

HEBRON ELEMENTARY SCHOOL
RE-ROOFING PROJECT
ADDENDUM NO. 1
MARCH 18, 2024

**The Hebron Public Building Committee
On Behalf of
The Town of Hebron
And
Hebron Board of Education**

**GILEAD HILL ELEMENTARY SCHOOL
RE-ROOFING PROJECT
PROJECT 2024-07**

ADDENDUM NO. 1

MARCH 18, 2024

Each Respondent must acknowledge receipt of this Addendum by inserting its number within the cover letter of the Request for Qualifications (RFQ) submission. Failure to do so may result in the Respondent's disqualification.

This Addendum consists of six (6) Pages.

Appended to and made part of this Addendum are the following documents:

Architectural Drawings-Seventeen (17) Drawings
Structural Drawings-Eleven (11) Drawings
Structural SK-Drawings-Three (3) Pages
Nuclear Backscatter Inspection Report-March 11, 2020-Twenty-Three (23) Pages
Sketch-Re-Roofing-Current Proposed Areas of Restoration-Corrected to Depict a Missed Area- One (1) Page
Non-Mandatory Pre-Submission Meeting and Site Tour-Sign-In Sheet-one (1) page.

A. General Clarifications

- a. Non-Mandatory Pre-Submission Meeting and Site Tour-Sign-In Sheet is attached-one (1) page.

B. Clarifications and Additions to the RFQ.

- a. **RFQ-Two Separate Submissions**-Pursuant to Connecticut State Statute CGS 10-287 (b) (2) and (4) and the direction provided by the Office School Construction and Grants and Review (OSCG &R) the Request for

Qualification submissions must be submitted as two separate documents for each school and cannot be combined.

- b. Square Footage of Building and Estimated Square Footage of Roof Replacement-**The approximate gross square footage of the building is 68,000 +/- and the approximate square footage of the roof replacement is 50,000 +/-.
- c. Slight Error in Graphic Depiction of Scope of Roof Replacement-**The colored sketch that was included in the initial RFQ inadvertently omitted showing that the roofing over two kindergarten classrooms and the adjoining rooms are part of the scope of work. Included in this Addendum is a revised sketch that addresses this matter.
- d. Schedule-**The RFQ indicates that the schedule for both roofs is to have them replaced during the Summer of 2025. However, there are several significant logistical challenges that the Town and Board of Education are in the process of working on. One major factor is that the Parks and Recreation Department utilizes both schools during the summer months. There is a strong possibility that the roof replacement at the Hebron Elementary School will occur during the summer of 2025 and the roof replacement at the Gilead Hill will occur during the summer of 2026. In any case, the Town and Board of Education would still want the Architect(s) to secure approval for both schools from OSCG & R well in advance of the summer of 2025. The RFP (Fee Proposal) will clearly indicate what the schedule will be for the roof replacements at the schools.
- e. OSCG & R Required Documents-**When the RFQ was drafted it attempted to identify all the required steps, documentation, and submissions that OSCG & R will be required by the Architect(s). The Architect(s) will be responsible for providing all work that will be necessary and as required by the OSCG & R.

C. Pre-Submission Meeting and Site Tour-Questions and Answers

- a. Q-1-Reports-***The RFQ references a “roof report,” however there does not appear to be anything included in it.*
A-1. The report was inadvertently omitted from the RFQ. It is appended and made part of this Addendum and is entitled “Nuclear Backscatter Inspection Report that is dated March 11, 2020.
- b. Q-2-Architectural Drawings-***Are there any relevant architectural drawings that can be made available?*
A-2-Yes, appended and made part of this Addendum are seventeen (17) architectural drawings.

- c. **Q-3.- Structural Drawings**-Are there any relevant structural drawings that can be made available?

A-2-Yes, appended and made part of this Addendum are eleven (11) structural drawings and three (3) SK Drawings.

D. Submission Meeting and Site Tour-Questions and Answers

- a. **Q-4-Environmental/Hazardous Materials Consultant/Hygienist**-The RFQ indicates that the Architects should include the services of an Environmental/Hazardous Materials /Consultant/Hygienist. Please confirm what the expected scope of services this subconsultant is expected to provide.

A-4-The purpose for that specialist would be to;1-conduct pre-roofing and post-roofing indoor air quality test samples-this would help the BOE to dispel any assertions that the indoor air quality is not good after the roofing has been completed; 2-identify during the pre-construction any suspected mold and/or mildew that is detected above and below the suspending acoustical ceilings and provide a plan on to address it; 3- identify during the pre-construction any suspected hazardous materials above the ceilings such as asbestos pipe insulation that will need to be abated, i.e., the Gilead Hill School 1967 original section of the building is most likely place that this could be encountered.

- b. **Q-5-The afore-listed scope of services would be rather difficult to quantify and therefore assemble a cost to be included in the RFP Fee submission.**

A-5-Agreed. When the RFP is issued, it will indicate a dollar amount allowance to include for the work of the Environmental/Hazardous Materials Consultant/Hygienist.

- c. **Q-6- Test Cuts in Roofing System**-The RFQ indicates that the Architect should include the cost of performing a number of test cuts through the existing roofs. That would be rather difficult to quantify and therefore assemble a cost to be included in the RFP Fee submission.

A-6- Agreed. When the RFP is issued, it will indicate a dollar amount allowance to include for the work related to performing the necessary test cuts in the roofing.

- d. **Q-7-Infrared (IR) Thermal Imaging and Thermo Scans**-The RFQ indicates that the Architects should include "infrared (IR) thermal imaging, thermos-scans, etc. to determine any unforeseen conditions that need to be addressed." That would be rather difficult to quantify and therefore assemble a cost to be included in the RFP Fee submission.

A-7- Agreed. When the RFP is issued, it will indicate a dollar amount allowance to include for the work related to performing the necessary work related to the Infrared (IR) Thermal Imaging and Thermo Scans.

- e. **Q-8-Recoating the Sarnafil Roofs-** *In the RFQ it is requested that the Architects provide an analysis of "1-Recoat existing Sarnafil Roofs and 2- Remove existing membrane and top course of insulation and replace with new insulation and new membrane." Is this analysis going to be required.*

A-8-Delete these paragraphs in reference to providing an analysis of recoating the existing Sarnafil Roofs from the RFQ in their entirety.

- f. **Q-9-Structural As-Built Drawings and Shop Drawings-***The RFQ's require a Structural Engineer to review structural implications of the roof design. Does the Town have existing as-built structural drawings?*
- g. **A-9-There are no structural as-built drawings and no structural shop drawings available for either school. As a result, the review of the structural implications of the new roofing system will need to be conducted based on the structural drawings that have been made part of this RFQ and appended and made part of this Addendum. Some of those documents which are either PDF or some other similar type files have been generated from AutoCAD files that are over 20 years old. They are provided for your reference only and should not be considered 'as-built' documents. They may contain inaccuracies and must be verified against the existing conditions.**
- h. **Q-10-Registered Roof Consultant (RRC)-** *The RFQ indicates that the Architect must carry the services of a "Registered Roof Consultant." Please reconsider this requirement.*
- A-10-After considerable deliberations and discussions, it has been decided that the inclusion of these services will not be necessary.**
- i. **Q-11-Roof Maintenance and Repairs Vendor-***Do the Schools have a vendor that provides maintenance and repairs on the roofs? If so, who is the firm and may we contact them if we have questions?*
- A-11-Yes, the Schools has retained Eagle Revit to perform maintenance and repairs and all proposers can feel free to contact them if they have any questions.**
- j. **Q-12-Environmental Hygienist-***Do the Schools have an Environmental Hygienist that has performed work them for them? If so, who is the firm and may we contact them if we have any questions?*

A-12-The firms is Mystic Air and all proposers can feel free to contact them if they have any questions.

- k. **Q-13-List of Subconsultants-In our RFQ submission should we list all of the subconsultants that we intend on making part of our design team?**

A-13-Yes. As per the RFQ, it is imperative that you include all of the names of the firms that you intend on having as part of your design team.

The following list of drawings which are appended to this RFQ as either PDF's or some other similar type files. Some have been generated from AutoCAD files that are over 20 years old and some are 58 years old that are only scanned copies of the original drawings. They are provided for your reference only and should not be considered 'as-built' documents. They may contain inaccuracies and must be verified against the existing conditions.

ARCHITECTURAL DRAWINGS

The following drawings issued by CJ Lawler Associates were originally dated 12/1/98 with a revision date of 4/30/1998.

<u>DRAWING NO.</u>	<u>DESCRIPTION</u>
R1.1	Reference Floor Plan
A1.1	Partial Floor Plan Area A
A1.2	Partial Floor Plan Area B
A1.3	Partial Floor Plan Area C
A3.1	Roof Plan
A3.2	Roof Details
A4.3	Building Sections
A4.4	Building Sections
A4.5	Building Sections
A7.1	Section Details
A7.2	Section Details
A7.3	Section Details
A7.4	Section Details
A7.5	Wall Details
A7.6	Section Details
A7.7	Section Details
A7.8	Section Details

STRUCTURAL DRAWINGS

The following drawings issued by CJ Lawler Associates were originally dated 12/1/98 with a revision date of 4/30/1998.

<u>DRAWING NO.</u>	<u>DESCRIPTION</u>
S2.1	Roof Framing Plan Area A
S2.2	Roof Framing Plan Area B
S4.1	Framing Section
S4.2	Framing Section
S5.1	Column Schedule
S6.1	Typical Structural Details
S6.2	Typical Structural Details

The following drawings issued by Chandler & Palmer are dated 11/3/1966 and reflect the original construction of the Gilead Hill Elementary School.

<u>DRAWING NO.</u>	<u>DESCRIPTION</u>
7 of 24	Roof Structural Drawing
8 of 24	Wall Sections
9 of 24	Wall Sections
10 of 24	Wall Sections

SK-DRAWINGS

<u>DRAWING NO.</u>	<u>DESCRIPTION</u>	<u>DATE</u>
SSK-01	Part Plan-Firewall Const. Corridor 69 Exist. Bldg.	5-4-99
SSK-02	Part Plan-Firewall Const. Corridor 69 Exist. Bldg.	5-4-99
SSK-03	Part Plan-Firewall Const. Main Lobby 01 Exist, Bldg.	5-4-99

END OF ADDENDUM NO. 1



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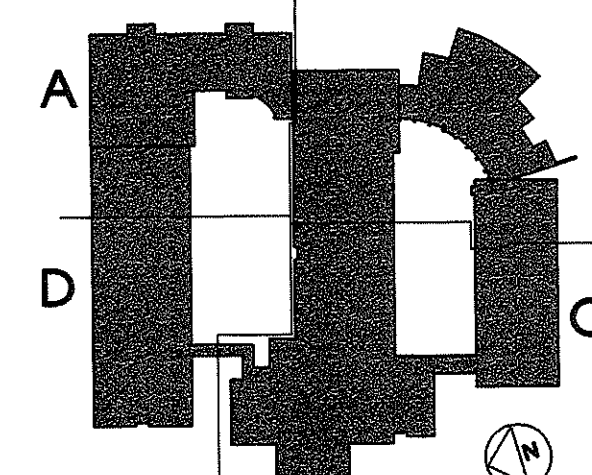
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KEY PLAN - NOT TO SCALE

No.	Description	Date
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Revisions		

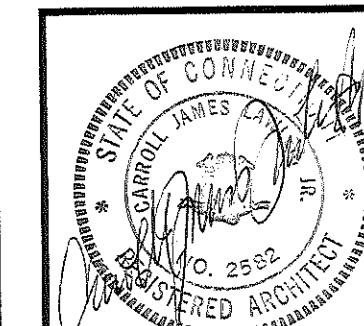
REFERENCE FLOOR PLAN

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Date: 12/1/98 Checked By: JE

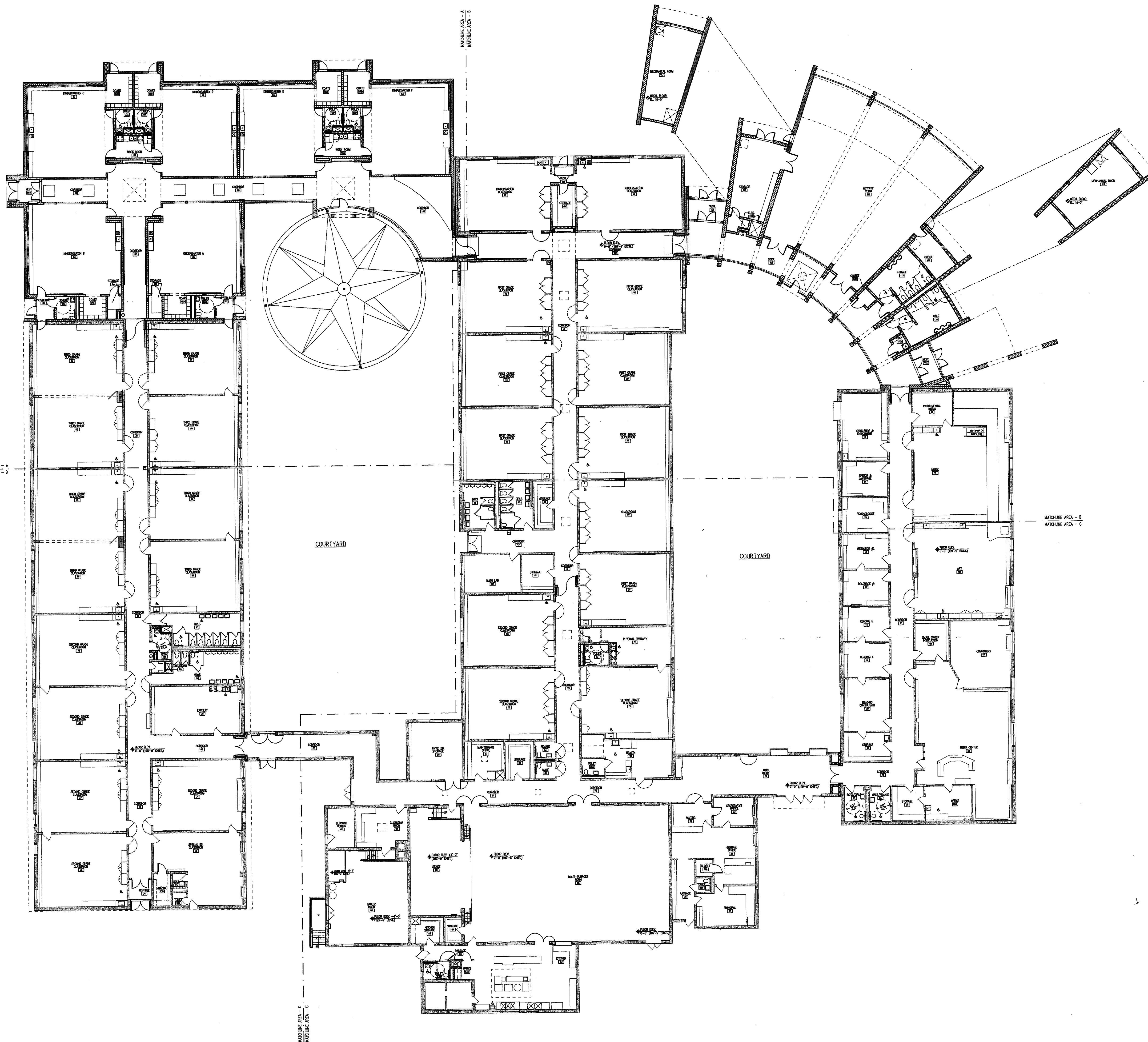
**Gilead Hill
Elementary School**
Hebron, Connecticut

**Additions and
Renovations**

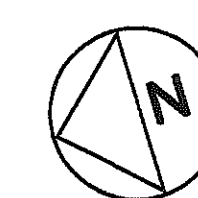
State Project Number
#067-030-EA

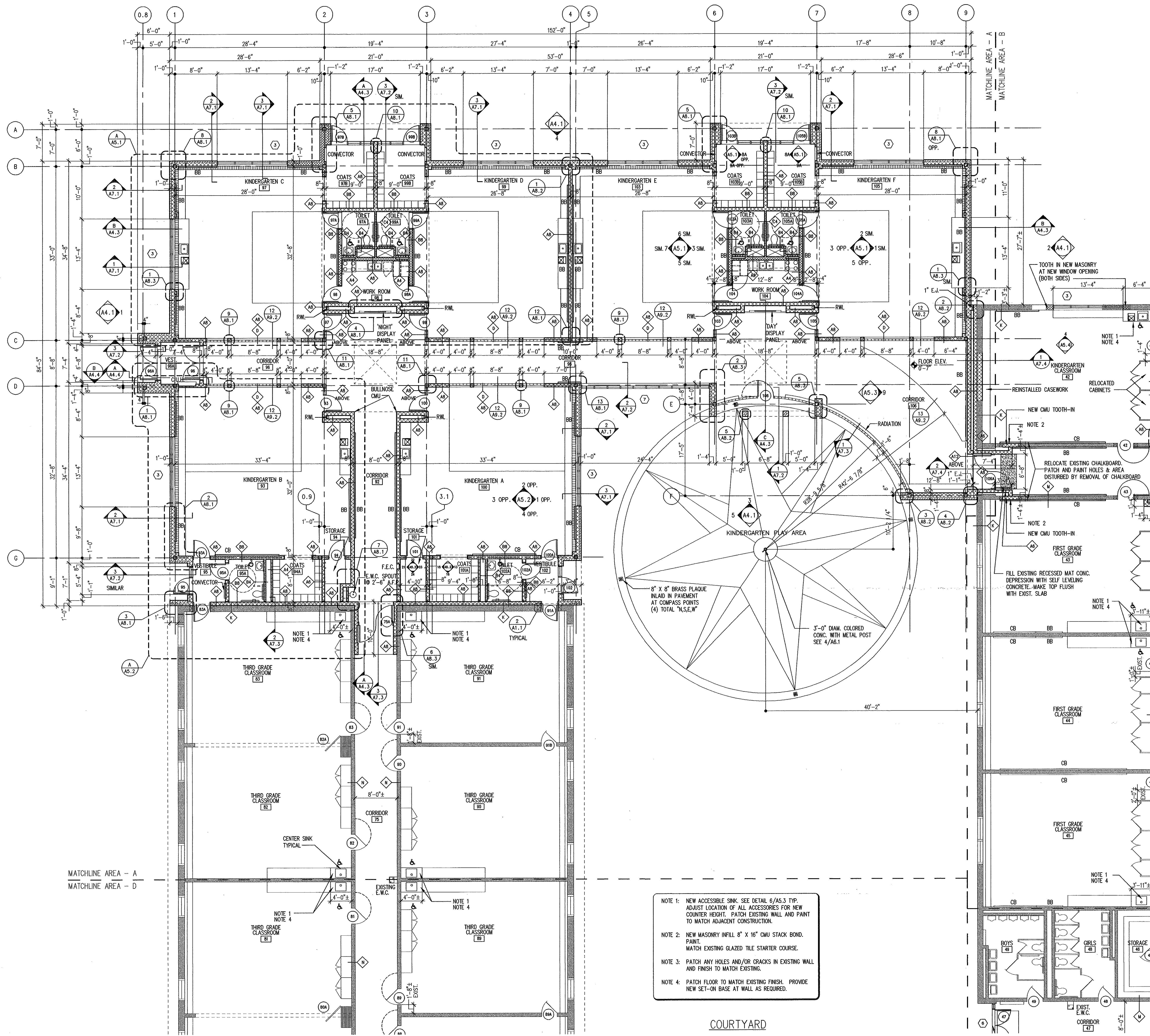


R1.1



1 REFERENCE PLAN
R1.1 1/16"=1'-0"

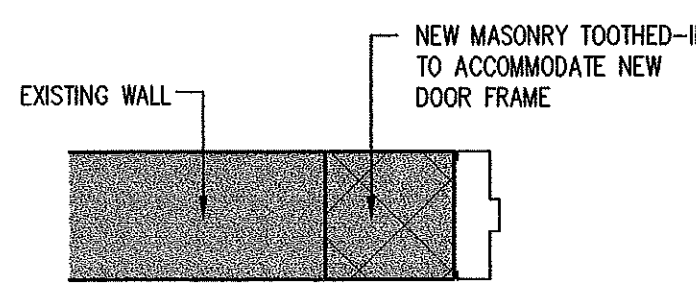




1 PARTIAL FLOOR PLAN (AREA A)
1/8"=1'-0"

- NOTE 1: NEW ACCESSIBLE SINK SEE DETAIL 6/AS.3 TYP. ADJUST LOCATION OF ALL ACCESSORIES FOR NEW COUNTER HEIGHT. PATCH EXISTING WALL AND PAINT TO MATCH ADJACENT CONSTRUCTION.
- NOTE 2: NEW MASONRY INFILL 8" X 16" CMU STACK BOND. PAINT. MATCH EXISTING GLAZED TILE STARTER COURSE.
- NOTE 3: PATCH ANY HOLES AND/OR CRACKS IN EXISTING WALL AND FINISH TO MATCH EXISTING.
- NOTE 4: PATCH FLOOR TO MATCH EXISTING FINISH. PROVIDE NEW SET-IN BASE AT WALL AS REQUIRED.

COURTYARD



2 TYPICAL DETAIL
A1.1 (NEW CMU TOOTHED-IN WITH EXIST. WALL)

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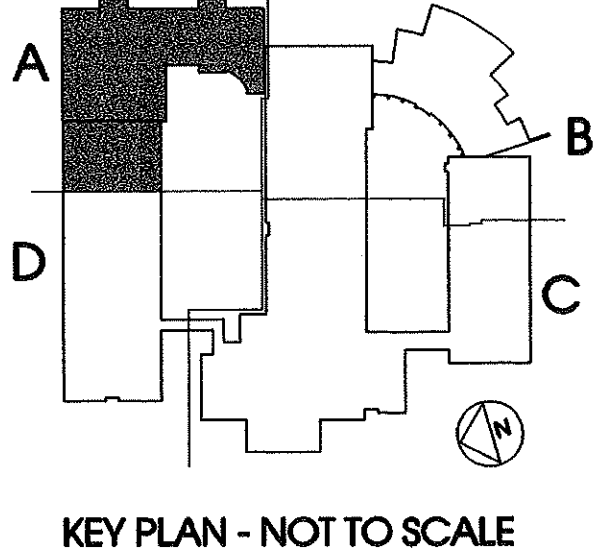
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- GENERAL NOTES:
- A) WHERE EXISTING LOCKERS, CHALKBOARDS, BULLETIN BOARDS, ETC. ARE REMOVED, PREPARE EXISTING CONSTRUCTION TO MATCH ADJACENT FINISH WALL. WHERE NECESSARY RAKE OUT JOINTS & RE-TOOL TO MATCH ADJACENT FINISH WALL.
 - B) TYPICAL: TOOTH-IN NEW MASONRY AT ALL NEW DOOR JAMBS UNLESS OTHERWISE NOTED. SEE 2/A1.1
 - C) SEE A2.6 FOR ADDITIONAL WORK ABOVE FINISHED CEILING IN EXISTING BUILDING AREAS.

No.	Description	Date
01	BID ISSUE	4-30-99

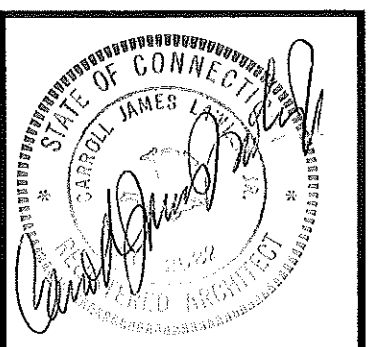
PARTIAL FLOOR PLAN AREA - A

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Date: 12/1/98 Checked By: JE

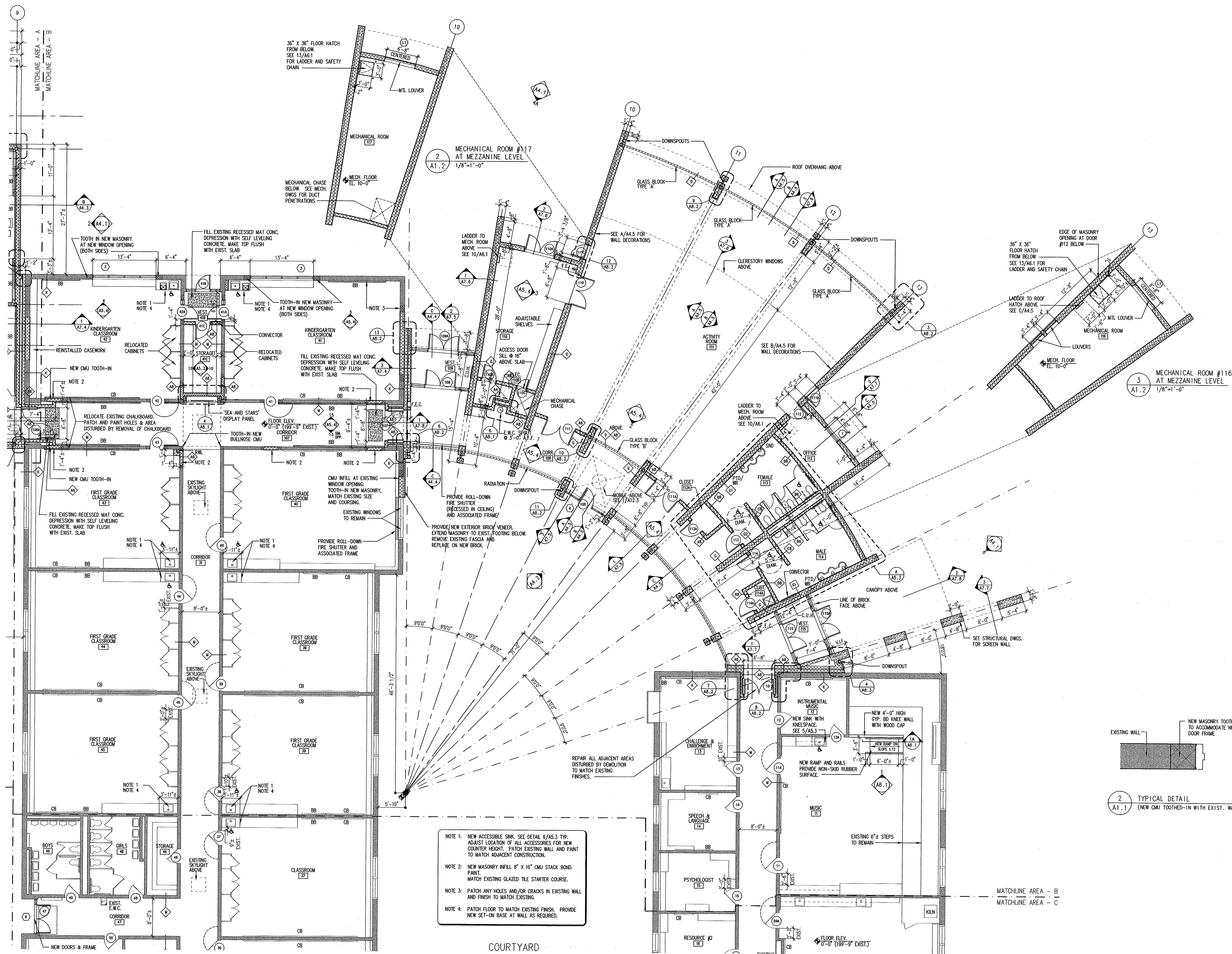
Gilead Hill Elementary School
Hebron, Connecticut

Additions and Renovations

State Project Number #067-030-EA



A1.1



- NOTE 1: NEW ACCESSIBLE SINK. SEE DETAIL 6/A5.3 TYP. ADJUST LOCATION OF ALL ACCESSORIES FOR NEW COUNTER HEIGHT. PATCH EXISTING WALL AND PAINT TO MATCH ADJACENT CONSTRUCTION.
- NOTE 2: NEW MASONRY INFILL 8" X 16" CMU STACK BOND. PAINT. MATCH EXISTING GLAZED TILE STARTER COURSE.
- NOTE 3: PATCH ANY HOLES AND/OR CRACKS IN EXISTING WALL AND FINISH TO MATCH EXISTING.
- NOTE 4: PATCH FLOOR TO MATCH EXISTING FINISH. PROVIDE NEW SET-ON BASE AT WALL AS REQUIRED.

1 PARTIAL FLOOR PLAN (AREA B)
A1.2
1/8"=1'-0"

2 TYPICAL DETAIL
A1.1
(NEW CMU TOOTHED-IN WITH EXIST. WALL)

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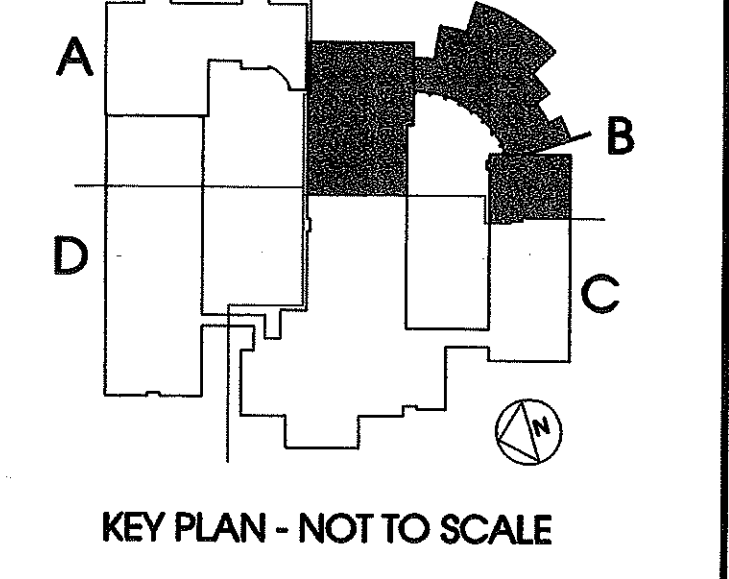
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- GENERAL NOTES:
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- B) TYPICAL: TOOTH-IN NEW MASONRY AT ALL NEW DOOR JAMBS UNLESS OTHERWISE NOTED. SEE 2/A1.1
- C) SEE A2.6 FOR ADDITIONAL WORK ABOVE FINISHED CEILING IN EXISTING BUILDING AREAS.

No.	Description	Date
01	BID ISSUE	4-30-99
Revisions		

PARTIAL FLOOR PLAN AREA - B

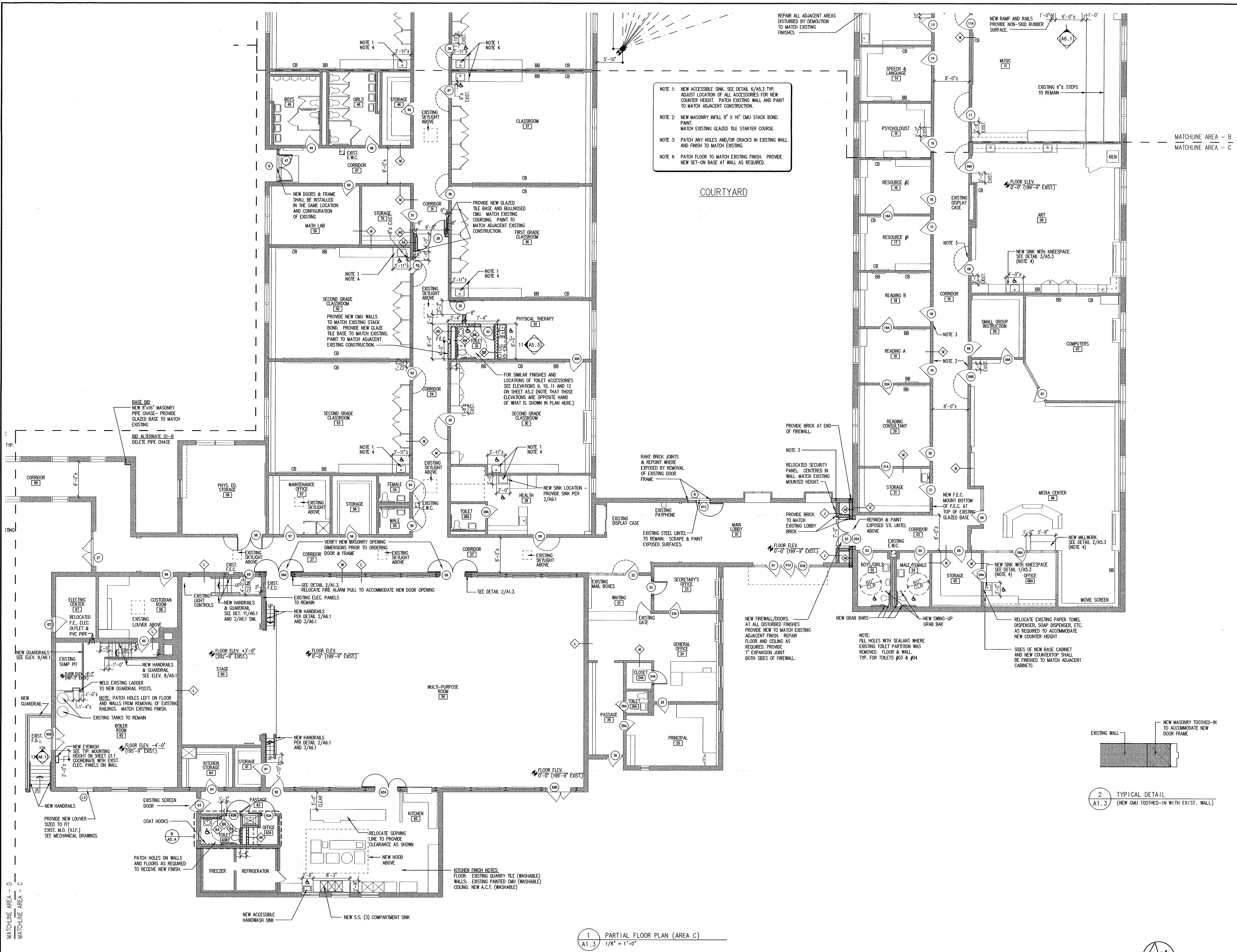
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Date: 12/1/98 Checked By: JE

Gilead Hill Elementary School
Hebron, Connecticut

Additions and Renovations

State Project Number #067-030-EA

A1.2



NOTE 1: NEW ACCESSIBLE SINK. SEE DETAIL 6/AS.3 TYP. ADJUST LOCATION OF ALL ACCESSORIES FOR NEW COUNTER HEIGHT. PATCH EXISTING WALL AND PAINT TO MATCH ADJACENT CONSTRUCTION.

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NOTE 3: PATCH ANY HOLES AND/OR CRACKS IN EXISTING WALL AND FINISH TO MATCH EXISTING.

NOTE 4: PATCH FLOOR TO MATCH EXISTING FINISH. PROVIDE NEW SET-ON BASE AT WALL AS REQUIRED.

1 PARTIAL FLOOR PLAN (AREA C)
1/8" = 1'-0"

2 TYPICAL DETAIL
A1.3 (NEW CMU TOOTHED-IN WITH EXIST. WALL)

MATCHLINE AREA - B
MATCHLINE AREA - C

MATCHLINE AREA - D
MATCHLINE AREA - C



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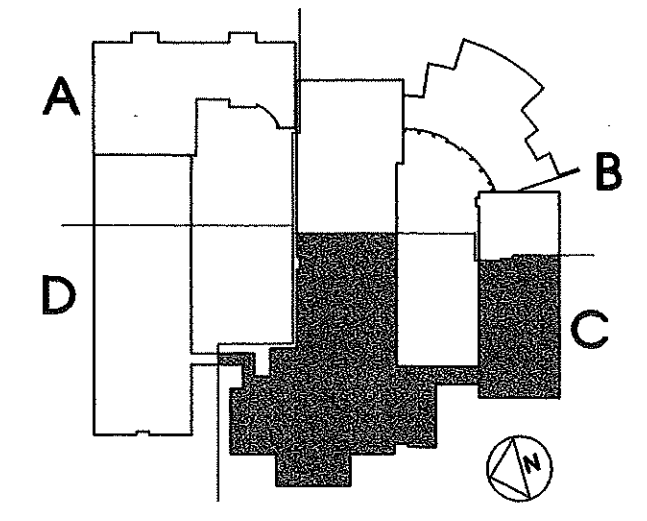
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KEY PLAN - NOT TO SCALE

- GENERAL NOTES:
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 - C) SEE A2.6 FOR ADDITIONAL WORK ABOVE FINISHED CEILING IN EXISTING BUILDING AREAS.

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01	BID ISSUE	4-30-99

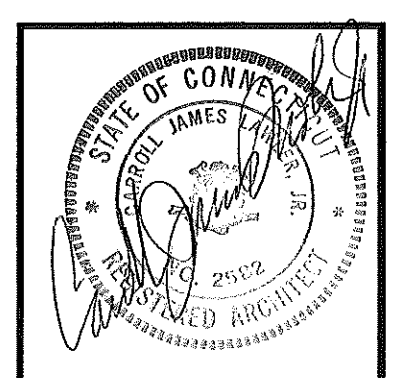
PARTIAL FLOOR PLAN AREA - C

Scale: 1/8"=1'-0" Drawn By: CR
Date: 12/1/98 Checked By: JE

Gilead Hill Elementary School
Hebron, Connecticut

Additions and Renovations

State Project Number #067-030-EA



A1.3



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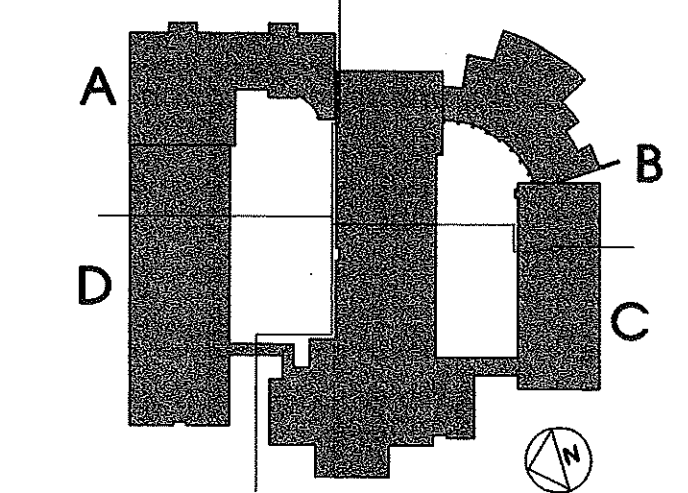
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- SYMBOLS**
 NOTE: SIZE AND LOCATION OF SYMBOLS ARE APPROXIMATE. ACTUAL EXISTING CONDITIONS SHALL BE FIELD VERIFIED.
- (A) ROOF AREA IDENTIFICATION (NOTE: THE LETTER "I" IS NOT USED)
 - ☐ EXISTING ROOF DRAIN
 - ☒ NEW ROOF DRAIN
 - PITCH POCKET
 - PLUMBING VENT
 - ☒ FAN
 - ← ROOF SLOPE DIRECTION
 - ▽ SPLASH BLOCK
 - ☐ SKYLIGHT
- SEE MECHANICAL DRAWINGS FOR SPECIFIC MECHANICAL EQUIPMENT INFORMATION.



KEY PLAN - NOT TO SCALE

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No.	Description	Date
Revisions		

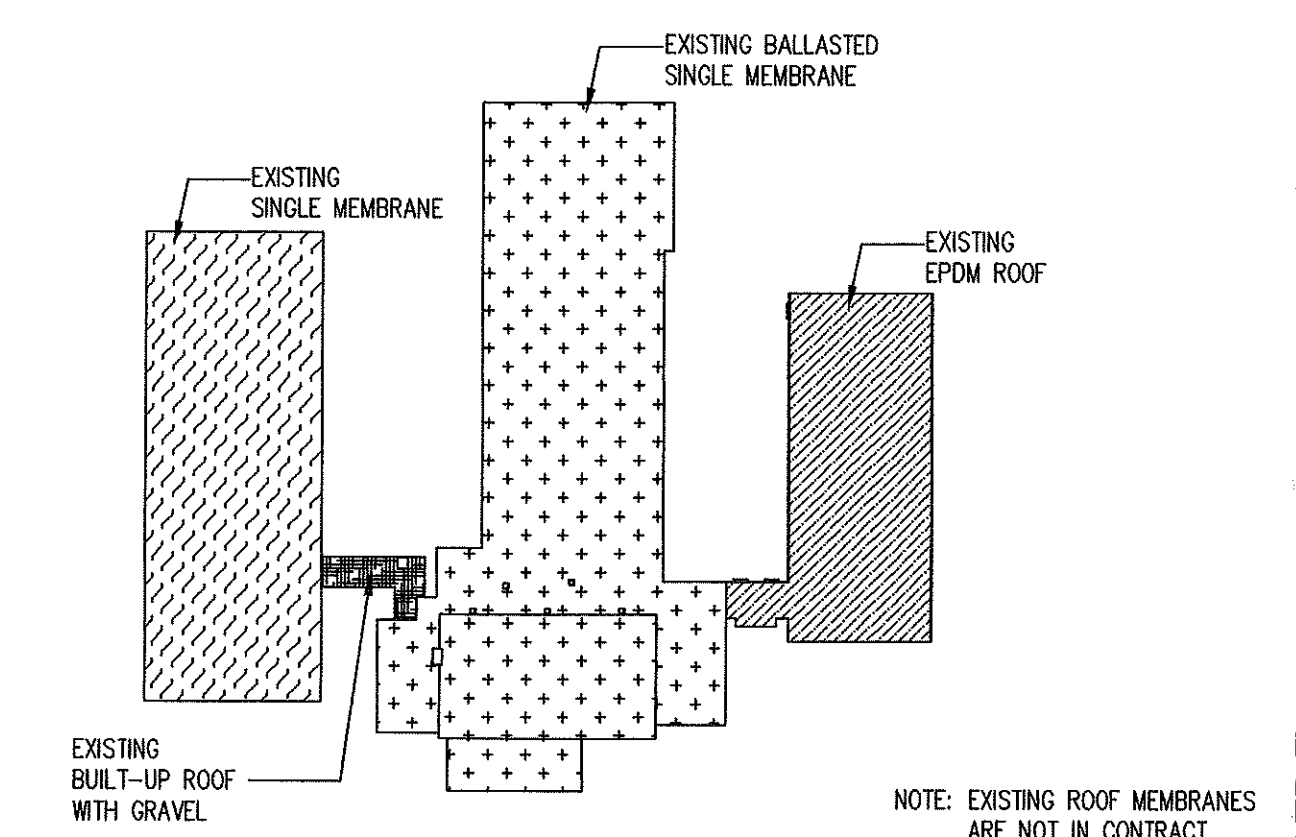
ROOF PLAN

Scale: 1/16" = 1'-0" Drawn By: CR, JE
 Date: 12/1/98 Checked By: JE

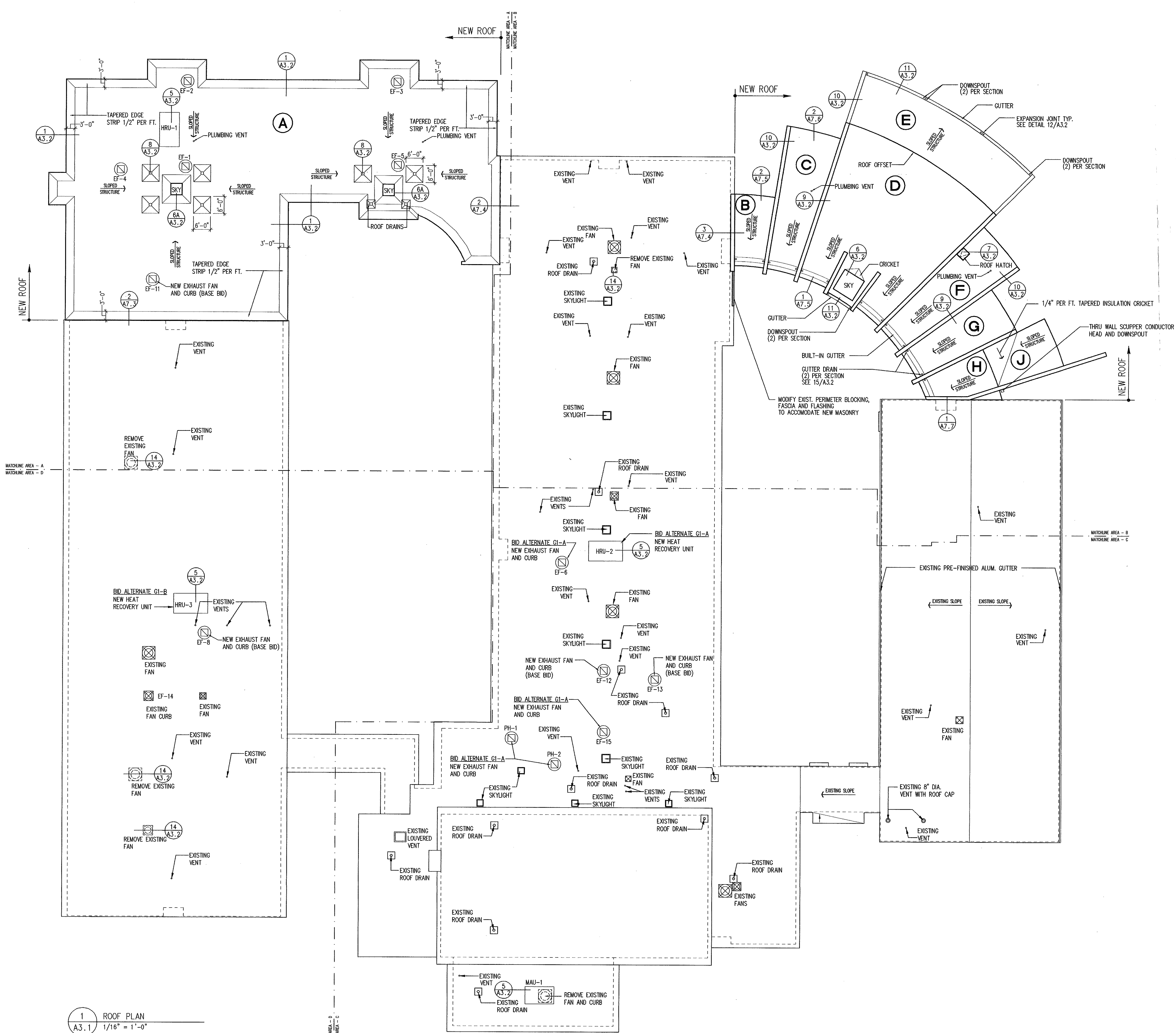
Gilead Hill Elementary School
 Hebron, Connecticut

Additions and Renovations

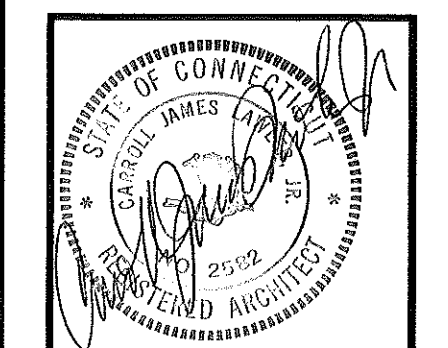
State Project Number
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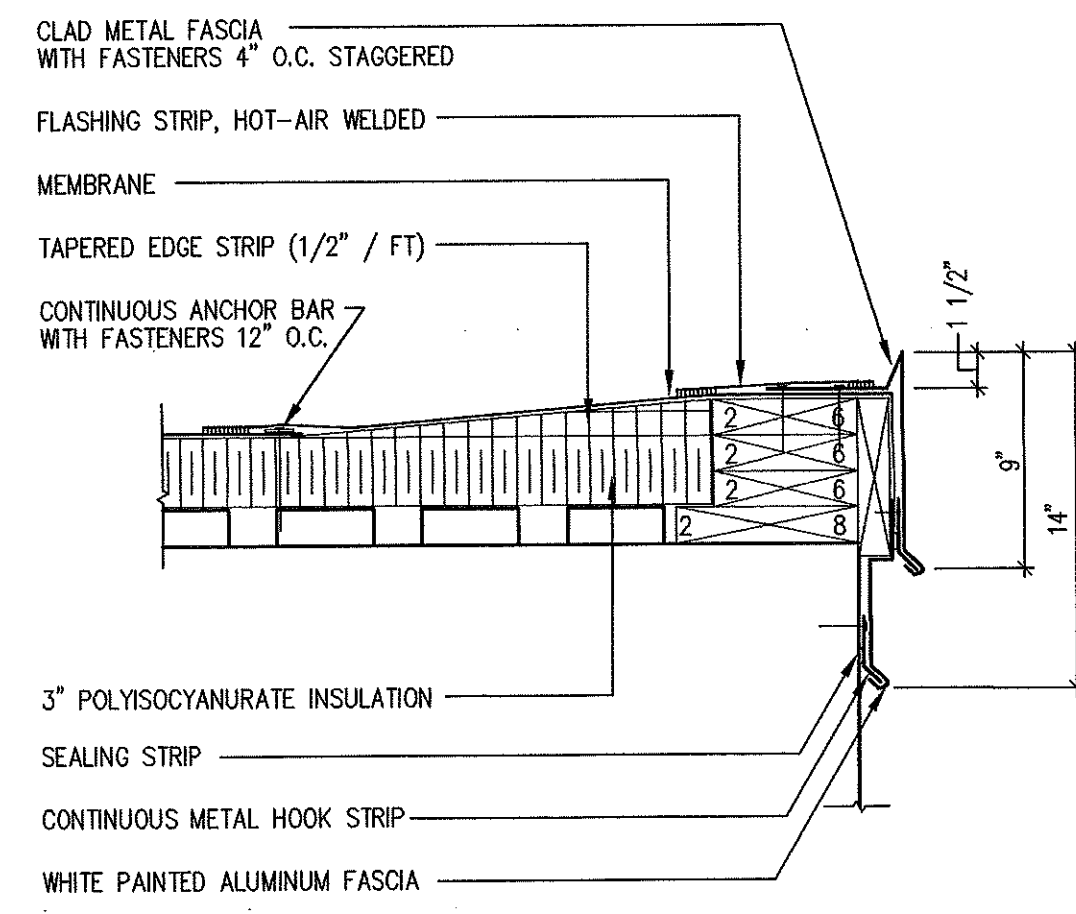
EXISTING ROOF MATERIAL LEGEND
 NOT TO SCALE



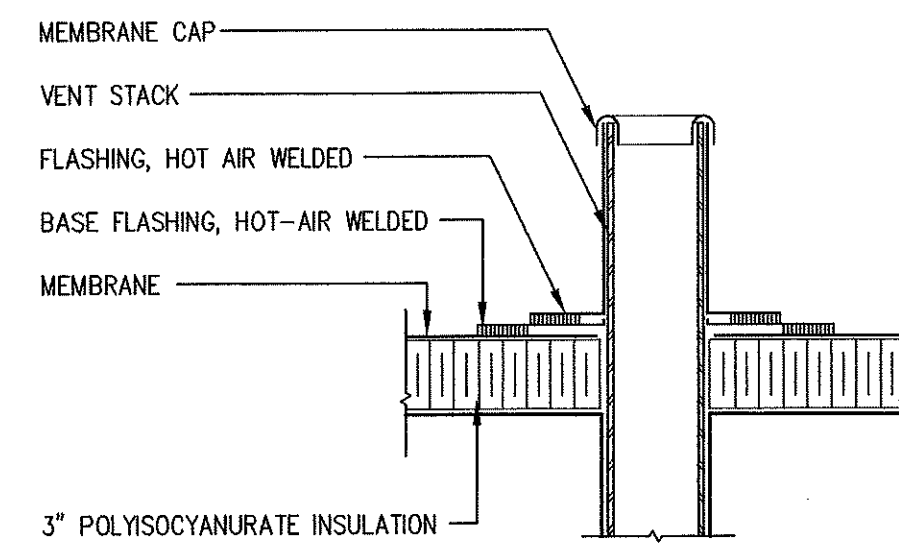
1 ROOF PLAN
 1/16" = 1'-0"



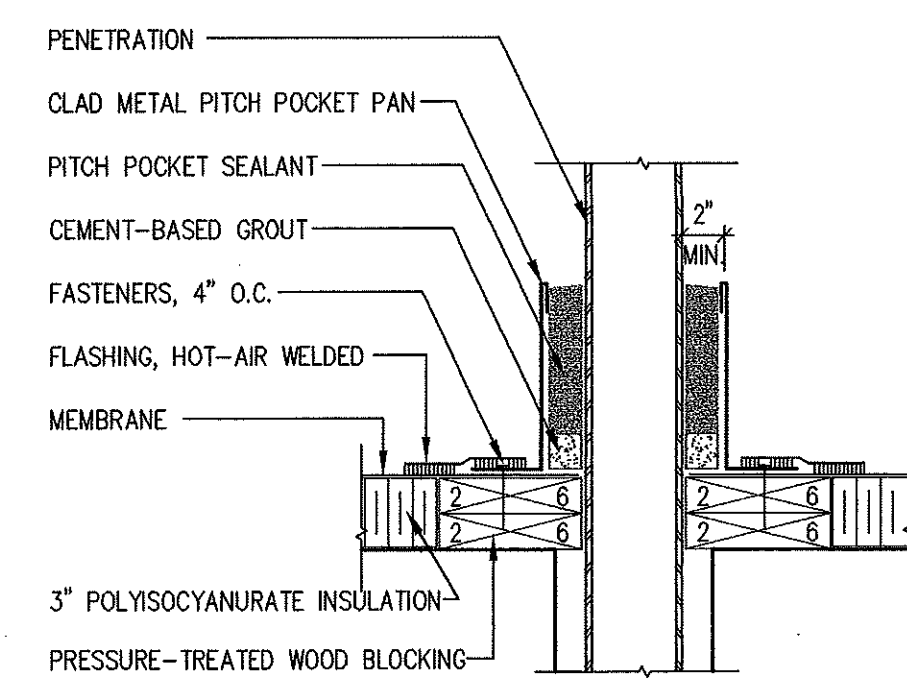
A3.1



1 METAL EDGE
A3.2 1 1/2" = 1'-0"

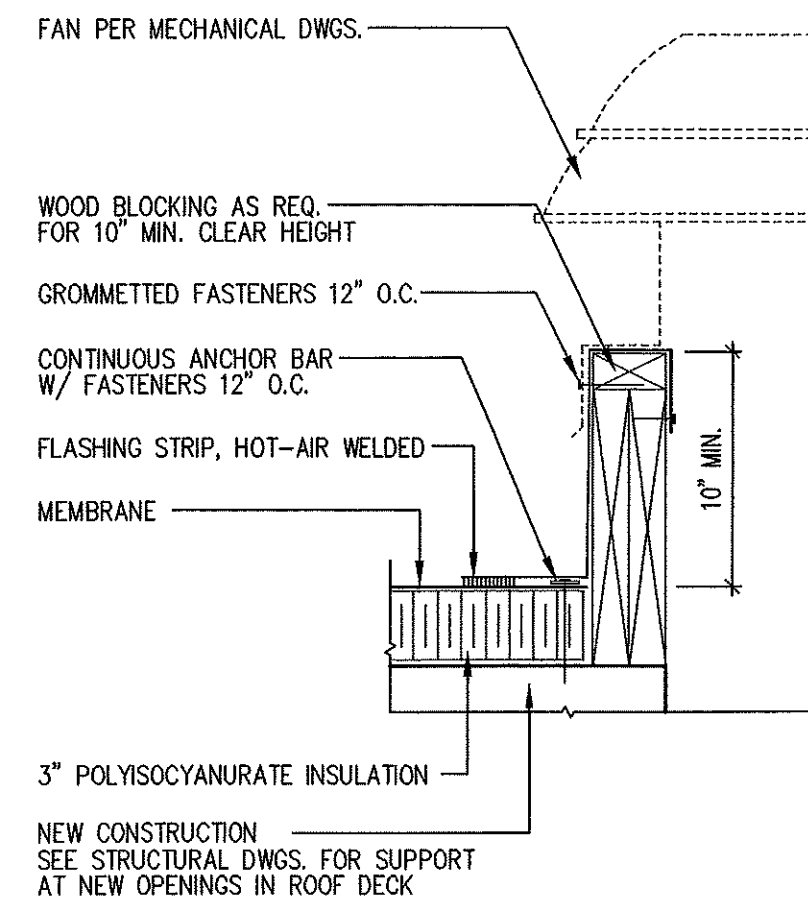


2 VENT STACK FLASHING
A3.2 1 1/2" = 1'-0"

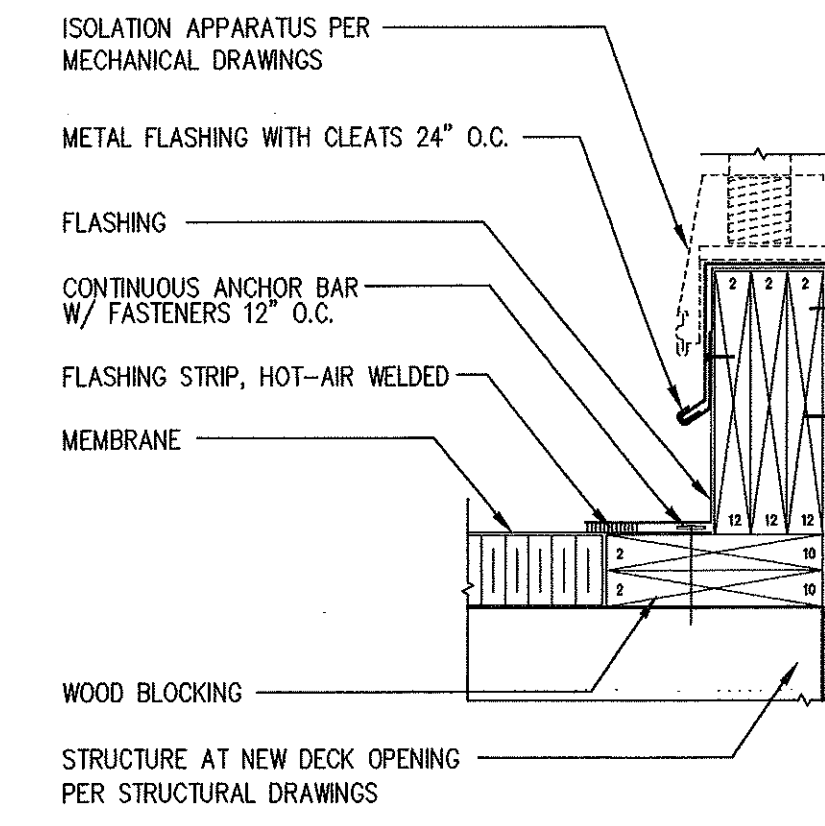


3 PITCH POCKET
A3.2 1 1/2" = 1'-0"

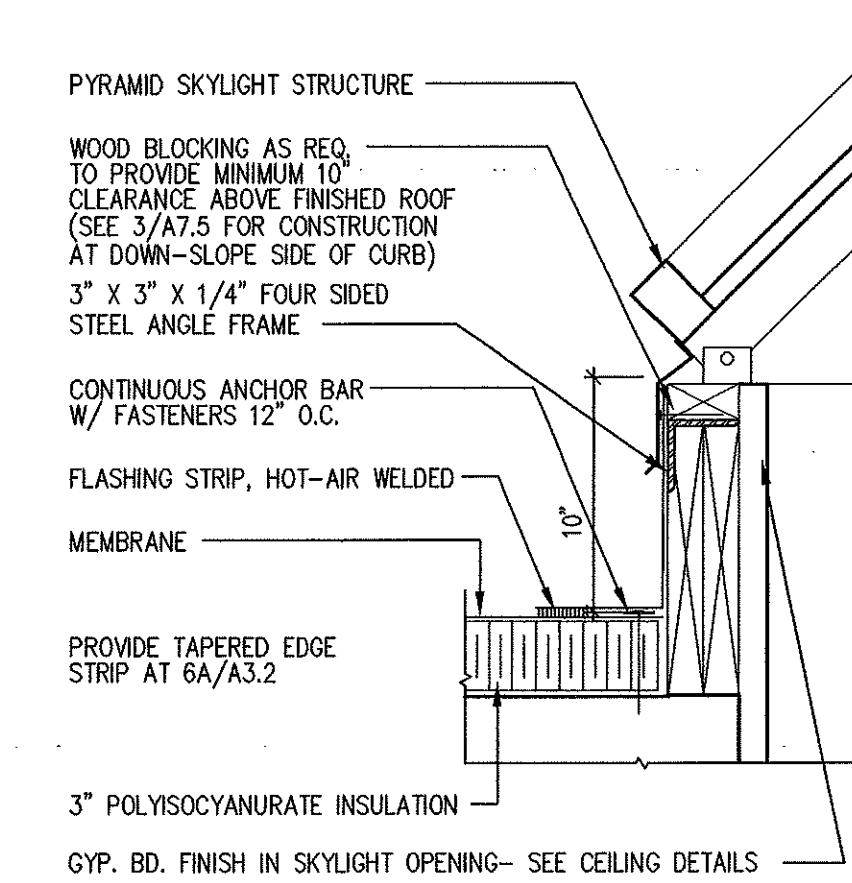
NOTE: USE MEMBRANE MANUFACTURER'S CONE-TYPE FLASHING IN LIEU OF PITCHPOCKETS WHEREVER POSSIBLE



