

NOTICE OF MEETING
VILLAGE OF FOX POINT
BUILDING BOARD

Schwemer Hall
7200 North Santa Monica Blvd.
Fox Point, WI 53217

Wednesday
May 15, 2024
5:00 P.M.

Join Zoom Meeting

<https://us02web.zoom.us/j/84576346885>

Meeting ID: 845 7634 6885

Dial by your location: 312.626.6799

AGENDA

1. Roll call of board members and quorum confirmation.
2. Discussion, corrections, and approval of the minutes of the April 10, 2024 Building Board meeting.
3. Ryan Derus, 312 E Acacia Rd, proposed window and infill.
4. Terrance O'Neill, 302 E Willow Rd, proposed front stoop, add portico.
5. Elizabeth Elser, 6516 N Lake Dr, proposed replace windows.
6. Elliot Berman, 6801 N Raynard Rd, proposed deck.
7. Alex Speaker, 7938 N Regent Rd, proposed garage addition.
8. Adjourn.

PLEASE NOTE: Upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through sign language interpreters or other auxiliary aids. For additional information or to request these services, contact the Village Clerk at 414-351-8900. It is possible that members of, and possibly a quorum of members of, other governmental bodies of the municipality may be in attendance at the above stated meeting to gather information; no action will be taken by any governmental body at the above stated meeting other than the governmental body specifically referred to above in this notice.

**VILLAGE OF FOX POINT
BUILDING BOARD MINUTES**

A meeting of the Building Board was held via Zoom, on Wednesday, April 10, 2024, at 5:00 pm. Those present included:

Justin Racinowski
William Feldman
Sharon Celek
Lucille Sells-Absent
Brian Tobiczky
Michael Rakow

Notice of the meeting was provided to the North Shore Now and to all others as required by State open meeting laws and posted on the official bulletin boards.

MINUTES

Motion was made by William Feldman to approve the minutes of March 20, 2024. Motion was seconded by Brian Tobiczky. Motion Caried.

AGENDA

1. **Randy Jones, 917 E Spooner Rd, proposed roof mounted solar.** It was the consensus of the Building Board to approve as submitted.
2. **Matt Hutchens, 1204 E Dean Rd, proposed addition.** It was the consensus of the Building Board to approve as submitted.
3. **Mackenzie Button, 7123 N Barnett Ln, proposed dormer.** It was the consensus of the Building Board to approve as submitted.
4. **Christine Symchych, 7240 N Barnett Ln, proposed windows.** It was the consensus of the Building Board to approve as submitted.
5. **Glen Saltzberg, 7242 N Beach Dr, proposed addition.** It was the consensus of the Building Board to approve as submitted.
6. **Anita Lloyd, 7233 N Santa Monica Blvd, proposed porch.** It was the consensus of the Building Board to approve as submitted.
7. **Peter Wiegers, 7481 N Seneca Rd, proposed windows.** It was the consensus of the Building Board to approve as submitted.

ADJOURN

Motion to adjourn Building Board was made by Sharon Celek. Motion seconded by William Feldman. Motion Caried. Building Board adjourned at 5:58 pm.

Respectfully Submitted,



Michael Rakow
Building Inspector
Village of Fox Point

**VILLAGE OF FOX POINT**

7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

Permit Number:**B-****OFFICE USE ONLY**

Issued Date

Zoning

BUILDING PERMIT

Job Address	Building Type: Residential - Commercial
Description of Work	
Estimated Cost of Project \$	

Owner/Occupant	
Business Name	Contact Name
Address	City/State/Zip
Phone	Email

****Cautionary Statement required when homeowner is applying for permit****

Contractor	
Company Name	Contact Name
Address	City/State/Zip
Phone	Email
Dwelling Contractor #	Dwelling Contractor Qualifier #

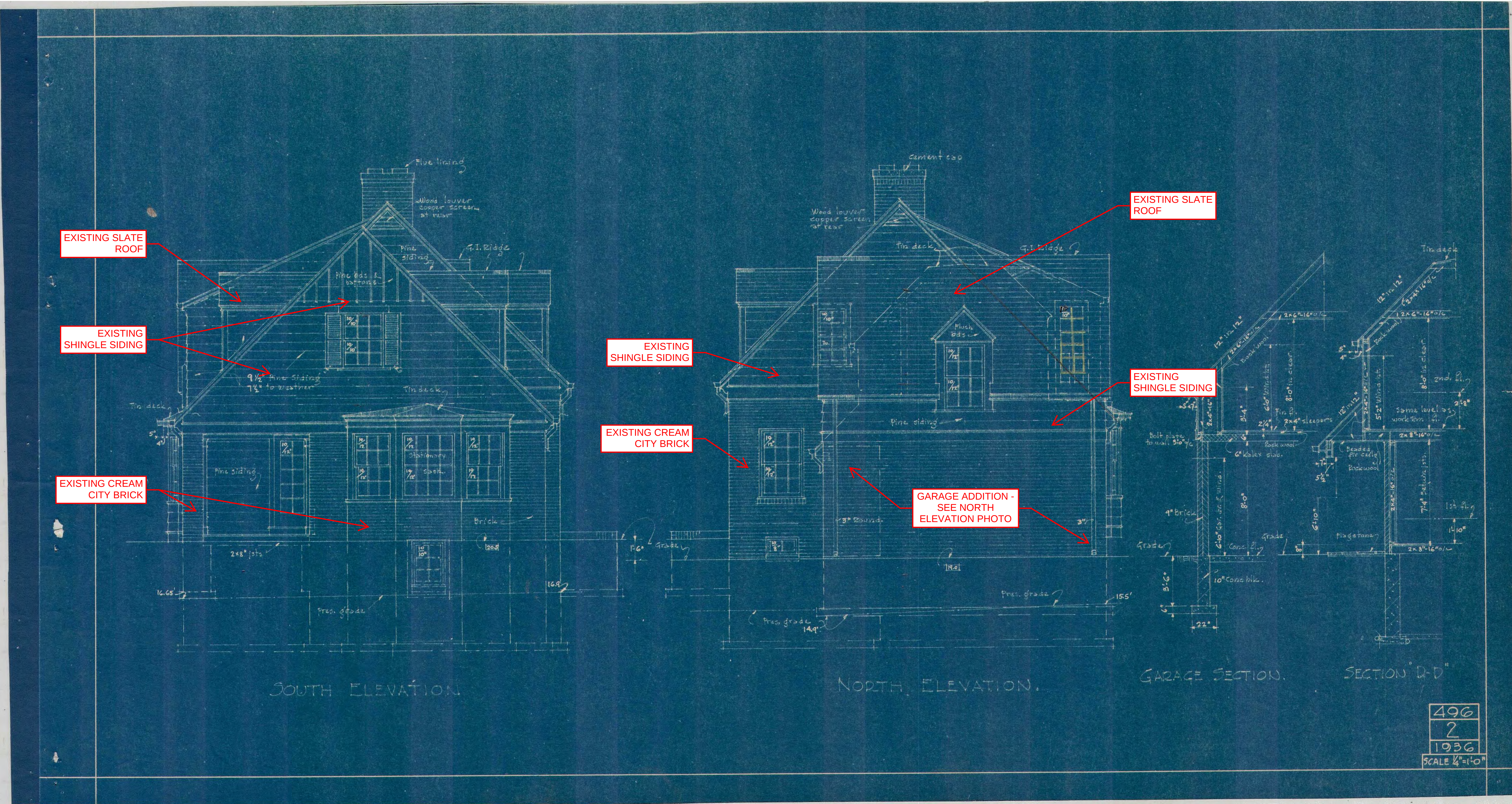
Square Footage Under Construction				
1 st Floor	2 nd Floor	Basement	Addition	Garage

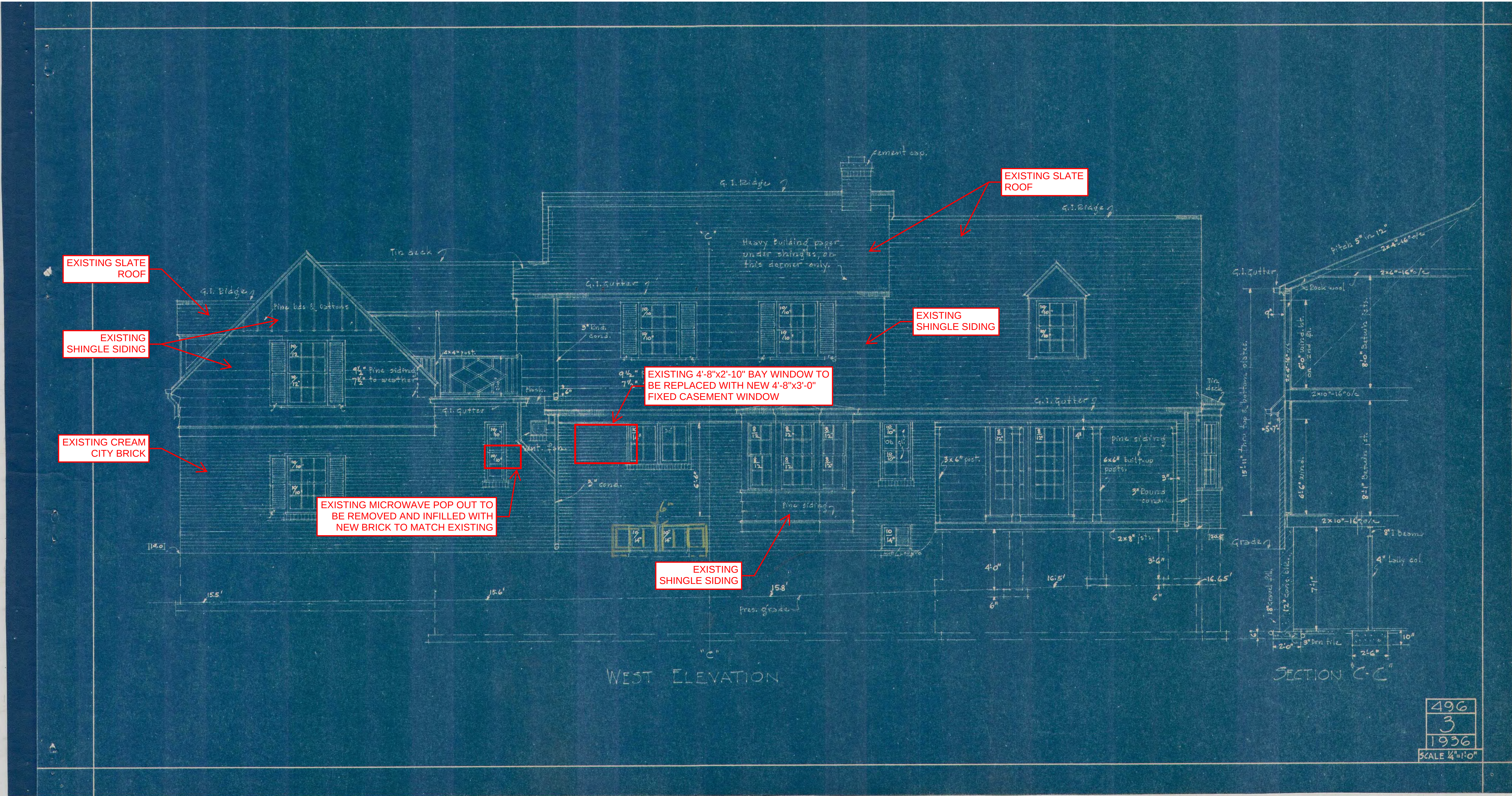
Description	Rate	Amount
Project - Per \$1,000 of estimated cost	\$10.00	
Building Board	\$75.00	
Footing early start - \$230.00 one and two family; \$305.00 commercial		
Plan Review - \$275.00 one and two family; New Single Family Construction \$330.00 plus \$30.00/unit commercial		
State Seal	\$75.00	
Razing, Interior Demolition \$925.00 max/bld	\$95.00 minimum plus	\$0.13/sqft
Moving buildings	\$250.00 plus	\$0.13/sqft
Fuel tanks - Per 1,000 gallons	\$25.00	
Re-inspection	\$100.00	
Work started without permit	Double	
	Minimum Fee	\$70.00
Payable to: Village of Fox Point	Total Permit Fee	\$

Applicant Signature MICHAEL GUERTIN **Date** _____

Rev 01/22

ISSUED PERMITS are available on the Village website under PERMITS & LICENSES





DEEP RIVER PARTNERS

240 N. Milwaukee Street
Suite #400
Milwaukee, WI 53202

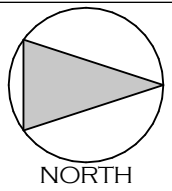
(414) 276.8550
deep-river.com

NOTE:
ALTHOUGH EVERY EFFORT HAS BEEN MADE IN PREPARING THESE CONTRACT DOCUMENTS AND CHECKING THEM FOR ACCURACY, THE CONTRACTORS MUST CHECK ALL DETAILS AND DIMENSIONS AND BE RESPONSIBLE FOR SAME. THE CONTRACTORS SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL WORK IS DONE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES. THE CONTRACT DOCUMENTS UTILIZE A PROCESS CALLED FREE DESIGN OR DESIGN/BUILD FOR ROOF, WINDOW, PLUMBING, ELECTRICAL, HVAC DETAILS, AND AS DESIGNATED IN THE SPECIFICATION AS "TO BE COMPLETED ON A DESIGN/BUILD BASIS." THIS MEANS THAT THE CONTRACT DOCUMENTS DO NOT INCLUDE ALL REQUIRED DETAILS, AND THAT THE CONTRACTORS SHALL, USING THEIR OWN STAFF OR QUALIFIED SUBCONTRACTORS, DESIGN AND BUILD THE FREE DESIGN AND DESIGN/BUILD PORTIONS OF THE WORK. THE CLIENT IS DIRECTLY CONTRACTING WITH THE CONTRACTORS AND THEREFORE THE CLIENT AND THE CONTRACTORS ARE ASSUMING THE DESIGN AND BUILD RESPONSIBILITY FOR THE FREE DESIGN AND DESIGN/BUILD PORTIONS OF THE PROJECT. DEEP RIVER PARTNERS, LTD. IS NOT RESPONSIBLE FOR INSPECTING ANY ASPECT OF THE CONTRACTORS' WORK, OR FOR OBSERVATION OF THE CONTRACTORS' WORK FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS.

Project# 2405
ACACIA REMODEL
312 E. ACACIA RD
FOX POINT, WI 53217

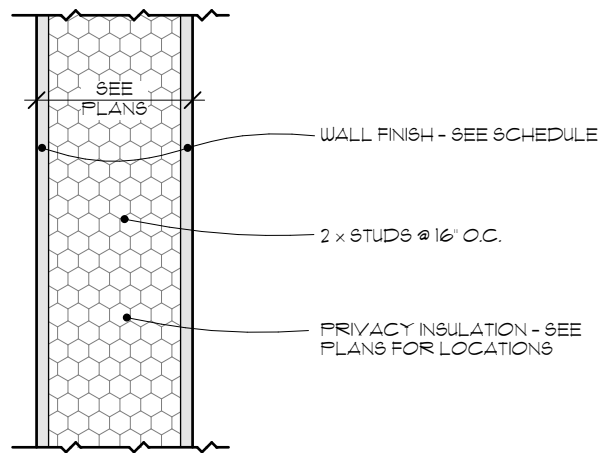
DESCRIPTION	DATE
BID SET	04.19.2024

FIRST & SECOND FLOOR PLANS

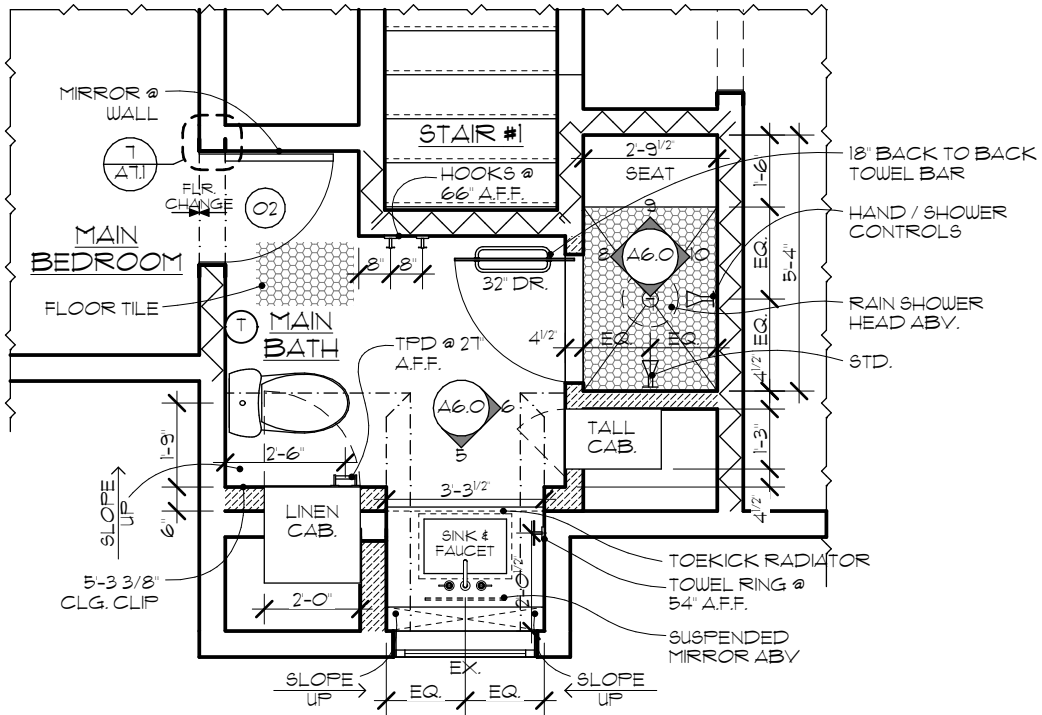


A1.1

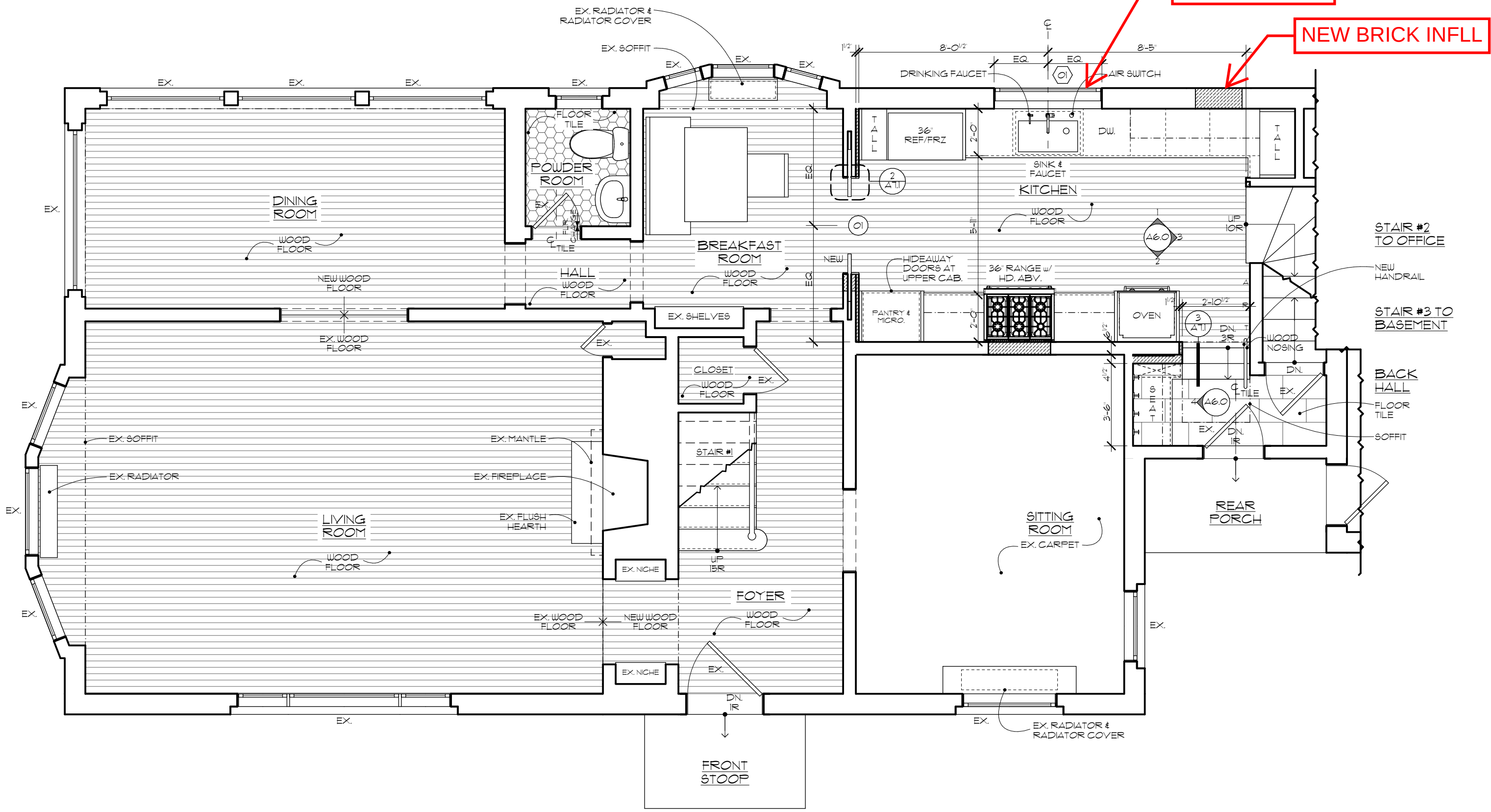
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3 WALL TYPES "A" SCALE: 1 1/2" = 1'-0"



2 SECOND FLOOR PLAN SCALE: 1/4" = 1'-0"



1 FIRST FLOOR PLAN SCALE: 1/4" = 1'-0"





1 EAST ELEVATION
SCALE: 1/8" = 1'-0"



EXISTING MICROWAVE POP OUT TO BE REMOVED AND INFILLED WITH NEW BRICK TO MATCH EXISTING

EXISTING 4'-8"x2'-10" BAY WINDOW TO BE REPLACED WITH NEW 4'-8"x3'-0" FIXED CASEMENT WINDOW



MARVIN CASEMENT WINDOW

① AREA OF WORK



EXISTING GARAGE ADDITION

1 NORTH ELEVATION
SCALE: 1/8"=1'-0"



1 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



1 WEST ELEVATION
SCALE: 1/8" = 1'-0"



VILLAGE OF FOX POINT
7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

Permit Number:

B-

OFFICE USE ONLY	
Issued Date	
Zoning	C, 60 Willow 60 Robert

BUILDING PERMIT

Job Address 302 E. Willow Rd	Building Type: Residential ☒ Commercial ☐
Description of Work	
Front stoop remodel; add a portico	
Estimated Cost of Project \$2,000	

Owner/Occupant Terrance & Victoria O'Neill	
Business Name	Contact Name Terrance O'Neill
Address 302 E. Willow	City/State/Zip
Phone 414-943-4231	Email terrance99@hotmail.com

****Cautionary Statement required when homeowner is applying for permit****

Contractor	
Company Name n/a	Contact Name
Address	City/State/Zip
Phone	Email
Dwelling Contractor #	Dwelling Contractor Qualifier #

Square Footage Under Construction				
1 st Floor	2 nd Floor	Basement	Addition 40	Garage

Description	Rate	Amount
Project - Per \$1,000 of estimated cost	\$10.00	
Building Board	\$75.00	75.00
Footing early start - \$230.00 one and two family; \$305.00 commercial		
Plan Review - \$275.00 one and two family; New Single Family Construction \$330.00 plus \$30.00/unit commercial		
State Seal	\$75.00	
Razing, Interior Demolition \$925.00 max/bld	\$95.00 minimum plus	
Moving buildings	\$250.00 plus	
Fuel tanks - Per 1,000 gallons	\$25.00	
Re-inspection	\$100.00	
Work started without permit	Double	
	Minimum Fee	\$70.00
Payable to: Village of Fox Point		Total Permit Fee \$

Applicant Signature

Terrance O'Neill

Date

4/22/2024

Rev 01/22

ISSUED PERMITS are available on the Village website under **PERMITS & LICENSES**

VILLAGE OF FOX POINT
7200 N. SANTA MONICA BLVD
FOX POINT WI 53217

414-351-8900

Receipt No: 1.060190

Apr 22, 2024

302 E WILLOW

Previous Balance:	.00
LICENSES & PERMITS - BUILDING PLANS - FILING FEE	75.00
24-44440 BUILDING PLANS-FILING FEE	
Total:	75.00
CHECK	75.00
Check No: 6351	
Payor: TERRANCE O'NEILL	
Total Applied:	75.00
Change Tendered:	.00

04/22/2024 8:44 AM



VILLAGE OF FOX POINT

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Fox Point, WI 53217

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CAUTIONARY STATEMENT TO OWNERS OBTAINING BUILDING PERMITS

101.65(1r) of the Wisconsin Statutes requires municipalities that enforce the Uniform Dwelling Code to provide an owner who applies for a building permit with a statement advising the owner that:

If the owner hires a contractor to perform work under the building permit and the contractor is not bonded or insured as required under s. 101.654(2)(a), the following consequences might occur:

- (a) The owner may be held liable for any bodily injury to or death of others or for any damage to the property of others that arises out of the work performed under the building permit or that is caused by any negligence by the contractor that occurs in connection with the work performed under the building permit.
- (b) The owner may not be able to collect from the contractor damages for any loss sustained by the owner because of a violation by the contractor of the one- and two- family dwelling code or an ordinance enacted under sub. (1)(a), because of any bodily injury to or death of others or damage to the property of others that arises out of the work performed under the building permit or because of any bodily injury to or death of others or damage to the property of others that is caused by any negligence by the contractor that occurs in connection with the work performed under the building permit.

Wetlands Notice to Permit Applicants

You are responsible for complying with state and federal laws concerning the construction near or on wetlands, lakes, and streams. Wetlands that are not associated with open water can be difficult to identify. Failure to comply may result in removal or modification of construction that violates the law or other penalties or costs. For more information, visit the Department of Natural Resources wetlands identification web page or contact a Department of Natural Resources service

Additional Responsibilities for Owners of Projects Disturbing One or More Acre of Soil

I understand that this project is subject to ch. NR 151 regarding additional erosion control and stormwater management and will comply with those standards.

