## **111 GORDON ROAD ADDITION**

WABAN, MASSACHUSETTS 02468

## **APRIL 1, 2021 PERMIT SET**

GENERAL NOTES. STANDARDS AND CONDITIONS:

CODES:

2015 INTERNATIONAL RESIDENTIAL BUILDING CODE 780CMR MASSACHUSETTS STATE BUILDING CODE 9TH EDITION CITY OF NEWTON ZONING ORDINANCES SECTION 30

GENERAL NOTES:

- 1. ALL PERMITS AND LICENSES SHALL BE SECURED BY THE CONTRACTOR. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MA STATE BUILDING CODE AND ALL OTHER CODES, ORDINANCES AND STANDARDS NOTED ABOVE. CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES IN THE CONTRACT DOCUMENTS AND PROCEED AFTER THEY ARE RESOLVED.
- 2. CONTRACTOR AND ALL SUBS SHALL BE LICENSED AND PRESENT ADEQUATE GENERAL LIABILITY AND WORKMANS
- COMP INSURANCE TO THE OWNER AND ARCHITECT. 3. CONTRACTOR SHALL PREPARE A SCHEDULE OF VALUES AND SUBMIT PERCENTAGES OF COMPLETION ALONG WITH
- THE MONTHLY REQUISITION FOR PAYMENT. 4. CONTRACTOR SHALL COORDINATE ALL ARCHITECTURAL, STRUCTURAL, MEP/FP, CIVIL AND LANDSCAPE WORK PERFORMED BY SUBCONTRACTORS IN ACCORDANCE WITH THE INTENT OF THE CONTRACT DRAWINGS AND SUBMIT SHOP DRAWINGS DEMONSTRATING COORDINATION AND UNDERSTANDING.
- 5. ALL NOTATIONS AND INDICATIONS ON THE DRAWINGS APPLYING TO ONE AREA OR CONDITION SHALL APPLY TO OTHER SIMILAR AREAS OR CONDITIONS ON THE DRAWINGS UNLESS OTHERWISE NOTED. 6. PROVIDE SEALANT AT ALL INTERIOR AND EXTERIOR JOINTS, TYPICAL.
- 7. PROVIDE FLASHINGS AT ALL OPENINGS, WINDOWS, DOORS, CONNECTIONS AND TRANSITIONS TO INSURE A WATERTIGHT BUILDING WIDE INSTALLATION. 8. PROVIDE ALL ACCESS PANELS AS REQUIRED BY CODE AND REQUIRED BY ARCHITECTURAL, MEP/FP EQUIPMENT AND
- INSTALLATIONS WHETHER OR NOT INDICATED ON THE PLANS. ACCESS PANELS SHALL BE FLUSH AND LOCATIONS COOR-DINATED WITH THE ARCHITECT.
- 9. ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS AND FLOORS SHALL BE FIRE STOPPED AND SMOKE SEALED WITH AN APPROVED RATED ASSEMBLY OR WITH MECHANICAL FIRE DAMPERS.

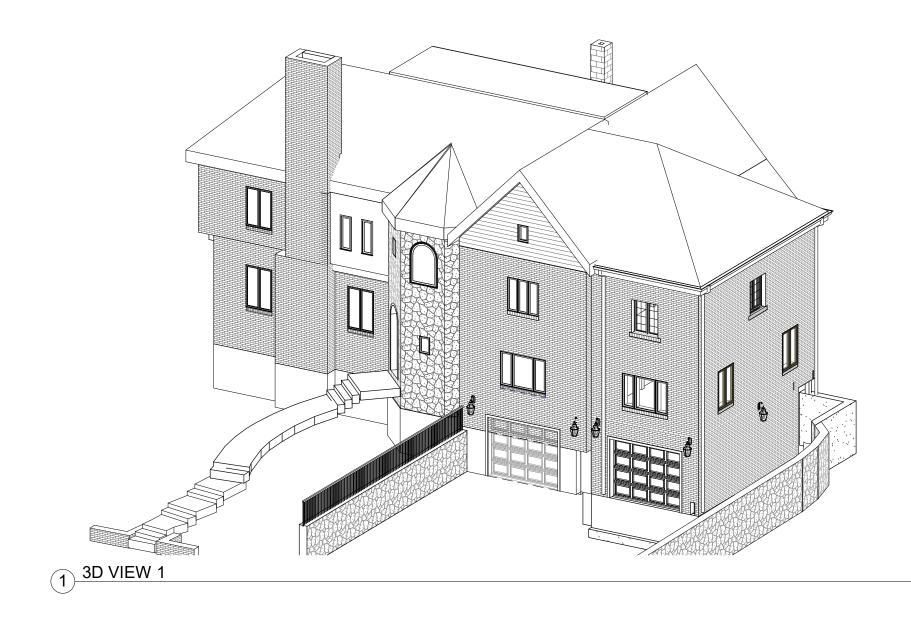
SITE WORK/EXISTING CONDITIONS

- 1. TEMPORARY SHORING: PROVIDE AND MAINTAIN SHORING, BRACING AND STRUCTURAL SUPPORTS AS REQUIRED TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF CONSTRUCTION AND FINISHES TO REMAIN AND/OR UNCONTROLLED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED. EXCAVATION AND SHORING SHALL BE DONE IN ACCORDANCE WITH OSHA REGULATIONS.
- 2. TEMPORARY FACILITIES: PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION REQUIRED TO PREVENT INJURY TO PEOPLE, DAMAGE TO ADJACENT PARCELS AND/OR FACILITIES TO REMAIN.
- 3. UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS: MAINTAIN AS REQUIRED FOR OCCUPIED FACILITIES AND/OR CAPPED/DISCONTINUED AS REQUIRED. 4. HAZARDOUS MATERIALS: IF ENCOUNTERED OWNER SHALL REMOVE UNDER A SEPARATE CONTRACT.
- 5. CONTRACTOR SHALL PROTECT ALL ON-SITE ITEMS AND MATERIALS FROM WEATHER AND MOISTURE. THIS INCLUDES PROTECTING THE BUILDING FROM WEATHER AND MOISTURE THROUGHOUT THE COURSE OF
- CONSTRUCTION DURING WHICH TIMES THE BUILDING IS EXPOSED. 6. CONTRACTOR SHALL IMPLEMENT A STRATEGY FOR DRYING MATERIALS AND PRODUCTS PRIOR TO INSTALLATION WHICH MAY HAVE A HIGH MOISTURE CONTENT.

DEMOLITION, CONSTRUCTION WASTE MANAGEMENT, NOISE MITIGATION, DUST 1. OFFSITE DISPOSAL SHALL BE DEPOSITED, RECYCLED OR RECLAIMED IN A LANDFILL ACCEPTABLE TO

AUTHORITIES HAVING JURISDICTION. 2. CONTRACTOR SHALL MITIGATE TO THE EXTENT POSSIBLE DUST, DEBRIS AND NOISE THROUGHOUT THE DEMOLITION AND CONSTRUCTION PROCESS. THE SITE SHALL BE MAINTAINED IN AN ORDERLY CONDITION ON A DAILY BASIS INCLUDING ALL SURROUNDING AREAS AND ADJACENT PARCELS AFFECTED BY THE SCOPE OF WORK.

2 GENERAL NOTES 1/4" = 1'-0"



### PROPOSED BUILDING AREA CALCULATION

BASEMENT
FIRST FLOOR
SECOND FLOOR
TOTAL

301 GSF 301 GSF 348 GSF 950 GSF

# **DRAWING INDEX**

A-001 COVER SHEET

SITE SURVEY AND CIVIL EXISTING SITE PLAN &

### ARCHITECTURAL

D100 DEMOLITION PLANS A100 BASEMENT PLAN PROPOSED GARAGE A101 FIRST FLOOR FAMILY ROOM & SECOND FLOOR **BEDROOM PLAN** A102 ROOF PLAN & REFLECTED CEILING PLANS A201 BUILDING ELEVATIONS A301 BUILDING SECTIONS A401 WALL TYPES & WINDOW DETAILS **STRUCTURAL** S-1 FOUNDATION PLAN, DETAILS & SECTIONS

- S-3 FRAMING PLANS: ATTIC & ROOF S-4 TYPICAL DETAILS
- S-5 FRAMING DETAILS S-6

PROPOSED SITE PLAN (Separate Package)

