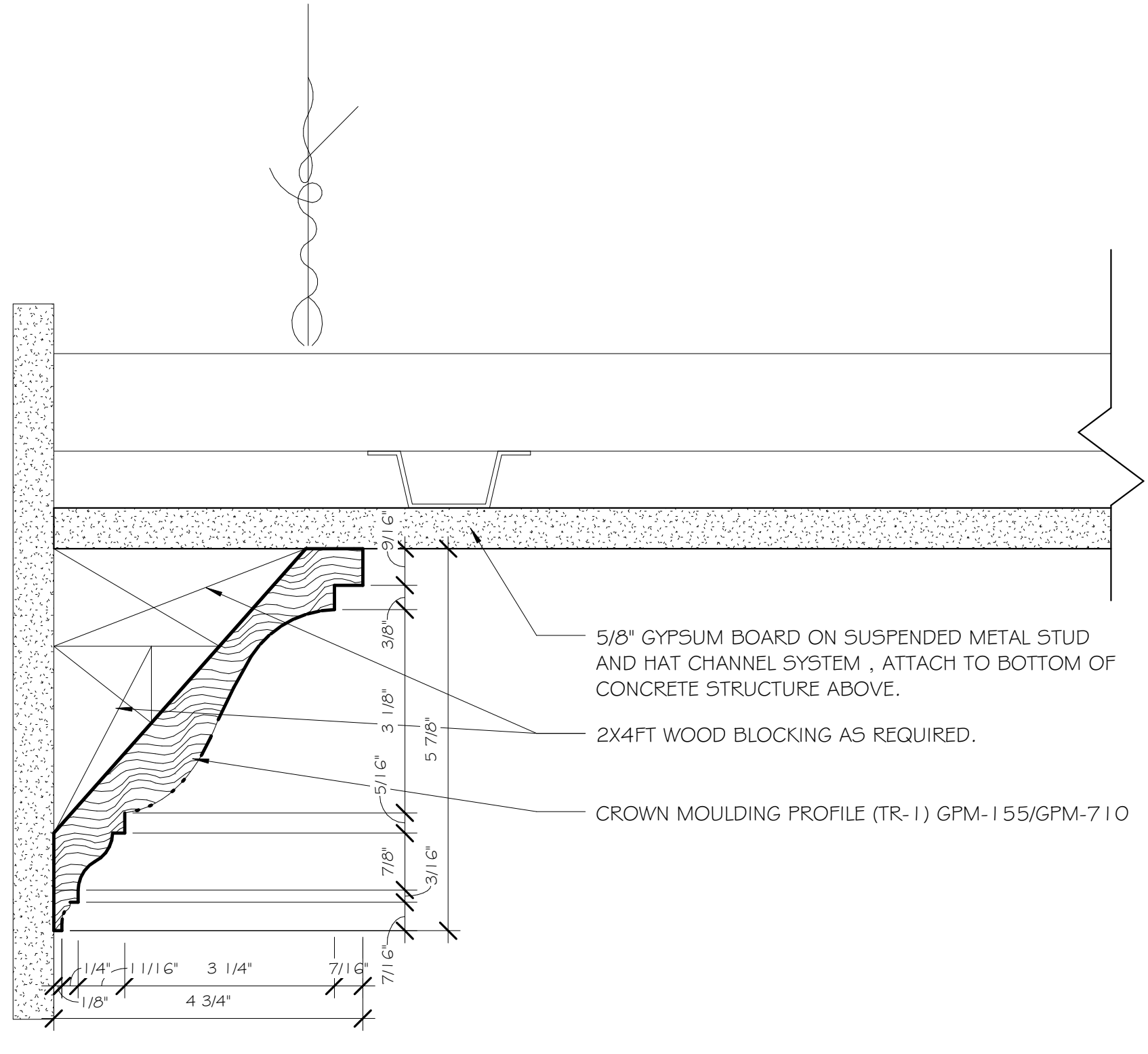


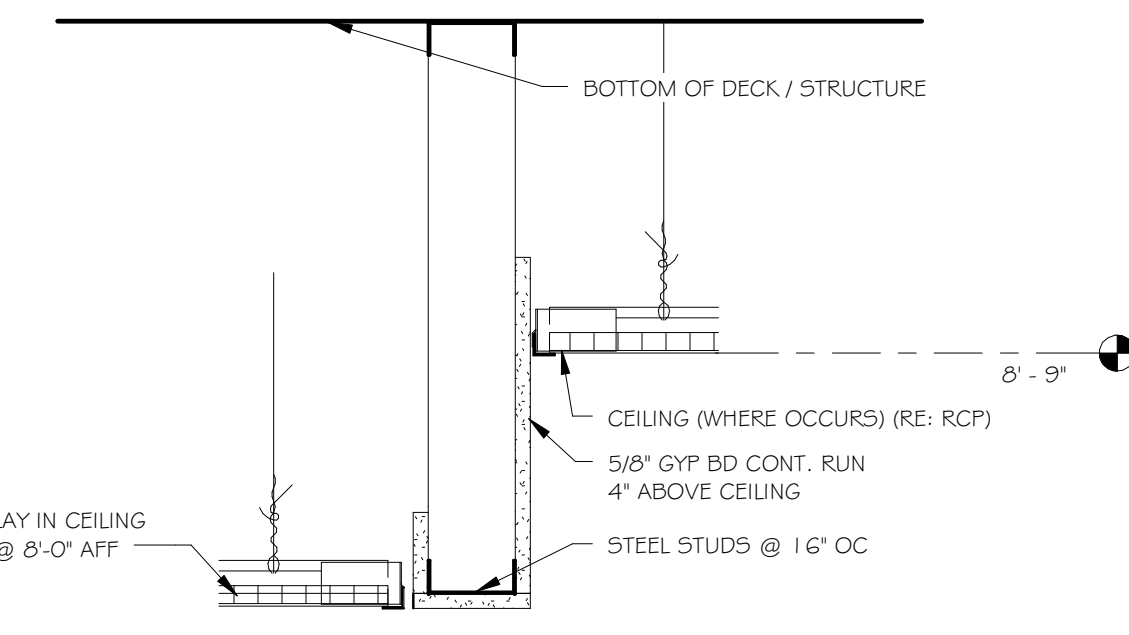
ARMSTRONG CEILING SEISMIC NOTES

SEISMIC CEILING BRACING

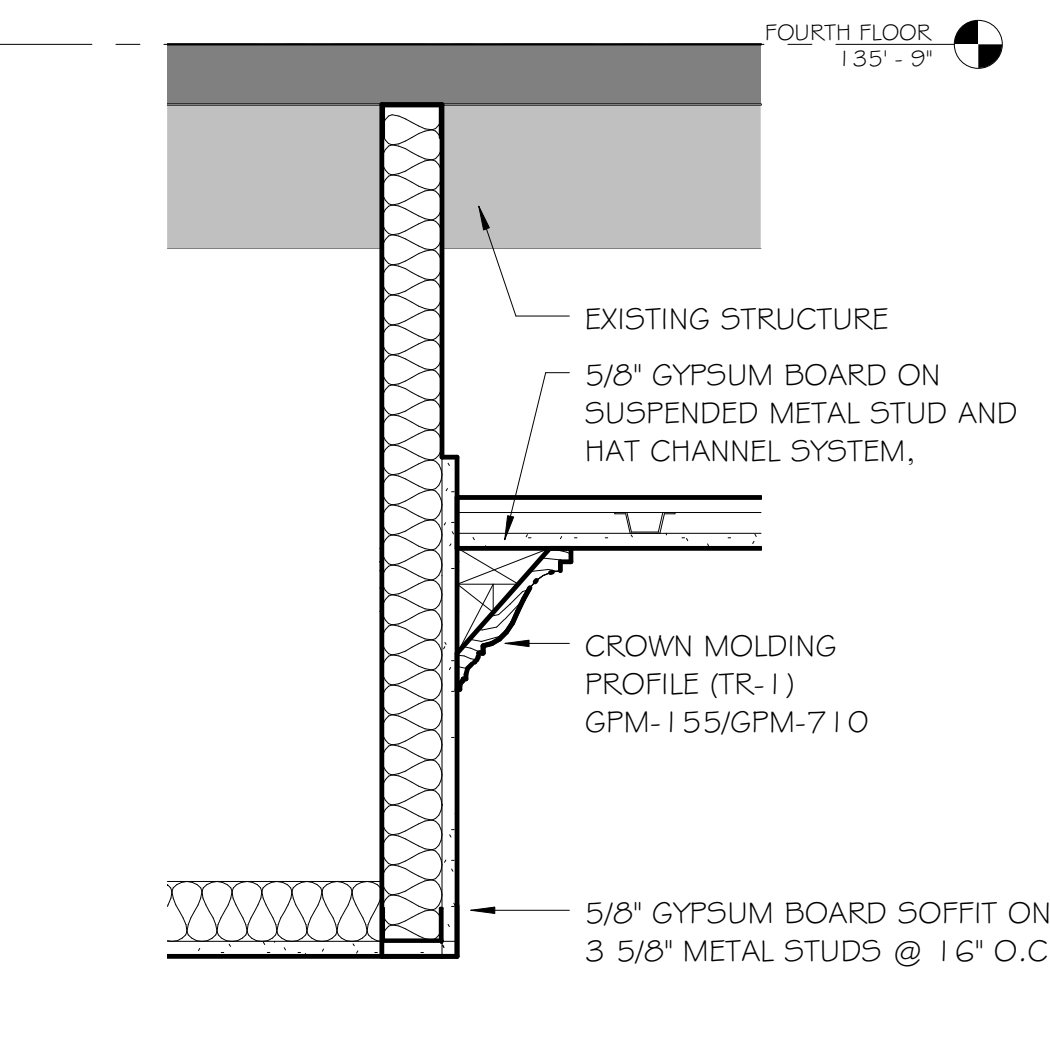
- CODES: ASCE 7-02 SECTION 9.6.2 & 4. CISCIA 2004
- THESE NOTES AND DETAILS ARE PROVIDED AS GUIDELINES FOR REFERENCE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN APPROVAL OF EACH BRACING METHOD USED ON THE PROJECT FROM THE AUTHORITY HAVING JURISDICTION.
- RATED CEILING ARE REQUIRED TO BE BRACED FOR SEISMIC GENERATED LATERAL FORCES PER THESE NOTES, DETAILS, AND AS FURTHER DESCRIBED IN THE DESIGN OF THE REFERENCED RATED CEILING OR ASSEMBLY (UL DIRECTORY OF TESTED SYSTEMS).
- SUSPENDED CEILING WITH AN AREA GREATER THAN 1.44 SF SHALL BE BRACED FOR SEISMIC GENERATED LATERAL FORCES.
- IBC SEISMIC CATEGORY D, E AND F (CISCIA ZONES 3 & 4) AND SUSPENDED CEILING THAT WEIGH MORE THAN 2.5 psf AN ICC TESTED (SEE NOTE 17) SYSTEM SHALL BE USED.
- IBC CATEGORY C: PROVIDE A 7/8" PERIMETER CLOSURE ANGLE AND A 3/8" CLEAR SPACE FROM GRID RUNNERS AND THE PERIMETER WALLS.
- IBC CATEGORIES D, E & F: PROVIDE A 7/8" PERIMETER ANGLE AND A 3/4" CLEAR SPACE FROM ALL RUNNERS AND THE PERIMETER WALLS.
- IBC CATEGORIES D, E & F: IN EACH ORTHOGONAL HORIZONTAL DIRECTION, ONE END OF THE CEILING GRID SHALL BE ATTACHED TO A "BERC2" CLIP (SEE NOTE 17). THE OTHER END IN EACH HORIZONTAL DIRECTION SHALL HAVE A 3/4" CLEARANCE FROM THE WALL AND SHALL BE FREE TO SLIDE ON A "BERC2" CLIP (SEE NOTE 17).
- HANGER WIRE SHALL MEET THE FOLLOWING CRITERIA:
 - 2 ga. MIN. WIRE
 - WIRE SHALL HANG VERTICAL NOT MORE THAN ONE IN SIX OUT OF PLUMB
 - VERTICAL HANGER (WIRE) SHALL BE SPACED AT 4'-0" o.c. EACH WAY.
 - HANGER SHALL BE ATTACHED TO THE MAIN RUNNER.
 - HANGER SHALL BE SUSPENDED FROM THE BUILDING STRUCTURE.
 - DO NOT BEND HANGERS AROUND INTERSTITIAL EQUIPMENT, DUCTS AND/OR CONDUIT.
 - ANY FRINGE OR CONNECTION DEVICE TO THE BUILDING STRUCTURE SHALL BE CAPABLE OF SUPPORTING NOT LESS THAN 100 lbs.
 - AT EACH WIRE TIED CONNECTION THE WIRE TIE SHALL HAVE AT LEAST THREE TURNS.
- IBC CATEGORIES D, E & F: SUPPORT ENDS OF MAIN AND CROSS RUNNERS WITH A VERTICAL HANGER WITHIN 2" MAX. FROM THE PERIMETER WALL. ALL LAY IN LIGHT FIXTURES AND DOWN LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING GRID WITH AN ATTACHMENT CAPABLE OF SUPPORTING 100 PERCENT OF THE WEIGHT OF THE LIGHT FIXTURE. IN ADDITION TO THE GRID ATTACHMENT LIGHT FIXTURES SHALL BE SECURED TO THE BUILDING STRUCTURE AS FOLLOWS:
 - ONE WIRE HANGER TO STR. FOR FIXTURES WEIGHING 10 lbs OR LESS. WIRE MAY BE SLACK.