Terrance O'Neill

Homeowner's Name – PRINTED

302 E. Willow

Property Address

Terrance O'Neill

Homeowner's Signature

4/18/2024

Date

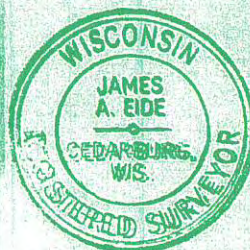
REGISTERED LAND SURVEYOR
WILSON B. SCHMIDT, Pres.
CLARENCE H. PIEPENBURG, Vice-Pres.
JAMES A. EIDE, Sec.-Treas.

PHONE CONCORD 4-3782
823 W. ATKINSON AVE.
MILWAUKEE 6, WIS.

PLAT OF SURVEY

Property at 302 E. Willow Road
Legal Description: Lot 1E, Block 5, Fox Point Garages, being a part of the South West 1/4
of Section 6, Township 8 North, Range 22 East, in the Village of Fox Point, Milwaukee
County, Wisconsin.

Owner

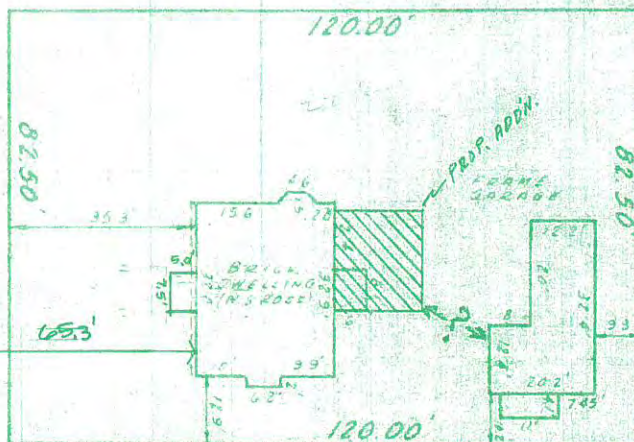


N. REGENT

(69 FT)

ROAD

E. WILLOW ROAD



Prepared for T. L. TOLAN, JR.

State of Wisconsin,
County of Milwaukee } ss.

I hereby certify that on the 2ND day of APRIL, 1957, I have accurately surveyed the above described property and that the above plat is a correct representation thereof and shows the exterior boundary lines and location of buildings and other improvements on said property and the correct measurements thereof.

Plat No. 57-256

Signed James A. Eide
Surveyor

Reg. No. 53



FRONT ELEVATION - PROPOSED

1/4" = 1' 0"

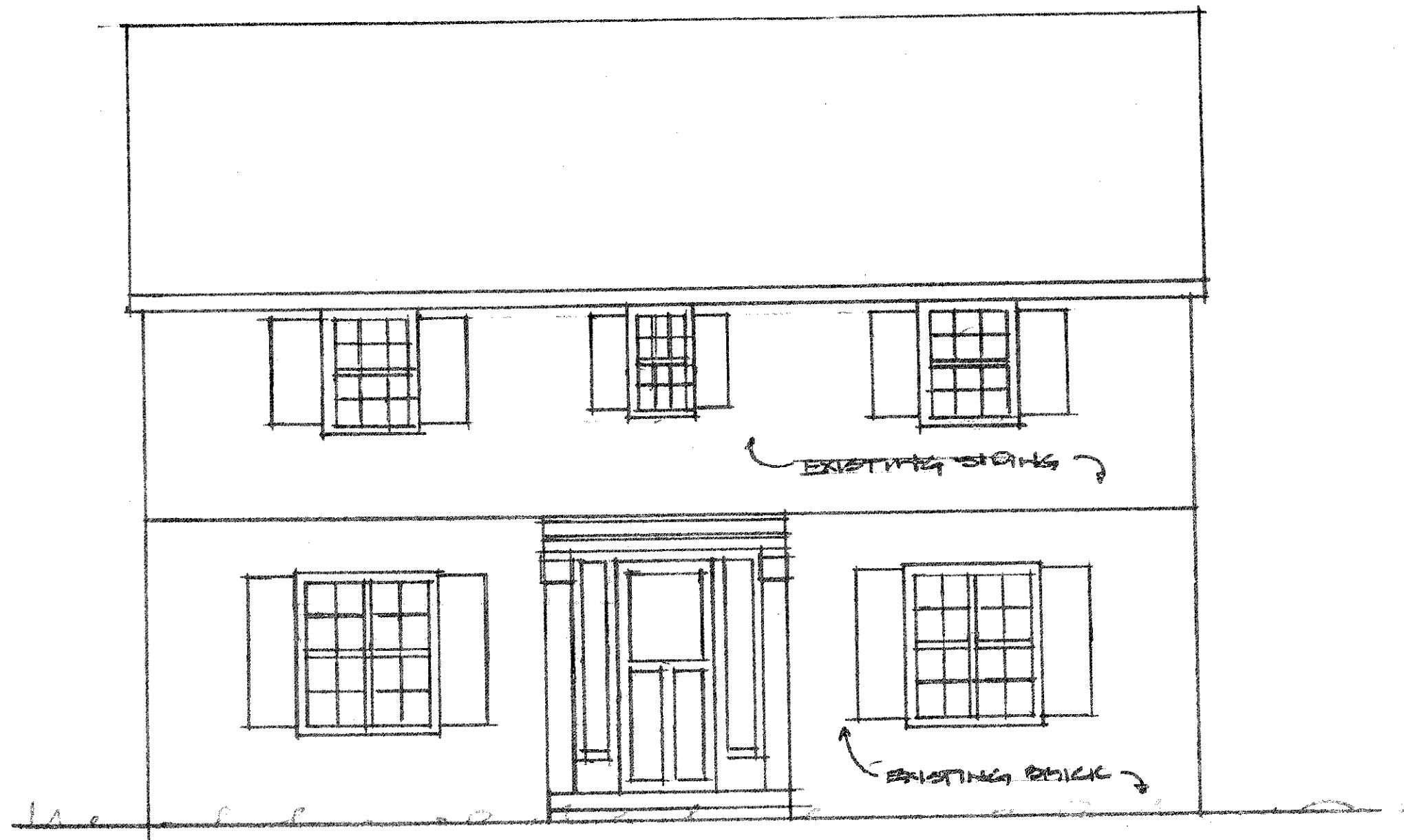
PROPOSED SHOP REMODEL FOR:

TERRY O'NEILL

302 E. WILLOW ROAD

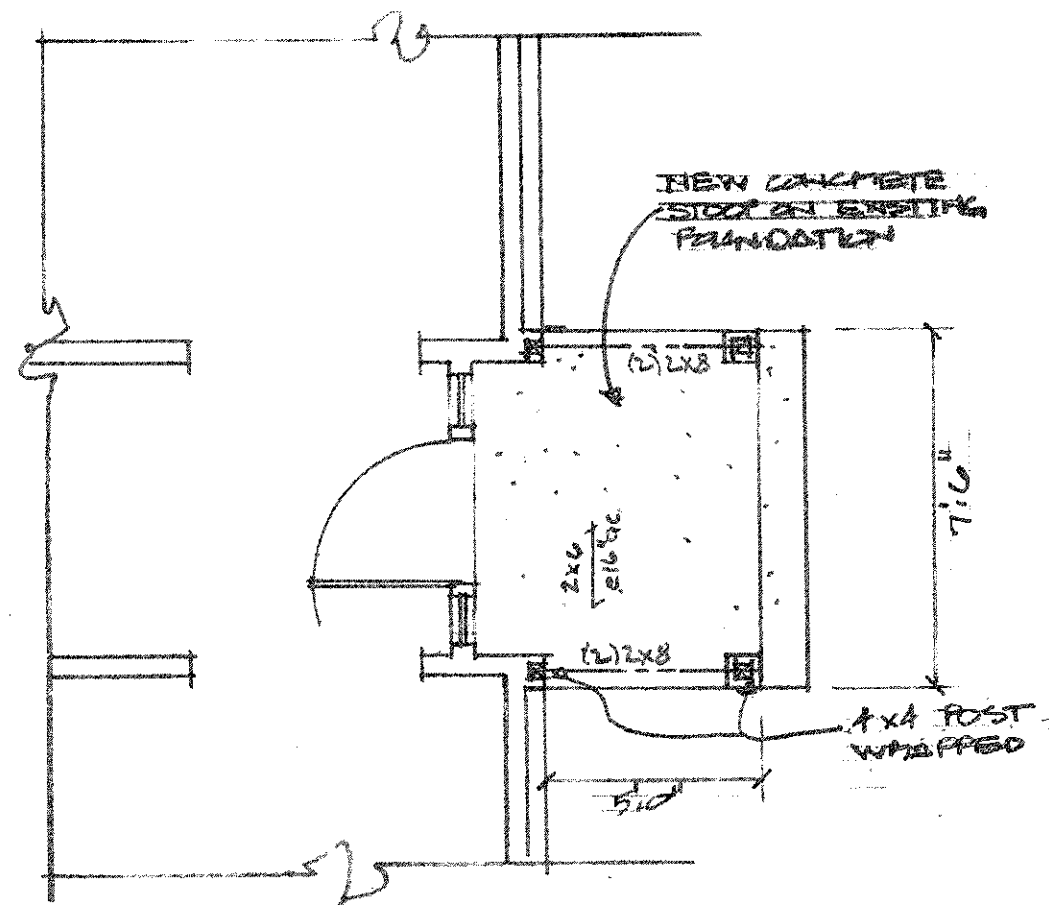
BY POINT WT



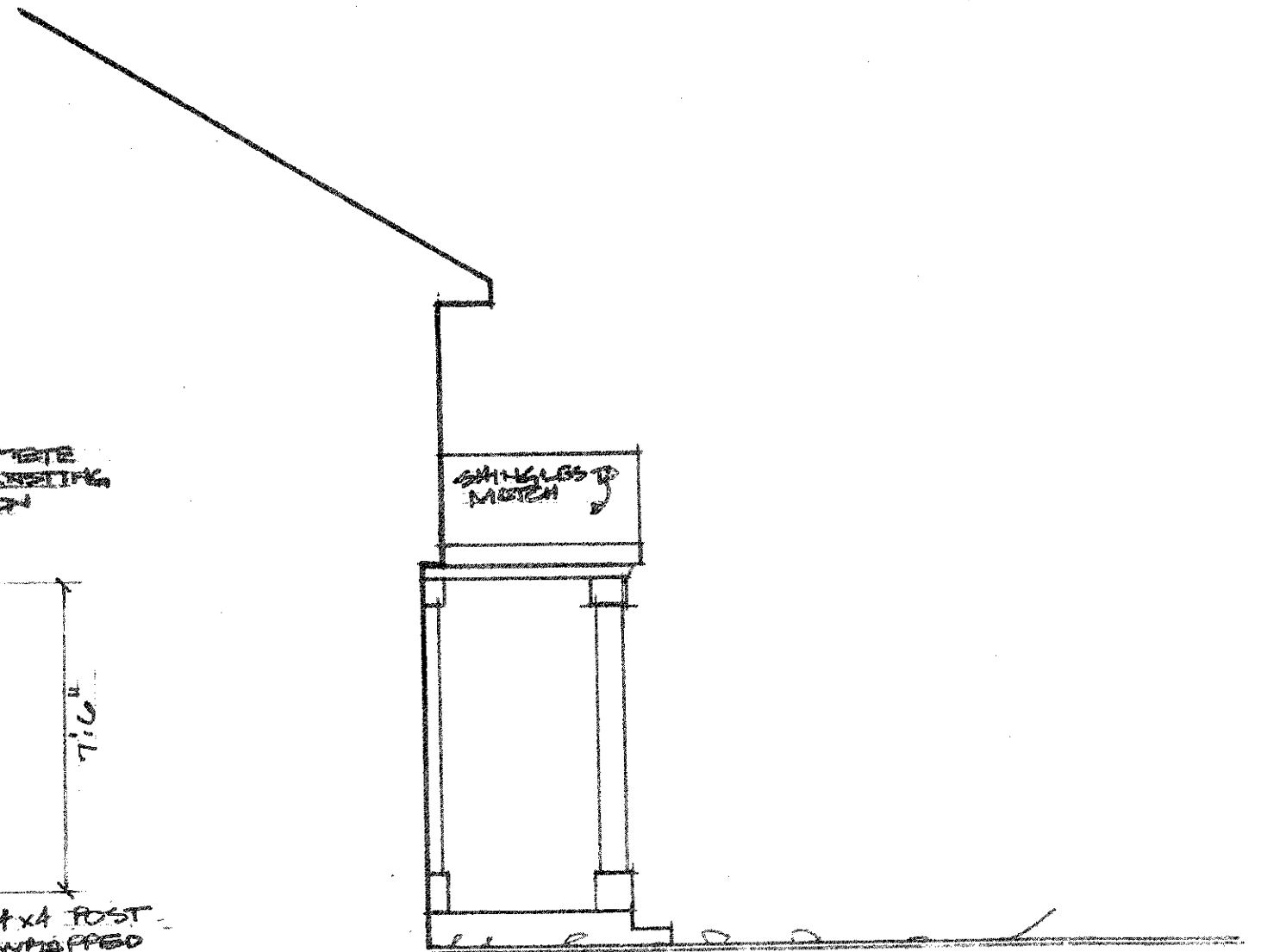


1 FRONT ELEVATION - EXISTING
2 1/4" = 1'-0"

PROPOSED STAIR REMODEL PLAN
TERRY O'NEILL
302 E. WILLOW ROAD
FOX LAKE, WI

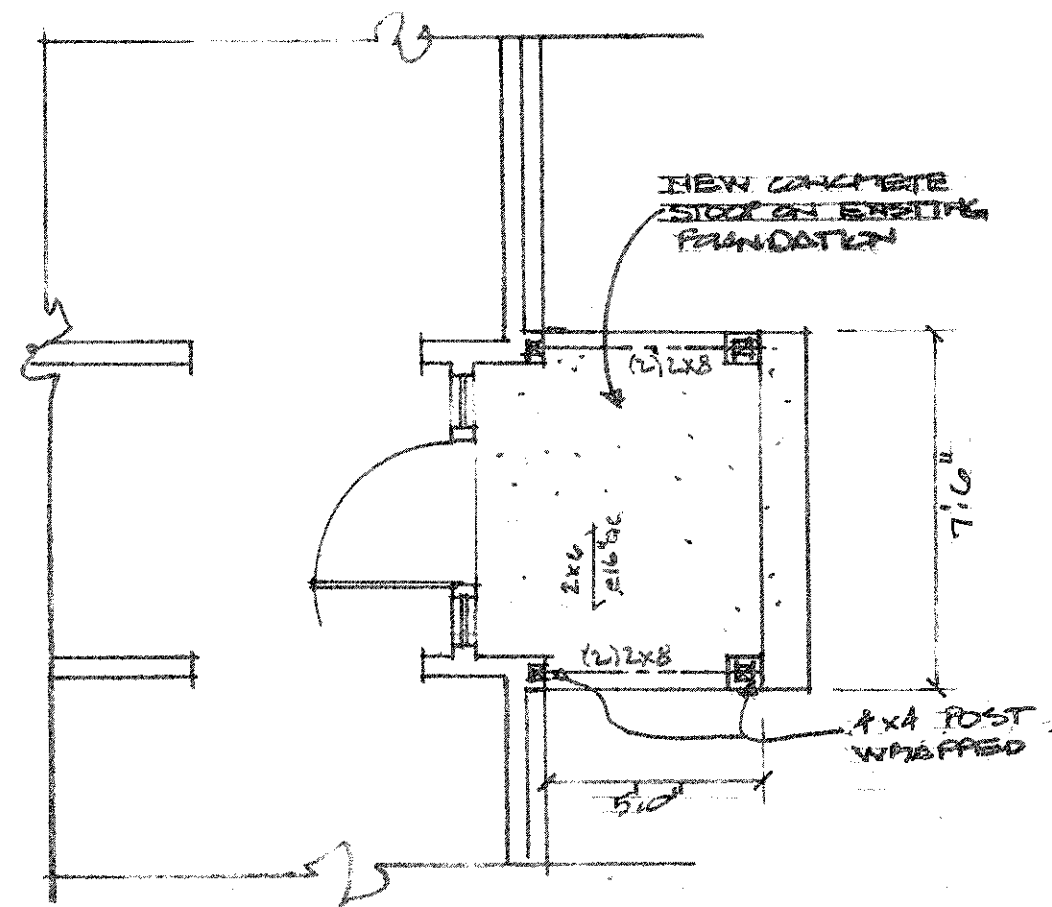


1' FLOOR PLAN
3 1/4" = 1'-0"

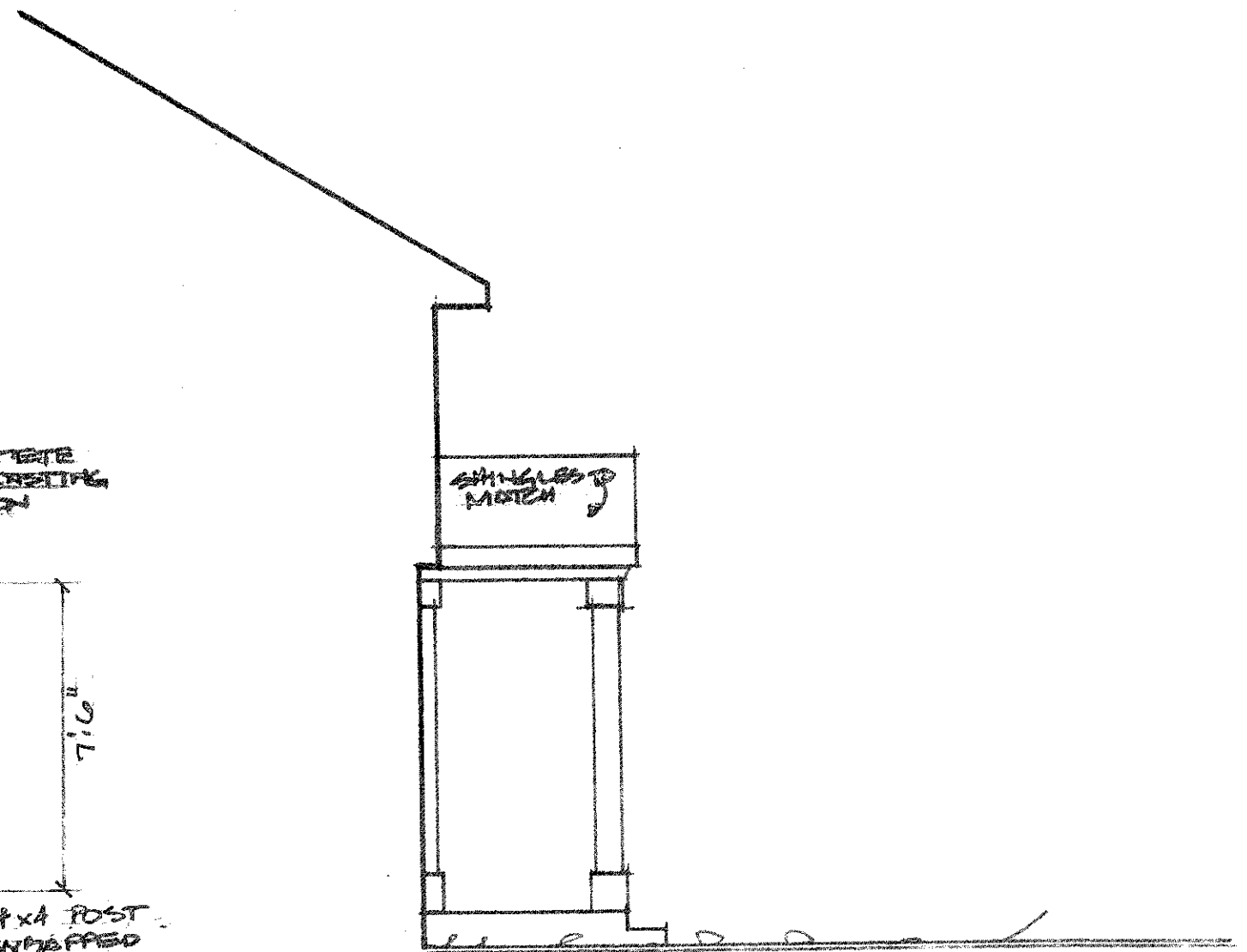


2' SIDE ELEVATION
3 1/4" = 1'-0"

PROPOSED STOOP REMODEL FOR: <u>TERRY O'NEILL</u> 302 E. WILLOW ROAD FOX POINT, WI	3
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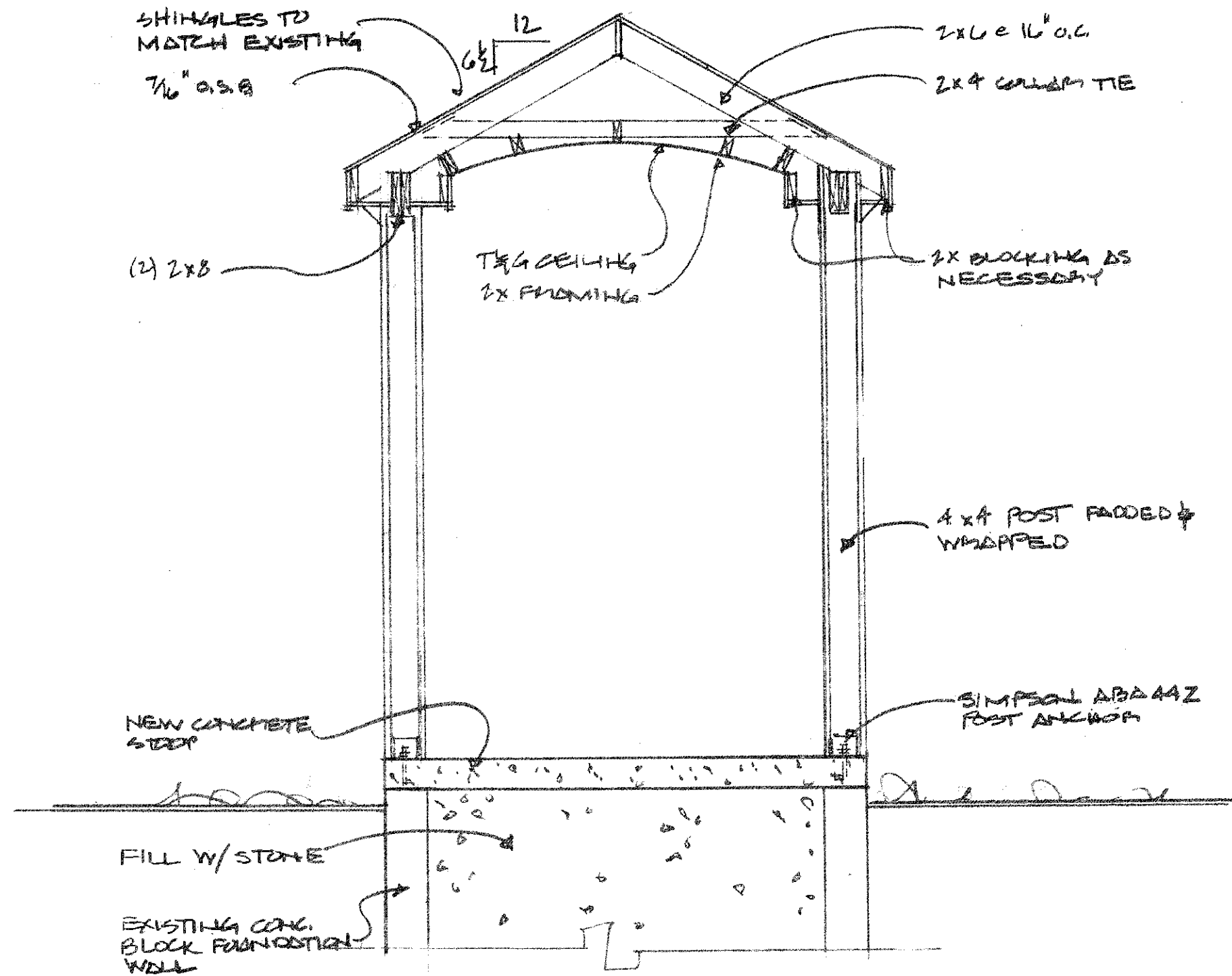


1 FLOOR PLAN
3 1/4" = 1'-0"



2 SIDE ELEVATION
3 1/4" = 1'-0"

PROPOSED STOOP REMODEL FOR:
TERRY O'NEILL
302 E. WILLOW ROAD
FOX POINT, WI



1
4 SECTION
1/2" = 1'-0"

PROPOSED STOOP REMODEL FOR:
TERREY O'NEILL
 302 E. WILLOW ROAD
 FOX POINT WI





VILLAGE OF FOX POINT

7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

BUILDING PERMIT APPLICATION

All applications must contain one (1) complete set of plans and specifications.

All plans must be drawn at a scale that adequately illustrates all of the required information in sufficient detail to demonstrate code compliance to the satisfaction of the Village staff reviewing the application. *Drawings that do not show all necessary detail shall be rejected.*

All applications for work proposed to the exterior of a property must be submitted to the Building Board for approval.