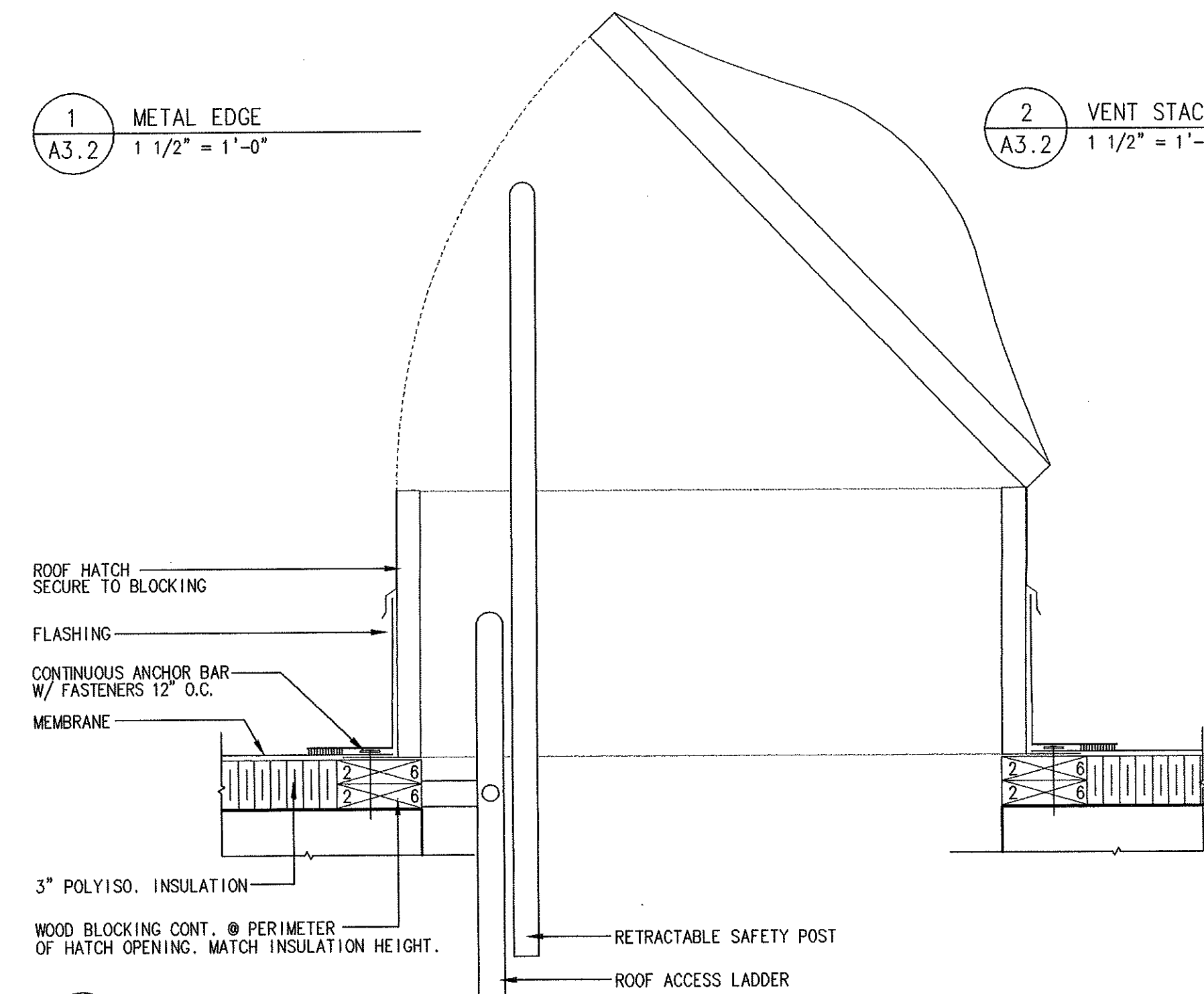
4 REMOVABLE CURB
A3.2 1 1/2" = 1'-0"



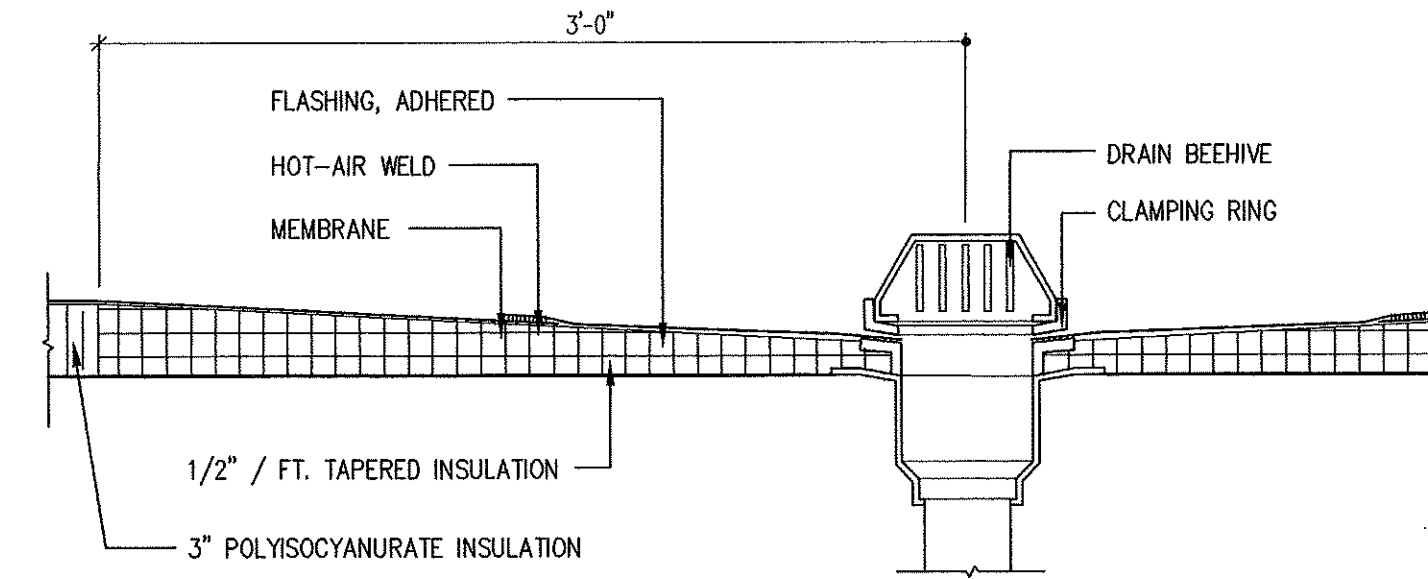
5 ISOLATION CURB
A3.2 1 1/2" = 1'-0"



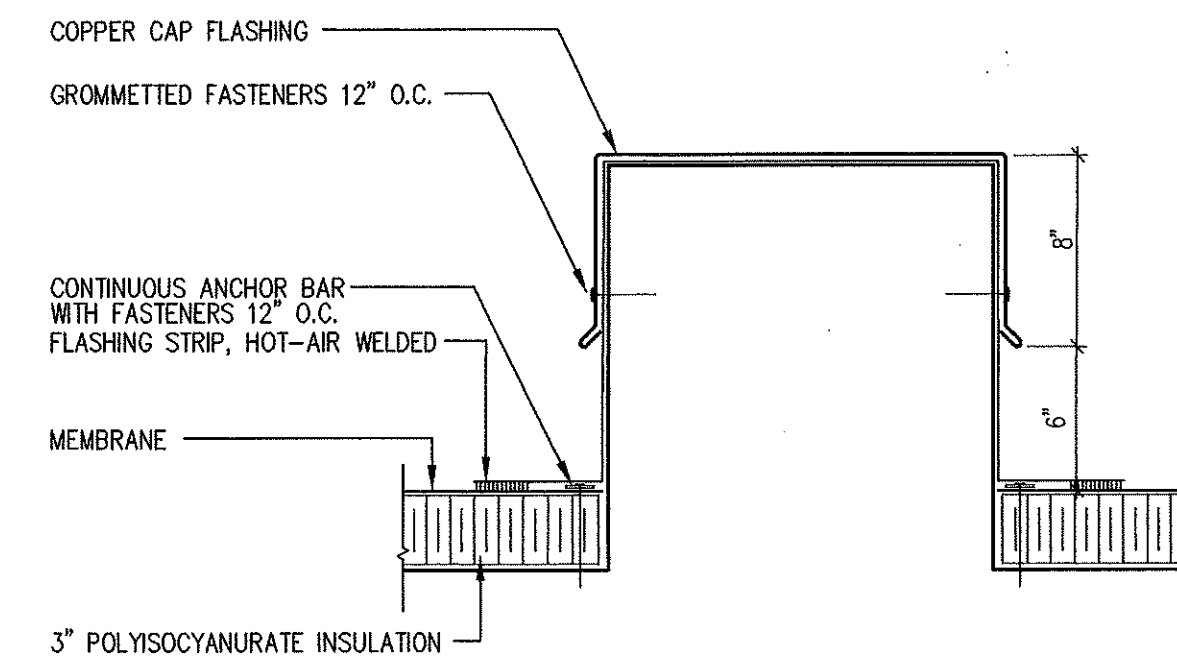
6 6A SKYLIGHT CURB FLASHING
A3.2 A3.2 1 1/2" = 1'-0"



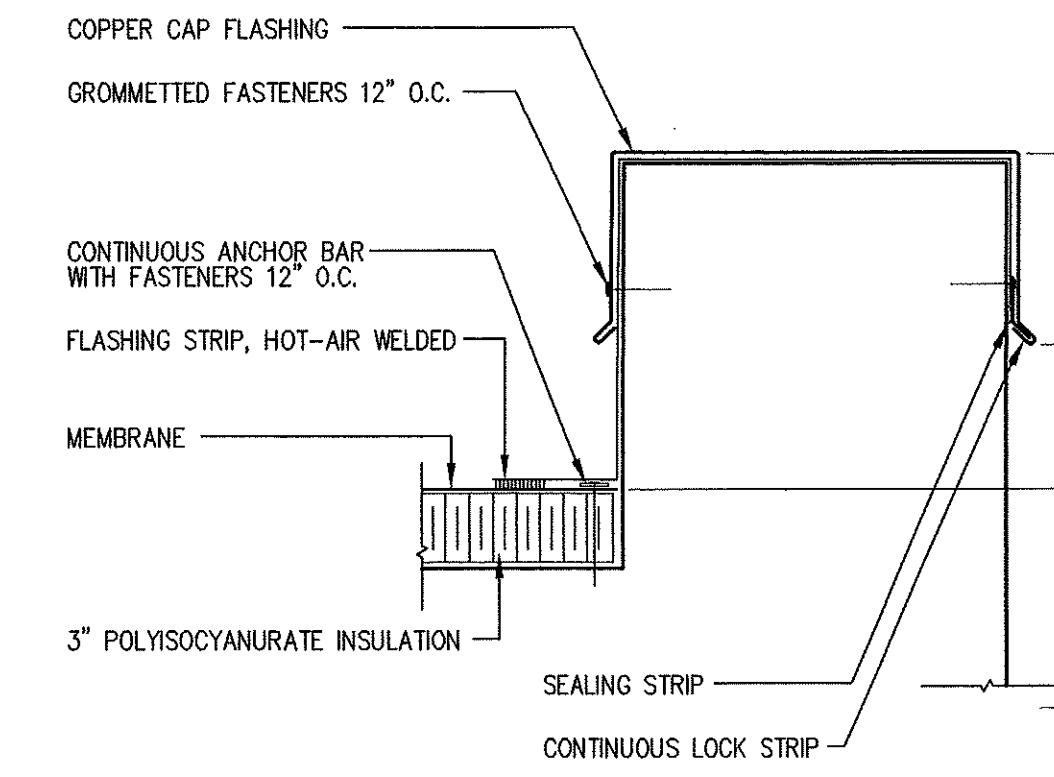
7 ROOF HATCH
A3.2 1 1/2" = 1'-0"



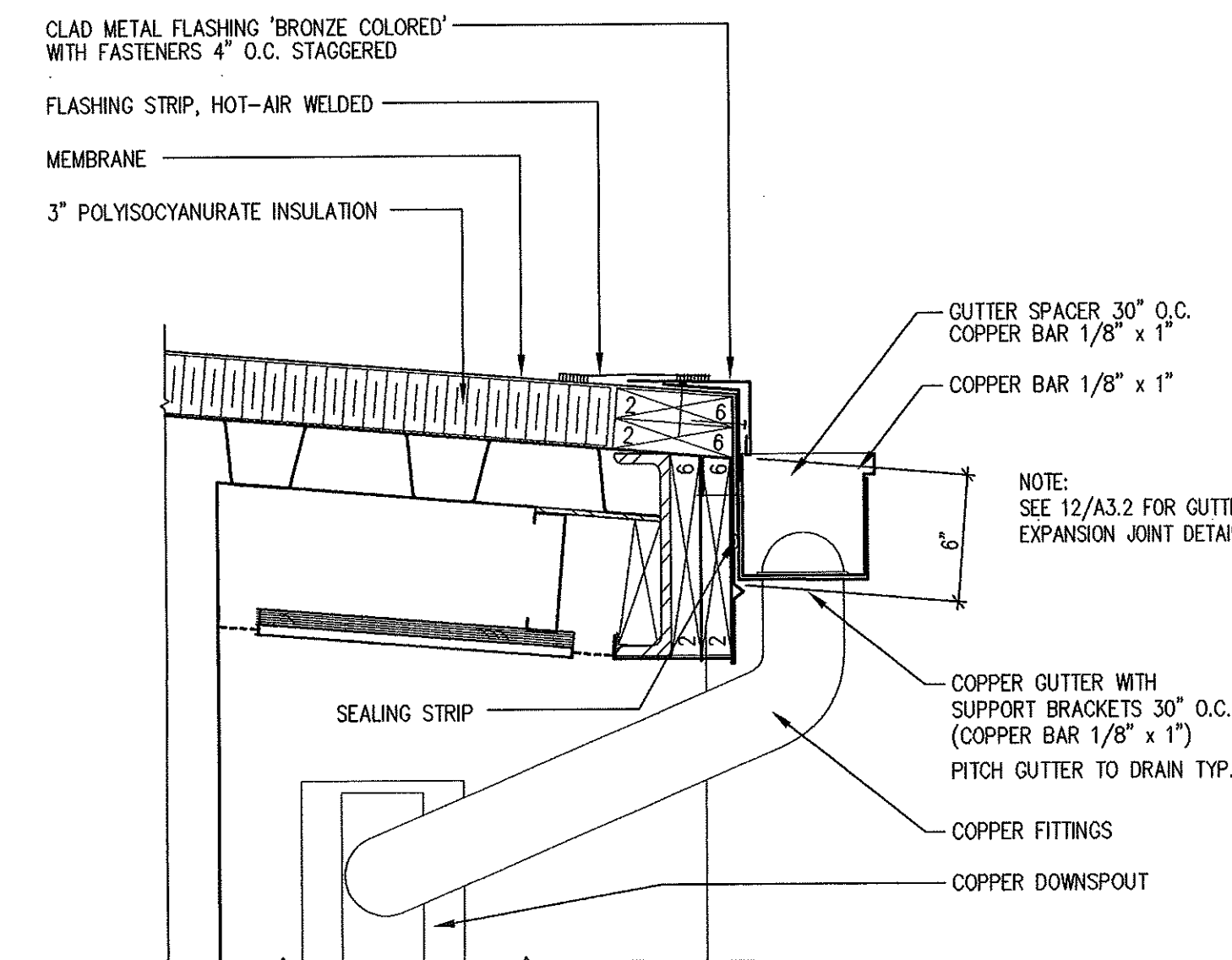
8 ROOF DRAIN
A3.2 1 1/2" = 1'-0"



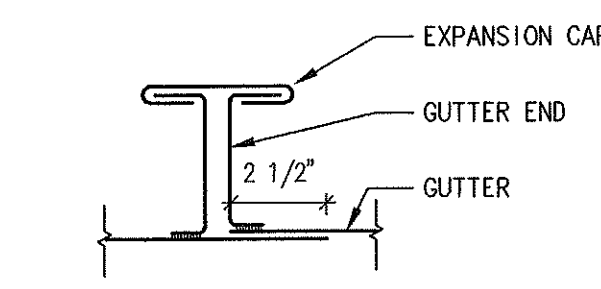
9 CAP FLASHING
A3.2 1 1/2" = 1'-0"



10 CAP FLASHING
A3.2 1 1/2" = 1'-0"

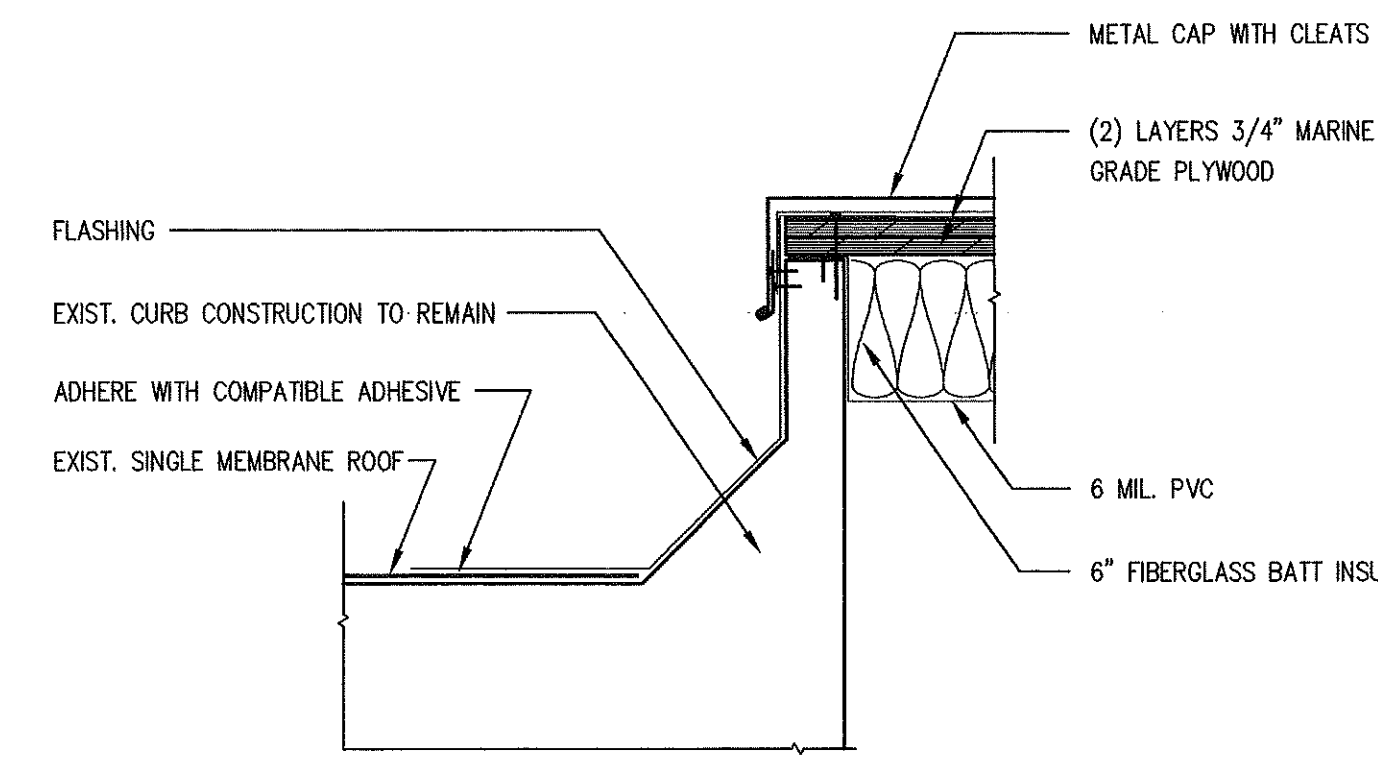


11 GUTTER
A3.2 1 1/2" = 1'-0"

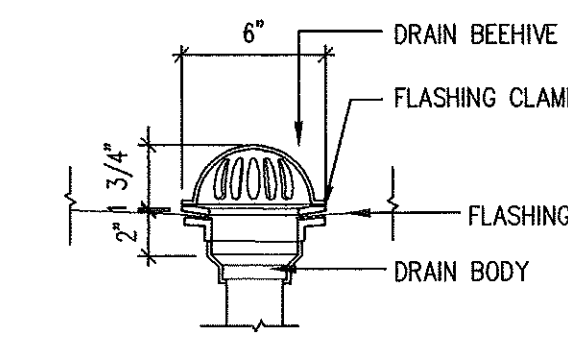


12 GUTTER EXPANSION JOINT
A3.2 NOT TO SCALE

13 NOT USED
A3.2 1 1/2" = 1'-0"



14 CLOSURE AT EXIST. CURB
A3.2 1 1/2" = 1'-0"



15 BUILT-IN GUTTER DRAIN
A3.2 1 1/2" = 1'-0"

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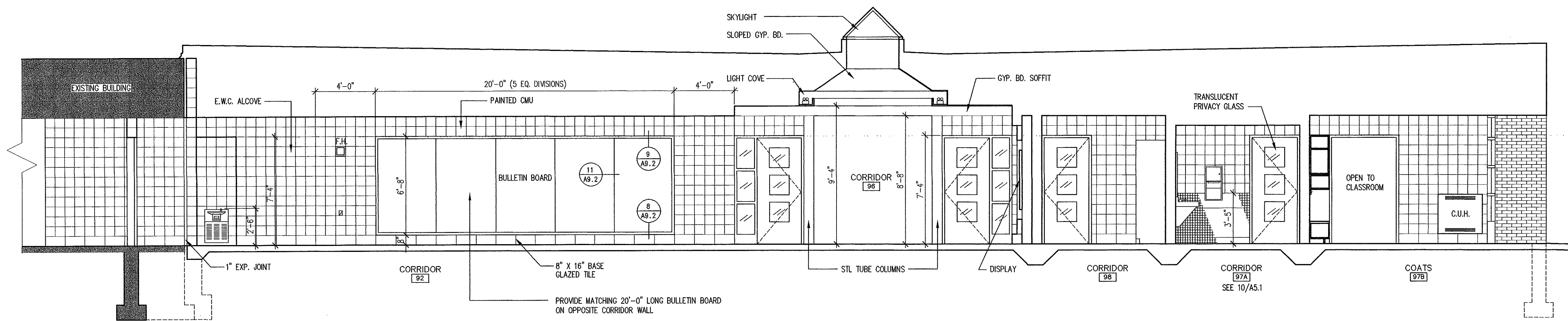
ROOF DETAILS

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Date: 12/1/98 Checked By: JE

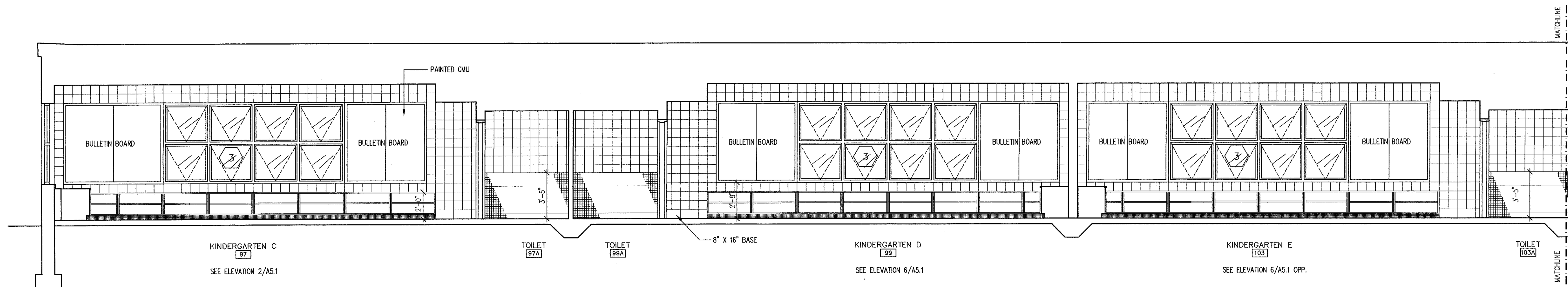
Gilead Hill
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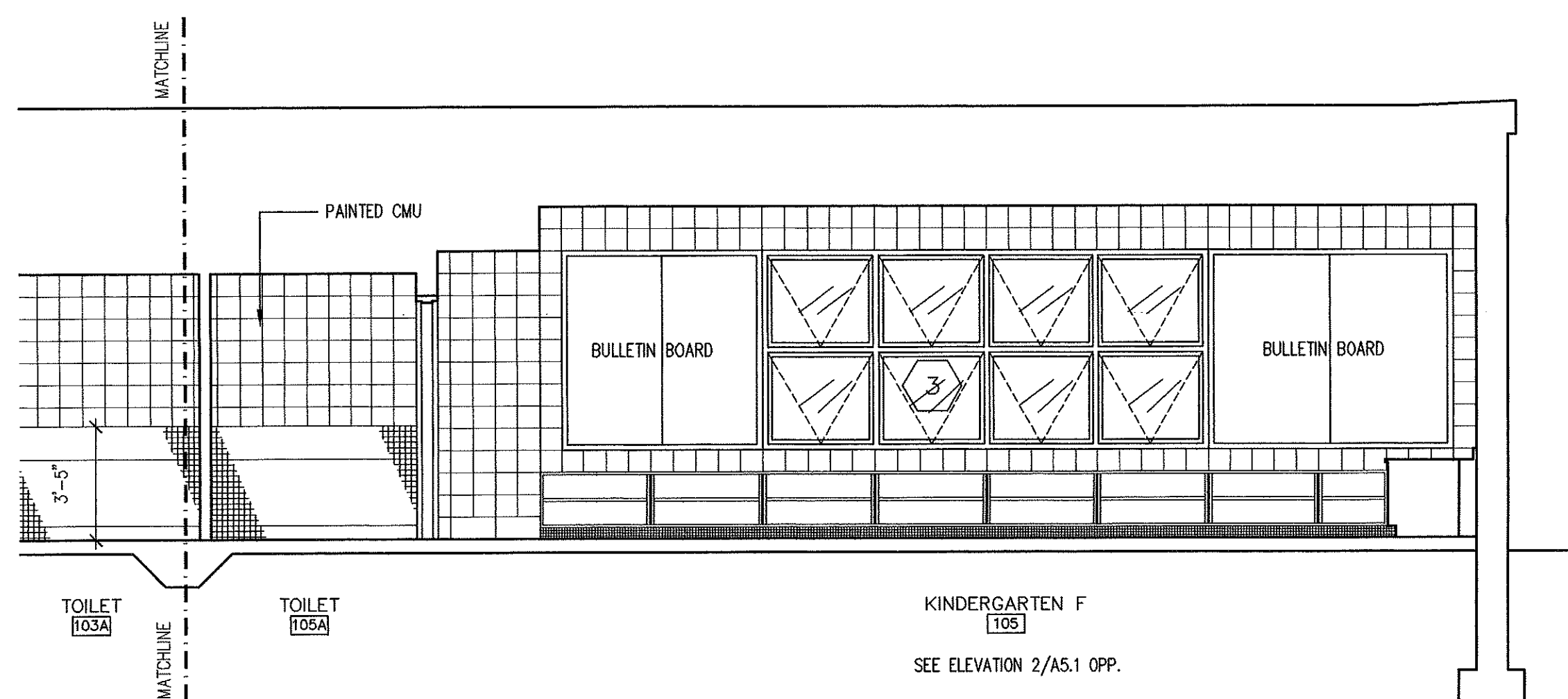
State Project Number
#067-030-EA



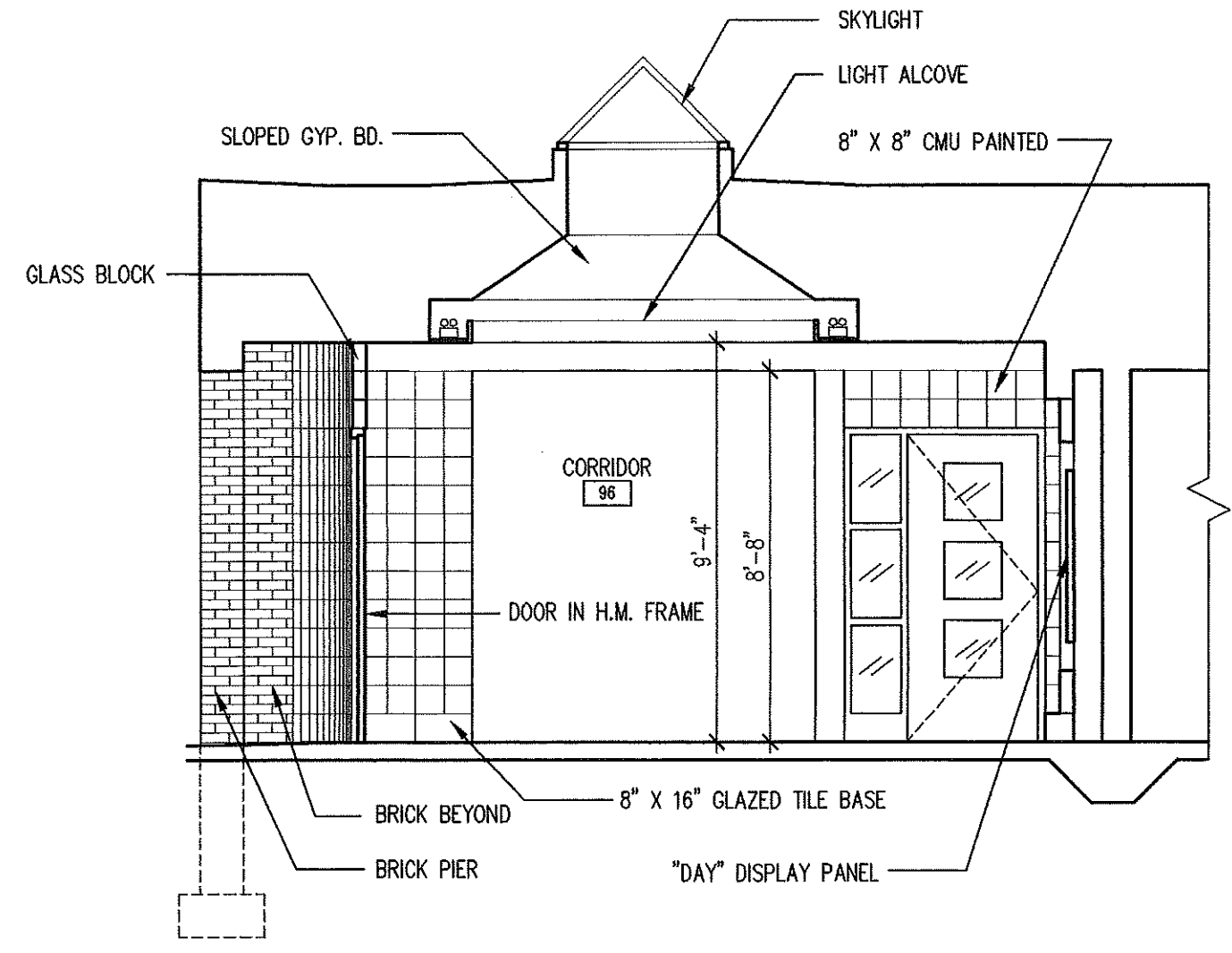
A BUILDING SECTION - NORTH
A4.3 1/4" = 1'-0"



B BUILDING SECTION - EAST
A4.3 1/4" = 1'-0"



B BUILDING SECTION - EAST
A4.3 1/4" = 1'-0"



C BUILDING SECTION
A4.3 1/4" = 1'-0"

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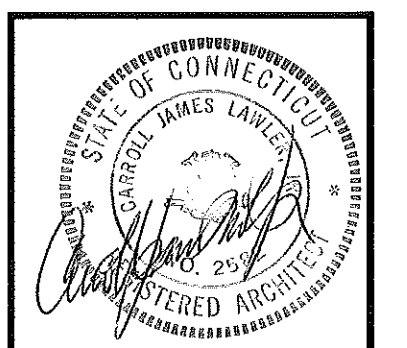
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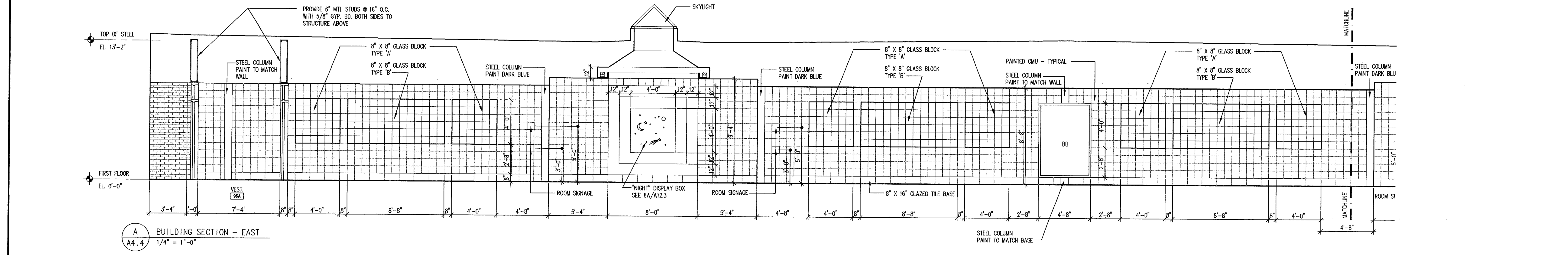
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BUILDING SECTIONS
Scale: 1/4"=1'-0" Drawn By: CR
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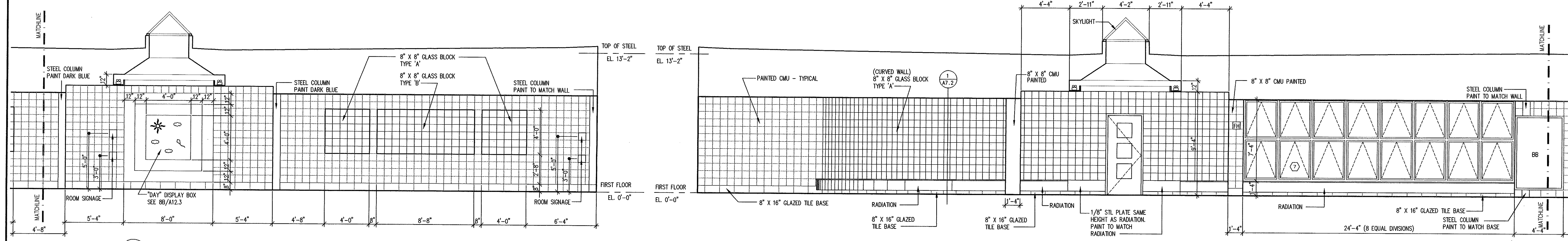
Gilead Hill Elementary School
Hebron, Connecticut
Additions and Renovations
State Project Number #067-030-EA



A4.3

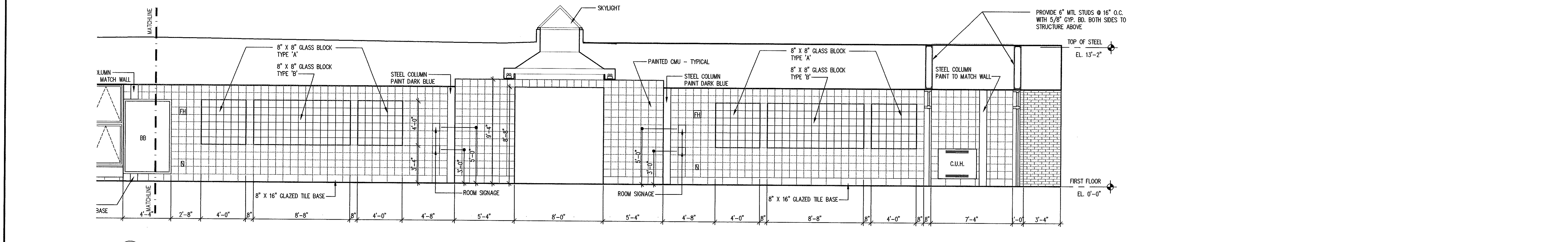


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A4.4 1/4" = 1'-0"

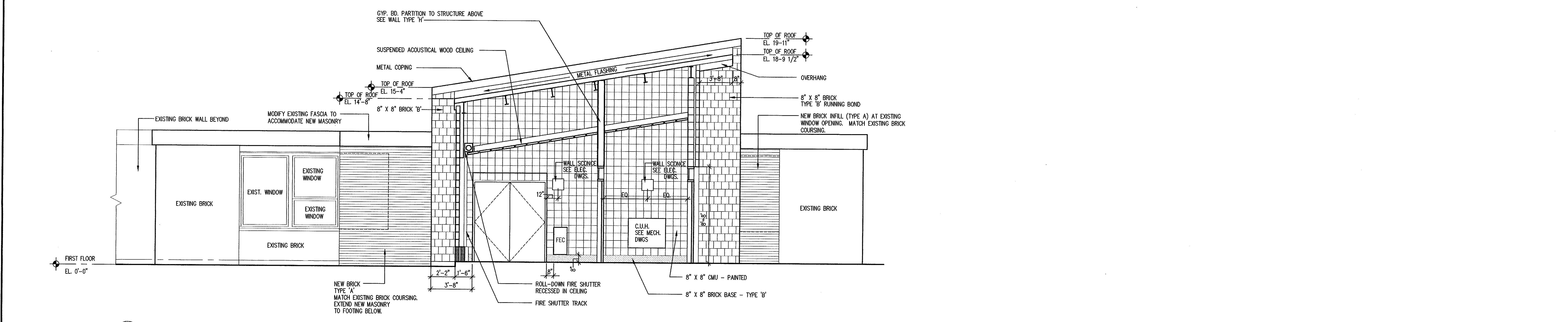


A BUILDING SECTION CONTINUED - EAST
A4.4 1/4" = 1'-0"

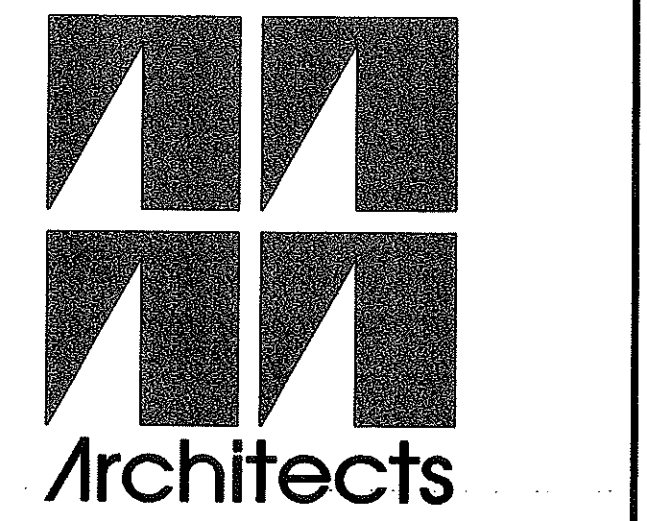
B BUILDING SECTION CONTINUED - WEST
A4.4 1/4" = 1'-0"



B BUILDING SECTION CONTINUED - WEST
A4.4 1/4" = 1'-0"



C BUILDING SECTION THRU VESTIBULE #109
A4.4 1/4" = 1'-0"



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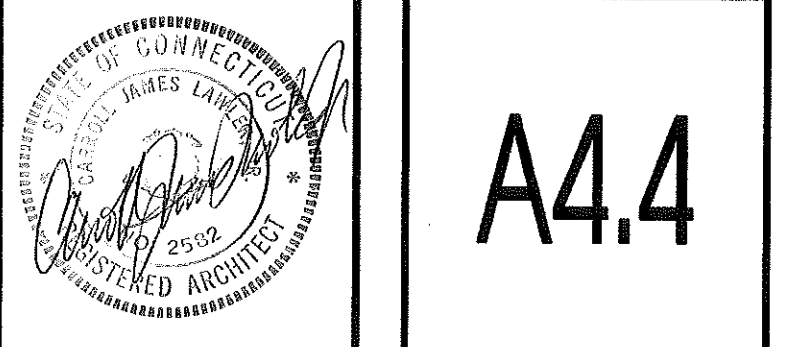
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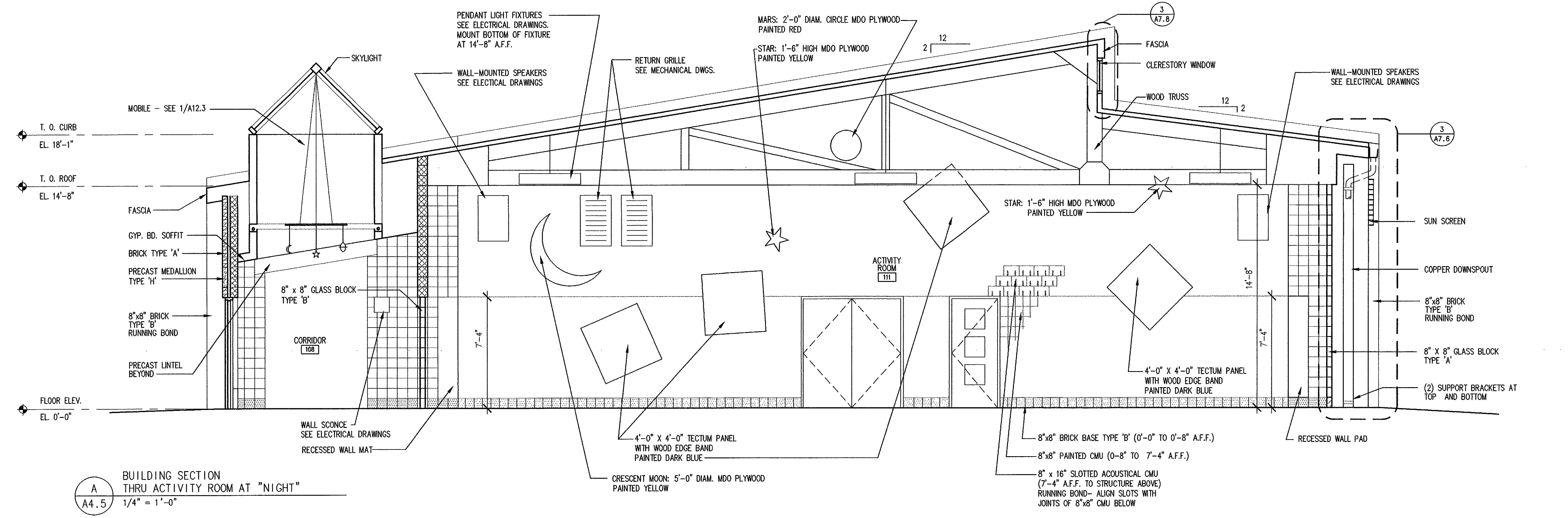
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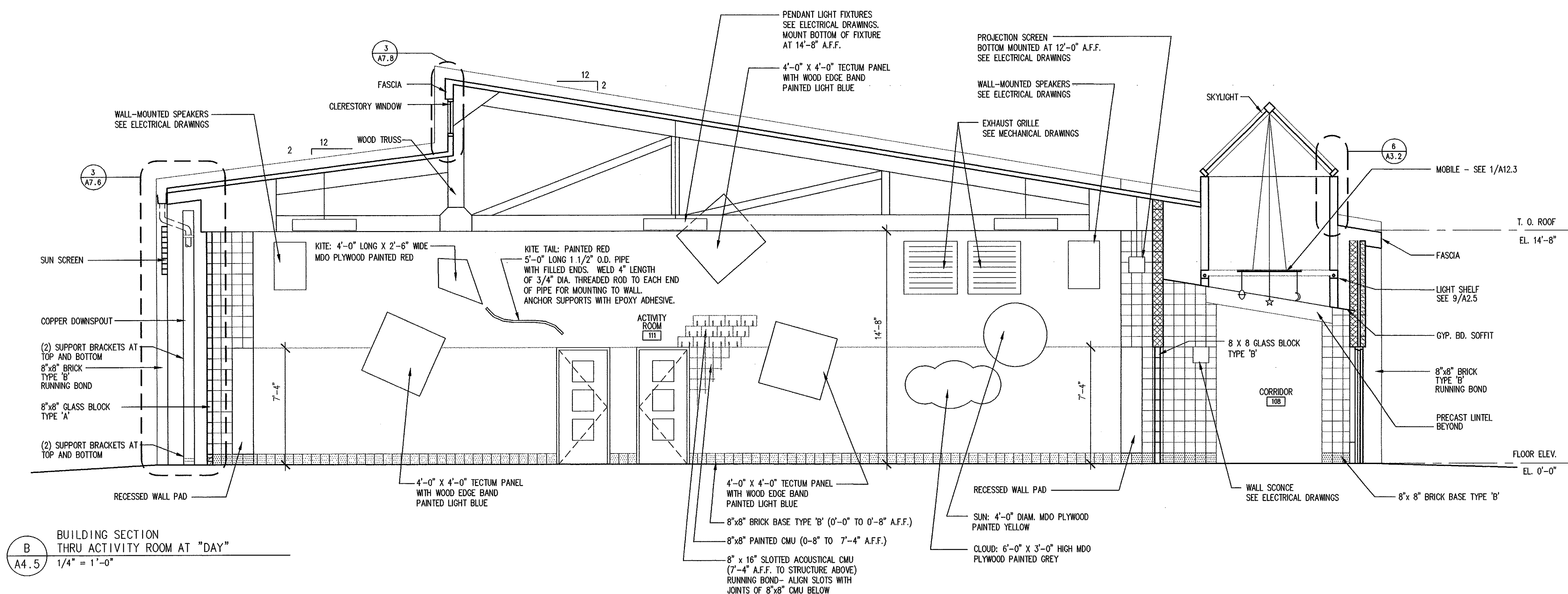
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Scale: 1/4" = 1'-0" Drawn By: CR
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Gilead Hill Elementary School
Hebron, Connecticut
Additions and Renovations
State Project Number #067-030-EA

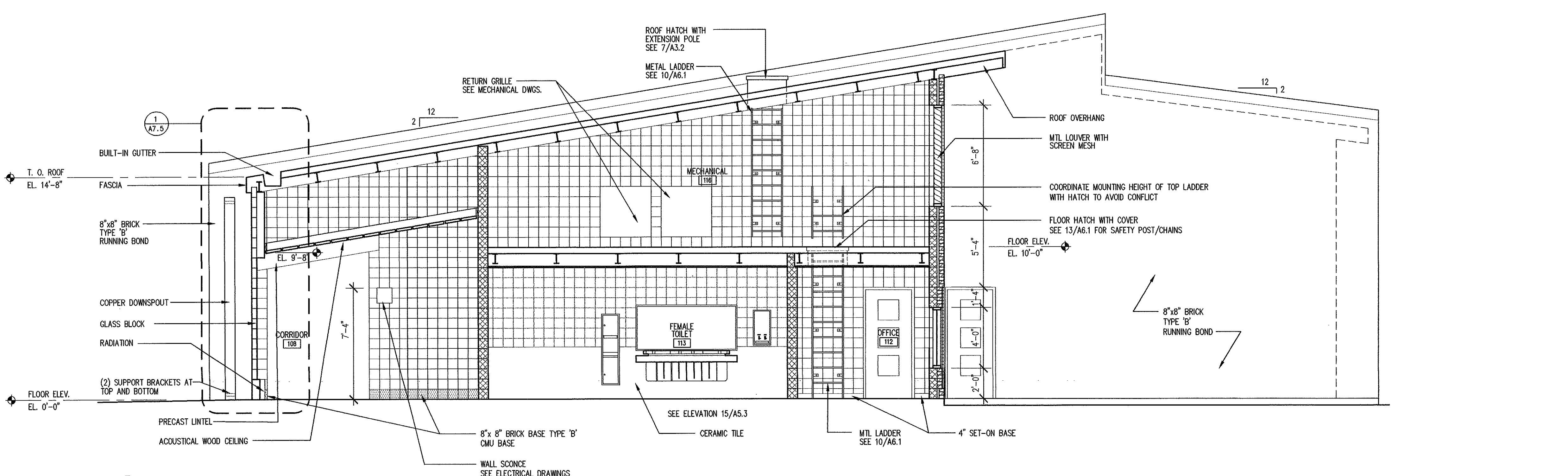




A
A4.5
BUILDING SECTION
THRU ACTIVITY ROOM AT "NIGHT"
1/4" = 1'-0"



B
A4.5
BUILDING SECTION
THRU ACTIVITY ROOM AT "DAY"
1/4" = 1'-0"



C
A4.5
BUILDING SECTION
THRU MECHANICAL ROOM
1/4" = 1'-0"

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Gilead Hill Elementary School
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Additions and Renovations
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A4.5