 - TWO WIRE HANGERS TO STR. FOR FIXTURES WEIGHING 10 TO 56 lbs. WIRE MAY BE SLACK.
 - LIGHT FIXTURES WEIGHING MORE THAN 56 lbs. SHALL BE DIRECTLY SUPPORTED BY THE BUILDING STRUCTURE BY FOUR WIRE HANGERS OR OTHER APPROVED HANGERS.
- HVAC AIR TERMINALS WEIGHING LESS THAN 20 lbs. SHALL BE POSITIVELY ATTACHED TO THE CEILING GRID WITH AN ATTACHMENT CAPABLE OF SUPPORTING 100 PERCENT OF THE WEIGHT OF THE DEVICE. IN ADDITION TO THE GRID ATTACHMENT HVAC AIR TERMINALS WEIGHING MORE THAN 20 lbs. SHALL BE SECURED TO THE BUILDING STRUCTURE BY FOUR WIRE HANGERS TO STR. FOR AIR TERMINALS WEIGHING MORE THAN 20 lbs BUT LESS THAN 56 lbs. THE WIRES MAY BE SLACK.
- AIR TERMINALS WEIGHING MORE THAN 56 lbs. SHALL BE DIRECTLY SUPPORTED BY THE BUILDING STRUCTURE BY FOUR WIRE HANGERS OR OTHER APPROVED HANGERS.
- IBC CATEGORIES D, E & F: CEILING AREAS EXCEEDING 1,000 SF HORIZONTAL RESTRAINT (LATERAL FORCE BRACING) OF THE CEILING TO THE STRUCTURAL SYSTEM SHALL BE PROVIDED.
- ALL WALL PARTITIONS GREATER THAN 6'-0" IN HEIGHT SHALL BE INDEPENDENTLY BRACED TO THE BUILDING STRUCTURE AT 6'-0" MAX. o.c. WHERE PERPENDICULAR WALLS DO NOT OCCUR AT 12'-0" OR LESS. WALL PARTITIONS SHALL NOT BE BRACED BY THE SUSPENDED CEILING. SPRINKLER HEADS AND OTHER PENETRATION THROUGH A SUSPENDED CEILING THAT IS NOT HORIZONTALLY RESTRAINED SHALL HAVE AN OVERSIZED RING, SLEEVE OR ADAPTER THAT ALLOWS 1" HORIZONTAL MOVEMENT IN ALL DIRECTIONS.
- FOR CEILING AREAS EXCEEDING 2500 SF, A SEISMIC SEPARATION JOINT OR FULL HEIGHT PARTITION THAT BREAKS THE CEILING AREA INTO AREAS NOT EXCEEDING 2500 SF SHALL BE PROVIDED UNLESS STRUCTURAL ANALYSES ARE PERFORMED FOR THE CEILING BRACING SYSTEM. EACH AREA OF THE DIVIDED CEILING SHALL CONFORM TO ALL APPLICABLE SEISMIC BRACING REQUIREMENTS.
- THE ARMSTRONG SEISMIC RX SUSPENSION SYSTEM SHALL COMPLY WITH THE ARMSTRONG SEISMIC RX SUSPENSION SYSTEM DESCRIBED IN ICC EVALUATION SERVICE REPORT ESR-1309. THE MATERIAL AND INSTALLATION SHALL NOT VARY FROM THE MATERIAL AND INSTALLATION IDENTIFIED IN THE REPORT. LIGHT FIXTURES AND AIR TERMINALS SHALL BE SUPPORTED AS DESCRIBED IN NOTES 11 AND 12. NO ADDITIONAL HORIZONTAL STABILIZING STRUTS OR HORIZONTAL RESTRAINT IS REQUIRED FOR THE SEISMIC RX SUSPENSION SYSTEM. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN APPROVAL FROM THE AUTHORITY HAVING JURISDICTION FOR THE ARMSTRONG SEISMIC RX SUSPENSION SYSTEM PRIOR TO ORDERING MATERIALS.



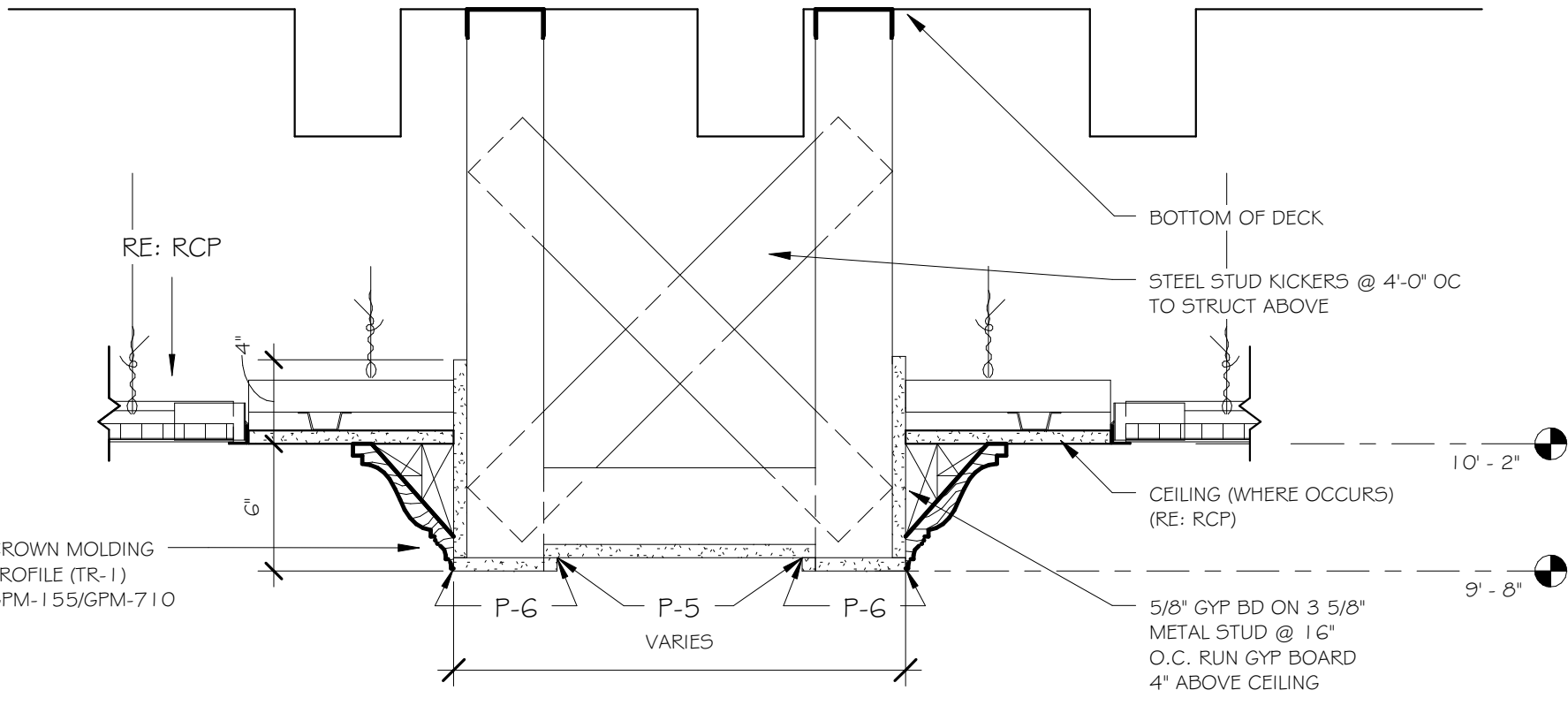
1 WOOD TRIM - GFM-155/GFM-710 (TR-1)
A450 1 1/2" = 1'-0"



