

CITY OF CAMBRIDGE

BOARD OF ZONING APPEAL

831 Massachusetts Avenue, Cambridge MA 02/189 SEP | 3 PM 3: 54

617-349-6100

CAMBARIA (LA CAMBALA) BARISARDEL MASSACIUMENTS

BZA Application Form

BZA Number: 140869

General Information

The undersigned hereby petitions the	Board of Zoning Ap	peal for the following	ng:
Special Permit:	Variance: X	-	Appeal:
PETITIONER: Fawwaz Habbal			
PETITIONER'S ADDRESS: 82 Larch	Road, Cambridge,	MA 02138	
LOCATION OF PROPERTY: 82 Larc	<u>h Rd , Cambridge,</u>	MA	
TYPE OF OCCUPANCY: garage		ZONING DISTRIC	T: <u>Residence B Zone</u>
REASON FOR PETITION:			
/New Structure/			

DESCRIPTION OF PETITIONER'S PROPOSAL:

According to the BZA, the proposed garage needs to be 7.5ft from the property line. 10ft from the primary structure and 15 ft in height. The current proposed plans would require relief from the BZA regulation.

The old garage was built in 1928 and was attached to the primary and it is 6.4 ft set back from the property line. The old garage area is 11.5 ft x 19 ft, and there is a room on top of it.

The new garage has no room on top of it. The proposed new garage has a side that is 4ft from the property line, and it is 4ft from the primary structure and 15 ft in height. The new area is 13 ft x 25 ft. The overall area does not exceed the permitted area.

There is a hardship to enter the old garage; the width is too narrow to allow for my SUV to park there.

SECTIONS OF ZONING ORDINANCE CITED:

Article: 5.000 Section: 5.31 (Table of Dimensional Requirements).

Article: 5.000 Section: 5.21.H (Accessory Structure Setbacks).

Article: 10.000 Section: 10.30 (Variance).

Article: 8.000 Section: 8.22.3 (Non-Conforming Structure).

Original Signature(s):

Fawwaz Hall

(Petitioner (s) / Owner)

Fawny 2 HABBAL

(Print Name)

Address:

Tel. No.

Date: Sept. 8, 2021

617-721-7289

E-Mail Address:

Habbalf@gmail.com

BZA APPLICATION FORM - OWNERSHIP INFORMATION

To be completed by OWNER, signed before a notary and returned to The Secretary of the Board of Zoning Appeals.

I/Wex Fawwaz Habbal
(OWNER) 82 Larch Road, Cambridge, MA Address:
State that I/We own the property located at 82 Larch Road, Cambridge, MA, which is the subject of this zoning application.
The record title of this property is in the name of Fawwaz Habbal
*Pursuant to a deed of duly recorded in the date $\frac{7/16/2019}{174}$, Middlesex South County Registry of Deeds at Book $\frac{72933}{174}$, page $\frac{174}{1999}$; or
Middlesex Registry District of Land Court, Certificate No
Book
Faw Dellal SIGNATURE BY LAND OWNER OR AUTHORIZED TRUSTEE, OFFICER OR AGENT* *Written evidence of Agent's standing to represent petitioner may be requested.
Commonwealth of Massachusetts, County of <u>Middlesex</u>
The above-name Fawwaz Habbal personally appeared before me,
The above-name Fawwaz Habbal personally appeared before me, this 5 of May, 2021, and made oath that the above statement is true.
My commission expires // 1/2025 (Notary Seal) Commonwealth of Massachus My Commission Expires November 14, 2025

• If ownership is not shown in recorded deed, e.g. if by court order, recent deed, or inheritance, please include documentation.

BZA APPLICATION FORM - OWNERSHIP INFORMATION

To be completed by OMNER, signed before a notary and returned to The Secretary of the Board of Zoning Appeals.

I/Me Fawwaz HABBAL
Address: 82 Larch Read, Cambridge, MA 02138
State that I/We own the property located at 82 Lavoh Road, Cambride, MAO2138 which is the subject of this zoning application.
The record title of this property is in the name of
*Pursuant to a deed of duly recorded in the date July 16, 2019, Middlesex South County Registry of Deeds at Book 72933, Page 0174; or Middlesex Registry District of Land Court, Certificate No.
BookPage
Faw. Collar SIGNATURE BY LAND OWNER OR ASSESSMENT TRUSTED, OFFICER OR ASSESSMENT ** *Written evidence of Agent's standing to represent petitioner may be requested.
Commonwealth of Massachusetts, County of Middlese
The above name 1-7/10/17/1-10/19/11
My commission expires 0/28-202 (Notary Seal). THERESA KAUFMAN Notary Public Commonwealth of Massachusetts My Commission Expires January 28, 2022

 If ownership is not shown in recorded deed, e.g. if by court order, recent deed, or inheritance, please include documentation.





QUITCLAIM DEED



Bk: 72933 Pg: 174 Doc: DEED Page: 1 of 2 07/16/2019 02:11 PM

1, Florence C. Ladd, a single woman, of Cambridge, MA

for consideration paid and in full consideration of Two Million Two Hundred Thousand and 00/100 Dollars (\$2,200,000.00)

grant to Fawwaz Habbal, now of 82 Larch Road, Cambridge, MA

with quitclaim covenants:

A certain parcel of land, with the buildings thereon, being now 82 Larch Road in said Cambridge, being shown as Lots C and D on Plan of Land in Cambridge, said plan entitled "Plan of Premises in Cambridge surveyed for R.C. Grovostein, Being a Relotting of Plan dated Nov. 1920", by W.A. Mason & Son, Surveyors, dated February 1921, and recorded with Middlesex South District Deeds in Book of Plans 294 Plan 42, and being further bounded and described, as shown on said plan, as follows:

NORTHEASTERLY:

by said Larch Road, 90 feet;

SOUTHEASTERLY:

by Lot B, 51.94 feet;

SOUTHWESTERLY:

by said Lot B and land of owners unknown in two courses respectively

20.22 feet and 78.41 feet; and

NORTHWESTERLY:

by land of owners unknown 95.33 feet.

Containing 6,822 square feet of land more or less

For title reference see deed of Florence C. Ladd, dated August 1, 1972, recorded in said Registry of Deeds in Book 12257, Page 218.

Grantor hereby releases all rights of homestead in said premises and hereby declares under the pains and penalties of perjury that no person is entitled to claim the benefit of an existing estate of homestead in the premises

MASSACHUSETTS EXCISE TAX
Southern Middlesex District ROD # 001
Date: 074502019 02:11 PM

Ctnt# 803942 27805 Doc# 00101062 Fee: \$10,032.00 Cons: \$2,200.000.00

Gregg, Hunt, Ahern & Embry One Cranberry Hill Suite 304 Lexington, MA 02421 Under the Pains and Penalties of Perjury, witness my signature this

Day of 76 June 2019

Florence C. Ladd

COMMONWEALTH OF MASSACHUSETTS

County of: A libe

l

•

On this day of ______, 2019, before me, the undersigned notary public, personally appeared Florence C. Ladd, proved to me through satisfactory evidence of identification, which were ______ to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of her knowledge and belief and acknowledged to me that she signed it voluntarily for its stated purpose.

Notary Pub

My Complesion Eap

A)

B)

BZA Application Form

SUPPORTING STATEMENT FOR A VARIANCE

EACH OF THE FOLLOWING REQUIREMENTS FOR A VARIANCE MUST BE ESTABLISHED AND SET FORTH IN COMPLETE DETAIL BY THE APPLICANT IN ACCORDANCE WITH MGL 40A, SECTION 10.

A literal enforcement of the provisions of this Ordinance would involve a substantial hardship, financial or otherwise, to the petitioner or appellant for the following reasons:

The literal application of the Ordinance would prevent the proposed enlargement of the garage to allow its use for the parking of the Petitioner's automobile and additional storage that a one-car garage affords. The existing garage, having been built at a time when passenger automobiles were much smaller in size, does not allow the Petitioner a usable garage space for his automobile. This inability creates a substantial hardship on the Petitioner in terms of preventing the appropriate garaged off-street parking of his automobile and creates a significant financial hardship to the Petitioner by devaluing the property which does not have a garage usable for parking an automobile.

The hardship is owing to the following circumstances relating to the soil conditions, shape or topography of such land or structures and especially affecting such land or structures by not affecting generally the zoning district in which it is located for the following reasons:

The current non-conformity of the existing garage is caused by a minor encroachment of the existing garage into the side-yard and rear-yard setbacks and a non-conformity in the lot's open space ratio (all pre-dating the Zoning Ordinance). There is only one practical location for a garage on the site and that is the current location of the existing garage. Given the yard boundaries, yard shape, location of the existing house and garage, side and rear-yard setback requirements, and necessary open space ratio, no enlargement, even a minor enlargement of the garage can be accomplished without zoning relief thereby creating a hardship on the Petitioner. These circumstances are unique to this property and do not affect generally the zoning district in which the house is located.

C) DESIRABLE RELIEF MAY BE GRANTED WITHOUT EITHER:

Desirable relief may be granted without substantial detriment to the public good for the following reasons:

The minor enlargement of the existing garage in the same location as the existing garage will create no detriment to, and have no effect on, the public good in any respect.

Desirable relief may be granted without nullifying or substantially derogating from the intent or purpose of this Ordinance for the following reasons:

The intent and purpose of the Ordinance is to regulate the development of property in the City based on standards that are neighborhood and use specific. Here, the relief requested is consistent with adherence to the requirements of the Ordinance and do not disturb the intentions of Ordinance with regard to the neighborhood or the property's use. The relief requested for the minor encroachment of the proposed garage into the side-yard and rear-yard setbacks and the slight reduction in lot open space, will in no way nullify or substantially derogate from the intent or purpose of this Ordinance.

BZA APPLICATION FORM

DIMENSIONAL INFORMATION

PPLICANT:Fawwa			PRESENT C	JSE/OCCUPANCY	:Garag
OCATION: _82 Lar	ch Road		ZONE:	Residence B	Zone
HONE: _617-721-728	9	REQU	ESTED USE/OCCUPANCY: G	Sarage,Replace	ement of
		CONDITIONS		ORDINANCE REQUIREMENTS ¹	
OTAL GROSS FLOOR A	REA:	2,788 SF	3,133 SF	3,137.5 SI	(max.)
OT AREA:		6,821 SF	6,821 SF	5,000 SF	(min.)
ATIO OF GROSS FLOO O LOT AREA: ²	R AREA	41%	44% with new Garag	re 50%	(max.)
OT AREA FOR EACH D	WELLING UNIT:	6,821 SF	6,821 SF	2,500	(min.)
IZE OF LOT:	WIDTH	90 ft	90 ft	50 ft	(min.)
		3.64 ft, (aver	rage) 73.64 ft,		(
etbacks in	FRONT		39 ft for Garage	15 ft	(min.)
<u>eet</u> :	REAR		20.6 ft for Garage	25 ft	(min.)
	LEFT SIDE Gar	age was attac	hed Garage to be at	tached	(min.)
	RIGHT SIDE	6.4 ft	4 ft	7.5 ft	(min.)
IZE OF BLDG.:	HEIGHT		15.8 ft	35 ft	(max.)
	LENGTH		25 ft		
	WIDTH		13 ft		
ATIO OF USABLE OPE	N SPACE				
O LOT AREA:)	66% with f	ormer garage	67% with new gara	age 40%	(min.)
O. OF DWELLING UNI	TS:	1		1	(max.)
O. OF PARKING SPAC	ES:	1	1		./max)
O. OF LOADING AREA	<u>s</u> :	NA	NA		(min.)
ISTANCE TO NEAREST N SAME LOT:	BLDG. G	arage is atta	ched to existing ho	ouse	(min.)
			same lot, the size o e.g.; wood frame, con		
Structure	is wood fra	ne			
					
		······			

an older

^{1.} SEE CAMBRIDGE ZONING ORDINANCE ARTICLE 5.000, SECTION 5.30 (DISTRICT OF DIMENSIONAL REGULATIONS).

