

Detached Garage

The Block Residence

189 N Merkle Rd

Columbus, Ohio 43209

GENERAL NOTES FOR CONSTRUCTION

- ALL DIMENSIONS SHALL BE VERIFIED AT THE JOB BY THE GENERAL CONTRACTOR AND EACH SUB-CONTRACTOR AND THE ENGINEER MUST BE NOTIFIED OF ANY DISCREPANCIES WITH DIMENSIONS OR ANY OTHER FIELD CONDITION WHICH IS NOT ACCORDING TO THE DRAWINGS. PRIOR TO PROCEEDING WITH THE WORK, THE ENGINEER MUST BE NOTIFIED OF ANY FIELD CHANGES WHICH AFFECT MEANS OF EGRESS OR ANY OTHER LIFE SAFETY ITEMS WHICH ARE GOVERNED BY IBC AFTER THE BUILDING PERMIT HAS BEEN ISSUED BY THE GOVERNING PLAN EXAMINING AGENCY. ALL WORK SHALL CONFORM TO ALL APPLICABLE ELECTRICAL AND MECHANICAL BUILDING CODES. FINAL APPROVAL AT THE SITE WITH THE GOVERNING AGENCY'S INSPECTOR IS MANDATORY.
- THE CONTRACTOR SHALL COORDINATE AND BE RESPONSIBLE FOR SEQUENCING OF THE CONSTRUCTION. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING GUYS OR TIE-DOWNS WHICH MIGHT BE NECESSARY.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY & BUILDING CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
- THESE CONTRACT DOCUMENTS ARE DESIGNED TO MEET THE REQUIREMENTS FOR THE 2019 Residential Code of Ohio (RCO).
- ANY CONTRACTOR PROPOSED CHANGES OR DEVIATIONS TO THE DESIGN AS SHOWN SHALL BE SUBMITTED THE OWNER.

ROOFING INFORMATION

PER IBC, ROOF ASSEMBLIES, ROOF DECKS SHALL BE COVERED WITH APPROVED ROOF COVERINGS SECURED TO THE BUILDING OR STRUCTURE IN ACCORDANCE WITH THE PROVISIONS OF THIS CHAPTER. ROOF COVERINGS SHALL BE DESIGNED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THIS CODE AND THE APPROVED MANUFACTURER'S INSTALLATION INSTRUCTIONS SUCH THAT THE ROOF COVERING SHALL SERVE TO PROTECT THE BUILDING OR STRUCTURE.

ROOF TRUSSES:
DESIGN OF MEMBERS AND CONNECTIONS IS TO BE BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF OHIO, EXPERIENCED IN SIMILAR DESIGN, RETAINED BY THE MANUFACTURER.

SHOP DRAWINGS SHALL EXHIBIT THE SEAL OF THE ENGINEER RESPONSIBLE FOR THE DESIGN OF THE TRUSS.

LOADING:

TOP CHORD LIVE LOAD: 25PSF
 TOP CHORD DEAD LOAD: 10PSF
 BOTTOM CHORD LIVE LOAD: 20PSF
 BOTTOM CHORD DEAD LOAD: 5PSF
 TOTAL LOAD: 45PSF
 NET WIND UPLIFT: 8PSF
 MAXIMUM LIVE LOAD DEFLECTION IS TO BE L/360
 MAXIMUM TOTAL LOAD DEFLECTION IS TO BE L/240.

HEADER SCHEDULE

OPENING	MEMBERS	BEARING
0'-3"	2-2x6 with 1/2" plywood	4" E.S.
3'-5"	2-2x8 with 1/2" plywood	4" F.S.
5'-6"	2-2x10 with 1/2" plywood	4" E.S.
	2-2x12 with 1/2" plywood	4" E.S.