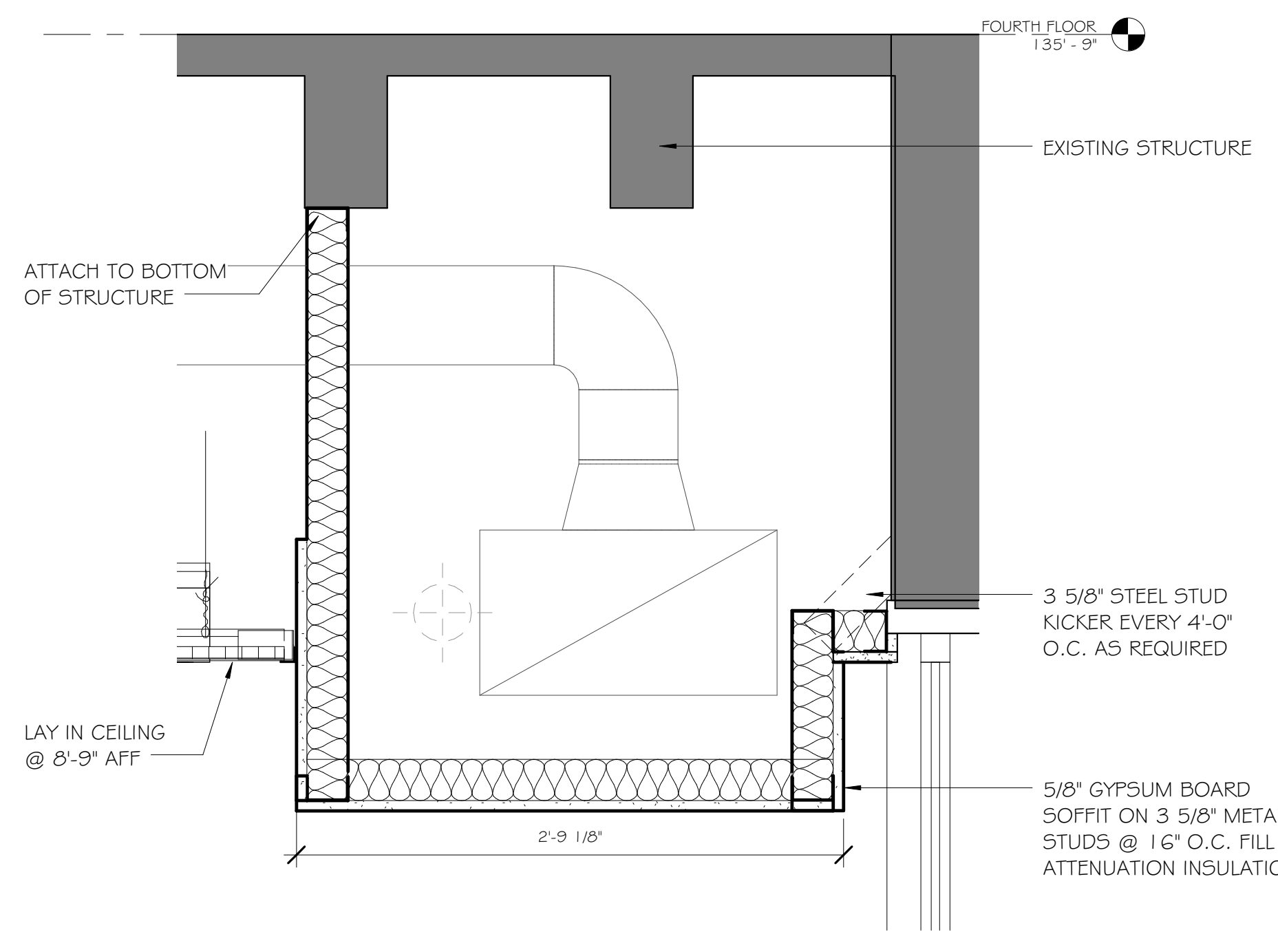
2 BULKHEAD - WALL SOFFIT
A450 1 1/2" = 1'-0"



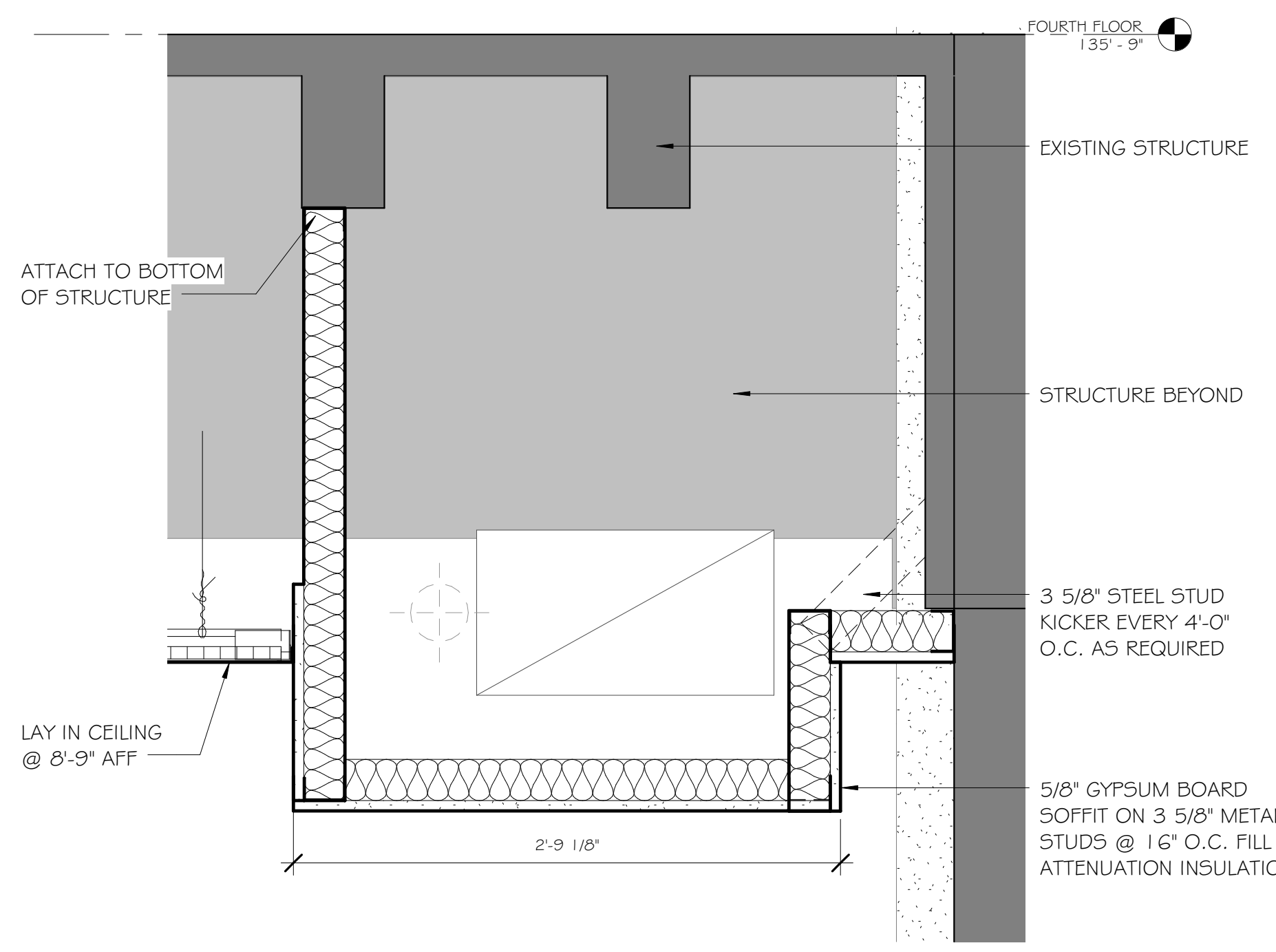
3 BULKHEAD @ CHAPEL ENTRANCE
A450 1 1/2" = 1'-0"



4 BULKHEAD - @ ALTER
A450 1 1/2" = 1'-0"



5 SOFFIT - MECHANICAL/ PLUMBING (TYP.)
A450 1 1/2" = 1'-0"

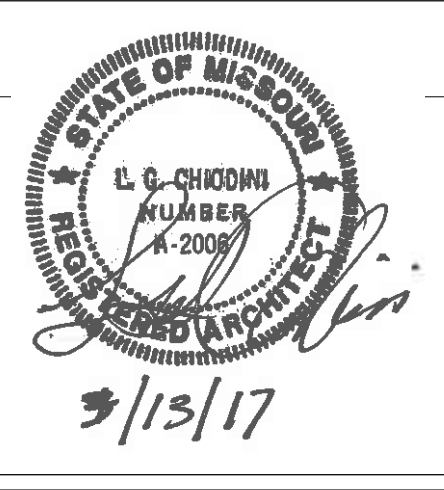


6 SOFFIT - MECHANICAL/ PLUMBING B (TYP.)
A450 1 1/2" = 1'-0"

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FINAL SUBMITTAL
FOR CONSTRUCTION



ARCHITECT:
Chiodini
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Drawing Title
RCP DETAILS

Approved: Project Director
Approver

Project Title
VA HEALTH CARE SYSTEM

Location
VAS 438-16-104 BLDG. 5 CHAPEL
SIOUX FALLS, SD 57105

Date
2017.03.13

Checked
RLK

Drawn
C.J.N.