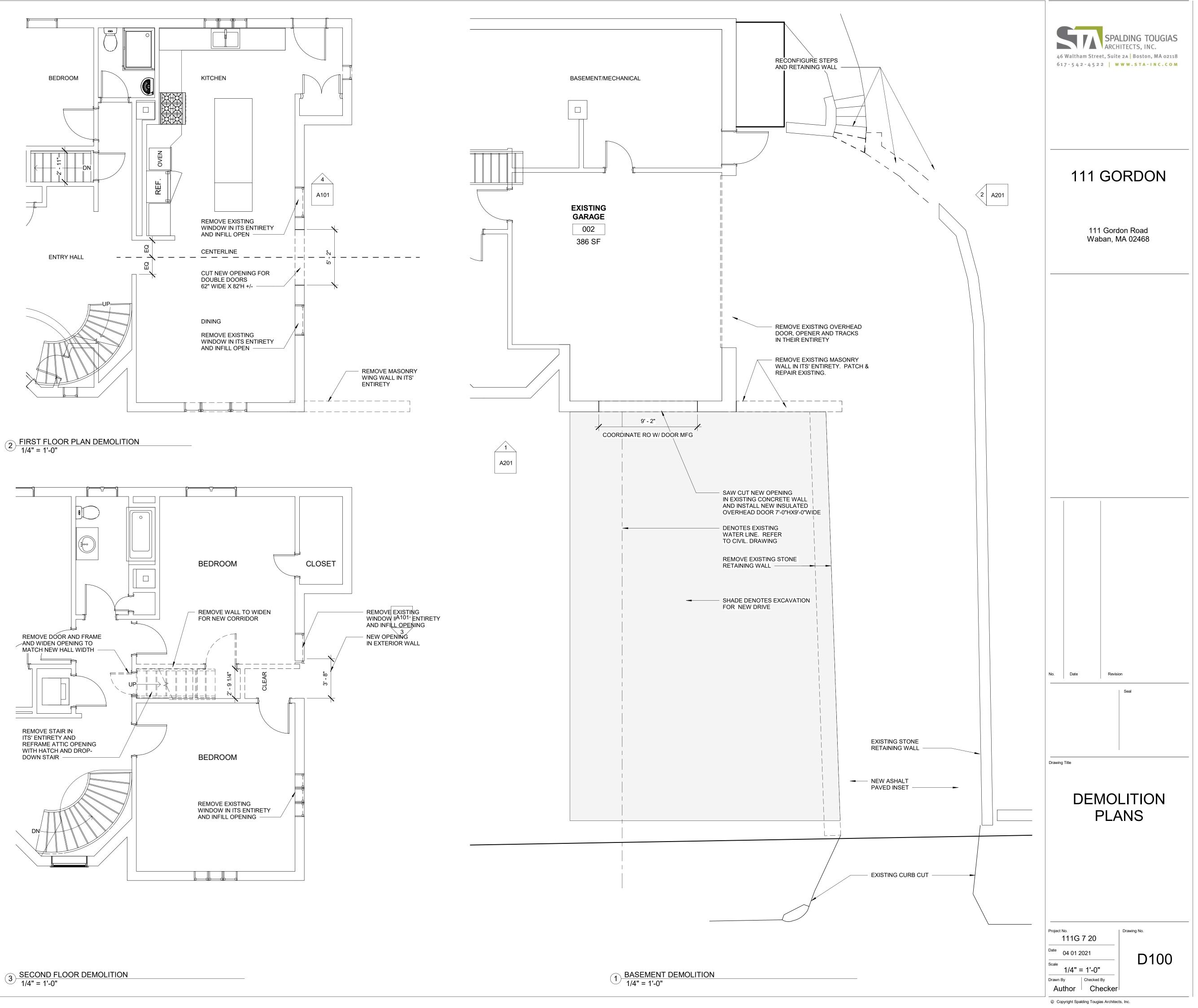
S-2 FRAMING PLANS: FIRST & SECOND FLOORS STRUCTURAL GENERAL NOTES

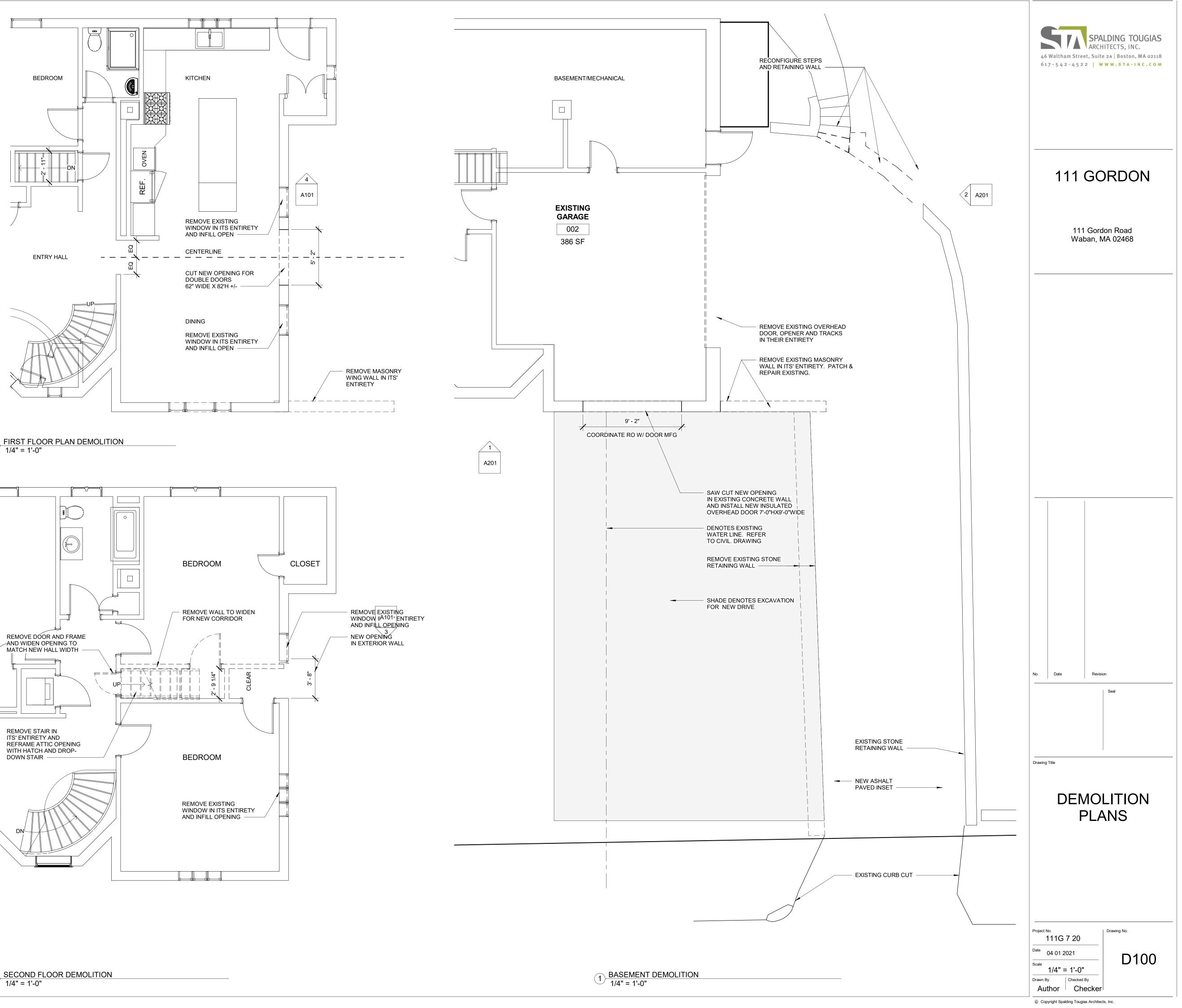


241 A Street, Suite 200 Boston, Massachusetts 02210 617-542-4522

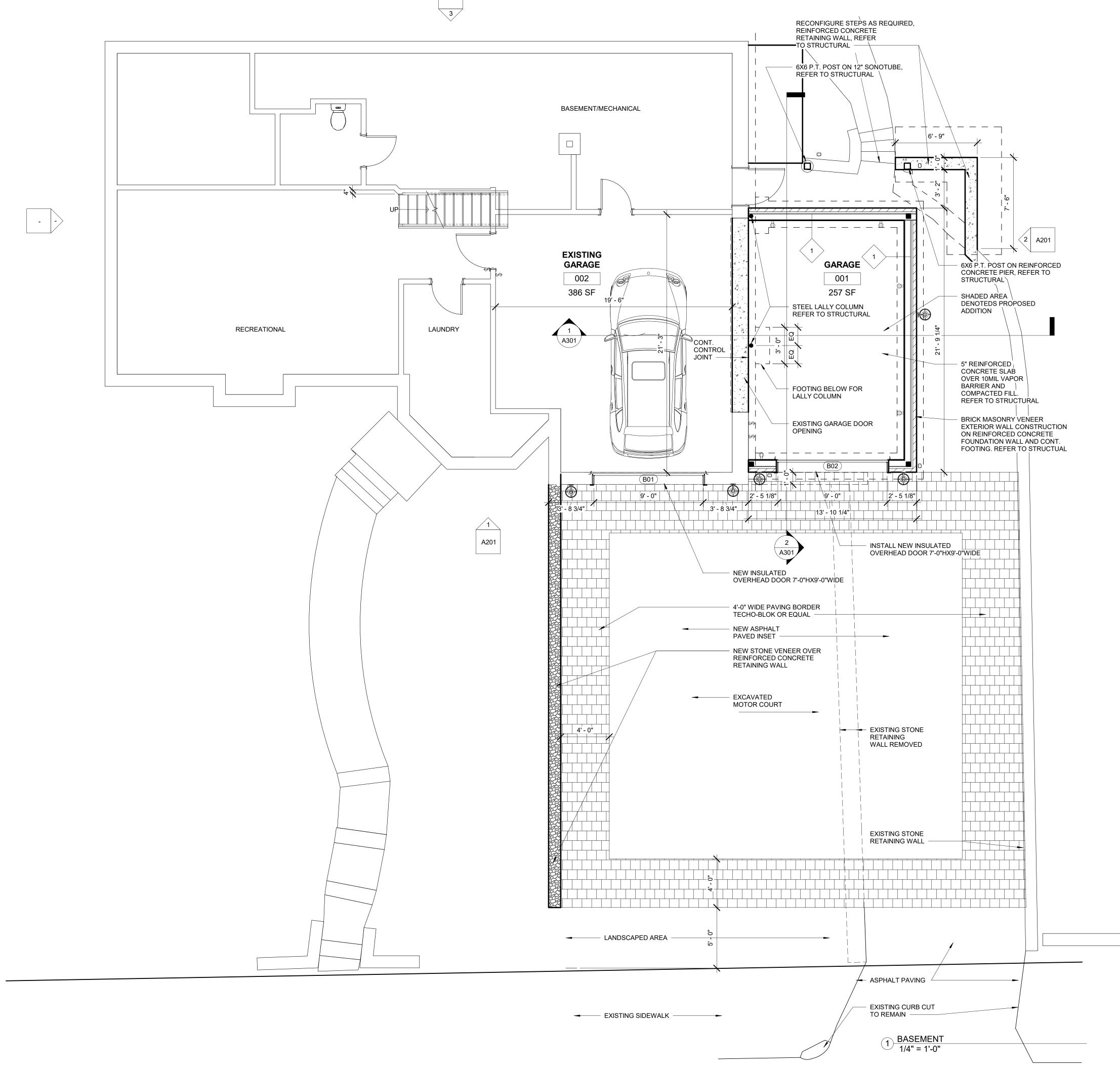
# **111 GORDON**

111 Gordon Road Waban, MA 02468

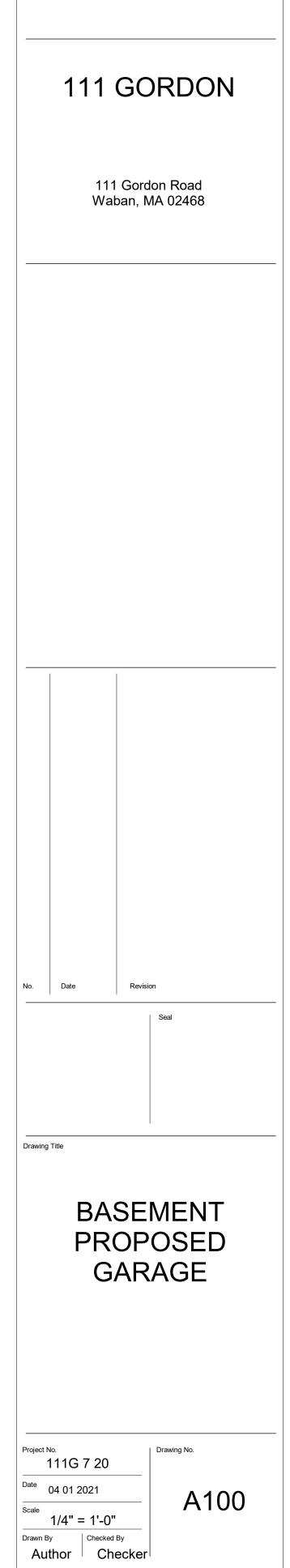




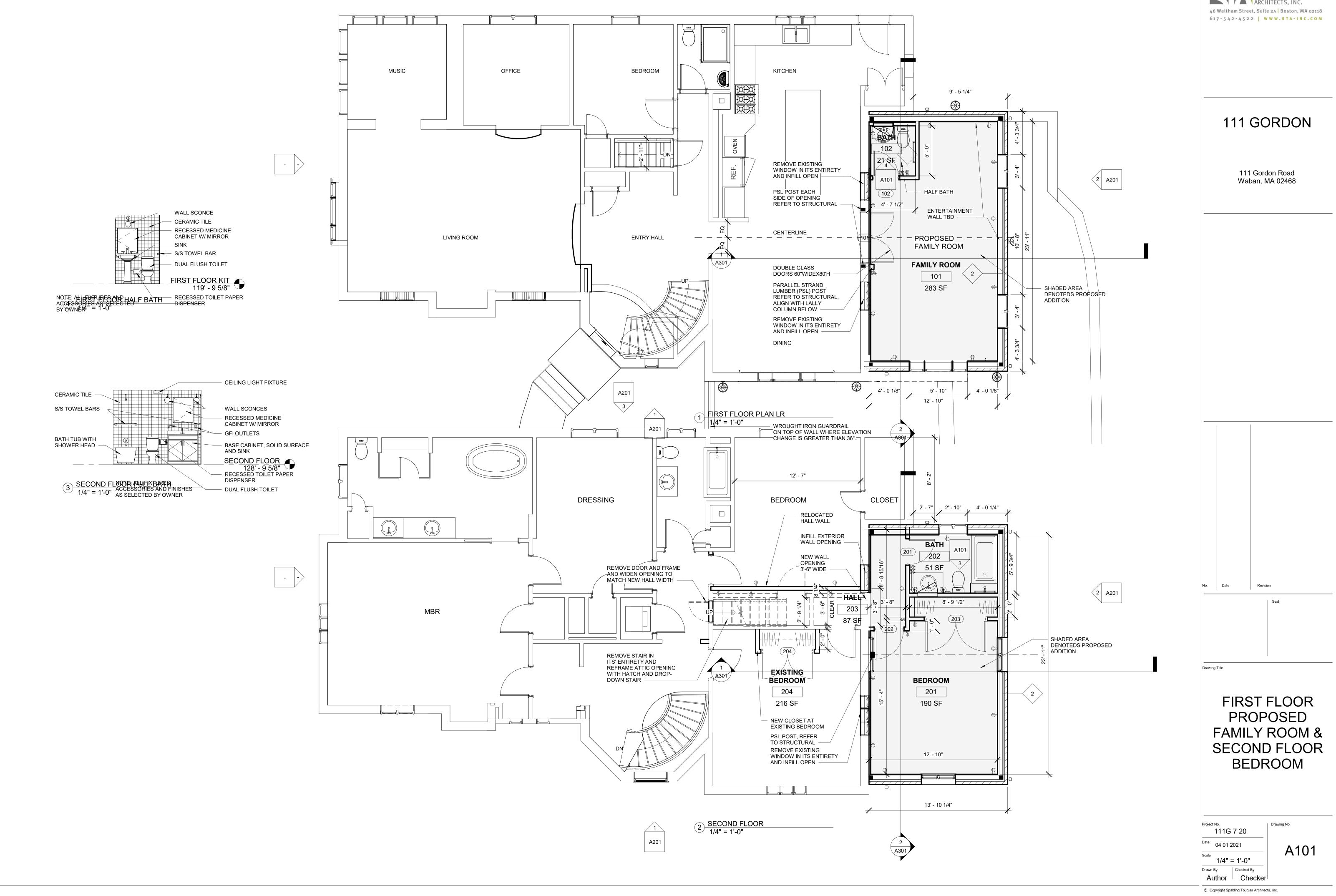


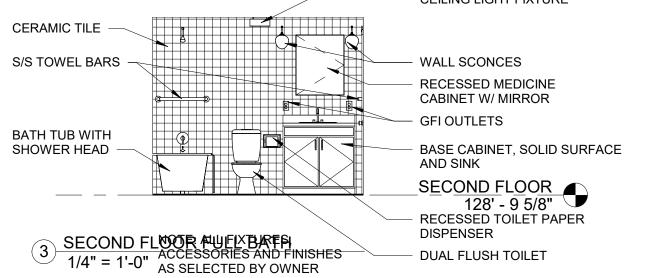


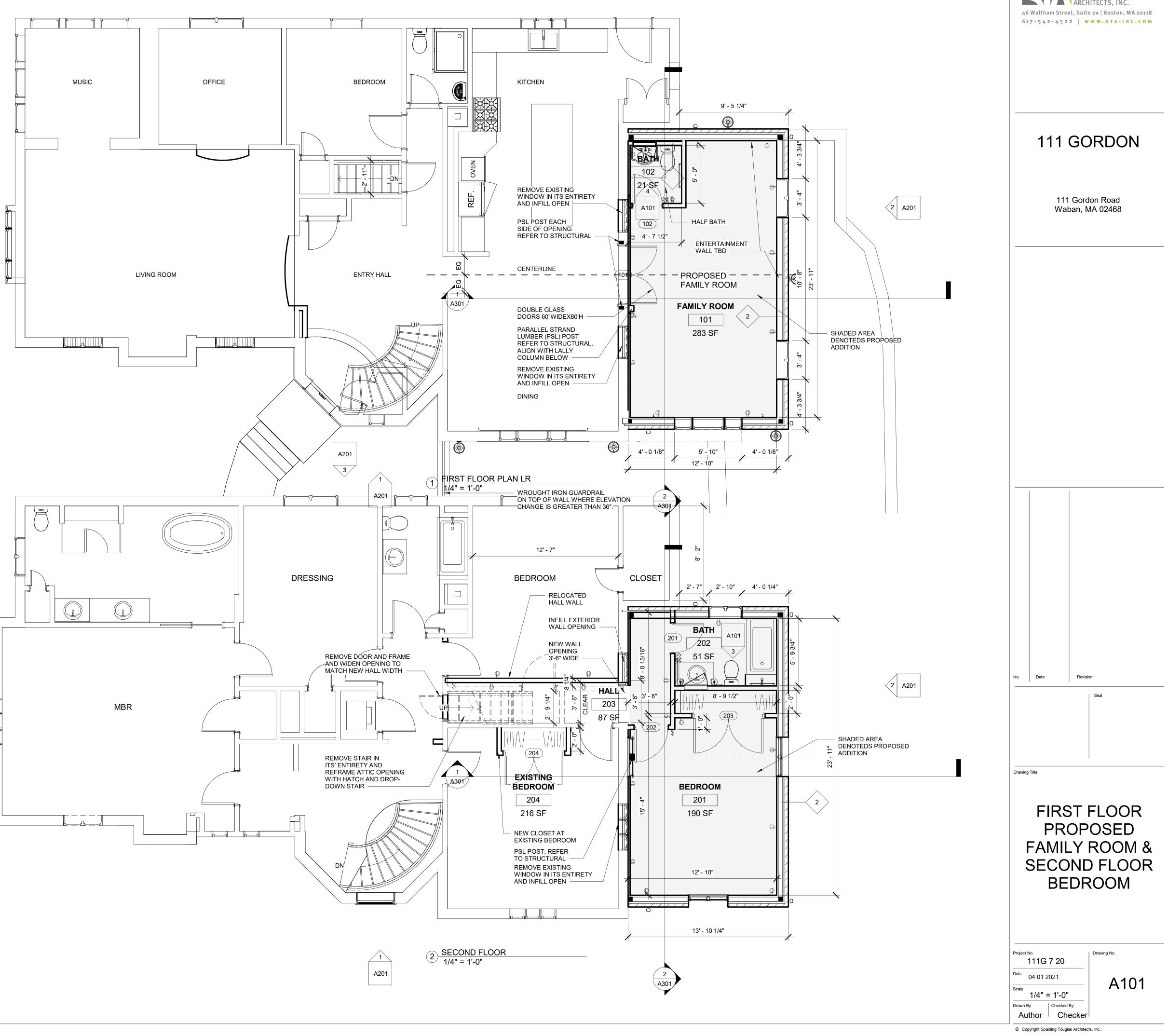




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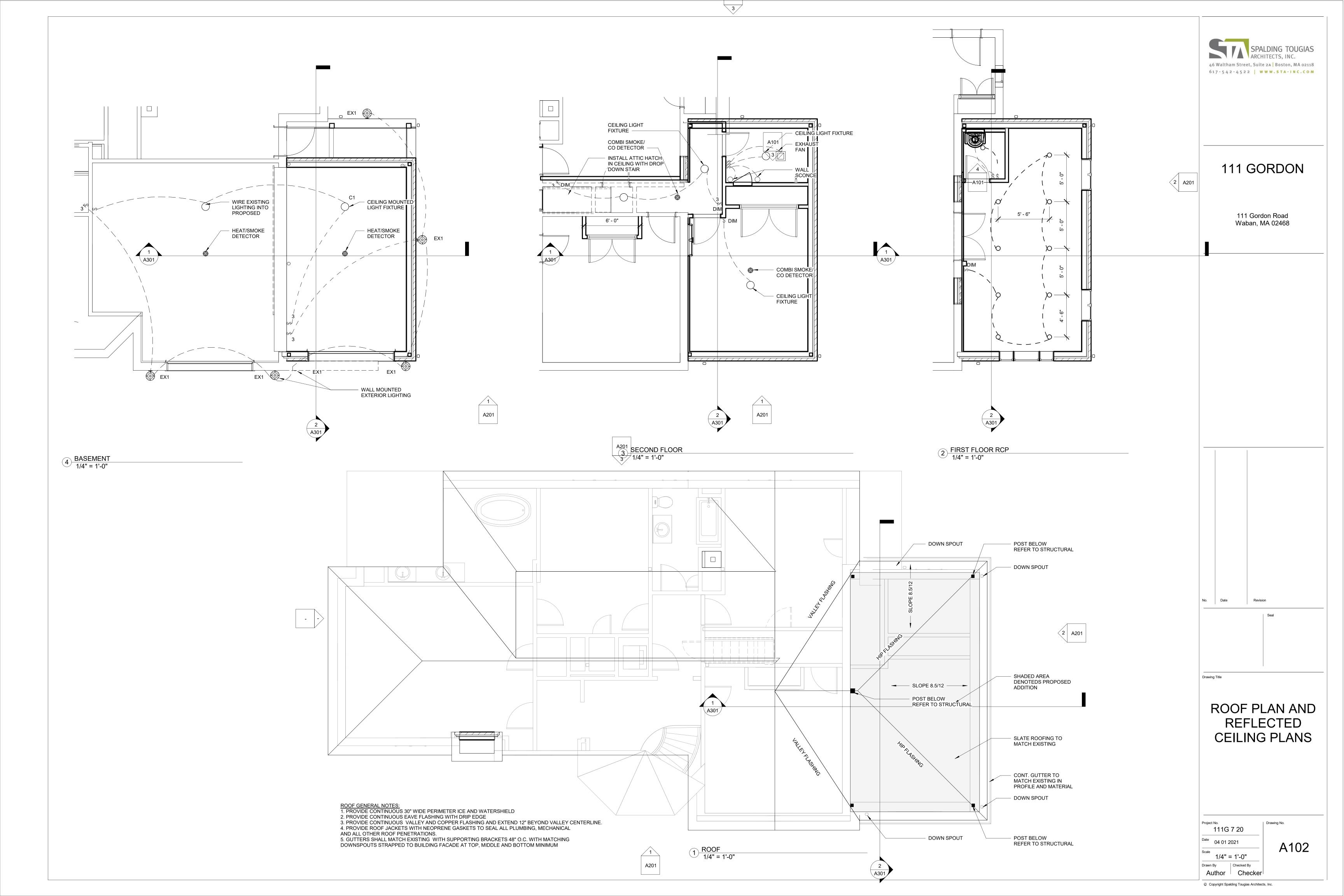






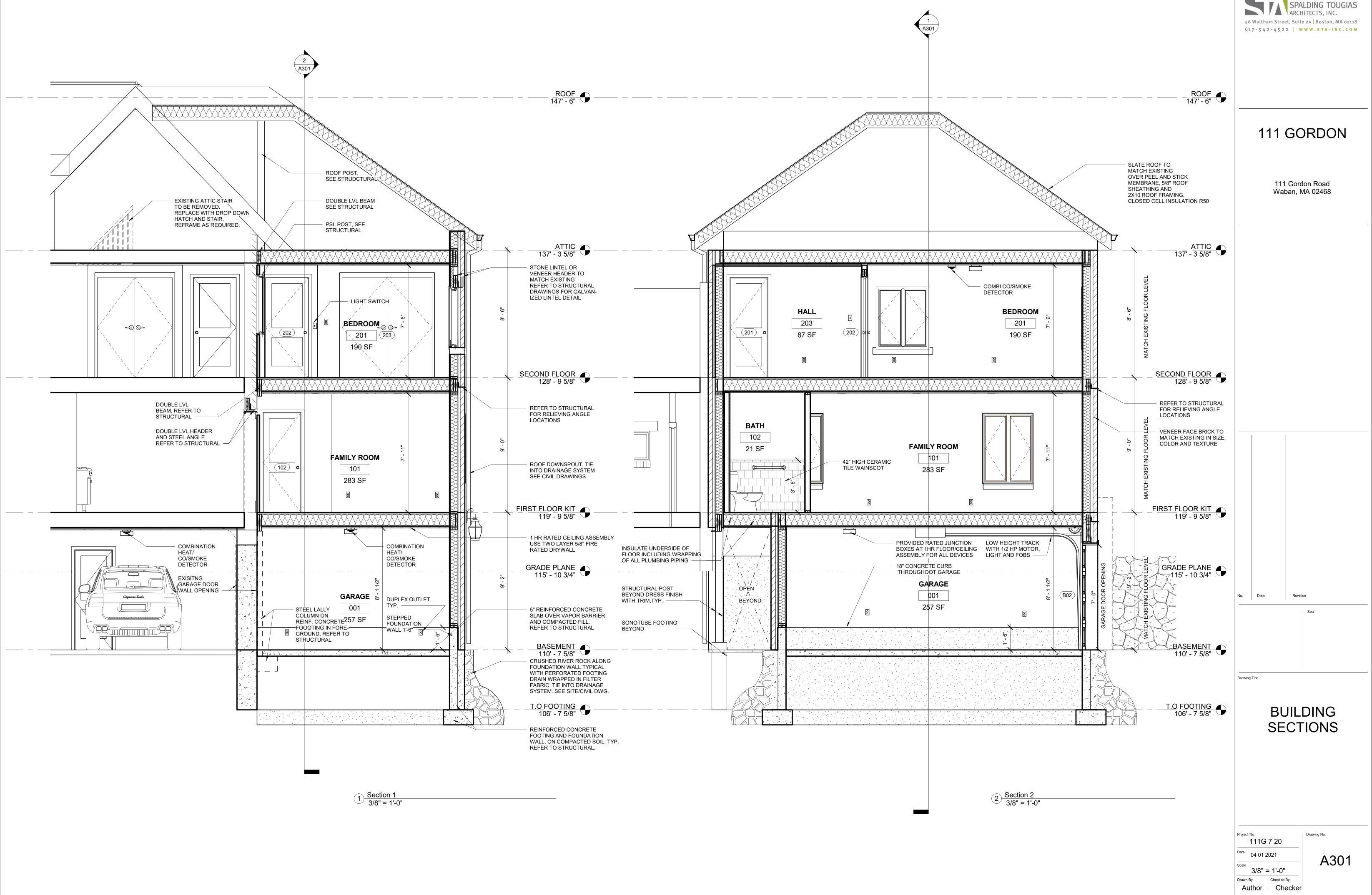




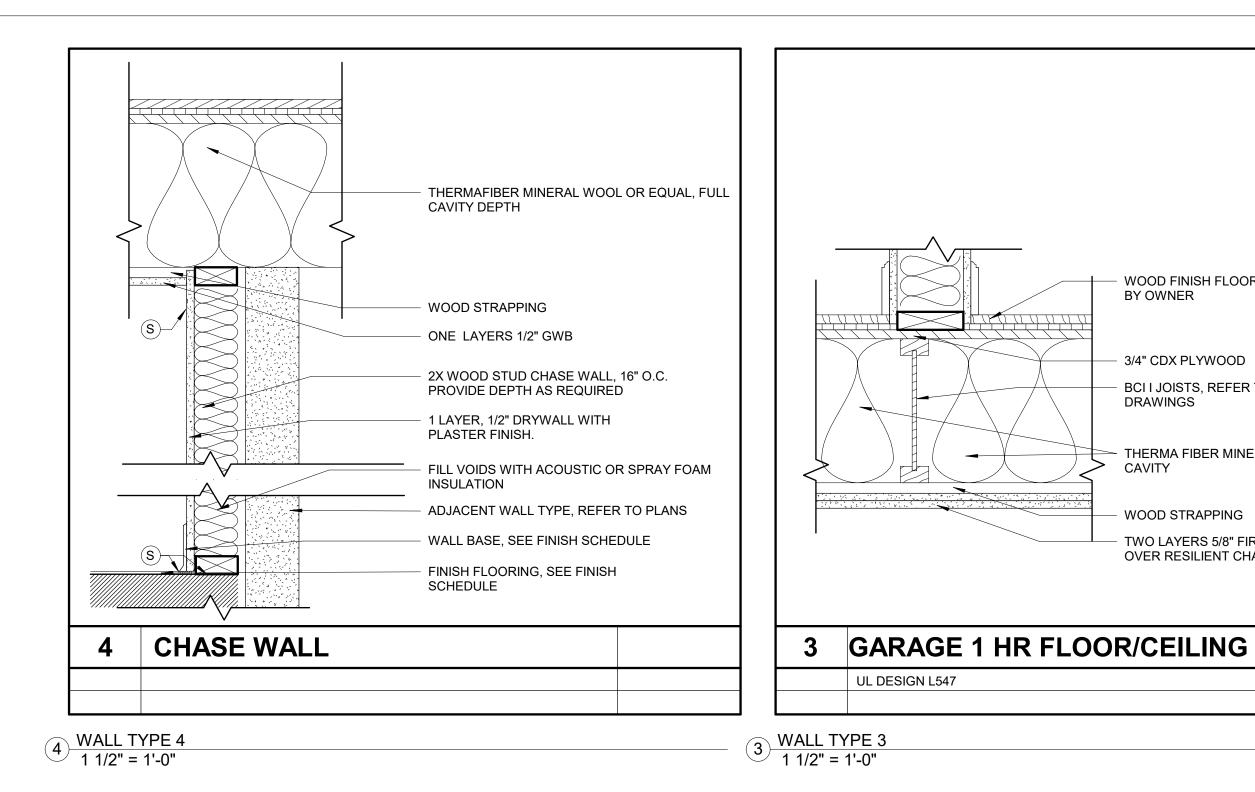




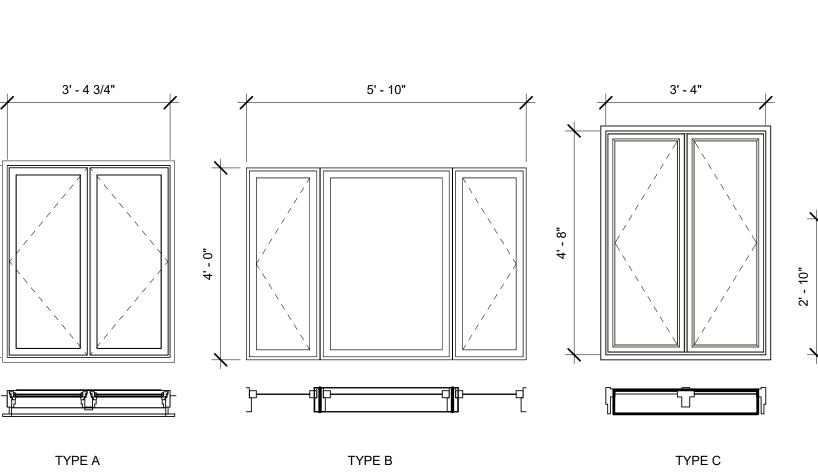




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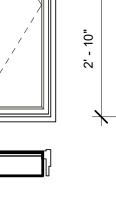


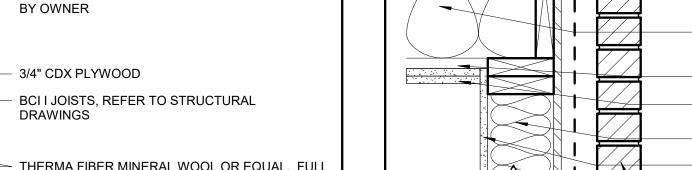
Door Schedule					Room Schedule									
Level	Mark	Width	Height	Frame Type	Finish	Comments	Leve	Number	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Comment
BASEMEN T	B01	9' - 0"	7' - 0"	STEEL TRACK	MFG	MOTOR, TRACK, FOB, LIGHT,WEATHERPROOF	Not Plac BASEM		GARAGE	CONCRETE	CONRETE	ΡΔΙΝΙΤ	PAINT	CO/SMOKE