STRUCTURAL & GENERAL NOTES

A STRUCTURAL DESIGN LOADS:

- FLOOR LIVE LOAD:
FIRST FLOOR: 50 PSF
SECOND FLOOR: 40 PSF
- WIND LOAD:
CORRESPONDING TO 90mph WIND SPEED. 3 SEC GUST: 100 mph
IMPORTANCE FACTOR WIND (I): 1.0
- SOIL LOAD BEARING:
ASSUMED 1500psf
- GROUND SNOW LOAD: 20PSF
- ROOF W/CEILING LOADS: 30PSF
- ROOF WITHOUT/CEILING LOADS: 20PSF
- DECKS: 50 PSF (ADD 50 PSF IN AREA WITH HOT TUB)
- SEISMIC DESIGN CATEGORY: A
- ICE SHIELD REQUIRED
- WINTER DESIGN TEMP: 5 DEGREES F.
FROST DEPTH: 36 INCHES
WEATHERING: SEVERE
AIR FREEZING INDEX: 1500
MEAN ACTUAL TEMP: 50.1 DEGREES F.
- SUBJECT TO DAMAGE FROM: TREMITE & DECAY
- FLOOD HAZARDS:
A. 7/16/79
B. 4/22/97

B CONCRETE STRENGTH:

- FOOTINGS AND FOUNDATION WALLS:
SHALL BE Fc = 2500psi
- CONFORMANCE WITH THE STRENGTH TEST REQUIREMENTS OF SECTION 1905.6.

C WOOD MEMBER SPECIFICATIONS:

- ALL DIMENSIONAL LUMBER USED FOR FRAMING SHALL BE SPRUCE PINE FIR #2 OR BETTER AND HAVE A MAXIMUM MOISTURE CONTENT OF 19%

WALL STUDS TO BE 2X4 16" CENTER TO CENTER ONE PIECE FULL HEIGHT. ALL WOOD MEMBERS, INCLUDING BUT NOT LIMITED TO BEAMS, TRUSSES, RAFTERS, ETC. SHALL HAVE A MINIMUM BEARING OF 1 1/2".

D EGRESS & EGRESS

LANDINGS AT DOORS, THERE SHALL BE A FLOOR OR LANDING ON EACH SIDE OF EACH EXTERIOR DOOR. THE WIDTH OF EACH LANDING SHALL NOT BE LESS THAN THE DOOR BEING SERVED. EACH LANDING SHALL HAVE A MINIMUM DIMENSION OF 36 INCHES MEASURED IN THE DIRECTION OF TRAVEL.

E FIRE STOPPING:

FIRE STOPPING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (VERT & HORZ) AND TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES AND BETWEEN STORIES AND ROOF.

F ROOF SHEATHING:

ROOF SHEATHING SHALL BE SUPPORTED WITH BLOCKING OR EDGE CLIPS WHEN RAFTERS OR TRUSSES ARE 24" O.C. OR GREATER.

GENERAL NOTES

- This project is the construction of a new 22'x34' detached garage.

APPLICABLE CODES:

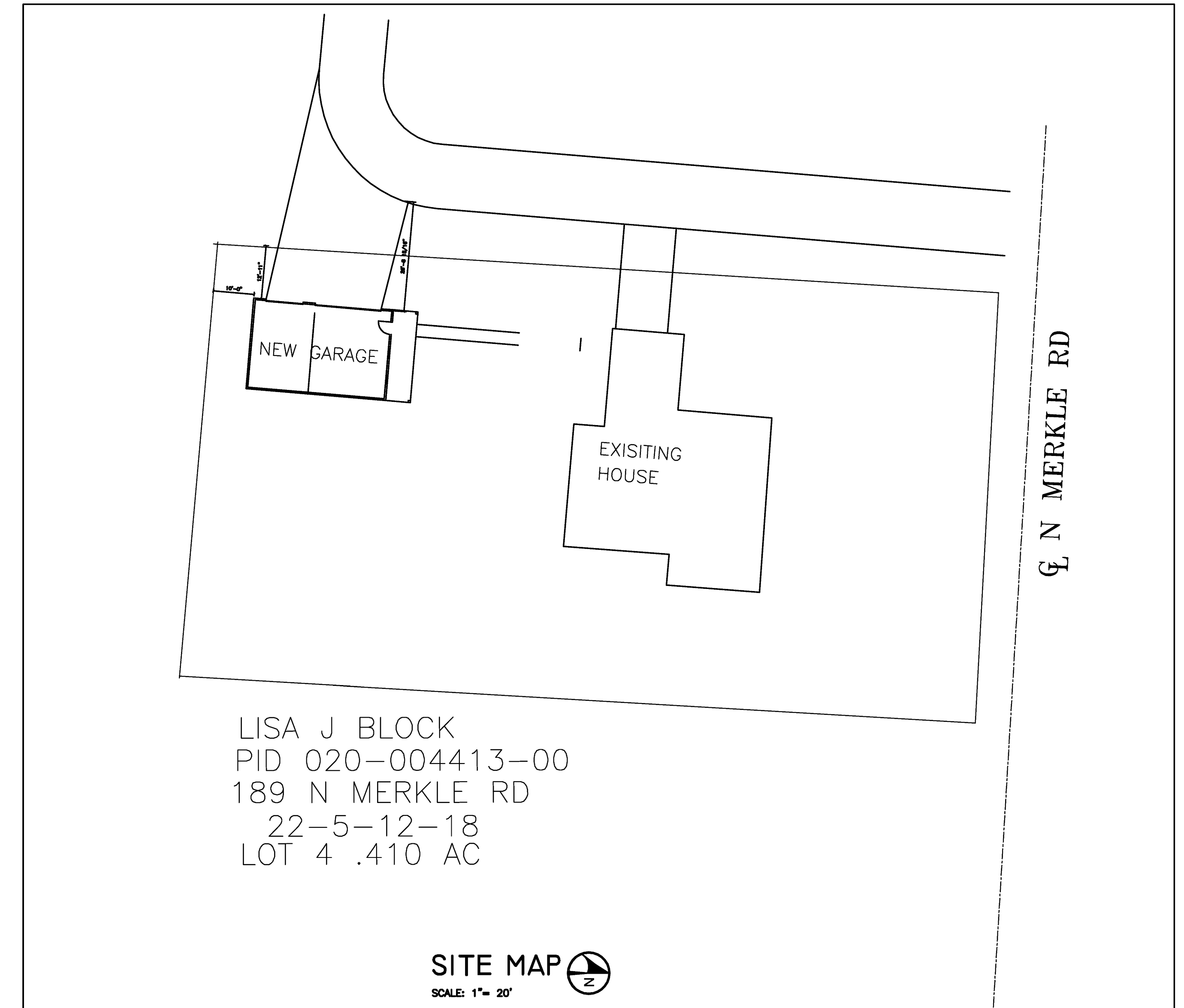
- 2019 RCO WITH LOCAL AMENDMENTS.

