



**U.S. Department of Veterans Affairs**  
Veterans Health Administration

PROJECT NAME:

# VA SIOUX FALLS - CONSTRUCT LABORATORY ADDITION

SITE ADDRESS:

## 2501 WEST 22ND STREET. SIOUX FALLS, SD 57105

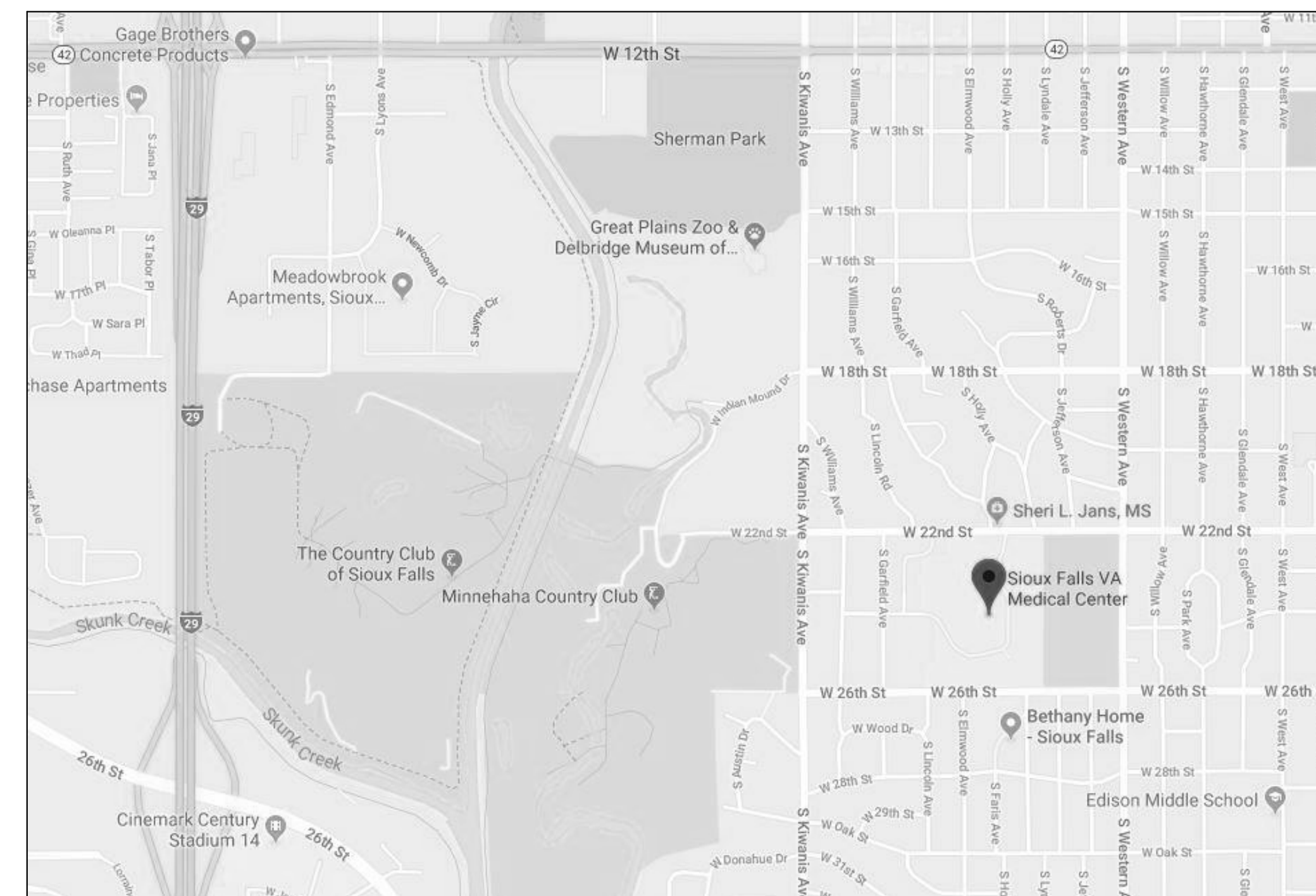
VA PROJECT NUMBER:

438-440

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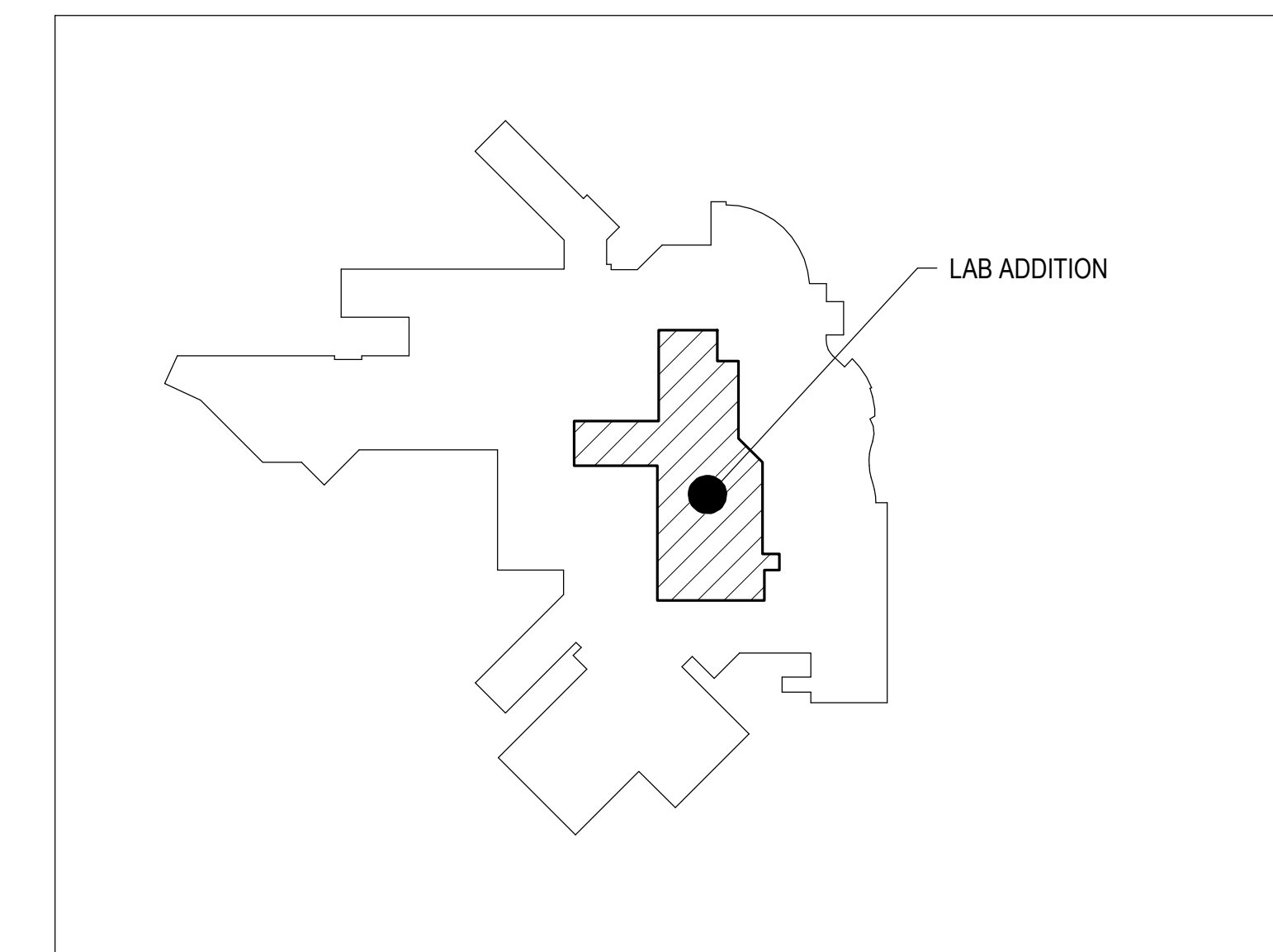
VICINITY MAP:



SITE LOCATION MAP:



KEY PLAN:



35% SD REVIEW	03/14/2018
Revisions:	Date:

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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of Minnesota.

Signature:

Name: Tom Olesak  
Date: 01/10/2019  
License Number: 18157

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title	COVER SHEET
Approved:	

Phase	CONSTRUCTION DOCUMENTS
	FULLY SPRINKLERED

Project Title	CONSTRUCT LABORATORY ADDITION
Location	SIOUX FALLS, SOUTH DAKOTA
Issue Date	01/11/2019
Checked	
Drawn	GJB/JMT

Project Number	438-440
Building Number	5
Drawing Number	GI000

C:\\_Rev\Project\1697\VA SIOUX FALLS LAB ADDITION-2017\_gbarbari@ae-mn.com

**SHEET ABBREVIATION AND NUMBERING**

DISCIPLINE DESIGNATOR <b>AE 1 1 1 - 01</b>	SHEET TYPE DESIGNATOR <b>AF 6 7 0</b>
AE 111-01 ARCHITECTURAL ELEMENTS, PLAN, FIRST FLOOR, FLOOR PLAN, ZONE 1	AF 670 ARCHITECTURAL FINISHES, FINISH SCHEDULE
DISCIPLINE DESIGNATOR <b>QH 1 1 0 - 01</b>	SHEET TYPE DESIGNATOR <b>AE 5 1 2</b>
QH110-01 EQUIPMENT HOSPITAL, PLAN, FIRST FLOOR, FLOOR PLAN, ZONE 1	AE 501 ARCHITECTURAL ELEMENTS, EXTERIOR PLAN DETAILS

DISCIPLINE DESIGNATOR	SHEET TYPE DESIGNATOR	FLOOR LEVEL	SHEET GROUPING
GI - GENERAL INFORMATION AD - ARCHITECTURAL DEMOLITION AS - ARCHITECTURAL SITE AE - ARCHITECTURAL ELEMENTS AF - ARCHITECTURAL FINISHES AC - REFLECTED CEILING PLANS AW - ARCHITECTURAL WAYFINDING IF - INTERIOR FURNISHINGS QC - EQUIPMENT LAUNDRY QF - EQUIPMENT FOOD SERVICE QH - EQUIPMENT HOSPITAL QL - EQUIPMENT LABORATORY	0 - GENERAL 1 - PLANS 2 - ELEVATIONS 3 - SECTIONS 4 - LARGE SCALE VIEWS 5 - DETAILS 6 - SCHEDULES & DIAGRAMS	0 - LOWER LEVEL 1 - FIRST FLOOR 2 - SECOND FLOOR 3 - THIRD FLOOR 4 - FOURTH FLOOR	GENERAL: 00-10 - TITLE SHEET, NOTES, ABBREVIATIONS, SYMBOLS, SCHEDULES  PLANS: 1 - FLOOR PLAN 2 - DIMENSION PLAN  ELEVATIONS: 01-10 - EXTERIOR ELEVATIONS 11-19 - INTERIOR ELEVATION  SECTIONS: 01-10 - BUILDING SECTIONS 11-19 - WALL SECTIONS 20-29 - STAIR SECTIONS & PLANS  DETAILS: 01-19 - EXTERIOR PLAN DETAILS 20-29 - EXTERIOR SECTION DETAILS 30-39 - ROOF DETAILS 40-49 - INTERIOR PLAN DETAILS 50-59 - INTERIOR SECTION DETAILS 60-69 - CEILING DETAILS

NOT ISSUED
ISSUED
R ISSUED FOR REFERENCE ONLY
N ISSUED AS NOTED

**SHEET INDEX - GENERAL**

SHEET NO.	SHEET TITLE	SD ISSUE	DD ISSUE 5/07/18	95% CD REVIEW 10/23/18	CONSTRUCTION DOCUMENTS
G000	COVER SHEET				
G001	SHEET INDEX				
G002	ABBREVIATIONS				
G003	GENERAL NOTES AND SYMBOLS				
G010	FIRST FLOOR LIFE SAFETY PLAN				
G020	SECOND FLOOR LIFE SAFETY PLAN				
G010	GROUND FLOOR INFECTION CONTROL & PHASING PLAN				
G011	FIRST FLOOR INFECTION CONTROL & PHASING PLAN				
G012	SECOND FLOOR INFECTION CONTROL & PHASING PLAN				

**SHEET INDEX - STRUCTURAL**

SHEET NO.	SHEET TITLE	SD ISSUE	DD ISSUE 5/07/18	95% CD REVIEW 10/23/18	CONSTRUCTION DOCUMENTS
S000	GENERAL NOTES				
S001	SYMBOLS AND ABBREVIATIONS				
S010	GROUND FLOOR DEMOLITION PLAN				
SF111	EXISTING ROOF - FIRST FLOOR PLAN				
SF112	BRICK LEDGE PLAN				
SF121	SECOND LEVEL FLOOR FRAMING PLAN				
SF150	ROOF FRAMING PLAN				
SF160	DECK EDGE DETAIL				
SF501	STEEL DETAILS				
SF502	STEEL DETAILS				
SF503	FRAMING DETAILS				
SF504	FRAMING DETAILS				
SF505	FRAMING DETAILS				
SF506	FRAMING DETAILS				

**SHEET INDEX - ARCHITECTURAL**

SHEET NO.	SHEET TITLE	SD ISSUE	DD ISSUE 5/07/18	95% CD REVIEW 10/23/18	CONSTRUCTION DOCUMENTS
AS100	ARCHITECTURAL SITE & STAGING PLAN				
AD101	GROUND FLOOR DEMOLITION PLAN				
AD111	FIRST FLOOR DEMOLITION PLAN				
AD121	SECOND FLOOR DEMOLITION PLAN				
AE101	GROUND FLOOR PLAN - OVERALL				
AE111	FIRST FLOOR PLAN - OVERALL				
AE112	FIRST FLOOR DIMENSION PLAN				
AE111.1	FIRST FLOOR PLAN - OVERALL (DEDUCT ALTERNATE)				
AE112.1	FIRST FLOOR DIMENSION PLAN (DEDUCT ALTERNATE)				
AE121	SECOND FLOOR PLAN - OVERALL				
AE122	SECOND FLOOR DIMENSION PLAN				
AE121.1	SECOND FLOOR PLAN - OVERALL (DEDUCT ALTERNATE)				
AE122.1	SECOND FLOOR DIMENSION PLAN (DEDUCT ALTERNATE)				
AC101	GROUND FLOOR REFLECTED CEILING PLAN				
AC111	FIRST FLOOR REFLECTED CEILING PLAN				
AC121	SECOND FLOOR REFLECTED CEILING PLAN				
AE150	ROOF PLAN				
AE201	EXTERIOR ELEVATIONS				
AE202	EXTERIOR ELEVATIONS (DEDUCT ALTERNATE)				
AE212	INTERIOR ELEVATIONS				
AE301	BUILDING SECTIONS				
AE311	WALL SECTIONS				
AE312	WALL SECTIONS				
AE313	WALL SECTIONS				
AE314	WALL SECTIONS (DEDUCT ALTERNATE)				
AE320	STAIR AND RAMP SECTIONS, ENLARGED PLANS & DETAILS				
AE411	ENLARGED PLANS				
AE501	EXTERIOR PLAN DETAILS				
AE502	EXTERIOR PLAN DETAILS (DEDUCT ALTERNATE)				
AE520	EXTERIOR SECTION DETAILS				
AE521	EXTERIOR SECTION DETAILS				
AE522	EXTERIOR SECTION DETAILS				
AE530	ROOF DETAILS				
AE540	INTERIOR PLAN DETAILS				
AE550	INTERIOR SECTION DETAILS				
AE560	CEILING DETAILS				
AE601	EXTERIOR WALL & INTERIOR PARTITION TYPES & DETAILS				
AE602	OPENING SCHEDULE, DOOR TYPES AND FRAME TYPES				
AE603	WINDOW TYPES AND PROFILE TYPES, LOUVER TYPES				
AE640	MOUNTING HEIGHTS				

**SHEET INDEX - INTERIOR**

SHEET NO.	SHEET TITLE	SD ISSUE	DD ISSUE 5/07/18	95% CD REVIEW 10/23/18	CONSTRUCTION DOCUMENTS
IF111	1ST FLOOR FINISH PLAN				
IF121	2ND FLOOR FINISH PLAN				
AF600	MATERIAL AND ROOM FINISH SCHEDULE				
AW111	1ST FLOOR WAYFINDING PLAN				
AW121	2ND FLOOR WAYFINDING PLAN				
AW601	WAYFINDING MESSAGE SCHEDULES & SIGNAGE DETAILS				
IF121	2ND FLOOR FURNITURE PLAN				

**SHEET INDEX - EQUIPMENT**

SHEET NO.	SHEET TITLE	SD ISSUE	DD ISSUE 5/07/18	95% CD REVIEW 10/23/18	CONSTRUCTION DOCUMENTS
QE120	2ND FLOOR EQUIPMENT PLAN - OVERALL				
QH411	2ND FLOOR ENLARGED EQUIPMENT PLANS & ELEVATIONS				
QH412	ENLARGED EQUIPMENT PLANS & ELEVATIONS - HISTOLOGY				
QH413	ENLARGED EQUIPMENT PLANS & ELEVATIONS - LABORATORY				
QH414	ENLARGED EQUIPMENT PLANS & ELEVATIONS - MICROBIOLOGY				

**SHEET INDEX - FIRE PROTECTION**

SHEET NO.	SHEET TITLE	SD ISSUE	DD ISSUE 5/07/18	95% CD REVIEW 10/23/18	CONSTRUCTION DOCUMENTS
FP000	FIRE PROTECTION COVER SHEET				
FP101	GROUND FLOOR PLAN - FIRE PROTECTION				
FP111	1ST FLOOR PLAN - FIRE PROTECTION				
FP121	2ND FLOOR PLAN - FIRE PROTECTION				

**SHEET INDEX - PLUMBING**

SHEET NO.	SHEET TITLE	SD ISSUE	DD ISSUE 5/07/18	95% CD REVIEW 10/23/18	CONSTRUCTION DOCUMENTS
P000	PLUMBING COVER SHEET				
P101	GROUND FLOOR PLAN - PLUMBING				
P111	1ST FLOOR PLAN - PLUMBING				
P121	2ND FLOOR PLAN - PLUMBING				
P150	ROOF PLAN - PLUMBING				
P300	PLUMBING DETAILS				
P400	ENLARGED PLANS - PLUMBING				
P401	PLUMBING ISOMETRIC VIEWS				
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**SHEET INDEX - MECHANICAL**

SHEET NO.	SHEET TITLE	SD ISSUE	DD ISSUE 5/07/18	95% CD REVIEW 10/23/18	CONSTRUCTION DOCUMENTS
MP000	PIPING COVER SHEET				
MP101	GROUND FLOOR PLAN - MECHANICAL - PIPING				
MP111	1ST FLOOR PLAN - MECHANICAL - PIPING				
MP121	2ND FLOOR PLAN - MECHANICAL - PIPING				
MP300	MECHANICAL PIPING DETAILS				
MP500	MECHANICAL PIPING SCHEDULES				
MP400	FLOW DIAGRAMS				
MP600	CONTROL DIAGRAMS				
MP401	FLOW DIAGRAMS				
MP402	FLOW DIAGRAMS				
MP403	FLOW DIAGRAMS				
MP150	ROOF PLAN - PIPING				
MP112	1ST FLOOR PLAN - MECHANICAL - PIPING				
MP601	CONTROL DIAGRAMS				
MP602	CONTROL DIAGRAMS				
MP301	MECHANICAL PIPING DETAILS				
MP101	GROUND FLOOR PLAN - MECHANICAL - PIPING DEMOLITION				
MP111	1ST FLOOR PLAN - MECHANICAL - PIPING DEMOLITION				
MP121	2ND FLOOR PLAN - MECHANICAL - PIPING DEMOLITION				
MP113	BASEMENT AND GROUND FLOOR PLANS - PIPING				
MV000	VENTILATION COVER SHEET				
MVD111	1ST FLOOR PLAN - MECHANICAL - VENTILATION - DEMOLITION				
MVD121	2ND FLOOR PLAN - MECHANICAL - VENTILATION - DEMOLITION				
MV111	1ST FLOOR PLAN - MECHANICAL - VENTILATION				
MV121	2ND FLOOR PLAN - MECHANICAL - VENTILATION				
MV150	ROOF PLAN - VENTILATION				
MV300	MECHANICAL VENTILATION DETAILS				
MV301	MECHANICAL VENTILATION DETAILS				
MV500	MECHANICAL VENTILATION SCHEDULES				

**SHEET INDEX - ELECTRICAL**

SHEET NO.	SHEET TITLE	SD ISSUE	DD ISSUE 5/07/18	95% CD REVIEW 10/23/18	CONSTRUCTION DOCUMENTS
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E101	GROUND FLOOR PLAN - ELECTRICAL				
E111	1ST FLOOR PLAN - ELECTRICAL				
E121	2ND FLOOR PLAN - ELECTRICAL - LIGHTING				
EP121	2ND FLOOR PLAN - ELECTRICAL - POWER				
ES121	2ND FLOOR PLAN - ELECTRICAL - SYSTEMS				
E150	ROOF PLAN - ELECTRICAL				
E300	ELECTRICAL DETAILS				
E301	ELECTRICAL DETAILS				
E400	ELECTRICAL ONE LINE DIAGRAM				
E500	ELECTRICAL SCHEDULES				
E501	ELECTRICAL SCHEDULES				


**SHEET INDEX - TECHNOLOGY**

SHEET NO.	SHEET TITLE	SD ISSUE	DD ISSUE 5/07/18	95% CD REVIEW 10/23/18	CONSTRUCTION DOCUMENTS
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T111	1ST FLOOR PLAN - TECHNOLOGY				
T121	2ND FLOOR PLAN - TECHNOLOGY				
T200	ENLARGEMENTS - TECHNOLOGY				
T300	DETAILS - TECHNOLOGY				
T400	RISERS - TECHNOLOGY				
T401	RISERS - TECHNOLOGY				
T500	SCHEDULES - TECHNOLOGY				

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35% SD REVIEW	03/14/2018
Revisions:	Date:

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AE PROJECT NUMBER: 14567

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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of Minnesota.

Signature: *Tom Olesak*

Name: Tom Olesak  
Date: 01/10/2019  
License Number: 18157

Office of  
Construction  
and Facilities  
Management

**VA** U.S. Department  
of Veterans  
Affairs

Drawing Title  
**SHEET INDEX**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

Checked

Drawn  
GJB/JMT

Project Number  
**438-440**

Building Number  
**5**

Drawing Number  
**GI001**



**RCP GENERAL NOTES**

- GENERAL CONTRACTOR TO COORDINATE ALL CEILING MOUNTED EQUIPMENT SUPPORT REQUIREMENTS, LOCATIONS, DIMENSIONS, ETC WITH EQUIPMENT SUPPLIER AND OWNER, PRIOR TO INSTALLATION.
- ALL CEILING MOUNTED ITEMS SUCH AS LIGHT FIXTURES, GRILLES, DIFFUSERS, SPEAKERS, EXIT LIGHTS, ETC SHALL BE LOCATED IN THE CENTER OF ACT PANELS. GPBD SOFFITS AND/OR PLASTER SOFFIT BAYS, UNLESS NOTED OTHERWISE, COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS.
- FINISHED GPBD SOFFITS SHALL EXTEND 1" BEYOND FACE AND EXPOSED ENDS OF WALL CABINETS, FULL-HEIGHT CABINETS, ETC UNLESS NOTED OTHERWISE. COORDINATE CABINET DIMENSIONS WITH SUPPLIER. GPBD FASCIA/SOFFIT DETAILS ARE REFERENCED FROM THE REFLECTED CEILING PLAN.
- SEE MECHANICAL DRAWINGS FOR SPRINKLER HEAD TYPES AND LOCATIONS. CENTER ALL HEADS IN ACT OR ACB UNLESS NOTED OTHERWISE.
- AT REMODELING WORK IN EXISTING ACT SUSPENSION SYSTEM, REMOVE EXISTING PANELS, CUT AS REQUIRED FOR CONSTRUCTION AND RE-INSTALL. REPLACE ALL DAMAGED AND / OR EXTREMELY SOILED PANELS WITH ACT TO MATCH EXISTING.

**REFLECTED CEILING PLAN SYMBOLS**

	GPBD CEILING / SOFFIT		2'0" x 4'0" LIGHT FIXTURE
	ACT CEILING SYSTEM		2'0" x 2'0" LIGHT FIXTURE
	EXISTING ACT CEILING SYSTEM		PENDANT STRIP LIGHT FIXTURE
	IV TRACK		PENDANT STRIP LIGHT FIXTURE
	CUBICLE CURTAIN TRACK		RECESSED LIGHT FIXTURE
	ACCESS PANEL		WALL SCONCE LIGHT FIXTURE
	MECHANICAL SUPPLY GRILL		MECHANICAL LINEAR SUPPLY GRILL
	MECHANICAL RETURN GRILL		CEILING ELEVATION AND FINISH

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

**REFLECTED CEILING KEYED NOTES**

- MODIFY CEILING AS REQUIRED. SEE PLANS FOR ADDITIONAL INFORMATION
  - REINSTALL SALVAGED CEILING TILE, GRID AND ANY MECHANICAL ITEMS AS REQUIRED FROM CONSTRUCTION. SEE PLANS
  - PROVIDE ACCESS PANELS PER SPECIFICATIONS SECTION 08 31 13
- NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

**FINISH PLAN GENERAL NOTES**

- REFER TO PROJECT MANUAL SPECIFICATION SECTION 09 60 00 'SCHEDULE FOR FINISHES' FOR SPECIFIC PRODUCT SELECTION BASIS OF DESIGN AND OTHER REQUIREMENTS
- FIELD FINISH VENTS, GRILLES, ACCESS PANELS, PLUG STRIP, BASEBOARD RADIATION ENCLOSURES, ELECTRICAL PANEL BOARDS (IN FINISHED SPACES) TO MATCH SURFACE ON WHICH THEY OCCUR UNLESS OTHERWISE INDICATED. EXCEPTION: ITEMS WITH FACTORY WHITE FINISH, OCCURRING ON WHITE ACT OR WHITE GYPSUM BOARD CEILING SHALL NOT BE PAINTED. STAINLESS STEEL ITEMS SHALL NOT BE PAINTED
- FIELD VERIFY ALL NEW CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION
- LOCATE CHANGES IN FLOOR FINISH MATERIAL UNDER CENTERLINE OF CLOSED DOOR UNLESS OTHERWISE INDICATED
- PROVIDE CLEAR SILICONE SEALANT AT PERIMETER OF PLUMBING FLOOR DRAINS, CLEAN OUTS, ETC IN RESILIENT AND CERAMIC TILE FLOORS
- PROVIDE SEALANT TO HORIZONTAL AND VERTICAL INTERIOR CERAMIC TILE CORNERS, COLOR TO MATCH GROUT COLOR
- PROVIDE SEALANT AT JOINT BETWEEN COUNTER TOP, BACK OR SIDE SPLASH AND WALLS
- PROVIDE CLEAR SILICONE SEALANT AT THE BASE OF DOOR FRAME TO RESILIENT AND CT FLOORING, TYP. SEE PLANS AND ROOM FINISH SCHEDULE FOR FLOOR FINISH LOCATIONS
- HOLLOW METAL DOORS AND FRAMES TO BE PAINTED PT-2, UNLESS NOTED OTHERWISE IN THE ROOM OPENING SCHEDULE
- WOOD: PRE-FINISHED TO MATCH BUILDING STANDARD, REFER TO SPECIFICATION
- CEILING HEIGHTS AND MATERIALS/FINISHES CALLED OUT IN ROOM FINISH SCHEDULE ARE FOR ENTIRE CEILING OR MAJORITY OF THAT ROOM, UNLESS OTHERWISE INDICATED. SEE REFLECTED CEILING PLAN FOR CHANGES IN CEILING MATERIAL AND CEILING HEIGHT. PAINT ALL SURFACES OF SOFFIT SAME COLOR AS INDICATED
- COLOR SELECTIONS ARE BASED ON USE OF PRODUCTS INDICATED IN THE PROJECT MANUAL SPECIFICATION. IF MANUFACTURERS OTHER THAN THOSE INDICATED ARE USED, ARCHITECT MAY REVISE COLOR SELECTIONS OF OTHER FINISHES TO ENSURE PROPER COORDINATION
- PAINT ALL FIRE EXTINGUISHER CABINETS TO MATCH COLOR OF THE ADJACENT WALLS
- CEILING HEIGHTS ARE MEASURED FROM FINISH FLOOR
- FOR FLOOR FINISH MATERIALS AND PATTERN, SEE ALSO INT FINISH PLAN
- SEE INTERIOR ELEVATIONS FOR MORE FINISH INFO

**ROOM FINISH LEGEND & ABBREVIATIONS**

	CORNER GUARD		KEYNOTE
	WALL PROTECTION		MATERIAL INSTALL DIRECTION
	VCT		
AT	ACOUSTICAL CEILING (TILE)		
CT	CERAMIC TILE		
EPY	EPOXY FLOORING		
GWB (SC)	GYPSUM WALL/BACK SYSTEMS (SPECIAL COATING)		
LVT	LUXURY VINYL TILE		
P	PAINT		
PT	PORCELAIN TILE (FLOOR AND BASE)		
PRB	PROFILE BASE		
RB	RESILIENT BASE		
RES	RESINOUS FLOORING		
RES-W	RESINOUS/EPOXY WALL/CEILING		
RWC	RIGID VINYL WALL COVERING		
RF	RUBBER FLOORING		
RSF	RESILIENT SHEET FLOORING		
S	SOLID SURFACE		
SC	SPECIAL COATING		
SP	SPECIAL FACED		
SVT	SOLID VINYL TILE		
VCT	VINYL COMPOSITION TILE		
WSF	WELDED SEAM SHEET FLOORING (HEAT WELDED WITH ROD)		

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

**DEMOLITION GENERAL NOTES**

- GENERAL CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK PHASING AND SEQUENCING WITH THE OWNER. ANY INFORMATION REGARDING SEQUENCING PROVIDED IN THESE DOCUMENTS IS FOR ARCHITECT - OWNER PLANNING PURPOSES ONLY, UNLESS NOTED OTHERWISE.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL TRADES FOR THE DEMOLITION WORK REQUIRED FOR THIS PROJECT.
- WHERE PARTITIONS ARE INDICATED TO BE REMOVED, REMOVE PARTITION ALONG WITH ALL ITEMS CONTAINED WITHIN, INCLUDING DOORS, FRAMES, HARDWARE, SIDELIGHTS, WINDOWS, MECHANICAL AND ELECTRICAL EQUIPMENT, ETC. TO STRUCTURE ABOVE, UNLESS NOTED OTHERWISE.
- WHERE FLOOR FINISH IS INDICATED TO BE DEMOLISHED, REMOVE FINISH TO FLOOR SLAB AS REQUIRED AND PREPARE SLAB SURFACE FOR SCHEDULED FINISHES WITHIN AREA TO BE REMODELED, UNLESS NOTED OTHERWISE. SEE FINISH SCHEDULE FOR EXISTING FLOOR FINISHES TO REMAIN UNDISTURBED.
- WHERE CEILING IS INDICATED TO BE DEMOLISHED, REMOVE CEILING SUSPENSION SYSTEM ALONG WITH ALL ASSOCIATED MECHANICAL AND ELECTRICAL ITEMS, UNLESS NOTED OTHERWISE. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR EXTENT OF CONDUIT, PIPING AND DUCTWORK DEMOLITION WITHIN AREA TO BE REMODELED.
- WHERE INDICATED, REMOVE ALL WALL/PARTITION EXISTING FINISHES AND PREPARE THE SURFACES FOR SCHEDULED FINISHES. SEE FINISH SCHEDULE FOR FINISHES.
- ALL DISTURBED AREAS, WALLS, PARTITIONS, FLOORS, ETC, DAMAGED BY DEMOLITION WORK SHALL BE PATCHED TO MATCH ADJACENT AREA.
- OWNER RESERVES THE RIGHT OF FIRST REFUSAL OF ALL SALVAGED ITEMS SUCH AS: DOORS, LIGHT FIXTURES, PLUMBING FIXTURES ETC.
- SALVAGED ITEMS SCHEDULED FOR REUSE SHALL BE CLEANED, RESTORED AND/OR REFINISHED TO LIKE NEW CONDITION, UNLESS NOTED OTHERWISE.
- DO NOT REMOVE ANY EXISTING STRUCTURAL SUPPORT MEMBERS SUCH AS COLUMNS, BEAMS, JOISTS, LOAD-BEARING PARTITIONS ETC, UNTIL ADEQUATE PERMANENT OR TEMPORARY SUPPORT IS IN PLACE. ALL EXISTING STRUCTURAL MEMBERS SHALL BE ADEQUATELY PROTECTED, COORDINATE WITH STRUCTURAL ENGINEER.
- SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR RELATED DEMOLITION AND PREP WORK.
- WALL AND CEILING MOUNTED ITEMS SHOWN DASHED, SUCH AS WALL CABINETS, SHELVING, CUBICLE CURTAIN TRACKS, PROJECTION SCREENS ETC, SHALL BE REMOVED, UNLESS NOTED OTHERWISE.
- WITHIN ALL EXISTING ROOMS/SPACES RECEIVING SCHEDULED FLOOR, OR WALL, OR CEILING FINISHES, REMOVE ALL EXISTING FLOOR, OR WALL, OR CEILING FINISHES DOWN TO THE SUBSTRATE. INCLUDE THE REMOVAL OF ALL ITEMS LOCATED WITHIN THE EXISTING FINISH REMOVALS UNO PATCH AND PREP ALL SUBSTRATES TO RECEIVE SCHEDULED FINISHES. FOR ADDITIONAL INFORMATION, SEE KEYNOTED ITEMS, FINISH PLANS AND/OR SCHEDULES, STRUCTURAL, MECHANICAL AND ELECTRICAL.

**DEMOLITION PLAN SYMBOLS**

	EXISTING WALL TO REMAIN		EXISTING DOOR AND FRAME TO REMAIN
	WALL OR PARTITION TO BE REMOVED		EXISTING DOOR AND FRAME TO BE DEMOLISHED
	DASHED LINE INDICATES ITEM TO BE REMOVED (UNO)		KEY NOTE
	GRIDLINE		

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

**DEMOLITION PLAN KEYED NOTES**

- REMOVE CEILING IN ITS ENTIRETY, INCLUDING ALL MECHANICAL AND ELECTRICAL ITEMS. -SEE MECHANICAL/ ELECTRICAL.
  - REMOVE BASE CABINETS, COUNTERTOP, UPPER CABINETS, TALL CABINETS AND / OR SHELVING.
  - REMOVE PLUMBING FIXTURES AND ACCESSORIES. SALVAGE FOR REINSTALLATION. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION. -SEE MECHANICAL.
  - REMOVE SYSTEMS FURNITURE IN ITS ENTIRETY. SALVAGE AND RETURN TO OWNER. -SEE MECHANICAL FOR ADDITIONAL INFORMATION.
  - REMOVE WINDOW TREATMENT.
  - REMOVE DOOR, FRAME AND HARDWARE. SALVAGE FOR REINSTALLATION. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
  - REMOVE PORTION OF PARTITION AS REQUIRED. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
  - REMOVE GPBD ON ONE SIDE OF PARTITION AS REQUIRED FOR MECHANICAL WORK. -SEE MECHANICAL.
  - REMOVE SKYLIGHT SYSTEM IN ITS ENTIRETY.
  - SAW CUT AND REMOVE EXTERIOR CONCRETE WALL. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION. -SEE STRUCTURAL.
  - REMOVE WALL MOUNTED EXTERIOR LADDER AND CAGE. SALVAGE FOR REINSTALLATION. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
  - SAW CUT BRICK AND CONCRETE BLOCK WALL. REMOVE PORTION OF EXTERIOR WALL. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
  - REMOVE EXTERIOR WINDOW SYSTEM IN ITS ENTIRETY.
  - CUT OPENING INTO EXTERIOR WALL. -SEE PLAN FOR ADDITIONAL INFORMATION.
  - REMOVE EXTERIOR METAL SHINGLE SIDING. SEE PLAN FOR ADDITIONAL INFORMATION.
  - REMOVE MECHANICAL LOUVERS. SALVAGE FOR REINSTALLATION. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION. -SEE MECHANICAL.
  - REMOVE PORTION OF MEMBRANE ROOFING SYSTEM. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
  - REMOVE PORTION OF METAL CAP FLASHING. SEE ROOF PLAN FOR ADDITIONAL INFORMATION.
  - REMOVE INTERIOR SIGNAGE. SALVAGE FOR REINSTALLATION.
  - REMOVE PORTION OF CEILING. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
  - SAW CUT FLOOR AS REQUIRED FOR CONSTRUCTION - SEE FLOOR PLANS, STRUCTURAL AND / OR MECHANICAL FOR ADDITIONAL INFORMATION.
  - CUT HOLE IN WALL AS REQUIRED FOR PIPE PENETRATION - SEE MEP DRAWINGS.
  - REMOVE DOOR, FRAME AND HARDWARE AND WALL BELOW DOOR DOWN TO EXISTING FLOOR.
  - REMOVE UPPER CABINET AND COUNTERTOP. SALVAGE FOR REINSTALLATION.
  - REMOVE DOOR, FRAME AND HARDWARE. SALVAGE FOR REINSTALLATION.
  - REMOVE DISPLAY CASE/DIRECTORY. SALVAGE FOR REINSTALLATION.
- NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

**GENERAL NOTES**

- THE ARCHITECTURAL DRAWINGS SHOW PRINCIPAL AREAS AND LIMITS OF CONSTRUCTION WHERE WORK MUST BE ACCOMPLISHED UNDER THIS CONTRACT. INCIDENTAL WORK MAY BE NECESSARY IN AREAS NOT SHOWN ON ARCHITECTURAL DRAWINGS DUE TO CHANGES AFFECTING ELECTRICAL, MECHANICAL AND PLUMBING ALONG WITH OTHER SYSTEMS. THIS INCIDENTAL WORK SHALL BE PART OF THIS CONTRACT, AND ALL TRADES SHALL INSPECT THESE AREAS, ASCERTAIN WORK REQUIRED AND DO THE WORK IN ACCORDANCE OF CONTRACT REQUIREMENTS AT NO ADDITIONAL COST.
- CONTRACTORS SHALL VISIT THE SITE DURING BIDDING TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS. THE GENERAL CONTRACTOR SHALL LOCATE, INSPECT AND FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS PRIOR TO DEMOLITION AND CONSTRUCTION. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
- DO NOT SCALE DRAWINGS. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES. WHEREVER OPENINGS ARE CUT THROUGH FIRE RATED PARTITIONS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR WHOM THE HOLE IS CUT TO PATCH AND REPAIR ANY OPENING TO MAINTAIN THE INTEGRITY OF THE FIRE RATING.
- GENERAL CONTRACTOR TO CHECK MECHANICAL DRAWINGS FOR EXISTING PIPES AND DUCTS FURRED IN WALLS. VERIFY SIZE AND LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO PROCEEDING WITH REMODELING.
- FIREPROOFING SHALL BE UNPIERCED. ANY SUBCONTRACTOR PENETRATING THE FIREPROOFING SHALL BE REQUIRED TO REPLACE FIREPROOFING TO THE ORIGINAL CONDITION AND FIRE RATING, AT THE SUBCONTRACTORS EXPENSE.
- EQUIPMENT UNIT DIMENSIONS ARE FOR PRODUCT DESCRIPTION ONLY. VERIFY SIZE WITH MANUFACTURER.
- ALL DIMENSIONS PERTAINING TO MECHANICAL OR ELECTRICAL SERVICES OR EQUIPMENT SHALL BE VERIFIED WITH THE RESPECTIVE TRADE.
- ALL CONTRACTORS THAT PENETRATE AND/OR DISTURB ANY AREAS AT EXISTING CONDITIONS SHALL PATCH AREA TO MATCH EXISTING ADJACENT AREA OR SURFACE AND PREPARE FOR SCHEDULED FINISH APPLICATION. COORDINATE WORK WITH GENERAL CONTRACTOR PRIOR TO PROCEEDING.
- VERIFY HEIGHTS AND LOCATIONS OF ACCESS PANELS (AP) AND COORDINATE TYPES WITH TRADES WHICH REQUIRE THEM.
- PROVIDE LINTELS AND FRAMING FOR GRILLES, LOUVERS, AND ROOF VENTS AS REQUIRED BY MECHANICAL CONTRACTOR, VERIFY SIZE AND LOCATION.
- STRUCTURAL, MECHANICAL, AND ELECTRICAL ABBREVIATIONS AND SYMBOLS MAY DIFFER FROM ARCHITECTURAL. SEE RESPECTIVE SECTIONS AND/OR DRAWINGS FOR DEFINITIONS.
- AT MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS, PROVIDE 3/4" FRT PLYWOOD BACKING BEHIND ALL SURFACE MOUNTED FIXTURES AND EQUIPMENT, UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL EVALUATE INTEGRITY OF ALL PARTITIONS INDICATED BY SYMBOLS ON THE LIFE SAFETY PLANS(S) WITHIN THE PROJECT SCOPE AND UPGRADE AS REQUIRED. ALL FIRE RESISTIVE RATED WALLS SHALL BE CONSTRUCTED OF MATERIALS / ASSEMBLIES MEETING THE RATING INDICATED, TERMINATE AT THE DECK ABOVE WITH A TESTED HEAD OF WALL ASSEMBLY AND ALL PENETRATIONS SHALL BE SEALED WITH A TESTED ASSEMBLY. ALL SMOKE PARTITIONS SHALL BE CONSTRUCTED OF MATERIALS THAT RESIST THE PASSAGE OF SMOKE, TERMINATE AT THE DECK ABOVE WITH A JOINT SEALED WITH FIRE CAULK AND ALL PENETRATIONS SHALL BE SEALED WITH FIRE CAULK.

**FLOOR PLAN SYMBOLS**

	EXISTING WALL TO REMAIN		DIMENSION LINE, NOMINAL
	WALL		EXTENDED DIMENSION LINE, NOMINAL
	EXISTING DOOR AND FRAME TO REMAIN		INTERIOR ELEVATION INDICATOR TAG
	DOOR		EXTERIOR ELEVATION INDICATOR TAG
	INTERIOR BORROWED LIGHT		EQUIPMENT TAG
	WALL TAG		FLOOR ELEVATION
	OFFICE		ROOM NAME AND NUMBER
	KEY NOTE		DETAIL REFERENCE TAG
	INTERIOR SECTION REFERENCE TAG		EXTERIOR SECTION REFERENCE TAG
	REVISION TAG		REVISION CLOUD
	GRIDLINE		

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

**FLOOR PLAN KEYED NOTES**

- UPGRADE PARTITION INDICATED TO NFPA101 1 HOUR FIRE / SMOKE BARRIER. SEAL ALL EXISTING PENETRATIONS WITH FIRE CAULK AS REQUIRED. SEE LIFE SAFETY PLAN
  - REINSTALL POWER DOOR OPERATOR AND/OR CARD READER
  - SEMI RECESSED FIRE EXTINGUISHER CABINET
  - INFILL OPENING AT REMOVED SKYLIGHT AND PATCH ROOF AS REQUIRED. -SEE STRUCTURAL.
  - PATCH FLOOR AS REQUIRED FROM DEMOLITION. -SEE STRUCTURAL.
  - EXISTING LOUVERS TO BE REINSTALLED. -SEE MECHANICAL.
  - FIRE RATED EXPANSION JOINT. SEE LIFE SAFETY PLANS AND STRUCTURAL FOR ADDITIONAL INFORMATION.
  - INFILL OPENING AT REMOVED SKYLIGHT AS REQUIRED. -SEE STRUCTURAL.
  - 6" HIGH CONTINUOUS CONCRETE CURB
  - 6" HIGH CONCRETE HOUSEKEEPING PAD. COORDINATE SIZE AND LOCATION WITH MECHANICAL.
  - PNEUMATIC TUBE STATION. PROVIDE TUBE ROUTING THROUGH INTERSTITIAL AND ABOVE CEILING AS REQUIRED, AND ALL REQUIRED EQUIPMENT, CONNECTIONS AND SUPPORT SYSTEMS FOR THIS STATION AND TWO FUTURE STATIONS. FUTURE STATIONS ARE TO BE A SENDING AND RECEIVING STATION AT GROUND FLOOR ONKOLOGY NURSE STATION AND AT NURSE STATION IN EMERGENCY DEPARTMENT. COORDINATE LOCATIONS WITH COR. SEE PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - 18" x 18" ACCESS PANEL. COORDINATE LOCATION WITH MECHANICAL AND SPECIFICATIONS SECTION 08 31 13
  - CONCRETE RAMP
  - PATCH WALL AS REQUIRED FOR PIPE PENETRATIONS - SEE MEP DRAWINGS
  - PATCH FLOOR AS REQUIRED FROM DEMOLITION. -SEE MECHANICAL / STRUCTURAL.
  - REINSTALL SALVAGED COUNTERTOP AND WALL CABINET. MODIFY COUNTER TOP AS REQUIRED
  - REINSTALL SALVAGED DOOR, FRAME AND HARDWARE
  - REINSTALL SALVAGED DISPLAY CASE/DIRECTORY. COORDINATE LOCATION WITH OWNER
  - REINSTALL SALVAGED SIGNAGE. COORDINATE LOCATION WITH OWNER
  - INSTALL PARTITION TIGHT AS POSSIBLE TO PIPING. COORDINATE WITH MECHANICAL.
  - PATCH PARTITION AS REQUIRED FROM MECHANICAL/ ELECTRICAL WORK. SEE MECHANICAL/ ELECTRICAL FOR ADDITIONAL INFORMATION.
- NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

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AE PROJECT NUMBER: 14567

**STAMP**

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of Minnesota.

Signature:

Name: Tom Olesak  
Date: 01/10/2019  
License Number: 18157

Office of  
Construction  
and Facilities  
Management

VA U.S. Department  
of Veterans  
Affairs

Drawing Title  
**GENERAL NOTES AND SYMBOLS**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

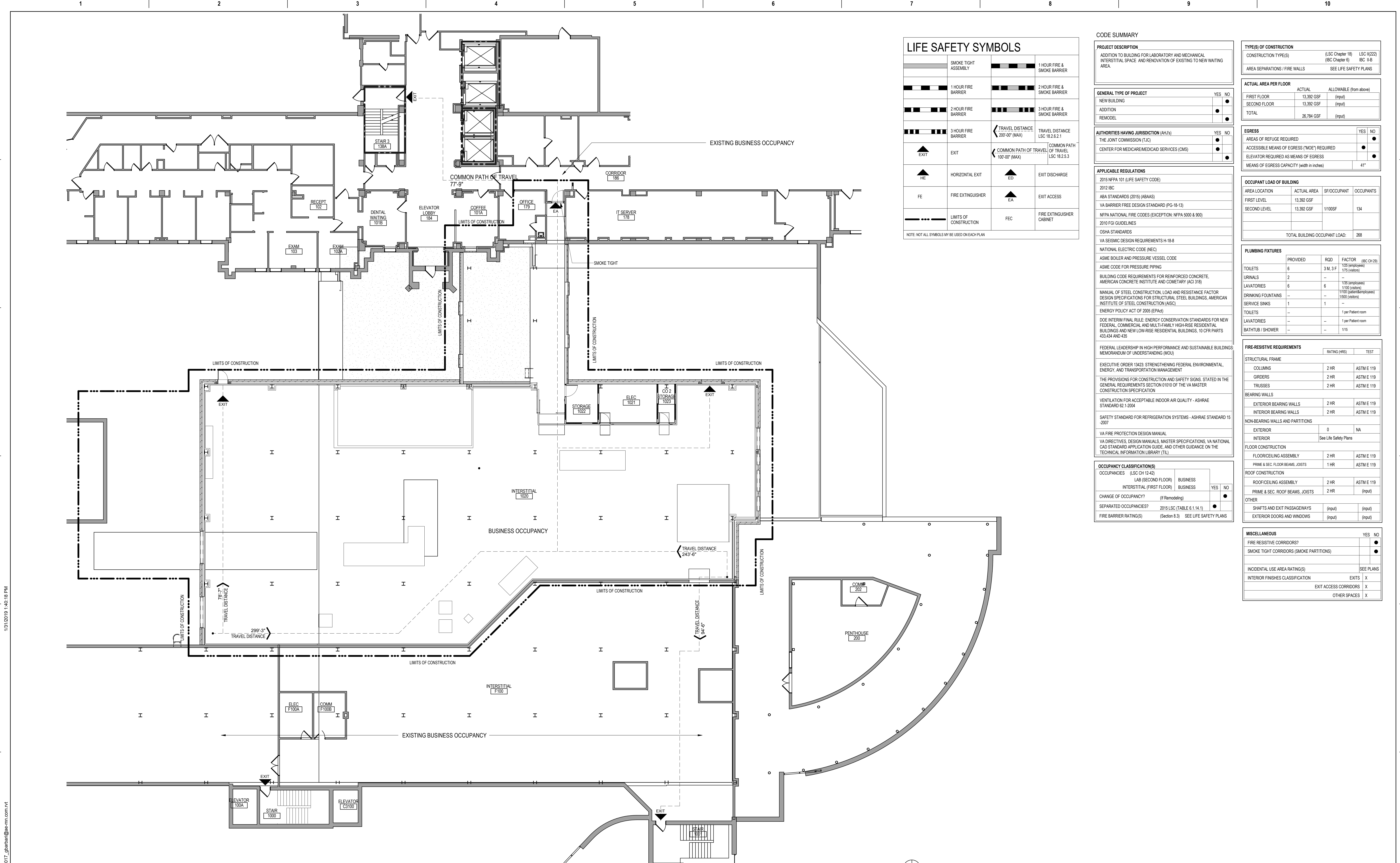
Issue Date  
01/11/2019

Checked  
Drawn  
GJB/JMT

Project Number  
**438-440**

Building Number  
**5**

Drawing Number  
**GI003**



### LIFE SAFETY SYMBOLS

	SMOKE TIGHT ASSEMBLY		1 HOUR FIRE & SMOKE BARRIER
	1 HOUR FIRE BARRIER		2 HOUR FIRE & SMOKE BARRIER
	2 HOUR FIRE BARRIER		3 HOUR FIRE & SMOKE BARRIER
	3 HOUR FIRE BARRIER		TRAVEL DISTANCE LSC 18.2.6.2.1
	EXIT		COMMON PATH OF TRAVEL LSC 18.2.5.3
	HORIZONTAL EXIT		EXIT DISCHARGE
	FIRE EXTINGUISHER		EXIT ACCESS
	LIMITS OF CONSTRUCTION		FIRE EXTINGUISHER CABINET

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

### CODE SUMMARY

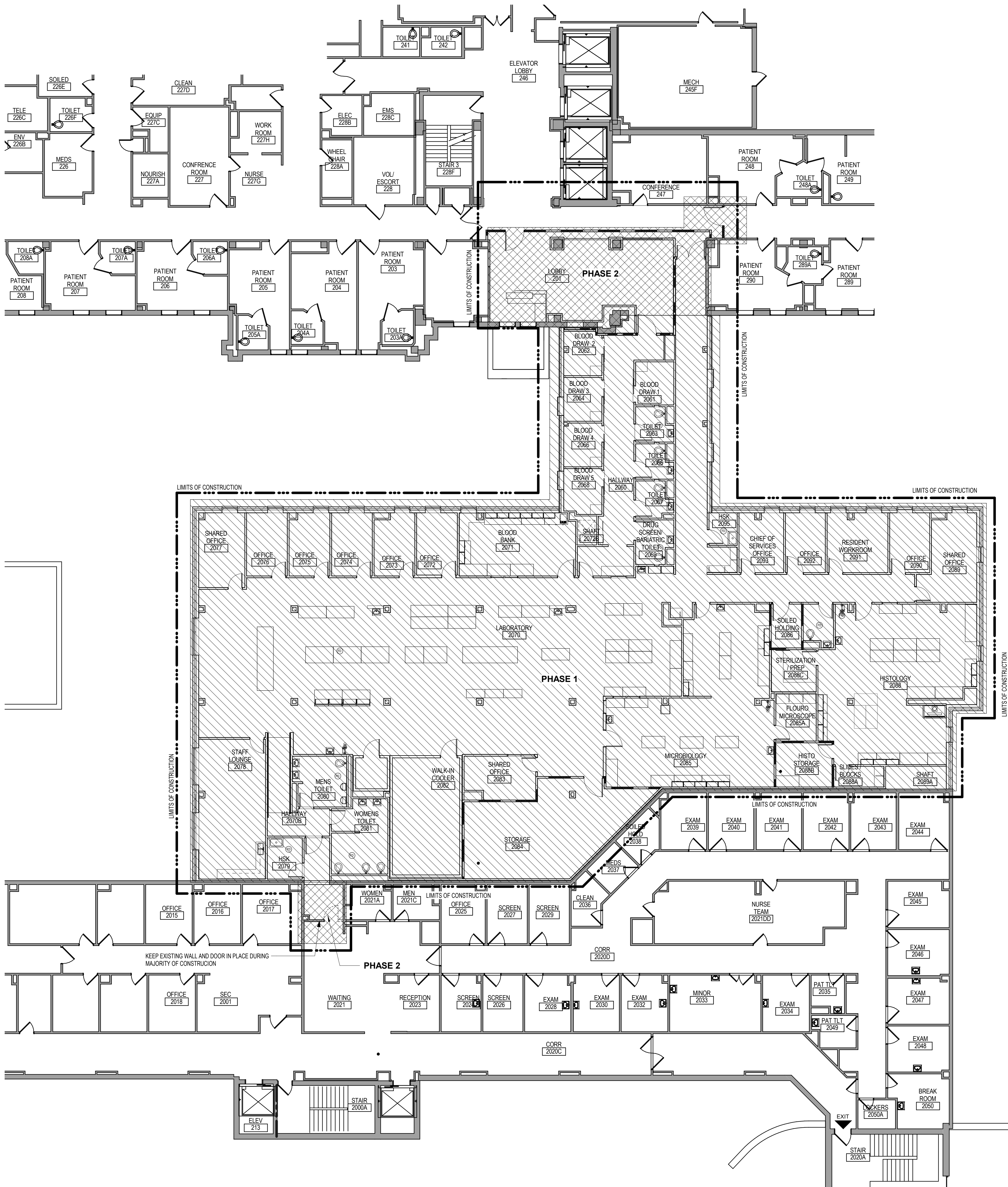
<b>PROJECT DESCRIPTION</b>		ADDITION TO BUILDING FOR LABORATORY AND MECHANICAL INTERSTITIAL SPACE AND RENOVATION OF EXISTING TO NEW WAITING AREA	
<b>GENERAL TYPE OF PROJECT</b>		YES	NO
NEW BUILDING		<input type="checkbox"/>	<input checked="" type="checkbox"/>
ADDITION		<input checked="" type="checkbox"/>	<input type="checkbox"/>
REMODEL		<input type="checkbox"/>	<input type="checkbox"/>
<b>AUTHORITIES HAVING JURISDICTION (A/H's)</b>		YES	NO
THE JOINT COMMISSION (TJC)		<input type="checkbox"/>	<input checked="" type="checkbox"/>
CENTER FOR MEDICARE/MEDICAID SERVICES (CMS)		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>APPLICABLE REGULATIONS</b>		2015 NFPA 101 (LIFE SAFETY CODE)	
2012 IBC		ABA STANDARDS (2015) (ABAS)	
VA BARRIER FREE DESIGN STANDARD (PG-18-13)		NFPA NATIONAL FIRE CODES (EXCEPTION: NFPA 5000 & 800)	
2010 FGI GUIDELINES		OSHA STANDARDS	
VA SEISMIC DESIGN REQUIREMENTS H-18-8		NATIONAL ELECTRIC CODE (NEC)	
ASME BOILER AND PRESSURE VESSEL CODE		ASME CODE FOR PRESSURE PIPING	
BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITUTE AND CONCRETE (ACI 318)		MANUAL OF STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)	
ENERGY POLICY ACT OF 2005 (EPAct)		DOE INTERIM FINAL RULE: ENERGY CONSERVATION STANDARDS FOR NEW FEDERAL, COMMERCIAL AND MULTI-FAMILY HIGH-RISE RESIDENTIAL BUILDINGS AND NEW LOW-RISE RESIDENTIAL BUILDINGS, 10 CFR PARTS 433.434 AND 435	
FEDERAL LEADERSHIP IN HIGH PERFORMANCE AND SUSTAINABLE BUILDINGS: MEMORANDUM OF UNDERSTANDING (MOU)		EXECUTIVE ORDER 13423: STRENGTHENING FEDERAL ENVIRONMENTAL, ENERGY, AND TRANSPORTATION MANAGEMENT	
THE PROVISIONS FOR CONSTRUCTION AND SAFETY SIGNS, STATED IN THE GENERAL REQUIREMENTS SECTION 01010 OF THE VA MASTER CONSTRUCTION SPECIFICATION		VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY - ASHRAE STANDARD 52.1-2004	
SAFETY STANDARD FOR REFRIGERATION SYSTEMS - ASHRAE STANDARD 15-2007		VA FIRE PROTECTION DESIGN MANUAL	
VA DIRECTIVES, DESIGN MANUALS, MASTER SPECIFICATIONS, VA NATIONAL CAD STANDARD APPLICATION GUIDE, AND OTHER GUIDANCE ON THE TECHNICAL INFORMATION LIBRARY (TIL)		<b>OCCUPANCY CLASSIFICATION(S)</b>	
OCCUPANCIES	LAB (SECOND FLOOR)	BUSINESS	
INTERSTITIAL (FIRST FLOOR)	BUSINESS	YES	NO
CHANGE OF OCCUPANCY? (If Remodeling)		<input type="checkbox"/>	<input checked="" type="checkbox"/>
SEPARATED OCCUPANCIES? (Section 6.1.14.1)	2015 LSC (TABLE 6.1.14.1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FIRE BARRIER RATING(S) (Section 8.3)	SEE LIFE SAFETY PLANS		

<b>TYPE(S) OF CONSTRUCTION</b>		CONSTRUCTION TYPE(S) (LSC Chapter 18) (IBC Chapter 6)		LSC 10223 (IBC Chapter 6)	
AREA SEPARATIONS / FIRE WALLS		SEE LIFE SAFETY PLANS			
<b>ACTUAL AREA PER FLOOR</b>		ACTUAL	ALLOWABLE (from above)		
FIRST FLOOR	13,392 GSF	(input)			
SECOND FLOOR	13,392 GSF	(input)			
TOTAL	26,784 GSF	(input)			
<b>EGRESS</b>		YES	NO		
AREAS OF REFUGE REQUIRED		<input type="checkbox"/>	<input checked="" type="checkbox"/>		
ACCESSIBLE MEANS OF EGRESS ("MODE") REQUIRED		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
ELEVATOR REQUIRED AS MEANS OF EGRESS		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
MEANS OF EGRESS CAPACITY (width in inches)		41"			
<b>OCCUPANT LOAD OF BUILDING</b>		ACTUAL AREA	SF/OCCUPANT	OCCUPANTS	
FIRST LEVEL	13,392 GSF				
SECOND LEVEL	13,392 GSF	1/100SF		134	
TOTAL BUILDING OCCUPANT LOAD:				268	
<b>PLUMBING FIXTURES</b>		PROVIDED	RQD	FACTOR	(IBC Ch 29)
TOILETS	6	3 M, 3 F	1/25 (single room)	1/75 (restrooms)	
URINALS	2	--	--	--	
LAVATORIES	6	--	1/25 (single room)	1/200 (patient/employees)	
DRINKING FOUNTAINS	--	--	--	1/500 (restrooms)	
SERVICE SINKS	1	--	--	--	
TOILETS	--	--	--	1 per Patient room	
LAVATORIES	--	--	--	1 per Patient room	
BATHTUB / SHOWER	--	--	--	1/15	
<b>FIRE-RESISTIVE REQUIREMENTS</b>		RATING (HRS)	TEST		
<b>STRUCTURAL FRAME</b>					
COLUMNS	2 HR	ASTM E 119			
GIRDERS	2 HR	ASTM E 119			
TRUSSES	2 HR	ASTM E 119			
<b>BEARING WALLS</b>					
EXTERIOR BEARING WALLS	2 HR	ASTM E 119			
INTERIOR BEARING WALLS	2 HR	ASTM E 119			
<b>NON-BEARING WALLS AND PARTITIONS</b>					
EXTERIOR	0	NA			
INTERIOR	See Life Safety Plans				
<b>FLOOR CONSTRUCTION</b>					
FLOOR/CEILING ASSEMBLY	2 HR	ASTM E 119			
PRIME & SEC. FLOOR BEAMS, JOISTS	1 HR	ASTM E 119			
<b>ROOF CONSTRUCTION</b>					
ROOF/CEILING ASSEMBLY	2 HR	ASTM E 119			
PRIME & SEC. ROOF BEAMS, JOISTS	2 HR	(input)			
<b>OTHER</b>					
SHAFTS AND EXIT PASSAGEWAYS	(input)	(input)			
EXTERIOR DOORS AND WINDOWS	(input)	(input)			
<b>MISCELLANEOUS</b>		YES	NO		
FIRE RESISTIVE CORRIDORS?		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
SMOKE TIGHT CORRIDORS (SMOKE PARTITIONS)		<input checked="" type="checkbox"/>	<input type="checkbox"/>		
INCIDENTAL USE AREA RATING(S)		SEE PLANS			
INTERIOR FINISHES CLASSIFICATION		EXITS X			
		EXIT ACCESS CORRIDORS X			
		OTHER SPACES X			

1 FIRST FLOOR LIFE SAFETY PLAN  
3/32" = 1'-0"

<b>CONSULTANT</b>  15 SUNNEN DR SUITE 104 SAINT LOUIS, MO 63143 PH: 314.645.1132 FAX: 314.645.1173 www.imegcorp.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Anderson Engineering of Minnesota, LLC 13605 1st Avenue North Suite 100 Plymouth, MN 55441 763-412-4000 (o) 763-412-4090 (f) www.ae-mn.com	<b>STAMP</b> I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota. Signature: <i>Tom Olesak</i> Name: Tom Olesak Date: 01/10/2019 License Number: 18157	Office of Construction and Facilities Management  U.S. Department of Veterans Affairs	Drawing Title <b>FIRST FLOOR LIFE SAFETY PLAN</b>	Phase <b>CONSTRUCTION DOCUMENTS</b>	Project Title <b>CONSTRUCT LABORATORY ADDITION</b>	Project Number <b>438-440</b>
				Approved:	<b>FULLY SPRINKLERED</b>	Location <b>SIOUX FALLS, SOUTH DAKOTA</b>	Building Number <b>5</b>
Revisions:	AE PROJECT NUMBER: 14567	Date:	VA FORM 08 - 6231	Issue Date <b>01/11/2019</b>	Checked	Drawn <b>GJB/JMT</b>	Drawing Number <b>GI010</b>

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**INFECTION CONTROL RISK ASSESSMENT (ICRA) BY PROJECT AREA USE AND PHASE**

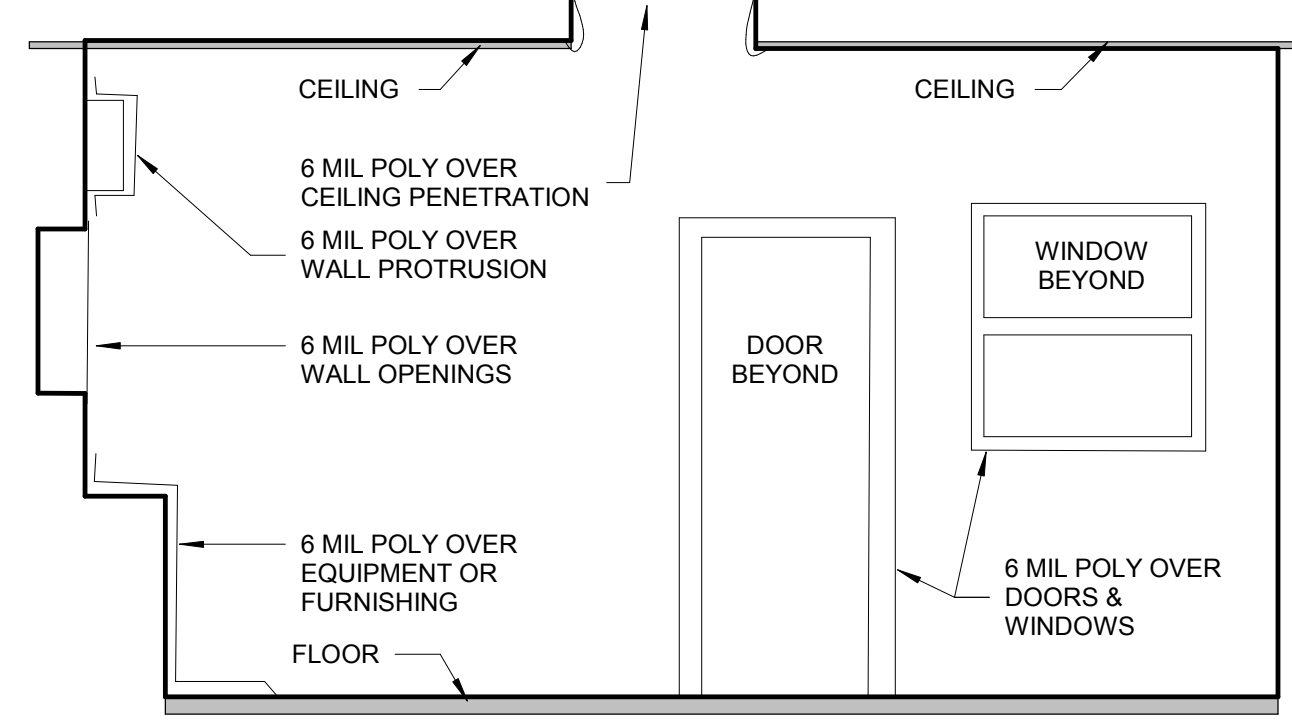
**PHASE 1:**  
CONSTRUCTION PROJECT ACTIVITY TYPE - D  
PATIENT RISK GROUP - MEDIUM RISK  
CONTROL PROCEDURE CLASS - IV

**PHASE 2:**  
CONSTRUCTION PROJECT ACTIVITY TYPE - D  
PATIENT RISK GROUP - MEDIUM RISK  
CONTROL PROCEDURE CLASS - IV

**PHASE 3:**  
CONSTRUCTION PROJECT ACTIVITY TYPE - D  
PATIENT RISK GROUP - MEDIUM RISK  
CONTROL PROCEDURE CLASS - IV

**PHASE 4:**  
CONSTRUCTION PROJECT ACTIVITY TYPE - D  
PATIENT RISK GROUP - MEDIUM RISK  
CONTROL PROCEDURE CLASS - IV

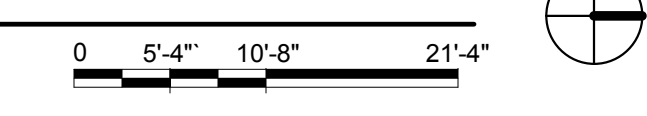
- INFECTION CONTROL GENERAL NOTES**
- SEE SPEC SECTION 01 35 26 SAFETY REQUIREMENTS FOR ADDITIONAL INFORMATION
  - THE INTENT OF INFECTION CONTROL ISOLATION IS TO CONTAIN DUST AND PARTICULATE MATTER TO THE CONSTRUCTION AREA. CONSTRUCTION AREA PERIMETER NEEDS TO BE SEALED COMPLETELY WITH MIN 4 MIL POLY AND DUCT TAPE DURING CLASS II, III, OR IV OPERATIONS.
  - PROVIDE NEGATIVE PRESSURE MONITORS DURING CLASS III OR CLASS IV CONSTRUCTION OPERATIONS. EACH AREA TO BE UNDER NEGATIVE PRESSURE (0.02"WC) DURING THESE OPERATIONS. MONITOR TO MEASURE PRESSURE DIFFERENTIAL BETWEEN CONSTRUCTION AREA AND ADJACENT CORRIDOR OR ROOM AS DIRECTED BY VA.
  - AS CONSTRUCTION PROGRESSES FROM TYPE D TO TYPE C AND THEREON, PROVIDE A REQUEST VIA "INFECTION CONTROL CONSTRUCTION PERMIT" TO THE VA INFECTION CONTROL NURSE. UPON AUTHORIZATION, PROCEED TO NEXT TYPE OF CONSTRUCTION. PROVIDE AT LEAST 10 WORKING DAYS NOTICE FOR EACH PERMIT.
  - CONSTRUCT IC (INFECTION CONTROL) CONSTRUCTION BARRIER FROM FLOOR TO DECK/FLOOR ABOVE. EXCEPTION: IF BARRIER IS ADJACENT SMOKE, FIRE, OR EXISTING WALL CONSTRUCTION WHICH WILL NOT BE DEMOLISHED AND TERMINATES TO FLOOR OR DECK ABOVE, THEN CONSTRUCT IC BARRIER FROM FLOOR TO ABOVE CORRIDOR CEILING WITH 4 MIL POLY BEING SEALED ON ALL EDGES: FLOOR, TOP OF WALL, SIDES, AND ALL PENETRATIONS. SEE DETAILS THIS SHEET. TAPE, MUD, SAND JOINTS AND PAINT ON NON-CONSTRUCTION SIDE OF BARRIER.
  - GENERAL CONTRACTOR SHALL PROVIDE NEW CONSTRUCTION ACCESS DOORS AT ALL BARRIERS. MAINTAIN ALL INFECTION CONTROL STANDARDS. CONTROL BARRIERS ARE TO BE INSTALLED AND REMOVED ONLY BEFORE 7:00 A.M. AND AFTER 8:00 P.M.
  - DURING CONSTRUCTION OPERATIONS IN EACH ENCLOSED AREA PROVIDE NEGATIVE PRESSURE MONITORS. MINIMUM (1) ONE IN AREAS LESS THAN 1000 SF, (2) TWO MINIMUM IN AREAS BETWEEN 1000 SF AND 5000 SF, AND (3) THREE FOR AREAS BETWEEN 5000 SF AND 10000 SF. EGRESS IS TO BE MAINTAINED AT ALL TIMES.
  - THE CONTRACTOR SHALL PROVIDE ENOUGH NEGATIVE AIR MACHINES TO COMPLETELY EXCHANGE THE REGULATED AREA AIR VOLUME (4) FOUR ACTUAL TIMES PER HOUR. THE COMPETENT PERSON SHALL DETERMINE THE NUMBER OF UNITS NEEDED FOR EACH REGULATED AREA BY DIVIDING THE CUBIC FEET IN THE REGULATED AREA BY (15) FIFTEEN AND THEN DIVIDING THAT RESULT BY THE ACTUAL CUBIC FEET PER MINUTE (CFM) FOR EACH UNIT TO DETERMINE THE NUMBER OF UNITS NEEDED TO EFFECT (4) FOUR AIR CHANGES PER HOUR. PROVIDE A STANDBY UNIT IN THE EVENT OF MACHINE FAILURE AND/OR EMERGENCY IN AN ADJACENT AREA.
  - PRIOR TO ANY REMOVAL OF SMOKE BARRIER FIRE RATED WALLS, CONSTRUCT NEW SMOKE BARRIER/APPROPRIATE FIRE RATED WALLS PER NEW PLANS OR CONSTRUCT INFECTION CONTROL BARRIER TO ACT AS SMOKE BARRIER.



NOTES:  
1. ALL CORNERS TO FORM 90 ANGLE WITH NO RADIUS  
2. SEAL ALL SIDES OF POLY WITH DUCT TAPE  
3. SEAL ALL CRACKS WITH DUCT TAPE.

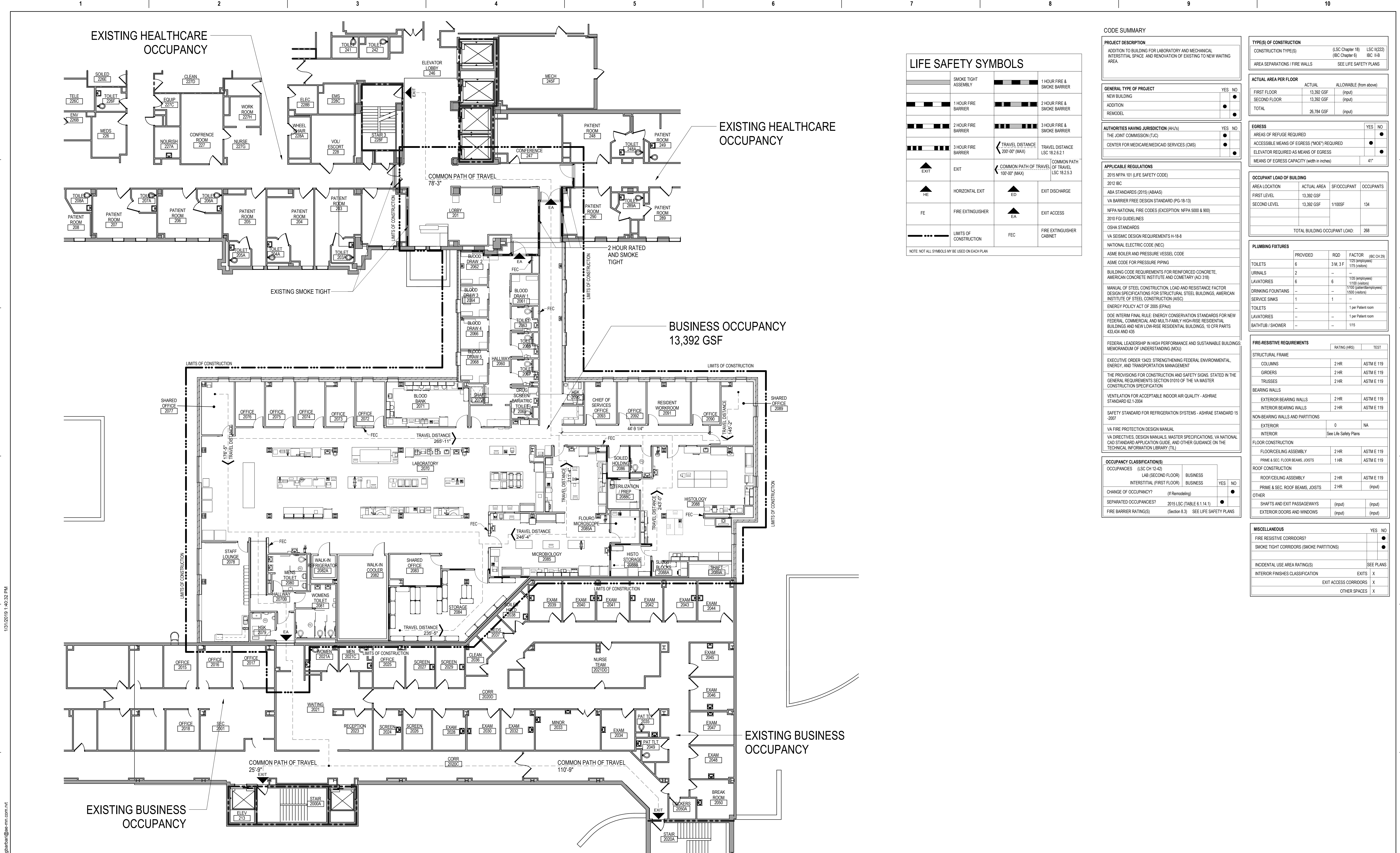
**CRITICAL BARRIER PREPARATION / INSTALLATION**

**1 SECOND FLOOR LIFE SAFETY PLAN**  
3/32" = 1'-0"



Revisions: Date:	<b>CONSULTANT</b>  15 SUNNEN DR SUITE 104 SAINT LOUIS, MO 63143 PH: 314.645.1132 FAX: 314.645.1173 www.imegcorp.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Anderson Engineering of Minnesota, LLC 13605 1st Avenue North Suite 100 Plymouth, MN 55441 763-412-4000 (f) 763-412-4090 (t) www.ae-mn.com	<b>STAMP</b> I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota. Signature: <i>[Signature]</i> Name: Tom Olesak Date: 01/10/2019 License Number: 18157	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>SECOND FLOOR INFECTION                  CONTROL &amp; PHASING PLAN</b> Approved:	Phase <b>CONSTRUCTION                  DOCUMENTS</b>	Project Title <b>CONSTRUCT LABORATORY                  ADDITION</b>	Project Number <b>438-440</b> Building Number <b>5</b> Drawing Number <b>GC012</b>
	Fully Sprinklered <b>FULLY SPRINKLERED</b>	Location <b>SIOUX FALLS, SOUTH DAKOTA</b> Issue Date <b>01/11/2019</b> Checked Drawn	Location <b>SIOUX FALLS, SOUTH DAKOTA</b> Issue Date <b>01/11/2019</b> Checked Drawn	Project Number <b>438-440</b> Building Number <b>5</b> Drawing Number <b>GC012</b>				

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### LIFE SAFETY SYMBOLS

	SMOKE TIGHT ASSEMBLY		1 HOUR FIRE & SMOKE BARRIER
	1 HOUR FIRE BARRIER		2 HOUR FIRE & SMOKE BARRIER
	2 HOUR FIRE BARRIER		3 HOUR FIRE & SMOKE BARRIER
	3 HOUR FIRE BARRIER		TRAVEL DISTANCE LSC 18.2.6.2.1
	EXIT		COMMON PATH OF TRAVEL LSC 18.2.6.3
	HORIZONTAL EXIT		EXIT DISCHARGE
	FIRE EXTINGUISHER		EXIT ACCESS
	LIMITS OF CONSTRUCTION		FIRE EXTINGUISHER CABINET

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

### CODE SUMMARY

**PROJECT DESCRIPTION**  
 ADDITION TO BUILDING FOR LABORATORY AND MECHANICAL INTERSTITIAL SPACE AND RENOVATION OF EXISTING TO NEW WAITING AREA.

