

TOWN OF MILTON – BOARD OF APPEALS APPLICATION

(Phone) 617-898-4924

(Hours) 8:00AM-5:00PM (Monday-Thursday) 8:00AM-1:30PM (Friday)

File Plans & Denial Letter with This Application in Triplicate.

All Application's must be signed.

\$100.00 APPLICATION FEE

Date: 11-3-2025

Address of Property: 109 Smith Rd

Section:

Block: C-48-5A Lot:

District Zoned for:

Type of Structure: Existing Proposed

Owner's Name: Stephen Gillings

Owner's Phone Number: 617-593-1100

Owner's Email Address: stephengillings40@gmail.com

Owner's Address: 109 Smith Rd, Milton

Has a Building Permit Application been filed: Yes No

Has any previous appeals been made: Yes No

If answered Yes, provide Case Number:

Section of By-Law for which relief is requested: 3D

Reasons for Requesting Relief: <sup>the</sup> Sides are 9.1' instead of 10', the new addition would be 2' feet smaller to meet the Setback

Attorney's Signature:

Attorney's Email Address:

Signature of Applicant: Sgillings

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(For office use only)

Case Number: 2896

Date Received:

11-04-2025

# Application Instructions

**Board of Appeals Rules for filing Applications Instructions 617-898-4924**

## **PLEASE READ ENTIRE PACKAGE BEFORE SUBMITTING APPLICATION**

Application must be filed with the Board of Appeals at the Town Hall and be accompanied by a check payable to the Town of Milton in the amount of \$100.00. All fees are non-refundable.

The petitioner shall pay for all postage and legal ads associated with the Petition. (Postage includes mailings to abutters within 300 ft of applicant). The total amount of Postage Fees must be paid by check (Made out to the Town of Milton) immediately upon receipt of invoice.

The Legal notice will be placed in the Milton Times by the Board of Appeals and costs of this Legal notice must be paid by the Petitioner prior to the Hearing; the average cost is \$400.00 - \$500.00. The Milton Times will reach out to the applicant prior to print for payment.

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### **The Application shall also include:**

#### **3 copies of each:**

Plans and Decision(s) from any other Boards or Commissions.

Denial Letter or Violation Notice received from the Town of Milton Building Department.

Certified plot plan and all other related plans and documents.

The application shall state if the Petitioner is the owner of the land or their agent. If agent; a letter authorizing the agent to speak for all owners.

#### **The Appeal process time frame:**

Completed Application and all required Documentation is filed with the Town Clerk, starts the process. The Board has 65 days to schedule a Public Hearing. The Board has 100 days, from the date of filing with the Board start of the process, to render a decision on a Variance. The Board has 90 days, from the close of the hearing, to render a Decision on a Special Permit.

The Public Hearing must be published in a local newspaper for two consecutive weeks and the first week cannot be closer than two weeks to the Public Hearing date.

When the Decision is rendered in writing by the Board of Appeals, a copy is filed with the Town Clerk. That begins a 20-day Appeal Period.

If after 20-days there are no appeals to the Superior Court, the Decision will be certified by the Town Clerk's Office. You will be notified to either pick it up or we can mail it out. Upon receipt of Decision, it needs to be brought to the Registry of Deeds for Recording. They will give you a signed receipt/paperwork that you must return to the Building Department at Milton Town Hall.



# TOWN OF MILTON INSPECTIONAL SERVICES

525 CANTON AVENUE

MILTON, MA 02186

Telephone: 617-898-4925

Michael White  
Building  
Commissioner

November 11, 2025

Jay W. Beaulieu  
Local Inspector

Stephon Gillings

14 Electric Ave.

Brockton, MA .02302

Walter White  
Local Inspector

Barry T. Ringler  
Local Inspector

Re: Proposed approximately 9'x20' left side second story addition ,proposed rear two story approximately 18'x32' addition & tearing the roof off the existing house and adding a 1-1/2 story addition located at 109 Smith Road.  
Map- Lot -Block C - 48 - 5A

Domenic Franceschelli  
Wire Inspector

Mark Kelly  
Plumbing & Gas  
Inspector/Sealer of  
Weights and Measures

To Whom it concerns,

This office has reviewed your proposal to construct a 9'x20' second story addition, a 18'x32' two story addition and removal of the roof of the existing house to add a 1-1/2 story addition to the home located at 109 Smith Road.

Eric Pilsmaier  
Plumbing & Gas  
Inspector/Sealer of  
Weights and Measures

Here are our findings:

Markelian Berdufi  
Code Enforcement

Katina Goodridge  
Sr. Administrative  
Clerk

William Donnelly  
Sr. Administrative  
ZBA Clerk

A) The property is in Residence C zoning District.

B) The existing house was built in 1930.

C) This existing house is a pre-existing nonconforming structure.

D) The Lot is a pre-existing non-conforming lot.

E) A plot prepared by Jaems Nabstedt, a Professional Land Surveyor dated October 15, 2025, shows all the proposed new work.

F) The proposed new work will increase the current non-conformity of the structure therefore the building permit application number 65161 is hereby denied.

**G) Per Article IV Section 275-4.1(B)**

“A valid pre-existing, nonconforming single family or two family residential structure may be extended or altered as of right within the existing building envelope or within a height and setback which conform with the dimensional requirements of the Milton Zoning Bylaws **and may be further extended or altered beyond the existing building envelope or beyond the limits of the dimensional requirements**, if authorized by a special permit from the Board of Appeals, and subject to appropriate conditions, limitations, and safeguards stated in writing by the Board of Appeals and made a part thereof.”

*H) Section 275-4.1 (non-conformities) you have the right to seek relief from this zoning by-law, through the Special Permit process with the Town of Milton's Zoning Board of Appeals.*

- I) Please contact William Donnelly at 617-898-4924 for assistance with the zoning appeals application process.
- J) Per MGL 40A section 15 you have the right to appeal my decision to the Town of Milton's Zoning Board of Appeals within 30 days of receipt of this letter.

Sincerely



Michael White C.B.O  
Building Commissioner  
Zoning Enforcement Officer  
Town of Milton

# Milton - Schedule of Payments

SOP # 60306 Building 11/3/2025 3:17 PM

11/3/2025 02:17 PM  
Page 1 of 1

| Date                     | Payer                                      | Description     | Source                         | GL Account                                   | Type         | Payment | Amount   |
|--------------------------|--------------------------------------------|-----------------|--------------------------------|----------------------------------------------|--------------|---------|----------|
| Batch 63230: Building, , |                                            |                 |                                |                                              |              |         |          |
| 11/03/2025               | stephon a gillings<br>and khamari gillings | application fee | Bd of Appeals - Applic.<br>Fee | 100-0004-1-176-4300-4320-00-0-0000-<br>0-000 | Cash Receipt | Check   | \$100.00 |
| Batch Total              |                                            |                 |                                |                                              |              |         | \$100.00 |
| Grand Total              |                                            |                 |                                |                                              |              |         | \$100.00 |

To Treasurer, Town Accountant, County Clerk

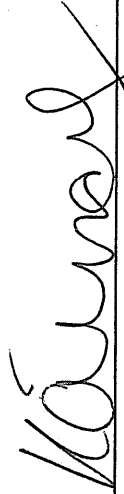
The above is a detailed listing of monies received by the above named department/persons.

Amounting in the aggregate to: \$100.00

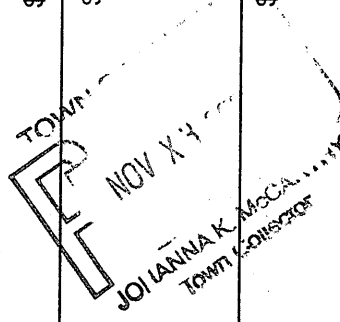
Count of Receipts 1  
Count of Payments 0

Paper  
Coin

Check \$100.00  
Receipt Total \$100.00  
Payment Total \$0.00  
Adjustment Total  
Grand Total \$100.00

  
Department Head or Agent

TREASURER/COLLECTOR

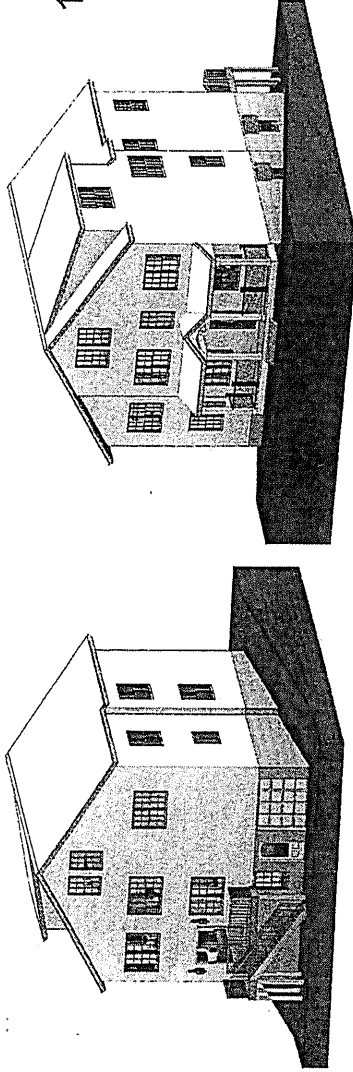




Stephon Gillings

PROPOSED HOME RENOVATION.  
ADDITION OF 18' X 33' BASEMENT,  
FIRST FLOOR AND SECOND FLOOR,  
AT THE REAR OF THE HOUSE.

109 SMITH ROAD  
MILTON, MA



PERMIT SET  
25-087  
9/15/2025



INTERIOR DESIGN

RANGEL PLANNING & DESIGN INC.

26 NORWOOD STREET,  
EVERETT, MA 02149  
T:339-440-7943

OWNER

Stephon Gillings

109 SMITH ROAD  
MILTON, MA

### SHEET LIST

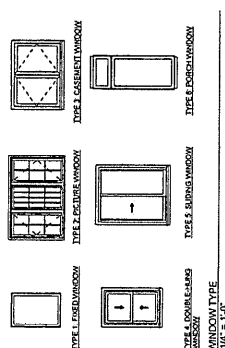
| Sheet List |              | Sheet Name                 | Drawn By | Sheet Issue Date | Current Revision Description |
|------------|--------------|----------------------------|----------|------------------|------------------------------|
| N          | Sheet Number |                            |          |                  |                              |
| 1          | G-01         | GENERAL                    | S.R.     | 9/15/2025        |                              |
| 2          | G-02         | NOTES & CODE NARRATIVE     | S.R.     | 9/15/2025        |                              |
| 3          | G-03         | WINDOW & DOOR SCHEDULE     | S.R.     | 9/15/2025        |                              |
| 4          | A-01         | DEMOLITION FLOOR PLAN      | S.R.     | 9/15/2025        |                              |
| 5          | A-02         | PROPOSED BASEMENT LEVEL    | S.R.     | 9/15/2025        |                              |
| 6          | A-03         | PROPOSED FIRST FLOOR PLAN  | S.R.     | 9/15/2025        |                              |
| 7          | A-04         | PROPOSED SECOND FLOOR PLAN | S.R.     | 9/15/2025        |                              |
| 8          | A-05         | PROPOSED ATTIC FLOOR PLAN  | S.R.     | 9/15/2025        |                              |
| 9          | A-06         | FOUNDATION PLAN            | S.R.     | 9/15/2025        |                              |
| 10         | A-07         | BEAM DETAIL                | S.R.     | 9/15/2025        |                              |
| 11         | A-08         | STAIRS DETAIL              | S.R.     | 9/15/2025        |                              |
| 12         | A-09         | ENLARGED BATHROOM          | S.R.     | 9/15/2025        |                              |
| 13         | A-10         | ENLARGED BATHROOM          | S.R.     | 9/15/2025        |                              |
| 14         | A-11         | ENLARGED BATHROOM          | S.R.     | 9/15/2025        |                              |
| 15         | A-12         | ENLARGED BATHROOM          | S.R.     | 9/15/2025        |                              |
| 16         | A-13         | ENLARGED BATHROOM          | S.R.     | 9/15/2025        |                              |
| 17         | S-01         | FOUNDATION PLAN            | S.R.     | 9/15/2025        |                              |
| 18         | S-02         | FRAMING PLAN               | S.R.     | 9/15/2025        |                              |
| 19         | S-03         | BEAM DETAILS               | S.R.     | 9/15/2025        |                              |
| 20         | S-04         | WOOD FRAMING AND FASTENING | S.R.     | 9/15/2025        |                              |
| 21         | S-05         | DECK FRAMING               | S.R.     | 9/15/2025        |                              |

G-01



|                          |      |
|--------------------------|------|
| Fenestration U-Factor    | 0.35 |
| Skyflight U-Factor       | 0.60 |
| Glazed Fenestration SHGC | NR   |

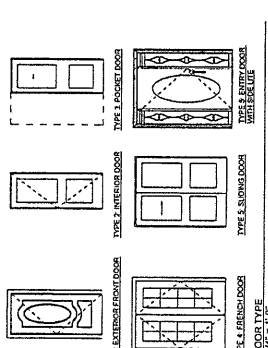
WINDOWS. CONFIRM THAT OPENINGS ARE CONFORMANT WITH ALL APPLICABLE BUILDING CODES CONCERNING EGRESS, LIGHTING AND VENTILATION REQUIREMENTS. TEMPER ALL GLASS LOCATED WITHIN 2' OF FROM EXTERIOR DOORS, ALL GLASS IN DOORS AND ABOVE TUB ENCLOSURES, GLASS GREATER THAN 9 SQ. FT. IN AREA AND A SILL HEIGHT SHALL BE 24" ABOVE FINISH FLOOR. PROVIDE AND INSTALL NECESSARY WINDOWS AND APPROPRIATE HARDWARE TO OPERATE LOCK WINDOWS. BEDROOM WINDOWS SHALL COMPLY WITH CODE REQUIREMENTS FOR EMERGENCY ESCAPE WITH APPROPRIATE EGRESS HARDWARE. MINIMUM NET CLEAR OPENING SHALL BE 5.7 SQ. FT., MINIMUM SILL HEIGHT SHALL BE 20" MINIMUM NET CLEAR HEIGHT SHALL BE 24" SILL HEIGHT SHALL NOT EXCEED 24" ABOVE FLOOR.