BASEMEN T	B02	9' - 0"	7' - 0"	STEEL TRACK	MFG	MOTOR, TRACK, FOB, LIGHT, WEATHERPROOF	Т	EN 002	EXISTING	CONORCETE	18"	PAINT		DETECTOR CO/SMOKE
FIRST FLOOR KIT	101	5' - 0"	6' - 8"	WOOD	PAINT	FULL GLASS, TEMPERED, DIVIDED LITES	Т		GARAGE					DETECTOR
FIRST FLOOR KIT	102	2' - 6"	6' - 8"	WOOD	PAINT	PANELS, MATCH EXISTING	FIRST FLOOR PLAN L	101 R	FAMILY ROOM	WOOD	WOOD	PAINT	PAINT	
SECOND FLOOR	201	2' - 6"	6' - 8"	WOOD	PAINT	PANELS, MATCH EXISTING	FIRST FLOOR	102	BATH	CERAMIC TILE	CERAMIC TILE	TILE/PAINT	PAINT	
SECOND FLOOR	202	2' - 10"	6' - 8"	WOOD	PAINT	PANELS, MATCH EXISTING	PLAN L SECON		BEDROOM	WOOD	WOOD	PAINT	PAINT	CO/SMOKE
SECOND FLOOR	203	6' - 0"	6' - 8"	WOOD	PAINT	PANELS, MATCH EXISTING	FLOOR SECON		BATH	CERAMIC	CERAMIC	TILE/PAINT	PAINT	DETECTOR
SECOND FLOOR	204	5' - 0"	6' - 8"	WOOD	PAINT	PANELS, MATCH EXISTING	FLOOR		HALL	TILE	TILE	PAINT	PAINT	CO/SMOKE
LOOK							FLOOR	203		WOOD	WOOD		FAINT	DETECTOR
							SECON FLOOR	204	EXISTING BEDROOM			PAINT		NEW CLOSI



CONFIRM WINDOW SIZE COMPLIES WITH EMERGENCY ACCESS REQUIREMENT MIN 20"W CLEAR X 24"W HIGH AND 5.7 MIN SF OPENING.