^{2.} TOTAL GROSS FLOOR AREA (INCLUDING BASEMENT 7'-0" IN HEIGHT AND ATTIC AREAS GREATER THAN

^{5&#}x27;) DIVIDED BY LOT AREA.

3. OPEN SPACE SHALL NOT INCLUDE PARKING AREAS, WALKWAYS OR DRIVEWAYS AND SHALL HAVE A MINIMUM DIMENSION OF 15'.

BZA Application Form

DIMENSIONAL INFORMATION

Initial Dubmission "missing many data"

Applicant:

Fawwaz Habbal

Location: 82 Larch Road

Phone:

617-721-7289

Present Use/Occupancy:

garage

Zone:

Residence B Zone

Requested Use/Occupancy:

garage

		Existing Conditions	Requested Conditions	Ordinance Requirements	
TOTAL GROSS FLOOR AREA:	2,79	7 3 11.5 ft x 19 ft=218.5	3,13,3*25=325	NA-3/137.5	(max.)
LOT AREA:		821 -N/A	6821 NA	N/A 3000	(min.)
RATIO OF GROSS FLOOR AREA TO LOT AREA: 2	411	218. 5/6821=0.032 0	325/6821=0.0476 44		
LOT AREA OF EACH DWELLING UNIT	1	NA-6,821	N/A 6,821	N/A 2500	
SIZE OF LOT:	WIDTH DEPTH	N/A 90 N/A 73,	N/A- 90 N/A 73, 64.	C+ N/A 50	
SETBACKS IN FEET		N/A To,	N/A 75.64.	N/A 15	
	REAR	20 ft	20 ft 26,6		
	LEFT SIDE	structure is attached to house	411 attached	to II	
	RIGHT SIDE	6.4 ft	4 ft	7.5 ft	
SIZE OF BUILDING:	HEIGHT	10 ft and room on top	15,8	1535	
	WIDTH	N/A	N/A 25	N/A	
RATIO OF USABLE OPEN SPACE TO LOT AREA:		N/A 666	N/A 25 67/2 N/A 13	NA 40	
NO. OF DWELLING UNITS:		1	1	1	
NO. OF PARKING SPACES:		one	one	one	
NO. OF LOADING AREAS:		N/A	N/A	N/A	
DISTANCE TO NEAREST BLDG. ON SAME LOT		garage was attached	4 ft	10 ft	

Describe where applicable, other occupancies on the same lot, the size of adjacent buildings on same lot, and type of construction proposed, e.g; wood frame, concrete, brick, steel, etc.

- 1. SEE CAMBRIDGE ZONING ORDINANCE ARTICLE 5.000, SECTION 5.30 (DISTRICT OF DIMENSIONAL REGULATIONS).
- 2. TOTAL GROSS FLOOR AREA (INCLUDING BASEMENT 7'-0" IN HEIGHT AND ATTIC AREAS GREATER THAN 5') DIVIDED BY LOT AREA.
- 3. OPEN SPACE SHALL NOT INCLUDE PARKING AREAS, WALKWAYS OR DRIVEWAYS AND SHALL HAVE A MINIMUM



City of Cambridge

MASSACHUSETTS

BOARD OF ZONING APPEAL

831 Mass Avenue, Cambridge, MA. (617) 349-6100

BZA

POSTING NOTICE - PICK UP SHEET

The undersigned picked up the notice board for the Board of Zoning Appeals Hearing.

Name:	Fawwaz HABBAL	_ Date: Oct. 18, 2021
Address:	82 laich Road	· •
Case No	BZA-140869	
Hearing I	Date: 11/4/2/	*

Thank you, Bza Members

Habbal House Garage Dr. & Mrs. Fawwaz Habbal 82 Larch Rd. Cambridge, MA

DRAWING LIST

1-ARCHITECTURAL

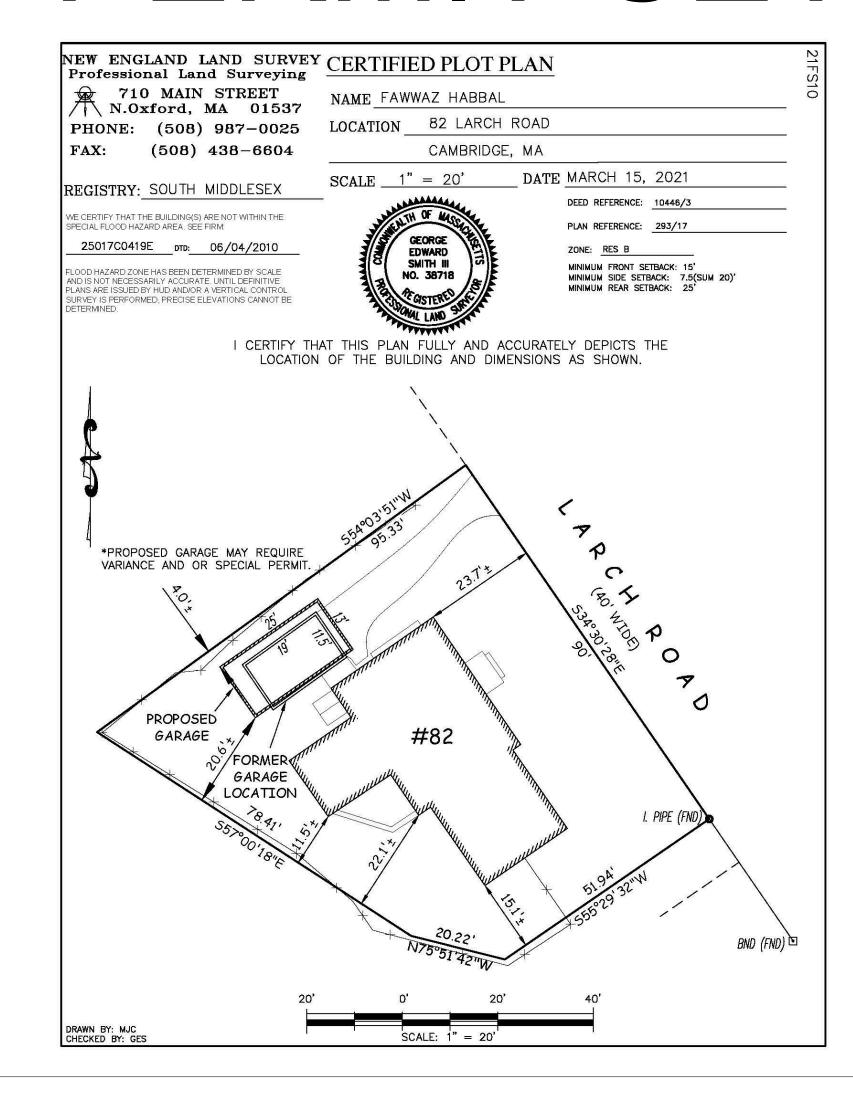
A.200 GARAGE PLAN AND ELEVATIONS
A.300 GARAGE SECTIONS AND DETAILS

DRAWING LIST

2-STRUCTURAL

S.100 GARAGE STRUCTURAL NOTES
S.101 GARAGE STRUCTURAL DRAWINGS

3/18/21 PERMIT SET



Architects



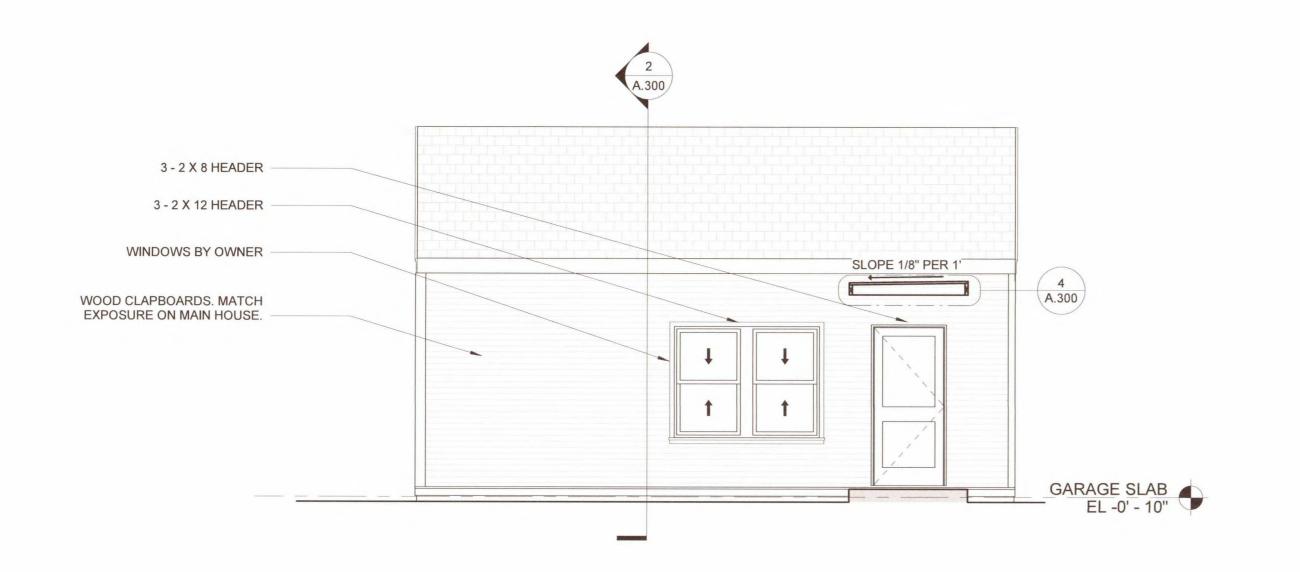
24 Roland Street, Suite 301 Charlestown, MA 02129 T: 617.776.6545 F: 617.776.6678 www.hktarchitects.com