EXTERIOR DOORS - ALL EXTERIOR DOORS SHALL BE SOLID CORE, INSULATED AND WEATHERSTRIPPED. WEATHERSTRIPPING SHALL BE INSTALLED WEATHERSTRIPPING AROUND ALL DOORS, INCLUDING PREHUNG DOOR UNITS. SEE DOOR SCHEDULE FOR DOOR AND FRAME MATERIAL.

INTERIOR DOORS - INTERIOR DOORS SHALL BE PREHUNG UNITS. SEE DOOR SCHEDULE FOR DOOR AND FRAME MATERIAL.

DOOR HARDWARE - FINISH HARDWARE SHALL INCLUDE KEYS AND KEYPAD LOCKSETS AT ALL EXTERIOR DOORS. INTERIOR DOORS SHALL BE COMBINATION OF PRIVACY AND PASSAGE LOCKS. SEE DOOR SCHEDULE FOR DOOR HARDWARE REQUIREMENTS.

[illegible]

TOTAL: 26

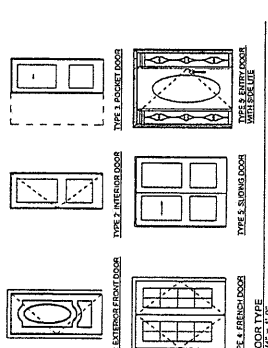
[illegible]

TOTAL: 30

EXTERIOR DOORS - ALL EXTERIOR DOORS SHALL BE SOLID CORE, INSULATED AND WEATHERSTRIPPED. WEATHERSTRIPPING SHALL BE INSTALLED WEATHERSTRIPPING AROUND ALL DOORS, INCLUDING PREHUNG DOOR UNITS. SEE DOOR SCHEDULE FOR DOOR AND FRAME MATERIAL.

INTERIOR DOORS - INTERIOR DOORS SHALL BE PRE-HUNG UNITS. SEE DOOR SCHEDULE FOR DOOR AND FRAME MATERIAL.

DOOR HARDWARE - FINISH HARDWARE SHALL INCLUDE KEYS (KEYS AND KEYS/LOCKSETS AT ALL EXTERIOR DOORS. INTERIOR DOORS SHALL BE A COMBINATION OF PRIVACY AND PASSAGE LOCKS. SEE DOOR SCHEDULE FOR DOOR HARDWARE REQUIREMENTS.



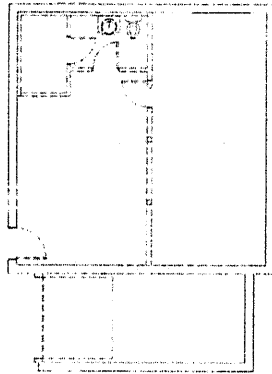
G-03

**Code**

**1000**

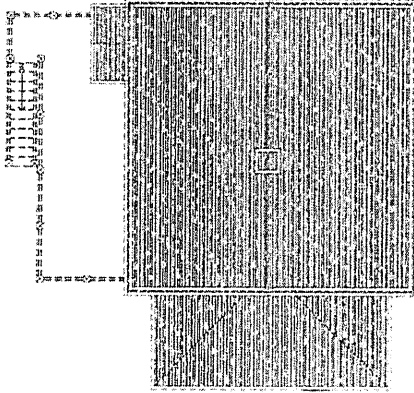


NOTES: VERIFY ALL DIMENSIONS IN FIELD PRIOR TO FABRICATION AND CONSTRUCTION. ALL EXISTING CONDITIONS TO REMAIN AS IS UNLESS OTHERWISE NOTED.  
ALL DASHED RED CONSTRUCTION TO BE REMOVED.



① Basement Demolition Plan  
3/16" = 1'-0"

② Existing Foot  
3/16" = 1'-0"



A. THE DEMOLITION PLAN IS INTENDED TO SHOW THE CONTRACTOR THE EXISTING CONDITIONS OF THE STRUCTURE TO BE DEMOLISHED. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS BEFORE PROCEEDING WITH THE DEMOLITION. B. WHERE DEFICIENCIES INVOLVE STRUCTURAL ITEMS, REPORT SUCH DEFICIENCIES TO THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING IN THE AREA IN QUESTION. C. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE THE SALVAGE OF LIGHT FIXTURES, MECHANICAL EQUIPMENT, ELECTRICAL AND PLUMBING FOR REUSE OR RECYCLING. D. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES AND OTHER SAFETY MEASURES TO PROTECT THE GENERAL PUBLIC, OCCUPANTS, AND THE GENERAL PUBLIC. E. THE CONTRACTOR SHALL REPAIR AT NO COST TO THE OWNER, DAMAGES TO THE ADJACENT AREAS BY DEMOLITION WORK.

DEMOLITION NOTES:  
1/8" = 1'-0"

WALLS EXISTING TO REMAIN  
WALLS AND OTHER ELEMENTS TO BE DEMOLISHED AND DISPOSED OF OFFSITE  
PROPOSED NEW WALLS  
WALL LEGEND:  
1/8" = 1'-0"



HyperAngelsDesign.com  
2015  
EVERETT, MA  
02149  
(603) 460-7940

Stephon Gillings

109 SMITH ROAD  
MILTON, MA

| No. | Description       | Date     |
|-----|-------------------|----------|
| 1   | DEMOLITION DESIGN | 10/22/20 |
| 2   | REVISED           | 10/22/20 |
| 3   | REVISED           | 10/22/20 |
| 4   | REVISED           | 10/22/20 |
| 5   | REVISED           | 10/22/20 |
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| 97  | REVISED           | 10/22/20 |
| 98  | REVISED           | 10/22/20 |
| 99  | REVISED           | 10/22/20 |
| 100 | REVISED           | 10/22/20 |



## DEMOLITION FLOOR PLAN



A-01

10/22/20



http://xtrangelengineering.com/  
26 HANCOCK STREET,  
EVANSTON, MA  
02149  
(339) 440-7443

Stephon Gillings

109 SMITH ROAD  
MILTON, MA

| No. | Description        | Date      |
|-----|--------------------|-----------|
| 1   | EXISTING ELEVATION | 9/15/2015 |

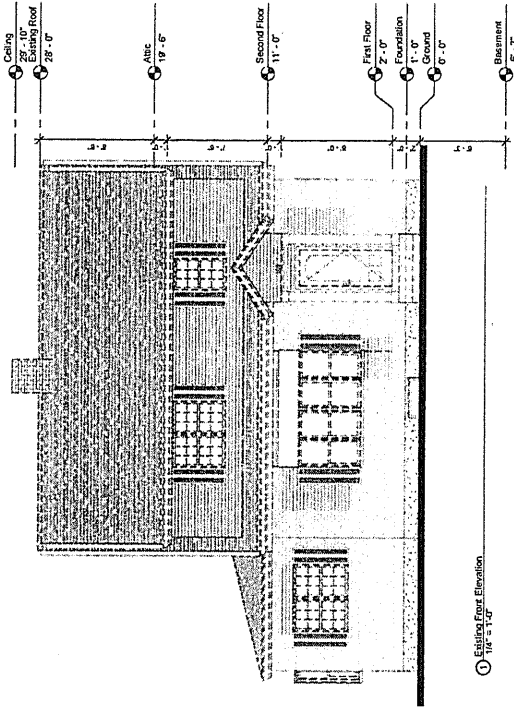
Sheet Project Number: 25.000  
Date: 9/15/2015  
Drawn by: S.R.  
Checked by: S.R.  
Verified by:



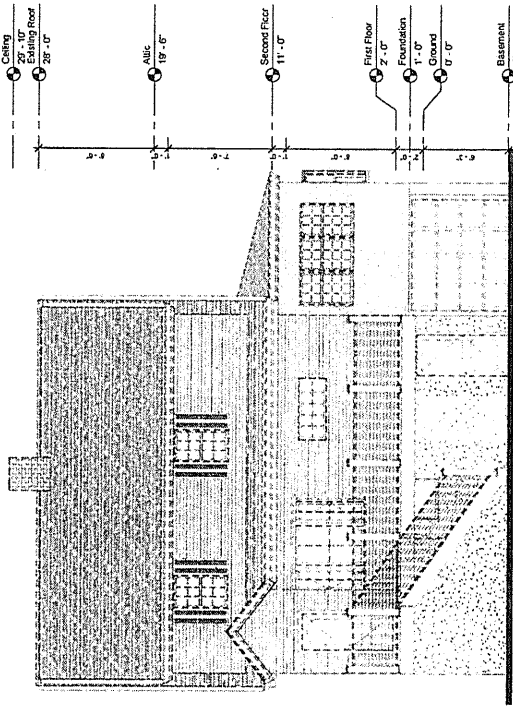
EXISTING  
ELEVATION



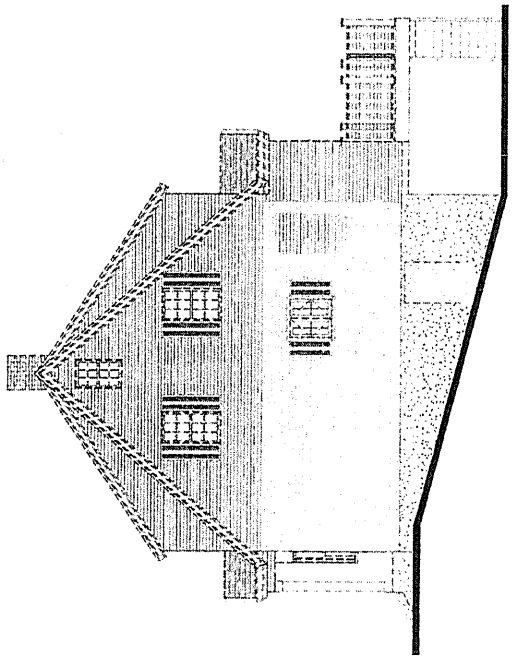
A-02



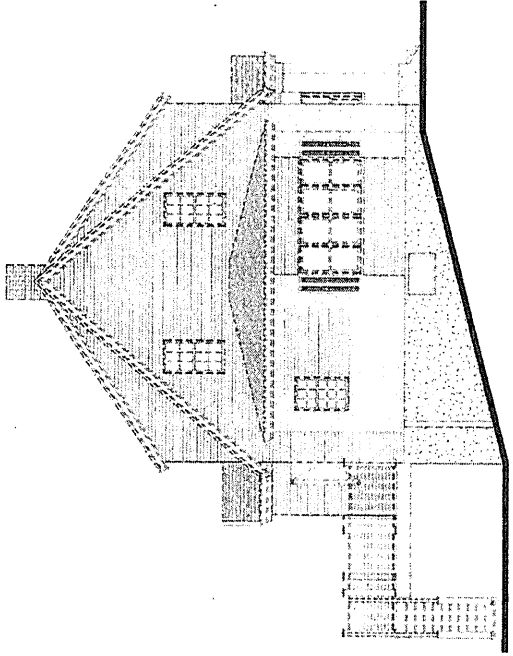
Existing Right Elevation  
1/4\"/>



Existing Left Elevation  
1/4\"/>



Existing Back Elevation  
1/4\"/>



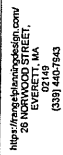
Existing Front Elevation  
1/4\"/>











Stephon Gillings

109 SMITH ROAD  
MILTON, MA

| No. | Description        | Date      |
|-----|--------------------|-----------|
| 1   | SCHEMATIC DESIGN 1 | 9/15/2025 |
|     |                    |           |
|     |                    |           |
|     |                    |           |
|     |                    |           |

|                      |           |
|----------------------|-----------|
| Rural Project Number | 25-087    |
| Date                 | 9/15/2025 |
| Drawn by             | S.R.      |
| Checked by           | J.K.      |