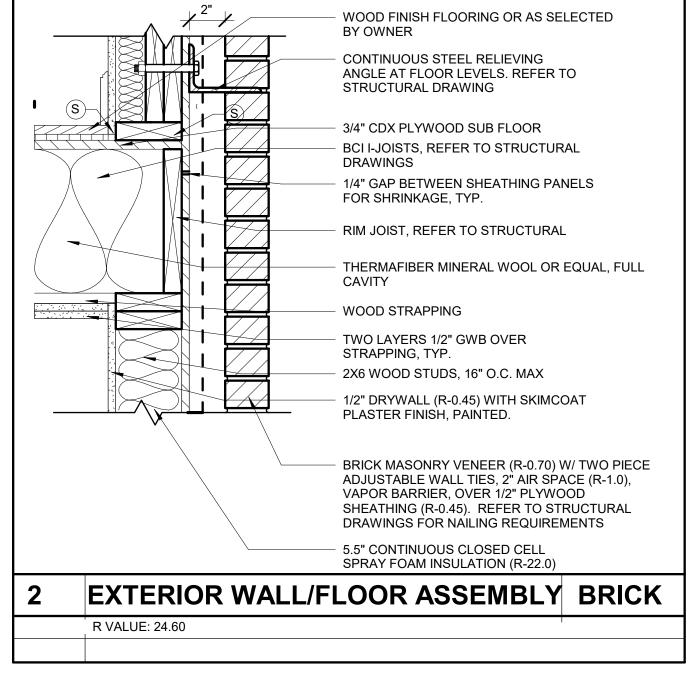
1/2" = 1'-0"