**GENERAL TYPE OF PROJECT**

NEW BUILDING	YES	NO
ADDITION	<input checked="" type="checkbox"/>	<input type="checkbox"/>
REMODEL	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**AUTHORITIES HAVING JURISDICTION (AHJ's)**

THE JOINT COMMISSION (TJC)	YES	NO
CENTER FOR MEDICARE/MEDICAID SERVICES (CMS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**APPLICABLE REGULATIONS**

- 2015 NFPA 101 (LIFE SAFETY CODE)
- 2012 IBC
- ABA STANDARDS (2015) (ABAAS)
- VA BARRIER FREE DESIGN STANDARD (PG-18-13)
- NFPA NATIONAL FIRE CODES (EXCEPTION: NFPA 5000 & 900)
- 2010 FGI GUIDELINES
- OSHA STANDARDS
- VA SEISMIC DESIGN REQUIREMENTS H-18-8
- NATIONAL ELECTRIC CODE (NEC)
- ASME BOILER AND PRESSURE VESSEL CODE
- ASME CODE FOR PRESSURE PIPING
- BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AMERICAN CONCRETE INSTITUTE AND CONCRETE (ACI 318)
- MANUAL OF STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
- ENERGY POLICY ACT OF 2005 (EPAct)
- DOE INTERIM FINAL RULE: ENERGY CONSERVATION STANDARDS FOR NEW FEDERAL, COMMERCIAL AND MULTI-FAMILY HIGH-RISE RESIDENTIAL BUILDINGS AND NEW LOW-RISE RESIDENTIAL BUILDINGS, 10 CFR PARTS 431.434 AND 435
- FEDERAL LEADERSHIP IN HIGH PERFORMANCE AND SUSTAINABLE BUILDINGS MEMORANDUM OF UNDERSTANDING (MOU)
- EXECUTIVE ORDER 13423: STRENGTHENING FEDERAL ENVIRONMENTAL, ENERGY, AND TRANSPORTATION MANAGEMENT
- THE PROVISIONS FOR CONSTRUCTION AND SAFETY SIGNS, STATED IN THE GENERAL REQUIREMENTS SECTION 01010 OF THE VA MASTER CONSTRUCTION SPECIFICATION
- VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY - ASHRAE STANDARD 62.1-2004
- SAFETY STANDARD FOR REFRIGERATION SYSTEMS - ASHRAE STANDARD 15-2007
- VA FIRE PROTECTION DESIGN MANUAL
- VA DIRECTIVES, DESIGN MANUALS, MASTER SPECIFICATIONS, VA NATIONAL CAD STANDARD APPLICATION GUIDE, AND OTHER GUIDANCE ON THE TECHNICAL INFORMATION LIBRARY (TIL)

**OCCUPANCY CLASSIFICATION(S)**

OCCUPANCIES (LSC Ch 12.42)	LAB (SECOND FLOOR)	BUSINESS	YES	NO
INTERSTITIAL (FIRST FLOOR)	BUSINESS		<input checked="" type="checkbox"/>	<input type="checkbox"/>

CHANGE OF OCCUPANCY? (if Remodeling)

SEPARATED OCCUPANCIES? 2015 LSC (TABLE 6.1.1.4.1)

FIRE BARRIER RATING(S) (Section 8.3) SEE LIFE SAFETY PLANS

**TYPE(S) OF CONSTRUCTION**

ADDITION TO BUILDING FOR LABORATORY AND MECHANICAL INTERSTITIAL SPACE AND RENOVATION OF EXISTING TO NEW WAITING AREA	(LSC Chapter 18)	LSC 18.2(2)
CONSTRUCTION TYPE(S)	(IBC Chapter 6)	IBC 1-8
AREA SEPARATIONS / FIRE WALLS		SEE LIFE SAFETY PLANS

**ACTUAL AREA PER FLOOR**

FIRST FLOOR	13,392 GSF	(input)
SECOND FLOOR	13,392 GSF	(input)
TOTAL	26,784 GSF	(input)

**EGRESS**

AREAS OF REFUGE REQUIRED	YES	NO
ACCESSIBLE MEANS OF EGRESS ("MODE") REQUIRED	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ELEVATOR REQUIRED AS MEANS OF EGRESS	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MEANS OF EGRESS CAPACITY (width in inches)		41"

**OCCUPANT LOAD OF BUILDING**

AREA LOCATION	ACTUAL AREA	SF/OCCUPANT	OCCUPANTS
FIRST LEVEL	13,392 GSF		
SECOND LEVEL	13,392 GSF	1/100SF	134
TOTAL BUILDING OCCUPANT LOAD:			268

**PLUMBING FIXTURES**

TOILETS	PROVIDED	RDD	FACTOR	(IBC Ch 29)
URINALS	6	3 M, 3 F	1/75 (washrooms)	1/75 (washrooms)
LAVATORIES	2	--	--	--
DRINKING FOUNTAINS	6	6	1/30 (employee)	1/30 (washrooms)
SERVICE SINKS	--	--	--	1/100 (patient/employee)
TOILETS	1	1	--	1/60 (washrooms)
LAVATORIES	--	--	--	1 per Patient room
BATH/TUB / SHOWER	--	--	--	1 per Patient room

**FIRE-RESISTIVE REQUIREMENTS**

	RATING (HRS)	TEST
STRUCTURAL FRAME		
COLUMNS	2 HR	ASTM E 119
GIRDERS	2 HR	ASTM E 119
TRUSSES	2 HR	ASTM E 119
BEARING WALLS		
EXTERIOR BEARING WALLS	2 HR	ASTM E 119
INTERIOR BEARING WALLS	2 HR	ASTM E 119
NON-BEARING WALLS AND PARTITIONS		
EXTERIOR	0	NA
INTERIOR		See Life Safety Plans
FLOOR CONSTRUCTION		
FLOOR/CEILING ASSEMBLY	2 HR	ASTM E 119
PRIME & SEC. FLOOR BEAMS, JOISTS	1 HR	ASTM E 119
ROOF CONSTRUCTION		
ROOF/CEILING ASSEMBLY	2 HR	ASTM E 119
PRIME & SEC. ROOF BEAMS, JOISTS	2 HR	(input)
OTHER		
SHAFTS AND EXIT PASSAGEWAYS	(input)	(input)
EXTERIOR DOORS AND WINDOWS	(input)	(input)

**MISCELLANEOUS**

	YES	NO
FIRE RESISTIVE CORRIDORS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SMOKE TIGHT CORRIDORS (SMOKE PARTITIONS)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
INCIDENTAL USE AREA RATING(S)		SEE PLANS
INTERIOR FINISHES CLASSIFICATION	EXITS	X
	EXIT ACCESS CORRIDORS	X
	OTHER SPACES	X

1 SECOND FLOOR LIFE SAFETY PLAN  
 3/32" = 1'-0"

<b>CONSULTANT</b>  15 SUNNEN DR SUITE 104 SAINT LOUIS, MO 63143 PH: 314.645.1132 FAX: 314.645.1173 www.imegcorp.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Anderson Engineering of Minnesota, LLC 13605 1st Avenue North Suite 100 Plymouth, MN 55441 763-412-4000 (o) 763-412-4090 (f) www.ae-mn.com	<b>STAMP</b> I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota. Signature: <i>Tom Olesak</i> Name: Tom Olesak Date: 01/10/2019 License Number: 18157	Office of Construction and Facilities Management  U.S. Department of Veterans Affairs	Drawing Title <b>SECOND FLOOR LIFE SAFETY PLAN</b>	Phase <b>CONSTRUCTION DOCUMENTS</b>	Project Title <b>CONSTRUCT LABORATORY ADDITION</b>	Project Number <b>438-440</b>
				Approved:	FULLY SPRINKLERED	Location <b>SIOUX FALLS, SOUTH DAKOTA</b>	Building Number <b>5</b>
Revisions:	AE PROJECT NUMBER: 14567			Issue Date <b>01/11/2019</b>	Checked <input checked="" type="checkbox"/>	Drawn <b>GJB/JMT</b>	Drawing Number <b>G1020</b>

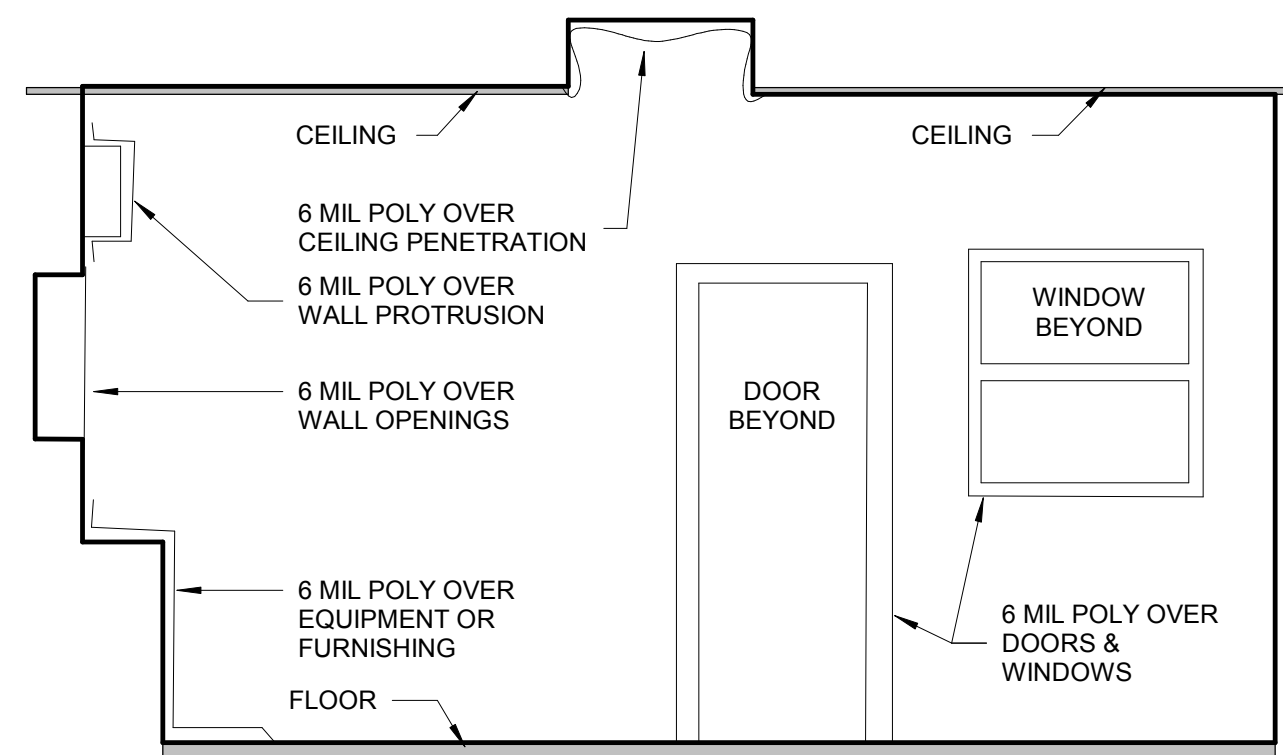
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 VA FORM 08 - 6231

**INFECTION CONTROL GENERAL NOTES**

- SEE SPEC SECTION 01 35 26 SAFETY REQUIREMENTS FOR ADDITIONAL INFORMATION
- THE INTENT OF INFECTION CONTROL ISOLATION IS TO CONTAIN DUST AND PARTICULATE MATTER TO THE CONSTRUCTION AREA. CONSTRUCTION AREA PERIMETER NEEDS TO BE SEALED COMPLETELY WITH MIN 4 MIL POLY AND DUCT TAPE DURING CLASS II, III, OR IV OPERATIONS.
- PROVIDE NEGATIVE PRESSURE MONITORS DURING CLASS III OR CLASS IV CONSTRUCTION OPERATIONS. EACH AREA TO BE UNDER NEGATIVE PRESSURE (0.02"WC) DURING THESE OPERATIONS. MONITOR TO MEASURE PRESSURE DIFFERENTIAL BETWEEN CONSTRUCTION AREA AND ADJACENT CORRIDOR OR ROOM AS DIRECTED BY VA.
- AS CONSTRUCTION PROGRESSES, FROM TYPE D TO TYPE C AND THEREON, PROVIDE A REQUEST VIA "INFECTION CONTROL CONSTRUCTION PERMIT" TO THE VA INFECTION CONTROL NURSE. UPON AUTHORIZATION, PROCEED TO NEXT TYPE OF CONSTRUCTION. PROVIDE AT LEAST 10 WORKING DAYS NOTICE FOR EACH PERMIT.
- CONSTRUCT IC (INFECTION CONTROL) CONSTRUCTION BARRIER FROM FLOOR TO DECK/FLOOR ABOVE. EXCEPTION, IF BARRIER IS ADJACENT SMOKE, FIRE, OR EXISTING WALL CONSTRUCTION WHICH WILL NOT BE DEMOLISHED AND TERMINATES TO FLOOR OR DECK ABOVE, THEN CONSTRUCT IC BARRIER FROM FLOOR TO ABOVE CORRIDOR CEILING WITH 4 MIL POLY BEING SEALED ON ALL EDGES: FLOOR, TOP OF WALL, SIDES, AND ALL PENETRATIONS. SEE DETAILS THIS SHEET. TAPE, MUD, SAND JOINTS AND PAINT ON NON-CONSTRUCTION SIDE OF BARRIER.
- GENERAL CONTRACTOR SHALL PROVIDE NEW CONSTRUCTION ACCESS DOORS AT ALL BARRIERS. MAINTAIN ALL INFECTION CONTROL STANDARDS. CONTROL BARRIERS ARE TO BE INSTALLED AND REMOVED ONLY BEFORE 7:00 A.M. AND AFTER 8:00 P.M.
- DURING CONSTRUCTION OPERATIONS IN EACH ENCLOSED AREA PROVIDE NEGATIVE PRESSURE MONITORS, MINIMUM (1) ONE IN AREAS LESS THAN 1000 SF, (2) TWO MINIMUM IN AREAS BETWEEN 1000 SF AND 5000 SF, AND (3) THREE FOR AREAS BETWEEN 5000 SF AND 10000 SF. EGRESS IS TO BE MAINTAINED AT ALL TIMES.
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- PRIOR TO ANY REMOVAL OF SMOKE BARRIER FIRE RATED WALLS, CONSTRUCT NEW SMOKE BARRIER/APPROPRIATE FIRE RATED WALLS PER NEW PLANS OR CONSTRUCT INFECTION CONTROL BARRIER TO ACT AS SMOKE BARRIER.

**INFECTION CONTROL RISK ASSESSMENT (ICRA) BY PROJECT AREA USE AND PHASE**

- PHASE 1:**  
CONSTRUCTION PROJECT ACTIVITY TYPE - D  
PATIENT RISK GROUP - MEDIUM RISK  
CONTROL PROCEDURE CLASS - IV
- PHASE 2:**  
CONSTRUCTION PROJECT ACTIVITY TYPE - D  
PATIENT RISK GROUP - MEDIUM RISK  
CONTROL PROCEDURE CLASS - IV
- PHASE 3:**  
CONSTRUCTION PROJECT ACTIVITY TYPE - D  
PATIENT RISK GROUP - MEDIUM RISK  
CONTROL PROCEDURE CLASS - IV
- PHASE 4:**  
CONSTRUCTION PROJECT ACTIVITY TYPE - D  
PATIENT RISK GROUP - MEDIUM RISK  
CONTROL PROCEDURE CLASS - IV

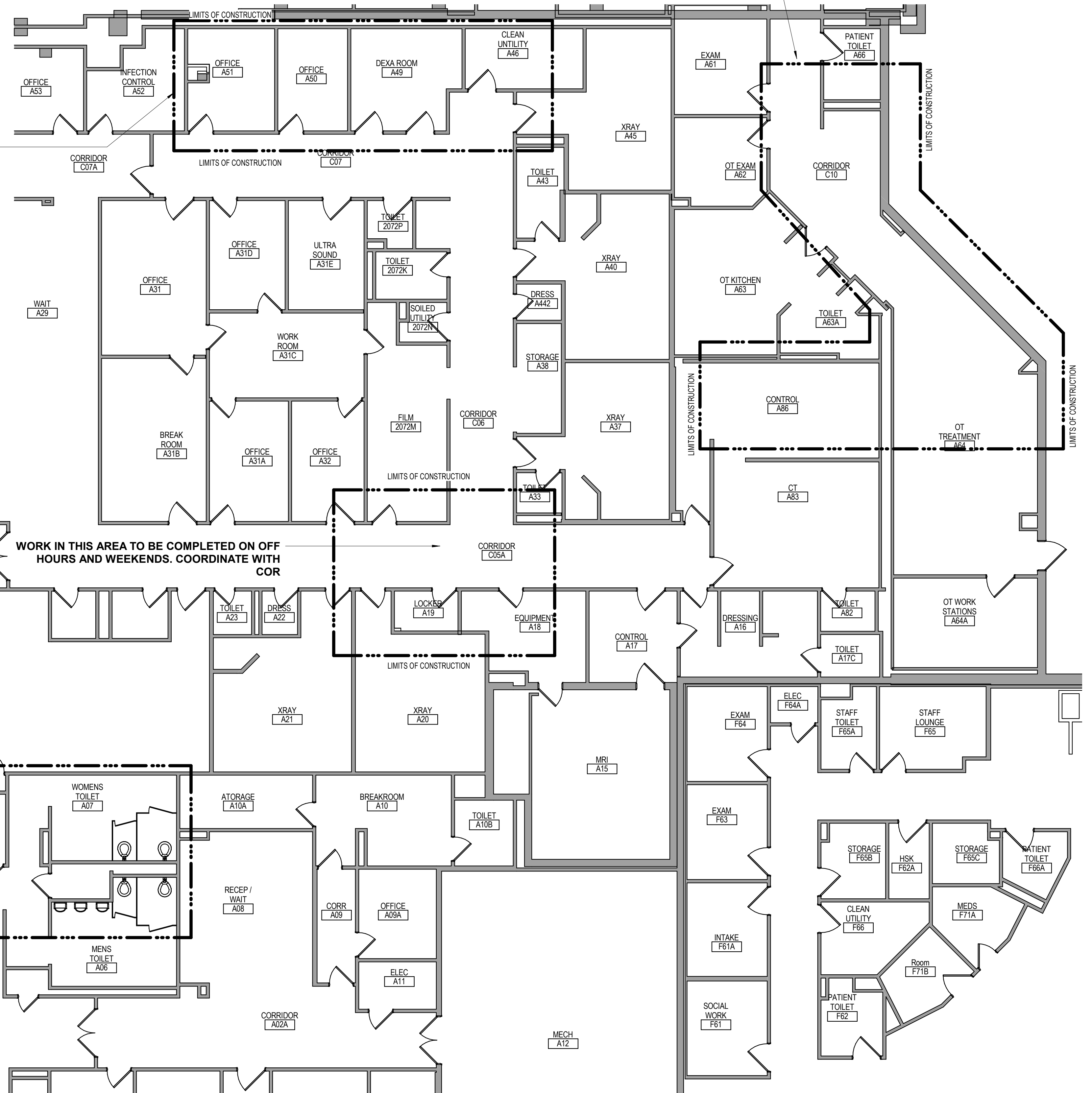


- NOTES:  
1. ALL CORNERS TO FORM 90 ANGLE WITH NO RADIUS  
2. SEAL ALL SIDES OF POLY WITH DUCT TAPE  
3. SEAL ALL CRACKS WITH DUCT TAPE

**WORK IN THIS AREA TO BE COMPLETED ON OFF HOURS AND WEEKENDS, INCLUDING SKYLIGHT REMOVAL AND PATCHING. MINIMUM 3 WEEK NOTICE NEEDS TO BE GIVEN TO COR BEFORE WORK IN THIS AREA TO START. COORDINATE WITH COR**

**WORK IN THIS AREA TO BE COMPLETED ON OFF HOURS AND WEEKENDS. COORDINATE WITH COR**

**WORK IN THIS AREA TO BE COMPLETED ON OFF HOURS AND WEEKENDS. COORDINATE WITH COR**



**1 GROUND FLOOR PLAN**  
1/8" = 1'-0"

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Revisions:	Date:

**CONSULTANT**

**IMEG**

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**STAMP**

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of Minnesota.

Signature: *[Signature]*

Name: Tom Olesak  
Date: 01/10/2019  
License Number: 18157

Office of Construction and Facilities Management

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**GROUND FLOOR INFECTION CONTROL & PHASING PLAN**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

FULLY SPRINKLERED

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

Checked  
\_\_\_\_\_  
Drawn  
GJB

Project Number  
438-440

Building Number  
5

Drawing Number  
GC010



**INFECTION CONTROL RISK ASSESSMENT (ICRA) BY PROJECT AREA USE AND PHASE**

**PHASE 1:**  
CONSTRUCTION PROJECT ACTIVITY TYPE - D  
PATIENT RISK GROUP - MEDIUM RISK  
CONTROL PROCEDURE CLASS - IV

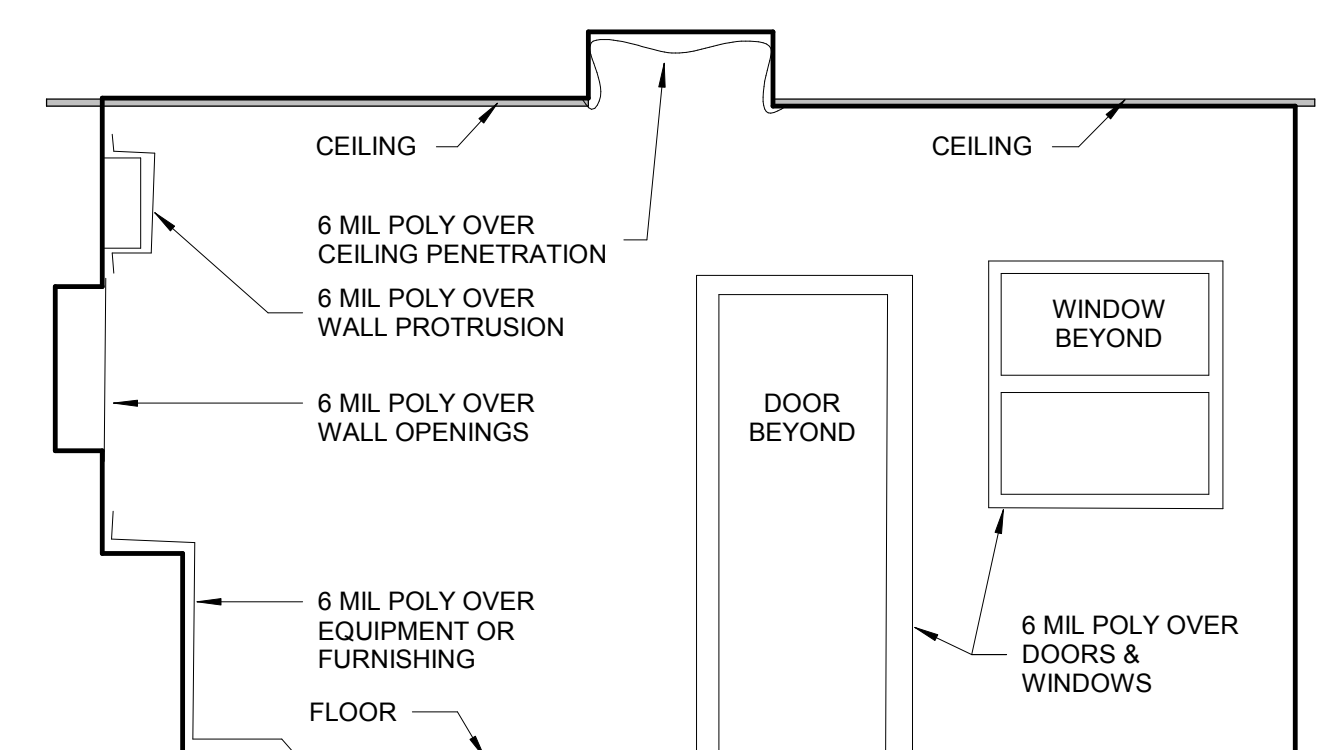
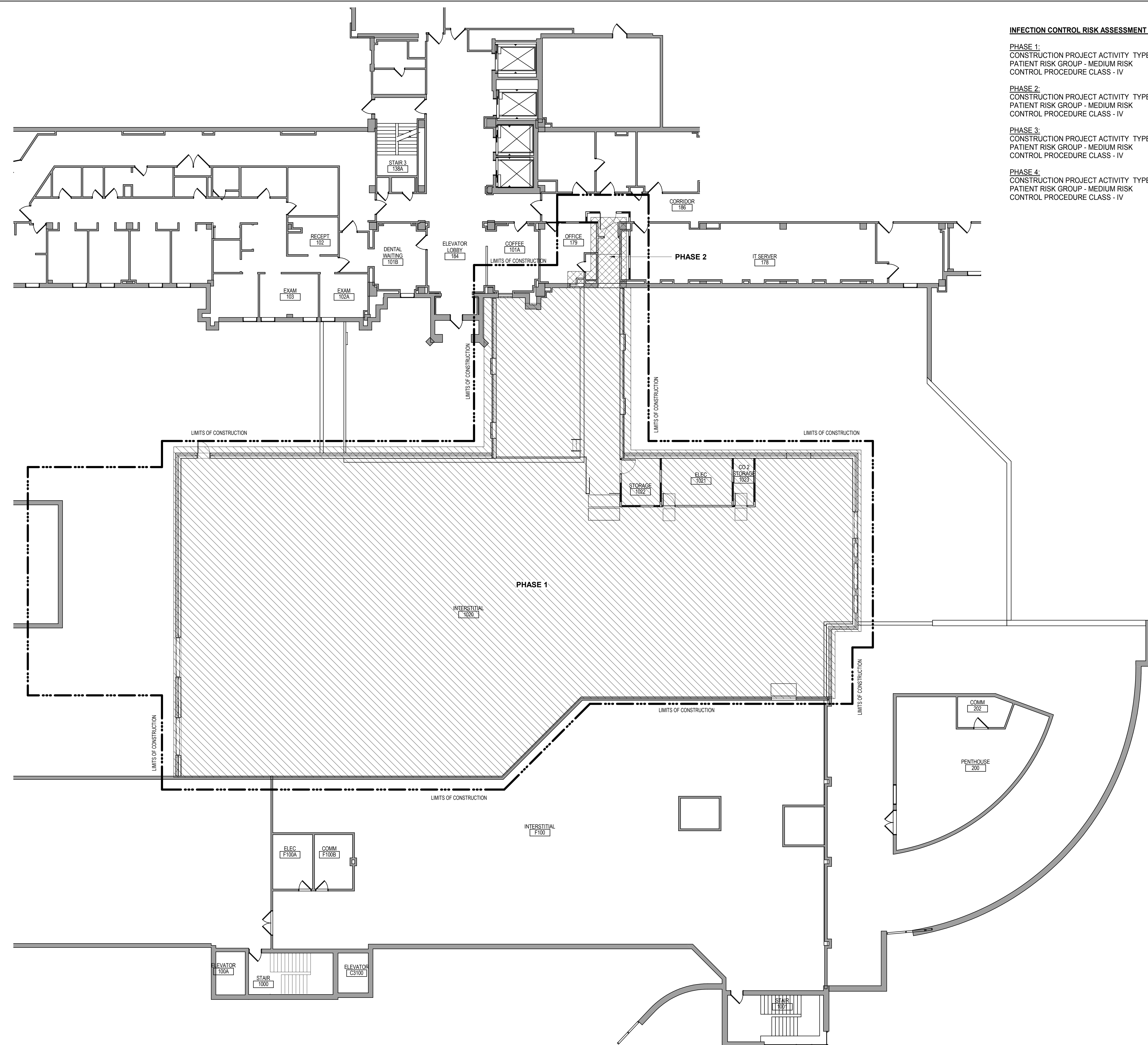
**PHASE 2:**  
CONSTRUCTION PROJECT ACTIVITY TYPE - D  
PATIENT RISK GROUP - MEDIUM RISK  
CONTROL PROCEDURE CLASS - IV

**PHASE 3:**  
CONSTRUCTION PROJECT ACTIVITY TYPE - D  
PATIENT RISK GROUP - MEDIUM RISK  
CONTROL PROCEDURE CLASS - IV

**PHASE 4:**  
CONSTRUCTION PROJECT ACTIVITY TYPE - D  
PATIENT RISK GROUP - MEDIUM RISK  
CONTROL PROCEDURE CLASS - IV

**INFECTION CONTROL GENERAL NOTES**

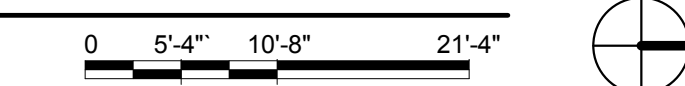
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- NOTES:
- ALL CORNERS TO FORM 90 ANGLE WITH NO RADIUS
  - SEAL ALL SIDES OF POLY WITH DUCT TAPE
  - SEAL ALL CRACKS WITH DUCT TAPE

**CRITICAL BARRIER PREPARATION / INSTALLATION**

**1 FIRST FLOOR LIFE SAFETY PLAN**  
3/32" = 1'-0"



Revisions:	Date:

**CONSULTANT**

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AE PROJECT NUMBER: 14567

**STAMP**

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of Minnesota.

Signature: *[Signature]*

Name: Tom Olesak  
Date: 01/10/2019  
License Number: 18157

Office of Construction and Facilities Management

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**FIRST FLOOR INFECTION CONTROL & PHASING PLAN**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

FULLY SPRINKLERED

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

Checked

Drawn  
GJB

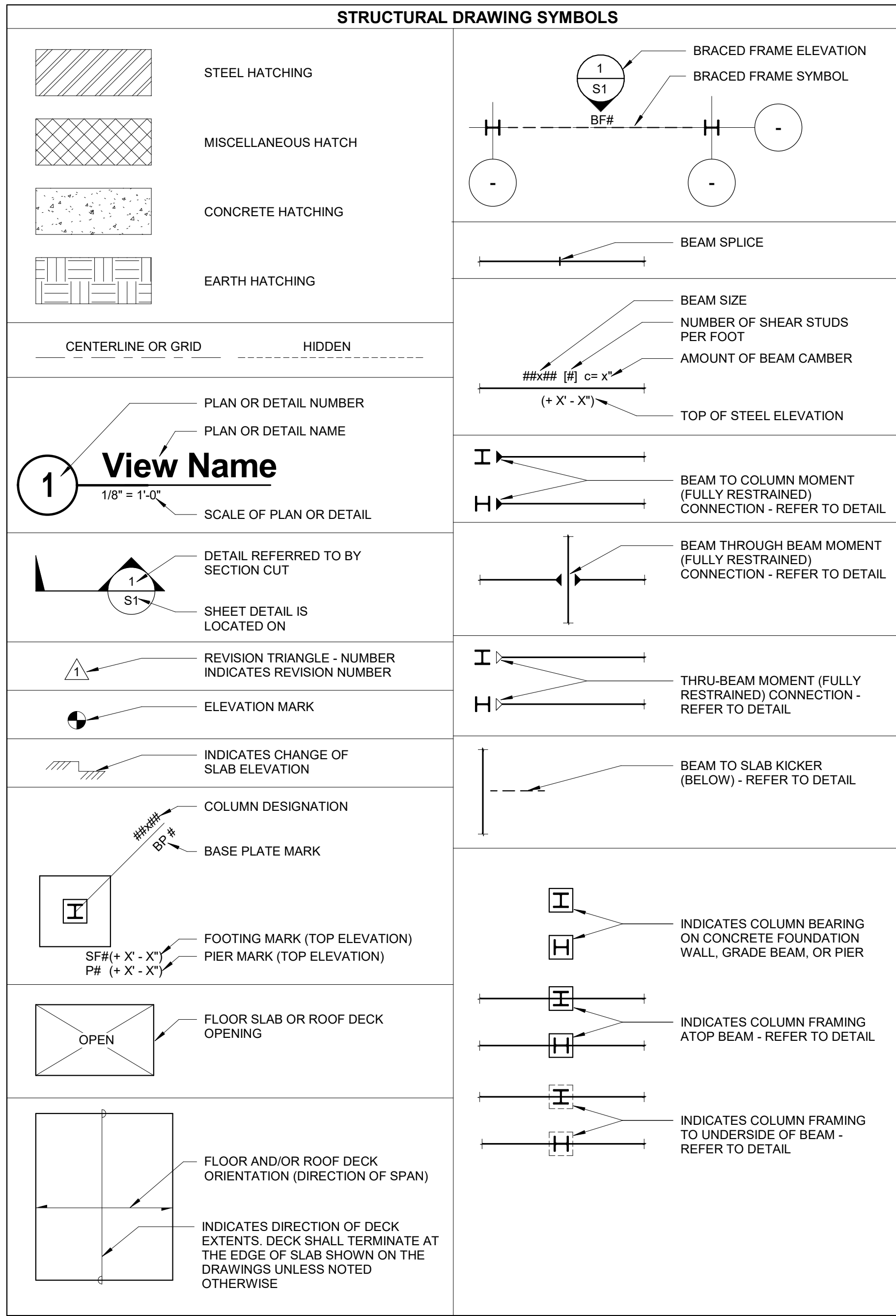
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5

Drawing Number  
GC011

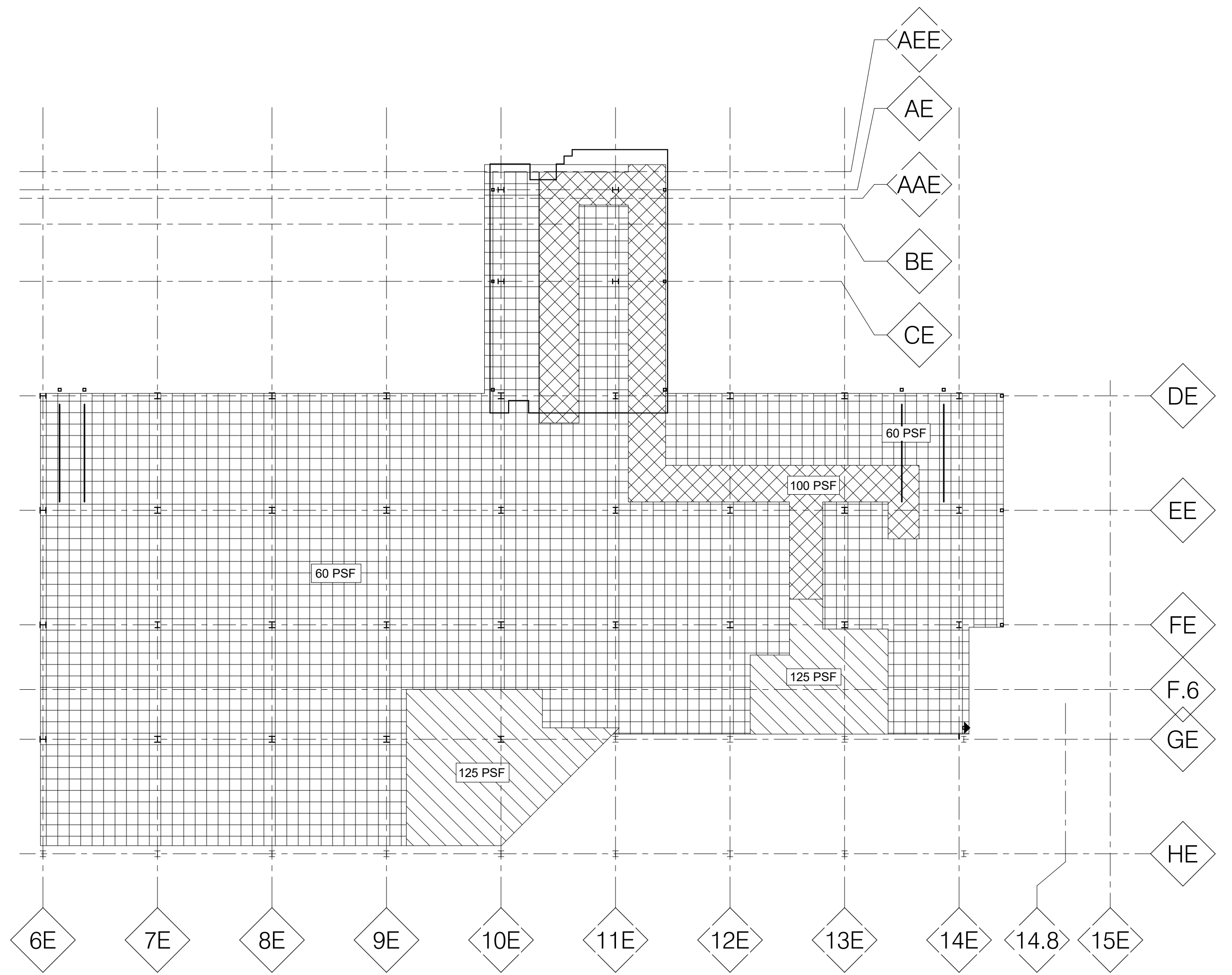
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### STRUCTURAL ABBREVIATIONS LIST

#	NUMBER	KSF	KIPS PER SQUARE FOOT
@	AT	L	LENGTH
°	DEGREES	LB	POUND
Ø	DIAMETER	LF	LINEAR FOOT
AHU	AIR-HANDLING UNIT	LL	LIVE LOAD
APPROX	APPROXIMATE -LY	LLH	LONG LEG HORIZONTAL
ARCH	ARCHITECT -URE, -URAL	LLV	LONG LEG VERTICAL
B.O.	BOTTOM OF	LSH	LONG SIDE HORIZONTAL
B.F.	BEAM FLANGE WIDTH	LSV	LONG SIDE VERTICAL
BM	BEAM	LONG	LONGITUDINAL
BP	BASE PLATE	ME	MECHANICAL/ELECTRICAL
BRG	BEARING	MAX	MAXIMUM
CFSF	COLD FORM STEEL FRAMING	MECH	MECHANICAL
CJ	CONTROL JOINT	MEZZ	MEZZANINE
CL	CLEAR	MIN	MINIMUM
CMU	CONCRETE MASONRY UNIT	MISC	MISCELLANEOUS
CONC	CONCRETE	MK	MARK
CONST	CONSTRUCTION	N	NORTH
CONT	CONTINUOUS	N	LENGTH (AS PLATES)
D	DEPTH	NT	NOT IN CONTRACT
DBL	DOUBLE	NO	NUMBER
DEG	DEGREE	NTS	NOT TO SCALE
DIM	DIMENSION	OC	ON CENTER
DL	DEAD LOAD	OPNG	OPENING
DTL	DETAIL	OPP	OPPOSITE
DWG	DRAWING	PAF	POWER ACTUATED FASTENER
EA	EACH	PC	PRECAST
EF	EACH FACE	PCF	POUNDS PER CUBIC FOOT
EJ	EXPANSION JOINT	PL	PLATE
EL	ELEVATION	PSF	POUNDS PER SQUARE FOOT
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EMBED	EMBEDDED	PVC	POLYVINYL CHLORIDE
EOD	EDGE OF DECK	R	RADIUS
EOS	EDGE OF SLAB	RD	ROOF DRAIN
EQ	EQUAL	REINF	REINFORCING, -MENT, -ED
EQUIP	EQUIPMENT	REQD	REQUIRED
EW	EACH WAY	REF	REFERENCE, REFER TO
EXIST. (E)	EXISTING	RTU	ROOF-TOP UNIT
EXP	EXPANSION	SC	TC WITH CLASS A FAYING SURFACE
EXT	EXTERIOR	SCHED	SCHEDULE
F	FOUNDATION	SIM	SIMILAR
FDN	FOUNDATION	SL	SNOW LOAD
FIN	FINISHED	SP	SPACE(S)
FL	FLOOR	SPEC	SPECIFICATION(S)
FT	FOOT	SPEC'D	SPECIFIED
FTG	FOOTING	SQ	SQUARE
Fy	YIELD STRESS	STD	STANDARD
GA	GAGE OR GAUGE	STIFF	STIFFENER
GALV	GALVANIZED	T.O.	TOP OF
GB	GRADE BEAM	TC	PRE-TENSIONED BOLT
GC	GENERAL CONTRACTOR	TEMP	TEMPERATURE
GYP	GYPHUM	tf	BEAM FLANGE THICKNESS
HDS	HOT-DIPPED GALVANIZED	TRANS	TRANSVERSE
HORIZ	HORIZONTAL	TYP	TYPICAL
HVAC	HEATING, VENTILATION, AIR CONDITIONING	UNO	UNLESS NOTED OTHERWISE
HWS	HEADED, WELDED STUD	VERT	VERTICAL
IN	INCH	VIF	VERIFY IN FIELD
INT	INTERIOR	VWA	VERIFY WITH ARCHITECTURAL DRAWINGS
JST	JOIST	WP	WORKING POINT
JT	JOINT	WT	WEIGHT
K, KIP	KILOPOUND (1,000 POUNDS)	WWR	WELDED WIRE REINFORCING
KO	KNOCK-OUT	YD	YARD



1 SECOND FLOOR LIVE LOAD PLAN  
1/16" = 1'-0"

Revisions:	Date:

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AE PROJECT NUMBER: 14564

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Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title  
SYMBOLS AND ABBREVIATIONS

Approved:

Phase  
CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title  
CONSTRUCT LABORATORY ADDITION

Location  
SIOUX FALLS, SOUTH DAKOTA

Issue Date  
01/11/2019

Checked  
MICALB

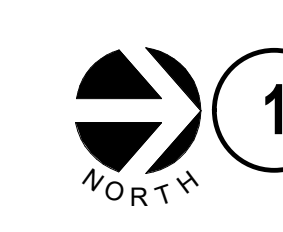
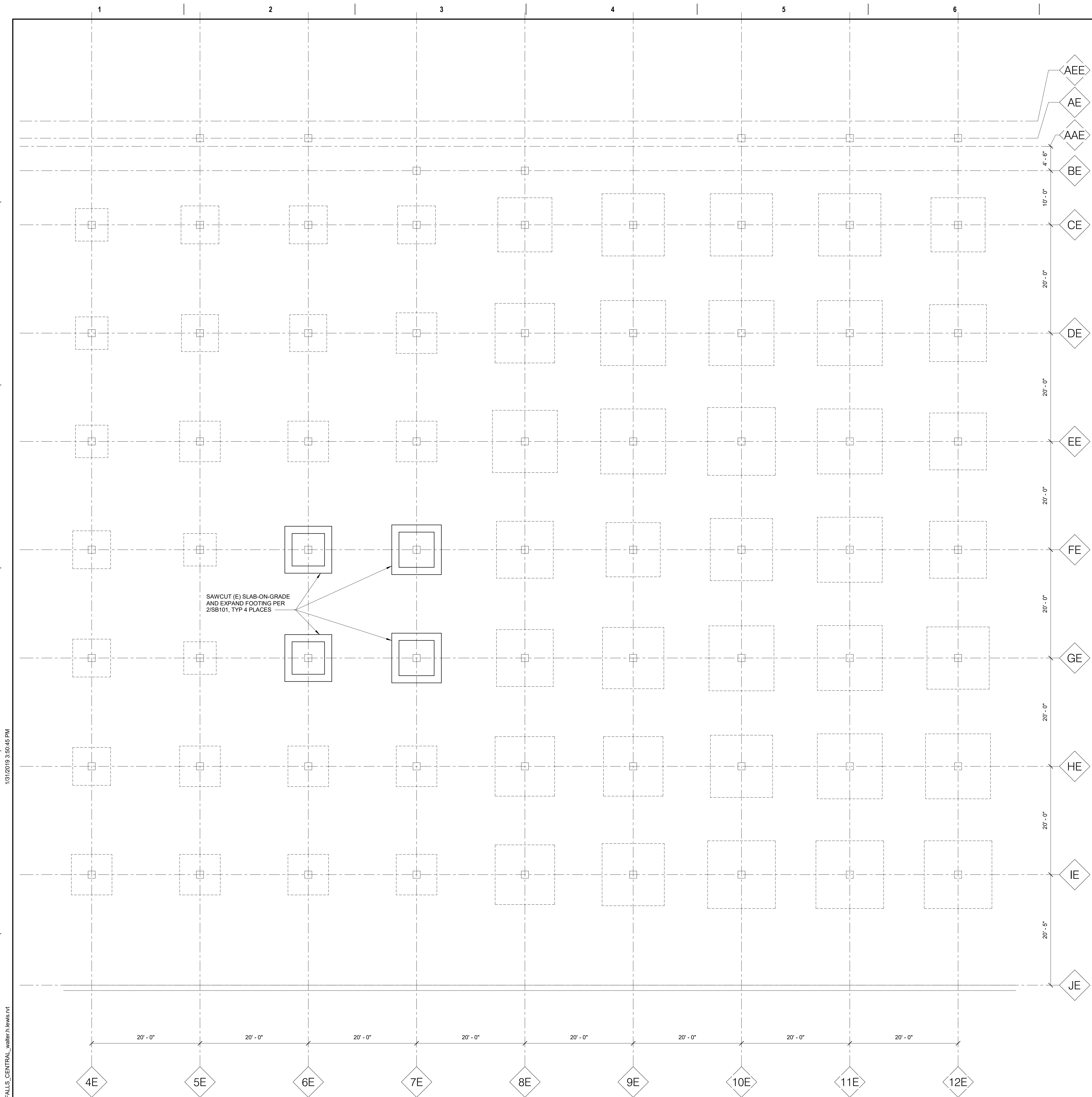
Drawn  
SUJPAD

Project Number  
438-440

Building Number  
5

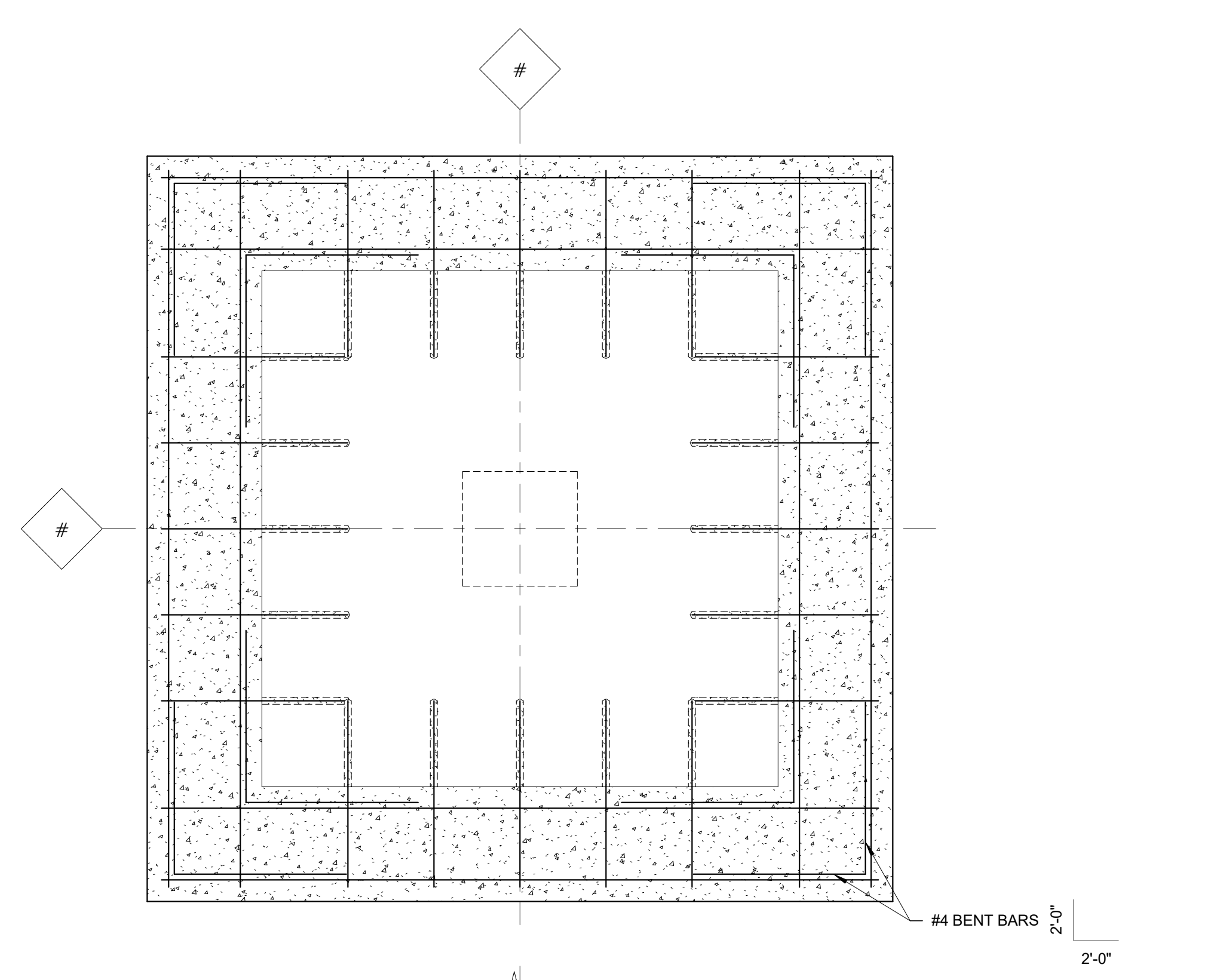
Drawing Number  
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### 1 EXISTING FOUNDATION PLAN

- 1/8" = 1'-0"  
NOTES:
- (E) GROUND FLOOR SLAB-ON-GRADE EL ( 1498' - 11 3/4", VIF ).
  - ANY DEMOLITION AND CONSTRUCTION WORK INSIDE THE EXISTING BUILDING SHALL BE CONDUCTED DURING OFF-WORK HOURS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.



### 2 FOOTING EXPANSION DETAIL

- 3/4" = 1'-0"  
NOTES:
- SAWCUT (E) CONCRETE SLAB AND EXCAVATE TO THE EXTENTS SHOWN FOR EXPANSION. REPLACE CONCRETE SLAB AS SHOWN AFTER FOOTING WORK IS COMPLETE.
  - PER ORIGINAL DRAWINGS, THE (E) FOOTING SIZES ARE AS FOLLOWS. CONTRACTOR TO VERIFY.
    - A. FE-6E, GE-6E: 6'-0" x 6'-0" x 1'-0"
    - B. FE-7E, GE-7E: 6'-6" x 6'-6" x 1'-2"

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VA FORM 08 - 6231

Revisions:	Date:

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AE PROJECT NUMBER: 14564

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VA U.S. Department  
of Veterans  
Affairs

Drawing Title  
**GROUND FLOOR DEMOLITION  
PLAN**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION  
DOCUMENTS**

FULLY SPRINKLERED

Project Title  
**CONSTRUCT LABORATORY  
ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

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Drawn  
SUJPAD

Project Number  
438-440

Building Number  
5

Drawing Number  
**SB101**

# EXISTING ROOF / FIRST FLOOR PLAN

1/8" = 1'-0"

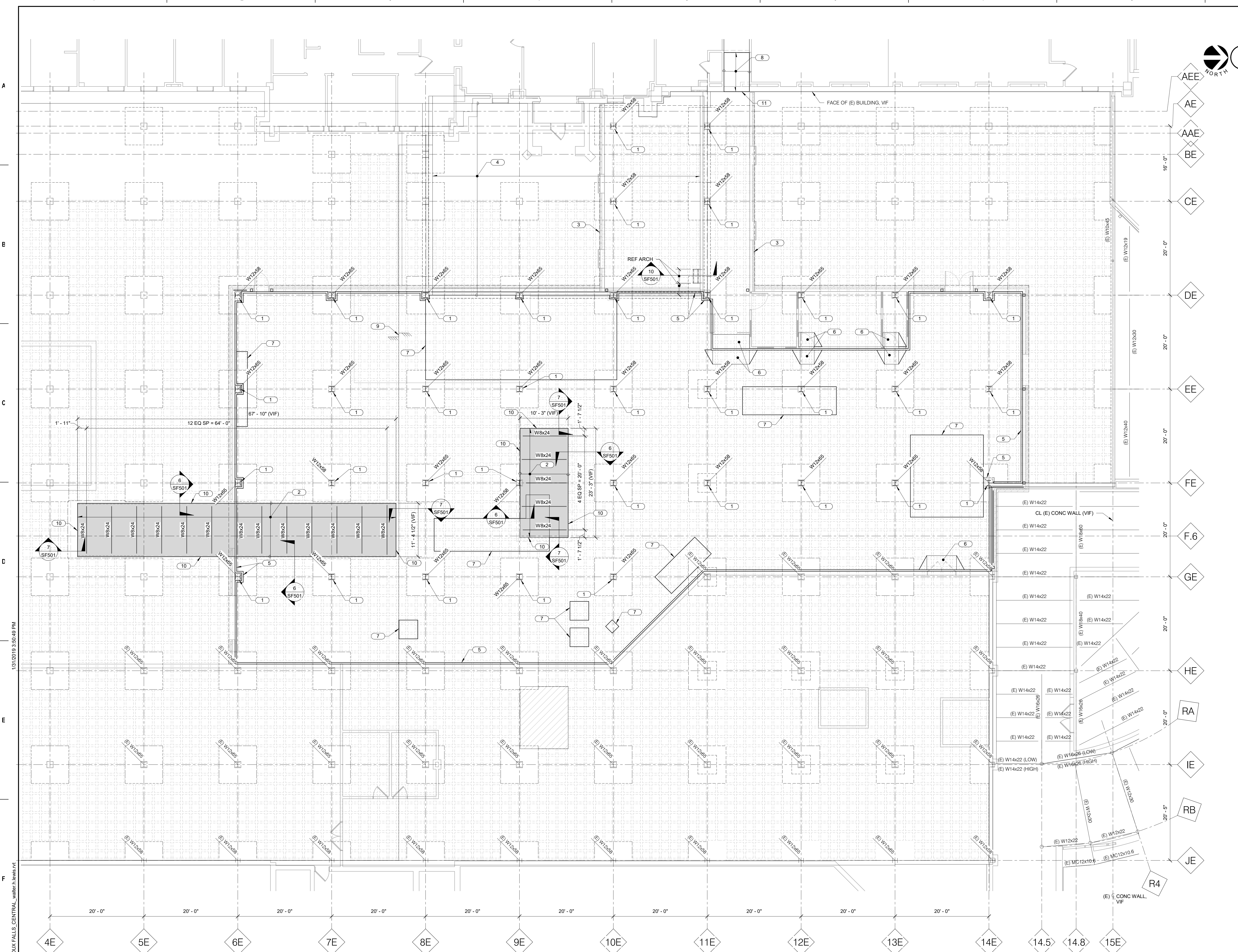
NOTES

- TOP OF (E) ROOF SLAB EL = NEW INTERSTITIAL FLOOR SLAB EL = ( 1512' - 2 3/4" ), UNLESS NOTED OTHERWISE. THE EXISTING STRUCTURAL SLAB IS TOPPED WITH A CONCRETE TOPPING SLAB OF UNKNOWN AND VARIABLE THICKNESS. NEW HOUSEKEEPING PADS AND COLUMNS MAY BEAR ON THE CONCRETE TOPPING, BUT ITS ELEVATION MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATING NEW STRUCTURAL ELEMENTS.
- FIELD VERIFY ALL EXISTING CONDITIONS AND ELEVATIONS.
- PROVIDE FLOOR DRAINS AS REQUIRED BY ARCHITECTURAL AND MECHANICAL DRAWINGS. REFER TO DRAWINGS BY OTHER DISCIPLINES FOR QUANTITIES, LOCATIONS, AND FLOOR SLOPES.
- ANY DEMOLITION AND CONSTRUCTION WORK ASSOCIATED WITH THE SKYLIGHT INFILL AND CONNECTION OF NEW COLUMNS TO EXISTING CONCRETE SHALL BE CONDUCTED DURING OFF-WORK HOURS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEYNOTES:

- NEW STEEL COLUMN TO BE CENTERED OVER EXISTING CONCRETE COLUMN GRID LINES. BEARING ELEVATION OF COLUMN BASE PLATE ON (E) CONCRETE VARIES (CONTRACTOR TO VERIFY). REFER TO 9/SF501.
- INFILL SKYLIGHT AREA WITH 3 1/2" NORMAL WEIGHT CONCRETE SLAB ON 1 1/2" x 20 GA METAL FORM DECK (5" TOTAL SLAB THICKNESS), REINFORCED WITH 6x6 - W1.4XW1.4 WWR. ATTACH DECK TO SUPPORTS WITH 364 (2) PATTERN. REFER TO 3/SF501 FOR ATTACHMENT DETAIL. IF (E) STRUCTURAL SLAB IS TOPPED WITH (E) CONCRETE TOPPING SLAB, INFILL WITH LIGHTWEIGHT CONCRETE TO MATCH ELEVATION.
- EXTENTS OF NEW ADDITION ABOVE.
- EXISTING RECESSED ROOF. TOP OF (E) ROOF STRUCTURE EL = ( 1510' - 10 3/4" ) (VIF).
- CONCRETE CURB. REFER TO 8/SF501. COORDINATE LOCATION AND EXTENTS WITH ARCH DRAWINGS.
- CONCRETE RAMP. REFER TO ARCH DRAWINGS FOR LOCATIONS, EXTENTS, AND SLOPE. CONSTRUCT PER 9/SF501.
- CONCRETE HOUSEKEEPING PAD. COORDINATE LOCATION AND SIZE WITH EQUIPMENT REQUIREMENTS. REFER TO MEP DRAWINGS FOR ADDITIONAL INFORMATION. REFER TO 4/SF501 FOR DETAILS.
- 4" THICK SLOPED LIGHTWEIGHT CONCRETE SLAB RAMP REINFORCED WITH 6x6 - W2.1XW2.1 WWR ON RIGID INSULATION. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS, EXTENTS AND SLOPE. CONSTRUCT SIMILAR TO 11/SF501.
- APPROXIMATE LOCATION OF STEP IN CONCRETE TOPPING SLAB. DIFFERENCE IN ELEVATION IS UNKNOWN. CONTRACTOR TO FIELD VERIFY. REFER ALSO TO NOTE 1.
- REMOVE (E) CONCRETE STEM WALL AROUND SKYLIGHT DOWN TO TOP ELEVATION OF (E) CONCRETE SLAB.
- STEEL LINTEL FOR SUPPORT OF BRICK AND CONCRETE MASONRY ABOVE NEW OPENING TO BE A DEFERRED DESIGN. THE CONTRACTOR SHALL INVESTIGATE THE EXISTING WALL CONDITIONS AND FURNISH THE STRUCTURAL ENGINEER OF RECORD (SEOR) WITH THE INFORMATION LISTED BELOW, WHEREUPON THE SEOR WILL PROVIDE A FINAL LINTEL DESIGN.

A. (E) WALL THICKNESS AND CONSTRUCTION.  
B. DETAILS AND ELEVATION OF (E) CONCRETE BEAMS.



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 VA FORM 08 - 6231

Revisions:	Date:

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AE PROJECT NUMBER: 14564

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Office of  
Construction  
and Facilities  
Management

VA U.S. Department  
of Veterans  
Affairs

Drawing Title  
**EXISTING ROOF / FIRST FLOOR  
PLAN**

Approved:

Phase  
**CONSTRUCTION  
DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY  
ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

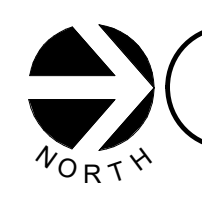
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SUJPAD

Project Number  
**438-440**

Building Number  
**5**

Drawing Number  
**SF111**



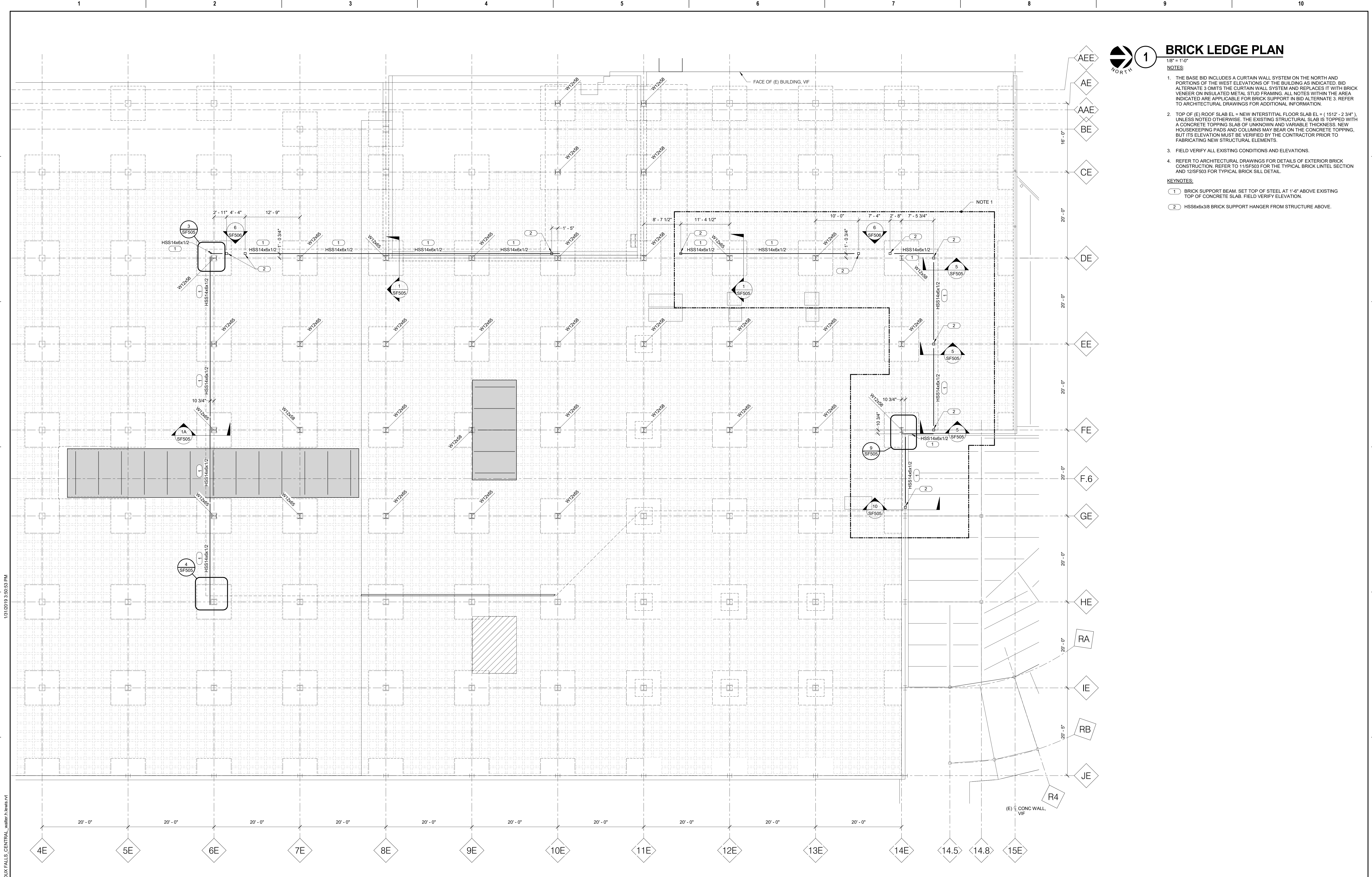
# BRICK LEDGE PLAN

1/8" = 1'-0"

- NOTES:**
1. THE BASE BID INCLUDES A CURTAIN WALL SYSTEM ON THE NORTH AND PORTIONS OF THE WEST ELEVATIONS OF THE BUILDING AS INDICATED. BID ALTERNATE 3 OMTS THE CURTAIN WALL SYSTEM AND REPLACES IT WITH BRICK VENEER ON INSULATED METAL STUD FRAMING. ALL NOTES WITHIN THE AREA INDICATED ARE APPLICABLE FOR BRICK SUPPORT IN BID ALTERNATE 3. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
  2. TOP OF (E) ROOF SLAB EL = NEW INTERSTITIAL FLOOR SLAB EL + ( 1512' - 2 3/4" ). UNLESS NOTED OTHERWISE, THE EXISTING STRUCTURAL SLAB IS TOPPED WITH A CONCRETE TOPPING SLAB OF UNKNOWN AND VARIABLE THICKNESS. NEW HOUSEKEEPING PADS AND COLUMNS MAY BEAR ON THE CONCRETE TOPPING, BUT ITS ELEVATION MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATING NEW STRUCTURAL ELEMENTS.
  3. FIELD VERIFY ALL EXISTING CONDITIONS AND ELEVATIONS.
  4. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS OF EXTERIOR BRICK CONSTRUCTION. REFER TO 11/SF503 FOR THE TYPICAL BRICK LINTEL SECTION AND 12/SF503 FOR TYPICAL BRICK SILL DETAIL.

**KEYNOTES:**


- 1 BRICK SUPPORT BEAM. SET TOP OF STEEL AT 1'-6" ABOVE EXISTING TOP OF CONCRETE SLAB. FIELD VERIFY ELEVATION.
- 2 HSS6x6x3/8 BRICK SUPPORT HANGER FROM STRUCTURE ABOVE.



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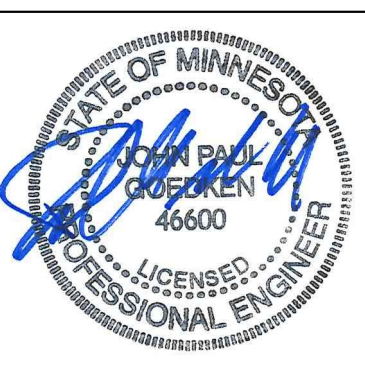
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Drawing Title  
**BRICK LEDGE PLAN**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

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Drawn  
SUJAPAD

Project Number  
**438-440**

Building Number  
**5**

Drawing Number  
**SF112**

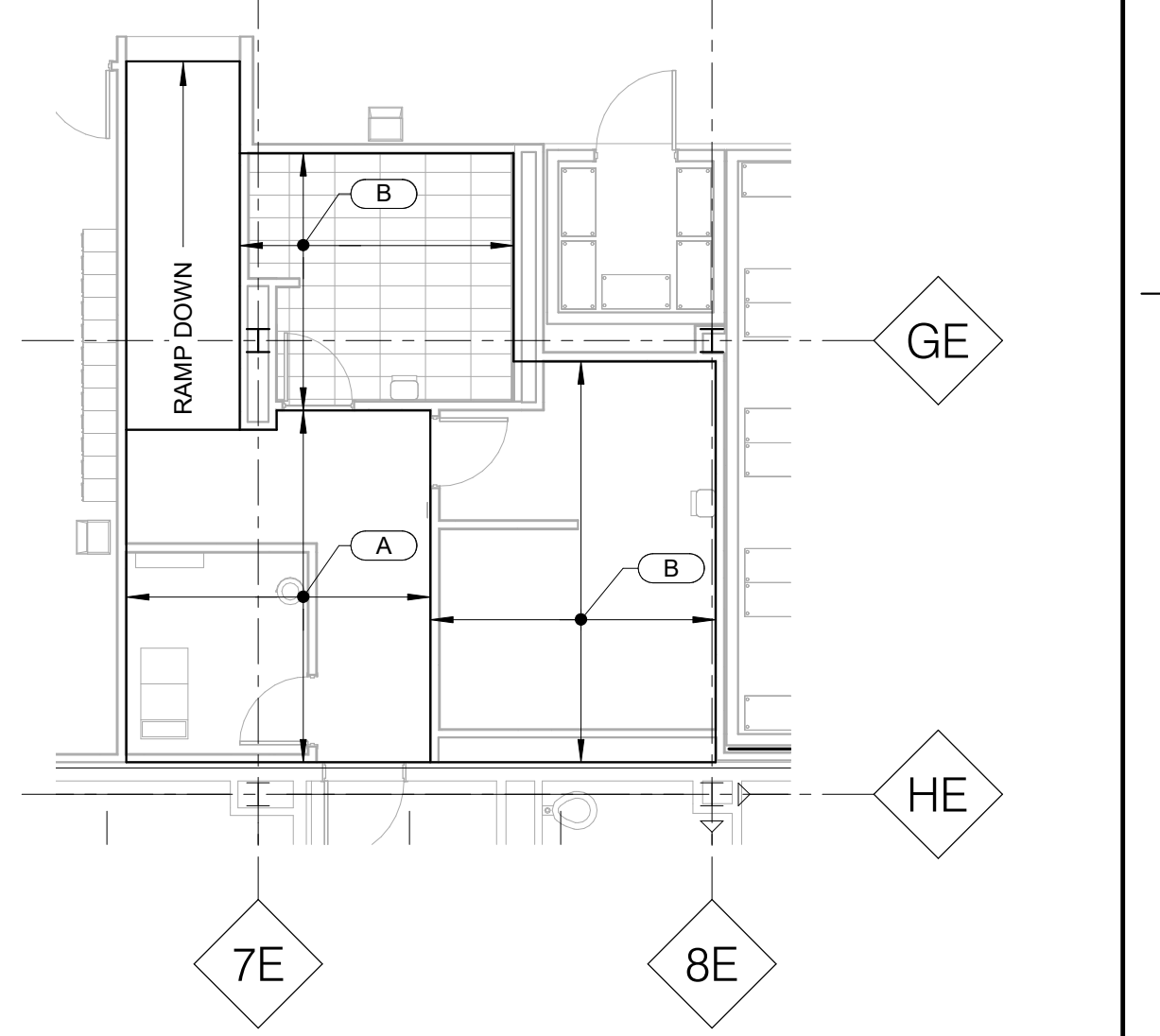
# 1 SECOND LEVEL FLOOR FRAMING PLAN

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

- FIELD VERIFY ALL EXISTING CONDITIONS AND ELEVATIONS.
- PROVIDE FLOOR DRAINS AS REQUIRED BY ARCHITECTURAL AND MECHANICAL DRAWINGS. REFER TO DRAWINGS BY OTHER DISCIPLINES FOR QUANTITIES, LOCATIONS, AND FLOOR SLOPES.
- TYPICAL COMPOSITE STUDS TO BE 3/4" X 4" LONG (FINAL LENGTH INSTALLED). REFER TO PLAN FOR NUMBER OF SHEAR STUDS PER FOOT. REFER TO 2/SF503. REFER TO SHADED AREAS FOR RECESSED FLOOR AND ASSOCIATED KEYNOTES FOR NON TYPICAL STUDS.
- REFER TO S1001 FOR THE SECOND FLOOR LIVE LOAD PLAN.
- REFER TO 1/SF501 FOR TYPICAL STEEL BEAM SHEAR CONNECTION DETAIL.
- COORDINATE WITH ARCHITECTURAL AND MEP DRAWINGS FOR FLOOR PENETRATIONS. PROVIDE STRUCTURAL STEEL FRAMING AROUND PERIMETER OF ALL OPENINGS.
- REFER TO 5/SF503 FOR TYPICAL SKEWED CONNECTION.
- REFER TO 3/SF501 FOR TYPICAL DECK ATTACHMENT DETAIL.
- REFER TO 3/SF501 FOR TYPICAL DECK ATTACHMENT DETAIL.
- REFER TO 3/SF501 FOR TYPICAL DECK ATTACHMENT DETAIL.
- THE BASE BID INCLUDES A CURTAIN WALL SYSTEM ON THE NORTH AND PORTIONS OF THE WEST ELEVATIONS OF THE BUILDING. THE CONTRACTOR SHALL INVESTIGATE THE CURTAIN WALL SYSTEM AND REPLACES IT WITH BRICK VENEER ON INSULATED METAL STUD FRAMING. ALL PERIMETER BRICK SUPPORT DETAILS WITHIN THE AREA INDICATED ARE APPLICABLE FOR BRICK SUPPORT IN BID ALTERNATE 3. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

- KEYNOTES:
- 3 1/4" LIGHT WEIGHT CONCRETE SLAB ON 1 1/2" (18 GA) COMPOSITE METAL DECK (4 3/4" TOTAL THICKNESS) REINFORCED WITH 6x6 - W2.1xW2.1 WWR. ATTACH DECK TO SUPPORTS WITH 3/8" (2) PATTERN. TOP OF SECOND FLOOR SLAB EL. (1522' - 9.34"). PROVIDE CONSTRUCTION JOINTS AS REQUIRED PER 9 AND 10/SF503.
  - 4" THICK SLOPED LIGHT WEIGHT CONCRETE SLAB REINFORCED WITH 6x6 - W2.1xW2.1 WWR ON RIGID INSULATION. REFER TO SECTION.
  - APPROXIMATE BOUNDARY OF NEW WALK-IN-COOLER. COORDINATE EXTENTS WITH ARCHITECTURAL AND COOLER MANUFACTURER.
  - RECESS TOP OF SLAB FOR WALK-IN-COOLER. TOP OF SLAB WITHIN SHADED AREA EL. (1522' - 5.34"). VERIFY WITH COOLER MANUF. REFER TO KEYNOTE 1 FOR TYPICAL CONSTRUCTION.
  - 4" RAISED CONC SLAB REIN WITH 6x6 - W2.1xW2.1 WWR OVER RIGID INSULATION. REFER TO 2/SF121 FOR ELEVATIONS. COORDINATE EXTENTS WITH ARCHITECT AND REFER TO SECTIONS FOR ADDITIONAL INFORMATION.
  - PLAN DIMENSION OF RECESSED SLAB TO BE COORDINATED WITH ARCHITECT AND COOLER MANUFACTURER. DO NOT FABRICATE STEEL UNTIL COOLER DIMENSIONS HAVE BEEN APPROVED.
  - 2" BUILDING EXPANSION JOINT. TO FOLLOW THE LINE OF THE EXISTING BUILDING. CONTRACTOR TO FIELD VERIFY EXISTING BUILDING CONFIGURATION.
  - FOR DECK EDGE DIMENSIONS AND DETAILS, REFER TO PARTIAL PLAN DETAIL 1/SF160.
  - 3 1/4" LIGHT WEIGHT CONCRETE SLAB ON 1 1/2" (18 GA) COMPOSITE METAL DECK (4 3/4" TOTAL THICKNESS) REINFORCED #4 @ 12" O.C. EACH WAY. BARS SPANNING EAST-WEST TO BE PLACED FIRST, CHAINED AT 1" ABOVE TOP OF METAL DECK. BARS SPANNING NORTH-SOUTH TO BE PLACED SECOND. ATTACH DECK TO SUPPORTS WITH 3/8" (2) PATTERN. TOP OF SECOND FLOOR SLAB EL. (1522' - 9.34").
  - T.O. STEEL EL. (1522' - 1") FOR RECESSED WALK-IN-COOLER SLAB.
  - PROVIDE A WELDED WT SPACER ON TOP OF GIRDER, SIMILAR TO 1/SF502.
  - AREA WITH 1" RECESSED SLAB FOR DRAIN. REFER TO 3/SF502. STUDS FOR COMPOSITE BEAMS WITHIN THE SHADED AREA TO BE 3/4" X 3" LONG (FINAL LENGTH INSTALLED).
  - HSS BRICK SUPPORT HANGER. REFER TO SF112 FOR SIZE AND ADDITIONAL DETAILS.
  - AT OPENINGS IN SLAB, PROVIDE BENT PLATE AROUND PERIMETER SIMILAR TO 6/SF503.
  - STEEL LINTEL FOR SUPPORT OF BRICK AND CONCRETE MASONRY ABOVE NEW OPENING TO BE A DEFERRED DESIGN. THE CONTRACTOR SHALL INVESTIGATE THE EXISTING WALL CONDITIONS AND FURNISH THE STRUCTURAL ENGINEER OF RECORD (SEOR) WITH THE INFORMATION LISTED BELOW, WHEREUPON THE SEOR WILL PROVIDE A FINAL LINTEL DESIGN.

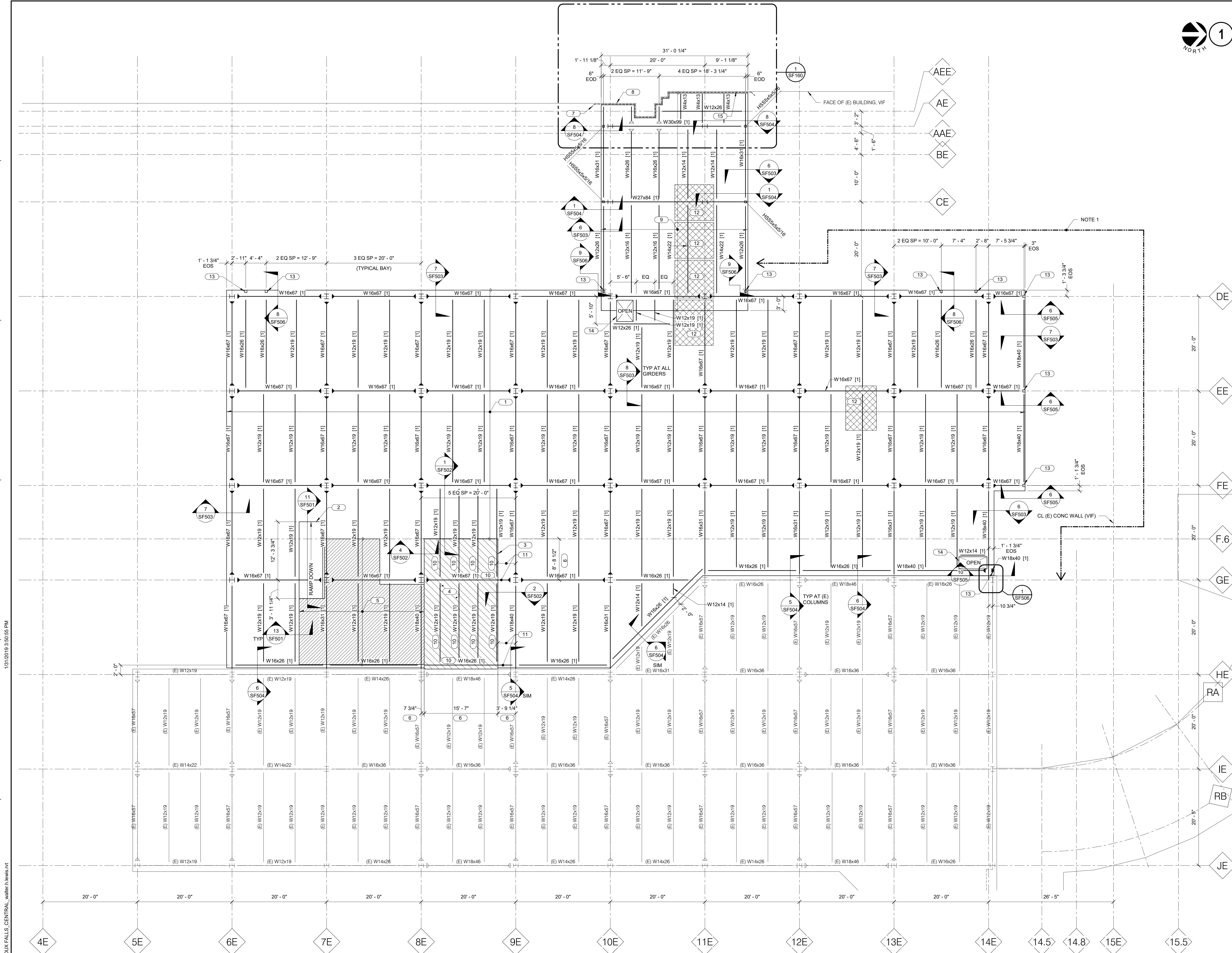
A. (E) WALL THICKNESS AND CONSTRUCTION.  
B. DETAILS AND ELEVATION OF (E) CONCRETE BEAMS.



## 2 RAISED SLAB PLAN DETAIL

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

- REFER TO OVERALL PLAN FOR STRUCTURAL SIZES, FRAMING, AND SECTIONS.
- KEYNOTES:
- T.O. SLAB EL. (1523'-7.1/2").
  - T.O. SLAB EL. (1523' - 6.1/2"). SLAB IS RECESSED AT TOILET ROOMS - REFER TO ARCHITECT FOR EXTENTS. PROVIDE DRAINS AND SLOPED CONCRETE TOPPING AS REQUIRED. REFER TO 3/SF502.