ROOF PLAN



A-07

\_\_\_\_\_

**SOLAR READY ZONE**

**SOLAR REA**

GRAPHIC SCALE

0

3514

ICE & WATER SHIELD  
72" OF ICE & WATER SHIELD TO BE INSTALLED IN ROOF  
WITH A PITCH HIGHER THAN 3/12.  
ICE & WATER SHIELD ON ENTIRE PORTION OF ROOF TO BE  
INSTALLED IN AREAS WITH PITCH LESS THAN 3/12

ICE BUREAU

[illegible]

-REFER TO SECTION AU102-AU103 OF THE CODE AND RB 103.5, 8, 9 & RB 103.1 ELECTRICAL PANEL  
-RESERVE SPACE TO ALLOW INSTALLATION OF A DUAL POLE CIRCUIT BREAKER FOR FUTURE SOLAR ELECTRIC INSTALLATION  
-LABELED "FOR FUTURE SOLAR ELECTRIC"

THE RESERVED SPACE SHALL BE POSITIONED AT THE OPPOSITE END FROM THE INPUT FEEDER LOCATION  
OR MAIN CIRCUIT LOCATION  
- A PERMANENT CERTIFICATE INDICATING SOLAR READY ZONE SHALL BE POSTED NEAR THE ELECTRICAL DISTRIBUTION PANEL  
THE SOLAR READY AREA  
- ROOF AREA ORIENTED BETWEEN 110 AND 270 DEGREES OF TRUE NORTH SHALL BE FREE OF OBSTRUCTIONS AND CHIMNEYS

**SOLAR READY ZONE**

**SOLAR REA**





https://j.rangeldesign.com/  
28 MORRIS STREET,  
EVANSTON, MA  
02149  
(339) 440-7843

Stephon Gillings

109 SMITH ROAD  
MILTON, MA

| No. | Description         | Date     |
|-----|---------------------|----------|
| 1   | SCHEMATIC DESIGN 1  | 9/1/2023 |
| 2   | SCHEMATIC DESIGN 2  | 9/1/2023 |
| 3   | SCHEMATIC DESIGN 3  | 9/1/2023 |
| 4   | SCHEMATIC DESIGN 4  | 9/1/2023 |
| 5   | SCHEMATIC DESIGN 5  | 9/1/2023 |
| 6   | SCHEMATIC DESIGN 6  | 9/1/2023 |
| 7   | SCHEMATIC DESIGN 7  | 9/1/2023 |
| 8   | SCHEMATIC DESIGN 8  | 9/1/2023 |
| 9   | SCHEMATIC DESIGN 9  | 9/1/2023 |
| 10  | SCHEMATIC DESIGN 10 | 9/1/2023 |

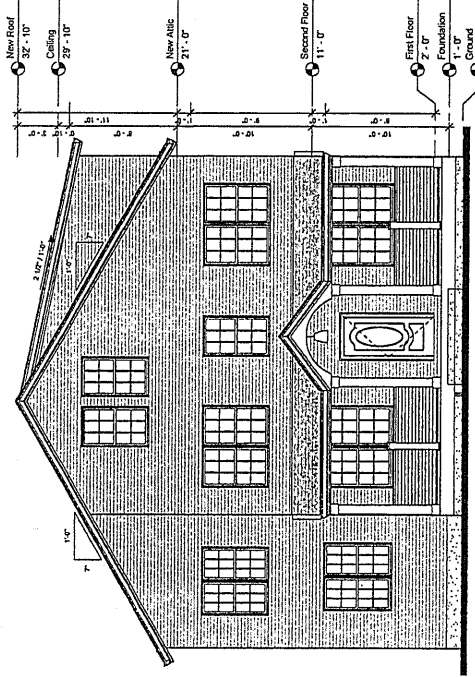
Project Number: 75-007  
Project Name: 109 SMITH ROAD  
Owner: STEPHON GILLINGS  
Drawn By: J.R.  
Checked By: J.R.



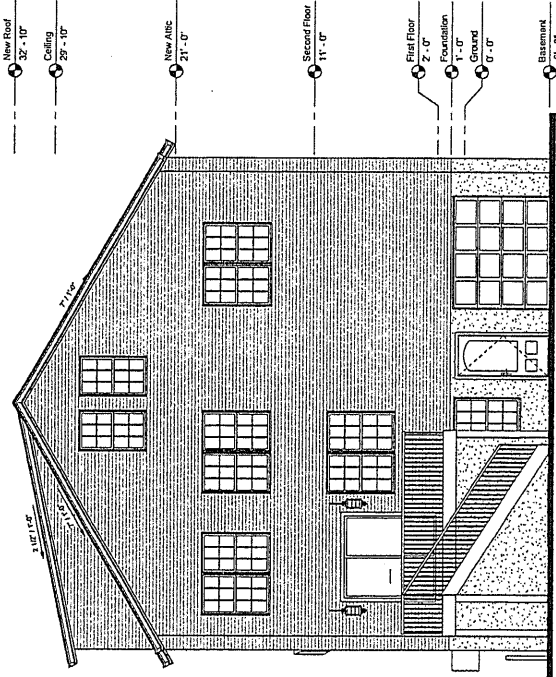
ELEVATION



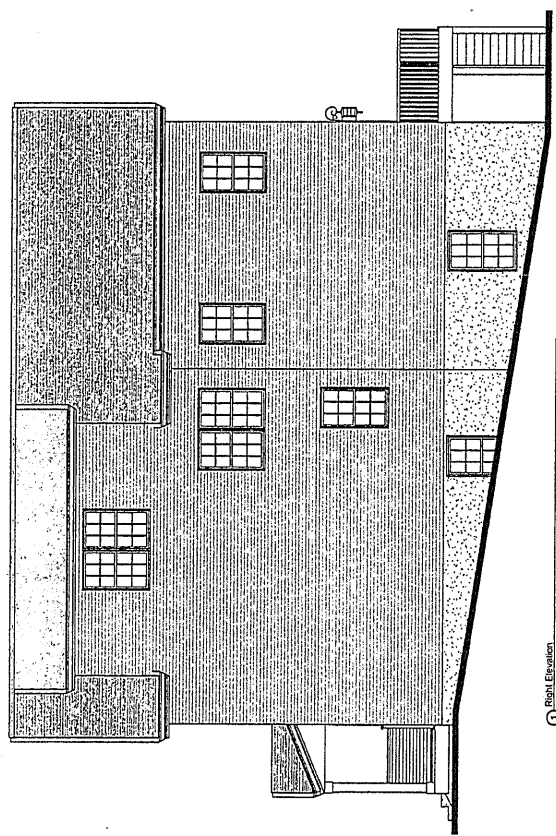
A-08



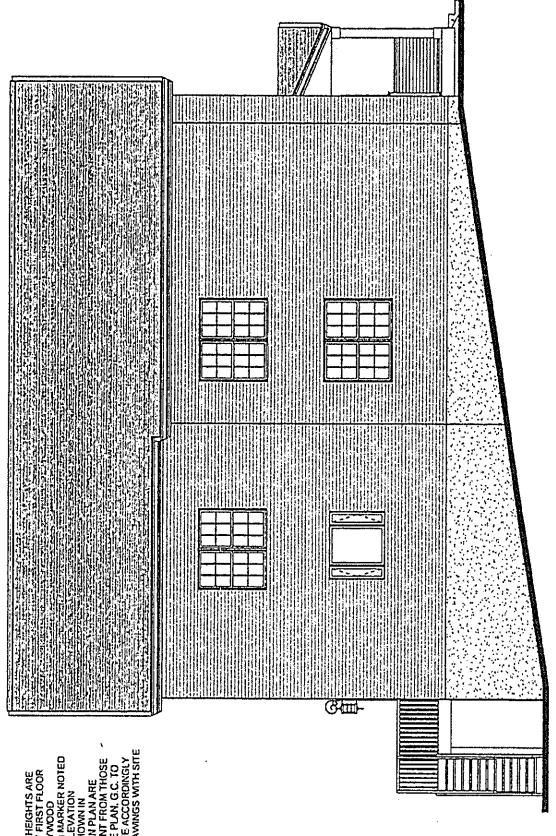
① Front Elevation  
1/4\"/>



② Side Elevation  
1/4\"/>



③ Rear Elevation  
1/4\"/>

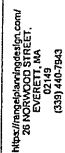


④ Left Elevation  
1/4\"/>

NOTES:  
1. ELEVATIONS ARE  
DEFINED BY FIRST FLOOR  
TOP OF PLYWOOD  
2. ELEVATIONS ARE NOTED  
AS 100.0' ELEVATION  
3. HEIGHTS SHOWN IN  
THIS ELEVATION ARE  
INDEPENDENT FROM THOSE  
OF THE SITE PLAN, G.C. TO  
CONSTRUCTION ACCORDING  
TO THE DESIGNER'S SITE  
PLAN.







109 SMITH ROAD  
MILTON, MA

| No. | Description        | Date      |
|-----|--------------------|-----------|
| 1   | SCHEMATIC DESIGN 1 | 9/15/2025 |
|     |                    |           |
|     |                    |           |
|     |                    |           |
|     |                    |           |

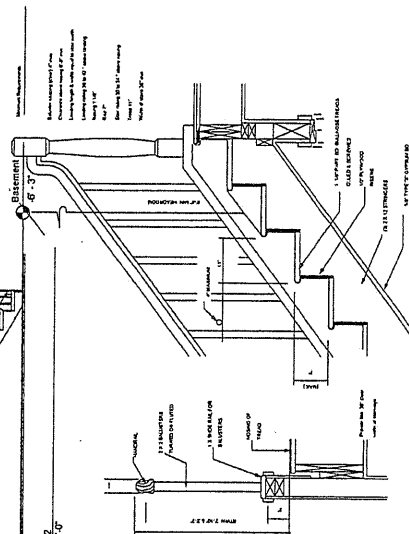
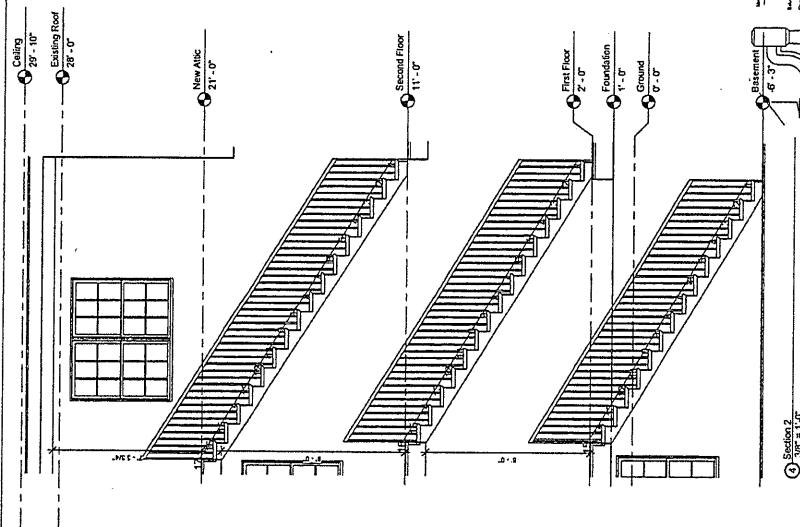
|                       |             |
|-----------------------|-------------|
| Rangel Project Number | 25-087      |
| Date                  | 8/15/2025   |
| Drawn by              | S.R.        |
| Checked by            | Verificador |