Project Number
438-16-104 2016.052

Building Number
5

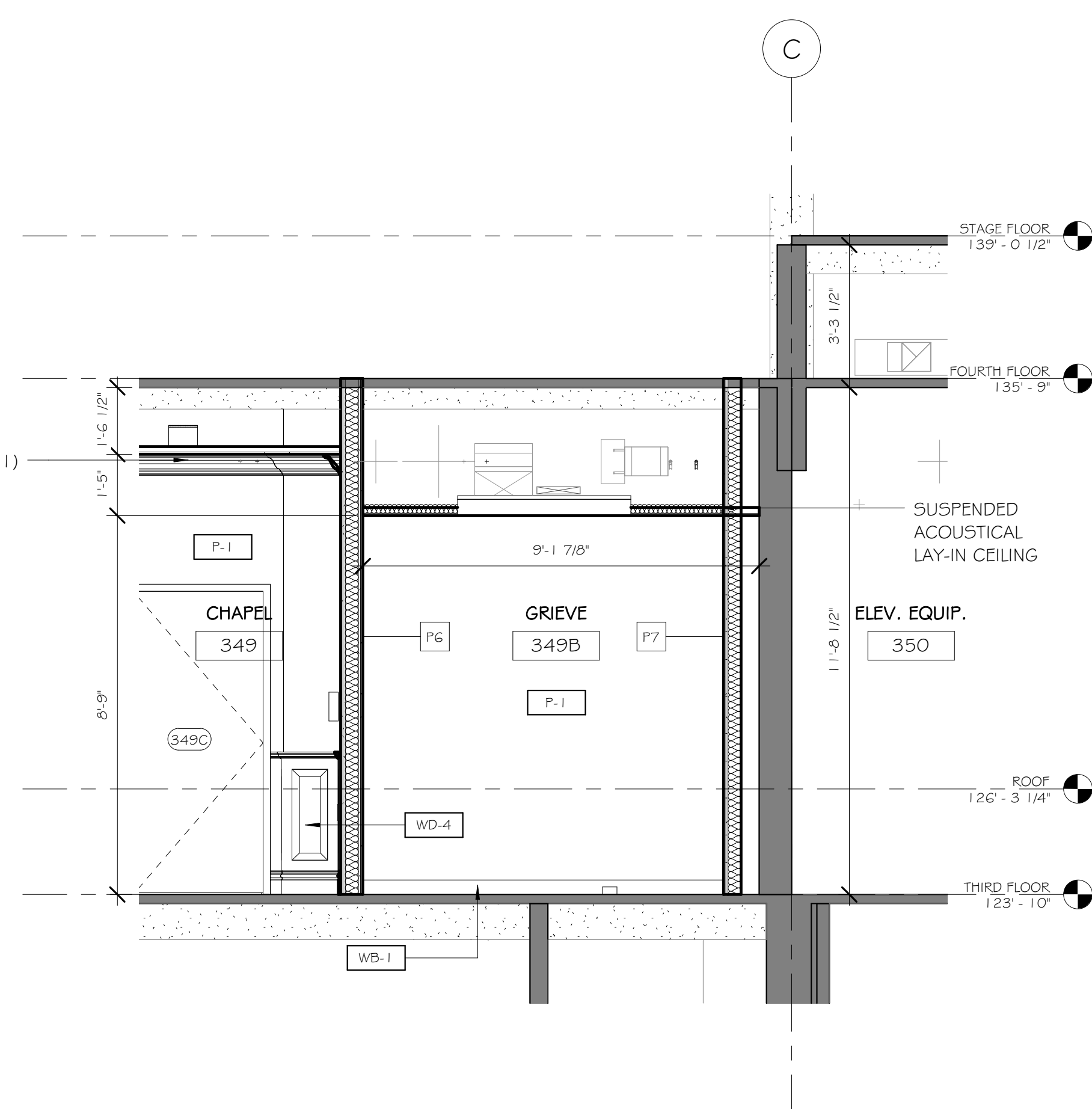
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A450

Owner
Department of Veterans Affairs

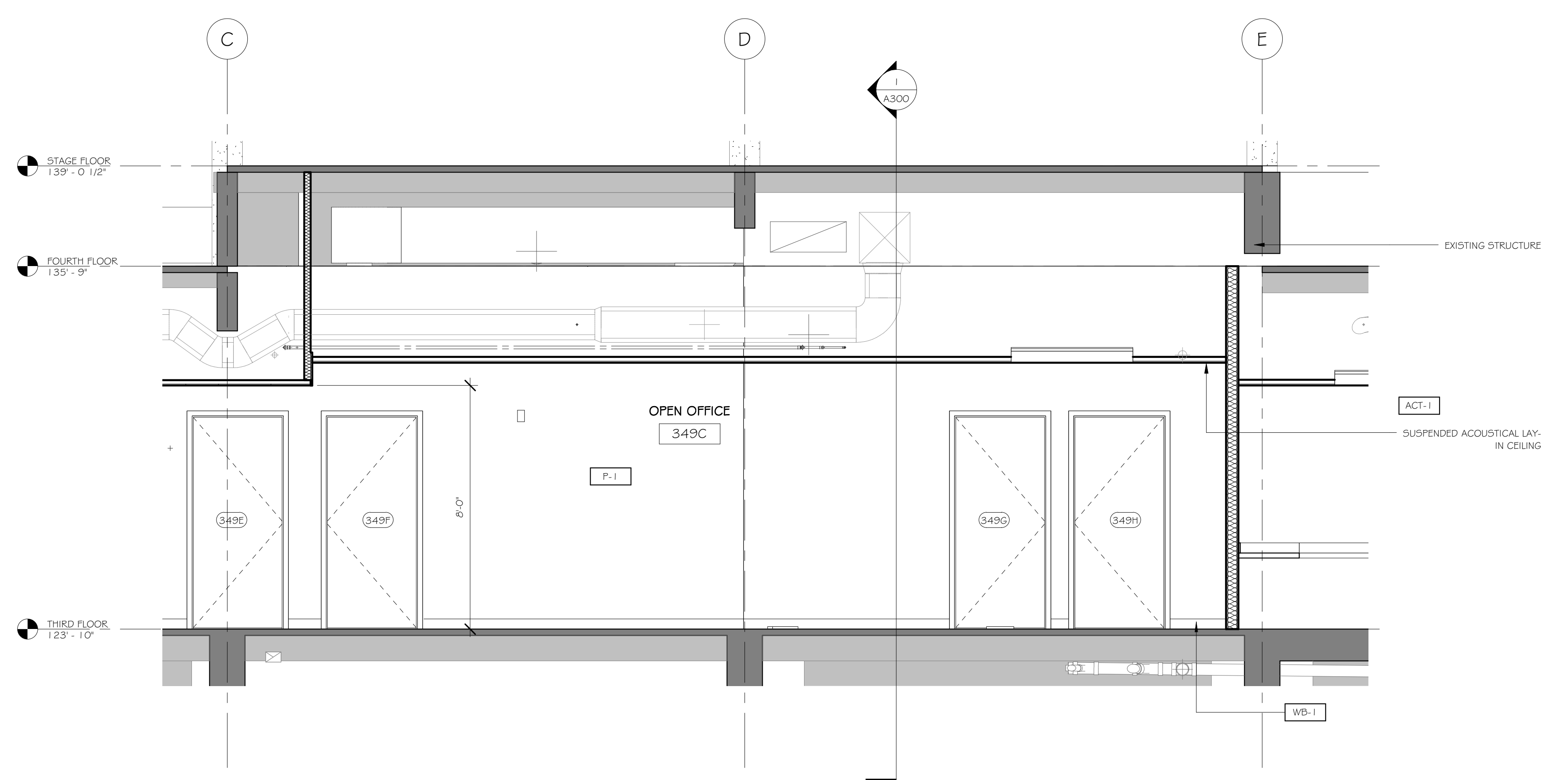
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three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one sixteenth inch = one foot