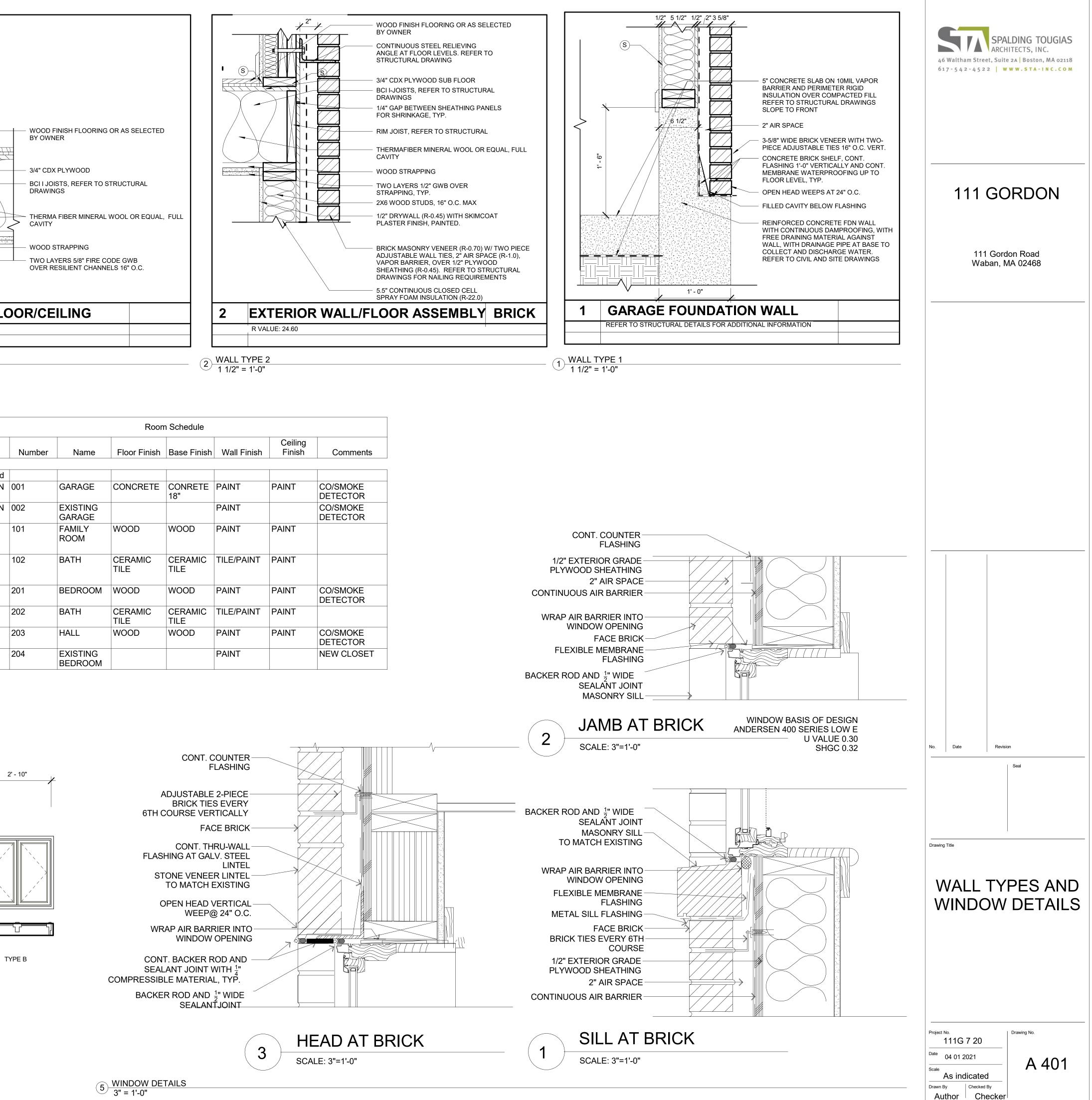




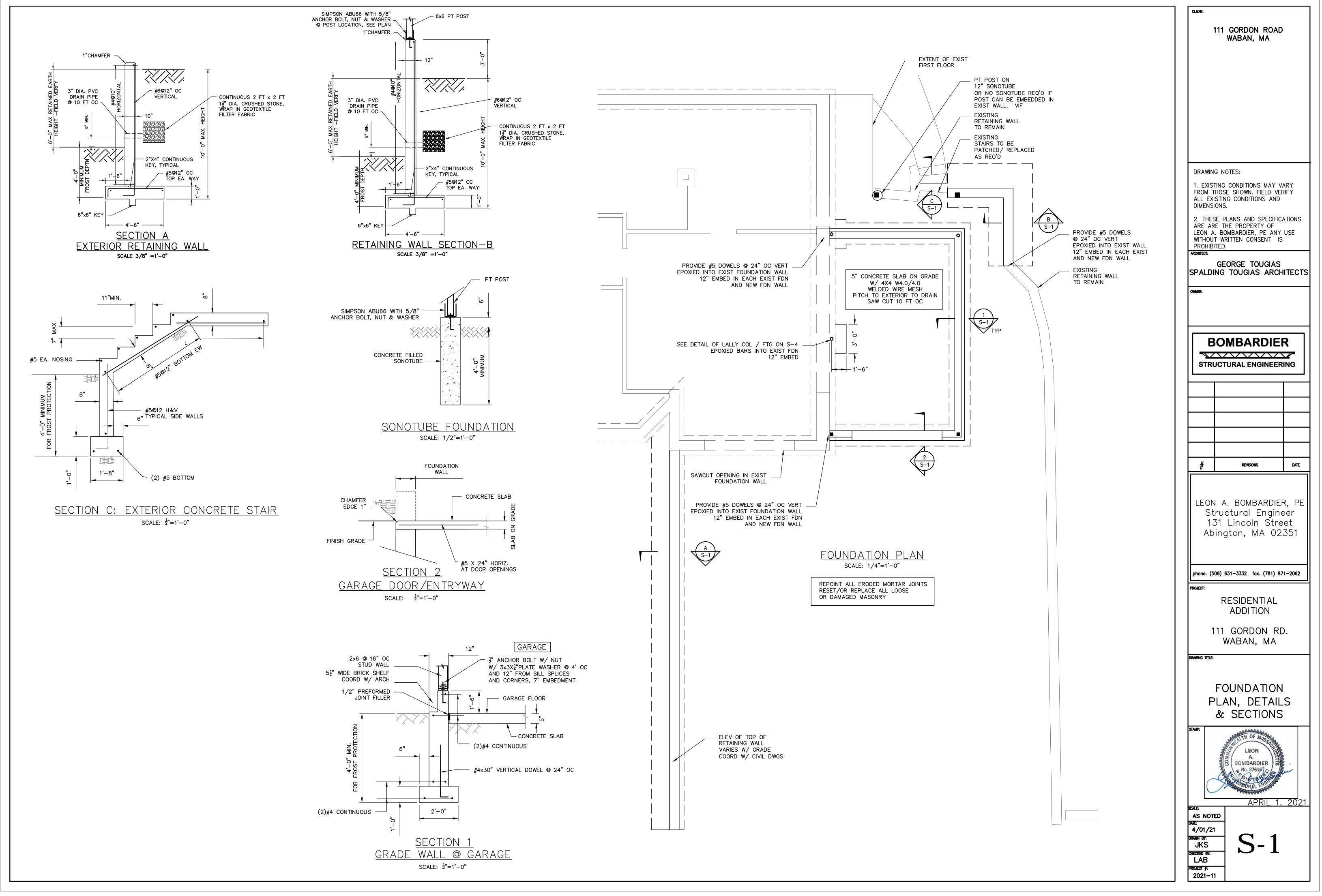


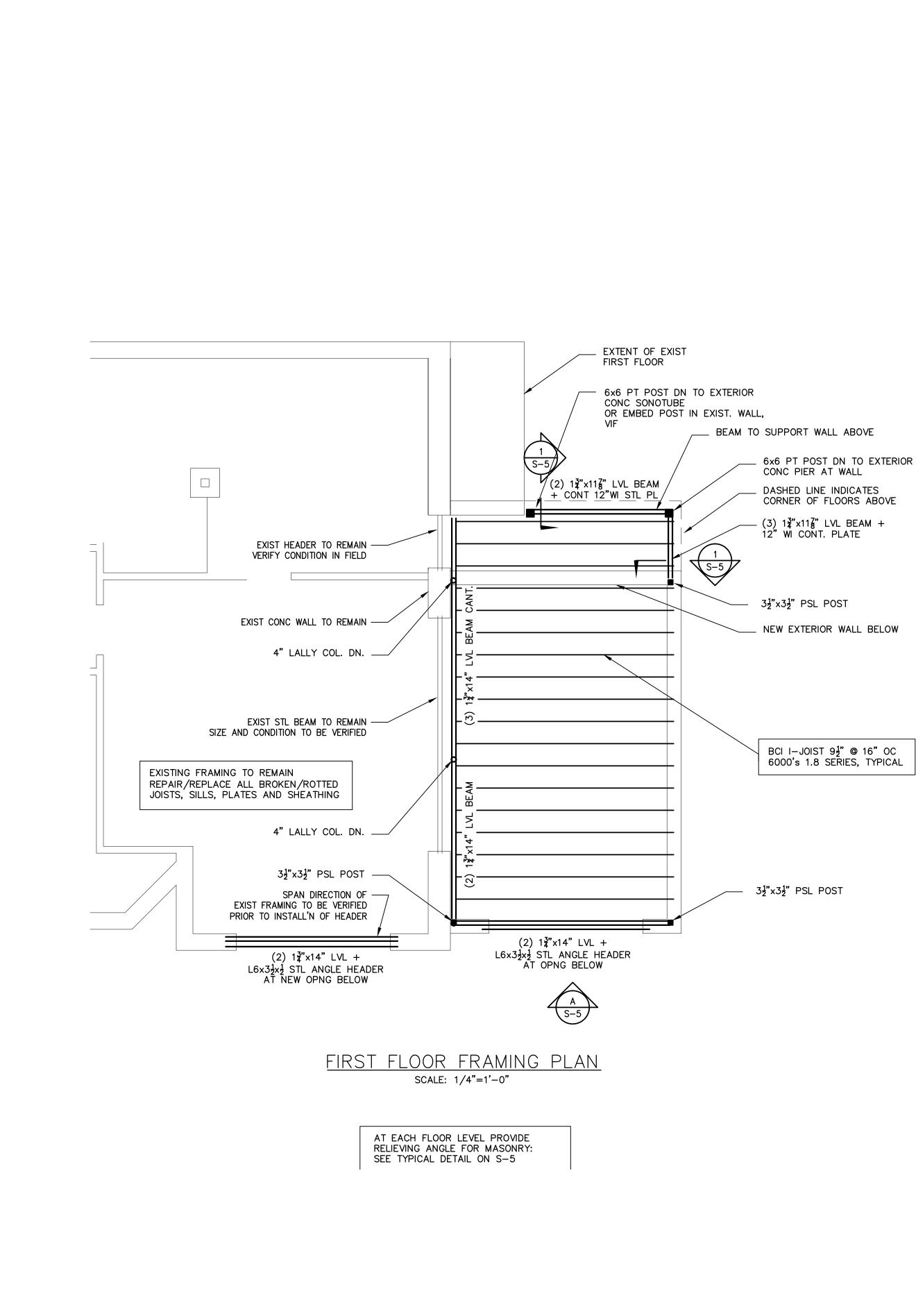
TWO LAYERS 5/8" FIRE CODE GWB

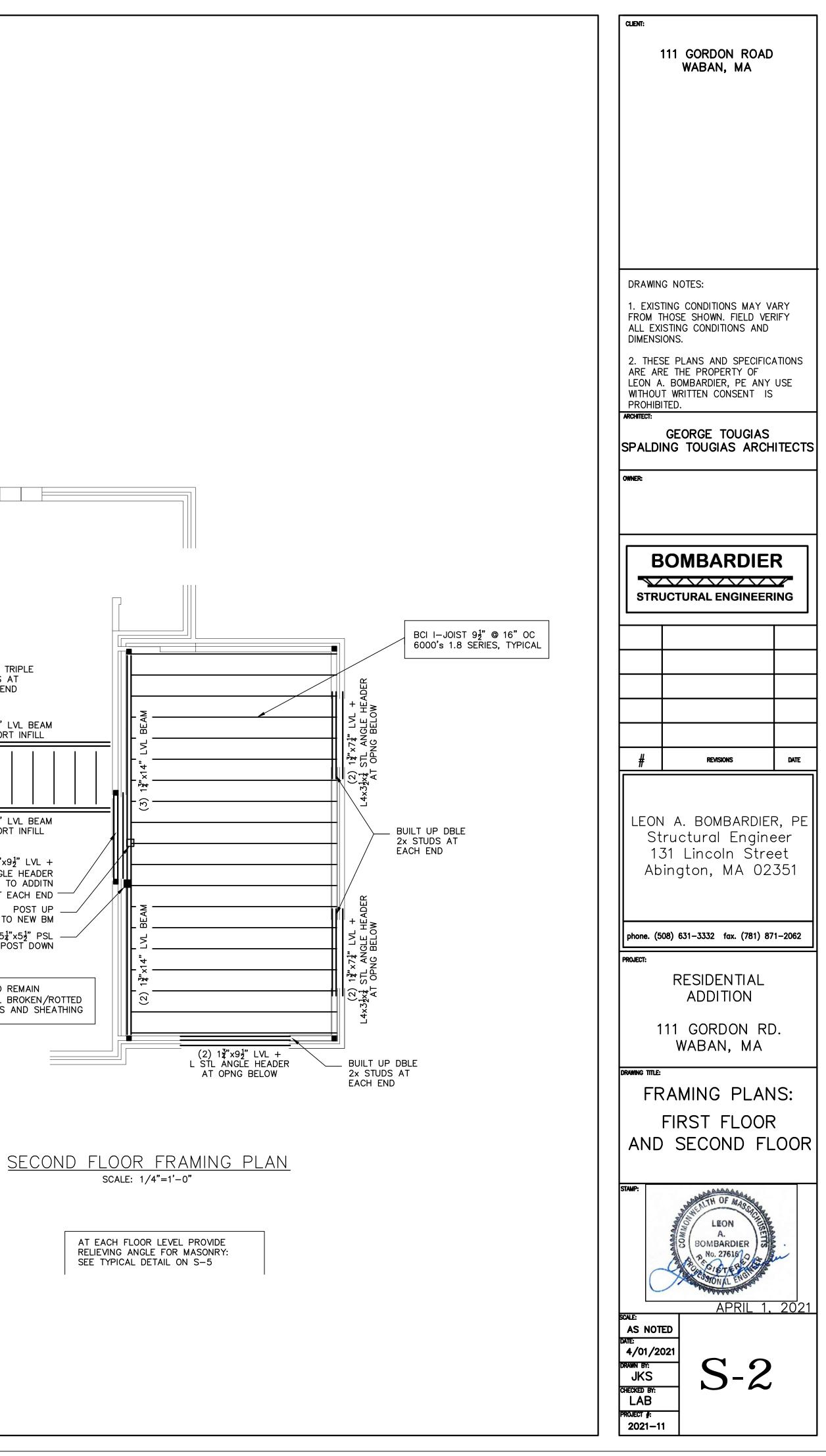


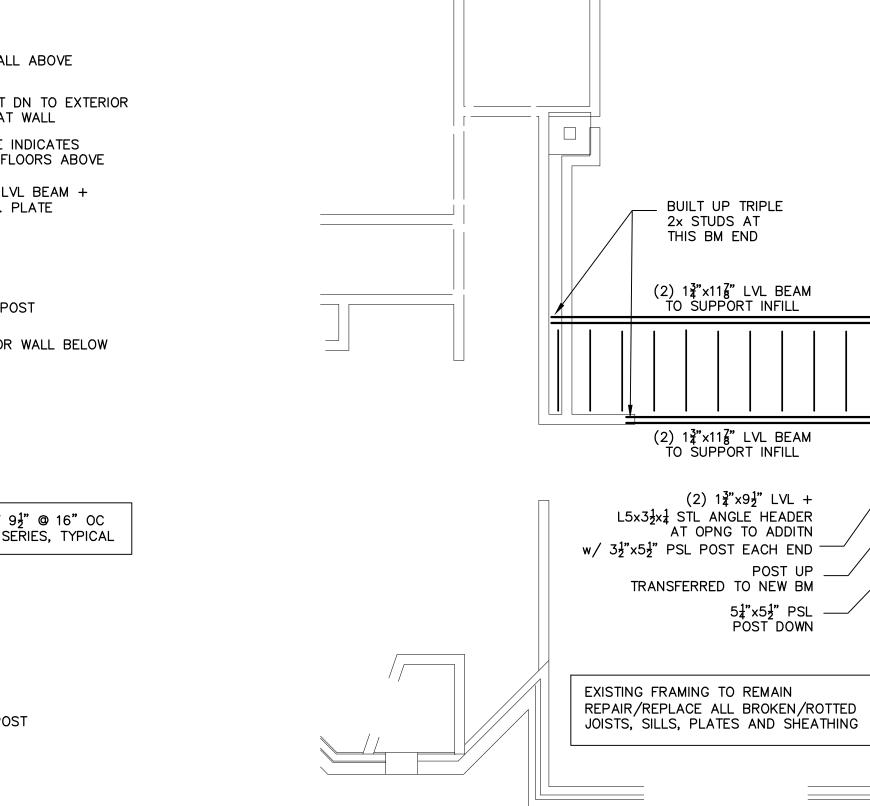


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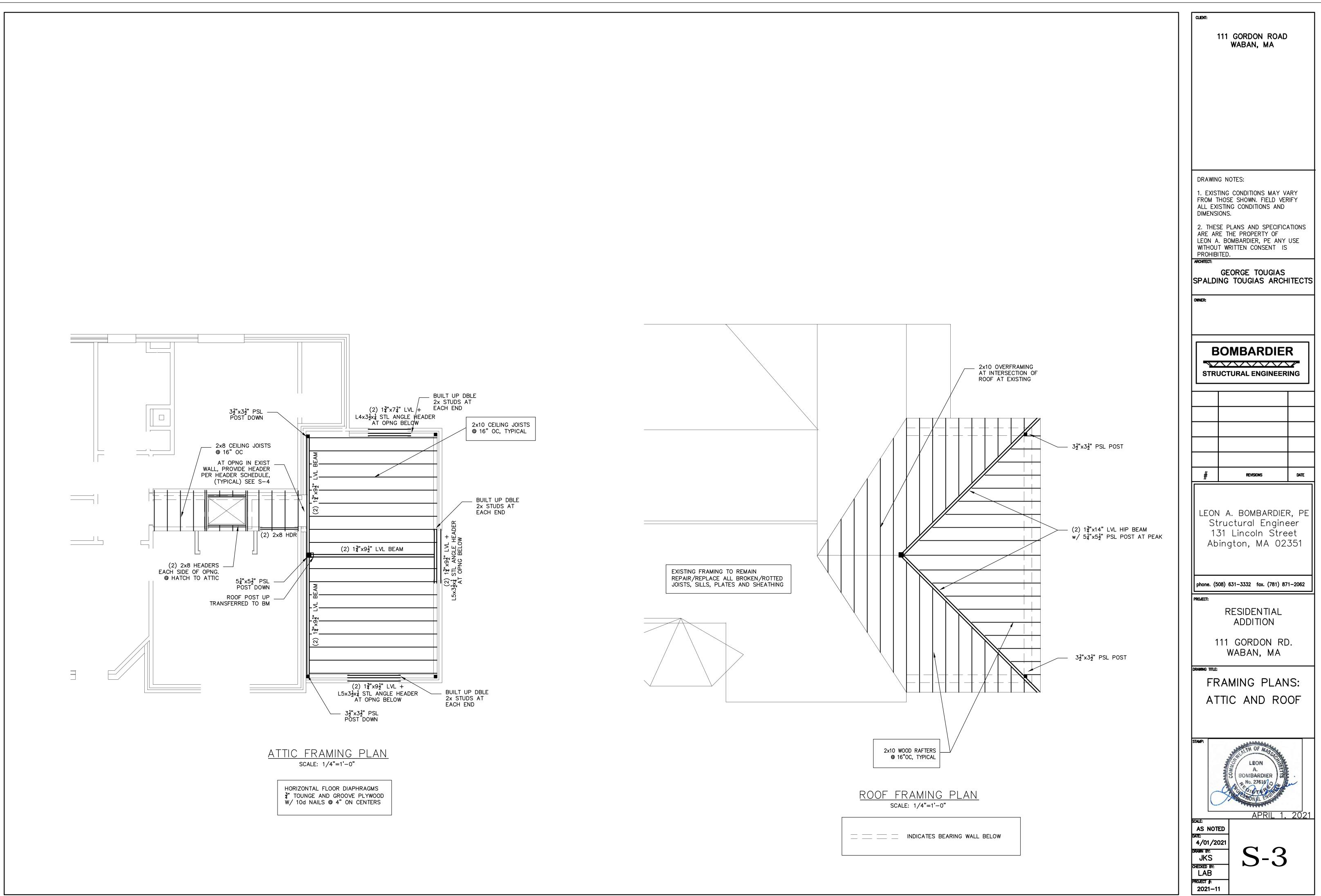