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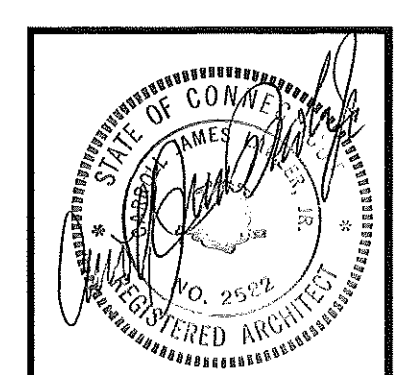
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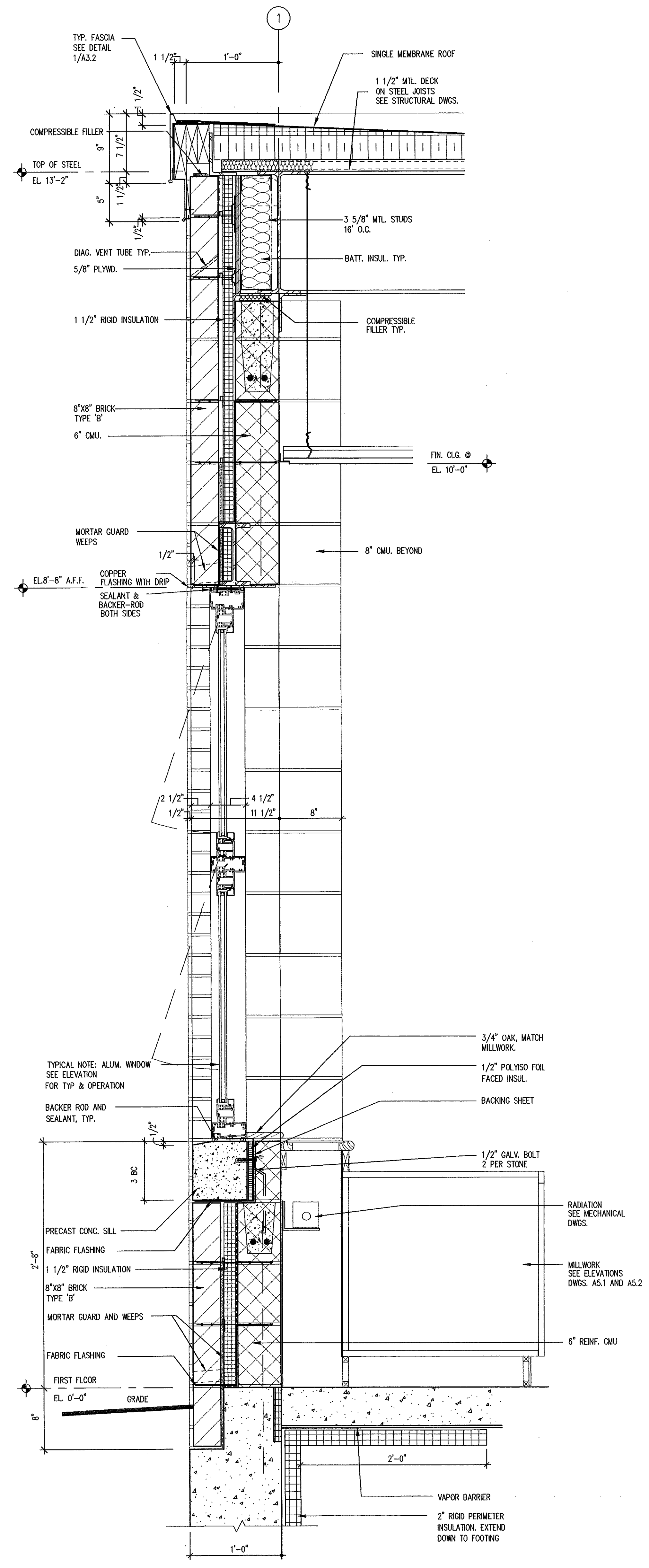
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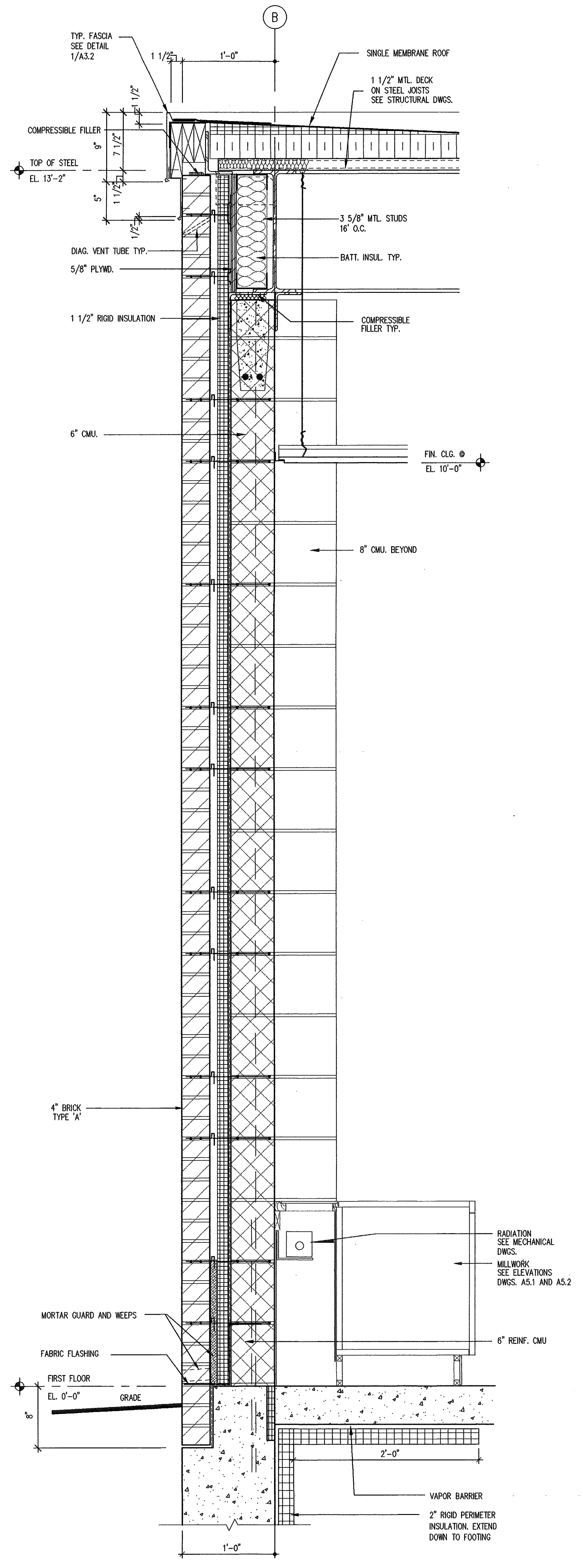
Gilead Hill Elementary School
 Hebron, Connecticut
 Additions and Renovations
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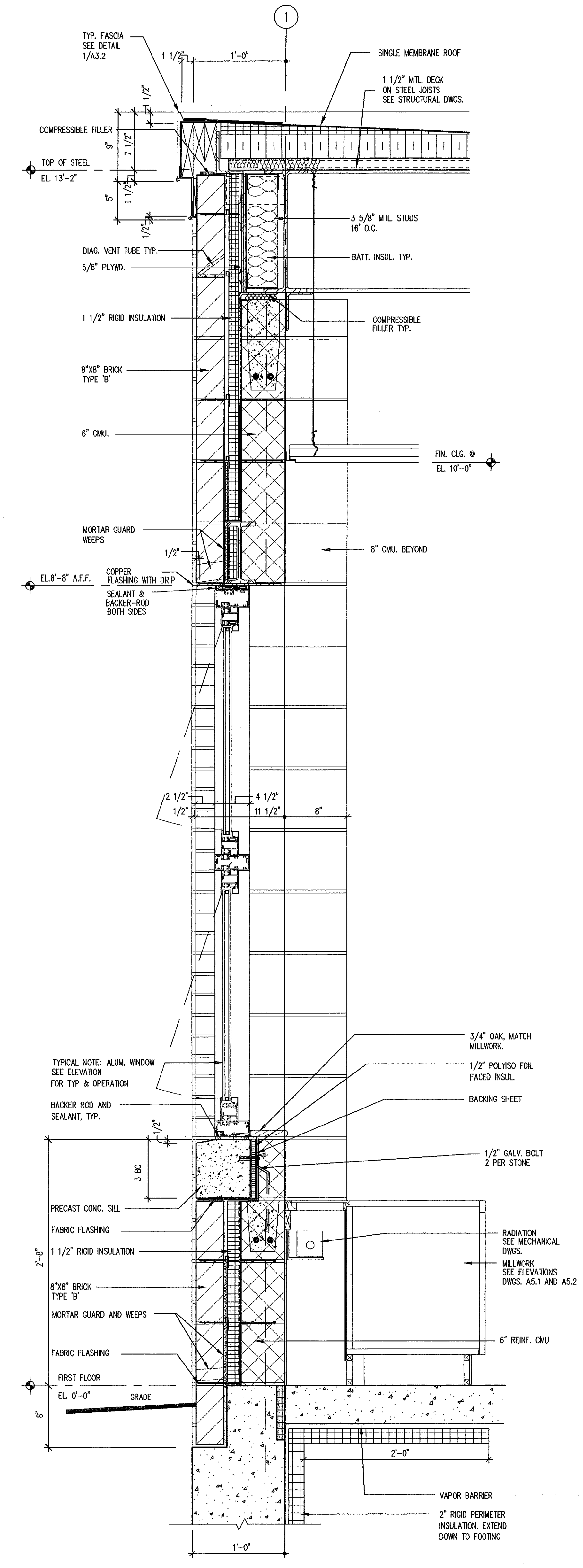
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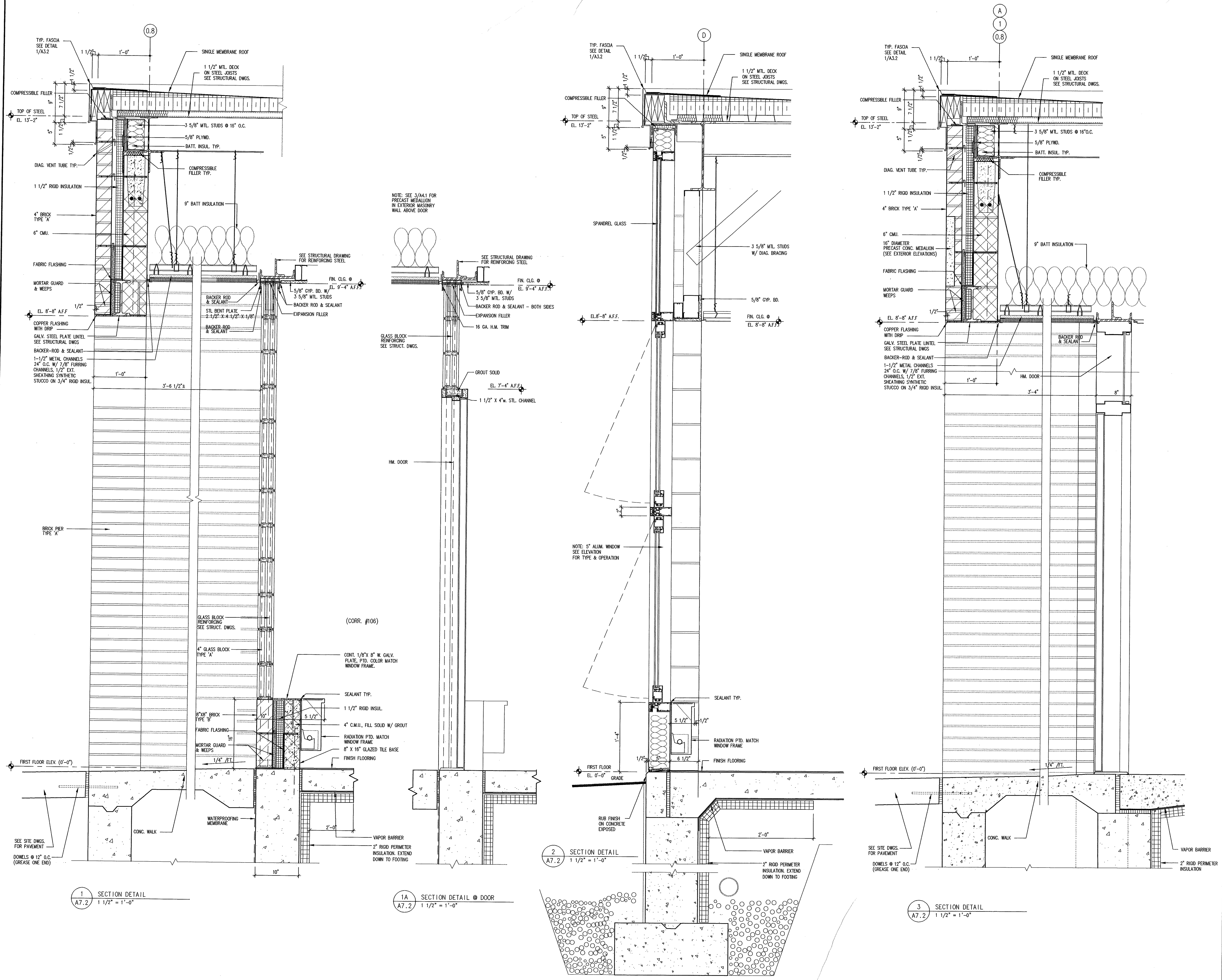
1 SECTION DETAIL
 A7.1 1 1/2" = 1'-0"



2 SECTION DETAIL
 A7.1 1 1/2" = 1'-0"



3 SECTION DETAIL
 A7.1 1 1/2" = 1'-0"



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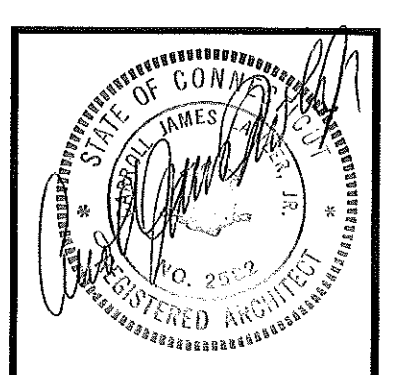
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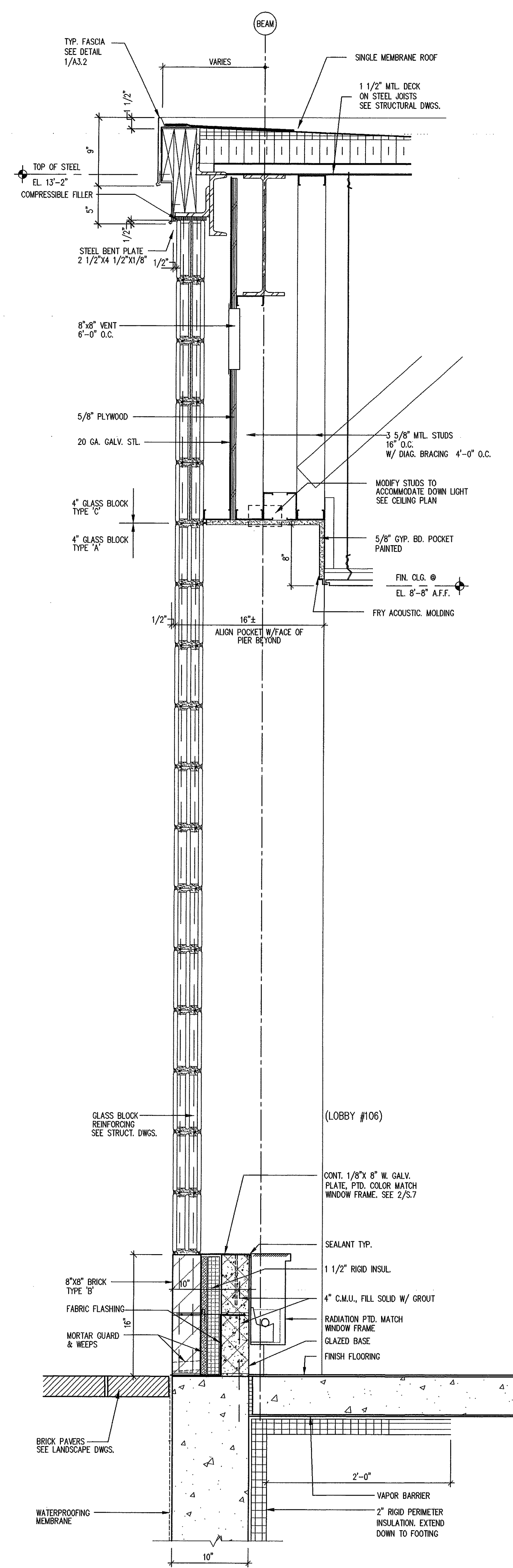
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Additions and Renovations

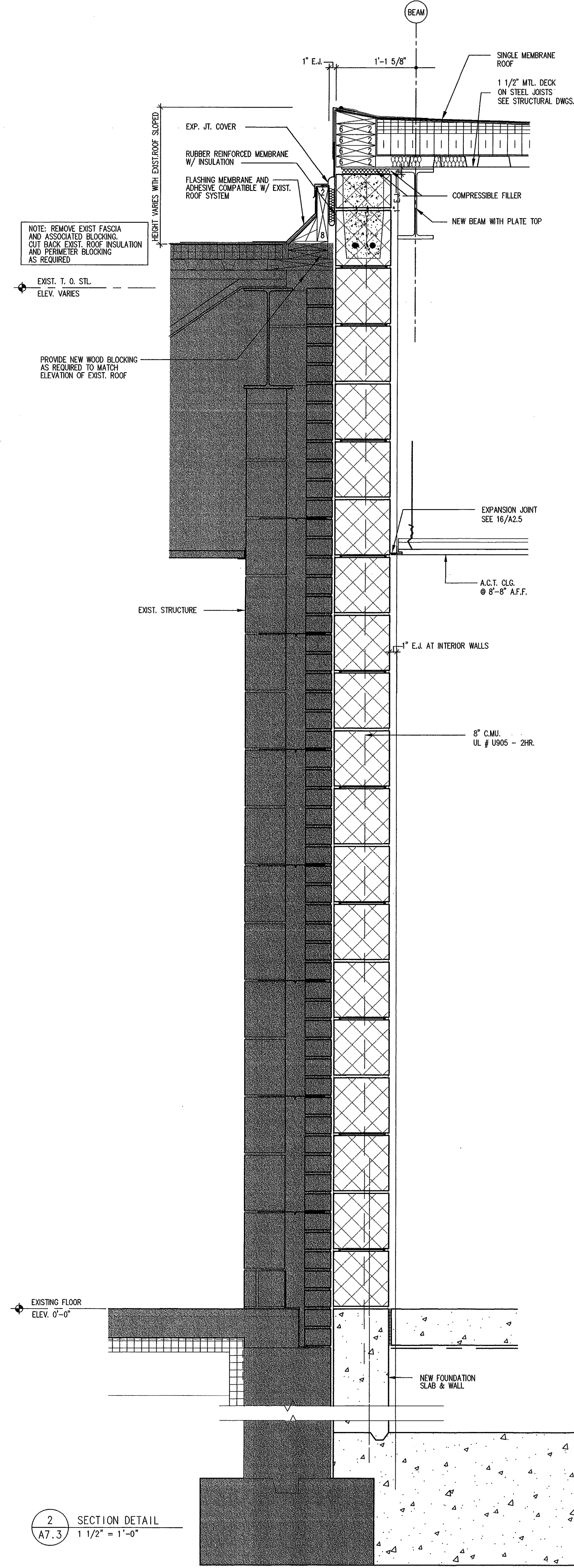
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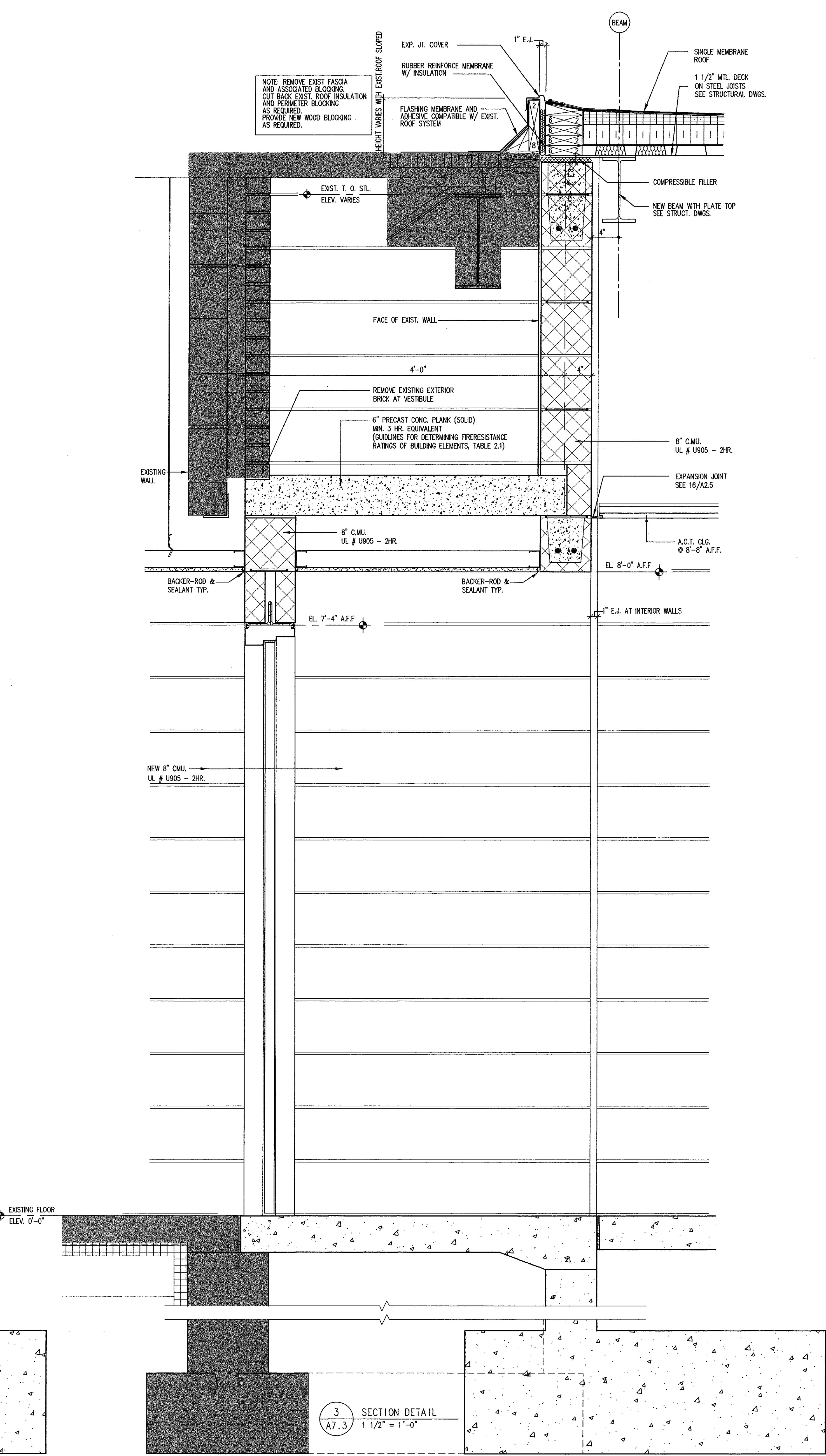
A7.2



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



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



3 SECTION DETAIL
1 1/2" = 1'-0"

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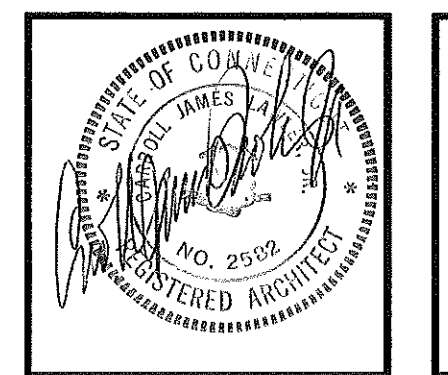
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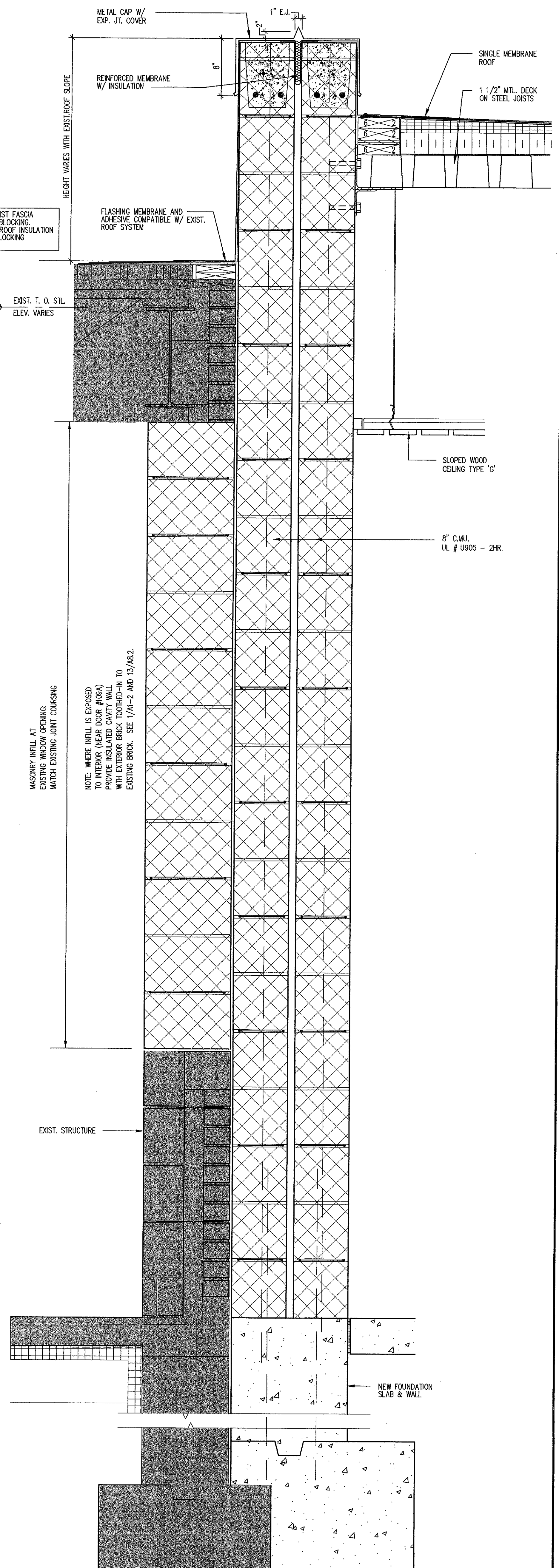
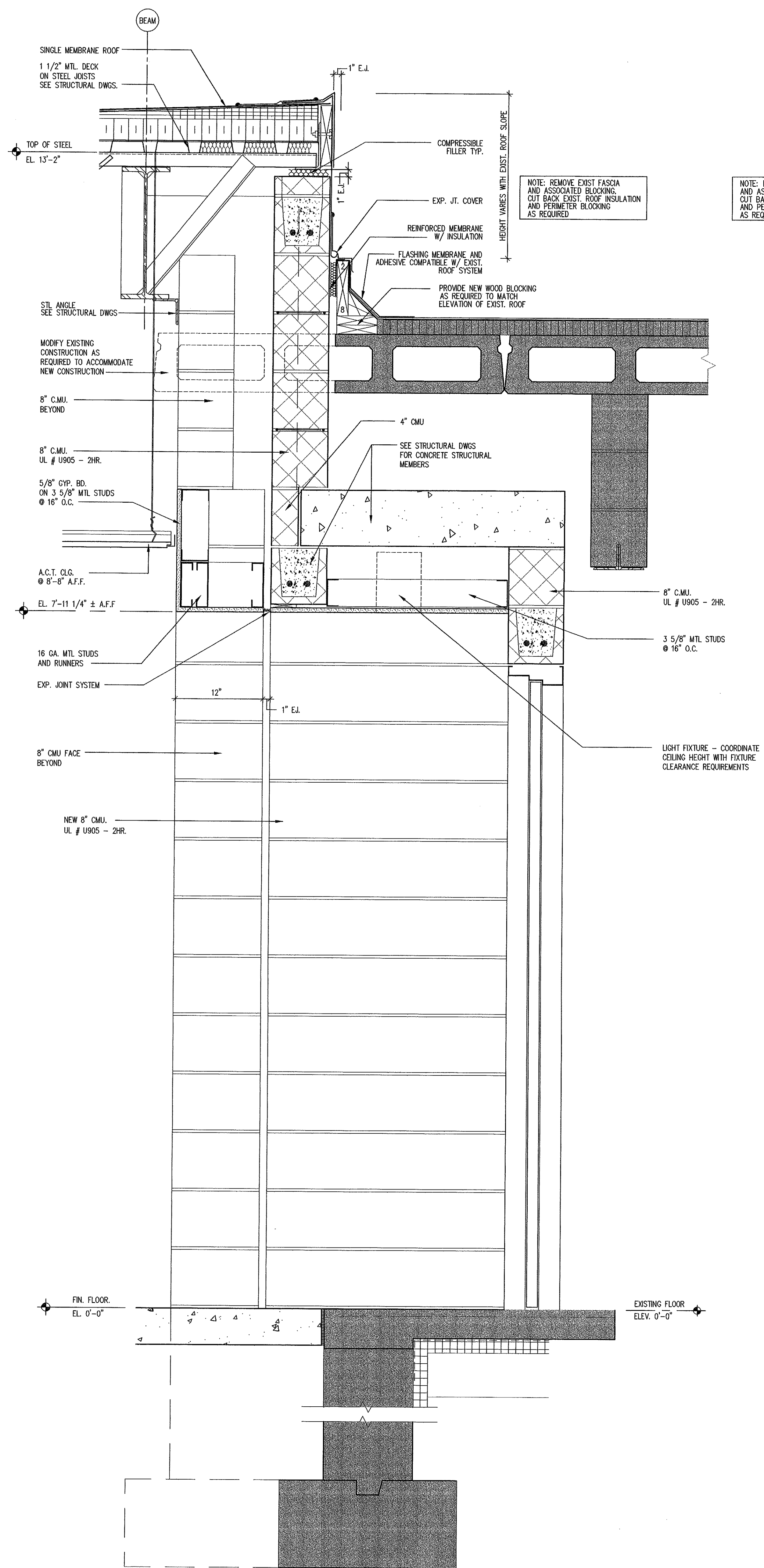
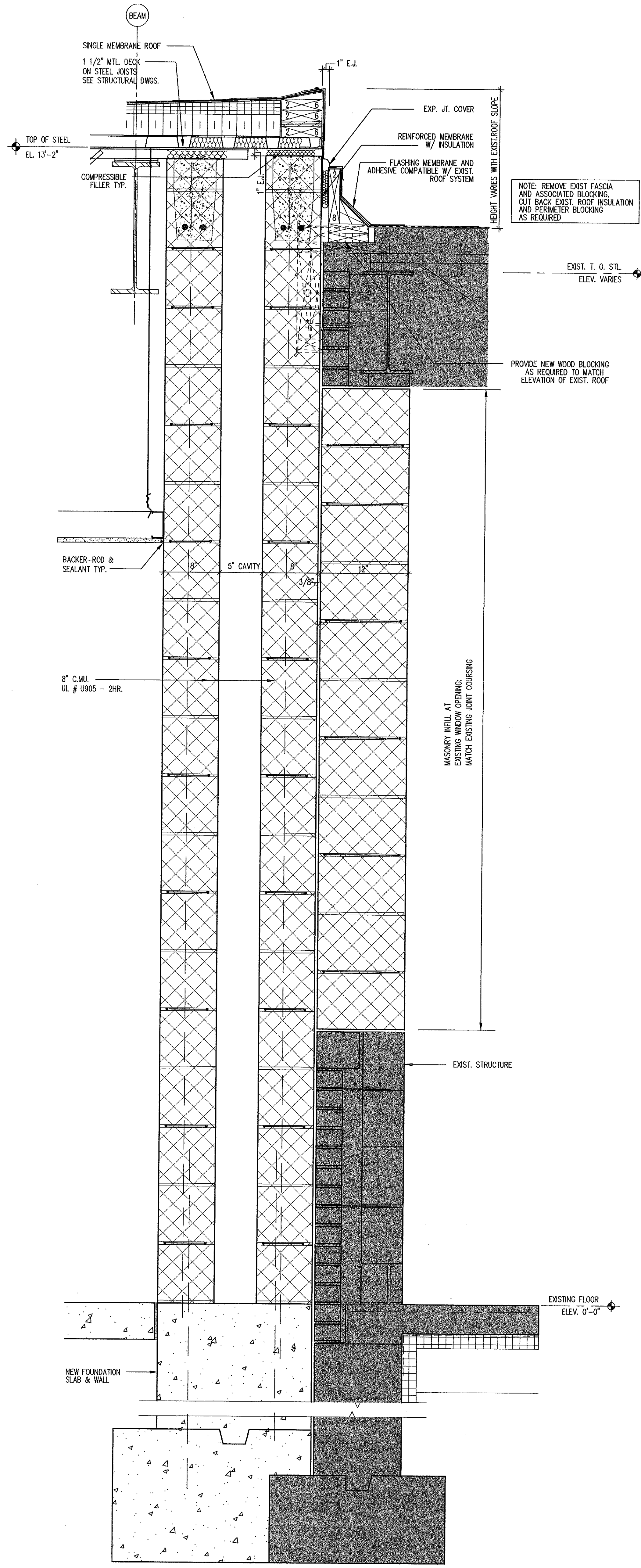
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Gilead Hill Elementary School
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Additions and Renovations
State Project Number #067-030-EA



A7.3



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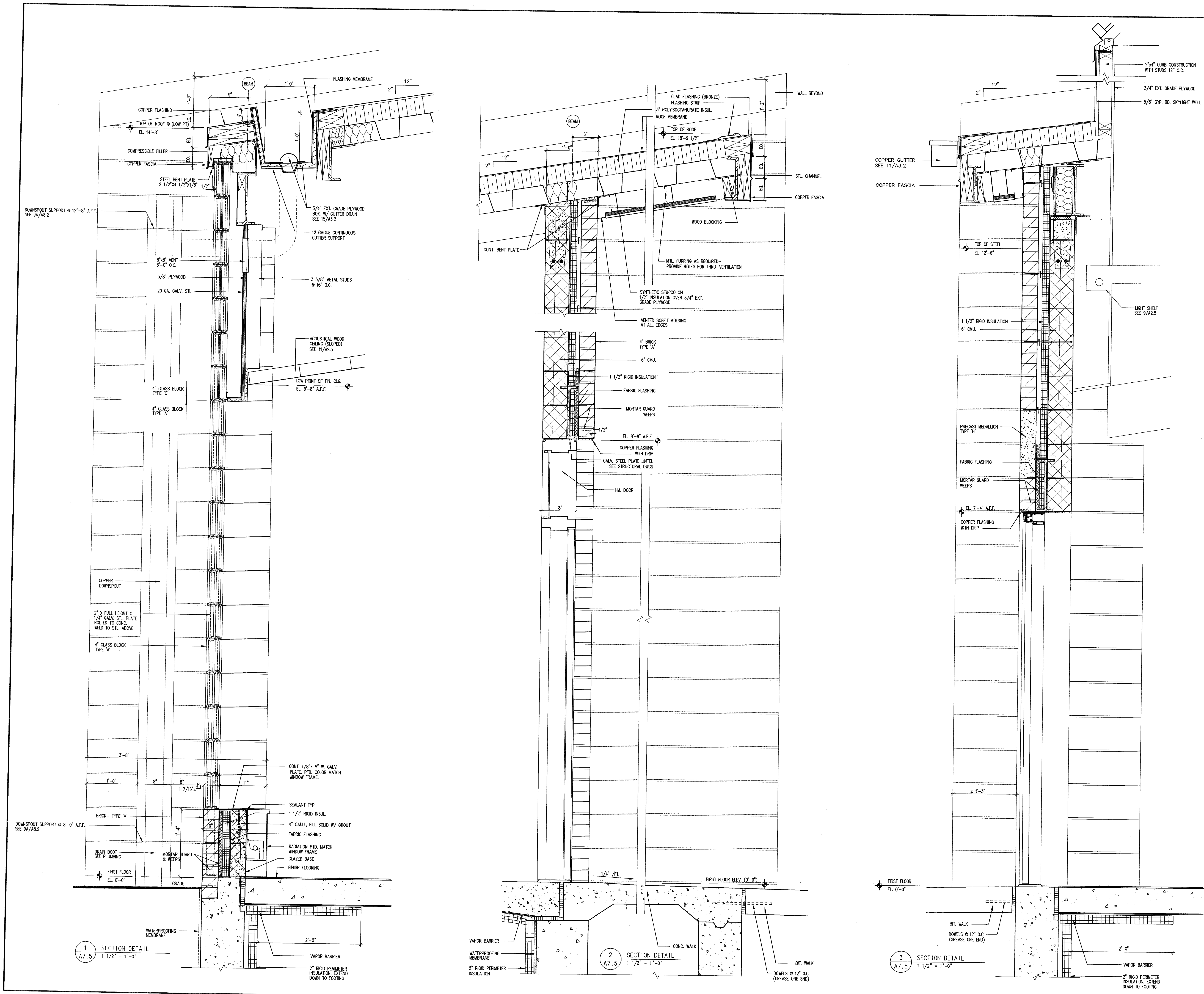
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Hebron, Connecticut
Additions and Renovations
State Project Number #067-030-EA

A7.4



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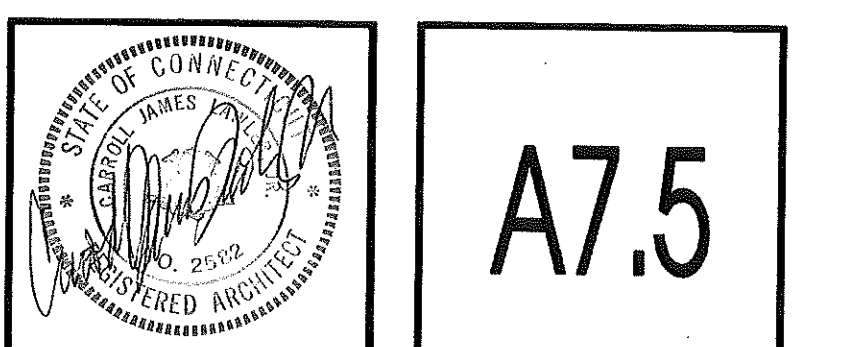
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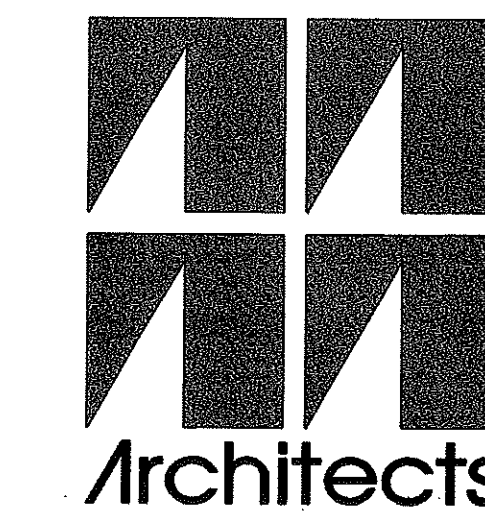
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Gilead Hill Elementary School
Hebron, Connecticut
Additions and Renovations
State Project Number #067-030-EA





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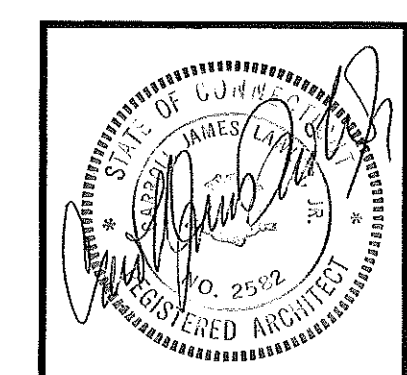
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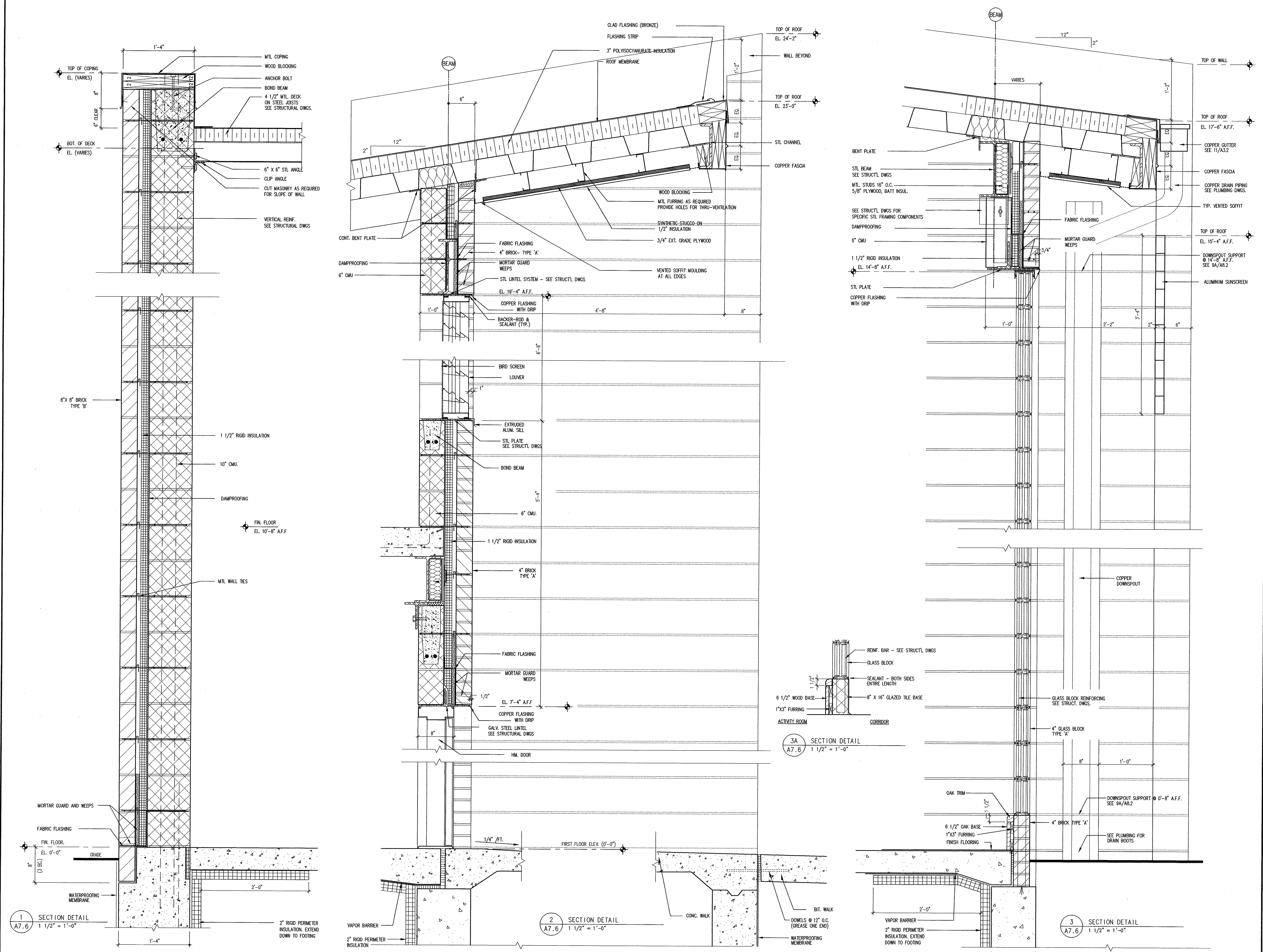
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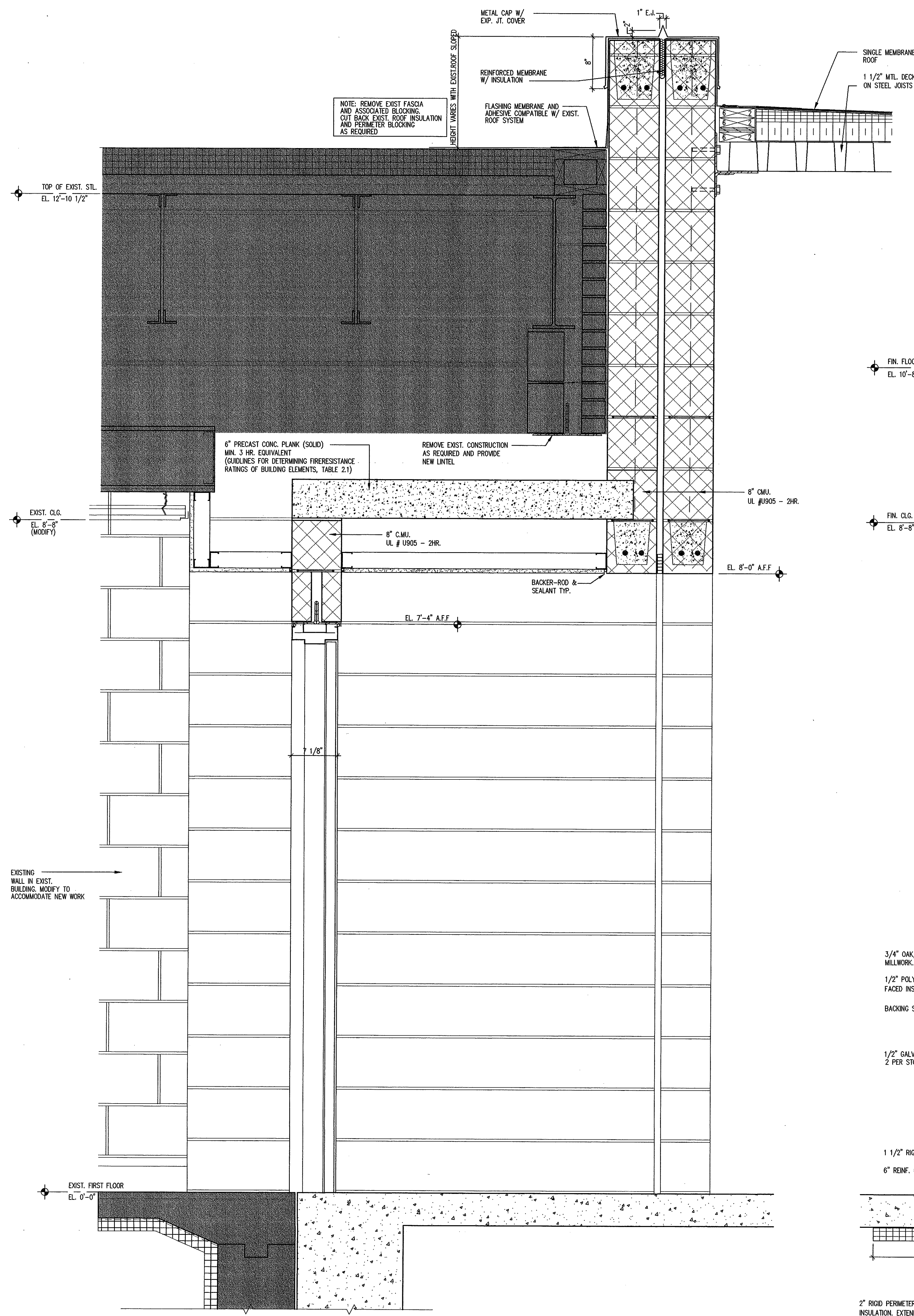
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Gilead Hill Elementary School
 Hebron, Connecticut
 Additions and Renovations
 State Project Number #067-030-EA

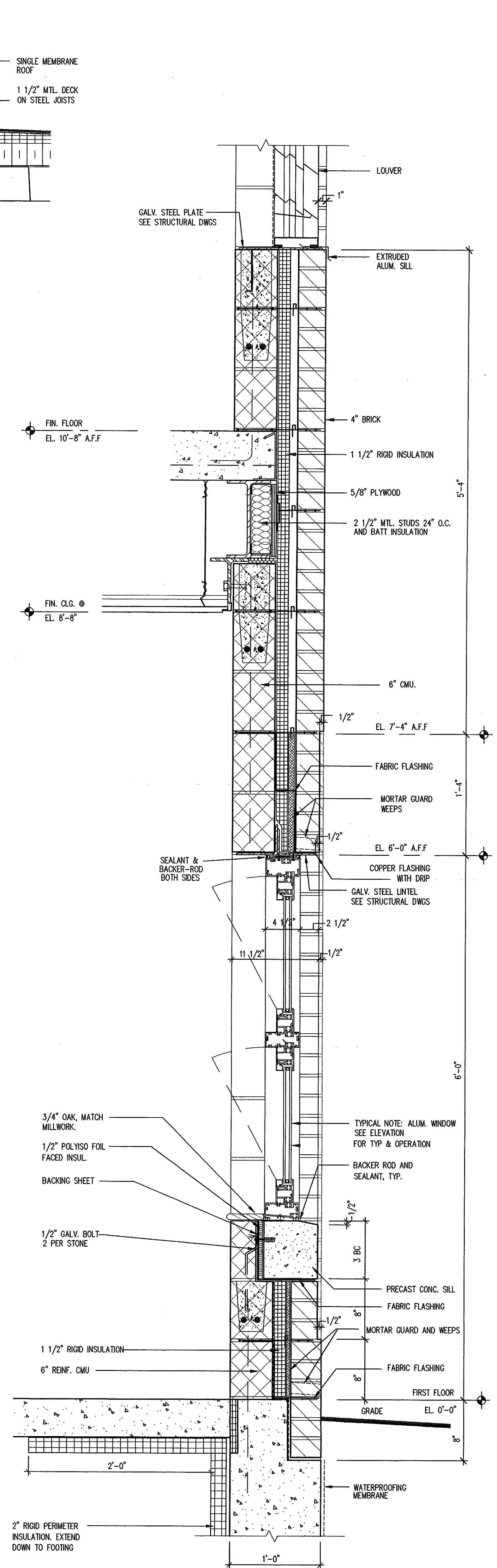


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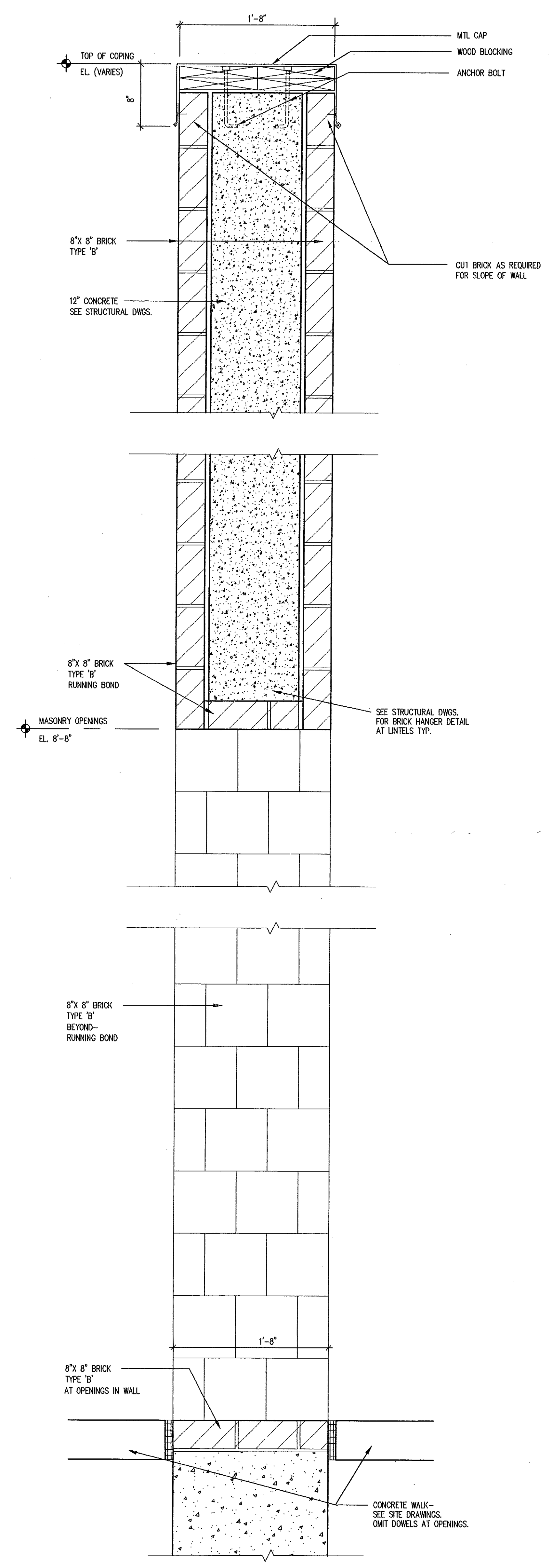




1 SECTION DETAIL
A7.7 1 1/2" = 1'-0"



2 SECTION DETAIL
A7.7 1 1/2" = 1'-0"



3 SECTION DETAIL
A7.7 1 1/2" = 1'-0"

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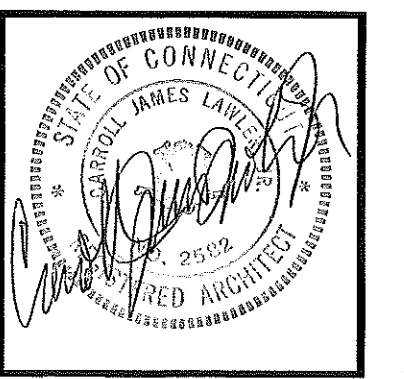
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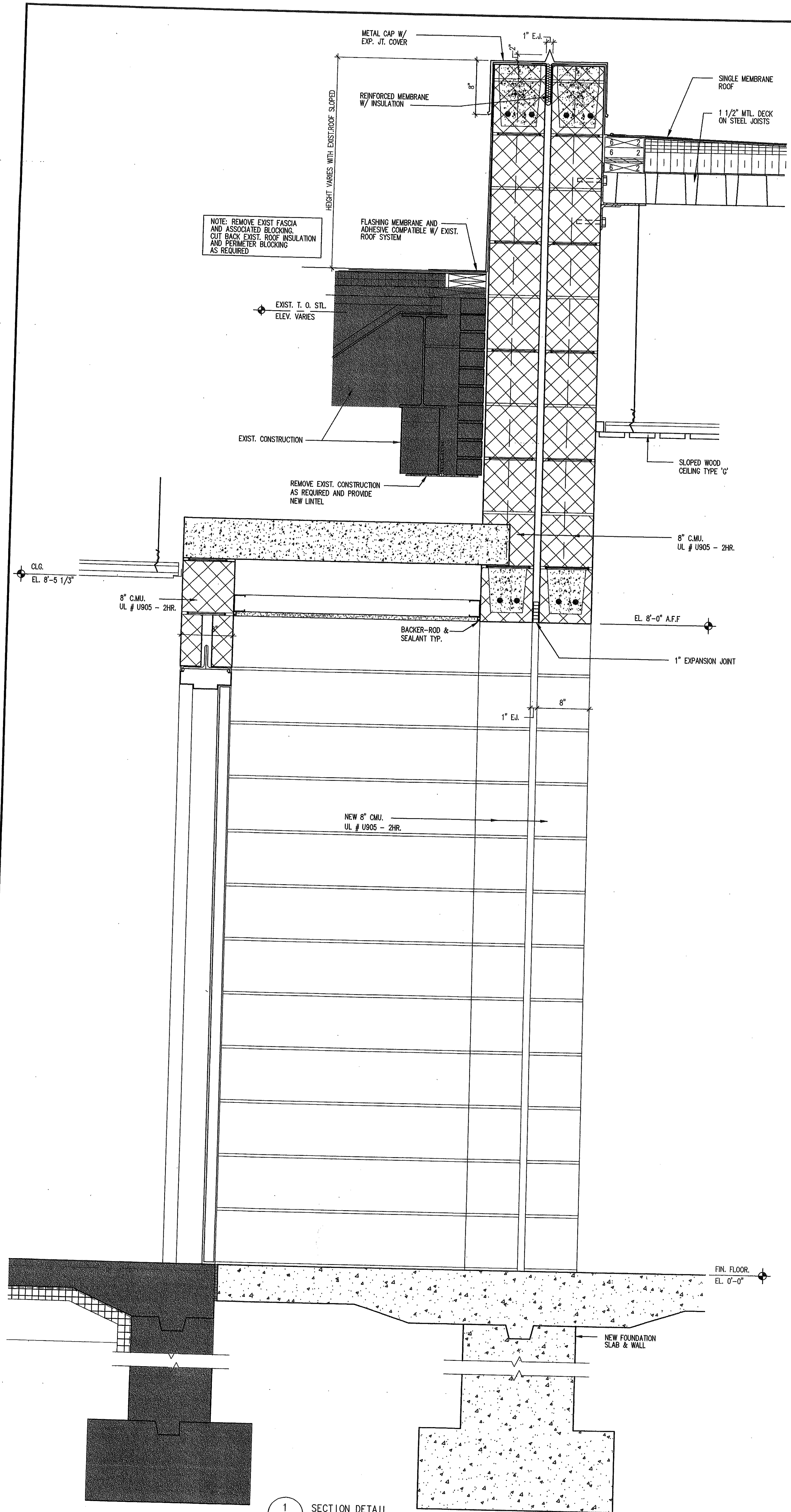
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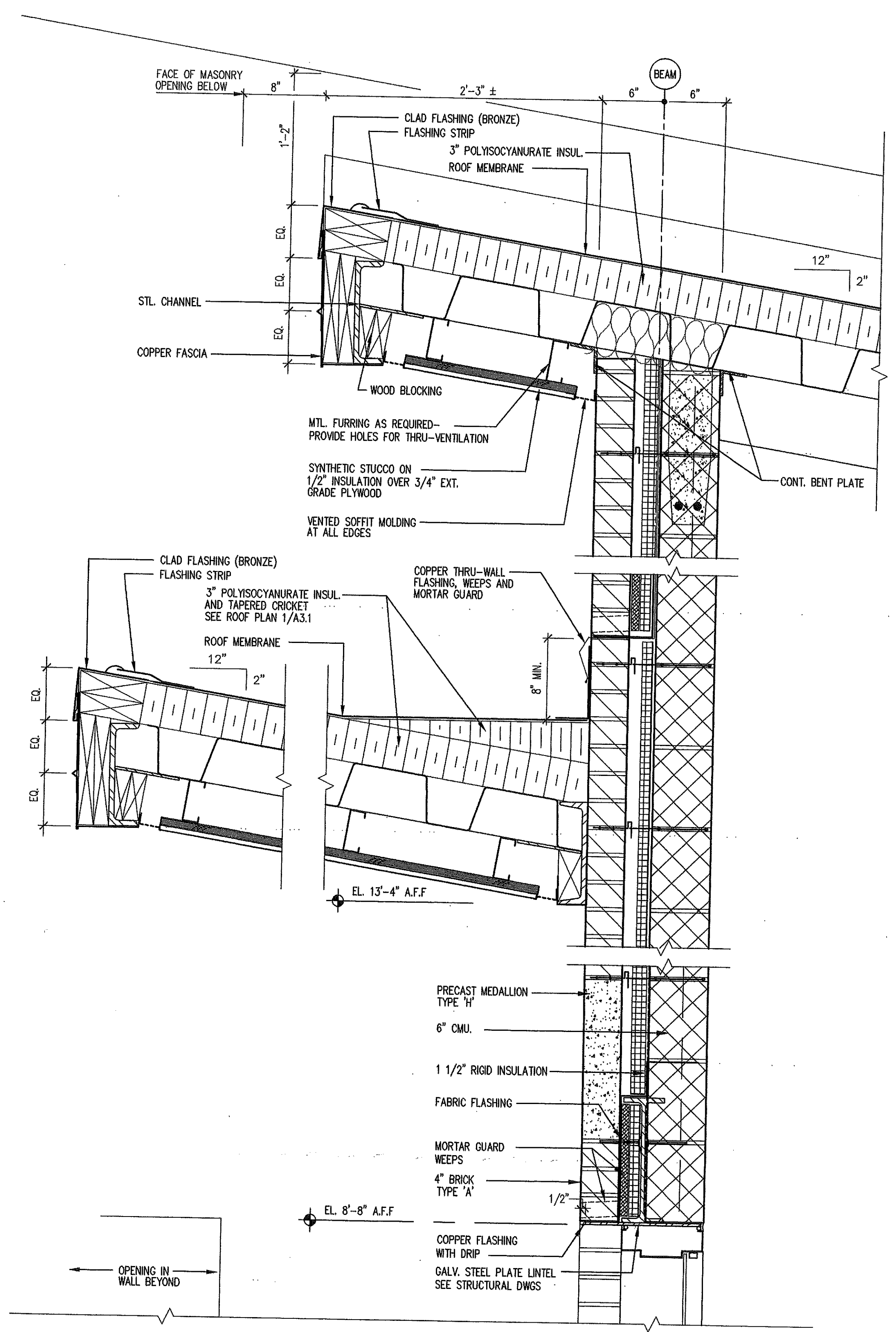
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 Additions and Renovations
 State Project Number #067-030-EA