## STAIRS DETAIL

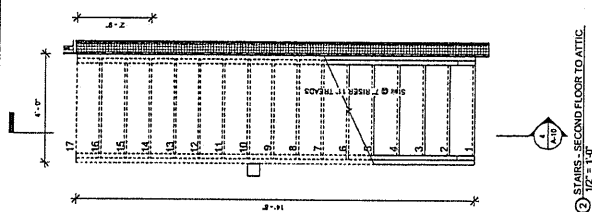


A-10

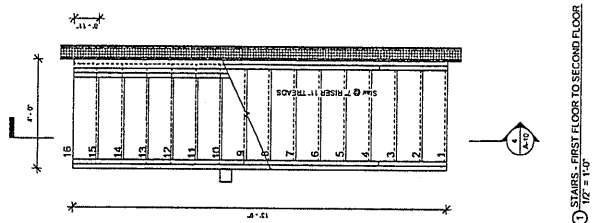


## STAIR DETAIL

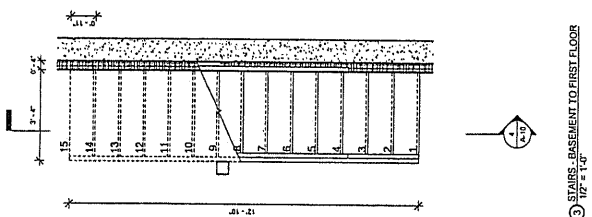
SECTION



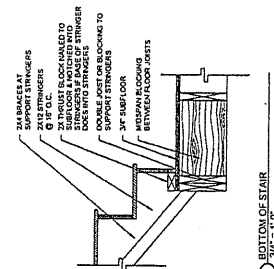
② STAIRS - SECOND FLOOR TO ATTIC  
 $\frac{12"}{12"} = 1'-0"$



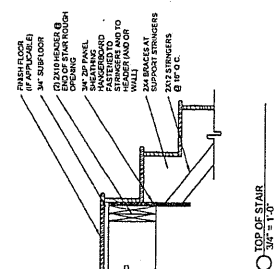
① STAIRS - FIRST FLOOR TO SECOND FLOOR  
1/2" = 1'-0"



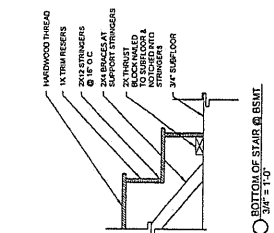
③ STAIRS - BASEMENT TO FIRST FLOOR  
1/2" = 1'-0"



BOTTOM OF STAIR  
3/4" = 1'-0"



TOP OF STAIR  
3/4" = 1'-0"



BOTTOM OF STAIR @ BSMT  
3/4" = 1'-0"



<https://rangelplanningdesign.com/>  
26 NORWOOD STREET,  
EVERETT, MA  
02149  
(339) 440-7943

Stephon Gillings

109 SMITH ROAD  
MILTON, MA

| No. | Description        | Date      |
|-----|--------------------|-----------|
| 1   | SCHEMATIC DESIGN I | 9/15/2025 |
|     |                    |           |
|     |                    |           |
|     |                    |           |

|                       |           |
|-----------------------|-----------|
| Rangel Project Number | 25-087    |
| Date                  | 9/15/2025 |
| Drawn by              | S.R.      |
| Checked by            | J.K.      |



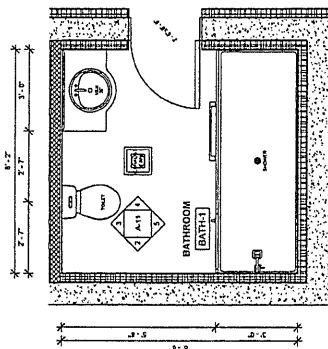
ENLARGED  
BATHROOM

A-11

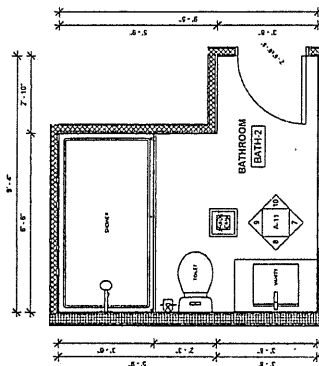
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**ENTRANCE NOTES:**

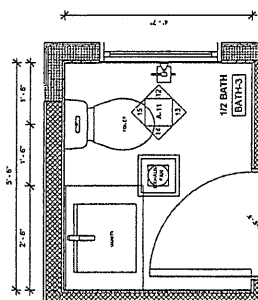
- BATHING AND SHOWER FLOORS AND WALLS ABOVE ENTRANCES WITH INSTALLED SHOWER HEADS AND SHOWER CURTAIN/ROD SHALL BE PROTECTED BY A 4" HIGH, 1" THICK, 6" WIDE, 10' LONG, 1" RATED, 1" SPACING, 1" DIA. METAL RODS. THE RODS SHALL BE INSTALLED TO A HEIGHT OF NOT LESS THAN 6 FEET ABOVE THE FLOOR.
- AROUND SHOWERS, TUBS, WHEREFORS, INSTALL UT. WATER RESISTANT DRYWALL OR EQUAL.
- ALL TB. OF SHOWER ENCLOSURES ARE TO BE GUAED WITH SAFETY GLAZING.
- BATHROOMS AND UTILITY ROOMS ARE TO BE VENTED TO THE OUTSIDE WITH A MINIMUM OF 1" DIA. VENT.
- VENTILATION OF SHOWER ENCLOSURES SHALL BE NOT LESS THAN 1" FROM ADJACENT WALLS/PARTITIONS OR 1" FROM A TUB.
- VENTILATION OF SHOWER ENCLOSURES SHALL BE NOT LESS THAN 1" FROM A TUB.



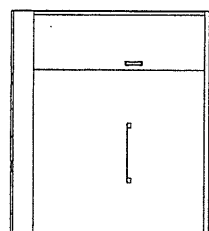
① LEVEL 0 - Callout 1  
 $1/2" = 1'-0"$



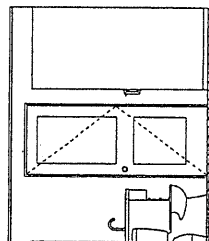
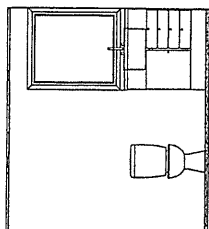
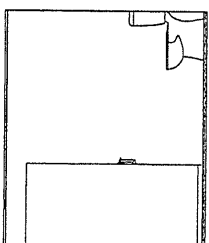
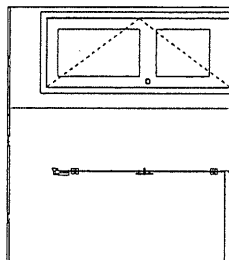
6) LEVEL 1 - Callout 2  
 $\frac{1}{16}'' = 1.6''$



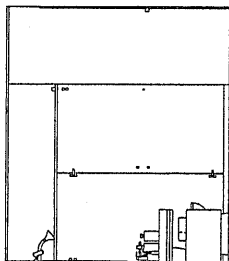
LEVEL 1 - Catout 3



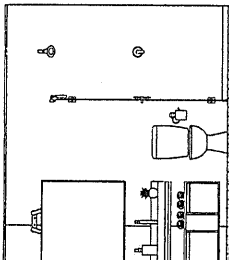
⑤  $\frac{1-d}{12} = 1:0$


$$\textcircled{4} \frac{1-c}{1/2} = 1.0^*$$

$$\textcircled{3} \frac{1-b}{1/2} = 1.0^{\circ}$$

$$\textcircled{2} \frac{1 \cdot a}{1/2} = 1 \cdot 0$$


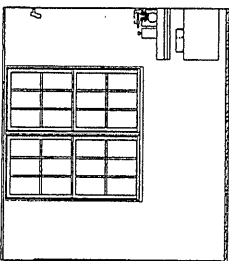
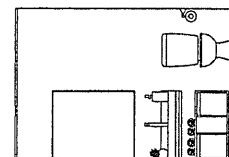
⑩ 2-d



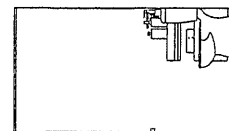
⑨  $\frac{2-c}{10^2-10^3}$



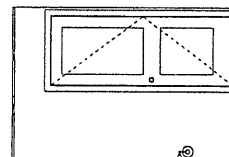
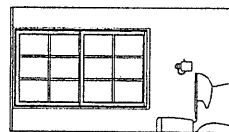
Ⓐ  $\frac{2-b}{10} = 1.0^{\circ}$


$$\textcircled{7} \frac{2-a}{12} = 1.5$$


⑮ 3-d



⑭  $\frac{3-c}{3c-4}$


$$\textcircled{3} \frac{3-b}{12} = 1.0$$

$$\textcircled{12} \frac{3-a}{17} = 1.5$$



TRANGLER ARCHITECTURAL DESIGN, INC.  
25 WOODBURY STREET,  
EVERETT, MA  
(617) 440-7843

Stephon Gillings

109 SMITH ROAD  
MILTON, MA

| No. | Description          | Date       |
|-----|----------------------|------------|
| 1   | SCHEMATIC DESIGN 1   | 02/15/2015 |
| 2   | SCHEMATIC DESIGN 2   | 02/15/2015 |
| 3   | SCHEMATIC DESIGN 3   | 02/15/2015 |
| 4   | SCHEMATIC DESIGN 4   | 02/15/2015 |
| 5   | SCHEMATIC DESIGN 5   | 02/15/2015 |
| 6   | SCHEMATIC DESIGN 6   | 02/15/2015 |
| 7   | SCHEMATIC DESIGN 7   | 02/15/2015 |
| 8   | SCHEMATIC DESIGN 8   | 02/15/2015 |
| 9   | SCHEMATIC DESIGN 9   | 02/15/2015 |
| 10  | SCHEMATIC DESIGN 10  | 02/15/2015 |
| 11  | SCHEMATIC DESIGN 11  | 02/15/2015 |
| 12  | SCHEMATIC DESIGN 12  | 02/15/2015 |
| 13  | SCHEMATIC DESIGN 13  | 02/15/2015 |
| 14  | SCHEMATIC DESIGN 14  | 02/15/2015 |
| 15  | SCHEMATIC DESIGN 15  | 02/15/2015 |
| 16  | SCHEMATIC DESIGN 16  | 02/15/2015 |
| 17  | SCHEMATIC DESIGN 17  | 02/15/2015 |
| 18  | SCHEMATIC DESIGN 18  | 02/15/2015 |
| 19  | SCHEMATIC DESIGN 19  | 02/15/2015 |
| 20  | SCHEMATIC DESIGN 20  | 02/15/2015 |
| 21  | SCHEMATIC DESIGN 21  | 02/15/2015 |
| 22  | SCHEMATIC DESIGN 22  | 02/15/2015 |
| 23  | SCHEMATIC DESIGN 23  | 02/15/2015 |
| 24  | SCHEMATIC DESIGN 24  | 02/15/2015 |
| 25  | SCHEMATIC DESIGN 25  | 02/15/2015 |
| 26  | SCHEMATIC DESIGN 26  | 02/15/2015 |
| 27  | SCHEMATIC DESIGN 27  | 02/15/2015 |
| 28  | SCHEMATIC DESIGN 28  | 02/15/2015 |
| 29  | SCHEMATIC DESIGN 29  | 02/15/2015 |
| 30  | SCHEMATIC DESIGN 30  | 02/15/2015 |
| 31  | SCHEMATIC DESIGN 31  | 02/15/2015 |
| 32  | SCHEMATIC DESIGN 32  | 02/15/2015 |
| 33  | SCHEMATIC DESIGN 33  | 02/15/2015 |
| 34  | SCHEMATIC DESIGN 34  | 02/15/2015 |
| 35  | SCHEMATIC DESIGN 35  | 02/15/2015 |
| 36  | SCHEMATIC DESIGN 36  | 02/15/2015 |
| 37  | SCHEMATIC DESIGN 37  | 02/15/2015 |
| 38  | SCHEMATIC DESIGN 38  | 02/15/2015 |
| 39  | SCHEMATIC DESIGN 39  | 02/15/2015 |
| 40  | SCHEMATIC DESIGN 40  | 02/15/2015 |
| 41  | SCHEMATIC DESIGN 41  | 02/15/2015 |
| 42  | SCHEMATIC DESIGN 42  | 02/15/2015 |
| 43  | SCHEMATIC DESIGN 43  | 02/15/2015 |
| 44  | SCHEMATIC DESIGN 44  | 02/15/2015 |
| 45  | SCHEMATIC DESIGN 45  | 02/15/2015 |
| 46  | SCHEMATIC DESIGN 46  | 02/15/2015 |
| 47  | SCHEMATIC DESIGN 47  | 02/15/2015 |
| 48  | SCHEMATIC DESIGN 48  | 02/15/2015 |
| 49  | SCHEMATIC DESIGN 49  | 02/15/2015 |
| 50  | SCHEMATIC DESIGN 50  | 02/15/2015 |
| 51  | SCHEMATIC DESIGN 51  | 02/15/2015 |
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| 54  | SCHEMATIC DESIGN 54  | 02/15/2015 |
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| 58  | SCHEMATIC DESIGN 58  | 02/15/2015 |
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| 60  | SCHEMATIC DESIGN 60  | 02/15/2015 |
| 61  | SCHEMATIC DESIGN 61  | 02/15/2015 |
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| 73  | SCHEMATIC DESIGN 73  | 02/15/2015 |
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| 79  | SCHEMATIC DESIGN 79  | 02/15/2015 |
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| 84  | SCHEMATIC DESIGN 84  | 02/15/2015 |
| 85  | SCHEMATIC DESIGN 85  | 02/15/2015 |
| 86  | SCHEMATIC DESIGN 86  | 02/15/2015 |
| 87  | SCHEMATIC DESIGN 87  | 02/15/2015 |
| 88  | SCHEMATIC DESIGN 88  | 02/15/2015 |
| 89  | SCHEMATIC DESIGN 89  | 02/15/2015 |
| 90  | SCHEMATIC DESIGN 90  | 02/15/2015 |
| 91  | SCHEMATIC DESIGN 91  | 02/15/2015 |
| 92  | SCHEMATIC DESIGN 92  | 02/15/2015 |
| 93  | SCHEMATIC DESIGN 93  | 02/15/2015 |
| 94  | SCHEMATIC DESIGN 94  | 02/15/2015 |
| 95  | SCHEMATIC DESIGN 95  | 02/15/2015 |
| 96  | SCHEMATIC DESIGN 96  | 02/15/2015 |
| 97  | SCHEMATIC DESIGN 97  | 02/15/2015 |
| 98  | SCHEMATIC DESIGN 98  | 02/15/2015 |
| 99  | SCHEMATIC DESIGN 99  | 02/15/2015 |
| 100 | SCHEMATIC DESIGN 100 | 02/15/2015 |