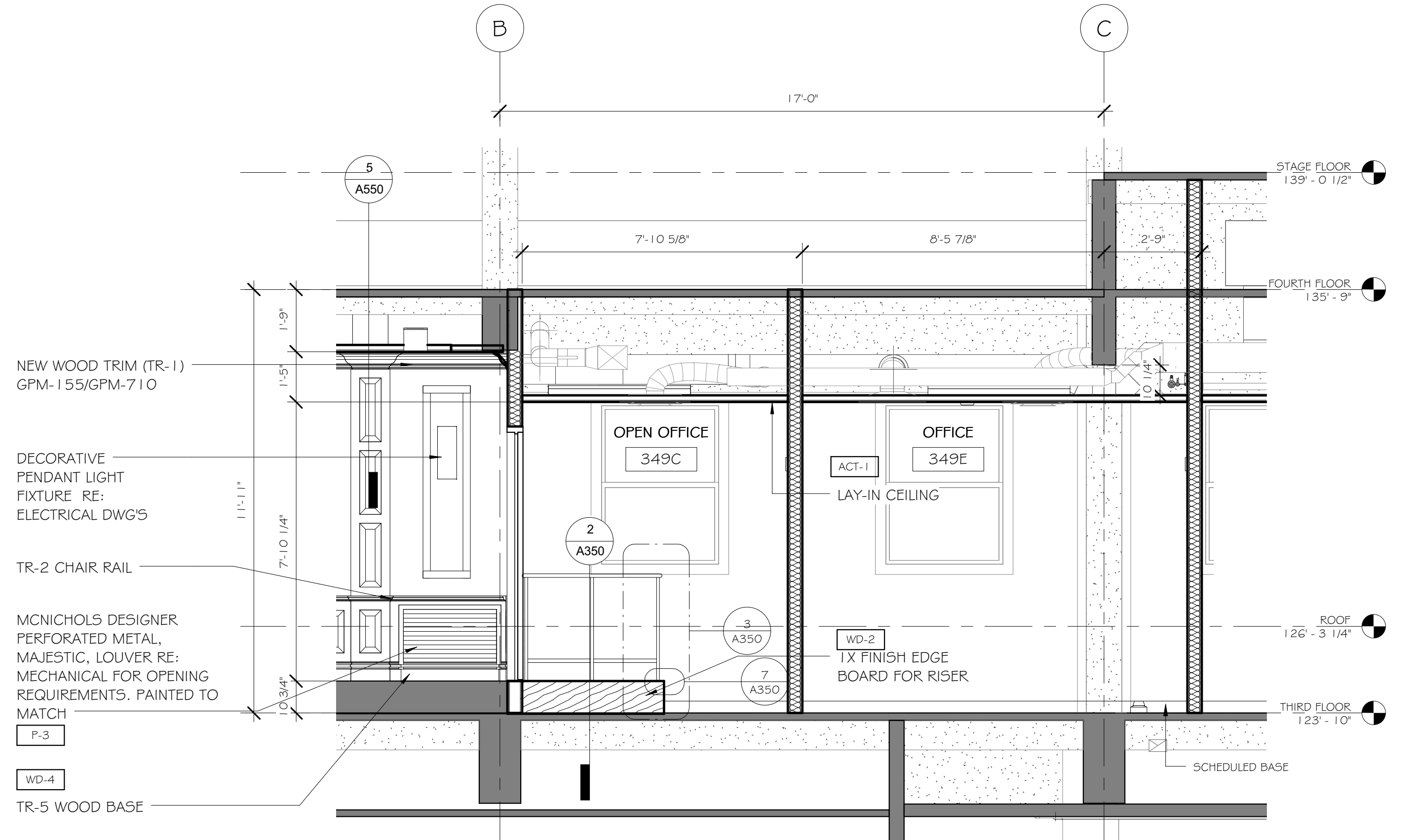
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2 SECTION - GRIEVING ROOM
 A500 3/8" = 1'-0"



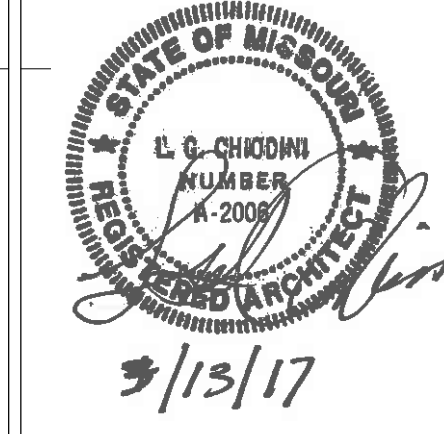
1 SECTION - STAGE
 A500 3/8" = 1'-0"




3 SECTION - OPEN OFFICE
 A500 3/8" = 1'-0"

Revisions:	Date


ENGINEERS/CONSULTANTS:
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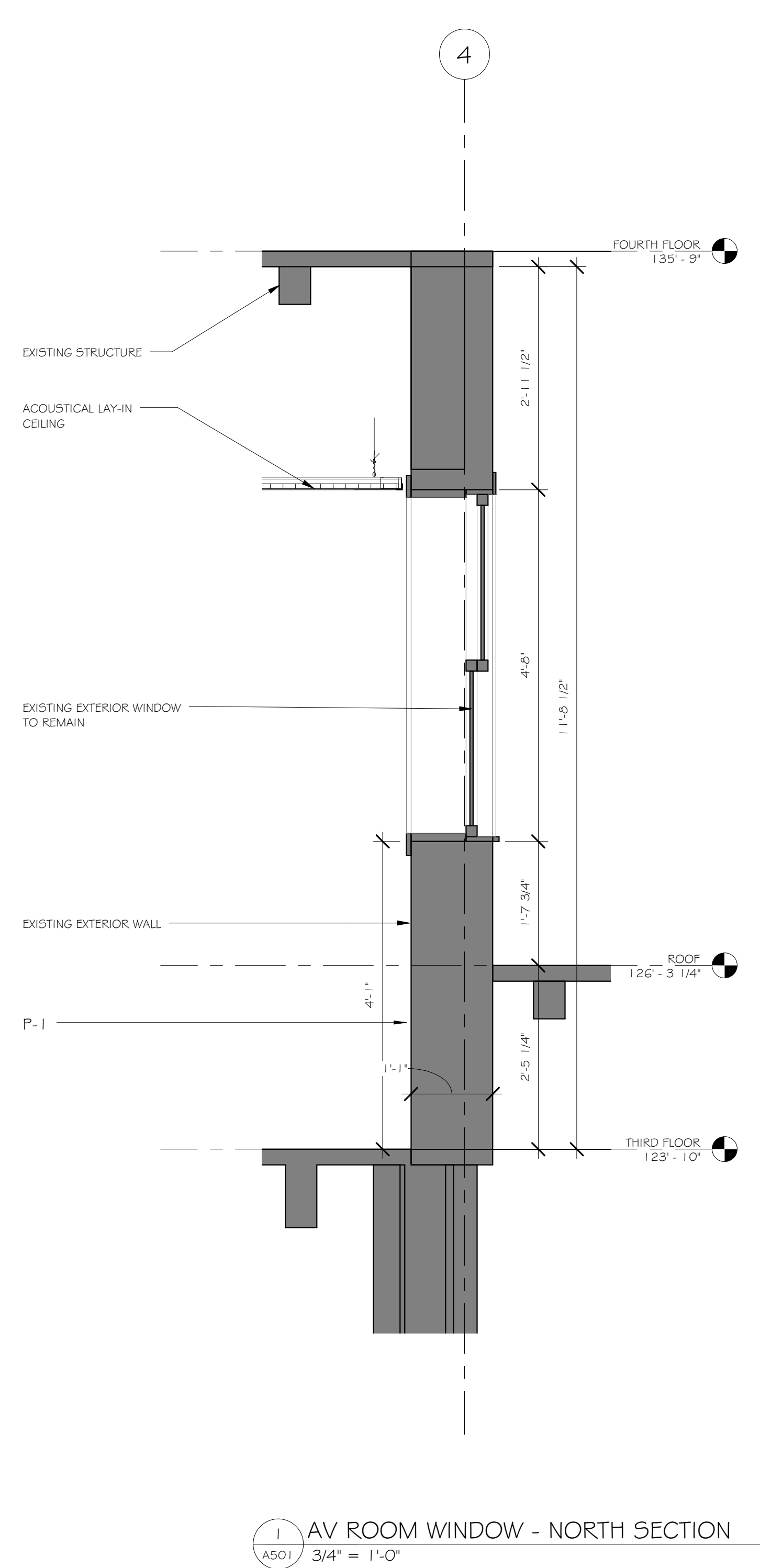
Drawing Title
WALL SECTIONS
 Approved: Project Director
 Approver

Project Title
VA HEALTH CARE SYSTEM
 Location
 VAS 438-16-104 BLDG. 5 CHAPEL
 SIOUX FALLS, SD 57105
 Date
 2017.03.13
 Checked
 RLK
 Drawn
 C.J.N.