Structural Engineer

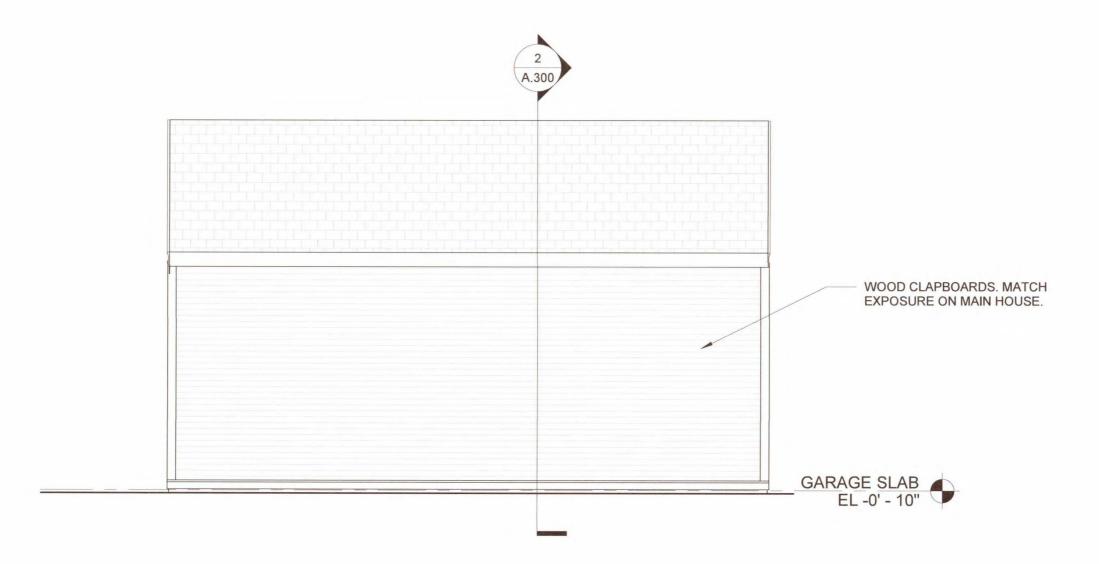
Lim Consultants, Inc. 6 Pleasant Street Malden, MA 02148 TEL: (781) 338-9300 FAX: (781) 338-9310

Client

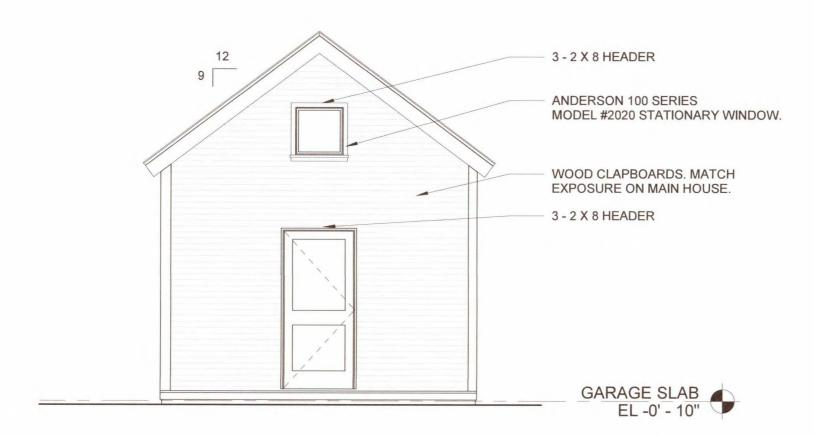
Dr. & Mrs. Fawwaz Habbal 33 Lexington Avenue Cambridge, MA 02138



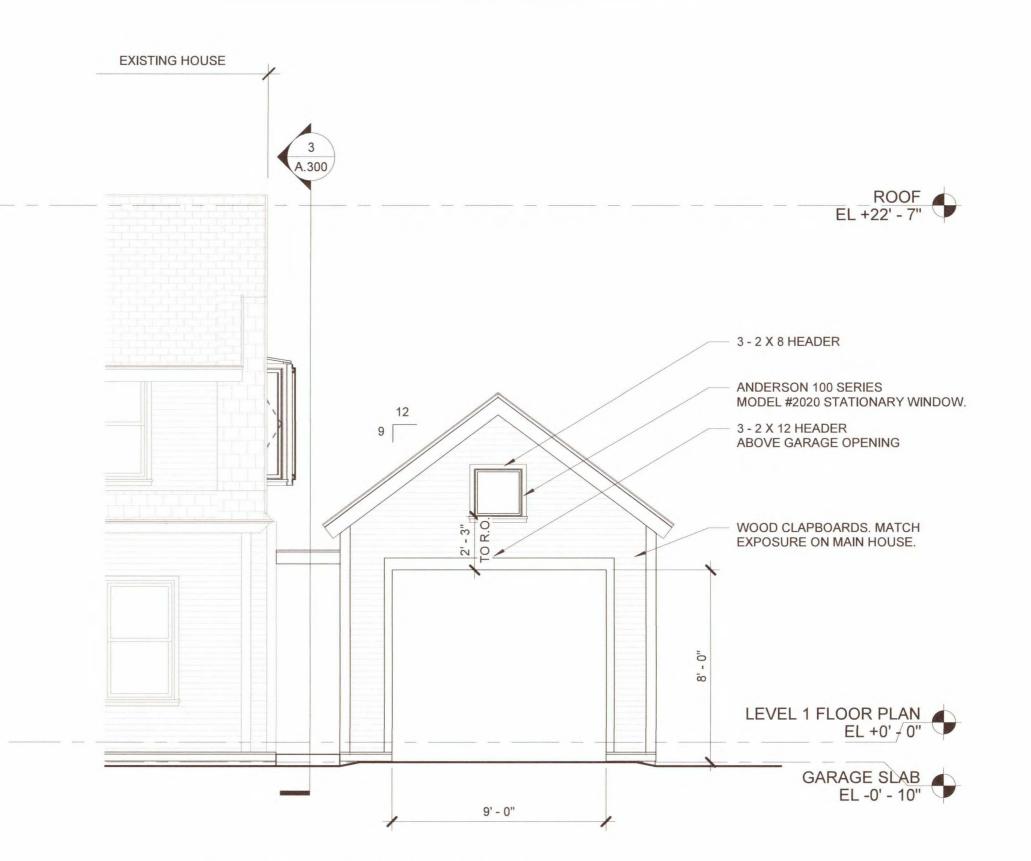
5 GARAGE - SOUTH ELEVATION 1/4" = 1'-0"



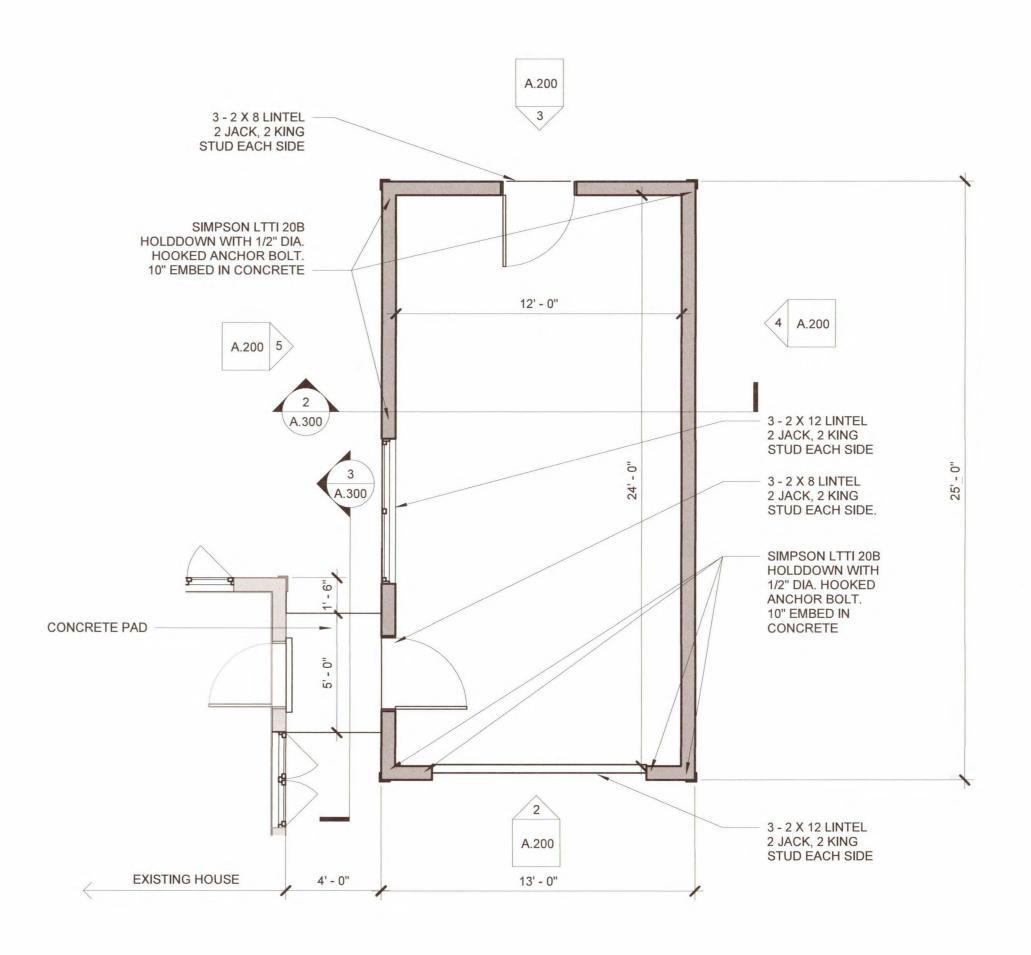
GARAGE - NORTH ELEVATION
1/4" = 1'-0"



3 GARAGE - WEST ELEVATION
1/4" = 1'-0"



2 GARAGE - EAST ELEVATION WITH MAIN HOUSE 1/4" = 1'-0"



1 GARAGE PLAN 1/4" = 1'-0"



24 Roland St. Suite 301 Charlestown, MA 02129 T: 617.776.6545 F: 617.776.6678 www.hktarchitects.com

Number	Revision	Date		

Registrations



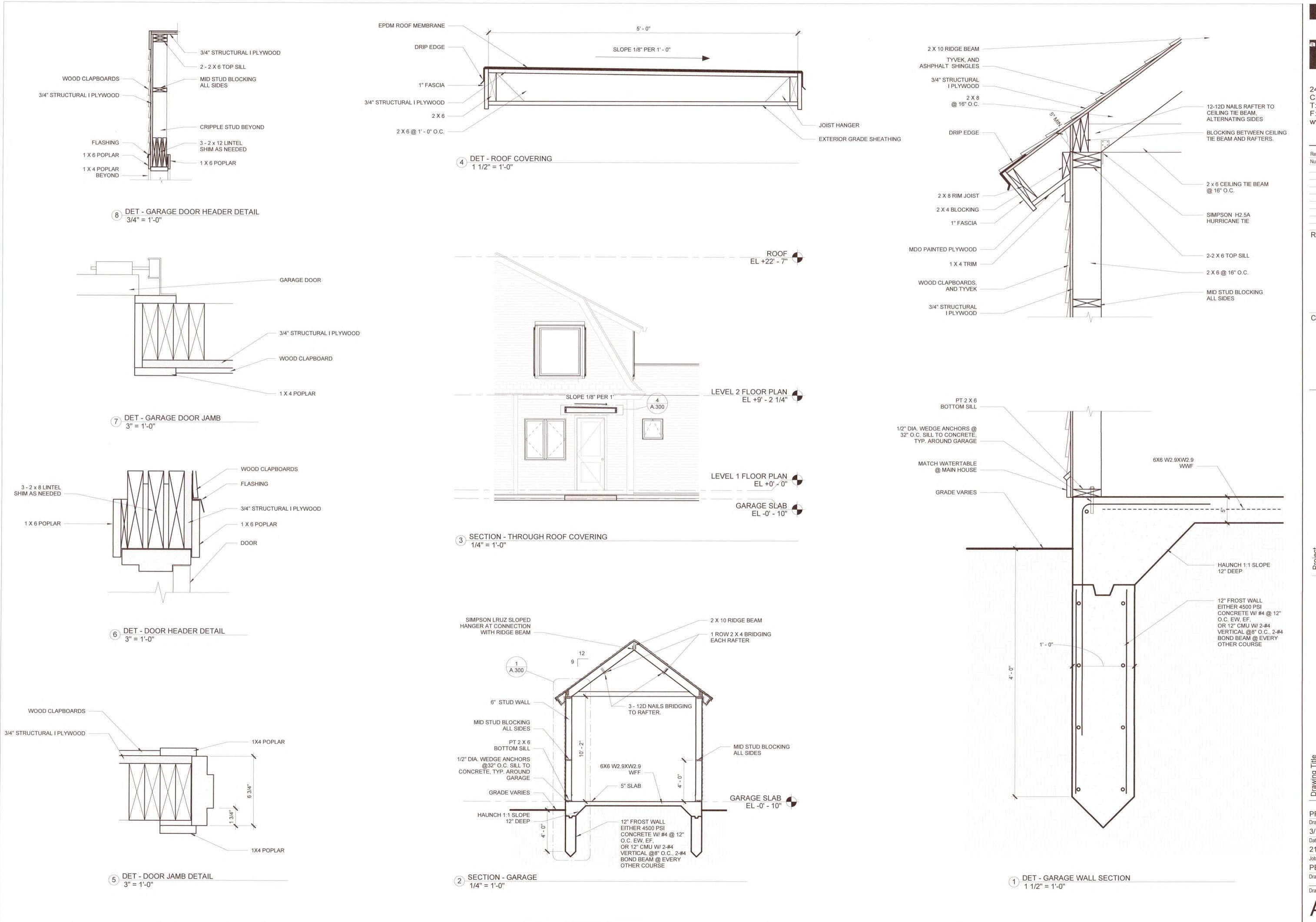
Habbal House Garage 82 Larch Rd. Cambridge, MA