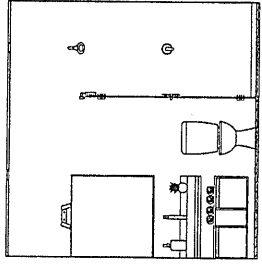
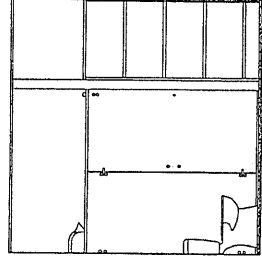
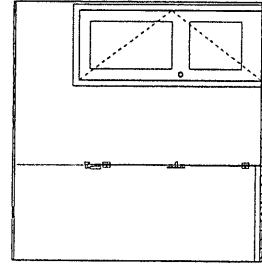
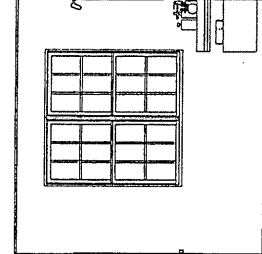
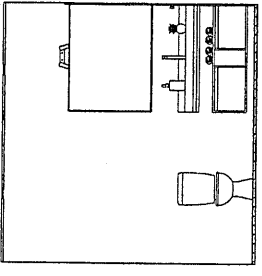
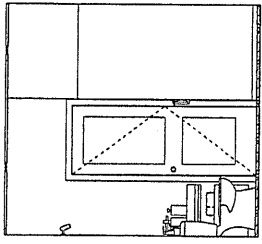
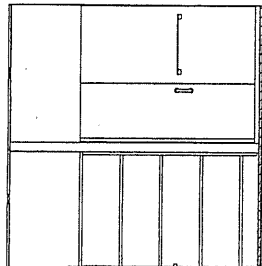
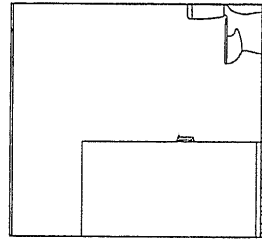
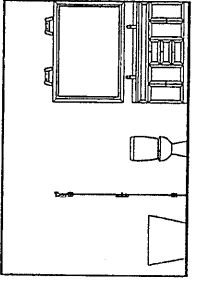
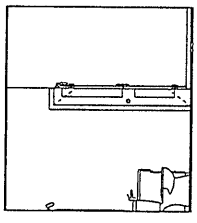
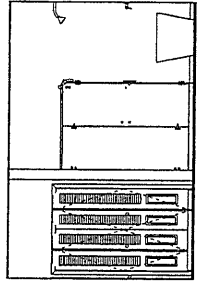
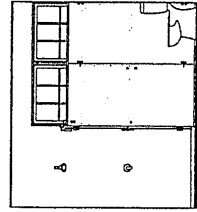
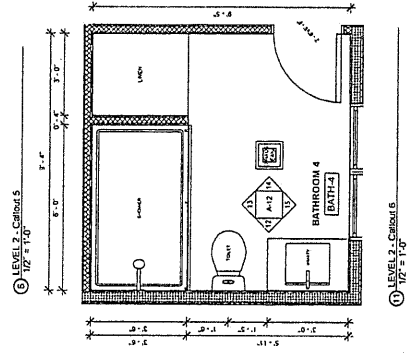
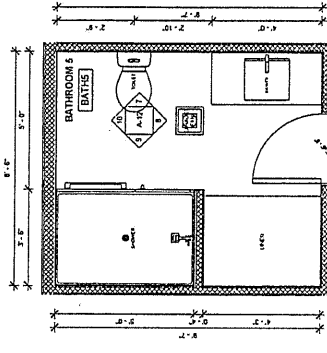
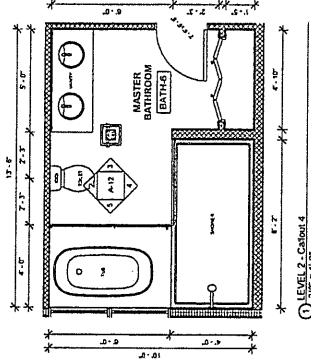


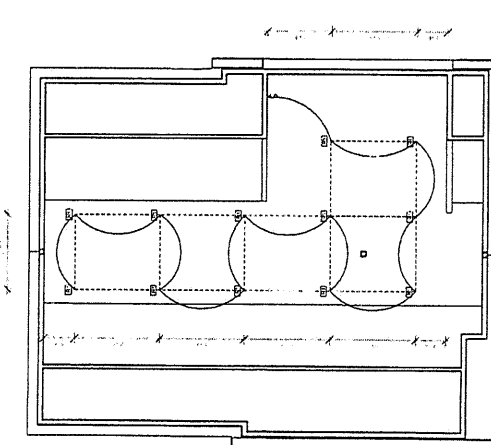
ENLARGED  
BATHROOM

A-12

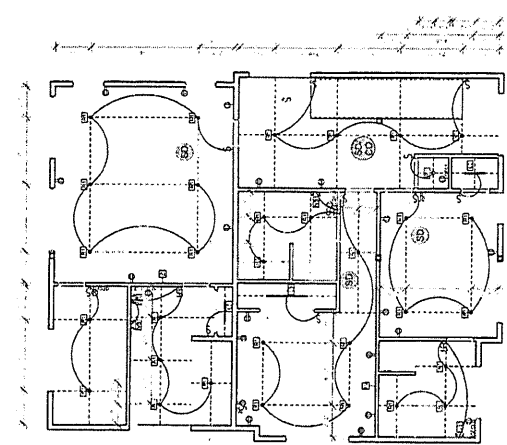
Scale: As Indicated

- BATHROOM NOTES:**
1. TUB AND SHOWER FLOORS AND WALLS ABOVE BATHING WITH INSTALLED SHOWER HEADS AND IN SHOWER COMPARTMENTS SHALL BE FINISHED WITH A WATER RESISTANT SURFACE. WALL SURFACES SHALL EXTEND TO A MINIMUM OF 10" ABOVE THE TUB OR SHOWER HEADS.
  2. AROUND SHOWERS, TUBS, WHIRLS, POOLS, INSTALL 1/2" WATER RESISTANT DRYWALL OR EQUAL.
  3. ALL TUB OR SHOWER ENCLOSURES ARE TO BE GLAZED WITH SAFETY GLAZING.
  4. BATHROOMS AND UTILITY ROOMS ARE TO BE VENTED TO THE OUTSIDE WITH A MINIMUM OF 1/2" VENT PIPE.
  5. THE CENTER LINE OF WATER CLOSET SHALL BE NOT LESS THAN 15" FROM ADJACENT WALLS/PARTITIONS OR 12" FROM A TUB, SHOWER, OR SINK.

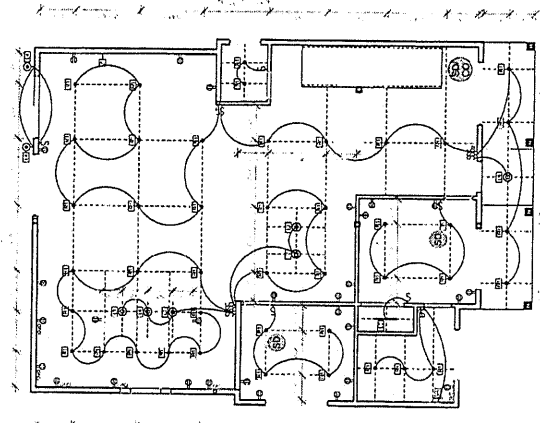




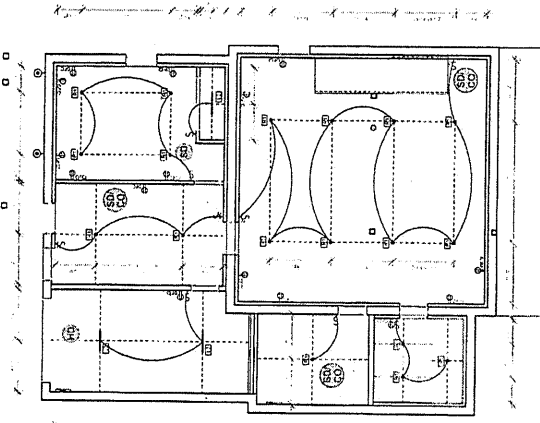
① First Floor  
3/16" = 1'-0"



② Second Floor  
3/16" = 1'-0"



③ Basement  
3/16" = 1'-0"



④ Basement  
3/16" = 1'-0"

**MILTON I.S.D. & FIRE DEPT. SHALL HAVE FINAL APPROVAL OF ALL LIFE-SAFETY COMPONENTS**

**LIFE SAFETY LEGEND:**

SMOKE DETECTORS  
(R312 PG. 67 AMENDED)  
1 IN EACH BEDROOM  
1 IN EACH BATH  
1 NEAR BASE OF EACH STAIRWAY  
1 IN EVERY BASEMENT & WALK UP  
1 FOR EVERY 1,000 SQ. FT.

CARBON MONOXIDE  
(R312 PG. 68 AMENDED)  
1 IN EACH HABITAT STORY OF THE HOUSE  
AND WITHIN 10 FT. OF ALL BEDROOMS.

SMOKE (CARBON MONOXIDE) DETECTOR  
(R312 PG. 67 AMENDED)  
MAY BE USED WHERE SMOKE DETECTORS  
ARE LOCATED PER R312.3

HEAT DETECTOR  
(R312 PG. 68 AMENDED)  
1 NEAR CENTER  
NEAR CENTER

EXHAUST FAN AT BATHROOMS

**ELECTRICAL NOTES:**

NOTE #1: CONTRACTOR TO REVIEW SWITCHING LOCATIONS IN FIELD WITH ARCHITECT PRIOR TO ROUGH WIRING.