Revisions:	Date:

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AE PROJECT NUMBER: 14564

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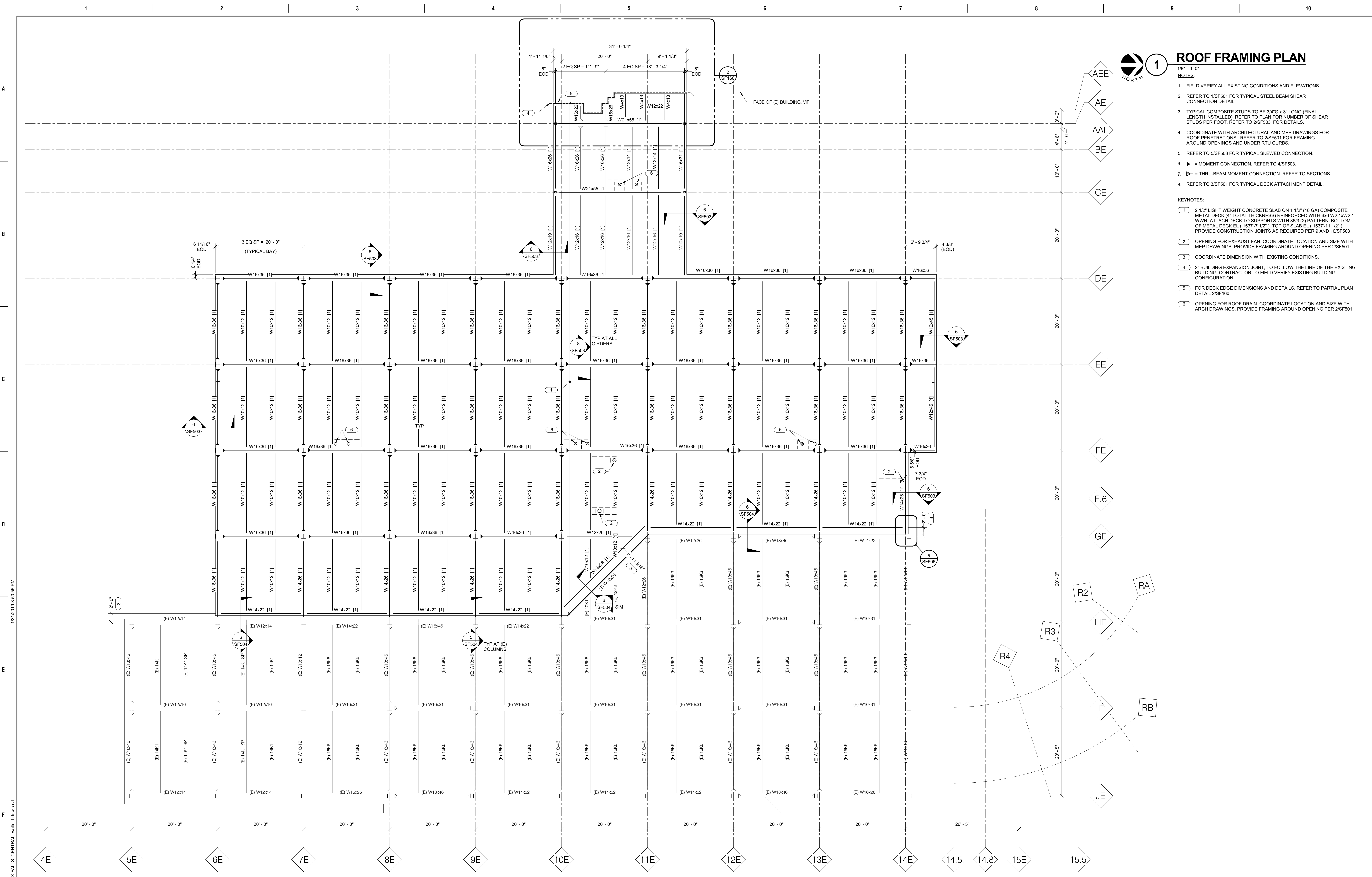
Drawing Title  
**SECOND LEVEL FLOOR FRAMING PLAN**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title <b>CONSTRUCT LABORATORY ADDITION</b>	Project Number <b>438-440</b>
Location <b>SIOUX FALLS, SOUTH DAKOTA</b>	Building Number <b>5</b>
Issue Date <b>01/11/2019</b>	Drawn <b>SUJPAD</b>
Checked <b>MICALB</b>	Drawing Number <b>SF121</b>



# 1 ROOF FRAMING PLAN

- 1/8" = 1'-0"
- NOTES:
- FIELD VERIFY ALL EXISTING CONDITIONS AND ELEVATIONS.
  - REFER TO 1/SF501 FOR TYPICAL STEEL BEAM SHEAR CONNECTION DETAIL.
  - TYPICAL COMPOSITE STUDS TO BE 3/4"x 3" LONG (FINAL LENGTH INSTALLED). REFER TO PLAN FOR NUMBER OF STUDS PER FOOT. REFER TO 2/SF503 FOR DETAILS.
  - COORDINATE WITH ARCHITECTURAL AND MEP DRAWINGS FOR ROOF PENETRATIONS. REFER TO 2/SF501 FOR FRAMING AROUND OPENINGS AND UNDER RTU CURBS.
  - REFER TO 5/SF503 FOR TYPICAL SKEWED CONNECTION.
  - ▶ = MOMENT CONNECTION. REFER TO 4/SF503.
  - ▶- = THRU-BEAM MOMENT CONNECTION. REFER TO SECTIONS.
  - REFER TO 3/SF501 FOR TYPICAL DECK ATTACHMENT DETAIL.

- KEYNOTES:
- 2 1/2" LIGHT WEIGHT CONCRETE SLAB ON 1 1/2" (18 GA) COMPOSITE METAL DECK (4" TOTAL THICKNESS) REINFORCED WITH #6 W21x42 WIR. ATTACH DECK TO SUPPORTS WITH #6 (2) PATTERN. BOTTOM OF METAL DECK EL. (1537'-7 1/2"). TOP OF SLAB EL. (1537'-11 1/2"). PROVIDE CONSTRUCTION JOINTS AS REQUIRED PER 9 AND 10/SF503.
  - OPENING FOR EXHAUST FAN. COORDINATE LOCATION AND SIZE WITH MEP DRAWINGS. PROVIDE FRAMING AROUND OPENING PER 2/SF501.
  - COORDINATE DIMENSION WITH EXISTING BUILDING.
  - 2" BUILDING EXPANSION JOINT. TO FOLLOW THE LINE OF THE EXISTING BUILDING. CONTRACTOR TO FIELD VERIFY EXISTING BUILDING CONFIGURATION.
  - FOR DECK EDGE DIMENSIONS AND DETAILS, REFER TO PARTIAL PLAN DETAIL 2/SF160.
  - OPENING FOR ROOF DRAIN. COORDINATE LOCATION AND SIZE WITH ARCH DRAWINGS. PROVIDE FRAMING AROUND OPENING PER 2/SF501.

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Drawing Title

**ROOF FRAMING PLAN**

Approved:

Phase

CONSTRUCTION DOCUMENTS

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Project Title		Project Number	
CONSTRUCT LABORATORY ADDITION		438-440	
Location		Building Number	
SIOUX FALLS, SOUTH DAKOTA		5	
Issue Date	Checked	Drawn	Drawing Number
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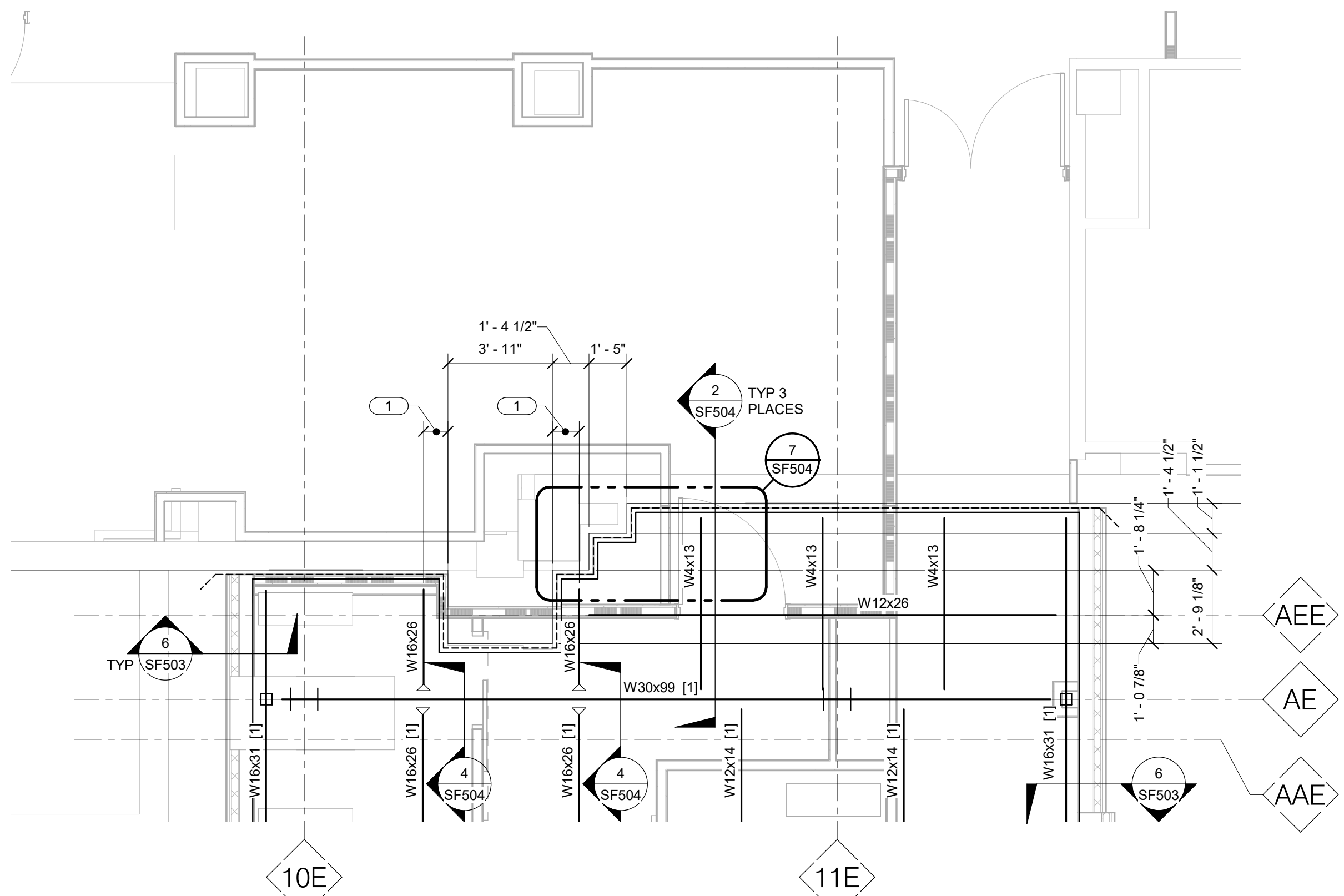
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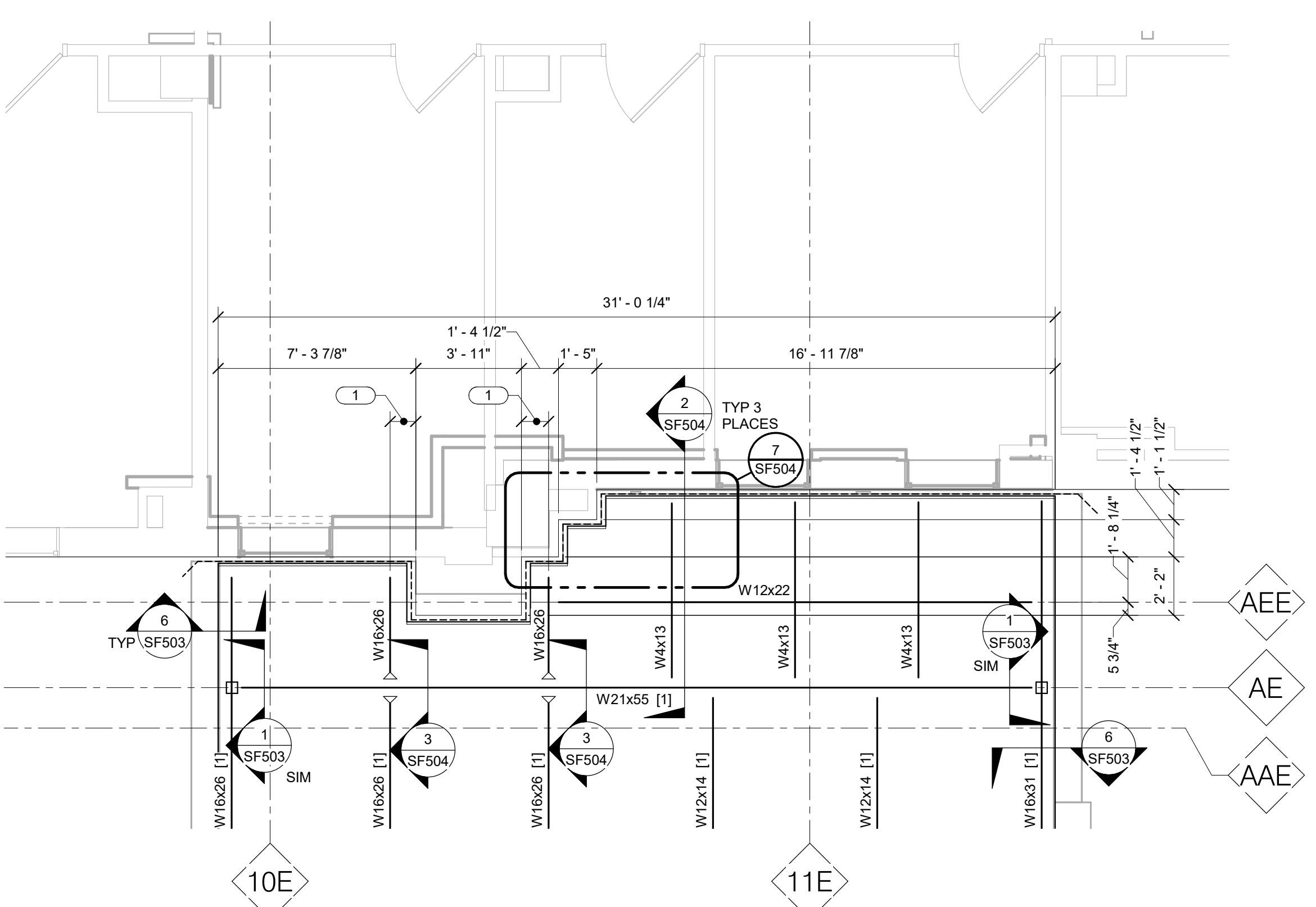
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**1 PARTIAL FLOOR PLAN DETAIL**

1/4" = 1'-0"  
**NOTES:**  
 1. DIMENSIONS SHOWN ARE TO FACE OF EXISTING BRICK AND MUST BE VERIFIED BY THE CONTRACTOR.  
 2. REFER TO ROOF FRAMING PLANS FOR ADDITIONAL INFORMATION.  
 3.  $\blacktriangleright$  = THRU - BEAM MOMENT CONNECTION.  
**KEYNOTES:**  
 1 REFER TO FLOOR FRAMING PLAN.



**2 PARTIAL ROOF FRAMING PLAN**

1/4" = 1'-0"  
**NOTES:**  
 1. DIMENSIONS SHOWN ARE TO FACE OF EXISTING BRICK AND MUST BE VERIFIED BY THE CONTRACTOR.  
 2. REFER TO ROOF FRAMING PLANS FOR ADDITIONAL INFORMATION.  
 3.  $\blacktriangleright$  = THRU - BEAM MOMENT CONNECTION.  
**KEYNOTES:**  
 1 REFER TO ROOF FRAMING PLAN.

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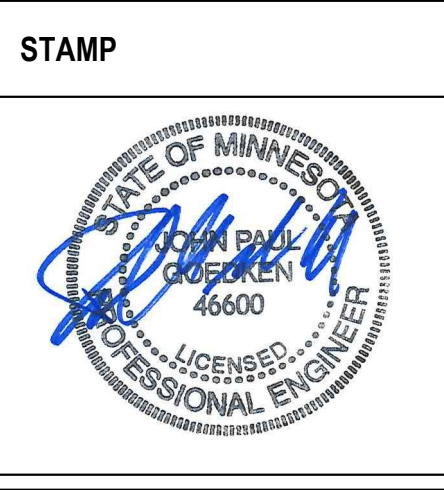
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AE PROJECT NUMBER: 14564



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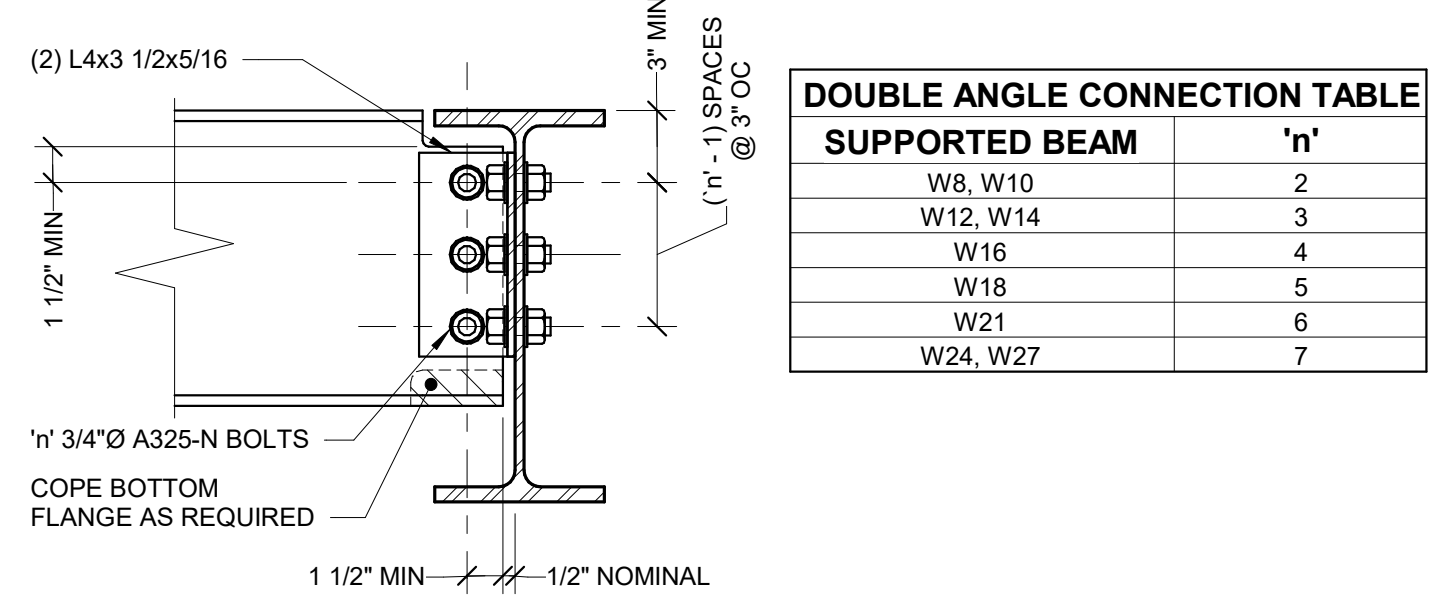
U.S. Department  
 of Veterans  
 Affairs

Drawing Title <b>DECK EDGE DETAIL</b>
Approved:

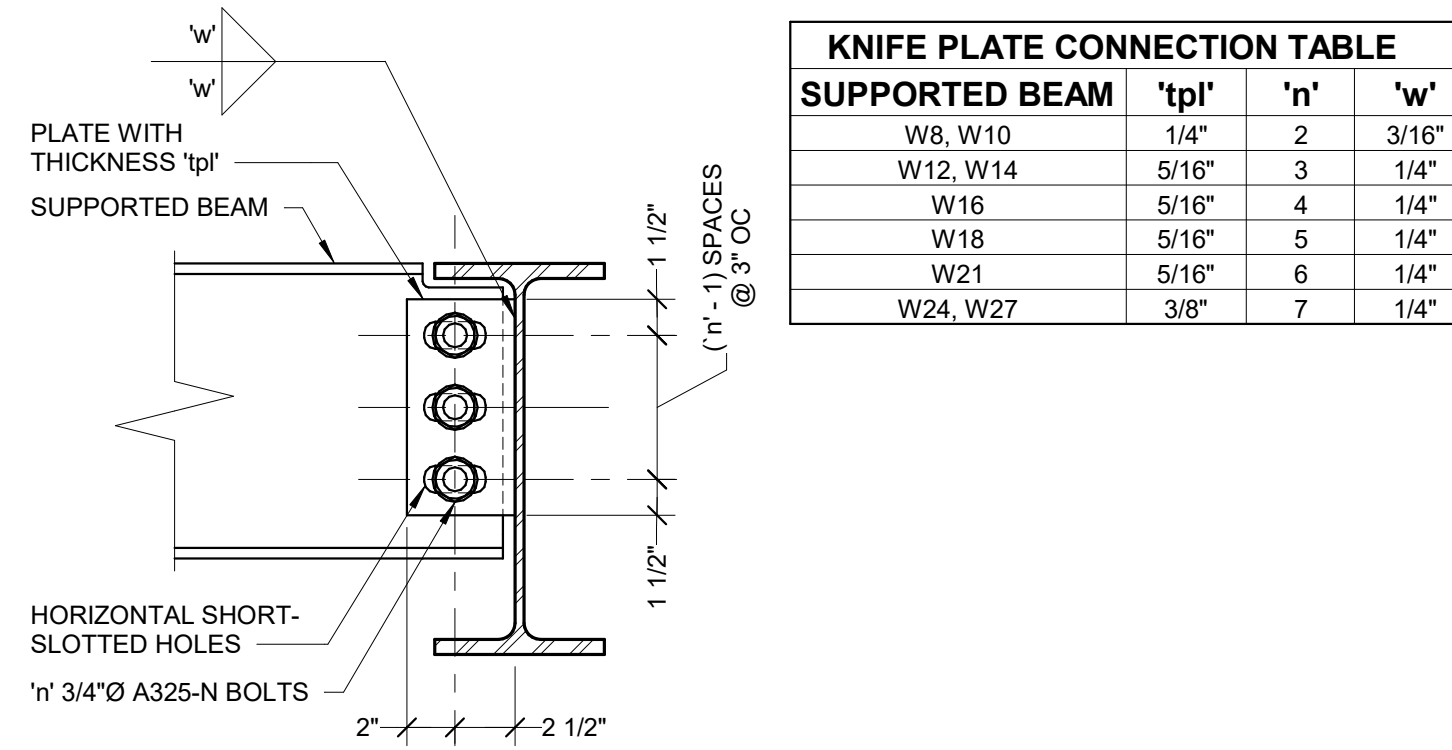
Phase <b>CONSTRUCTION DOCUMENTS</b>
<b>FULLY SPRINKLERED</b>

Project Title <b>CONSTRUCT LABORATORY ADDITION</b>	Project Number <b>438-440</b>
Location <b>SIOUX FALLS, SOUTH DAKOTA</b>	Building Number <b>5</b>
Issue Date <b>01/11/2019</b>	Checked <b>MICALB</b>
Drawn <b>SUJPAD</b>	Drawing Number <b>SF160</b>

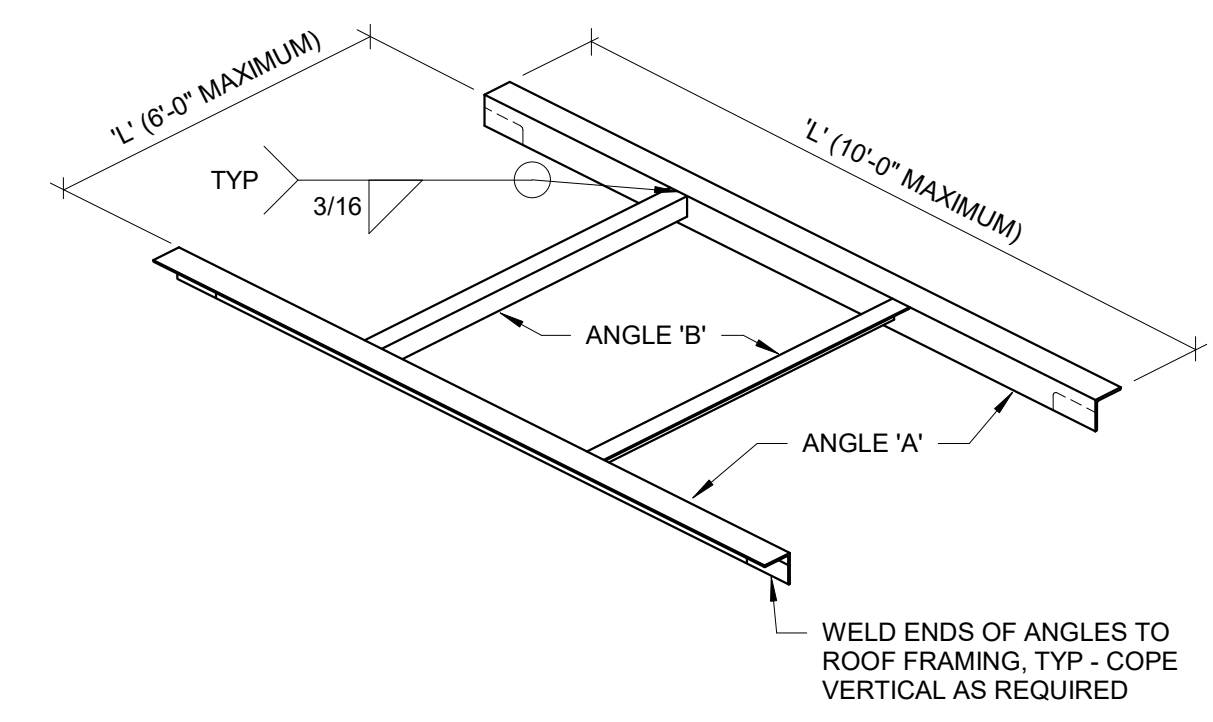
Project Number <b>438-440</b>
Building Number <b>5</b>
Drawing Number <b>SF160</b>



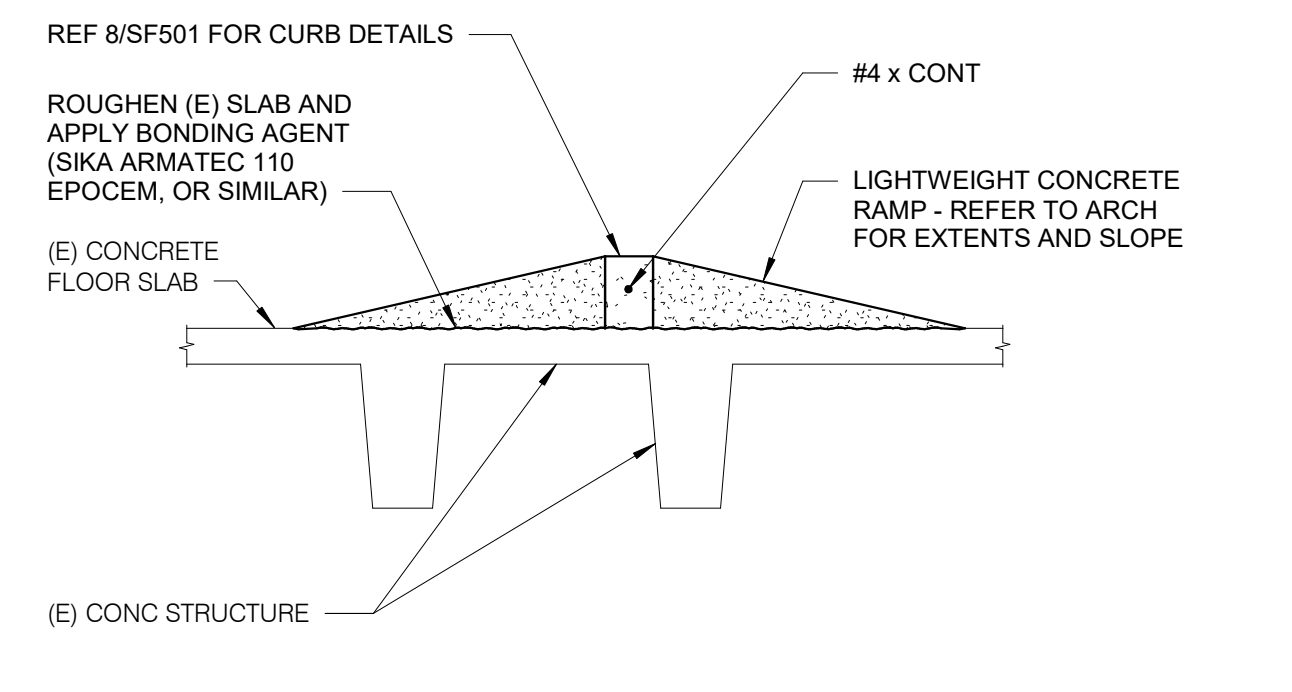
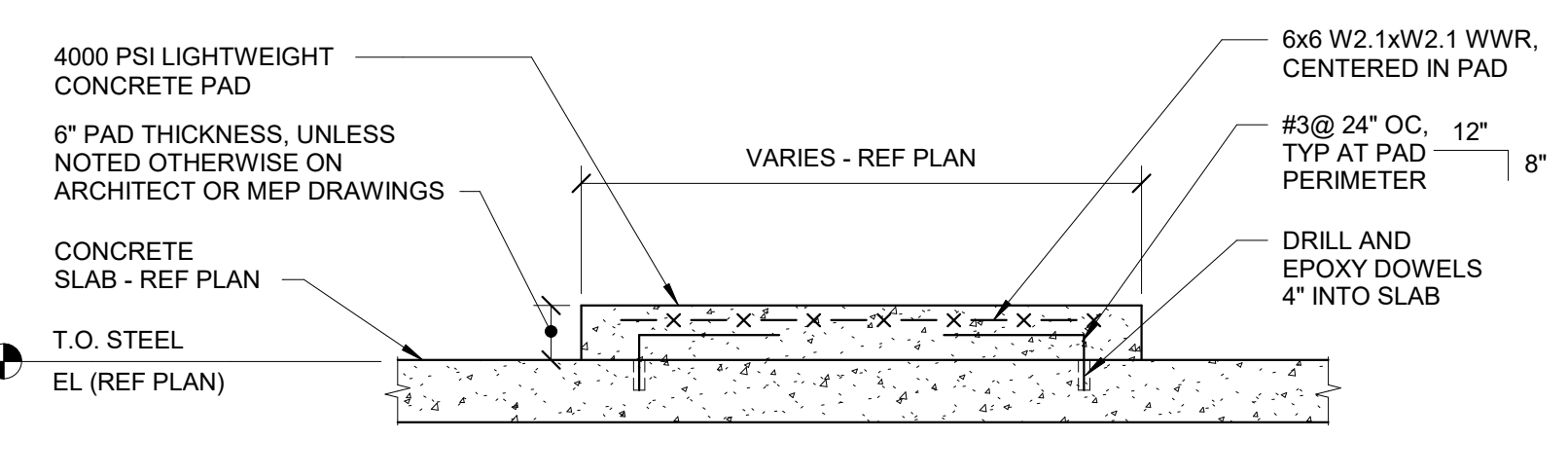
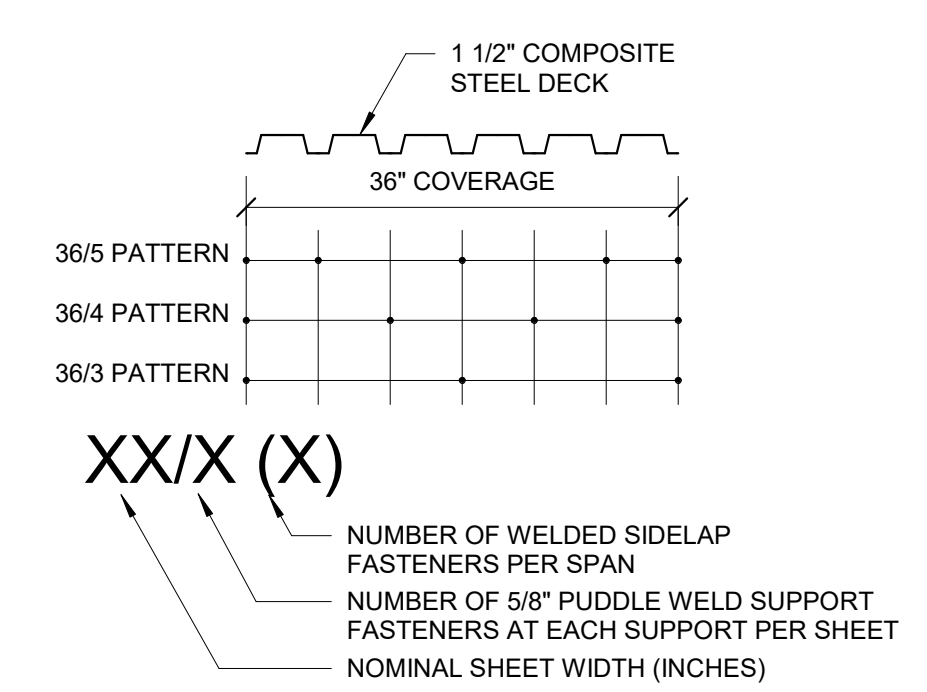
DOUBLE ANGLE CONNECTION TABLE			
SUPPORTED BEAM	'n'	'n'	'n'
W8, W10	2		
W12, W14	3		
W16	4		
W18	5		
W21	6		
W24, W27	7		



KNIFE PLATE CONNECTION TABLE			
SUPPORTED BEAM	'tp'	'n'	'w'
W8, W10	1/4"	2	3/16"
W12, W14	5/16"	3	1/4"
W16	5/16"	4	1/4"
W18	5/16"	5	1/4"
W21	5/16"	6	1/4"
W24, W27	3/8"	7	1/4"



'L'	ANGLE 'A'	ANGLE 'B'
UP TO 1'-0"	NONE - SUMP PAN ONLY	NONE - SUMP PAN ONLY
1'-1\" TO 4'-6"	L4x4x1/4	L4x4x1/4
4'-7\" TO 8'-0"	L4x4x5/16	L4x4x1/4
8'-1\" TO 8'-0"	L4x4x3/8	
8'-1\" TO 10'-0"	L6x4x3/8 (LLV)	



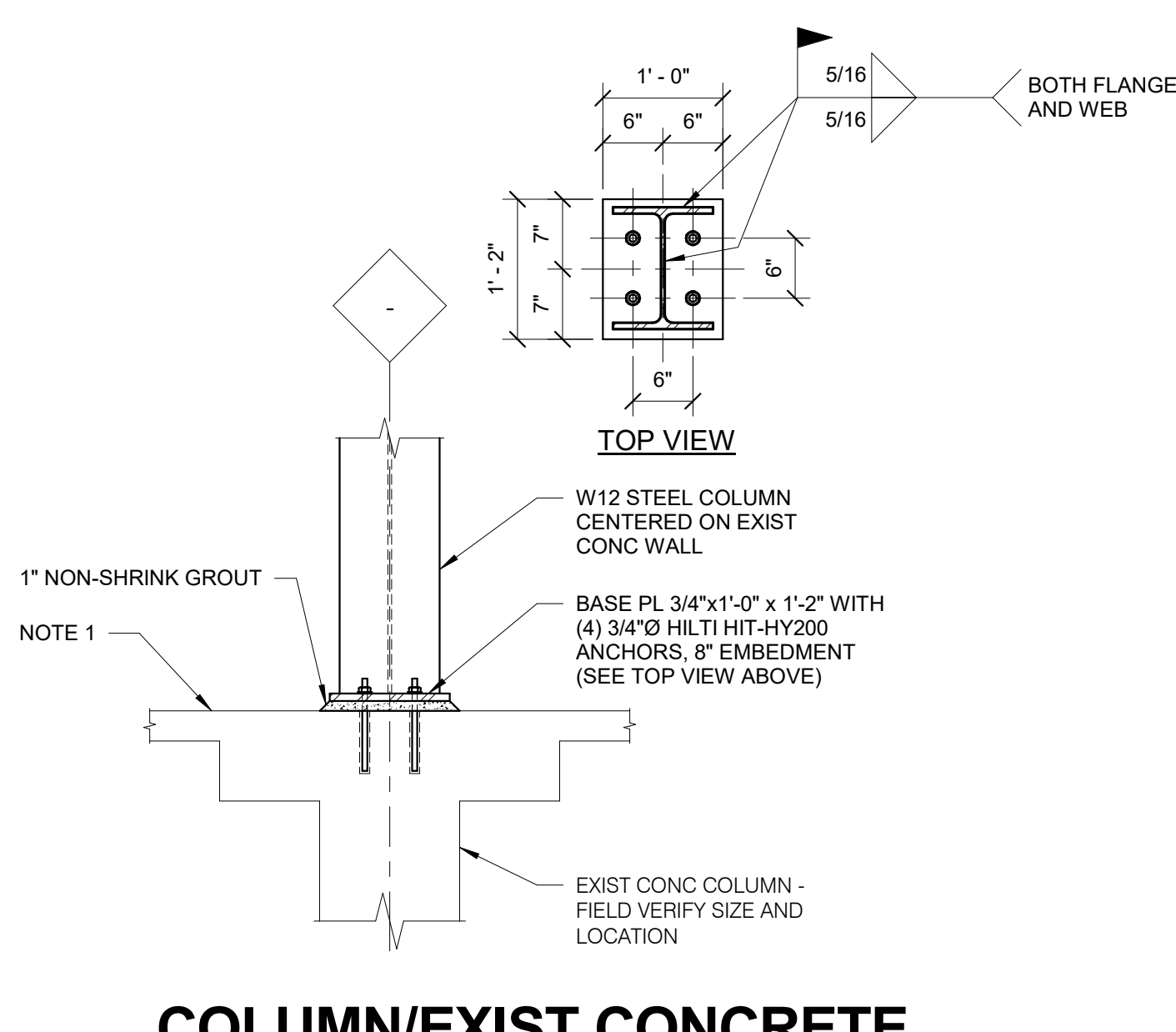
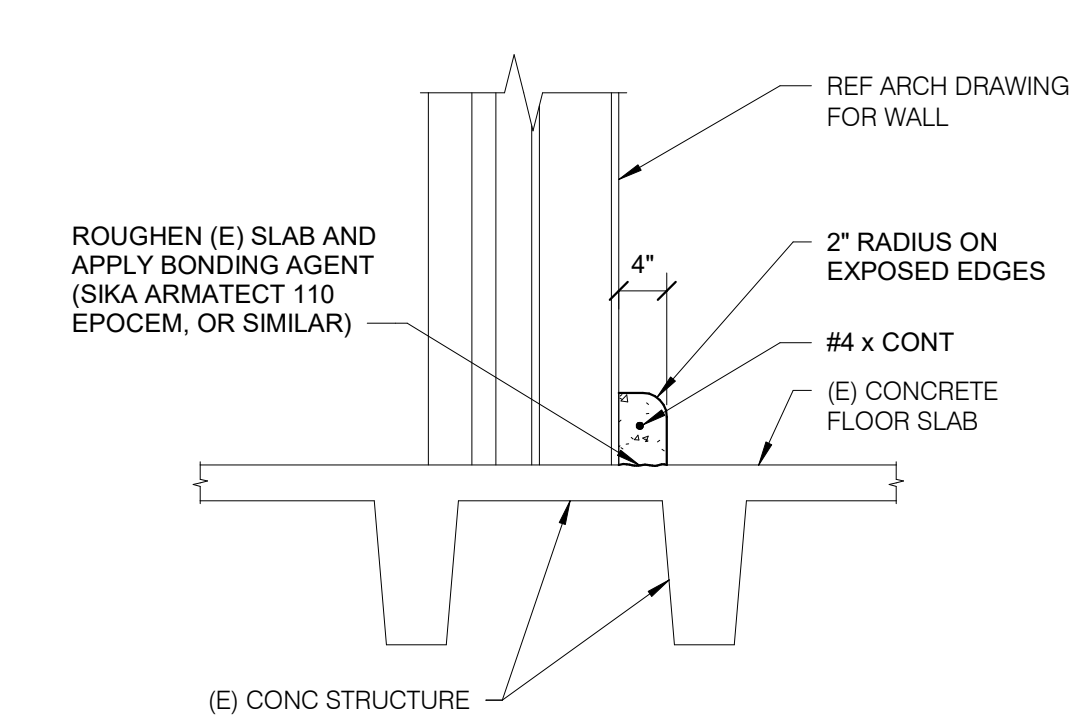
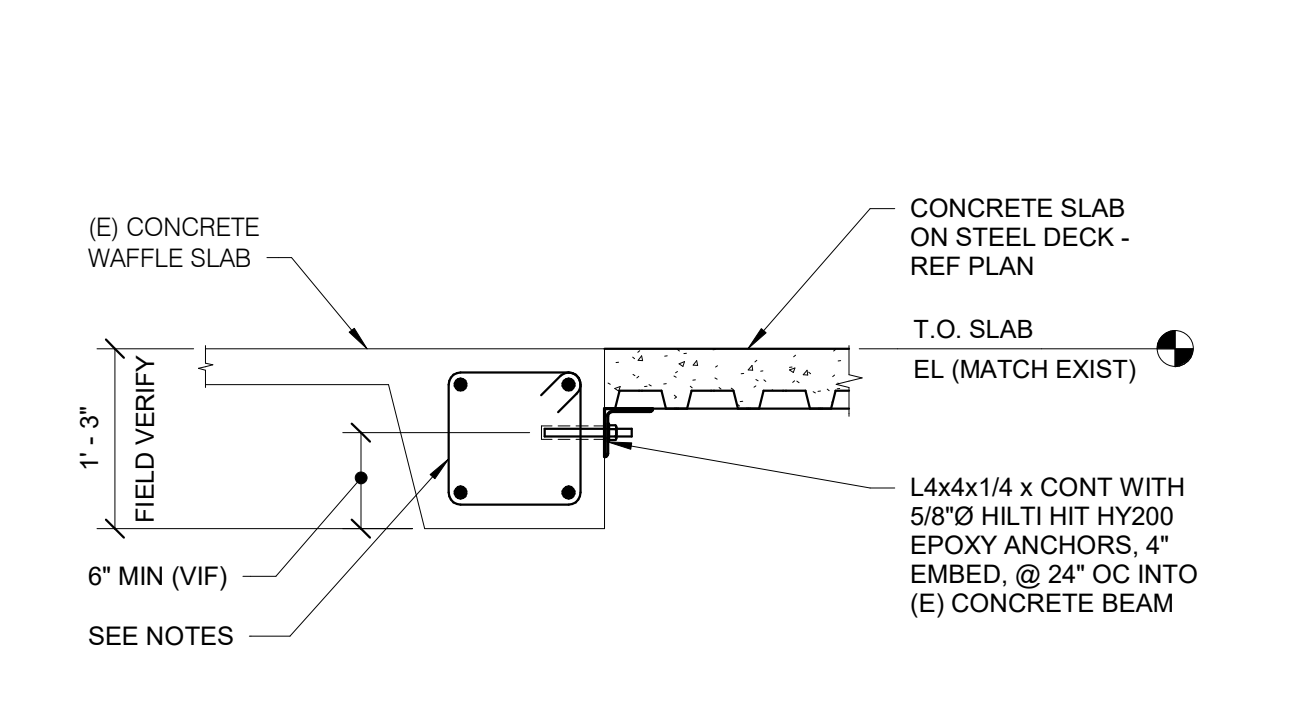
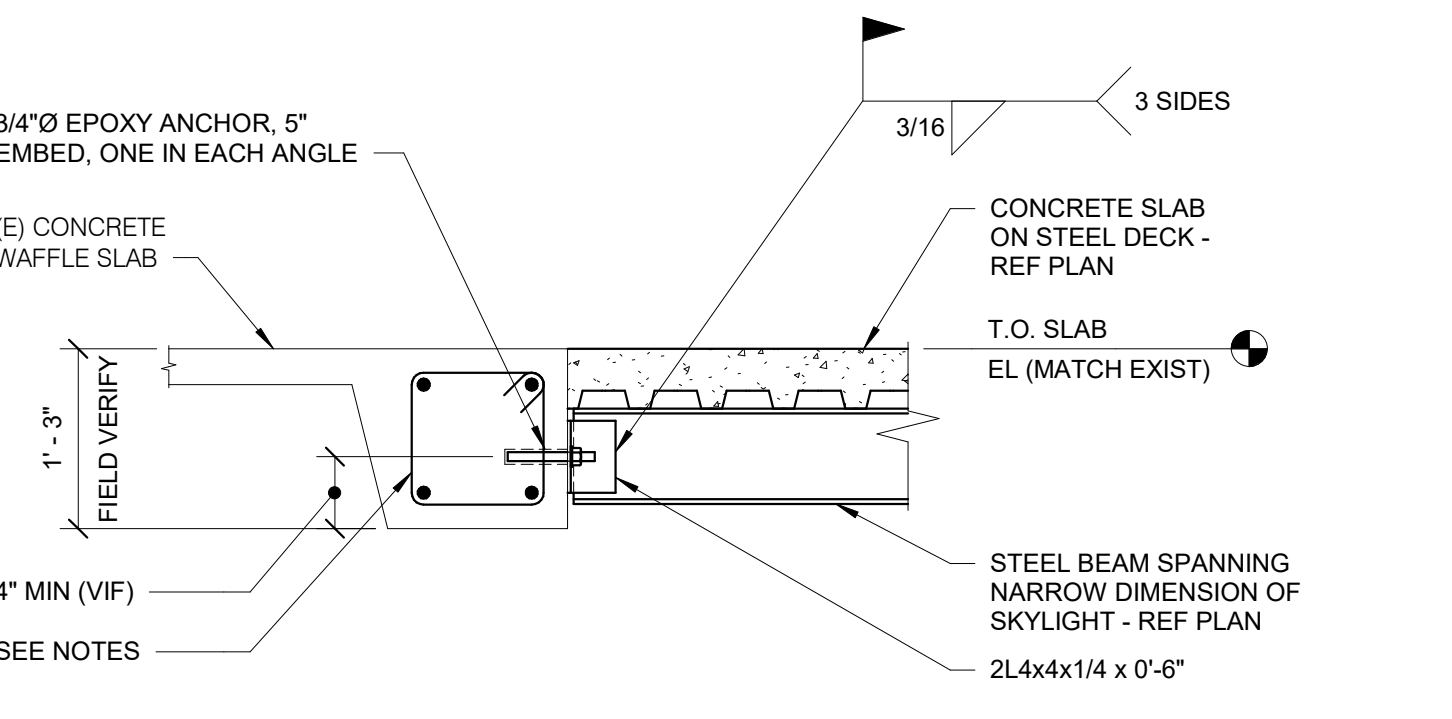
**1 TYPICAL SHEAR CONNECTION DETAIL**  
 1 1/2" = 1'-0"  
 NOTES:  
 1. BOTH DOUBLE ANGLE AND KNIFE PLATE CONNECTION CONFIGURATIONS ARE ACCEPTABLE, UNLESS NOTED OTHERWISE. FABRICATOR AND DETAILER SHALL SELECT WHICH OPTION IS BEST SUITED FOR THEIR FABRICATION PROCESS AND THE ANTICIPATED ERECTION PROCEDURES.  
 2. DETAIL TO BE SIMILAR AT CONNECTIONS TO WIDE FLANGE OR HSS COLUMNS.  
 3. UNLESS NOTED OTHERWISE, PROVIDE SHEAR CONNECTIONS AS INDICATED BY THIS DETAIL.  
 4. DETAILER IS RESPONSIBLE FOR FULLY DEVELOPING GEOMETRY AND DIMENSIONAL INFORMATION REQUIRED TO FABRICATE.  
 5. WHERE TYPICAL SHEAR CONNECTION DETAIL IS NOT APPLICABLE, FABRICATOR SHALL SELECT AND DETAIL ALTERNATE CONNECTION CAPABLE OF DEVELOPING EQUAL STRENGTH. ALTERNATE CONNECTION SHALL BE SELECTED IN ACCORDANCE WITH AISC ASD CONNECTION TABLES.

**2 DECK OPENING FRAMING DETAIL**  
 3/4" = 1'-0"  
 NOTES:  
 1. USE ABOVE FRAMING AT ALL OPENINGS EXCEEDING 1'-0" UNO.  
 2. REFERENCE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS.  
 3. ROOF OPENING FRAMING NOT REQUIRED AT SIDE DISCHARGE ROOF DRAINS. COORDINATE WITH MECHANICAL CONTRACTOR.

**3 DECK FASTENER LAYOUT**  
 3/4" = 1'-0"

**4 TYPICAL HOUSEKEEPING PAD**  
 3/4" = 1'-0"  
 NOTES:  
 1. COORDINATE SIZE AND LOCATION OF HOUSEKEEPING PADS WITH MECHANICAL AND ELECTRICAL CONTRACTORS.

**5 CONCRETE RAMP DETAIL**  
 3/4" = 1'-0"



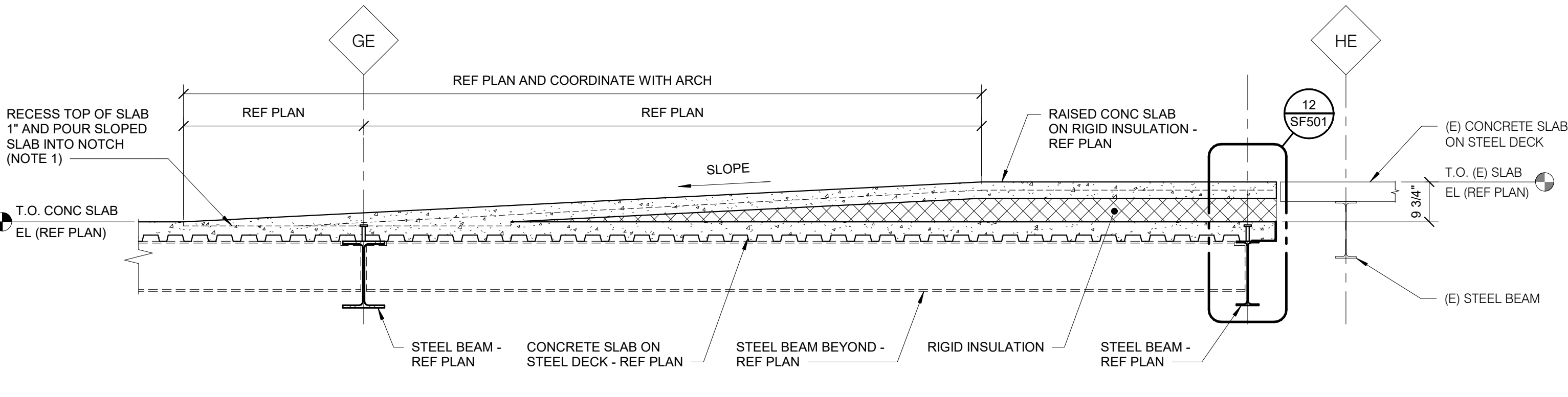
**6 WAFFLE SLAB INFILL DETAIL**  
 3/4" = 1'-0"  
 NOTES:  
 1. EXISTING REINFORCEMENT SHOWN IS REPRESENTATIVE OF ANTICIPATED CONDITIONS, BUT MUST BE FIELD VERIFIED PRIOR TO DRILLING ANCHORS.  
 2. REFER TO GENERAL NOTES, S1000 FOR ADDITIONAL INFORMATION.  
 3. TOPPING SLAB NOT SHOWN. REFER TO PLAN AND FIELD VERIFY EXISTING CONDITIONS.

**7 WAFFLE SLAB INFILL DETAIL**  
 3/4" = 1'-0"  
 NOTES:  
 1. EXISTING REINFORCEMENT SHOWN IS REPRESENTATIVE OF ANTICIPATED CONDITIONS, BUT MUST BE FIELD VERIFIED PRIOR TO DRILLING ANCHORS.  
 2. REFER TO GENERAL NOTES, S1000 FOR ADDITIONAL INFORMATION.  
 3. TOPPING SLAB NOT SHOWN. REFER TO PLAN AND FIELD VERIFY EXISTING CONDITIONS.

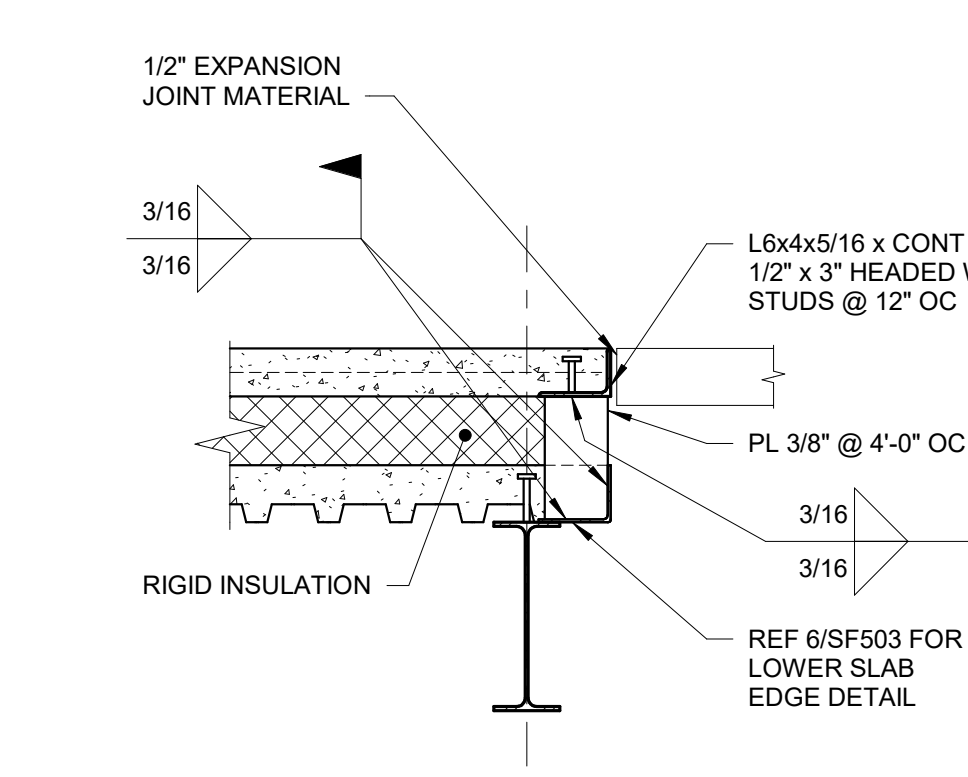
**8 CONCRETE CURB DETAIL**  
 3/4" = 1'-0"  
 NOTES:  
 1. TOPPING SLAB NOT SHOWN. REFER TO PLAN AND FIELD VERIFY EXISTING CONDITIONS.  
 2. COORDINATE HEIGHT AND EXTENTS OF CURB WITH ARCHITECT.

**9 COLUMN/EXIST CONCRETE CONNECTION DETAIL**  
 3/4" = 1'-0"  
 NOTES:  
 1. NEW COLUMN MAY BE PLACED ON TOP OF (E) TOPPING SLAB. ELEVATION VARIES AND MUST BE VERIFIED BY CONTRACTOR. REFER TO PLAN FOR ADDITIONAL INFORMATION.

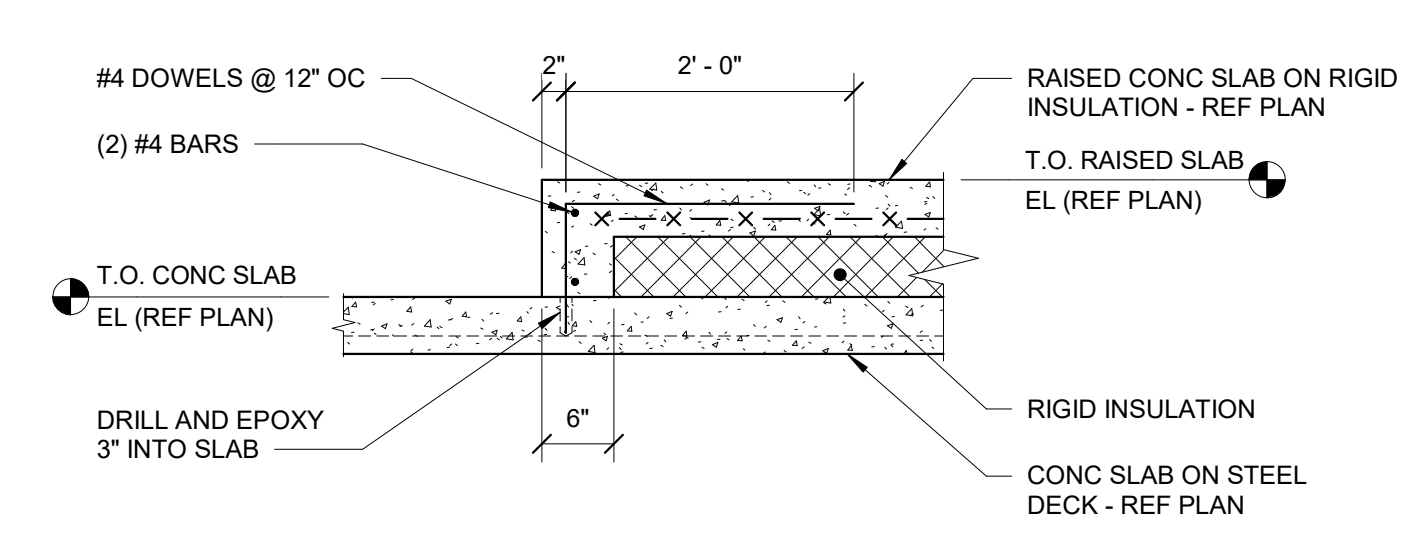
**10 CONCRETE STEP SECTION**  
 3/4" = 1'-0"  
 NOTES:  
 1. PLACE STEPS SUCH THAT RISE IS EQUALLY SPACED, 4" MINIMUM, UP TO A MAXIMUM OF 7".  
 2. REFER TO ARCHITECT FOR STAIR WIDTH, HANDRAILS, GUARDRAILS, ETC.



**11 RAMP SECTION**  
 1/2" = 1'-0"  
 NOTES:  
 1. AT EXISTING SLABS, GRIND OUT A SECTION OF CONCRETE AT THE BASE OF THE RAMP, APPROXIMATELY 1/2" DEEP BY 8" WIDE AND POUR CONCRETE INTO THE NOTCH.



**12 SLAB EDGE DETAIL**  
 3/4" = 1'-0"



**13 RAISED CONC SLAB SECTION**  
 3/4" = 1'-0"

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AE PROJECT NUMBER: 14564

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Office of  
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 and Facilities  
 Management

VA U.S. Department  
 of Veterans  
 Affairs

Drawing Title  
**STEEL DETAILS**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

FULLY SPRINKLERED

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
 01/11/2019

Checked  
 MICALB

Drawn  
 SUJPAD

Project Number  
**438-440**

Building Number  
**5**

Drawing Number  
**SF501**

A

B

C

D

E

F

A

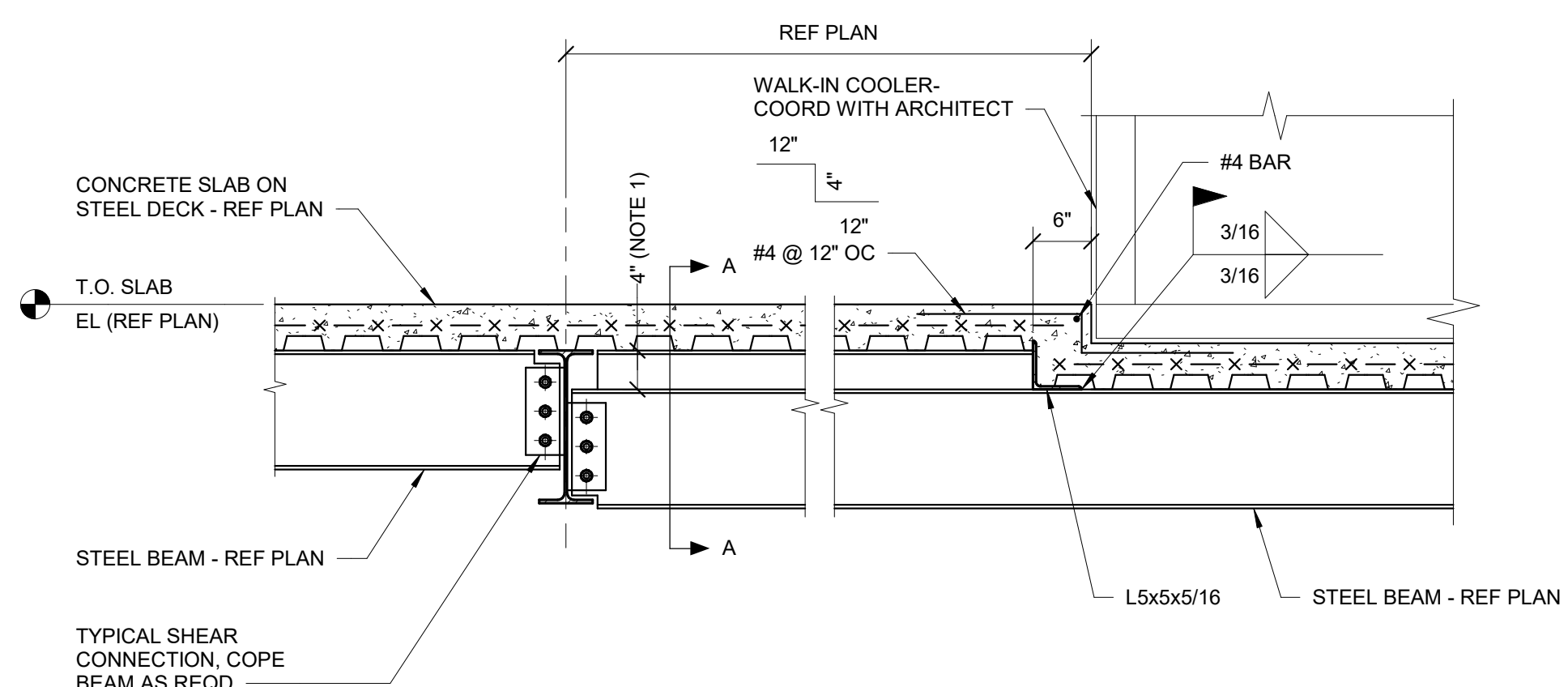
B

C

D

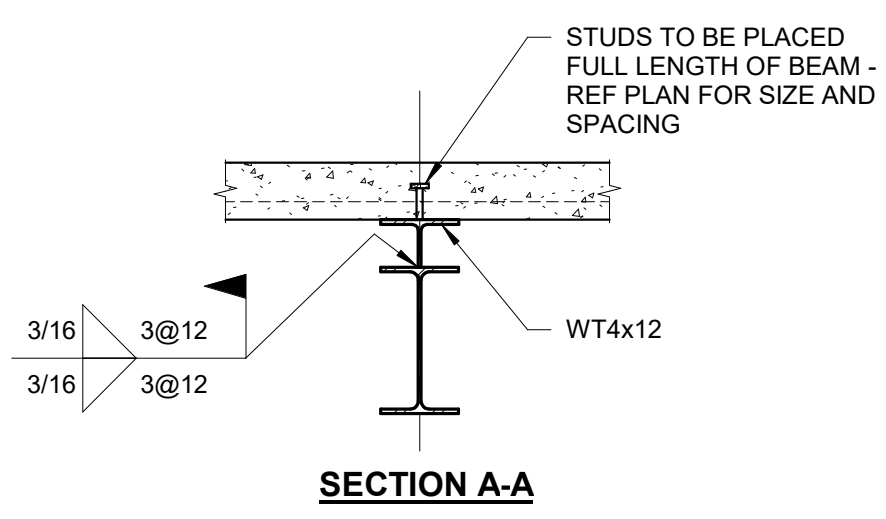
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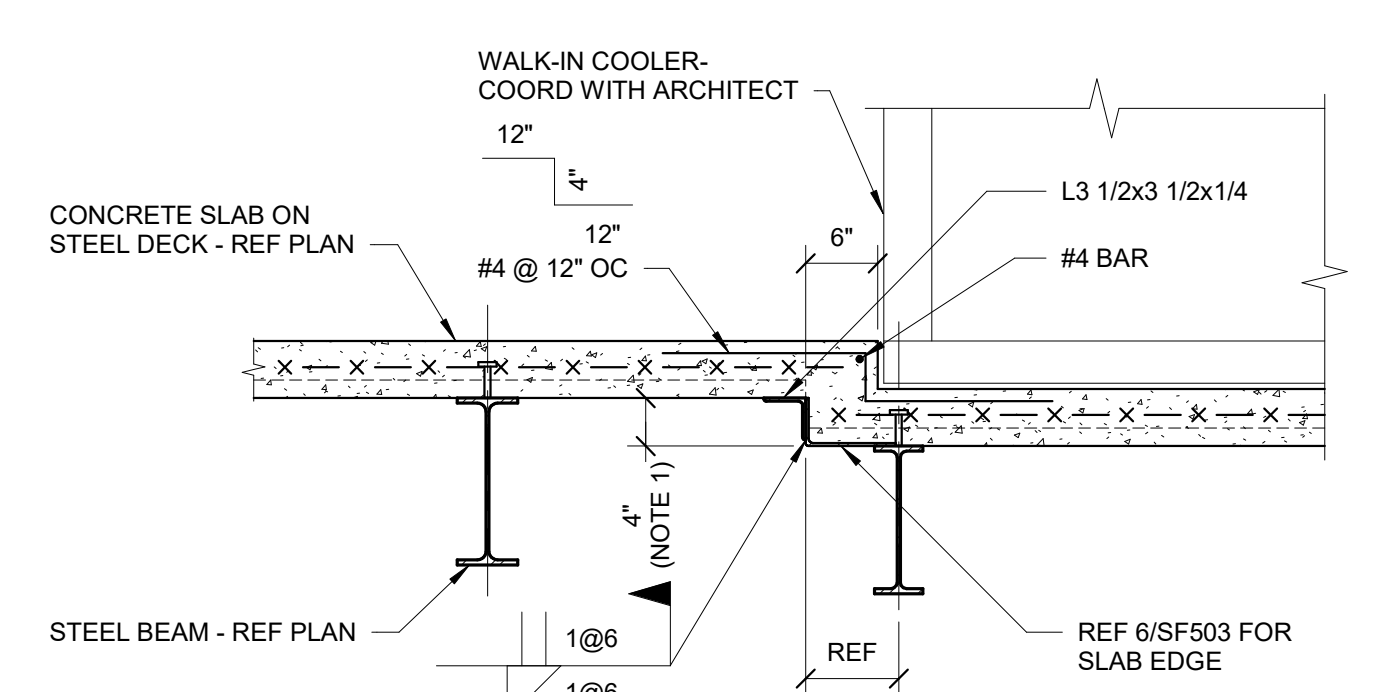


**1 FLOOR SLAB SECTION AT COOLER**

3/4" = 1'-0"  
NOTES:  
1. COORDINATE DEPTH AND EXTENTS OF RECESS WITH COOLER MANUFACTURER.

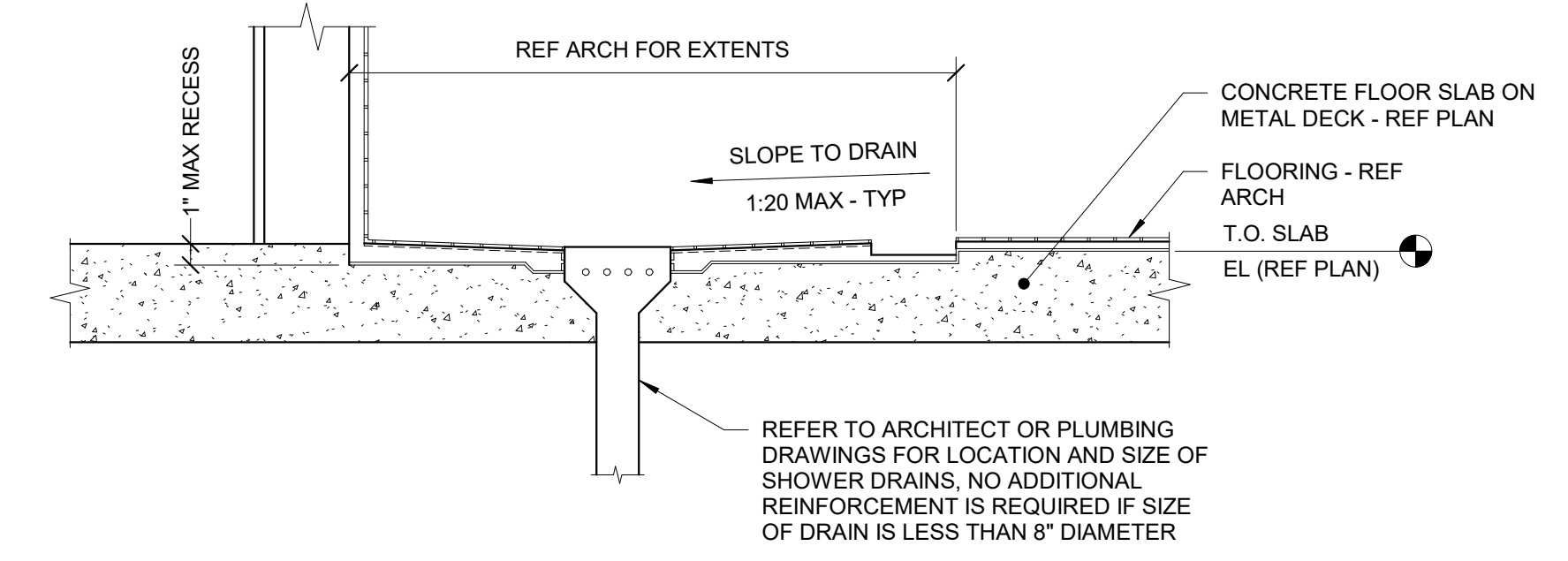


**SECTION A-A**



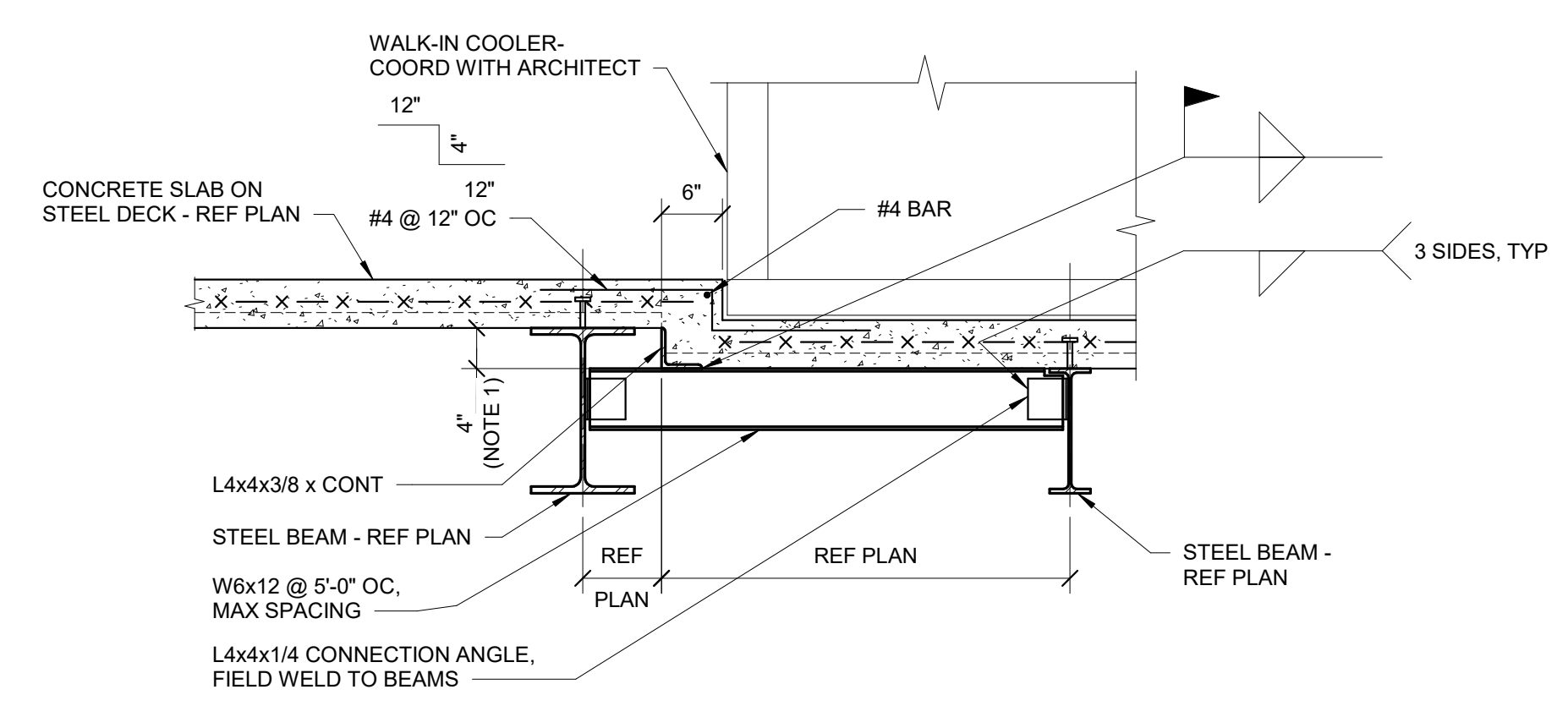
**2 FLOOR SLAB SECTION AT COOLER**

3/4" = 1'-0"  
NOTES:  
1. COORDINATE DEPTH AND EXTENTS OF RECESS WITH COOLER MANUFACTURER.



**3 RECESSED SLAB AT TOILET ROOM DRAIN**

1 1/2" = 1'-0"



**4 ROOF SLAB SECTION AT COOLER**

3/4" = 1'-0"  
NOTES:  
1. COORDINATE DEPTH AND EXTENTS OF RECESS WITH COOLER MANUFACTURER.

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AE PROJECT NUMBER: 14564

**STAMP**

Office of  
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and Facilities  
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U.S. Department  
of Veterans  
Affairs

Drawing Title  
**STEEL DETAILS**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

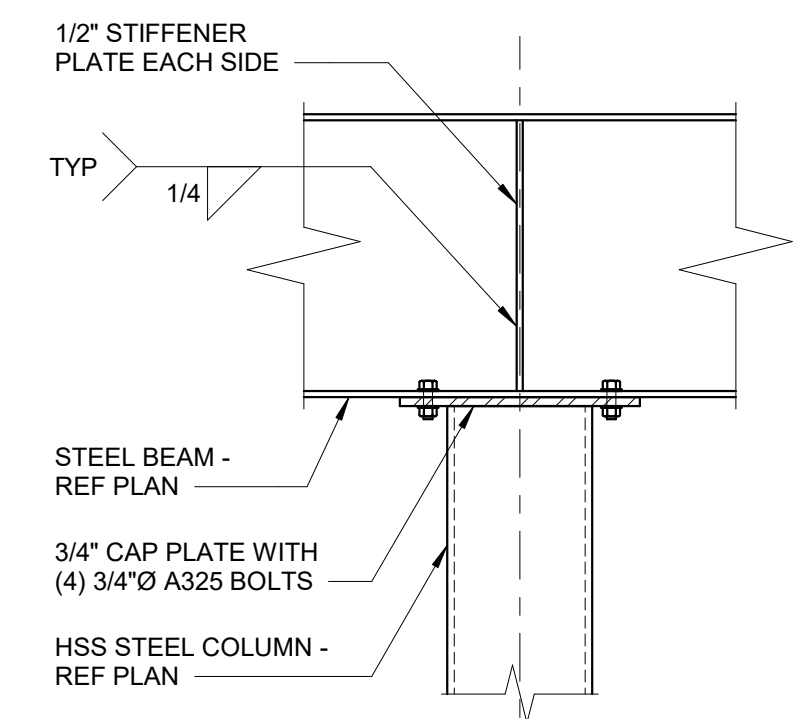
Checked  
MICALB

Drawn  
SUJPAD

Project Number  
**438-440**

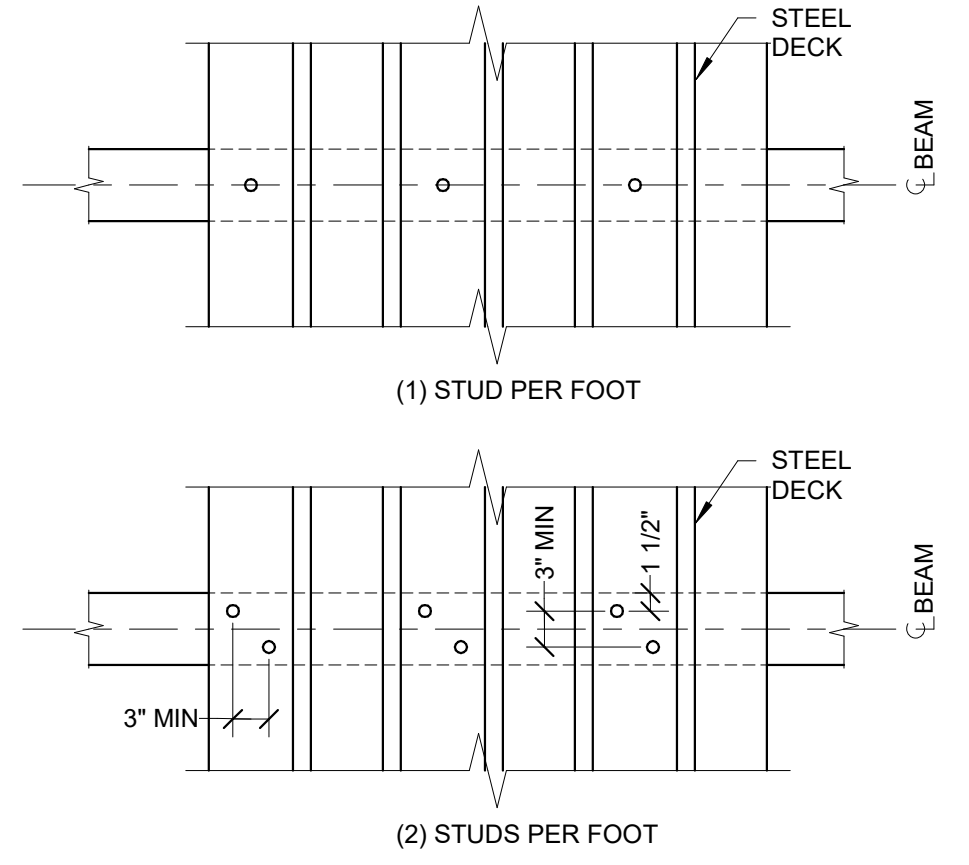
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**5**

Drawing Number  
**SF502**



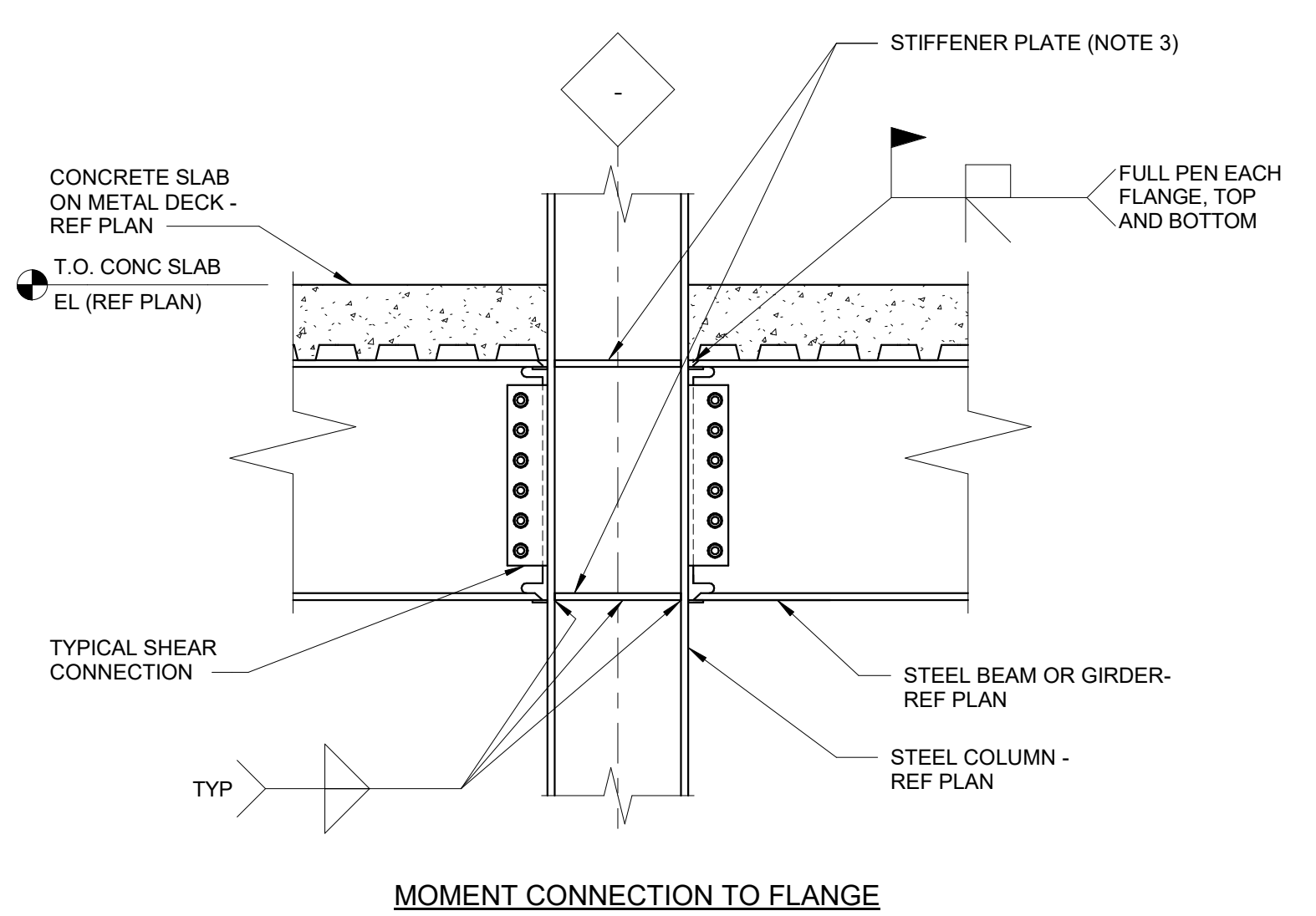
**1 BEAM BEARING ON COLUMN**  
3/4" = 1'-0"

**NOTES:**  
1. AT SIM, EXTEND STIFFENER PLATE ONE ON SIDE AS REQUIRED TO PROVIDE TYPICAL SHEAR CONNECTION TO INTERSECTING BEAM PER 1/SF501.