GARAGE PLAN AND ELEVATIONS

PR WRH
Drawn by Checked by
3/18/21
Date
21935
Job number
PERMIT SET
Drawing set

Drawing number

A.200





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Revision Schedule Number Revision



Consultants

DETAIL AND

WRH Drawn by Checked by 3/18/21 Date 21935 Job number PERMIT SET Drawing set Drawing number

A.300

STRUCTURAL WOOD

- W1 WOOD CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" AND ITS SUPPLEMENT BY AMERICAN WOOD COUNCIL.
- STRUCTURAL WOOD SHALL BE IDENTIFIED BY THE GRADE MARK OF, OR CERTIFICATE OF INSPECTION ISSUED BY, A GRADING OR INSPECTION BUREAU OR
- STRUCTURAL WOOD SHALL BE VISUALLY STRESS-GRADED IN ACCORDANCE WITH ASTM D245, "METHODS FOR ESTABLISHING STRUCTURAL GRADES AND RELATED ALLOWABLE PROPERTIES FOR VISUALLY GRADED LUMBER."
- ALL DIMENSIONS OF SOLID SAWN LUMBER SHALL CONFORM TO THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION SUPPLEMENT" LATEST EDITION. THE WOOD CROSS SECTIONAL DIMENSIONS LISTED ON THE DRAWINGS ARE ASSUMED TO BE NOMINAL STANDARD SIZES (E.G. 2X8) UNLESS THE DIMENSION IS FOLOWED BY THE INCH SYMBOL (E.G. 4"X6.75").
- MATERIALS SHALL BE HANDLED AND COVERED TO PREVENT DAMAGE AND MOISTURE ABSORPTION FROM SNOW OR RAIN.
- STRUCTURAL LUMBER SHALL BE KILN DRIED AND HAVE MOISTURE CONTENT OF NOT MORE THAN 15 PERCENT. SEE SPECIFICATIONS FOR DETAIL REQUIREMENTS ON PRODUCTS.
- W7 ALL NEW WOOD CONSTRUCTION SHALL CONFORM TO THE SPECIFICATION REQUIREMENTS OF SECTION ROUGH CARPENTRY NAILING:
 - STUDS SHALL BE NAILED TO THE SILL PLATE WITH THREE 10d OR FOUR 8d TOE NAILS PER STUD. IF DOUBLE FRAMED, NAIL INNER STUD TO OUTER STUD WITH 16d NAILS, 24" O.C. TOE NAIL INNER STUD TO WALL PLATE WITH TWO 8d NAILS
 - OR END NAIL WITH 16d NAILS. NAIL OUTER STUD TO HEADER WITH FOUR 16d NAILS AND TO TOP PLATE WITH TWO 8d TOE NAILS. IF SINGLE FRAMED, TOE NAIL JAMB STUD TO WALL PLATES WITH TWO 8d NAILS OR END NAIL WITH TWO 16d NAILS.
- CONVENTIONAL WOOD JOISTS:
- SPLICES SHALL OCCUR ONLY OVER BEARING POINTS.

AGENCY RECOGNIZED AS BEING COMPETENT.

- MINIMUM BEARING FOR JOISTS = 1-3/4 INCH AT ENDS, AND 3-1/2 INCHES WHERE JOISTS ARE CONTINUOUS.
- JOIST LAPS SHALL BE LOCATED OVER BEARING AND NAILED TOGETHER WITH 16d NAILS, MINIMUM LAP 6". MAXIMUM JOIST OVERHANG = 12" UNLESS OTHERWISE NOTED.

TOE NAIL JAMB STUD TO HEADER WITH 8d NAILS.

- USE METAL JOIST HANGERS AT ALL FLUSH FRAME CONSTRUCTION
- JOISTS SHALL BE DOUBLED UNDER PARALLEL PARTITIONS.
- BRIDGING WILL BE SOLID USING 2" x JOIST DEPTH INSTALLED IN OFFSET FASHION. MAXIMUM SPACING = 4 FEET NO JOIST SHALL BE NOTCHED OR DRILLED WITH HOLES WITHOUT THE SPECIFIC APPROVAL OF THE ENGINEER.
- NO JOIST SHALL BE REPAIRED OR REINFORCED IN ANY WAY WITHOUT THE SPECIFIC APPROVAL OF THE STRUCTURAL ENGINEER. JOIST SUPPORT SOLELY BY NAILING IS NOT ALLOWED.
- W9 WALLS (BEARING AND NON-BEARING)
- CONSTRUCT WALLS AS NOTED ON THE FLOOR FRAMING PLANS AND HEREWITH
 - ALL STUDS ARE TO BE CONTINUOUS AND ALIGNED FROM FLOOR TO FLOOR AND FLOOR TO ROOF
 - INTERIOR WALL SHEATHING SHALL BE 1/2" APA STRUCTURAL I RATED PLYWOOD SHEATHING WITH MINIMUM SPAN RATING OF 32/16 EXPOSURE 1.
 - EXTERIOR SHEATHING SHALL BE 1/2" APA STRUCTURAL I RATED PLYWOOD SHEATHING WITH A MINIMUM SPAN RATING OF 32/16, EXPOSURE 1. EXTERIOR SHEATHING SHALL BE FIRE RETARDANT TREATED (FRT).
 - SHEATHING PANEL EDGES SHALL BE BLOCKED WITH 2X MEMBERS OF THE SAME SIZES AS TOP PLATES. PROVIDE 2X BLOCKING AT
 - HORIZONTAL PANEL SEAM BETWEEN SUPPORTING MEMBERS.
 - ALL LOAD BEARING WALLS ARE CONSIDERED SHEAR WALLS. PROVIDE SHEAR BLOCKING IN SHEAR WALLS BETWEEN WHERE SHEATHING OVERLAPS BOTTOM PLATES, NAIL SHEATHING TO BOTTOM PLATES AT 6" MAXIMUM ON CENTERS UNLESS OTHERWISE
 - ALL WOOD COMPONENTS OF THE EXTERIOR WALL SHALL BE FIRE RETARDANT TREATED.
 - UNLESS OTHERWISE SPECIFIED, NAILING SHOULD COMPLY WITH THE RECOMMENDATIONS OF THE AMERICAN PLYWOOD ASSOCIATION.

SILL PLATE. PROVIDE SPECIFIED NUMBER OF JAMB STUDS SHOWN IN PLAN.

- W10 BEARING WALL OPENINGS BEARING WALL OPENINGS SHALL BE FRAMED TO PROVIDE A RIGID ENCLOSURE. JAMB STUD SHALL EXTEND IN ONE PIECE FROM HEADER TO
- W11 PLATES (BEARING OR NON-BEARING): TOP PLATES FOR BEARING PARTITIONS SHALL BE MIN. TRIPLE 2 x6'S OR TRIPLE 2x8'S (MATCH WALL CONSTRUCTION) OR AS NOTED ON PLAN. PLATE MEMBERS OF PRINCIPAL PARTITIONS SHALL BE LAPPED OR ANCHORED TO EXTERIOR WALL FRAMING. SPLICES SHALL OCCUR OVER STUDS. NAIL PLATES TO STUDS WITH TWO 16d NAILS AT EACH STUD O.C UNLESS NOTED OTHERWISE. STAGGER SPLICE TOP AND
 - BOTTOM WITH MIN. OVERLAP OF 48". MIN. (20) 16d NAILS IN LAP SPLICE. TOP PLATES FOR NON-BEARING INTERIOR PARTITIONS MAY BE SINGLE. NAIL PLATE TO STUD WITH TWO 16d NAILS. WHEN TOP PLATE IS
 - PARALLEL TO CEILING OR FLOOR FRAMING, INSTALL 2 x 6 CROSS BLOCKING NOT MORE THAN 4'-0" O.C.
 - WHEN TOP PLATES ARE CUT FOR PIPING OR DUCT WORK, REINFORCE WITH STEEL STRAPS. DOUBLE BOTTOM PLATES SHALL BE USED AT BEARING WALLS THAT DO NOT REST ON CONTINUOUS CONCRETE OR MASONRY
 - FOUNDATIONS.
- W12 BEAMS AND GIRDERS:
- GIRDERS WILL NOT REST LESS THAN 4" ON SUPPORTS.
 - WHERE BEAMS AND GIRDERS OF NOMINAL 2" MEMBERS ARE SHOWN, NAIL TOGETHER WITH TWO ROWS OF 16d NAILS STAGGERING
 - SPACED NOT MORE THAN 12" O.C., LOCATE END JOINTS IN MEMBERS OVER SUPPORTS. ALL BEAMS MUST SPLICE ONLY OVER SUPPORTS UNLESS SPECIFICALLY INSTRUCTED OTHERWISE BY STRUCTURAL ENGINEER.
 - DO NOT SUBSTITUTE SOLID MEMBERS WITH BUILT UP MEMBERS WITHOUT APPROVAL FROM THE ENGINEER.
- W13 FLOOR:
- FLOOR SHEATHING SHALL BE 3/4" T&G APA STRUCTURAL I RATED PLYWOOD PANEL HAVING A SPAN RATING OF 48/24, EXPOSURE 1. FLOOR SHEATHING SHALL BE INSTALLED WITH GRAIN OF PLIES AT RIGHT ANGLES TO JOISTS/TRUSSES AND BE STAGGERED SO THAT SPLICES IN
- ADJACENT PANELS OCCUR OVER DIFFERENT JOISTS/TRUSSES. FLOOR SHEATHING SHALL BE NAILED WITH 10d COMMON NAILS. NAILS SHALL BE 6 INCHES O.C. AT ALL EDGES AND AT INTERIOR LINES OF
- SUPPORT AND BLOCKING. BLOCK ALL PANEL EDGES W/ MIN. 2X BLOCKING BETWEEN JOISTS OR TRUSSES.
- FLOOR SHEATHING WITHIN 2'-0" FROM FACE OF EXTERIOR WALL SHALL BE FIRE RETARDANT TREATED.
- W14 ROOF:
- ROOF SHEATHING SHALL BE 3/4" APA STRUCTURAL I RATED PLYWOOD PANEL (EXTERIOR) INSTALLED WITH GRAIN OF PLIES AT RIGHT ANGLES TO JOINTS AND TRUSSES AND BE STAGGERED SO THAT SPLICES IN ADJACENT PANELS OCCUR OVER DIFFERENT TRUSSES. SPAN RATING OF SHEATHING SHALL BE 48/24.
- ROOF SHEATHING SHALL BE NAILED WITH 10d NAILS. NAILS SHALL BE 4 INCHES O.C. AT ALL EDGES AND 6" O.C. AT INTERIOR LINES OF SUPPORT, U.N.O.
- W15 CONNECTIONS
- ALL WOOD POST BASES ON WOOD TO BE SIMPSON TYPE AB OR EQUAL UNO.
 - ALL WOOD BEAMS ON WOOD COLUMNS TO HAVE SIMPSON TYPE CCQ/ECCQ OR EQUAL ALL FLUSH FRAMED CONVENTIONAL WOOD JOIST CONNECTIONS TO BE SIMPSON TYPE BA, MIT OR EQUAL. PROVIDE SLOPED FLUSH
 - FRAMED CONNECTORS AT SLOPING RAFTERS (MAY REQUIRE SPECIAL ORDER)
 - COMPLY WITH MANUFACTURER SPECIFICATIONS INSTALLATIONS FOR ALL OF THE ABOVE
 - ANCHOR BOLTS AND BOLTS FOR STRUCTURAL TIMBER SHALL BE ASTM A307. STANDARD CUT WASHERS SHALL BE PROVIDED BETWEEN THE WOOD AND BOLT NUT, UNLESS STEEL PLATES OR PLATE WASHERS ARE USED, AS INDICATED ON STRUCTURAL DRAWINGS. BOLT HOLES IN
 - STRUCTURAL TIMBER SHALL BE 1/16 INCH LARGER THAN THE NOMINAL BOLT DIAMETER INDICATED. ALL EXTERIOR CONNECTION HARDWARE INCLUDING NAILS, BOLTS, AND FABRICATED CONNECTORS SHALL BE HOT-DIPPED GALVANIZED.
- W16 ENGINEERED WOOD BEAMS AND HEADERS