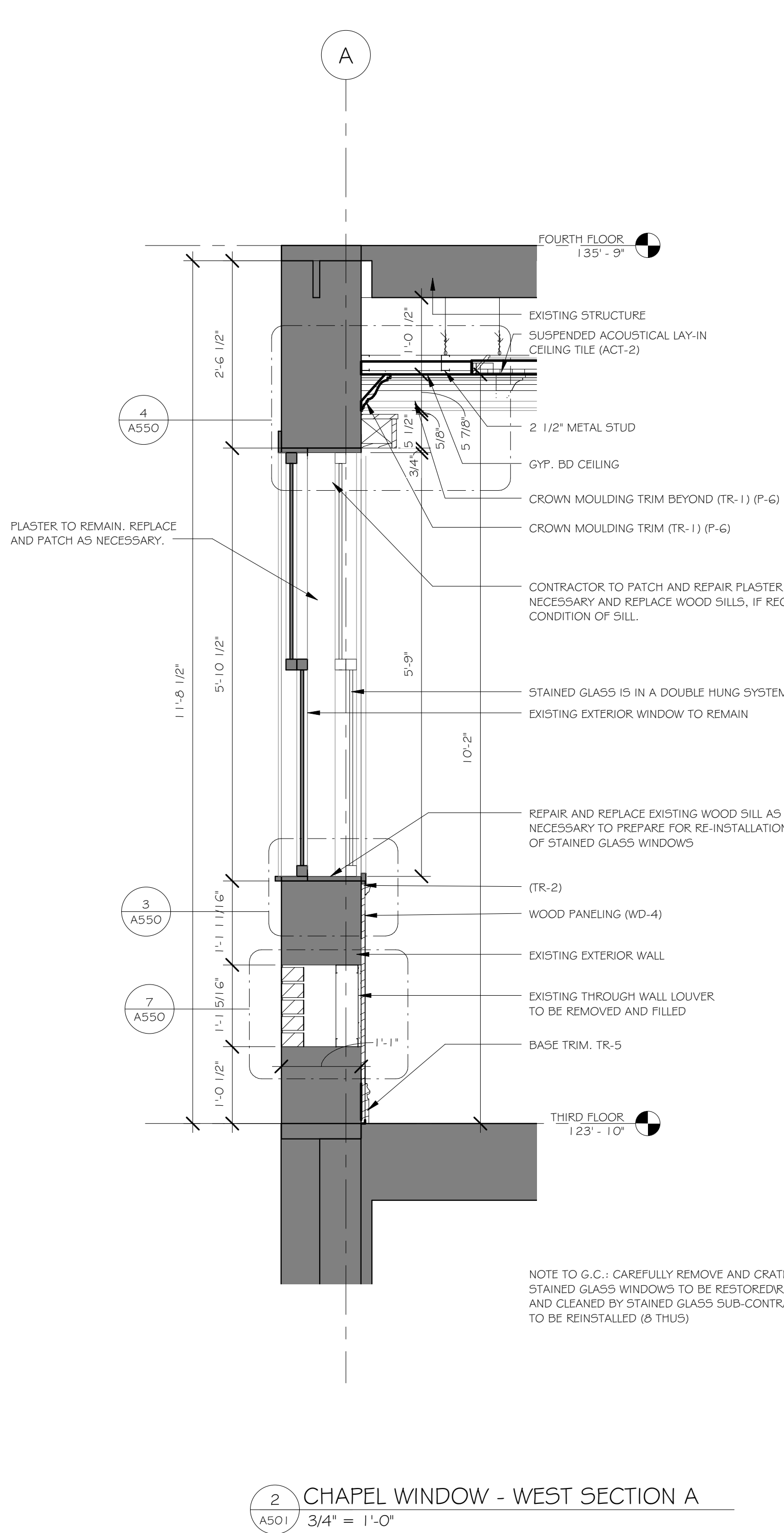
Project Number
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 Building Number
 5
 Drawing Number
A500
 Owner


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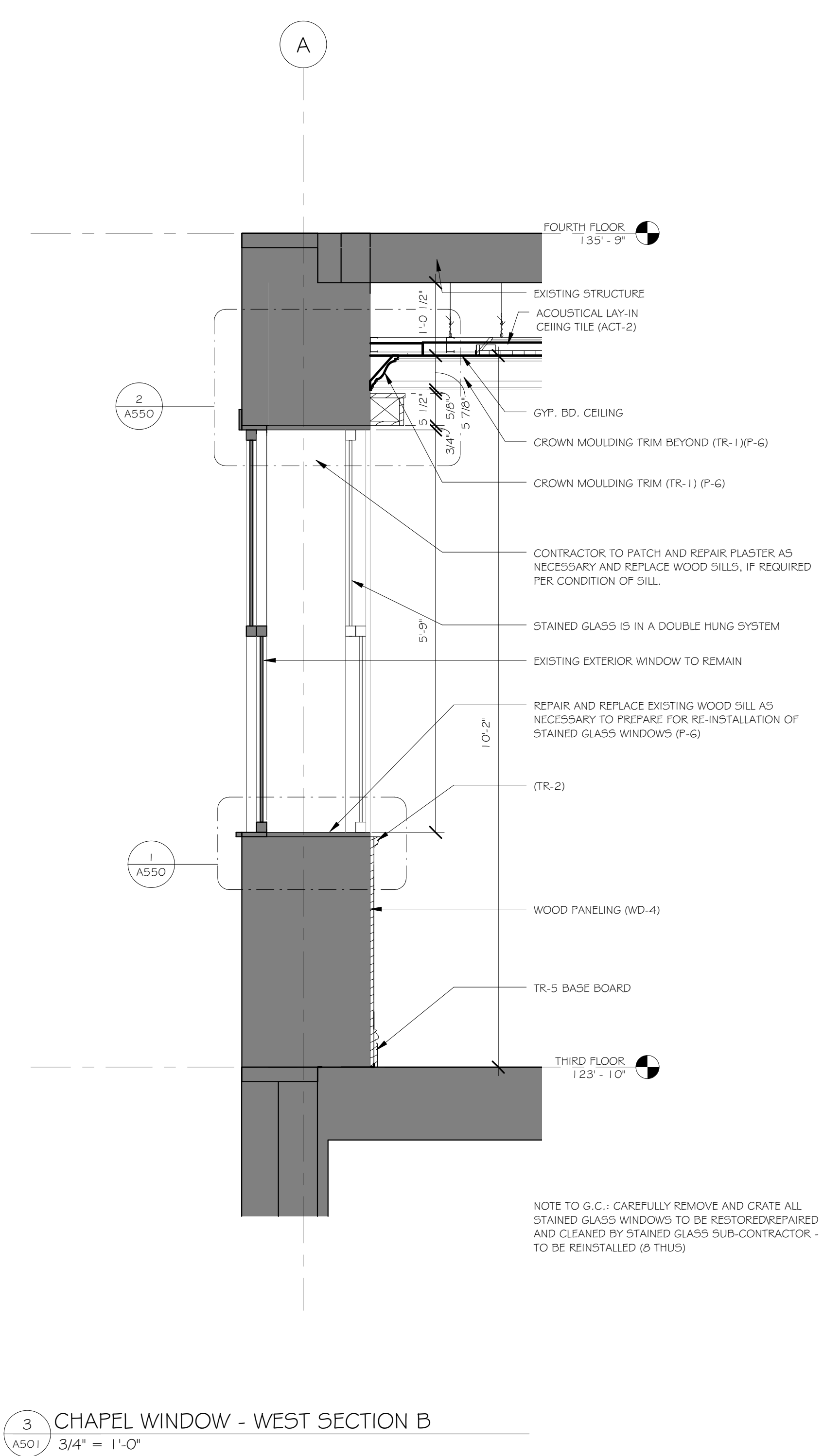
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1 AV ROOM WINDOW - NORTH SECTION
AS01 / 3/4" = 1'-0"



2 CHAPEL WINDOW - WEST SECTION A
AS01 / 3/4" = 1'-0"



3 CHAPEL WINDOW - WEST SECTION B
AS01 / 3/4" = 1'-0"

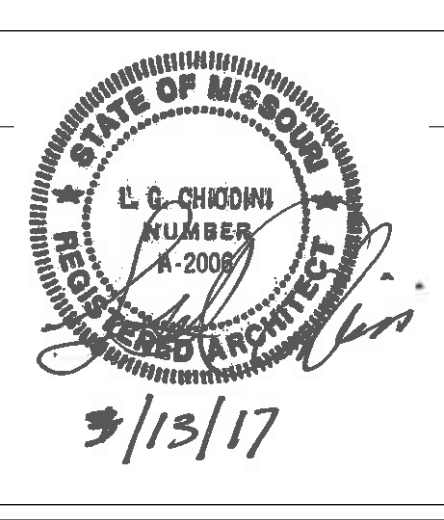
Scale: 3/4" = 1'-0"

Revisions: Date

ENGINEERS/CONSULTANTS:

WOOLPERT, INC. 343 FOUNTAINS PARKWAY SUITE 100 FAIRVIEW HEIGHTS, IL 62208 314-436-0865 314-436-0884 fax	SCI ENGINEERING, INC 130 POINT WEST BLVD. ST. CHARLES, MO 63301 636-949-8200 636-949-8269 fax
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Drawing Title
WALL SECTIONS