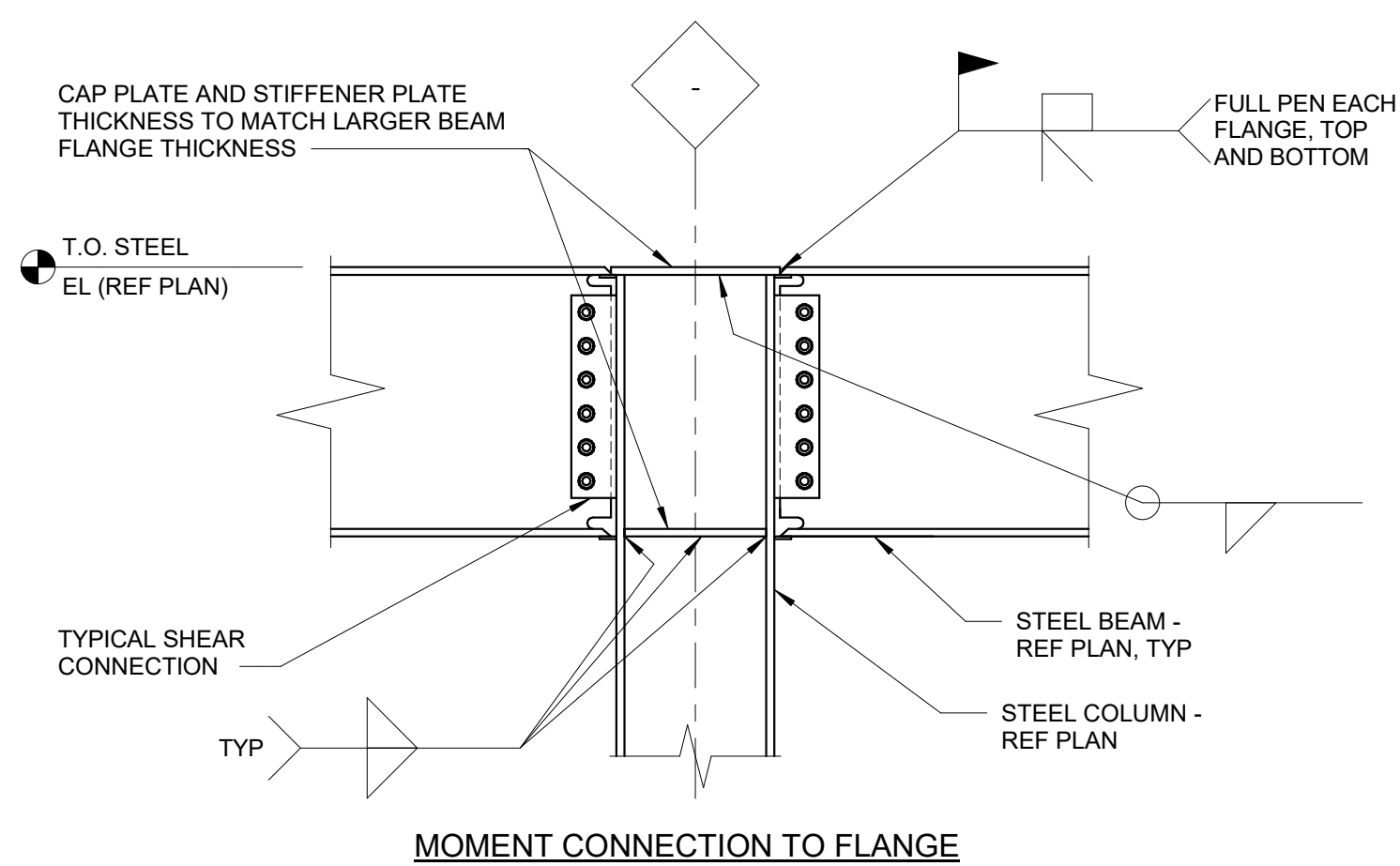
**2 TYPICAL SHEAR STUD SPACING**  
3/4" = 1'-0"

**NOTES:**  
1. WHERE STEEL DECK IS PARALLEL WITH BEAM, LOCATE STUDS ON BEAM CENTERLINE WITH SPACING OF 6" OR 1'-0" OC. REFER TO PLANS FOR NUMBER OF SHEAR STUDS REQUIRED PER FOOT.



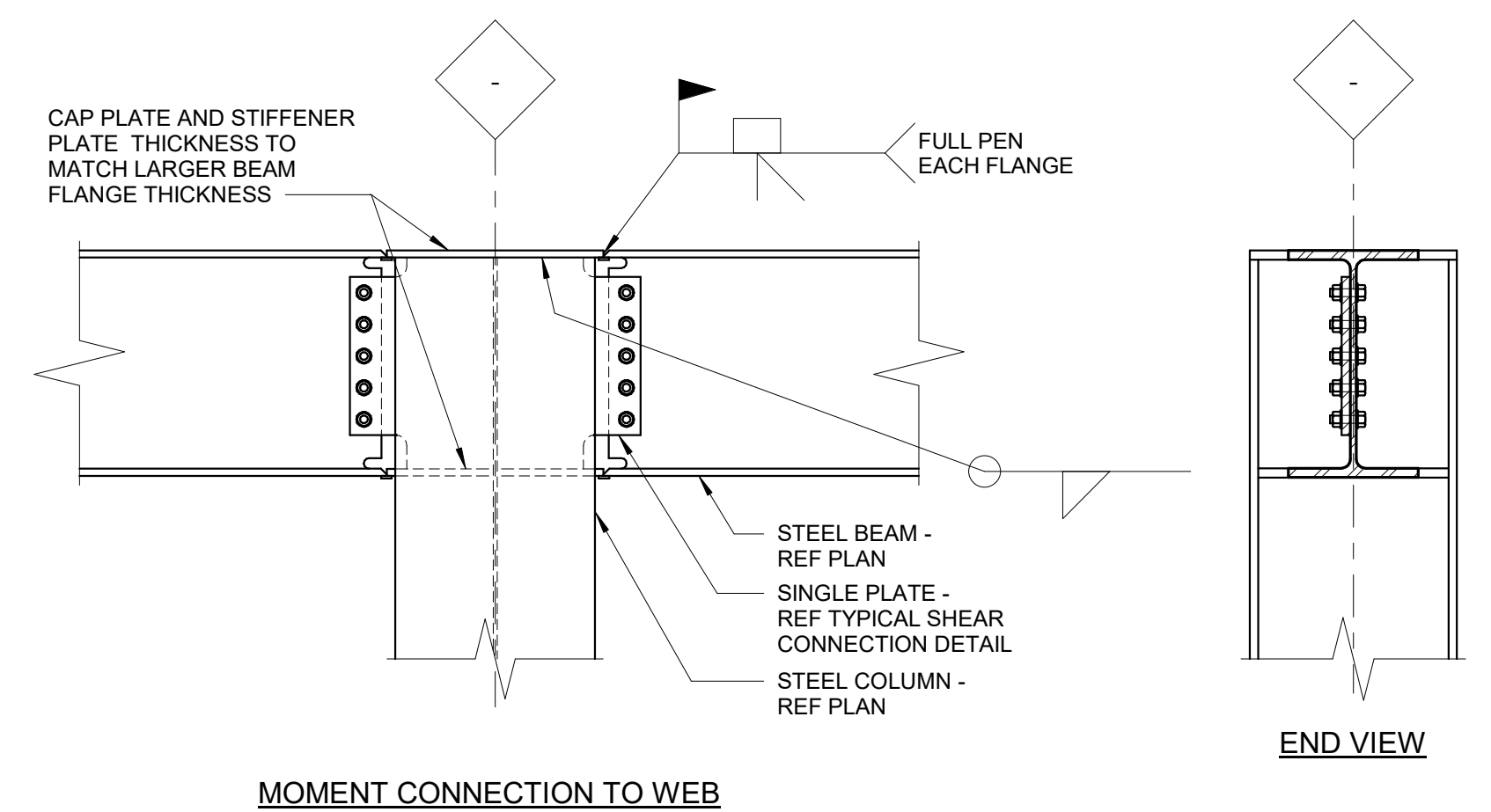
**3 MOMENT CONNECTION AT SECOND LEVEL**  
3/4" = 1'-0"

**NOTES:**  
1. OTHER FRAMING MEMBERS NOT SHOWN FOR CLARITY.  
2. BACKING SHALL BE USED FOR ALL FULL PENETRATION WELDS.  
3. STIFFENER PLATE THICKNESS SHALL MATCH LARGER BEAM FLANGE THICKNESS. USE ASTM A572, GRADE 50 PLATE FOR MOMENT CONNECTIONS.



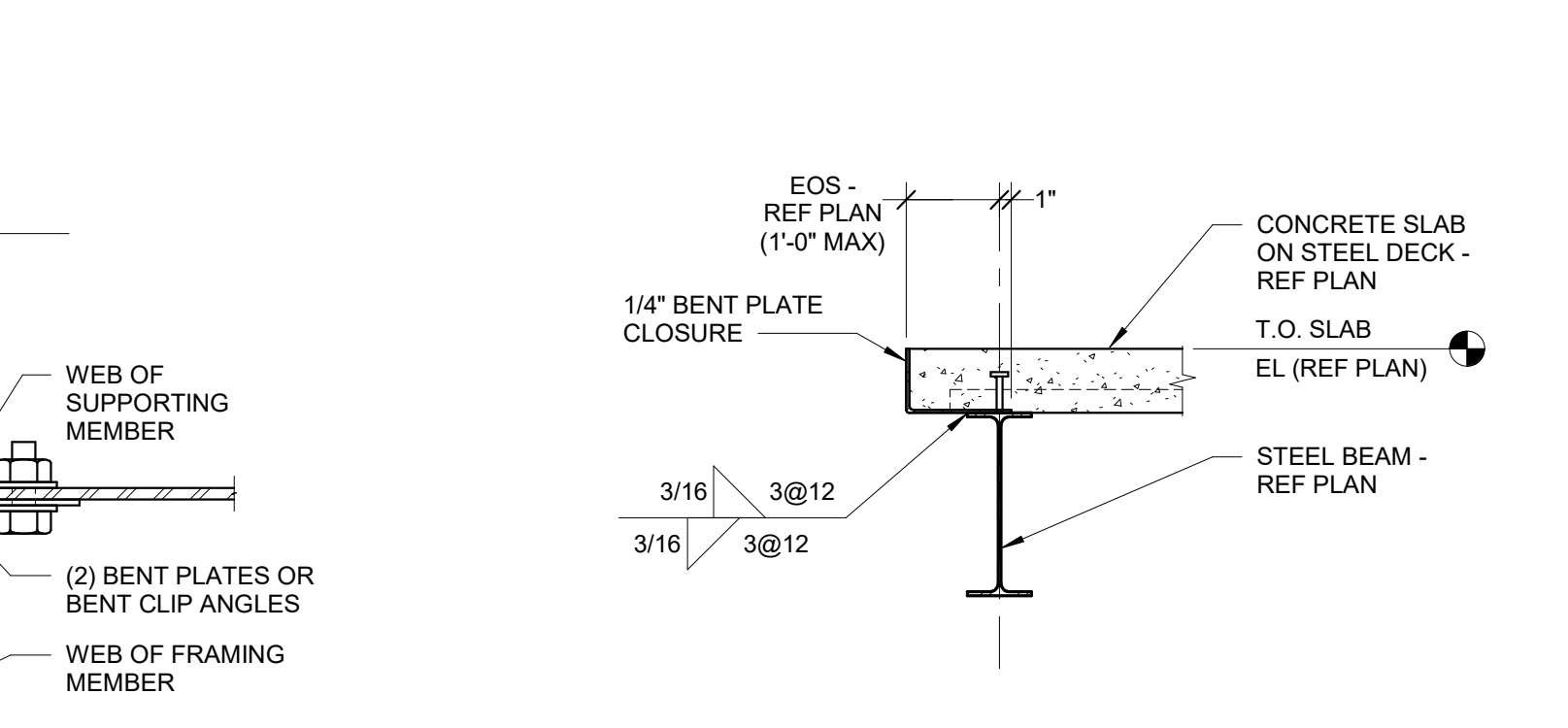
**4 MOMENT CONNECTION TO FLANGE**  
3/4" = 1'-0"

**NOTES:**  
1. FOR HSS COLUMNS, SUBSTITUTE A PARTIAL PENETRATION WELD, ALL AROUND.  
2. STIFFENER PLATE THICKNESS SHALL MATCH LARGER FLANGE THICKNESS OR CONNECTOR PLATE UND. USE ASTM A572, GRADE 50 PLATE FOR MOMENT CONNECTIONS.

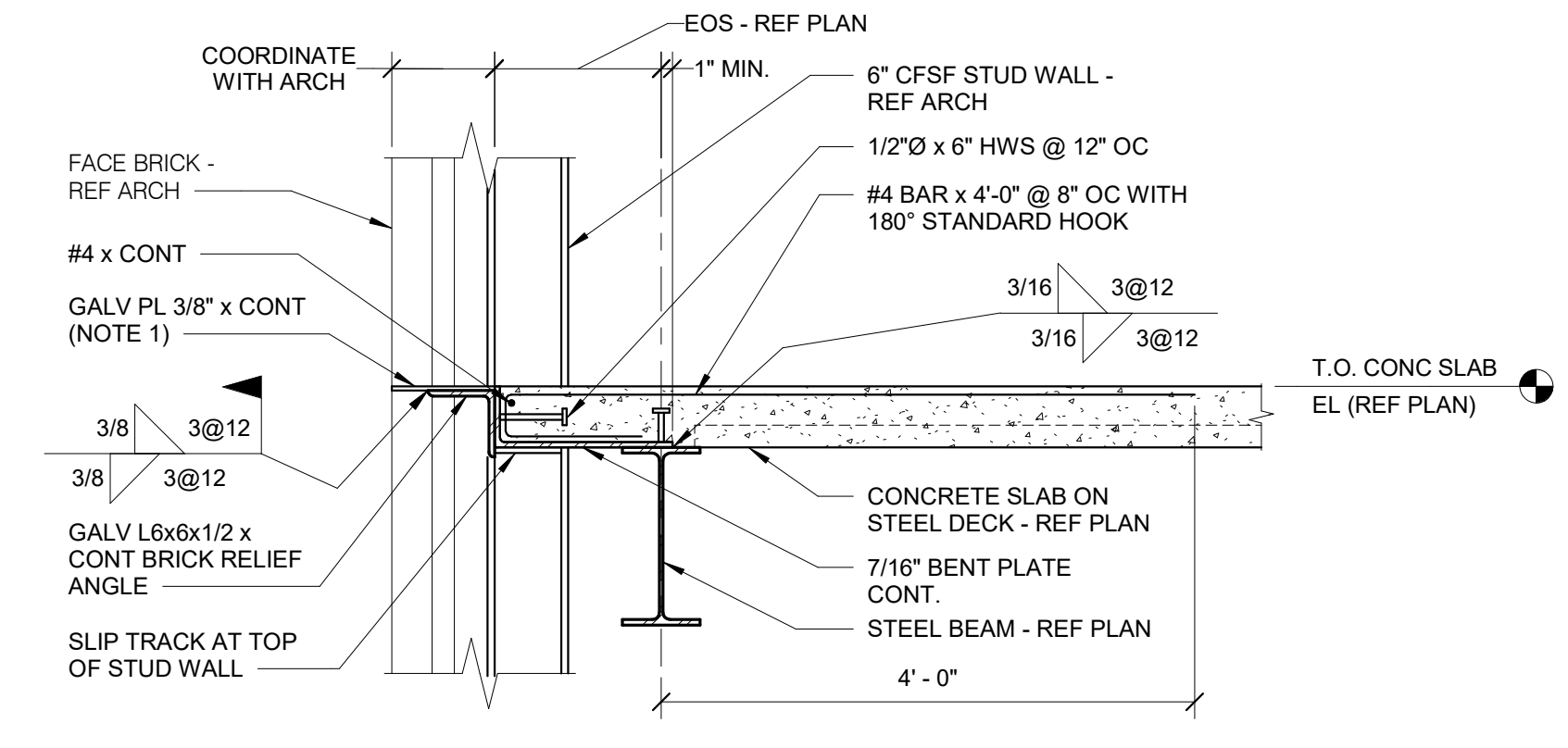


**5 TYPICAL SKEWED CONNECTION**  
3" = 1'-0"

**NOTES:**  
1. DETAILER MAY SELECT DOUBLE BENT ANGLES, DOUBLE BENT PLATES, OR SINGLE KNIFE PLATE AS BEST APPLIES TO CONNECTION.  
2. 'w' IS WELD SIZE FROM TYPICAL SHEAR CONNECTION.

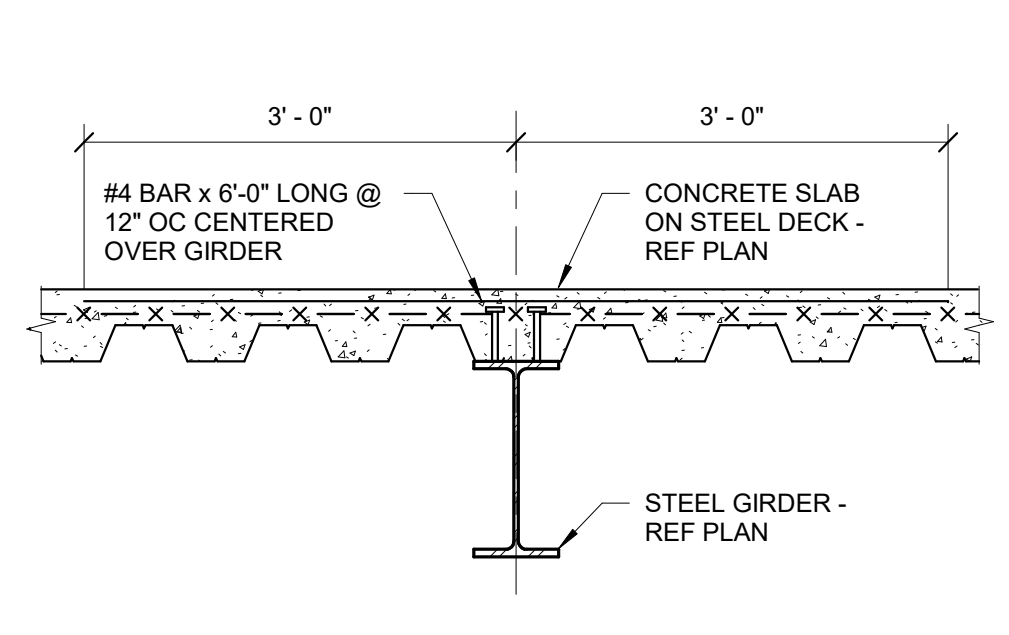


**6 TYPICAL SLAB EDGE DETAIL**  
3/4" = 1'-0"



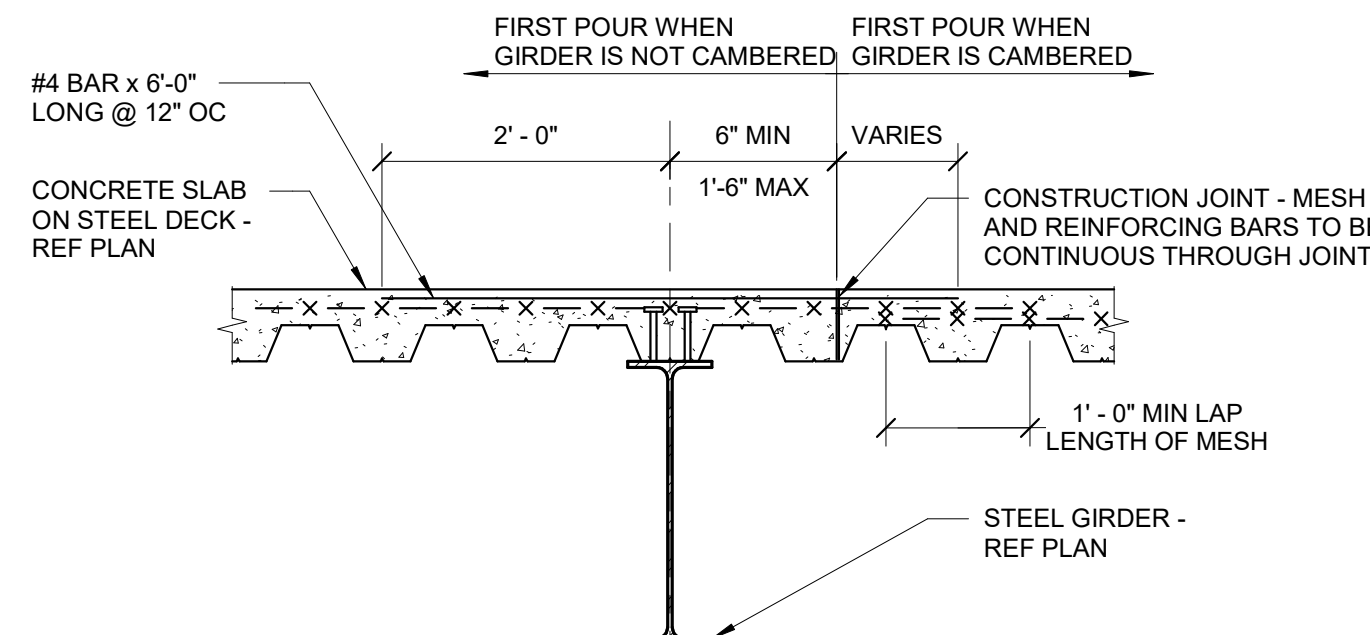
**7 SLAB EDGE WITH BRICK RELIEF ANGLE**  
3/4" = 1'-0"

**NOTES:**  
1. COORDINATE PLACEMENT OF PLATE WITH FACE BRICK. OUTER EDGE OF PLATE TO BE SET 1/2" INSIDE OUTSIDE FACE OF BRICK. WELD TO RELIEF ANGLE WITH 1/4" FILLETS, 3 @ 12" OC, TOP AND BOTTOM.



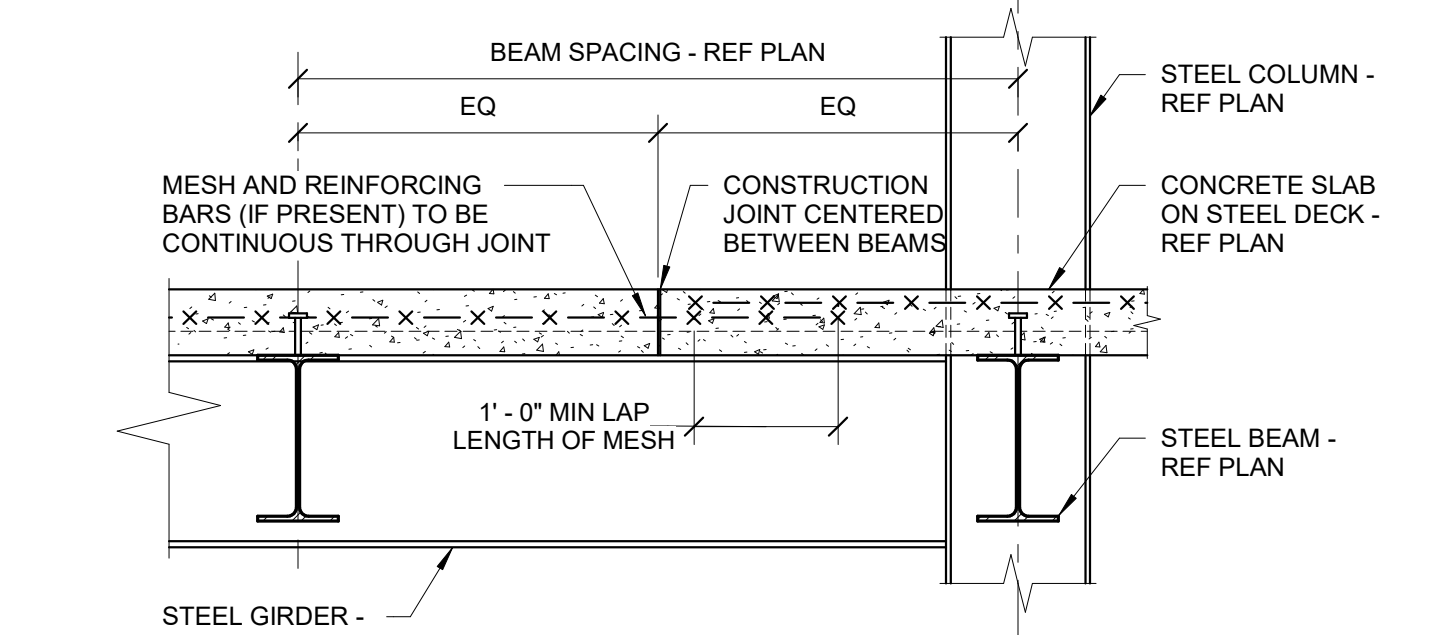
**8 TYPICAL GIRDER DETAIL**  
3/4" = 1'-0"

**NOTES:**  
1. A STEEL GIRDER IS DEFINED AS A STEEL BEAM FRAMING BETWEEN COLUMNS AND SUPPORTING OTHER BEAMS.



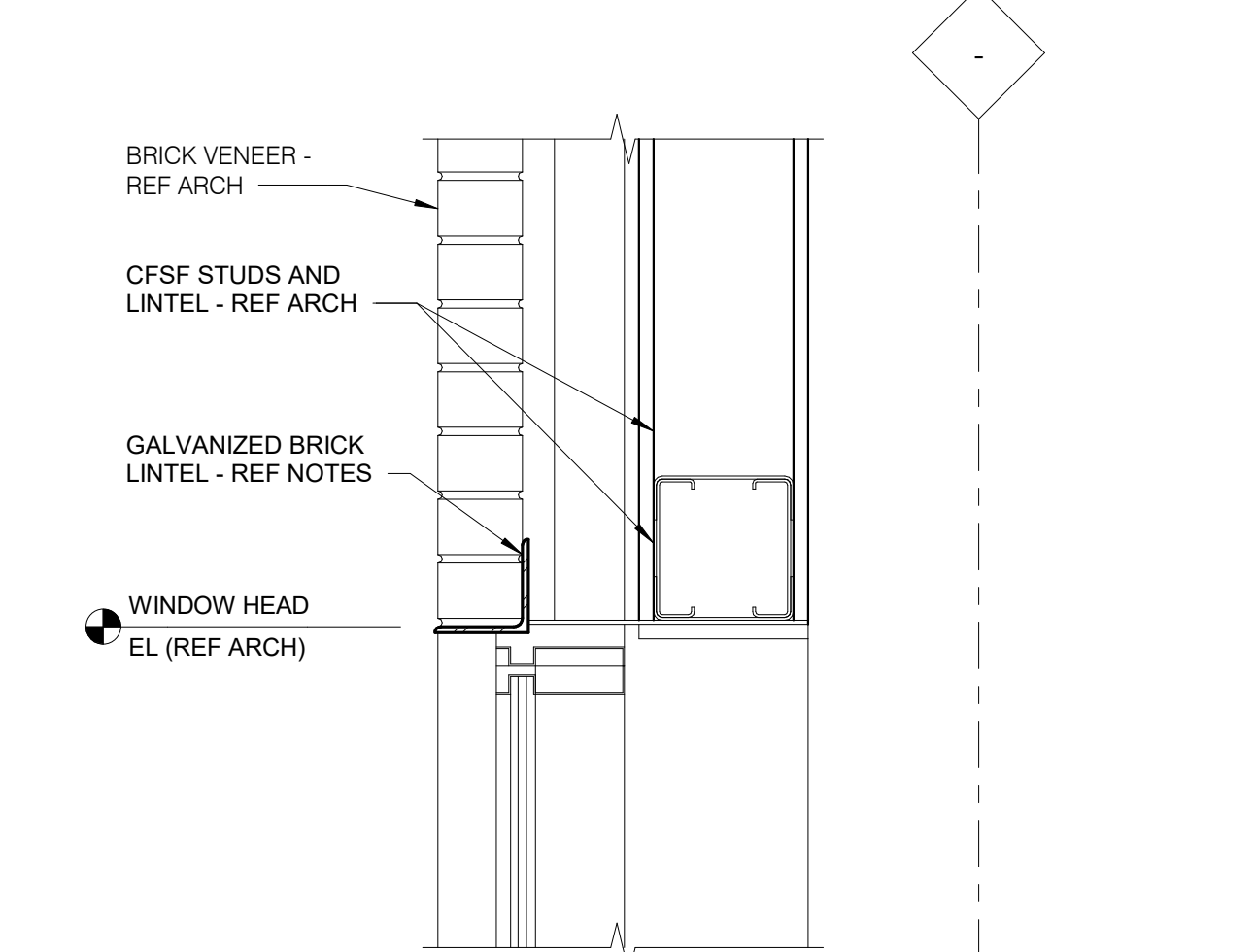
**9 TYPICAL CONSTRUCTION JOINT PARALLEL TO GIRDER DETAIL**  
3/4" = 1'-0"

**NOTES:**  
1. A STEEL GIRDER IS DEFINED AS A STEEL BEAM FRAMING BETWEEN COLUMNS AND SUPPORTING OTHER BEAMS.



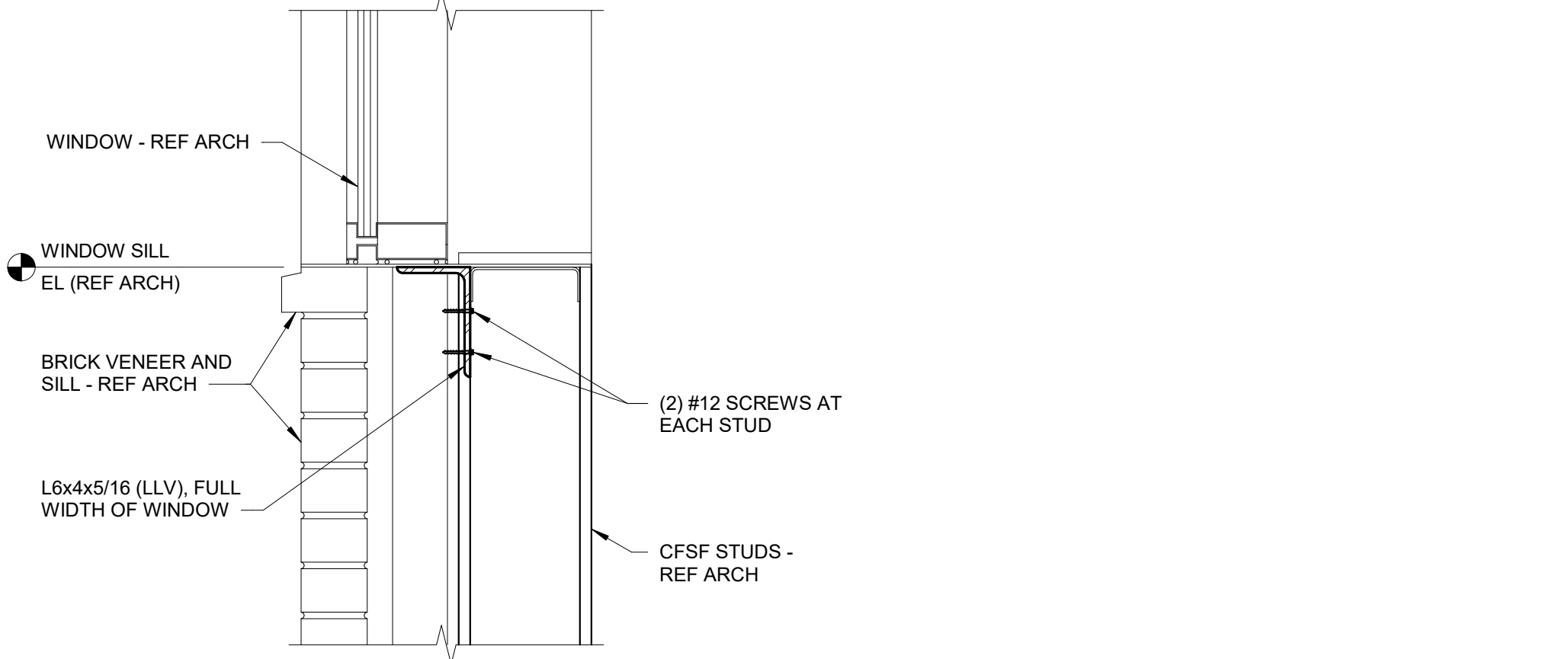
**10 TYPICAL CONSTRUCTION JOINT PERPENDICULAR TO GIRDER DETAIL**  
3/4" = 1'-0"

**NOTES:**  
1. A STEEL GIRDER IS DEFINED AS A STEEL BEAM FRAMING BETWEEN COLUMNS AND SUPPORTING OTHER BEAMS.



**11 TYPICAL BRICK LINTEL SECTION**  
1 1/2" = 1'-0"

**NOTES:**  
1. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR LOCATIONS AND SIZES OF OPENINGS.  
2. ALL OPENINGS IN EXTERIOR WALLS WITH BRICK VENEER SHALL HAVE A LINTEL.  
3. REFER TO GENERAL NOTES AND LINTEL SCHEDULE, SHEET S1000, FOR SIZES AND ADDITIONAL INFORMATION.



**12 TYPICAL BRICK SILL DETAIL**  
1 1/2" = 1'-0"

**NOTES:**  
1. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR LOCATIONS AND SIZES OF WINDOWS.

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AE PROJECT NUMBER: 14564

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STATE OF MINNESOTA  
PAUL  
46600  
PROFESSIONAL ENGINEER

Office of  
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and Facilities  
Management

VA U.S. Department  
of Veterans  
Affairs

Drawing Title  
**FRAMING DETAILS**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

FULLY SPRINKLERED

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

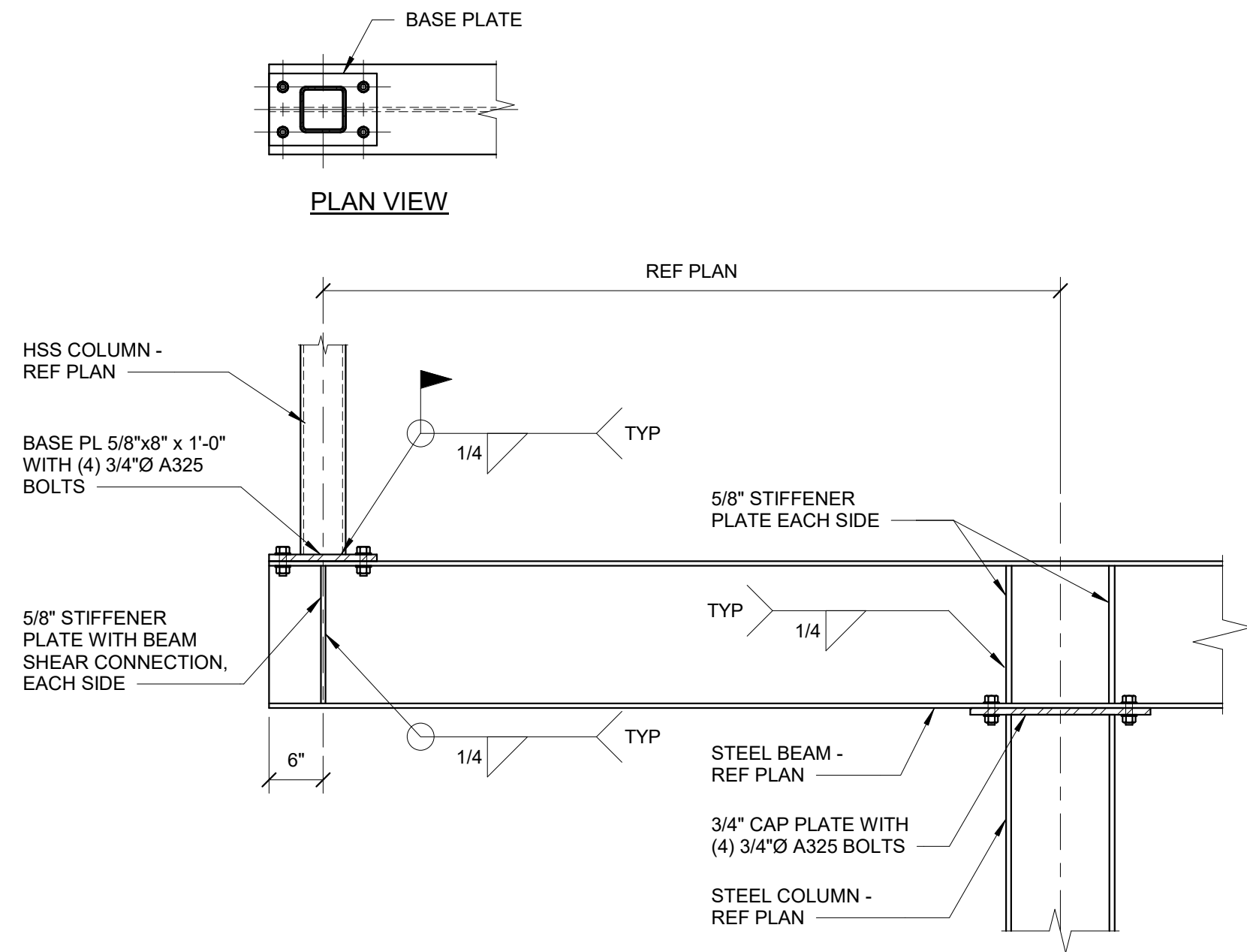
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Project Number  
438-440

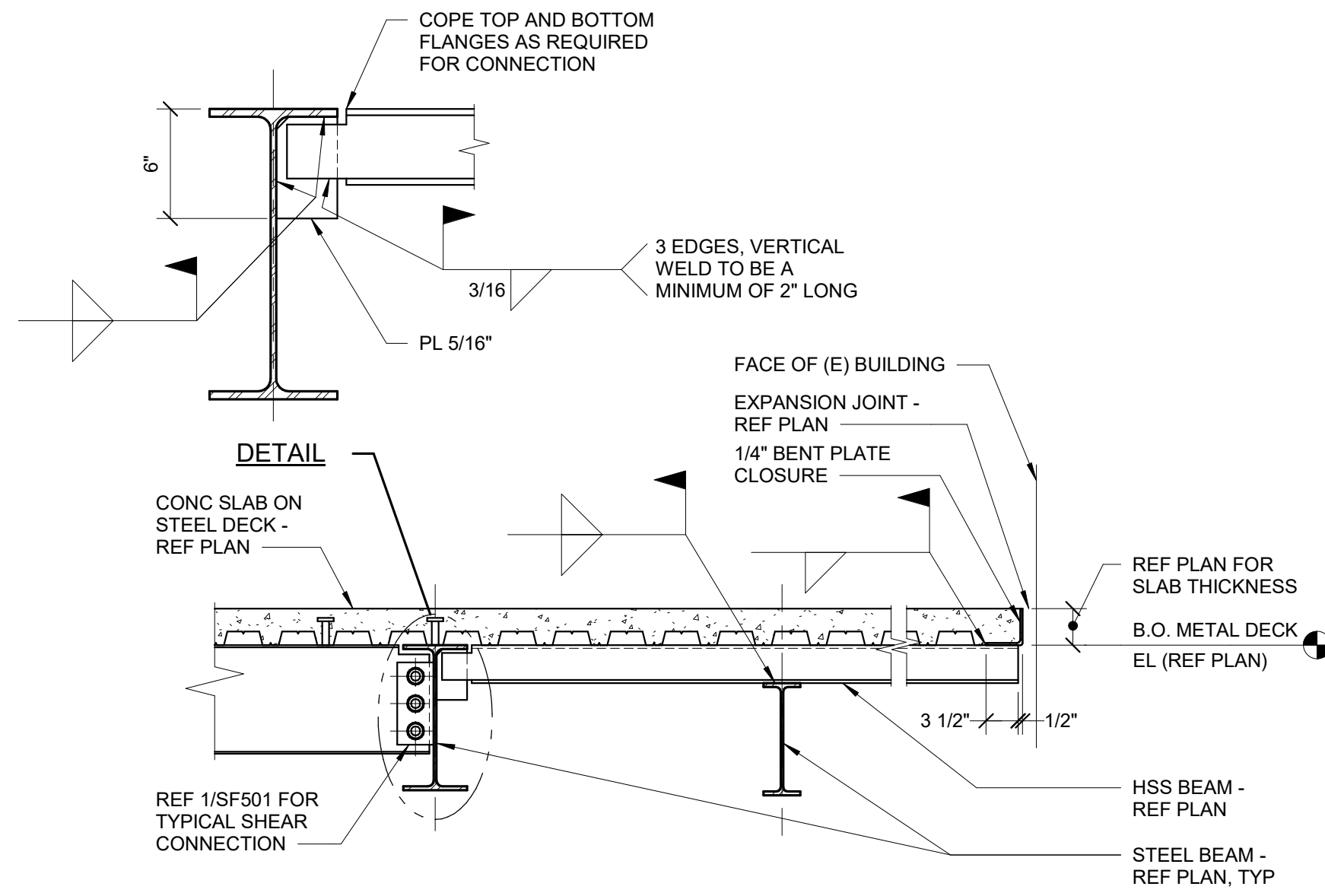
Building Number  
5

Drawing Number  
**SF503**



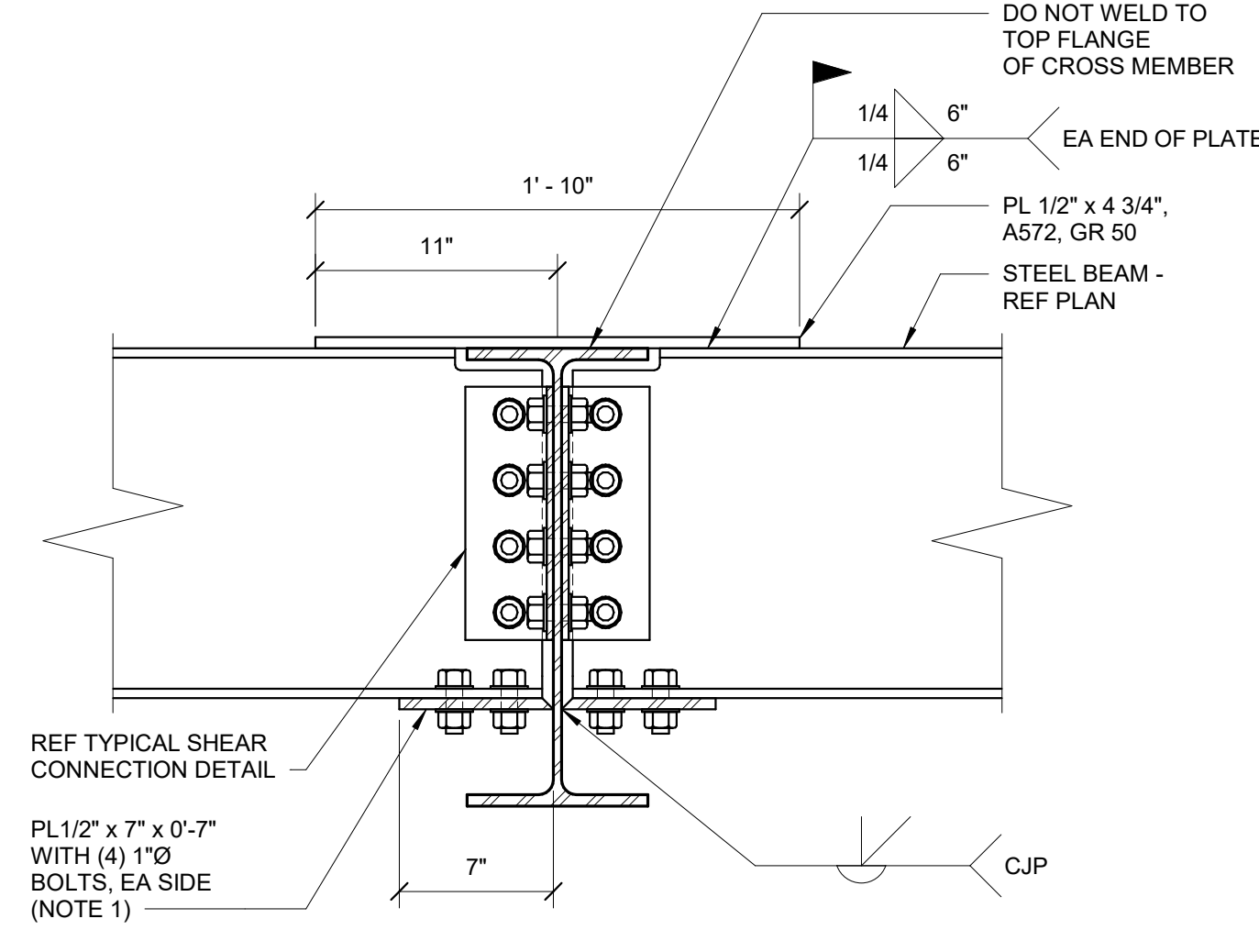
**1 CONNECTION DETAIL**

3/4" = 1'-0"  
 NOTES:  
 1. FLOOR SLAB NOT SHOWN FOR CLARITY.



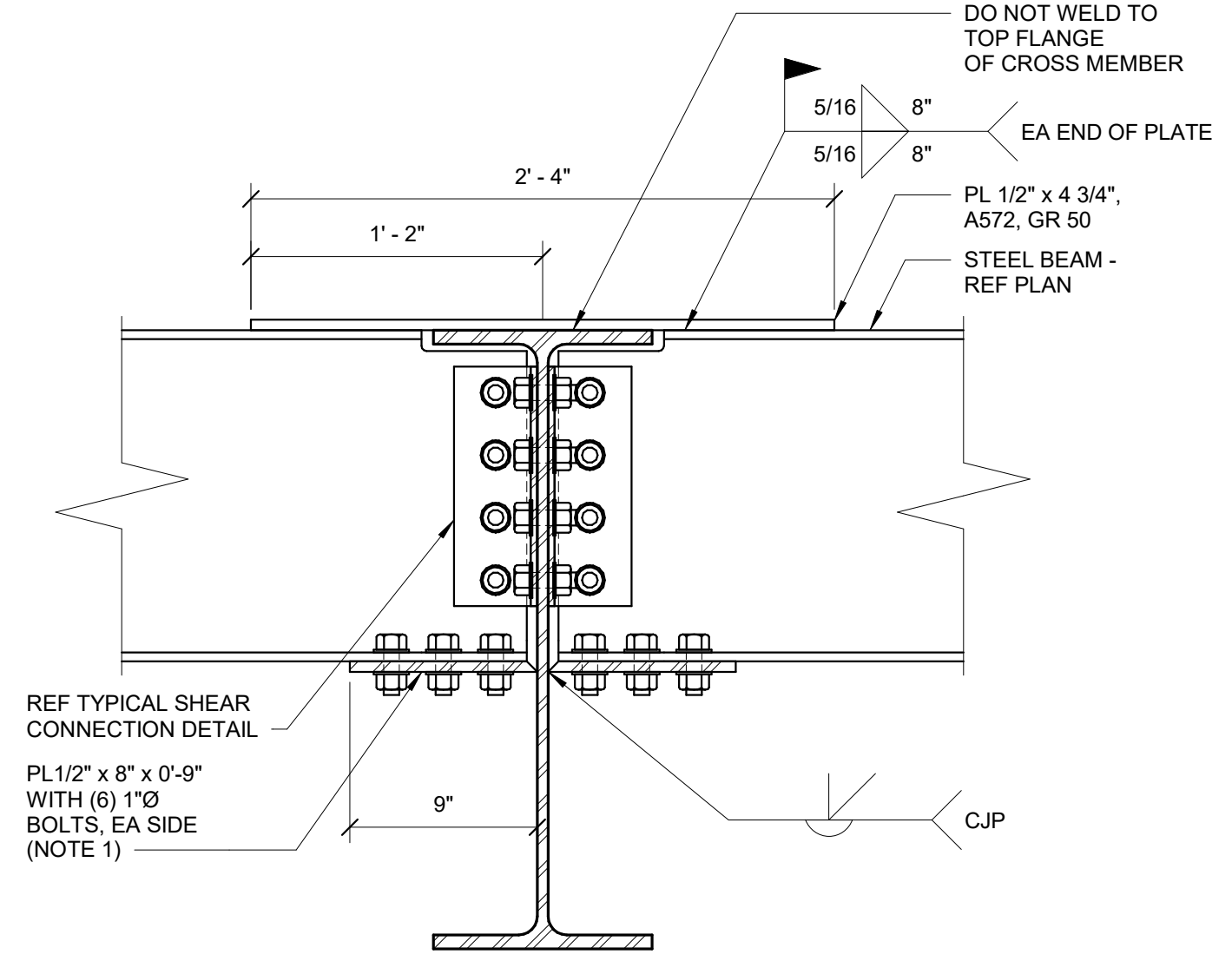
**2 FRAMING SECTION**

3/4" = 1'-0"



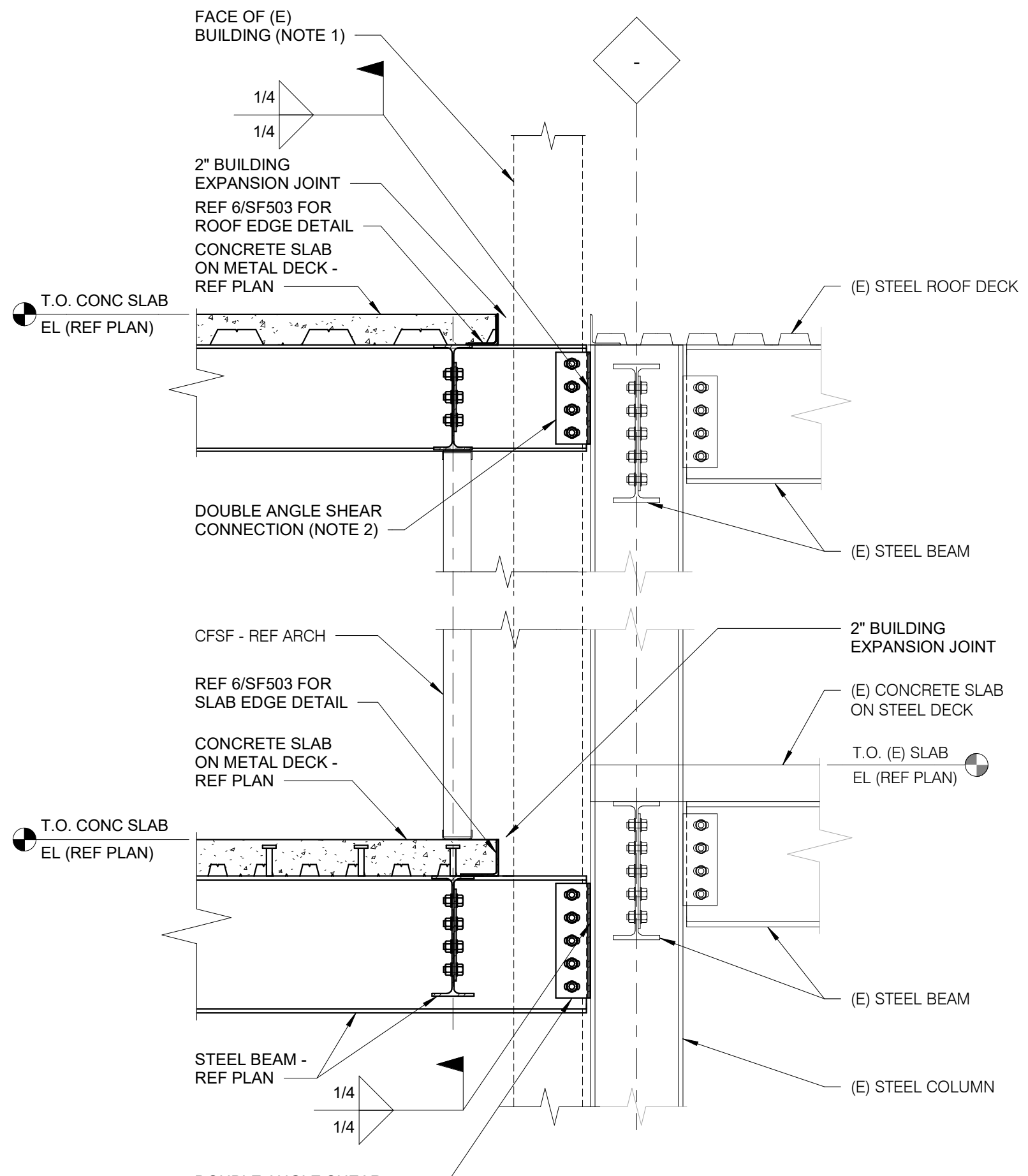
**3 THRU-BEAM MOMENT CONNECTION**

1 1/2" = 1'-0"  
 NOTES:  
 1. BOLTS IN BOTTOM FLANGE CONNECTION TO BE SLIP-CRITICAL WITH STANDARD SIZE HOLES. DO NOT PAINT STEEL AT SLIP-CRITICAL CONNECTIONS.



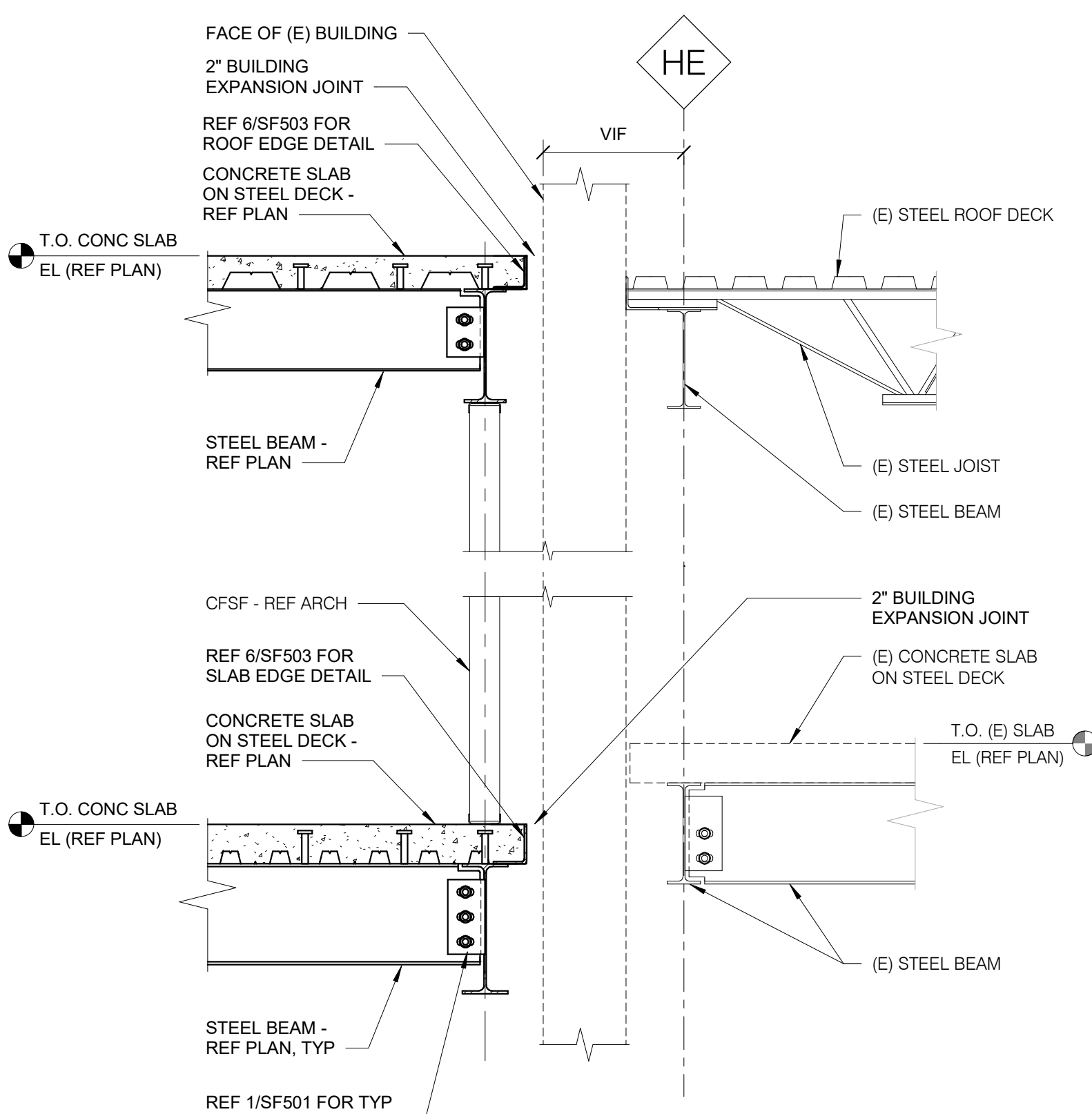
**4 THRU-BEAM MOMENT CONNECTION**

1 1/2" = 1'-0"  
 NOTES:  
 1. BOLTS IN BOTTOM FLANGE CONNECTION TO BE SLIP-CRITICAL WITH STANDARD SIZE HOLES. DO NOT PAINT STEEL AT SLIP-CRITICAL CONNECTIONS.



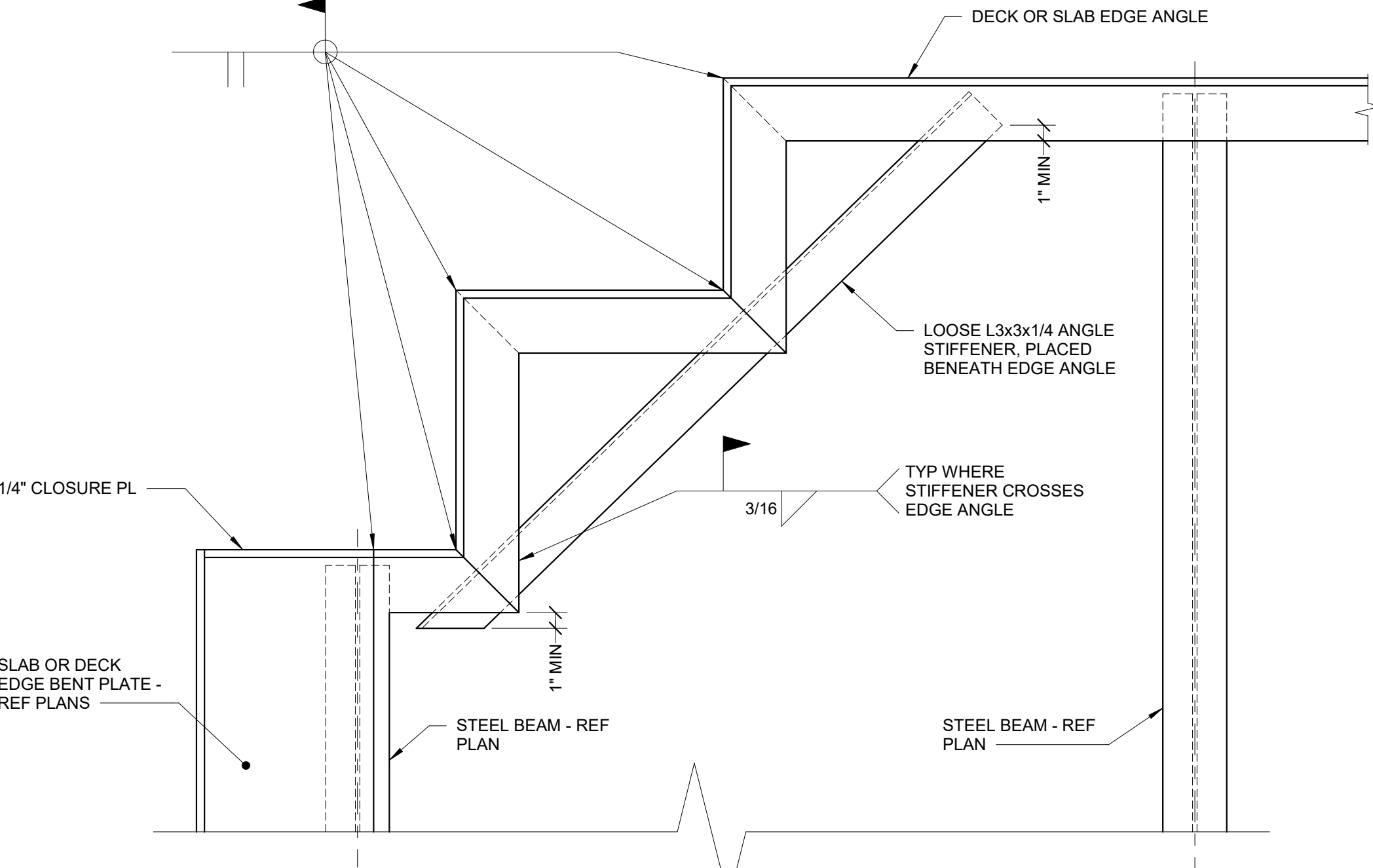
**5 NEW / EXISTING BUILDING SECTION AT COLUMN**

3/4" = 1'-0"  
 NOTES:  
 1. REMOVE EXISTING BUILDING FINISHES AS REQUIRED TO ATTACH STRUCTURE TO EXISTING COLUMN.  
 2. REFER TO 1/SF501 FOR TYPICAL STEEL SHEAR CONNECTION AND ANGLE SIZE.  
 3. AT SIM, STEEL BEAM ELEVATIONS VARY ON THE SECOND FLOOR. REFER TO PLAN.



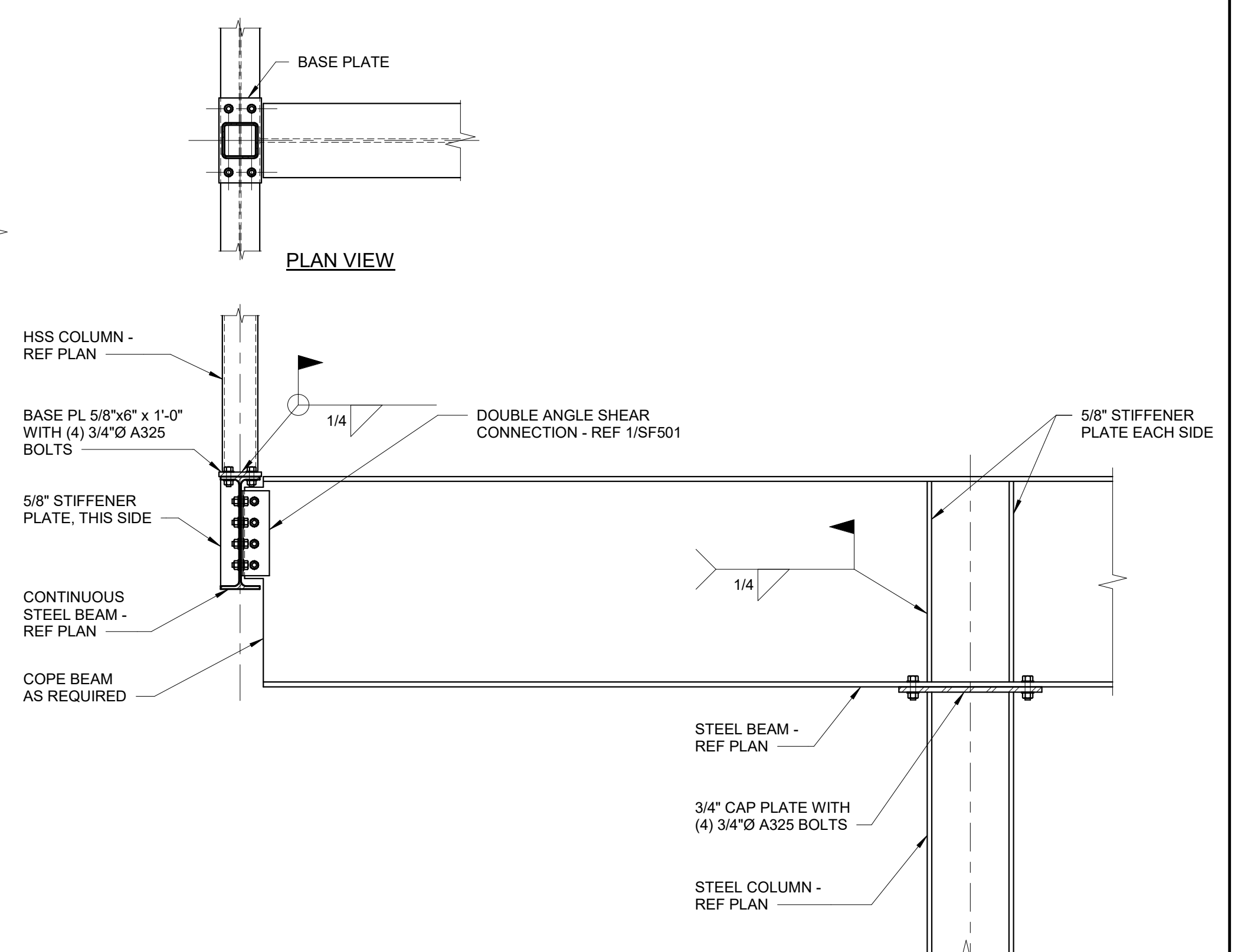
**6 TYPICAL NEW / EXISTING BUILDING SECTION**

3/4" = 1'-0"  
 NOTES:  
 1. AT SIM, CONNECTIONS ARE SKEWED. REFER TO PLAN.



**7 EDGE ANGLE DETAIL**

1 1/2" = 1'-0"



**8 CONNECTION DETAIL**

3/4" = 1'-0"  
 NOTES:  
 1. FLOOR SLAB NOT SHOWN FOR CLARITY.

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**ARCHITECT/ENGINEER OF RECORD**

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 Suite 100  
 Plymouth, MN 55441  
 763-412-4000 (o) 763-412-4090 (f)  
 www.ae-mn.com

AE PROJECT NUMBER: 14564

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Office of  
 Construction  
 and Facilities  
 Management

VA U.S. Department  
 of Veterans  
 Affairs

Drawing Title  
**FRAMING DETAILS**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

FULLY SPRINKLERED

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
 01/11/2019

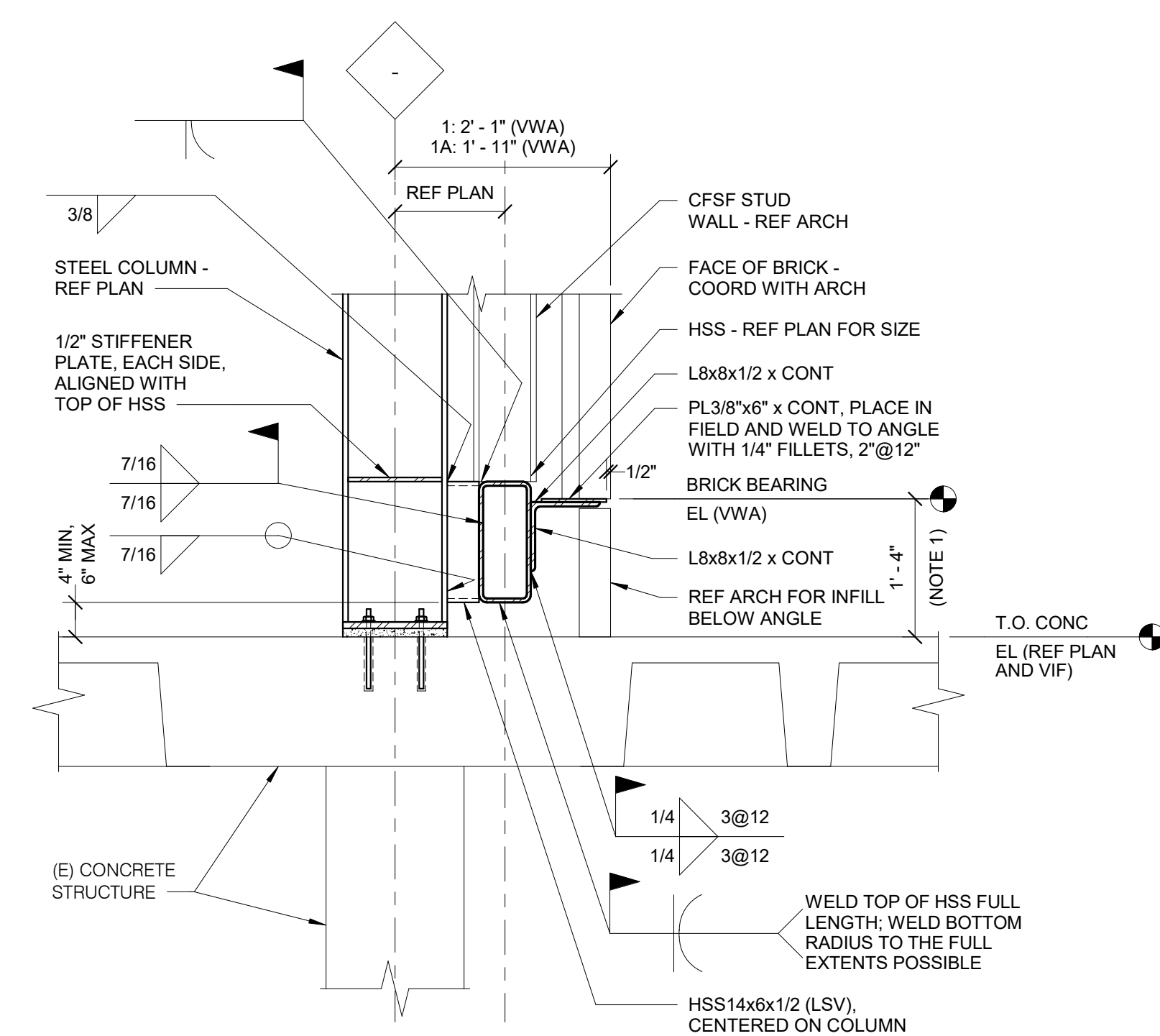
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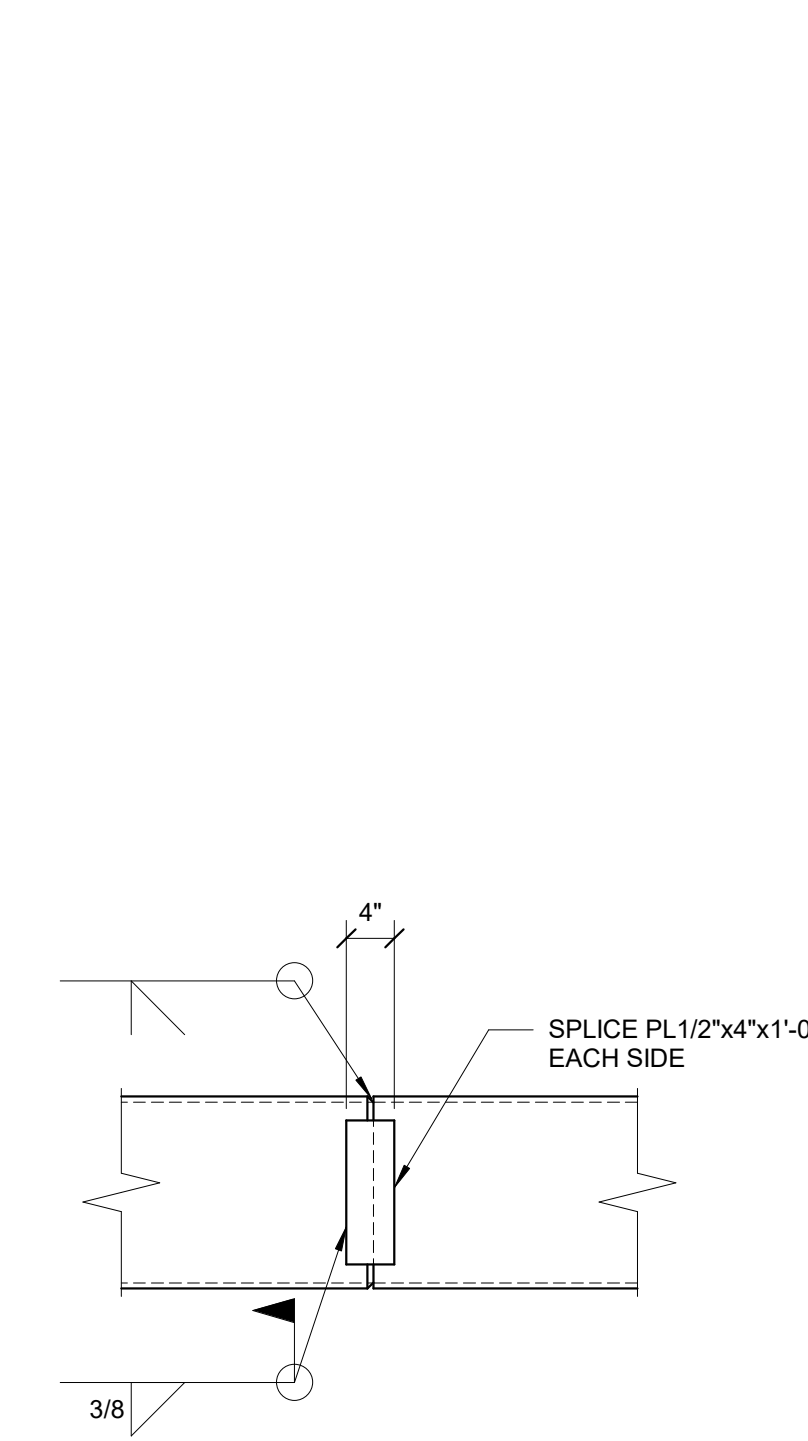
Project Number  
**438-440**

Building Number  
**5**

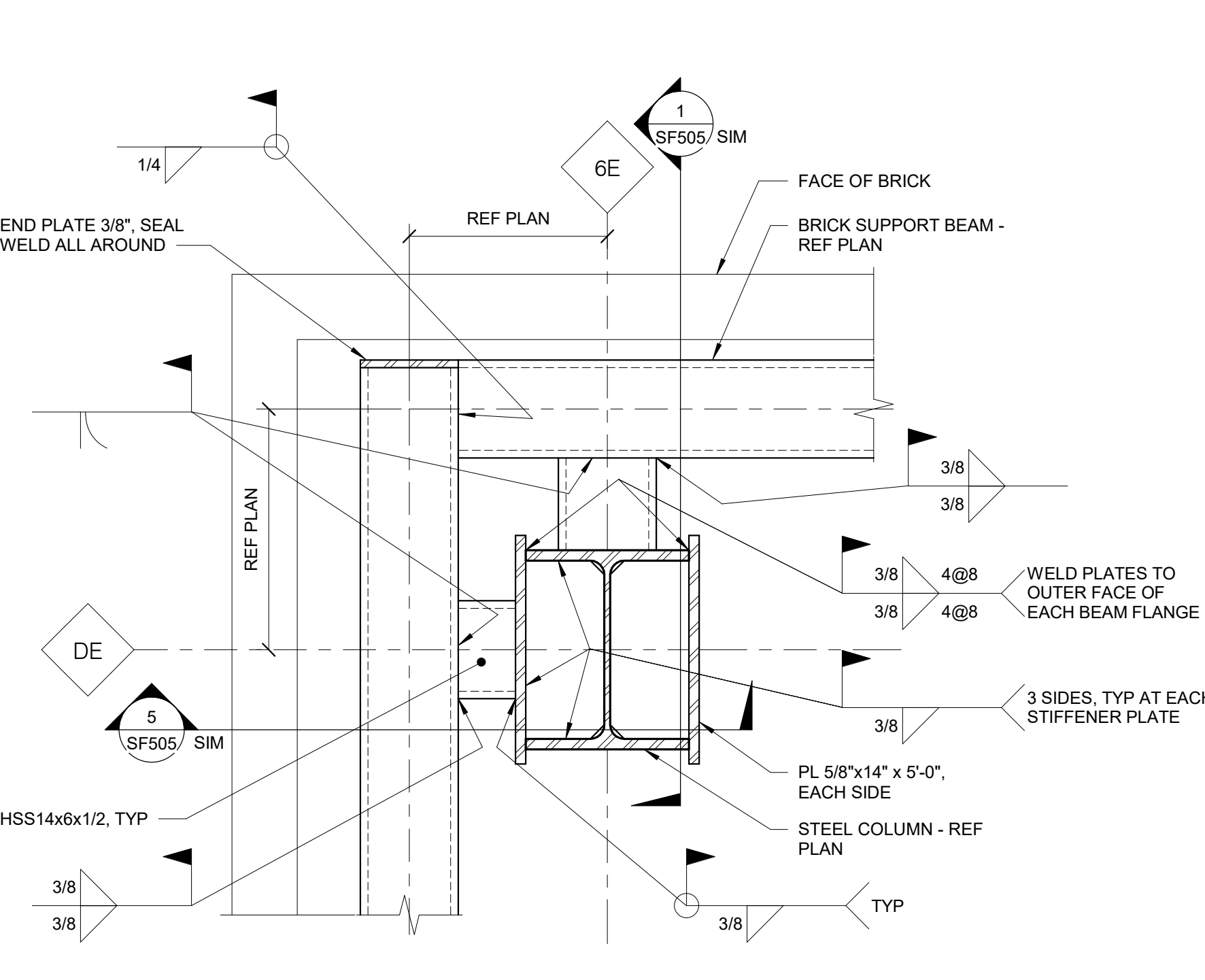
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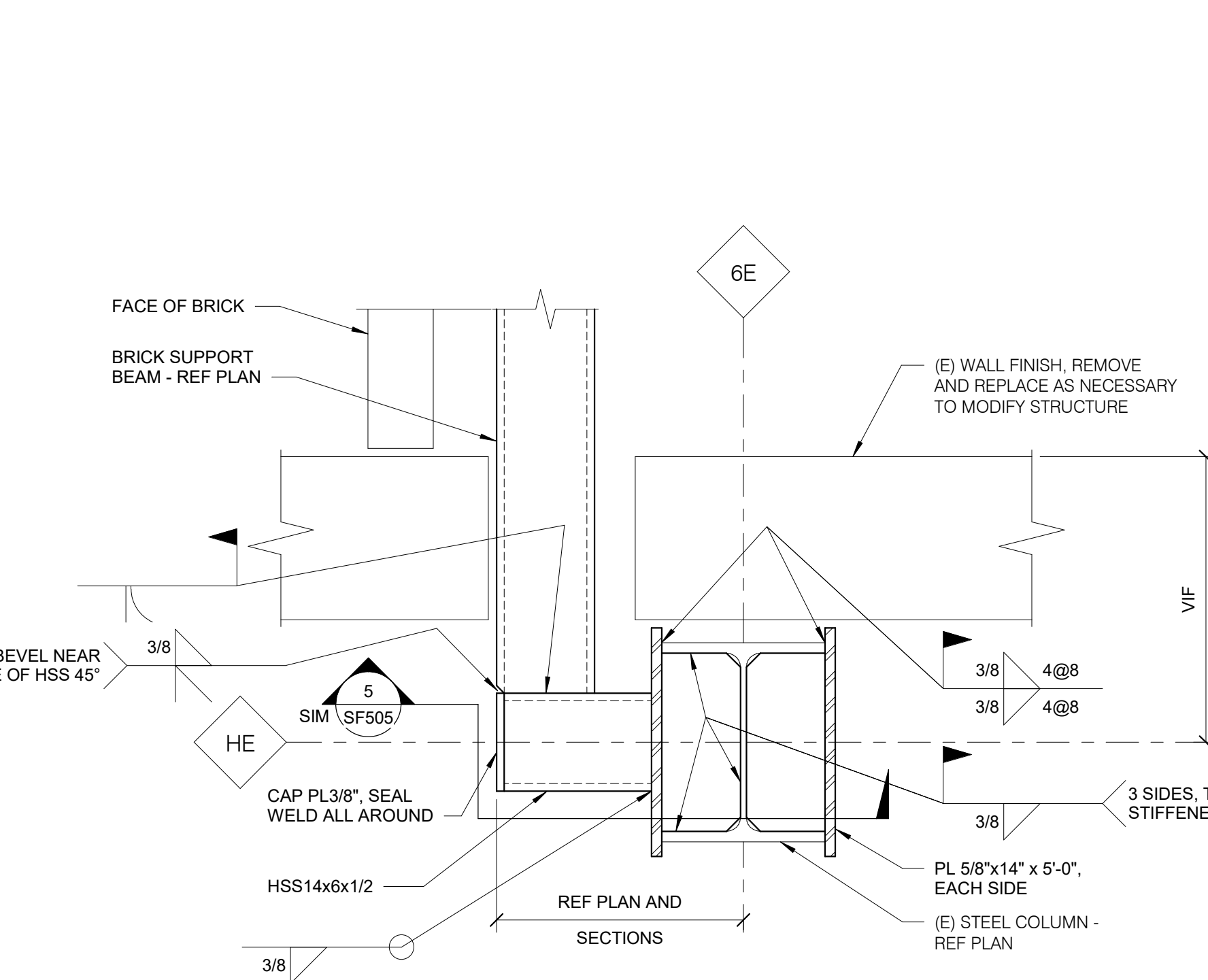
**1A 1 FRAMING DETAIL**  
 3/4" = 1'-0"  
 NOTES:  
 1. FIELD VERIFY TOP OF EXISTING ROOF SLAB ELEVATION AND SET DIMENSION TO BOTTOM OF STEEL ANGLE SO THAT BRICK ANGLE COURSING MATCHES ARCHITECTURAL ELEVATIONS.  
 2. REFER TO 2/SF505 FOR HSS SPLICE DETAIL.



