

Record Owner: AMIR H. NASHAT & CARMENT M. BARNES 100 BOULDER CENTER **NEWTON CENTRE, MA 02459** BK 43058 / PG 29

Location: PROPERTY SBL: 81019 0001 100 BOULDER ROAD NEWTON CENTRE, MA

RJO'CONNELL

& ASSOCIATES, INC.

CIVIL ENGINEERS, SURVEYORS & LAND PLANNERS

80 MONTVALE AVENUE, SUITE 201 STONEHAM, MA 02180
PHONE: 781.279.0180 RJOCONNELL.COM

AMIR H. NASHAT CARMEN M. BARNES

> 100 BOULDER ROAD **NEWTON CENTRE, MA 02459**

100 BOULDER ROAD

NEWTON, MA

THIS PLAN IS THE RESULT OF AN ON THE GROUND SURVEY PERFORMED BETWEEN 01/04/2021 AND 02/03/2021.

PROFESSIONAL LAND SURVEYOR FOR RJ O'CONNELL & ASSOCIATES, INC

DRAWN BY: REVIEWED BY: SCALE:

FIELD CREW: FIELD BOOK:

DRAWING NAME: **EXISTING**

RJK / CMM

12/21/2021

FIELD BOOK 37 / PG 74

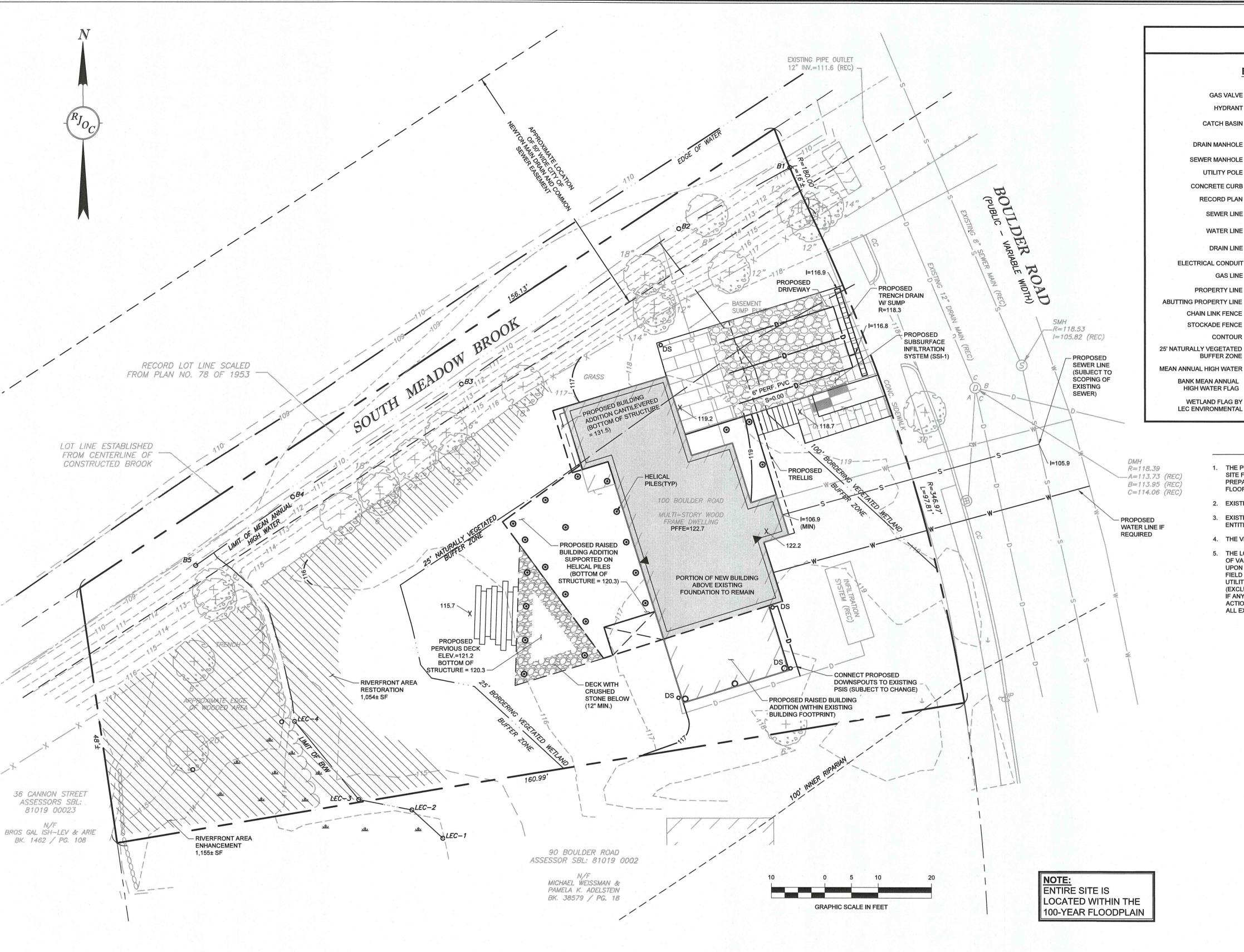
CONDITIONS PLAN

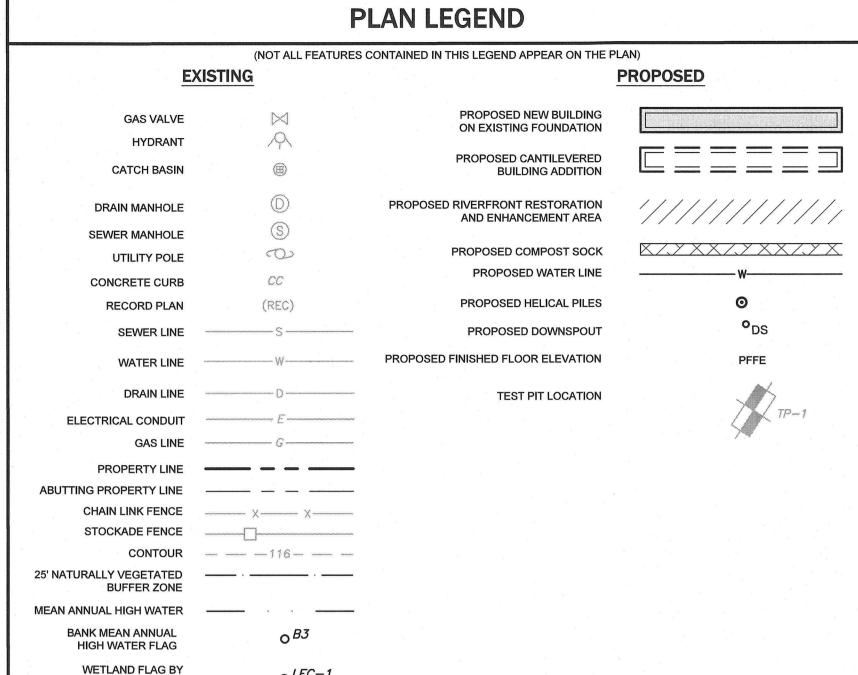
EX-1

PROJECT NUMBER:

20150

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NOTES

- 1. THE PURPOSE OF THIS PLAN IS TO SHOW THE RELATIVE LOCATION AND DIMENSION OF THE PROPOSED BUILDING AS WELL AS SITE FEATURES TO BE CONSTRUCTED ON SITE. THE DIMENSIONS OF THE PROPOSED BUILDING ARE BASED UPON PLANS PREPARED BY MARYANN THOMPSON ARCHITECTS ENTITLED "NEWTON ZERO ENERGY HOUSE BASEMENT PLAN" AND "FIRST FLOOR PLAN" DATED 11/18/2021
- 2. EXISTING UTILITIES SHOWN HEREON HAVE BEEN COMPILED FROM RECORD PLANS PROVIDED BY THE CITY OF NEWTON.
- 3. EXISTING CONDITIONS DEPICTED ON THIS PLAN ARE BASED UPON A PLAN PREPARED BY RJ O'CONNELL & ASSOCIATES, INC. ENTITLED "EXISTING CONDITIONS SURVEY, 100 BOULDER ROAD, NEWTON, MASSACHUSETTS" DATED 12/21/2021.
- 4. THE VERTICAL DATUM IS CITY OF NEWTON BASE.
- 5. THE LOCATION AND ELEVATIONS OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND PUBLIC AGENCIES AND ARE APPROXIMATE ONLY. THIS INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE LOCATION OF UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, GOVERNING PERMITTING AUTHORITY AND "DIG SAFE" AT 1-888-344-7233 AT LEAST SEVENTY-TWO (72) HOURS (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES. IF ANY DISCREPANCIES OR CONFLICTS ARE DISCOVERED, THE ENGINEER SHALL BE CONTACTED AND APPROPRIATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS

ONSITE IMPERVIOUS AREA					
DESCRIPTION EXISTING (SF) PROPOSED (SF)					
BUILDING	1,349 ±	1,920 ±			
DECK(S) AND ASSOC. STAIRS	285 ±	80 ± (a)			
FRONT PORCH, FRONT STOOP, AND FRONT STAIRS	31 ±	145 ±			
DRIVEWAY	809 ±	675 ±			
WALKWAYS	188 ±	85 ±			
TOTAL	2,662 ±	2,905 ±			

a) PROPOSED DECK IS TO BE CONSTRUCTED OVER A BED OF CRUSHED STONE AND SHALL BE CONSIDERED PERVIOUS

100-YEAR FLOODPLAIN		
DESCRIPTION	ELEVATION	
PER FEMA (NAVD88)	113.7±	
PER CITY OF NEWTON BASE	120.2±	

	SOILS INFOR	RMATION
TEST PITS CONDUCTED	BY APRIL FERRARO, SE #2878 OF RJ	O'CONNELL & ASSOCIATES, INC. ON 12/20/2021.
TEST PIT TP-1 ELEV. = 118.5 ±		
<u>DEPTH</u> 0 - 23"	SOIL HORIZON/LAYER	SOIL TEXTURE FILL/ LOAM
23 - 41"	В	SANDY LOAM
41 - 70"	C1	SANDY LOAM
70 - 86"	C2	SILTY LOAM

2 133.8

- ESHGW @ 69" (ELEV. = 112.84)

DIG SAFE

282.3

1.5

BEFORE YOU DIG
CALL 811



	DATE
	DA
	NO
	REVISION
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021	
12/21/2021	DATE
TON ENGINEERING	
N NEW COMM	NO NO
MENTS FROM	REVISION
ADDRESSED COMMENTS FROM NEWTON ENGINEERING AND CONSERVATION COMMISSION	REVIS

PREPARED B

RJO'CONNELL & ASSOCIATES, INC. CIVIL ENGINEERS, SURVEYORS & LAND PLANNERS

80 MONTVALE AVENUE, SUITE 201 STONEHAM, MA 02180 PHONE: 781.279.0180 RJOCONNELL.COM

EPARED FOR:

AMIR H. NASHAT CARMEN M. BARNES

100 BOULDER ROAD NEWTON CENTRE, MA 02459

ROJECT NAME:

100 BOULDER ROAD

NEWTON, MA



CMM
CMI
BW
1" = 10
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TE: 11/0
AWING NAME:

GRADING, DRAINAGE AND UTILITY PLAN

DRAWING NUMBER:

MING NUMBER:

PROJECT NUMBER: 20150

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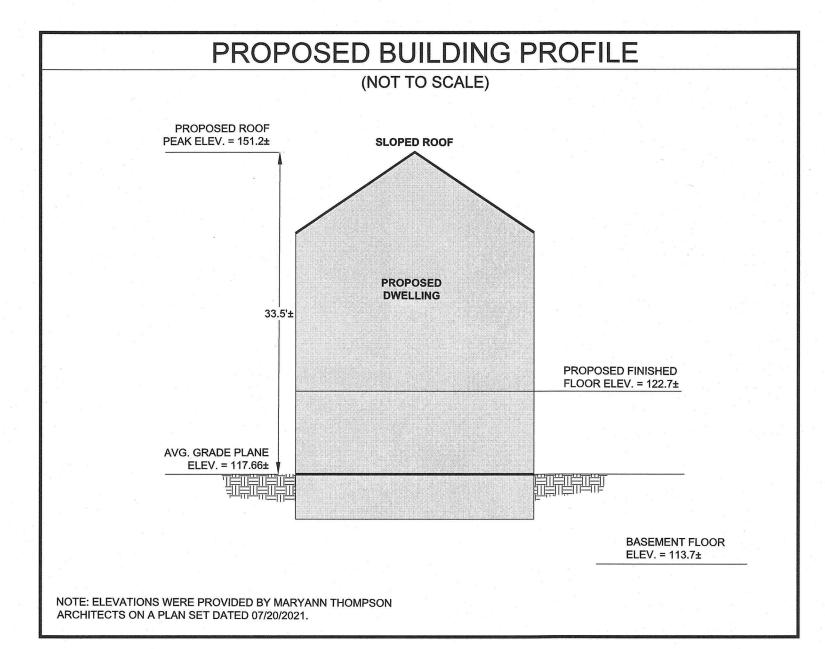
Elevation	Existing Volumes			
LIEVALIDII	Area Sq. Ft.	Avg. Sq. Ft.	Volume Cu. Ft	Cumulative
115	3,104		Ö	
		4,201		
116	5,298		4,201	4,201
	ensonerio e virgini a comprisante de	6,505		
117	7,712		6,505	10,706
		8,366		
118	9,020		8,366	19,072
There resises somewhere M. C.		9,924		
119	10,829		9,924	28,996
A STATE OF THE STA		11,228		
120	11,627	- Co	11,228	40,224
		11,635		
120.2	11,642		2,327	42,551
CLIBA			17 551	

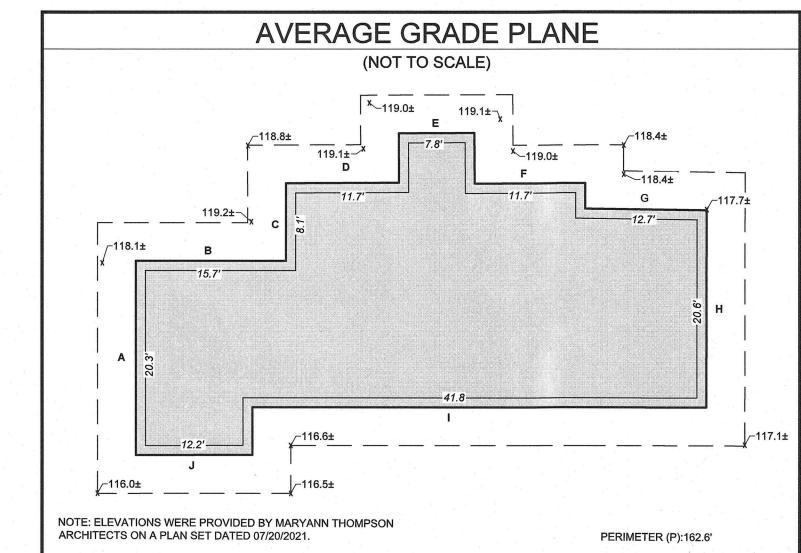
Elevation -	Proposed Volumes			
	Area Sq. Ft.	Avg. Sq. Ft.	Volume Cu_Ft	Cumulative
115	3,104		0	
alektakala * 1 /k * aacaa daa x taa / k	s una estro que non en espesió (4). Se non en estro en estro en estro de la composició (4).	4,204		ld fine of a value value (v.). Color for forested on we see
116	5,303		4,204	4,204
		6,641		
117	7,978		5,641	10,849
		8,502		
118	9,026		8,502	19,34
		10,258		
119	11,490		10,258	29,609
		11,569		
120	11,648		11,569	41,174
		11,648		
120.2	11,648		2,330	43,504
SUM		a de	43,504	