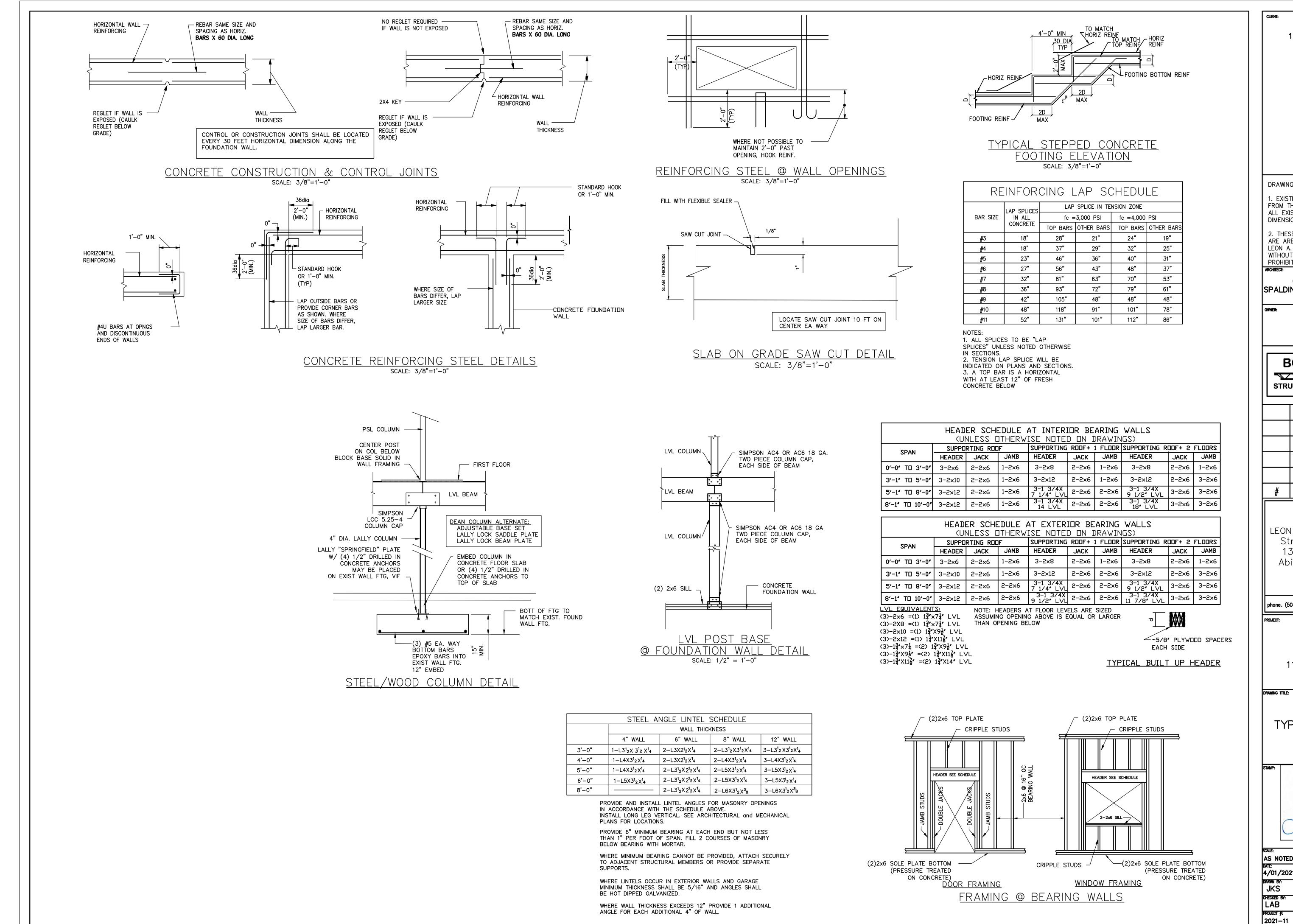






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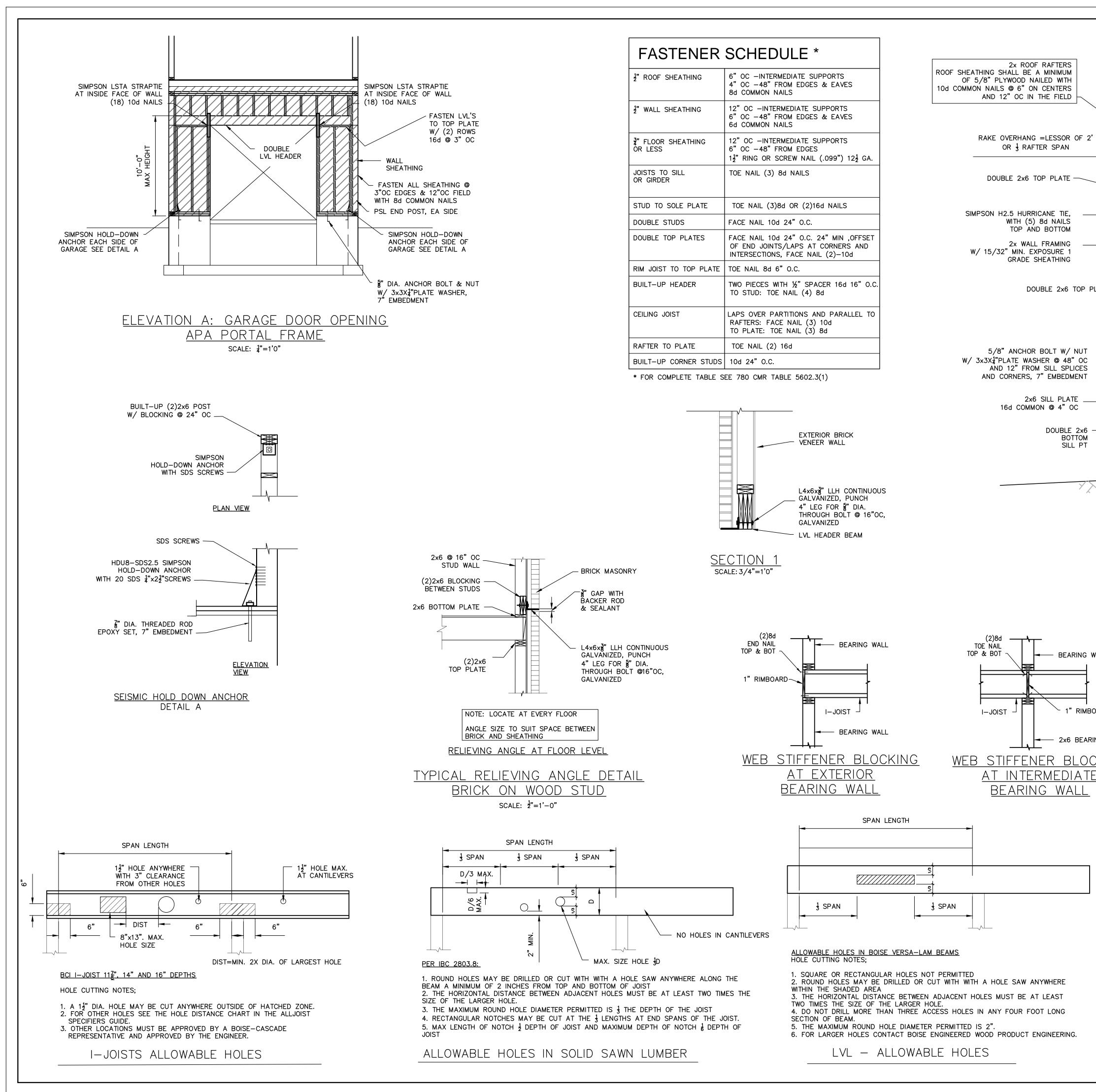


HEAD (U)	_
SUPPD	R٦
HEADER	
3-2×6	
3-2×10	
3-2×12	
3-2×12	
	(U) SUPPD HEADER 3-2×6 3-2×10 3-2×12

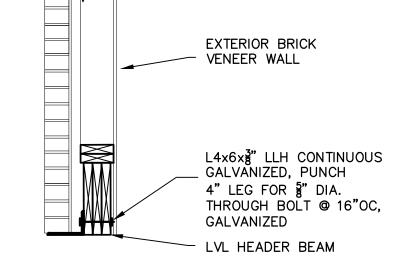
	HEADI (U)	
SPAN	SUPPD	RT
	HEADER	
0'-0" TO 3'-0"	3-2×6	i
3'-1" TO 5'-0"	3-2×10	i
5'-1" TO 8'-0"	3-2×12	i
8'-1" TD 10'-0"	3-2×12	i
LVL EQUIVALENT (3)-2×6 =(1) $1\frac{3}{4}$ *× (3)-2×10 =(1) $1\frac{3}{4}$ *× (3)-2×10 =(1) $1\frac{3}{4}$ *× (3)-2×12 =(1) $1\frac{3}{4}$ * (3)- $1\frac{3}{4}$ *× $7\frac{1}{4}$ =(2) 1 (3)- $1\frac{3}{4}$ *× $7\frac{1}{4}$ =(2) (3)- $1\frac{3}{4}$ *× $7\frac{1}{4}$ =(2)	$\overline{7}_{4}^{*}$ LVL $\overline{7}_{4}^{*}$ LVL $\overline{7}_{4}^{*}$ LVL $\overline{7}_{4}^{*}$ LVL $\overline{7}_{4}^{*}$ X9 $_{2}^{*}$ LVL $\overline{7}_{4}^{*}$ X11 $\overline{7}_{4}^{*}$ LV	/L

STEEL ANGLE LINTEL SCHEDULE									
		WALL THICKNESS							
	4" WALL	6" WALL	8" WALL	12" WALL					
3'-0"	1-L3 <sup>1</sup> 2X 3 <sup>1</sup> 2 X <sup>1</sup> 4	2-L3X2 <sup>1</sup> <sub>2</sub> X <sup>1</sup> <sub>4</sub>	2-L3 <sup>1</sup> 2X3 <sup>1</sup> 2X <sup>1</sup> 4	$3-L3^{1}2 \times 3^{1}2 \times 1_{4}$					
4'-0"	1-L4X3 <sup>1</sup> 2X <sup>1</sup> 4	2-L3X2 <sup>1</sup> <sub>2</sub> X <sup>1</sup> <sub>4</sub>	2-L4X3 <sup>1</sup> 2X <sup>1</sup> 4	3-L4X3 <sup>1</sup> 2X <sup>1</sup> 4					
5'-0"	1-L4X3 <sup>1</sup> 2X <sup>1</sup> 4	$2-L3^{1}2 \times 2^{1}2 \times 1^{4}$	2-L5X3 <sup>1</sup> 2X <sup>1</sup> 4	3-L5X3 <sup>1</sup> 2X <sup>1</sup> 4					
6'-0"	1-L5X3 <sup>1</sup> 2X <sup>1</sup> 4	$2-L3^{1}2X2^{1}2X^{1}4$	2-L5X3 <sup>1</sup> 2X <sup>1</sup> 4	3-L5X3 <sup>1</sup> 2X <sup>1</sup> 4					
8'-0"	8'-0" $2-L3^{1}{}_{2}X2^{1}{}_{2}X^{1}_{4}$ $2-L6X3^{1}{}_{2}X^{3}_{8}$ $3-L6X3^{1}{}_{2}X^{3}_{8}$								
PROVIDE AND INSTALL LINTEL ANGLES FOR MASONRY OPENINGS IN ACCORDANCE WITH THE SCHEDULE ABOVE.									

CLIENT:			7	
	111 GORDON WABAN, M			
1. EXIS FROM 1 ALL EX	g notes: Ting conditions Hose shown. Fie Isting condition:	ELD VERIFY		
ARE AF LEON A	IONS. SE PLANS AND SI RE THE PROPERTY BOMBARDIER, P T WRITTEN CONSE	Y OF PE ANY USE		
PROHIB ARCHITECT: SPALD	ITED. GEORGE TOU NG TOUGIAS		s	
OWNER:				
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FASTENER SCHEDULE *					
<sup>1</sup> / <sub>2</sub> " ROOF SHEATHING	6" OC -INTERMEDIATE SUPPORTS 4" OC -48" FROM EDGES & EAVES 8d COMMON NAILS				
<sup>1</sup> / <sub>2</sub> " WALL SHEATHING	12" OC -INTERMEDIATE SUPPORTS 6" OC -48" FROM EDGES & EAVES 6d COMMON NAILS				
₹ FLOOR SHEATHING OR LESS	12" OC -INTERMEDIATE SUPPORTS 6" OC -48" FROM EDGES $1\frac{1}{2}$ " RING OR SCREW NAIL (.099") 12 $\frac{1}{2}$ GA.				
JOISTS TO SILL OR GIRDER	TOE NAIL (3) 8d NAILS				
STUD TO SOLE PLATE	TOE NAIL (3)8d OR (2)16d NAILS				
DOUBLE STUDS	FACE NAIL 10d 24" O.C.				
DOUBLE TOP PLATES	FACE NAIL 10d 24" O.C. 24" MIN ,OFFSET OF END JOINTS/LAPS AT CORNERS AND INTERSECTIONS, FACE NAIL (2)-10d				
RIM JOIST TO TOP PLATE	TOE NAIL 8d 6" O.C.				
BUILT-UP HEADER	TWO PIECES WITH ½" SPACER 16d 16" O.C. TO STUD: TOE NAIL (4) 8d				
CEILING JOIST	LAPS OVER PARTITIONS AND PARALLEL TO RAFTERS: FACE NAIL (3) 10d TO PLATE: TOE NAIL (3) 8d				
RAFTER TO PLATE	TOE NAIL (2) 16d				
BUILT-UP CORNER STUDS	10d 24" O.C.				
* FOR COMPLETE TABLE SEE 780 CMR TABLE 5602.3(1)					



(2)8d TOE NAIL TOP & BOT ¬ - BEARING WALL 1" RIMBOARD I-JOIST 2x6 BEARING WALL WEB STIFFENER BLOCKING AT INTERMEDIATE BEARING WALL

5/8" ANCHOR BOLT W/ NU W/ 3x3X <sup>1</sup> / <sup>2</sup> "PLATE WASHER @ 48" ( AND 12" FROM SILL SPLICE AND CORNERS, 7" EMBEDMEN	DC ES
2x6 SILL PLATE 16d COMMON @ 4" OC	
DOUBLE 2 BOTTO SILL F	DM