Approved: Project Director
Approver

Project Title
VA HEALTH CARE SYSTEM

Project Number
438-16-104 2016.052

Building Number
5

Drawing Number
A501

Location
VAS 438-16-104 BLDG. 5 CHAPEL
SIOUX FALLS, SD 57105

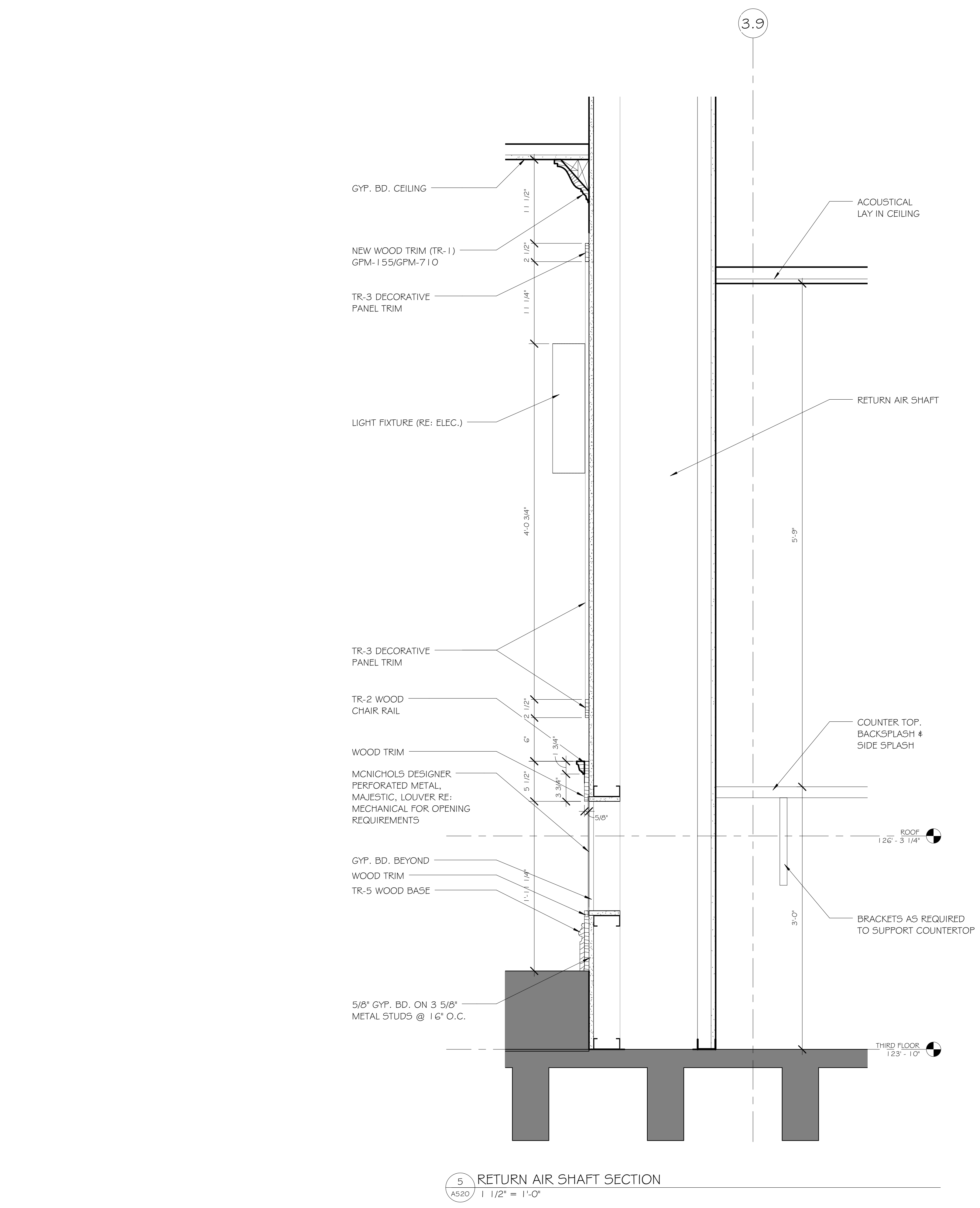
Date
2017.03.13

Checked
RLK

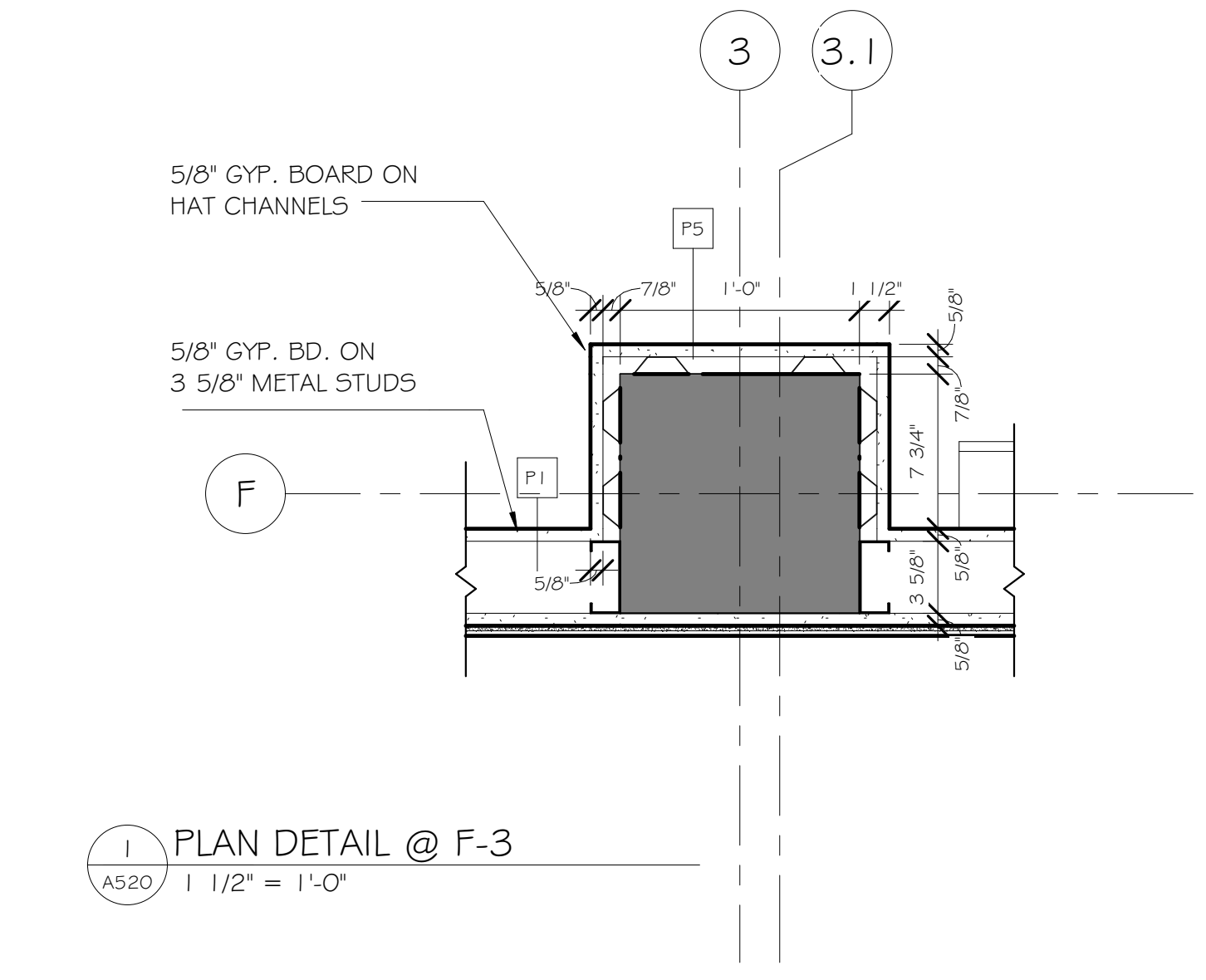
Drawn
C.J.N.