Additions

1. Building Board Required
2. Survey
3. Open Area Calculation
4. Site Plan
5. Building Elevations
6. Footing/Foundation Plan
7. Floor Plan
8. Cross Sections
9. Structural Details
10. Truss Plans/Layout
11. Tall Wall Design Calculations
12. Energy Calculations
13. Wall Bracing
14. Grading, Drainage and Erosion Control Permit (See Eng)
15. Fill Permit (See Eng)

Accessory Structures (≤ 100 sqft)

1. Survey - Showing the Location
2. Open Area Calculation
3. Building Elevations
4. Building Sections

Accessory Structures (> 100 sqft)

1. Building Board Required
2. Survey - Showing the Location
3. Open Area Calculation
4. Building Elevations
5. Footing/Foundation Plan
6. Building Sections

Decks

1. Building Board Required
2. Survey - Showing the Location
3. Open Area Calculation
4. Footing/Framing Plan



VILLAGE OF FOX POINT

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Fox Point, WI 53217
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Driveways

1. Permit Not Required
2. Three Foot Setback Required

Fences

1. Board of Appeals and Building Board, Case by Case Basis
2. Survey - Showing the Location
3. Fence Detail

Interior Remodels

1. Floor Plans
2. Structural Details

New Home Construction

1. Building Board Required
2. Survey
3. Open Area Calculation
4. Site Plan
5. Building Elevations
6. Footing/Foundation Plan
7. Floor Plan
8. Cross Sections
9. Structural Details
10. Truss Plans/Layout
11. Tall Wall Design Calculations
12. Energy Calculations
13. Wall Bracing
14. Grading, Drainage and Erosion Control Permit (See Eng)
15. Fill Permit (See Eng)
16. Culvert Permit (See Eng)

Pools/Hot Tub

1. Building Board Required
2. Survey - Showing the Location
3. Open Area Calculation
4. Pool/Hot Tub Information

Roofs

1. Building Board Required if Changing Roofline
2. Building Permit Required

Siding

1. Building Board, Case by Case Basis



VILLAGE OF FOX POINT

7200 N Santa Monica Blvd

Fox Point, WI 53217

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Solar Panels

1. Building Board Required
2. Survey - Showing the Location (Ground Mounted Only)
3. One Line Diagram
4. Open Area Calculation
5. Structural Calculations
6. System Layout
7. Connection Details
8. Equipment Information and Listing

Windows/Doors

1. Building Board, Case by Case Basis
2. Replacements That Fit in the Same Frame Area, Building Board Not Required

Rev 01/22



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- (b) The owner may not be able to collect from the contractor damages for any loss sustained by the owner because of a violation by the contractor of the one- and two- family dwelling code or an ordinance enacted under sub. (1)(a), because of any bodily injury to or death of others or damage to the property of others that arises out of the work performed under the building permit or because of any bodily injury to or death of others or damage to the property of others that is caused by any negligence by the contractor that occurs in connection with the work performed under the building permit.

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Additional Responsibilities for Owners of Projects Disturbing One or More Acre of Soil

I understand that this project is subject to ch. NR 151 regarding additional erosion control and stormwater management and will comply with those standards.

Homeowner's Name – PRINTED

Property Address

Homeowner's Signature

Date

**VILLAGE OF FOX POINT**

7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

Permit Number:**B-**

OFFICE USE ONLY
Issued Date
Zoning

BUILDING PERMIT

Job Address	Building Type: Residential - Commercial
Description of Work	
Estimated Cost of Project \$	

Owner/Occupant	
Business Name	Contact Name
Address	City/State/Zip
Phone	Email

****Cautionary Statement required when homeowner is applying for permit****

Contractor	
Company Name	Contact Name
Address	City/State/Zip
Phone	Email
Dwelling Contractor #	Dwelling Contractor Qualifier #

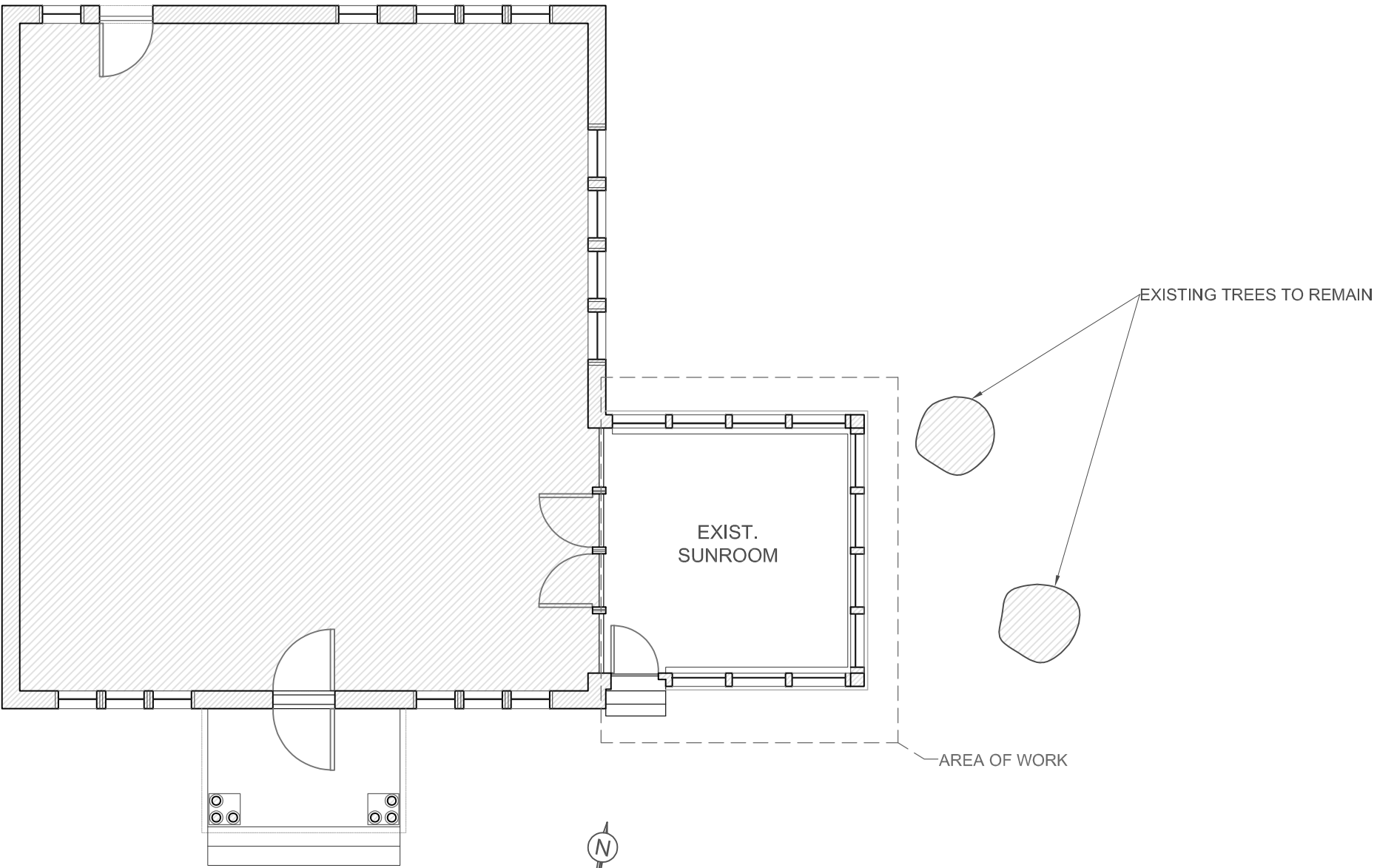
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1 st Floor	2 nd Floor	Basement	Addition	Garage

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Re-inspection	\$100.00	
Work started without permit	Double	
Minimum Fee	\$70.00	
Payable to: Village of Fox Point	Total Permit Fee	\$

Applicant Signature _____ **Date** _____

Rev 01/22

ISSUED PERMITS are available on the Village website under PERMITS & LICENSES



AS-BUILT PLAN

1/8" = 1'-0"

NORTH

Living Space

1205 E. Melnecke Avenue
Milwaukee, WI 53212
414-372-5722

Construction Mgr: Joe Shea - 414-875-7774

SUNROOM RENOVATION

EXISTING PLAN

ELIZABETH ELSER
6516 N. LAKE DR.
MILWAUKEE, WI 53217

Scale: 1/8" = 1'-0"

Date: 08 APRIL 2024

Designed by:

Drawn by:

Revision	By

A1



AS-BUILT SOUTH ELEVATION



AS-BUILT EAST ELEVATION



AS-BUILT NORTH ELEVATION

EXIST. FIN. FLR.
2'-6"
GRADE
0'-0"

1/8" = 1'-0"

Living Space

1205 E. Melnecke Avenue
Milwaukee, WI 53212
414-372-5722
Construction Mgr: Joe Shea - 414-975-7774

SUNROOM
RENOVATION

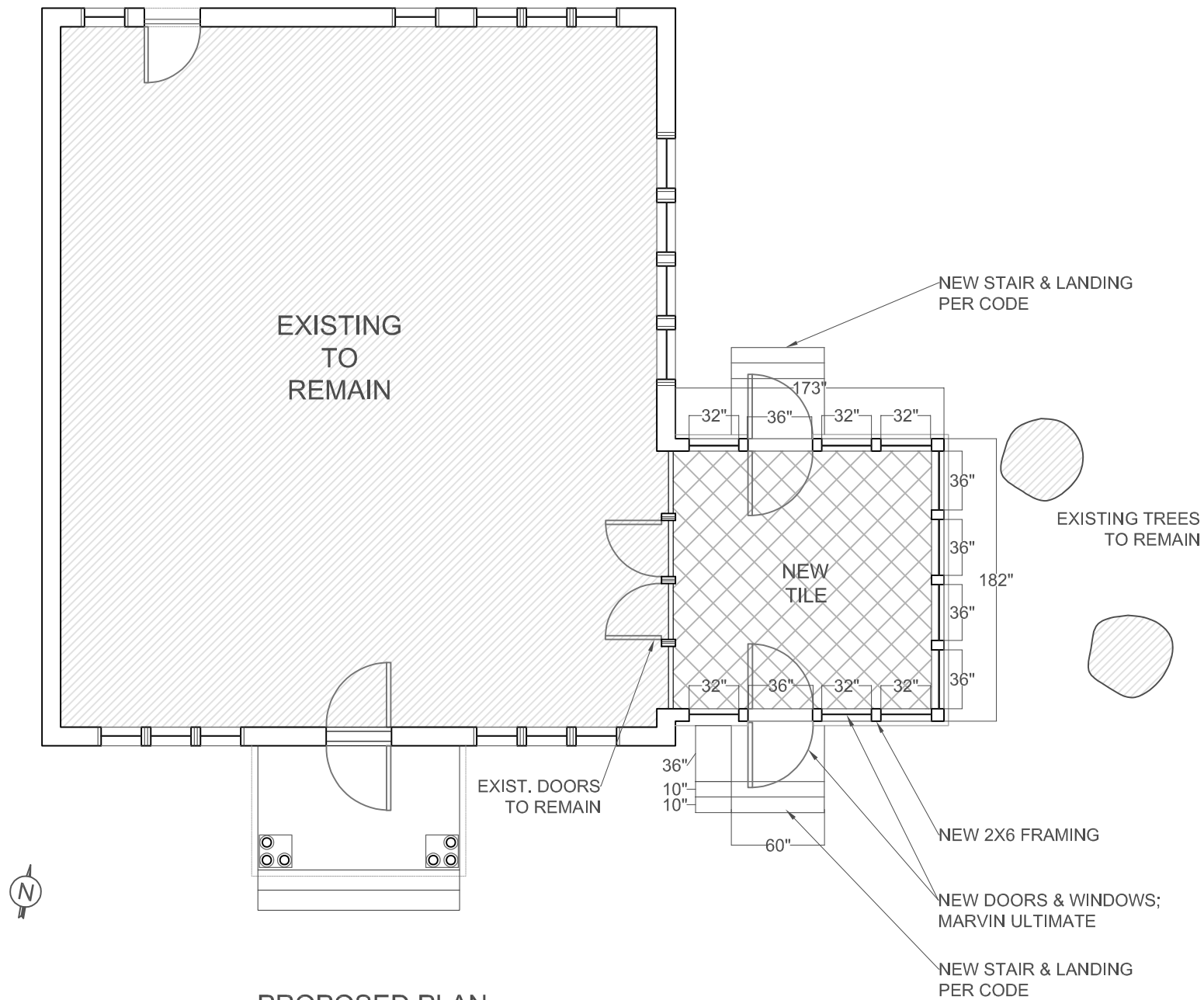
EXISTING
ELEVATIONS

ELIZABETH ELSEY
6516 N. LAKE DR.
MILWAUKEE, WI 53217

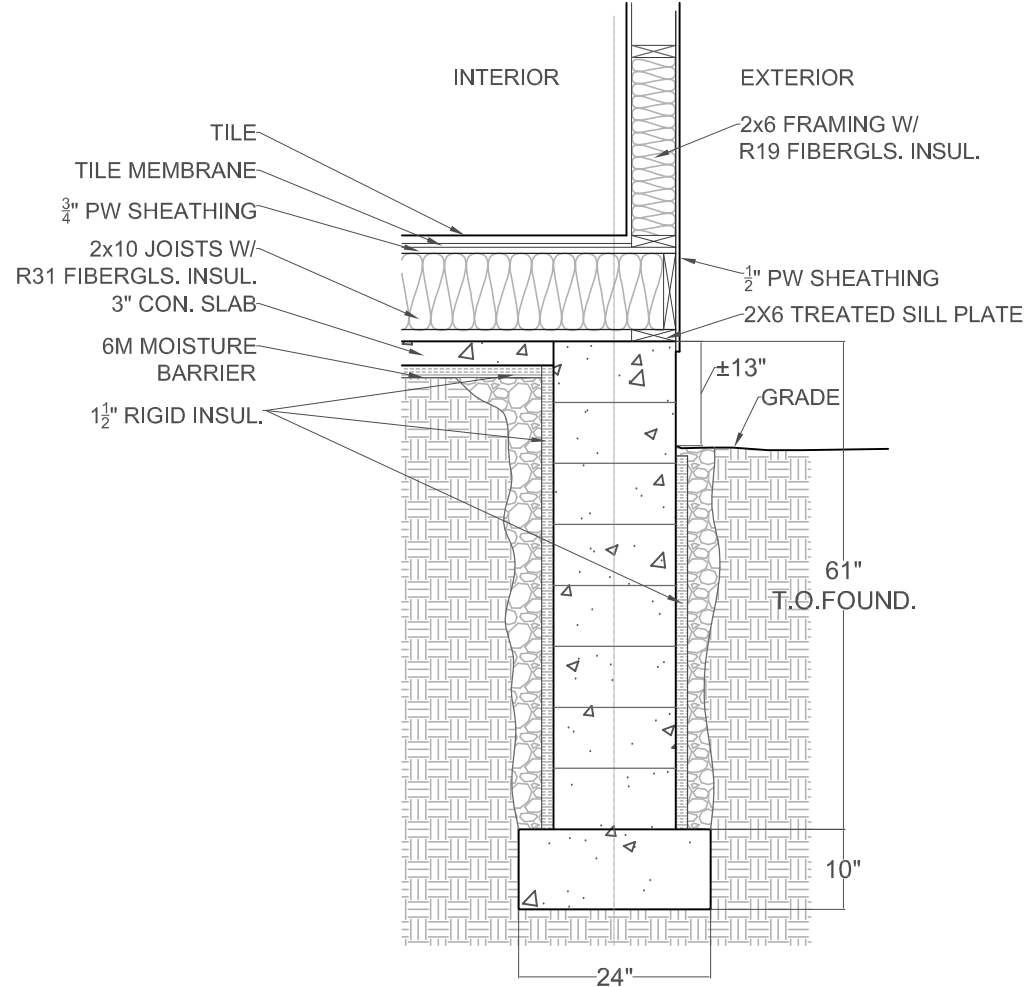
Scale: 1/8" = 1'-0"
Date: 08 APRIL 2024
Designed by:
Drawn by:

Revision
By

A2



PROPOSED PLAN
1/8" = 1'-0"



DETAIL SECTION @ FOUNDATION WALL
2" = 1'-0"



PROPOSED SOUTH ELEVATION



PROPOSED EAST ELEVATION



PROPOSED NORTH ELEVATION

EXIST. FIN. FLR. 2'-6"
GRADE 0'-0"
PORCH FIN. FLR. 2'-3"

NEW 2X6 FRAMING BETWEEN MULLED
WINDOW & DOOR UNITS
NEW STAIR & LANDING PER CODE

1/8" = 1'-0"

Living Space

1205 E. Main Street
Milwaukee, WI 53212
414-372-5722

Design-Build Co., Inc.

Construction Mgr. Joe Shea - 414-975-7774

SUNROOM
RENOVATION

PROPOSED
ELEVATIONS

ELIZABETH ELSEY
6516 N. LAKE DR.
MILWAUKEE, WI 53217

Scale: 1/8" = 1'-0"

Date: 08 APRIL 2024

Designed by:
Drawn by:

Revision

By

A4









**VILLAGE OF FOX POINT**

7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

Permit Number:**B-**

OFFICE USE ONLY
Issued Date
Zoning <u>C, 60</u>

BUILDING PERMIT

Job Address	Building Type: Residential ☒ Commercial ☐
Description of Work	<u>REPAIR EXISTING w/ 108 INCHES IN SIZE / DECK</u>
	<u>6801 N ZAYNARD</u>
Estimated Cost of Project \$	<u>25,400</u>

Owner/Occupant	<u>Elliot BERMAN</u>		
Business Name	Contact Name	<u>Elliot BERMAN</u>	
Address	City/State/Zip	<u>FOX POINT</u>	
Phone	Email		

****Cautionary Statement required when homeowner is applying for permit****

Contractor	
Company Name	<u>RUSSOVATE LLC</u>
Address	<u>124 S. TOWER PKWY</u>
Phone	<u>262-707-3879</u>
Dwelling Contractor #	<u>012000096</u>
Contact Name	<u>RUSSELL KLOTZ</u>
City/State/Zip	<u>PORT WASHINGTON, WI 53074</u>
Email	<u>RUSSELL@RUSSOVATE.COM</u>
Dwelling Contractor Qualifier #	<u>012000012</u>

Square Footage Under Construction				
1 st Floor	2 nd Floor	Basement	Addition	Garage

Description	Rate	Amount
Project - Per \$1,000 of estimated cost	\$10.00	254.00
Building Board	\$75.00	75.00
Footing early start - \$230.00 one and two family; \$305.00 commercial		
Plan Review - \$275.00 one and two family; New Single Family Construction \$330.00 plus \$30.00/unit commercial		
State Seal	\$75.00	
Razing, Interior Demolition \$925.00 max/bld	\$95.00 minimum plus	
Moving buildings	\$250.00 plus	
Fuel tanks - Per 1,000 gallons	\$25.00	
Re-inspection	\$100.00	
Work started without permit	Double	
Minimum Fee	\$70.00	
Payable to: Village of Fox Point	Total Permit Fee	\$ 254.00

\$ 329.00

Applicant Signature

Rev 01/22

Date

4/24/24

ISSUED PERMITS are available on the Village website under **PERMITS & LICENSES**

VILLAGE OF FOX POINT
7200 N. SANTA MONICA BLVD
FOX POINT WI 53217

414-351-8900

Receipt No: 1.080211

Apr 24, 2024

6801 N Reynard Road

Previous Balance:	.00
LICENSES & PERMITS - BUILDING PERMIT	264.00
24-44460 BUILDING PERMIT	
LICENSES & PERMITS - BUILDING PLANS - FILING FEE	75.00
24-44440 BUILDING PLANS-FILING FEE	
Total:	329.00
CHECK	329.00
Check No: 5944	
Payor: Berman	
Total Applied:	329.00
Change Tendered:	.00

Duplicate Copy

04/24/2024 2:52 PM

ZUSATZ III

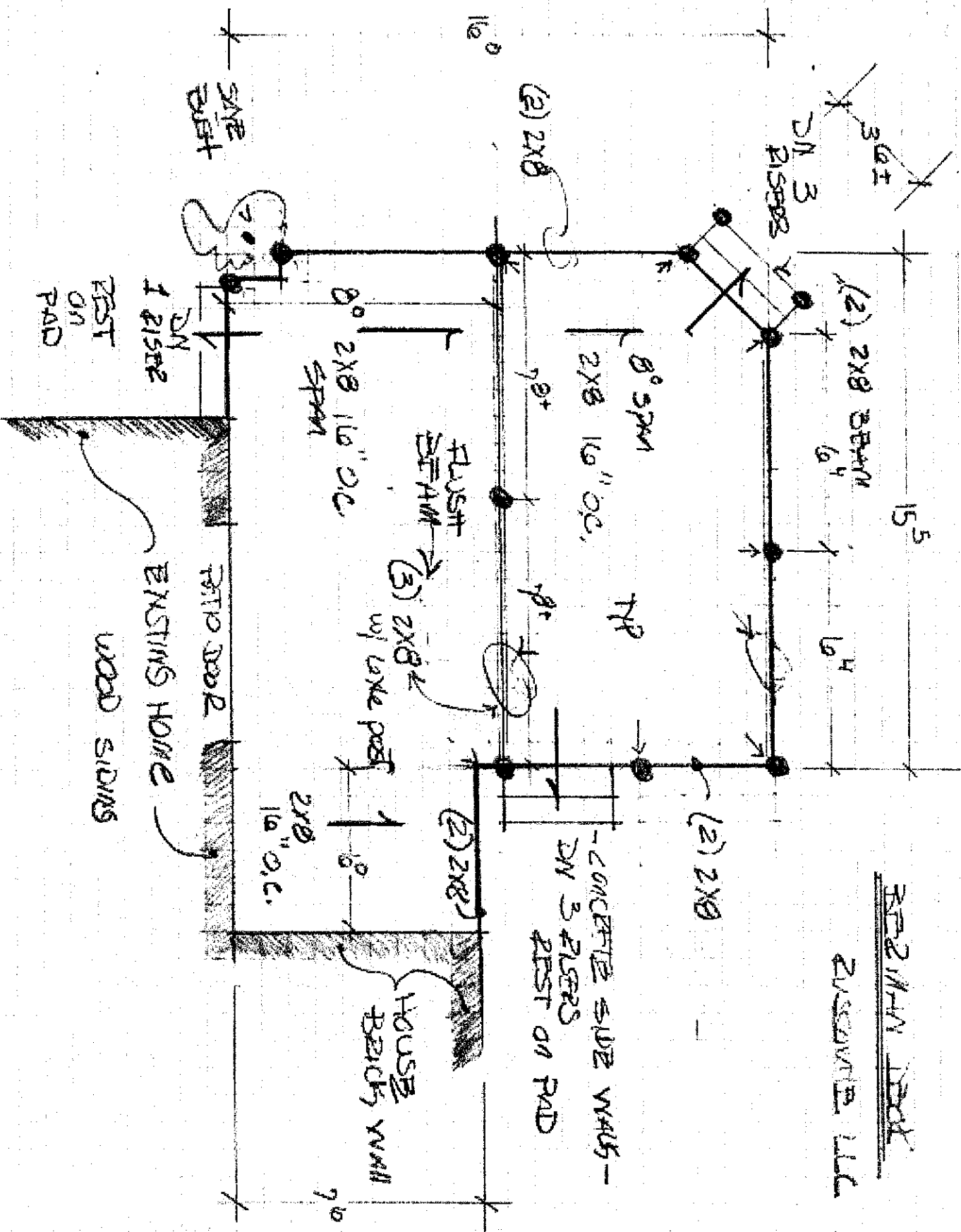
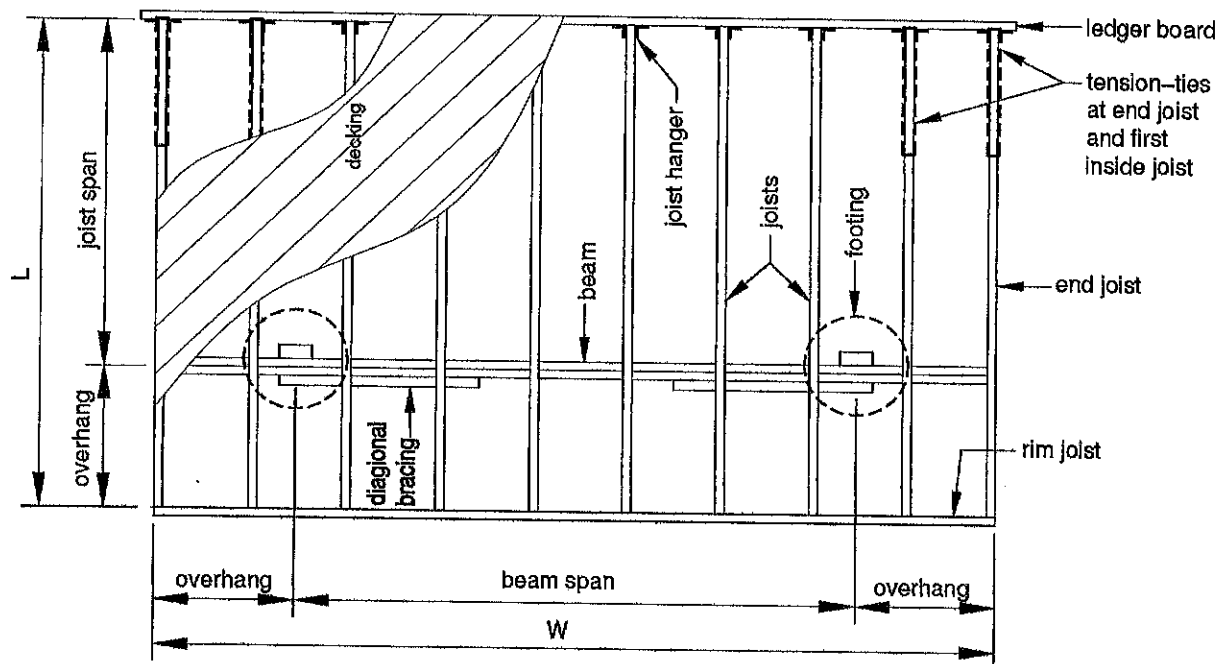


Figure 35
TYPICAL DECK FRAMING PLAN



Decking: ☐ 2x4 ☐ 2x6 ☐ five-quarter board ☒ wood-plastic composite (per ASTM D 7032)
☐ Other decking, evaluation report number: _____

Joists: size: ☐ 2x6 ☒ 2x8 ☐ 2x10 ☐ 2x12 spacing: ☐ 12 in. ☒ 16 in. ☐ 24 in.
 joist span dimension: _____ ft. - _____ in.
 overhang: ☐ Yes ☒ No overhang dimension: _____ ft. - _____ in.
 rim joist: ☐ 2x6 ☒ 2x8 ☐ 2x10 ☐ 2x12

Beam(s): number of plies: ☒ 2 ☐ 3 size: ☐ 2x6 ☒ 2x8 ☐ 2x10 ☐ 2x12
 overhang: ☐ Yes ☒ No overhang dimension: _____ ft. - _____ in.

Posts: size: ☐ 4x4 ☐ 4x6 ☒ 6x6 height: 0 ft. - 6 1/2 in.

Footings: size: _____ in. ☐ square ☐ round thickness: _____ in. DIAMONDPIER

Ledger: ledger board size: ☒ 2x8 ☐ 2x10 ☐ 2x12 ☐ Not applicable (free-standing deck)
 fastener: ☐ Through bolt ☐ Lag screw ☐ Wood screw
☐ Expansion anchor ☐ Adhesive anchor

Lateral support: ☒ Tension-tie ☐ Diagonal bracing, size: ☐ 2x
 (not permitted for free-standing deck)

Deck size: L = 16 ft. - 0 in. W = 17 ft. - 0 in.