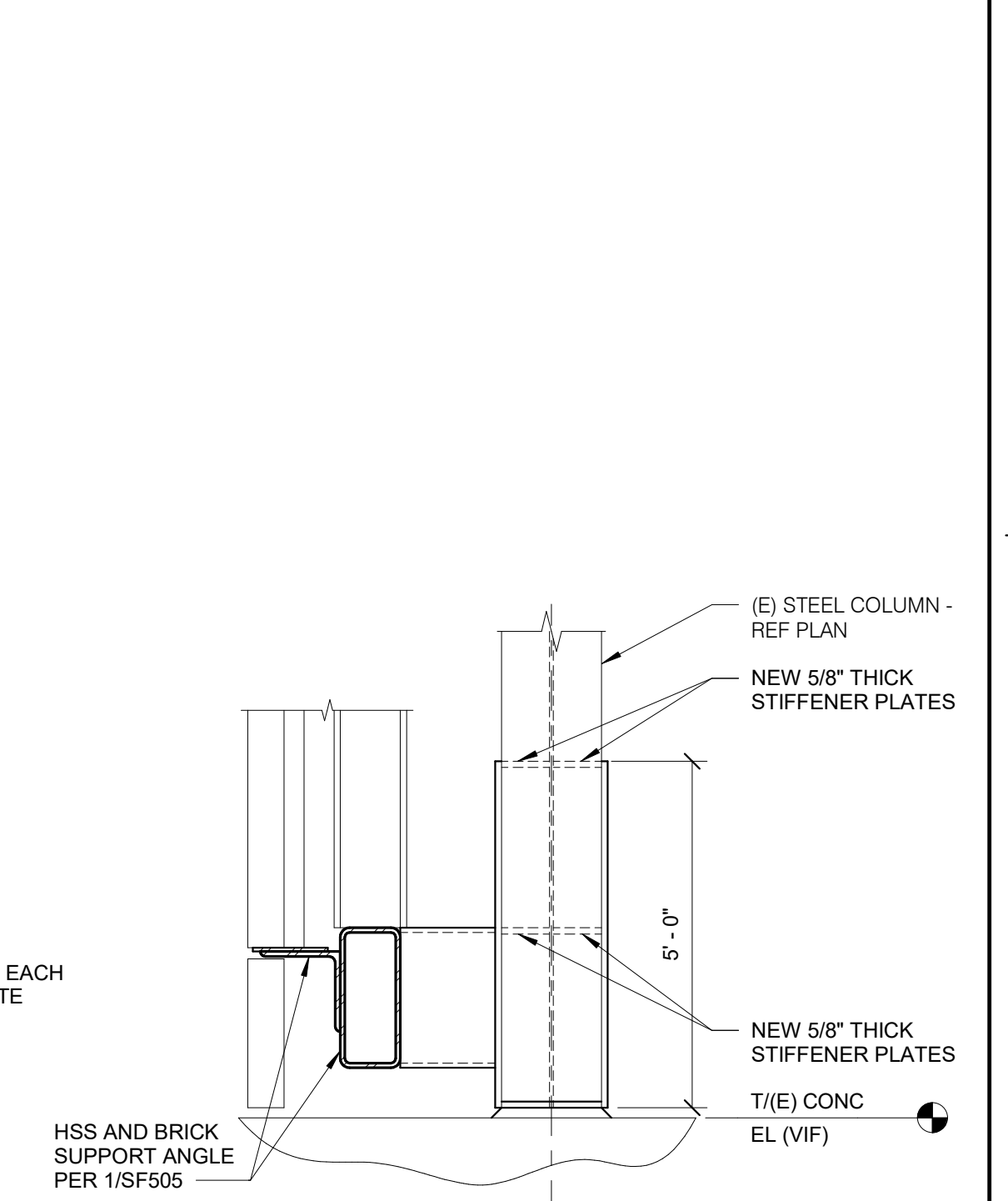
**2 HSS SPLICE DETAIL**  
 3/4" = 1'-0"  
 NOTES:  
 1. LOCATE SPLICES AT 1/3 OF BEAM SPAN.  
 2. APPLY SPLICE PLATES TO HSS AFTER FULL PEN WELD.  
 3. WELD HSS TO CREATE A CONTINUOUS MEMBER BEFORE HOISTING AND ATTACHING TO COLUMNS.



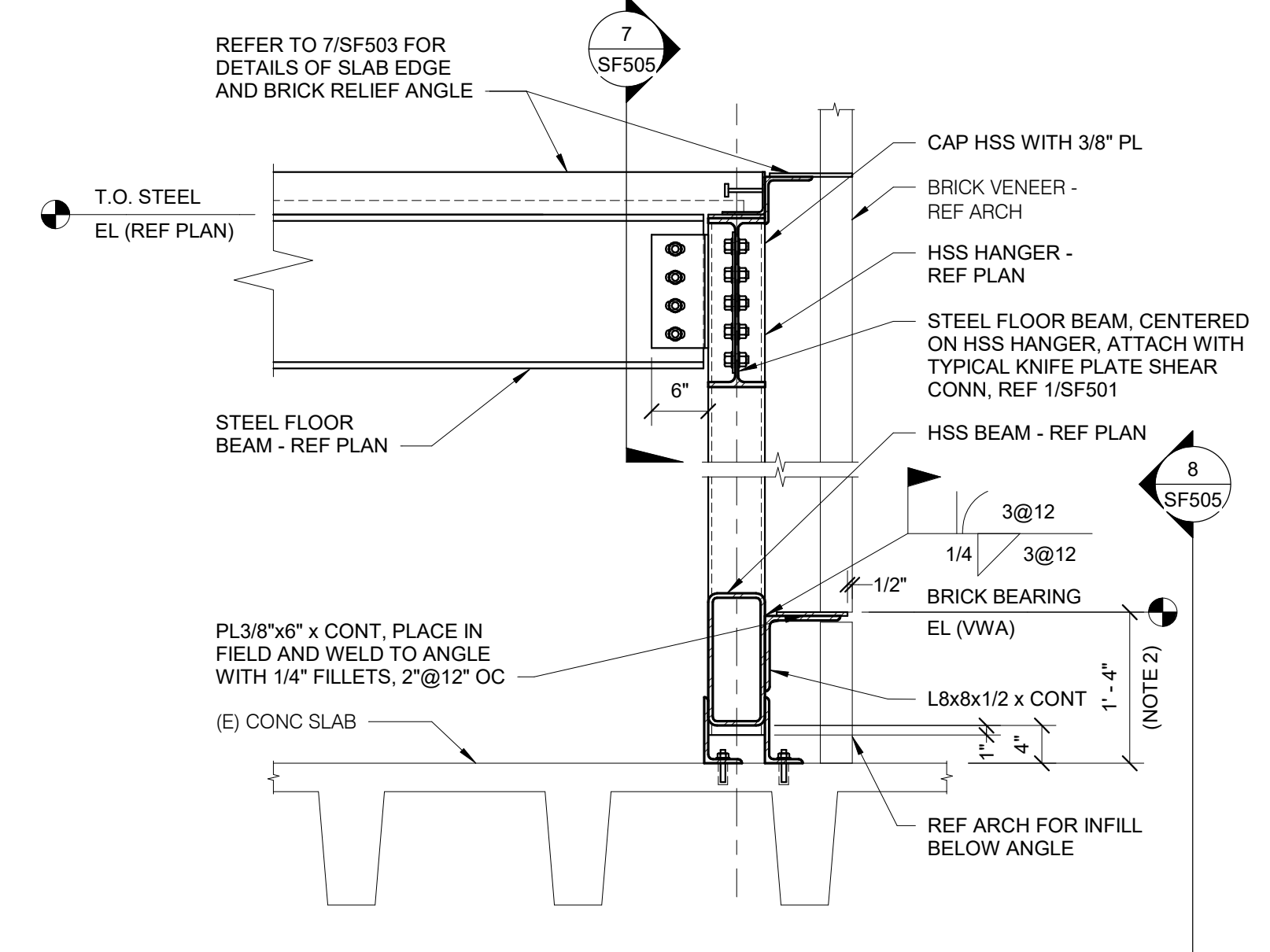
**3 CORNER BRICK SUPPORT DETAIL**  
 1 1/2" = 1'-0"  
 NOTES:  
 1. REFER TO 1/SF505 FOR ADDITIONAL INFORMATION.



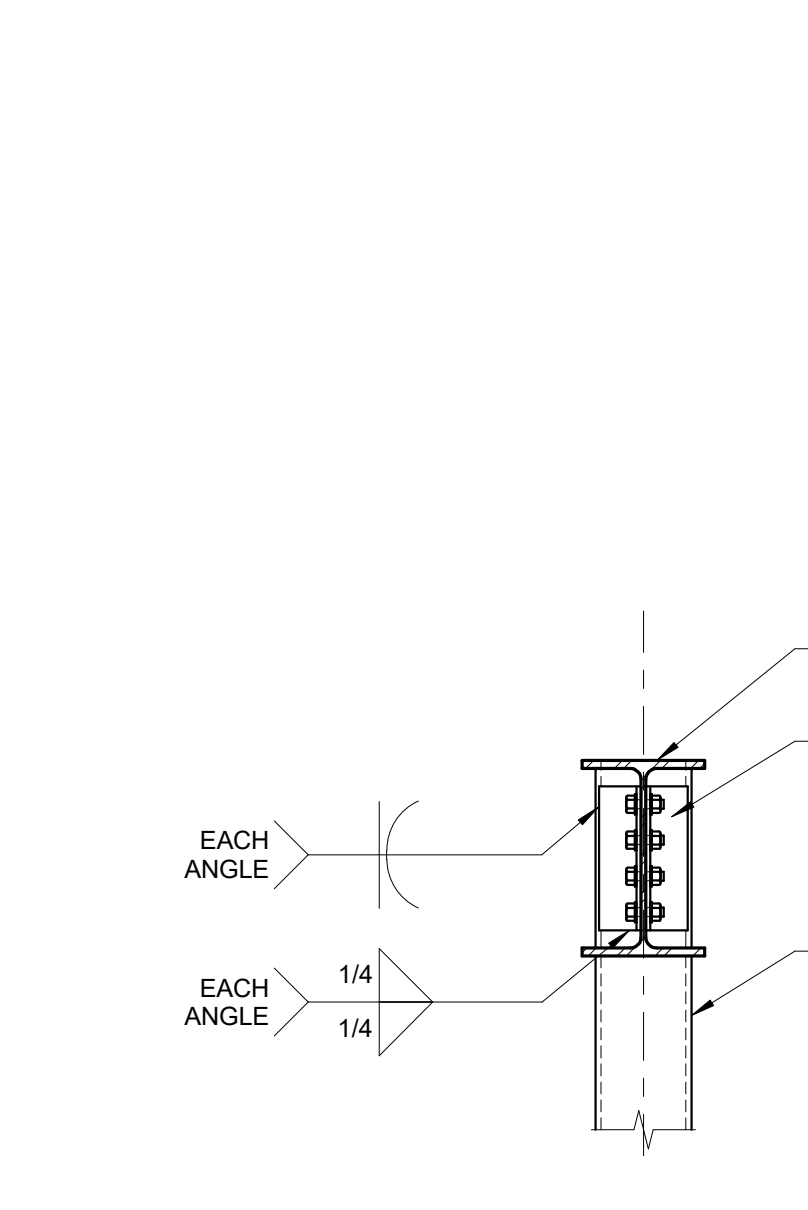
**4 CORNER BRICK SUPPORT DETAIL**  
 1 1/2" = 1'-0"  
 NOTES:  
 1. REFER TO 1/SF505 FOR ADDITIONAL INFORMATION.



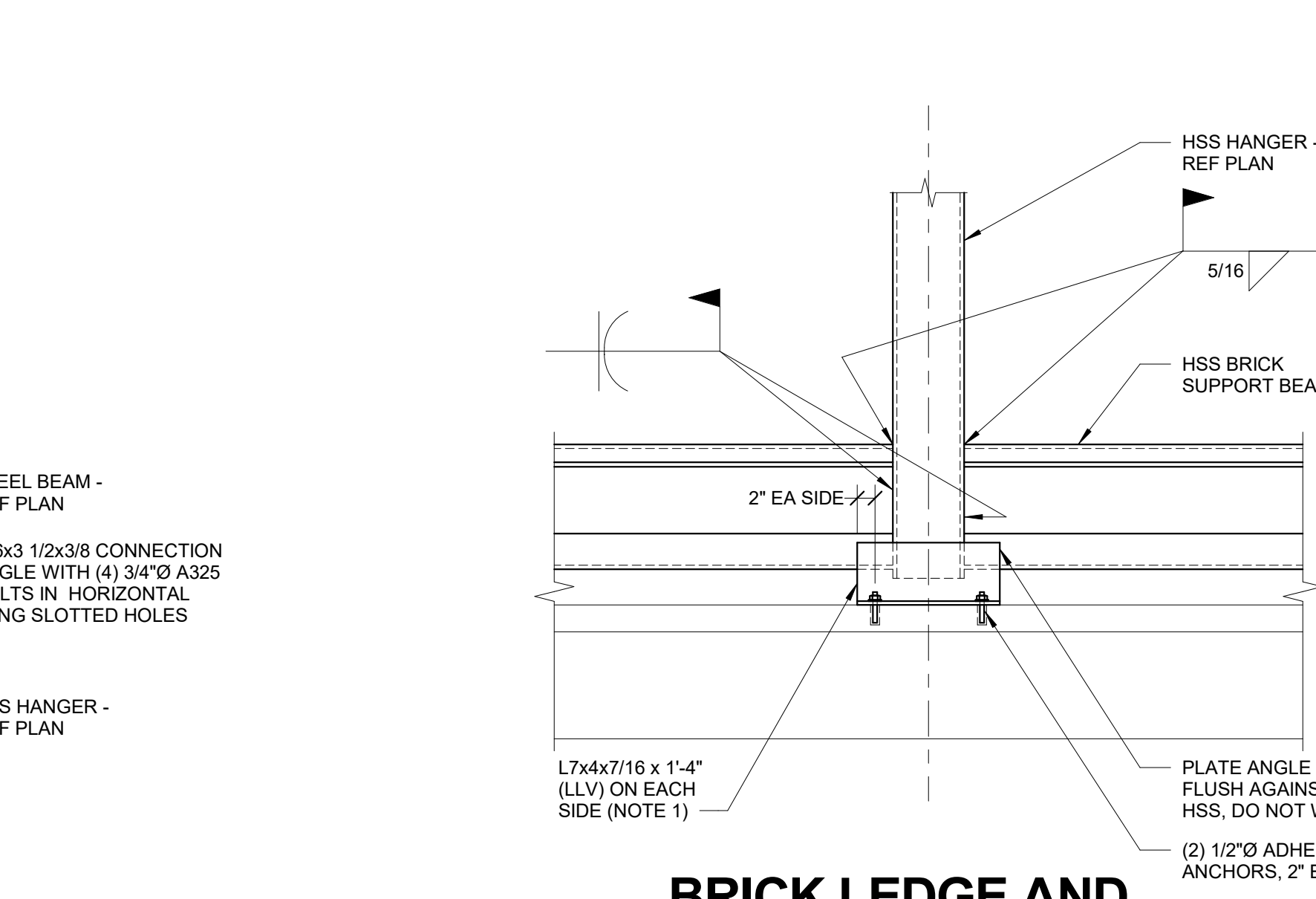
**5 FRAMING SECTION**  
 3/4" = 1'-0"  
 NOTES:  
 1. AT SIM, COLUMN IS NEW CONSTRUCTION.



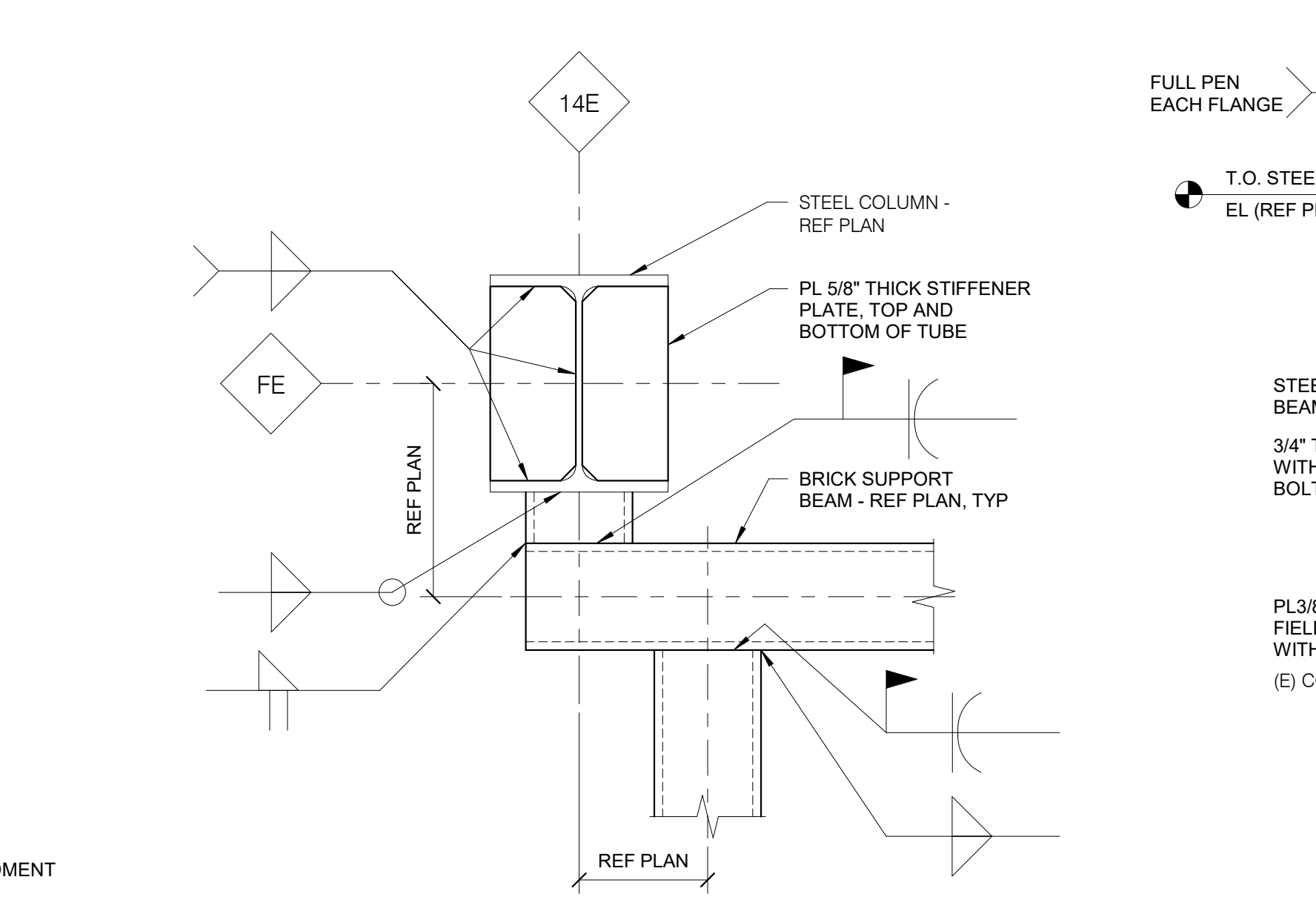
**6 BRICK HANGER SECTION**  
 3/4" = 1'-0"  
 NOTES:  
 1. FIELD VERIFY TOP OF EXISTING ROOF SLAB ELEVATION AND SET DIMENSION TO BOTTOM OF STEEL ANGLE SO THAT BRICK ANGLE COURSING MATCHES ARCHITECTURAL ELEVATIONS.  
 2. REFER TO 2/SF505 FOR HSS SPLICE DETAIL.



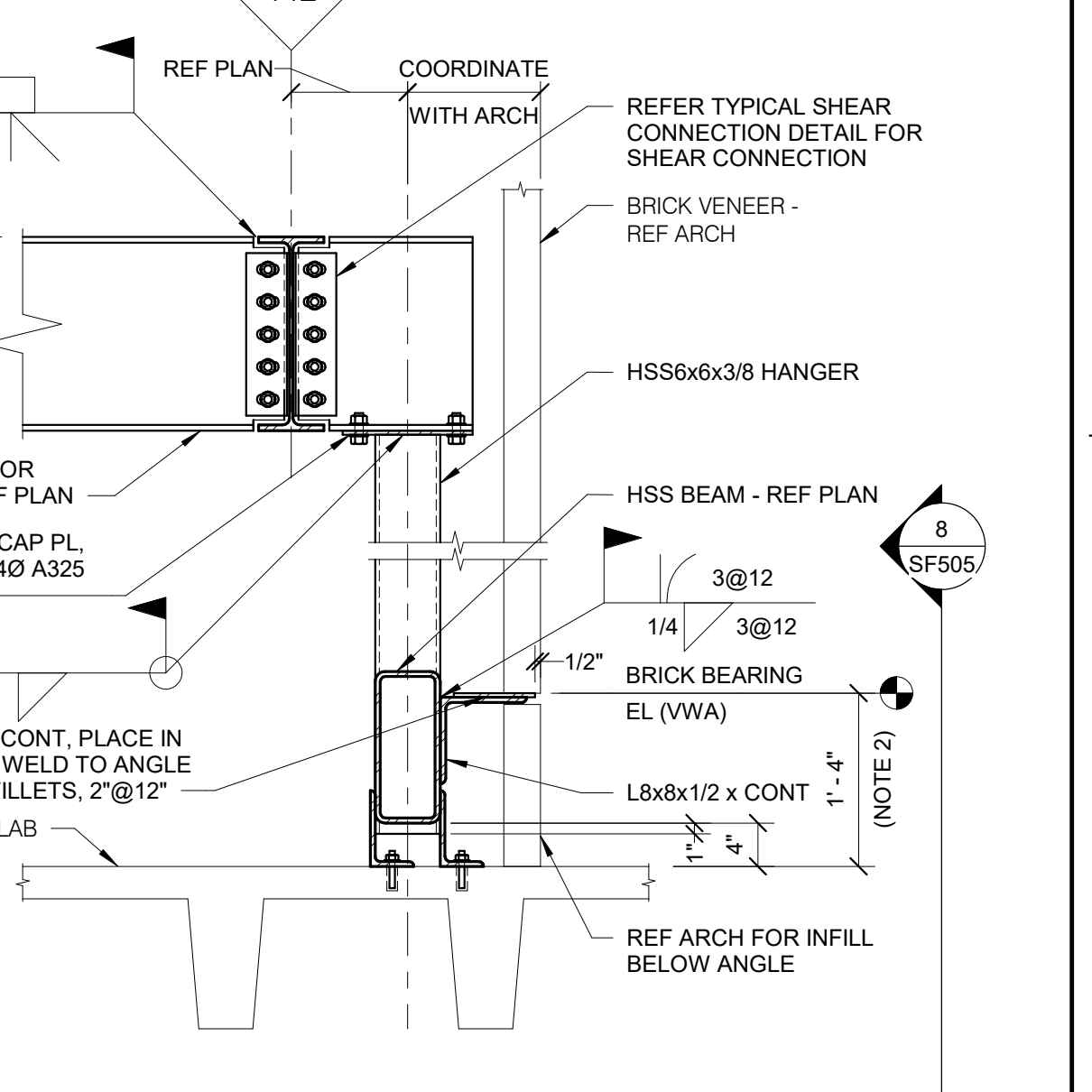
**7 HANGER CONNECTION DETAIL**  
 3/4" = 1'-0"



**8 BRICK LEDGE AND HANGER BRACE DETAIL**  
 3/4" = 1'-0"  
 NOTES:  
 1. LOCATE ANGLE BRACES AT THE BOTTOM OF THE HSS HANGERS, AND AT THE MID POINTS OF THE BRICK SUPPORT BEAM SPANS.



**9 BRICK SUPPORT DETAIL**  
 1 1/2" = 1'-0"



**10 BRICK HANGER SECTION**  
 3/4" = 1'-0"  
 NOTES:  
 1. ROOF DECK AND FLOOR SLAB NOT SHOWN FOR CLARITY.  
 2. FIELD VERIFY TOP OF EXISTING ROOF SLAB ELEVATION AND SET DIMENSION TO BOTTOM OF STEEL ANGLE SO THAT BRICK ANGLE COURSING MATCHES ARCHITECTURAL ELEVATIONS.  
 3. REFER TO 2/SF505 FOR HSS SPLICE DETAIL.

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Revisions:	Date:

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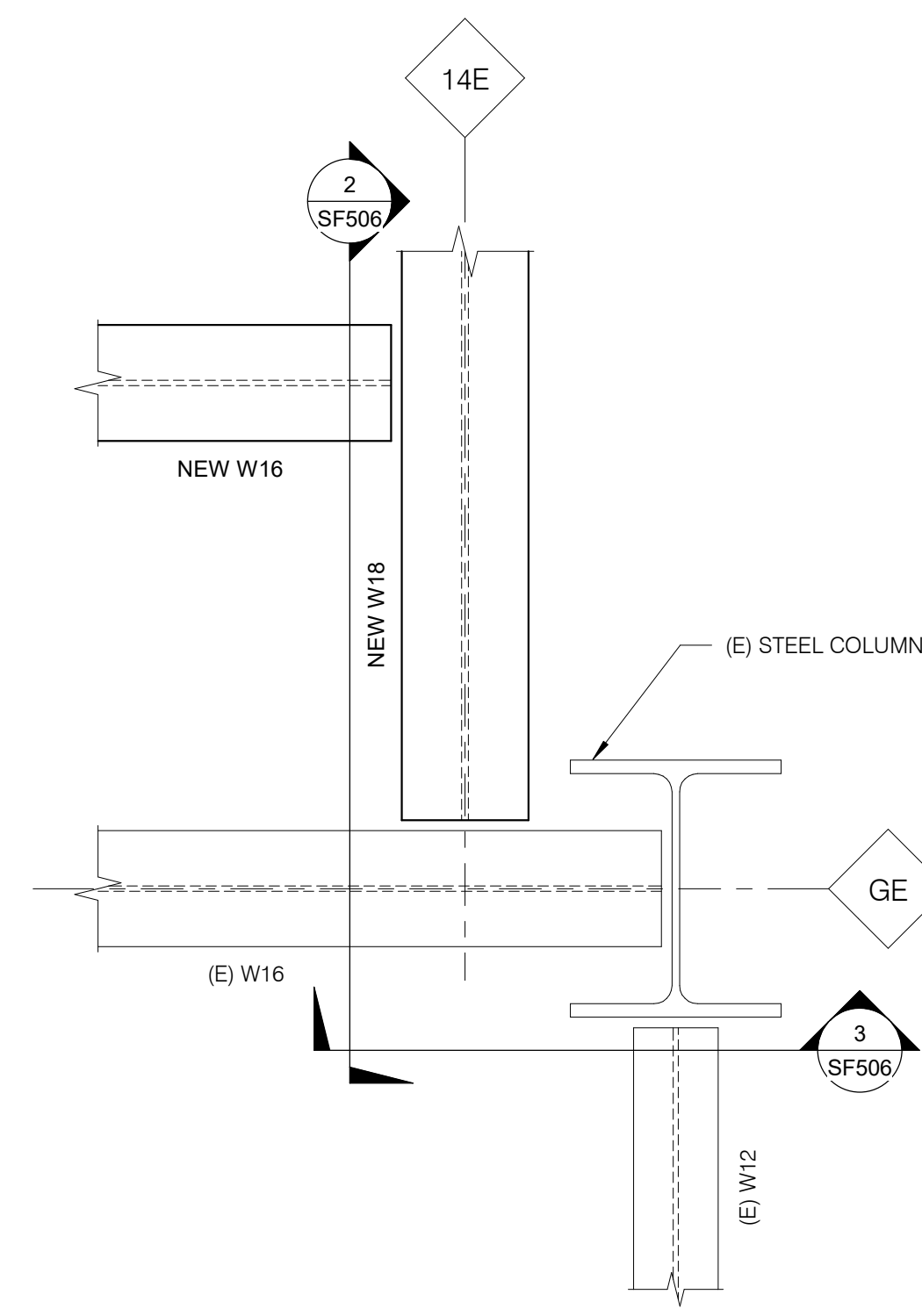
VA U.S. Department  
 of Veterans  
 Affairs

Drawing Title <b>FRAMING DETAILS</b>
Approved:

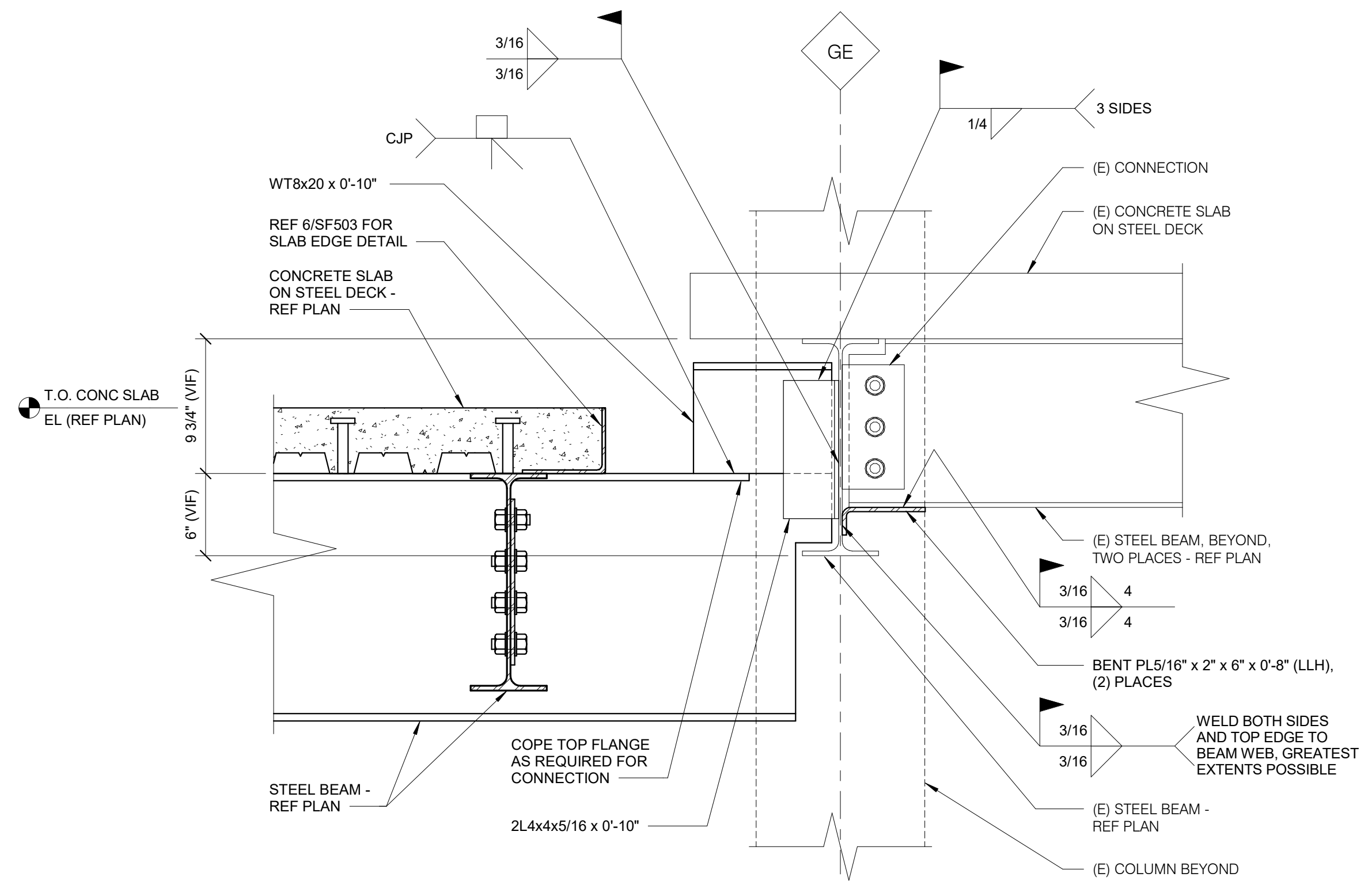
Phase <b>CONSTRUCTION DOCUMENTS</b>
<b>FULLY SPRINKLERED</b>

Project Title <b>CONSTRUCT LABORATORY ADDITION</b>
Location <b>SIOUX FALLS, SOUTH DAKOTA</b>
Issue Date 01/11/2019
Checked MICALB
Drawn SUJPAD

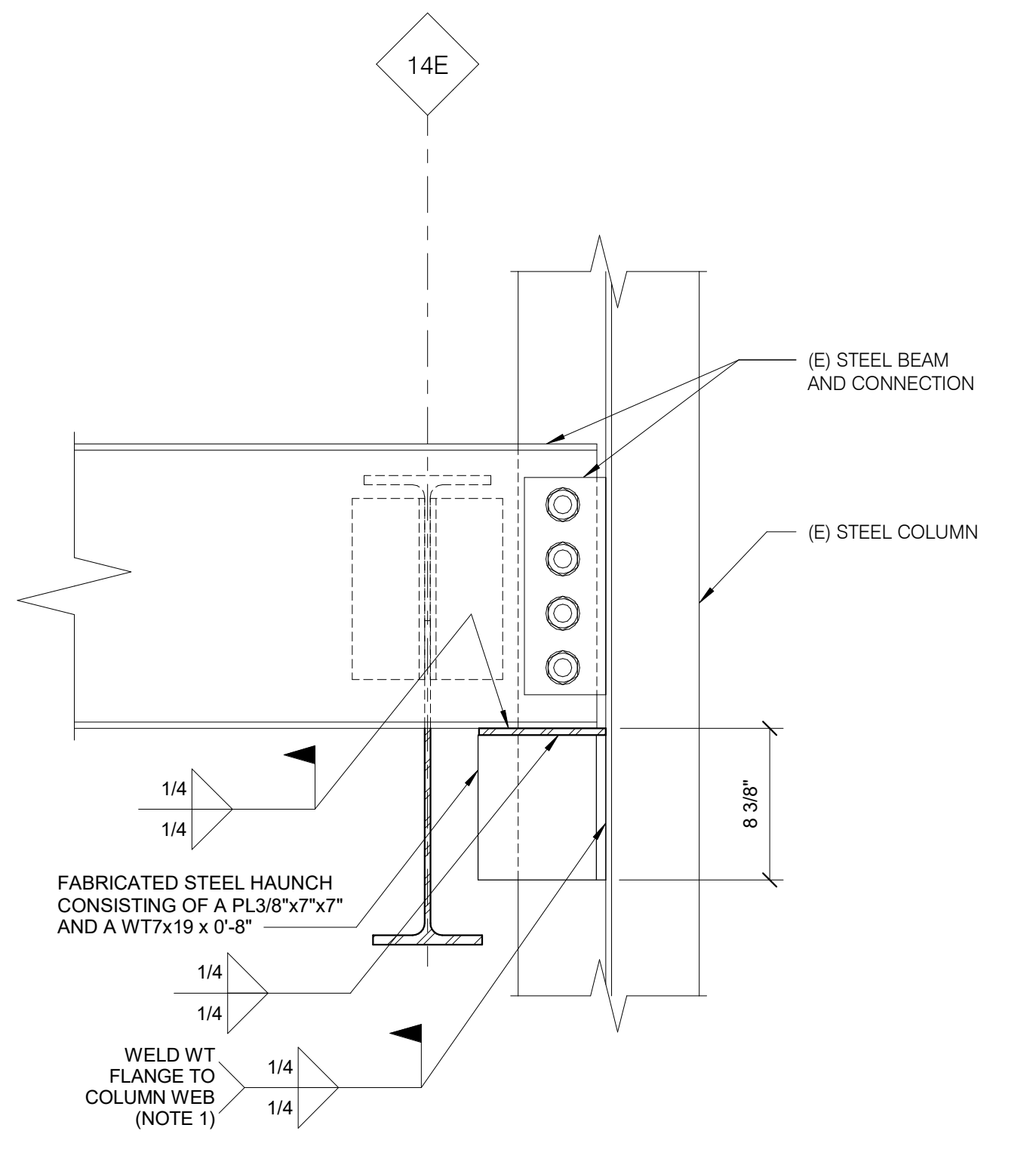
Project Number <b>438-440</b>
Building Number <b>5</b>
Drawing Number <b>SF505</b>



**1 CONNECTION DETAIL AT SECOND FLOOR**  
1 1/2" = 1'-0"

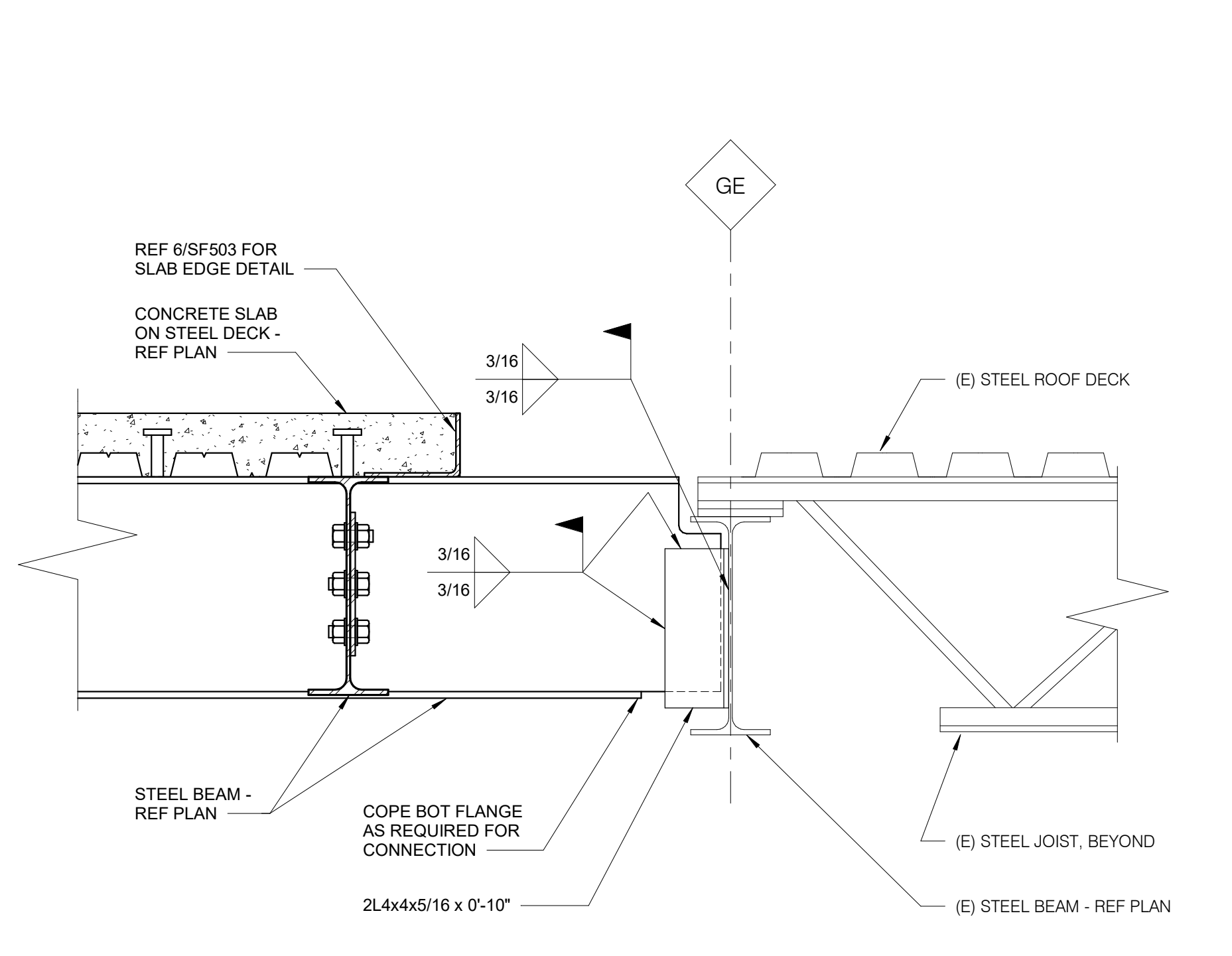


**2 CONNECTION DETAIL**  
1 1/2" = 1'-0"

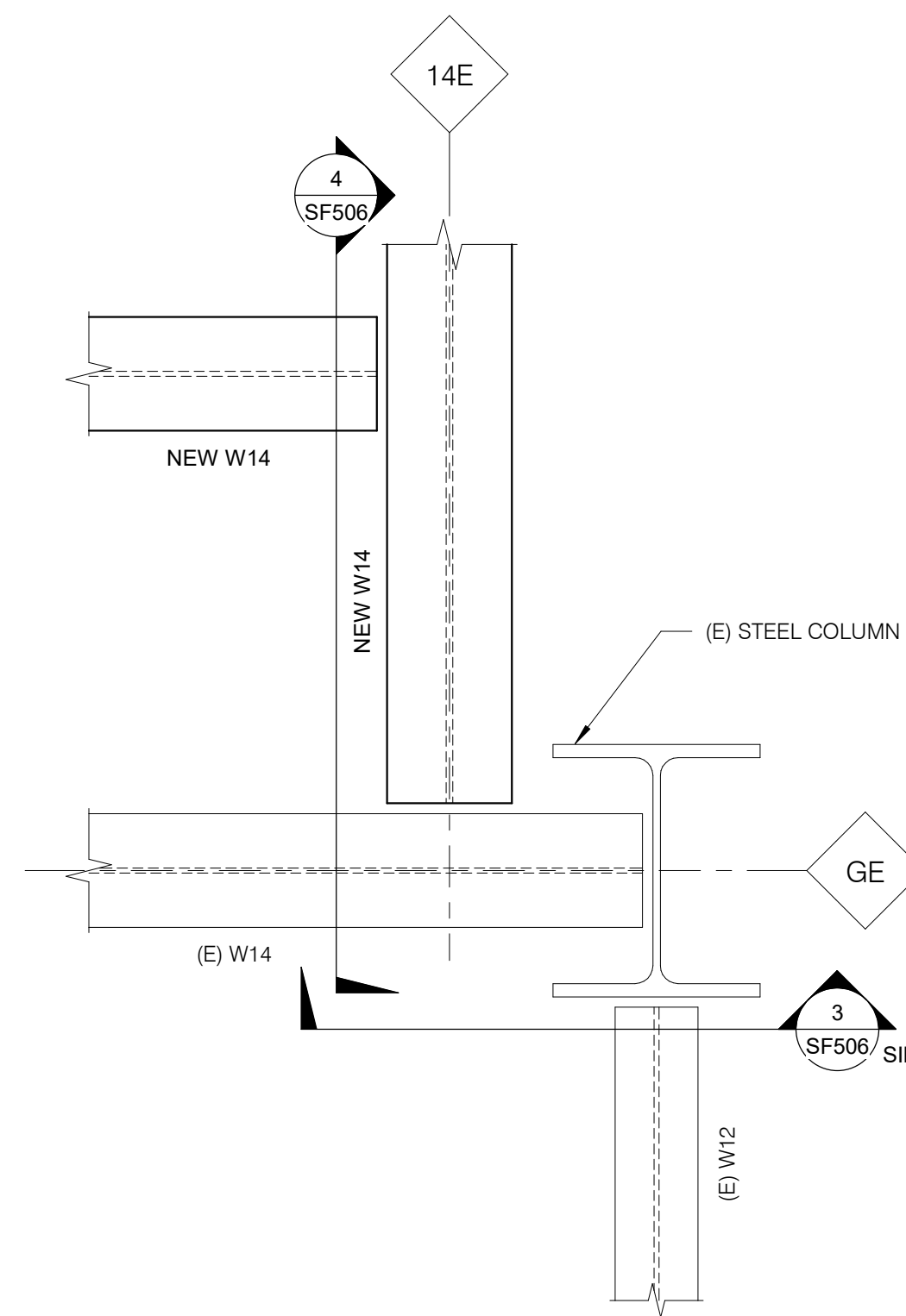


**3 CONNECTION DETAIL**  
1 1/2" = 1'-0"

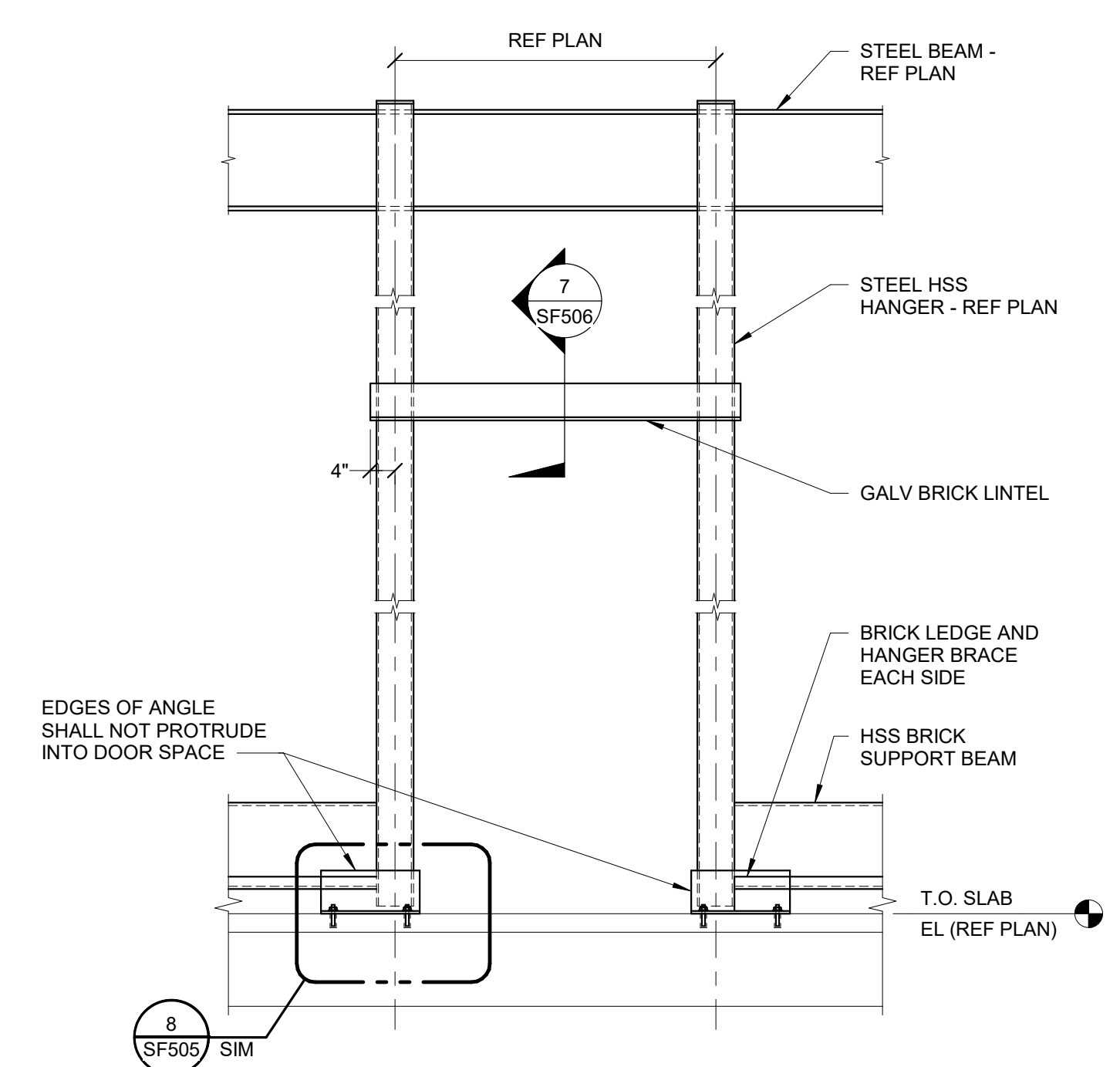
**NOTES:**  
1. AT SIM (ROOF LEVEL), USE STEEL HAUNCH ASSEMBLY AS SHOWN, BUT REDUCE FILLET WELD SIZES TO 3/16.



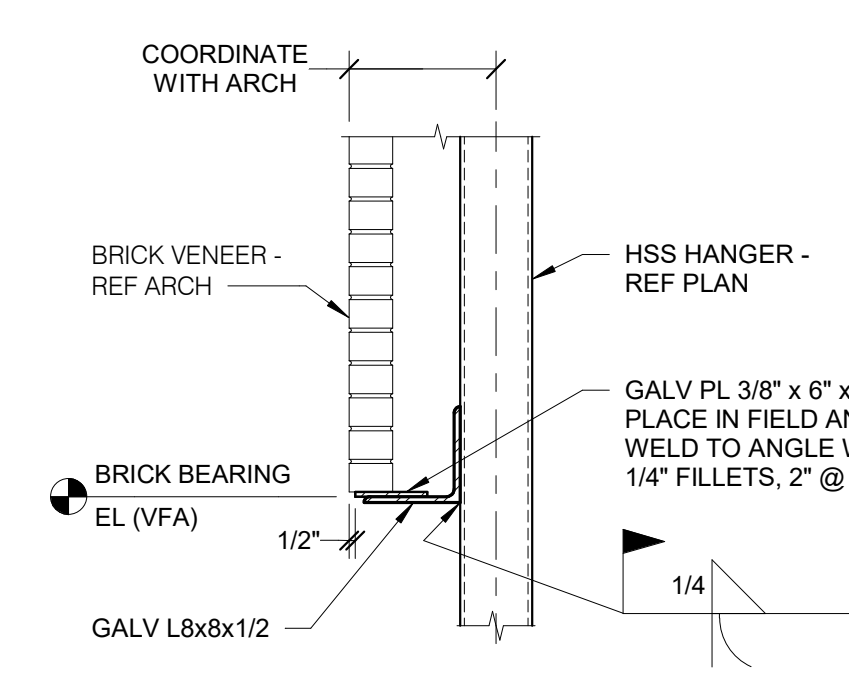
**4 CONNECTION DETAIL**  
1 1/2" = 1'-0"



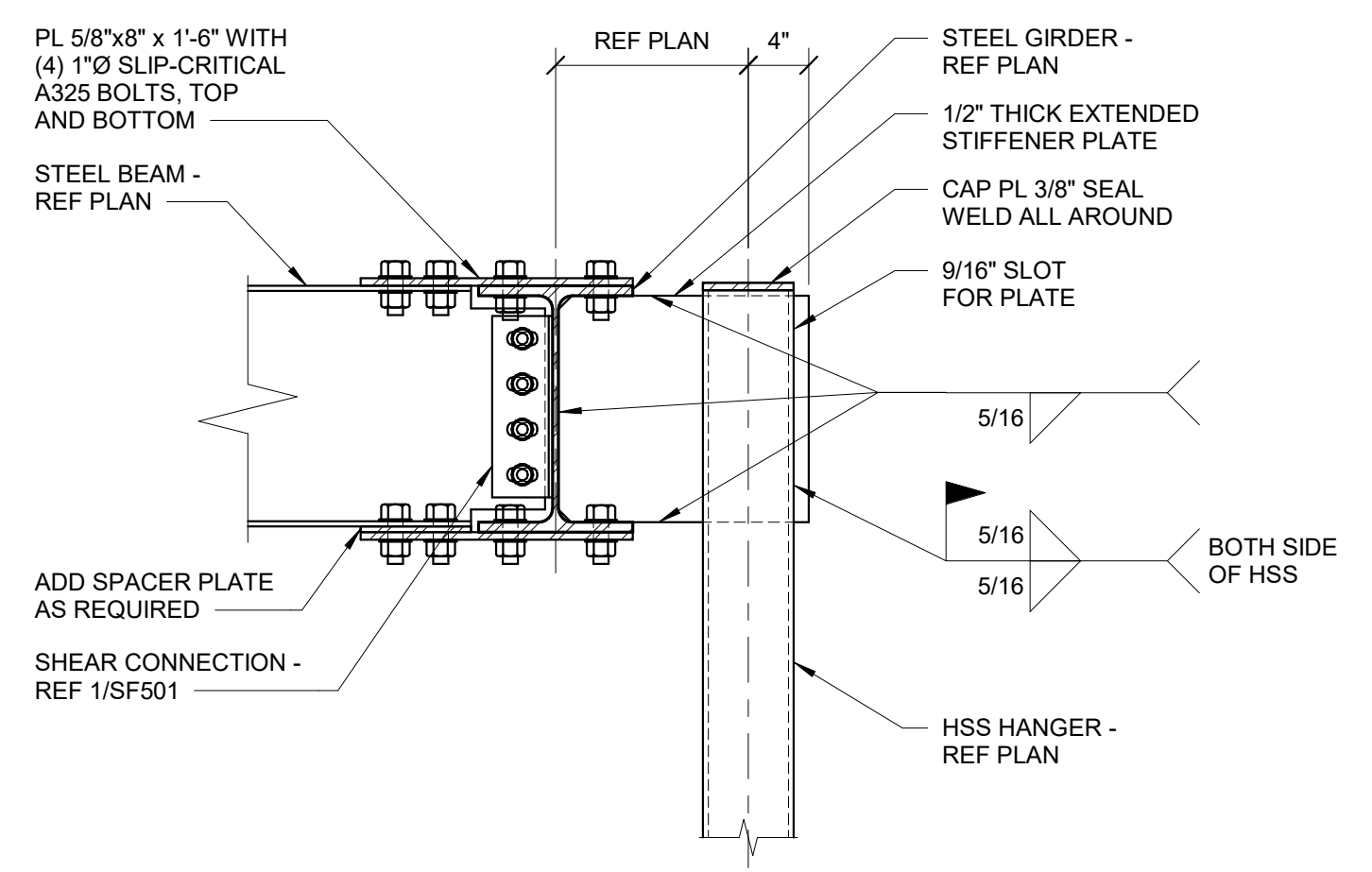
**5 CONNECTION DETAIL AT ROOF**  
1 1/2" = 1'-0"



**6 BRICK SUPPORT AT DOOR ELEVATION**  
1/2" = 1'-0"

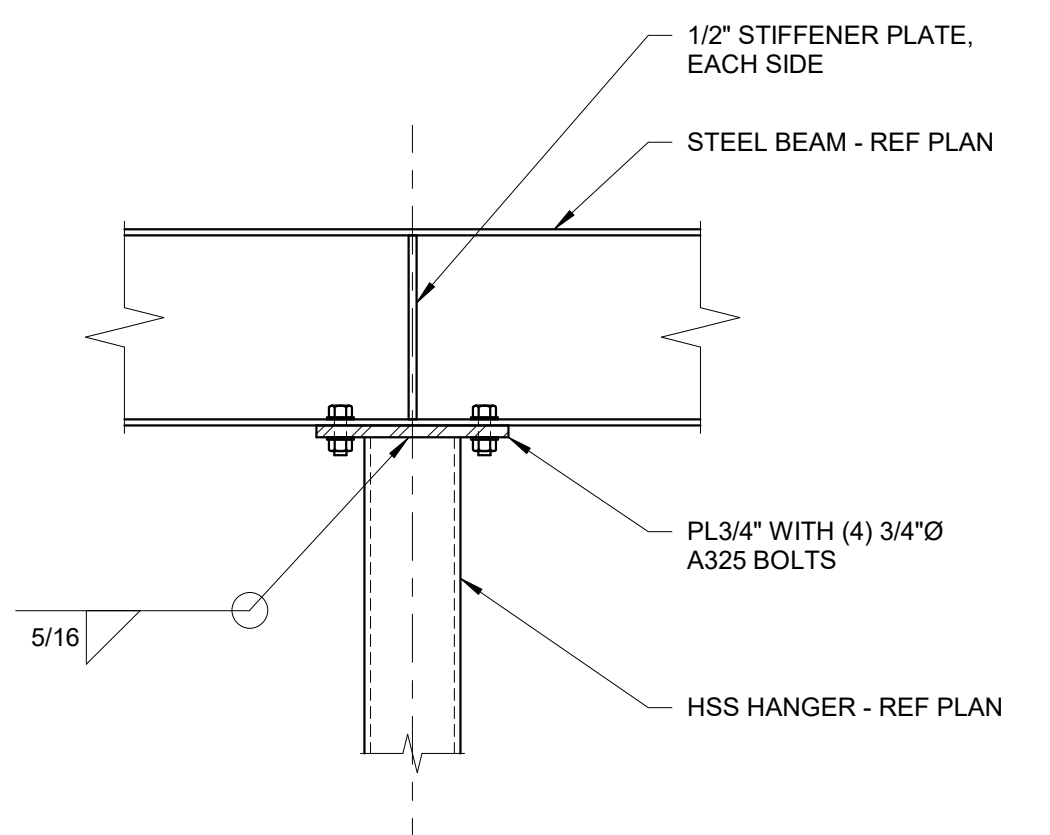


**7 BRICK LINTEL**  
3/4" = 1'-0"



**8 HANGER SECTION**  
1" = 1'-0"

**NOTES:**  
1. NO PAINT AT SLIP-CRITICAL CONNECTIONS.



**9 HSS HANGER DETAIL**  
1" = 1'-0"

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AE PROJECT NUMBER: 14564

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and Facilities  
Management

VA U.S. Department  
of Veterans  
Affairs

Drawing Title  
**FRAMING DETAILS**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

FULLY SPRINKLERED

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

Checked  
MICALB

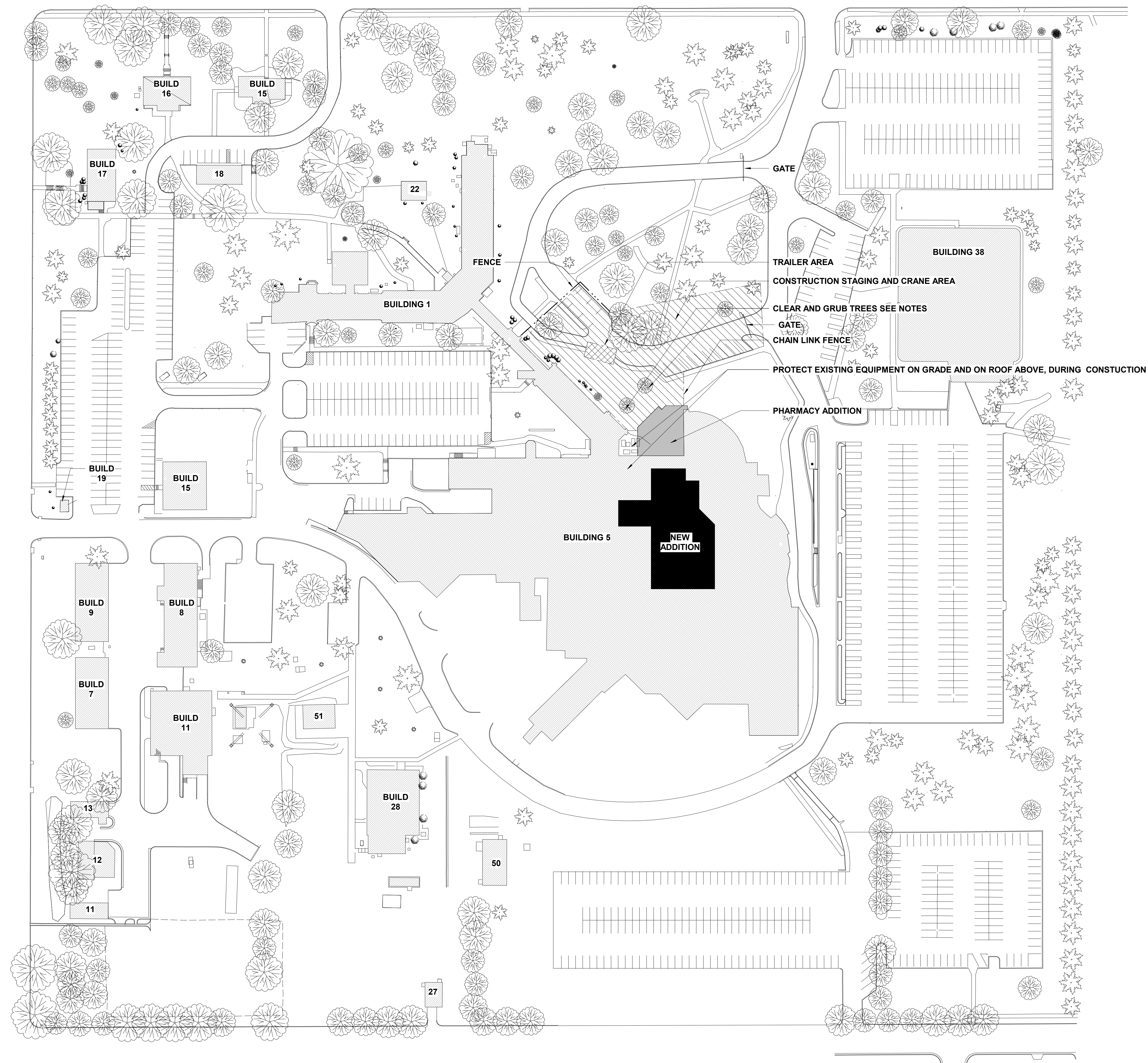
Drawn  
SUJPAD

Project Number  
438-440

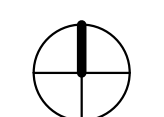
Building Number  
5

Drawing Number  
**SF506**

- SITE / STAGING PLAN GENERAL NOTES:**
- FENCE TO BE CHAIN LINK. GATES MUST BE LOCKED AT ALL TIMES OTHER THAN ENTRY/EXIT. REQUEST PADLOCKS FROM COR.
  - MAINTAIN 1' SEPARATION FROM FENCE TO SIDEWALKS.
  - PROVIDE SEDIMENT TRAPPING DRIVE-OFF AT ALL VEHICLE ACCESSES. ANY TRACKED SEDIMENT MUST BE SWEEPED UP WITHIN 24 HOURS.
  - PROVIDE INLET PROTECTION AT THE CATCH BASINS WITHIN THE STAGING AREA. MAINTAIN THROUGH THE LIFE OF THE PROJECT.
  - KEEP ANY STORM SEWER MANHOLE WITHIN THE STAGING AREA ACCESSIBLE.
  - STORAGE OF COMBUSTIBLE MATERIALS WITHIN 30 FEET OF ANY BUILDING IS NOT PERMITTED.
  - CLEAR AND GRUB TREE AS NOTED. REPLACE WITH 2" BALLED AND BURLAPPED AMERICAN LINDEN. WARRANTY NEW TREE FOR 1 YEAR.
  - ALL DISTURBED AREAS SHALL BE RESTORED WITH 6" MINIMUM SCREENED TOPSOIL AND STABILIZED WITH SALT RESISTANT SOO. WATER AND MAINTAIN SOO UNTIL IT IS ESTABLISHED FULLY ROOTED. PROVIDE A MINIMUM OF 3 MOWINGS.
  - CONTRACTOR MAY PARK SEMI TRAILER IN (AREA MARKED ON SITE PLAN), AND APPROVED BY THE COR. FOR STORAGE OF EQUIPMENT AND MATERIALS. THE CONTRACTOR MAY PARK UP TO 4 (FOUR) WORKER VEHICLES IN THE LOT NEAR THE WIND TURBINE. ALL OTHER STORAGE AND PARKING MUST BE WITHIN FENCED AREA SHOWN FOR CURRENT AREAS OF CONSTRUCTION. RELOCATION OF THE SEMI TRAILER WITH THIS PARKING AREA MAY BE REQUIRED DURING CONSTRUCTION.



1 SITE PLAN  
1" = 60'-0"



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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of Minnesota.

Signature: *Tom Olesak*

Name: Tom Olesak  
Date: 01/10/2019  
License Number: 18157

Office of Construction and Facilities Management

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**ARCHITECTURAL SITE & STAGING PLAN**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

Checked  
\_\_\_\_\_

Drawn  
GJB/JMT

Project Number  
**438-440**

Building Number  
**5**

Drawing Number  
**AS100**

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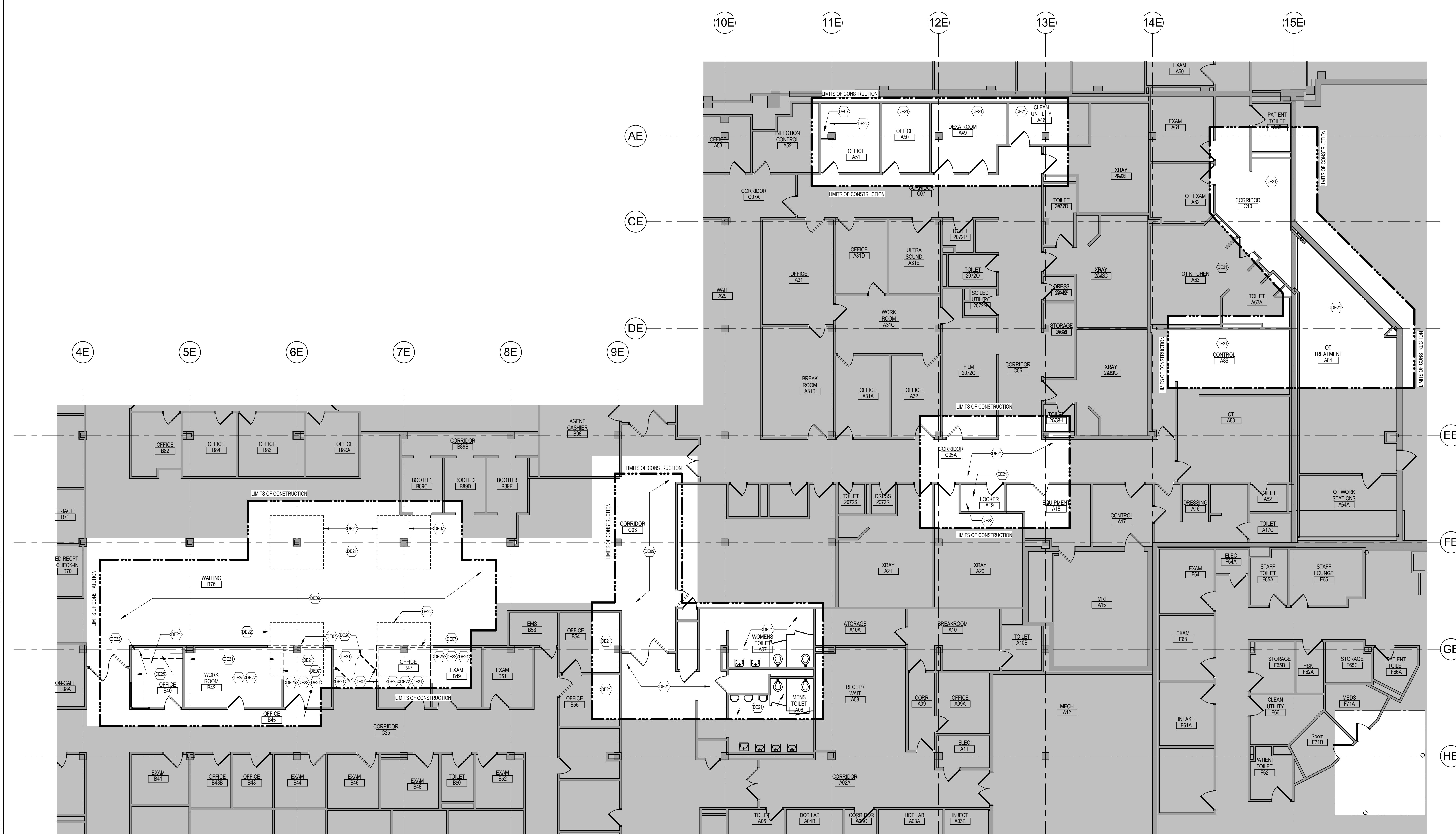


DEMOLITION PLAN SYMBOLS			
	EXISTING WALL TO REMAIN		EXISTING DOOR AND FRAME TO REMAIN
	WALL OR PARTITION TO BE REMOVED		EXISTING DOOR AND FRAME TO BE DEMOLISHED
	DASHED LINE INDICATES ITEM TO BE REMOVED (UNO)		KEY NOTE
	GRIDLINE		

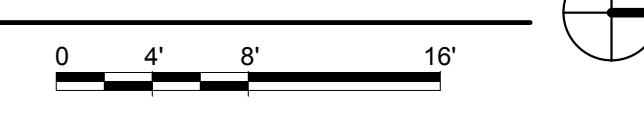
NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

DEMOLITION PLAN KEYED NOTES	
(DE01)	REMOVE CEILING IN ITS ENTIRETY, INCLUDING ALL MECHANICAL AND ELECTRICAL ITEMS - SEE MECHANICAL / ELECTRICAL
(DE02)	REMOVE BASE CABINETS, COUNTERTOP, UPPER CABINETS, TALL CABINETS AND / OR SHELVING.
(DE03)	REMOVE PLUMBING FIXTURES AND ACCESSORIES. SALVAGE FOR REINSTALLATION. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION. - SEE MECHANICAL
(DE04)	REMOVE SYSTEMS FURNITURE IN ITS ENTIRETY. SALVAGE AND RETURN TO OWNER. - SEE MECHANICAL FOR ADDITIONAL INFORMATION.
(DE05)	REMOVE WINDOW TREATMENT.
(DE06)	REMOVE DOOR, FRAME AND HARDWARE. SALVAGE FOR REINSTALLATION. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
(DE07)	REMOVE PORTION OF PARTITION AS REQUIRED. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
(DE08)	REMOVE GPBD ON ONE SIDE OF PARTITION AS REQUIRED FOR MECHANICAL WORK. - SEE MECHANICAL
(DE09)	REMOVE SKYLIGHT SYSTEM IN ITS ENTIRETY.
(DE10)	SAW CUT AND REMOVE EXTERIOR CONCRETE WALL. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION. - SEE STRUCTURAL
(DE11)	REMOVE WALL MOUNTED EXTERIOR LADDER AND CAGE. SALVAGE FOR REINSTALLATION. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
(DE12)	SAW CUT BRICK AND CONCRETE BLOCK WALL. REMOVE PORTION OF EXTERIOR WALL. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
(DE13)	REMOVE EXTERIOR WINDOW SYSTEM IN ITS ENTIRETY
(DE14)	CUT OPENING INTO EXTERIOR WALL. - SEE PLAN FOR ADDITIONAL INFORMATION
(DE15)	REMOVE EXTERIOR METAL SHINGLE SIDING. SEE PLAN FOR ADDITIONAL INFORMATION
(DE16)	REMOVE MECHANICAL LOUVERS. SALVAGE FOR REINSTALLATION. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION. - SEE MECHANICAL
(DE17)	REMOVE PORTION OF MEMBRANE ROOFING SYSTEM. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
(DE18)	REMOVE PORTION OF METAL CAP FLASHING. SEE ROOF PLAN FOR ADDITIONAL INFORMATION.
(DE19)	REMOVE CARD READER AND/OR ELECTRONIC DOOR OPERATOR. SALVAGE FOR REINSTALLATION. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
(DE20)	REMOVE INTERIOR SIGNAGE. SALVAGE FOR REINSTALLATION
(DE21)	REMOVE PORTION OF CEILING. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION
(DE22)	SAW CUT FLOOR AS REQUIRED FOR CONSTRUCTION - SEE FLOOR PLANS, STRUCTURAL AND / OR MECHANICAL FOR ADDITIONAL INFORMATION.
(DE23)	CUT HOLE IN WALL AS REQUIRED FOR PIPE PENETRATION. - SEE MEP DRAWINGS
(DE24)	REMOVE DOOR, FRAME AND HARDWARE AND WALL BELOW DOOR DOWN TO EXISTING FLOOR
(DE25)	REMOVE UPPER CABINET AND COUNTERTOP. SALVAGE FOR REINSTALLATION
(DE26)	REMOVE DOOR, FRAME AND HARDWARE. SALVAGE FOR REINSTALLATION
(DE27)	REMOVE DISPLAY CASE/DIRECTORY. SALVAGE FOR REINSTALLATION

NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN



**1** GROUND FLOOR - DEMOLITION PLAN  
1/8" = 1'-0"



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AE PROJECT NUMBER: 14567

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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of Minnesota.