Owner

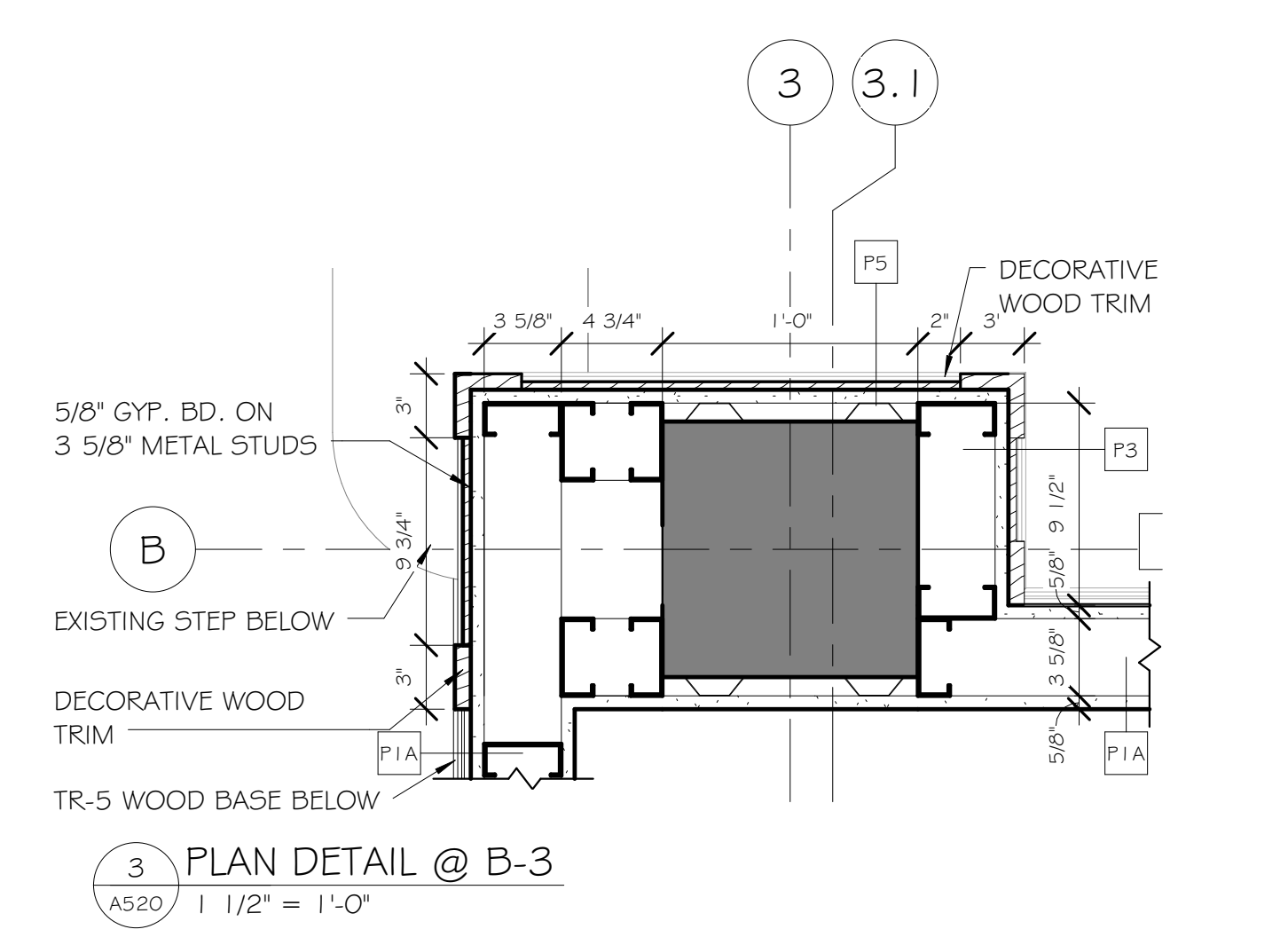
16
12
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three eighths inch = one foot
one quarter inch = one foot
one half inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
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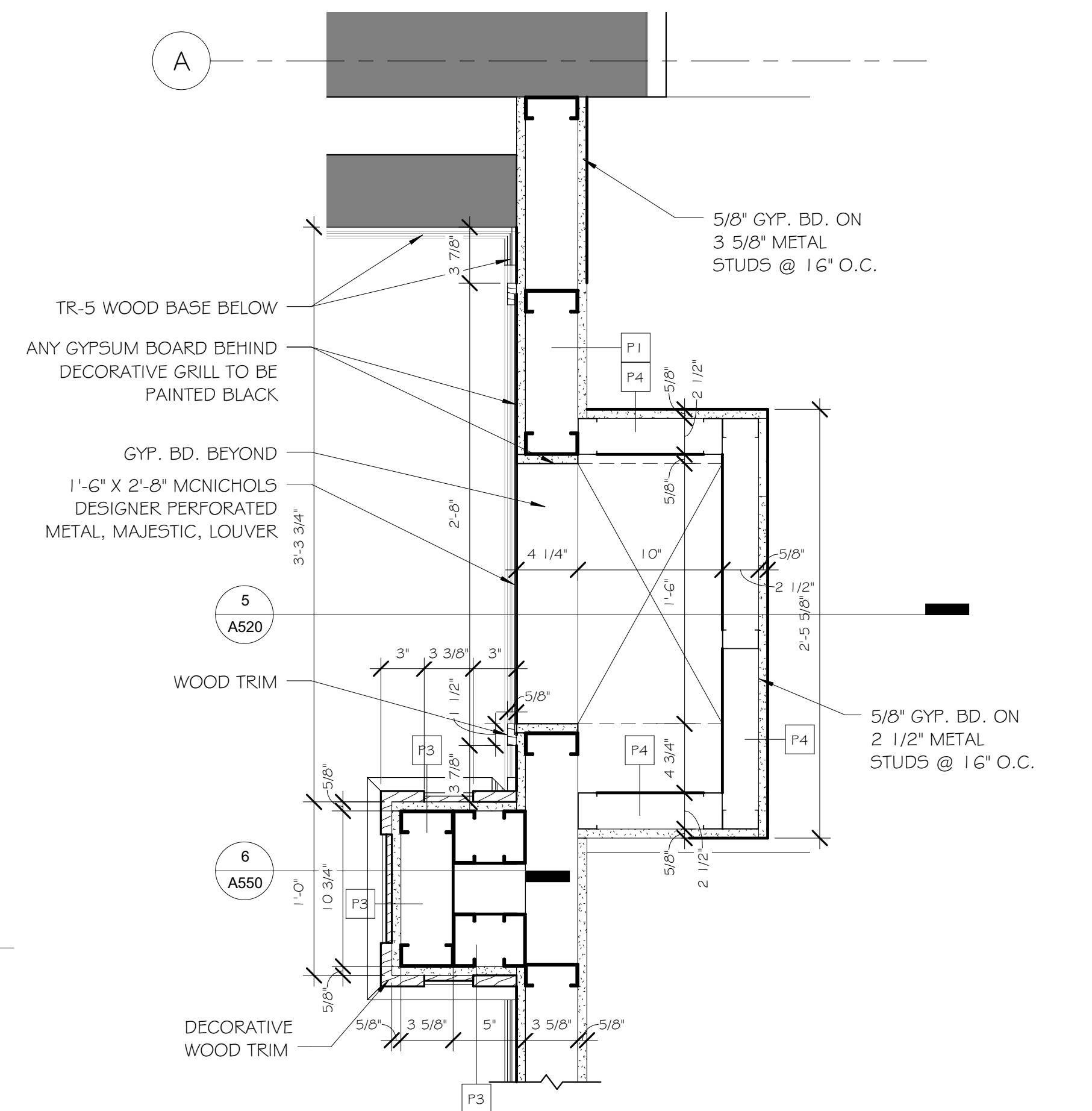
5 RETURN AIR SHAFT SECTION
A520 1 1/2" = 1'-0"



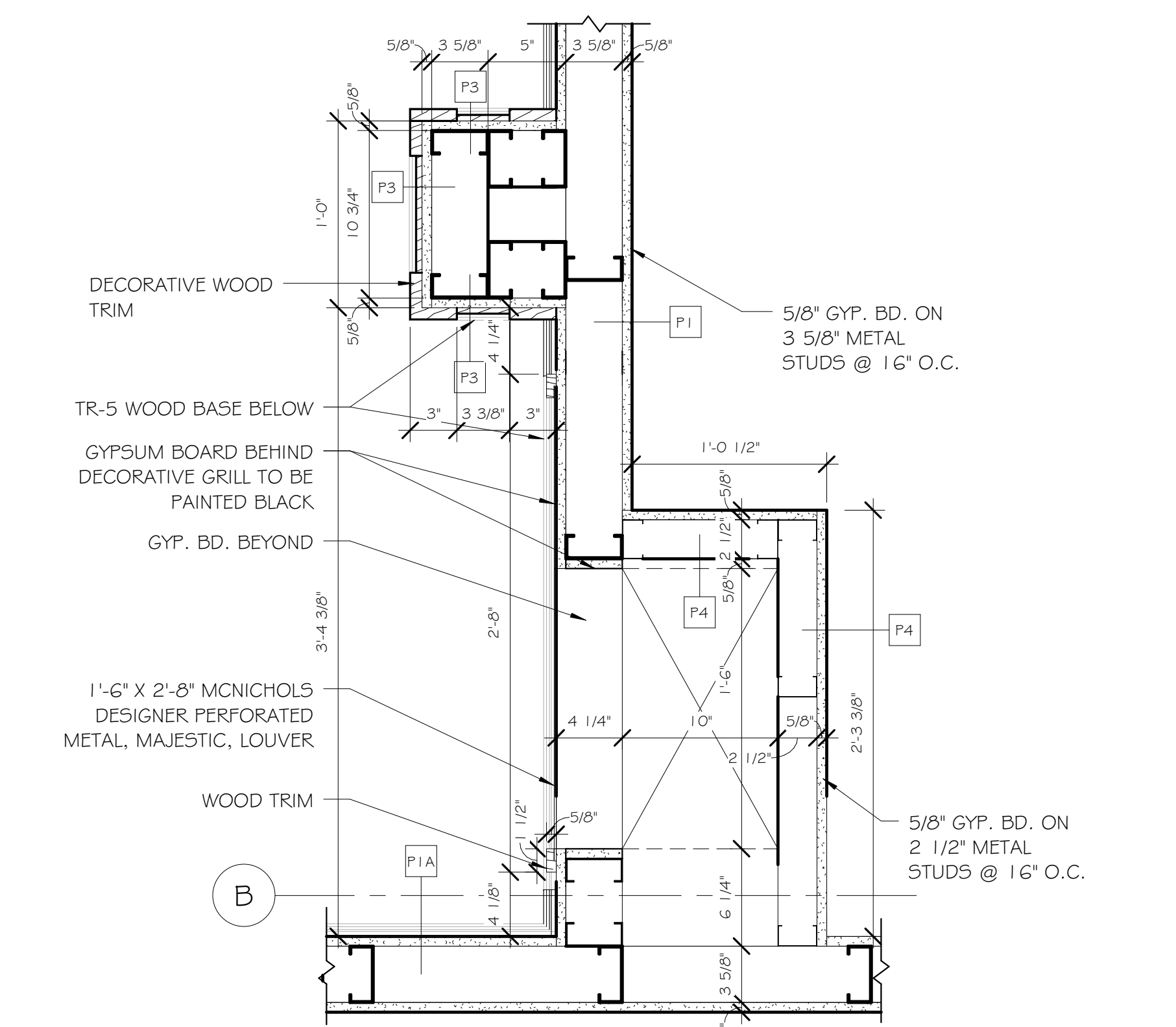
1 PLAN DETAIL @ F-3
A520 1 1/2" = 1'-0"



3 PLAN DETAIL @ B-3
A520 1 1/2" = 1'-0"



2 ENLARGED SHAFT DETAIL AT CHAPEL SCREEN
A520 1 1/2" = 1'-0"



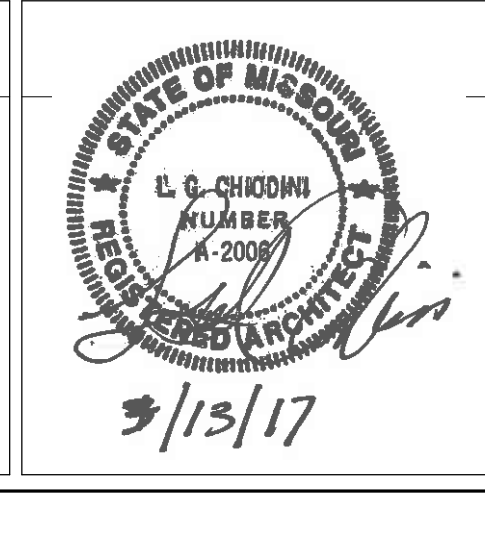
4 PLAN DETAIL @ CHAPEL SCREEN
A520 1 1/2" = 1'-0"

Scale: 1 1/2" = 1'-0"

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Drawing Title
ENLARGED DETAILS
 Approved: Project Director
 Approver

Project Title
VA HEALTH CARE SYSTEM
 Project Number
 438-16-104 2016.052
 Building Number
 5
 Drawing Number
A520

Location
 VAS 438-16-104 BLDG. 5 CHAPEL
 SIOUX FALLS, SD 57105
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