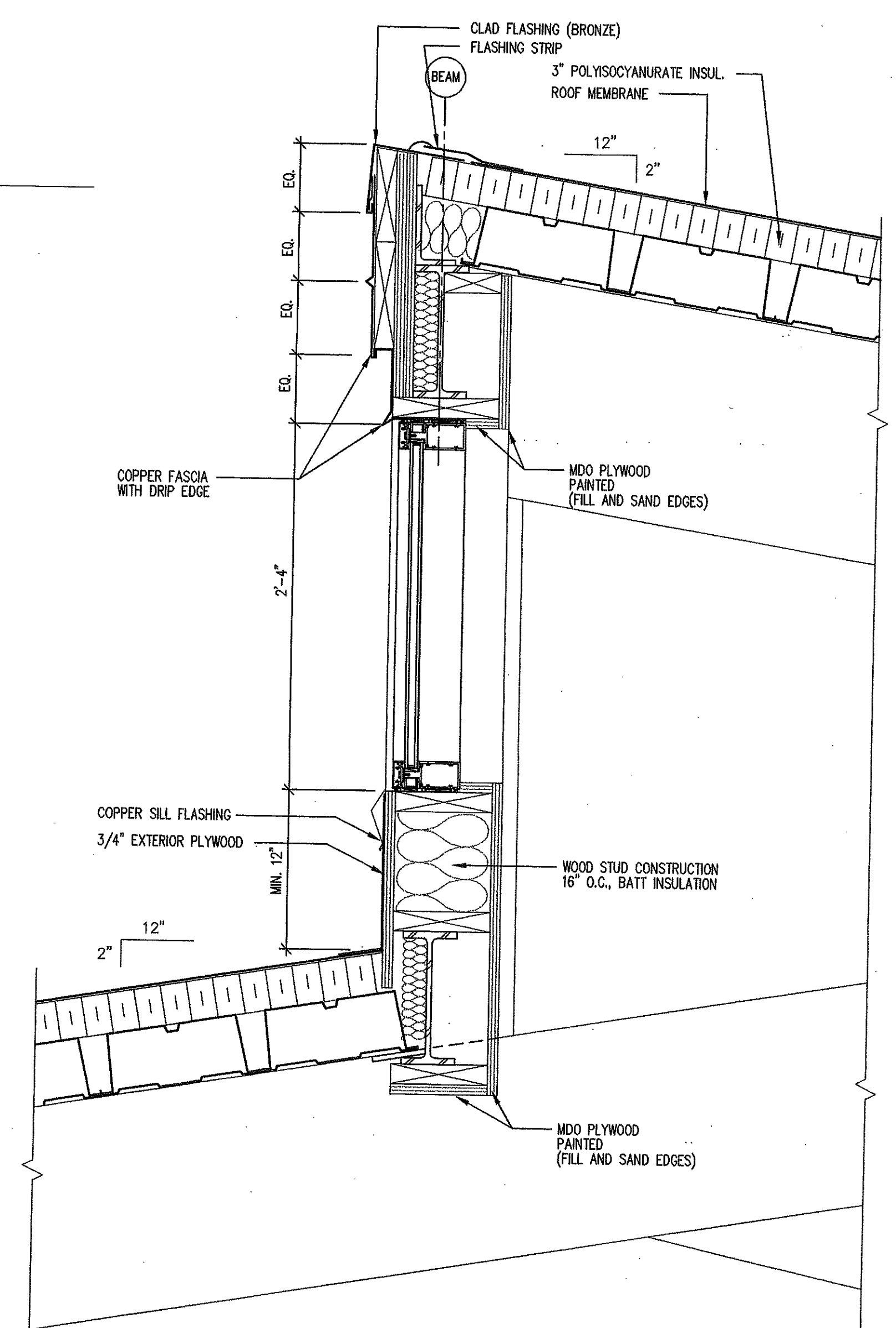
A7.7



1 SECTION DETAIL
A7.8 1 1/2" = 1'-0"



2 SECTION DETAIL
A7.8 1 1/2" = 1'-0"



3 SECTION DETAIL
A7.8 1 1/2" = 1'-0"



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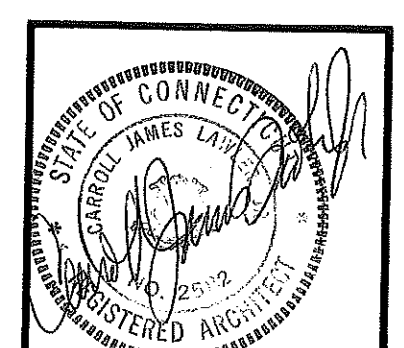
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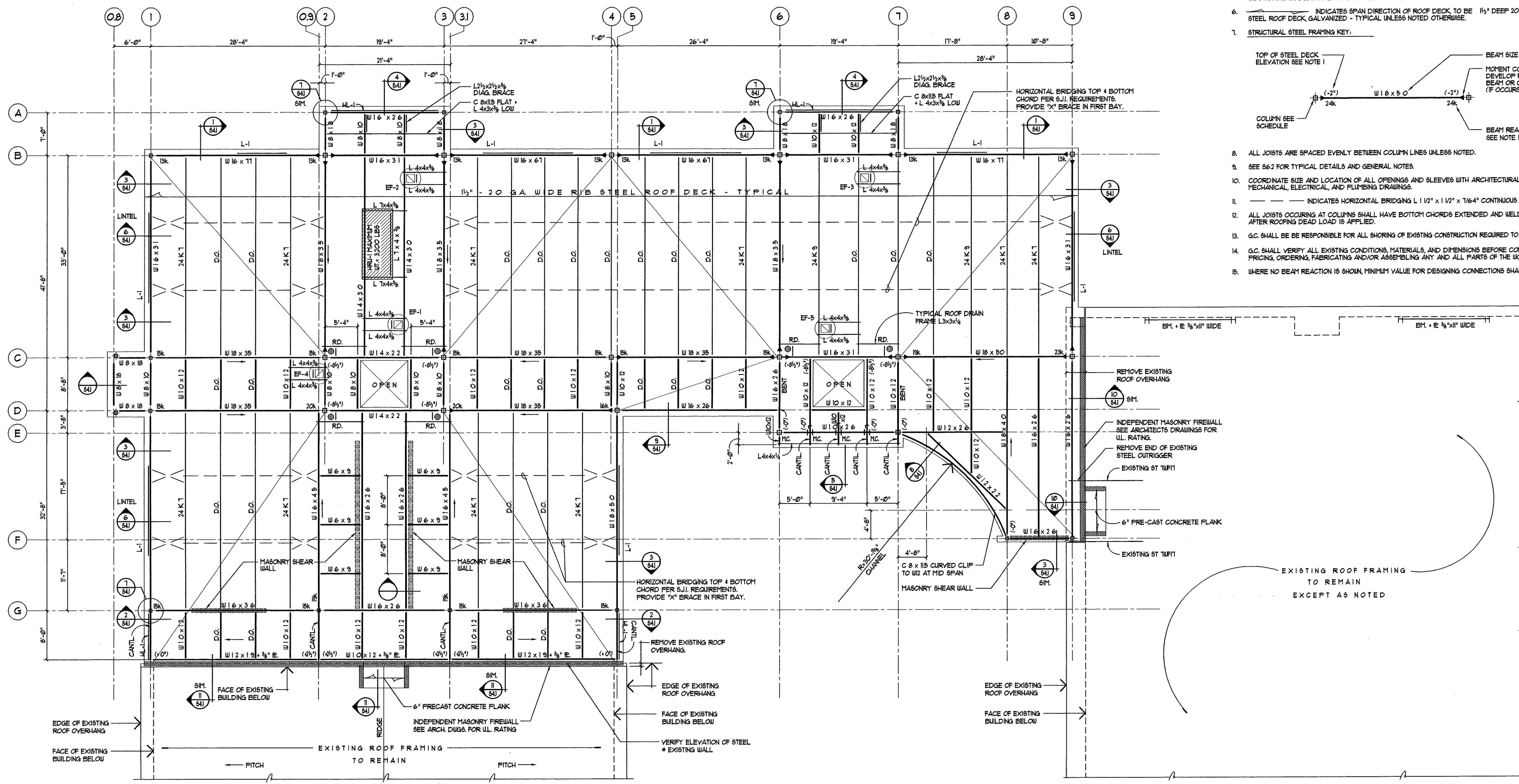
No.	Description	Date
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Gilead Hill Elementary School
Hebron, Connecticut
Additions and Renovations
State Project Number
#067-030-EA



A7.8

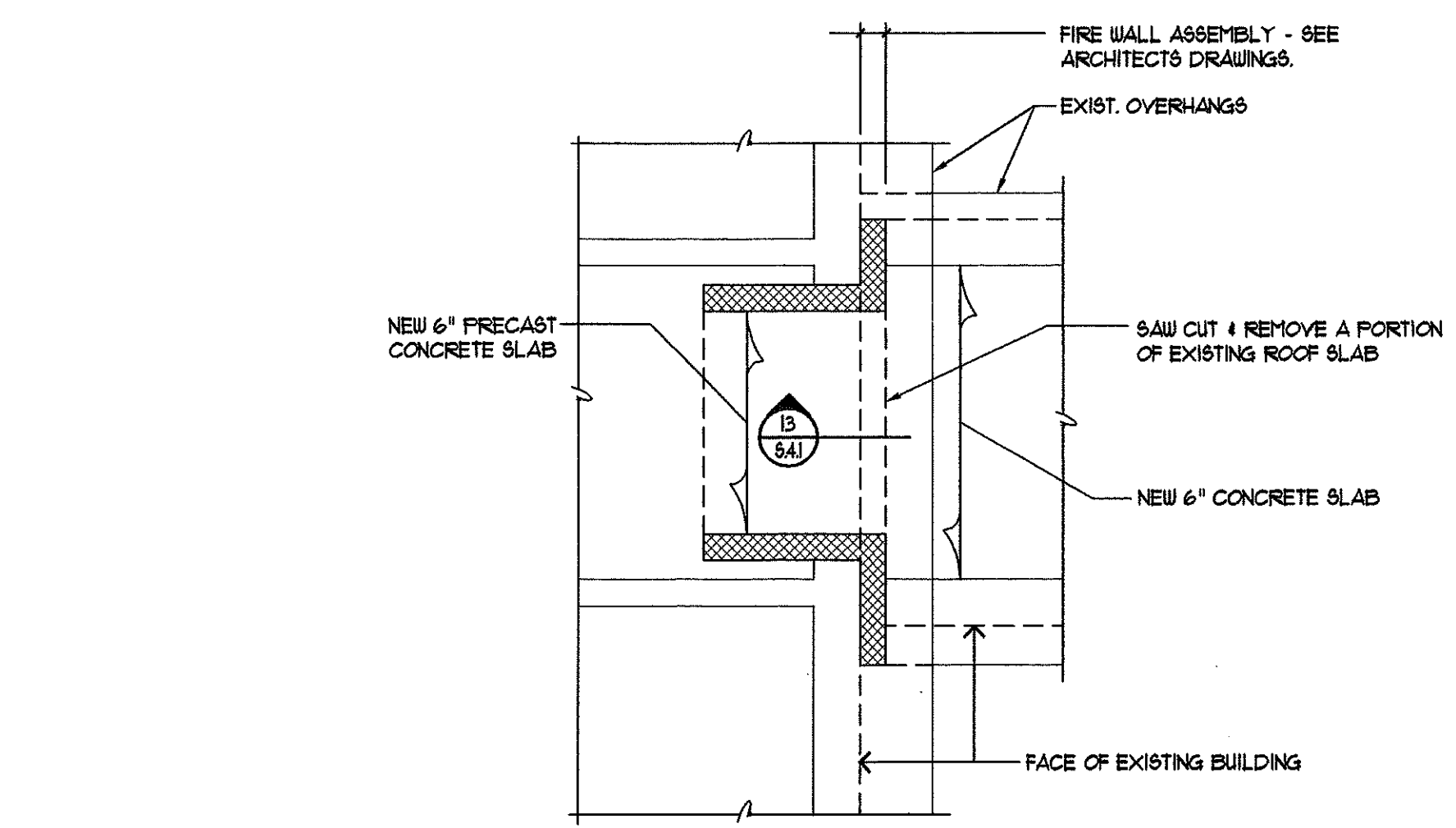
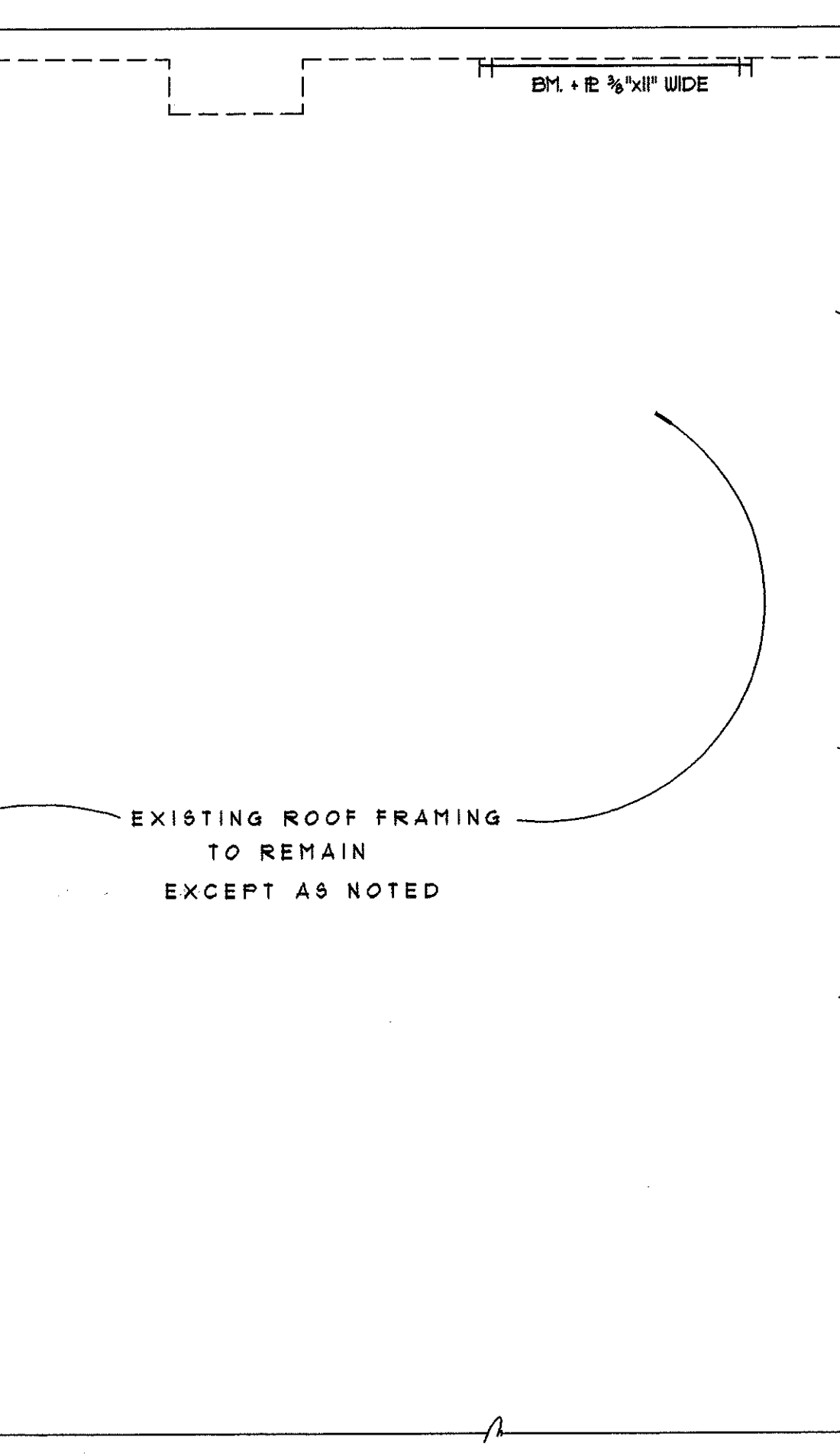


ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

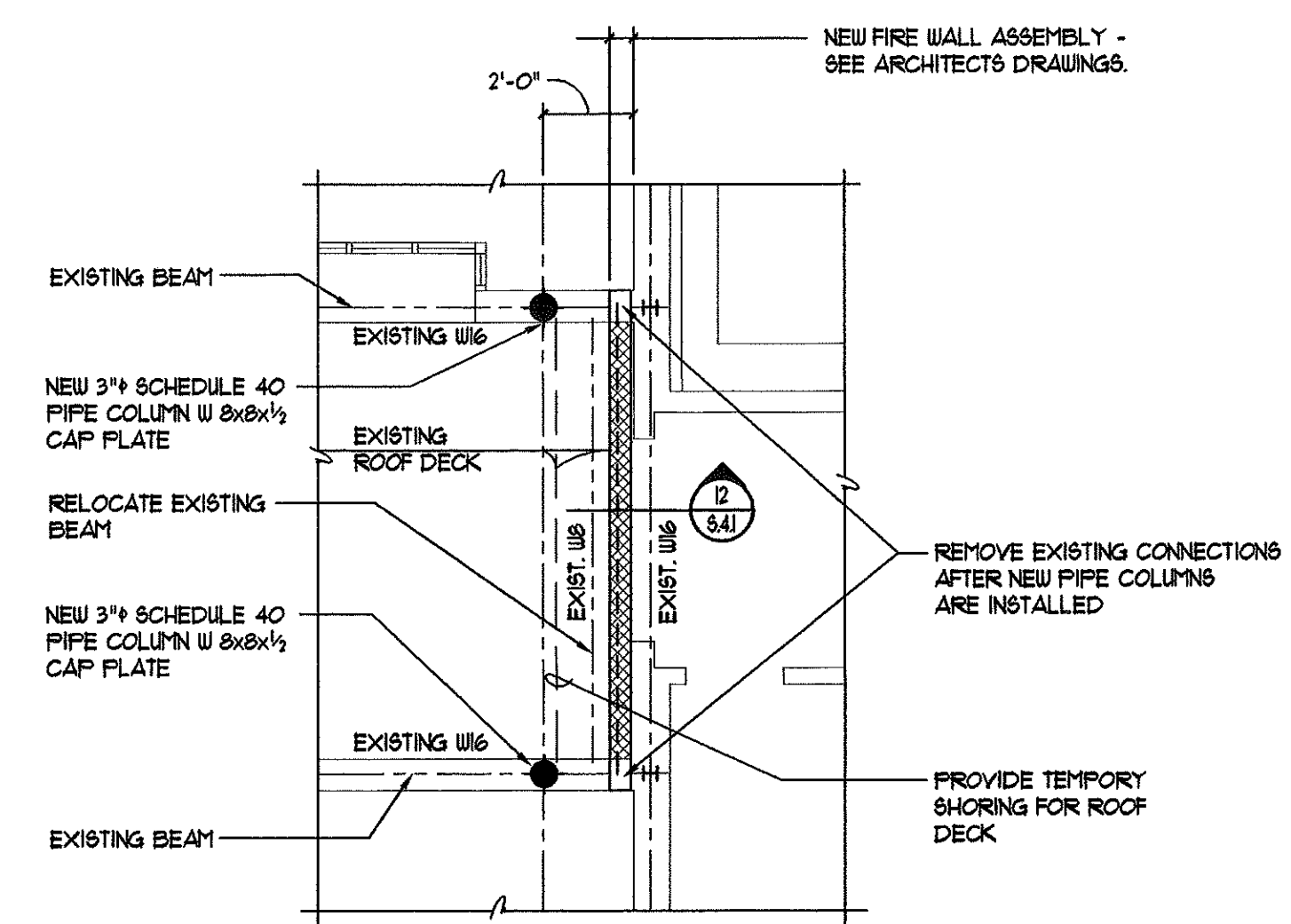
- TOP OF STEEL ROOF DECK ELEVATION + (4'-3 1/2") FROM TOP OF SLAB REFERENCE ELEVATION + (6'3 1/2') UNLESS TOP OF STEEL ROOF DECK ELEVATION AT COLUMN CENTERLINE NOTED (1) THIS FROM TOP OF STEEL ROOF DECK ELEVATION + (6'3 1/2'). SEE ARCHITECTURAL DRAWINGS FOR REFERENCE ELEVATIONS.
- TOP OF STEEL JOIST ELEVATION + 1/4" FROM TOP OF STEEL ROOF DECK.
- TOP OF STEEL FRAMING ELEVATION PERPENDICULAR TO STEEL ROOF JOISTS + 4" FROM TOP OF STEEL ROOF DECK.
- TOP OF STEEL FRAMING ELEVATION PARALLEL TO STEEL ROOF JOISTS + 1/4" FROM TOP OF STEEL ROOF DECK.
- TOP OF STEEL ELEVATION OF BEAMS PARALLEL TO JOISTS TO MATCH SLOPE OF JOIST BETWEEN SUPPORTING GIRDERS AT EACH END UNLESS NOTED.
- INDICATES SPAN DIRECTION OF ROOF DECK TO BE 1/2" DEEP 20 GAGE WIDE RIB STEEL ROOF DECK GALVANIZED - TYPICAL UNLESS NOTED OTHERWISE.
- STRUCTURAL STEEL FRAMING KEY:
 - TOP OF STEEL DECK ELEVATION SEE NOTE 1
 - BEAM SIZE
 - MOMENT CONNECTION TO DEVELOP FULL CAPACITY OF BEAM OR GIRDER (IF OCCURS)
 - BEAM REACTION (IN KIPS) SEE NOTE 5
- ALL JOISTS ARE SPACED EVENLY BETWEEN COLUMN LINES UNLESS NOTED.
- SEE 862 FOR TYPICAL DETAILS AND GENERAL NOTES.
- COORDINATE SIZE AND LOCATION OF ALL OPENINGS AND SLEEVES WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
- INDICATES HORIZONTAL BRIDGING L 1/2" x 1 1/2" x 1/4" CONTINUOUS TOP & BOTTOM
- ALL JOISTS OCCURRING AT COLUMNS SHALL HAVE BOTTOM CHORDS EXTENDED AND WELDED TO COLUMNS AFTER ROOFING DEAD LOAD IS APPLIED.
- G.C. SHALL BE RESPONSIBLE FOR ALL SHORING OF EXISTING CONSTRUCTION REQUIRED TO SAFELY COMPLETE THE WORK.
- G.C. SHALL VERIFY ALL EXISTING CONDITIONS, MATERIALS, AND DIMENSIONS BEFORE COMPLETING PRICING, ORDERING, FABRICATING AND/OR ASSEMBLING ANY AND ALL PARTS OF THE WORK.
- WHERE NO BEAM REACTION IS SHOWN, MINIMUM VALUE FOR DESIGNING CONNECTIONS SHALL BE 12 K.



FRAMING PART PLAN "A"

1/4" = 1'-0"

1
S2.1



FRAMING PART PLAN "B"

1/4" = 1'-0"

2
S2.1

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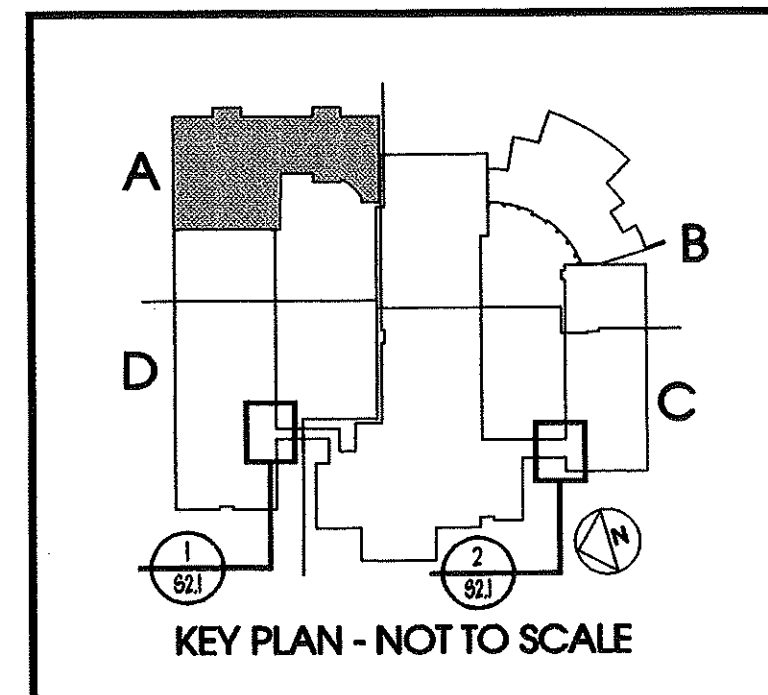
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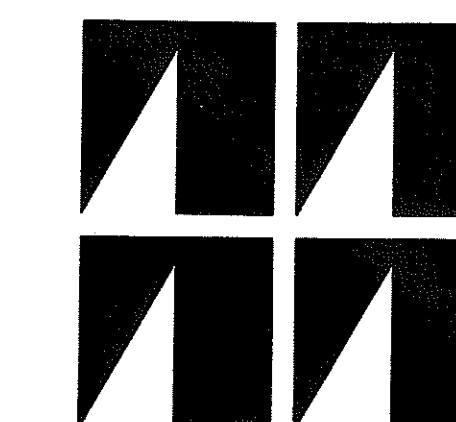


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ROOF FRAMING PLAN AREA - A
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Gleed Hill Elementary School
 Hebron, Connecticut
 Additions and Renovations
 State Project Number 067-030-EA

S2.1



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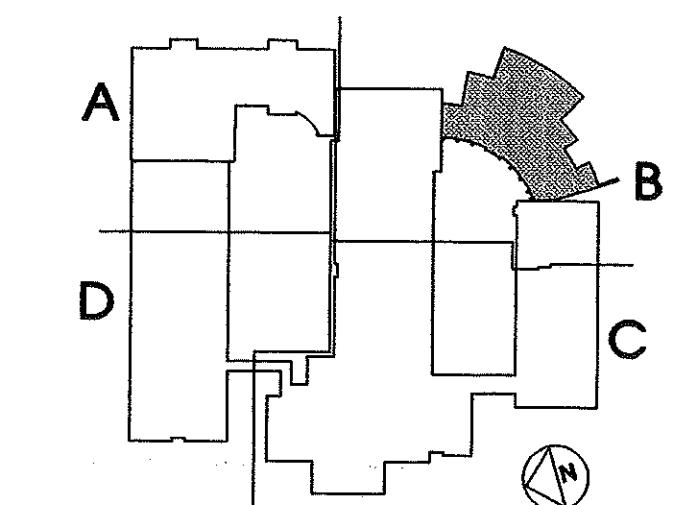
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KEY PLAN - NOT TO SCALE

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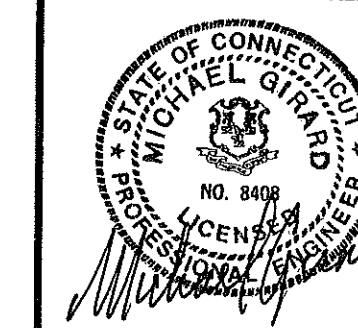
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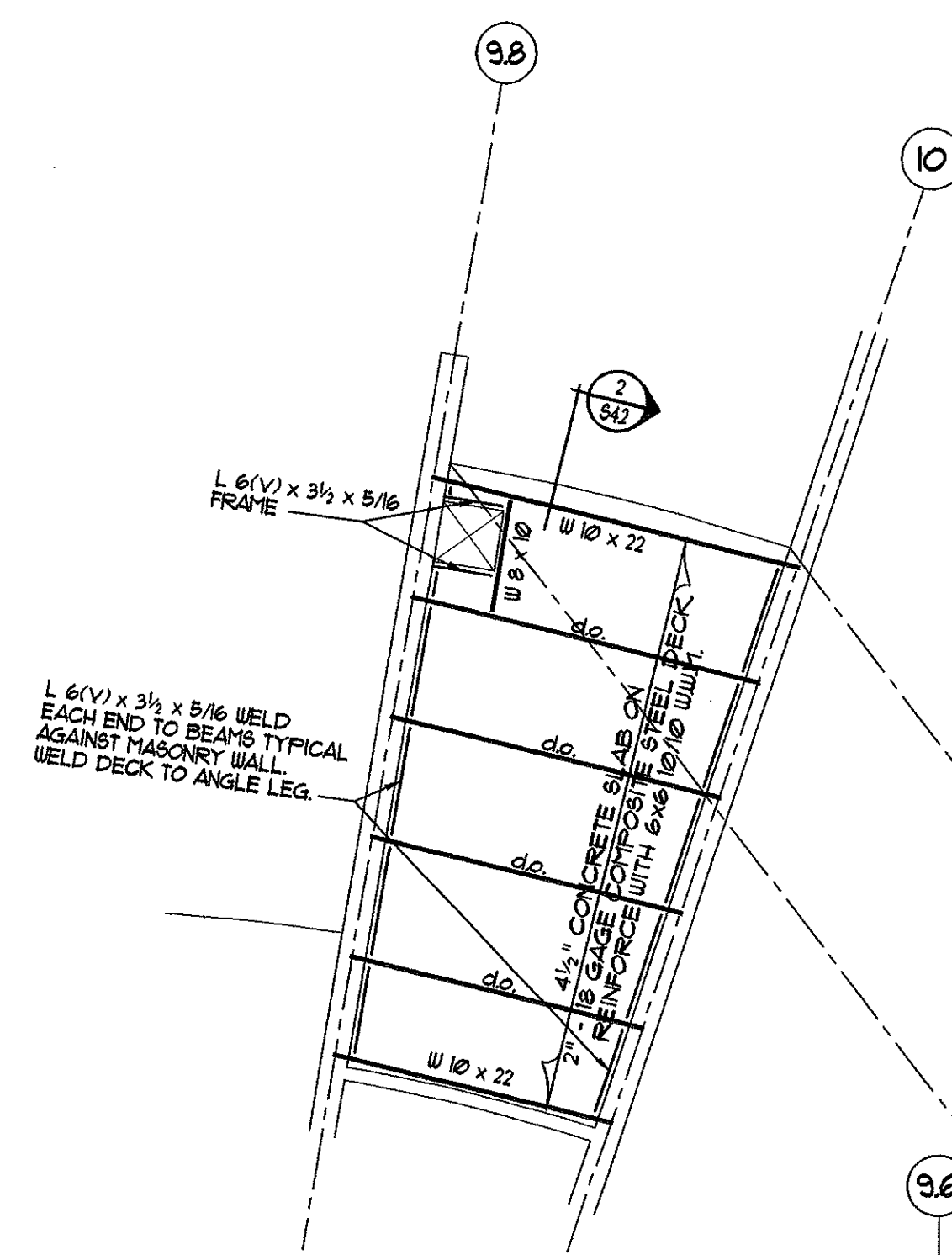
Gleed Hill
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 Hebron, Connecticut

Additions and
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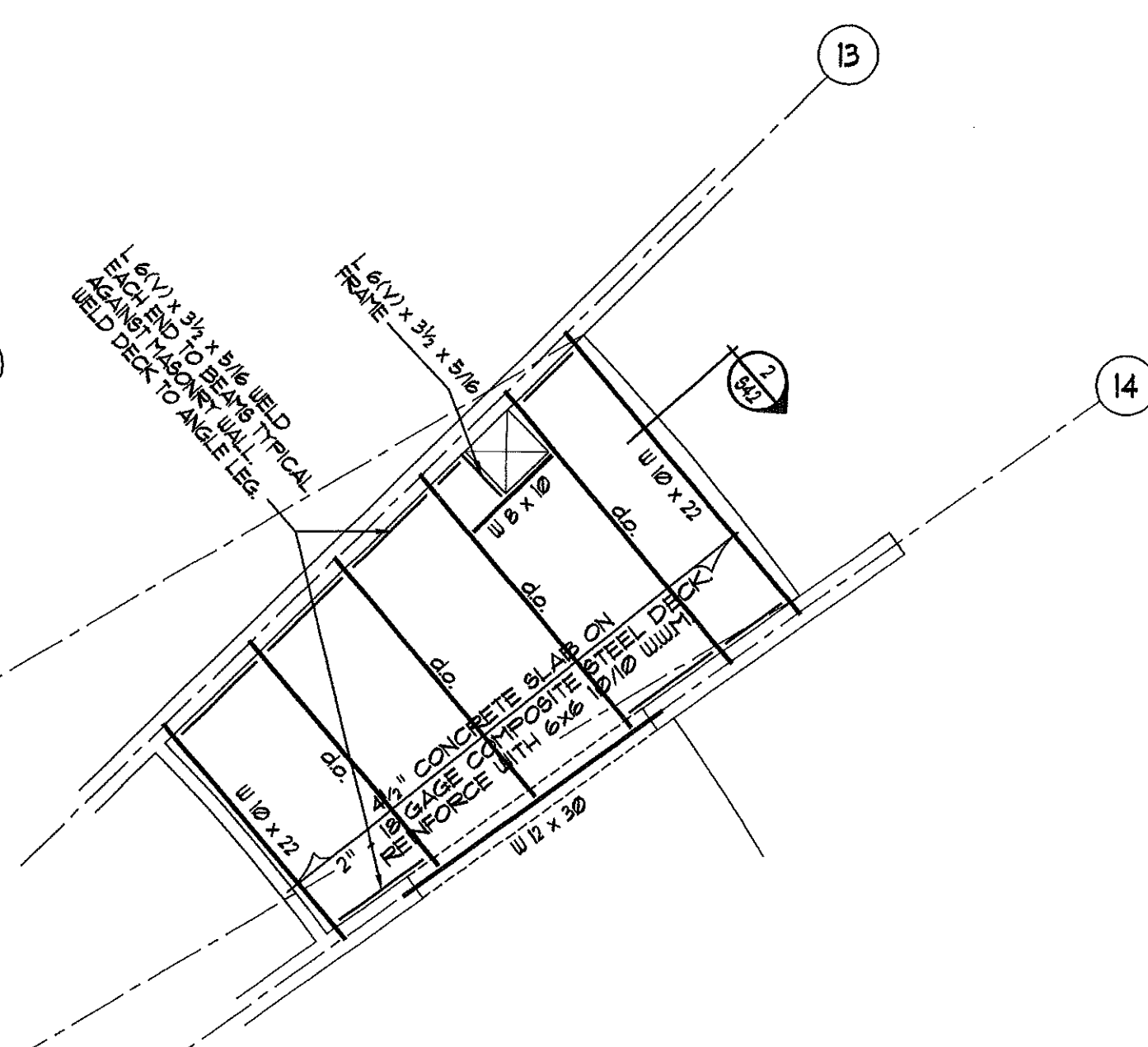
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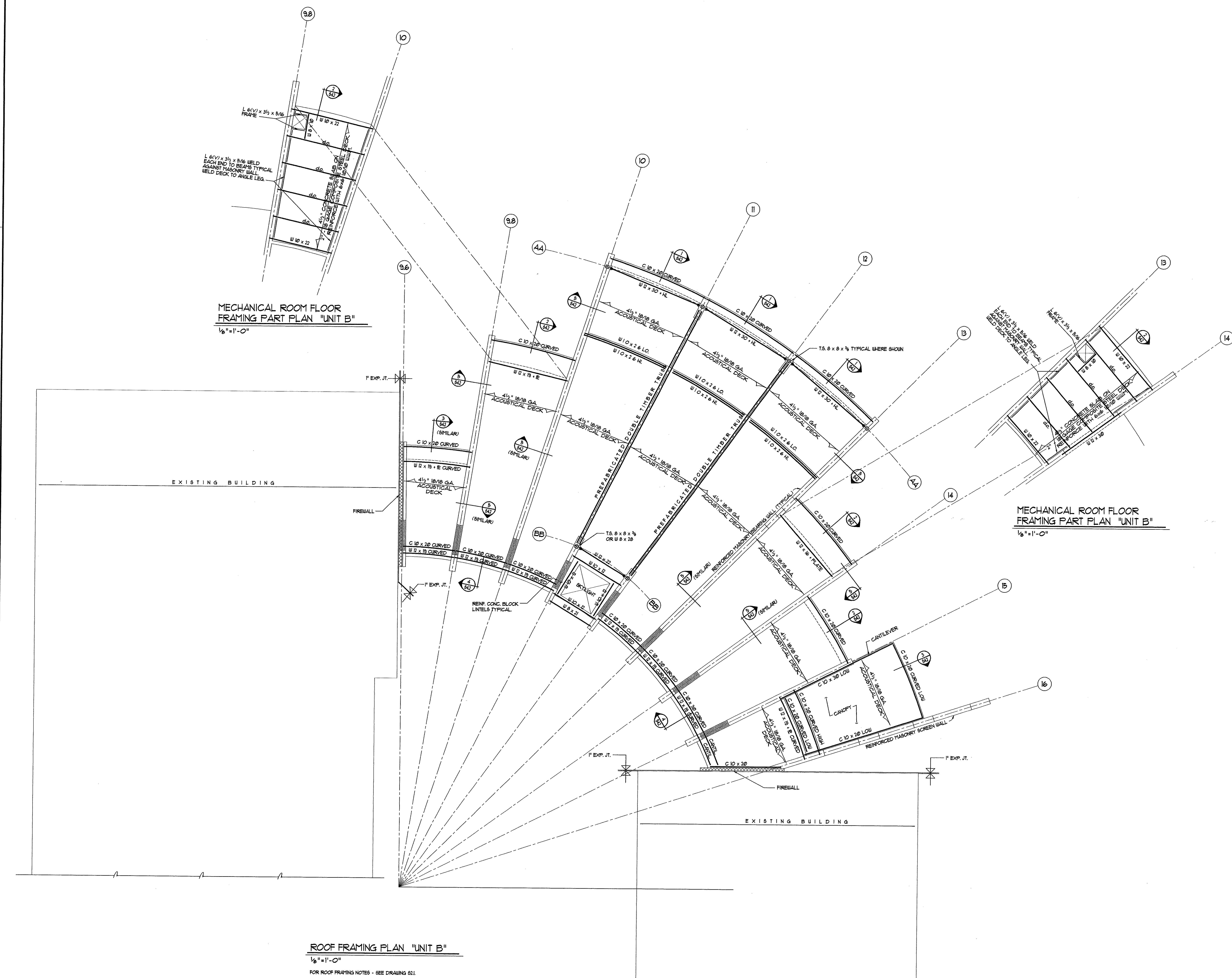
S2.2



MECHANICAL ROOM FLOOR
 FRAMING PART PLAN "UNIT B"
 1/8"=1'-0"



MECHANICAL ROOM FLOOR
 FRAMING PART PLAN "UNIT B"
 1/8"=1'-0"