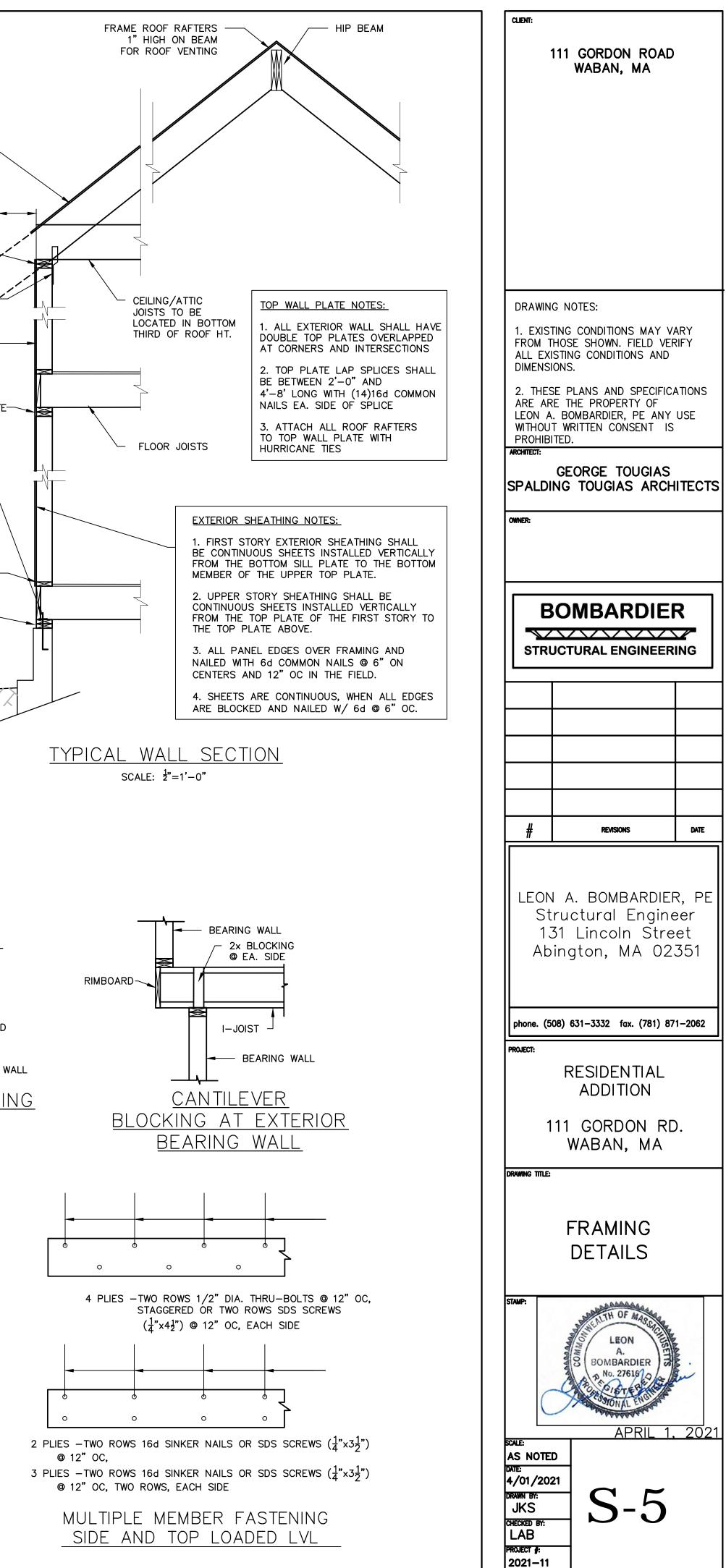
HOR BOLT W/ NUT

TOP AND BOTTOM 2x WALL FRAMING W/ 15/32" MIN. EXPOSURE 1 GRADE SHEATHING

WITH (5) 8d NAILS

2x ROOF RAFTERS

DOUBLE 2x6 TOP PLATE



1. ALL WORK SHALL CONFORM TO THE REQ NINTH EDITION.	UIREMENTS OF THE MASSACHUSETTS RESIDENTIAL BUILDING CODE (780 CMR)
2. THE CONTRACTOR SHALL BE RESPONSIBI	LE FOR ALL CONDITIONS AND DIMENSIONS AFFECTING THE WORK.
	IELY TO THE ATTENTION OF THE ENGINEER IGINEER WHEN, IN THE COURSE OF THE WORK, CONDITIONS ARE UNCOVERED IPPEAR TO PRESENT A DANGEROUS CONDITION.
CERTIFICATES AND INSTALLATION SHOP	ITS SHALL HAVE PRIOR APPROVAL OF THE ENGINEER. MATERIAL SAMPLES OR DRAWINGS SHALL BE SUBMITTED FOR ALL PARTS OF THE WORK FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
6. STRUCTURAL CONSTRUCTION SHALL BE	T BE PERFORMED WITHOUT PRIOR WRITTEN APPROVAL BY THE ENGINEER. PRECEDED BY ADEQUATE SHORING AND TEMPORARY BRACING UNTIL ALL MEMBERS
(INCLUDING OWNER FURNISHED EQUIPMENT D SLEEVES, CHASES, INSERTS, WASHES, DRIPS,	ATE VERTICAL AND LATERAL SUPPORT. ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS RAWINGS) FOR VERIFICATION, LOCATION, AND DIMENSIONS OF EMBEDDED ITEMS, REVEALS, DEPRESSIONS AND OTHER PROJECT REQUIREMENTS EFFECTING THE
STRUCTURAL WORK. 8. OPENINGS SHOWN ON DRAWINGS SHALL N APPROVAL OF THE ENGINEER	OT BE REVISED OR NEW OPENINGS ADDED TO THE WORK WITHOUT PRIOR
	RUCTURAL DRAWINGS SHALL BE APPLICABLE TO ALL PARTS OF THE
TESTING BY CERTIFIED TESTING AGENCIES	
1. COMPACTION TESTS SHALL BE CONDUC FLOOR SLABS AND SUBMITTED TO THE ENGIN	TED ON ALL FILL MATERIAL PLACED UNDER THE BUILDING FOUNDATIONS OR NEER FOR REVIEW.
2. CONCRETE CYLINDERS SHALL BE TAKEN CYLINDERS SHALL BE A MINIMUM OF THREE,	FOR EVERY DAYS POUR AND FOR EVERY 50 YARDS PLACED PER DAY. COMPRESSION TESTED AT 7 AND 28 DAYS.
3. REINFORCING STEEL, STRUCTURAL STEEL INSPECTION AGENCY ADDITIONAL TESTING WIL SHOP DRAWINGS	BOLTING, AND ALL WELDING SHALL BE VISUALLY INSPECTED. IF REQUIRED, BY THE L BE CONDUCTED.
1 SUBMIT SHOP DRAWINGS, REVIEWED ANI PROVIDED FOR CONCRETE REINFORCING STE	D APPROVED BY STAMPING BY THE GENERAL CONTRACTOR. SUBMITALS SHALL BE EL, STRUCTURAL STEEL, AND PREFABRICATED WOOD TRUSSES AND SHALL BE AND ARCHITECT FOR APPROVAL BEFORE FABRICATION, MANUFACTURE, DELIVERY
<u>STRUCTURAL DESIGN LOADS (NEWTON)</u> 1. SNOW LOADS 40 PSF GROUND SNOW	
30 PSF FLAT ROOF S 2. WIND LOADS BASIC WIND SPEED Vultim RISK CATEGORY II	
3. SEISMIC DESIGN SOIL FACTOR S1=0.068, Ss=0.208	
	MED BEARING WALL SYSTEM WITH WOOD HORIZONTAL DIAPHRAGMS AND ATION FACTOR R=6.5, DEFLECTION AMPLIFICATION FACTOR Cd=4.0
4. LIVE LOADS SLAB-ON-GRADE LIVING AREAS SLEEPING AREAS ATTIC	50 PSF 40 PSF 30 PSF
GEOTECHNICAL AND SITE ENGINEERING	
SUBSURFACE SOIL CONDITIONS ARE UNKNOW	T WAS AVAILABLE DURING THE DESIGN AND PREPARATION OF THESE DRAWINGS. N. ALLOWABLE BEARING PRESSURE IS ASSUMED TO BE 3,000 PSF AS SILT, AND MEDIUM CLAYEY SOILS. EXISTING SOILS HAVE BEEN ASSUMED TO BE COLUMN FOOTING FOUNDATIONS.
FLOOR ELEVATION AND THE SITE IS GRADED	EN ASSUMED THAT THE HIGH GROUNDWATER ELEVATION IS BELOW THE LOWEST SUCH THAT IT WILL NOT BE ADVERSELY AFFECTED BY SURFACE WATER RUNOFF. LOCATED IN A FEMA DESIGNATED FLOOD ZONE.
COMMONWEALTH OF MASSACHUSETTS TO CO ELEVATIONS.	RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER REGISTERED IN THE NFIRM FOUNDATION TYPE, SOIL BEARING PRESSURE, AND GROUNDWATER
<u>FOUNDATIONS</u> 1. EXTERIOR CONSTRUCTION SHALL BE CAR	RIED DOWN BELOW FINISHED EXTERIOR GRADE TO A MINIMUM DEPTH OF 4'-0",
UNLESS OTHERWISE NOTED.	
TO BE CONFIRMED BY THE CONTRACTOR ANI 3. SURFACE AND SUBSURFACE WATER SHA	LL BE CONTROLLED DURING CONSTRUCTION TO ENSURE THAT ALL FOUNDATION
AS REQUIRED FOR PROPER EXCAVATION AND	S. IF REQUIRED, PROVIDE SHEETING, WELL POINTS, AND/OR DE-WATERING WELLS PLACEMENT OF CONCRETE. JRBED SOIL OR COMPACTED STRUCTURAL FILL MATERIALS, APPROVED BY THE
ENGINEER.	LACED IN WATER OR ON FROZEN SUB-GRADE MATERIAL.
	ALL BE PROTECTED FROM FROST PENETRATION UNTIL THE PROJECT IS
SHALL ONLY BE PERFORMED BY THE GENER	E MATERIALS AND PLACING, COMPACTING AND TESTING OF COMPACTED FILL AL CONTRACTOR WHILE A PROFESSIONAL GEOTECHNICAL ENGINEER, REGISTERED AINED BY THE OWNER, IS OBSERVING THE WORK.
	I ON THE CONTRACT DOCUMENTS ARE MINIMUM DEPTHS AND ARE NOT TO BE AMOUNT OF EXCAVATION NECESSARY TO REACH A SUFFICIENT BEARING STRATUM.
FOUNDATIONS, AND ALL CONSTRUCTION IN T	
	ALLY DESIGNED, ERECTED, SUPPORTED, BRACED AND MAINTAINED BY THE DS BEING CARRIED BY ALL STRUCTURE MEMBERS AND THEIR FOUNDATIONS BEING Y THE WORK.
1. FOLLOWING EXCAVATION TO FOOTING BEA	ARING ELEVATION, THE EXPOSED SOIL SHALL BE SURFACE COMPACTED WITH A FORY ROLLER HAVING A DYNAMIC FORCE RATED NOT LESS THAN 10,000 POUNDS
2. BEFORE PLACEMENT OF CONCRETE FLOO	R SLAB ON GRADE, THE SOIL SHALL BE SURFACE SHALL BE PROOF ROLLED WITH ROLLER HAVING A DRUM WEIGHT OF AT LEAST 10,000 POUNDS AND A DYNAMIC
FILL" AND COMPACTED IN INDIVIDUAL LIFTS	ISUITABLE, OR DISTURBED SOIL SHOULD BE REPLACED WITH "SELECT STRUCTURAL TO 95% OF THE MAXIMUM DRY DENSITY PER ASTM D—1557. LOOSE LIFT DPERATED EQUIPMENT AND 12 INCHES FOR LARGE VIBRATORY ROLLERS.
	RAVELLY SAND OR SANDY GRAVEL, GRADED WITHIN FOLLOWING LIMITS:
<u>SIEVE SIZE IN. OR NO.</u> 1/2	PERCENT PASSING BY WEIGHT 50-85 40-75
#4 #10 #40	40-75 30-60 10-35
#100	5-20 0-8

