordinate with PDA and consider measures for the temporary signalization of this intersection. This should be closely coordinated with a potential condition of approval related to the Applicants responsibility to provide updated traffic data following the occupancy of Building 1 (and other subsequent buildings) and assess the actual delays and queuing for this key gateway intersection.

PDA Response: As stated in the response to comment #12, the International Dr/Corporate Dr/Manchester Sq intersection did not meet the signal warrant in the analysis performed in 2016. Since that time, the pandemic has reduced traffic on the Tradeport due to remote work policies instituted by employers located on the Tradeport. In addition, the 2023 peak hour volumes at this intersection remain below the 2016 volumes. As such, a signal is unnecessary until it is warranted based on the data.

TEC comment # 14: The intersection of Greenland Road (Route 33) / Grafton Road, a State-controlled intersection, is currently overcapacity for different traffic movements during the peak hours. Although TEC does not believe that direct physical mitigation is warranted for the Applicant at this intersection, the City and PDA should work with NHDOT to identify long-range Improvements to add capacity to this intersection.

PDA response: As stated, this intersection is a state-controlled intersection under the sole jurisdiction of the NHDOT. As such, PDA has no jurisdiction with respect to improvements at this intersection. To the extent PDA is able share Tradeport data or information helpful to the City of Portsmouth or NHDOT regarding this intersection, it will do so. Furthermore, it is important to note that traffic on Route 33 is related to many factors. According to the TIA, of the 1439 vehicles that were counted passing through this intersection, heading north or east bound, during the weekday morning peak hour, only 337, or less than 25%, turned into Pease. 1,102 vehicles continued through the intersection towards I-95 North and the City of Portsmouth.

TEC Comment # 15: Based on the results of the capacity and warrant analyses listed above, the applicant should coordinate with PDA and other applicants within Pease Tradeport to develop a fair-share cost assessment for mitigation measures based on the number of new trips.

PDA response: The PDA Board of Directors, as the governing body of the PDA under state law, has considered this policy recommendation in the past, but has decided to fund intersection improvements on the Tradeport itself. Based on traffic studies it has undertaken, PDA has currently secured three grants though NHDOT for intersection improvements at New Hampshire Ave/Pease Blvd, Corporate Dr/International Dr/Manchester Sq, and Grafton Rd / Pease Golf Course. Furthermore, PDA continues to plan for improvements at four additional intersections VHB has identified as priorities in PDA's Capital Improvement Plan.

Sincerely,

Michael R. Mates, P.E. Director of Engineering

cc: Peter Britz, City of Portsmouth (VIA Email) Neil Hanson, Tighe & Bond, Inc. (VIA Email) Luke St. Pierre, Lonza, (VIA Email)

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November 8, 2023

Peter M. Stith, AICP Planning Manager City of Portsmouth Planning & Sustainability Department 1 Junkins Avenue Portsmouth, NH 03801

Ref. T1399

Re: Proposed Lonza Biologics Expansion Traffic Engineering Peer Review #2

Dear Mr. Stith:

On behalf of the City of Portsmouth, TEC, Inc. (TEC) reviewed follow-up documentation as part of our firm's traffic engineering peer review for the proposed expansion of the Lonza Biologics, Inc. ("the Applicant") manufacturing campus along Corporate Drive in Portsmouth ("the Project"). TEC reviewed the following document as part of our follow-up review:

• Lonza Biologics Proposed Expansion – Traffic Peer Review Response 1; prepared by Tighe & Bond and dated October 24, 2023.

TEC completed a review of the Applicant's documents on behalf of the City of Portsmouth and provides the following transportation-related considerations as part of our review.

#### Traffic Impact Assessment

The Applicant's team provided helpful responses to our prior written comments related to the preparation of future traffic volumes in Pease Tradeport and its access points, both for background traffic volumes and the methodology for the estimate of new trips to be generated by the proposed expansion. They also provided a letter from the Pease International Development Authority (PDA) regarding their opinion of the current and future traffic operating conditions within their jurisdiction with references to their 2010 Master Plan Update.

TEC continues to encourage the Applicant and PDA, as the entity with jurisdiction over the roadway infrastructure, to assess the post-COVID and/or post-occupancy traffic data collection, traffic signal warrant analyses, and capacity analyses for the following intersections following substantial occupancy (>75%) of the Phase 2 building:

- International Drive / Corporate Drive / Manchester Square
- International Drive / New Hampshire Avenue / Durham Street
- Corporate Drive / Grafton Road

We believe this will provide more accurate information about the PDA's future transportation needs and the timing and phasing of their planned infrastructure improvements as part of any updated PDA Master Plan documents.

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Proposed Lonza Biologics Expansion Traffic Engineering Peer Review #2 November 8, 2023 Page 2 of 2



#### Site Plans

The Applicant and their team responded to TEC's comments to indicate their on-site operational needs and preferences related to traffic, pedestrian, loading, and parking accommodations. TEC recommends that the Planning Department staff review plan updates to ensure that TEC's comments 20 through 24 have been reasonably incorporated into the Applicant's next site plan revision. See Tighe & Bond's letter for the Applicant's detailed responses.

Please do not hesitate to contact me if you have any questions concerning our peer review at 603-601-8154. Thank you for your consideration.

Sincerely, TEC, Inc. *"The Engineering Corporation"* 

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Kevin R. Dandrade, P.E., PTOE *Principal*