NOTE #2: ALL SUSPENDED GYPSUM BOARD CEILINGS TO BE UNITS AS HIGH AS POSSIBLE BELOW MECHANICAL

NOTE #3: SUSPENDED GYP. BOARD CEILINGS SHOULD USE USG WALL-TO-WALL SUSPENSION SYSTEM "DOW" OR EQUAL. SUSPENDED CEILING ACCESS TO HAVE SMOOTH TEXTURE AND PAINT FINISH AS SPECIFIED.

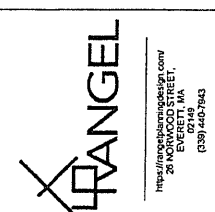
NOTE #4: PLANS GOVERN FOR FIXTURE LOCATION AND TYPE. RE ELECTRICAL FOR FIXTURE LOCATION AND TYPE.

NOTE #5: ALL LIGHT FIXTURE PENETRATIONS AT FLOOR/CEILING JOINTS NEED TO MAINTAIN THE FIRE RATING OF THE CEILING.

NOTE #6: CONNECT ALL SMOKE DETECTORS (SEE PLAN FOR LOCATION) TO HOUSE ELECTRICAL SYSTEM AND INTERCONNECT EACH ONE SO THAT WHEN ONE IS TRIPPED THEY WILL ALL SOUND.

| ELECTRICAL LEGEND |                                                    |
|-------------------|----------------------------------------------------|
|                   | CEILING FAN WITH LIGHT                             |
|                   | TV CONNECTION                                      |
|                   | DATA JACK                                          |
|                   | TELEPHONE JACK                                     |
|                   | GFI PROTECTED OUTLET                               |
|                   | STANDARD 110V OUTLET                               |
|                   | STANDARD 120V OUTLET                               |
|                   | PROGRAMMABLE THERMOSTAT                            |
|                   | LIGHT SWITCH                                       |
|                   | 3-WAY LIGHT SWITCH                                 |
|                   | 4-WAY LIGHT SWITCH                                 |
|                   | CEILING MOUNT RADIANT HEATER                       |
|                   | ELECTRICAL PANEL                                   |
|                   | WALL SCONCE - BATH                                 |
|                   | WALL MOUNTED LIGHT FIXTURE                         |
|                   | FLOOD LIGHT FIXTURE                                |
|                   | 4 ROUND RECESSED LED DOWNLIGHT (TYP.)              |
|                   | 2" WIDE, 2 FT LONG LINEAR LED LIGHT, GENERAL LIGHT |
|                   | 2" WIDE, 4 FT LONG LINEAR LED LIGHT, GENERAL LIGHT |
|                   | CEILING MOUNTED FAN LIGHT                          |
|                   | SMOKE DETECTOR                                     |
|                   | CARBON MONOXIDE DETECTOR                           |
|                   | FIRE EXTINGUISHER (SG CO2 TYPE)                    |
|                   | FIRE EXTINGUISHER (SG ABC TYPE)                    |
|                   | HEAT DETECTOR                                      |
|                   | WALL SMOKE DETECTOR                                |
|                   | CARBON MONOXIDE DETECTOR                           |

○ ELECTRICAL SYMBOL LEGEND  
1/8" = 1'-0"



Stephon Gillings  
109 SMITH ROAD  
MILTON, MA

| No. | Description       | Date      |
|-----|-------------------|-----------|
| 1   | SCHEDULE DESIGN 1 | 9/15/2025 |
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REFLECTED CEILING

A-13

<https://rangeplanningdesign.com/>  
26 NORWOOD STREET,  
EVERETT, MA  
02149  
(339) 440-7943

Stephon Gillings

109 SMITH ROAD  
MILTON, MA

[illegible]

## FOUNDATION PLAN

~~SECRET~~

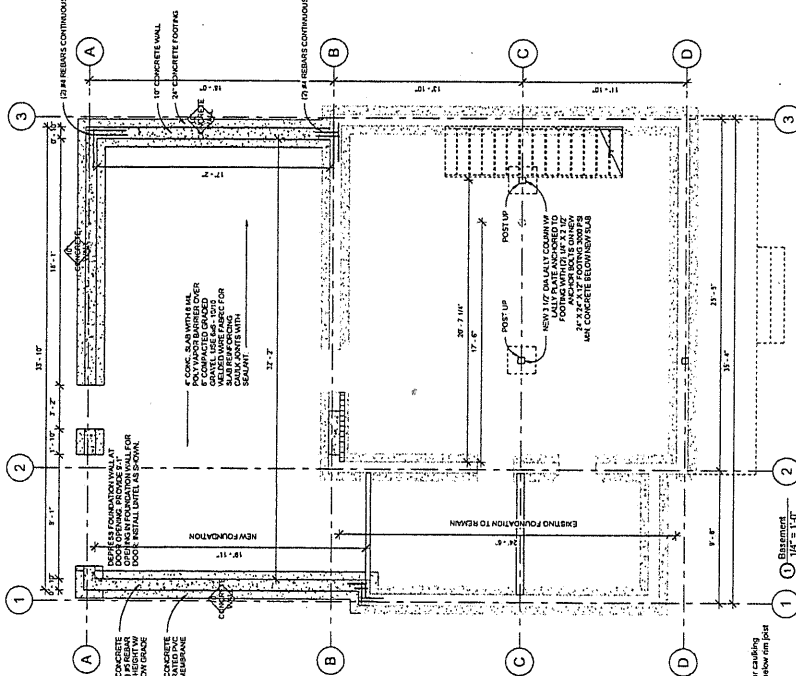
S-01

## FOUNDATION NOTES

- [illegible]

**FOUNDATION NOTES.**

FOUNDATION

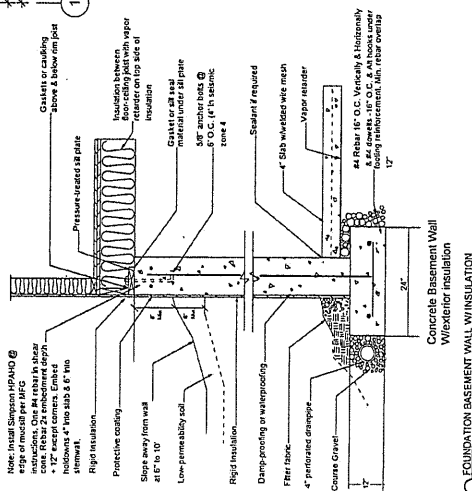


## Foundation Schedule

| Number of Floors Supported By the Foundation | Thickness of Foundation Wall (inches) | Width of Footing (inches) | Thickness of Footing (inches) | Depth Below Undisturbed Ground Surface (inches) |
|----------------------------------------------|---------------------------------------|---------------------------|-------------------------------|-------------------------------------------------|
| 1                                            | 6                                     | 12                        | 6                             | 12                                              |
| 2                                            | 8                                     | 16                        | 7                             | 16                                              |
| 3                                            | 10                                    | 18                        | 8                             | 24                                              |

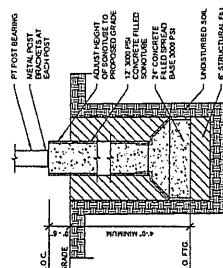
FOUNDATION FOR STUD BEARING WALLS—MIN. REQ.  
Continuous #4 Bars @ Top of Mud Sill Wall and in Footing.

### ATION SCHEDULE

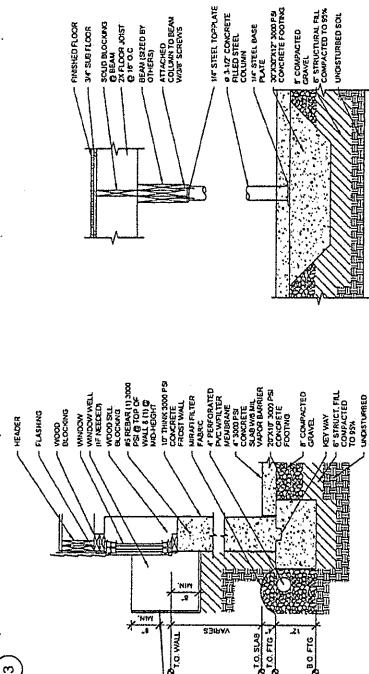


FOUNDATION BASEMENT WALL W/INSULATION

FOUNDA



SPREADSAFE SONOTURE



METAL COLUMN DETAIL

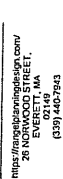
FOUNDATION WALL @ WINDOW

### POST FOOTING DETAIL

**POST FOOTING**







Stephon Gillings

109 SMITH ROAD  
MILTON, MA

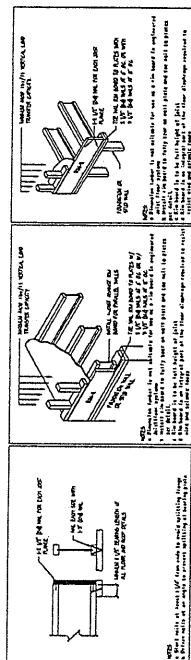
[illegible]

## BEAM DETAILS

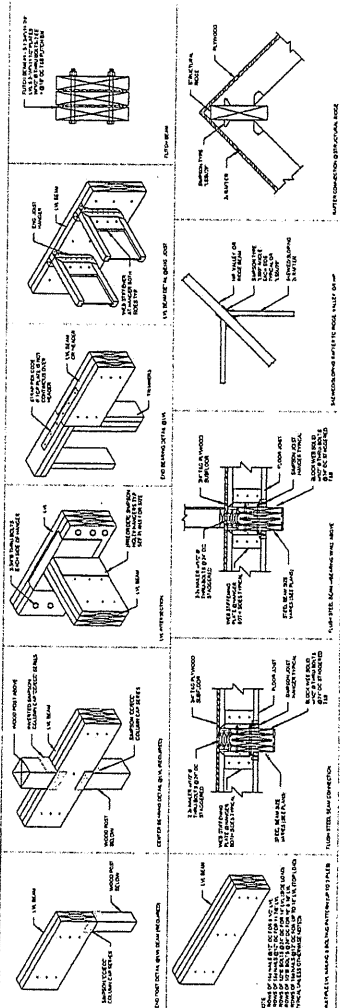
S-03



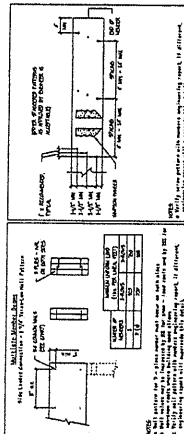
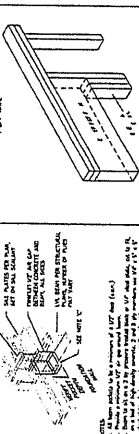
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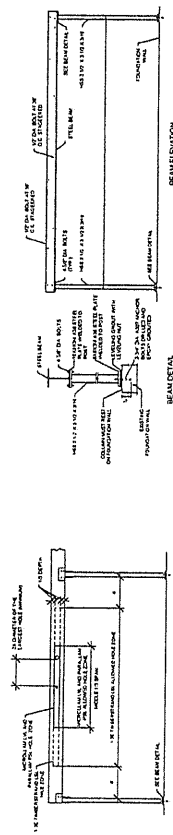
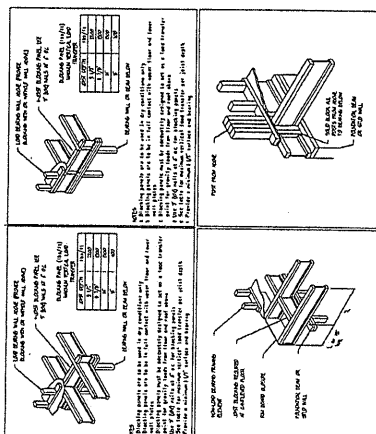
Floor Bracing  
12" = 1'-0"



BEAM DETAILS

TYPICAL LVL HEADER BEARING  
1.3/4" MIN[illegible]