Signature: *[Signature]*

Name: Tom Olesak  
Date: 01/10/2019  
License Number: 18157

Office of Construction and Facilities Management

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**GROUND FLOOR DEMOLITION PLAN**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
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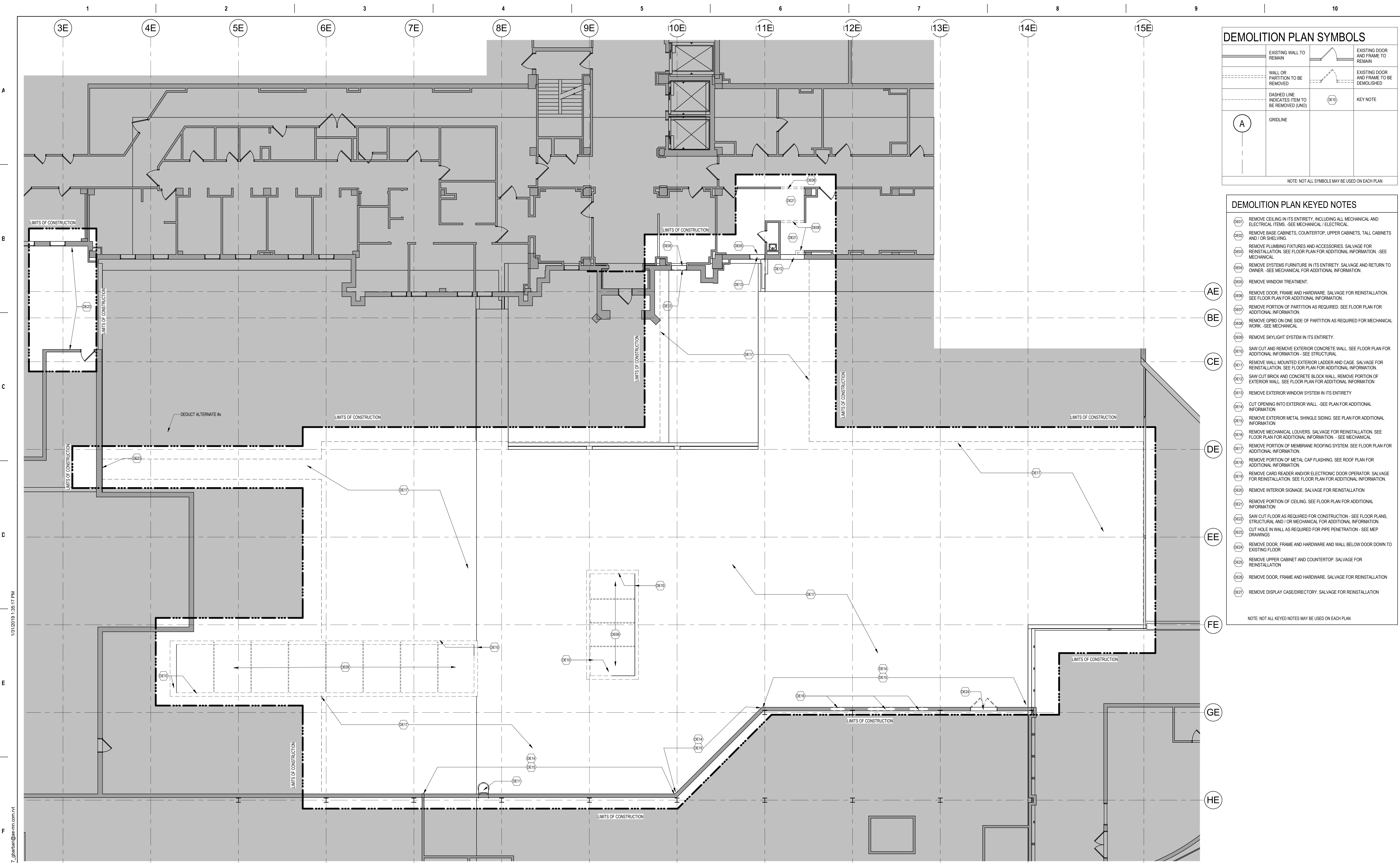
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Drawn  
GJB/JMT

Project Number  
**438-440**

Building Number  
**5**

Drawing Number  
**AD101**



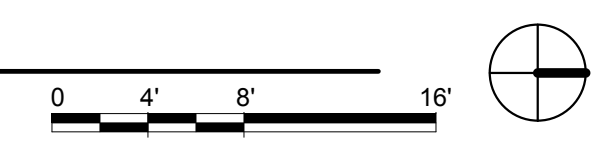
	EXISTING WALL TO REMAIN		EXISTING DOOR AND FRAME TO REMAIN
	WALL OR PARTITION TO BE REMOVED		EXISTING DOOR AND FRAME TO BE DEMOLISHED
	DASHED LINE INDICATES ITEM TO BE REMOVED (LINO)		KEY NOTE
	GRIDLINE		

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

DE1	REMOVE CEILING IN ITS ENTIRETY, INCLUDING ALL MECHANICAL AND ELECTRICAL ITEMS. SEE MECHANICAL / ELECTRICAL
DE2	REMOVE BASE CABINETS, COUNTERTOP, UPPER CABINETS, TALL CABINETS AND / OR SHELVING.
DE3	REMOVE PLUMBING FIXTURES AND ACCESSORIES. SALVAGE FOR REINSTALLATION. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION. - SEE MECHANICAL
DE4	REMOVE SYSTEMS FURNITURE IN ITS ENTIRETY. SALVAGE AND RETURN TO OWNER. - SEE MECHANICAL FOR ADDITIONAL INFORMATION.
DE5	REMOVE WINDOW TREATMENT.
DE6	REMOVE DOOR, FRAME AND HARDWARE. SALVAGE FOR REINSTALLATION. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
DE7	REMOVE PORTION OF PARTITION AS REQUIRED. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
DE8	REMOVE GRID ON ONE SIDE OF PARTITION AS REQUIRED FOR MECHANICAL WORK. - SEE MECHANICAL
DE9	REMOVE SKYLIGHT SYSTEM IN ITS ENTIRETY.
DE10	SAW CUT AND REMOVE EXTERIOR CONCRETE WALL. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION. - SEE STRUCTURAL
DE11	REMOVE WALL MOUNTED EXTERIOR LADDER AND CAGE. SALVAGE FOR REINSTALLATION. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
DE12	SAW CUT BRICK AND CONCRETE BLOCK WALL. REMOVE PORTION OF EXTERIOR WALL. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
DE13	REMOVE EXTERIOR WINDOW SYSTEM IN ITS ENTIRETY
DE14	CUT OPENING INTO EXTERIOR WALL. - SEE PLAN FOR ADDITIONAL INFORMATION.
DE15	REMOVE EXTERIOR METAL SHINGLE SIDING. SEE PLAN FOR ADDITIONAL INFORMATION.
DE16	REMOVE MECHANICAL LOUVERS. SALVAGE FOR REINSTALLATION. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION. - SEE MECHANICAL
DE17	REMOVE PORTION OF MEMBRANE ROOFING SYSTEM. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
DE18	REMOVE PORTION OF METAL CAP FLASHING. SEE ROOF PLAN FOR ADDITIONAL INFORMATION.
DE19	REMOVE CARD READER AND/OR ELECTRONIC DOOR OPERATOR. SALVAGE FOR REINSTALLATION. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
DE20	REMOVE INTERIOR SIGNAGE. SALVAGE FOR REINSTALLATION
DE21	REMOVE PORTION OF CEILING. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
DE22	SAW CUT FLOOR AS REQUIRED FOR CONSTRUCTION - SEE FLOOR PLANS, STRUCTURAL AND / OR MECHANICAL FOR ADDITIONAL INFORMATION.
DE23	CUT HOLE IN WALL AS REQUIRED FOR PIPE PENETRATION - SEE MEP DRAWINGS
DE24	REMOVE DOOR, FRAME AND HARDWARE AND WALL BELOW DOOR DOWN TO EXISTING FLOOR
DE25	REMOVE UPPER CABINET AND COUNTERTOP. SALVAGE FOR REINSTALLATION
DE26	REMOVE DOOR, FRAME AND HARDWARE. SALVAGE FOR REINSTALLATION
DE27	REMOVE DISPLAY CASE/DIRECTORY. SALVAGE FOR REINSTALLATION

NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

**1** FIRST FLOOR - DEMOLITION PLAN  
1/8" = 1'-0"



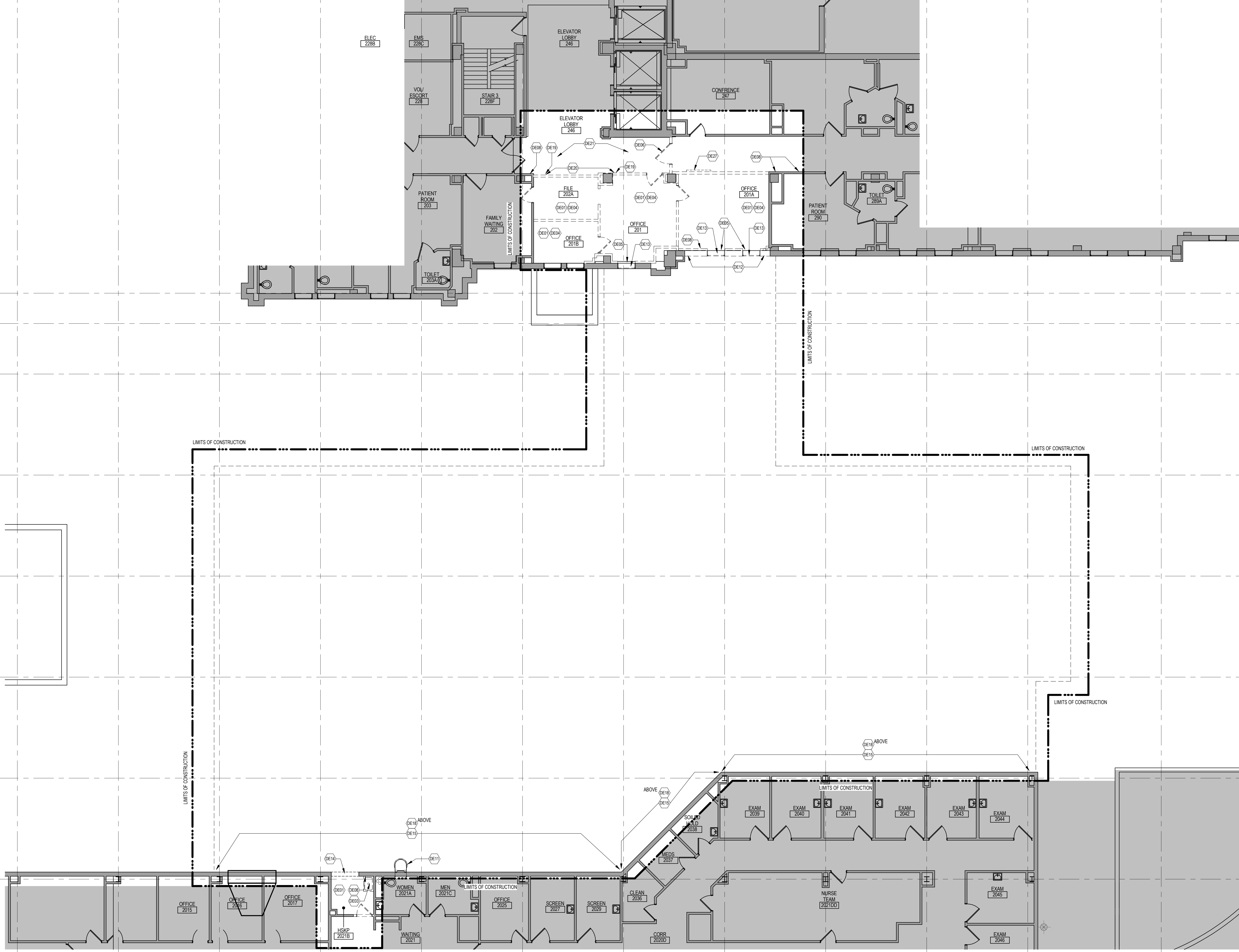
35% SD REVIEW Revisions:	03/14/2018 Date:	<b>CONSULTANT</b>  15 SUNNEN DR SUITE 104 SAINT LOUIS, MO 63143 PH: 314.645.1132 FAX: 314.645.1173 www.imegcorp.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Anderson Engineering of Minnesota, LLC 13605 1st Avenue North Suite 100 Plymouth, MN 55441 763-412-4000 (o) 763-412-4090 (f) www.ae-mn.com	<b>STAMP</b> I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of Minnesota. Signature: <i>[Signature]</i> Name: Tom Olesak Date: 01/10/2019 License Number: 18157	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>FIRST FLOOR DEMOLITION PLAN</b> Approved:	Phase <b>CONSTRUCTION DOCUMENTS</b> <b>FULLY SPRINKLERED</b>	Project Title <b>CONSTRUCT LABORATORY ADDITION</b> Location <b>SIOUX FALLS, SOUTH DAKOTA</b> Issue Date 01/11/2019	Project Number <b>438-440</b> Building Number <b>5</b> Drawing Number <b>AD111</b>
	VA FORM 08 - 6231		<b>AE PROJECT NUMBER: 14567</b>		U.S. Department of Veterans Affairs		<b>FULLY SPRINKLERED</b>		<b>AD111</b>

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 Revisions:

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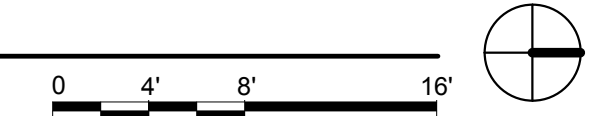
DEMOLITION PLAN SYMBOLS			
	EXISTING WALL TO REMAIN		EXISTING DOOR AND FRAME TO REMAIN
	WALL OR PARTITION TO BE REMOVED		EXISTING DOOR AND FRAME TO BE DEMOLISHED
	DASHED LINE INDICATES ITEM TO BE REMOVED (UNO)		KEY NOTE
	GRIDLINE		

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

DEMOLITION PLAN KEYED NOTES	
	REMOVE CEILING IN ITS ENTIRETY, INCLUDING ALL MECHANICAL AND ELECTRICAL ITEMS. - SEE MECHANICAL, ELECTRICAL
	REMOVE BASE CABINETS, COUNTERTOP, UPPER CABINETS, TALL CABINETS AND / OR SHELVING.
	REMOVE PLUMBING FIXTURES AND ACCESSORIES. SALVAGE FOR REINSTALLATION. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION. - SEE MECHANICAL.
	REMOVE SYSTEMS FURNITURE IN ITS ENTIRETY. SALVAGE AND RETURN TO OWNER. - SEE MECHANICAL FOR ADDITIONAL INFORMATION.
	REMOVE WINDOW TREATMENT.
	REMOVE DOOR, FRAME AND HARDWARE. SALVAGE FOR REINSTALLATION. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
	REMOVE PORTION OF PARTITION AS REQUIRED. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
	REMOVE GPBD ON ONE SIDE OF PARTITION AS REQUIRED FOR MECHANICAL WORK. - SEE MECHANICAL.
	REMOVE SKYLIGHT SYSTEM IN ITS ENTIRETY.
	SAW CUT AND REMOVE EXTERIOR CONCRETE WALL. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION. - SEE STRUCTURAL.
	REMOVE WALL MOUNTED EXTERIOR LADDER AND CAGE. SALVAGE FOR REINSTALLATION. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
	SAW CUT BRICK AND CONCRETE BLOCK WALL. REMOVE PORTION OF EXTERIOR WALL. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
	REMOVE EXTERIOR WINDOW SYSTEM IN ITS ENTIRETY.
	CUT OPENING INTO EXTERIOR WALL. - SEE PLAN FOR ADDITIONAL INFORMATION.
	REMOVE EXTERIOR METAL SHINGLE SIDING. SEE PLAN FOR ADDITIONAL INFORMATION.
	REMOVE MECHANICAL LOUVERS. SALVAGE FOR REINSTALLATION. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION. - SEE MECHANICAL.
	REMOVE PORTION OF MEMBRANE ROOFING SYSTEM. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
	REMOVE PORTION OF METAL CAP FLASHING. SEE ROOF PLAN FOR ADDITIONAL INFORMATION.
	REMOVE CARD READER AND/OR ELECTRONIC DOOR OPERATOR. SALVAGE FOR REINSTALLATION. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
	REMOVE INTERIOR SIGNAGE. SALVAGE FOR REINSTALLATION.
	REMOVE PORTION OF CEILING. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION.
	SAW CUT FLOOR AS REQUIRED FOR CONSTRUCTION. - SEE FLOOR PLANS, STRUCTURAL AND / OR MECHANICAL FOR ADDITIONAL INFORMATION.
	CUT HOLE IN WALL AS REQUIRED FOR PIPE PENETRATION. - SEE MEP DRAWINGS.
	REMOVE DOOR, FRAME AND HARDWARE AND WALL BELOW DOOR DOWN TO EXISTING FLOOR.
	REMOVE UPPER CABINET AND COUNTERTOP. SALVAGE FOR REINSTALLATION.
	REMOVE DOOR, FRAME AND HARDWARE. SALVAGE FOR REINSTALLATION.
	REMOVE DISPLAY CASE/DIRECTORY. SALVAGE FOR REINSTALLATION.

NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

1 SECOND FLOOR - DEMOLITION PLAN  
1/8" = 1'-0"



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VA FORM 08 - 6231

Revisions:	Date:
35% SD REVIEW	03/14/2018

**CONSULTANT**

**IMEG**

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SUITE 104  
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763-412-4000 (o) 763-412-4090 (f)  
www.ae-mn.com

AE PROJECT NUMBER: 14567

**STAMP**

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of Minnesota.

Signature: *Tom Olesak*

Name: Tom Olesak  
Date: 01/10/2019  
License Number: 18157

Office of  
Construction  
and Facilities  
Management

**VA** U.S. Department  
of Veterans  
Affairs

Drawing Title  
**SECOND FLOOR DEMOLITION PLAN**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

Checked

Drawn  
GJB/JMT

Project Number  
**438-440**

Building Number  
**5**

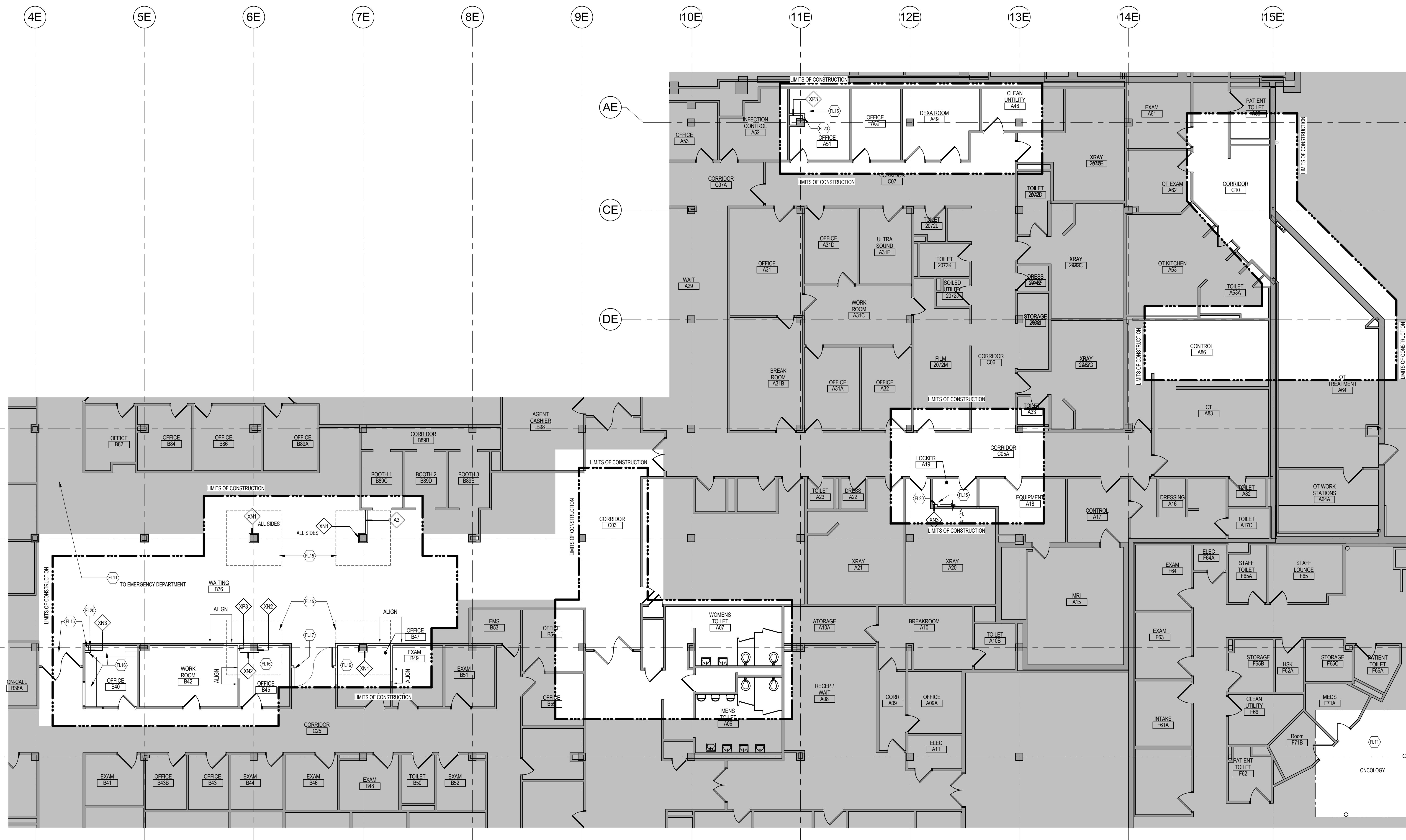
Drawing Number  
**AD121**

FLOOR PLAN SYMBOLS		
	EXISTING WALL TO REMAIN	8'-0" DIMENSION LINE, NOMINAL
	WALL	8'-0" EXTENDED DIMENSION LINE, NOMINAL
	EXISTING DOOR AND FRAME TO REMAIN	1A AE211 INTERIOR ELEVATION INDICATOR TAG
	DOOR	1A AE201 EXTERIOR ELEVATION INDICATOR TAG
	INTERIOR BORROWED LIGHT	203 EQUIPMENT TAG
	WALL TAG	100 FLOOR ELEVATION
	OFFICE	1A AE501 ROOM NAME AND NUMBER 1A AE501 DETAIL REFERENCE TAG
	KEY NOTE	1A AE201 INTERIOR SECTION REFERENCE TAG 1A AE201 EXTERIOR SECTION REFERENCE TAG
	REVISION TAG	PRO1 REVISION CLOUD
	GRIDLINE	

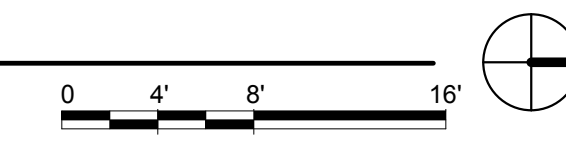
NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

FLOOR PLAN KEYED NOTES	
	UPGRADE PARTITION INDICATED TO NFPA101 1 HOUR FIRE / SMOKE BARRIER. SEAL ALL EXISTING PENETRATIONS WITH FIRE CAULK AS REQUIRED. SEE LIFE SAFETY PLAN
	REINSTALL POWER DOOR OPERATOR AND/OR CARD READER
	SEMI RECESSED FIRE EXTINGUISHER CABINET
	INFILL OPENING AT REMOVED SKYLIGHT AND PATCH ROOF AS REQUIRED. SEE STRUCTURAL
	PATCH FLOOR AS REQUIRED FROM DEMOLITION - SEE STRUCTURAL
	EXISTING LOUVERS TO BE REINSTALLED - SEE MECHANICAL
	FIRE RATED EXPANSION JOINT. SEE LIFE SAFETY PLANS AND STRUCTURAL FOR ADDITIONAL INFORMATION
	INFILL OPENING AT REMOVED SKYLIGHT AS REQUIRED. -SEE STRUCTURAL
	6" HIGH CONTINUOUS CONCRETE CURB
	6" HIGH CONCRETE HOUSEKEEPING PAD. COORDINATE SIZE AND LOCATION WITH MECHANICAL
	PNEUMATIC TUBE STATION. PROVIDE TUBE ROUTING THROUGH INTERSTITIAL AND ABOVE CEILING, AS REQUIRED, AND ALL REQUIRED EQUIPMENT, CONNECTIONS AND SUPPORT SYSTEMS FOR THIS STATION AND TWO FUTURE STATIONS. FUTURE STATIONS ARE TO BE A SENDING AND RECEIVING STATION AT GROUND FLOOR ONCOLOGY NURSE STATION AND AT NURSE STATION IN EMERGENCY DEPARTMENT. COORDINATE LOCATIONS WITH COR. SEE PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION
	18" x 18" ACCESS PANEL. COORDINATE LOCATION WITH MECHANICAL AND SPECIFICATIONS SECTION 08 31 13
	CONCRETE RAMP
	PATCH WALL AS REQUIRED FOR PIPE PENETRATIONS - SEE MEP DRAWINGS
	PATCH FLOOR AS REQUIRED FROM DEMOLITION - SEE MECHANICAL / STRUCTURAL
	REINSTALL SALVAGED COUNTERTOP AND WALL CABINET. MODIFY COUNTER TOP AS REQUIRED
	REINSTALL SALVAGED DOOR, FRAME AND HARDWARE
	REINSTALL SALVAGED DISPLAY CASE/DIRECTORY. COORDINATE LOCATION WITH OWNER
	REINSTALL SALVAGED SIGNAGE. COORDINATE LOCATION WITH OWNER
	INSTALL PARTITION TIGHT AS POSSIBLE TO PIPING. COORDINATE WITH MECHANICAL
	PATCH PARTITION AS REQUIRED FROM MECHANICAL/ELECTRICAL WORK. SEE MECHANICAL/ELECTRICAL FOR ADDITIONAL INFORMATION

NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

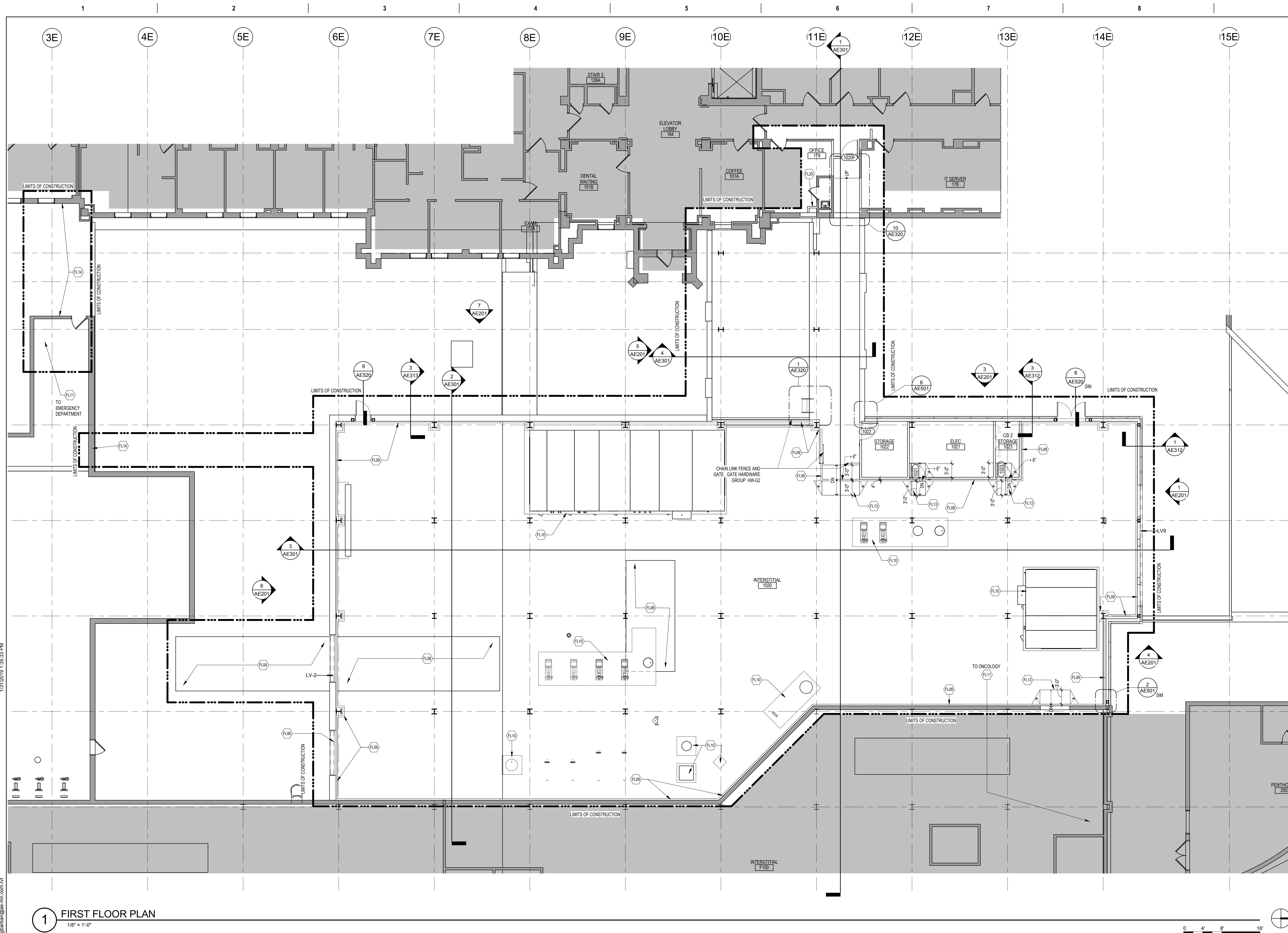


1 GROUND FLOOR PLAN  
1/8" = 1'-0"



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<b>CONSULTANT</b>  15 SUNNEN DR SUITE 104 SAINT LOUIS, MO 63143 PH: 314.645.1132 FAX: 314.645.1173 www.imegcorp.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Anderson Engineering of Minnesota, LLC 13605 1st Avenue North Suite 100 Plymouth, MN 55441 763-412-4000 (o) 763-412-4090 (f) www.ae-mn.com	<b>STAMP</b> I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of Minnesota. Signature: <i>Tom Olesak</i> Name: Tom Olesak Date: 01/10/2019 License Number: 18157	Office of Construction and Facilities Management  U.S. Department of Veterans Affairs	Drawing Title <b>GROUND FLOOR PLAN - OVERALL</b>	Phase <b>CONSTRUCTION DOCUMENTS</b>	Project Title <b>CONSTRUCT LABORATORY ADDITION</b>	Project Number <b>438-440</b>
				Approved:	<b>FULLY SPRINKLERED</b>	Location <b>SIOUX FALLS, SOUTH DAKOTA</b>	Building Number <b>5</b>
Revisions:	Date:	AE PROJECT NUMBER: 14567	U.S. Department of Veterans Affairs	Issue Date <b>01/11/2019</b>	Checked Drawn <b>GJB/JMT</b>	Drawing Number <b>AE101</b>	



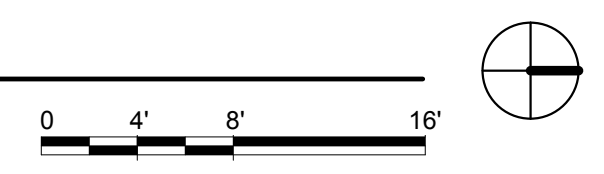
FLOOR PLAN SYMBOLS			
	EXISTING WALL TO REMAIN	8'-0"	DIMENSION LINE, NOMINAL
	WALL	8'-0"	EXTENDED DIMENSION LINE, NOMINAL
	EXISTING DOOR AND FRAME TO REMAIN	1A AE211	INTERIOR ELEVATION INDICATOR TAG
	DOOR	1A AE201	EXTERIOR ELEVATION INDICATOR TAG
	INTERIOR BORROWED LIGHT	200	EQUIPMENT TAG
	WALL TAG	B3 XXX	FLOOR ELEVATION
	OFFICE	101	ROOM NAME AND NUMBER
	KEY NOTE	(FN)	DETAIL REFERENCE TAG
	INTERIOR SECTION REFERENCE TAG	1A AE201	EXTERIOR SECTION REFERENCE TAG
	REVISION TAG	PRO1	REVISION CLOUD
	GRIDLINE	A	

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

FLOOR PLAN KEYED NOTES	
(FL01)	UPGRADE PARTITION INDICATED TO NFPA101 1 HOUR FIRE / SMOKE BARRIER. SEAL ALL EXISTING PENETRATIONS WITH FIRE CAULK AS REQUIRED. SEE LIFE SAFETY PLAN.
(FL02)	REINSTALL POWER DOOR OPERATOR AND/OR CARD READER
(FL03)	SEMI RECESSED FIRE EXTINGUISHER CABINET
(FL04)	INFILL OPENING AT REMOVED SKYLIGHT AND PATCH ROOF AS REQUIRED. SEE STRUCTURAL.
(FL05)	PATCH FLOOR AS REQUIRED FROM DEMOLITION - SEE STRUCTURAL.
(FL06)	EXISTING LOUVERS TO BE REINSTALLED - SEE MECHANICAL.
(FL07)	FIRE RATED EXPANSION JOINT. SEE LIFE SAFETY PLANS AND STRUCTURAL FOR ADDITIONAL INFORMATION.
(FL08)	INFILL OPENING AT REMOVED SKYLIGHT AS REQUIRED. SEE STRUCTURAL.
(FL09)	6" HIGH CONTINUOUS CONCRETE CURB
(FL10)	6" HIGH CONCRETE HOUSEKEEPING PAD. COORDINATE SIZE AND LOCATION WITH MECHANICAL.
(FL11)	PNEUMATIC TUBE STATION. PROVIDE TUBE ROUTING THROUGH INTERSTITIAL AND ABOVE CEILING, AS REQUIRED, AND ALL REQUIRED EQUIPMENT, CONNECTIONS AND SUPPORT SYSTEMS FOR THIS STATION AND TWO FUTURE STATIONS. FUTURE STATIONS ARE TO BE A SENDING AND RECEIVING STATION AT GROUND FLOOR ONCOLOGY NURSE STATION AND AT NURSE STATION IN EMERGENCY DEPARTMENT. COORDINATE LOCATIONS WITH COR. SEE PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
(FL12)	18" x 18" ACCESS PANEL. COORDINATE LOCATION WITH MECHANICAL AND SPECIFICATIONS SECTION 08 31 13.
(FL13)	CONCRETE RAMP
(FL14)	PATCH WALL AS REQUIRED FOR PIPE PENETRATIONS - SEE MEP DRAWINGS
(FL15)	PATCH FLOOR AS REQUIRED FROM DEMOLITION - SEE MECHANICAL / STRUCTURAL
(FL16)	REINSTALL SALVAGED COUNTERTOP AND WALL CABINET. MODIFY COUNTER TOP AS REQUIRED
(FL17)	REINSTALL SALVAGED DOOR, FRAME AND HARDWARE
(FL18)	REINSTALL SALVAGED DISPLAY CASE/DIRECTORY. COORDINATE LOCATION WITH OWNER
(FL19)	REINSTALL SALVAGED SIGNAGE. COORDINATE LOCATION WITH OWNER
(FL20)	INSTALL PARTITION TIGHT AS POSSIBLE TO PIPING. COORDINATE WITH MECHANICAL.
(FL21)	PATCH PARTITION AS REQUIRED FROM MECHANICAL/ELECTRICAL WORK. SEE MECHANICAL/ELECTRICAL FOR ADDITIONAL INFORMATION

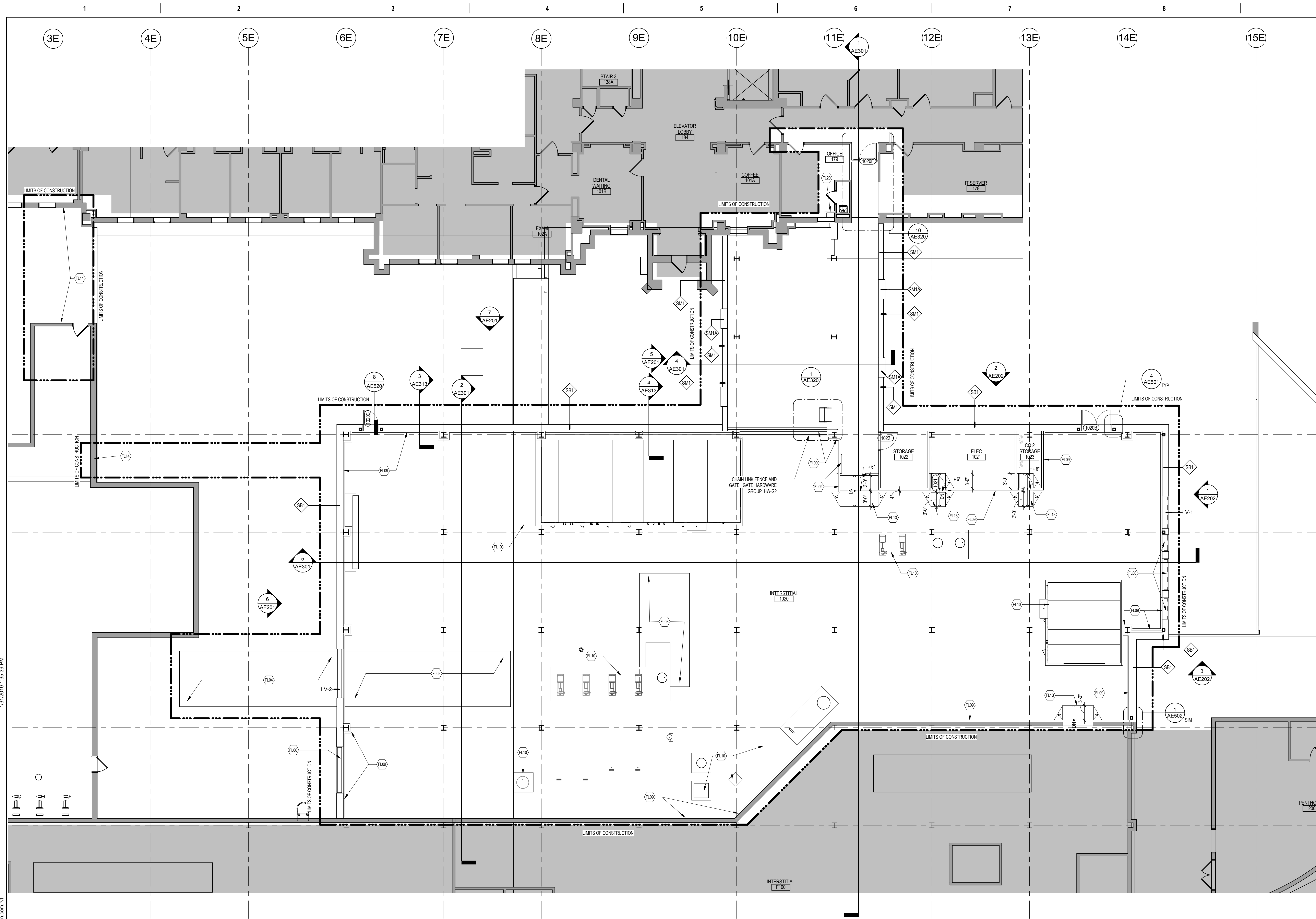
NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

**1 FIRST FLOOR PLAN**  
1/8" = 1'-0"



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<b>CONSULTANT</b>  15 SUNNEN DR SUITE 104 SAINT LOUIS, MO 63143 PH: 314.645.1132 FAX: 314.645.1173 www.imegcorp.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Anderson Engineering of Minnesota, LLC 13605 1st Avenue North Suite 100 Plymouth, MN 55441 763-412-4000 (o) 763-412-4090 (f) www.ae-mn.com	<b>STAMP</b> I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota. Signature: <i>Tom Olesak</i> Name: Tom Olesak Date: 01/10/2019 License Number: 18157	<b>Office of Construction and Facilities Management</b> U.S. Department of Veterans Affairs	Drawing Title <b>FIRST FLOOR PLAN - OVERALL</b>	Phase <b>CONSTRUCTION DOCUMENTS</b>	Project Title <b>CONSTRUCT LABORATORY ADDITION</b>	Project Number <b>438-440</b>
				Approved:	<b>FULLY SPRINKLERED</b>	Location <b>SIOUX FALLS, SOUTH DAKOTA</b>	Building Number <b>5</b>
Revisions:	Date:	<b>AE PROJECT NUMBER: 14567</b>	<b>VA</b>	Issue Date <b>01/11/2019</b>	Checked <input type="checkbox"/>	Drawn <input type="checkbox"/>	Drawing Number <b>AE111</b>



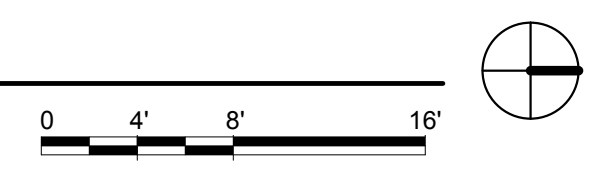
FLOOR PLAN SYMBOLS		
	EXISTING WALL TO REMAIN	8'-0"
	WALL	8'-0"
	EXISTING DOOR AND FRAME TO REMAIN	1A AE211 2B
	DOOR	1A AE201
	INTERIOR BORROWED LIGHT	203
	WALL TAG	100
	OFFICE	ROOM NAME AND NUMBER
	KEY NOTE	(FN)
	INTERIOR SECTION REFERENCE TAG	1A AE201
	EXTERIOR SECTION REFERENCE TAG	1A AE201
	REVISION TAG	PRO1
	REVISION CLOUD	
	GRIDLINE	A

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

FLOOR PLAN KEYED NOTES	
FL01	UPGRADE PARTITION INDICATED TO NFPA101 1 HOUR FIRE / SMOKE BARRIER. SEAL ALL EXISTING PENETRATIONS WITH FIRE CAULK AS REQUIRED. SEE STRUCTURAL.
FL02	REINSTALL POWER DOOR OPERATOR AND/OR CARD READER
FL03	SEMI RECESSED FIRE EXTINGUISHER CABINET
FL04	INFILL OPENING AT REMOVED SKYLIGHT AND PATCH ROOF AS REQUIRED. SEE STRUCTURAL.
FL05	PATCH FLOOR AS REQUIRED FROM DEMOLITION - SEE STRUCTURAL.
FL06	EXISTING LOUVERS TO BE REINSTALLED - SEE MECHANICAL.
FL07	FIRE RATED EXPANSION JOINT. SEE LIFE SAFETY PLANS AND STRUCTURAL FOR ADDITIONAL INFORMATION.
FL08	INFILL OPENING AT REMOVED SKYLIGHT AS REQUIRED. SEE STRUCTURAL.
FL09	6" HIGH CONTINUOUS CONCRETE CURB
FL10	6" HIGH CONCRETE HOUSEKEEPING PAD. COORDINATE SIZE AND LOCATION WITH MECHANICAL.
FL11	PNEUMATIC TUBE STATION. PROVIDE TUBE ROUTING THROUGH INTERSTITIAL AND ABOVE CEILING, AS REQUIRED, AND ALL REQUIRED EQUIPMENT, CONNECTIONS AND SUPPORT SYSTEMS FOR THIS STATION AND TWO FUTURE STATIONS. FUTURE STATIONS ARE TO BE A SENDING AND RECEIVING STATION AT GROUND FLOOR ONCOLOGY NURSE STATION AND AT NURSE STATION IN EMERGENCY DEPARTMENT. COORDINATE LOCATIONS WITH COR. SEE PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
FL12	18" x 18" ACCESS PANEL. COORDINATE LOCATION WITH MECHANICAL AND SPECIFICATIONS SECTION 08 31 13.
FL13	CONCRETE RAMP
FL14	PATCH WALL AS REQUIRED FOR PIPE PENETRATIONS - SEE MEP DRAWINGS
FL15	PATCH FLOOR AS REQUIRED FROM DEMOLITION - SEE MECHANICAL / STRUCTURAL.
FL16	REINSTALL SALVAGED COUNTERTOP AND WALL CABINET. MODIFY COUNTER TOP AS REQUIRED.
FL17	REINSTALL SALVAGED DOOR, FRAME AND HARDWARE
FL18	REINSTALL SALVAGED DISPLAY CASE/DIRECTORY. COORDINATE LOCATION WITH OWNER.
FL19	REINSTALL SALVAGED SIGNAGE. COORDINATE LOCATION WITH OWNER.
FL20	INSTALL PARTITION TIGHT AS POSSIBLE TO PIPING. COORDINATE WITH MECHANICAL.
FL21	PATCH PARTITION AS REQUIRED FROM MECHANICAL/ELECTRICAL WORK. SEE MECHANICAL/ELECTRICAL FOR ADDITIONAL INFORMATION.

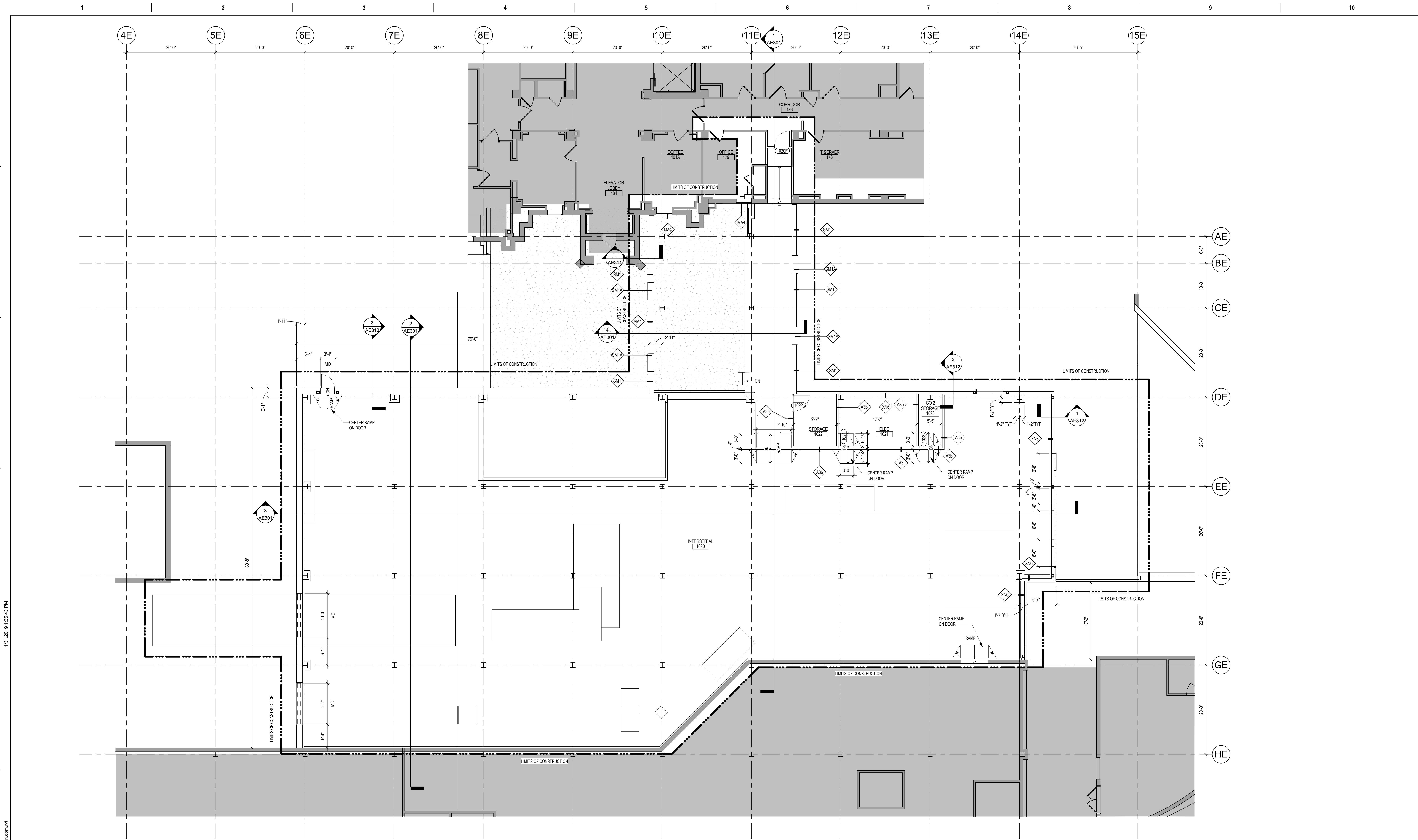
NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

**1 FIRST FLOOR PLAN (DEDUCT ALTERNATE)**  
1/8" = 1'-0"



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<b>CONSULTANT</b>  15 SUNNEN DR SUITE 104 SAINT LOUIS, MO 63143 PH: 314.645.1132 FAX: 314.645.1173 www.imegcorp.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Anderson Engineering of Minnesota, LLC 13605 1st Avenue North Suite 100 Plymouth, MN 55441 763-412-4000 (o) 763-412-4090 (f) www.ae-mn.com	<b>STAMP</b> I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota. Signature: <i>Tom Olesak</i> Name: Tom Olesak Date: 01/10/2019 License Number: 18157	<b>Office of Construction and Facilities Management</b> U.S. Department of Veterans Affairs	Drawing Title <b>FIRST FLOOR PLAN - OVERALL (DEDUCT ALTERNATE)</b>	Phase <b>CONSTRUCTION DOCUMENTS</b>	Project Title <b>CONSTRUCT LABORATORY ADDITION</b>	Project Number <b>438-440</b>	
				Approved:	<b>FULLY SPRINKLERED</b>	Location <b>SIOUX FALLS, SOUTH DAKOTA</b>	Building Number <b>5</b>	
35% SD REVIEW Revisions:	03/14/2018 Date:	<b>AE PROJECT NUMBER: 14567</b>	<b>VA</b>	Approved:	<b>FULLY SPRINKLERED</b>	Issue Date <b>01/11/2019</b>	Checked Drawn <b>GJB/JMT</b>	Drawing Number <b>AE111.1</b>



**1** FIRST FLOOR DIMENSION PLAN  
1/8" = 1'-0"

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Revisions:	Date:

**CONSULTANT**

**IMEG**

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AE PROJECT NUMBER: 14567

**STAMP**

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of Minnesota.

Signature: *[Signature]*

Name: Tom Olesak  
Date: 01/10/2019  
License Number: 18157

Office of Construction and Facilities Management

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**FIRST FLOOR DIMENSION PLAN**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

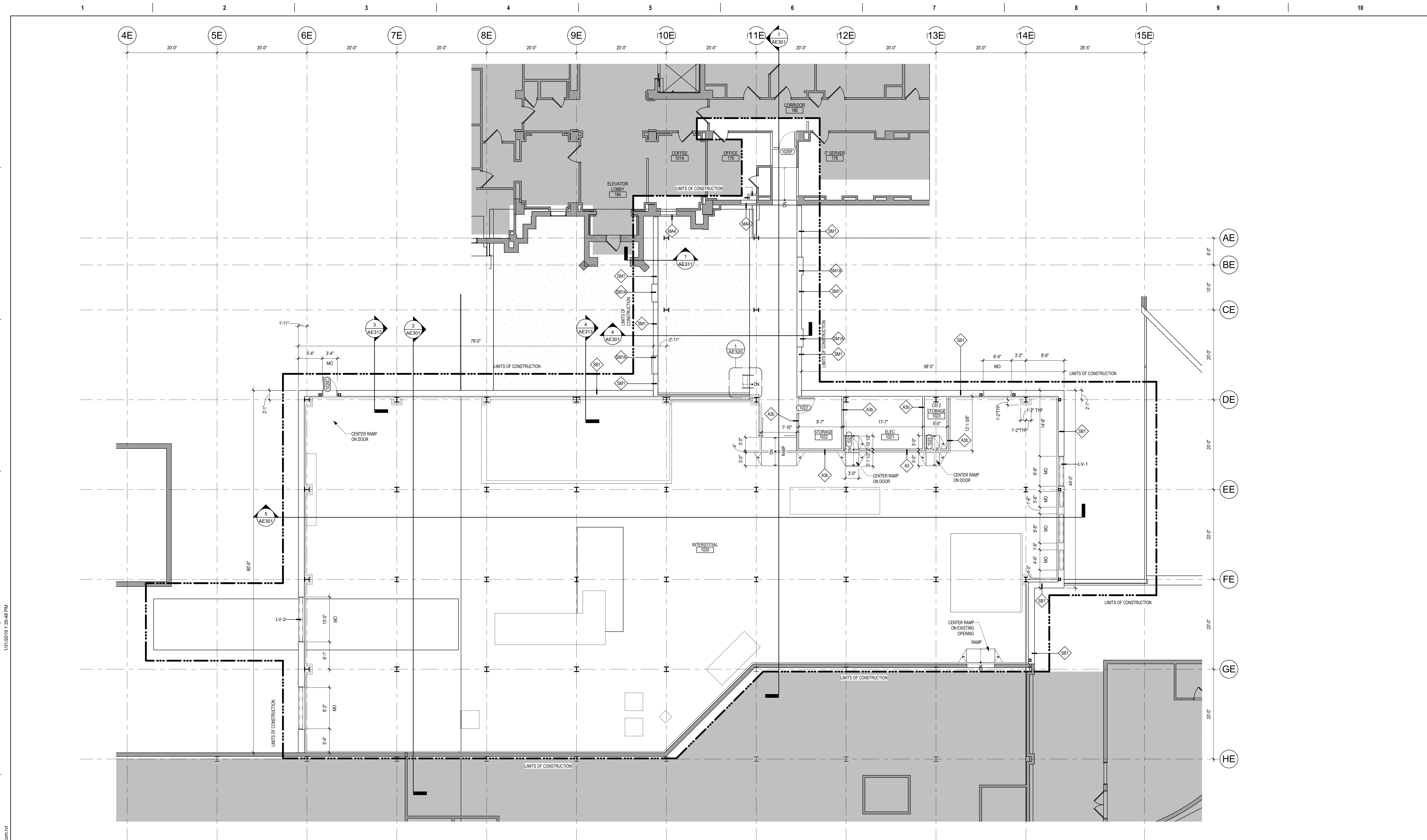
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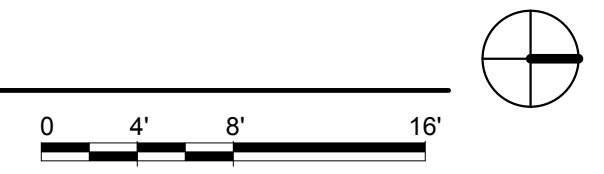
Project Number  
438-440

Building Number  
5

Drawing Number  
**AE112**



1 FIRST FLOOR DIMENSION PLAN (DEDUCT ALTERNATE)  
1/8" = 1'-0"



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Revisions:	Date:

**CONSULTANT**

**IMEG**

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Plymouth, MN 55441  
763-412-4000 (o) 763-412-4090 (f)  
www.ae-mn.com

AE PROJECT NUMBER: 14567

**STAMP**

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of Minnesota.

Signature: *[Signature]*

Name: Tom Olesak  
Date: 01/10/2019  
License Number: 18157

Office of  
Construction  
and Facilities  
Management

**VA** U.S. Department  
of Veterans  
Affairs

Drawing Title  
**FIRST FLOOR DIMENSION PLAN  
(DEDUCT ALTERNATE)**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION  
DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY  
ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

Checked  
\_\_\_\_\_

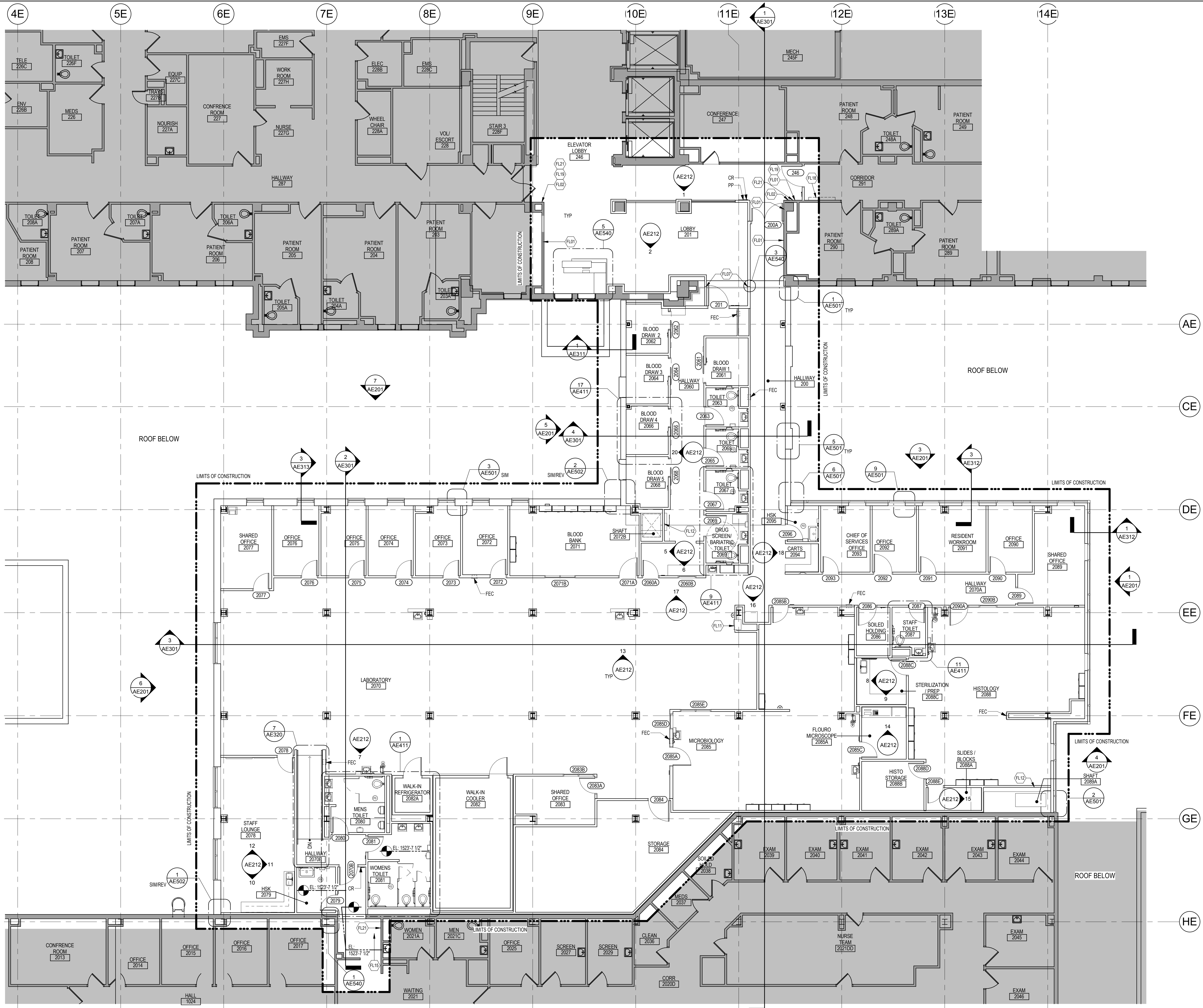
Drawn  
GJB/JMT

Project Number  
438-440

Building Number  
5

Drawing Number  
**AE112.1**





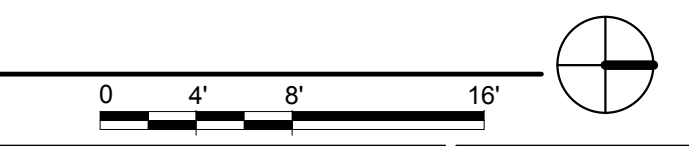
FLOOR PLAN SYMBOLS			
	EXISTING WALL TO REMAIN	8'-0"	DIMENSION LINE, NOMINAL
	WALL	8'-0"	EXTENDED DIMENSION LINE, NOMINAL
	EXISTING DOOR AND FRAME TO REMAIN	1A AE211	INTERIOR ELEVATION INDICATOR TAG
	DOOR	1A AE201	EXTERIOR ELEVATION INDICATOR TAG
	INTERIOR BORROWED LIGHT	200	EQUIPMENT TAG
	WALL TAG	100	FLOOR ELEVATION
	OFFICE	101	ROOM NAME AND NUMBER
	KEY NOTE	(FN)	DETAIL REFERENCE TAG
	INTERIOR SECTION REFERENCE TAG	1A AE201	EXTERIOR SECTION REFERENCE TAG
	REVISION TAG	PRO1	REVISION CLOUD
	GRIDLINE	A	

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

FLOOR PLAN KEYED NOTES	
	UPGRADE PARTITION INDICATED TO NFPA101 1 HOUR FIRE / SMOKE BARRIER. SEAL ALL EXISTING PENETRATIONS WITH FIRE CAULK AS REQUIRED. SEE LIFE SAFETY PLAN.
	REINSTALL POWER DOOR OPERATOR AND/OR CARD READER
	SEMI RECESSED FIRE EXTINGUISHER CABINET
	INFILL OPENING AT REMOVED SKYLIGHT AND PATCH ROOF AS REQUIRED. -SEE STRUCTURAL.
	PATCH FLOOR AS REQUIRED FROM DEMOLITION -SEE STRUCTURAL.
	EXISTING LOUVERS TO BE REINSTALLED - SEE MECHANICAL.
	FIRE RATED EXPANSION JOINT. SEE LIFE SAFETY PLANS AND STRUCTURAL FOR ADDITIONAL INFORMATION.
	INFILL OPENING AT REMOVED SKYLIGHT AS REQUIRED. -SEE STRUCTURAL.
	6" HIGH CONTINUOUS CONCRETE CURB
	6" HIGH CONCRETE HOUSEKEEPING PAD. COORDINATE SIZE AND LOCATION WITH MECHANICAL.
	PNEUMATIC TUBE STATION. PROVIDE TUBE ROUTING THROUGH INTERSTITIAL AND ABOVE CEILING, AS REQUIRED, AND ALL REQUIRED EQUIPMENT, CONNECTIONS AND SUPPORT SYSTEMS FOR THIS STATION AND TWO FUTURE STATIONS. FUTURE STATIONS ARE TO BE A SENDING AND RECEIVING STATION AT GROUND FLOOR ONCOLOGY NURSE STATION AND AT NURSE STATION IN EMERGENCY DEPARTMENT. COORDINATE LOCATIONS WITH COR. SEE PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
	18" x 18" ACCESS PANEL. COORDINATE LOCATION WITH MECHANICAL AND SPECIFICATIONS SECTION 08 31 13.
	CONCRETE RAMP
	PATCH WALL AS REQUIRED FOR PIPE PENETRATIONS - SEE MEP DRAWINGS
	PATCH FLOOR AS REQUIRED FROM DEMOLITION -SEE MECHANICAL / STRUCTURAL.
	REINSTALL SALVAGED COUNTERTOP AND WALL CABINET. MODIFY COUNTER TOP AS REQUIRED.
	REINSTALL SALVAGED DOOR, FRAME AND HARDWARE
	REINSTALL SALVAGED DISPLAY CASE/DIRECTORY. COORDINATE LOCATION WITH OWNER.
	REINSTALL SALVAGED SIGNAGE. COORDINATE LOCATION WITH OWNER.
	INSTALL PARTITION TIGHT AS POSSIBLE TO PIPING. COORDINATE WITH MECHANICAL.
	PATCH PARTITION AS REQUIRED FROM MECHANICAL/ELECTRICAL WORK. SEE MECHANICAL/ELECTRICAL FOR ADDITIONAL INFORMATION.

NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

1 SECOND FLOOR PLAN  
1/8" = 1'-0"



Revisions:	Date:

**CONSULTANT**

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AE PROJECT NUMBER: 14567

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Signature: *[Signature]*

Name: Tom Oleasak  
Date: 01/10/2019  
License Number: 18157

Office of  
Construction  
and Facilities  
Management

**VA** U.S. Department  
of Veterans  
Affairs

Drawing Title  
**SECOND FLOOR PLAN - OVERALL**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

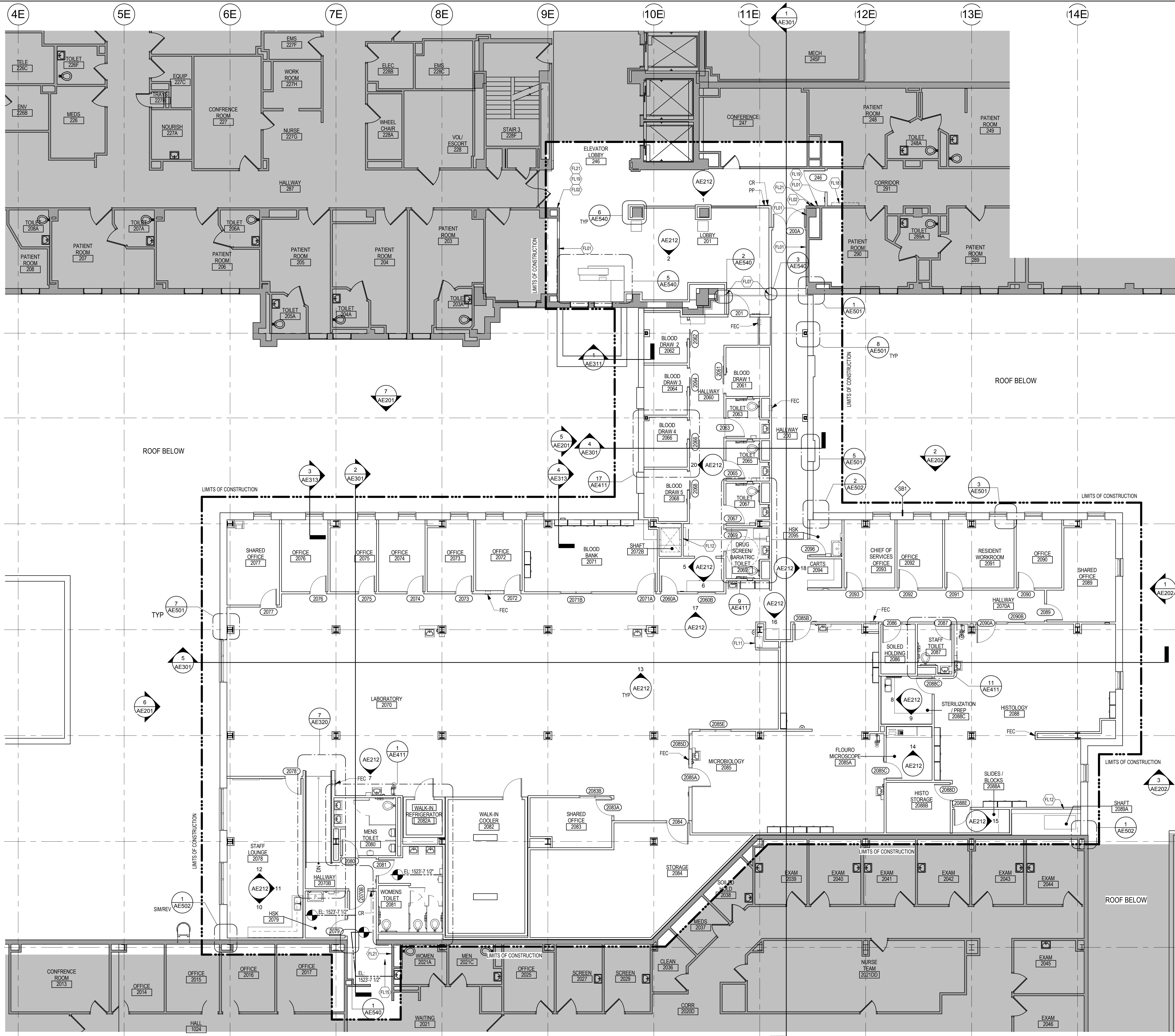
Issue Date  
01/11/2019

Checked \_\_\_\_\_  
Drawn \_\_\_\_\_

Project Number  
**438-440**

Building Number  
**5**

Drawing Number  
**AE121**



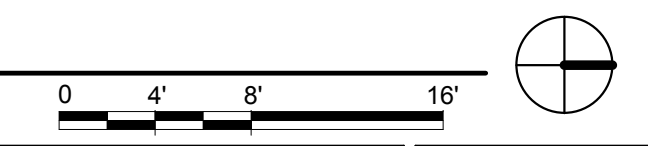
FLOOR PLAN SYMBOLS			
	EXISTING WALL TO REMAIN	8'-0"	DIMENSION LINE, NOMINAL
	WALL	8'-0"	EXTENDED DIMENSION LINE, NOMINAL
	EXISTING DOOR AND FRAME TO REMAIN	1A AE211	INTERIOR ELEVATION INDICATOR TAG
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	INTERIOR BORROWED LIGHT	200	EQUIPMENT TAG
	WALL TAG	100	FLOOR ELEVATION
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	REVISION TAG	PRO1	REVISION CLOUD
	GRIDLINE	A	

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

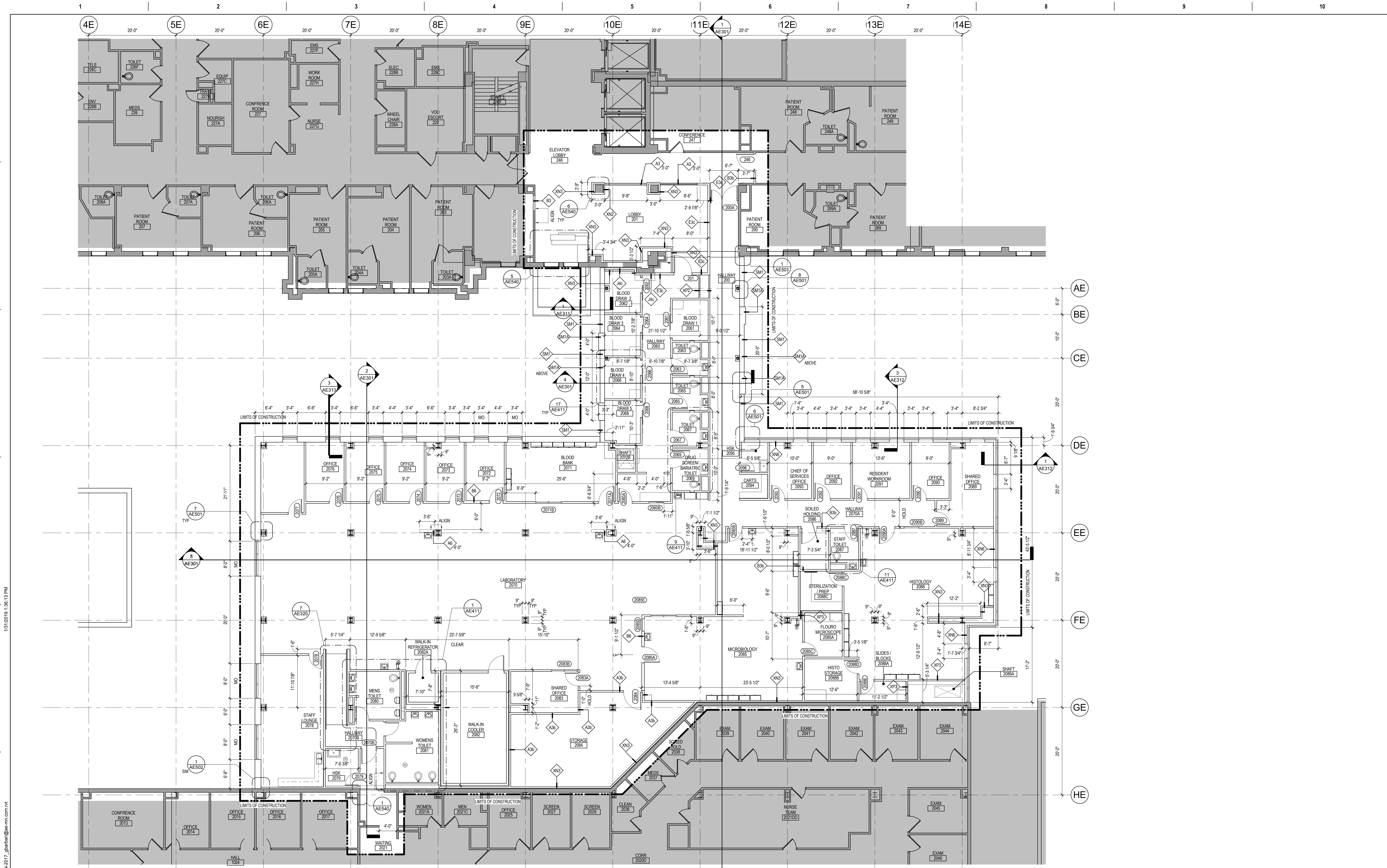
FLOOR PLAN KEYED NOTES	
	UPGRADE PARTITION INDICATED TO NFPA101 1 HOUR FIRE / SMOKE BARRIER. SEAL ALL EXISTING PENETRATIONS WITH FIRE CAULK AS REQUIRED. SEE LIFE SAFETY PLAN.
	REINSTALL POWER DOOR OPERATOR AND/OR CARD READER
	SEMI RECESSED FIRE EXTINGUISHER CABINET
	INFILL OPENING AT REMOVED SKYLIGHT AND PATCH ROOF AS REQUIRED. -SEE STRUCTURAL
	PATCH FLOOR AS REQUIRED FROM DEMOLITION -SEE STRUCTURAL
	EXISTING LOUVERS TO BE REINSTALLED - SEE MECHANICAL
	FIRE RATED EXPANSION JOINT. SEE LIFE SAFETY PLANS AND STRUCTURAL FOR ADDITIONAL INFORMATION
	INFILL OPENING AT REMOVED SKYLIGHT AS REQUIRED. -SEE STRUCTURAL
	6" HIGH CONTINUOUS CONCRETE CURB
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	18" x 18" ACCESS PANEL. COORDINATE LOCATION WITH MECHANICAL AND SPECIFICATIONS SECTION 08 31 13
	CONCRETE RAMP
	PATCH WALL AS REQUIRED FOR PIPE PENETRATIONS - SEE MEP DRAWINGS
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	PATCH PARTITION AS REQUIRED FROM MECHANICAL/ELECTRICAL WORK. SEE MECHANICAL/ELECTRICAL FOR ADDITIONAL INFORMATION

NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

1 SECOND FLOOR PLAN (DEDUCT ALTERNATE)  
1/8" = 1'-0"



<b>CONSULTANT</b>  15 SUNNEN DR SUITE 104 SAINT LOUIS, MO 63143 PH: 314.645.1132 FAX: 314.645.1173 www.imegcorp.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Anderson Engineering of Minnesota, LLC 13605 1st Avenue North Suite 100 Plymouth, MN 55441 763-412-4000 (o) 763-412-4090 (f) www.ae-mn.com	<b>STAMP</b> I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota. Signature: <i>[Signature]</i> Name: Tom Olesak Date: 01/10/2019 License Number: 18157	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>SECOND FLOOR PLAN - OVERALL                  (DEDUCT ALTERNATE)</b>	Phase <b>CONSTRUCTION                  DOCUMENTS</b>	Project Title <b>CONSTRUCT LABORATORY                  ADDITION</b>	Project Number <b>438-440</b>
				Approved:	<b>FULLY SPRINKLERED</b>	Location <b>SIOUX FALLS, SOUTH DAKOTA</b>	Building Number <b>5</b>
Revisions:	Date:	AE PROJECT NUMBER: 14567	U.S. Department of Veterans Affairs	Issue Date <b>01/11/2019</b>	Checked Drawn <b>GJB/JMT</b>	Drawing Number <b>AE121.1</b>	



**1 SECOND FLOOR DIMENSION PLAN**  
1/8" = 1'-0"

Revisions:	Date:

**CONSULTANT**

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AE PROJECT NUMBER: 14567

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Signature: *[Signature]*

Name: Tom Olesak  
Date: 01/10/2019  
License Number: 18157

Office of  
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and Facilities  
Management

**VA** U.S. Department  
of Veterans  
Affairs

Drawing Title  
**SECOND FLOOR DIMENSION PLAN**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

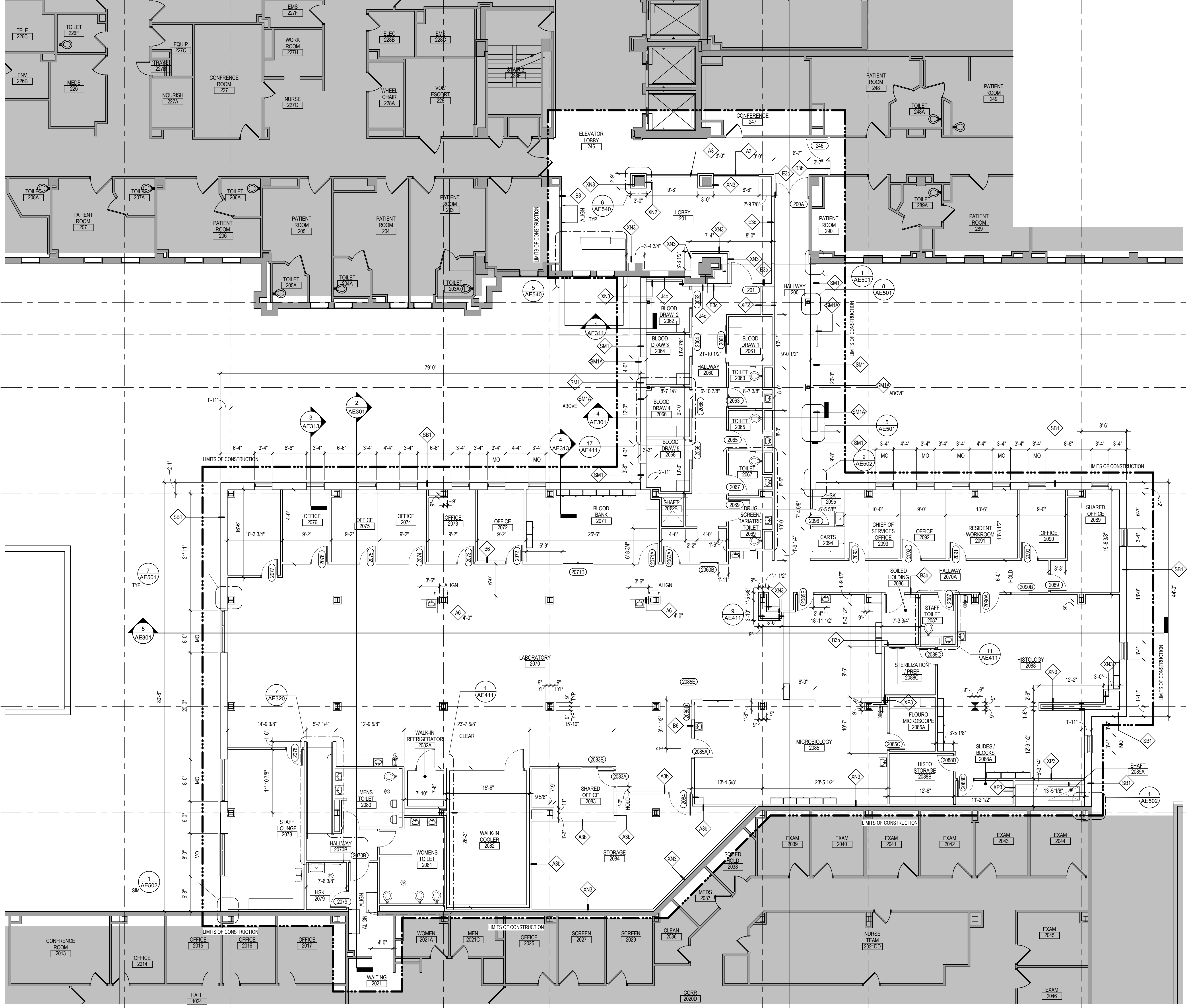
Checked

Drawn  
GJB

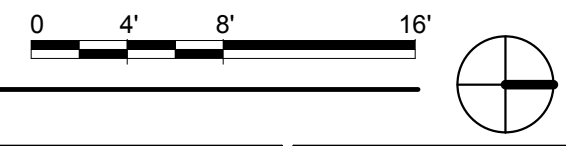
Project Number  
**438-440**

Building Number  
**5**

Drawing Number  
**AE122**



1 2ND FLOOR DIMENSION PLAN (DEDUCT ALTERNATE)  
1/8" = 1'-0"



Revisions:	Date:

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Signature: *[Signature]*

Name: Tom Olesak  
Date: 01/10/2019  
License Number: 18157

Office of  
Construction  
and Facilities  
Management

**VA** U.S. Department  
of Veterans  
Affairs

Drawing Title  
**SECOND FLOOR DIMENSION PLAN  
(DEDUCT ALTERNATE)**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION  
DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY  
ADDITION**

Location  
**SIoux FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

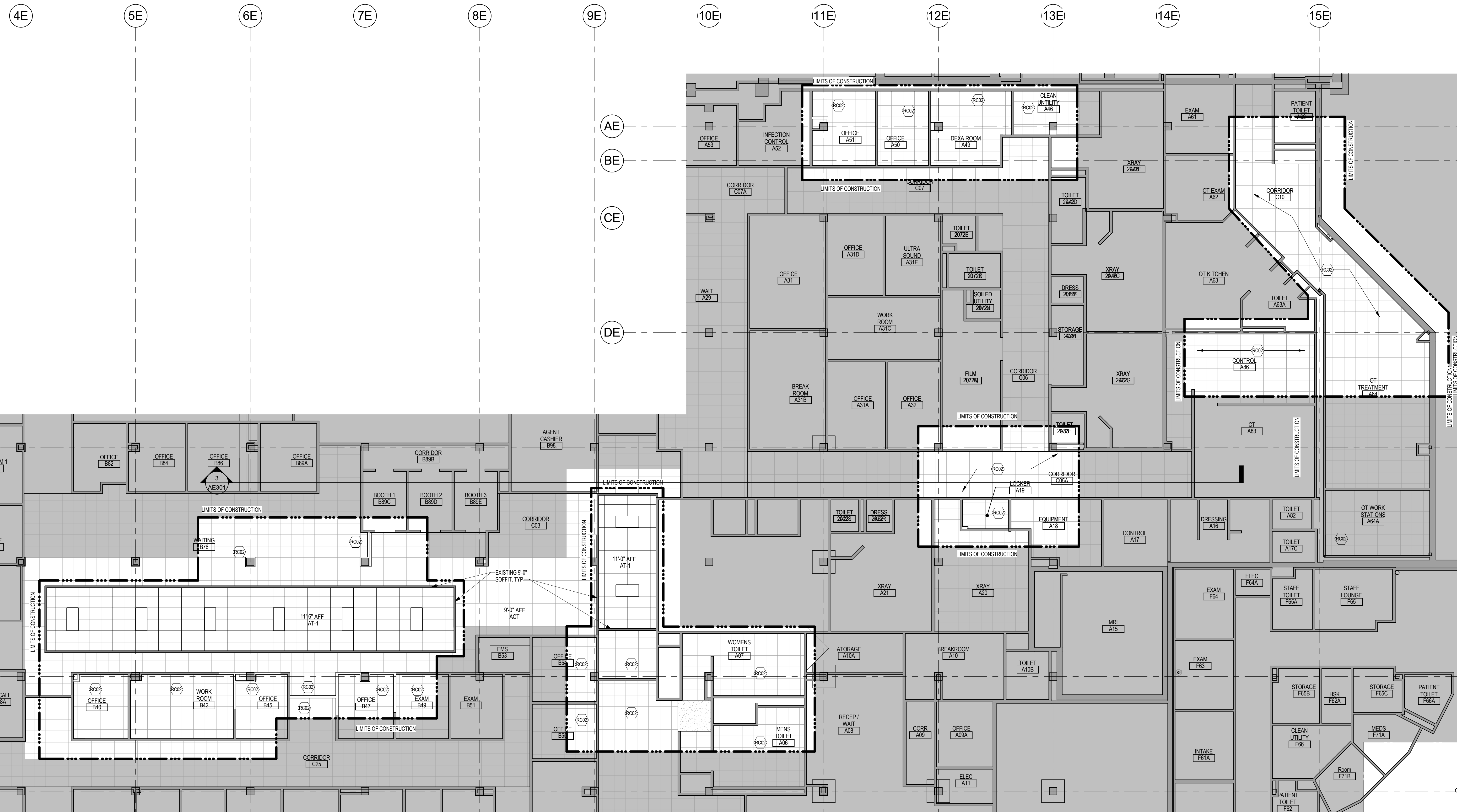
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Drawn  
GJB/JMT