VILLAGE OF FOX POINT
7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

CAUTIONARY STATEMENT TO OWNERS OBTAINING BUILDING PERMITS

101.65(1r) of the Wisconsin Statutes requires municipalities that enforce the Uniform Dwelling Code to provide an owner who applies for a building permit with a statement advising the owner that:

If the owner hires a contractor to perform work under the building permit and the contractor is not bonded or insured as required under s. 101.654(2)(a), the following consequences might occur:

- (a) The owner may be held liable for any bodily injury to or death of others or for any damage to the property of others that arises out of the work performed under the building permit or that is caused by any negligence by the contractor that occurs in connection with the work performed under the building permit.
- (b) The owner may not be able to collect from the contractor damages for any loss sustained by the owner because of a violation by the contractor of the one- and two- family dwelling code or an ordinance enacted under sub. (1)(a), because of any bodily injury to or death of others or damage to the property of others that arises out of the work performed under the building permit or because of any bodily injury to or death of others or damage to the property of others that is caused by any negligence by the contractor that occurs in connection with the work performed under the building permit.

Wetlands Notice to Permit Applicants

You are responsible for complying with state and federal laws concerning the construction near or on wetlands, lakes, and streams. Wetlands that are not associated with open water can be difficult to identify. Failure to comply may result in removal or modification of construction that violates the law or other penalties or costs. For more information, visit the Department of Natural Resources wetlands identification web page or contact a Department of Natural Resources service

Additional Responsibilities for Owners of Projects Disturbing One or More Acre of Soil

I understand that this project is subject to ch. NR 151 regarding additional erosion control and stormwater management and will comply with those standards.

Elliot H. Berman

Homeowner's Name – PRINTED

6801 N Regard Rd Fox Point

Property Address



Homeowner's Signature

4.16.24

Date

McCLURE ENGINEERING ASSOCIATES, INC.
 Commercial Site Development
 Subdivision Design and Platting
 Planning and Plan Review
 Storm and Highway Design
 Drainage Studies
 Water Distribution Systems
 Sewer Collection Systems
 Construction Surveying and Stake out Services
 Structures

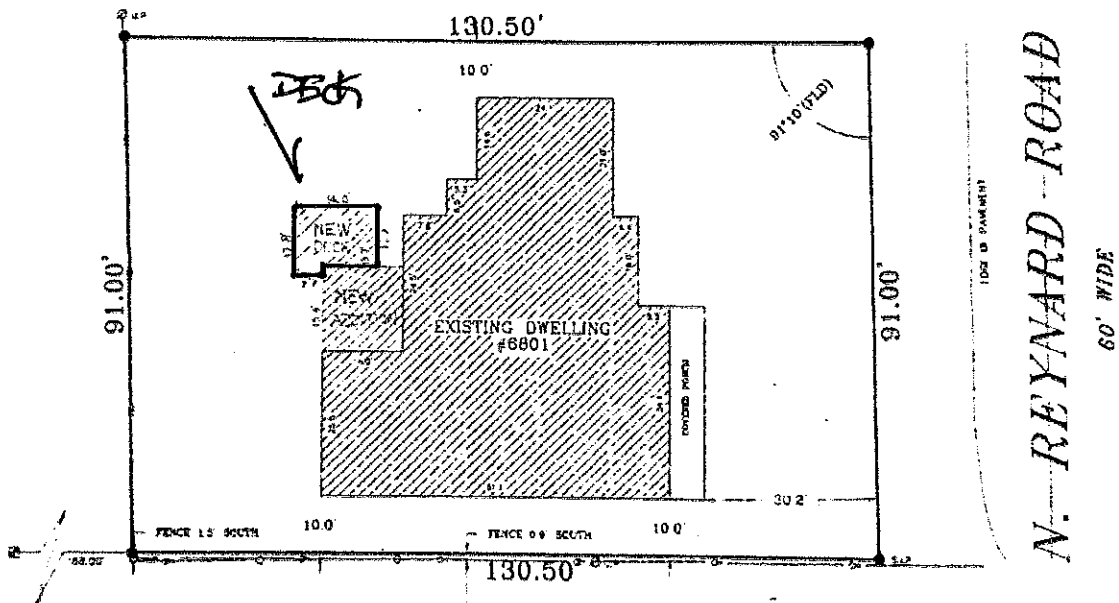
McCLURE ENGINEERING ASSOCIATES, INC.
 5417 NORTH 118TH COURT
 MILWAUKEE, WI 53225-0530
 (414) 616-4880 FAX (414) 616-4885
 mcclurem@worldnet.att.net

PROJ. NO. 06-13-98-213
 9821331

PLAT OF SURVEY
PREPARED FOR: D & E GENERAL CONTRACTORS

LEGAL DESCRIPTION:

THE SOUTH 91 FEET OF THE EAST 160.5 FEET OF THE WEST 328.5 FEET OF THE NORTHWEST 1/4 OF SECTION 21, TOWN 8 NORTH, RANGE 22 EAST, VILLAGE OF FOX POINT, MILWAUKEE COUNTY, WISCONSIN.



SOUTHWEST CORNER OF
 THE NORTHWEST 1/4
 SEC. 21-8-22

- - DENOTES IRON PIPE - FOUND
- S.P. - DENOTES IRON PIPE - SET
- - DENOTES OVERHEAD UTILITY LINES
- - DENOTES CHAIN LINK FENCE

SCALE N 1" = 20'

STATE OF WISCONSIN
 MILWAUKEE COUNTY

I hereby certify that I have surveyed the above described property and the above map is a true representation thereof and shows the site and location of the property, its exterior boundaries, the location of all visible structures and dimensions of all previous buildings thereon, boundary lines, adjacent easements, roadway and visible encroachments, if any.

This survey is made for the purpose of the plat of the property, and also those who purchase, mortgage, or otherwise, the use thereof within 10' from said survey.

Surveyed at MILWAUKEE, WISCONSIN this 17TH day of AUGUST 19 98

Surveyor: [Signature]

CHK BY: [Signature]
 DR BY: MDN









VILLAGE OF FOX POINT

7200 N Santa Monica Blvd

Fox Point, WI 53217

(414) 247-6622

www.villageoffoxpoint.com

CAUTIONARY STATEMENT TO OWNERS OBTAINING BUILDING PERMITS

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Additional Responsibilities for Owners of Projects Disturbing One or More Acre of Soil

I understand that this project is subject to ch. NR 151 regarding additional erosion control and stormwater management and will comply with those standards.

Homeowner's Name – PRINTED

Property Address



Homeowner's Signature

Date

**VILLAGE OF FOX POINT**

7200 N Santa Monica Blvd
Fox Point, WI 53217
(414) 247-6622
www.villageoffoxpoint.com

Permit Number:**B-****OFFICE USE ONLY**

Issued Date

Zoning

BUILDING PERMIT

Job Address	Building Type: Residential - Commercial
Description of Work	
Estimated Cost of Project \$	

Owner/Occupant	
Business Name	Contact Name
Address	City/State/Zip
Phone	Email

****Cautionary Statement required when homeowner is applying for permit****

Contractor	
Company Name	Contact Name
Address	City/State/Zip
Phone	Email
Dwelling Contractor #	Dwelling Contractor Qualifier #

Square Footage Under Construction				
1 st Floor	2 nd Floor	Basement	Addition	Garage

Description	Rate	Amount
Project - Per \$1,000 of estimated cost	\$10.00	
Building Board	\$75.00	
Footing early start - \$230.00 one and two family; \$305.00 commercial		
Plan Review - \$275.00 one and two family; New Single Family Construction \$330.00 plus \$30.00/unit commercial		
State Seal	\$75.00	
Razing, Interior Demolition \$925.00 max/bld	\$95.00 minimum plus	\$0.13/sqft
Moving buildings	\$250.00 plus	\$0.13/sqft
Fuel tanks - Per 1,000 gallons	\$25.00	
Re-inspection	\$100.00	
Work started without permit	Double	
	Minimum Fee	\$70.00
Payable to: Village of Fox Point	Total Permit Fee	\$

Applicant Signature _____ **Date** _____

Rev 01/22

ISSUED PERMITS are available on the Village website under **PERMITS & LICENSES**



Project Team

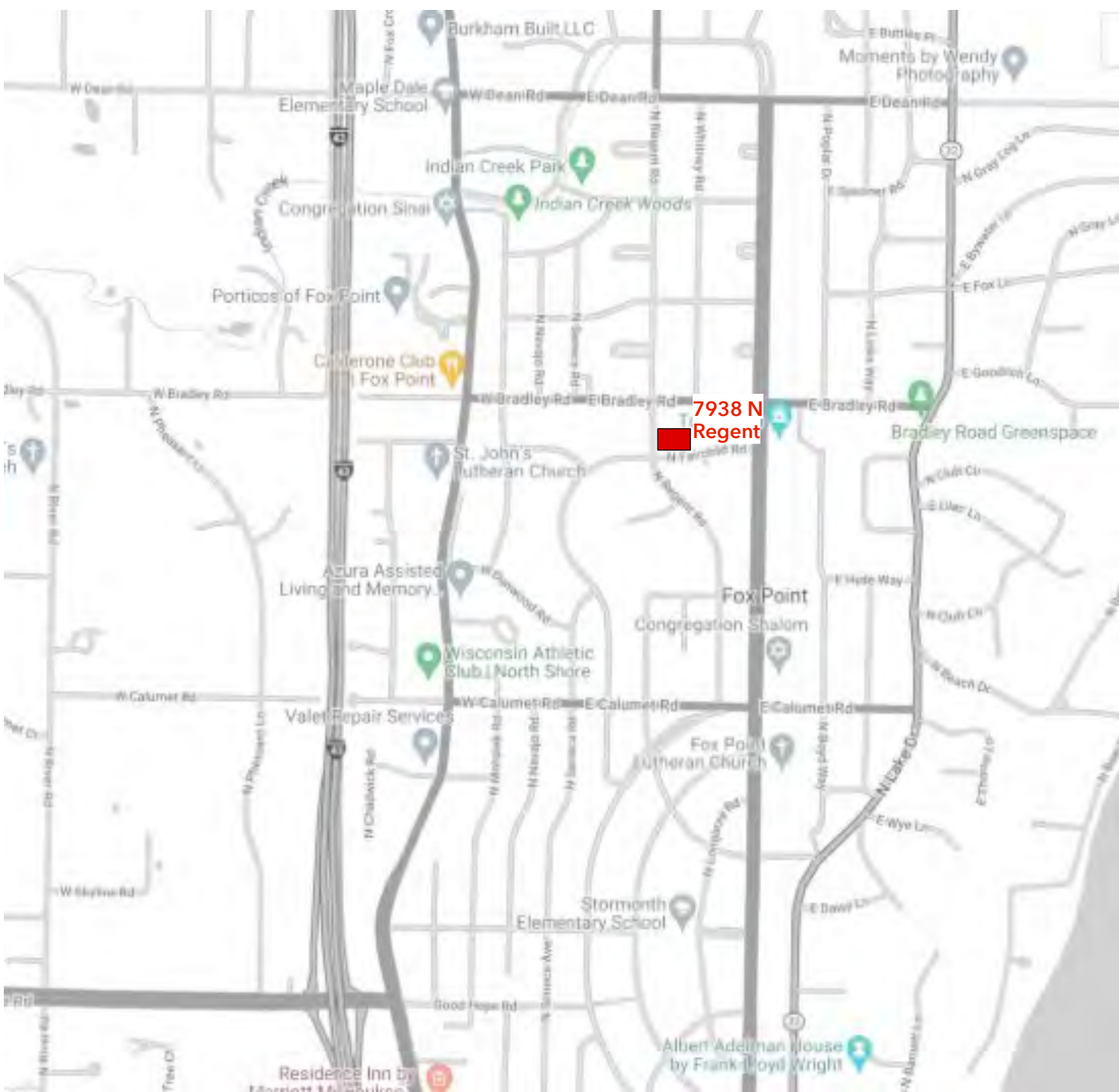
GENERAL CONTRACTOR
JOHN SAUERMILCH, JR.
1717 Cambridge Avenue
Sheboygan, WI 53081
(920) 458-5722
tyler@johnsauermilch.com

DESIGNER
Justin Racinski Design, LLC
7360 North Seneca Road
Fox Point, WI 53217
(414) 587-0595
jr@racydesign.com
www.racydesign.com

OWNER:
Alex Speaker + Kate Martin
7938 N. Regent Road
Fox Point, WI 53217

STRUCTURAL ENGINEER
Mike Blodgett, PE
Blodgett Engineering, LLC
W169 N10815 Redwood Lane
Germantown, WI 53022
blodgetteng@wi.rr.com
(262) 293-9923

Location Map



PROJECT INFO / LOCATION:

The Speaker Martin Garage Addition

7938 North Regent Road, Fox Point, WI 53217

Abbreviations

®	AT	HR	HR
ADJ	ADJUSTABLE	HT	HEIGHT
AFF	ABOVE FINISHED FLOOR	HVAC	HEATING, VENTILATING & AIR CONDITIONING
BL	BRICK LEDGE	INSUL	INSULATION
BITUM	BITUMINOUS	INT	INTERIOR
BLDG	BUILDING	LAV	LAVATORY
BRG	BEARING	MECH	MECHANICAL
C	CONDUIT	MFGR	MANUFACTURER
CAB	CABINET	MO	MASONRY OPENING
CH	COAT HOOK	MTD	MOUNTED
CJ	CONTROL JOINT	NIC	NOT IN CONTRACT
CPT	CARPET LINE	O.C.	ON CENTER
CL	CENTER LINE	O.D.	OUTSIDE DIAMETER
CLG	CEILING	PNT	PAINT
CL	CLOSET	R.C.	ROOF CONDUCTOR
CMU	CONCRETE MASONRY	R.D.	ROOF DRAIN
COL	COLUMN	REF	REFRIGERATOR
CONC	CONCRETE	RI	ROUGH IN
CONTR	CONTRACTOR	RO	ROUGH OPENING
CTR	COUNTER	SAN	SANITARY SEWER
DS	DOWNSPOUT	SH	SHELF
DTL	DETAIL	ST	STORM SEWER
DWG	DRAWING	STL	STEEL
ELEV	ELEVATION	STR	STRUCTURAL
ELEC	ELECTRIC	SS	STAINLESS STEEL
EQUIP	EQUIPMENT	SUSP	SUSPENDED
EXIST	EXISTING	T/C	TOP OF CONCRETE
FD	FLOOR DRAIN	T/S	TOP OF STEEL
FIN	FINISHED	TLT	TOILET
FLR	FLOOR	TYP	TYPICAL
FNDTN	FOUNDATION	UL	UNDERWRITER'S LABORATORY
GA	GAUGE	UNO	UNLESS NOTED OTHERWISE
GALV	GALVANIZED	V.L.F.	VERIFY IN FIELD
GYP BRD	GYP SUM BOARD	W/	WITH
HC	HANDICAPPED	WC	WATER CLOSET
HDR	HEADER		

Date

4/25/2024

Dimensions and measurements are approximate and for illustrative purposes only. The contractor shall independently verify all project measurements and existing conditions according to the contract documents. The contractor shall report any discrepancies or inconsistencies to the designer immediately, prior to commencing the associated work, so that any required remedial work can be performed.

Justin Racinski Design LLC shall not be liable for work not in accordance with the contract documents, including where the contractor has failed to comply with the above statement.

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Sheet Index

- A0.1** Structural Notes

A0.2 Proposed Survey

A1.0 Existing Plan

A1.1 Foundation Plan

A1.2 Framing Plan

A1.3 New Garage Floor Plan

A1.4 Electrical Plan

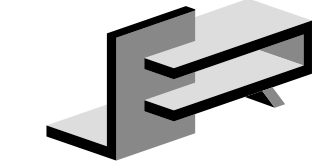
A1.5 Roof Plan
- A2.0** Existing Photos

A2.1 Renderings

A3.0 Exterior Elevations

A3.1 Exterior Elevations
- A4.0** Building Section

Rendering



RACINOWSKI
DESIGN
STUDIO

7360 NORTH SENECA ROAD
FOX POINT, WI 53217
T: (414) 587-0595
E: jr@racydesign.com
W: www.racydesign.com

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OWNER:
Alex Speaker + Kate Martin
7938 N. Regent Road
Fox Point, WI 53217

STRUCTURAL ENGINEER
BLODGETT ENGINEERING LLC
W169 N10815 Redwood Lane
Germantown, WI 53022
blodgetteng@wi.rr.com
(262) 293-9923

GENERAL CONTRACTOR
JOHN SAUERMILCH, JR.
1717 Cambridge Avenue
Sheboygan, WI 53081
(920) 458-5722
info@johnsauermilch.com

PROJECT INFO / LOCATION:

The Speaker Martin
Garage Addition
7938 N. Regent Road, Fox Point, WI 53217

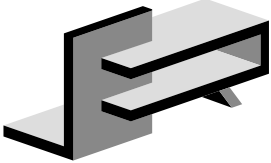
DATE:
4/25/2024

REVISIONS:
1
2

SHEET TITLE:
Title Page

SHEET: 36X24

A0.0



RACINOWSKI DESIGN STUDIO

7360 NORTH SENECA ROAD
FOX POINT, WI 53217
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W: www.racydesign.com

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OWNER:
Alex Speaker + Kate Martin
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info@johnsauermlich.com

PROJECT INFO / LOCATION:

The Speaker Martin Garage Addition

7938 N. Regent Road, Fox Point, WI 53217

DATE:
4/25/2024

REVISIONS:
1
2

SHEET TITLE:

Structural
Notes

SHEET: 36X24

A0.1

BLODGETT ENGINEERING LLC STRUCTURAL CONSULTING ENGINEERS

W169 N10815 Redwood Lane
Germantown, WI 53022
blodgetteng@wi.rr.com
Tel/Fax: 262.293.9923

JOB RACINOWSKI - SPEAKER

SHEET NO. _____ OF _____
CALCULATED BY MEB DATE 4/24/24

LOADS: Fox Point, WI

$SL = 30 \text{ psf}$

$DL = 20 \text{ psf}$

$RLL = 20 \text{ psf}$

USE: TJ1 560 - 11.875" @ 8" o/c FIRST 6 BAYS $\Delta = 0.502'$

TJ1 560 - 11.875" @ 12" o/c NEXT 4 BAYS $\Delta = 0.59'$

TJ1 560 - 11.875" @ 16" o/c REST OF ROOF $\Delta = 0.586'$
(PROVIDE RFP1 80S OR RFP1 90 AS ALTERNATES)

* ADD INSULATION TO MAKE SURE ROOF DRAINING PROPERLY
w/ UP TO 0.6" DEFLATION AT MIDDLE OF SPANS

CENTRAL BEAM:

$W_D = 20 \times \frac{42}{2} = 420 \text{ plf}$

$W_S = 30 \times \frac{42}{2} = 630 \text{ plf}$

$W_{S \text{ PLFT}} = 39.6 \times \frac{42}{2} = 831.6$

STEEL OPTION

USE: W12x26 - 50KSI

$\Delta = 0.696'$

- OR -

LVL OPTIONS

(3) 18" LVL (2.0E)

$\Delta = 0.805'$ (5" BRANDED)

(4) 18" LVL (2.0E)

$\Delta = 0.608'$ (3.5" BRANDED)

BLODGETT ENGINEERING LLC STRUCTURAL CONSULTING ENGINEERS

W169 N10815 Redwood Lane
Germantown, WI 53022
blodgetteng@wi.rr.com
Tel/Fax: 262.293.9923

JOB _____

SHEET NO. _____ OF _____
CALCULATED BY _____ DATE _____

COLUMNS BELOW BEAM:

APPLY BEAM REACTIONS → USE: 3" STANDARD PIPE COLUMN
w/ 3.5" O.D.

- OR -
(4) 2x6 SPF #2

FOUNDATION LOADS:

$W_S = 30 \times \left(\frac{20}{2} + 2.0\right) = 360 \text{ plf}$

$W_D = 20 \times \left(\frac{20}{2} + 2\right) = 240 \text{ plf}$

$WALL = 12 \text{ psf} \times 5' = 60 \text{ plf}$

* ATTEMPT TO MATCH EXISTING
FOOTING DEPTH

ANCHORS FOR WALL TO STUD WALL

$\frac{1}{2}" \phi$ HEADED ANCHORS @ 72" o/c OR AT ENDS OF
WALL PLATE SECTIONS.

BLODGETT ENGINEERING LLC STRUCTURAL CONSULTING ENGINEERS

W169 N10815 Redwood Lane
Germantown, WI 53022
blodgetteng@wi.rr.com
Tel/Fax: 262.293.9923

JOB _____

SHEET NO. _____ OF _____
CALCULATED BY _____ DATE _____

HEADERS:

18' WIDE - END $W_S = 30 \times 4.5' = 135 \text{ plf}$

$W_D = 20 \times 4.5' = 90 \text{ plf}$

USE: (2) 14.0" LVL (2.0E)

$\Delta = 0.379'$

10' END

SAME LOADS AS 18'

(2) 9.25" LVL (2.0E)

$\Delta = 0.131'$

12' WINDOWS:

$W_S = 30 \times \left(\frac{22}{2} + 2\right) = 390 \text{ plf}$

$W_D = 20 \times \left(\frac{22}{2} + 2\right) = 260 \text{ plf}$

DRIFT = 22 psf $\times \left(\frac{22}{2} + 2\right) = 286 \text{ plf} \rightarrow 0$

USE: (2) 11.875" LVL

2.0E

$\Delta = 0.865'$

SUPPORT JAMBS:

12' WINDOW IS HANDICAP

$MAX \text{ WALL} = \left(\frac{18}{2} + 6\right) \times 20 = 193.32 \text{ plf}$

$WIND \text{ AT } 12' = \left(\frac{12}{2} + 6\right) \times 20 = 133.33 \text{ plf}$

USE: (4) 2x4 SPF #2
STUDS AT WINDOW

AND 18" DOOR

(3) 2x6 SPF #2 AT NEW
10' DOOR

Snow Loads: ASCE 7-10

Roof slope = 7.1 deg
Horiz. eave to ridge dist (W) = 40.0 ft
Roof length parallel to ridge (L) = 81.0 ft

Type of Roof Monoslope
Ground Snow Load Pg = 30.0 psf
Risk Category II
Importance Factor I = 1.0
Thermal Factor Ct = 1.20
Exposure Factor Ce = 1.0

PF = 0.7"Ce"Ct"I"Pg = 25.2 psf
Unobstructed Slippery Surface = no

Sloped-roof Factor Cs = 1.00
Balanced Snow Load = 25.2 psf

Rain on Snow Surcharge Angle 0.80 deg
Code Maximum Rain Surcharge 5.0 psf
Rain on Snow Surcharge = 0.0 psf
Ps plus rain surcharge = 25.2 psf
Minimum Snow Load Pm = 20.0 psf

Uniform Roof Design Snow Load = 25.2 psf

Near ground level surface balanced snow load = 30.0 psf

NOTE: Alternate spans of continuous beams
shall be loaded with half the design roof snow
load so as to produce the greatest possible
effect - see code for loading diagrams and
exceptions for gable roofs.

Windward Snow Drifts 1 - Against walls, parapets, etc.

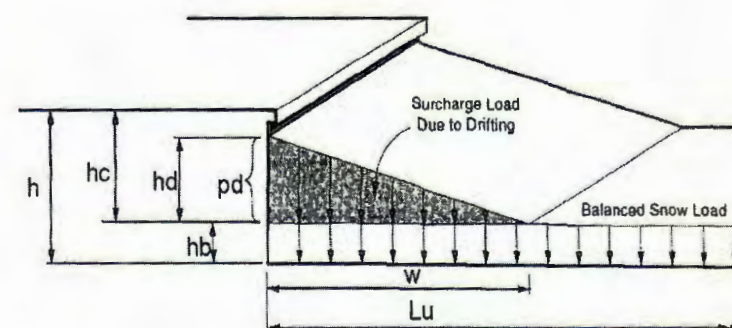
Upwind fetch lu = 27.0 ft
Projection height h = 9.7 ft
Snow density g = 17.9 pcf
Balanced snow height hb = 1.41 ft
hd = 1.31 ft
hc = 8.26 ft

Therefore, design for drift
= 1.31 ft
Drift height (hd) = 5.23 ft
Drift width w = 5.23 ft
Surcharge load: pd = Y*hd = 23.4 psf
Balanced Snow Load: = 25.2 psf

Windward Snow Drifts 2 - Against walls, parapets, etc.

Upwind fetch lu = 27.0 ft
Projection height h = 9.7 ft
Snow density g = 17.9 pcf
Balanced snow height hb = 1.41 ft
hd = 1.31 ft
hc = 8.26 ft

Therefore, design for drift
= 1.31 ft
Drift height (hd) = 5.23 ft
Drift width w = 5.23 ft
Surcharge load: pd = Y*hd = 23.4 psf
Balanced Snow Load: = 25.2 psf



Blodgett Engineering, LLC W169 N10815 Redwood Lane Germantown, WI 53022 262-293-9923

JOB TITLE Speaker - Fox Point

JOB NO. _____ SHEET NO. _____
CALCULATED BY MEB DATE 4/24/24
CHECKED BY MEB DATE 4/24/24

Snow Loads - from adjacent building or roof:

ASCE 7-10

Nominal Snow Forces

Higher Roof
Roof slope = 7.1 deg
Horiz. eave to ridge dist (W) = 40.0 ft
Roof length parallel to ridge (L) = 81.0 ft
Projection height (roof step) h = 9.7 ft
Building separation s = 0.0 ft

Lower Roof
0.25 / 12 = 1.2 deg

Type of Roof Monoslope
Ground Snow Load Pg = 30.0 psf
Risk Category II
Importance Factor I = 1.0
Thermal Factor Ct = 1.00
Exposure Factor Ce = 1.0

PF = 0.7"Ce"Ct"I"Pg = 21.0 psf
Unobstructed Slippery Surface = no

Sloped-roof Factor Cs = 1.00
Balanced Snow Load Ps = 21.0 psf

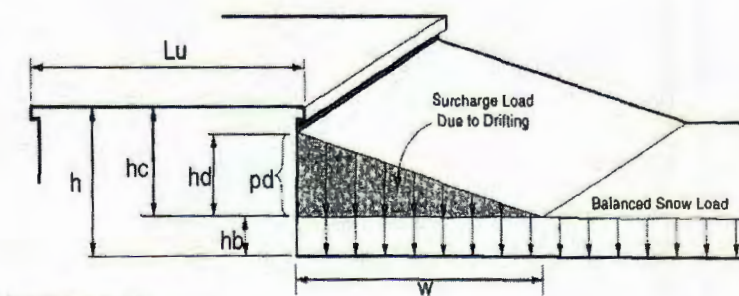
Rain on Snow Surcharge Angle 0.80 deg
Code Maximum Rain Surcharge 5.0 psf
Rain on Snow Surcharge = 0.0 psf
Ps plus rain surcharge = 21.0 psf
Minimum Snow Load Pm = 20.0 psf

Uniform Roof Design Snow Load = 21.0 psf
Building Official Minimum = 25.2 psf

NOTE: Alternate spans of continuous beams and
other areas shall be loaded with half the design
roof snow load so as to produce the greatest
possible effect - see code.