ROOF FRAMING PLAN "UNIT B"
 1/8"=1'-0"
 FOR ROOF FRAMING NOTES - SEE DRAWING 52L

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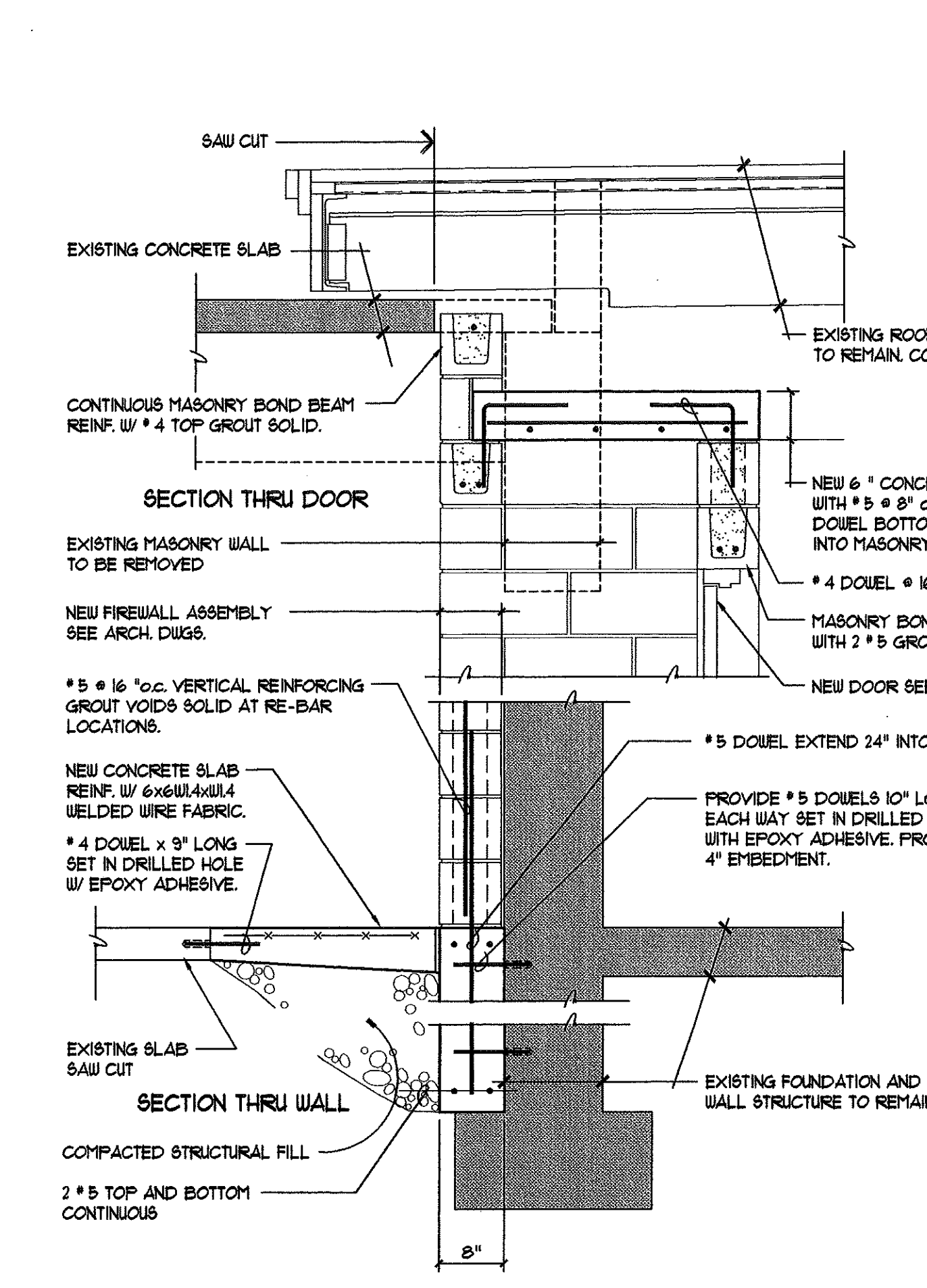
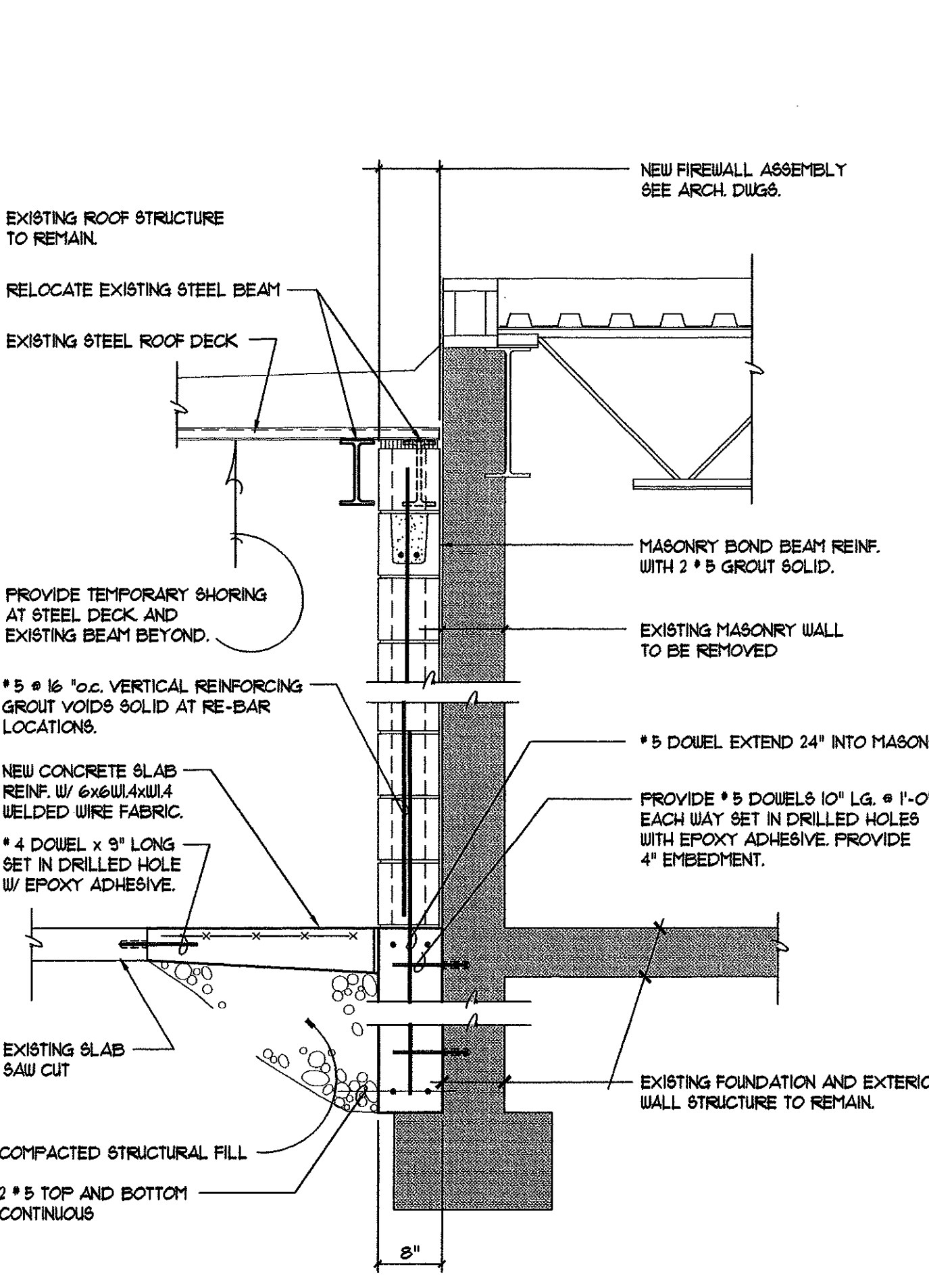
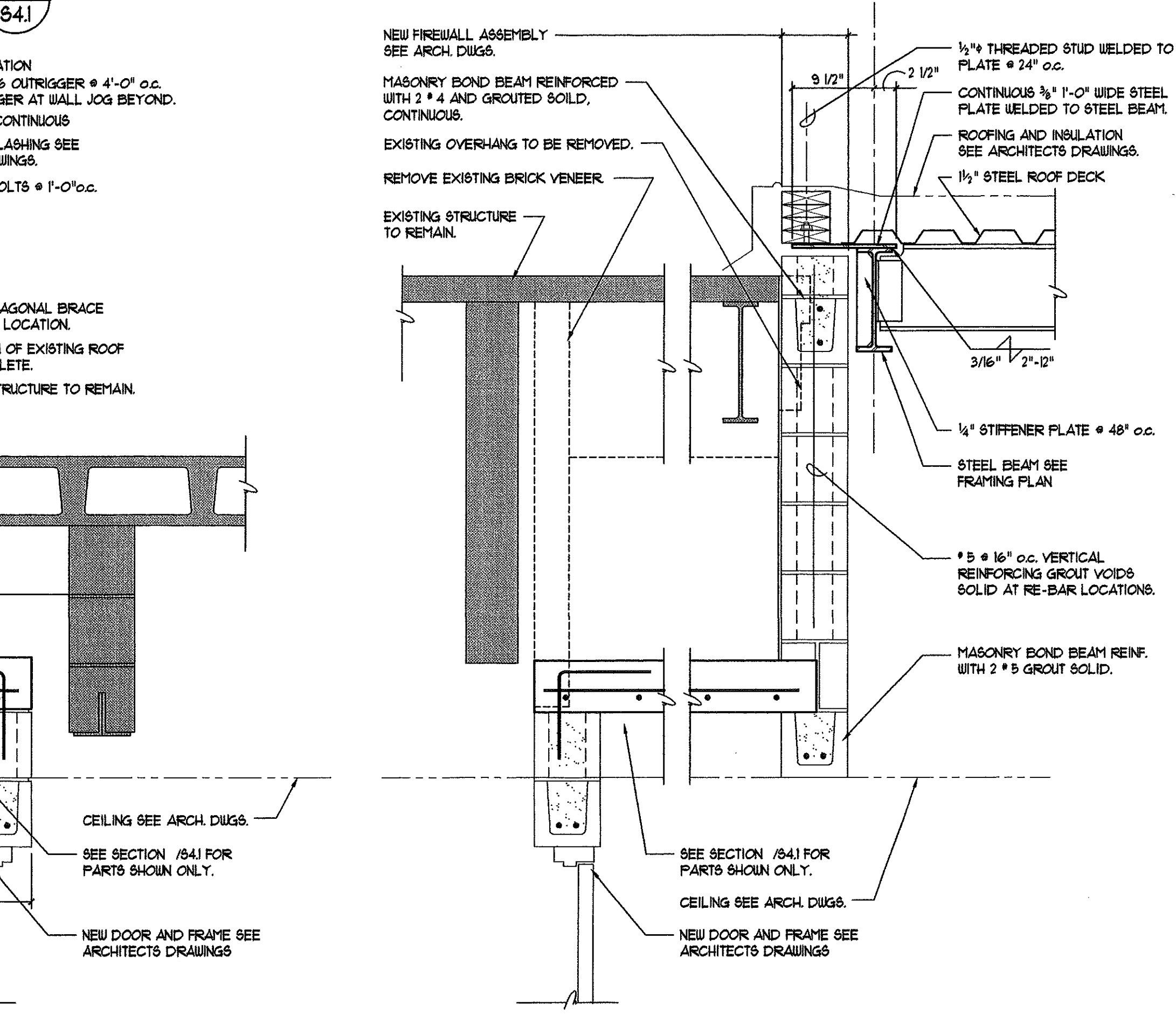
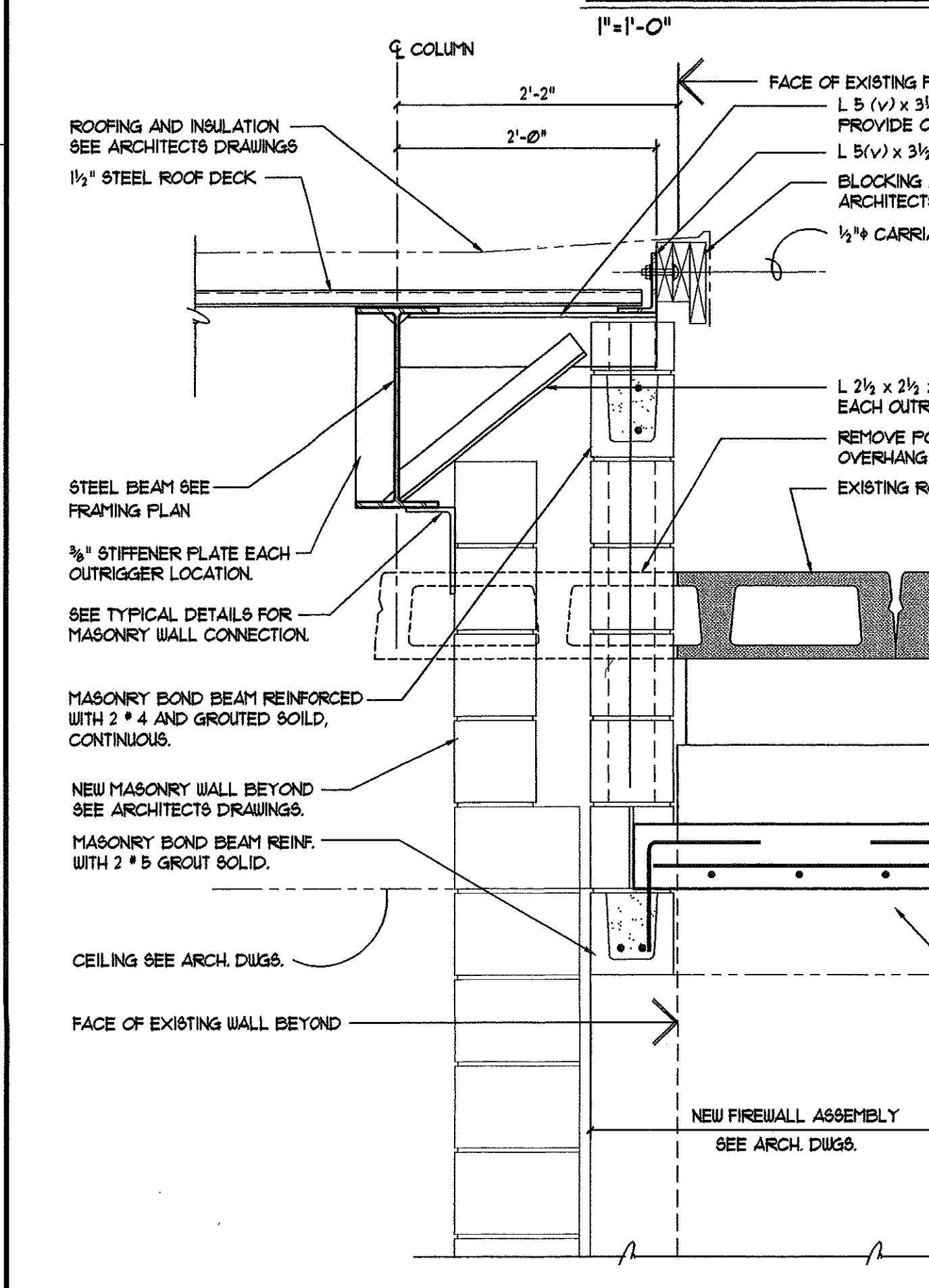
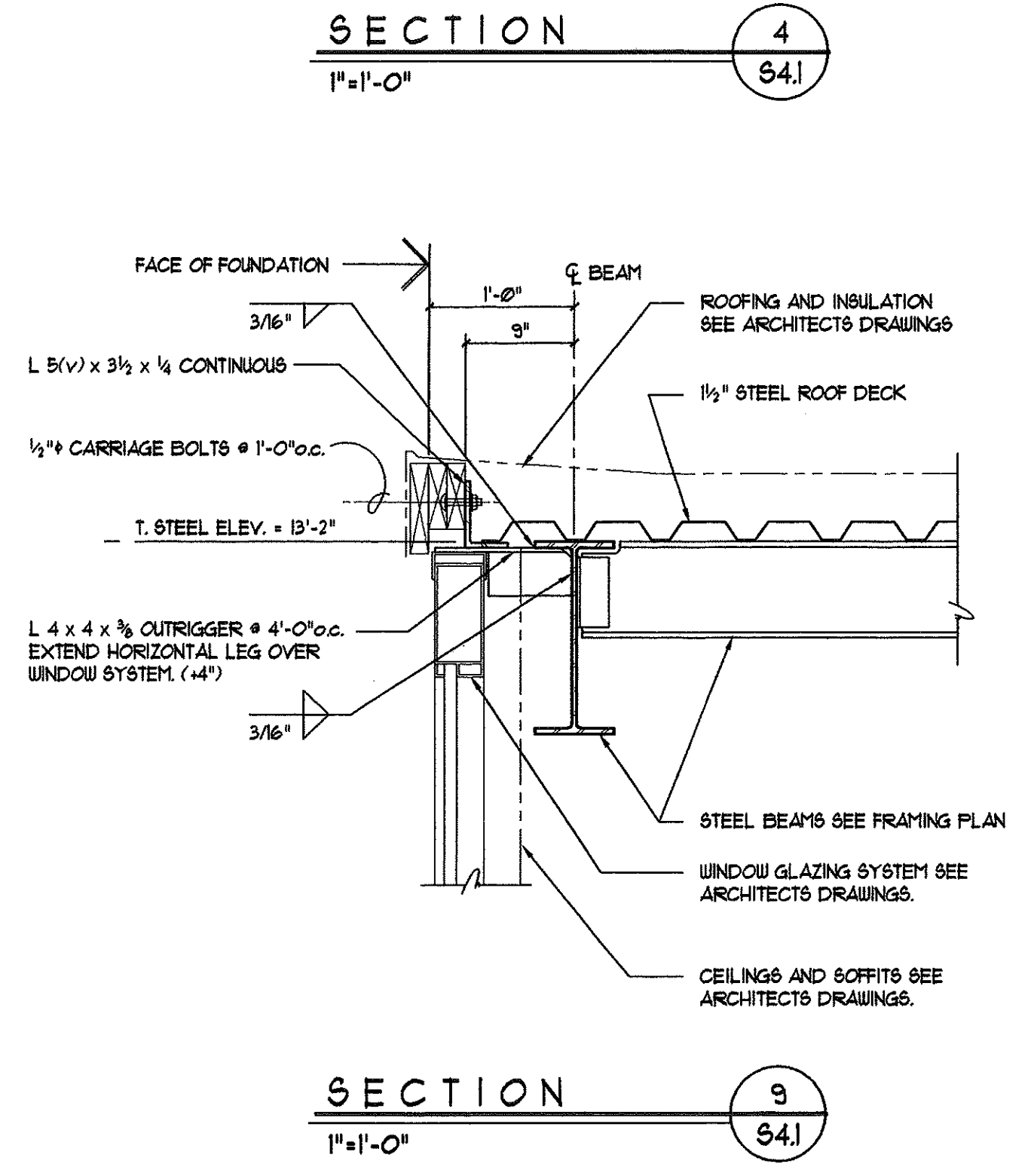
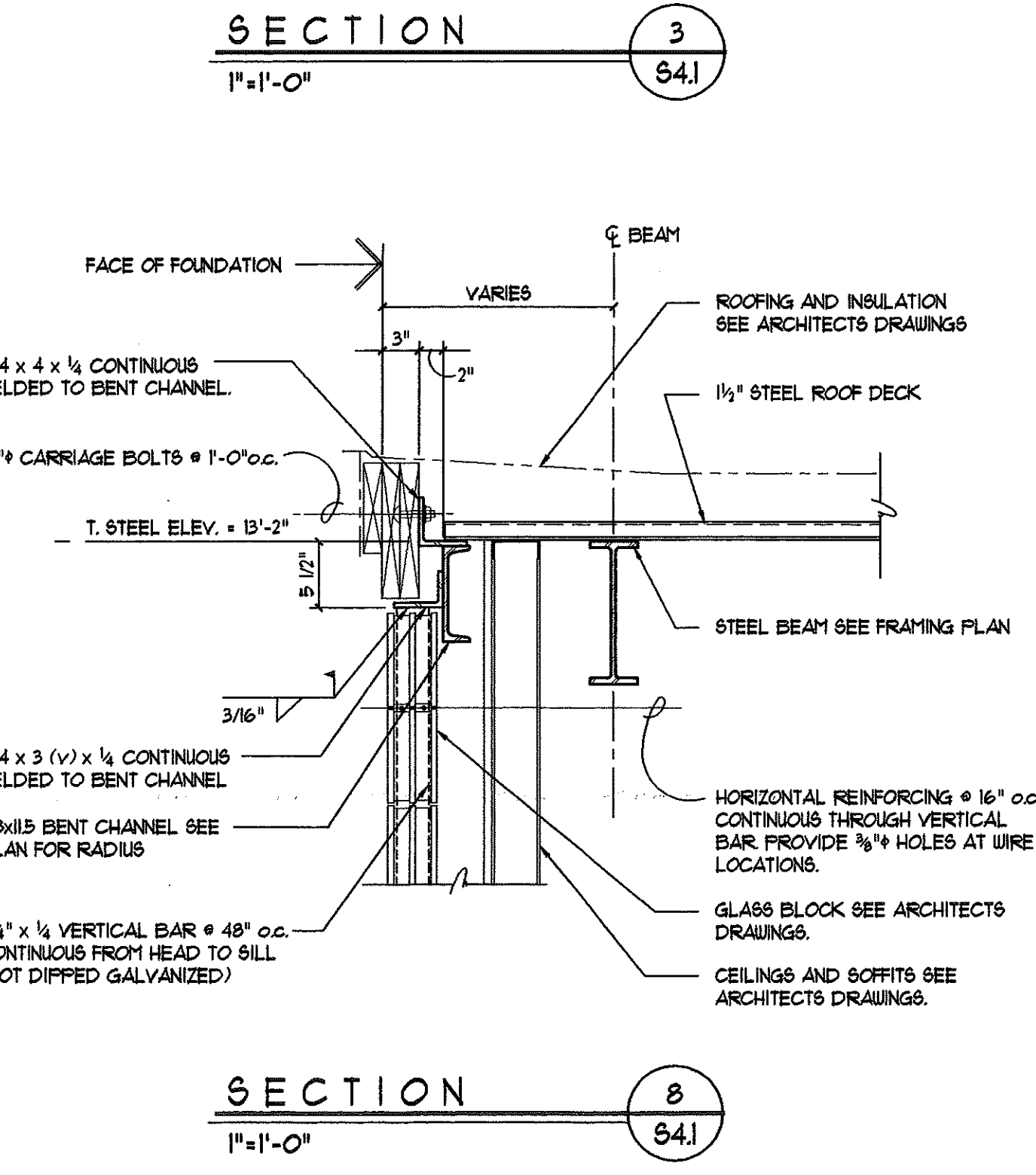
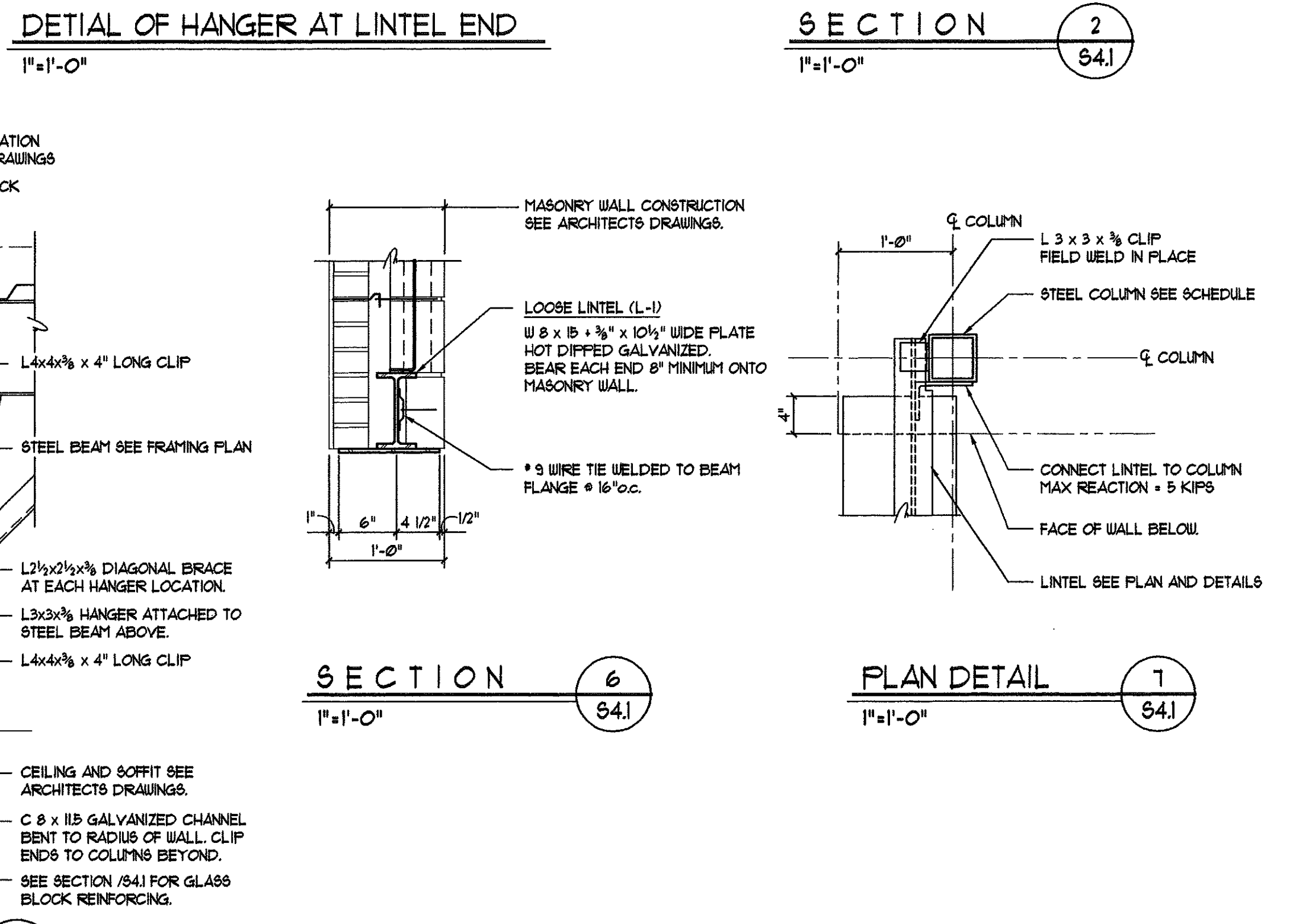
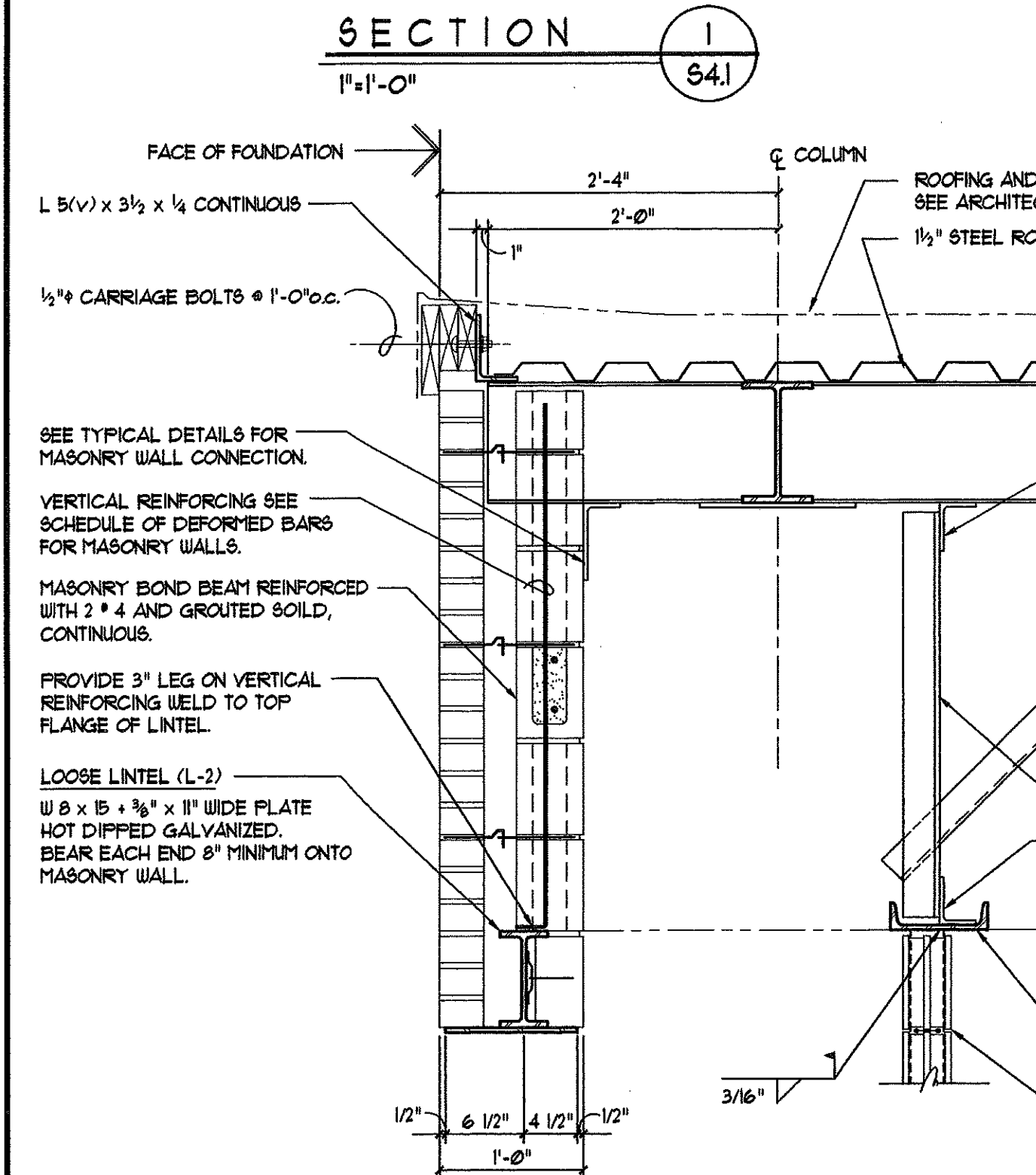
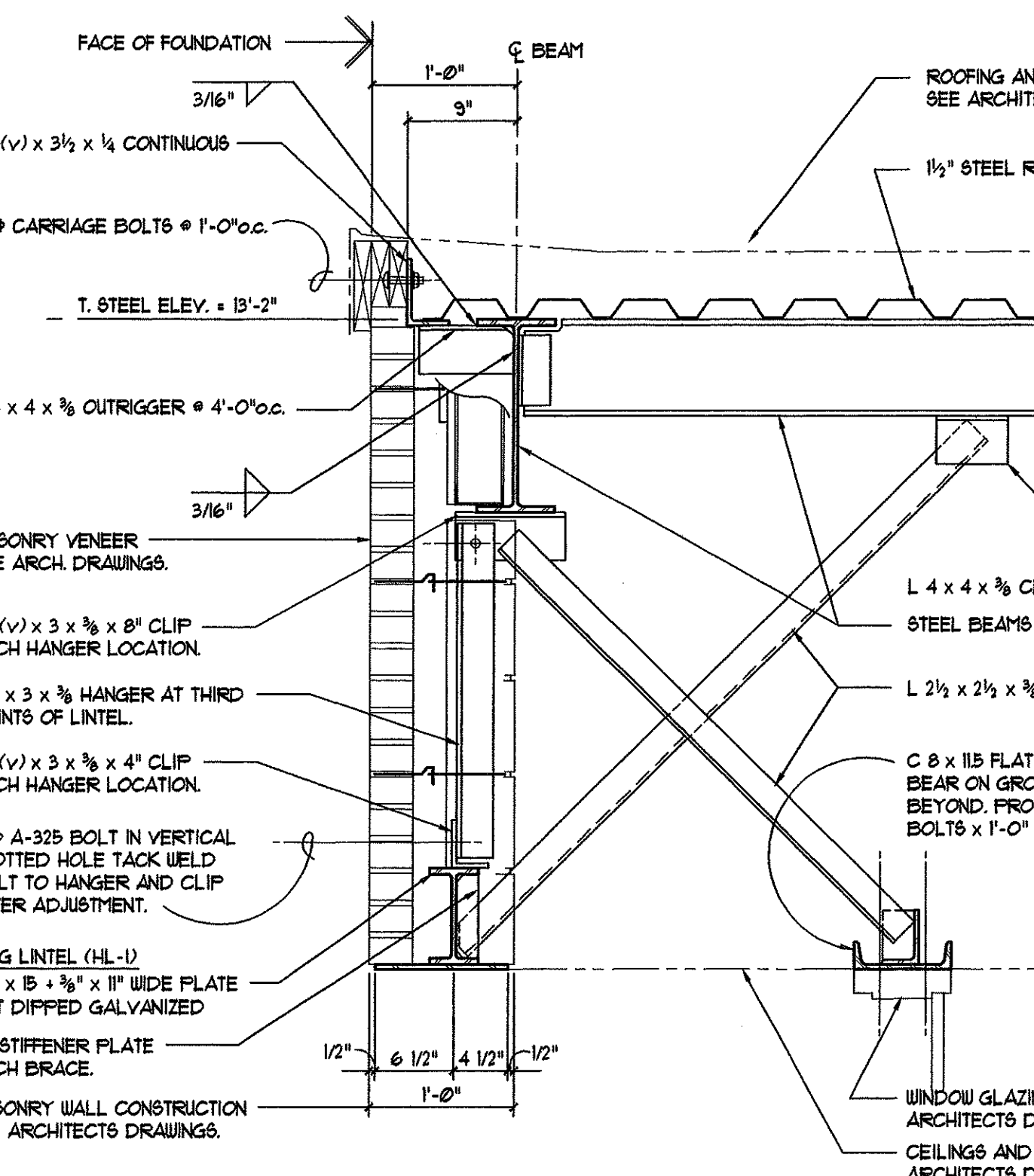
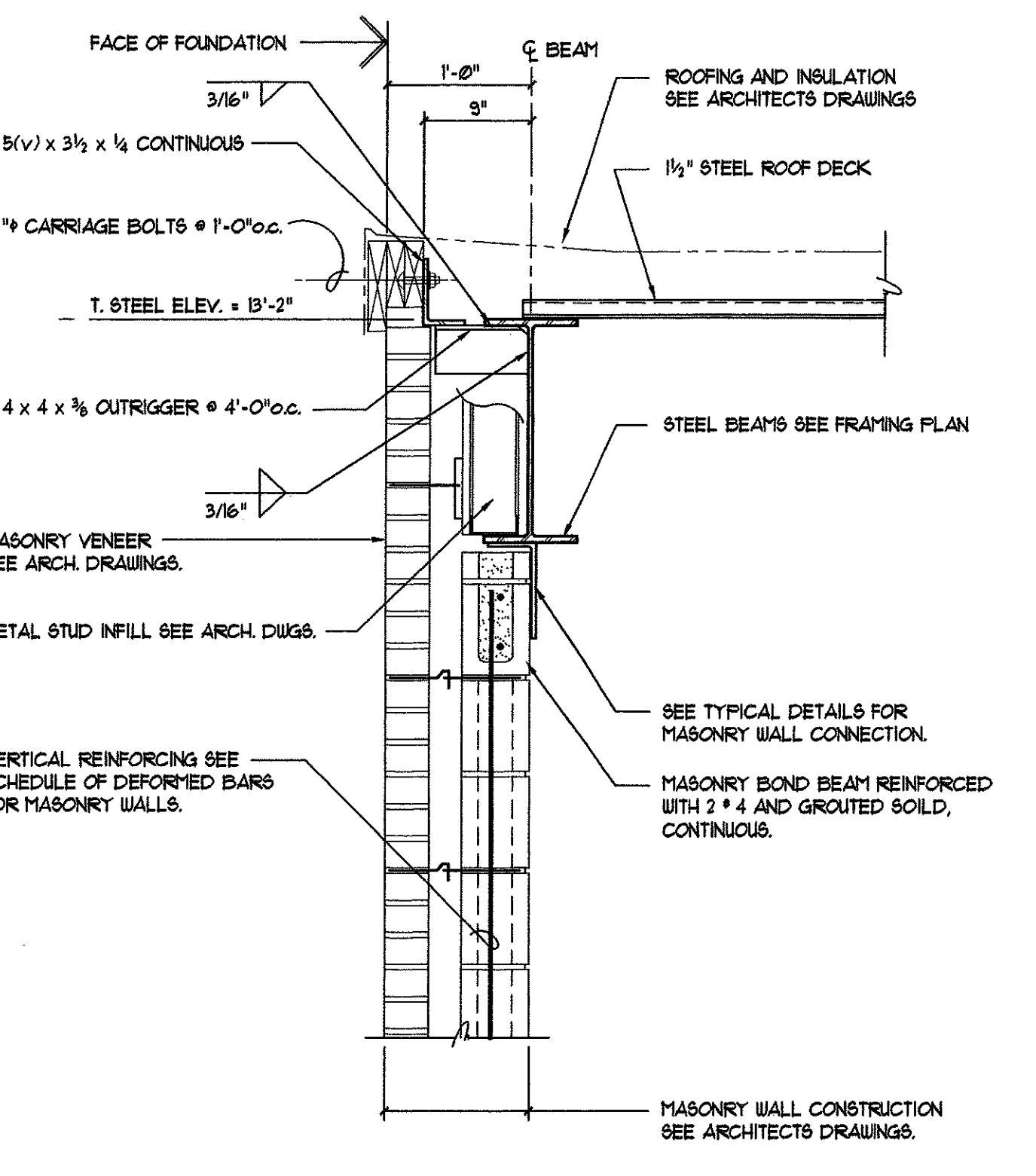
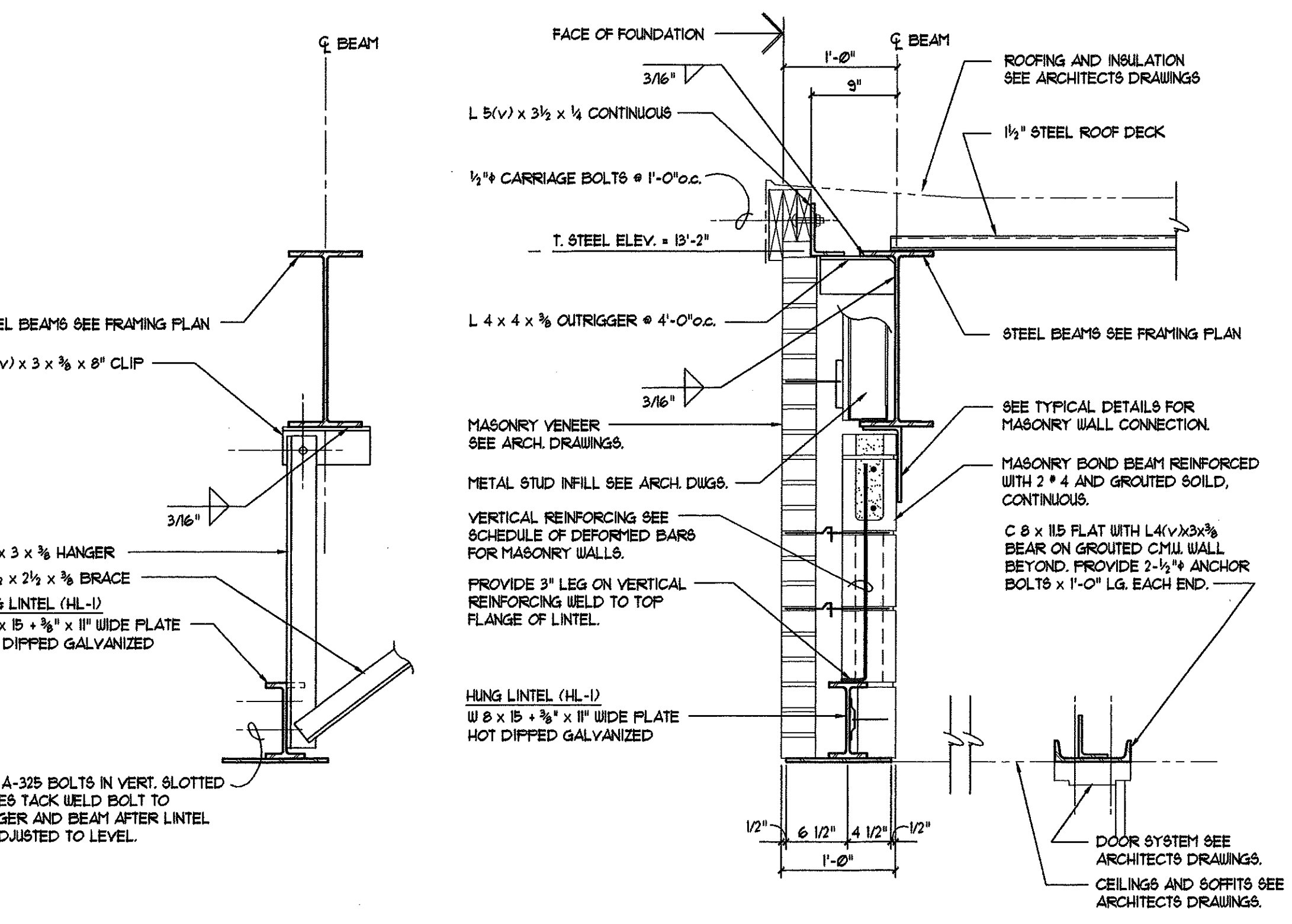
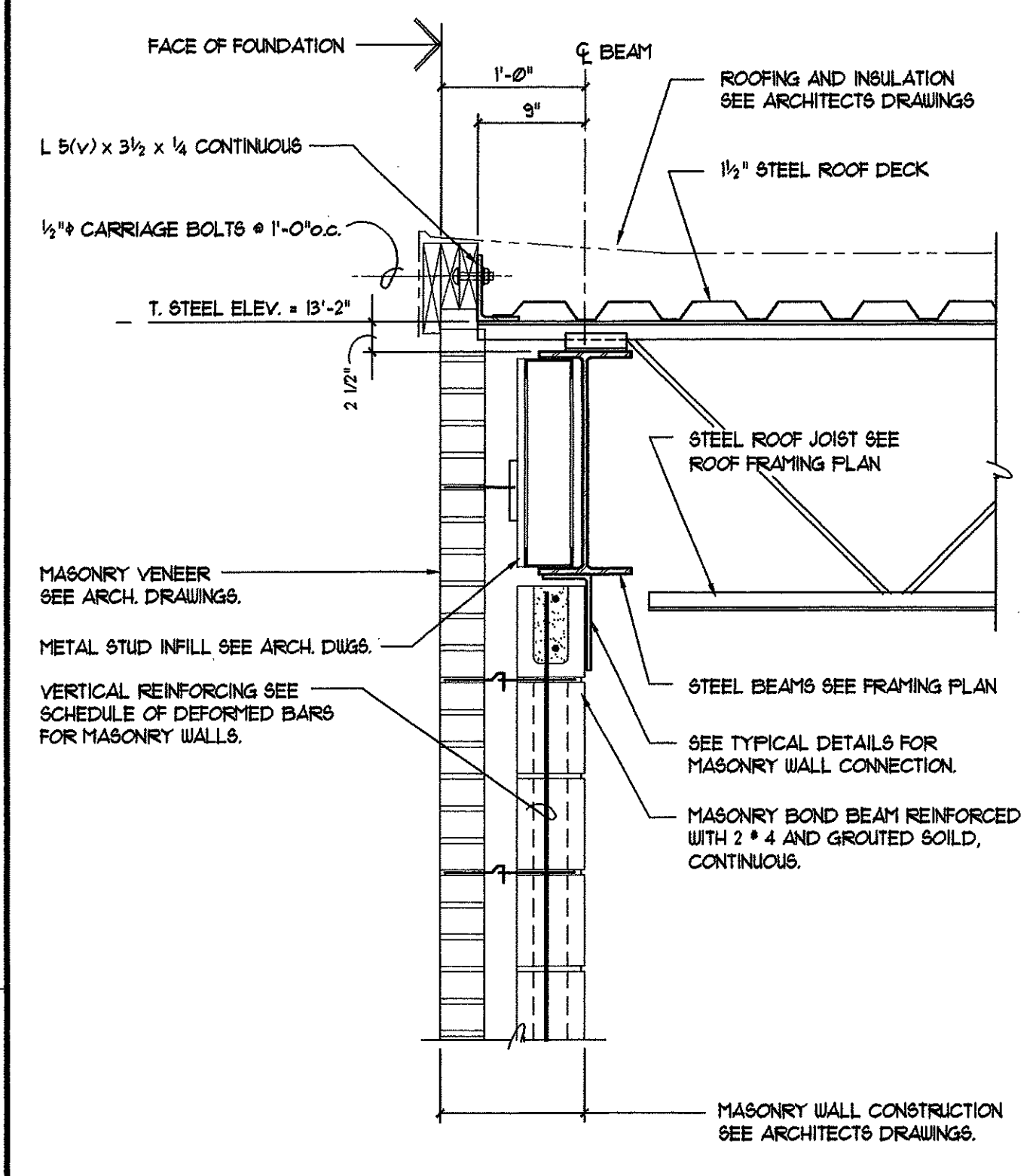
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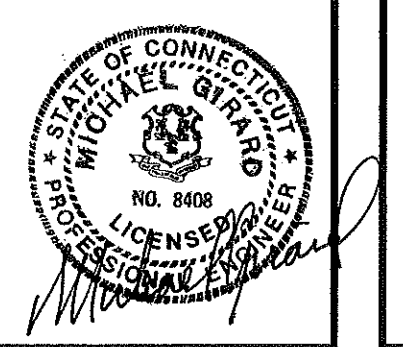
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Hebron, Connecticut
Additions and Renovations
State Project Number 067-030-EA



S4.1

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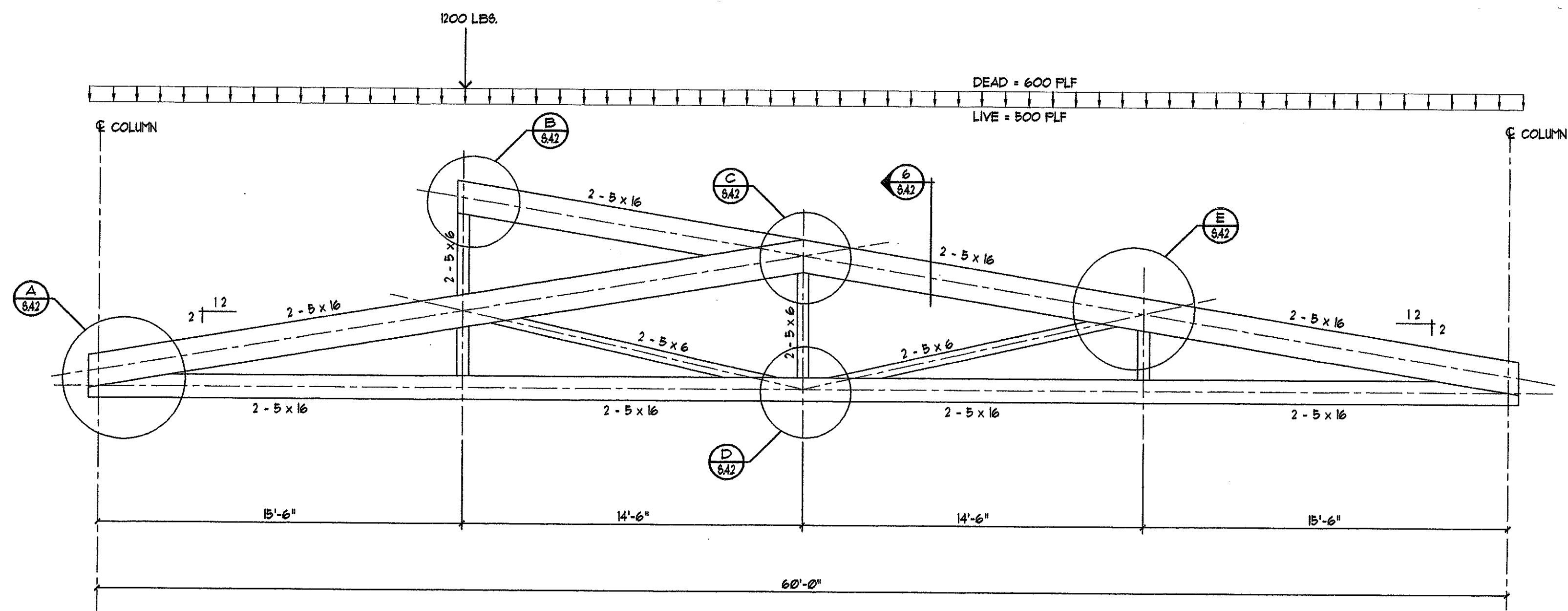
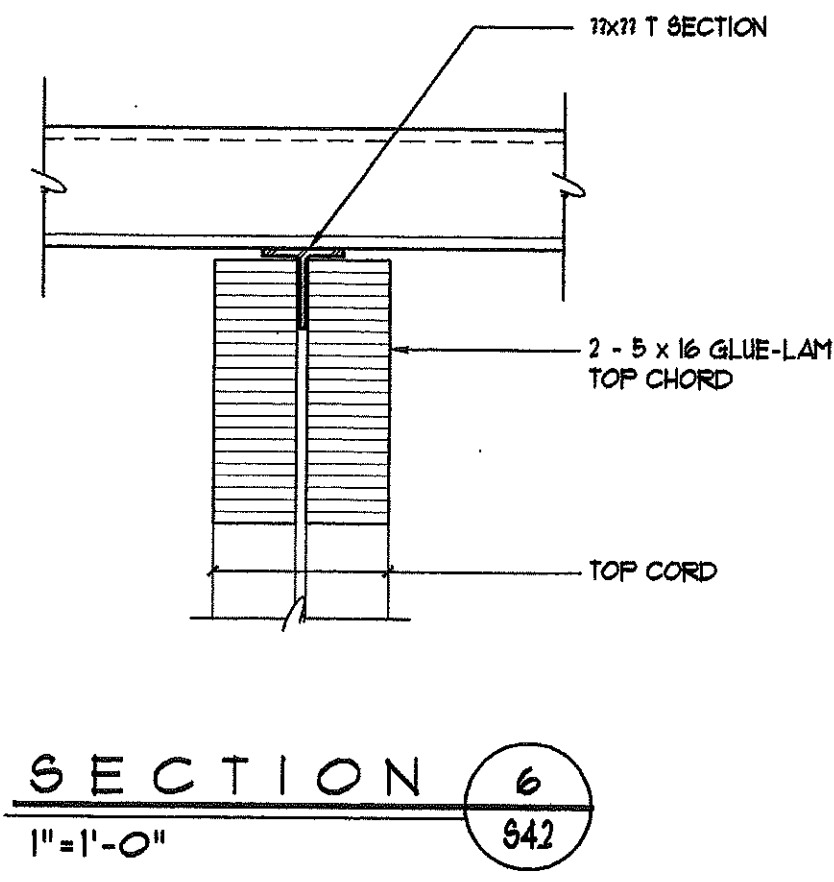
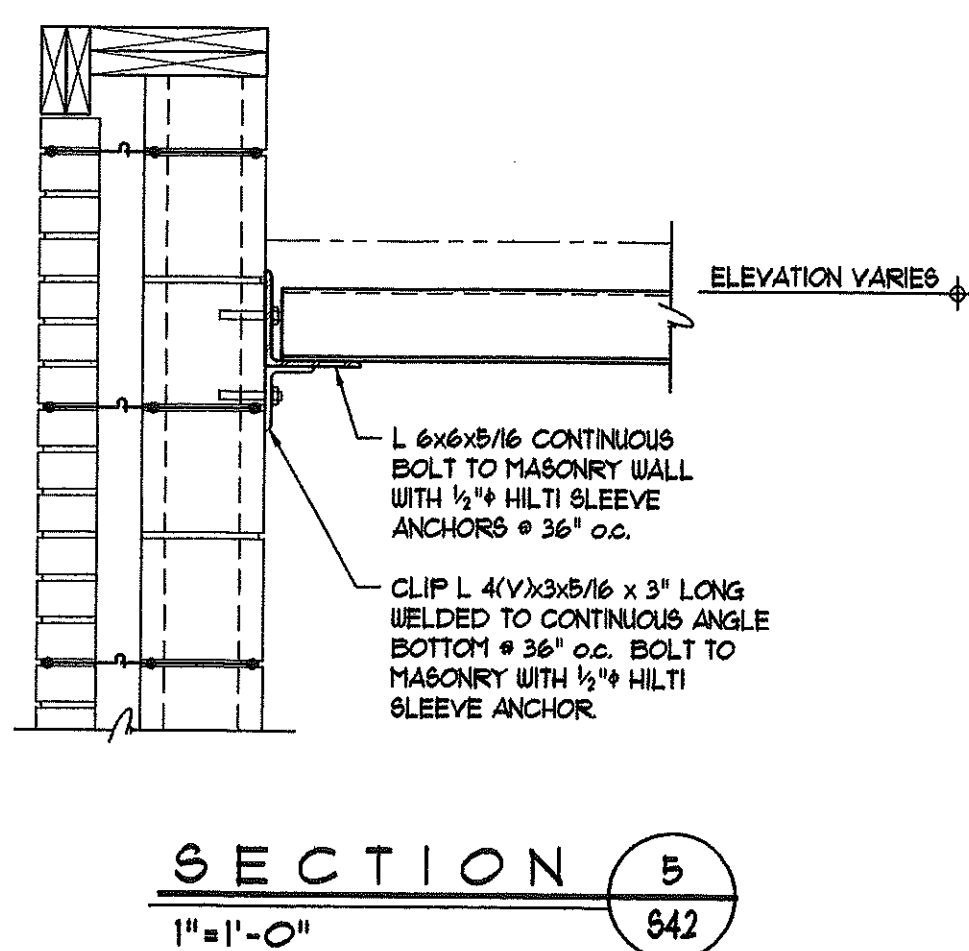
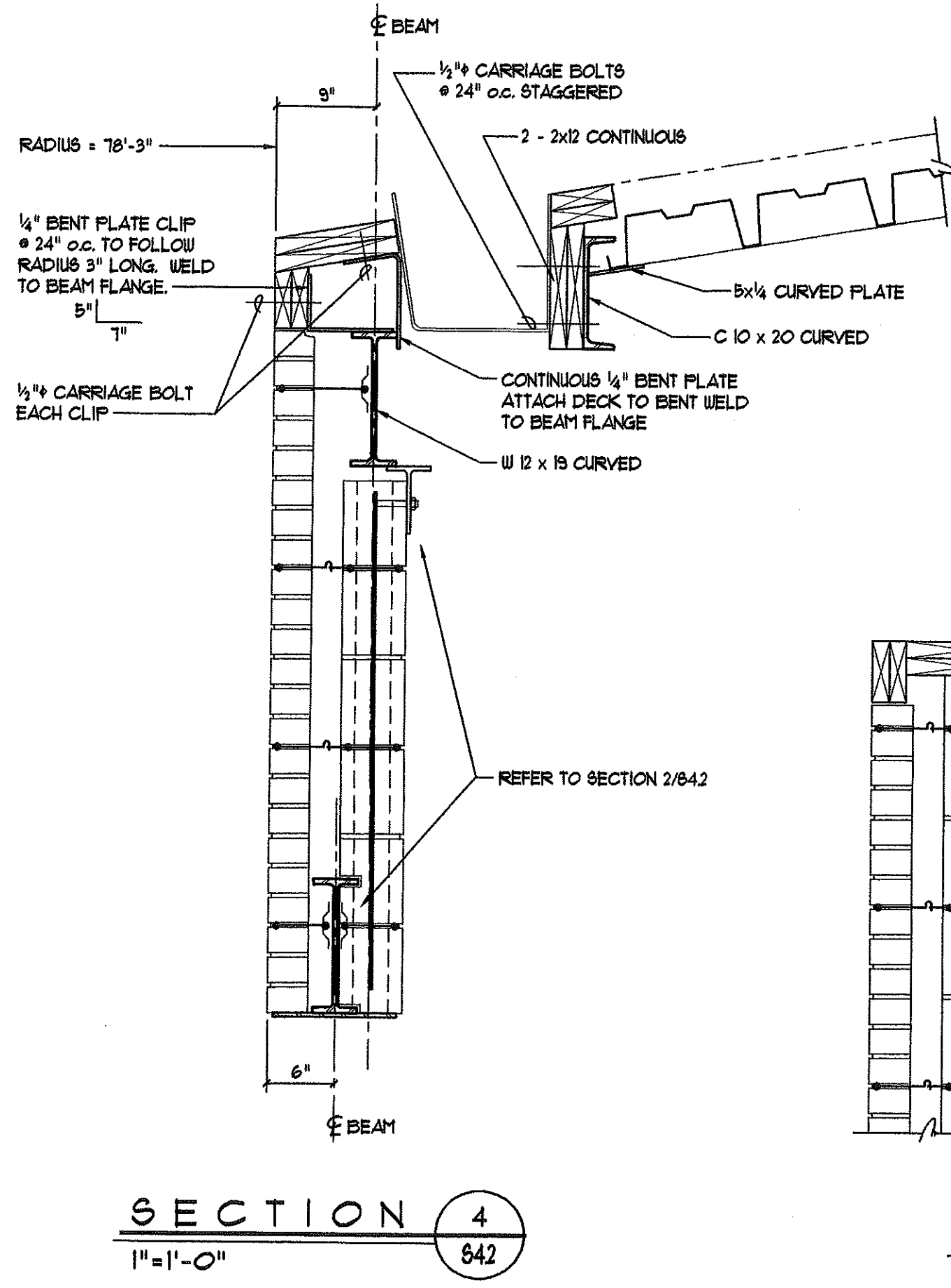
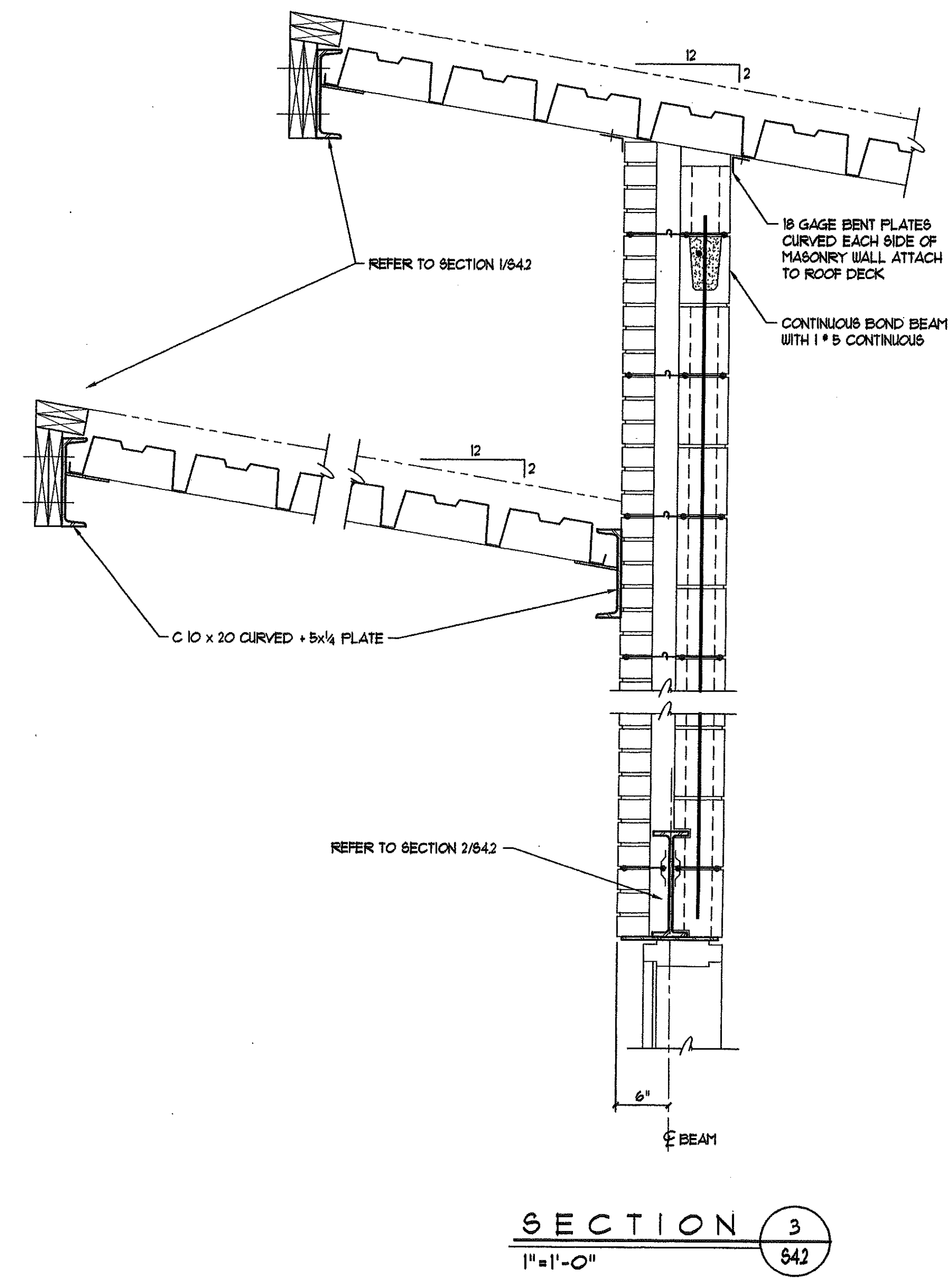
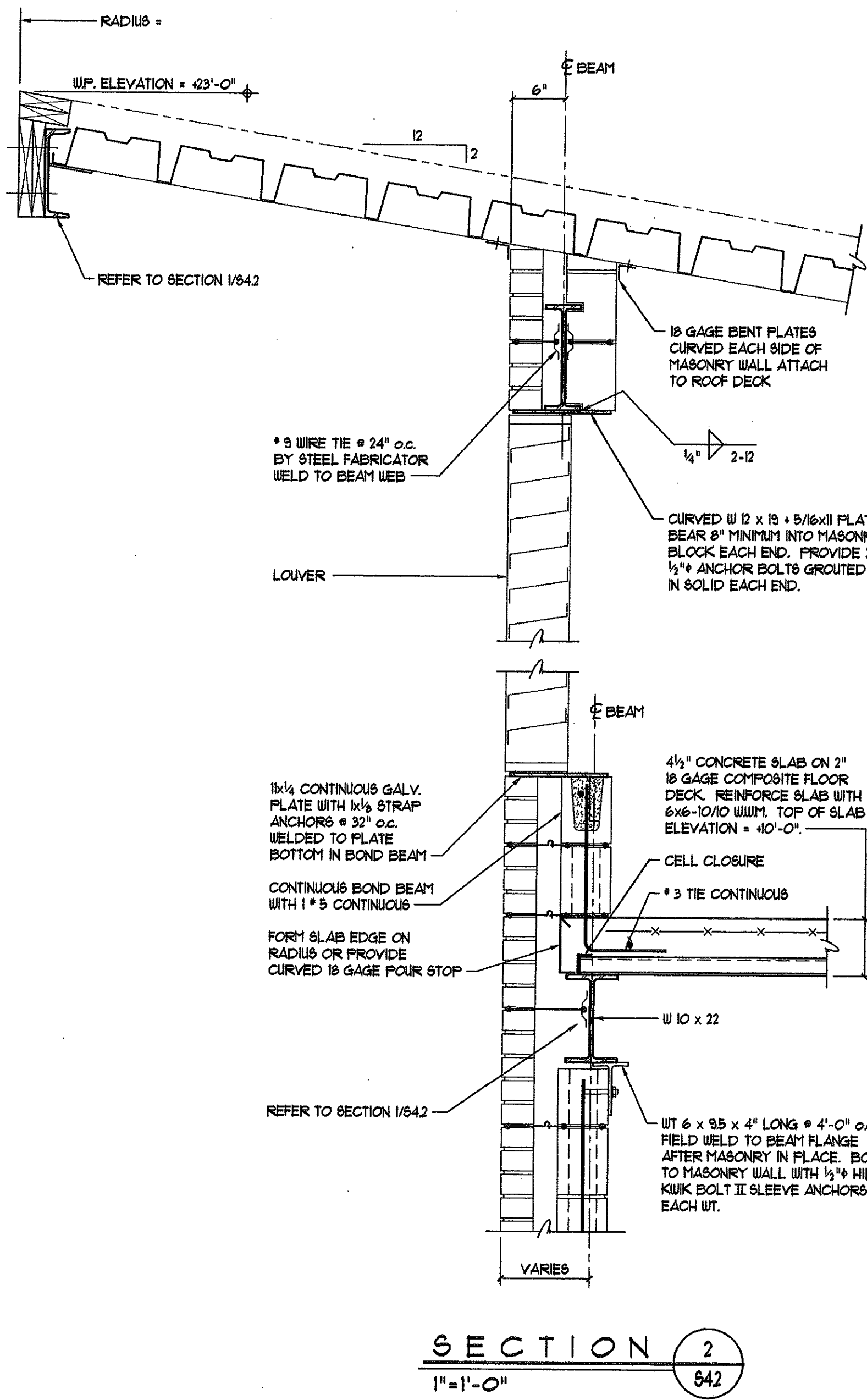
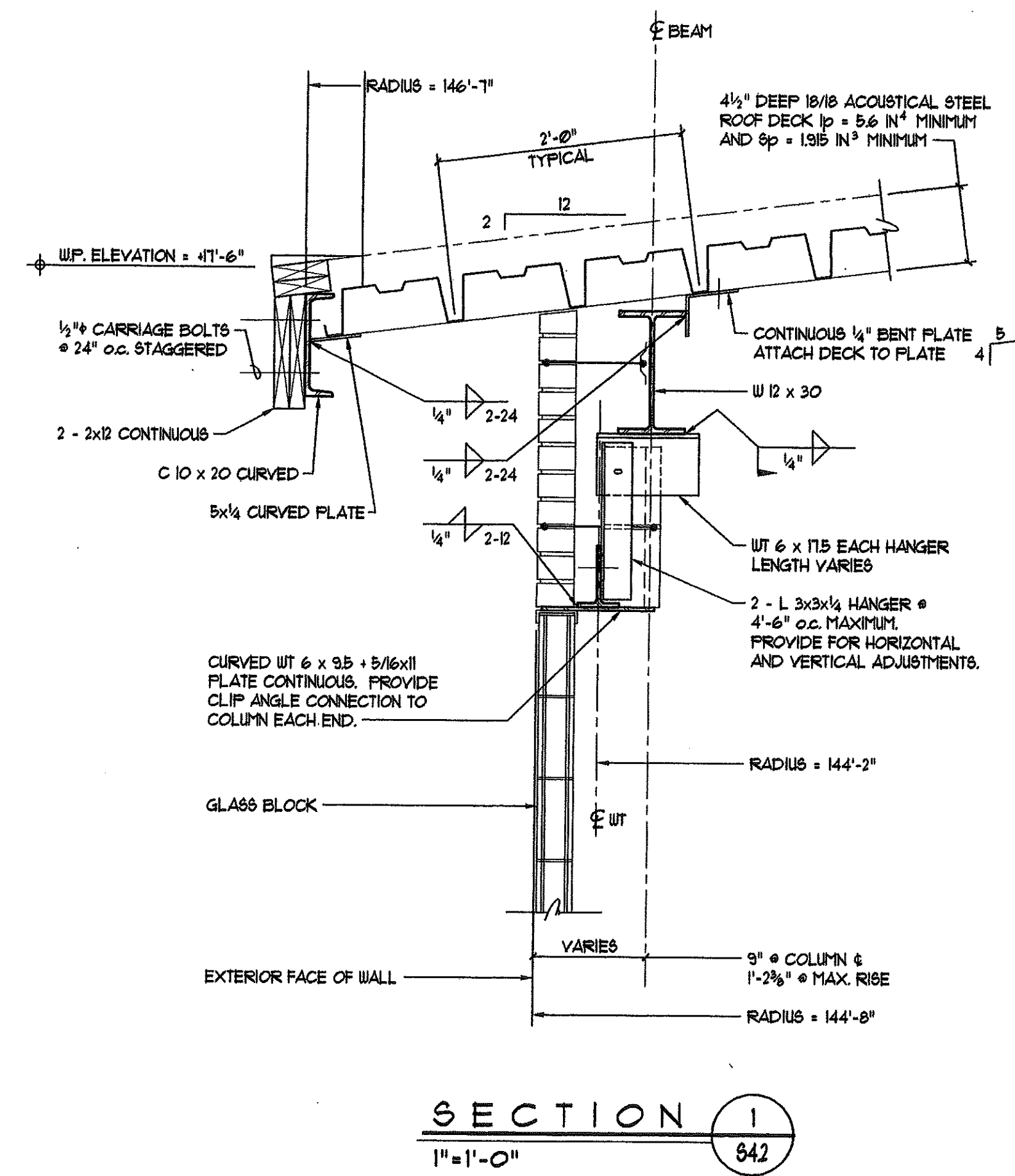
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(860) 528-7101