THROUGH ALL PLIES.

- PROVIDE ENGINEERED WOOD (I-JOISTS, LVL's, GLULAM'S ETC.) SCHEDULE ON SHOP DRAWINGS AND PROVIDE LOAD RATED PRE-
 - MANUFACTURED WOOD CONNECTORS FOR POSTS TO BEAM AND ALL FLUSH- FRAMED MEMBERS. PROVIDE FASTENERS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATION FOR EACH TYPE.
 - WHERE NO MANUFACTURED WOOD CONNECTOR EXISTS, FABRICATE FROM 1/4 INCH WELDED STEEL PLATE TO CONFORM TO THE MOST SIMILAR SIMPSON CONNECTOR.
 - CONNECTION SHALL BE DESIGNED FOR MAXIMUM CAPACITY OF THE CONNECTED MEMBERS FOR THE SPANS INDICATED.

 - END BEARING OF LVL BEAMS SHALL BE 3 INCHES MINIMUM AND ACROSS THE FULL WIDTH OF THE BEAM.
 - ALL LVL BEAMS REQUIRE LATERAL SUPPORT OR BLOCKING AT BEARING POINTS. BUILT UP LVL BEAMS SHALL BE NAILED OR BOLTED TOGETHER IN ACCORDANCE WITH THE MANUFACTURER'S LITERATURE, BUT NOT LESS THAN 3 ROWS OF 16d NAILS AT 12 INCHES O.C.
- W17 ALL STRUCTURAL WOOD SHALL HAVE THE FOLLOWING MINIMUM DESIGN VALUES AND SHALL HAVE MATERIAL CERTIFICATES & GRADE STAMPS ATTESTING THEREOF (UNITS IN PSI UNLESS OTHERWISE NOTED):

	Fb	Ft	Fv	Fc	Fc	E
LOCATION OF USE				PAR.	PERP.	KSI
CONVENTIONAL WOOD JOISTS/RAFTERS/ LINTELS (BASED ON SOUTHERN YELLOW PINE #2), (INCLUDING SISTERING MEMBERS)	1000	600	175	1400	565	1400
STUDS, PLATES, BUILT UP COLS, BLOCKING-UNO (BASED ON SPRUCE, PINE FIR, STUD GRADE), (INCLUDING SISTERING MEMBERS)	675	350	135	725	425	1200
PARALLEL STRAND LUMBER (PSL)	2400	1755	190	2500	545	1800
LAMINATED VENEER LUMBER (LVL)	3100	2150	285	3000	750	2000

- W18 ALL WOOD FRAMING SHALL BE FASTENED IN ACCORDANCE WITH THE FASTENING SCHEDULE IN TABLE 2304.10.1. OF THE IBC OR AS INDICATED IN CONTRACT DRAWINGS, THE MORE STRINGENT SHALL APPLY. WALL AND DIAPHRAGM ASSEMBLIES SHALL BE FASTENED IN ACCORDANCE WITH NOTES
- CONTRACT DRAWINGS. NAILS FASTENING SHEATHING TO SUPPORTING MEMBERS SHALL BE DRIVEN SO THAT THE NAIL HEAD IS FLUSH WITH THE
- W19 CUTTING, NOTCHING AND BORING SHALL BE AVOIDED WHEREVER POSSIBLE. WHEN ABSOLUTELY NECESSARY, CUTTING, NOTCHING AND BORING OF STRUCTURAL FRAMING AND LOAD BEARING ASSEMBLIES SHALL BE LIMITED BY THE PROVISION OF SECTION 2308 OF IBC, 2015:
 - 2308.8.4.2.4 AND 2308.4.3 WALL FRAMING 2308.5.9 AND 2308.5.10

2308.7.4

- W20 JOIST SUPPORTED BY NAILING IS FORBIDDEN UNLESS USED WITH AN APPROVED HANGER. UNLESS NOTED OTHERWISE ON PLANS, ALL FLUSH FRAMED JOISTS AND BEAMS SHALL BE FRAMED WITH THE FOLLOWING SIMPSON HANGERS (OR APPROVED EQUALS) UNLESS NOTED OTHERWISE:
 - TYPE 'U26' 2X6; 2X8 2-2X6; 2-2X8 TYPE 'U26-2' 3-2X6; 3-2X8 TYPE 'U26-3' 2X10; 2X12 TYPE 'U210' 2-2X10; 2-2X12 TYPE 'U210-2' 3-2X10; 3-2X12 TYPE 'U210-3' 3 1/2"X7 1/4"LVL TYPE 'HGLTV3.57.25' 5 1/4"X7 1/4"LVL TYPE 'HGLTV5.257.25' 7"X7 1/4"LVL TYPE 'HGLTV77.25' 3 1/2"X9 1/2" LVL TYPE 'HGLTV3.59' 5 1/4"X9 1/2" LVL TYPE 'HGLTV5.59' TYPE 'HGLTV79.5' 7'X9 1/2"LVL 3 1/2"X11 1/4" LVL TYPE 'HGLTV3.56/11.25' 3 1/2"X11 7/8" LVL TYPE 'HGLTV3.511'

5 1/4"X11 7/8" LVL

3 1/2"X14" LVL

3 1/2"X16" LVL

5 1/4"X16" LVL

5 1/4"X18" LVL

ROOF/CEILING FRAMING

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE CORRECT HANGERS FOR ALL SLOPED AND/ OR SKEWED CONDITIONS. FOR SIZES NOT LISTED SUBMIT HANGER TO ENGINEER FOR APPROVAL.
- W22 ALL EXISTING JOISTS AND RAFTERS MODIFIED FOR REPAIR SHALL BE RE-SUPPORTED WITH JOIST HANGERS

TYPE 'HGLTV5.511'

TYPE 'HGLTV3.514'

TYPE 'HGLTV3.516'

TYPE 'HGLTV3.516'

TYPE 'HGLTV3.518'

W23 TIMBER SHALL BE GENERALLY KNOT-FREE, WITH ONLY SMALL TIGHT KNOT PERMITTED AND GENERALLY STRAIGHT-GRAINED.

- CONCRETE WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14)" AND " SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301-16)".
- C2 CONCRETE SHALL BE CONTROLLED CONCRETE, PREPORTIONED, MIXED AND PLACED UNDER THE SUPERVISION OF AN APPROVED CONCRETE TESTING
- CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:
- 4500 PSI A.) FOOTINGS (NORMALWEIGHT) B.) ALL OTHER CONCRETE (NORMALWEIGHT) 4500 PSI
- CONCRETE SHALL HAVE THE FOLLOWING NOMINAL DRY DENSITY:
- A.) NORMALWEIGHT B.) LIGHTWEIGHT
- C5 CONCRETE TO BE EXPOSED TO THE WEATHER IN THE FINISHED CONDITION SHALL BE AIR-ENTRAINED. SEE SPECIFICATIONS
- THE USE OF CONSTRUCTION JOINTS WHERE SHOWN ON THE DRAWINGS IS MANDATORY. OMISSIONS, ADDITIONS OR CHARGES SHALL NOT BE MADE EXCEPT WITH THE SUBMISSION OF A WRITTEN REQUEST TOGETHER WITH DRAWINGS OF THE PROPOSED JOINT LOCATIONS FOR APPROVAL OF THE ENGINEER.
- WHERE CONSTRUCTION JOINTS ARE NOT SHOWN, DRAWINGS SHOWING LOCATION OF CONSTRUCTION JOINTS AND CONCRETE PLACING SEQUENCE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PREPARATION OF THE REINFORCEMENT SHOP DRAWNGS.

145 PCF

115 PCF

C8 SIZE OF CONCRETE PLACEMENTS UNLESS OTHERWISE SHOWN SHALL BE AS FOLLOWS:

SHALL BE LIMITED TO 60 FEET IN LENGTH AND 3600 SQUARE FEET IN AREA UNLESS INTERMEDIATE CONTROL JOINTS ARE PROVIDED TO LIMIT CRACKING, IN WHICH CASE THE LIMITS SHALL BE 10,000 SQUARE FEET UNLESS THE CONTRACTOR CAN DEMONSTRATE THE ABILITY TO PLACE AND FINISH LARGER AREAS. LOCATION OF JOINTS SHALL BE SUBMITTED BY THE CONTRACTOR FOR REVIEW PRIOR TO CONCRETE PLACEMENT.

- CONCRETE WALLS:
 SHALL BE LIMITED TO 60 FEET IN LENGTH, CONTROL JOINTS SHALL BE PROVIDED AT A MAXIMUM SPACING OF 30 FEET OR 1.5 X THE WALL HEIGHT, WHICHEVER IS LESS, UNLESS LOCATED ON DRAWINGS.
- C10 CONCRETE SHALL BE PLACED WITHOUT HORIZONTAL CONSTRUCTION JOINTS EXCEPT WHERE SHOWN OR NOTED. VERTICAL CONSTRUCTION JOINTS AND STOPS IN CONCRETE WORK SHALL BE MADE AT MID-SPAN OR AT POINTS OF MINIMUM SHEAR.
- NO CONDUITS OR PIPES OF ANY TYPE WILLBE PERMITTED TO BE EMBEDDED IN THE FRAMED CONCRETE SLABS.
- CONTRACTOR &/OR CONSTRUCTION MANAGER SHALL PROVIDE COLD WEATHER/FROST &/OR HOT WEATHER PROTECTION FOR ALL CONCRETE INCLUDING FOOTINGS PER SPECIFICATIONS.
- NO PIPES SHALL PASS THROUGH CONCRETE WITHOUT THE PERMISSION OF THE ARCHITECT/ENGINEER. STEEL PIPE SLEEVES SHALL BE PROVIDED AND SPACED A MINIMUM OF THREE PIPE DIAMETERS CLEAR APART.