Leeward Snow Drifts - from adjacent higher roof

Upper roof length lu = 40.5 ft
Snow density g = 17.9 pcf
Balanced snow height hb = 1.41 ft
hc = 8.26 ft
hc/hb > 0.2 = 5.9
Therefore, design for drift
= 1.00
Drift height (hd) = 2.21 ft
Drift width w = 8.85 ft
Surcharge load: pd = Y*hd = 39.6 psf
Balanced Snow Load: = 25.2 psf



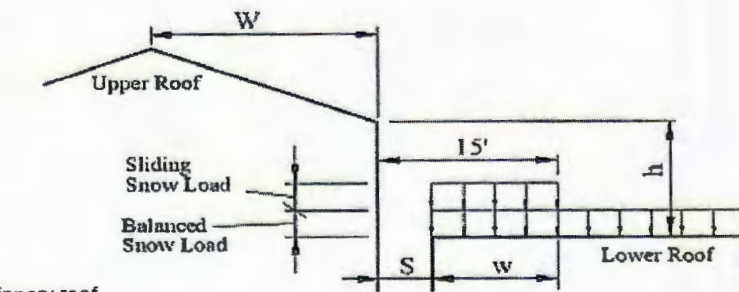
Windward Snow Drifts - from low roof against high roof

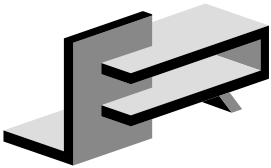
Lower roof length lu = 27.0 ft
Adj structure factor = 1.00
Drift height hd = 1.31 ft
Drift width w = 5.23 ft
Surcharge load: pd = Y*hd = 23.4 psf
Balanced Snow Load: = 25.2 psf

Sliding Snow - onto lower roof

Sliding snow = 0.4 PF W = 0.0 psf
Distributed over 15 feet = 0.0 psf
hd + hb = 1.41 ft
hd + hb < h therefore sliding snow = 0.0 psf
Balanced snow load = 25.2 psf
Uniform snow load = 25.2 psf

Not required since upper roof slope is 2 in 12 or less and non-slippery roof





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STUDIO

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info@johnsauermilch.com

Fox Point Zoning
District A-2 Residential

PROJECT INFO / LOCATION:

The Speaker Martin
Garage Addition

7938 N. Regent Road, Fox Point, WI 53217

DATE:
4/25/2024

REVISIONS:

1
2

SHEET TITLE:

Proposed
Survey

SHEET: 36X24

A0.2

PLAT NO. LS-5612-23
FIELD CREW: E.A.J. & S.F.Z.
DRAWN BY: A.R.H



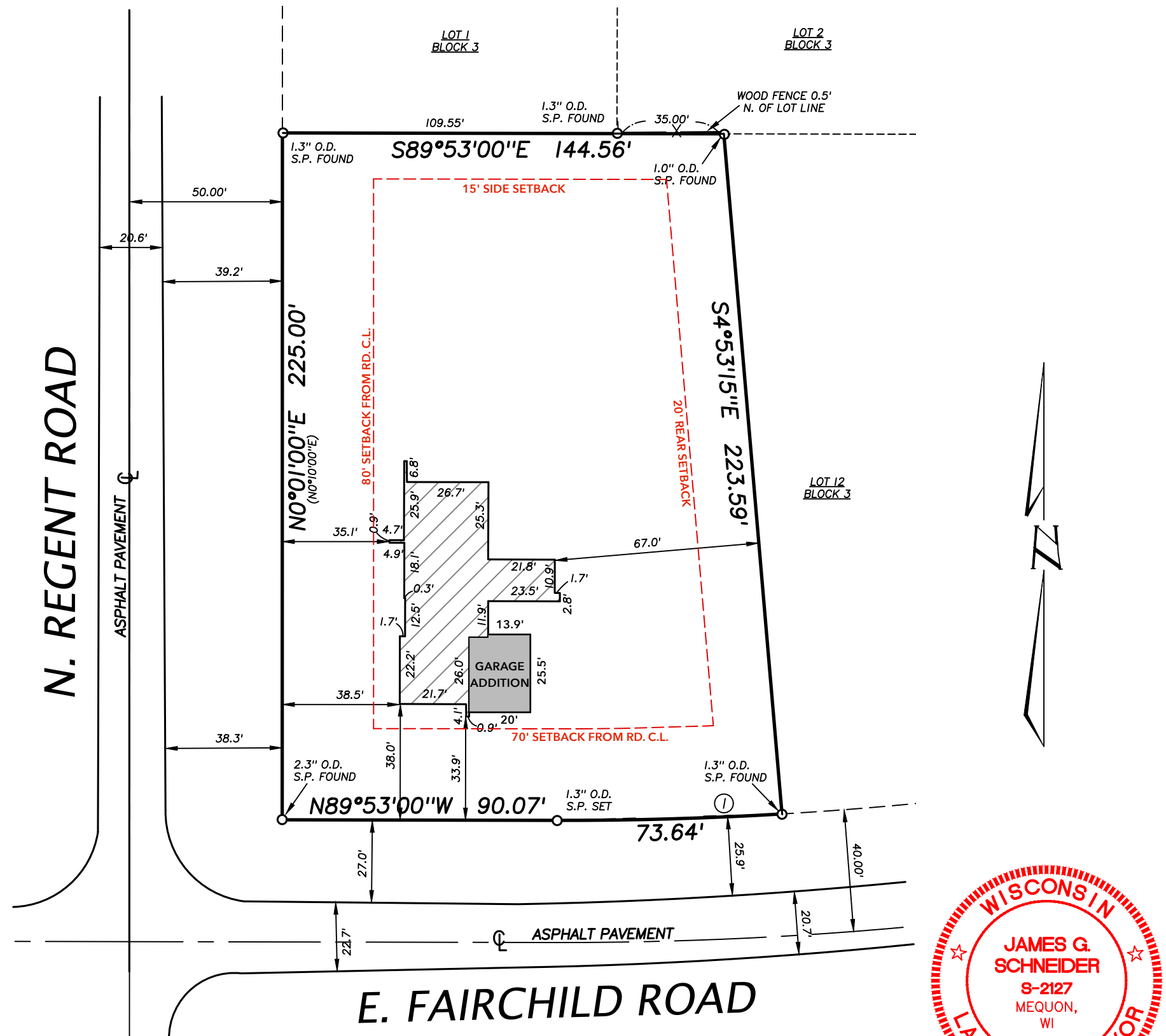
NORTH SHORE ENGINEERING, INC.
Consulting Engineers & Land Surveyors
11433 N. Port Washington Rd., Mequon, Wisconsin, 53092
(262) 241-9400 • FAX: (262) 241-5337
www.northshoreengineering.net

PLAT OF SURVEY

Prepared For: Alex Speaker/7938 N. Regent Road, Fox Point

Property Description: Lot 13, in Block 3, in "BACON HOMESITES", being a Subdivision of lands in the Northeast 1/4 of Section 17, and the Northwest 1/4 of Section 16, in Township 8 North, Range 22 East, in the Village of Fox Point, Milwaukee County, Wisconsin.

Said Parcel containing 34,644 sq. ft. / 0.795 acres of land, more or less.



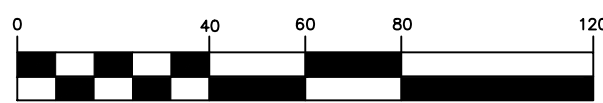
NOTES :

1. ALL BEARINGS REFERENCED TO THE NORTH LINE OF E. FAIRCHILD ROAD, WHICH BEARS N89°53'00"W, PER "BACON HOMESITES" SUBDIVISION PLAT.

2. () DENOTES BEARING PER PLAT.

CURVE DATA

①
RAD. = 1200.00'
DELTA = 3°30'58"
L.C. = 73.63'
L.C.B. = 388°21'31"W



SCALE 1" = 40'

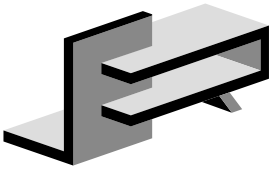
SURVEY CERTIFICATE

I have surveyed the above described property and the above map is a true representation thereof and shows the size and location of the property, its exterior boundaries, the location and dimensions of all visible structures thereon, boundary fences, apparent easements, roadway, and visible encroachments, if any.

This survey is made for the exclusive use of the present owners of the property, and also those who purchase mortgage, or guarantee the title thereto within one (1) year from date hereof.

Dated at City of Mequon, State of Wisconsin this 11th day of October, 2023

Recertified _____ Surveyor _____



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PROJECT INFO / LOCATION:

The Speaker Martin
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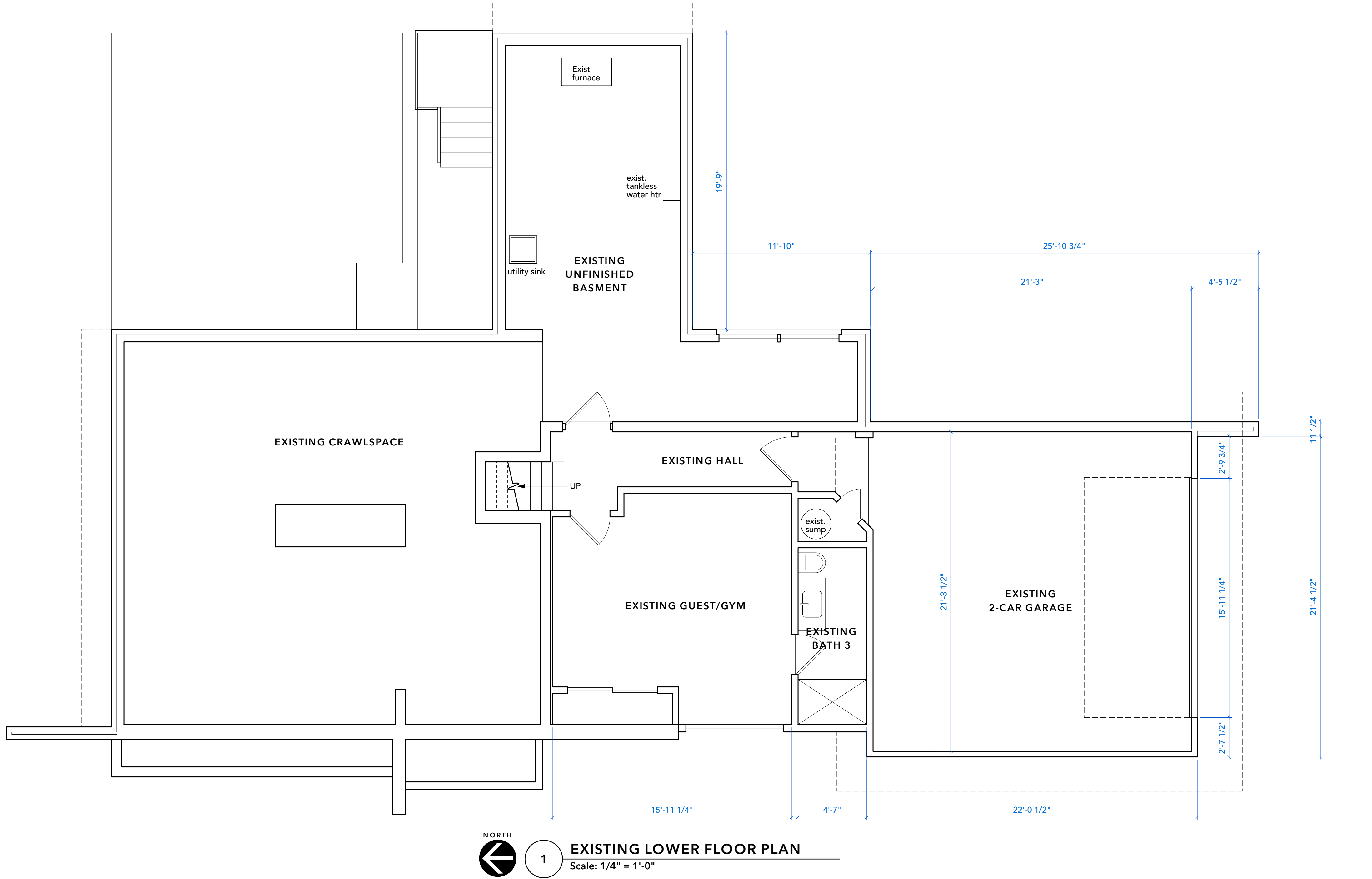
7938 N. Regent Road, Fox Point, WI 53217

DATE:
4/25/2024

REVISIONS:
1
2

SHEET TITLE:
Existing Lower
Plan

SHEET: 36X24
A1.0





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[illegible]

The Speaker Martin Garage Addition

1938 N. Regent Road, Fox Point, WI 53217

DATE: 4/25/2024

REVISIONS:

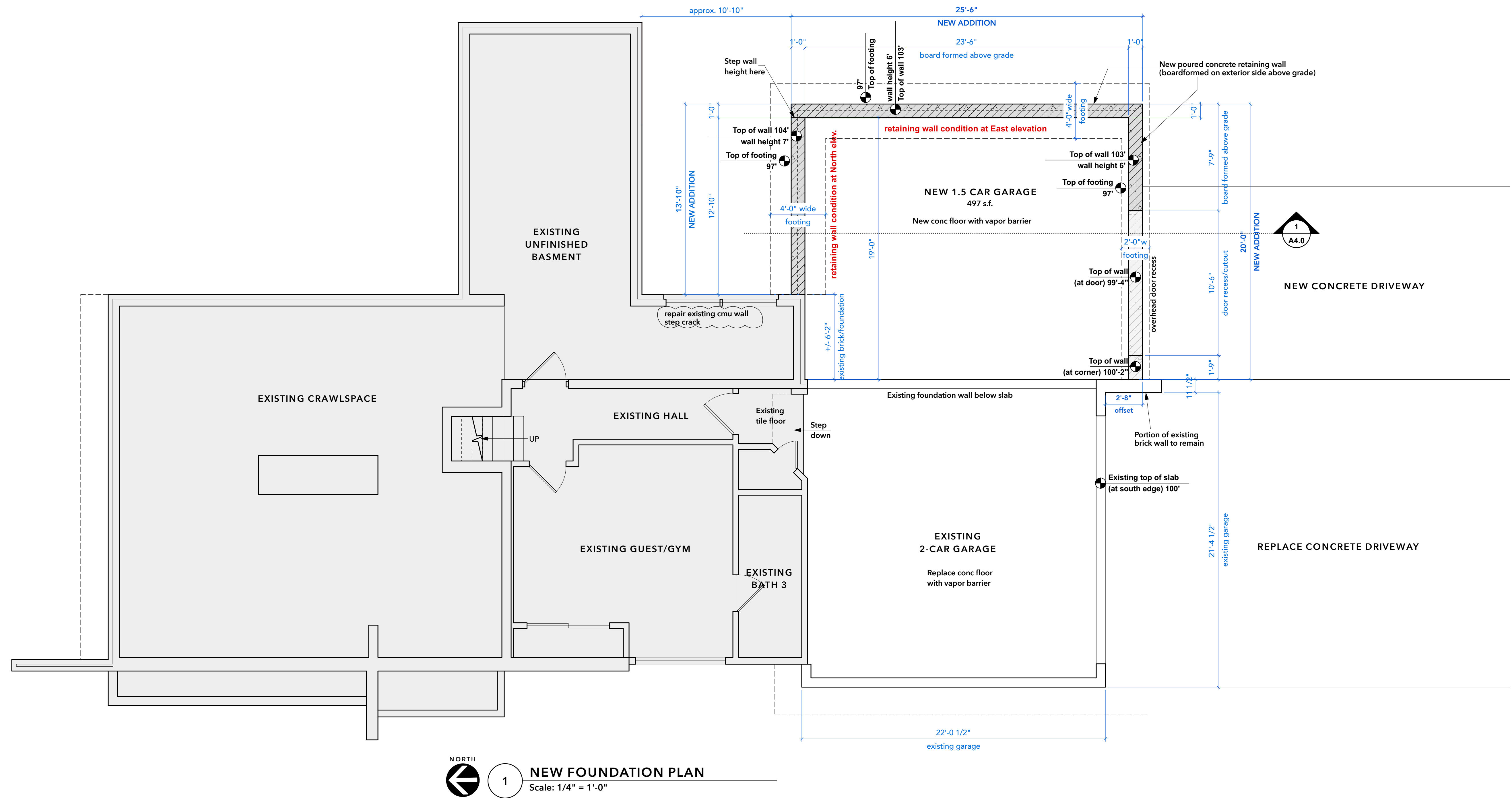


HEET TITLE:

New
Foundation
Plan

HEET: 36X24

A1.1





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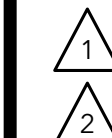
PROJECT INFO / LOCATION:

The Speaker Martin Garage Addition

7938 N. Regent Road, Fox Point, WI 53217

DATE:
4/25/2024

REVISIONS:



SHEET TITLE:

New Framing Plan

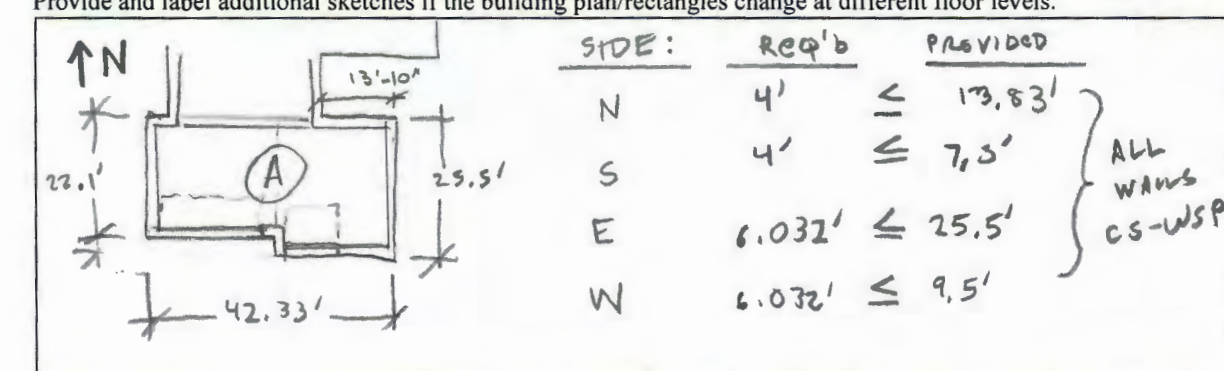
SHEET: 36X24

A1.2

Wall Bracing Compliance Worksheet

Wall Bracing Compliance Worksheet
Complete this worksheet or provide equivalent information on the plans submitted with the permit application.

Sketch and dimension the building plan and the wall bracing rectangle(s) per 321.25(8)(c)1. and Figure 321.25-B. Provide and label additional sketches if the building plan/rectangles change at different floor levels.



Indicate applicable Wall Bracing Method for each level (see Table 321.25-G), each labeled rectangle if more than one [see 321.25(8)(c)], and amount of bracing (# of braced panels or length of braced wall required) per the respective table (provide additional worksheets for additional rectangles as needed):

Rectangle: A		Wall Ht. = 12.5		Eave to Ridge Ht. = 7		Max. Opening Ht. = 7		Wind Exp. = B	
Walls Supporting: <i>Roof & Ceiling</i>		Continuous Method (LIB, DWB, WSP, SFB, GB, PCP) and # of panels per Table 321.25-1		Continuous method (CS-WSP, CS-SFB) and total length required per Table 321.25-1		PF Method (see Figure 321.25-A). Indicate number of PF panels 16'-24" wide provided.			
		Min. panel width (Table 321.25-G) =		Min. panel width (Table 321.25-I) = 32'		Min. PF width (Fig. 321.25-A) =			
		Long side		Short side		Long side		Short side	
Roof and ceiling only		25.6 → 32.25 x 9.5		22.4 → 6.032'		25.6 x 6.35		32.25 x 4.2	
One floor, roof and ceiling				PF					
Two floors, roof and ceiling									

Rectangle: _____	Wall Ht. _____	Eave to Ridge Ht. _____	Max. Opening Ht. _____	Wind Exp. _____
Walls Supporting:	Intermittent method (L/B, DWB, WSP, SFB, GB, PCP) and # of panels per Table 321.25-1	Continuous method (CS-WSP, CS-SFB) and total length required per Table 321.25-1	Wind Exp. method (See Figure 321.25-A). Indicate number of PF panels 16'-24" wide provided.	
	Min. panel width (Table 321.25-G)	Min. panel width (Table 321.25-H)	Min. PF width (Figure 321.25-A)	
	Long side	Short side	Long side	Short side
Roof and ceiling only				
One floor, roof and ceiling				
Two floors, roof and ceiling				

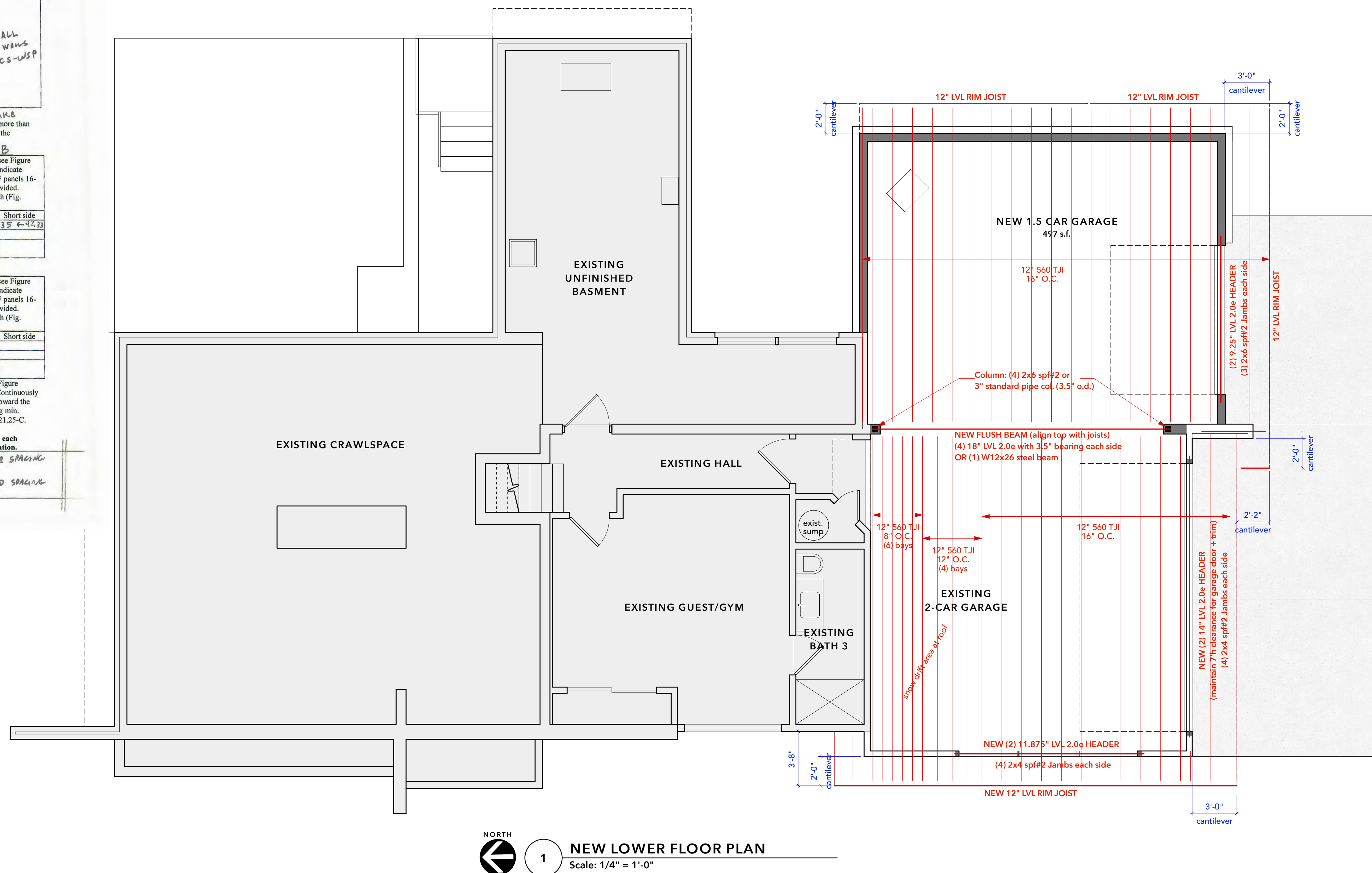
PF Method: For Intermittent bracing, per Table 321.25-I footnote 'h', each PF panel (16-24" wide per Figure 321.25-A) counts as ½ of a braced wall panel when determining compliance with Table 321.25-I. For Continuously Sheathed bracing, the actual length of each PF panel (16-24" wide per Figure 321.25-A) in feet counts toward the required total length of bracing required. For intermittent or continuous methods, each PF panel meeting min. required width of Figure 321.25-A counts as a braced wall panel when evaluating panel spacing per Figure 321.25-C.

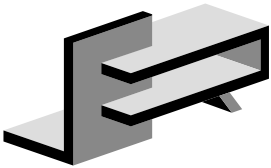
Indicate the location and construction details of required braced wall panels determined above on each rectangle side as required by Figure 321.25-C on the floor plans submitted with the permit application.

rectangle side as required by Figure 321.25-C on the floor plans submitted with the permit application.