INDEX OF SHEETS

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A.1	FOUNDATION, FLOOR, ROOF PLANS
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STRUCTURAL NOTES

2019 RCO TABLE 301.2 (1)					
ROOF SNOW LOAD (LB. PER SQ. FT.)	WIND DESIGN	SEISMIC DESIGN CATEGORY	ICE SHIELD REQUIRED	FLOOD HAZARDS	WINTER DESIGN TEMP.
20	90 MPH	B	YES	A. 7/16/70 B. 4/22/97	5 DEG. F.
SUBJECT TO DAMAGE FROM					
WEATHERING	FROST DEPTH	TERMITE	DECAY	AIR FREEZING INDEX	MEAN ACTUAL TEMP.
SEVERE	36"	YES	YES	1500	50.1 F.
2019 RCO TABLE 301.5					
SOIL BEARING	1500 PSF				
FIRST FLOOR	50 PSF				
SECOND FLOOR	40 PSF				
ROOF W/ CLG. LOADS	30 PSF				
ROOF W/O CLG. LOADS	20 PSF				
DECKS	50 PSF (ADD 50 PSF IN AREA WITH HOT TUB)				
*ALL LOADS ARE LIVE AND DEAD LOADS COMBINED					

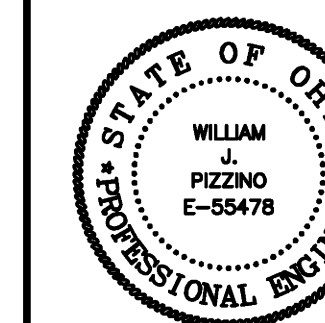


William Pizzino

10-1-2019

NOTE:

SEISMIC DESIGN PROVISIONS PER SECTION 1910, THE DESIGN AND CONSTRUCTION OF CONCRETE COMPONENTS THAT RESIST SEISMIC FORCES SHALL CONFORM TO REQUIREMENTS OF THIS SECTION AND TO ACI 318 EXCEPT AS MODIFIED BY SECTION 1908.



OWNER: The Block Residence
 189 N Merkle Rd
 Columbus, Ohio 43209

DESIGNED BY: WILLIAM J. PIZZINO, P.E.
 9495 SR 161
 PLAIN CITY, OHIO 43064
 (614) 325-2462

New Detached Garage

SCALE: AS NOTED THIS SHEET: COVER SHEET

DATE: 10-1-2019 DRAWN BY: WJP

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