Project Number  
**438-440**

Building Number  
**5**

Drawing Number  
**AE122.1**



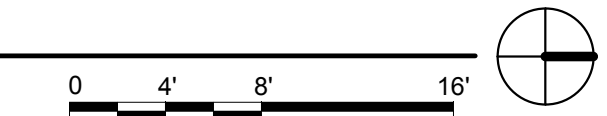
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	ACT CEILING SYSTEM		2'-0" x 2'-0" LIGHT FIXTURE
	EXISTING ACT CEILING SYSTEM		PENDANT STRIP LIGHT FIXTURE
	IV TRACK		PENDANT STRIP LIGHT FIXTURE
	CUBICLE CURTAIN TRACK		RECESSED LIGHT FIXTURE
	ACCESS PANEL		WALL SCONCE LIGHT FIXTURE
	MECHANICAL SUPPLY GRILL		MECHANICAL LINEAR SUPPLY GRILL
	MECHANICAL RETURN GRILL		9'-0" AFF ACT CEILING ELEVATION AND FINISH

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

	MODIFY CEILING AS REQUIRED. SEE PLANS FOR ADDITIONAL INFORMATION
	REINSTALL SALVAGED CEILING TILE, GRID AND ANY MECHANICAL ITEMS AS REQUIRED FROM CONSTRUCTION. SEE PLANS
	PROVIDE ACCESS PANELS PER SPECIFICATIONS SECTION 08 31 13

NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

**1** GROUND FLOOR REFLECTED CEILING PLAN  
1/8" = 1'-0"



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Revisions:	Date:

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AE PROJECT NUMBER: 14567

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Signature: *[Signature]*

Name: Tom Olesak  
Date: 01/10/2019  
License Number: 18157

Office of Construction and Facilities Management

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**GROUND FLOOR REFLECTED CEILING PLAN**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

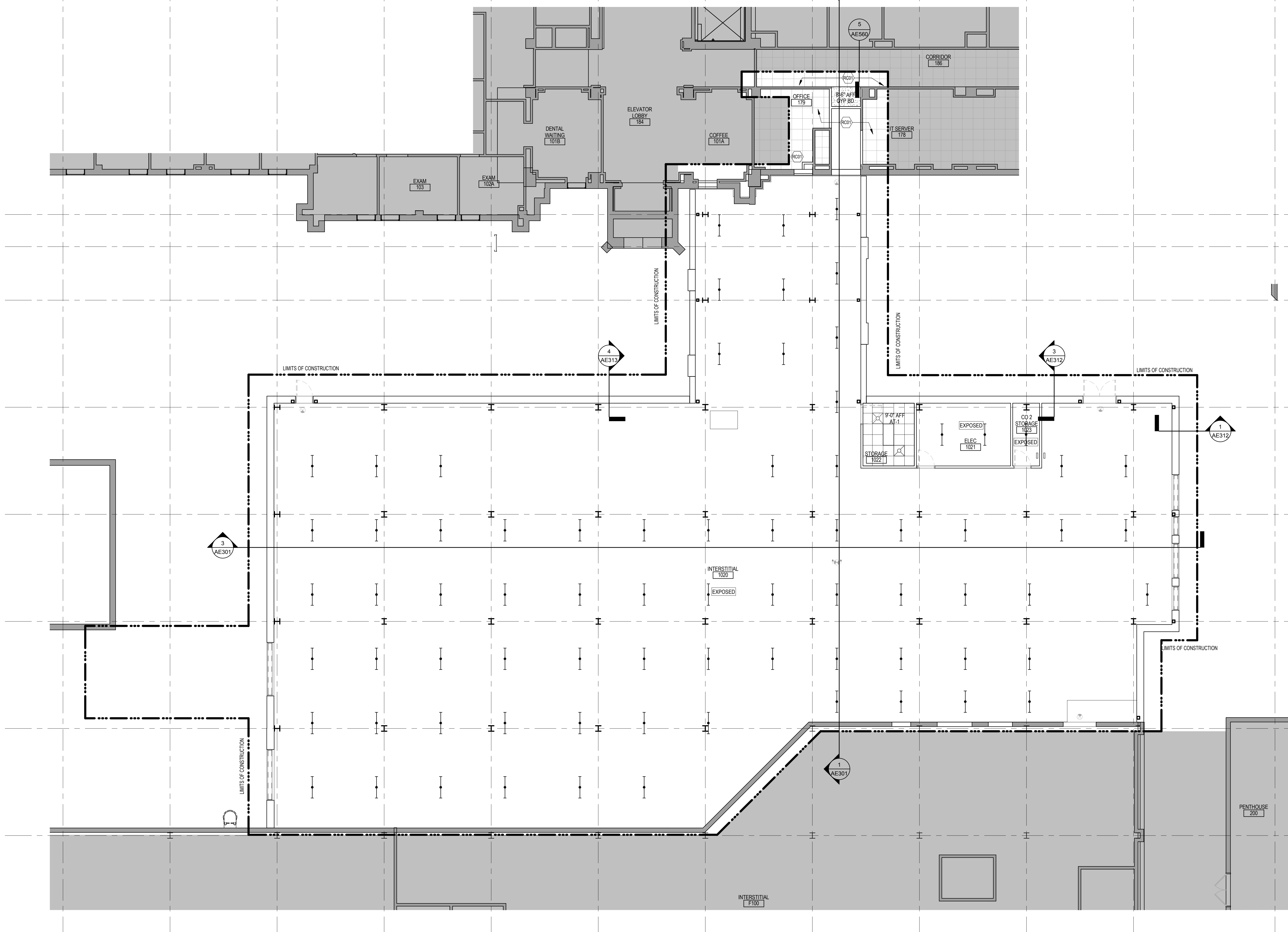
Checked

Drawn  
GJB/JMT

Project Number  
**438-440**

Building Number  
**5**

Drawing Number  
**AC101**



REFLECTED CEILING PLAN SYMBOLS			
	GRID CEILING / SOFFIT		2'-0" x 4'-0" LIGHT FIXTURE
	ACT CEILING SYSTEM		2'-0" x 2'-0" LIGHT FIXTURE
	EXISTING ACT CEILING SYSTEM		PENDANT STRIP LIGHT FIXTURE
	IV TRACK		PENDANT STRIP LIGHT FIXTURE
	CUBICLE CURTAIN TRACK		RECESSED LIGHT FIXTURE
	ACCESS PANEL		WALL SCONCE LIGHT FIXTURE
	MECHANICAL SUPPLY GRILL		MECHANICAL LINEAR SUPPLY GRILL
	MECHANICAL RETURN GRILL		9'-0" AFF ACT CEILING ELEVATION AND FINISH

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

REFLECTED CEILING KEYED NOTES	
	MODIFY CEILING AS REQUIRED. SEE PLANS FOR ADDITIONAL INFORMATION
	REINSTALL SALVAGED CEILING TILE, GRID AND ANY MECHANICAL ITEMS AS REQUIRED FROM CONSTRUCTION. SEE PLANS
	PROVIDE ACCESS PANELS PER SPECIFICATIONS SECTION 08 31 13

NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

1 FIRST FLOOR REFLECTED CEILING PLAN  
1/8" = 1'-0"



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Revisions:	Date:

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AE PROJECT NUMBER: 14567

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Signature: *[Handwritten Signature]*

Name: Tom Olesak  
Date: 01/10/2019  
License Number: 18157

Office of Construction and Facilities Management

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**FIRST FLOOR REFLECTED CEILING PLAN**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

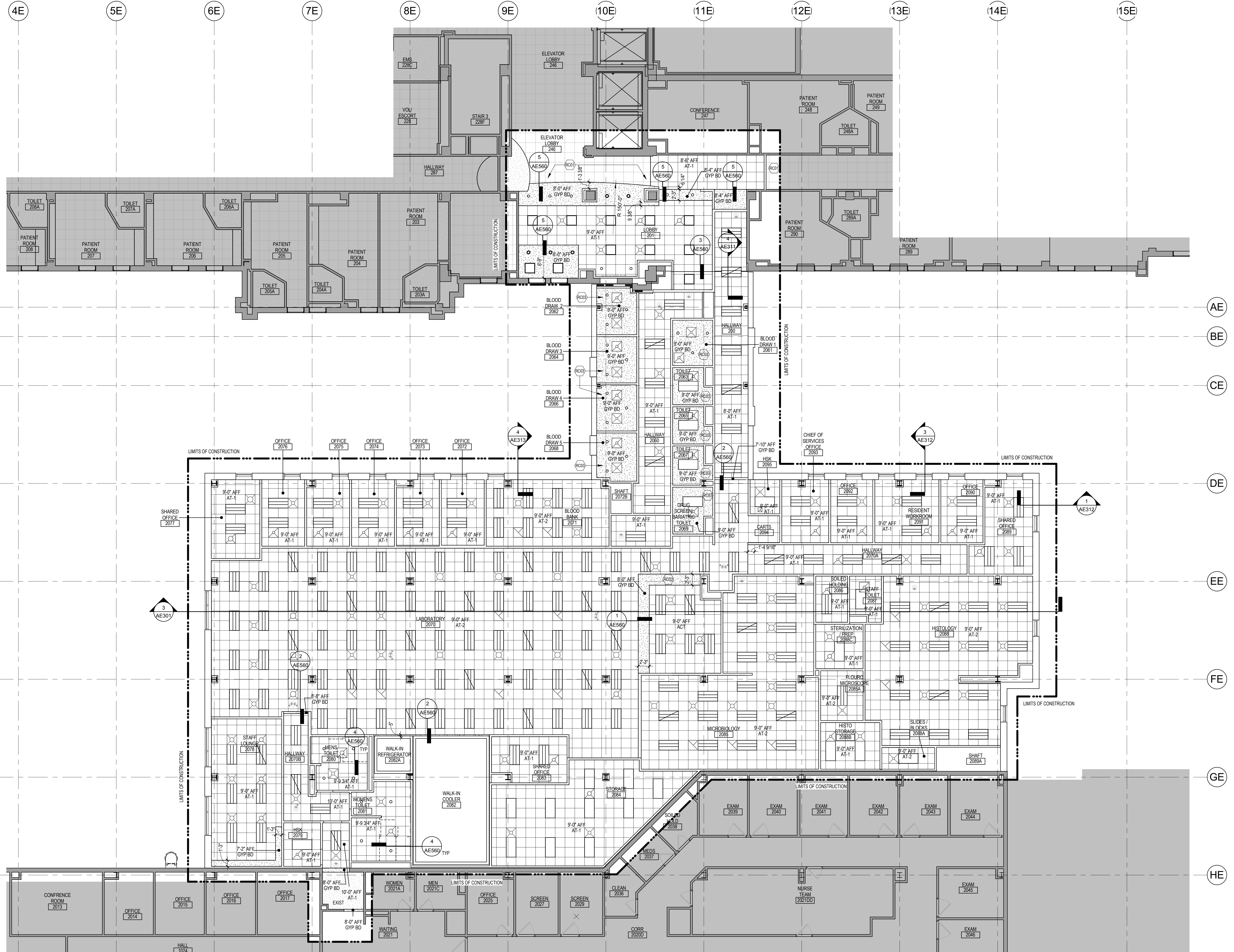
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Drawn  
GJB/JMT

Project Number  
**438-440**

Building Number  
**5**

Drawing Number  
**AC111**



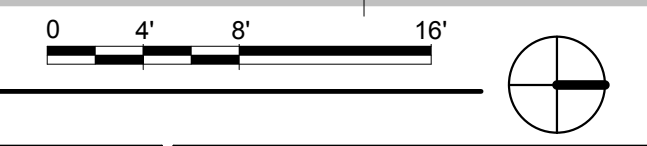
REFLECTED CEILING PLAN SYMBOLS			
	GPRD CEILING / SOFFIT		2'-0" x 2'-0" LIGHT FIXTURE
	ACT CEILING SYSTEM		2'-0" x 2'-0" LIGHT FIXTURE
	EXISTING ACT CEILING SYSTEM		PENDANT STRIP LIGHT FIXTURE
	IV TRACK		PENDANT STRIP LIGHT FIXTURE
	CUBICLE CURTAIN TRACK		RECESSED LIGHT FIXTURE
	ACCESS PANEL		WALL SCONCE LIGHT FIXTURE
	MECHANICAL SUPPLY GRILL		MECHANICAL LINEAR SUPPLY GRILL
	MECHANICAL RETURN GRILL		9'-0" AFF ACT CEILING ELEVATION AND FINISH

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN

REFLECTED CEILING KEYED NOTES	
	MODIFY CEILING AS REQUIRED. SEE PLANS FOR ADDITIONAL INFORMATION
	REINSTALL SALVAGED CEILING TILE, GRID AND ANY MECHANICAL ITEMS AS REQUIRED FROM CONSTRUCTION. SEE PLANS
	PROVIDE ACCESS PANELS PER SPECIFICATIONS SECTION 08 31 13

NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN

**1 SECOND FLOOR REFLECTED CEILING PLAN**  
1/8" = 1'-0"



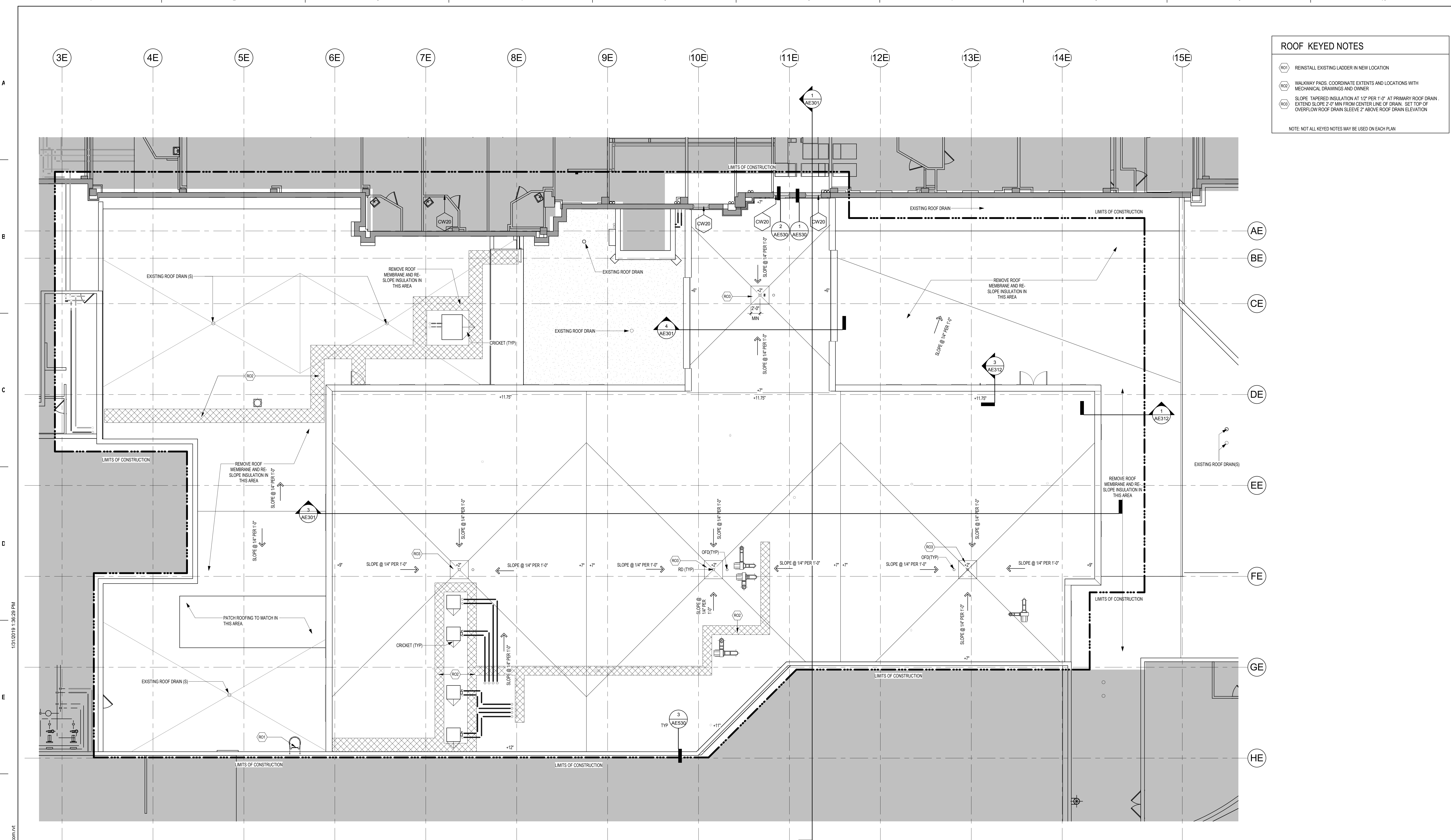
<b>CONSULTANT</b>  15 SUNNEN DR SUITE 104 SAINT LOUIS, MO 63143 PH: 314.645.1132 FAX: 314.645.1173 www.imegcorp.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Anderson Engineering of Minnesota, LLC 13605 1st Avenue North Suite 100 Plymouth, MN 55441 763-412-4000 (o) 763-412-4090 (f) www.ae-mn.com	<b>STAMP</b> I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of Minnesota. Signature: <i>Tom Olesak</i> Name: Tom Olesak Date: 01/10/2019 License Number: 18157	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>SECOND FLOOR REFLECTED CEILING PLAN</b>	Phase <b>CONSTRUCTION DOCUMENTS</b>	Project Title <b>CONSTRUCT LABORATORY ADDITION</b>	Project Number <b>438-440</b>
				Approved:	<b>FULLY SPRINKLERED</b>	Location <b>SIoux FALLS, SOUTH DAKOTA</b>	Building Number <b>5</b>
Revisions:	Date:	AE PROJECT NUMBER: 14567	U.S. Department of Veterans Affairs	Approved:	<b>FULLY SPRINKLERED</b>	Issue Date <b>01/11/2019</b>	Drawing Number <b>AC121</b>

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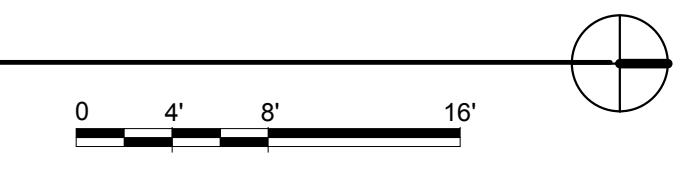
**ROOF KEYED NOTES**

- (RO1) REINSTALL EXISTING LADDER IN NEW LOCATION
- (RO2) WALKWAY PADS. COORDINATE EXTENTS AND LOCATIONS WITH MECHANICAL DRAWINGS AND OWNER
- (RO3) SLOPE TAPERED INSULATION AT 1/2" PER 1'-0" AT PRIMARY ROOF DRAIN. EXTEND SLOPE 2'-0" MIN FROM CENTER LINE OF DRAIN. SET TOP OF OVERFLOW ROOF DRAIN SLEEVE 2" ABOVE ROOF DRAIN ELEVATION

NOTE: NOT ALL KEYED NOTES MAY BE USED ON EACH PLAN



**1 ROOF PLAN**  
1/8" = 1'-0"



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 VA FORM 08 - 6231

35% SD REVIEW	03/14/2018
Revisions:	Date:

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AE PROJECT NUMBER: 14567

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Signature: *Tom Olesak*

Name: Tom Olesak  
Date: 01/10/2019  
License Number: 18157

Office of Construction and Facilities Management

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**ROOF PLAN**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

Checked

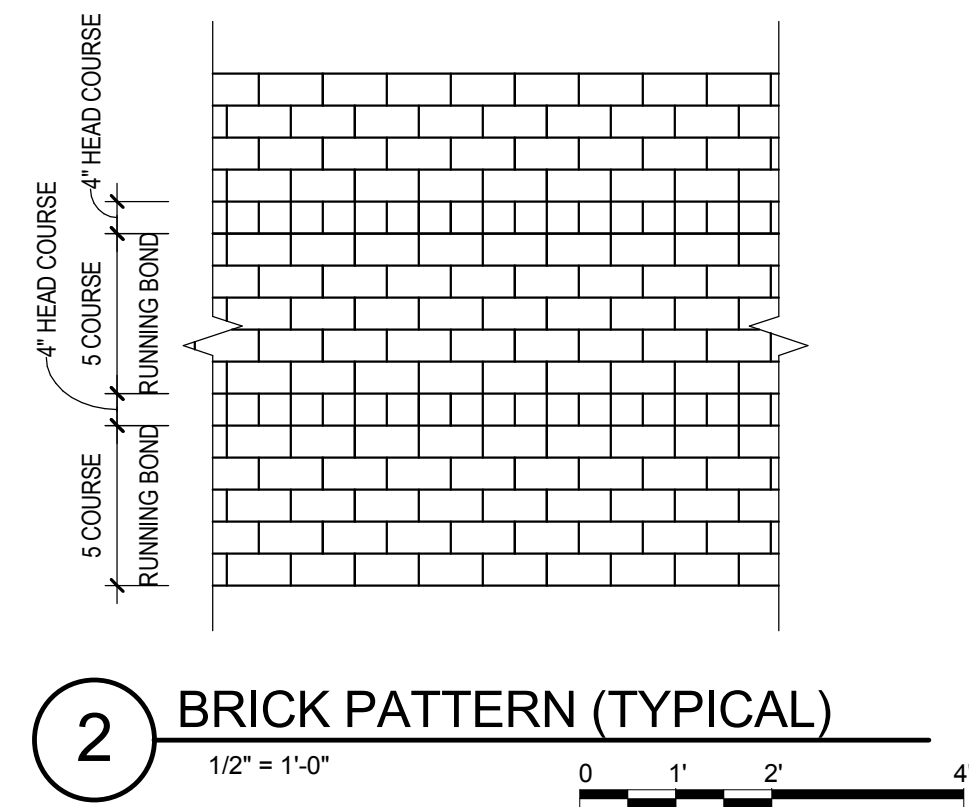
Drawn  
GJB/JMT

Project Number  
438-440

Building Number  
5

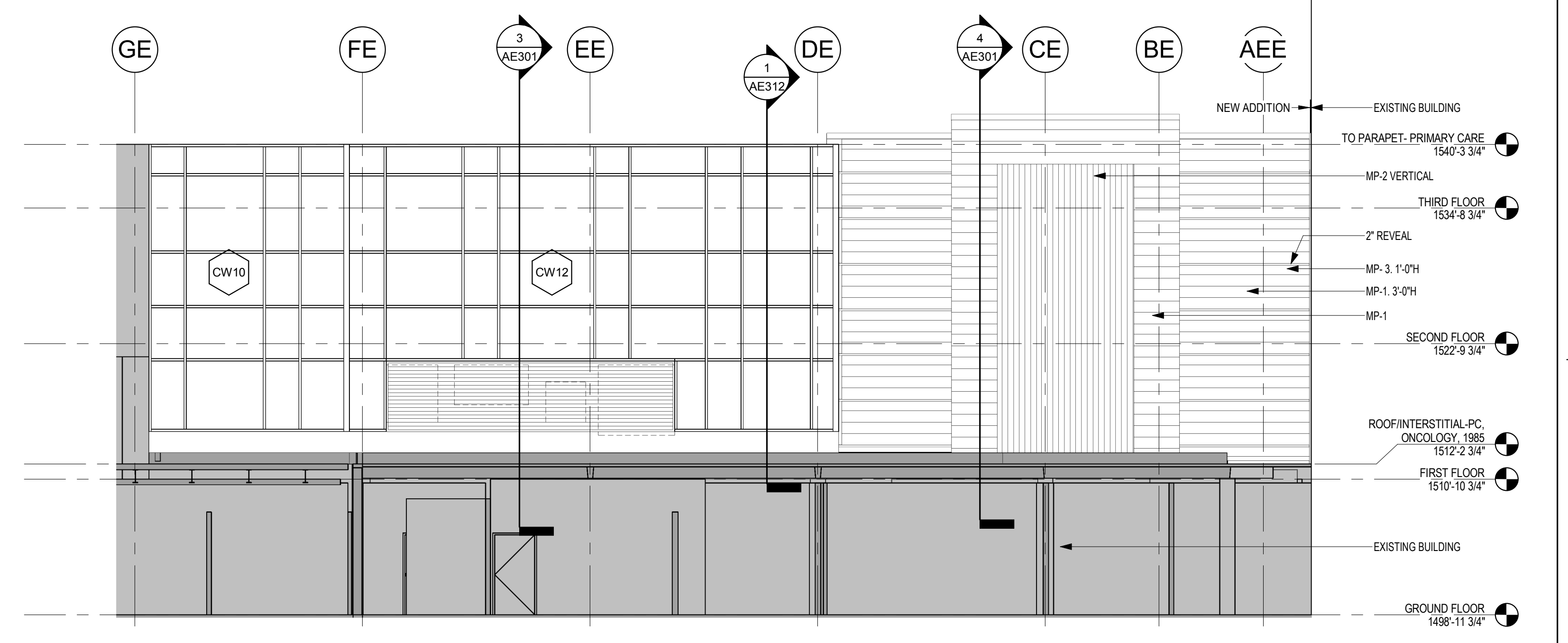
Drawing Number  
**AE150**



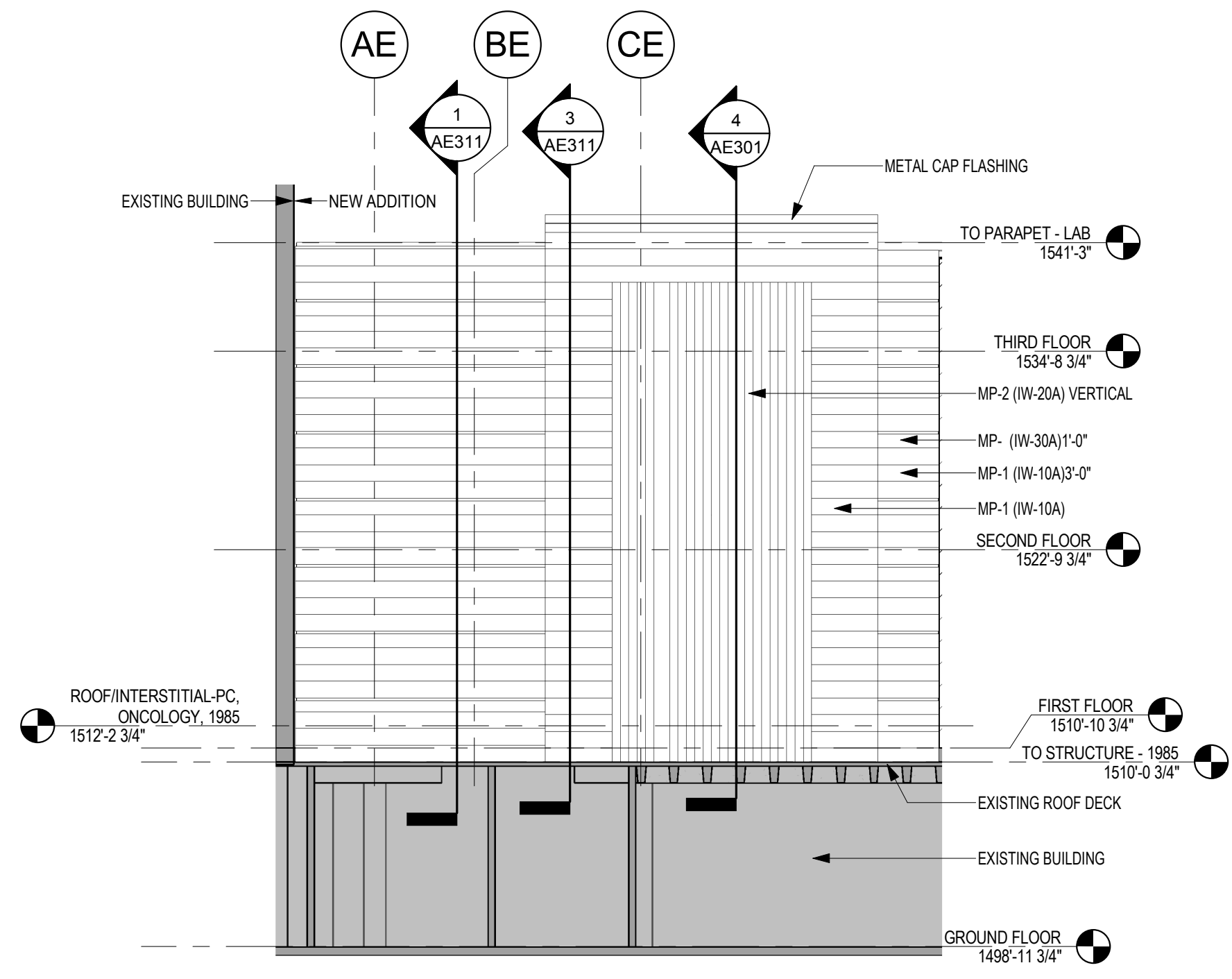


EXTERIOR ELEVATION MATERIALS LEGEND			
	EXISTING BUILDING		
	BRICK		
	GLASS SPANDELR PANEL		

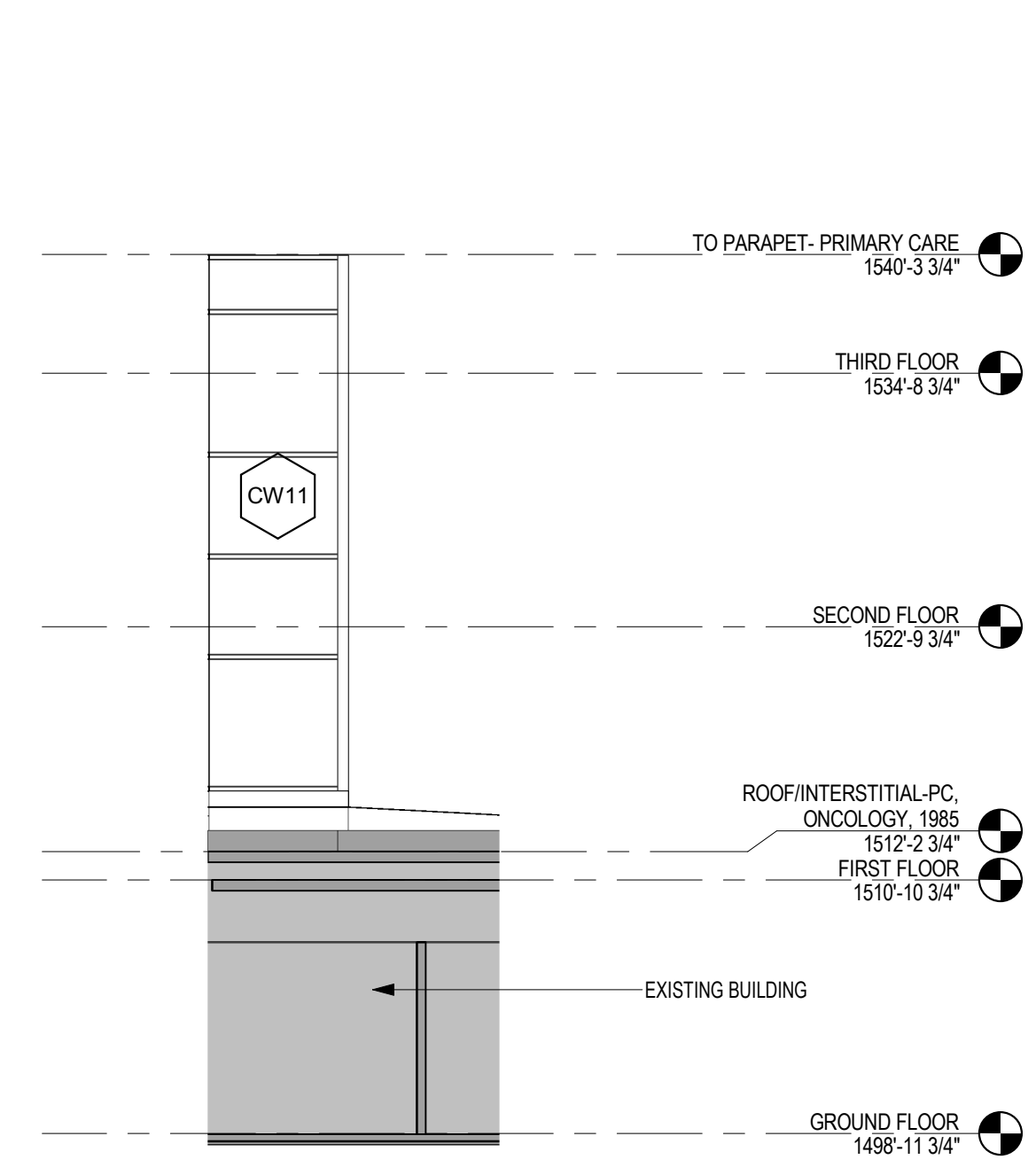
SEE 2 / AE201 FOR BRICK PATTERN



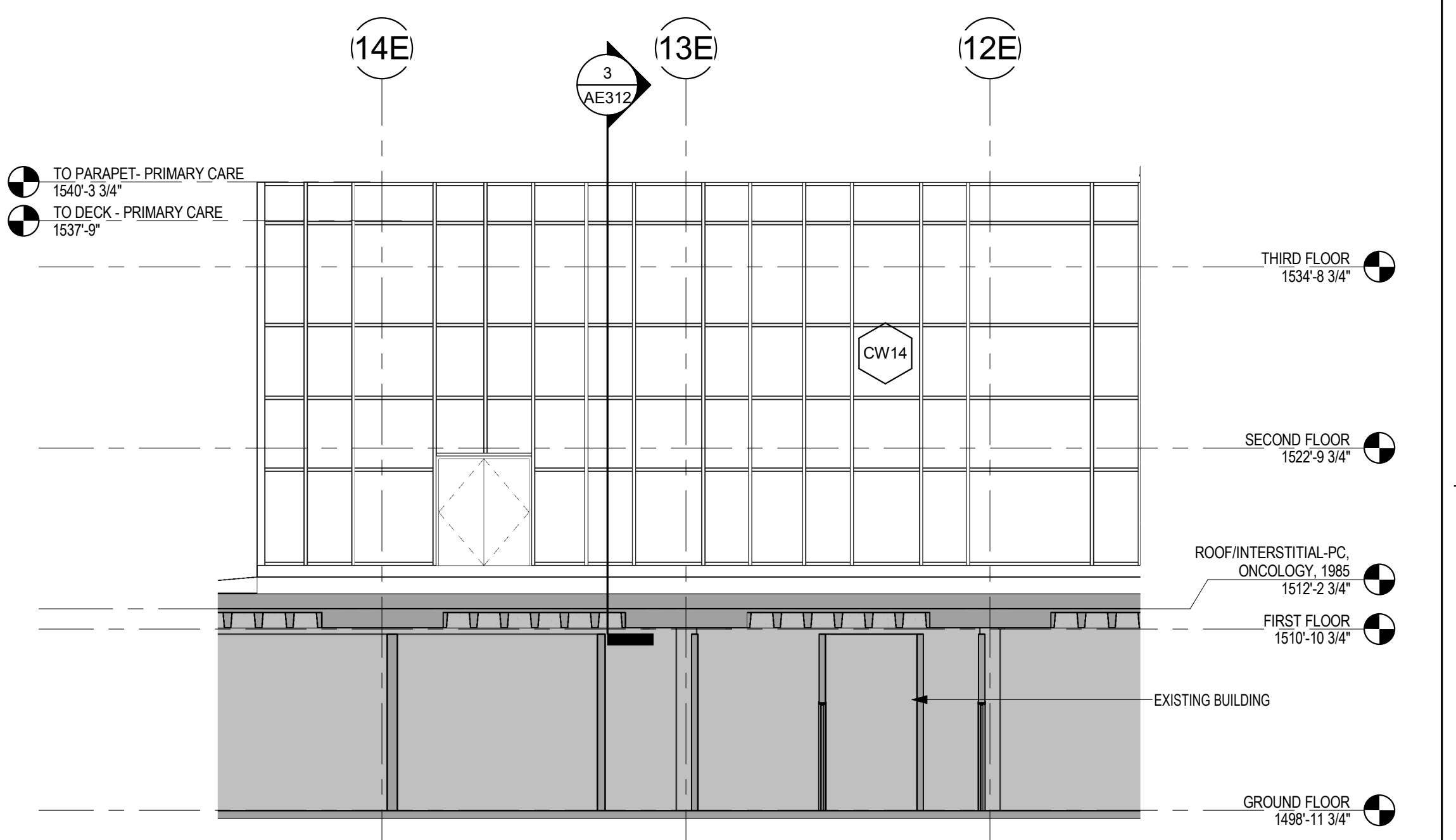
1 EXTERIOR ELEVATION - NORTH  
1/8" = 1'-0"



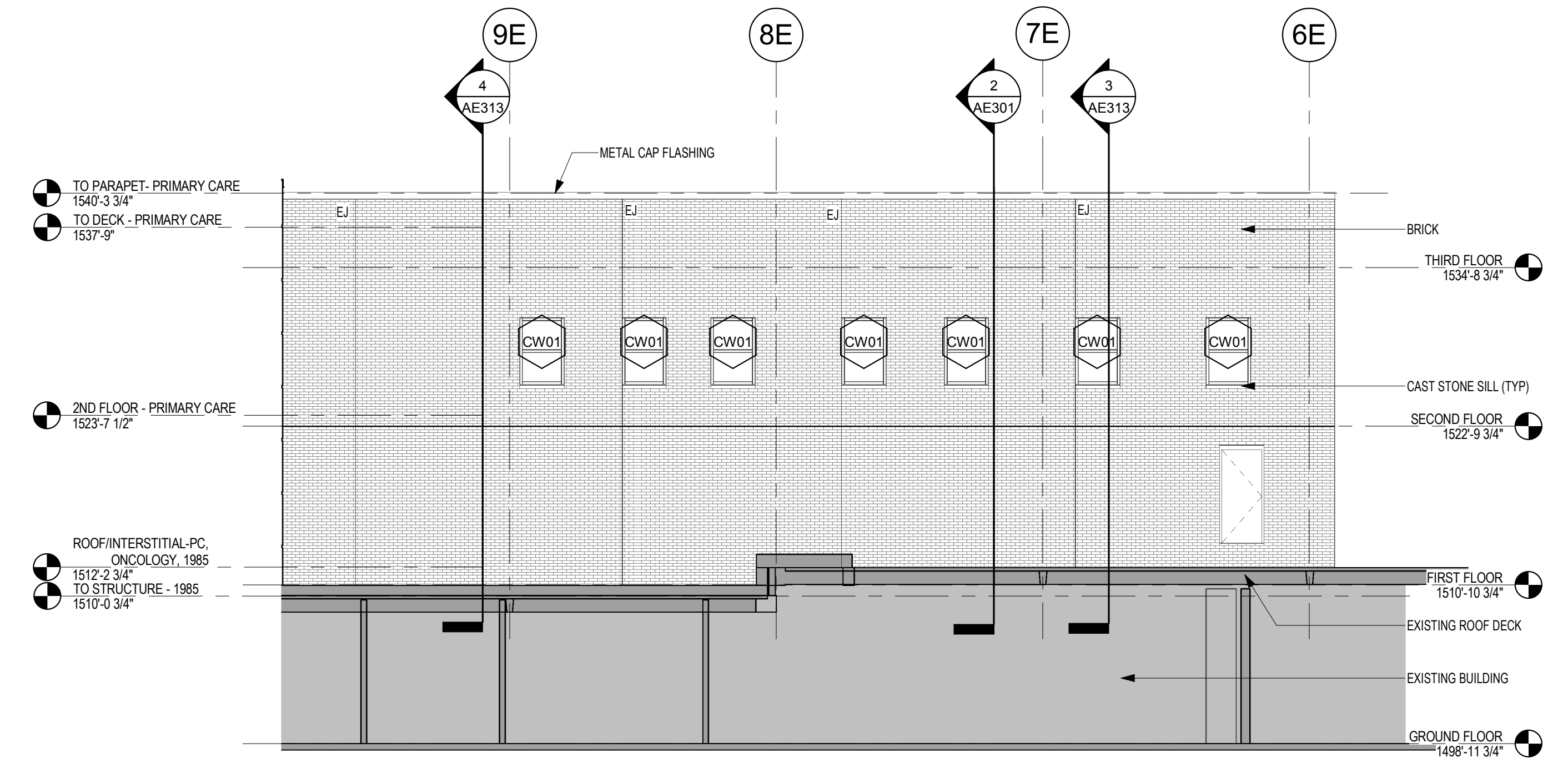
5 EXTERIOR ELEVATION - PARTIAL SOUTH WEST  
1/8" = 1'-0"



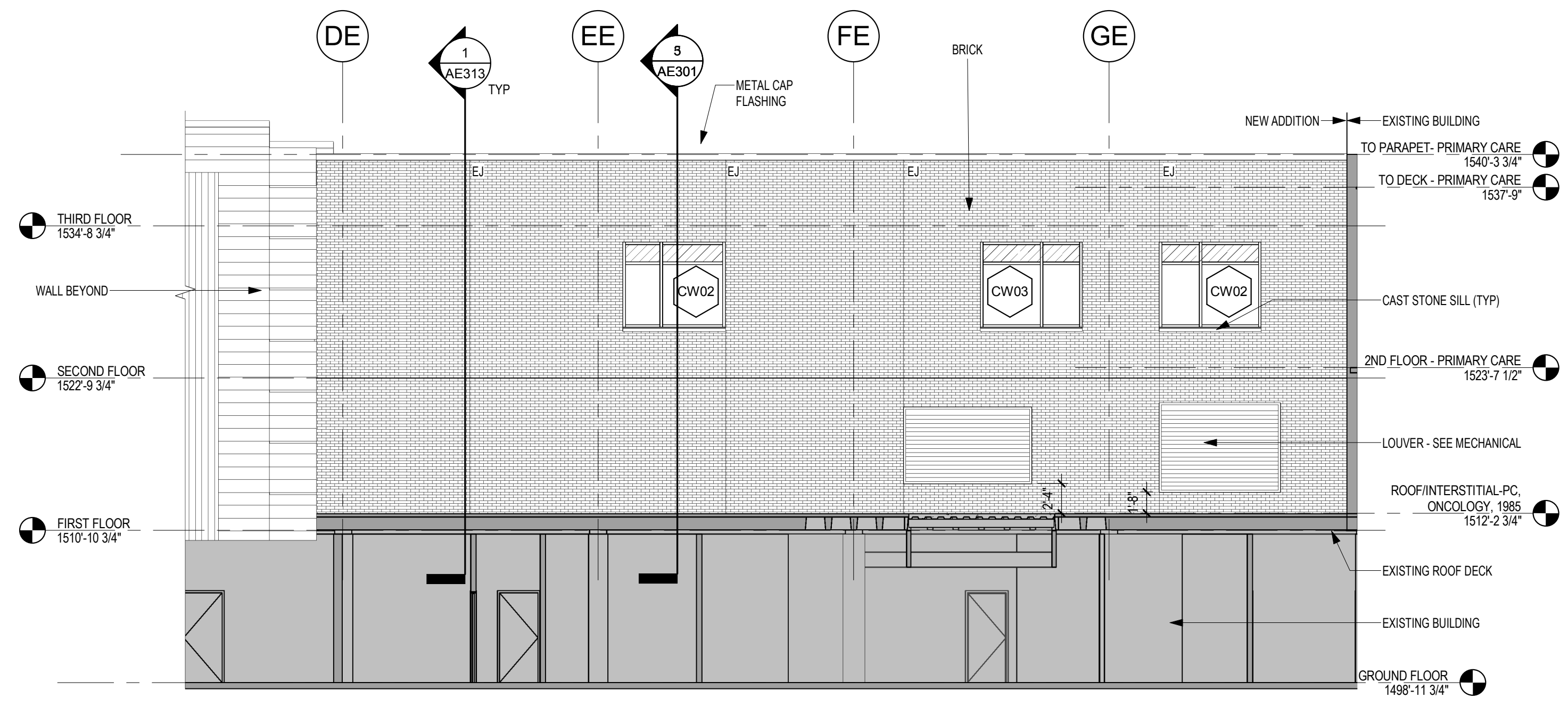
4 EXTERIOR ELEVATION - EAST  
1/8" = 1'-0"



3 EXTERIOR ELEVATION - NORTH WEST  
1/8" = 1'-0"



7 EXTERIOR ELEVATION - SOUTH WEST  
1/8" = 1'-0"



6 EXTERIOR ELEVATION - PARTIAL SOUTH WEST  
1/8" = 1'-0"

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Office of  
Construction  
and Facilities  
Management

**VA** U.S. Department  
of Veterans  
Affairs

Drawing Title  
**EXTERIOR ELEVATIONS**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

FULLY SPRINKLERED

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

Checked

Drawn  
GJB

Project Number  
**438-440**

Building Number  
**5**

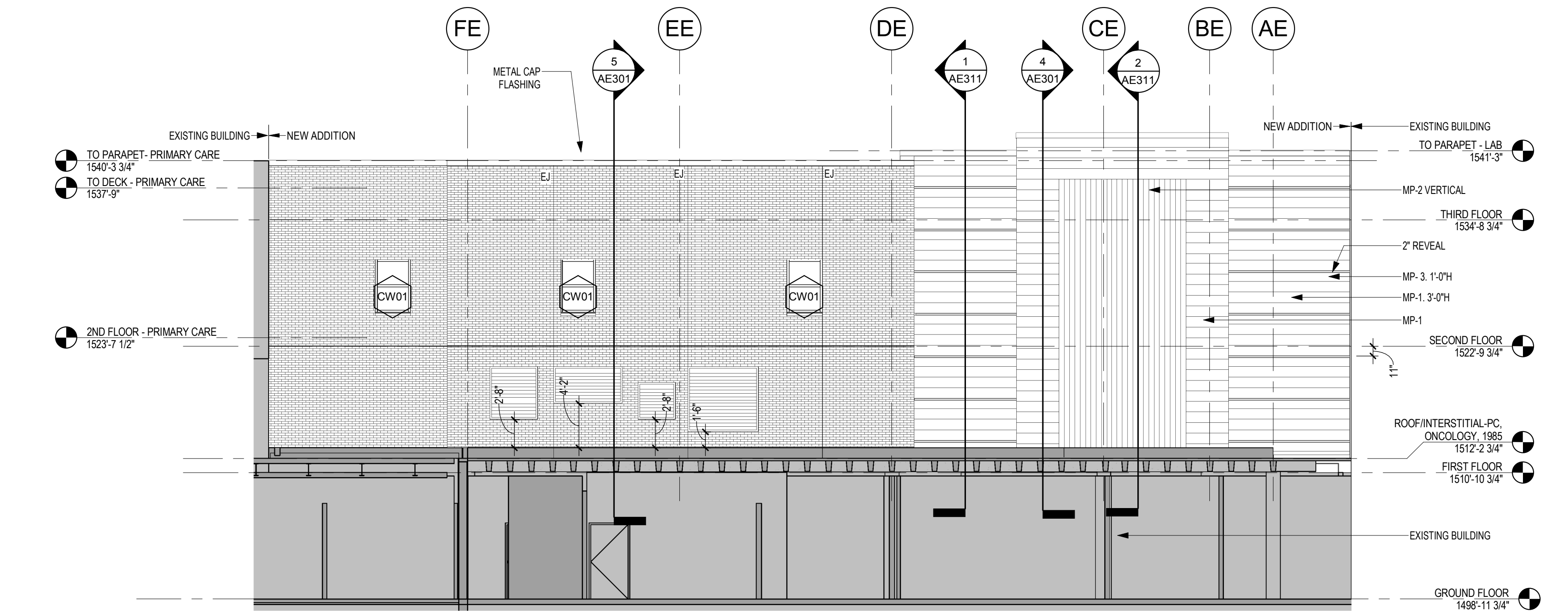
Drawing Number  
**AE201**

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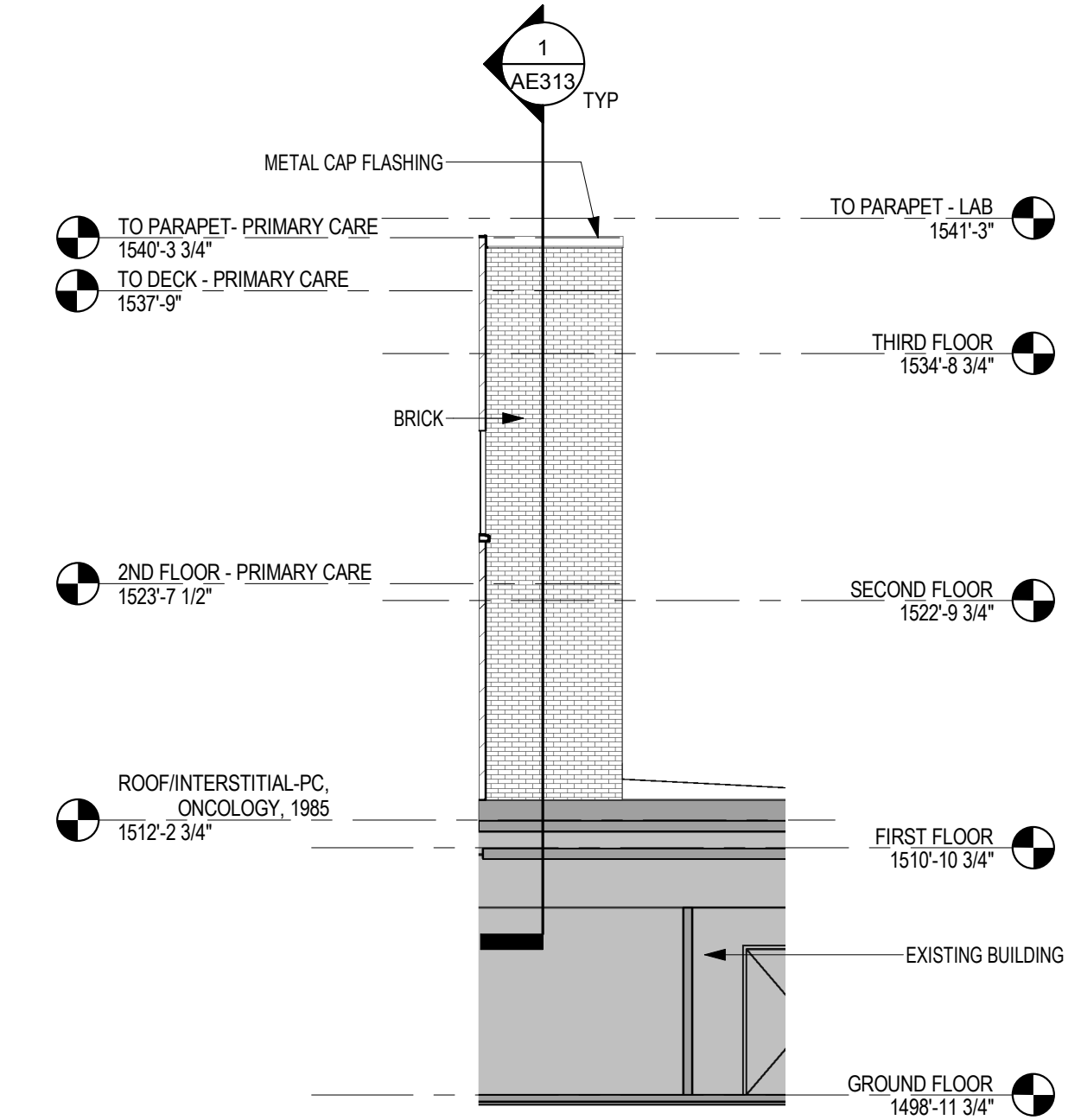
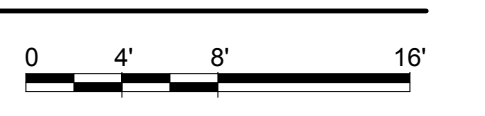
**EXTERIOR ELEVATION MATERIALS LEGEND**

	EXISTING BUILDING		
	BRICK		
	GLASS SPANDREL PANEL		

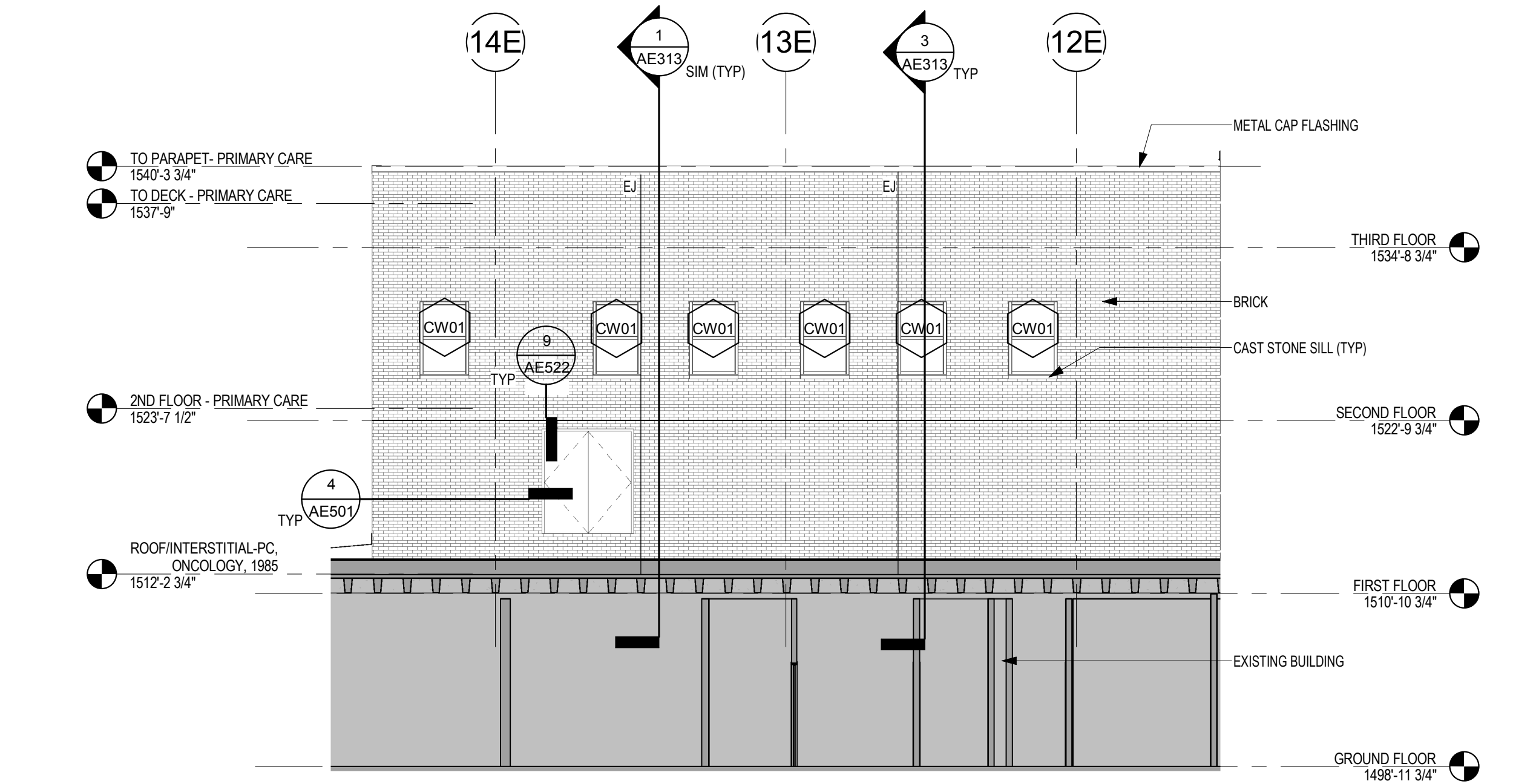
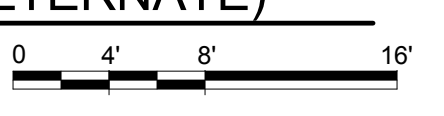
SEE 2 / AE201 FOR BRICK PATTERN



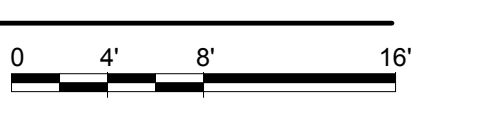
**1 EXTERIOR ELEVATION - NORTH (DEDUCT ALTERNATE)**  
1/8" = 1'-0"



**3 EXTERIOR ELEVATION - EAST (DEDUCT ALTERNATE)**  
1/8" = 1'-0"



**2 EXTERIOR ELEVATION - NORTH WEST (DEDUCT ALTERNATE)**  
1/8" = 1'-0"



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Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title  
**EXTERIOR ELEVATIONS (DEDUCT ALTERNATE)**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

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Project Title  
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Location  
**SIOUX FALLS, SOUTH DAKOTA**

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Project Number  
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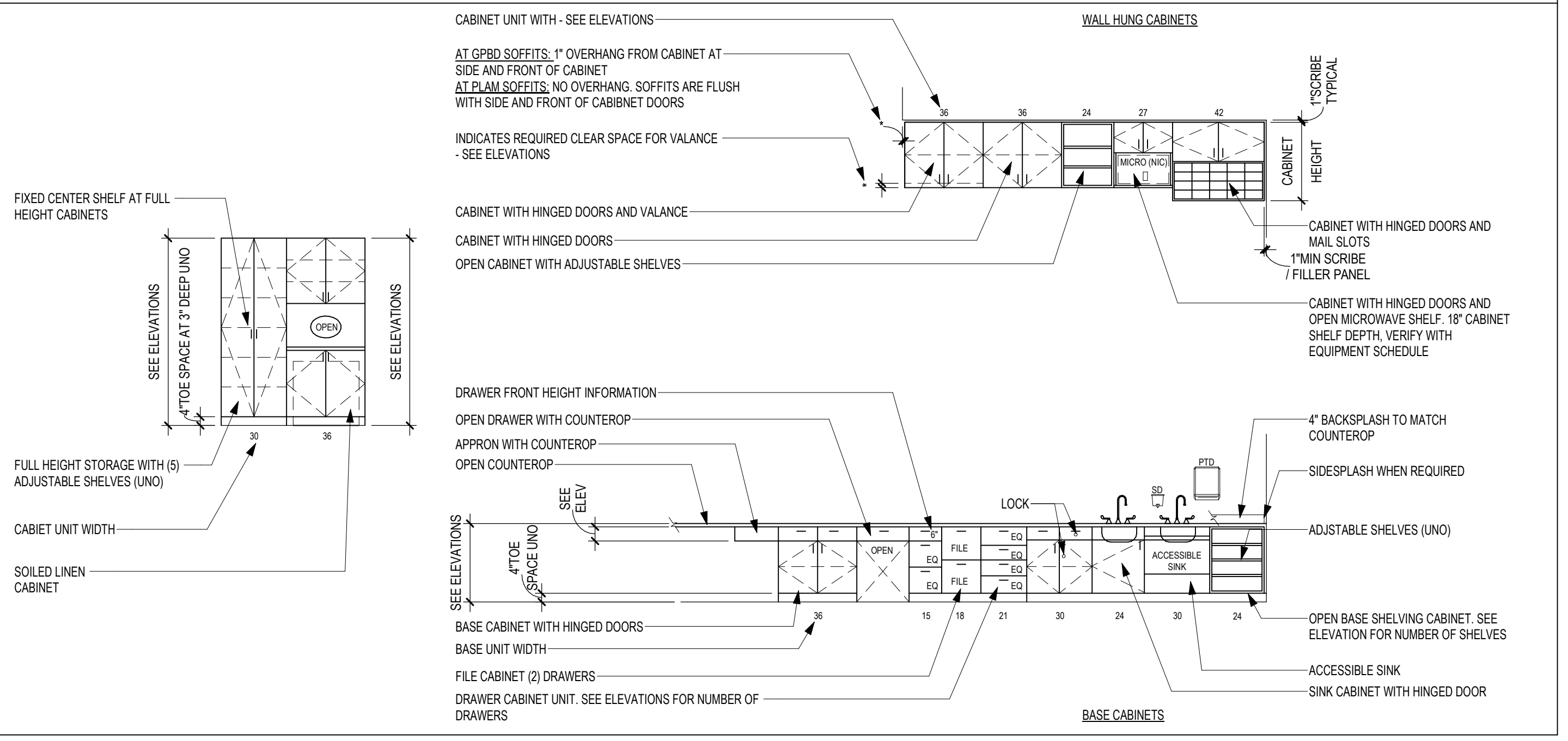
Building Number  
**5**

Drawing Number  
**AE202**

**CASEWORK GENERAL NOTES**

- FULL HEIGHT STORAGE CABINETS (UNO)
  - SHALL BE 2'-0" DEEP
  - 2'-0" MAX DOOR WIDTH
  - WARDROBE CABINETS TO BE 2'-0" DEEP
  - PROVIDE (5) FIVE ADJ PLAM SHELVES
- BASE AND WALL CABINETS (UNO)
  - WALL CABINETS 1'-0" DEEP CLEAR INSIDE MINIMUM
  - BASE CABINETS 2'-0" DEEP
  - (1) ADJ PLAM SHELF AT 2'-0" HIGH WALL CABINETS
  - (2) ADJ PLAM SHELVES AT 2'-6" HIGH WALL CABINETS, AND
  - (3) ADJ PLAM SHELVES AT 3'-0" HIGH WALL CABINETS
- SEE INTERIOR ELEVATIONS FOR PLAM FILLERS AND SLOPED TOPS. WHERE FILLER STRIPS ARE REQUIRED, THEY SHALL BE EQUAL IN SIZE AT BOTH ENDS OF CASEWORK (UNO).
- PROVIDE LOCKS ON INDIVIDUAL DOORS AND DRAWERS WHERE INDICATED.
- PROVIDE CONTINUOUS SEALANT AT TOP OF BACKSPLASH/SIDESPLASHES.
- PROVIDE 1" THICK SHELVES WHERE CABINETS ARE OVER 3'-0" WIDE.
- PROVIDE GROMMETS AT WORKSTATIONS, INCLUDING NURSE STATIONS, RECEPTION DESKS AND OTHER WORK COUNTERS. CUT IN FIELD-PROVIDE ONE PER ELECTRICAL DEVICE BELOW COUNTER-COORDINATE LOCATIONS WITH OWNER. COLOR TO BE SELECTED BY ARCHITECT. SEE SPECIFICATION FOR GROMMET TYPES AND SIZES.
- PROVIDE A 2" RADIUS EDGE (IN PLAN) AT ALL OUTSIDE, EXPOSED COUNTERTOP CORNERS (UNO). ALL PLAM COUNTERTOPS SHALL HAVE A 1 1/4" THICK PLAM SQUARE EDGE NOSING (UNO)
- ALL COUNTERTOPS ARE 2'-1" DEEP (UNO)
- PROVIDE PLYWOOD BACKING AT ALL SS COUNTERTOPS.
- COUNTERTOP SUPPORT BRACKETS ARE PROVIDED BY THE CASEWORK SUPPLIER. PROVIDE WALL BLOCKING AT EACH SUPPORT.
- COORDINATE LOCATION OF ALL UNDERCOUNTER SUPPORT WITH OWNER FURNISHED/OWNER INSTALLED EQUIPMENT.
- NO EXPOSED FASTENERS ON CASEWORK (UNO)
- ALL EXPOSED METAL CLIP ANGLES AND BRACKETS TO BE PAINTED TO MATCH CASEWORK.
- ALL EXPOSED AND SEMI-EXPOSED SURFACES OF CASEWORK, SHELVING, BASE, FULL HEIGHT AND UPPER WALL CABINETS, AND FINISHED END PANELS ARE PLAM (UNO)
- FIELD VERIFY SPACE AVAILABLE AT CABINET LOCATIONS PRIOR TO CASEWORK FABRICATION.
- RETURN BACKSPLASH AT SIDEWALLS (UNO).
- TUCK WALL COVERING BEHIND ALL BACKSPLASHES.
- ALL CABINETS TO RECEIVE BASE SCHEDULED FOR ROOM (UNO).
- COORDINATE ALL SWITCHES, UNDER-CABINET LIGHT FIXTURES AND UNDERCOUNTER RECEPTACLES WITH THE ELECTRICAL CONTRACTOR.
- PROVIDE HANGING FILE EDGE/HARDWARE WHERE FILE DRAWERS ARE INDICATED
- PROVIDE A 1/4" GAP BETWEEN BOTTOM EDGE OF COUNTERTOP AND TOP EDGE OF DOOR FRONTS/DOORS OF CABINETS
- REFER TO FINISH PLAN GENERAL NOTES FOR CASEWORK FINISHES (UNO)
- BASE AS SCHEDULED (UNO)
- PLAM COUNTERTOPS TO RECEIVE 3mm FLAT PVC EDGE (UNO).
- NUMBERS SHOWN BELOW BASE CABINETS AND ABOVE WALL CABINETS REFER TO NOMINAL WIDTH DIMENSIONS, IN INCHES. FOR THAT CABINET, SEE REFERENCE DETAILS FOR ADDITIONAL INFORMATION.

**CASEWORK ELEVATION REFERENCE DIAGRAM**



**4 ELEVATION - RECEPTION DESK NORTH**  
1/4" = 1'-0"

**3 ELEVATION - RECEPTION DESK EAST**  
1/4" = 1'-0"

**2 ELEVATION - LOBBY 201 - EAST**  
1/4" = 1'-0"

**1 ELEVATION - ELEVATOR LOBBY 246 - EAST**  
1/4" = 1'-0"

**8 ELEVATION - STERIL-PREP 2088C - SOUTH**  
1/4" = 1'-0"

**7 ELEVATION - LABORATORY 2070 HAND WASH SINK (TYP)**  
1/4" = 1'-0"

**6 ELEVATION - DROP OFF COUNTER @ HALWAY 2060 - EAST**  
1/4" = 1'-0"

**5 ELEVATION - COAT RACK @ HALWAY 2060 - SOUTH**  
1/4" = 1'-0"

**13 ELEVATION - LABORATORY 2070 HAND WASH - TYP**  
1/4" = 1'-0"

**12 ELEVATION - STAFF LOUNGE 2077 - WEST**  
1/4" = 1'-0"

**11 ELEVATION - STAFF LOUNGE 2077 - NORTH**  
1/4" = 1'-0"

**10 ELEVATION - STAFF LOUNGE 2077 - EAST**  
1/4" = 1'-0"

**9 ELEVATION - STERIL-PREP 2088C - WEST**  
1/4" = 1'-0"

**16 ELEVATION - TUG DOCKING STATION / LAB 2070 - EAST**  
1/4" = 1'-0"

**15 ELEVATION - SLIDES/BLOCKS 2088A - NORTH**  
1/4" = 1'-0"

**14 ELEVATION - FLURO MICROSCOPE 2085A - EAST**  
1/4" = 1'-0"

**20 ELEVATION - BLOOD DRAW DOOR (TYP)**  
1/4" = 1'-0"

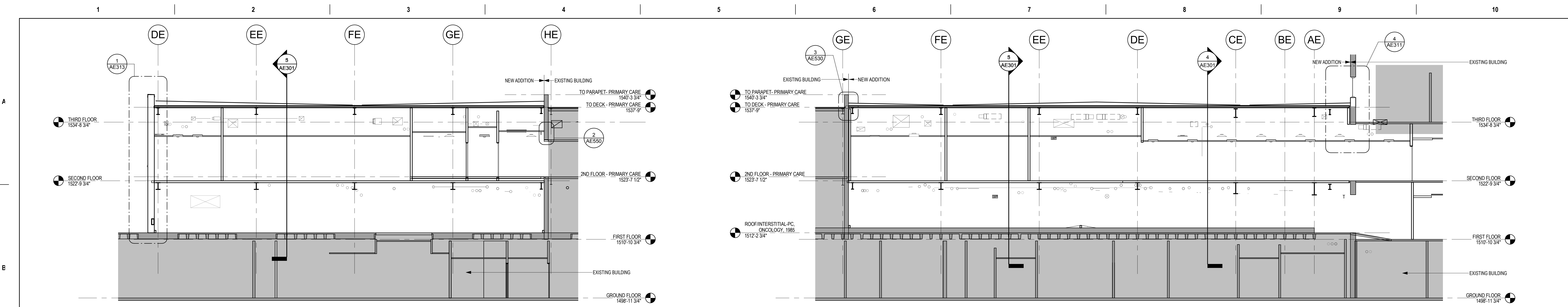
**19 ELEVATION - FLOURO MICROSCOPE 2084A - WEST**  
1/4" = 1'-0"

**18 ELEVATION - CARTS 2095 - NORTH**  
1/4" = 1'-0"

**17 ELEVATION - CART ALCOVE @ LABORATORY 2070 - WEST**  
1/4" = 1'-0"

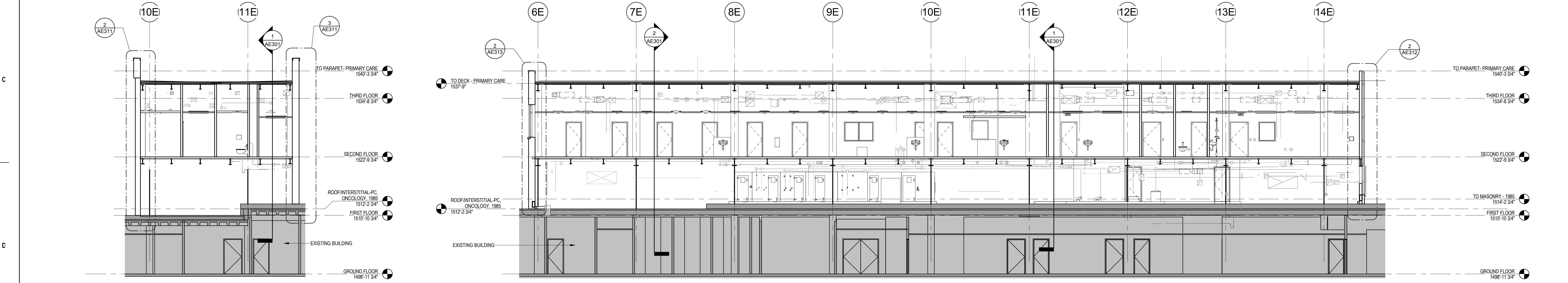
	<p>CONSULTANT</p> <p>15 SUNNEN DR SUITE 104 SAINT LOUIS, MO 63143</p> <p>PH: 314.645.1132 FAX: 314.645.1173 www.imegcorp.com</p>	<p>ARCHITECT/ENGINEER OF RECORD</p> <p>Anderson Engineering of Minnesota, LLC 13605 1st Avenue North Suite 100 Plymouth, MN 55441 763-412-4000 (o) 763-412-4090 (f) www.ae-mn.com</p>	<p>STAMP</p> <p>I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.</p> <p>Signature: <i>[Signature]</i></p> <p>Name: Tom Olesak Date: 01/10/2019 License Number: 18157</p>	<p>Office of Construction and Facilities Management</p> <p>VA U.S. Department of Veterans Affairs</p>	<p>Drawing Title <b>INTERIOR ELEVATIONS</b></p> <p>Approved: _____</p>	<p>Phase <b>CONSTRUCTION DOCUMENTS</b></p>	<p>Project Title <b>CONSTRUCT LABORATORY ADDITION</b></p>	<p>Project Number <b>438-440</b></p> <p>Building Number <b>5</b></p> <p>Drawing Number <b>AE212</b></p>								
<p>Revisions:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">No.</th> <th style="width: 50%;">Description</th> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>	No.	Description							Date: _____							
No.	Description															

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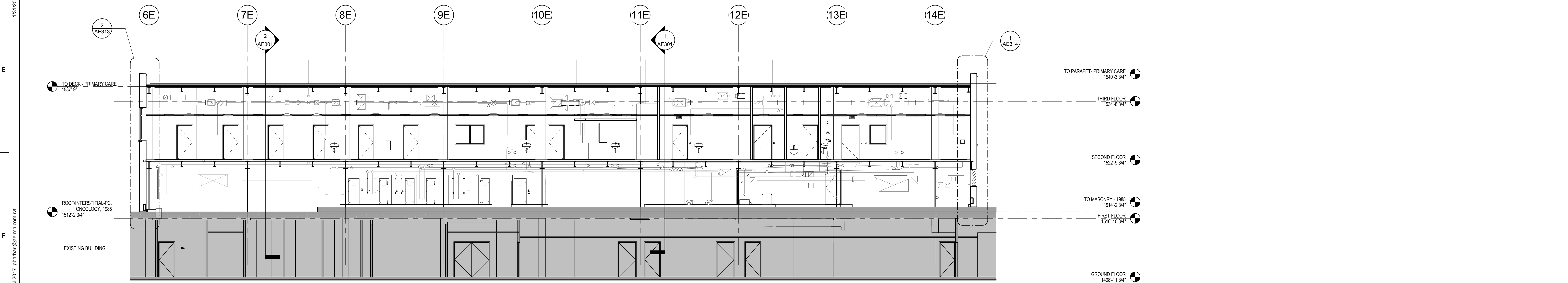
**2** BUILDING SECTION - LAB & PRIMARY CARE - EAST/WEST  
1/8" = 1'-0"

**1** BUILDING SECTION - LINK & SPECIALITY MED - EAST/WEST  
1/8" = 1'-0"



**4** BUILDING SECTION - LINK - NORTH/SOUTH  
1/8" = 1'-0"

**3** BUILDING SECTION - LAB - NORTH/SOUTH  
1/8" = 1'-0"



**5** BUILDING SECTION - LAB - NORTH/SOUTH (DEDUCT ALTERNATE)  
1/8" = 1'-0"

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**VA** U.S. Department  
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Drawing Title  
**BUILDING SECTIONS**

Approved: \_\_\_\_\_

Phase  
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Project Title  
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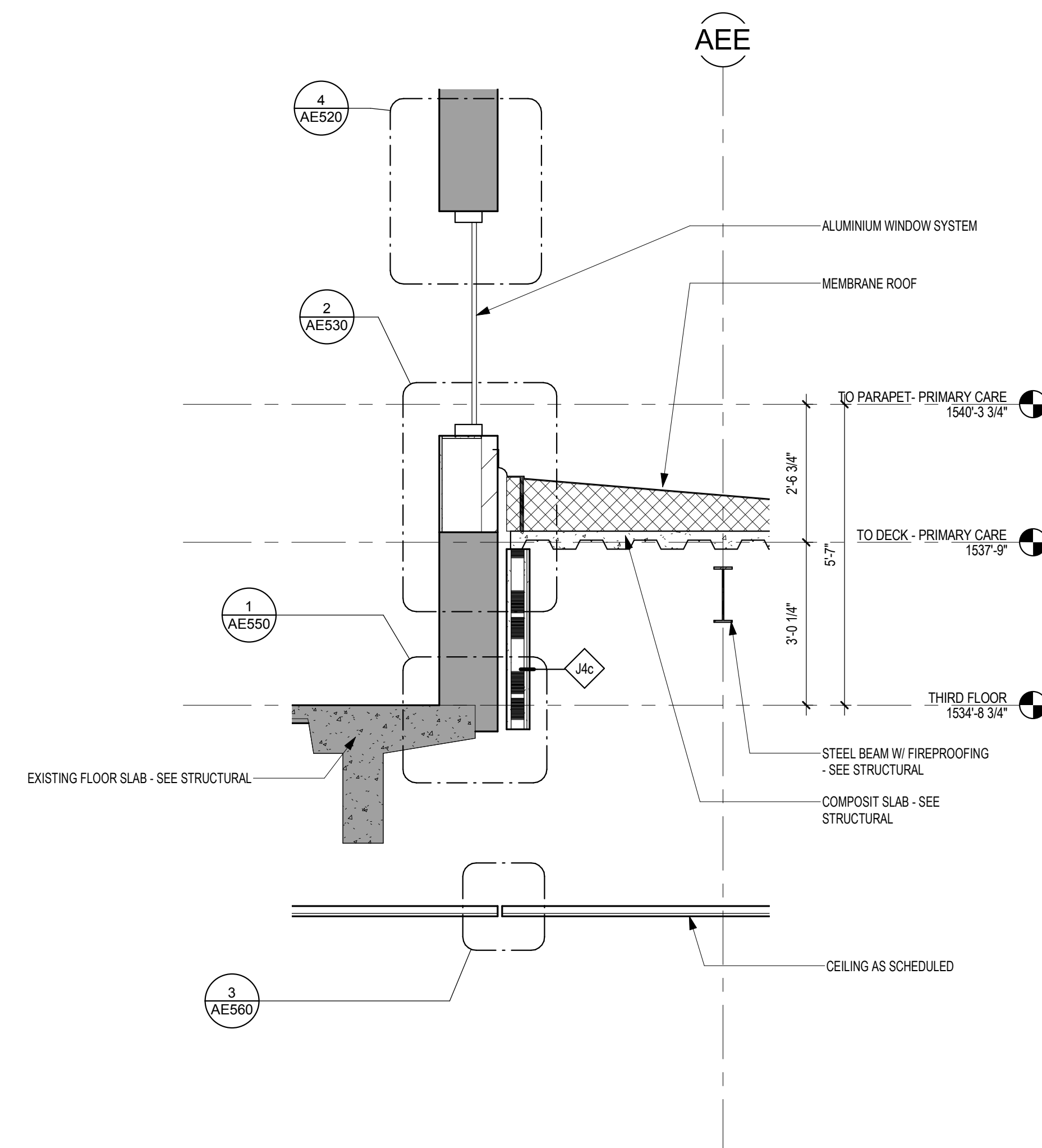
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GJB/JMT