CS-WSP- $\frac{1}{2}$ OSB w/ 4d COMMON 6" MAX EDGE SPACING
 or 8d BOX NAILS
 (23 1/8" x 0.113" d) 12" MAX FIELD SPACING

WALL BRACING SPECS





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PROJECT INFO / LOCATION:

The Speaker Martin
Garage Addition

7938 N. Regent Road, Fox Point, WI 53217

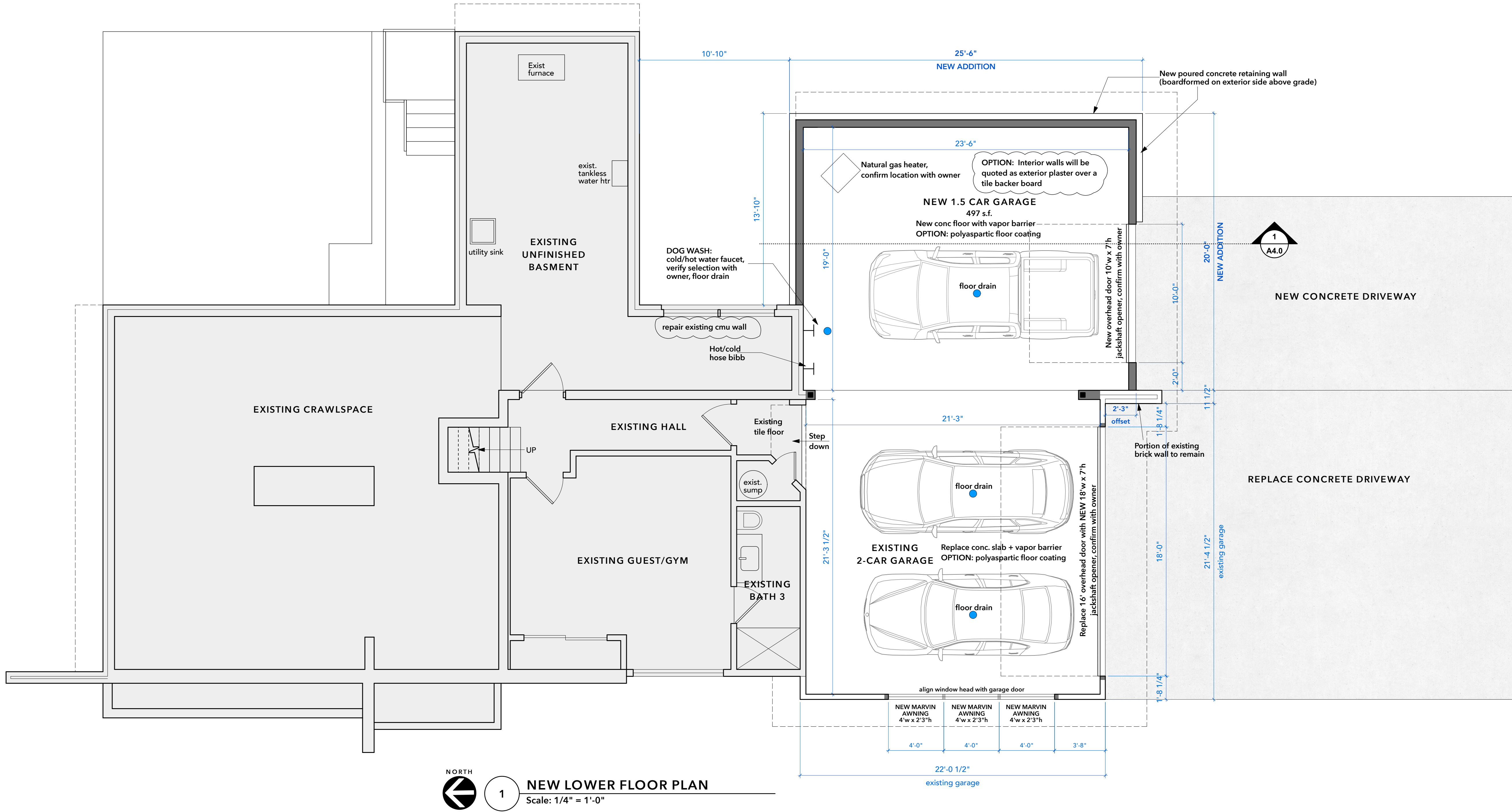
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4/25/2024

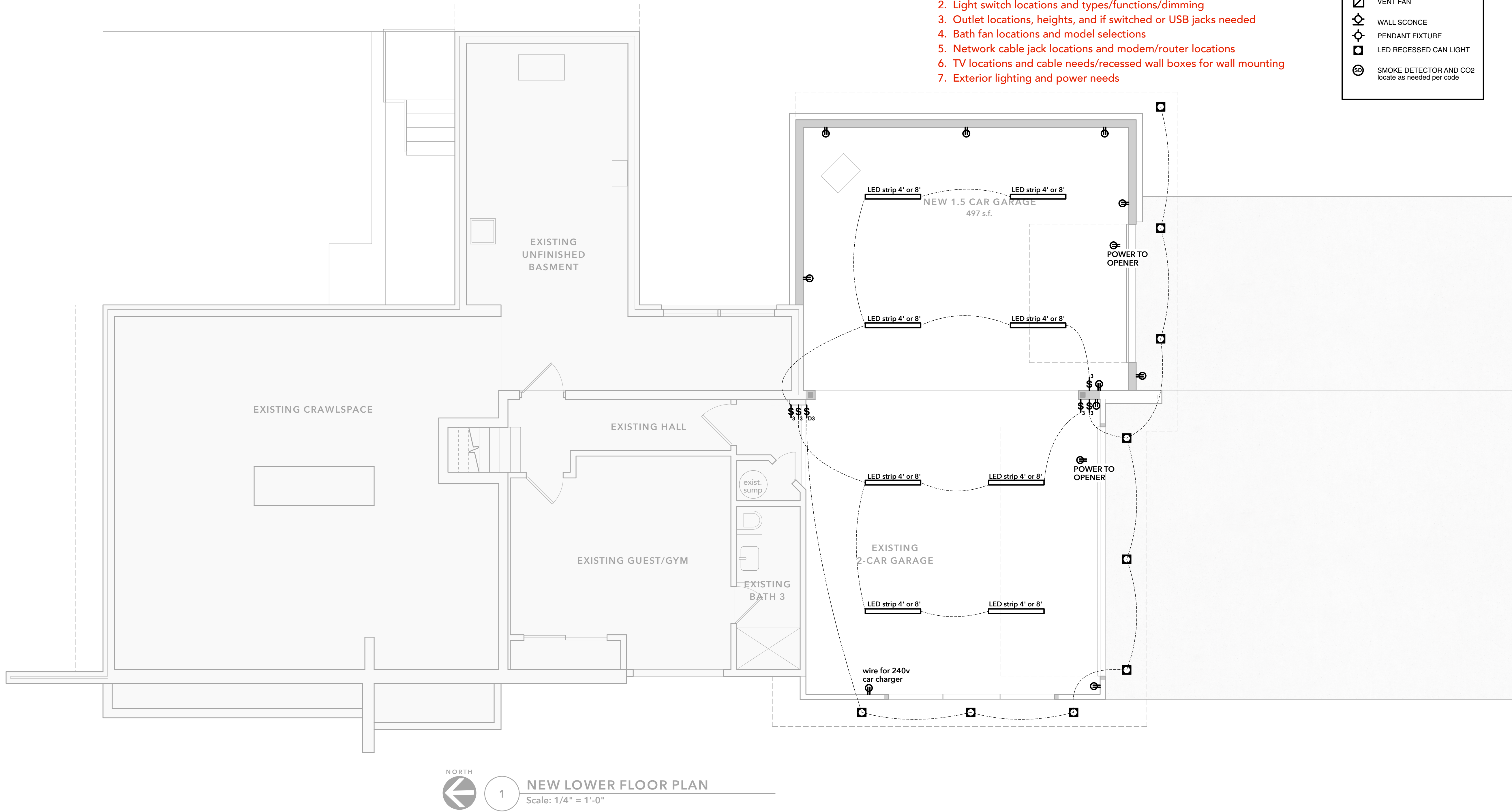
REVISIONS:
1
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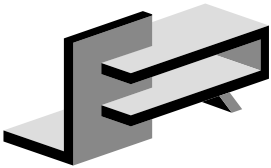
SHEET TITLE:
New Lower
Plan

SHEET: 36X24

A1.3







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PROJECT INFO / LOCATION:

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Garage Addition
7938 N. Regent Road, Fox Point, WI 53217

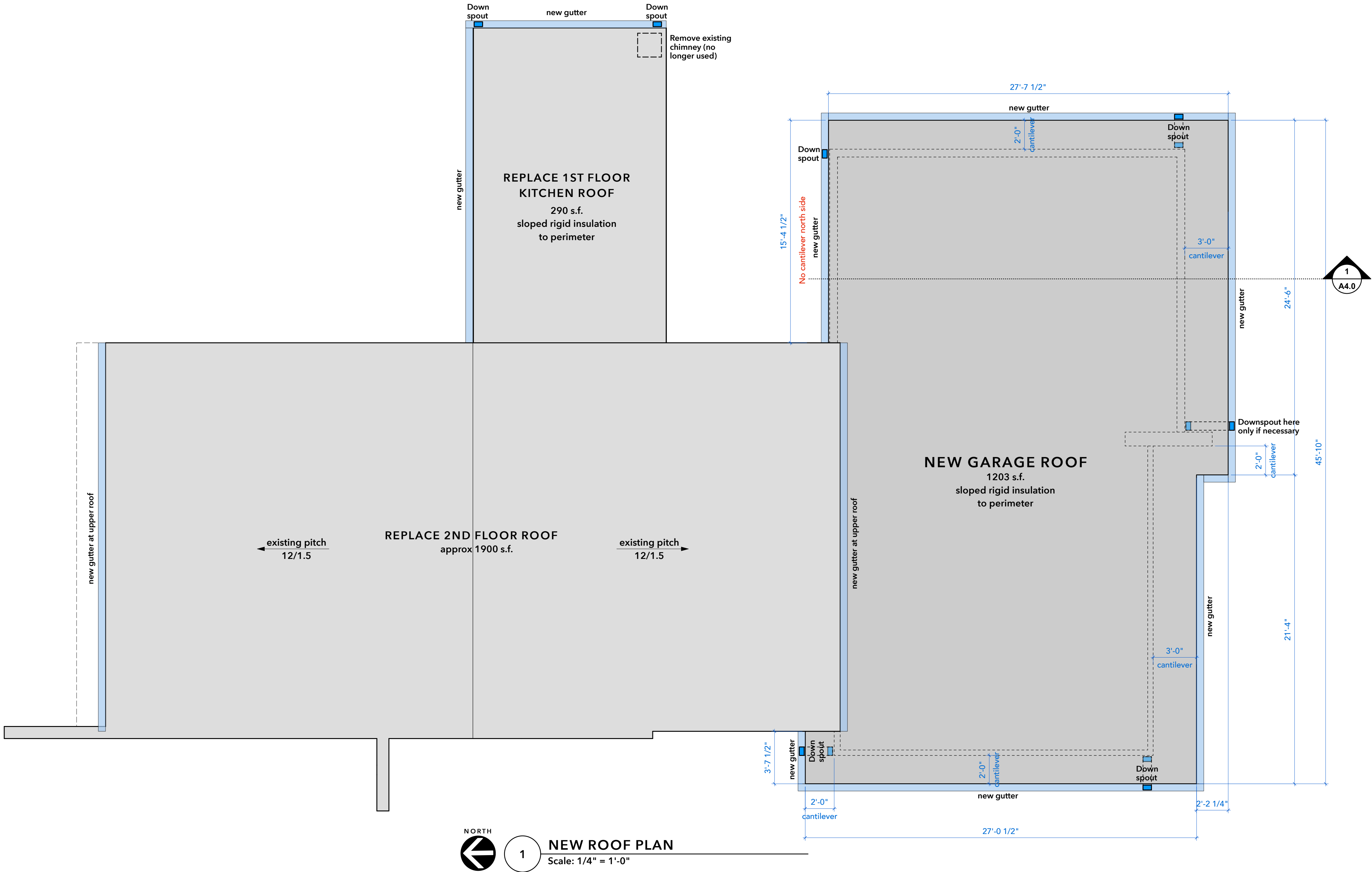
DATE:
4/25/2024

REVISIONS:
1
2

SHEET TITLE:
New Roof Plan

SHEET: 36X24

A1.5





EXISTING FRONT - WEST facing Regent



EXISTING SIDE - SOUTH facing Fairchild



EXISTING SIDE - SOUTH facing Fairchild



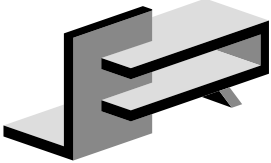
EXISTING BACK - EAST



EXISTING BACK - EAST



EXISTING SIDE - NORTH



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**The Speaker Martin
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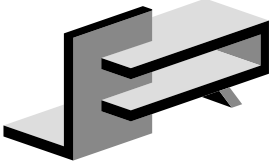
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DATE:
4/25/2024

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SHEET TITLE:
Existing
Photos

SHEET: 36X24
A2.0



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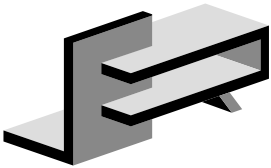
DATE:
4/25/2024

REVISIONS:
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SHEET TITLE:
New
Renderings

SHEET: 36X24

A2.1



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1 NEW WEST ELEVATION - FRONT facing Regent
Scale: 1/4" = 1'



2 NEW SOUTH ELEVATION - SIDE facing Fairchild
Scale: 1/4" = 1'

PROJECT INFO / LOCATION:

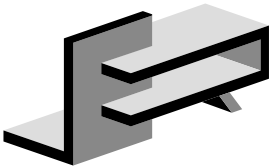
The Speaker Martin
Garage Addition
7938 N. Regent Road, Fox Point, WI 53217

DATE:
4/25/2024

REVISIONS:
1
2

SHEET TITLE:
New Exterior
Elevations

SHEET: 36X24
A3.0



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PROJECT INFO / LOCATION:

The Speaker Martin
Garage Addition

7938 N. Regent Road, Fox Point, WI 53217

DATE:
4/25/2024

REVISIONS:
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SHEET TITLE:
New Exterior
Elevations

SHEET: 36X24

A3.1



3 NEW EAST ELEVATION - BACK
Scale: 1/4" = 1'



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blodgetteng@wi.rr.com
(262) 293-9923

GENERAL CONTRACTOR
JOHN SAUERMILCH, JR.
1717 Cambridge Avenue
Sheboygan, WI 53081
(920) 458-5722
info@johnsauermilch.com

PROJECT INFO / LOCATION:

The Speaker Martin Garage Addition

7938 N. Regent Road, Fox Point, WI 53217

DATE:
4/25/2024

REVISIONS:

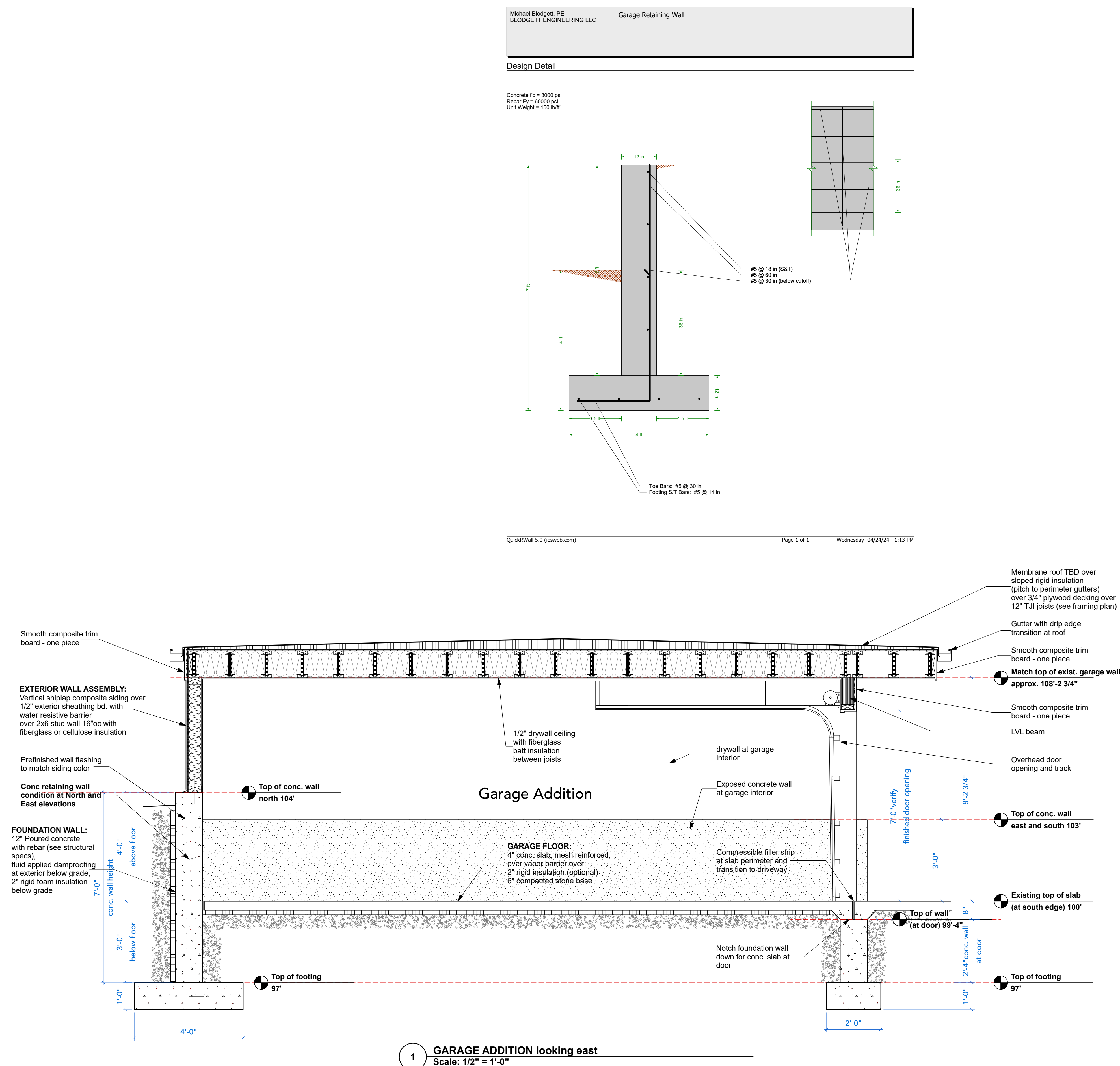


SHEET TITLE:

Garage
Addition
Section

SHEET: 36X24

A4.0



April 24, 2024

**The Speaker Martin Garage Addition
7938 North Regent Road
Fox Point, WI 53217**

**STRUCTURAL CALCULATIONS FOR
Garage Addition**

Provided for:

RACINOWSKI DESIGN STUDIO

Best Architect Milwaukee, Shepherd Express 2017
414-587-0595 / Website / Facebook / Instagram

Prepared by:

BLODGETT

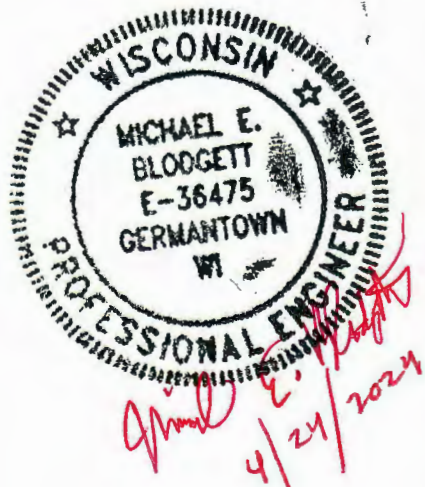
Engineering, LLC

WI 69 N10815 Redwood Lane

Germantown, WI 53022

262-293-9923

blodgetteng@wi.rr.com



BLODGETT ENGINEERING LLC
STRUCTURAL CONSULTING ENGINEERS

W169 N10815 Redwood Lane
Germantown, WI 53022

blodgetteng@wi.rr.com
Tel/Fax: 262.293.9923

JOB RACINOWSKI - SPEAKER

SHEET NO. _____ OF _____

CALCULATED BY MEB DATE 4/24/24

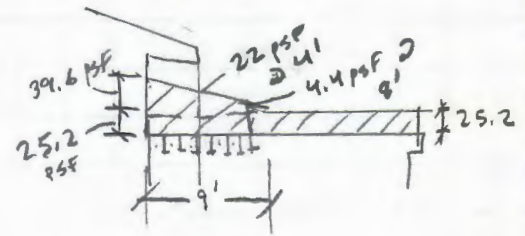
LOADS: FOX POINT, WI

$$S_L = 30 \text{ psf}$$

$$D_L = 20 \text{ psf}$$

$$R_{LL} = 20 \text{ psf}$$

SNOW DRIFT LOAD CASE



USE: TJI 560 - 11.875" @ 8" o/c FIRST 6 BAYS $\Delta = 0.502"$

TJI 560 - 11.875" @ 12" o/c NEXT 4 BAYS $\Delta = 0.59"$

TJI 560 - 11.875" @ 16" o/c REST OF ROOF $\Delta = 0.586"$
(PROVIDE RFPI 80S OR RFPI 90 AS ALTERNATES)

* ADD INSULATION TO MAKE SURE ROOF DRAINING PROPERLY
W/ UP TO 0.6" DEFLECTION AT MIDDLE OF SPANS

CENTRAL BEAM:

$$W_D = 20 \times \frac{42}{2} = 420 \text{ pf}$$

$$W_S = 30 \times \frac{42}{2} = 630 \text{ pf}$$

$$W_{S \text{ DRIFT}} = 39.6 \times \frac{42}{2} = 831.6$$

STEEL OPTION

USE: W12x26 - 50KSI

$$\Delta = 0.696"$$

- OR -

LVL OPTIONS

(3) 18" LVL (2.0E)

$$\Delta = 0.805" \text{ (5" BEARING)}$$

(4) 18" LVL (2.0E)

$$\Delta = 0.608" \text{ (3.5" BEARING)}$$

Snow Loads : ASCE 7-10

Nominal Snow Forces

Roof slope	=	7.1 deg
Horiz. eave to ridge dist (W)	=	40.0 ft
Roof length parallel to ridge (L)	=	81.0 ft
Type of Roof		Monoslope
Ground Snow Load	Pg =	30.0 psf
Risk Category	=	II
Importance Factor	I =	1.0
Thermal Factor	Ct =	1.20
Exposure Factor	Ce =	1.0
Pf = 0.7*Ce*Ct*I*Pg	=	25.2 psf
Unobstructed Slippery Surface		no
Sloped-roof Factor	Cs =	1.00
Balanced Snow Load	=	25.2 psf
Rain on Snow Surcharge Angle		0.80 deg
Code Maximum Rain Surcharge		5.0 psf
Rain on Snow Surcharge	=	0.0 psf
Ps plus rain surcharge	=	25.2 psf
Minimum Snow Load	Pm =	20.0 psf
Uniform Roof Design Snow Load	=	25.2 psf

Near ground level surface balanced snow load = **30.0 psf**

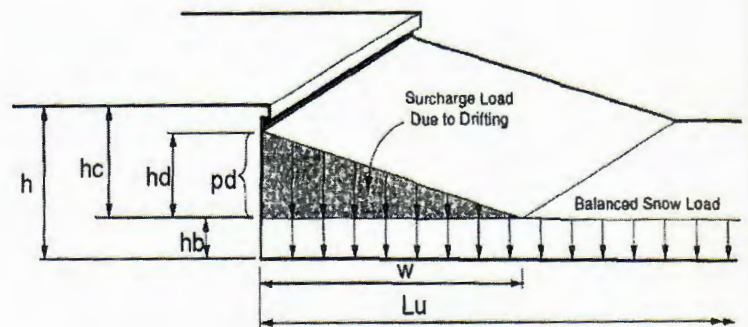
NOTE: Alternate spans of continuous beams shall be loaded with half the design roof snow load so as to produce the greatest possible effect - see code for loading diagrams and exceptions for gable roofs..

Windward Snow Drifts 1 - Against walls, parapets, etc

Upwind fetch	lu =	27.0 ft
Projection height	h =	9.7 ft
Snow density	g =	17.9 pcf
Balanced snow height	hb =	1.41 ft
	hd =	1.31 ft
	hc =	8.26 ft
hc/hb > 0.2 = 5.9		
Therefore, design for drift		
Drift height (hd)	=	1.31 ft
Drift width	w =	5.23 ft
Surcharge load:	pd = $\gamma \cdot hd$ =	23.4 psf
Balanced Snow load:	=	25.2 psf
		48.6 psf

Windward Snow Drifts 2 - Against walls, parapets, etc

Upwind fetch	lu =	27.0 ft
Projection height	h =	9.7 ft
Snow density	g =	17.9 pcf
Balanced snow height	hb =	1.41 ft
	hd =	1.31 ft
	hc =	8.29 ft
hc/hb > 0.2 = 5.9		
Therefore, design for drift		
Drift height (hd)	=	1.31 ft
Drift width	w =	5.23 ft
Surcharge load:	pd = $\gamma \cdot hd$ =	23.4 psf
Balanced Snow load:	=	25.2 psf
		48.6 psf



Blodgett Engineering, LLC

W169 N10815 Redwood Lane

Germantown, WI 53022

262-293-9923

JOB TITLE Speaker - Fox Point

JOB NO. _____

SHEET NO. _____

CALCULATED BY MEBDATE 4/24/24CHECKED BY MEBDATE 4/24/24**Snow Loads - from adjacent building or roof:**

ASCE 7-10

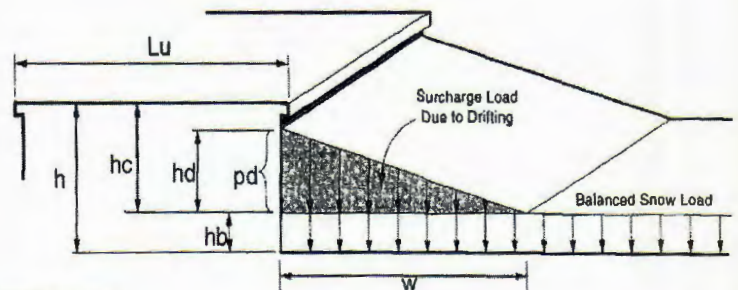
Nominal Snow Forces

		<u>Higher Roof</u>	<u>Lower Roof</u>
Roof slope	=	7.1 deg	0.25 / 12 = 1.2 deg
Horiz. eave to ridge dist (W)	=	40.0 ft	23.5 ft
Roof length parallel to ridge (L)	=	81.0 ft	21.0 ft
Projection height (roof step) h	=		9.7 ft
Building separation s	=		0.0 ft
Type of Roof		Monoslope	Monoslope
Ground Snow Load	Pg =	30.0 psf	30.0 psf
Risk Category	=	II	II
Importance Factor	I =	1.0	1.0
Thermal Factor	Ct =	1.00	1.20
Exposure Factor	Ce =	1.0	1.0
Pf = 0.7 * Ce * Ct * I * Pg	=	21.0 psf	25.2 psf
Unobstructed Slippery Surface		no	no
Sloped-roof Factor	Cs =	1.00	1.00
Balanced Snow Load	Ps =	21.0 psf	25.2 psf
Rain on Snow Surcharge Angle		0.80 deg	0.47 deg
Code Maximum Rain Surcharge		5.0 psf	5.0 psf
Rain on Snow Surcharge	=	0.0 psf	0.0 psf
Ps plus rain surcharge	=	21.0 psf	25.2 psf
Minimum Snow Load	Pm =	20.0 psf	20.0 psf
Uniform Roof Design Snow Load	=	21.0 psf	25.2 psf
Building Official Minimum	=		

NOTE: Alternate spans of continuous beams and other areas shall be loaded with half the design roof snow load so as to produce the greatest possible effect - see code.