**BEAM DETAIL**



WOOD BEAM

**STEEL BEAM**

Joist Detail  
12" = 1'-0"



http://www.transel.com  
20 RIVER STREET  
EVERETT, MA  
02149  
(617) 440-1943

Stephon Gillings

109 SMITH ROAD  
MILTON, MA

| No. | Description            | Date     |
|-----|------------------------|----------|
| 1   | SCHEMATIC DESIGN       | 03/20/20 |
| 2   | DESIGN DEVELOPMENT     | 05/20/20 |
| 3   | CONSTRUCTION DOCUMENTS | 07/20/20 |
| 4   | AS BUILT               | 09/20/20 |
| 5   | REVISIONS              |          |
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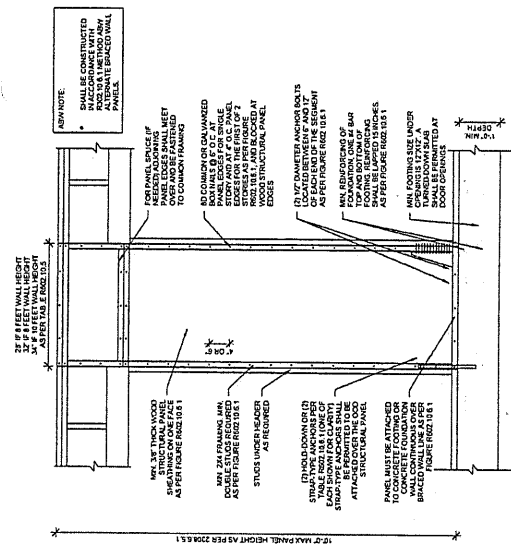


WOOD FRAMING  
AND FASTENING

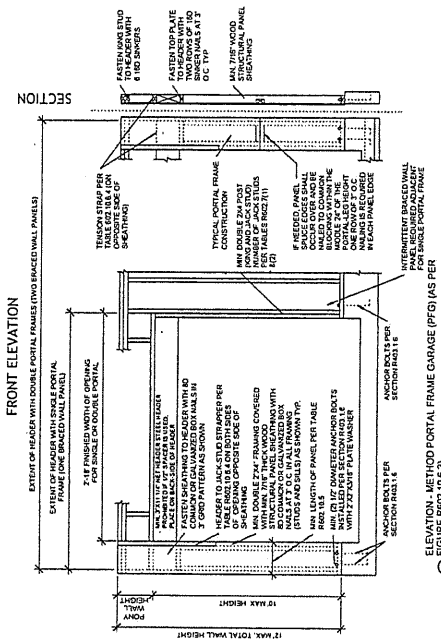


S-04

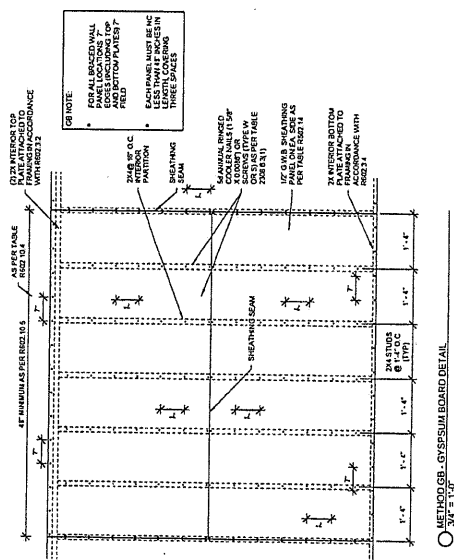
Scale



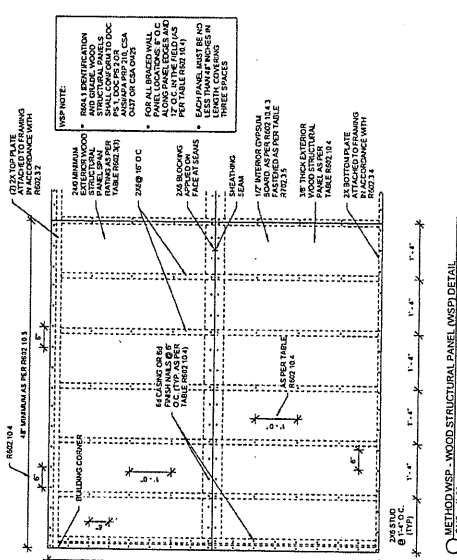
METHOD WSP - WOOD STRUCTURAL PANEL (WSP) DETAIL  
3/4" = 1'-0"



ELEVATION - METHOD PORTAL FRAME GARAGE (PFG) (AS PER  
SECTION 051100 - STRUCTURAL STEEL)  
3/4" = 1'-0"



METHOD GYP - GYPSUM BOARD DETAIL  
3/4" = 1'-0"



METHOD WSP - WOOD STRUCTURAL PANEL (WSP) DETAIL  
3/4" = 1'-0"



https://rangelplanningdesign.com/  
28 HORNWOOD STREET,  
MILTON, MA  
02148  
(339) 440-7943

Stephon Gillings

109 SMITH ROAD  
MILTON, MA

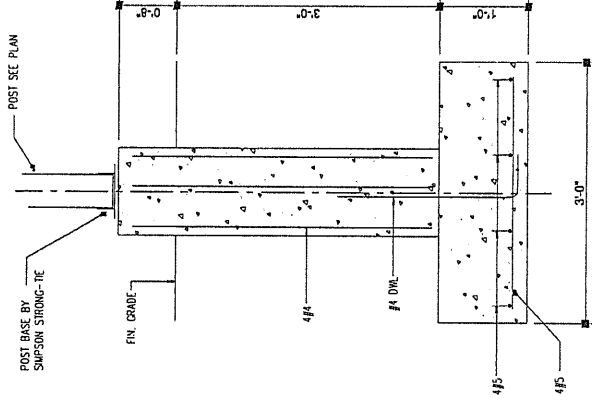
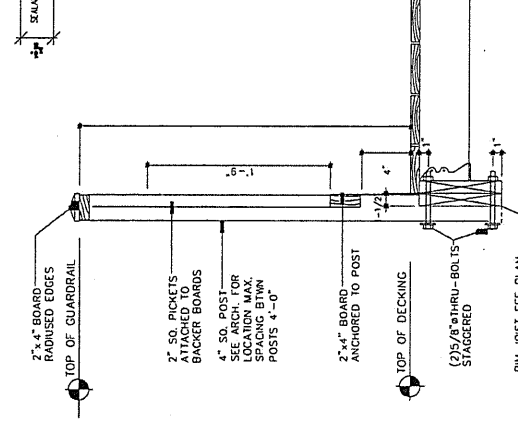
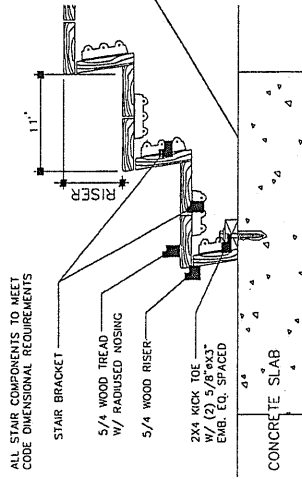
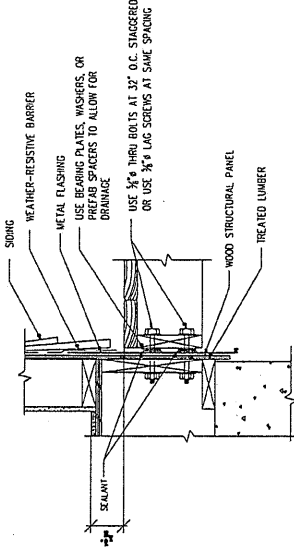
| No. | Description           | Date      |
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| 1   | SCHEMATIC DEVELOPMENT | 9/15/2025 |
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DECK FRAMING



S-05



NOTES: VERIFY ALL DIMENSIONS IN FIELD PRIOR TO FABRICATION AND CONSTRUCTION. ALL EXISTING CONDITIONS TO REMAIN AS IS UNLESS OTHERWISE NOTED

DECK DETAIL  
1/8\"/>

109 SMITH ROAD MILTON, MA

B01

BEAM AT BASEMENT CEILING

Date: 10/03/25

Selection

(2) 1-3/4x 11-7/8 1.9E TJ Microllam LVL Lu = 0.0 Ft

Conditions

NDS 2018

Min Bearing Area R1= 6.3 in<sup>2</sup> R2= 6.3 in<sup>2</sup> (1.5) DL Defl= 0.07 in

Data

|                |         |                 |           |               |        |
|----------------|---------|-----------------|-----------|---------------|--------|
| Beam Span      | 8.6 ft  | Reaction 1 LL   | 3096 #    | Reaction 2 LL | 3096 # |
| Beam Wt per ft | 10.68 # | Reaction 1 TL   | 4690 #    | Reaction 2 TL | 4690 # |
| Bm Wt Included | 92 #    | Maximum V       | 4690 #    |               |        |
| Max Moment     | 10083 # | Max V (Reduced) | 3611 #    |               |        |
| TL Max Defl    | L / 240 | TL Actual Defl  | L / 611   |               |        |
| LL Max Defl    | L / 360 | LL Actual Defl  | L / >1000 |               |        |

Attributes

|          | Section (in <sup>3</sup> ) | Shear (in <sup>2</sup> ) | TL Defl (in) | LL Defl |
|----------|----------------------------|--------------------------|--------------|---------|
| Actual   | 82.26                      | 41.56                    | 0.17         | 0.10    |
| Critical | 46.47                      | 19.00                    | 0.43         | 0.29    |
| Status   | OK                         | OK                       | OK           | OK      |
| Ratio    | 56%                        | 46%                      | 39%          | 33%     |

Values

|                  | Fb (psi) | Fv (psi) | E (psi x mil) | Fc <sub>L</sub> (psi) |
|------------------|----------|----------|---------------|-----------------------|
| Reference Values | 2600     | 285      | 1.9           | 750                   |
| Adjusted Values  | 2604     | 285      | 1.9           | 750                   |

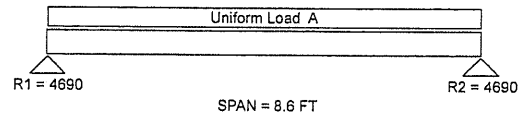
Adjustments

|                 |        |           |              |      |
|-----------------|--------|-----------|--------------|------|
| CF Size Factor  | 1.001  |           |              |      |
| Cd Duration     | 1.00   | 1.00      |              |      |
| Cr Repetitive   | 1.00   |           |              |      |
| Ch Shear Stress |        | N/A       |              |      |
| Cm Wet Use      | 1.00   | 1.00      | 1.00         | 1.00 |
| CI Stability    | 1.0000 | Rb = 0.00 | Le = 0.00 Ft |      |

Loads

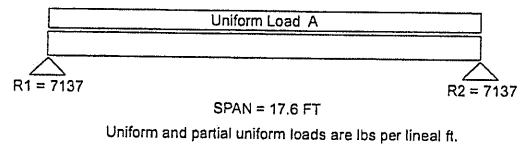
Uniform LL: 720

Uniform TL: 1080 = A

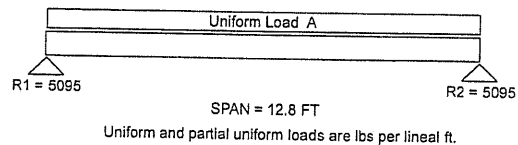


Uniform and partial uniform loads are lbs per lineal ft.