REINFORCEMENT

- DETAILING, FABRICATION, AND ERECTION OF REINFORCEMENT, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE LATEST EDITIONS OF ACI "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14)" AND ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING OF REINFORCED CONCRETE STRUCTURES" (ACI 315-08)".
- R2 STEEL REINFORCEMENT SHALL CONFORM TO "ASTM A615 GRADE 60 (YIELD STRESS = 60,000 PSI)
- R3 WELDED & FIELD BENT STEEL REINFORCEMENT SHALL CONFORM TO: ASTM A706 GRADE 60 DEFROMED (YIELD STRESS = 60,000 PSI)
 - WELDED WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185
- PROVIDE AND SCHEDULE ON SHOP DRAWINGS, ALL NECESSARY ACCESSORIES TO HOLD REINFORCEMENT SECURELY IN POSITION. MINIMUM REQUIREMENTS SHALL BE:
 - HIGH CHAIRS 3'-0" ON CENTER #5 SUPPORT BAR ON HIGH CHAIRS
 - SLAB BOLSTERS -3'-0" ON CENTER
- MINIMUM CONCRETE COVER FOR REINFORCEMENT UNLESS OTHERWISE NOTED SHALL BE AS FOLLOWS:
- A.) UNFORMED SURFACES IN CONTACT WITH GROUND OR
- EXPOSED TO WEATHER (FOOTINGS, SLABS-ON-GRADE)
- B.) FORMED SURFACES IN CONTACT WITH GROUND OR EXPOSED TO WEATHER (WALLS)
- MAXIMUM DEVIATION FROM THESE REQUIREMENTS SHALL BE: 1/4 INCH FOR SECTIONS 10 INCHES THICK OR LESS
- 1/2 INCH FOR SECTIONS OVER 10 INCHES THICK
- WHERE CONTINUOUS BARS ARE CALLED FOR THEY SHALL BE RUN CONTINUOUSLY AROUND CORNERS AND LAPPED AT NECESSARY SPLICES OR HOOKED AT DISCONTINUOUS ENDS. LAPS SHALL BE CLASS B TENSION LAP SPLICE UNLESS OTHERWISE SHOWN. SEE DEVELOPMENT & SPLICE LENGTH TABLE.

3 INCHES

2 INCHES

- WHERE REINFORCEMENT IS NOT SHOWN ON DRAWINGS PROVIDE REINFORCEMENT IN ACCORDANCE WITH APPLICABLE TYPICAL DETAILS FOR MOST
- NEARLY SIMILAR SITUATIONS AS DETERMINED BY THE ENGINEER. IN NO CASE SHALL REINFORCEMENT BE LESS THAN THE APPLICABLE CODES. WHERE REINFORCEMENT IS CALLED FOR IN SECTION, REINFORCEMENT IS CONSIDERED TYPICAL WHEREVER THE SECTION APPLIES.
- REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS UNLESS OTHERWISE INDICATED ON THE DRAWINGS. WELDED WIRE FABRIC SHALL LAP (1 SPACING + 2") OR (6") WHICHEVER IS GREATER AT EACH JOINT AND SHALL BE WIRED TOGETHER. SECURE W.W.F. TO
- INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO SCHEDULED CONCRETE PLACEMENT. NOTIFY ENGINEER OR HIS DESIGNATE OF COMPLETION AT LEAST 48 HOURS PRIOR TO SCHEDULED COMPLETION OF PLACEMENT OF REINFORCEMENT.
- R12 ALL WWF IN GARAGE SLAB TO BE EPOXY COATED FOR CORROSION RESISTANCE.

MAINTAIN REQUIRED CONCRETE COVER DURING CONCRETE PLACEMENT.

					TENS	INI)	NCHES)	& SPLICE	LENGTHS						
			Pc = 3	,000 PSI			Pc = 4	,000 PSI			F'c = 5	,000 PSI			
BAR SIZE	LAP	TOP	BARS	OTHE	R BARS	TOP	BARS	OTHE	R BARS	TOP	BARS	OTHE	R BARS	LAP	BAR
	(321-32)	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2		
#3	А	22	33	17	25	19	28	15	22	16	23	12	20	A	#3
#3	В	29	43	23	33	25	37	20	29	23	33	17	26	В	#3
#4	A	29	43	22	33	25	37	19	29	23	34	17	26	A	#4
w+	В	38	56	29	43	33	49	25	38	30	45	23	34	В	W.4
#5	Α	36	54	28	42	31	47	24	36	28	42	22	32	Α	#5
#3	В	47	71	37	55	41	62	32	47	37	55	29	42	В	**3
#6	Α	43	65	33	50	37	56	29	43	34	50	26	39	Α	#6
#U	В	56	85	43	65	49	73	38	56	45	65	34	51	В	#0
#7	Α	63	94	48	72	54	81	42	63	49	73	38	56	Α	#7
m.e.	В	82	123	63	94	71	106	55	82	64	95	50	73	В	20.00
#8	Α	72	107	55	83	62	93	48	72	56	83	43	64	A	#8
#:O:	В	94	140	72	108	81	121	63	94	73	108	56	84	В	#0
#9	Α	81	121	62	93	70	105	54	81	63	94	48	72	Α	#9
#3	В	106	158	81	121	91	137	71	106	82	123	63	94	В	#3
#10	Α	91	136	70	105	79	118	61	91	71	106	54	81	Α	#10
·π.10	В	119	177	91	137	103	154	80	119	93	138	71	106	В	m10
#11	А	101	151	78	116	87	131	67	101	78	117	60	90	Α	#11
off Lit	В	132	197	102	151	114	171	88	132	102	153	78	117	В	25-11

		(IN IN	CHES)				
BAR	COMPRESSION LAP SPLICE	BAR	COMPRES	ENT LENGTH	T LENGTH		
SIZE		SIZE	3,000 PSI	4,000 PSI	5,000 PSI		
#3	12	#3	9	8	8		
#4	15	#4	11	10	9		
#5	19	#5	14	12	12		
#6	23	#6	17	15	14		
#7	27	#7	20	17	16		
#8	30	#8	22	19	18		
#9	34	#9	25	22	21		
#10	39	#10	28	25	23		
#11	43	#11	31	27	26		

REINFORCEMENT SPLICE NOTES

- 1.) UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS DEVELOPMENT AND SPLICE LENGTHS SHALL BE PER THE TABULATED VALUES.
- 2.) TABULATED VALUES ARE BASED ON GRADE 60 REINFORCING BARS AND NORMALWEIGHT CONCRETE COVER PER ACI 318-08.
- TABULATED VALUES FOR BEAMS AND COLUMNS ARE BASED ON TRANSVERSE REINFORCEMENT AND MINIMUM CONCRETE COVER PER CODE.
- LAP SPLICE LENGTHS ARE MULTIPLES OF TENSION DEVELOPMENT LENGTHS:
- CLASS A = 1.0 LD CLASSB = 1.3LDLD = DEVELOPMENT LENGTH
- TENSION LAP SPLICES SHALL BE CLASS B.
- 6.) REDUCTION OF ANY OF THE TABULATED VALUES AND CHANGES IN CLASSIFICATION MAY ONLY BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318-08, SUBJECT TO THE APPROVAL OF THE ENGINEER.
- CASES 1 AND 2, WHICH DEPEND ON THE TYPE OF STRUCTURAL ELEMENT, CONCRETE COVER, AND THE CLEAR SPACING OF THE BARS
- (CLEAR SPACING = CENTER TO CENTER SPACING MINUS Db & Db = NOMINAL DIAMETER OF REINFORCING BARS) ARE DEFINED AS FOLLOWS:

BEAMS OR	CASE 1:	COVER AT LEAST 1.0db AND CLEAR SPACING AT LEAST 2.0 db
COLUMNS	CASE 2:	COVER LESS THAN 1.0db OR CLEAR SPACING LESS THAN 2.0db
ALL OFFICE	CASE 1:	COVER AT LEAST 1.0db AND CLEAR SPACING AT LEAST 3.0 db
ALL OTHERS	CASE 2:	COVER LESS THAN 1.0db OR CLEAR SPACING LESS THAN 3.0db

- 8.) TOP BARS ARE HORIZONTAL BARS SO PLACED THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE DEVELOPMENT LENGTH OR SPLICE LENGTH.
- DEVELOPMENT AND SPLICE LENGTHS SHALL BE DIMENSIONED ON SHOP DRAWINGS.
- 10.) FOR EPOXY-COATED BARS MULTIPLY THE TABULATED VALUES BY ONE OF THE FOLLOWING FACTORS:

COVER LESS THAN 3.0db OR C-C SPACING LESS THAN 6.0 db TOP BARS = 1.31 / OTHER BARS = 1.50

TOP BARS = 1.20 / OTHER BARS = 1.20

LIGHTWEIGHT CONCRETE MULTIPLY THE TABULATED VALUES BY 1.3.

COVER MORE THAN 3.0db OR C-C SPACING MORE THAN 6.0 db

12.) WHEN BARS OF DIFFERENT SIZES ARE SPLICED, THE LONGEST REQUIRED SPLICE LENGTH CONTROLS.