Leeward Snow Drifts - from adjacent higher roof

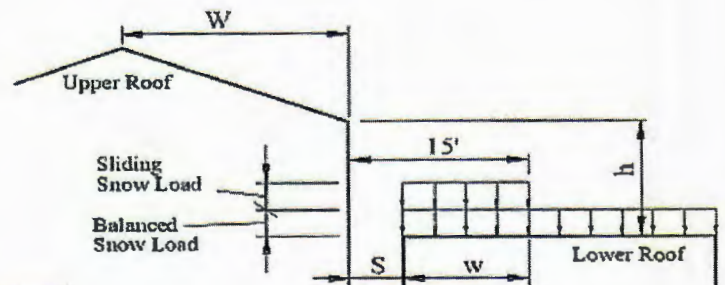
Upper roof length	lu =	40.5 ft
Snow density	γ =	17.9 pcf
Balanced snow height	hb =	1.41 ft
	hc =	8.26 ft
Therefore, design for drift		
Adj structure factor	=	1.00
Drift height (hd)	=	2.21 ft
Drift width	w =	8.85 ft
Surcharge load:	pd = $\gamma \cdot hd$ =	39.6 psf
Balanced Snow load:	=	25.2 psf
		64.8 psf Leeward drift controls

**Windward Snow Drifts - from low roof against high roof**

Lower roof length	lu =	27.0 ft
Adj structure factor	=	1.00
Drift height	hd =	1.31 ft
Drift width	w =	5.23 ft
Surcharge load:	pd = $\gamma \cdot hd$ =	23.4 psf
Balanced Snow load:	=	25.2 psf
		48.6 psf

Sliding Snow - onto lower roof

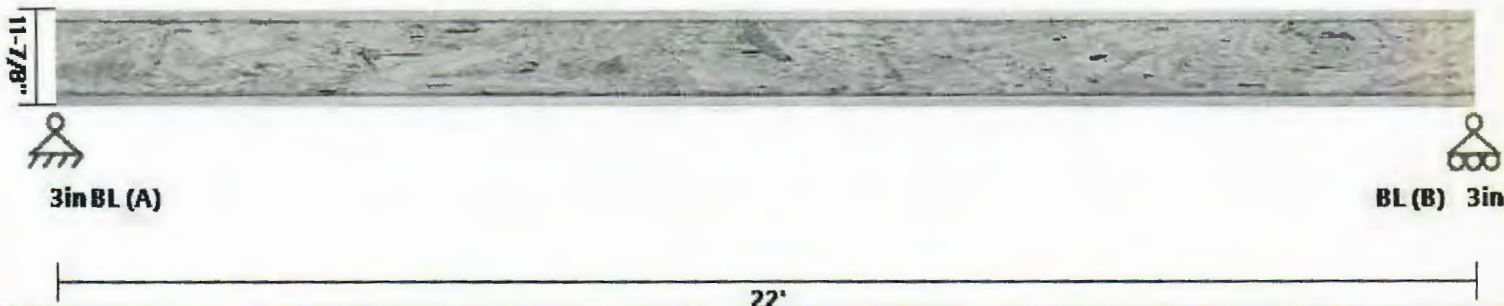
Sliding snow = 0.4 Pf W	=	0.0 plf
Distributed over 15 feet =		0.0 psf
hd + hb =		1.41 ft
hd + hb < h therefore sliding snow =		0.0 psf
Balanced snow load =		25.2 psf
Uniform snow load =		25.2 psf



Not required since upper roof slope is 2 in 12 or less and non-slippery roof

DATE:	4/24/2024	COMPANY:	Blodgett Engineering		
STRUCALC BUILD:	StruCalc Pro	DESIGNED BY:			
CUSTOMER:	Racinowski	REVIEWED BY:	--		
PROJ. ADDRESS:	--	PROJECT NAME:	Speaker - Fox Point		
	--				
LEVEL:	Roof	LOADING:	ASD		
MEMBER NAME:	Roof Joist - Drift 1	CODE:	2015 International Building Code		
MEMBER TYPE:	FLOOR JOIST	NDS:	2015 NDS		
MATERIAL:	I-Joists				
Weyerhaeuser	TJI 560	(1) 11.875	8(in) O.C.	DRY	

Roof Joist - Drift 1 DIAGRAM



BEAM PROPERTIES

Start (ft): 0	End (ft): 22	Member Slope: 0/12	Actual Length (ft): 22	O.C. Spacing(in): 8									
					End Rcap	End Rcap	End Rcap	End Rcap	Int Rcap	Int Rcap	Int Rcap	Int Rcap	
El x10 ⁶	BSW	Lams	K x10 ⁶	Mcap	Vcap	1.75 NS	3.5 NS	1.75 WS	3.5 WS	3.5 NS	5.25 NS	3.5 WS	5.25 WS
(lbf-in ²)	(lbf/ft)		(lbf)	(lbf-ft)	(lbf)	(lbf)	(lbf)	(lbf)	(lbf)	(lbf)	(lbf)	(lbf)	(lbf)
636	4	1	5.3	9500	2050	1265	1725	1740	2050	3000	3455	3475	3930

BEAM DATA

Span	Length (ft)	Unbraced Length (ft)		Beam End
		Top	Bottom	Elev. Diff (ft)
1	22	0	22	0

PASS-FAIL

	PASS/FAIL	MAGNITUDE	STRENGTH	LOCATION (ft)	LOAD COMBO	DURATION FACTOR CD
Shear Force (lbf)	PASS (71.8%)	665.9	2357.5	0	D+S	1.15
Bending Moment (lbf-ft)	PASS (66.5%)	3662.3	10925.0	11	D+S	1.15
Deflection Y (in)	PASS (54.4%)	0.502 (=L/526)	1.100 (=L/240)	11	D+S	1.15
Bearing Load (lbf)	PASS (63.7%)	665.9	1832.6	0	D+S	1.15

REACTIONS

Units for V: lbf Units for M: lbf-ft

Y axis	DEAD	SNOW	TOTAL
A	191	475	666
B	191	475	666

Reaction Location WS-Web Stiffener Required NSR-No Stiffener Required

A

B

NSR

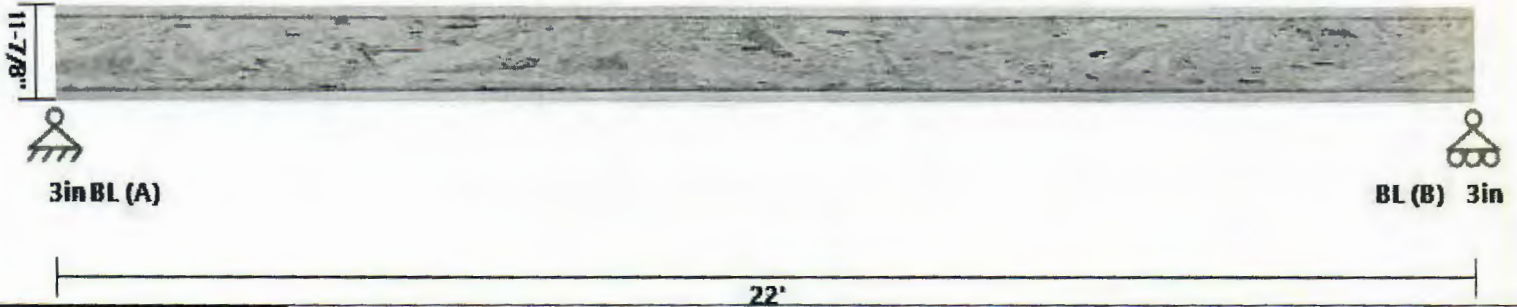
NSR

LOAD LIST

Type	Name	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Uniform (lbf/ft ²)	Uniform	25.2	25.2	0	22	Snow	Y
Uniform (lbf/ft ²)	Uniform	20	20	0	22	Dead	Y
Uniform (lbf/ft ²)	Uniform	39.6	39.6	0	22	Snow	Y
Self Weight (lbf/ft)	-	4	4	0	22	Dead	Y

DATE:	4/24/2024	COMPANY:	Blodgett Engineering			
STRUCALC BUILD:	StruCalc Pro	DESIGNED BY:				
CUSTOMER:	Racinowski	REVIEWED BY:	--			
PROJ. ADDRESS:	--	PROJECT NAME:	Speaker - Fox Point			
	--					
LEVEL:	Roof	LOADING:	ASD			
MEMBER NAME:	Roof Joist - Drift 2	CODE:	2015 International Building Code			
MEMBER TYPE:	FLOOR JOIST	NDS:	2015 NDS			
MATERIAL:	I-Joists					
Weyerhaeuser	TJI 560	(1) 11.875	12(in) O.C.	DRY		

Roof Joist - Drift 2 DIAGRAM



BEAM PROPERTIES

Start (ft): 0	End (ft): 22	Member Slope: 0/12	Actual Length (ft): 22	O.C. Spacing(in): 12									
El x10 ⁶	BSW	Lams	K x10 ⁶	Mcap	Vcap	End Rcap	End Rcap	End Rcap	End Rcap	Int Rcap	Int Rcap	Int Rcap	Int Rcap
(lbf-in ²)	(lbf/ft)		(lbf)	(lbf-ft)	(lbf)	(lbf)	(lbf)	(lbf)	(lbf)	(lbf)	(lbf)	(lbf)	(lbf)
636	4	1	5.3	9500	2050	1265	1725	1740	2050	3000	3455	3475	3930

BEAM DATA

Span	Length (ft)	Unbraced Length (ft)		Beam End
		Top	Bottom	Elev. Diff (ft)
1	22	0	22	0

PASS-FAIL

	PASS/FAIL	MAGNITUDE	STRENGTH	LOCATION (ft)	LOAD COMBO	DURATION FACTOR CD
Shear Force (lbf)	PASS (66.8%)	783.2	2357.5	0	D+S	1.15
Bending Moment (lbf-ft)	PASS (60.6%)	4307.6	10925.0	11	D+S	1.15
Deflection Y (in)	PASS (46.4%)	0.590 (=L/447)	1.100 (=L/240)	11	D+S	1.15
Bearing Load (lbf)	PASS (57.3%)	783.2	1832.6	0	D+S	1.15

REACTIONS

Y axis	DEAD	SNOW	TOTAL
A	264	519	783
B	264	519	783

Reaction Location WS-Web Stiffener Required NSR-No Stiffener Required

A B

NSR NSR

LOAD LIST

Type	Name	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Uniform (lbf/ft ²)	Uniform	25.2	25.2	0	22	Snow	Y
Uniform (lbf/ft ²)	Uniform	20	20	0	22	Dead	Y
Uniform (lbf/ft ²)	Uniform	22	22	0	22	Snow	Y
Self Weight (lbf/ft)	-	4	4	0	22	Dead	Y

DATE:	4/24/2024	COMPANY:	Blodgett Engineering		
STRUCALC BUILD:	StruCalc Pro	DESIGNED BY:			
CUSTOMER:	Racinowski	REVIEWED BY:	--		
PROJ. ADDRESS:	--	PROJECT NAME:	Speaker - Fox Point		
	--				
LEVEL:	Roof	LOADING:	ASD		
MEMBER NAME:	Roof Joist - Non-Drift	CODE:	2015 International Building Code		
MEMBER TYPE:	FLOOR JOIST	NDS:	2015 NDS		
MATERIAL:	I-Joists				
Weyerhaeuser	TJI 560	(1) 11.875	16(in) O.C.	DRY	

Roof Joist - Non-Drift DIAGRAM



BEAM PROPERTIES

Start (ft): 0	End (ft): 22	Member Slope: 0/12	Actual Length (ft): 22	O.C. Spacing(in): 16									
El x10 ⁶	BSW	Lams	K x10 ⁶	Mcap	Vcap	End Rcap	End Rcap	End Rcap	End Rcap	Int Rcap	Int Rcap	Int Rcap	Int Rcap
(lbf-in ²)	(lbf/ft)		(lbf)	(lbf-ft)	(lbf)	(lbf)	(lbf)	(lbf)	(lbf)	(lbf)	(lbf)	(lbf)	(lbf)
636	4	1	5.3	9500	2050	1.75 NS	3.5 NS	1.75 WS	3.5 WS	3.5 NS	5.25 NS	3.5 WS	5.25 WS
						1265	1725	1740	2050	3000	3455	3475	3930

BEAM DATA

Span	Length (ft)	Unbraced Length (ft)	Beam End
		Top	Bottom
1	22	0	22
			Elev. Diff (ft)
			0

PASS-FAIL

	PASS/FAIL	MAGNITUDE	STRENGTH	LOCATION (ft)	LOAD COMBO	DURATION FACTOR CD
Shear Force (lbf)	PASS (67.0%)	777.3	2357.5	0	D+S	1.15
Bending Moment (lbf-ft)	PASS (60.9%)	4275.3	10925.0	11	D+S	1.15
Deflection Y (in)	PASS (46.8%)	0.586 (=L/451)	1.100 (=L/240)	11	D+S	1.15
Bearing Load (lbf)	PASS (57.6%)	777.3	1832.6	0	D+S	1.15

REACTIONS

Y axis	DEAD	SNOW	TOTAL
A	337	440	777
B	337	440	777

Reaction Location WS-Web Stiffener Required NSR-No Stiffener Required

A

NSR

B

NSR

LOAD LIST

Type	Name	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Uniform (lbf/ft ²)	Uniform	30	30	0	22	Snow	Y
Uniform (lbf/ft ²)	Uniform	20	20	0	22	Dead	Y
Self Weight (lbf/ft)	-	4	4	0	22	Dead	Y

DATE:	4/24/2024	COMPANY:	Blodgett Engineering
STRUCALC BUILD:	StruCalc Pro	DESIGNED BY:	
CUSTOMER:	Racinowski	REVIEWED BY:	--
PROJ. ADDRESS:	--	PROJECT NAME:	Speaker - Fox Point
LEVEL:	Roof	LOADING:	ASD
MEMBER NAME:	Central Beam	CODE:	2015 International Building Code
MEMBER TYPE:	FLOOR BEAM	AISC:	AISC 360-10
MATERIAL:	Steel		
W Shapes	W12x26	A529-50	

Central Beam DIAGRAM



BEAM PROPERTIES

Start (ft): 0 End (ft): 19.75 Member Slope: 0/12 Actual Length (ft): 19.75

Es x10 ³	Fy x10 ³	Fu x10 ³	Area	depth	tw	tf	bf	Ix	Iy	Zx	Zy	J	Cw
(psi)	(psi)	(psi)	(in ²)	(in)	(in)	(in)	(in)	(in ⁴)	(in ⁴)	(in ³)	(in ³)	(in ⁴)	(in ⁶)
29000	50	65	7.65	12.2	0.23	0.38	6.49	204	17.3	37.2	8.17	0.3	607

DESIGN PROPERTIES

Lp	Lr	Flange	Web	Flange	Web		
(in)	(in)	Flexure	Flexure	Compression	Compression	Cv	Cv_WA
64	179	Compact	Compact	Non-Slender	Slender	1	1

BEAM DATA

Span	Length	Unbraced Length		Beam End		Pnt/и	Pnc/и	Mn/и	Mn-OOP/и	Vn/и	Vn-OOP/и	Cb	Cb-OOP
		Top	Bottom	Elev. Diff									
1	19.75	0	19.75	0		0	0	92.81	20.38	56.12	73.99	1.129	1

PASS-FAIL

	PASS/FAIL	MAGNITUDE	STRENGTH	LOCATION (ft)	AISC CODE	LOAD COMBO
Shear Force Y (lbf)	PASS (75.4%)	13799.3	56120.0	0	G2-1	D+S
Moment Y (lbf-ft)	PASS (37.3%)	58224.7	92814.4	9.283	F2-1	D+S
Deflection Y (in)	PASS (29.5%)	0.696 (=L/341)	0.988 (=L/240)	9.677		D+S

REACTIONS

Units for V: lbf Units for M: lbf-ft

Y axis	DEAD	SNOW	TOTAL
A	4404	9395	13799
B	4404	6790	11194

Reaction Location

A

B

LOAD LIST

Type	Name	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Uniform (lbf/ft)	Uniform	630	630	0	19.75	Snow	Y
Uniform (lbf/ft)	Uniform	420	420	0	19.75	Dead	Y
Trapezoidal (lbf/ft)	Trapezoidal	831.6	0	0	9	Snow	Y
Self Weight (lbf/ft)	-	26	26	0	19.75	Dead	Y

DATE:	4/24/2024	COMPANY:	Blodgett Engineering
STRUCALC BUILD:	StruCalc Pro	DESIGNED BY:	
CUSTOMER:	Racinowski	REVIEWED BY:	--
PROJ. ADDRESS:	--	PROJECT NAME:	Speaker - Fox Point
LEVEL:	Roof	LOADING:	ASD
MEMBER NAME:	Central Beam - Wood	CODE:	2015 International Building Code
MEMBER TYPE:	FLOOR BEAM	NDS:	2015 NDS
MATERIAL:	Structural Composite Lumber		
Global LVL	2.0E 3300Fb LVL	(4) 1.75 X 18	DRY

BEAM PROPERTIES

Start (ft): 0 End (ft): 19.75 Member Slope: 0/12 Actual Length (ft): 19.75

Area	Ix	Iy	BSW	Lams	Cfn	Kcr
(in ²)	(in ⁴)	(in ⁴)	(lb/ft)			Creep Factor
126	3402	32.16	29.75	4	6.67	1

STRENGTH PROPERTIES

	Fb (psi)	Ft (psi)	Fv (psi)	Fc (psi)	Fc⊥ (psi)	E (psi) x10 ³	Emin (psi) x10 ³
Base Values	3300	2700	290	2700	575	2000	984.984
Adjusted Values	3300	2700	290	2700	575	2000	985
C _M	1	1	1	1	1	1	1
C _T	1	1	1	1	1	1	1

Bending Adjustment Factors C_V = 0.94C_r = 1 Volume factor is applied on a load combination basis And is Not reflected in the adjusted values

BEAM DATA

Span	Length (ft)	Unbraced Length (ft)		Beam End				
		Top	Bottom	Elev. Diff (ft)	CL(Top)	CL(Bottom)	CL(Left)	CL(Right)
1	19.75	0	19.75	0	1.00	0.96	1.00	1.00

PASS-FAIL

	PASS/FAIL	MAGNITUDE	STRENGTH	LOCATION (ft)	LOAD COMBO	DURATION FACTOR CD
Shear Stress Y (psi)	PASS (50.6%)	164.7	333.5	0	D+S	1.15
Bending Stress Y (psi)	PASS (48.1%)	1854.2	3571.2	9.283	D+S	1.15
Deflection Y (in)	PASS (38.5%)	0.608 (=L/390)	0.988 (=L/240)	9.677	D+S	1.15
Bearing Stress (psi)	PASS (1.8%)	564.7	575.0	0	D+S	1.15

REACTIONS

Units for V: lbf Units for M: lbf-ft

Y axis	DEAD	SNOW	TOTAL
A	4441	9395	13836
B	4441	6790	11231

Reaction Location

A

B

LOAD LIST

Type	Name	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Uniform (lbf/ft)	Uniform	630	630	0	19.75	Snow	Y
Uniform (lbf/ft)	Uniform	420	420	0	19.75	Dead	Y
Trapezoidal (lbf/ft)	Trapezoidal	831.6	0	0	9	Snow	Y
Self Weight (lbf/ft)	-	29.75	29.75	0	19.75	Dead	Y

COLUMNS BELOW BEAM:

APPLY BEAM REACTIONS →

USE: 3" STANDARD PIPE COLUMN
w/ 3.5" O.D.

- OR -

(4) 2x6 SPF #2

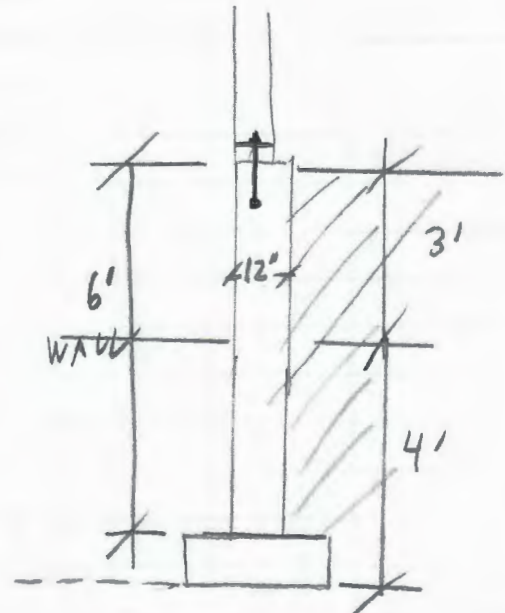
FOUNDATION LOADS:

$$W_s = 30 \times \left(\frac{20}{2} + 2.0' \right) = 360 \text{ plf}$$

$$W_D = 20 \times \left(\frac{20}{2} + 2 \right) = 240 \text{ plf}$$

$$W_{ALL} = 12 \text{ psf} \times 5' = 60 \text{ plf}$$

* ATTEMPT TO MATCH EXISTING
FOOTING DEPTH



SEE DESIGN

ANCHORS FOR WALL TO STUD WALL

$\frac{1}{2}$ " ϕ HEADED ANCHORS @ 72" O/C OR AT ENDS OF
WALL PLATE SECTIONS.