|                                                        |                                                                                                                     |             |                 |                                   |                  |        |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------|-----------------|-----------------------------------|------------------|--------|
| BeamChek v2023 licensed to: Rangel Planning and Design |                                                                                                                     |             |                 |                                   | Reg # 3145-69077 |        |
| 109 SMITH ROAD MILTON, MA                              |                                                                                                                     |             | B02             |                                   |                  |        |
| BEAM AT BASEMENT CEILING                               |                                                                                                                     |             | Date: 10/03/25  |                                   |                  |        |
| <u>Selection</u>                                       | W 8x 31 50 ksi Wide Flange Steel                                                                                    |             |                 | Lateral Support: Lc = 7.2 ft max. |                  |        |
| <u>Conditions</u>                                      | Actual Size is 8 x 8 in.<br>Min Bearing Length R1= 0.9 in. R2= 0.9 in. (1.0) DL Defl= 0.20 in Recom Camber= 0.29 in |             |                 |                                   |                  |        |
| <u>Data</u>                                            | Beam Span                                                                                                           | 17.6 ft     | Reaction 1 LL   | 4576 #                            | Reaction 2 LL    | 4576 # |
|                                                        | Beam Wt per ft                                                                                                      | 31.0 #      | Reaction 1 TL   | 7137 #                            | Reaction 2 TL    | 7137 # |
|                                                        | Bm Wt Included                                                                                                      | 546 #       | Maximum V       | 7137 #                            |                  |        |
|                                                        | Max Moment                                                                                                          | 31402 #     | Max V (Reduced) | N/A                               |                  |        |
|                                                        | TL Max Defl                                                                                                         | L / 240     | TL Actual Defl  | L / 385                           |                  |        |
|                                                        | LL Max Defl                                                                                                         | L / 360     | LL Actual Defl  | L / 601                           |                  |        |
| <u>Attributes</u>                                      | Section (in²)                                                                                                       | Shear (in²) | TL Defl (in)    | LL Defl                           |                  |        |
| Actual                                                 | 27.50                                                                                                               | 2.28        | 0.55            | 0.35                              |                  |        |
| Critical                                               | 11.42                                                                                                               | 0.36        | 0.88            | 0.59                              |                  |        |
| Status                                                 | OK                                                                                                                  | OK          | OK              | OK                                |                  |        |
| Ratio                                                  | 42%                                                                                                                 | 16%         | 62%             | 60%                               |                  |        |
| <u>Values</u>                                          |                                                                                                                     | Fb (psi)    | Fv (psi)        | E (psi x mil)                     |                  |        |
|                                                        | Ref. Value Fy                                                                                                       | 50000       | 50000           | 29.0                              |                  |        |
|                                                        | Adjusted Values                                                                                                     | 33000       | 20000           | 29.0                              |                  |        |
| <u>Adjustments</u>                                     | YP Factor, Lc                                                                                                       | 0.66        | 0.40            |                                   |                  |        |
|                                                        |                                                                                                                     |             |                 |                                   |                  |        |
|                                                        |                                                                                                                     |             |                 |                                   |                  |        |
| <u>Loads</u>                                           | Uniform LL: 520                                                                                                     |             |                 | Uniform TL: 780 = A               |                  |        |



|                                                        |                                                                 |             |                     |              |               |                  |  |
|--------------------------------------------------------|-----------------------------------------------------------------|-------------|---------------------|--------------|---------------|------------------|--|
| BeamChek v2023 licensed to: Rangel Planning and Design |                                                                 |             |                     |              |               | Reg # 3145-69077 |  |
| 109 SMITH ROAD MILTON, MA                              |                                                                 |             | B03                 |              |               |                  |  |
| BEAM AT FIRST FL CEILING                               |                                                                 |             | Date: 10/03/25      |              |               |                  |  |
| Selection                                              | (3) 1-3/4x 11-7/8 1.9E TJ Microlam LVL                          |             |                     |              | Lu = 0.0 Ft   |                  |  |
| Conditions                                             | NDS 2018                                                        |             |                     |              |               |                  |  |
|                                                        | Min Bearing Area R1= 6.8 in² R2= 6.8 in² (1.5) DL Defl= 0.18 in |             |                     |              |               |                  |  |
| Data                                                   | Beam Span                                                       | 12.8 ft     | Reaction 1 LL       | 3328 #       | Reaction 2 LL | 3328 #           |  |
|                                                        | Beam Wt per ft                                                  | 16.02 #     | Reaction 1 TL       | 5095 #       | Reaction 2 TL | 5095 #           |  |
|                                                        | Bm Wt Included                                                  | 205 #       | Maximum V           | 5095 #       |               |                  |  |
|                                                        | Max Moment                                                      | 16302 #     | Max V (Reduced)     | 4307 #       |               |                  |  |
|                                                        | TL Max Defl                                                     | L / 240     | TL Actual Defl      | L / 380      |               |                  |  |
|                                                        | LL Max Defl                                                     | L / 360     | LL Actual Defl      | L / 682      |               |                  |  |
| Attributes                                             | Section (in²)                                                   | Shear (in²) | TL Defl (in)        | LL Defl      |               |                  |  |
|                                                        | Actual                                                          | 123.39      | 62.34               | 0.40         | 0.23          |                  |  |
|                                                        | Critical                                                        | 75.14       | 22.67               | 0.64         | 0.43          |                  |  |
|                                                        | Status                                                          | OK          | OK                  | OK           | OK            |                  |  |
|                                                        | Ratio                                                           | 61%         | 36%                 | 63%          | 53%           |                  |  |
|                                                        | Fb (psi)                                                        | Fv (psi)    | E (psi x mil)       | Fc⊥ (psi)    |               |                  |  |
| Values                                                 | Reference Values                                                | 2600        | 285                 | 1.9          | 750           |                  |  |
|                                                        | Adjusted Values                                                 | 2604        | 285                 | 1.9          | 750           |                  |  |
| Adjustments                                            | CF Size Factor                                                  | 1.001       |                     |              |               |                  |  |
|                                                        | Cd Duration                                                     | 1.00        | 1.00                |              |               |                  |  |
|                                                        | Cr Repetitive                                                   | 1.00        |                     |              |               |                  |  |
|                                                        | Ch Shear Stress                                                 |             | N/A                 |              |               |                  |  |
|                                                        | Cm Wet Use                                                      | 1.00        | 1.00                | 1.00         | 1.00          |                  |  |
|                                                        | Cl Stability                                                    | 1.0000      | Rb = 0.00           | Le = 0.00 Ft |               |                  |  |
| Loads                                                  | Uniform LL: 520                                                 |             | Uniform TL: 780 = A |              |               |                  |  |



109 SMITH ROAD MILTON, MA

B04

BEAM AT FIRST FL CEILING

Date: 10/03/25

Selection W 12x 79 50 ksi Wide Flange Steel

Lateral Support: Lc = 10.8 ft max.

Conditions Actual Size is 12-1/8 x 12-3/8 in.

Min Bearing Length R1= 1.4 in. R2= 1.4 in. (1.0) DL Defl= 0.32 in Recom Camber= 0.47 in

Data

|                |          |                 |         |               |         |
|----------------|----------|-----------------|---------|---------------|---------|
| Beam Span      | 28.0 ft  | Reaction 1 LL   | 10080 # | Reaction 2 LL | 10080 # |
| Beam Wt per ft | 79.0 #   | Reaction 1 TL   | 16226 # | Reaction 2 TL | 16226 # |
| Bm Wt Included | 2212 #   | Maximum V       | 16226 # |               |         |
| Max Moment     | 113582 # | Max V (Reduced) | N/A     |               |         |
| TL Max Defl    | L / 240  | TL Actual Defl  | L / 403 |               |         |
| LL Max Defl    | L / 360  | LL Actual Defl  | L / 649 |               |         |

Attributes

|          | Section (in <sup>2</sup> ) | Shear (in <sup>2</sup> ) | TL Defl (in) | LL Defl |
|----------|----------------------------|--------------------------|--------------|---------|
| Actual   | 107.00                     | 5.82                     | 0.83         | 0.52    |
| Critical | 41.30                      | 0.81                     | 1.40         | 0.93    |
| Status   | OK                         | OK                       | OK           | OK      |
| Ratio    | 39%                        | 14%                      | 60%          | 55%     |

Values

|                 | Fb (psi) | Fv (psi) | E (psi x mil) |
|-----------------|----------|----------|---------------|
| Ref. Value Fy   | 50000    | 50000    | 29.0          |
| Adjusted Values | 33000    | 20000    | 29.0          |

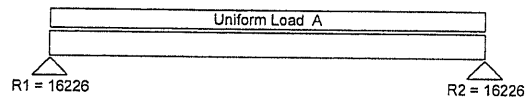
Adjustments

|               |      |      |  |
|---------------|------|------|--|
| VP Factor, Lc | 0.66 | 0.40 |  |
|               |      |      |  |
|               |      |      |  |

Loads

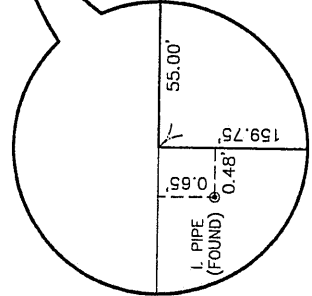
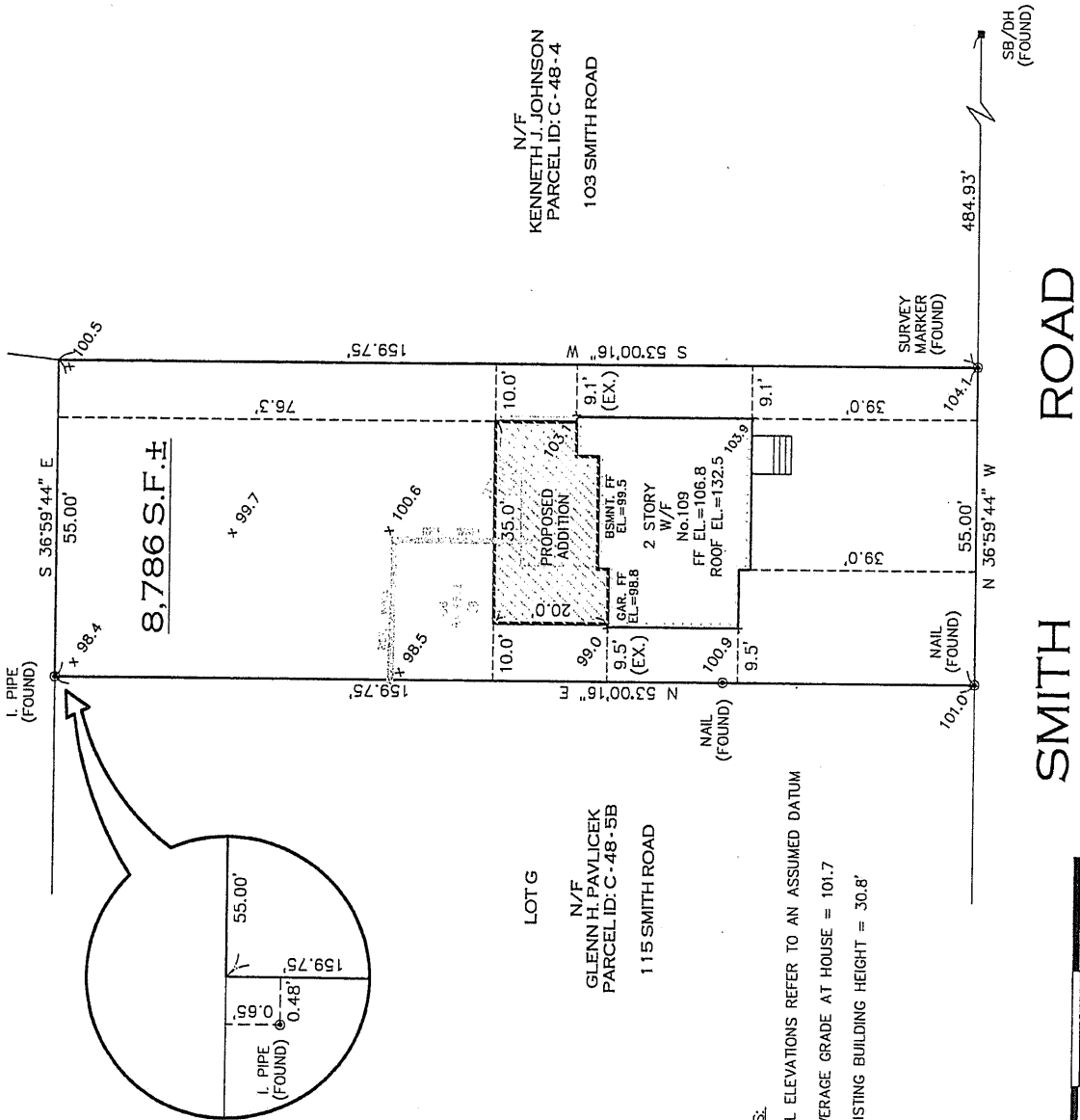
Uniform LL: 720

Uniform TL: 1080 = A



SPAN = 28 FT

Uniform and partial uniform loads are lbs per lineal ft.



LOT G

N/F  
GLENN H. PAVLICEK  
PARCEL ID: C-48-5B  
115 SMITH ROAD

N/F  
KENNETH J. JOHNSON  
PARCEL ID: C-48-4  
103 SMITH ROAD

- NOTES:
- 1) ALL ELEVATIONS REFER TO AN ASSUMED DATUM
  - 2) AVERAGE GRADE AT HOUSE = 101.7
  - 3) EXISTING BUILDING HEIGHT = 30.8'



PLOT PLAN  
SHOWING  
PROPOSED ADDITION  
AT  
109 SMITH ROAD  
IN  
MILTON, MASS.

PREPARED BY:  
NEPONSET VALLEY SURVEY ASSOC., INC.  
95 WHITE STREET  
QUINCY, MA 02169

SCALE: 1"=20'  
DATE: SEPTEMBER 22, 2025  
SHEET 1 OF 1