	Cumulative Volumes	
Elevation	Fill Volume of New Structures (CF)	Increase in Flood Storage On-Site (CF)
<115	(0.0)	0.0
115-116	-0.2	2.8
116-117	-2.2	133.8
117-118	-50.1	85.9
118-119	-51.7	282.3
119-120	-52.7	288.3
120-120.2	÷1.5	1.5
SUM	-158	795

NOTES

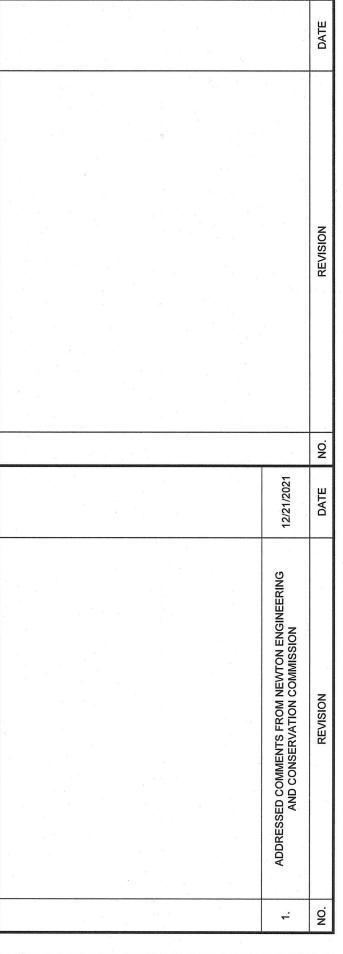
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- 2. SEE PLANS PREPARED BY LEC ENVIRONMENTAL FOR DETAILS OF THE RIVERFRONT RESTORATION AND
- 3. EXISTING CONDITIONS DEPICTED ON THIS PLAN ARE BASED UPON A PLAN PREPARED BY RJ O'CONNELL & ASSOCIATES, INC. ENTITLED "EXISTING CONDITIONS SURVEY, 100 BOULDER ROAD, NEWTON, MASSACHUSETTS" DATED 12/21/2021.
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Α\	/ERAGE GR	ADE PLANE	CALCULATI	ONS
SEGMENT	E1 .	E2	L L	(E1 + E2)/2 x L P
Α	116.0±	118.1±	20.3'	14.60
В	118.1±	119.2±	15.7'	11.45
С	119.2±	118.8±	8.1'	5.92
D	118.8±	119.1	11.7	8.55
E .	119.0±	119.1±	7.8	5.71
F , ,	119.0±	118.4±	11.7	8.54
G	118.4±	117.7±	12.7'	9.21
н	117.7±	117.1±	20.6'	14.86
1	117.1±	116.6±	41.8	30.10
J.	116.5±	116.0±	12.2'	8.72
SUM	a a a a a a a a a a a a a a a a a a a		162.6	117.66





PREPARED BY:

RJO'CONNELL & ASSOCIATES, INC. **CIVIL ENGINEERS, SURVEYORS & LAND PLANNERS**

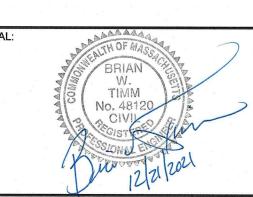
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AMIR H. NASHAT CARMEN M. BARNES

100 BOULDER ROAD NEWTON CENTRE, MA 02459

100 BOULDER ROAD

NEWTON, MA



	101	
DESIGNED BY:		CMM
DRAWN BY:		CMM
REVIEWED BY:		BWT
SCALE:		1" = 10'
DATE:	2	11/01/2021
	and the first of the second of	CONTROL OF THE CONTRO

LAYOUT, DEMO AND EROSION CONTROL PLAN

DEMO-1

BEFORE YOU DIG CALL 811

PROJECT NUMBER: 20150

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