DATE:	4/24/2024	COMPANY:	Blodgett Engineering
STRUCALC BUILD:	StruCalc Pro	DESIGNED BY:	
CUSTOMER:	Racinowski	REVIEWED BY:	--
PROJ. ADDRESS:	--	PROJECT NAME:	Speaker - Fox Point
LEVEL:	Main Floor	LOADING:	ASD
MEMBER NAME:	Support Column	CODE:	2015 International Building Code
MEMBER TYPE:	COLUMN	AISC:	AISC 360-10
MATERIAL:	Steel		
Pipes	Pipe 3STD	A53-35	

Support Column DIAGRAM



3in BL (A)



BL (B) 3in

8'

COLUMN PROPERTIES

Start(ft) 0 End(ft): 8

Es x10 ³	Fy x10 ³	Fu x10 ³	Area	I	Z	J	Cw
(psi)	(psi)	(psi)	(in ²)	(in ⁴)	(in ³)	(in ⁴)	(in ⁶)
29000	35	60	2.07	2.85	2.19	5.69	0

DESIGN PROPERTIES

Lp	Lr	Flange	Web	Flange	Web	Cv	Cv_WA
(in)	(in)	Flexure	Flexure	Compression	Compression		
0	0	Compact	Compact	Non-Slender	Non-Slender	0	0

COLUMN DATA

Span	Length	Unbraced Length		Column End		Pnt/и	Pnc/и	Mn/и	Mn-OOP/и	Vn/и	Vn-OOP/и	Cb	Cb-OOP
		Top	Bottom	Elev. Diff									
1	8	8	8	0		0	30.74	3.82	3.82	13.01	21.74	1	1

PASS-FAIL

	PASS/FAIL	MAGNITUDE	STRENGTH	LOCATION (ft)	AISC CODE	LOAD COMBO
Compressive Force (lbf)	PASS (63.4%)	11254.6	30737.8	0	E3-1	D+S

REACTIONS

Units for V: lbf Units for M: lbf-ft

Z axis	DEAD	SNOW	TOTAL
A	4465	6790	11255
B	0	0	0

Reaction Location

A

B

LOAD LIST

Type	Name	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Self Weight (lbf/ft)	-	7.58	7.58	0	8	Dead	Z

LINKED LOAD LIST

Type	Member	Support	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Axial (lbf)	Central Beam	B	-4404.25	-4404.25	8	8	Dead	Z
Axial (lbf)	Central Beam	B	-6789.686	-6789.686	8	8	Snow	Z

DATE:	4/24/2024	COMPANY:	Blodgett Engineering
STRUCALC BUILD:	StruCalc Pro	DESIGNED BY:	
CUSTOMER:	Racinowski	REVIEWED BY:	--
PROJ. ADDRESS:	--	PROJECT NAME:	Speaker - Fox Point
LEVEL:	Main Floor	LOADING:	ASD
MEMBER NAME:	Support Column	CODE:	2015 International Building Code
MEMBER TYPE:	COLUMN	NDS:	2015 NDS
MATERIAL:	Solid Sawn		
Spruce-Pine-Fir	No. 2	(4) 1.5 X 5.5	DRY

COLUMN PROPERTIES

Start(ft) 0 End(ft): 8

Area	Ix	Iy	BSW	Lams	G	Kcr
(in ²)	(in ⁴)	(in ⁴)	(lb/ft)			Creep Factor
33	83.19	99	6.37	4	0.42	1

STRENGTH PROPERTIES

	Fb (psi)	Ft (psi)	Fv (psi)	Fc (psi)	Fc _⊥ (psi)	E (psi) x10 ³	Emin (psi) x10 ³
Base Values	875	450	135	1150	425	1400	510
Adjusted Values	1138	585	135	1265	425	1400	510
C _M	1	1	1	1	1	1	1
C _T	1	1	1	1	1	1	1
C _i	1	1	1	1	1	1	1
C _F	1.3	1.3	1	1.1	1	1	1

Bending Adjustment Factors C_{fu} = 1 C_r = 1

COLUMN DATA

Span	Length (ft)	Unbraced Length (ft)	Column End						
		X	Y	Offset	CP	Ke(X Axis)	Ke(Y Axis)	KeL/d (X Axis)	KeL/d (Y Axis)
1	8	8	8	0	0.44	1.00	1.00	17.45	16

PASS-FAIL

	PASS/FAIL	MAGNITUDE	STRENGTH	LOCATION (ft)	LOAD COMBO	DURATION FACTOR C
Compressive Stress (psi)	PASS (46.5%)	340.8	637.4	0	D+S	1.15

REACTIONS

Units for V: lbf Units for M: lbf-ft

Z axis	DEAD	SNOW	TOTAL
A	4455	6790	11245
B	0	0	0

Reaction Location

A

LOAD LIST

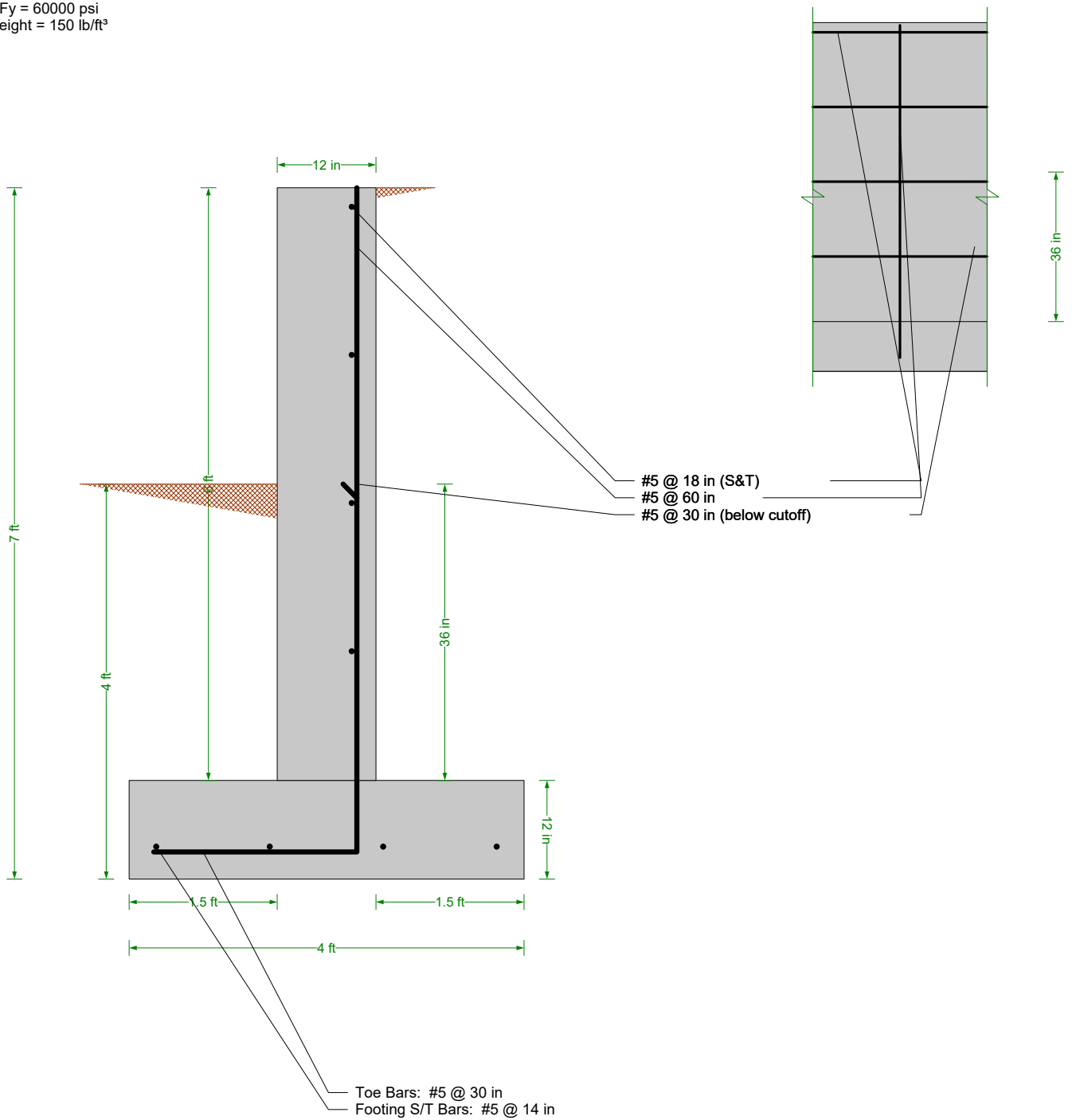
Type	Name	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Self Weight (lb/ft)	-	6.37	6.37	0	8	Dead	Z

LINKED LOAD LIST

Type	Member	Support	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Axial (lbf)	Central Beam	B	-4404.25	-4404.25	8	8	Dead	Z
Axial (lbf)	Central Beam	B	-6789.686	-6789.686	8	8	Snow	Z

Design Detail

Concrete f'_c = 3000 psi
Rebar F_y = 60000 psi
Unit Weight = 150 lb/ft³



HEADERS:

18' WIDE-END

$$W_S = 30 \times 4.5' = 135 \text{ plf}$$

$$W_D = 20 \times 4.5' = 90 \text{ plf}$$

USE: (2) 14.0" LVL (2.0 E)

$$\Delta = 0.379"$$

10' END

SAME LOADS AS 18'

(2) 9.25" LVL (2.0 E)

$$\Delta = 0.131"$$

12' WINDOWS:

$$W_S = 30 \times \left(\frac{22}{2} + 2 \right) = 390 \text{ plf}$$

$$W_D = 20 \times \left(\frac{22}{2} + 2 \right) = 260 \text{ plf}$$

$$\text{DRIFT} = 22 \text{ psf} \times \left(\frac{22}{2} + 2 \right) = 286 \text{ plf} \rightarrow 0$$

USE: (2) 11.875" LVL
2.0 E

$$\Delta = 0.365"$$

SUPPORT JAMBS:

12' WINDOW IS HANDED

$$\text{MAX WIND} = \left(\frac{18}{2} + .66 \right) \times 20 = 193.32 \text{ plf}$$

$$\text{WIND AT 12'} = \left(\frac{12}{2} + .66 \right) \times 20 = 133.33 \text{ plf}$$

USE: (4) 2x4 SPF #2
STUDS AT WINDOW
AND 18' DOOR

(3) 2x6 SPF #2 AT NEW
10' DOOR

DATE:	4/24/2024	COMPANY:	Blodgett Engineering
STRUCALC BUILD:	StruCalc Pro	DESIGNED BY:	
CUSTOMER:	Racinowski	REVIEWED BY:	--
PROJ. ADDRESS:	--	PROJECT NAME:	Speaker - Fox Point
	--		
LEVEL:	Roof	LOADING:	ASD
MEMBER NAME:	12 foot window	CODE:	2015 International Building Code
MEMBER TYPE:	FLOOR BEAM	NDS:	2015 NDS
MATERIAL:	Structural Composite Lumber		
Global LVL	2.0E 3300Fb LVL	(2) 1.75 X 11.875	DRY

BEAM PROPERTIES

Start (ft): 0 End (ft): 12.375 Member Slope: 0/12 Actual Length (ft): 12.375

Area	I _x	I _y	BSW	Lams	C _{fn}	K _{cr}
(in ²)	(in ⁴)	(in ⁴)	(lb/ft)			Creep Factor
41.56	488.41	10.61	9.81	2	6.67	1

STRENGTH PROPERTIES

	F _b (psi)	F _t (psi)	F _v (psi)	F _c (psi)	F _{c⊥} (psi)	E (psi) x10 ³	E _{min} (psi) x10 ³
Base Values	3300	2700	290	2700	575	2000	984.984
Adjusted Values	3300	2700	290	2700	575	2000	985
C _M	1	1	1	1	1	1	1
C _T	1	1	1	1	1	1	1
Bending Adjustment Factors	C _V = 1	C _r = 1	Volume factor is applied on a load combination basis and is not reflected in the adjusted values				

BEAM DATA

Span	Length (ft)	Unbraced Length (ft)		Beam End				
		Top	Bottom	Elev. Diff (ft)	CL(Top)	CL(Bottom)	CL(Left)	CL(Right)
1	12.375	0	12.375	0	1.00	0.90	1.00	1.00

PASS-FAIL

	PASS/FAIL	MAGNITUDE	STRENGTH	LOCATION (ft)	LOAD COMBO	DURATION FACTOR C
Shear Stress Y (psi)	PASS (51.2%)	162.6	333.5	0	D+S	1.15
Bending Stress Y (psi)	PASS (50.6%)	1879.3	3801.0	6.188	D+S	1.15
Deflection Y (in)	PASS (41.1%)	0.365 (=L/407)	0.619 (=L/240)	6.188	D+S	1.15
Bearing Stress (psi)	PASS (25.4%)	429.2	575.0	0	D+S	1.15

REACTIONS

Units for V: lbf Units for M: lbf-ft

Y axis	DEAD	SNOW	TOTAL
A	1669	2837	4506
B	1669	2454	4123

Reaction Location

A

B

LOAD LIST

Type	Name	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Uniform (lb/ft)	Uniform	390	390	0	12.375	Snow	Y
Uniform (lb/ft)	Uniform	260	260	0	12.375	Dead	Y
Trapezoidal (lb/ft)	Trapezoidal	286	0	0	3.25	Snow	Y
Self Weight (lb/ft)	-	9.81	9.81	0	12.375	Dead	Y

DATE:	4/24/2024	COMPANY:	Blodgett Engineering
STRUCALC BUILD:	StruCalc Pro	DESIGNED BY:	
CUSTOMER:	Racinowski	REVIEWED BY:	--
PROJ. ADDRESS:	--	PROJECT NAME:	Speaker - Fox Point
	--		
LEVEL:	Roof	LOADING:	ASD
MEMBER NAME:	18 foot wide	CODE:	2015 International Building Code
MEMBER TYPE:	FLOOR BEAM	NDS:	2015 NDS
MATERIAL:	Structural Composite Lumber		
Global LVL	2.0E 3300Fb LVL	(2) 1.75 X 14	DRY

BEAM PROPERTIES

Start (ft): 0 End (ft): 18.375 Member Slope: 0/12 Actual Length (ft): 18.375

Area	Ix	Iy	BSW	Lams	Cfn	Kcr
(in ²)	(in ⁴)	(in ⁴)	(lb/ft)			Creep Factor
49	800.33	12.51	11.57	2	6.67	1

STRENGTH PROPERTIES

	Fb (psi)	Ft (psi)	Fv (psi)	Fc (psi)	Fc _⊥ (psi)	E (psi) x10 ³	Emin (psi) x10 ³
Base Values	3300	2700	290	2700	575	2000	984.984
Adjusted Values	3300	2700	290	2700	575	2000	985
C _M	1	1	1	1	1	1	1
C _T	1	1	1	1	1	1	1

Bending Adjustment Factors C_V = 0.98C_r = 1 Volume factor is applied on a load combination basis And is Not reflected in the adjusted values

BEAM DATA

Span	Length (ft)	Unbraced Length (ft)		Beam End				
		Top	Bottom	Elev. Diff (ft)	CL(Top)	CL(Bottom)	CL(Left)	CL(Right)
1	18.375	0	18.375	0	1.00	0.62	1.00	1.00

PASS-FAIL

	PASS/FAIL	MAGNITUDE	STRENGTH	LOCATION (ft)	LOAD COMBO	DURATION FACTOR C
Shear Stress Y (psi)	PASS (80.0%)	66.5	333.5	18.375	D+S	1.15
Bending Stress Y (psi)	PASS (71.7%)	1047.9	3708.3	9.188	D+S	1.15
Deflection Y (in)	PASS (58.7%)	0.379 (=L/582)	0.919 (=L/240)	9.188	D+S	1.15
Bearing Stress (psi)	PASS (64.0%)	207.0	575.0	0	D+S	1.15

REACTIONS

Units for V: lbf Units for M: lbf-ft

Y axis	DEAD	SNOW	TOTAL
A	933	1240	2173
B	933	1240	2173

Reaction Location

A

B

LOAD LIST

Type	Name	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Uniform (lbf/ft)	Uniform	135	135	0	18.375	Snow	Y
Uniform (lbf/ft)	Uniform	90	90	0	18.375	Dead	Y
Self Weight (lbf/ft)	-	11.57	11.57	0	18.375	Dead	Y

DATE:	4/24/2024	COMPANY:	Blodgett Engineering
STRUCALC BUILD:	StruCalc Pro	DESIGNED BY:	
CUSTOMER:	Racinowski	REVIEWED BY:	--
PROJ. ADDRESS:	--	PROJECT NAME:	Speaker - Fox Point
	--		
LEVEL:	Roof	LOADING:	ASD
MEMBER NAME:	10 foot wide	CODE:	2015 International Building Code
MEMBER TYPE:	FLOOR BEAM	NDS:	2015 NDS
MATERIAL:	Structural Composite Lumber		
Global LVL	2.0E 3300Fb LVL	(2) 1.75 X 9.25	DRY

BEAM PROPERTIES

Start (ft): 0 End (ft): 10.375 Member Slope: 0/12 Actual Length (ft): 10.375

Area	I _x	I _y	BSW	Lams	C _{fn}	K _{cr}
(in ²)	(in ⁴)	(in ⁴)	(lb/ft)			Creep Factor
32.38	230.84	8.26	7.64	2	6.67	1

STRENGTH PROPERTIES

	F _b (psi)	F _t (psi)	F _v (psi)	F _c (psi)	F _c ⊥ (psi)	E (psi) x10 ³	E _{min} (psi) x10 ³
Base Values	3300	2700	290	2700	575	2000	984.984
Adjusted Values	3300	2700	290	2700	575	2000	985
C _M	1	1	1	1	1	1	1
C _T	1	1	1	1	1	1	1

Bending Adjustment Factors C_V = 1.04 C_T = 1 Volume factor is applied on a load combination basis and is not reflected in the adjusted values

BEAM DATA

Span	Length (ft)	Unbraced Length (ft)		Beam End				
		Top	Bottom	Elev. Diff (ft)	CL(Top)	CL(Bottom)	CL(Left)	CL(Right)
1	10.375	0	10.375	0	1.00	0.96	1.00	1.00

PASS-FAIL

	PASS/FAIL	MAGNITUDE	STRENGTH	LOCATION (ft)	LOAD COMBO	DURATION FACTOR
Shear Stress Y (psi)	PASS (83.2%)	55.9	333.5	10.375	D+S	1.15
Bending Stress Y (psi)	PASS (80.9%)	752.6	3946.0	5.188	D+S	1.15
Deflection Y (in)	PASS (74.7%)	0.131 (=L/950)	0.519 (=L/240)	5.188	D+S	1.15
Bearing Stress (psi)	PASS (80.0%)	114.9	575.0	0	D+S	1.15

REACTIONS

Units for V: lbf Units for M: lbf-ft

Y axis	DEAD	SNOW	TOTAL
A	507	700	1207
B	507	700	1207

Reaction Location

A

B

LOAD LIST

Type	Name	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Uniform (lbf/ft)	Uniform	135	135	0	10.375	Snow	Y
Uniform (lbf/ft)	Uniform	90	90	0	10.375	Dead	Y
Self Weight (lbf/ft)	-	7.64	7.64	0	10.375	Dead	Y

DATE:	4/24/2024	COMPANY:	Blodgett Engineering
STRUCALC BUILD:	StruCalc Pro	DESIGNED BY:	
CUSTOMER:	Racinowski	REVIEWED BY:	--
PROJ. ADDRESS:	--	PROJECT NAME:	Speaker - Fox Point
LEVEL:	Roof	LOADING:	ASD
MEMBER NAME:	Jambs	CODE:	2015 International Building Code
MEMBER TYPE:	COLUMN	NDS:	2015 NDS
MATERIAL:	Solid Sawn		
Spruce-Pine-Fir	No. 2	(4) 1.5 X 3.5	DRY

Jambs DIAGRAM



8'

COLUMN PROPERTIES

Start(ft) 0 End(ft): 8

Area	I _x	I _y	BSW	Lams	G	K _{cr}
(in ²)	(in ⁴)	(in ⁴)	(lbf/ft)			Creep Factor
21	21.44	63	4.05	4	0.42	1

STRENGTH PROPERTIES

	F _b (psi)	F _t (psi)	F _v (psi)	F _c (psi)	F _c ⊥ (psi)	E (psi) x10 ³	E _{min} (psi) x10 ³
Base Values	875	450	135	1150	425	1400	510
Adjusted Values	1312	675	135	1322	425	1400	510
C _M	1	1	1	1	1	1	1
C _T	1	1	1	1	1	1	1
C _i	1	1	1	1	1	1	1
C _F	1.5	1.5	1	1.15	1	1	1

Bending Adjustment Factors C_{fu} = 1 C_r = 1

COLUMN DATA

Span	Length (ft)	Unbraced Length (ft)		Column End		Ke(X Axis)	Ke(Y Axis)	KeL/d (X Axis)	KeL/d (Y Axis)
		X	Y	Offset	CP				
1	8	8	0	0	0.25	1.00	1.00	27.43	0

PASS-FAIL

	PASS/FAIL	MAGNITUDE	STRENGTH	LOCATION (ft)	LOAD COMBO	DURATION FACTOR C
Shear Stress Y (psi)	PASS (89.4%)	22.9	216.0	0	D+0.6W(+)	1.6
Bending Stress Y (psi)	PASS (70.1%)	626.9	2100.0	4	D+0.6W(+)	1.6
Deflection Y (in)	PASS (7.9%)	0.246 (=L/390)	0.267 (=L/360)	4	D+0.6W(+)	1.6
Compressive Stress (psi)	PASS (57.3%)	216.1	506.6	0	D+S	1.15
Bearing Stress (psi)	PASS (99.2%)	17.8	2116.0	0	D+0.6W(+)	1.6
Bending-Compression (Unit)	PASS (54.7%)	0.45	1.00	4	D+0.75L+0.45W(+)+0.75S	1.6

REACTIONS

Units for V: lbf

Units for M: lbf-ft

Z axis	DEAD	SNOW	WIND +	TOTAL
A	1702	2837	0	4539
B	0	0	0	0

Y axis

A	0	0	533	533
B	0	0	533	533

Reaction Location

A

B

LOAD LIST

Type	Name	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Uniform (lbf/ft)	Uniform	133.32	133.32	0	8	WindPlus	Y
Self Weight (lbf/ft)	-	4.05	4.05	0	8	Dead	Z

LINKED LOAD LIST

Type	Member	Support	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Axial (lbf)	12 foot window	A	-1669.469	-1669.469	8	8	Dead	Z
Axial (lbf)	12 foot window	A	-2837.192	-2837.192	8	8	Snow	Z

DATE:	4/24/2024	COMPANY:	Blodgett Engineering
STRUCALC BUILD:	StruCalc Pro	DESIGNED BY:	
CUSTOMER:	Racinowski	REVIEWED BY:	--
PROJ. ADDRESS:	--	PROJECT NAME:	Speaker - Fox Point
LEVEL:	Roof	LOADING:	ASD
MEMBER NAME:	Jamb 18	CODE:	2015 International Building Code
MEMBER TYPE:	COLUMN	NDS:	2015 NDS
MATERIAL:	Solid Sawn		
Spruce-Pine-Fir	No. 2	(3) 1.5 X 5.5	DRY

COLUMN PROPERTIES

Start(ft) 0 End(ft): 8

Area	Ix	Iy	BSW	Lams	G	Kcr
(in ²)	(in ⁴)	(in ⁴)	(lb/ft)			Creep Factor
24.75	62.39	41.77	4.77	3	0.42	1

STRENGTH PROPERTIES

	Fb (psi)	Ft (psi)	Fv (psi)	Fc (psi)	Fc⊥ (psi)	E (psi) x10 ³	Emin (psi) x10 ³
Base Values	875	450	135	1150	425	1400	510
Adjusted Values	1138	585	135	1265	425	1400	510
C _M	1	1	1	1	1	1	1
C _T	1	1	1	1	1	1	1
C _i	1	1	1	1	1	1	1
C _F	1.3	1.3	1	1.1	1	1	1

Bending Adjustment Factors C_{fu} = 1 C_r = 1

COLUMN DATA

Span	Length (ft)	Unbraced Length (ft)	Column End	Offset	CP	Ke(X Axis)	Ke(Y Axis)	KeL/d (X Axis)	KeL/d (Y Axis)
1	8	X 8 Y 0		0	0.55	1.00	1.00	17.45	0

PASS-FAIL

	PASS/FAIL	MAGNITUDE	STRENGTH	LOCATION (ft)	LOAD COMBO	DURATION FACTOR C
Shear Stress Y (psi)	PASS (87.0%)	28.1	216.0	0	D+0.6W(+)	1.6
Bending Stress Y (psi)	PASS (73.0%)	490.8	1820.0	4	D+0.6W(+)	1.6
Deflection Y (in)	PASS (69.4%)	0.122 (=L/787)	0.400 (=L/240)	4	D+0.6W(+)	1.6
Compressive Stress (psi)	PASS (89.8%)	89.4	872.9	0	D+S	1.15
Bearing Stress (psi)	PASS (98.3%)	34.4	2024.0	0	D+0.6W(+)	1.6
Bending-Compression (Unit)	PASS (72.1%)	0.28	1.00	4	D+0.6W(+)	1.6

REACTIONS

	DEAD	SNOW	WIND +	TOTAL
Z axis				
A	971	1240	0	2211
B	0	0	0	0
Y axis				
A	0	0	773	773
B	0	0	773	773

Reaction Location

A

LOAD LIST

Type	Name	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Uniform (lb/ft)	Uniform	193.32	193.32	0	8	WindPlus	Y
Self Weight (lb/ft)	-	4.77	4.77	0	8	Dead	Z

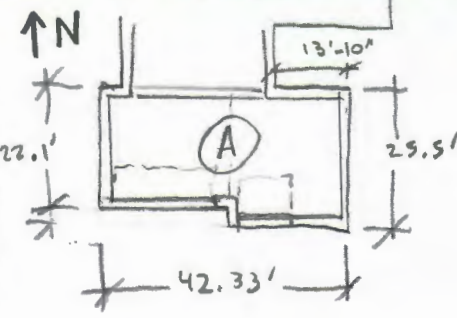
LINKED LOAD LIST

Type	Member	Support	Left Magnitude	Right Magnitude	Load Start (ft)	Load End (ft)	Load Type	Direction
Axial (lbf)	18 foot wide	B	-933.169	-933.169	8	8	Dead	Z
Axial (lbf)	18 foot wide	B	-1240.313	-1240.313	8	8	Snow	Z

Wall Bracing Compliance Worksheet

Complete this worksheet or provide equivalent information on the plans submitted with the permit application.

Sketch and dimension the building plan and the wall bracing rectangle(s) per 321.25(8)(c)1. and Figure 321.25-B. Provide and label additional sketches if the building plan/rectangles change at different floor levels.



SIDE:	REQ'd	PROVIDED
N	4'	≤ 13.83'
S	4'	≤ 7.5'
E	6.032'	≤ 25.5'
W	6.032'	≤ 9.5'

ALL WALLS CS-WSP

Indicate applicable Wall Bracing Method for each level (see Table 321.25-G), each labeled rectangle if more than one [see 321.25(8)(c)], and amount of bracing (# of braced panels or length of braced wall required) per the respective table (provide additional worksheets for additional rectangles as needed):

Rectangle: A Wall Ht. = 8.25 Eave to Ridge Ht. = 1' Max. Opening Ht. = 7' Wind Exp. = B

Walls Supporting:	Intermittent method (LIB, DWB, WSP, SFB, GB, PCP) and # of panels per Table 321.25-I Min. panel width (Table 321.25-G) =		Continuous method (CS-WSP, CS-SFB) and total length required per Table 321.25-J Min. panel width (Table 321.25-H) =		PF Method (see Figure 321.25-A). Indicate number of PF panels 16-24" wide provided. Min. PF width (Fig. 321.25-A) =	
<u>Roof + CEILING</u>	Long side	Short side	Long side	Short side	Long side	Short side
Roof and ceiling only	<u>25.5 → 2.325 × 9.5 =</u>		<u>2.2 → 4'</u>	<u>6.032'</u>	<u>2.95 × 6.35 → 42.33</u>	
One floor, roof and ceiling						
Two floors, roof and ceiling						

Rectangle: Wall Ht. = Eave to Ridge Ht. = Max. Opening Ht. = Wind Exp. =

Walls Supporting:	Intermittent method (LIB, DWB, WSP, SFB, GB, PCP) and # of panels per Table 321.25-I Min. panel width (Table 321.25-G) =		Continuous method (CS-WSP, CS-SFB) and total length required per Table 321.25-H Min. panel width (Table 321.25-H) =		PF Method (see Figure 321.25-A). Indicate number of PF panels 16-24" wide provided. Min. PF width (Fig. 321.25-A) =	
	Long side	Short side	Long side	Short Side	Long side	Short side
Roof and ceiling only						
One floor, roof and ceiling						
Two floors, roof and ceiling						

PF Method: For Intermittent bracing, per Table 321.25-I footnote 'h', each PF panel (16-24" wide per Figure 321.25-A) counts as 1/2 of a braced wall panel when determining compliance with Table 321.25-I. For Continuously Sheathed bracing, the actual length of each PF panel (16-24" wide per Figure 321.25-A) in feet counts toward the required total length of bracing required. For intermittent or continuous methods, each PF panel meeting min. required width of Fig. 321.25-A counts as a braced wall panel when evaluating panel spacing per Fig. 321.25-C.

Indicate the location and construction details of required braced wall panels determined above on each rectangle side as required by Figure 321.25-C on the floor plans submitted with the permit application.

CS-WSP - 1/2 OSB w/ 6d COMMON OR 8d BOX NAILS (2 3/4" x 0.113" φ) 6" MAX EDGE SPACING 12" MAX FIELD SPACING