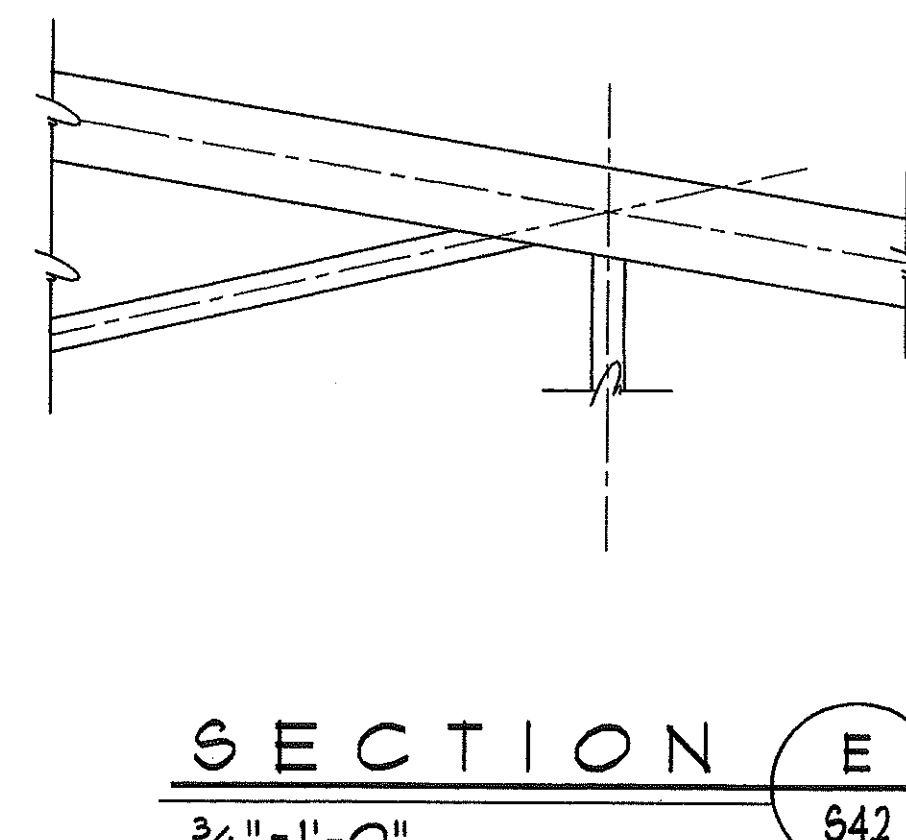
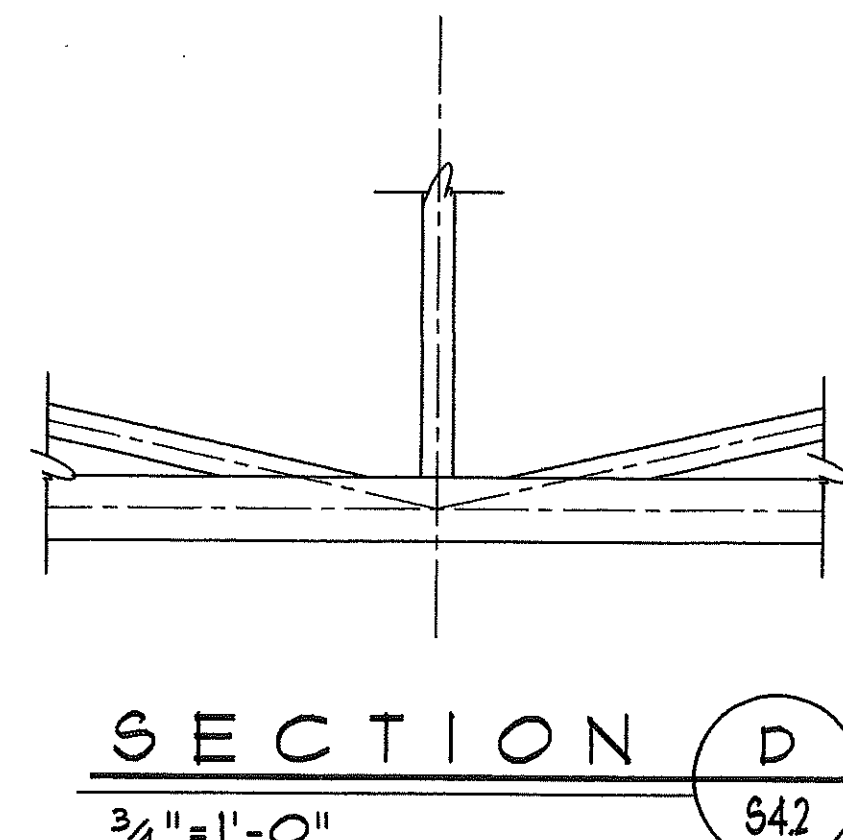
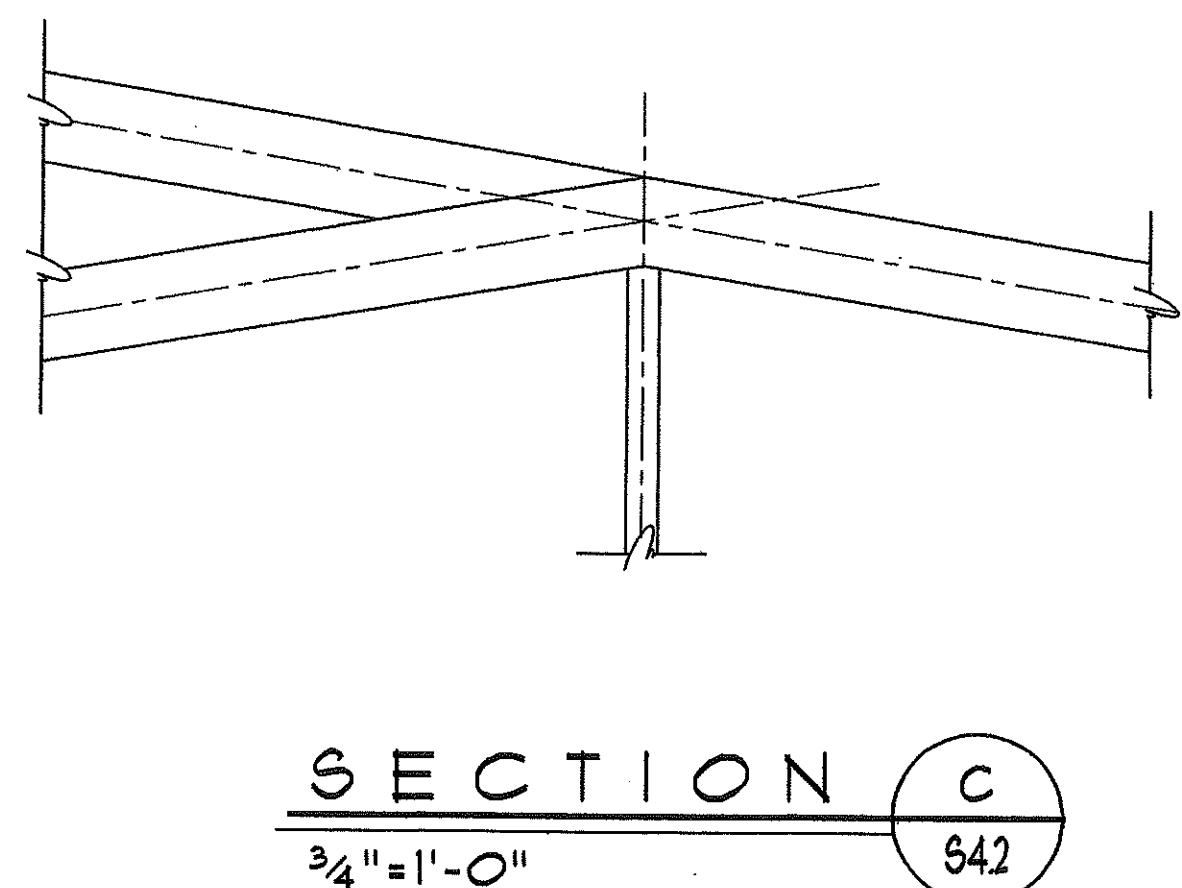
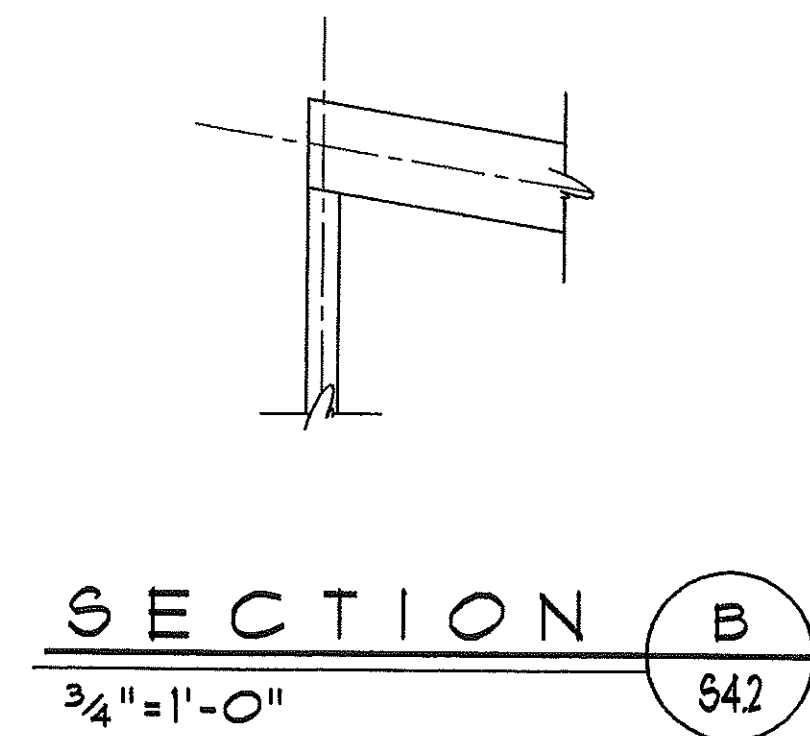
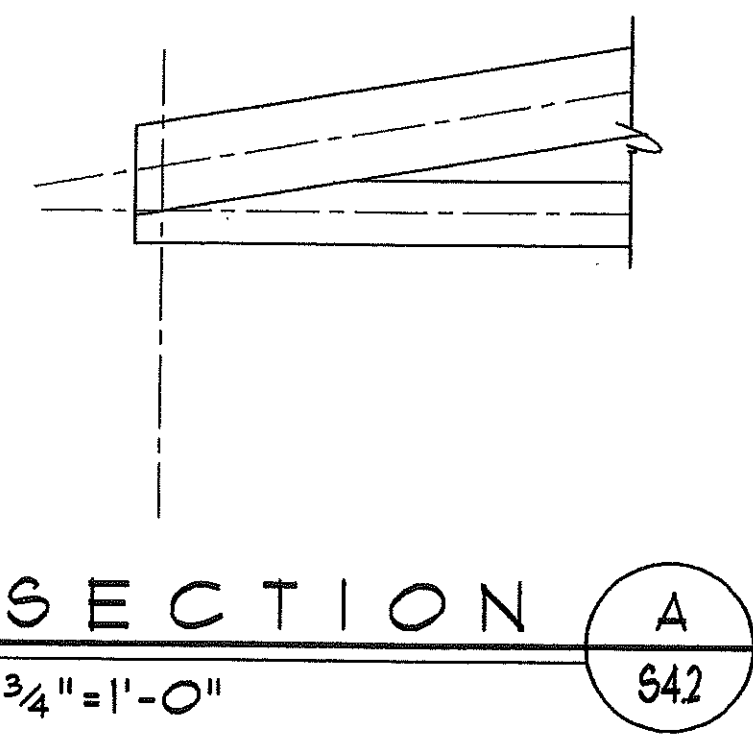
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TIMBER TRUSS DETAIL
1/4" = 1'-0"



No.	Description	Date
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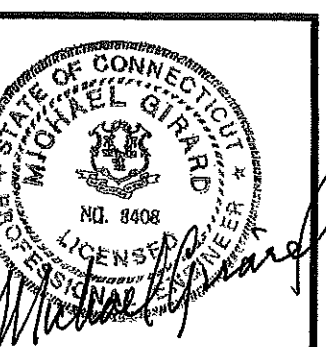
FRAMING SECTIONS

Scale: As Noted Drawn By: KA
Date: 12-1-98 Checked By: MG

Gleed Hill Elementary School
Hebron, Connecticut

Additions and Renovations

State Project Number
057-030-EA



S4.2

COLUMN SCHEDULE

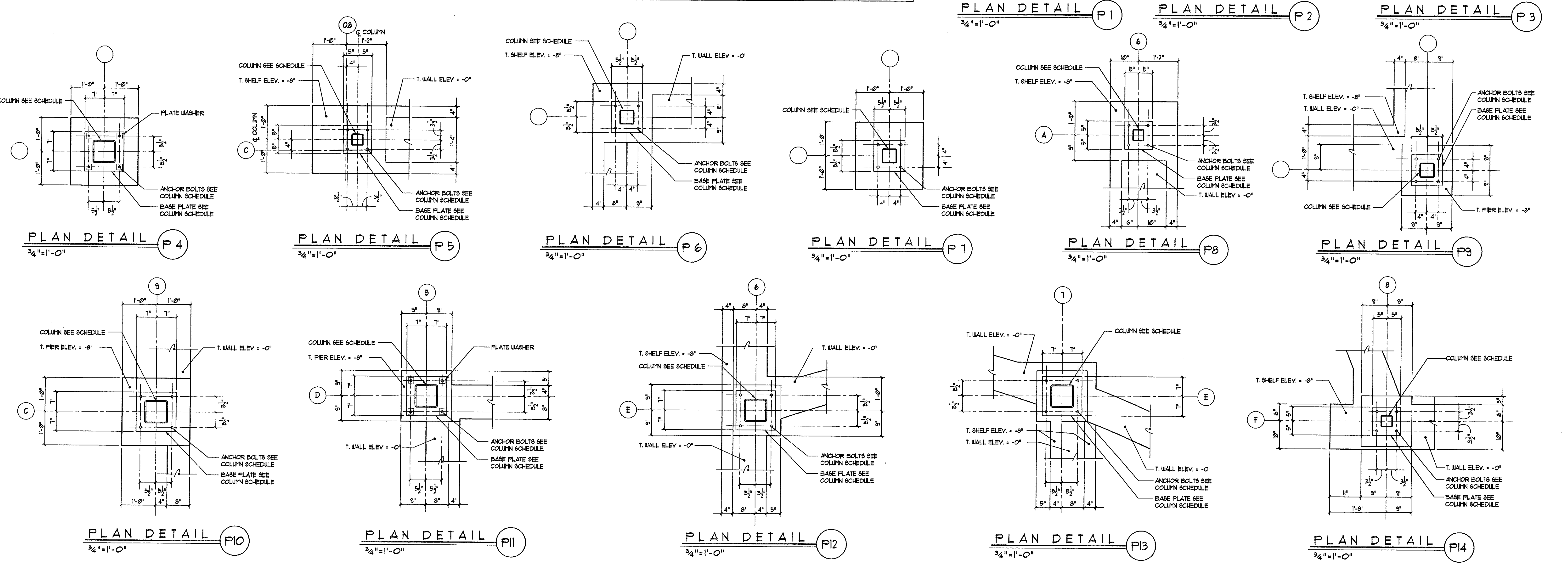
COLUMN NUMBER	(A-2)	(A-3)	(A-6)	(A-7)	(B-1)	(B-2)	(B-3)	(B-4)	(B-6)	(B-7)	(B-9)	(C-08)	(C-1)	(C-2)	(C-3)	(C-4)	(C-6)	(C-7)	(C-9)	(D-08)	(D-1)	(D-2)	(D-3)	(D-5)	(E-6)	(E-7)		
COLUMN HEIGHT																												
TOP OF STEEL ROOF DECK ELEVATION = 43'-3 1/2"																												
TOP OF CONCRETE SLAB ELEVATION = 0'-0" REFERENCE 634.00'																												
BASE PLATE	10 x 3/4 x 10	10 x 3/4 x 10	10 x 3/4 x 10	10 x 3/4 x 10	11 x 3/4 x 11	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	10 x 3/4 x 10	11 x 3/4 x 11	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	10 x 3/4 x 10	11 x 3/4 x 11	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14		
PLAN DETAIL	P 8	P 8 OP. HAND	P 8	P 8 OP. HAND	P 6	P 3 OP. HAND	P 3	P 2	P 3 OP. HAND	P 3	P 1	P 5	P 9	P 4	P 4	P 4	P 4	P 4	P 10	P 5 OP. HAND	P 9 OP. HAND	P 4	P 4	P 11	P 12	P 13		

COLUMN SCHEDULE

COLUMN NUMBER	(F-8)	(F-9)	(G-1)	(G-08)	(G-3)	(G-5)	(AA-10)	(AA-11)	(AA-12)	(AA-13)	(BB-1)	(BB-2)	
COLUMN HEIGHT													
TOP OF STEEL ROOF DECK ELEVATION = 43'-3 1/2"													
TOP OF CONCRETE SLAB ELEVATION = 0'-0" REFERENCE 634.00'													
BASE PLATE	10 x 3/4 x 10	10 x 3/4 x 10	11 x 3/4 x 11	11 x 3/4 x 11	11 x 3/4 x 11	11 x 3/4 x 11	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	14 x 3/4 x 14	
PLAN DETAIL	P 14	P 14	P 6	P 7	P 7	P 6							

COLUMN SCHEDULE NOTES

- STRUCTURAL TUBING TO BE A.S.T.M. A-500, GRADE B STEEL, F_y 46 ksi.
- COLUMN BASES TO BE SET ON LEVELING NITS & WASHERS UNLESS NOTED OTHERWISE.
- COLUMN BASES TO HAVE 4-3/4" x ANCHOR BOLTS 1-6" LONG x 3" HOOK TYPICAL UNLESS NOTED OTHERWISE.
- COLUMN BASES TO BE DRY PACKED SOLID UNDER BASE PLATES WITH 1/2" MINIMUM 5,000 P.S.I. NON-SHRINK GROUT AFTER STEEL HAS BEEN PLUMB AND LEVELED.
- DIMENSIONS GIVEN ARE TO BOTTOM OF BASE PLATE OR TOP OF CAP PLATE.
- ERECTOR TOLERANCES OF ALL COLUMNS AND FRAMING MEMBERS SHALL BE IN ACCORDANCE WITH ALL AISC STANDARDS, AND PROJECT SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY LATERAL SUPPORT TO THE STEEL FRAME DURING CONSTRUCTION. THE TEMPORARY BRACING SHALL NOT BE REMOVED UNTIL ALL COLUMN BRACES, FRAME MOMENT CONNECTIONS, AND CONCRETE AND STEEL DECK HAVE BEEN COMPLETELY INSTALLED AND ACCEPTED.
- PROVIDE MASONRY TIES # 16 @ 2'-0" ON ALL COLUMNS ADJACENT TO MASONRY. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS.
- ALL BEAM TO COLUMN AND GIRDER TO COLUMN CONNECTIONS SHALL BE THRU PLATE TYPE.
- FOR MOMENT CONNECTED COLUMN BASES PROVIDE 2x2 1/2" SHLW. TOP OF BASE PLATE WITH HOLE OF STANDARD DIAMETER PER ANCHOR BOLT SIZE. SEE TYPICAL DETAIL FOR ADDITIONAL INFORMATION.



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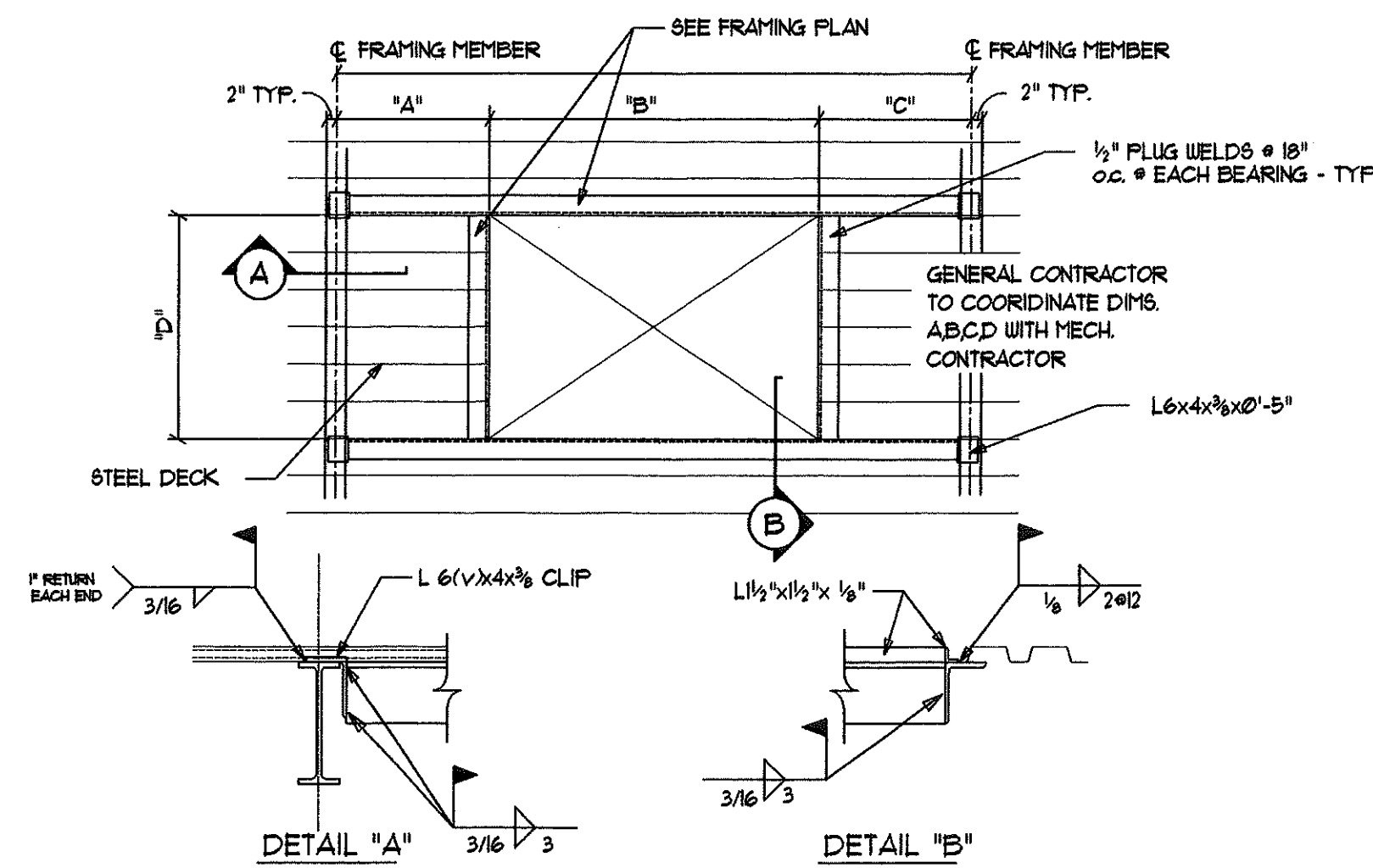
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No.	Description	Date
Revisions		

COLUMN SCHEDULE
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 Date: 12-1-98
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 Checked By: MG

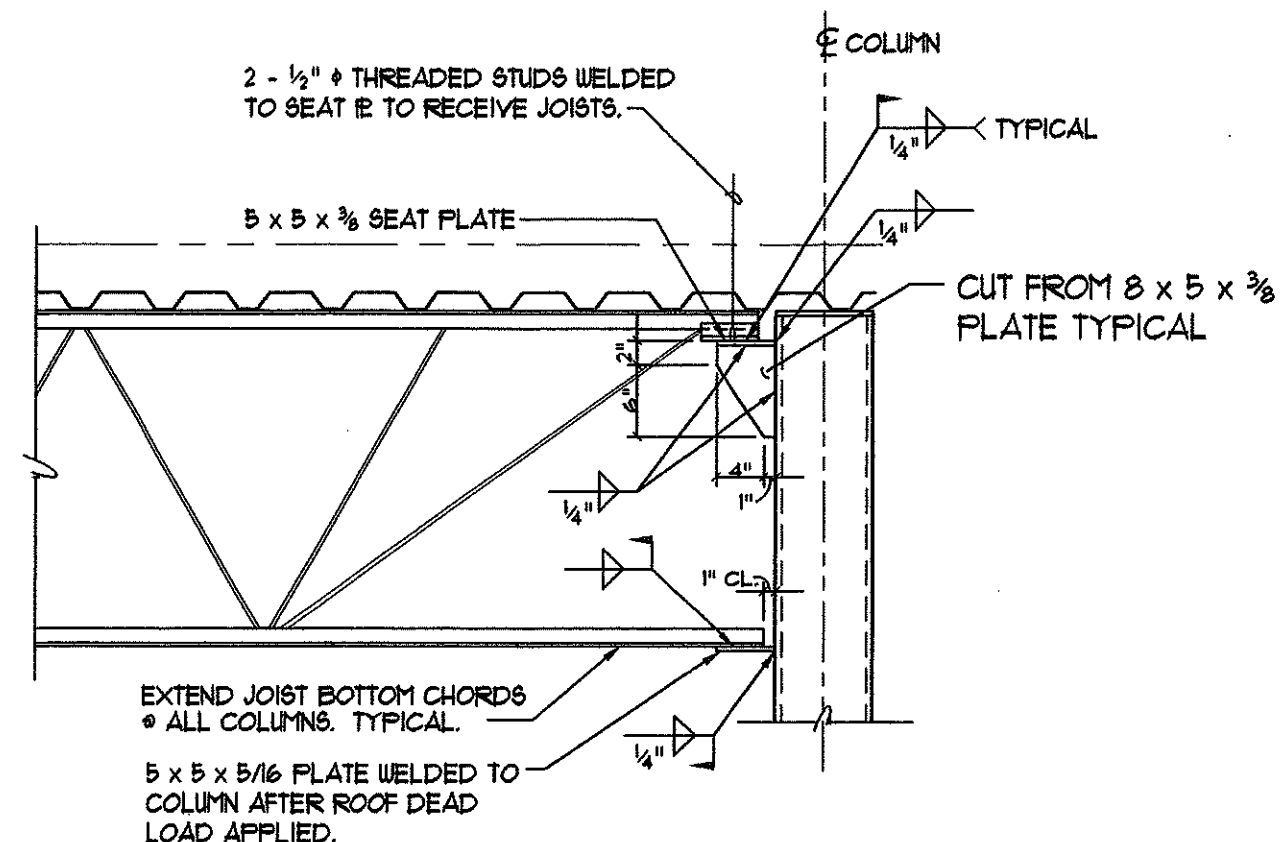
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 Hebron, Connecticut
 Additions and Renovations
 State Project Number 067-030-EA

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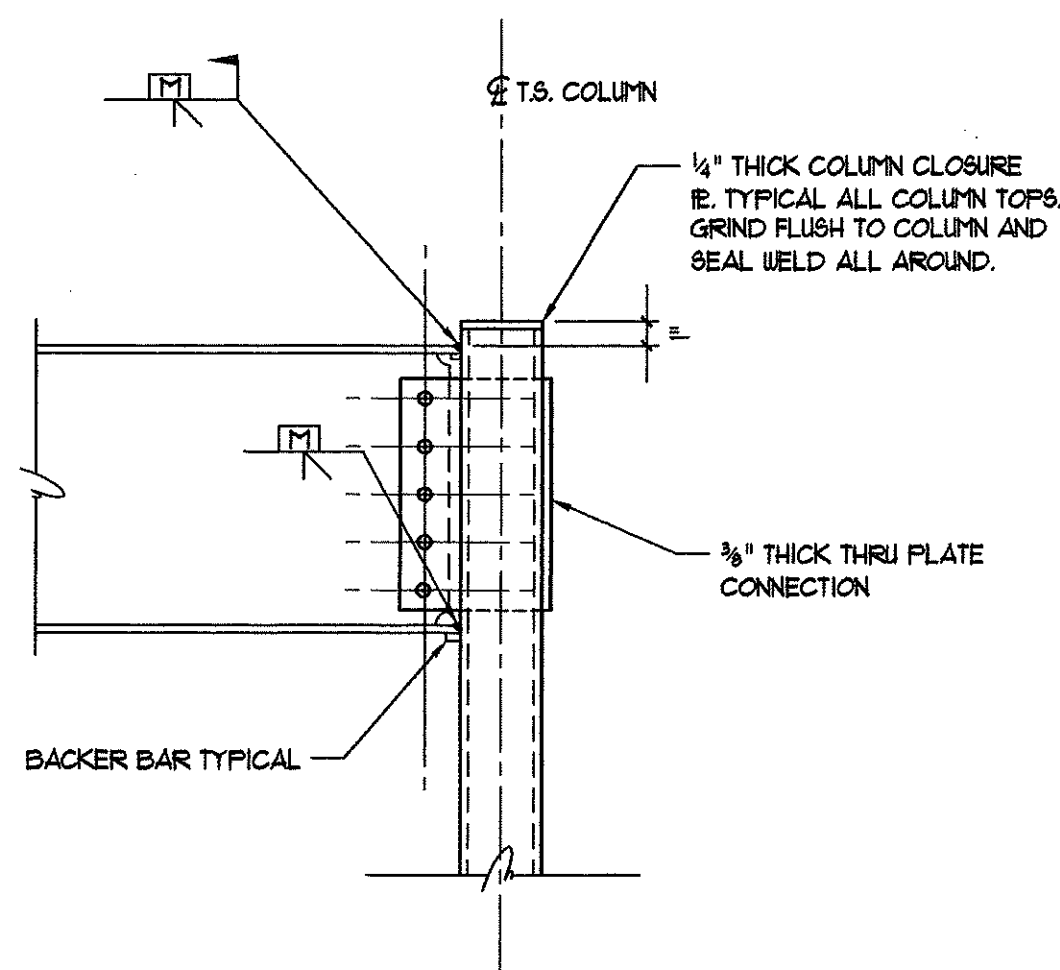
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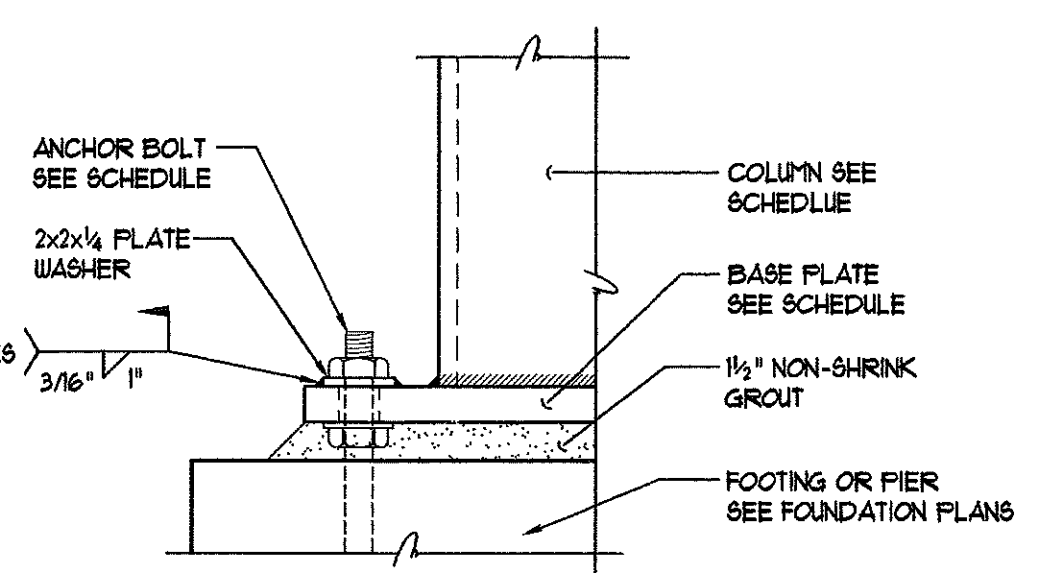
TYPICAL DECK SUPPORT @ ROOF PENETRATIONS
3/4" = 1'-0"



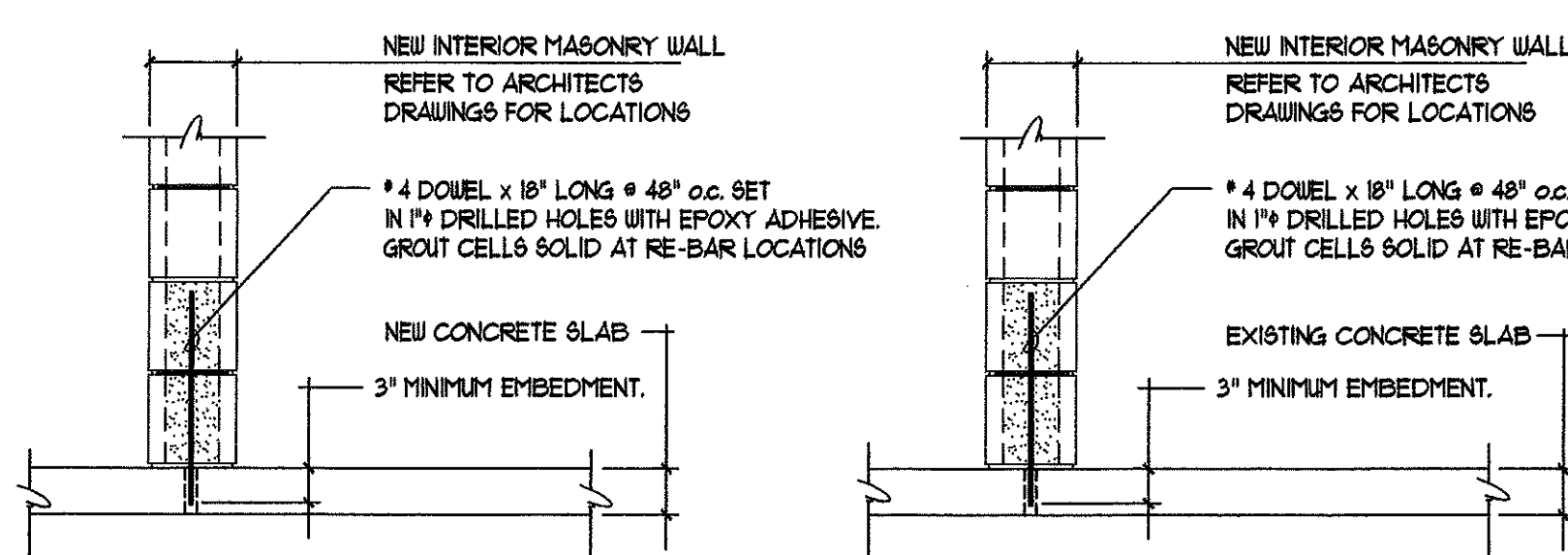
TYPICAL STEEL JOIST CONNECTION TO COLUMN
NOT TO SCALE



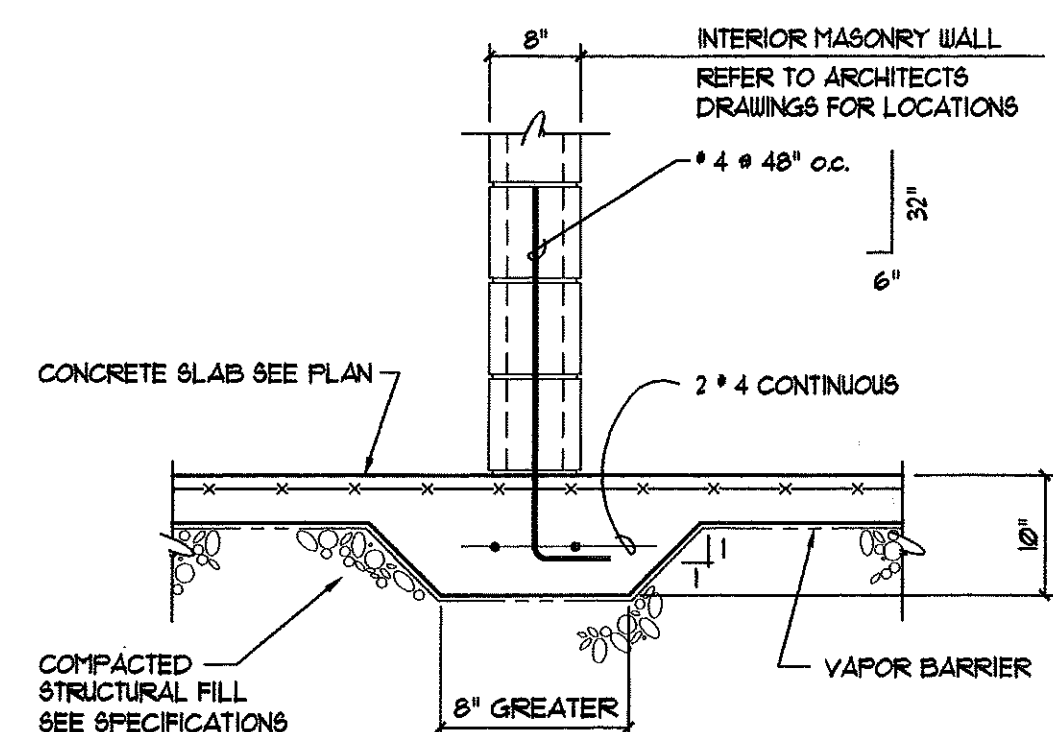
TYPICAL TUBE STEEL COLUMN MOMENT CONNECTION
NOT TO SCALE



TYPICAL CONNECTION AT MOMENT FRAMED COLUMN BASE
NOT TO SCALE



TYPICAL MASONRY WALL - CONNECTION AT BASE

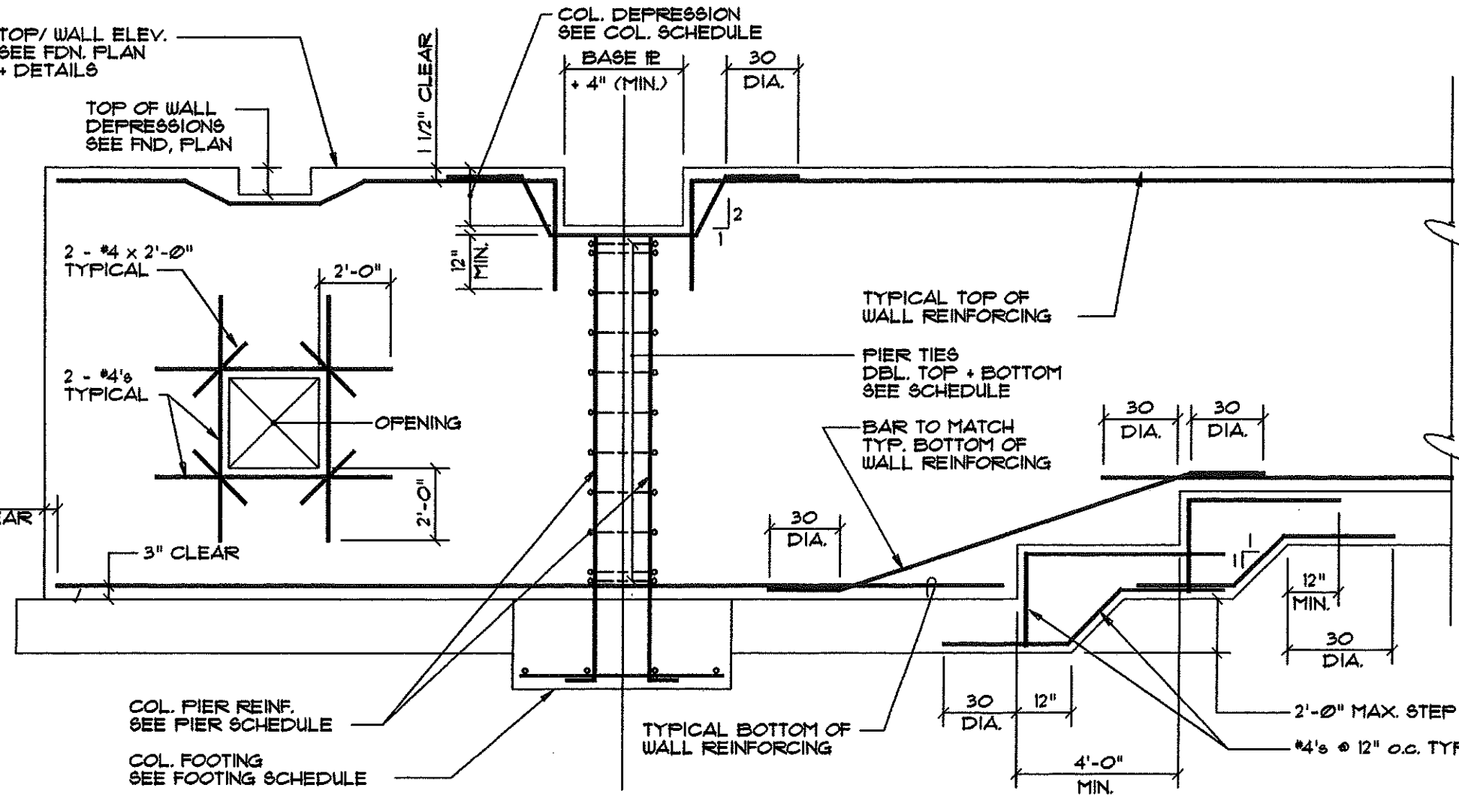


TYPICAL HAUNCH SLAB UNDER MASONRY
UNLESS NOTED OTHERWISE PROVIDE HAUNCHED SLAB AT ALL INTERIOR MASONRY WALLS THAT ARE 8' OR GREATER IN WIDTH, AT SLABS ON GRADE.

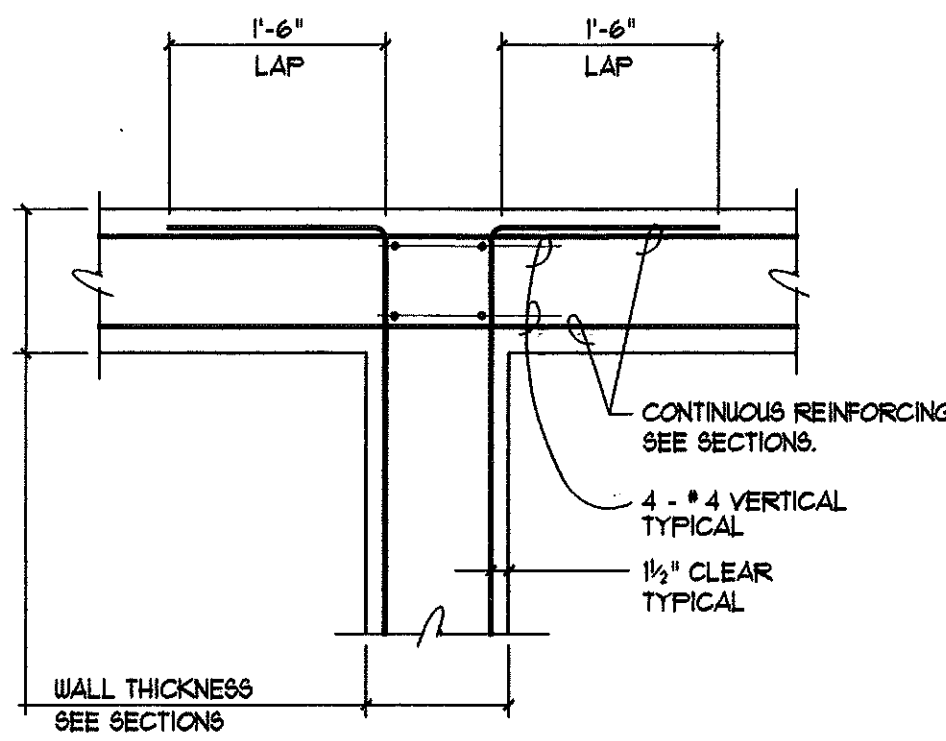
PIER SCHEDULE			
MARK	SIZE	REINFORCING (PROVIDE 13 TIES @ 12" O.C. TYP.)	
F18	18" x 18"	4 #1 VERTICAL	
F20	20" x 20"	4 #1 VERTICAL	
F24	24" x 24"	6 #1 VERTICAL	
F30	18" x 24"	6 #1 VERTICAL	

* NOTE: DOVEL ALL VERTICAL REINFORCEMENT INTO FOOTING. CENTER PIER REINFORCING ON COLUMN & W.O.

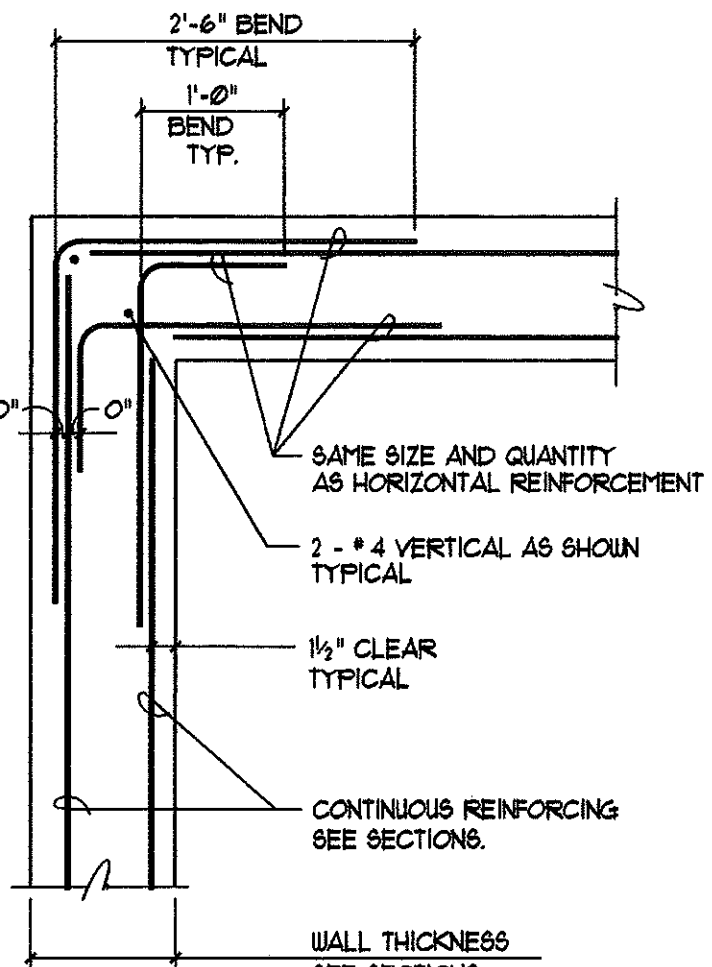
FOOTING SCHEDULE			
MARK	SIZE	REINFORCING (BOTH WAYS BOTTOM)	
F30	3'-0" x 3'-0" x 1'-0"	4 #4	
F40	4'-0" x 4'-0" x 1'-0"	4 #5	
F50	4'-6" x 4'-6" x 1'-2"	5 #5	
F60	5'-0" x 5'-0" x 1'-2"	6 #5	
F60	6'-0" x 6'-0" x 1'-6"	6 #5	
F10	7'-0" x 7'-0" x 1'-6"	7 #5	



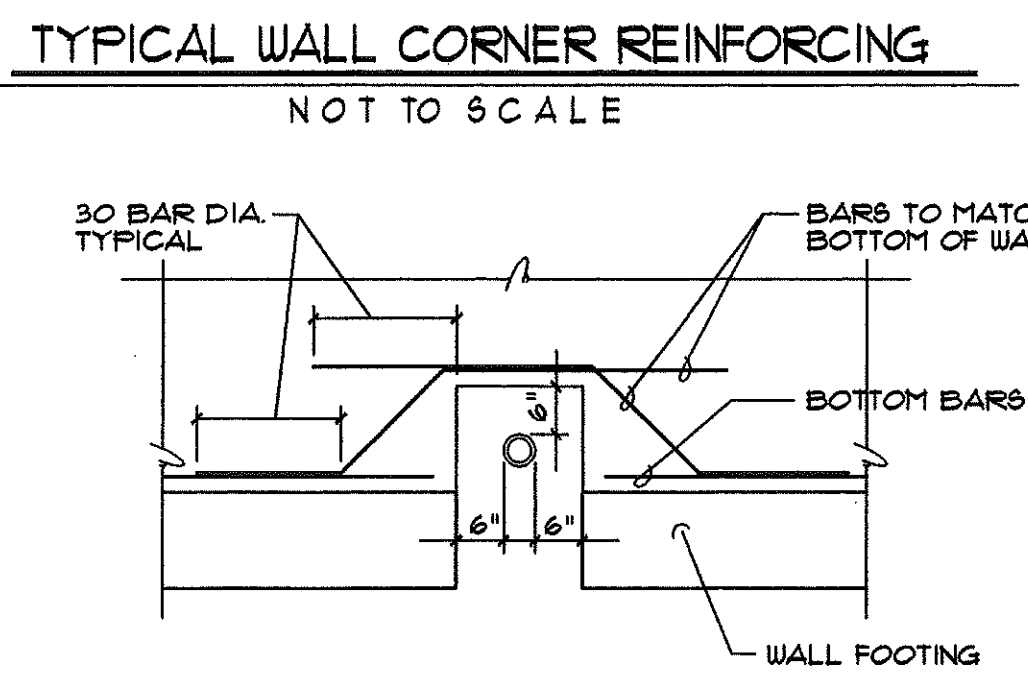
LOCATION OF REBARS IN CONCRETE & WALLS
NOT TO SCALE



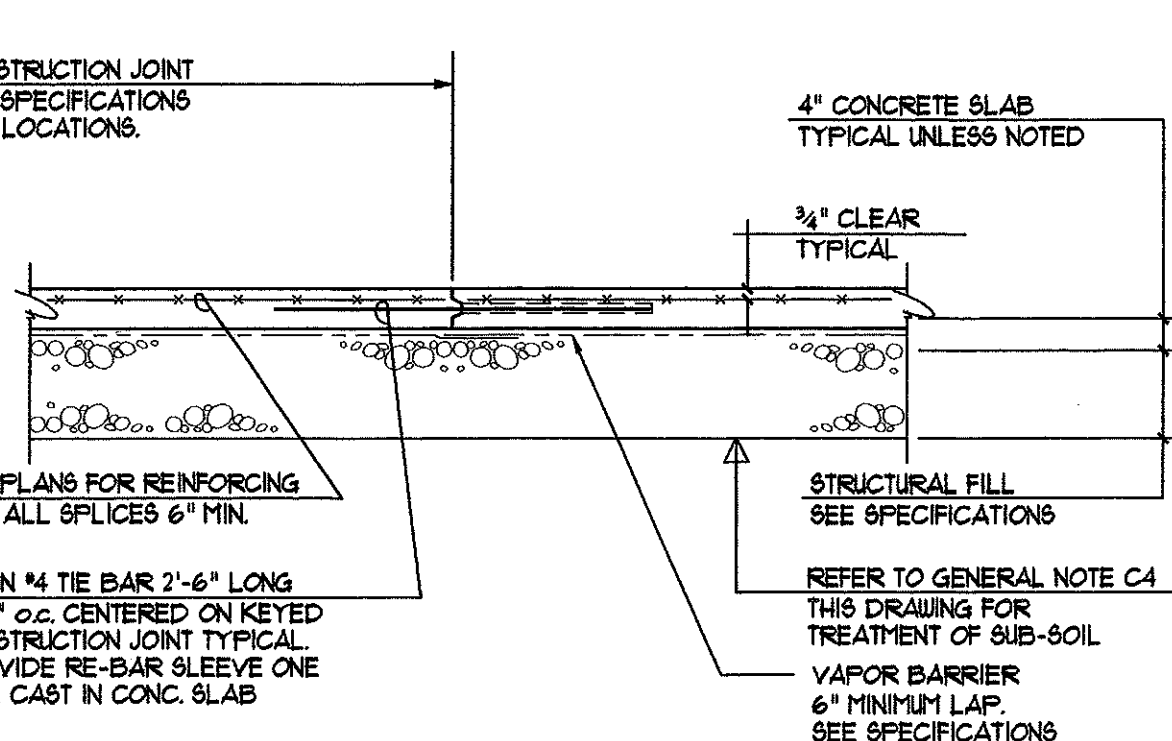
RE-ENTRANT CORNER



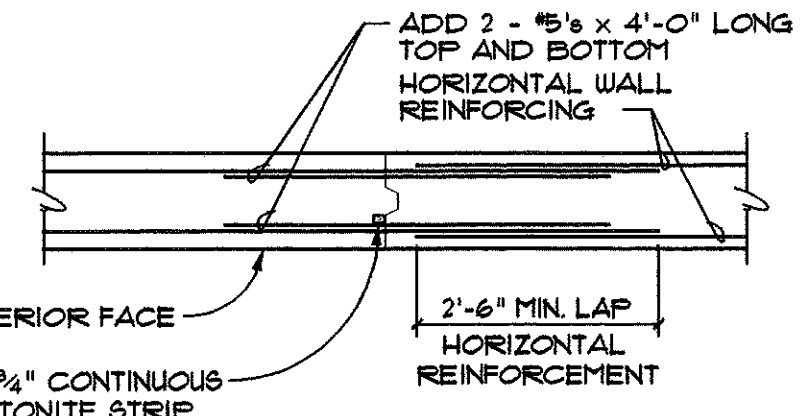
EXTERIOR CORNER



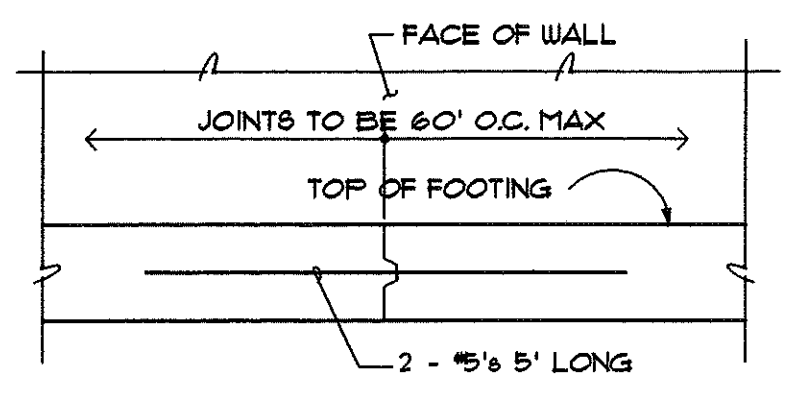
TYPICAL WALL CORNER REINFORCING
NOT TO SCALE



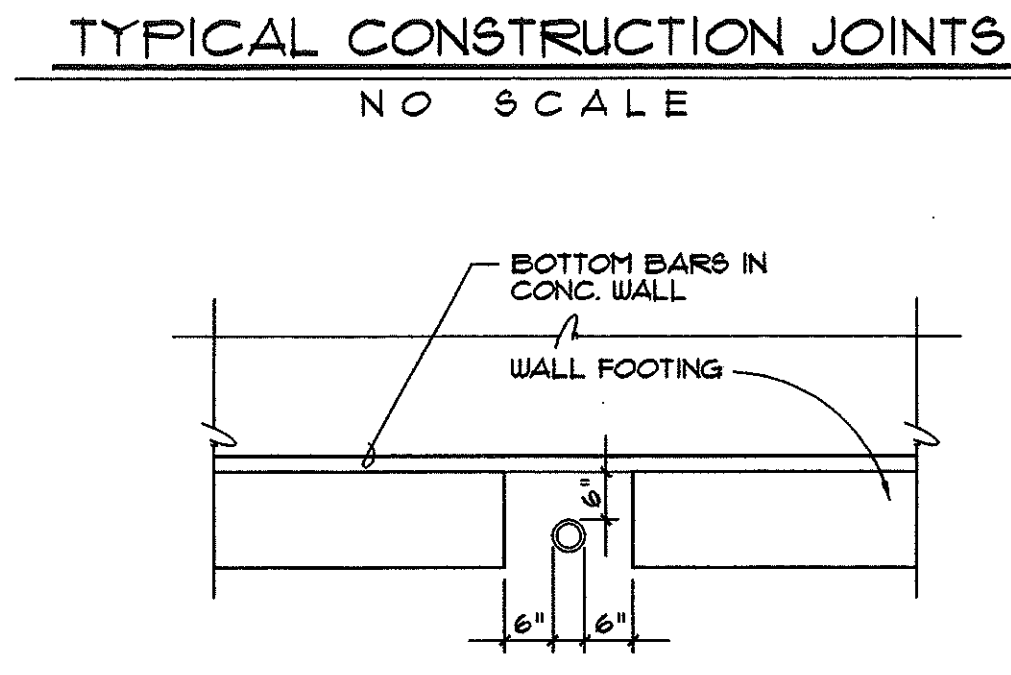
SLAB ON GRADE



FOUNDATION WALL



CONTINUOUS FOOTING



TYPICAL CONSTRUCTION JOINTS
NOT TO SCALE



WALL PIPE PENETRATION DETAIL
NOT TO SCALE



FOOTING PIPE PENETRATION DETAIL
NOT TO SCALE

DESIGN DATA							
CODES USED -		STRESSES USED -		STRUCTURAL STEEL -			
1990 BOCA CODE WITH 1994 CONNECTICUT SUPPLEMENT		SOIL BEARING CAPACITY - 6,000 p.s.f.		BEAMS, GIRDERS 4 IF COLLUMS			
NFPA-905-86 WITH 86 SUPPLEMENT		FOUNDATION FOOTINGS		F _v = 3,000 p.s.f.			
A.I.S.C. - A36-88		WALLS, SLAB ON GRADE		F _v = 3,000 p.s.f.			
A.C.I. 318-85		SLABS ON METAL DECK		F _v = 4,000 p.s.f.			
A.C.I. 308-85		REINFORCING STEEL -		A817M GR 60			
A.C.I. 308-85		TYPICAL BLOCK WALLS		R _v = 1,900 p.s.f.			
A.C.I. 308-85		STEEL DECK INSTITUTE REQUIREMENTS		MISC. SHAPES			
				A817M A-36, F = 36.0 k.s.i.			
				STEEL JOISTS -			
				6.J.I. - 90			
LOAD		LIVE LOAD	SLAB - OR - FINISH	CEILING	FRAMING	MISC.	TOTAL P.S.F.
LOCATION		30'	3	13	7	5	63
MECHANICAL		125	52	3	5	7	197
LOADING TO BE INCREASED IN AREAS OF SNOW DRIFTING AS REQUIRED BY CONNECTICUT STATE BUILDING CODE AND FOR FLOODING AT APPLICABLE AREAS.							
DESIGN PARAMETERS - WIND, SNOW, AND EARTHQUAKE							
GROUND SNOW LOAD -				30.0 P.S.F.			
SNOW EXPOSURE FACTOR (TABLE III.4a)				0.9			
SNOW IMPORTANCE FACTOR (TABLE III.4b)				1.0			
WIND SPEED -				85.0 M.P.H.			
WIND EXPOSURE CLASSIFICATION (SECTION III.2.3)				C			
BUILDING CATEGORY FOR WIND (SECTION III.2.2b)				I			
WIND IMPORTANCE FACTOR				1.03			
EFFECTIVE VELOCITY PRESSURE -				0-20 ft. P _e = 21.0 p.s.f.			
				20-40 ft. P _e = 23.0 p.s.f.			
SEISMIC DATA							
PEAK VELOCITY - RELATED ACCELERATION (SECTION III.3)				A _v = 0.13			
PEAK ACCELERATION (SECTION III.3)				A _a = 0.13			
SEISMIC HAZARD EXPOSURE GROUP (TABLE III.3.5)				GROUP II			
SEISMIC PERFORMANCE CATEGORY (SECTION III.3.1)				C			
SOIL - PROFILE TYPE (GEOTECHNICAL REPORT)				S-10			
BASIC STRUCTURAL SYSTEM				MOMENT-RESISTING FRAME SYSTEM AND BEARING WALL SYSTEM			
SEISMIC - RESISTING SYSTEM				ORDINARY MOMENT FRAMES OF STEEL AND REINFORCED MASONRY WALLS			
RESPONSE MODIFICATION FACTOR (TABLE III.3.3)				R = 4 1/2			
DEFLECTION AMPLIFICATION FACTOR (TABLE III.3.3)				C _d = 4			
ANALYSIS PROCEDURE UTILIZED				EQUIVALENT LATERAL FORCE			

GENERAL NOTES

- A. FILL AND BACKFILL**
- ALL AREAS WITHIN THE STRUCTURE WILL BE STRIPPED OF EXISTING MATERIALS BEFORE FILLING TO REQUIRED GRADES. FILL WILL BE PLACED IN 6" LAYERS AND COMPACTED WITH MECHANICAL VIBRATORS TO A MINIMUM OF 95% PROCTOR DENSITY AS DEFINED BY ASTM D1557.
 - PROVIDE 6" COMPACTED GRANULAR FILL UNDER ALL SLABS ON GRADE. A VAPOR BARRIER IS TO BE PLACED OVER THE FILL UNDER ALL INTERIOR SLABS ON GRADE.
 - NO WALLS ARE TO BE BACKFILLED UNTIL CONCRETE HAS BEEN IN PLACE A MINIMUM OF 7 DAYS, UNLESS DIRECTED BY THE RESIDENT ENGINEER.
- B. CONCRETE**
- CONCRETE STRENGTH AT 28 DAYS SHALL BE AS INDICATED IN DESIGN DATA.
 - PROTECTIVE COVER, SPlice LAP AND EMBEDMENT FOR REINFORCING STEEL SHALL BE PER A.C.I. SPECIFICATION.
 - CONTINUOUS WALL FORMS SHALL NOT EXCEED 60 FEET IN ONE DIRECTION. SEE TYPICAL DETAIL THIS SHEET FOR CONSTRUCTION JOINT.
 - SLABS ON GRADE SHALL BE PLACED OVER A VAPOR BARRIER. CONTROL JOINTS TO BE LOCATED AS SHOWN ON PLANS.
 - ALL CONCRETE WALLS ARE TO BE REINFORCED. IF NOT SHOWN PROVIDE 2 #6 BARS TOP AND BOTTOM CONTINUOUS AND #4 BARS AT 18" ON CENTER BOTH WAYS BOTH FACES.
 - CONSTRUCTION JOINTS FOR FRAMED CONCRETE SLABS SHALL BE PLACED AS DIRECTED BY THE RESIDENT ENGINEER. SEE DETAIL BELOW.
- C. FOOTINGS**
- ELEVATION OF BOTTOM OF FOOTINGS TO BE VERIFIED WITH FIELD CONDITIONS.
 - ALL FOOTINGS TO BEAR ON FIRM, UNDISTURBED SOIL HAVING A SAFE BEARING CAPACITY AS STATED IN DESIGN DATA.
 - ALL WALL FOOTINGS ARE TO BE 1'-0" DEEP AND EXTEND 6" BEYOND EACH FACE OF WALL UNLESS NOTED OTHERWISE.
 - THE SUBGRADE IN FOOTING EXCAVATIONS SHALL BE COMPACTED WITH A MINIMUM OF FOUR (4) COVERAGES USING HAND-GUIDED VIBRATORY COMPACTION EQUIPMENT. SOFT OR LOOSE MATERIALS SHALL BE REMOVED AND REPLACED WITH COMPACTED GRANULAR FILL.
- D. STRUCTURAL STEEL**
- STANDARD DOUBLE ANGLE CONNECTIONS ARE TO BE USED FOR STEEL FRAMING INTO STEEL UNLESS OTHERWISE NOTED. CONNECTIONS ARE TO BE ADEQUATE FOR INCREASED REACTIONS WHEN DUE TO REQUIREMENTS OF CONCENTRATED LOADS NEAR ENDS OF BEAMS. ALL PIPE CONNECTIONS ARE TO BE CONSTRUCTED WITH THRU PLATES.
 - ALL ENDS OF COLUMNS AT SPICES AND AT CAP AND BASE PLATES SHALL BE MILLED TO COMPLETE THE BEARING.
 - ALL CONNECTIONS TO BE SELECTED TO SUPPORT THE UNIFORM LOAD TABLE'S MAXIMUM UNIFORM LOAD AS CALLED FOR IN THE A.I.S.C. UNLESS THE REACTIONS ARE INDICATED ON THE PLANS.
 - ALL WELDING TO BE PERFORMED BY AUBS CERTIFIED WELDERS AND IN ACCORDANCE WITH ALL AUBS STANDARDS.
 - ALL WELDING TO BE PERFORMED USING E70-XX ELECTRODES.
 - THE STEEL ERECTOR IS RESPONSIBLE FOR ERECTING TEMPORARY BRACINGS AND GUYING ON CONCRETE AND STEEL FRAMING UNTIL ALL CONNECTIONS, FLOOR SLABS AND MASONRY WALLS HAVE BEEN COMPLETED. BRACING SHALL NOT BE REMOVED UNLESS DIRECTED BY THE ENGINEER.
- E. SLAB AND ROOF OPENINGS**
- VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. FRAME ALL OPENINGS NOT SHOWN 4x4x5/16 ANGLES. CONTRACTOR IS TO COORDINATE ALL OPENINGS WITH MECHANICAL.
- F. LINTELS**
- PROVIDE LINTELS FOR ALL MASONRY OPENINGS UNLESS OTHERWISE INDICATED.
 - ALL LINTELS TO BEAR A MINIMUM OF 8" AT EACH END.
 - ALL EXPOSED LINTELS SHALL BE HOT DIPPED GALVANIZED.