24 Roland St. Suite 30 Charlestown, MA 02129 T: 617.776.6545 F: 617.776.6678 www.hktarchitects.com

Number	Revision	Date
10111001	1101131011	Date

Registrations



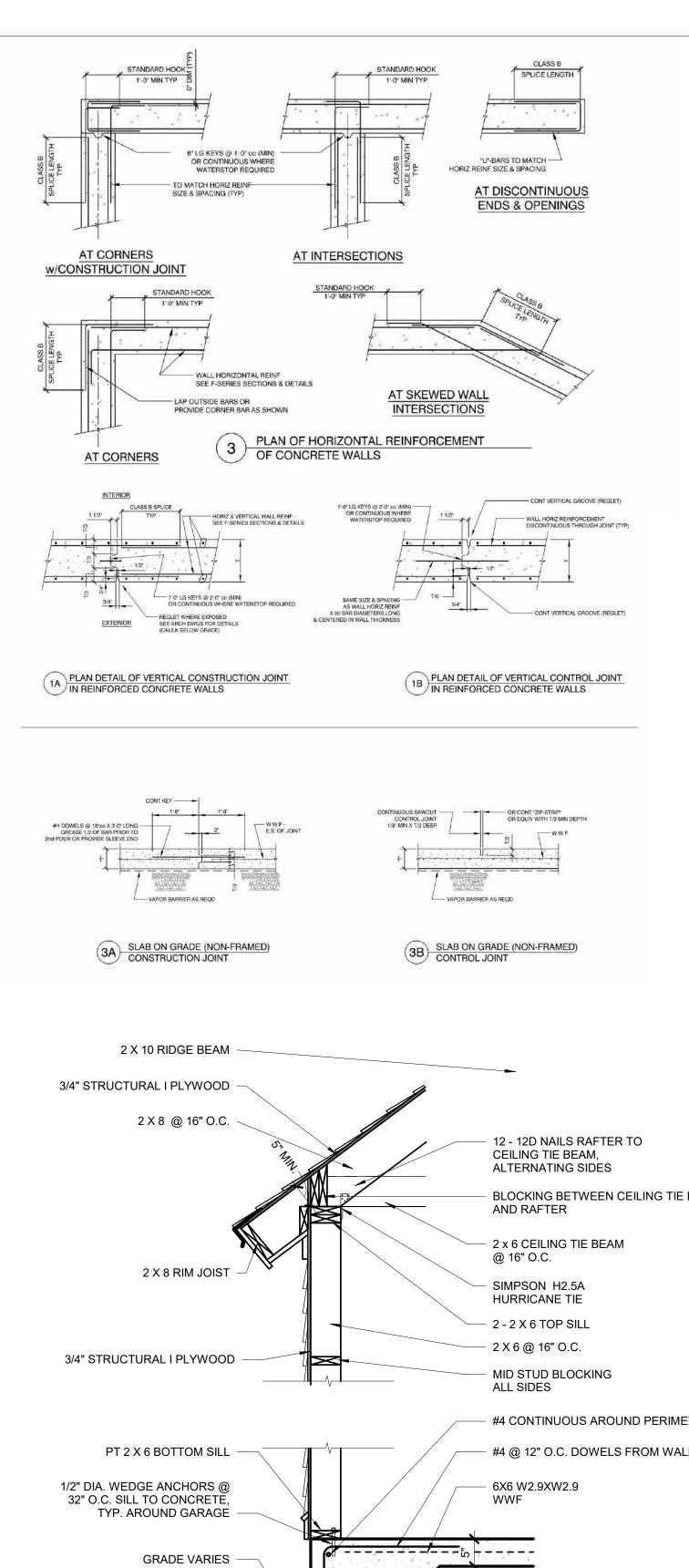
Consultants



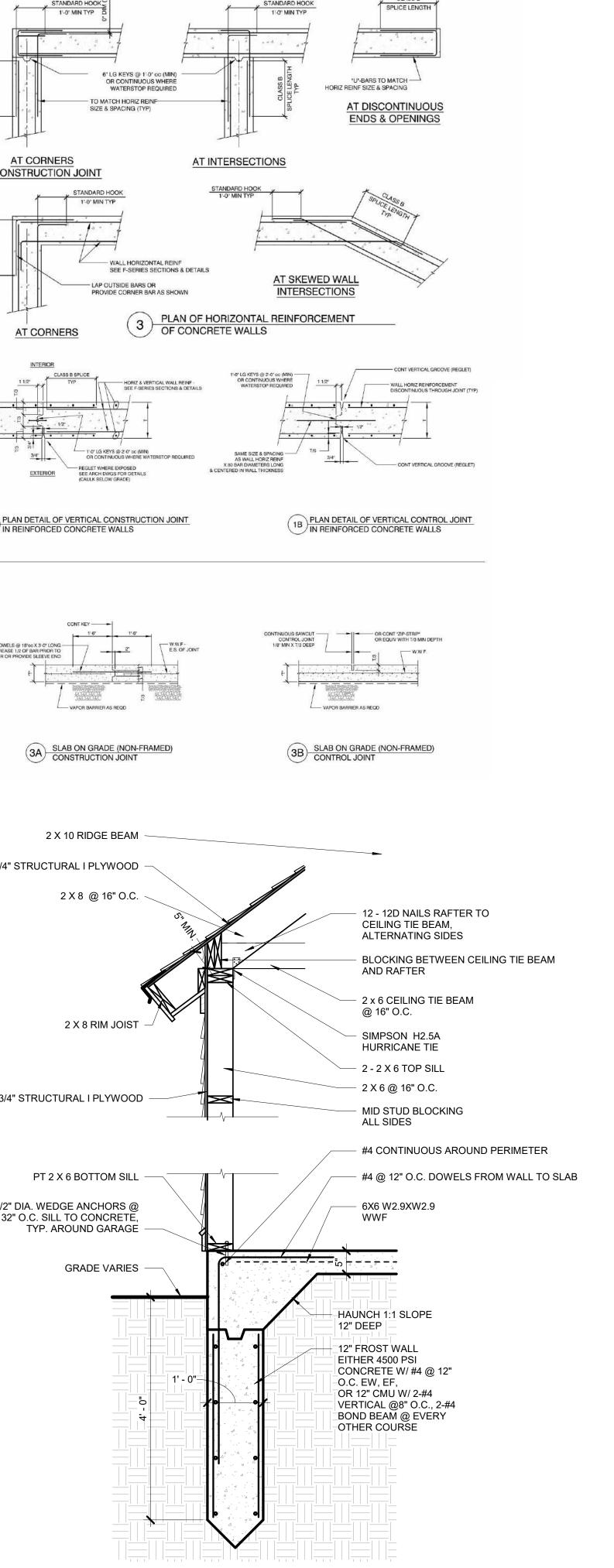
На 82

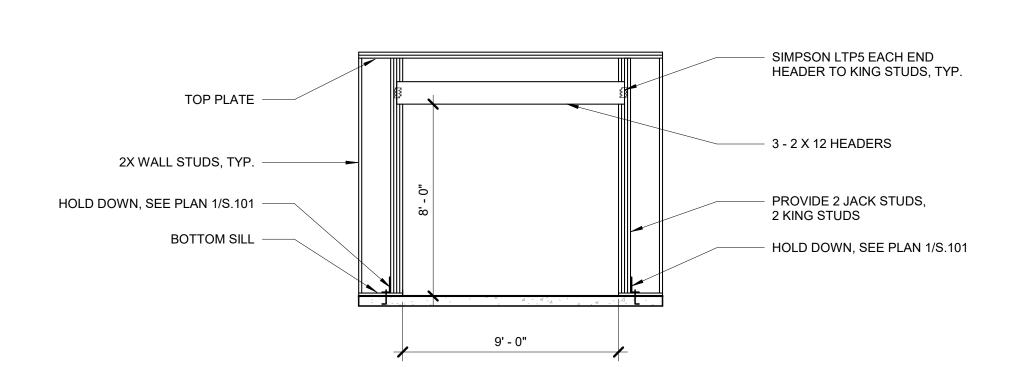
Drawn by Checked by 3/18/21 21935 Job number **PERMIT SET** Drawing set

Drawing number



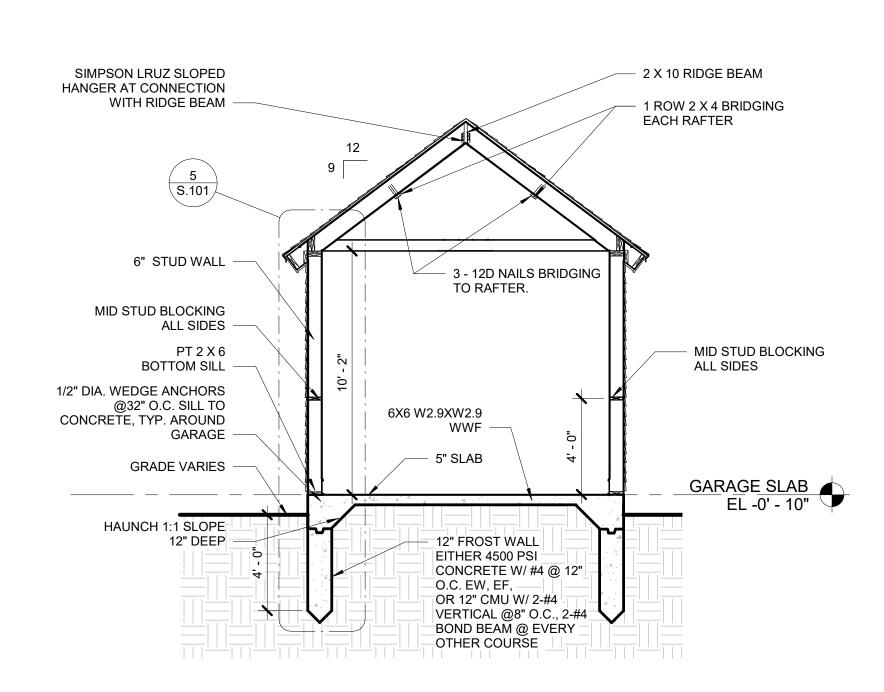
5 DET - GARAGE WALL SECTION 3/4" = 1'-0"



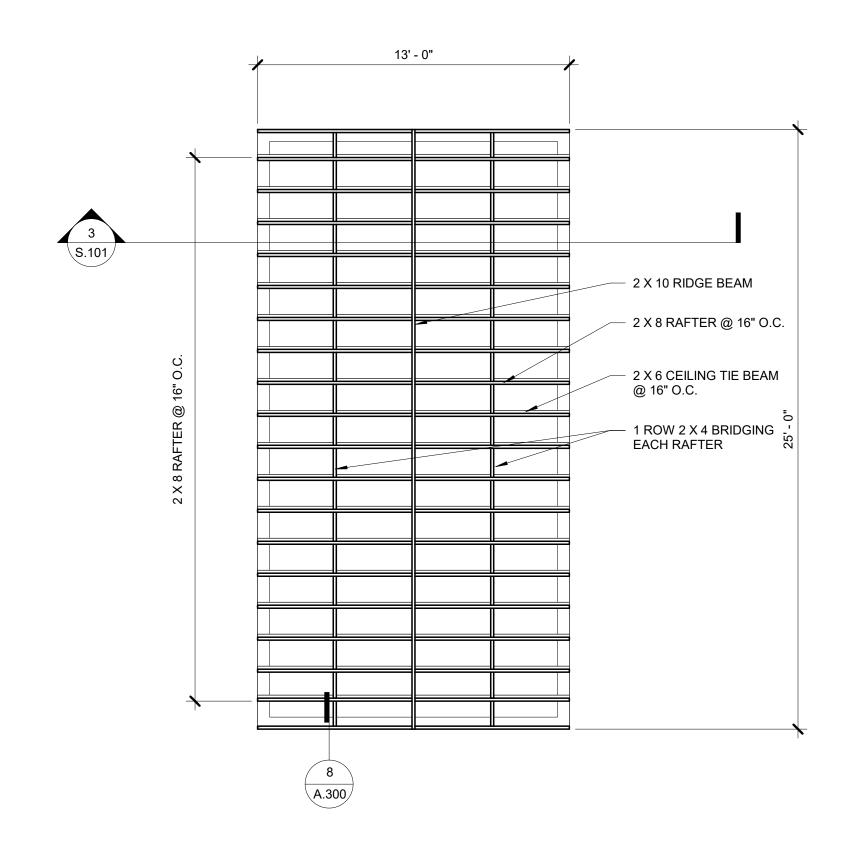


1. SPLICE SHEATHING AT CENTER OF RIM JOIST, AT TYPICAL STUDS & AT CENTER OF HEADER. AT EDGE OF SHEATHING, USE 10D NAILS @ 3" O.C. AT INTERMEDIATE STUDS USE 10D NAILS @ 6" O.C. 2. ALL SUPPORTS SHALL BE CARRIED DOWN TO THE GROUND FLOOR.