	F ENGINEERED LUMBER SHALL HAVE A MINIMUM MODULUS OF ELASTICITY OF 2 000 000 DSLAND A DENDING STRESS OF	
COMPACTION TESTS SHALL BE PERFORMED ON ANY STRUCTURAL FILL TO BE PLACED IN THE FOUNDATION AND SLAB ON ADE AREA. A MINIMUM OF TWO TESTS PER 6" LIFT SHALL BE PERFORMED. A SUFFICIENT SAMPLE OF FILL MATERIAL SHALL SUPPLIED TO THE TESTING AGENCY.	F. ENGINEERED LUMBER SHALL HAVE A MINIMUM MODULUS OF ELASTICITY OF 2,000,000 PSI AND A BENDING STRESS OF 3,100 PSI FOR BEAMS AND A MINIMUM MODULUS OF ELASTICITY OF 1,700,000 PSI AND A BENDING STRESS OF 2,650 PSI FOR COLUMNS. LVL BEAMS AND PSL COLUMNS SHALL BE BOISE CASCADE VERSALAM OR EQUAL.	CLIENT: 111 GORDON ROAD
LD WEATHER EARTHWORK PROTECTION ALL FOUNDATIONS EXPOSED TO FREEZING TEMPERATURES WILL BE INSTALLED 4 FEET BELOW FINAL GRADE FOR FROST OTECTION.	2. UNLESS OTHERWISE NOTED, ALL NAILING AND FASTENING SHALL BE IN ACCORDANCE WITH TABLE 2305.2, FASTENING SCHEDULE, MASSACHUSETTS STATE BUILDING CODE. SHEAR WALL FASTENING SHALL BE IN ACCORDANCE WITH THE FASTENING SCHEDULE ON THE DRAWINGS.	WABAN, MA
DURING CONSTRUCTION EARTHWORK THE CONTRACTOR MUST BE PREPARED TO PROVIDE PROTECTION AND/OR THAWING OF FOUNDATION BEARING SOILS AGAINST FREEZING BEFORE ANY FILL AND/OR PLACEMENT OF THE SLAB BASE IS COMPLETED	3. WOOD SILLS BENEATH ALL INTERIOR AND EXTERIOR BEARING WALLS AND ALL MEMBERS EXPOSED TO WEATHER OR MOISTURE SHALL BE PRESERVATIVE TREATED IN ACCORDANCE WITH THE "AMERICAN WOOD PRESERVERS ASSOCIATION, STANDARD C1".	
FOOTINGS: INSULATION BLANKETS AND/OR GROUND HEATING HOSES SHOULD BE UTILIZED IF FOOTING SUBGRADE IS EXPOSED TO FREEZING DURING COLD WEATHER PERIODS. LOWEST LEVEL SLABS: SLAB SUBGRADE AREAS SHALL BE THAWED ONCE BASIC FRAMING IS UP BY PROVIDING	4. ALL STUD WALLS, BEARING AND NON-BEARING, SHALL HAVE ONE ROW OF CONTINUOUS 2X SOLID BLOCKING BETWEEN STUDS AT MID-HEIGHT. BLOCKING SIZE TO MATCH STUD SIZE. FRAMING MEMBERS SHALL NOT BE NOTCHED, CUT OR ALTERED IN THE FIELD WITHOUT THE SPECIFIC APPROVAL OF THE ENGINEER.	
HEATERS AFTER ENCLOSING THE LOWEST LEVEL IN PLASTIC SHEETING. N <u>CRETE</u> CONCRETE WORK SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE (ACI) – "BUILDING CODE REQUIREMENTS FOR	5. ALL METAL CONNECTORS FOR WOOD CONSTRUCTION SHALL BE HOT- DIPPED GALVANIZED METAL SHAPES AS MANUFACTURED BY "SIMPSON STRONG-TIE COMPANY, INC." AND BE ATTACHED BY THE GENERAL CONTRACTOR AS PER THE "SIMPSON STRONG-TIE" SPECIFICATIONS.	
NFORCED CONCRETE" (ACI-318) AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI-301). ALL STRUCTURAL CONCRETE, UNLESS OTHERWISE NOTED, SHALL BE NORMAL WEIGHT (145 PCF) AND HAVE A MINIMUM DAY COMPRESSIVE STRENGTH OF:	6. LEAD HOLES FOR WOOD SCREWS AND LAG BOLTS SHALL BE DRILLED 7/8 OF THE SHANK DIAMETER FOR THE DEPTH OF SHANK EMBEDMENT AND 7/8 OF THE THREADED PORTION DIAMETER FOR THE DEPTH OF THE THREAD EMBEDMENT.	
A) SLAB ON GRADE, SPREAD FOOTINGS, AND FOUNDATION WALLS = 3,500 PSI	7. DOUBLE TOP PLATES ON ALL EXTERIOR AND BEARING PARTITIONS (NOT OTHERWISE DETAILED). PLATES SHALL LAP 4'-0"	DRAWING NOTES:
CONCRETE SHALL BE CONTROLLED CONCRETE, PROPORTIONED, MIXED AND PLACED IN THE PRESENCE OF A PRESENTATIVE OF AN APPROVED TESTING AGENCY, AS REQUIRED BY STATE CODE. TEST CYLINDERS SHALL BE TAKEN AT A IIMUM OF 4 FOR EVERY DAYS CONCRETE PLACEMENT AND FOR EVERY 50 YARDS PLACED THAT DAY. ALL CONCRETE EXPOSED TO WEATHER, INCLUDING FOUNDATION WALLS, SHALL BE AIR ENTRAINED.	FLOOR AND WALL SHEATHING 1. EXTERIOR WALL AND SHEAR WALL SHEATHING SHALL BE A MINIMUM OF 15/32 INCH EXPOSURE 1, EXTERIOR SHEATHING, APA RATED SHEATHING 32/16. NAIL 6 INCHES ON CENTER AT PANEL EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS SHEATHING MAY BE PLYWOOD, OSB, OR COMPOSITE MATERIAL. PLYWOOD SHEATHING SHALL BE DFPA GRADE	1. EXISTING CONDITIONS MAY VARY FROM THOSE SHOWN. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON DRAWINGS. REQUEST FOR ANY CHANGE SHALL BE IN WRITING GETHER WITH DRAWING INDICATING LOCATIONS FOR ENGINEER'S APPROVAL. CONCRETE PLACEMENTS SHALL BE LIMITED TO THE FOLLOWING:	STAMPED, TYPE CDS 5 PLY WITH EXTERIOR GLUE UNLESS OTHERWISE NOTED ON PLANS. 2. SHEAR WALL SHEATHING SHALL BE A MINIMUM OF 15/32 INCH EXPOSURE 1, EXTERIOR APA RATED SHEATHING 32/16. FASTENING SHALL BE PER THE SHEAR WALL FASTENING SCHEDULE ON THE DRAWINGS. SHEATHING MAY BE PLYWOOD, OSB,	2. THESE PLANS AND SPECIFICATIONS ARE ARE THE PROPERTY OF LEON A. BOMBARDIER, PE ANY USE WITHOUT WRITTEN CONSENT IS
A) FOOTINGS AND WALLS 30 FOOT LENGTH MAXIMUM TO CONSTRUCTION JOINT B) SLABS ON GRADE 30 FOOT MAXIMUM PANEL DIMENSION	OR COMPOSITE MATERIAL. ALL SHEAR WALL SHEATHING EDGES SHALL BE BLOCKED AND NAILED PER THE SHEAR WALL SCHEDULE. 3. ALL ROOF SHEATHING SHALL BE 5/8 INCH APA RATED PLYWOOD SHEATHING 32/16. USE EXPOSURE 1 PANELS, EXCEPT	PROHIBITED. ARCHITECT: GEORGE TOUGIAS SPALDING TOUGIAS ARCHITECT
ADJACENT CONCRETE PLACEMENTS SHALL BE AFTER 72 HOURS OF CURING TIME. HORIZONTAL CONSTRUCTION JOINTS SHALL BE LOCATED ONLY WHERE SHOWN ON DRAWINGS OR AS APPROVED BY THE GINEER.	USE EXTERIOR PANELS FOR STARTER STRIPS ALONG EAVES AND WHEN LONG CONSTRUCTION DELAYS ARE ANTICIPATED. APPLY PANELS WITH THE FACE GRAIN PERPENDICULAR TO THE RAFTERS OR TRUSSES AND CONTINUOUS OVER TWO OR MORE SPANS. ATTACH PANELS WITH GLUE AND 6d RING OR SCREW SHANK NAILS AT 6 INCHES ON CENTER AT PANEL EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS. AS AN OPTION, $\frac{1}{2}$ " SHEATHING MAY BE USED WITH PANEL CLIPS ALONG	OWNER:
CONCRETE SLABS SHALL BE PLACED WITH A UNIFORM SLAB THICKNESS AS SHOWN ON THE DRAWINGS. MINIMUM PROTECTIVE COVER FOR CONCRETE REINFORCING STEEL SHALL BE AS FOLLOWS:	4. ALL FLOOR SHEATHING SHALL BE 3/4 INCH TONGUE AND GROOVE, APA RATED "STURD-I-FLOOR", 48/24 SPAN RATING, EXPOSURE 1 PANELS. APPLY PANELS WITH THE FACE GRAIN PERPENDICULAR TO THE JOISTS OR TRUSSES AND	
<ul> <li>A) UNFORMED SURFACES CAST AGAINST EARTH - 3 INCHES</li> <li>B) FORMED SURFACES NOT IN CONTACT TO EARTH - 3/4 INCHES</li> <li>OR EXPOSED TO WEATHER, WALLS AND SLABS, #11 BARS OR SMALLER</li> </ul>	APPET PANELS. APPET PANELS WITH THE FACE GRAIN PERFENDICULAR TO THE JUISTS OR TROSSES AND CONTINUOUS OVER TWO OR MORE SPANS AND ATTACH PANELS BY GLUE—NAILING AS FOLLOWS: A. SPREAD GLUE IN ACCORDANCE WITH RECOMMENDATIONS OF GLUE MANUFACTURER AND INDUSTRY PRACTICE. B. STAGGER END JOINTS IN EACH SUCCEEDING ROW, LEAVING 1/8 INCH SPACE BETWEEN ALL END AND	BOMBARDIER
C) FORMED SURFACES IN CONTACT TO EARTH OR EXPOSED TO WEATHER, WALLS AND SLABS, #6 TO #18 BARS – 2 INCHES #5 AND SMALLER – 1 1/2 INCHES	EDGE JOINTS, INCLUDING TONGUE AND GROOVE EDGES. C. COMPLETE ALL NAILING OF EACH PANEL BEFORE GLUE SETS WITH 6d RING OR SCREW—SHANK NAILS AT 12 INCHES ON CENTER AT PANEL EDGES AND INTERMEDIATE SUPPORTS.	STRUCTURAL ENGINEERING
<u>D WEATHER CONCRETE WORK</u> COLD WEATHER CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI)	CONCRETE RETAINING WALL WORK INCLUDES ALL EXCAVATION, LEVELING PAD, RETAINING WALL BACKFILL, THE FABRIC ABOVE THE CRUSHED AGGREGATE	
COLD WEATHER CONCRETE PROCEDURES SHALL BE EMPLOYED WHEN THERE IS A CHANCE OF FREEZING TEMPERATURES HIN 24 HOURS OF PLACEMENT AND/OR MEAN DAILY TEMPERATURE LESS THAN 40 DEGREES FAHRENHEIT, AND DURING HODS OUTLINED IN ACI 306, SECTIONS 1.3 AND 1.4.	BACKFILL, WEEP PIPES AND ALL OTHER MATERIALS, LABOR, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK. 1. CONCRETE WORK SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE (ACI) – "BUILDING CODE REQUIREMENTS	
DETAILS OF HANDLING AND PROTECTING CONCRETE DURING COLD WEATHER SHALL BE SUBJECT TO ENGINEERS' ROVAL AND DIRECTION.	FOR REINFORCED CONCRETE" (ACI-318) AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI-301).	
CONCRETE SHALL NOT BE PLACED ON ICE, SNOW, OR FROZEN GROUND. FROZEN MATERIAL AND MATERIAL CONTAINING	DAY COMPRESSIVE STRENGTH OF 3,500 PSI.	
SHALL NOT BE EMPLOYED IN CONCRETE. CONCRETE AFTER PLACING SHALL BE PROTECTED BY COVERING, HEATING, OR BOTH. CONCRETE SHALL BE MAINTAINED TEMPERATURE EQUAL TO 50 TO 70 DEGREES FAHRENHEIT (10 TO 21 DEGREES CENTIGRADE) FOR REQUIRED CURING	<ol> <li>ALL CONCRETE EXPOSED TO WEATHER SHALL BE AIR ENTRAINED.</li> <li>CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON DRAWINGS. REQUEST FOR ANY CHANGE SHALL BE IN WRITING TOGETHER WITH DRAWING INDICATING LOCATIONS FOR ENGINEER'S APPROVAL.</li> </ol>	# REVISIONS DATI
IOD AND AS INDICATED IN ACI 306, TABLE 1.4.1. ARRANGEMENTS FOR HEATING, COVERING, INSULATING, HOUSING, AND CURING SHALL BE MADE IN ADVANCE OF	5. CONCRETE PLACEMENTS SHALL BE LIMITED TO A 30 FOOT LENGTH MAXIMUM TO CONSTRUCTION JOINT.	LEON A. BOMBARDIER, P
ICRETE PLACEMENT. COMBUSTION HEATERS SHALL BE VENTED TO PREVENT EXPOSURE OF CONCRETE TO EXHAUST GASES CONTAINING BON DIOXIDE.	<ol> <li>ADJACENT CONCRETE PLACEMENTS SHALL BE AFTER 72 HOURS OF CURING TIME.</li> <li>HORIZONTAL CONSTRUCTION JOINTS SHALL BE LOCATED ONLY WHERE SHOWN ON DRAWINGS OR AS APPROVED BY THE ENGINEER.</li> </ol>	Structural Engineer 131 Lincoln Street
TEMPERATURE RECORDS SHALL BE MAINTAINED THROUGHOUT CONCRETE PLACEMENT PERIOD DURING COLD WEATHER, TING AIR TEMPERATURE INSIDE AND OUTSIDE ENCLOSURE, GENERAL WEATHER CONDITIONS (CALM, WINDY, CLEAR, CLOUDY, E.), AND RELATIVE HUMIDITY.	<ul> <li>8. MINIMUM PROTECTIVE COVER FOR CONCRETE REINFORCING STEEL SHALL BE AS FOLLOWS:</li> <li>A) UNFORMED SURFACES CAST AGAINST EARTH - 3 INCHES</li> <li>B) FORMED SURFACES NOT IN CONTACT TO EARTH - 3/4 INCHES</li> </ul>	Abington, MA 02351
<u>B ON GRADE SAW CUT JOINTS</u> SLABS SHALL BE SAW CUT WITH 24 HOURS OF PLACEMENT OF CONCRETE.	OR EXPOSED TO WEATHER, WALLS AND SLABS, #11 BARS OR SMALLER C) FORMED SURFACES IN CONTACT TO EARTH	phone. (508) 631-3332 fax. (781) 871-2062
JOINTS SHALL BE CLEANED AND FILLED WITH BASF SONOLASTIC SL1, A ONE-COMPONENT SELF-LEVELING NON-PRIMING YURETHANE SEALANT DESIGNED FOR JOINTS IN CONCRETE FLOORS TO PROVIDE FLEXIBILITY AS WELL AS ABRASION AND ICTURE RESISTANCE.	OR EXPOSED TO WEATHER, WALLS AND SLABS, #6 TO #18 BARS - 2 INCHES #5 AND SMALLER - 1 1/2 INCHES	PROJECT: RESIDENTIAL
<u>ICRETE SLAB SEALER</u> CONCRETE SLABS ON GRADE SHALL RECEIVE A SLAB SEALER AND CURING COMPOUND.	<ul><li>10. GEOSYNTHETIC GRID POLYMER REINFORCEMENT SHALL BE MARAFI 8XT OR EQUAL.</li><li>A. GRID SHOULD NOT BE TORN, OR CUT DURING INSTALLATION.</li></ul>	ADDITION
NCRETE SEALER SHALL BE WATERBASED HARDENER, SEALER KURSEAL 309 FORMULA BY A. H. HARRIS AND SONS, YNHAM, MA POR BARRIER, FOUNDATION & UNDER-SLAB INSULATION	<ul> <li>B. GRID SHALL BE, PLACED PERPENDICULAR TO THE WALL FACE.</li> <li>C. ALL SLACK IN THE REINFORCEMENT SHOULD BE REMOVED PRIOR TO PLACING THE BACKFILL OVER IT, AND POLYMER REINFORCEMENT SHOULD HAVE SOME TENSION PLACED IN THE REINFORCEMENT.</li> <li>D. THE REINFORCEMENT SHALL BE CONNECTED TO THE WALL IN ACCORDANCE WITH THE GRID MANUFACTURERS</li> </ul>	111 GORDON RD. WABAN, MA
INSULATION SHALL BE A MINIMUM OF 4 INCH THICK EXTRUDED POLYSTYRENE WITH A MINIMUM R VALUE OF 5.0 PER I AND A COMPRESSIVE STRENGTH OF 20 PSI OWENS CORNING "CELLFORT 200" OR APPROVED EQUAL.	INSTRUCTIONS. DETAIL OF CONNECTION SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. E. GRID SHALL BE PLACED CONTINUOUS ALONG THE LENGTH OF THE WALL. 11. FILTER FABRIC SHALL BE PLACED AS SHOWN ON THE DRAWINGS. INDIVIDUAL SHEETS OF FABRIC SHALL OVERLAP A MINIMUM OF 18 INCHES FABRIC SHALL MEET THE MINIMUM REQUIREMENTS FOR FULTRATION DEP AASHTO M 288	DRAWING TITLE: STRUCTURAL
VAPOR BARRIER SHALL BE GRIFFOLYN F—65 BY REEF INDUSTRIES, INC. OR EQUAL. THE MATERIAL SHALL HAVE A PLY, HIGH DENSITY POLYETHYLENE AND NYLON YARN LAMINATE, WITH SIDE AND END JOINTS SHALL BE LAPPED AT LEAST LAPS SHALL BE SEALED USING FAB TAPE. ANY PUNCTURES OR TEARS ARE TO BE REPAIRED USING GRIFFOLYN'S GRIFF 'E, FAB TAPE OR EQUAL.	OF 18 INCHES. FABRIC SHALL MEET THE MINIMUM REQUIREMENTS FOR FILTRATION PER AASHTO M-288. 12. FILTER MATERIAL FILL FOR THE CONCRETE BLOCK UNIT AND BEHIND THE WALL SHALL BE WASHED, CRUSHED STONE BACKFILL MATERIAL CONFORMING TO THE FOLLOWING:	GENERAL
TER STOP FOR CONCRETE FOUNDATION WALLS WATERSTOP SHALL BE VOLCLAY RX, FORMULATED MIXTURE OF NATURAL SODIUM BENTONITE AND BUTYL RUBBER. IT ALL CONSIST OF NATURAL SODIUM BENTONITE, A NON-TOXIC, CHEMICALLY INERT SWELLING CLAY OF VOLCANIC ORIGIN, H THE CHARACTERISTICS OF SWELLING MANY TIMES ITS DRY VOLUME WHEN IN CONTACT WITH WATER, TO FORM AN ENETRABLE GEL.	U.S. <u>SIEVE NO.</u> <u>PERCENT PASSING</u> 25MM 100-75 19MM 50-75 NO. 4 0-60 NO. 40 0-50	
ALTERNATE PVC OR RUBBER WATERSTOPS ARE ACCEPTABLE. WATERSTOP SHALL BE SECURED VERTICALLY OR STEEL NFORCED TO PREVENT HORIZONTAL BENDING DURING CONCRETE PLACEMENT.	NO. 200 0-5 13. STRUCTURAL FILL SHALL BE SELECT GRANULAR MATERIAL CONFORMING TO THE FOLLOWING	LEON A.
<u>CRETE AND MASONRY REINFORCING</u> ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 GRADE 60.	U.S. <u>SIEVE NO.</u> <u>PERCENT PASSING</u> 102MM 100 NO. 40 0-60	BOMBARDIER 2015 . No. 276161 0 BOMBARDIER 2015 . SOLOTER 20
ALL WELDED WIRE MESH (WWF) SHALL BE SMOOTH BARS CONFORMING TO ASTM A185. OVER TWO OR MORE SPANS. 'S OF INDIVIDUAL SHEET SHALL BE 8" MINIMUM.	NO. 200 0–15 14. BACKFILL BEHIND THE WALL SHALL BE PLACED IN LAYERS NOT TO EXCEED 9 INCHES AND COMPACTED TO 95% OPTIMUM DENSITY AND MOISTURE CONTENT. COMPACTION EQUIPMENT USED WITHIN 3 FEET OF THE WALL SHOULD BE A VIBRATORY ROLLER	APRIL 1, 202
DD FRAMING ALL SAWN LUMBER FRAMING MEMBERS SHALL BE SPRUCE-PINE-FIR WITH THE FOLLOWING MINIMUM GRADES: JOISTS, RAFTERS, SOLID AND BUILT-UP BEAMS, WALL STUDS AND LINTELS; NO. 1& NO.2 GRADE. SILLS AND PLATES; STUD GRADE. SOLID WOOD POSTS; NO. 1 GRADE.	OR PLATE WEIGHING LESS THAN 1,000 POUNDS. FROM BEYOND 3 FEET OF THE WALL FACING PANELS, A ROLLER UP TO 8 TONS MAY BE USED. SHEEP'S FOOT OR GRID ROLLERS, ARE NOT ACCEPTABLE. 15. DRAINAGE PIPING SHALL BE A MINIMUM OF 4" HIGH DENSITY PVC PIPE, SEE DRAWINGS. 16. LEVELING BASE FOUNDATION FOR THE STRUCTURE SHALL BE PROOF ROLLED AND GRADED LEVEL. SOFT OR LOOSE MATERIAL THAT IS ENCOUNTERED SHOULD BE COMPACTED OR REMOVED AND REPLACED WITH STRUCTURAL FILL	AS NOTED DATE: 4/01/2021 DRAWN BY: JKS CHECKED BY:
BRIDGING, BLOCKING AND NAILERS; STUD GRADE. NON-BEARING STUD WALLS SHALL BE STUD GRADE.		LAB PROJECT #: 2021-11