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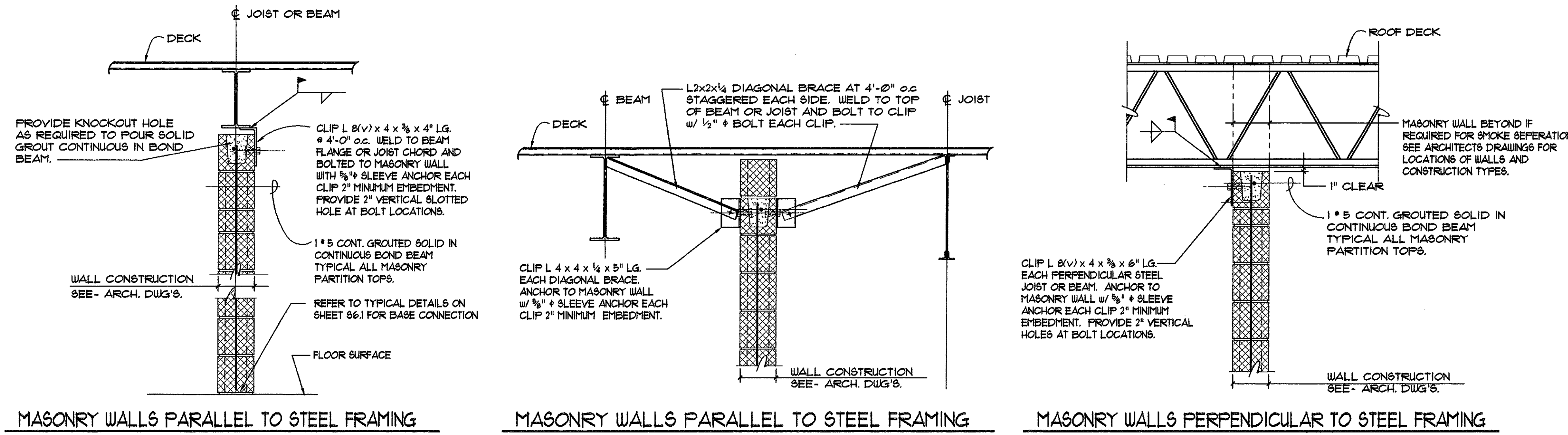
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No.	Description	Date
Revisions		

TYPICAL STRUCTURAL DETAILS
Scale: As Noted Drawn By: KA
Date: 12-1-98 Checked By: MG

Gleed Hill Elementary School
Hebron, Connecticut
Additions and Renovations
State Project Number 067-030-EA

STATE OF CONNECTICUT
REGISTERED PROFESSIONAL ENGINEER
No. 8008
EXPIRES 12/31/00
S6.1

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TYPICAL INTERIOR MASONRY WALL CONNECTIONS
NOT TO SCALE

MASONRY OPENING	LINTEL SECTION	REINFORCING
UP TO 3'-4"	8" x 8"	2 #3
3'-4" TO 6'-0"	8" x 8"	3 #4
6'-0" TO 8'-0"	8" x 16"	3 #5
UP TO 3'-4"	6" x 8"	1 #4
3'-4" TO 6'-0"	6" x 8"	2 #4

ALL LINTELS TO BEAR 8" EACH END UNLESS OTHERWISE NOTED ON THE DRAWINGS

MASONRY OPENING	SIZE
TYPICAL	
UP TO 3'-4"	ONE ANGLE - 4" VERT. x 3 1/2" HORIZ. x 1/4" FOR EACH 4" OF MASONRY THICKNESS
3'-4" TO 6'-0"	ONE ANGLE - 5" VERT. x 3 1/2" HORIZ. x 5/16" FOR EACH 4" OF MASONRY THICKNESS
6'-0" TO 8'-0"	ONE ANGLE - 6" VERT. x 3 1/2" HORIZ. x 3/8" FOR EACH 4" OF MASONRY THICKNESS
6" MASONRY PARTITIONS	
UP TO 3'-4"	UT 4 x 5
3'-4" TO 6'-0"	UT 4 x 10S
6'-0" TO 8'-0"	UT 1 x 13
ALL OTHER LINTELS SEE STRUCTURAL DRAWINGS	

ALL LINTELS TO BEAR 8" EACH END UNLESS OTHERWISE NOTED ON THE DRAWINGS

EXTEND ALL HANG LINTEL ENDS 4" MINIMUM INTO MASONRY EACH END.

BOLT VERTICAL ADJACENT ANGLE LEGS WITH 1/2" BOLTS @ 24" O.C.

ALL EXTERIOR LOOSE LINTELS TO BE HOT DIPPED GALVANIZED.

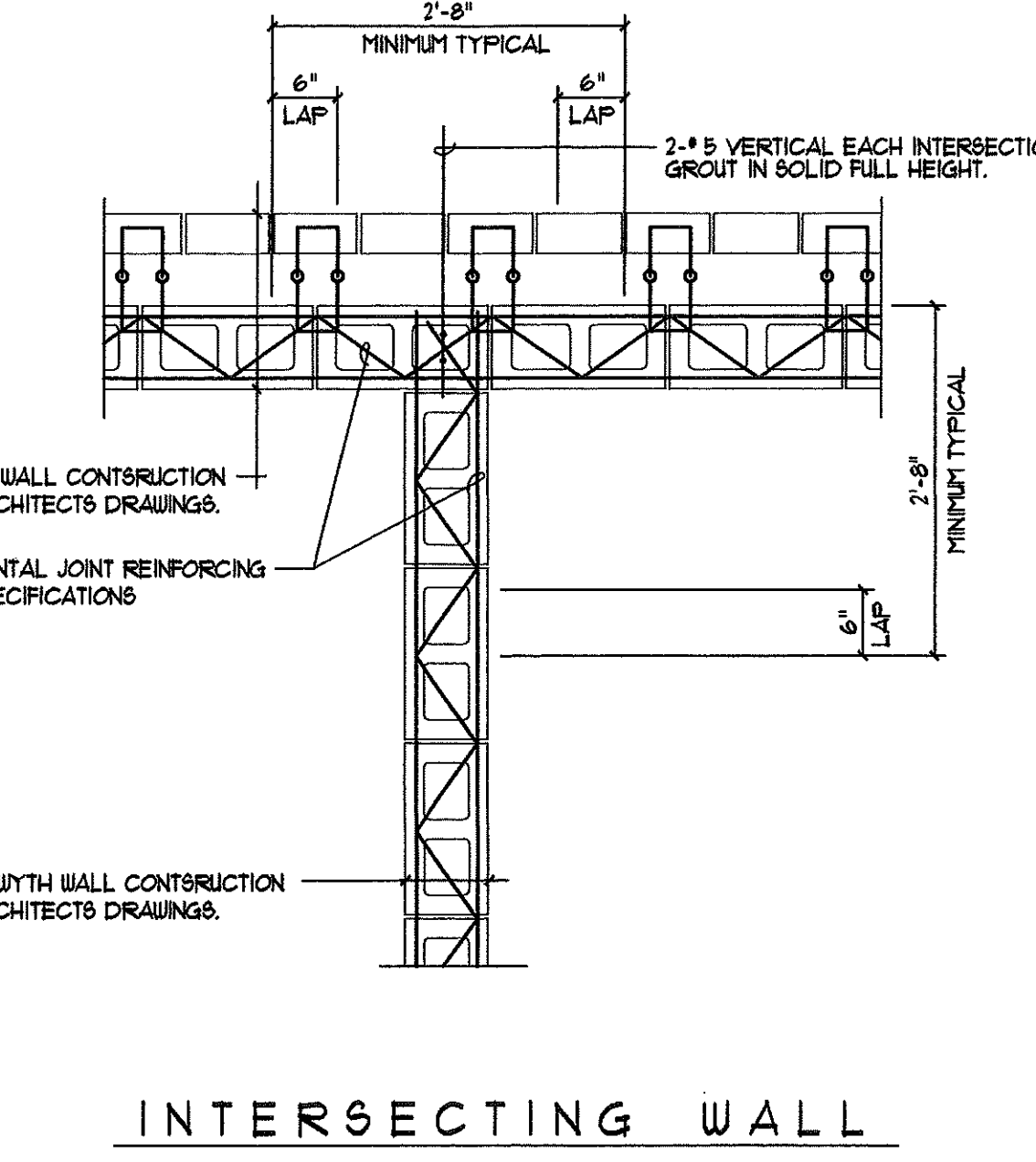
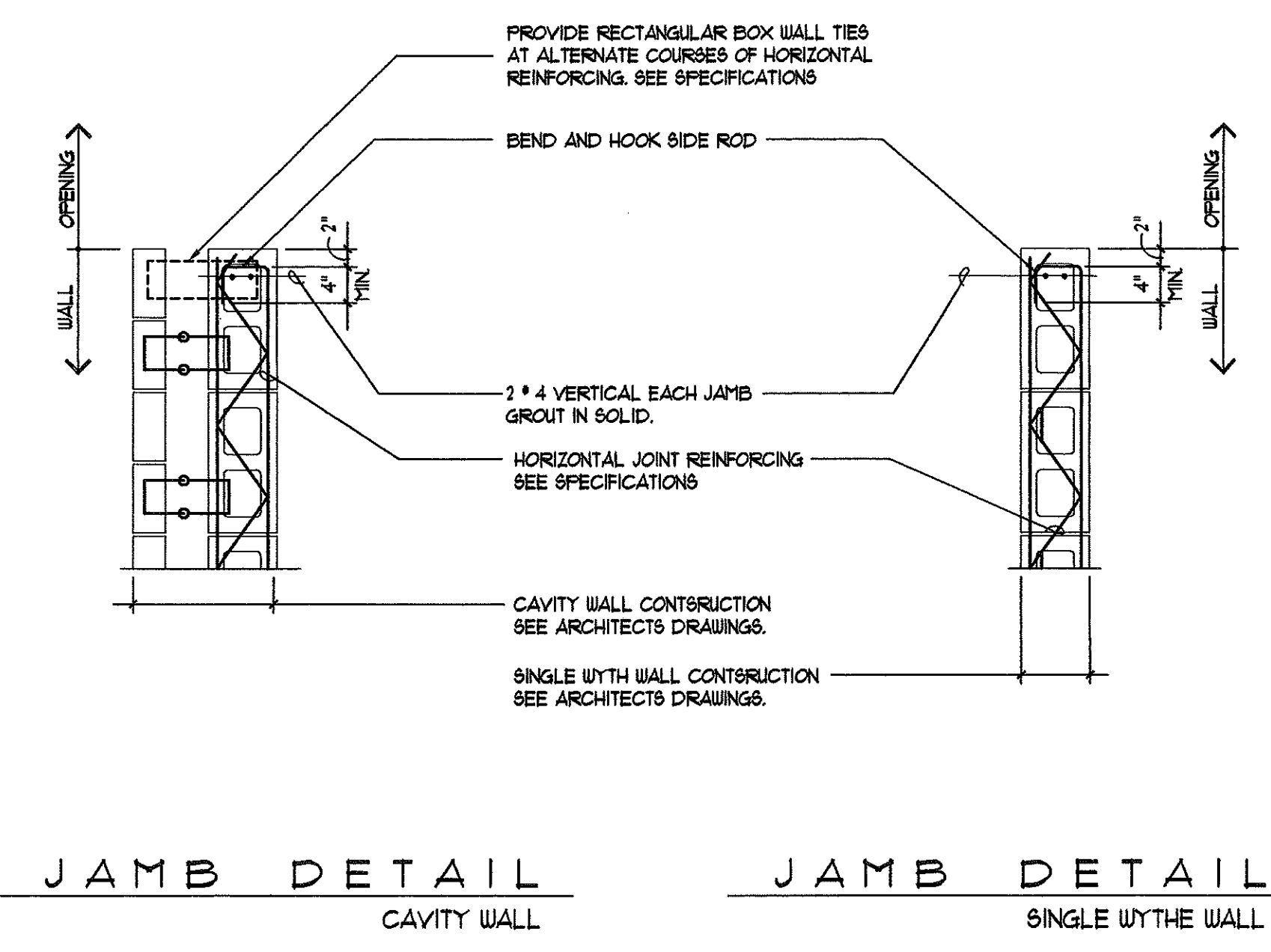
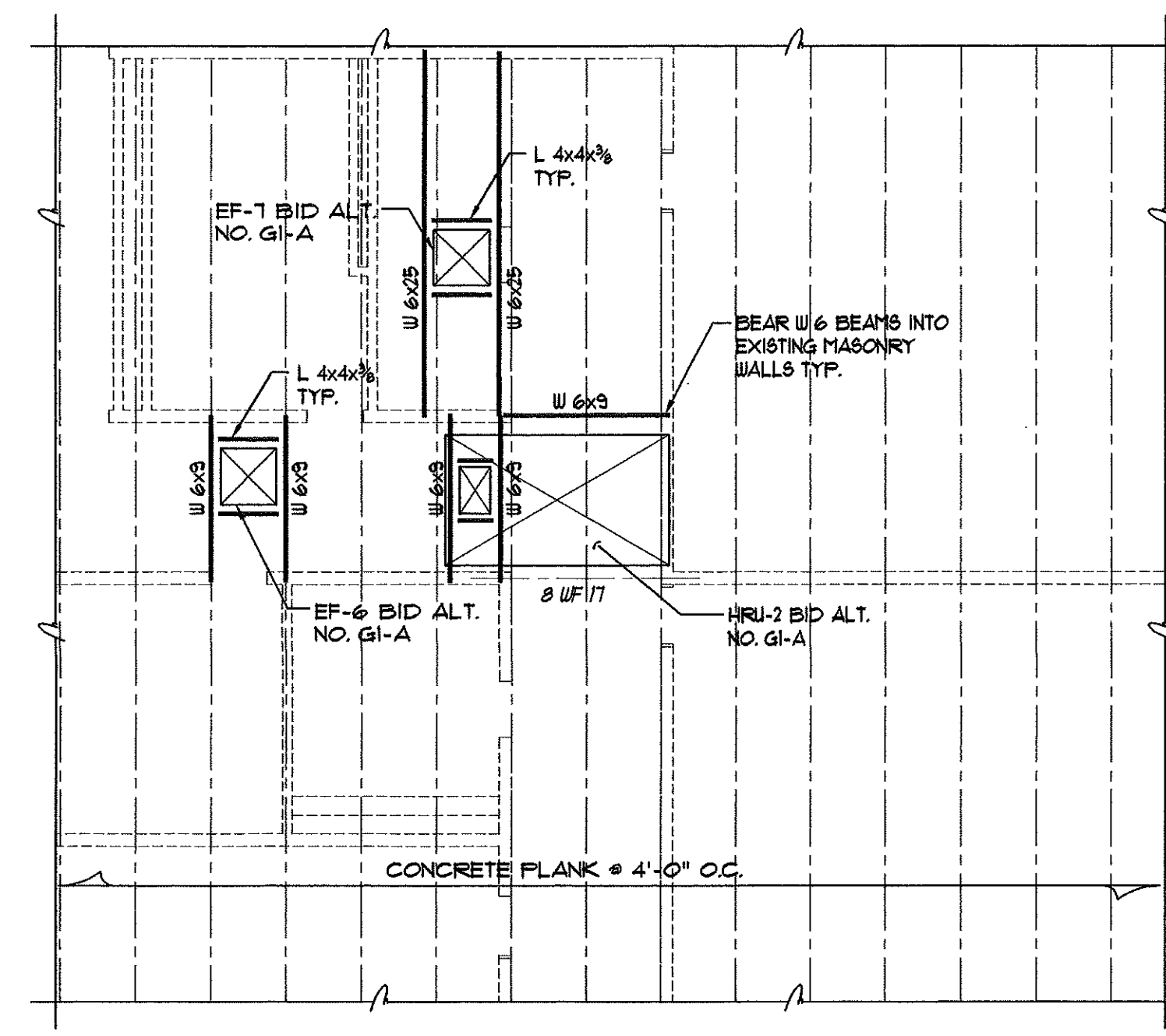
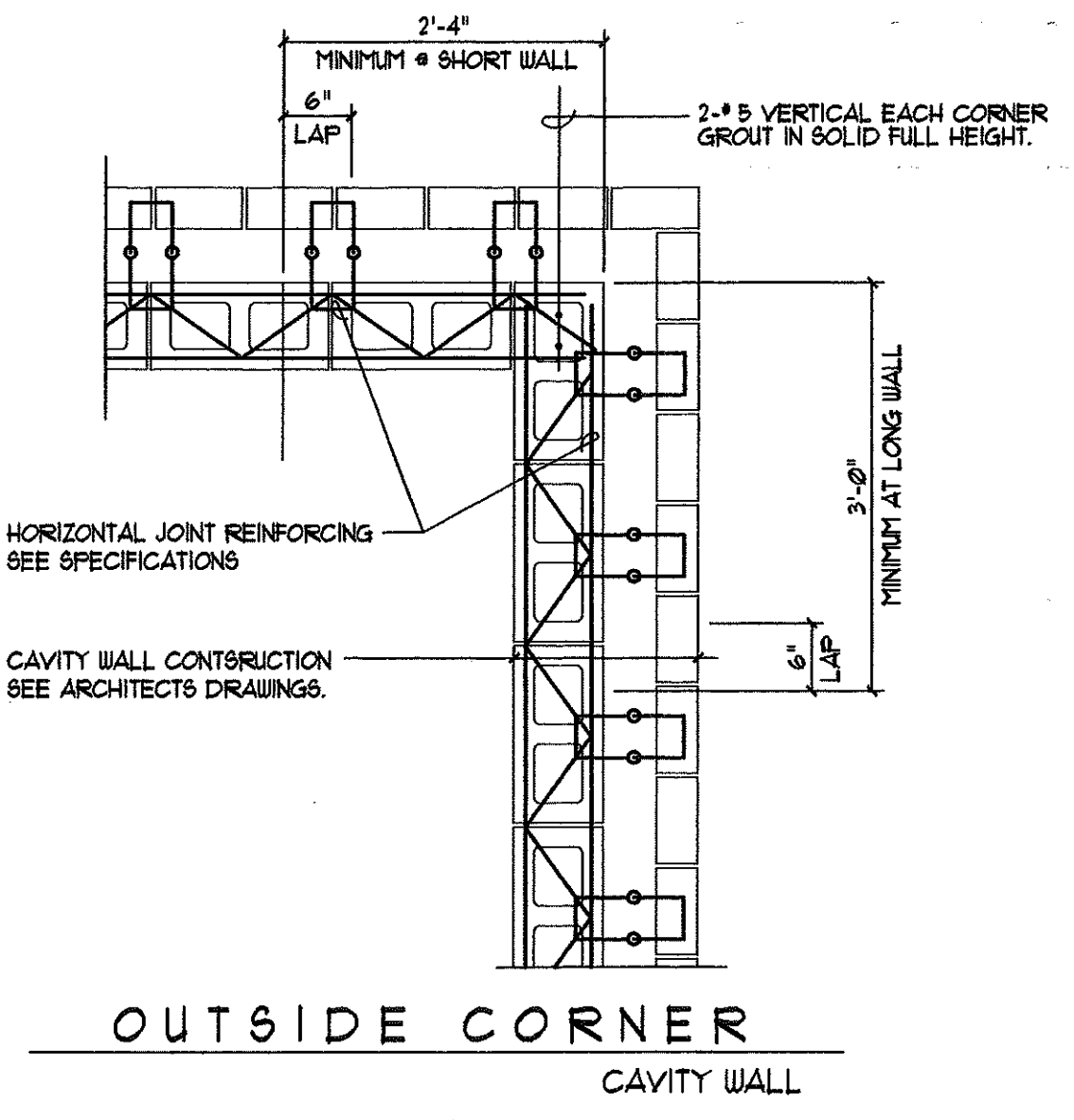
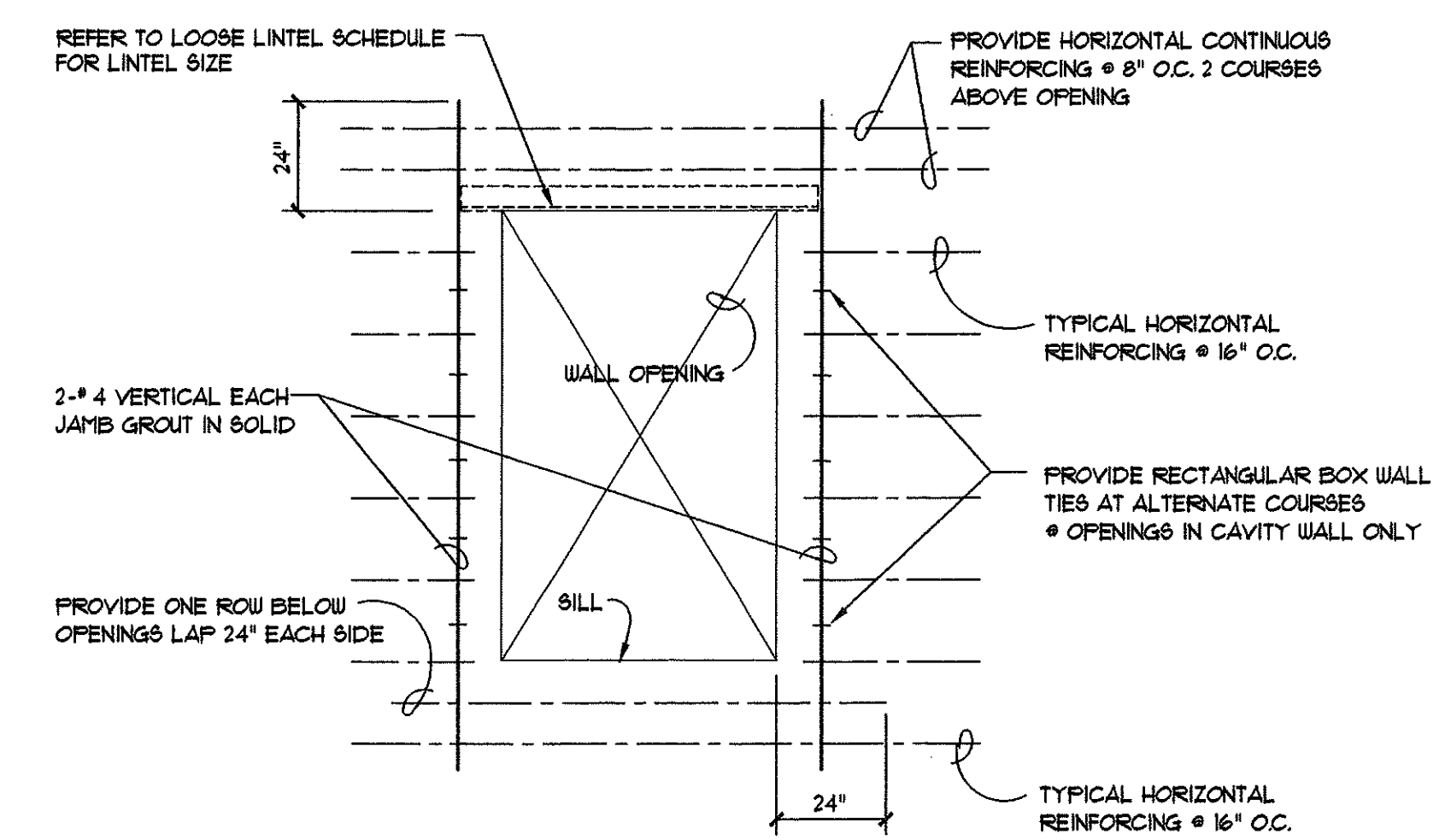
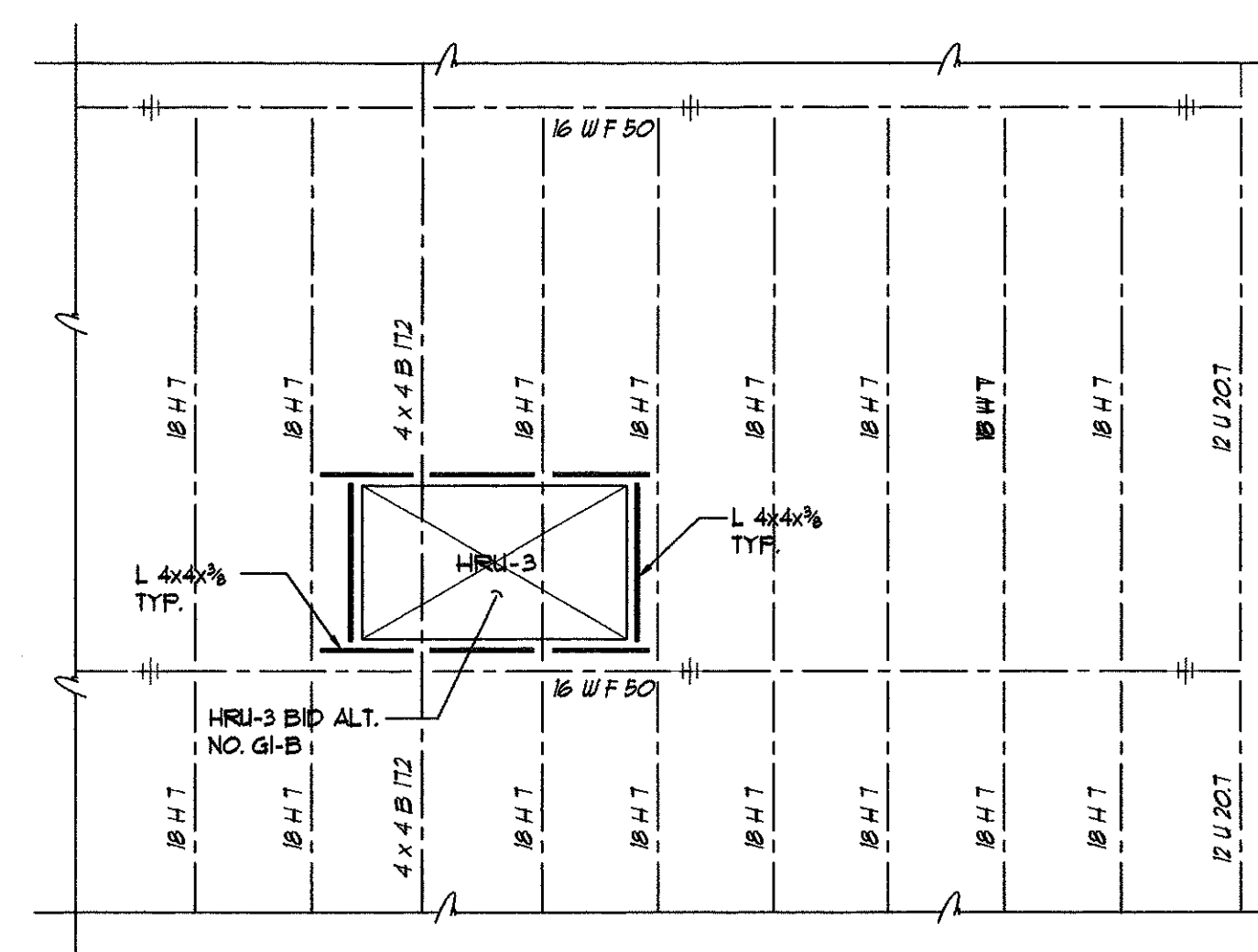
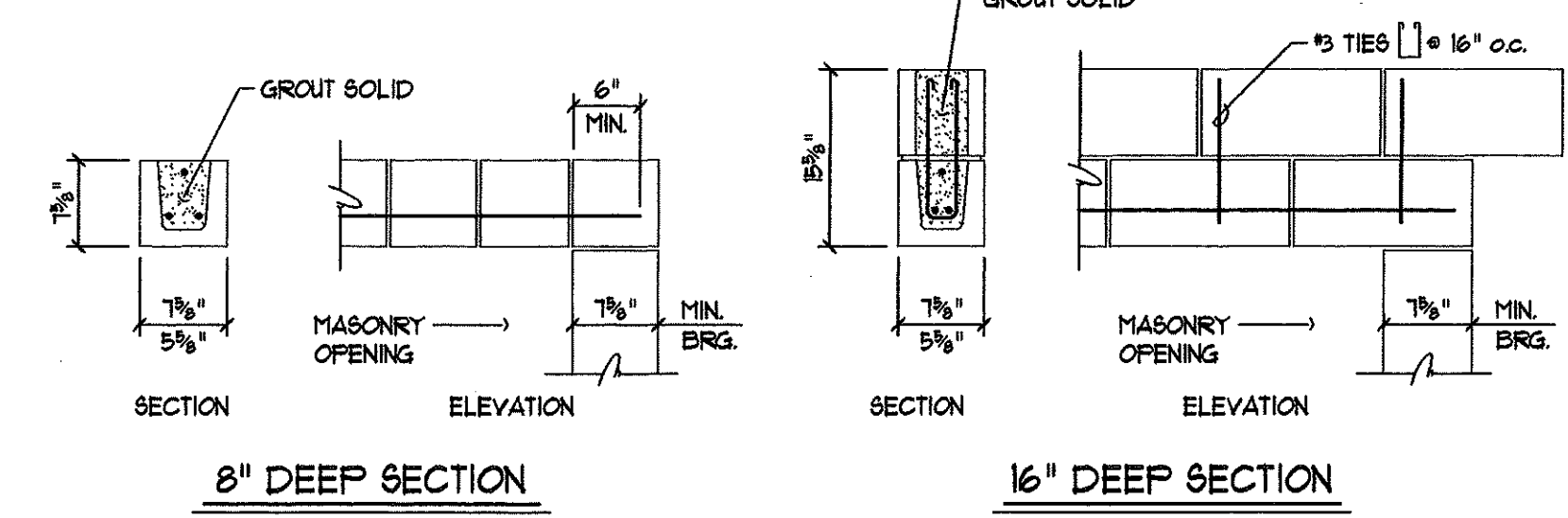
GROUT SOLID MASONRY CELLS ONE COURSE EACH SIDE OF UT WEB AT 6" MASONRY PARTITIONS.

WALL TYPE & HEIGHT	HORIZONTAL REINFORCING	VERTICAL REINFORCING	REMARKS
EXTERIOR WALLS	UP TO 4'-0" SEE TYP. DETAIL	4 #4 @ 48" O.C.	GROUT VOIDS SOLID + REINFORCING
UP TO 6'-0"	WIRE TYPE SEE TYP. DETAIL	5 #4 @ 48" O.C.	PROVIDE CONC. FILLED HORIZ. BOND BEARS @ 8" O.C.
UP TO 12'-0"	WIRE TYPE SEE TYP. DETAIL	4 #4 @ 48" O.C.	GROUT VOIDS SOLID + REINFORCING
INTERIOR WALLS	UP TO 14'-0" SEE TYP. DETAIL	NO REIN. UNO.	RESTRAIN TOP & BOTTOM SEE TYPICAL DETAILS FOR MASONRY CONNECTIONS
UP TO 26'-0"	WIRE TYPE SEE TYP. DETAIL	NO REIN. UNO.	D.O.
UP TO 12'-0"	WIRE TYPE SEE TYP. DETAIL	NO REIN. UNO.	D.O.
UP TO 10'-0" MAX	WIRE TYPE SEE TYP. DETAIL	NO REIN. UNO.	RESTRAIN TOP & BOTTOM SEE TYPICAL DETAILS FOR MASONRY CONNECTIONS

INDICATES DISTANCE FROM FLOOR TO POINT OF SUPPORT ABOVE FLOOR

NOTES:

- GROUT SHALL BE USED FOR FILLING VOIDS IN MASONRY REINFORCING LOCATIONS. (DO NOT USE MORTAR) SEE SPECIFICATIONS FOR GROUT PROPORTIONS.
- CONCRETE FOR FILLING HORIZONTAL BOND BEARS SHALL BE 2500 P.S.I. 1/2" DIA. MAX. ADEQUATE SIZE TO BE 3/8" DO NOT USE PORTLAND IN BOND BEARS. CONCRETE FOR BOND BEARS MAY BE TIED AT SITE.
- REFER TO SHEET S6.1 FOR BASE OF MASONRY WALL CONNECTION AT HAUNCHED SLAB ON GRADE FOR 6" MASONRY UNITS. SEE TYPICAL CONNECTIONS FOR MASONRY WALLS FOR 6" AND 4" MASONRY UNITS AND 8" MASONRY UNITS AT FRAMED SLABS.



TYPICAL MASONRY WALL REINFORCEMENT DETAILS
NOT TO SCALE

- ALL VERTICAL REINFORCEMENT TO BE IN PLACE AND TIED BEFORE CELLS GROUTED SOLID.
- ALL VERTICAL REINFORCEMENT TO BE PLACED IN CENTER OF MASONRY WYTHE.

Architects
C.J. Lawler Associates
7 South Main Street, West Hartford, Connecticut 06107
(860) 233-8882

GIRARD & CO. ENGINEERS
Structural Engineers
43 Wallerfield Avenue, Hartford, Connecticut 06114
(860) 654-9196

M.R. ROMING ASSOCIATES
Landscape Architects-Land Planners
224 Whiting Lane, West Hartford, Connecticut 06119
(860) 233-1255

van ZELM HEYWOOD & SHADFORD INC
Mechanical and Electrical Engineers
29 South Main Street, West Hartford, Connecticut 06107
(860) 651-4529

FOOD SERVICE DESIGN
Food Service
P. O. Box 18191, East Hartford, CT 06118
(860) 658-7101

ENVIRO SAFE
Safety and Environmental Health Consultant Services
7 Rogers Lake Trail, Old Lyme, Connecticut 06371
(860) 434-9383

CLARK ENGINEERING
Engineering Services
P. O. Box 419, Granby, CT 06035
(860) 653-4382

MEGSON & HEAGLE
Civil Engineers Land Surveyors
81 Rankin Road, Glastonbury, CT 06033
(860) 659-0587

No.	Description	Date
01	BID ISSUE	4-30-99

TYPICAL STRUCTURAL DETAILS

Scale: As Noted Drawn By: KA
Date: 12-1-98 Checked By: MG

Gleed Hill Elementary School
Hebron, Connecticut

Additions and Renovations

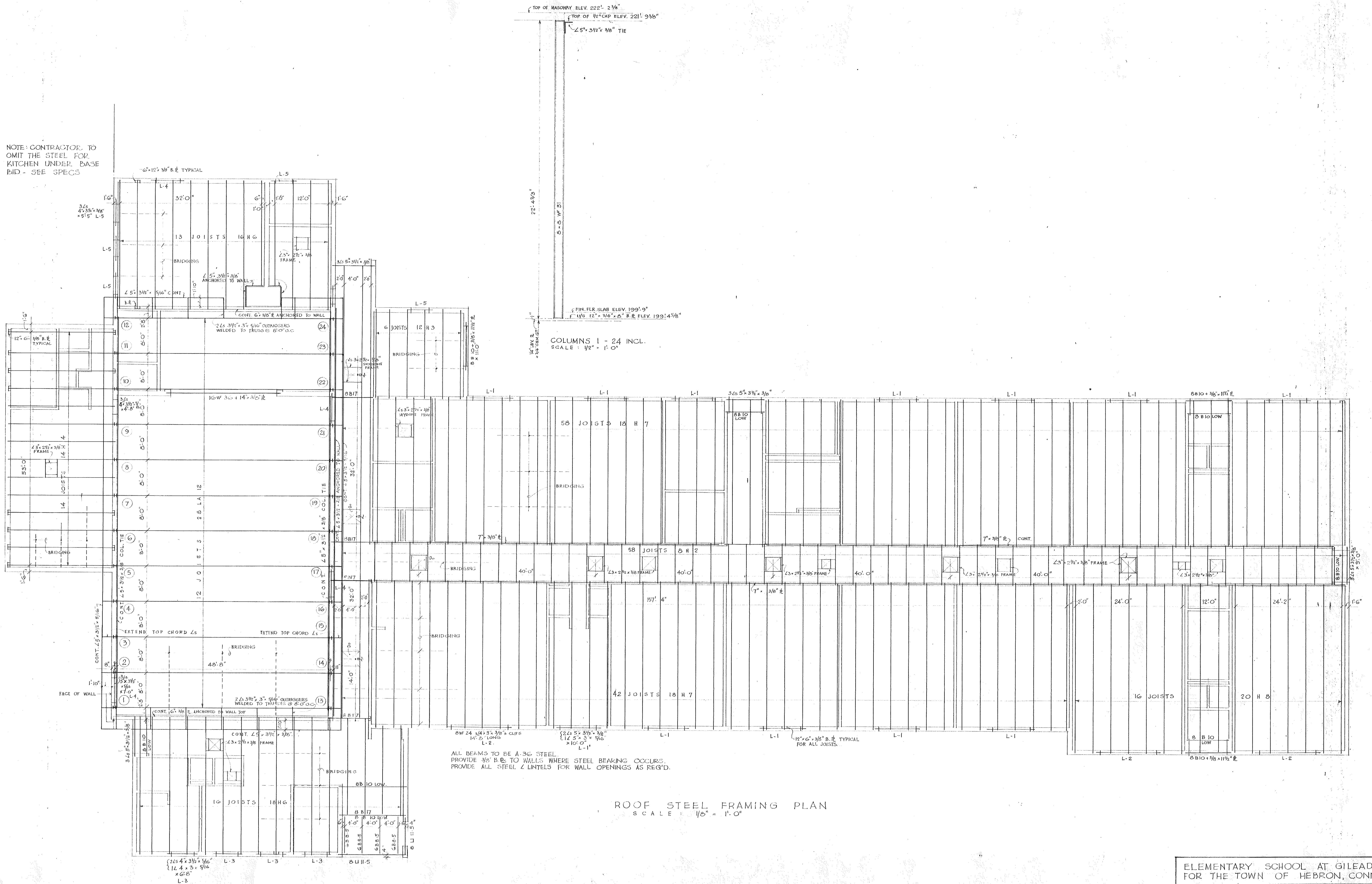
State Project Number
067-030-EA

Professional Engineer Seal for Michael J. Givens, No. 9058, State of Connecticut, Exp. 12/31/00.

S6.2

H:\99_148_61\hard_school\Struct_Dwg\98148_56_2.dwg F:\1 May 14 14:16:35 1999 Girard & Co. Engineers

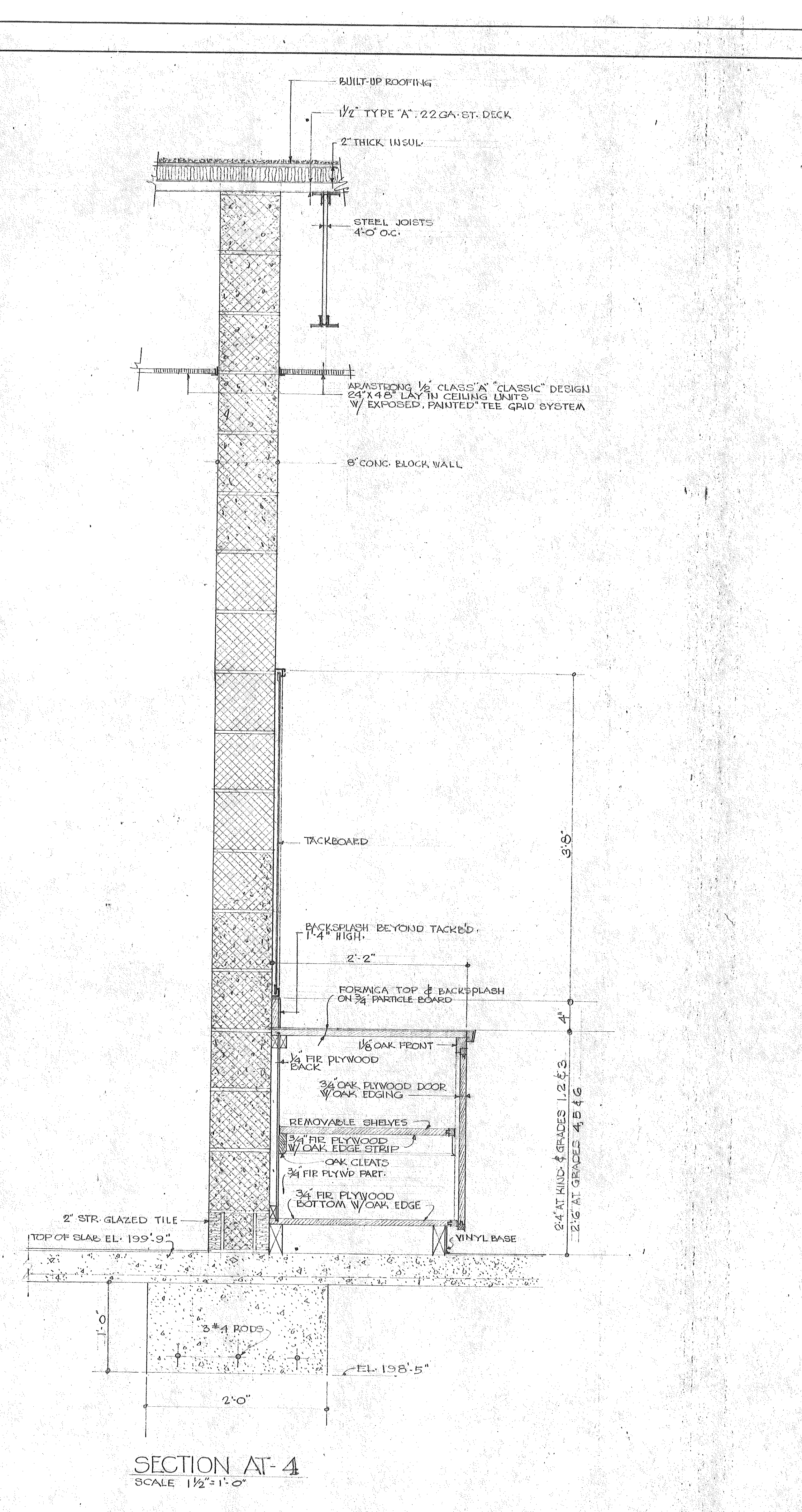
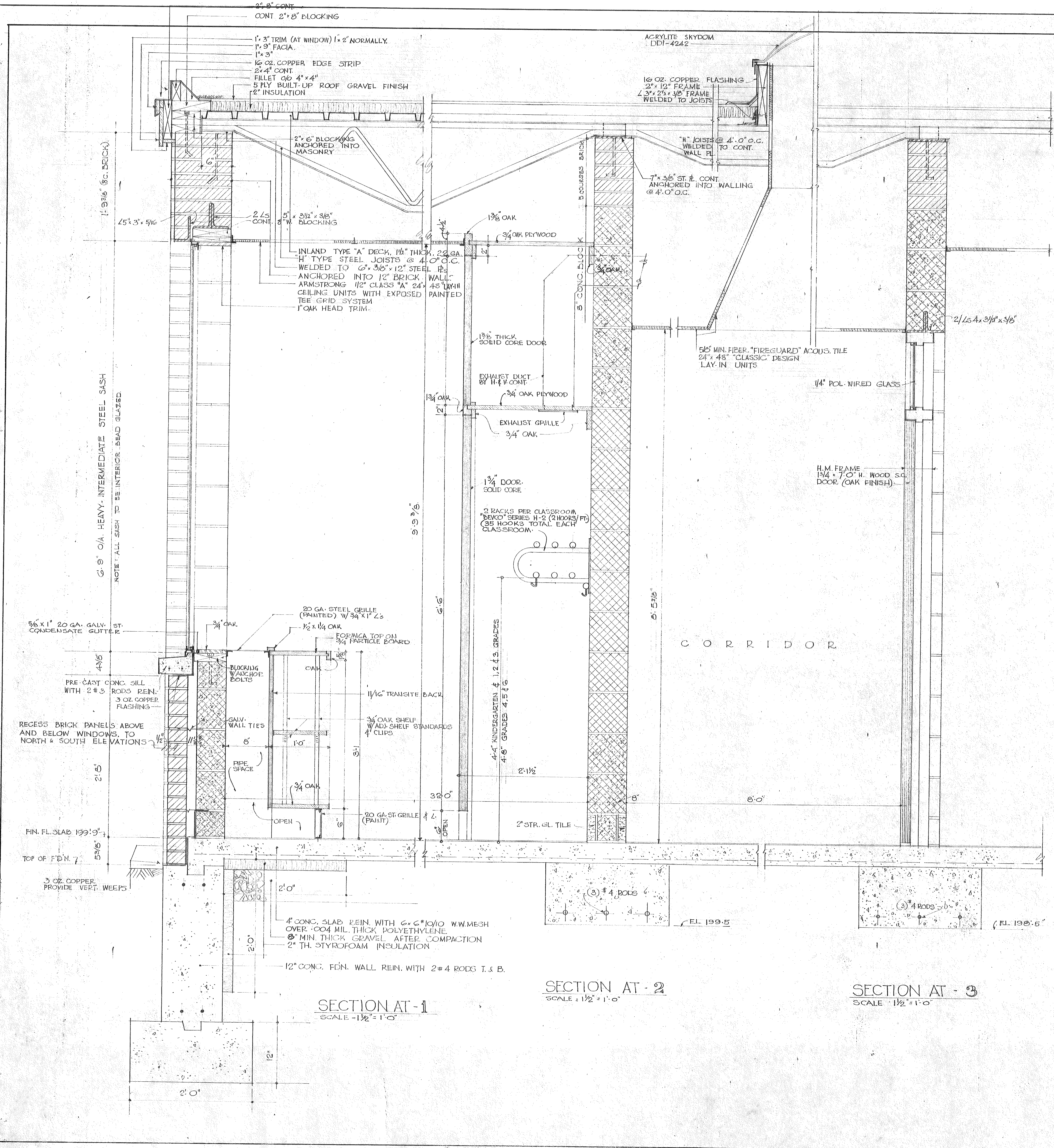
NOTE: CONTRACTOR TO OMIT THE STEEL FOR KITCHEN UNDER BASE BID - SEE SPECS



ROOF STEEL FRAMING PLAN
SCALE: 1/8" = 1'-0"

ALL BEAMS TO BE A-36 STEEL
PROVIDE 3/8" B.B. TO WALLS WHERE STEEL BEAKING OCCURS.
PROVIDE ALL STEEL Z LINTELS FOR WALL OPENINGS AS REQ'D.

ELEMENTARY SCHOOL AT GILEAD FOR THE TOWN OF HEBRON, CONN.	
	STRUCTURAL FRAMING PLAN
	OFFICE OF CHANDLER & PALMER ASSOC. ARCHITECTS & ENGINEERS NORWICH, CONN.
	DWN: J.K. CH'D: DATE: 3 NOV 1966 DRAWING NO. 7 OF 24



SECTION AT-1
SCALE 1/2" = 1'-0"

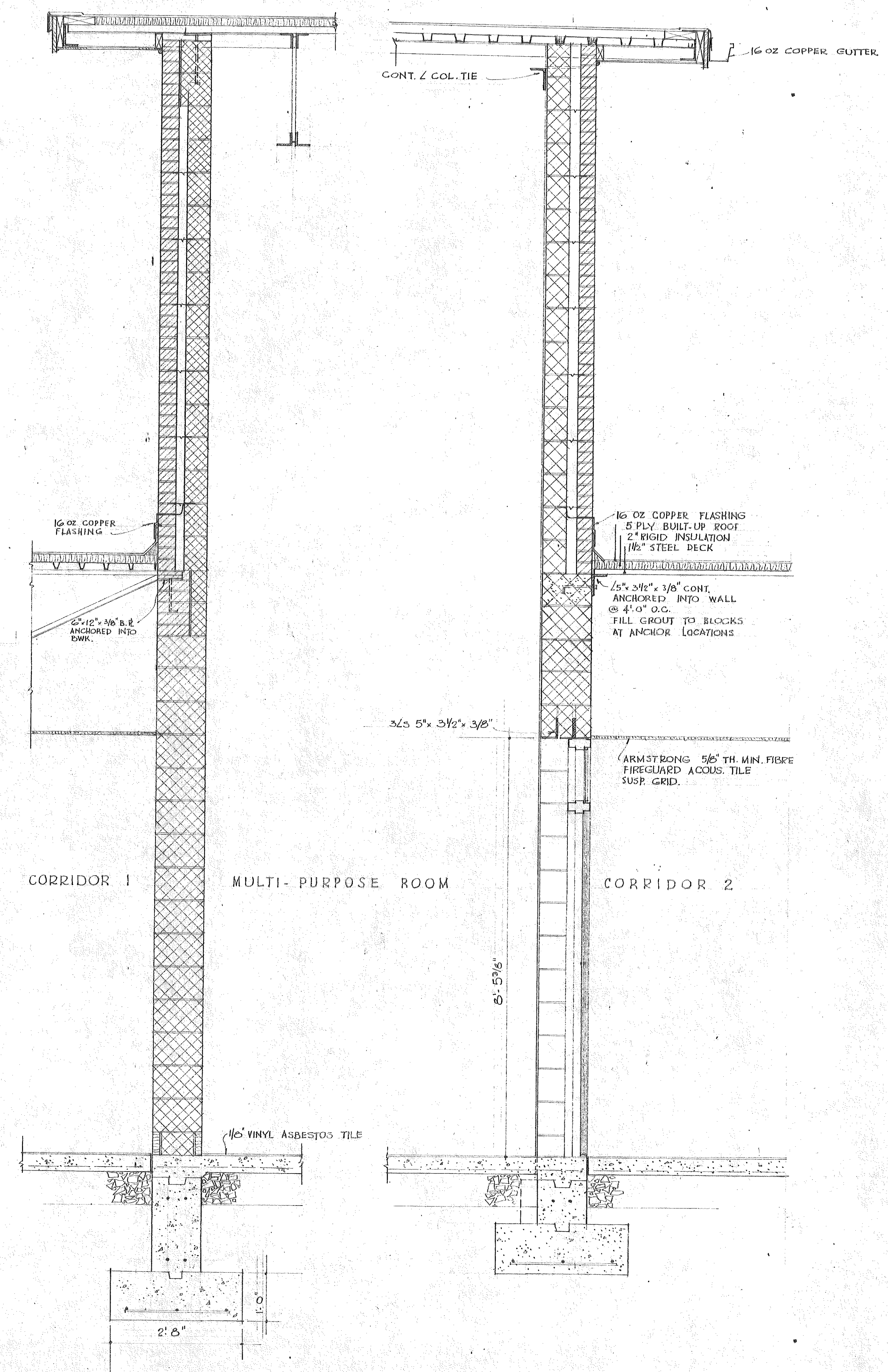
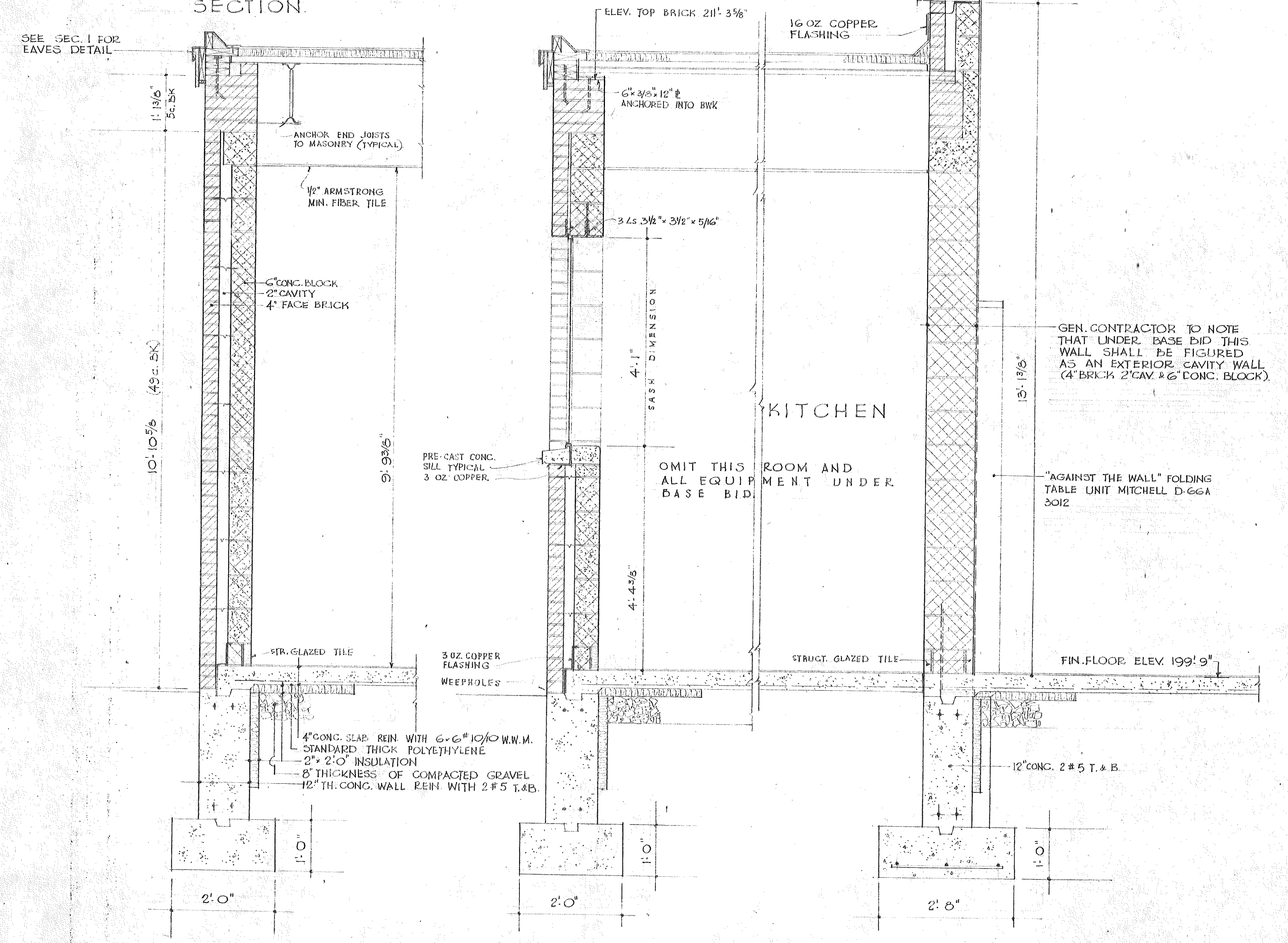
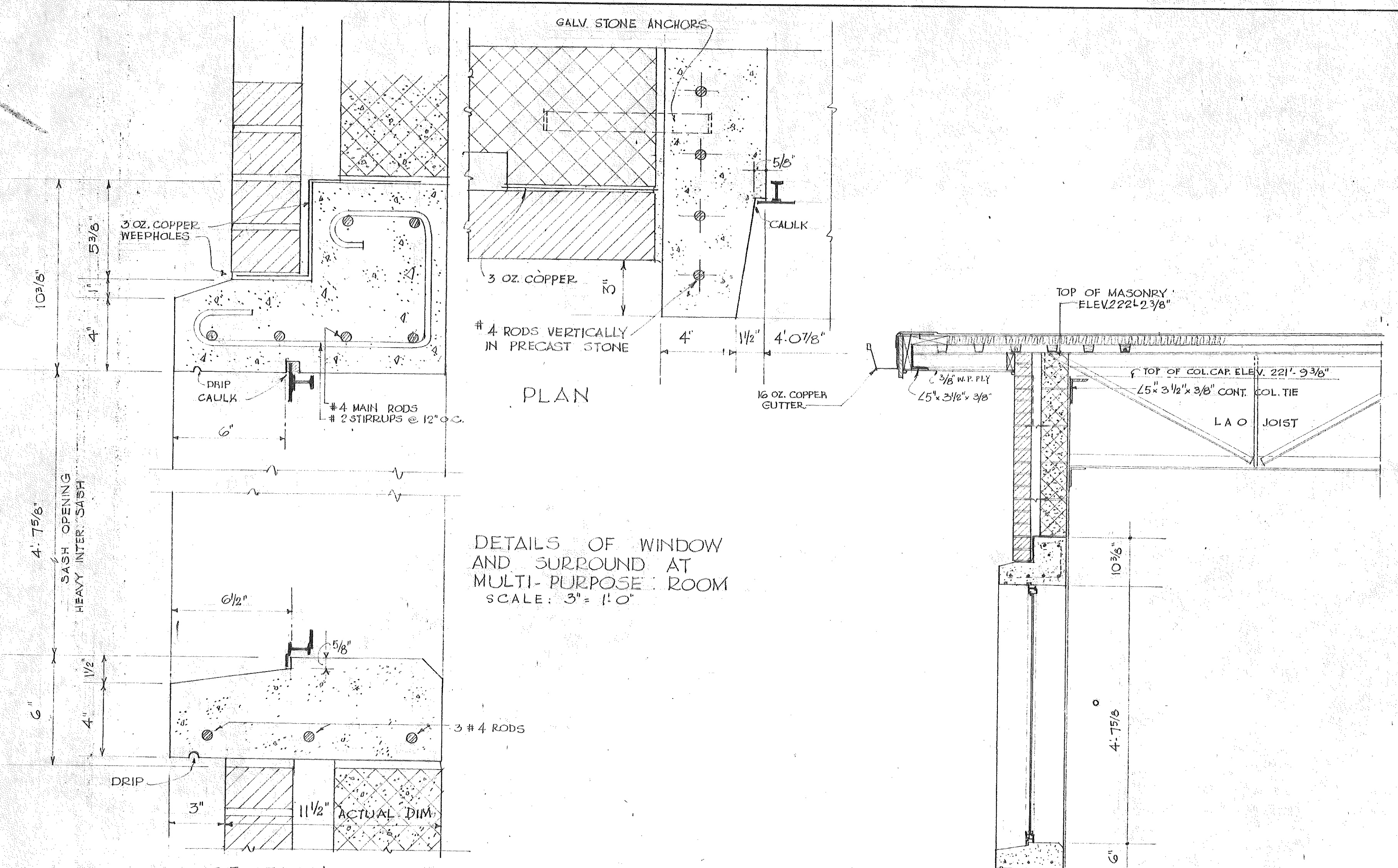
SECTION AT-2
SCALE 1/2" = 1'-0"

SECTION AT-3
SCALE 1/2" = 1'-0"

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

ELEMENTARY SCHOOL AT GILEAD
FOR THE TOWN OF HEBRON, CONN.