4 FRAMING ELEVATION AT GARAGE DOOR 1/4" = 1'-0"



3 <u>SECTION - GARAGE</u> 1/4" = 1'-0"



2 ROOF FRAMING PLAN
1/4" = 1'-0"

1 GARAGE PLAN 1/4" = 1'-0"

3 - 2 X 8 LINTEL 2 JACK, 2 KING STUD EACH SIDE		
SIMPSON LTTI 20B HOLDDOWN WITH 1/2" DIA. HOOKED ANCHOR BOLT. 10" EMBED IN CONCRETE	12' - 0"	3 - 2 X 12 LINTEL 2 JACK, 2 KING STUD EACH SIDE
S.101	24'-0"	25'-0"
9		3 - 2 X 8 LINTEL 2 JACK, 2 KING STUD EACH SIDE
EXISTING HOUSE		SIMPSON LTTI 20B HOLDDOWN WITH 1/2" DIA. HOOKED ANCHOR BOLT. 10" EMBED IN CONCRETE
4' - 0"	13' - 0"	3 - 2 X 12 LINTEL 2 JACK, 2 KING STUD EACH SIDE



24 Roland St. Suite 301 Charlestown, MA 02129 T: 617.776.6545 F: 617.776.6678 www.hktarchitects.com

Number	Revision	Date



Consultants



Lim Consultants, Inc.
6 Pleasant Street, Suite 520, Malden, MA 02148
Phone 781.338.9300 Fax 781.338.9310
www.limconsultants.com Structural Engineering Consultants

Project Habbal House 82 Larch Rd. (

PR	WRH
Drawn by	Checked by
3/18/21	
Date	
21935	
Job number	
PERMIT SET	

Drawing number

NEW ENGLAND LAND SURVEY CERTIFIED PLOT PLAN Professional Land Surveying

710 MAIN STREET N.Oxford, MA 01537 PHONE: (508) 987-0025

(508) 438-6604 FAX:

REGISTRY: SOUTH MIDDLESEX

WE CERTIFY THAT THE BUILDING(S) ARE NOT WITHIN THE SPECIAL FLOOD HAZARD AREA. SEE FIRM:

25017C0419E DTD: 06/04/2010

FLOOD HAZARD ZONE HAS BEEN DETERMINED BY SCALE AND IS NOT NECESSARILY ACCURATE. UNTIL DEFINITIVE PLANS ARE ISSUED BY HUD AND/OR A VERTICAL CONTROL SURVEY IS PERFORMED, PRECISE ELEVATIONS CANNOT BE DETERMINED.

NAME FAWWAZ HABBAL

82 LARCH ROAD LOCATION

EDWARD

SMITH III

NO. 38718

CAMBRIDGE, MA

DATE MARCH 15, 2021 1" = 20'SCALE

DEED REFERENCE: 10446/3

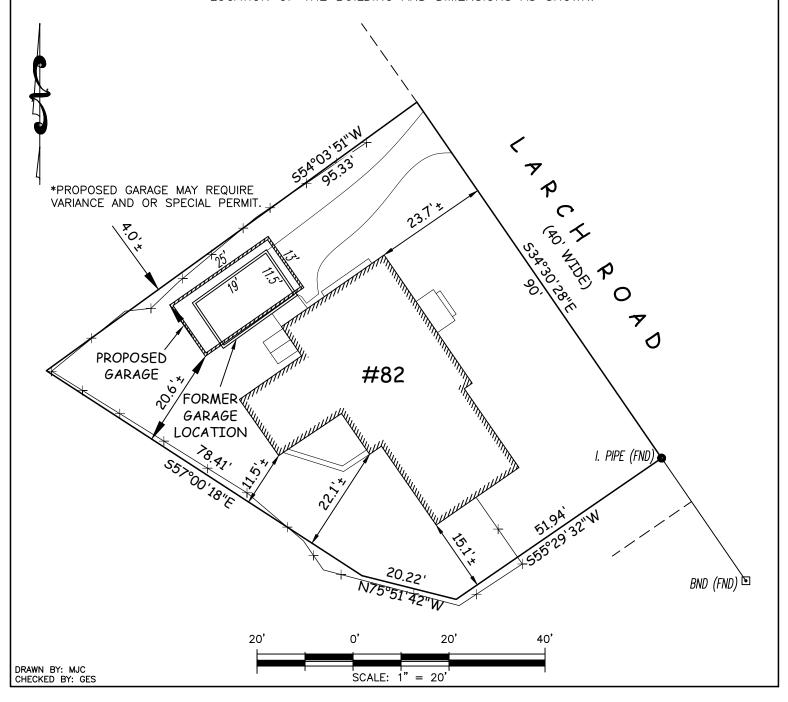
PLAN REFERENCE: 293/17

ZONE: RES B

MINIMUM FRONT SETBACK: 15' MINIMUM SIDE SETBACK: 7.5(SUM 20)'

MINIMUM REAR SETBACK: 25

I CERTIFY THAT THIS PLAN FULLY AND ACCURATELY DEPICTS THE LOCATION OF THE BUILDING AND DIMENSIONS AS SHOWN.





City of Cambridge

Board of Appeal (BZA)

Re: Garage building permit for 82 Larch Road, Cambridge. MA 02138

To Whom It May Concern

I am Judith S. Weinstock, and I own the property at Larch Road in Cambridge, which is adjacent to 82 Larch from the north side.

I understand that Fawwaz Habbal, the owner of the property at 82 Larch Road would like to build a new garage, replacing the old one and that the new structure is 4 feet from the fence separating our properties, which is about 2 ft closer to the fence, whereas the Zone regulation requires a minimum distance of 7.5 ft.

There is no concern from my side to having the garage at this new location and I do not anticipate any hardship for me or my family.

This letter should serve as an indication for my consent.

Thank you very much.

Judith S. Weinstock

88 Larch Road, Cambridge, MA 02138

112 Larch Rd 249-14 247-216 99 Larch Rd247-222 249-15 108 Larch Rd106 Larch Rd 247-218 97 Larch Rd 247-223 249-153 249-16 104 Larch Rd and Rd 102 Larch Rd Rd 95 Larch Rd 93 Larch Rd 247-224 91 Larch Rd 247-181 249-17 249-136 100 Larch Rdg8 Larch Rd 89 Larch Rd 247-11 247-180 249-18 0 Larch Rd 249-137 247-179 249-203 247-10 73 Fresh Pond Pkwy 88 Larch Rd 83 Larch Rd81 Larch Rd 247-178 82 Larch Rd 249-48 65 Fresh Pond Pkwy 249-60 arch Rd 249-202 63 Fresh Pond Pkwy 71 Larch Rd₂₄₇₋₂₂₅ 249-22 80 Larch Rd 61 Fresh Pond Pkwy 249-62 55 Fresh Pond Pkwy249-61 51 Fresh Pond Pkwy 67 Larch Rd 247-203 250-139 ROAD Fresh Pond Pkwy 250-138 Larchwood Dr 250-24 54 Fresh Pond Pkwy 50 Fresh Pond Pkwy 250-40 250-216 250-23 2 Larchwood Dr 247-72 3 Meadow Way

247-10 CLEARY, KATHLEEN O., TRUSTEE OF CAMBRIDGE NOMINEE TRUST 83 LARCH RD. CAMBRIDGE, MA 02138

247-11 CALDWELL, SANDRA GAIL 89 LARCH RD. UNIT #1 CAMBRIDGE, MA 02138-3316

249-18
AARON, JONATHAN TRUSTEE &
REBECCA J. FOLKMAN TRUSTEE
100 LARCH RD
CAMBRIDGE, MA 02138

247-9 RILEY, JOHN V. & MARGARET E. GADON 77 LARCH RD CAMBRIDGE, MA 02138

249-22 SCHNEIDER, MICHAEL R. & JEAN C. KELLEY 61 FRESH POND PKWY CAMBRIDGE, MA 02138 82 Larch Rd.

247-224 TURNER, JOHN H.,JR & HARRIETT T. TAGGART 91 LARCH RD CAMBRIDGE, MA 02138

249-61 AZIM, SHAHID & NADIA AZIM 74 LARCH RD CAMBRIDGE, MA 02138

247-11 CALDWELL, SANDRA GAIL 89 LARCH RD. UNIT#1 CAMBRIDGE, MA 02138

247-11 CALDWELL, SANDRA GAI 89 LARCH RD CAMBRIDGE, MA 02138-3316

249-62 KHEIRANDISH, ELAHEH & HORMOZ GOODARZY 80 LARCH RD CAMBRIDGE, MA 02138 249-60 HABBAL, FAWWAZ 82 LARCH RD CAMBRIDGE, MA 02138

249-203 WEINSTOCK, JUDITH S. 88-90 LARCH ROAD CAMBRIDGE, MA 02138-3317

249-202 MILDWOFF MINNIE & NICHOLAS B. MILDWOFF 63 FRESH POND PKWY CAMBRIDGE, MA 02138

249-48 SCHATZOW EMILY TR 65 FRESH POND PKWY CAMBRIDGE, MA 02138

BZA APPLICATION FORM - OWNERSHIP INFORMATION

To be completed by OWNER, signed before a notary and returned to The Secretary of the Board of Zoning Appeals.

I/Me Fawwaz HABBAL
Address: 82 Larch Read, Cambridge, MA 02138
Address: 02 Luvin Ruid, Cambridge, 1111 02138
State that I/We own the property located at 82 Larch Road, Cambride, MAO2138
which is the subject of this zoning application.
The record title of this property is in the name of
*Pursuant to a deed of duly recorded in the date July 16, 2019, Middlesex South
County Registry of Deeds at Book 72933 , Page 0174 ; or
Middlesex Registry District of Land Court, Certificate No
BookPage
Fawwoz Hallal
SIGNATURE BY LAND OWNER OR AGENT*
*Written evidence of Agent's standing to represent petitioner may be requested.
" man' dissi dissi cont costs cont costs costs (see insell'insel insell'insel insell'insel insell'in
Commonwealth of Massachusetts, County of Middlesex
this 4th of August, 2021, and made oath that the above statement is true.
Motary
My commission expires 0/-28-2021 (Notary Seal). THERESA KAUFMAN Notary Public Commonwealth of Massachusetts My Commission Expires January 28, 2022

• If ownership is not shown in recorded deed, e.g. if by court order, recent deed, or inheritance, please include documentation.

Pacheco, Maria

From:

kate cleary < kateocleary@gmail.com>

Sent:

Monday, November 1, 2021 3:21 PM

To:

Pacheco, Maria

Subject:

BZA- 140869

To the Board of Zoning

I am writing in response to Case # BZA-140869, in regards to constructing a new attached garage in violation of the setbacks from the dwelling and property line.

While the structure is architecturally appealing my concern is as follows. To move/ add on to the existing garage footprint an additional 2' is a lot in this space. It is **literally** in the front door of the next door neighbors home seems extremely tight, not to mention the neighbors that are kitty corner on Fresh Pond Parkway. The neighboring home is situated so that the front door faces the intended new garage (it was built so that the side of the house faces Larch Road with no driveway etc). This home that is making the request has been under construction for the past 24 months and garage was torn down a while ago.

Most importantly, in a neighborhood that is dense as it is, granting variances like these (and the one you recently granted in the past 6 months two doors down #BZA-97200) is unfortunately changing the character of the neighborhood. **When people purchase homes, they know what they are buying, property lines and all.** To make a case based on variances that are granted in other towns should not be the case in Cambridge.

Kate Cleary 83 Larch Road