	WALL SECTIONS	DWN: J.K. & L.H.
		CHKD BY: BHP
	OFFICE OF CHANDLER & PALMER, ASSOC. ARCHITECTS & ENGINEERS NORWICH, CONN.	DATE: NOV 1966
		DRAWING NO. 8 OF 24



SECTION 5

SECTION 6

SECTION 7

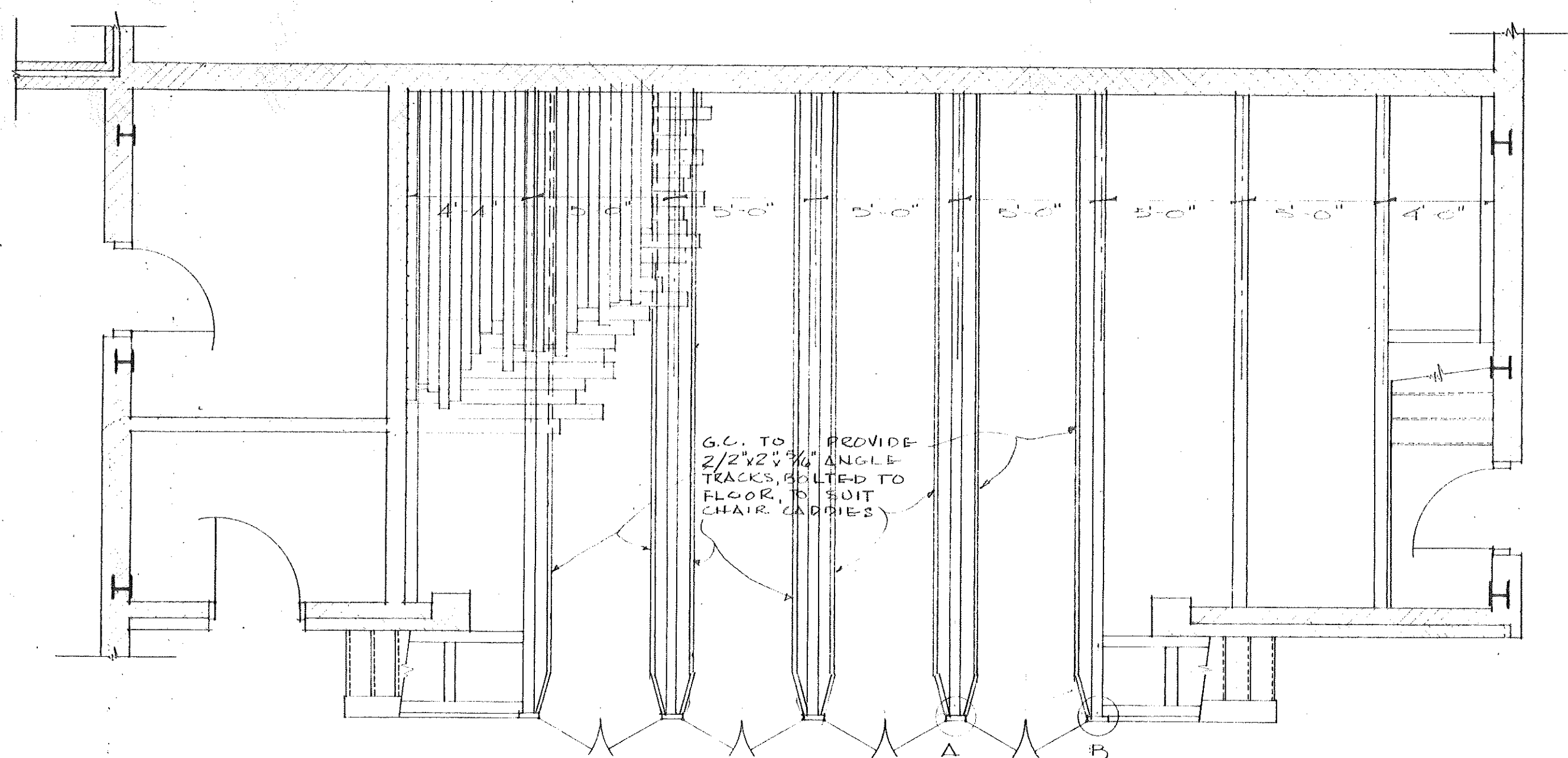
SECTION 8

SECTION 9

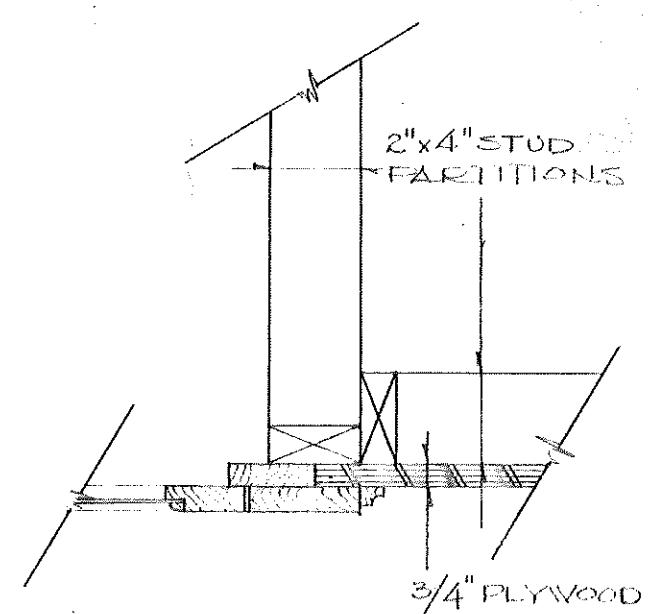
SECTION SCALE: 3/4" = 1'-0"

ELEMENTARY SCHOOL AT GILEAD FOR THE TOWN OF HEBRON, CONN.

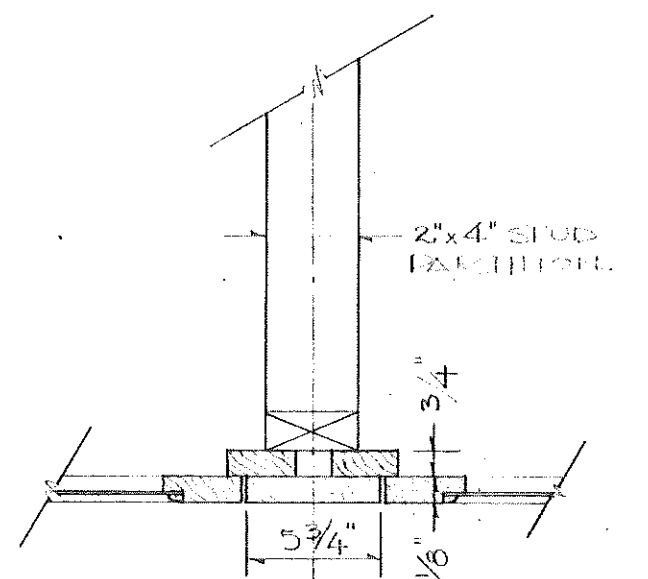
	SECTIONS 5-9	DWN: J.K.
	OFFICE OF CHANDLER & PALMER, ASSOC. ARCHITECTS & ENGINEERS NORWICH, CONN.	DATE: 3 NOV 1966
		DWG NO: 9 OF 24



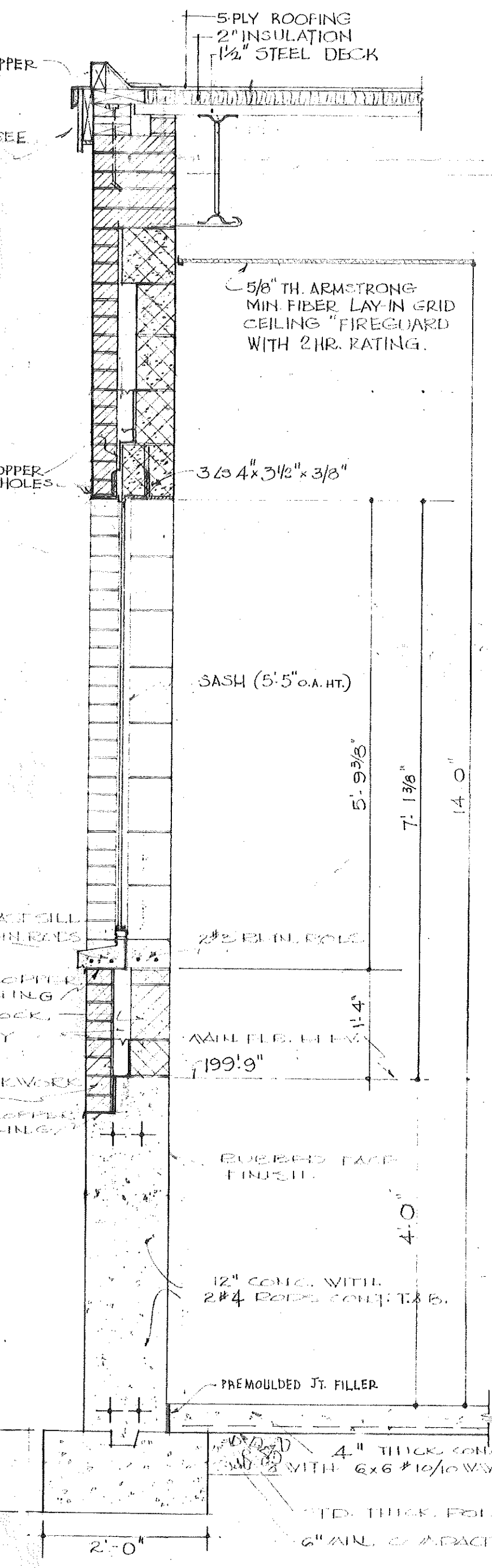
PLAN OF STAGE FRAMING
SCALE: 1/4" = 1'-0"



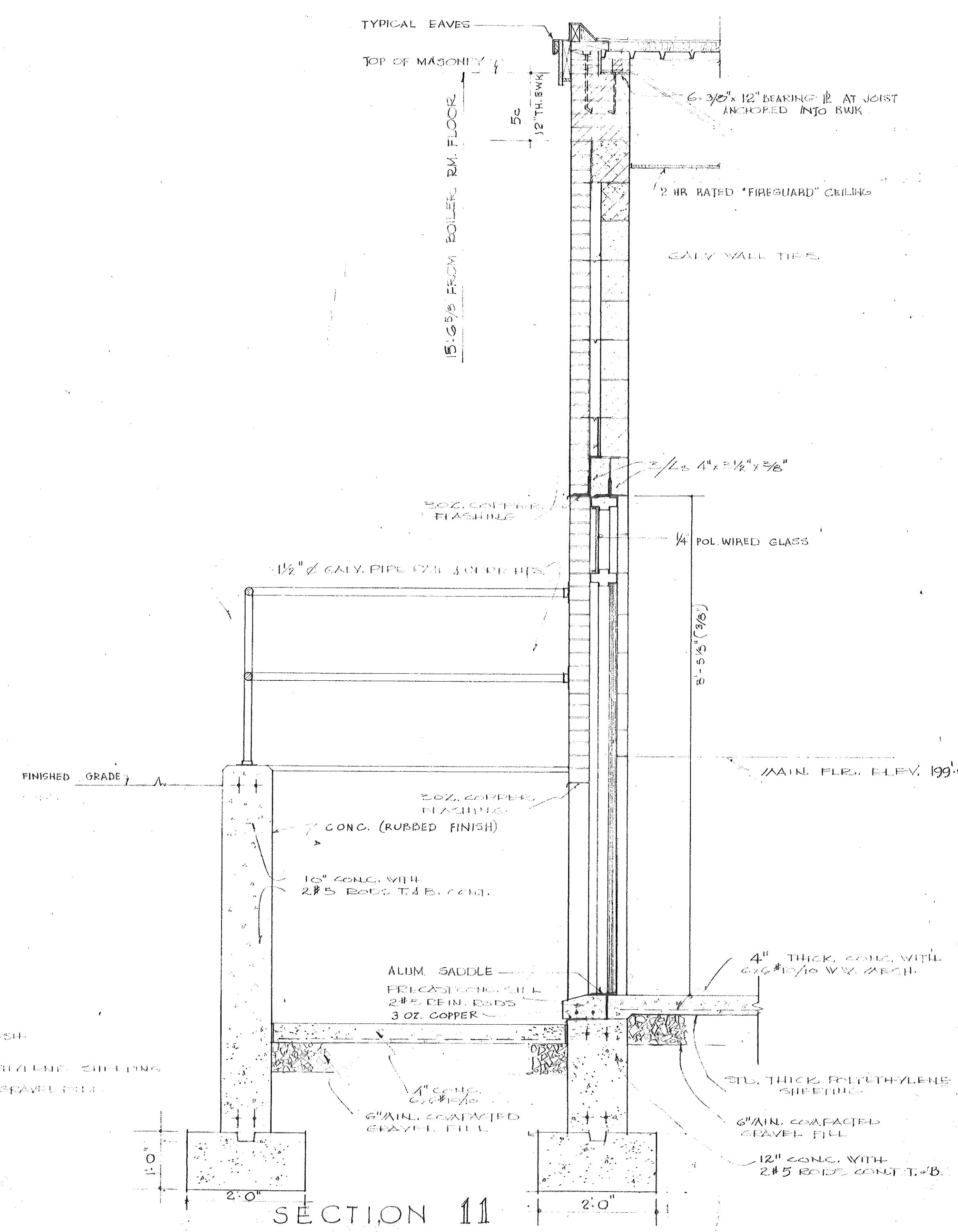
DETAIL B
SCALE: 1/2" = 1'-0"



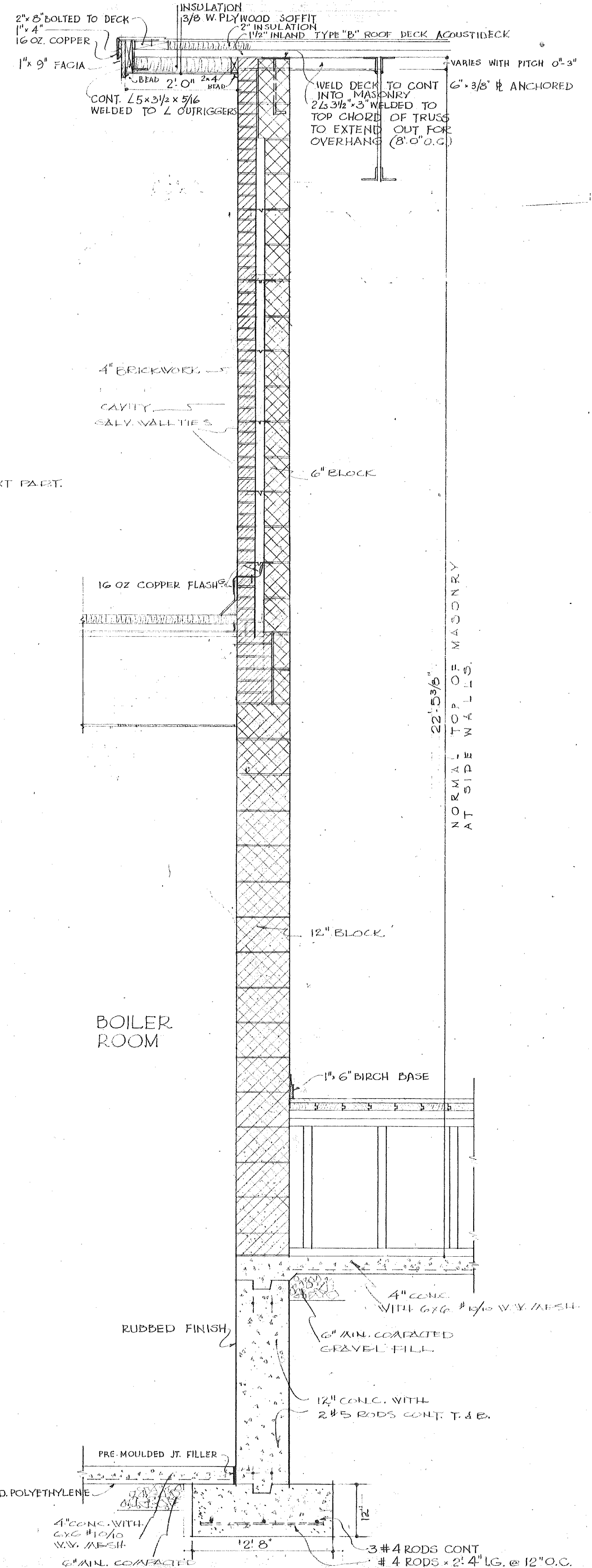
DETAIL A
SCALE: 1/2" = 1'-0"



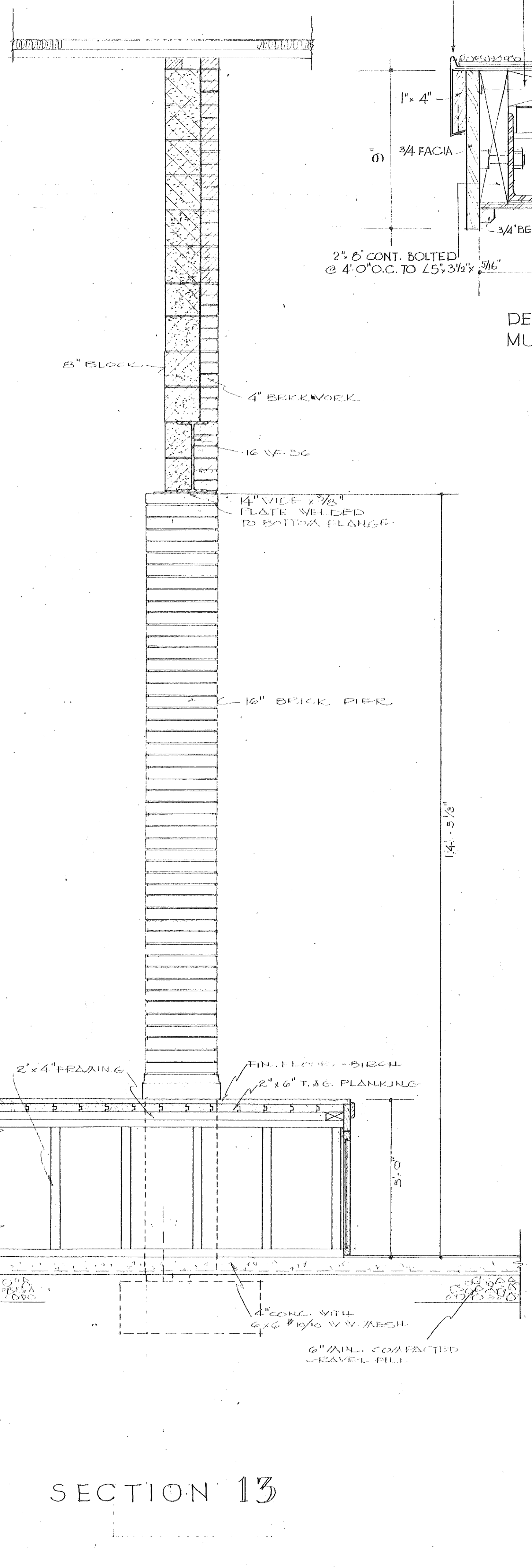
SECTION 10



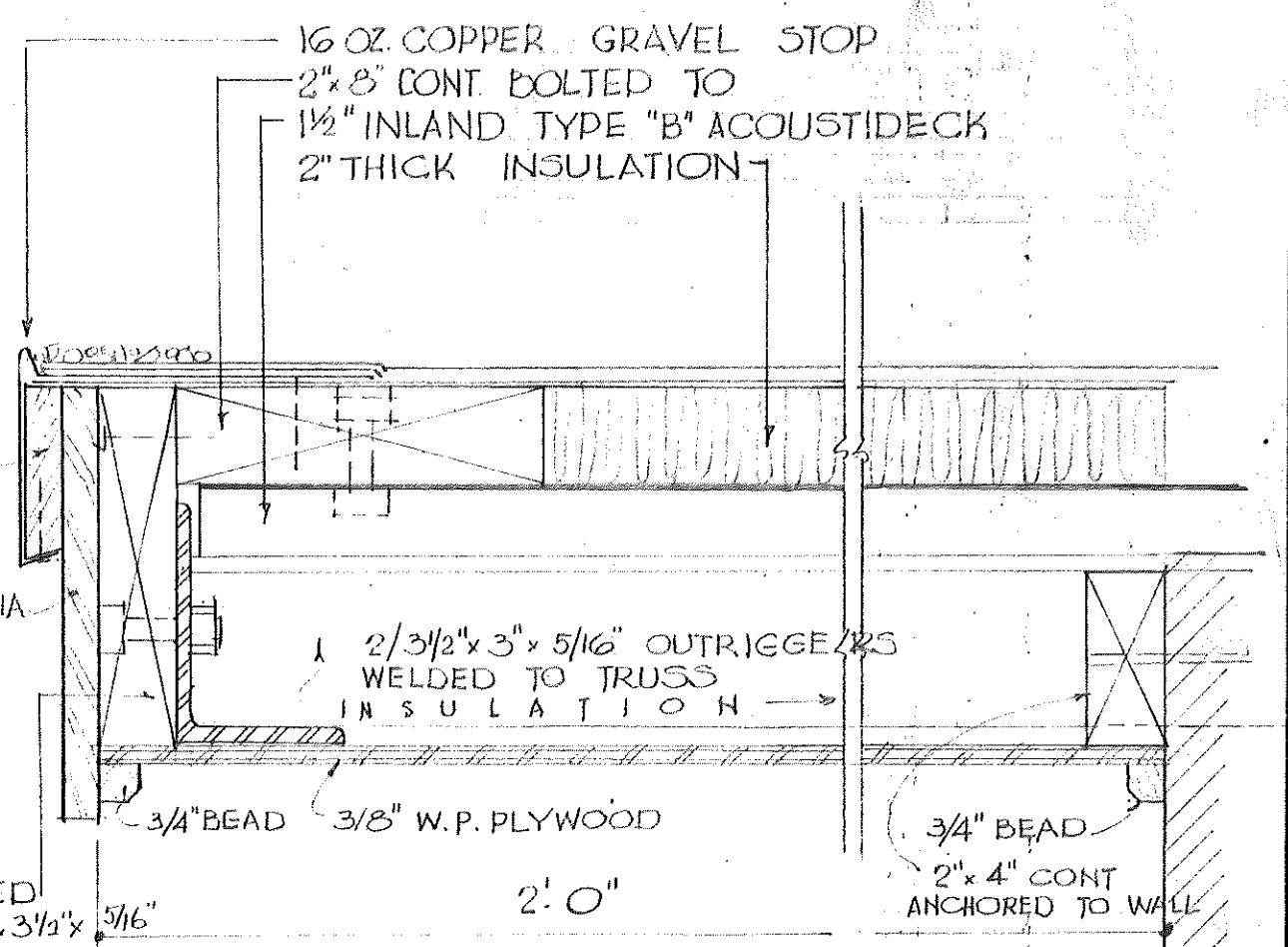
SECTION 11



SECTION 12



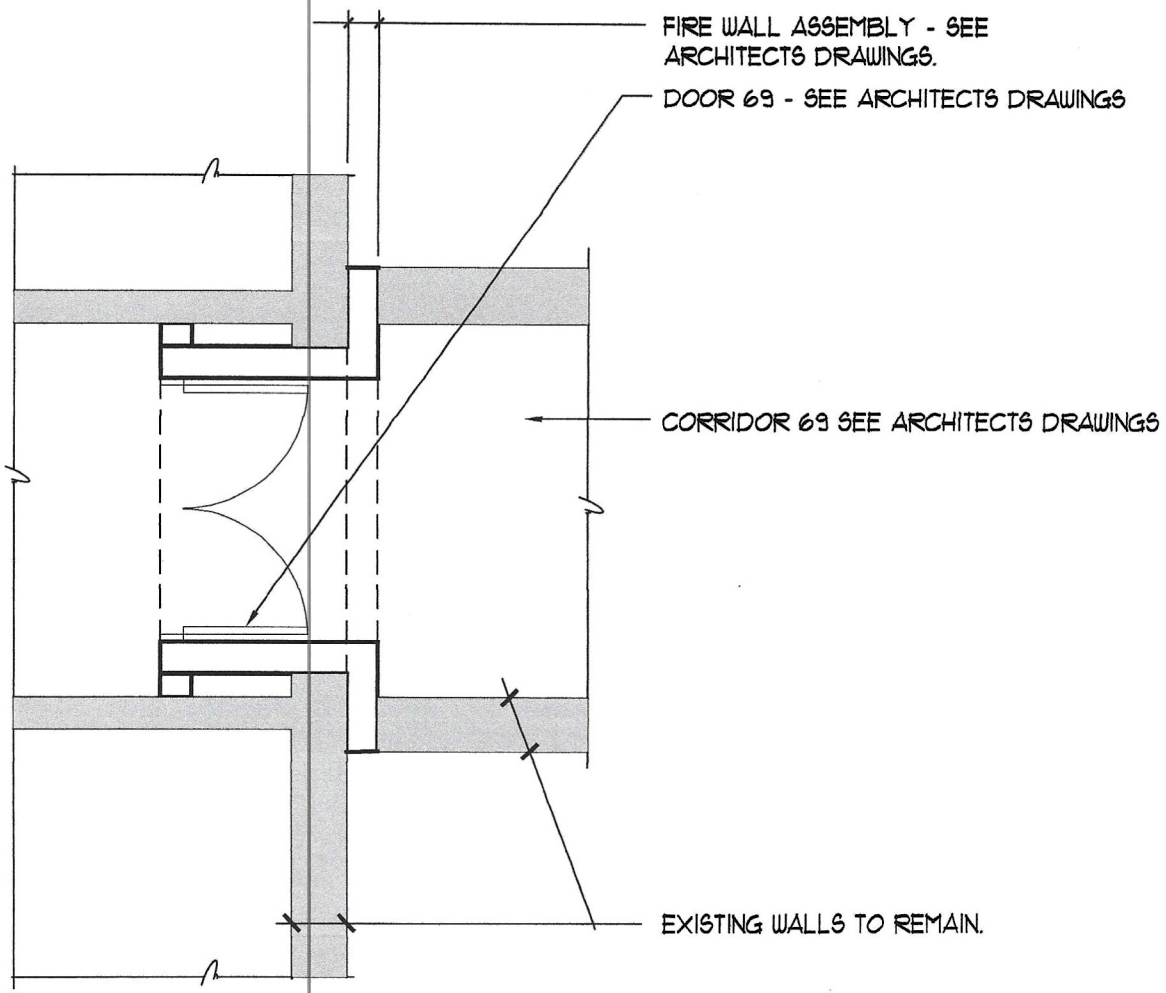
SECTION 13



DETAIL OF RAKE TO MULTI-PURPOSE ROOM ROOF
SCALE: 3/4" = 1'-0"

SCALE: 3/4" = 1'-0"

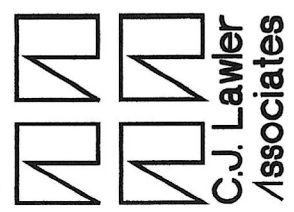
ELEMENTARY SCHOOL AT GILEAD FOR THE TOWN OF HEBRON, CONN.		DWN. R.H.G.
SECTIONS 10-13		CH'D. J.H.
OFFICE OF: CHANDLER & PALMER, ASSOC. ARCHITECTS & ENGINEERS NOEWICH, CONN.		DATE: 3 NOV. 1966 DRAWING NO. 10 OF 24

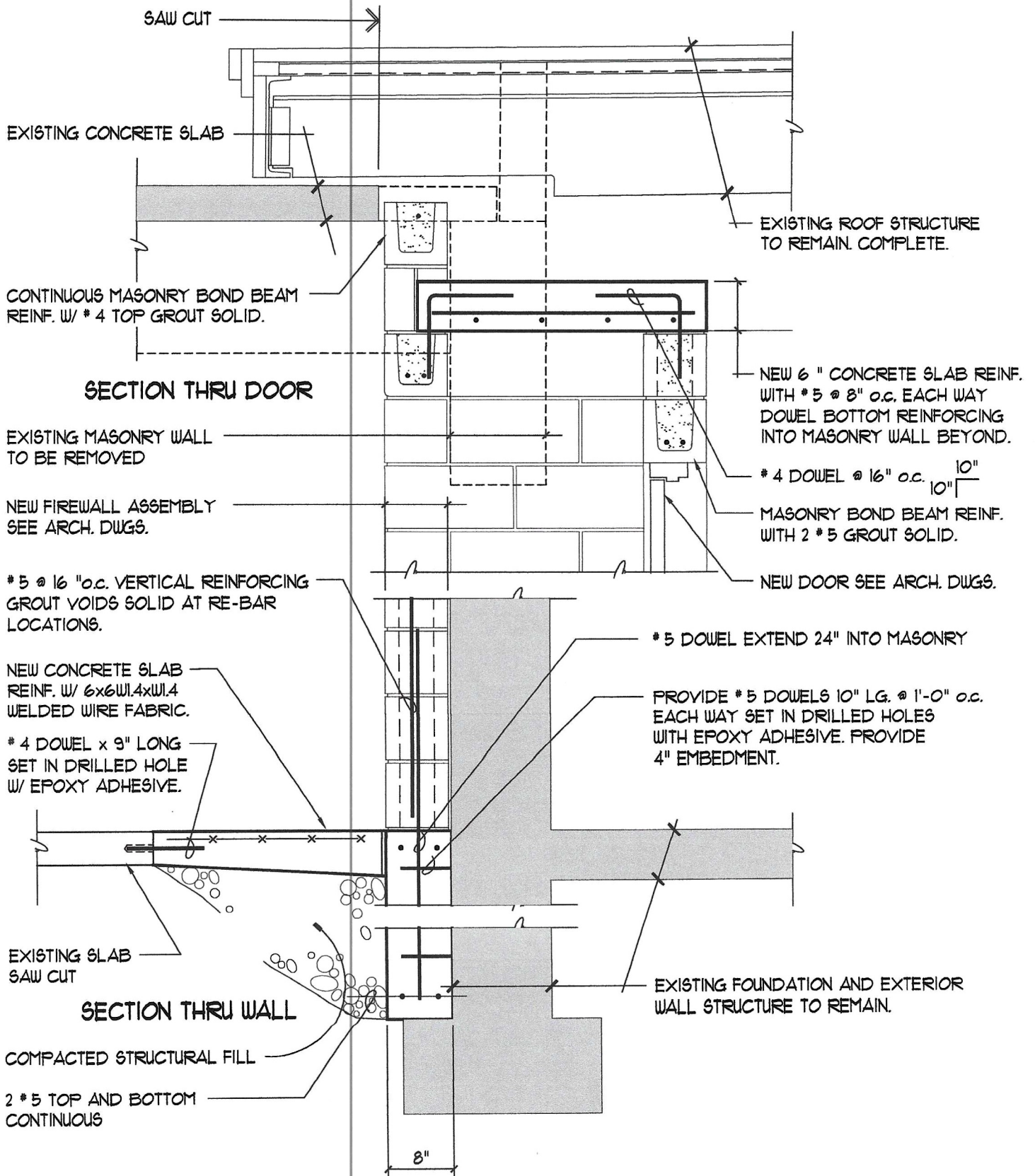


Gillead Hill Elementary School
 Hebron, Connecticut
 additions and renovations
 State Project Number: 067-030-EA

PART PLAN - FIREWALL CONST.
 CORRIDOR 69 EXIST. BLDG.
 SCALE: 1/4" = 1'-0"

SSK-01
 DATE: 5-4-99





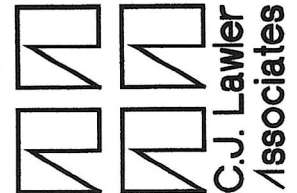
Gilead Hill Elementary School
 Hebron, Connecticut
 additions and renovations
 State Project Number: 067-030-EA

SECTION - FIREWALL CONST.
 CORRIDOR 69 EXIST. BLDG.

SCALE: 3/4" = 1'-0"

SSK-02

DATE: 5-4-99



EXISTING ROOF STRUCTURE TO REMAIN.

RELOCATE EXISTING STEEL BEAM

EXISTING STEEL ROOF DECK

PROVIDE TEMPORARY SHORING AT STEEL DECK AND EXISTING BEAM BEYOND.

5 @ 16" o.c. VERTICAL REINFORCING GROUT VOIDS SOLID AT RE-BAR LOCATIONS.

NEW CONCRETE SLAB REINF. W/ 6x6 W1.4xW1.4 WELDED WIRE FABRIC.

4 DOWEL x 9" LONG SET IN DRILLED HOLE W/ EPOXY ADHESIVE.

EXISTING SLAB SAW CUT

COMPACTED STRUCTURAL FILL

2 # 5 TOP AND BOTTOM CONTINUOUS

NEW FIREWALL ASSEMBLY SEE ARCH. DWGS.

MASONRY BOND BEAM REINF. WITH 2 # 5 GROUT SOLID.

EXISTING MASONRY WALL TO BE REMOVED

5 DOWEL EXTEND 24" INTO MASONRY

PROVIDE # 5 DOWELS 10" LG. @ 1'-0" o.c. EACH WAY SET IN DRILLED HOLES WITH EPOXY ADHESIVE. PROVIDE 4" EMBEDMENT.

EXISTING FOUNDATION AND EXTERIOR WALL STRUCTURE TO REMAIN.

8"

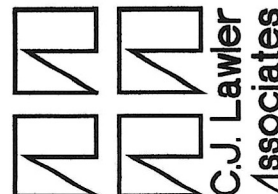
Gilead Hill Elementary School
Hebron, Connecticut
additions and renovations
State Project Number: 067-030-EA

SECTION - FIREWALL CONST.
MAIN LOBBY 01 EXIST. BLDG.

SCALE: 3/4" = 1'-0"

SSK-03

DATE: 5-4-99





INFRARED
PREDICTIVE
SURVEYS
INCORPORATED

NUCLEAR BACKSCATTER INSPECTION

Gilead Hill School

FOR:

Tremco
Mike Boudreau

DATE:

March 11, 2020

BY:

Infrared Predictive Surveys, Inc.
PO Box 224
Adamstown, MD 21710

Phone: 301-831-1978
Toll Free: 800-869-3720
Fax: 301-874-2295

SYNOPSIS

A nuclear backscatter survey of one of the roofs was performed at the Gilead Hill School, located at 580 Gilead St., Hebron, CT 06248. Visual observations have been made and the data has been documented.

INTRODUCTION

This report has been prepared for the exclusive use of Mike Boudreau at Tremco, for the specific application of the roofs at 580 Gilead St., Hebron, CT 06248.

Authorization

Authorization to perform this evaluation, analysis and nuclear backscatter roof scan was in the form of an agreement between Mike Boudreau at Tremco and Infrared Predictive Surveys Inc. (IPSI)

Scope

The scope of the roof survey included nuclear backscatter and core sampling verification. Data from this survey has been incorporated into this final report. The scope of this specific scan is to detect subsurface moisture or wet insulation.

Purpose

The purpose of this scan was to locate areas of subsurface moisture in multiple roofs.

General

Observations described in this report are based upon roof at the time of the survey and these conditions may change as the roof ages.

Infrared Predictive Surveys, Inc. warrants that these findings are published after being prepared in accordance with generally accepted practices of the construction industry. No other warranties are implied or expressed.

TEST INSTRUMENT DESCRIPTION

(Only testing that has been completed during your survey will be checked.)

Infrared Testing

The infrared roof survey locates moisture in a roof by seeking areas of increased surface temperature. Roof areas that contain moisture have higher thermal conductivity and capacitance than dry areas. During the heating season, heat from the building interior is lost at a greater rate through wet roof areas and their surface temperatures are elevated. Alternatively, during the cooling season, solar heat is absorbed into the wet area, and then retained for hours after the sun sets.

When viewed through the infrared imager, wet areas appear as brighter, lighter tones of gray in black-and-white images. Alternatively, in color images, wet areas will appear as hotter colors. A color scale appears at the side of color images. As colors progress upward, temperatures increase. In general, the higher the concentration of water, the higher the surface temperatures.

Because higher surface temperatures, and consequently hotter colors, may be produced by several phenomena not related to moisture intrusion, tests are made to verify the findings of the infrared inspection using destructive testing (core cuts) and other non-destructive tests (capacitance & nuclear). Wet areas found by infrared testing are illustrated with thermograms (photographs of infrared images).

Capacitance Verification (Hand Held Tramex Meter)

The Tramex capacitance meter is a mobile device that is used for detecting relative moisture content of roof areas. This non-destructive testing method is often combined with nuclear and thermal testing and/or moisture intrusion testing to accurately identify water entry pathways and areas of entrapped water. The Tramex moisture meter is designed for testing built up roofing and non-conductive single ply membrane. It provides instantaneous, clear indications of roof conditions and is able to detect as little as 2% excess moisture in roofing systems.

Nuclear Backscatter

A radioactive isotope consisting of Americium-241 with a Beryllium target is utilized. The measurement method relies on the thermalization (slowing) of fast neutrons by the hydrogen atoms in water. Since other Hydrogen bearing materials also thermalize neutrons, a measurement survey is necessary to establish a relative base level before an analysis can be performed.

Core Sampling

Core samples consist of cuts through the roof membrane. The sample provides an absolute test of moisture content and location. The core cut also permits the constituents of the roof system, and their condition, to be determined. Core sample may be weighed, dried and reweighed to provide a quantitative measure of moisture content.

A cut is made into the roof with a two inch (2") circumference roof sampling tool. The repaired core cuts are made with an appropriate material.

EQUIPMENT USED

- The qualitative infrared scan was conducted by a certified thermographer using a Mikron 7515 uncooled infrared imager. Lens for the Mikron was 29 degree FOV, 320 X 240 array with 7.5-13 spectral response. Temperature sensitivity is .1 degree C with accuracy of 2%.
- Inframetrics-ThermaCAM PM390. Temperature sensitivity is <0.1 degree C with a spectral response of 3.4 to 5 µm and a focal array of 256 x 256.
- Inframetrics-ThermaCAM SC1000. Temperature sensitivity is <0.1 degree C and a focal array of 256 x 256.
- The qualitative infrared scan was conducted by a certified thermographer using a Mikron 7600 Pro. Lens was a 21-degree FOV lens, 320 X 240 focal plane array with 7.5-13 spectral response. Temperature sensitivity is .1 degree C with accuracy of 2%.
- Troxler 3216 Nuclear Backscatter Moisture Gauge
- Delmhorst (pin type) Moisture Meter

FIELD SURVEY METHODS

Visual Observations

Visual observations were made by Infrared Predictive Surveys, Inc. (IPSI) personnel. These observations included roofing structure, roof drainage, roof surface conditions and other accessory items.

Photographic Documentation

Photographs were made by IPSI personnel. While these photographs were not intended to provide a complete record of the roof, they do provide a visual description of typical roof conditions or selected problem areas.

PROJECT IDENTIFICATION

Project Location

580 Gilead St., Hebron, CT 06248

NUCLEAR BACKSCATTER ROOF SCAN

Date(s) of Scan: March 6, 2020

This scan was performed in conjunction with the visual roof survey conducted the same day. The purpose of this scan was to locate areas of suspected subsurface moisture and determine the extent of the moisture migration.

Weather Conditions

March 6, 2020—Maximum daytime roof temperature: 50°F.

FINDINGS AND RESULTS

Notes

- Roof designations were made by IPSI personnel for reporting purposes only.
- A 10' x 10' grid pattern was used for all roof sections tested.

Roof A

- Three (3) suspected wet areas were found on this roof section.
 - Three (3) core cuts were taken on this roof section.
 - #CCA1 (Dry)
 - PVC
 - 1.5" Polyisocyanurate (0%)
 - 1.5" Polyisocyanurate (0%)
 - Metal Deck
 - #CCA2-Wet area #A1. (Wet)
 - PVC
 - 1.5" Polyisocyanurate (Top: 60%; Bottom: 75%)
 - 1.5" Polyisocyanurate (0%)
 - Metal Deck
 - #CCA3-Wet area #A1. (Wet)
 - PVC
 - 1.5" Polyisocyanurate (Top: 25%; Bottom: 2.7%)
 - 1.5" Polyisocyanurate (0%)
 - Metal Deck

Roof B

- No suspected wet areas were found on this roof section.
 - One (1) core cut was taken on this roof section.
 - #CCB1 (Dry)
 - PVC
 - 1.5" Polyisocyanurate (0%)
 - 1.5" Polyisocyanurate (0%)
 - Metal Deck

Roof C

- One (1) suspected wet area was found on this roof section.

Roof D

- No suspected wet areas were found on this roof section.

Roof E

- One (1) suspected wet area was found on this roof section.



If additional information is required, please do not hesitate to contact me. Thank you again for giving us the opportunity to provide our services.

Sincerely,

Joseph Fitzpatrick
Infrared Predictive Surveys, Inc.
PO Box 224
Adamstown, MD 21710

Phone: 301-831-1978
Toll-Free: 800-869-3720
Fax: 301-874-2295
E-mail: joe@infraredpsi.com
Website: www.InfraredPSI.com

APPENDIX

- Digital Images
- CAD Drawing



School-looking East



Roof A-North side, looking West



Roof A-South side, looking West



Roof A-Center, looking West



Roof A-Center, looking East



Roof A-Wet area A-1, looking East



Roof A-Core cut #CC2 at wet area #A1 (Wet)



Roof A-Core cut #CC2 repaired, looking East



Roof A-Core cut #CC3 at wet area #A1 (Wet)



Roof A-Core cut #CC3 repaired, looking East



Roof A-Core cut #CC1 (Dry)



Roof A-Core cut #CC1 repaired, looking East



Roof A-Suspected wet area A-2, looking South



Roof A-Suspected wet area A-3, center, looking North



Roof A-Suspected wet area A-3, center, looking South



Roof B-Looking North



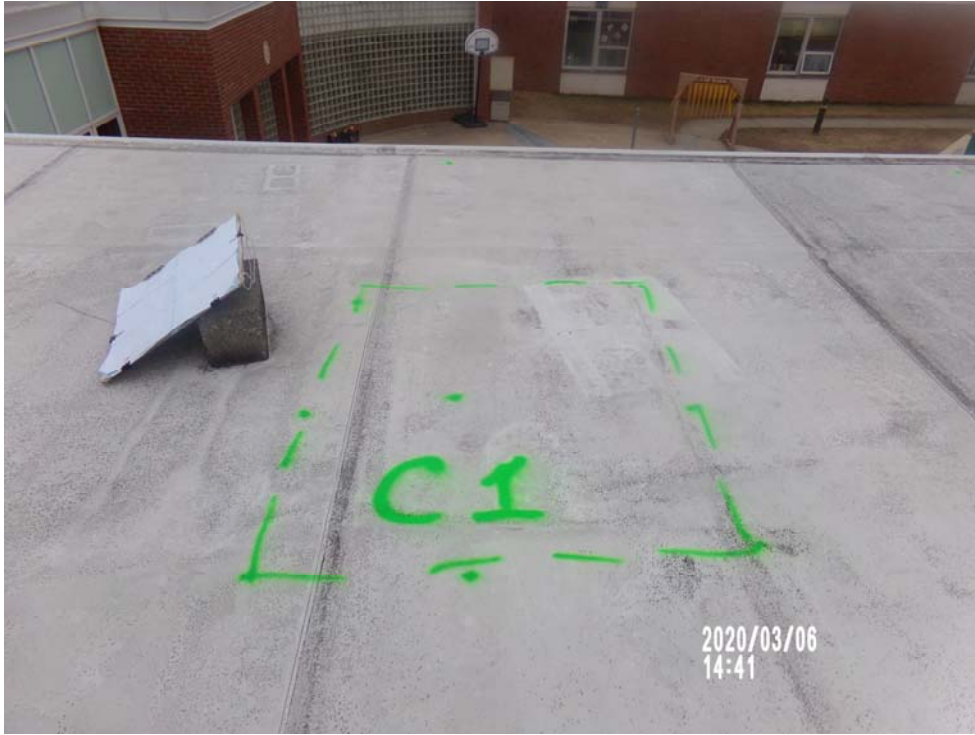
Roof B-Core cut #CCB1 (Dry)



Roof B-Core cut #CCB1 repaired, looking East



Roof C-Looking North



Roof C-Suspected wet area C-1, looking South



Roof D-Looking South



Roof E-Looking South



Roof E-Suspected wet area E-1, West side, looking North



Roof E-Suspected wet area E-1, East side, looking North



'A' TOTAL SUSPECTED WET SQ FT = 983

AREA#	SIZE	SQ FT	NOTES
A1	16 x 13	208	CCA2, CCA3
A2	10 x 10	100	-
A3	9 x 75	675	-

'C' TOTAL SUSPECTED WET SQ FT = 40

AREA#	SIZE	SQ FT	NOTES
C1	5 x 8	40	-

'E' TOTAL SUSPECTED WET SQ FT = 50

AREA#	SIZE	SQ FT	NOTES
E1	10 x 5	50	-

- SCAN NOTES:
- GRAY ROOF INDICATES AREA NOT SCANNED
 - SUSPECTED MOISTURE AREAS SHADED RED
 - NUCLEAR READINGS TAKEN ON A ' X ' GRID U.N.O.
 - CC# = CORE CUT NUMBER, P# = PROBE NUMBER
 - DATE OF SCAN : 03.06.20

ROOF SCAN OVERVIEW

GILEAD HILL SCHOOL
580 GILEAD ST.
HEBRON, CT 06248

BUILDING ROOF - MOISTURE SCAN

	INFRARED PREDICTIVE SURVEYS INCORPORATED	DRAWN: AJR	DATE DRAWN: 03/16/20	REV: 0	SHEET NO. 845A
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"2000 Wing" & Activity Room

- New Roof in 2000
- Sarnafil
- 15 year warranty

"1970 Wing"

- Replaced in 2011
- Johns Mansville
- 30 year warranty

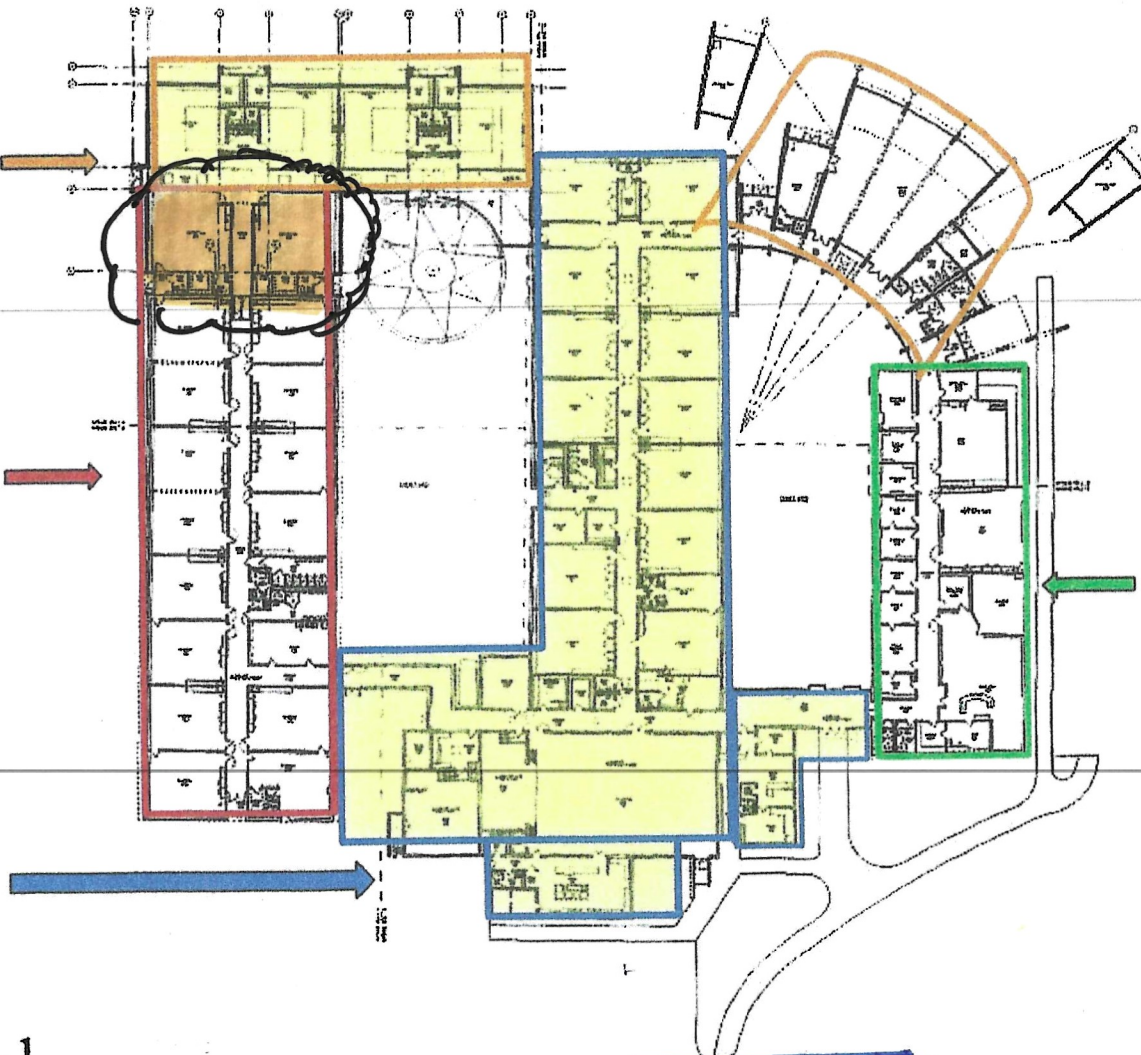
"1968 Wing"

- Replaced in 2001
- Sarnafil
- 15 year warranty

2021 Current Proposed Areas of Restoration

"1988 Wing"

- Replaced in 2010
- Carlisle
- 30 year warranty



Gilead Hill School

**GILEAD HILL ELEMENTARY SCHOOL
CORRECTION OF GRAPHIC
DEPICTION OF SCOPE OF
ROOF REPLACEMENT
ADDENDUM NO. 1-MARCH 18, 2024**

The Hebron Public Building Committee
 On Behalf of
 The Town of Hebron
 And
 Hebron Board of Education

GILEAD HILL ELEMENTARY SCHOOL
 RE-ROOFING PROJECT
 PRE-SUBMISSION CONFERENCE
 MARCH 12, 2024
 10 AM

SIGN-IN SHEET

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AL JACUNSKI	JACUNSKI HUMES	860-828-9221	ALJACUNSKI@JACUNSKIARCHITECTS.NE
Denise LaRosa	SP+A	203-230-9007 x240	dlarosa@silverpottrickelli.com
BOB ROACH	FRUAR ARCH.	860.250.5034	rwr@friar.com
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Arjun Seetharam	Lehrig Architects	(974) 401-2477	aseetharam@lehrigarchitects.com
UTKARSH PATIL	RUSSELL & DAWSON INC.	860-289-1100	utkarsh.patil@sdaep.com