Project Number  
**438-440**

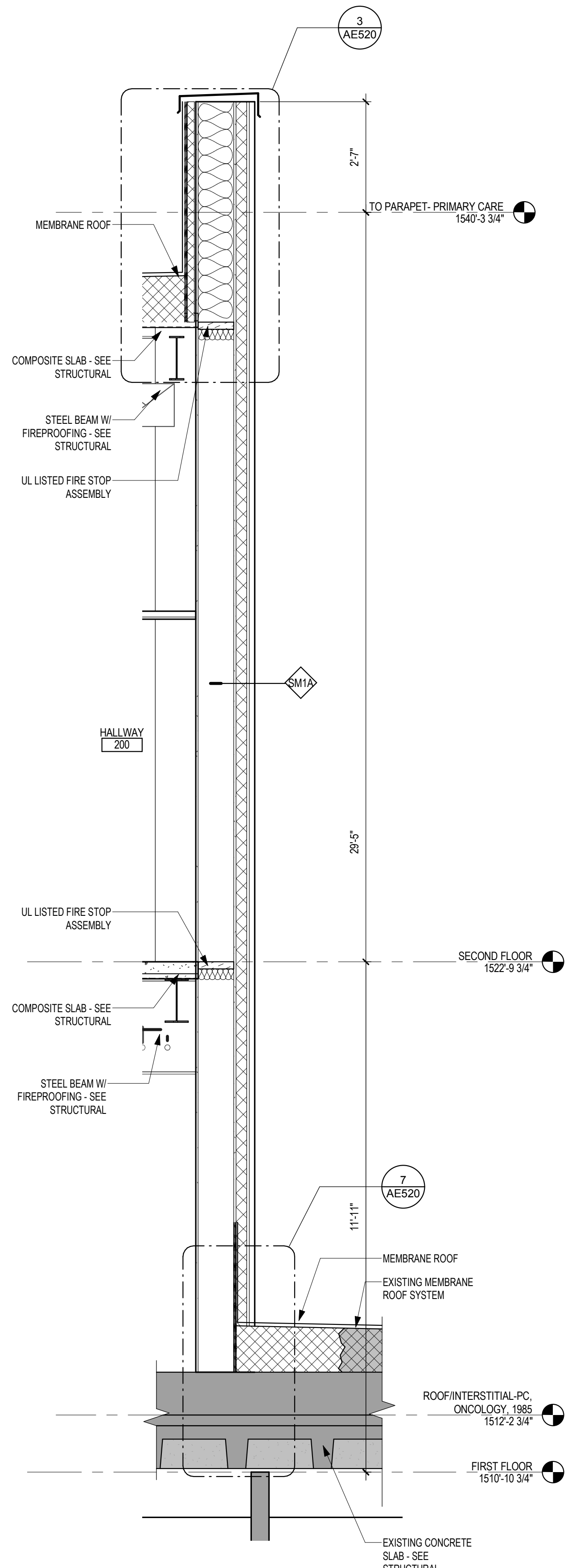
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**5**

Drawing Number  
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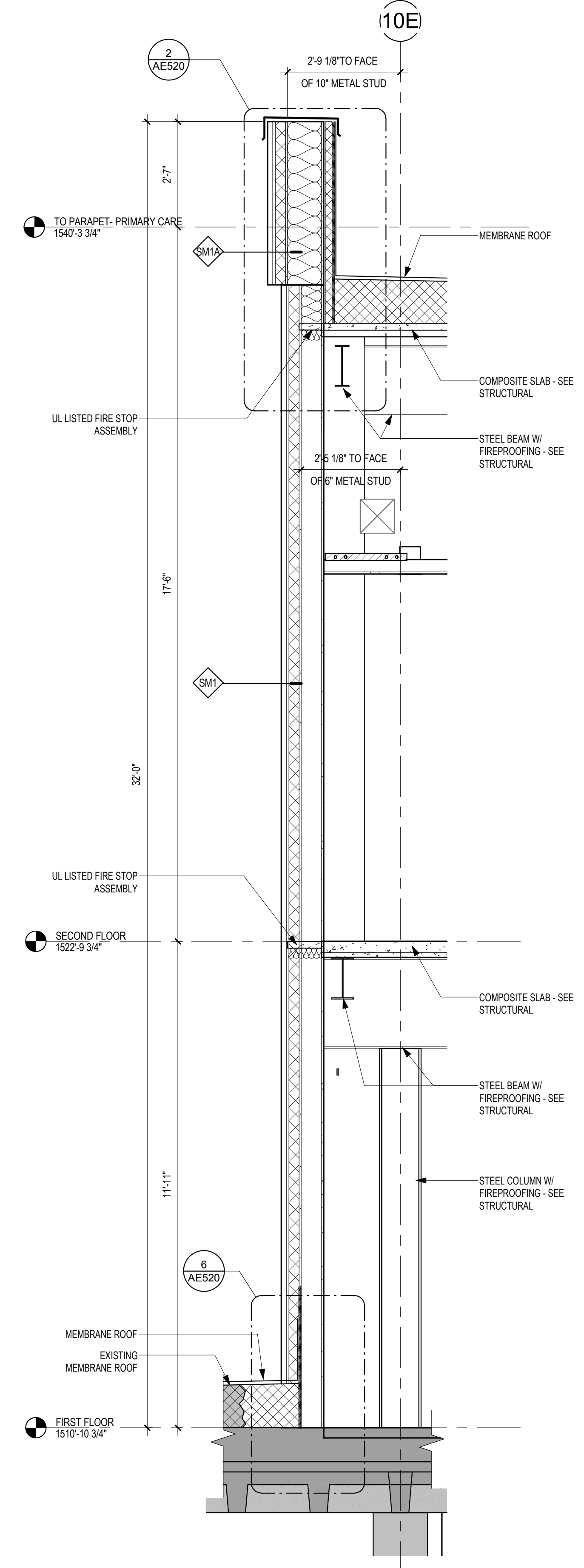
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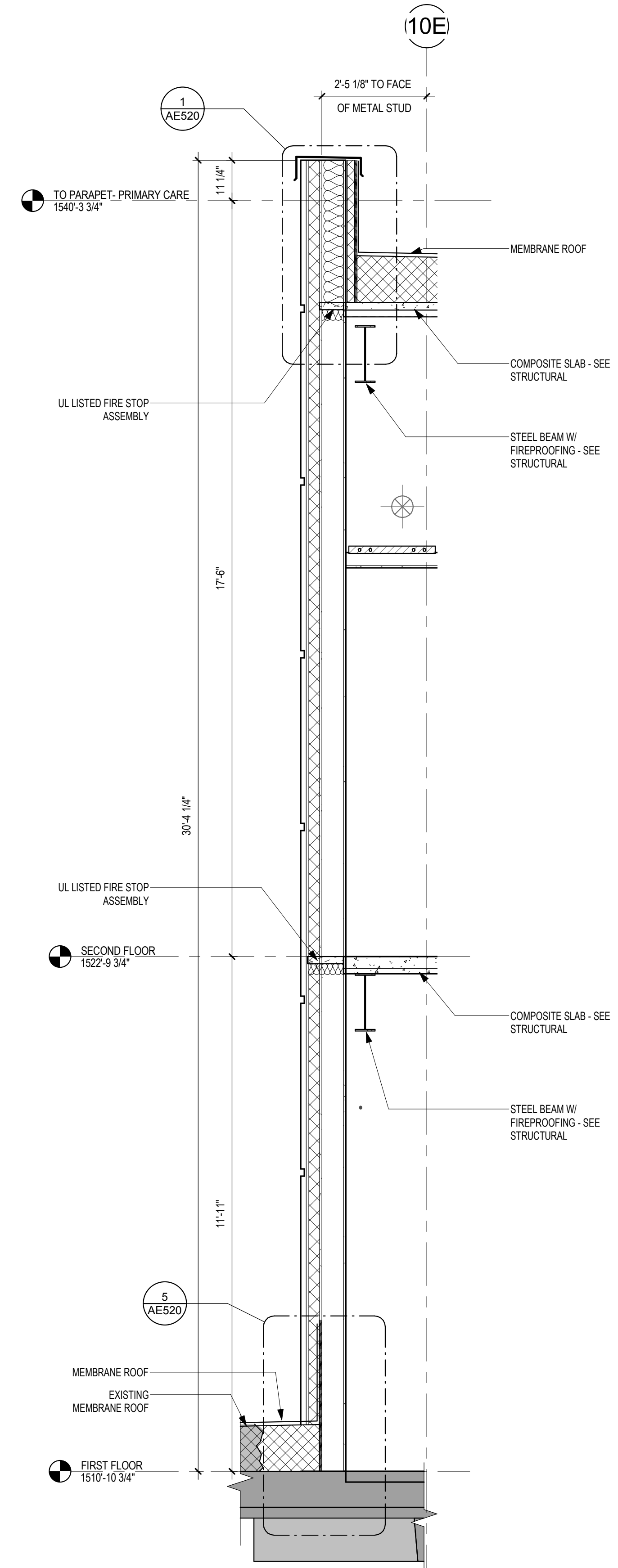
4 WALL SECTION - WINDOW INFILL @ EXISTING BRICK  
1/2" = 1'-0"



3 WALL SECTION - METAL PANEL @ LINK WALL SM1A  
1/2" = 1'-0"



2 WALL SECTION - LINK - SOUTH ACCENT HEAD  
1/2" = 1'-0"



1 WALL SECTION - METAL PANEL @ LINK (TYP)  
1/2" = 1'-0"

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VA U.S. Department of Veterans Affairs

Drawing Title  
**WALL SECTIONS**

Approved: \_\_\_\_\_

Phase  
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Drawing Number  
**AE311**

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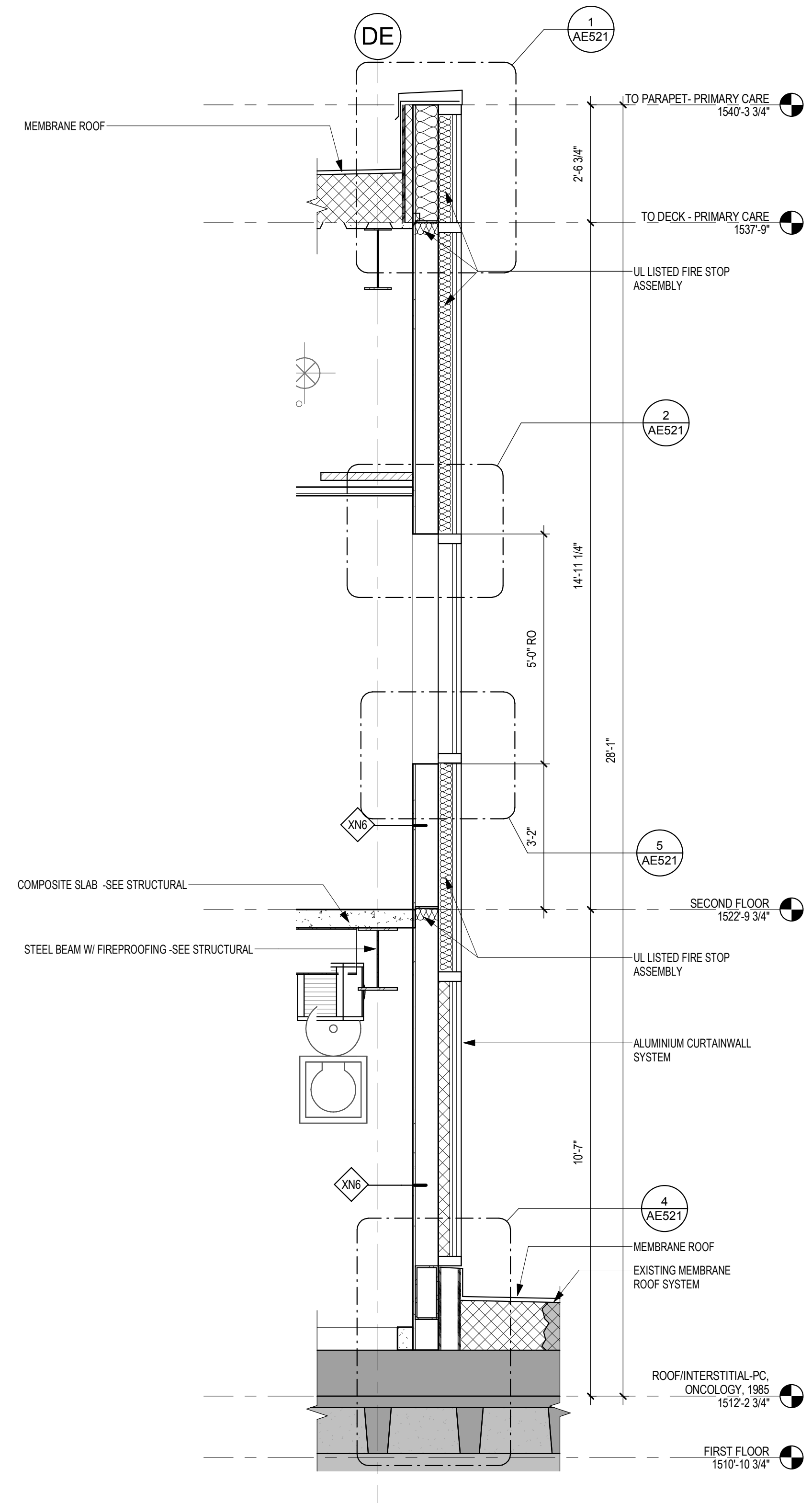
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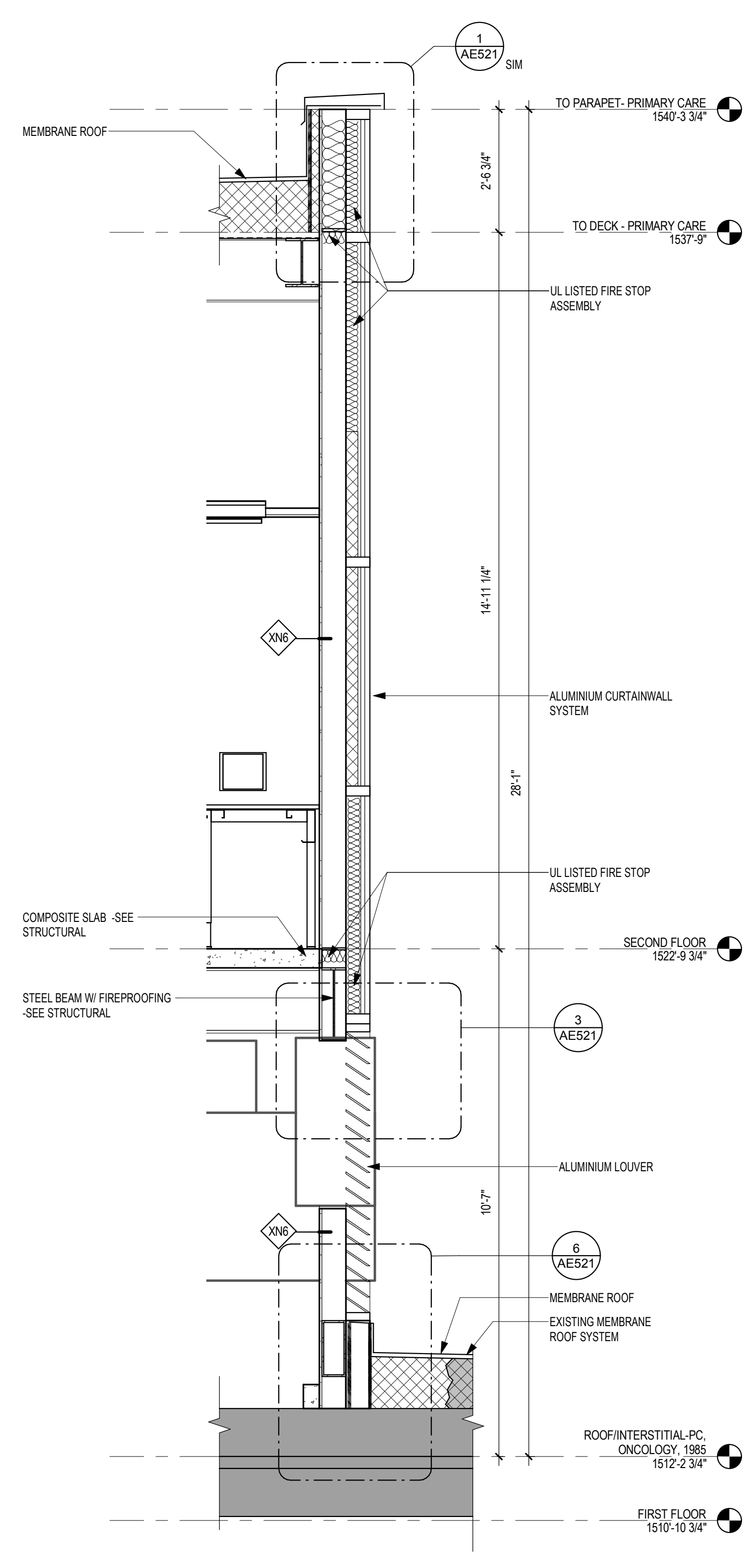
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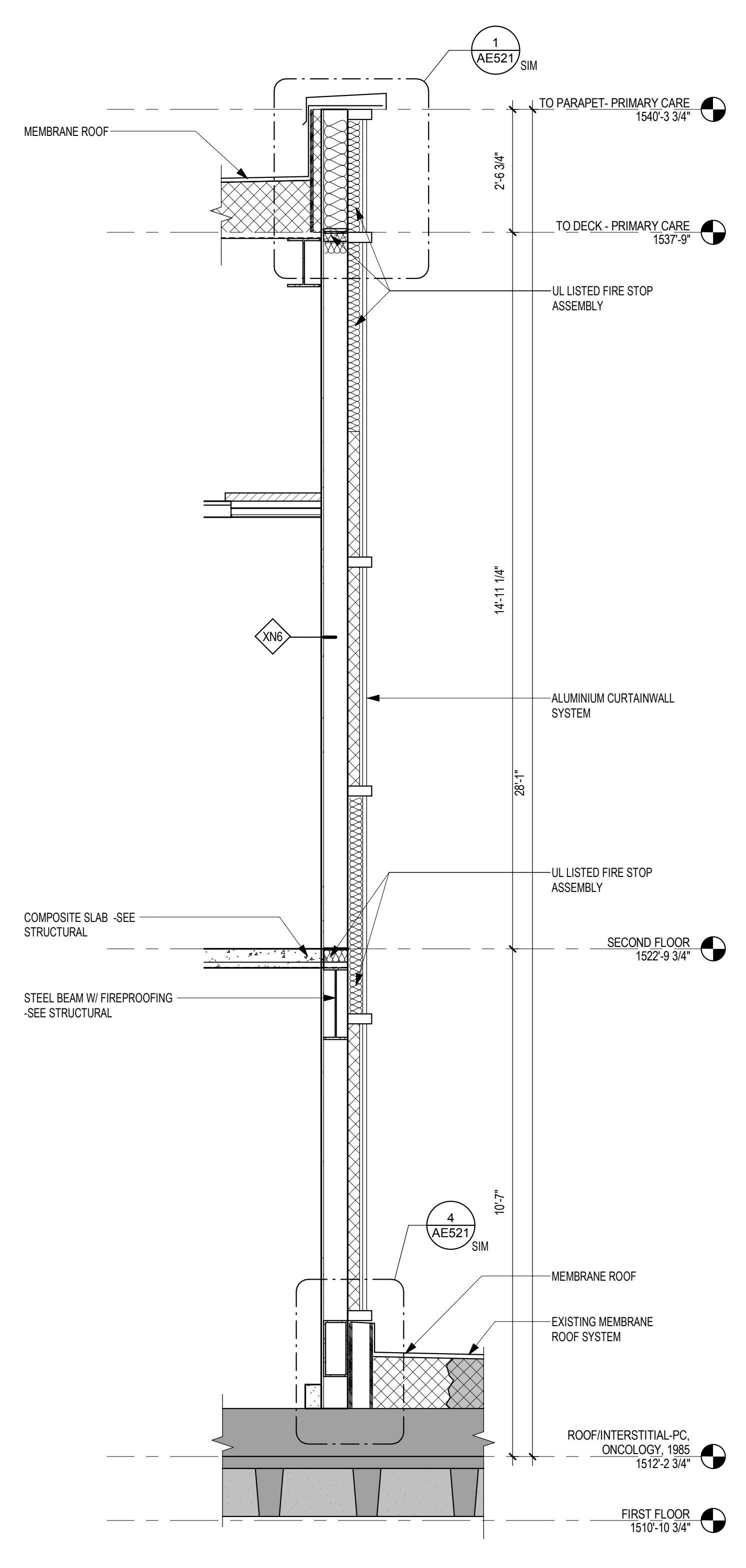
F



3 WALL SECTION - CURTIAN WALL @ OFFICE  
1/2" = 1'-0"



2 WALL SECTION - CURTIAN WALL & LOUVER  
1/2" = 1'-0"



1 WALL SECTION - CURTIAN WALL (TYP)  
1/2" = 1'-0"

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Date: 01/10/2019  
License Number: 18157

Office of  
Construction  
and Facilities  
Management

VA U.S. Department  
of Veterans  
Affairs

Drawing Title  
**WALL SECTIONS**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

Checked  
\_\_\_\_\_

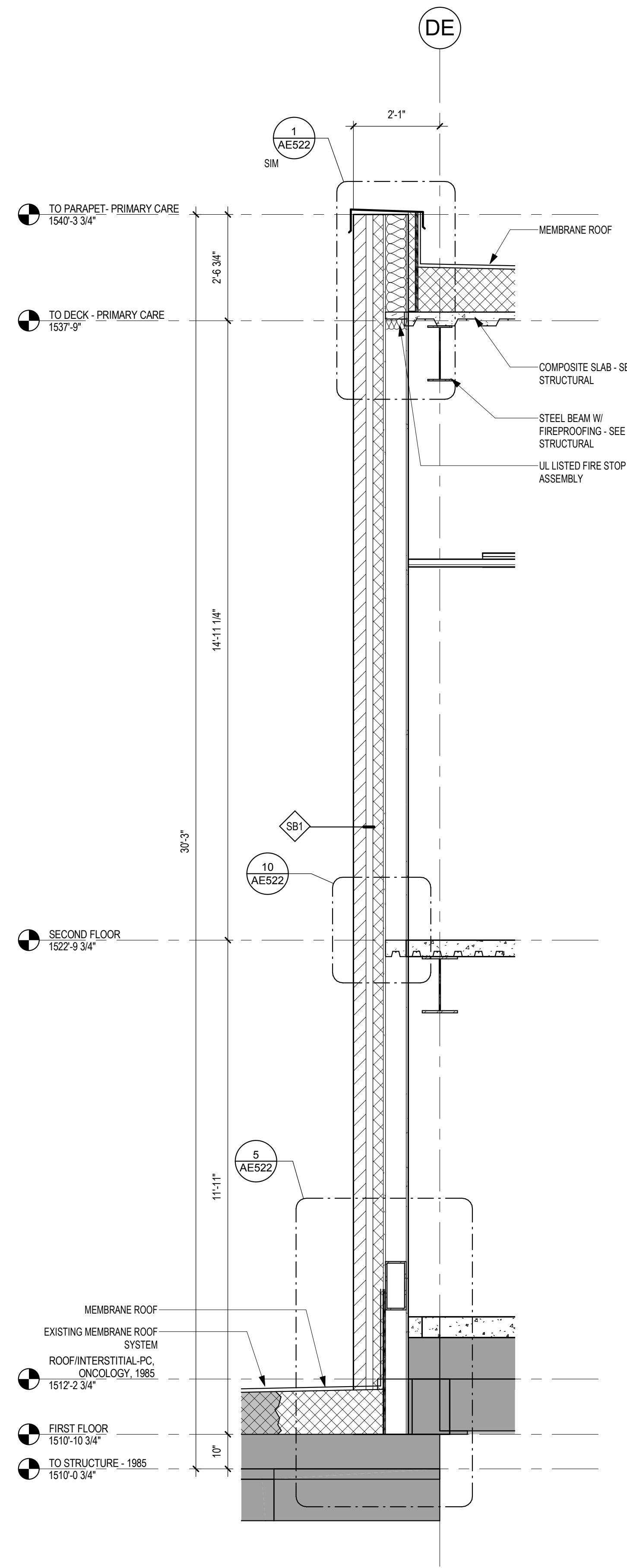
Drawn  
GJB

Project Number  
**438-440**

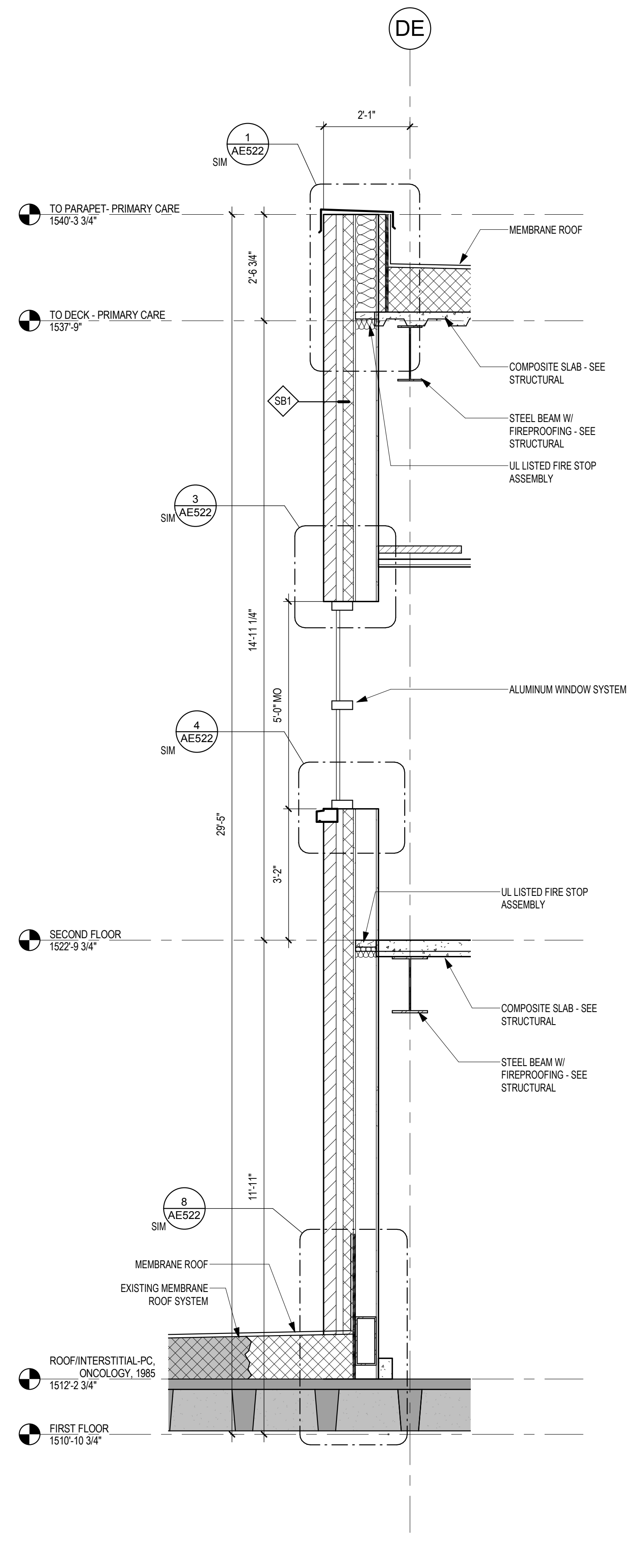
Building Number  
**5**

Drawing Number  
**AE312**

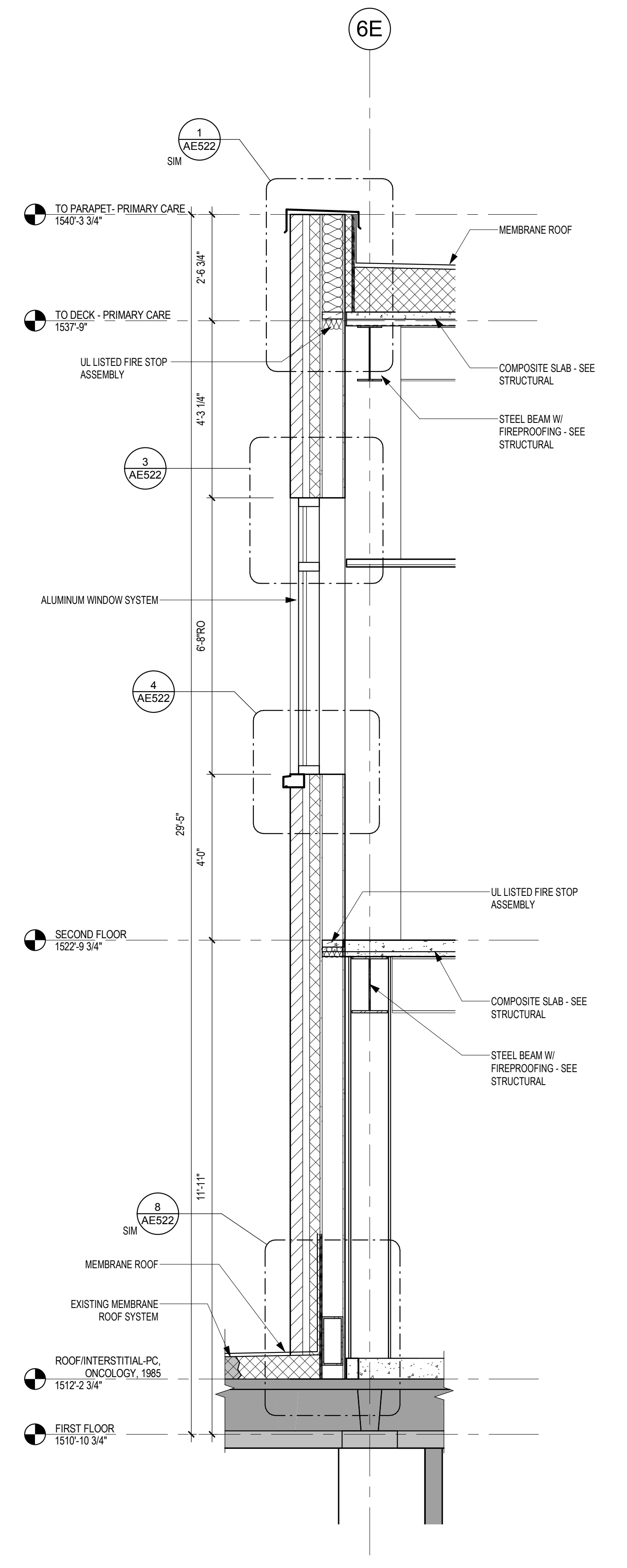
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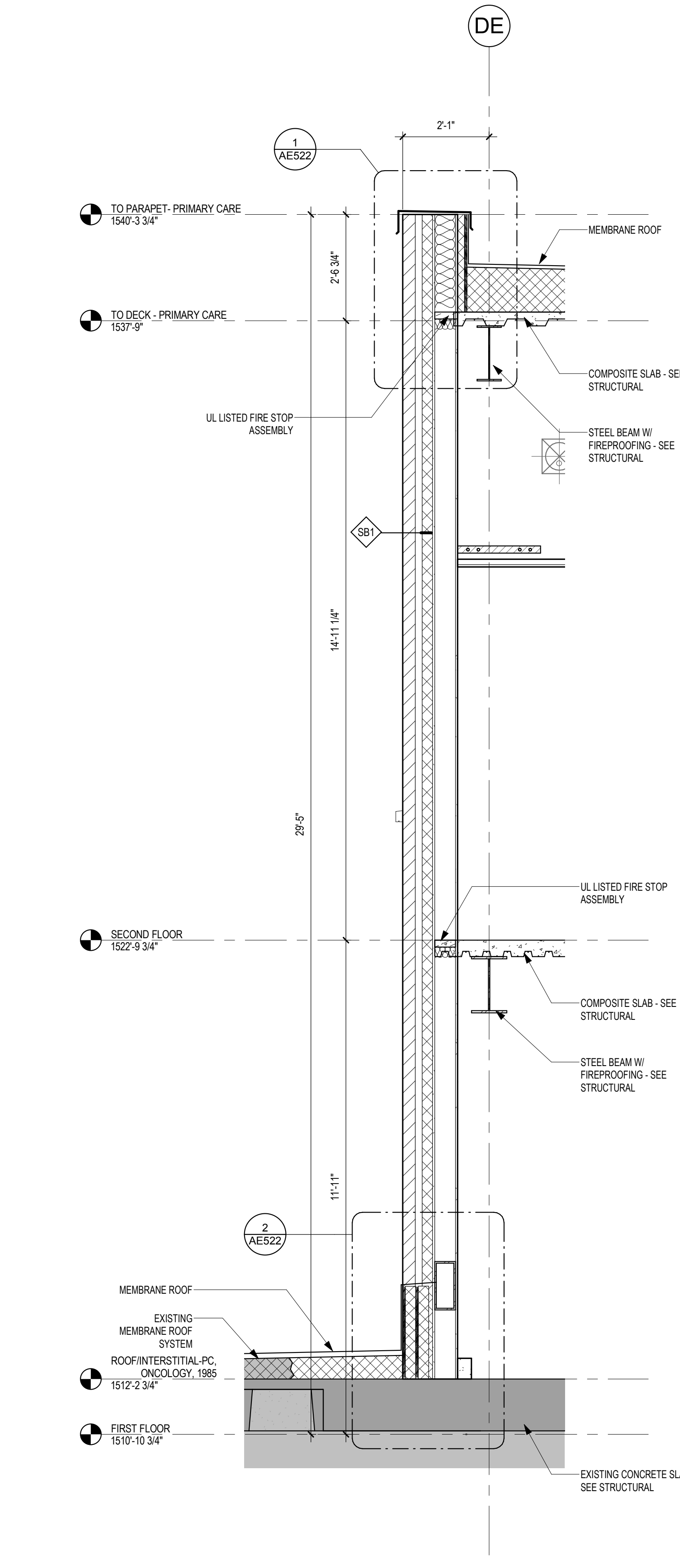
**4** WALL SECTION - BRICK @ LOW ROOF  
1/2" = 1'-0"



**3** WALL SECTION - BRICK @ OFFICE WINDOW  
1/2" = 1'-0"



**2** WALL SECTION - BRICK @ SPANDREL WINDOW  
1/2" = 1'-0"



**1** WALL SECTION - BRICK @ HIGH ROOF  
1/2" = 1'-0"

Revisions:	Date:

**CONSULTANT**

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AE PROJECT NUMBER: 14567

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Signature: *Tom Olesak*

Name: Tom Olesak  
Date: 01/10/2019  
License Number: 18157

Office of  
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and Facilities  
Management

**VA** U.S. Department  
of Veterans  
Affairs

Drawing Title  
**WALL SECTIONS**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

Checked  
\_\_\_\_\_

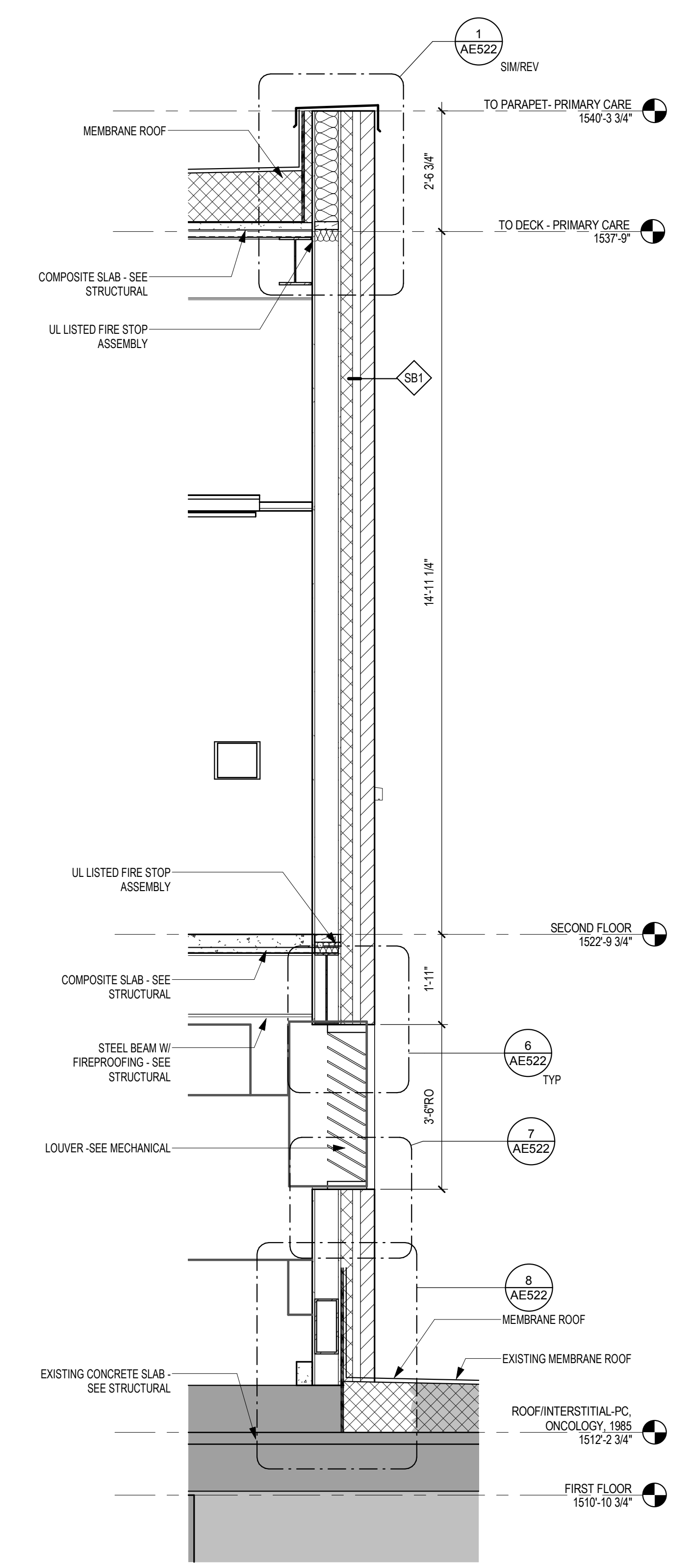
Drawn  
GJB/JMT

Project Number  
**438-440**

Building Number  
**5**

Drawing Number  
**AE313**

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**1** WALL SECTION - BRICK @ LOUVER (DEDUCT ALTERNATE)  
1/2" = 1'-0"

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Date: 01/10/2019  
License Number: 18157

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Construction  
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U.S. Department  
of Veterans  
Affairs

Drawing Title  
**WALL SECTIONS (DEDUCT ALTERNATE)**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

Checked \_\_\_\_\_

Drawn \_\_\_\_\_

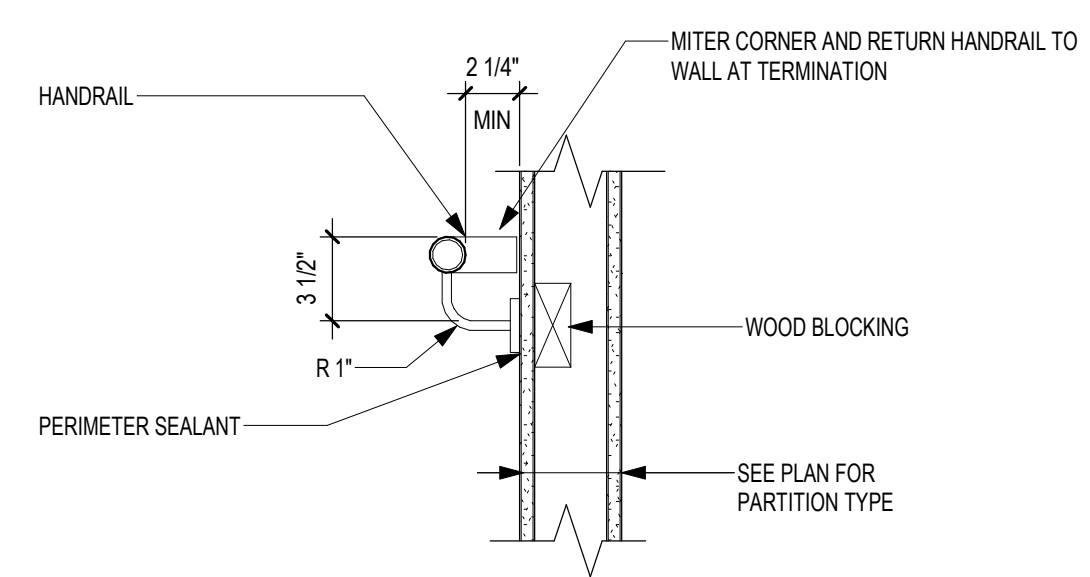
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**438-440**

Building Number  
**5**

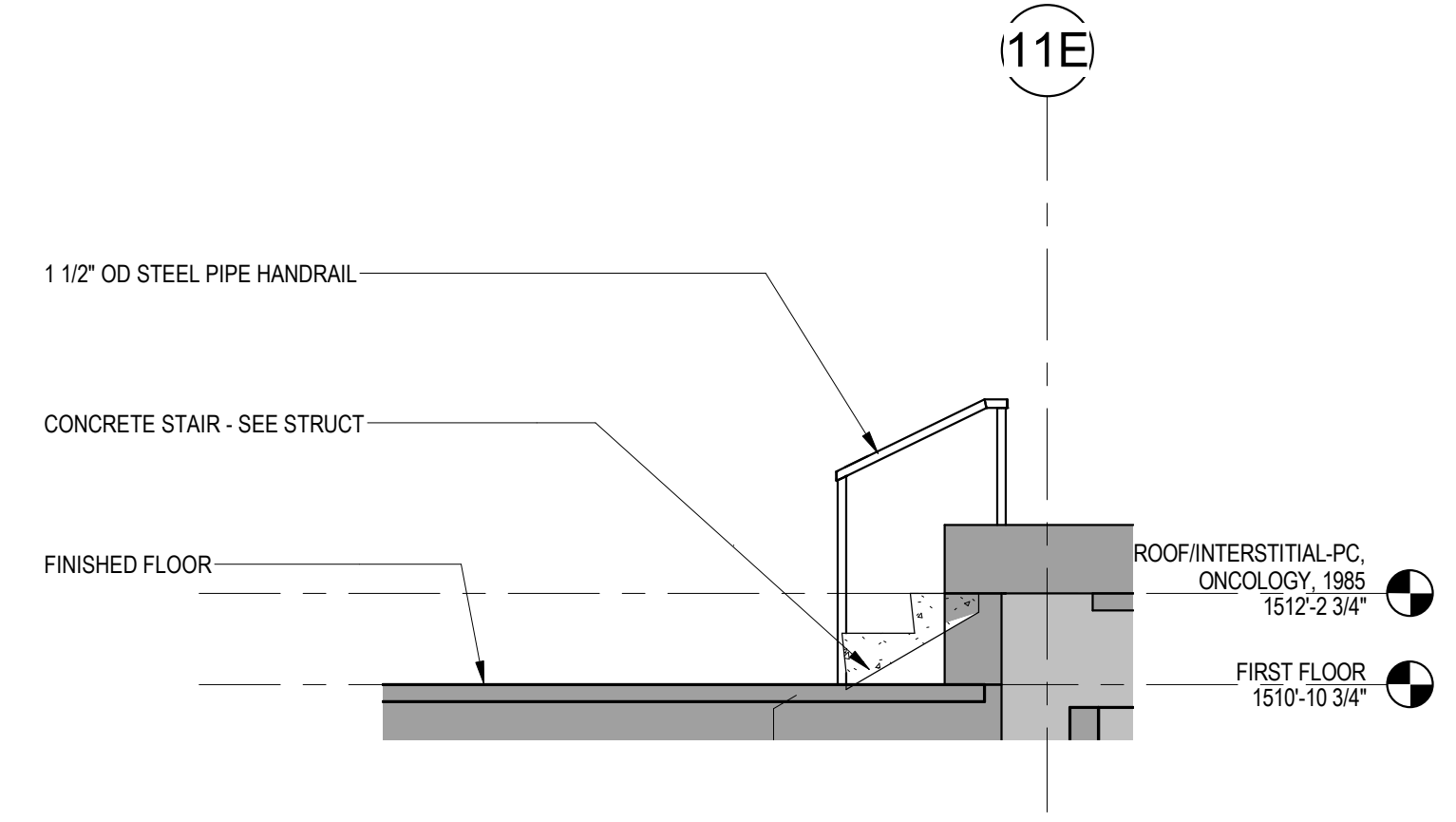
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**AE314**



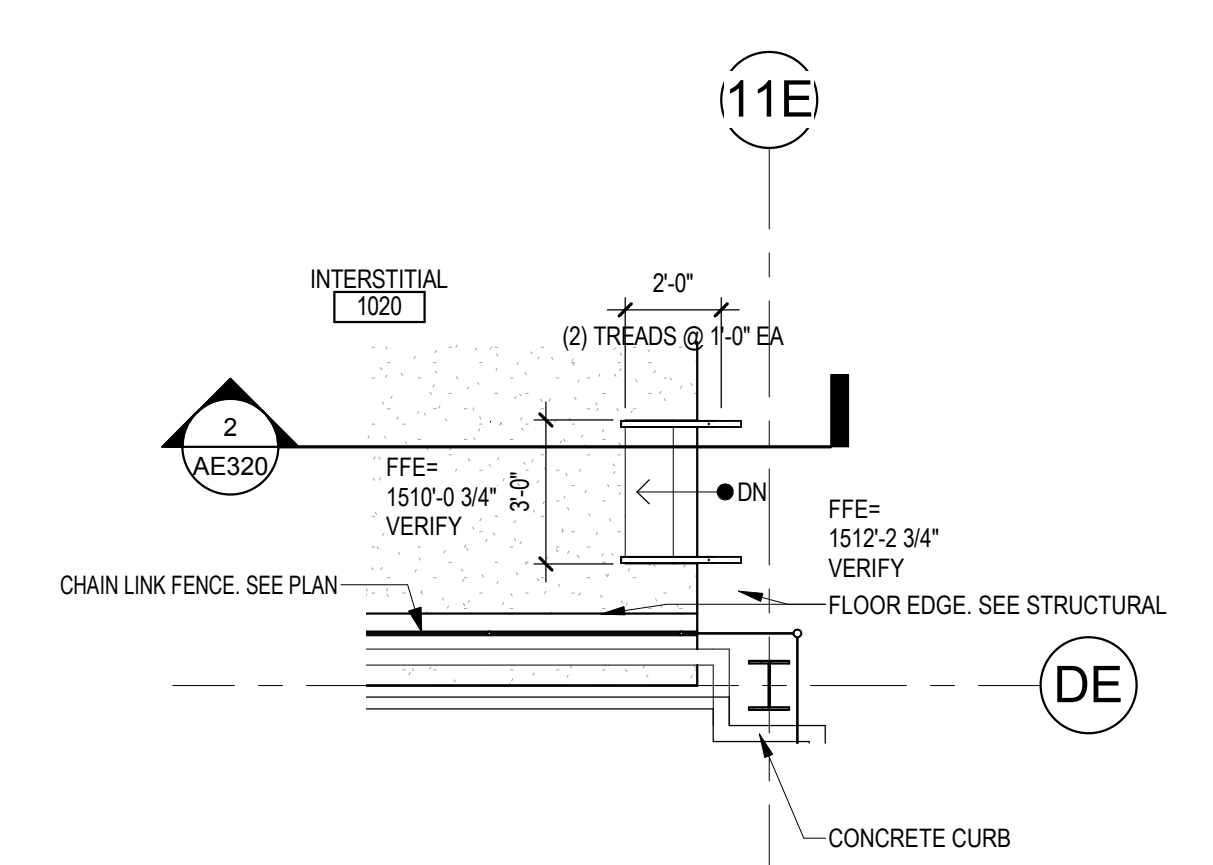
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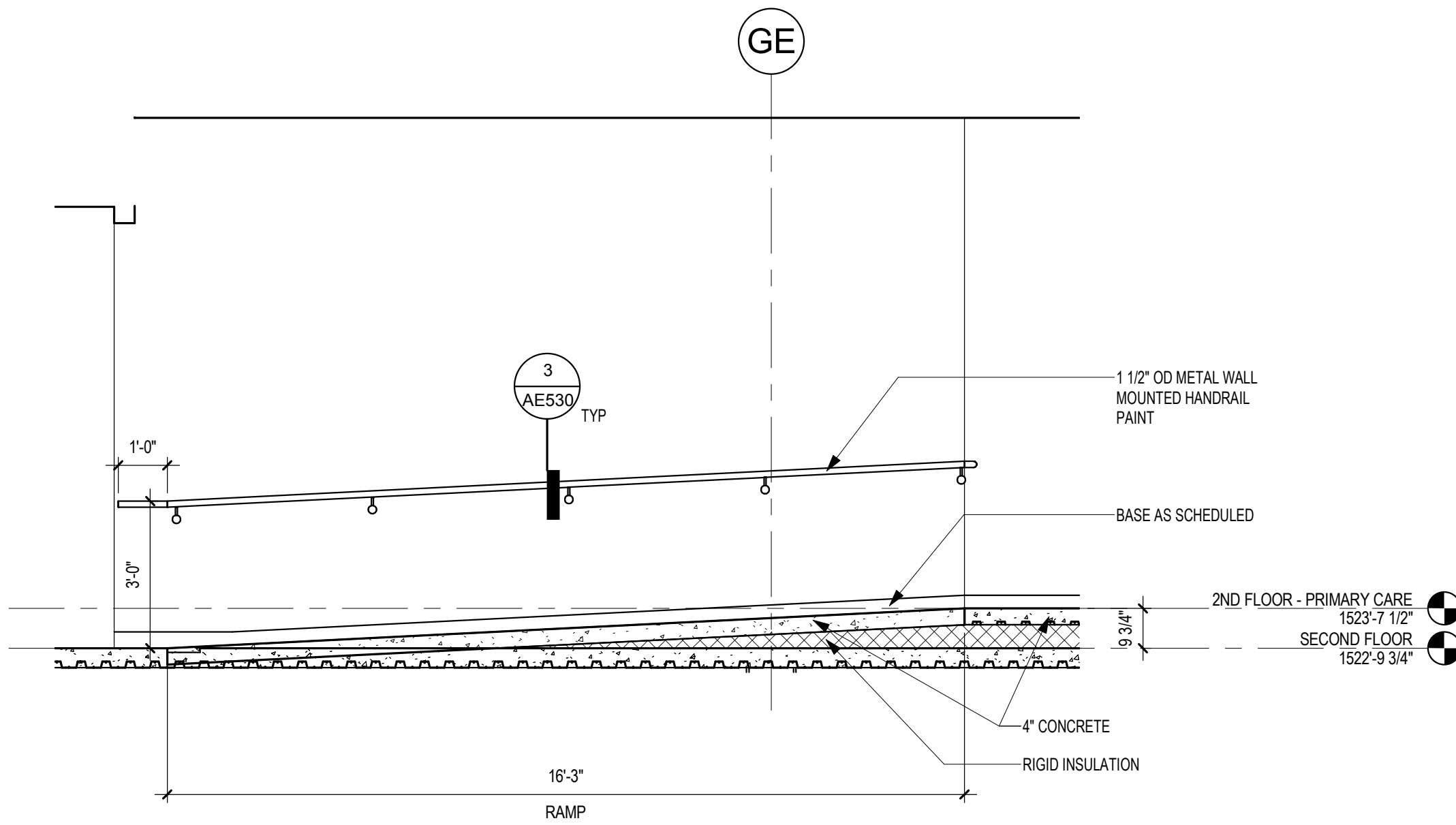
3 SECTION DETAIL - HANDRAIL AT GYP BD PARTITION  
1 1/2" = 1'-0"



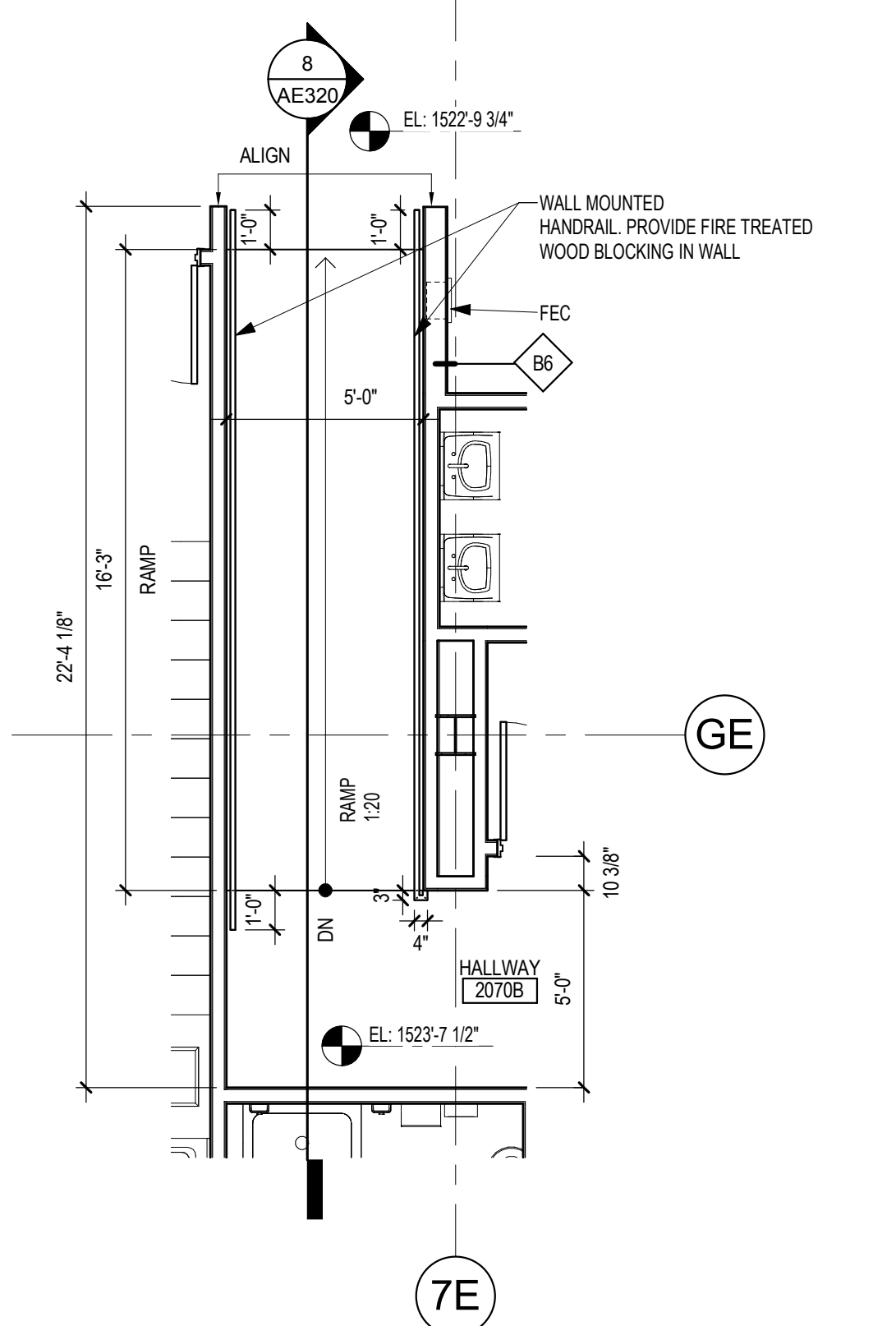
2 STAIR A SECTION - STAIR NORTH / SOUTH  
3/8" = 1'-0"



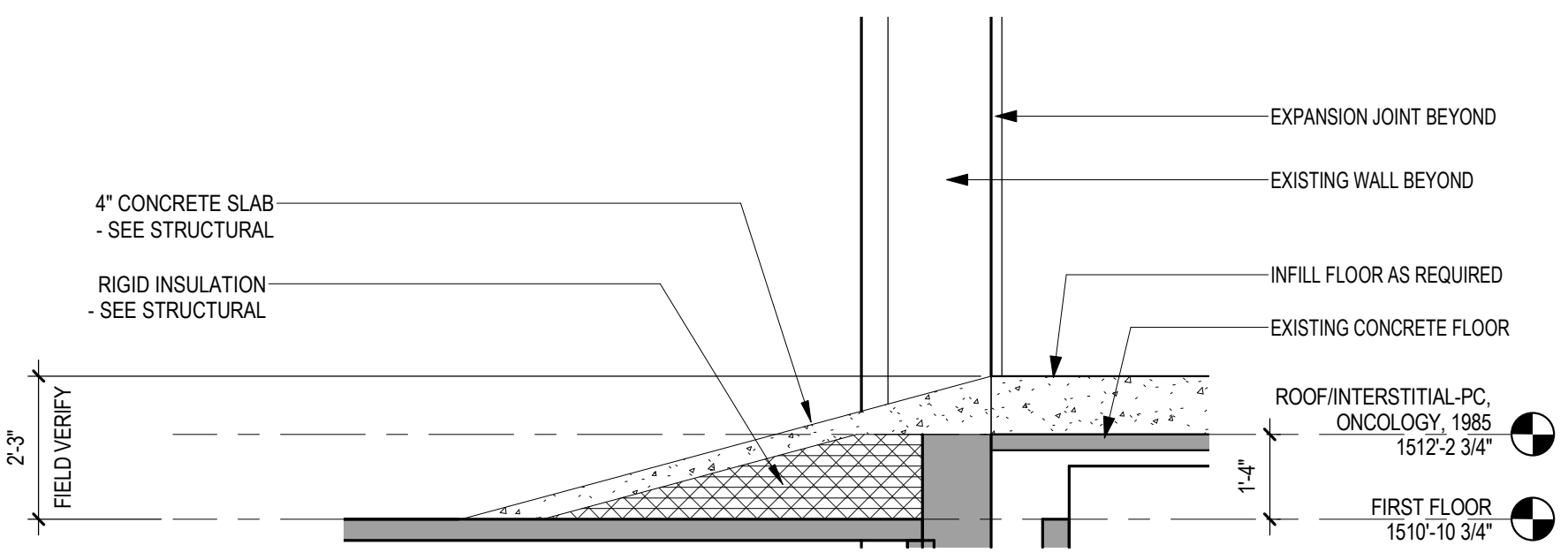
1 FIRST FLOOR PLAN - STAIR A  
1/4" = 1'-0"



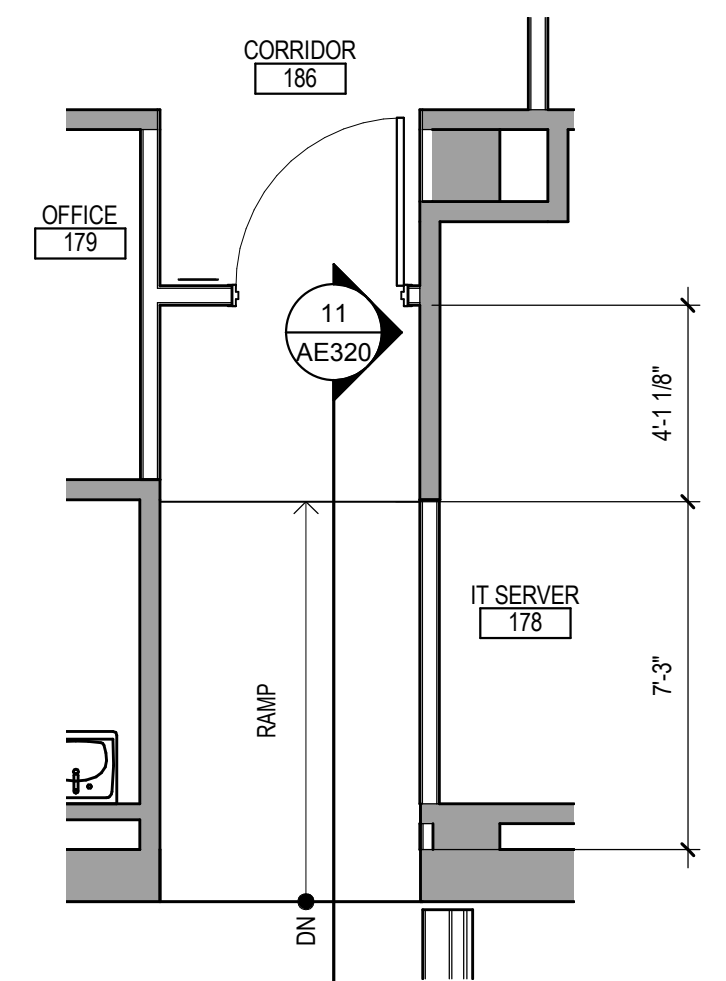
8 RAMP SECTION @ HALLWAY 2070B  
3/8" = 1'-0"



7 SECOND FLOOR PLAN - RAMP  
1/4" = 1'-0"



11 SECTION - RAMP AT INTERSTITIAL  
3/8" = 1'-0"



10 FIRST FLOOR PLAN - RAMP  
1/4" = 1'-0"

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AE PROJECT NUMBER: 14567

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Signature: *[Signature]*

Name: Tom Olesak  
Date: 01/10/2019  
License Number: 18157

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title  
**STAIR AND RAMP SECTIONS, ENLARGED PLANS & DETAILS**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

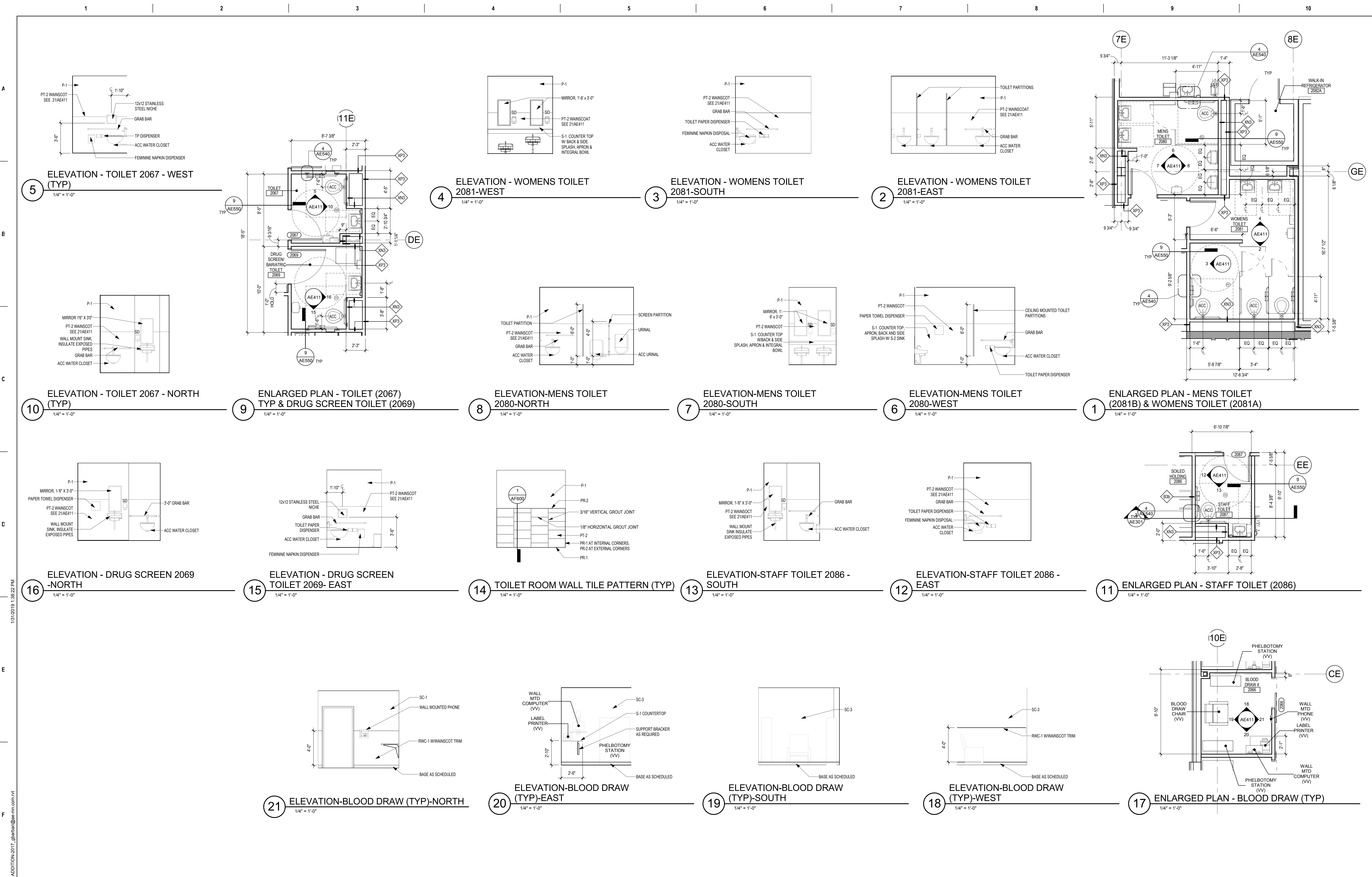
Issue Date  
01/11/2019

Checked  
Drawn  
GJB/JMT

Project Number  
**438-440**

Building Number  
**5**

Drawing Number  
**AE320**



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AE PROJECT NUMBER: 14567

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Signature: *[Signature]*

Name: Tom Olesak  
Date: 01/10/2019  
License Number: 18157

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and Facilities  
Management

**VA** U.S. Department  
of Veterans  
Affairs

Drawing Title  
**ENLARGED PLANS**

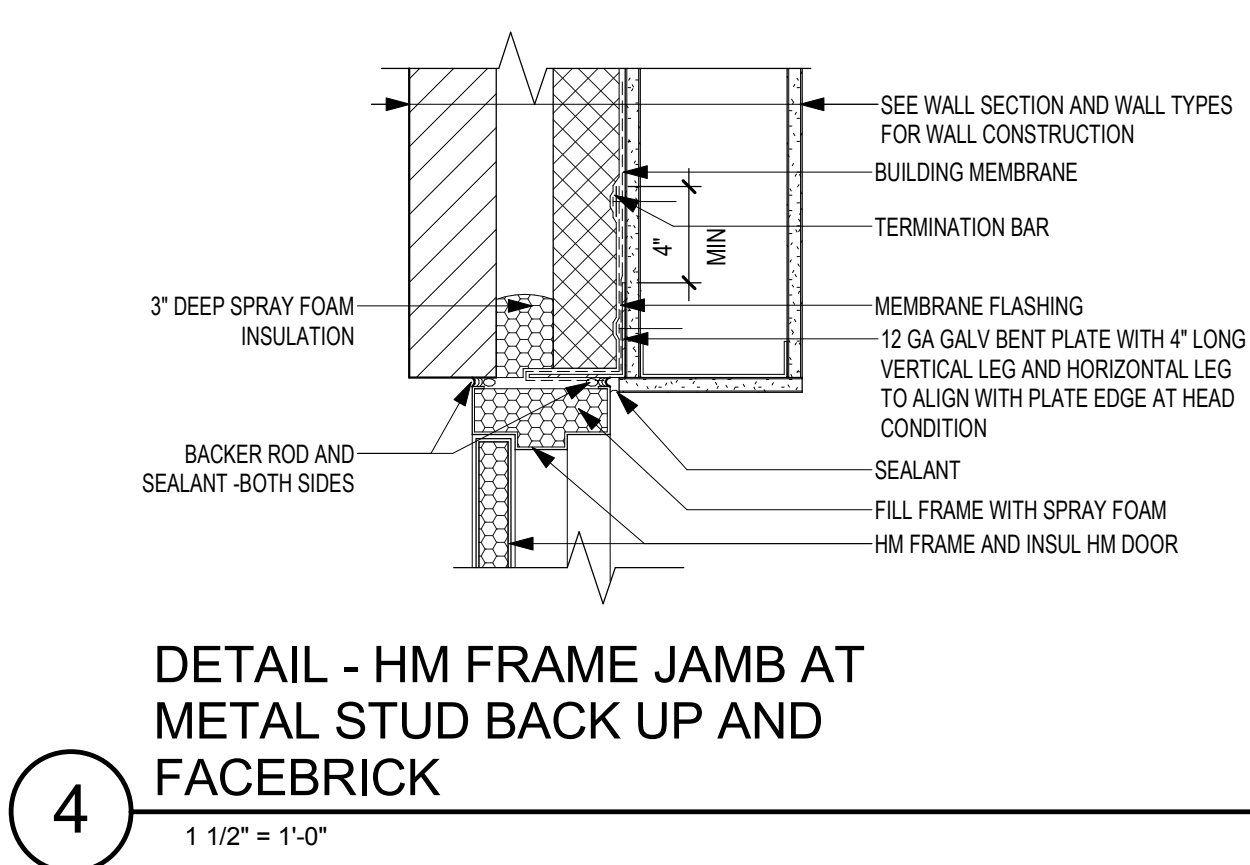
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Phase  
**CONSTRUCTION DOCUMENTS**

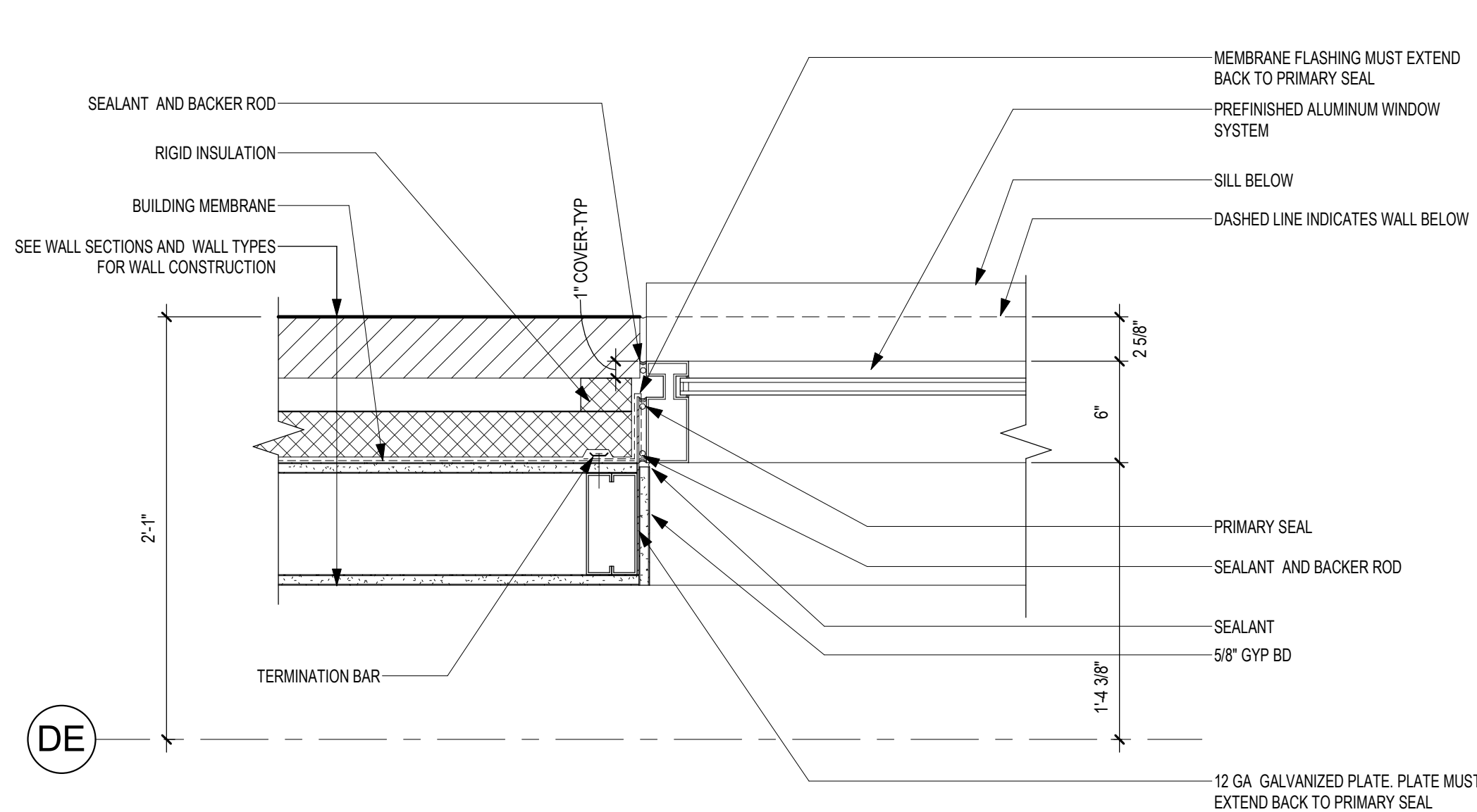
FULLY SPRINKLERED

Project Title <b>CONSTRUCT LABORATORY ADDITION</b>		Project Number <b>438-440</b>
Location <b>SIOUX FALLS, SOUTH DAKOTA</b>		Building Number <b>5</b>
Issue Date <b>01/11/2019</b>	Checked <b>[Signature]</b>	Drawn <b>GJB/JMT</b>
Drawing Number <b>AE411</b>		

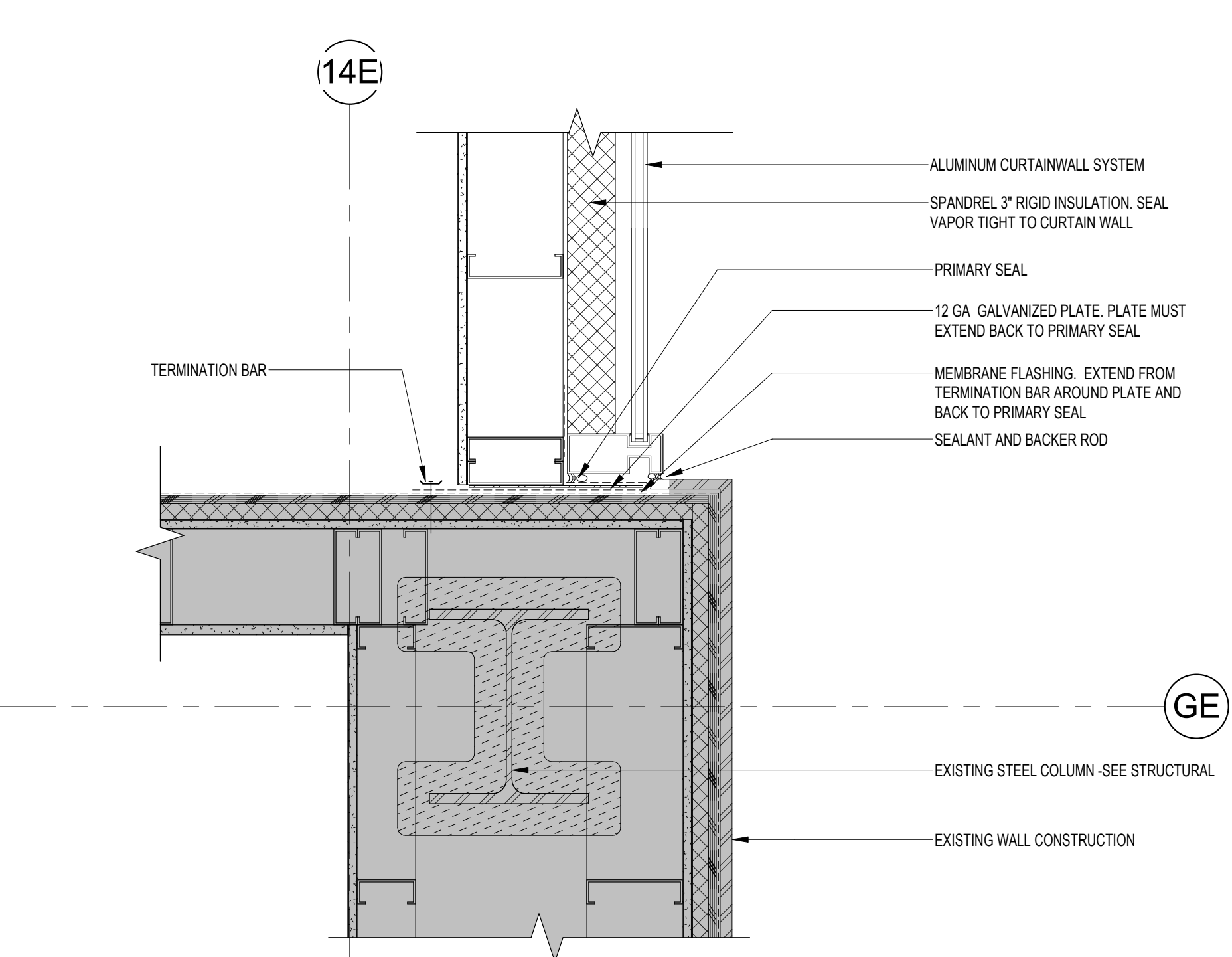
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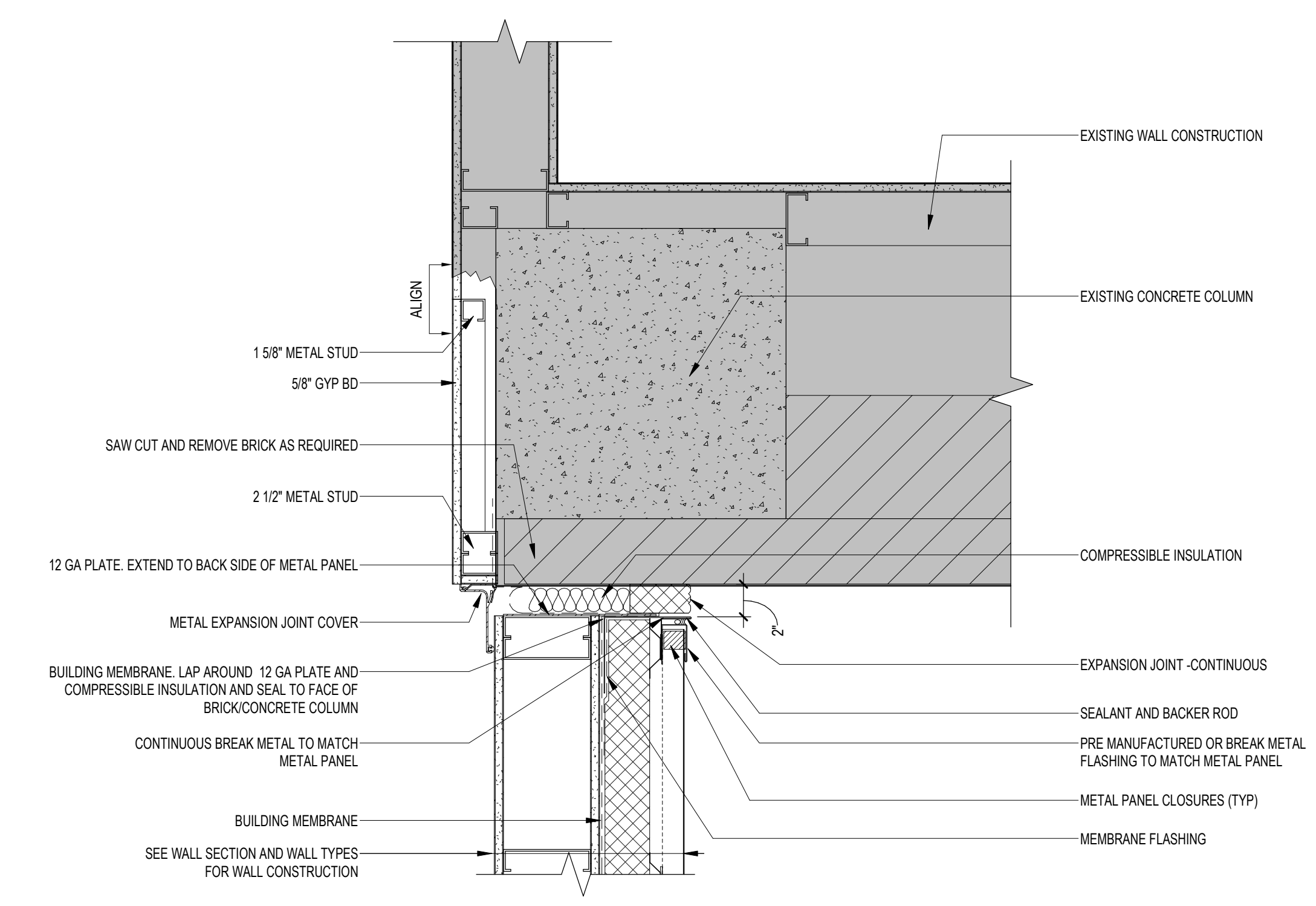
**4** DETAIL - HM FRAME JAMB AT METAL STUD BACK UP AND FACEBRICK  
1 1/2" = 1'-0"



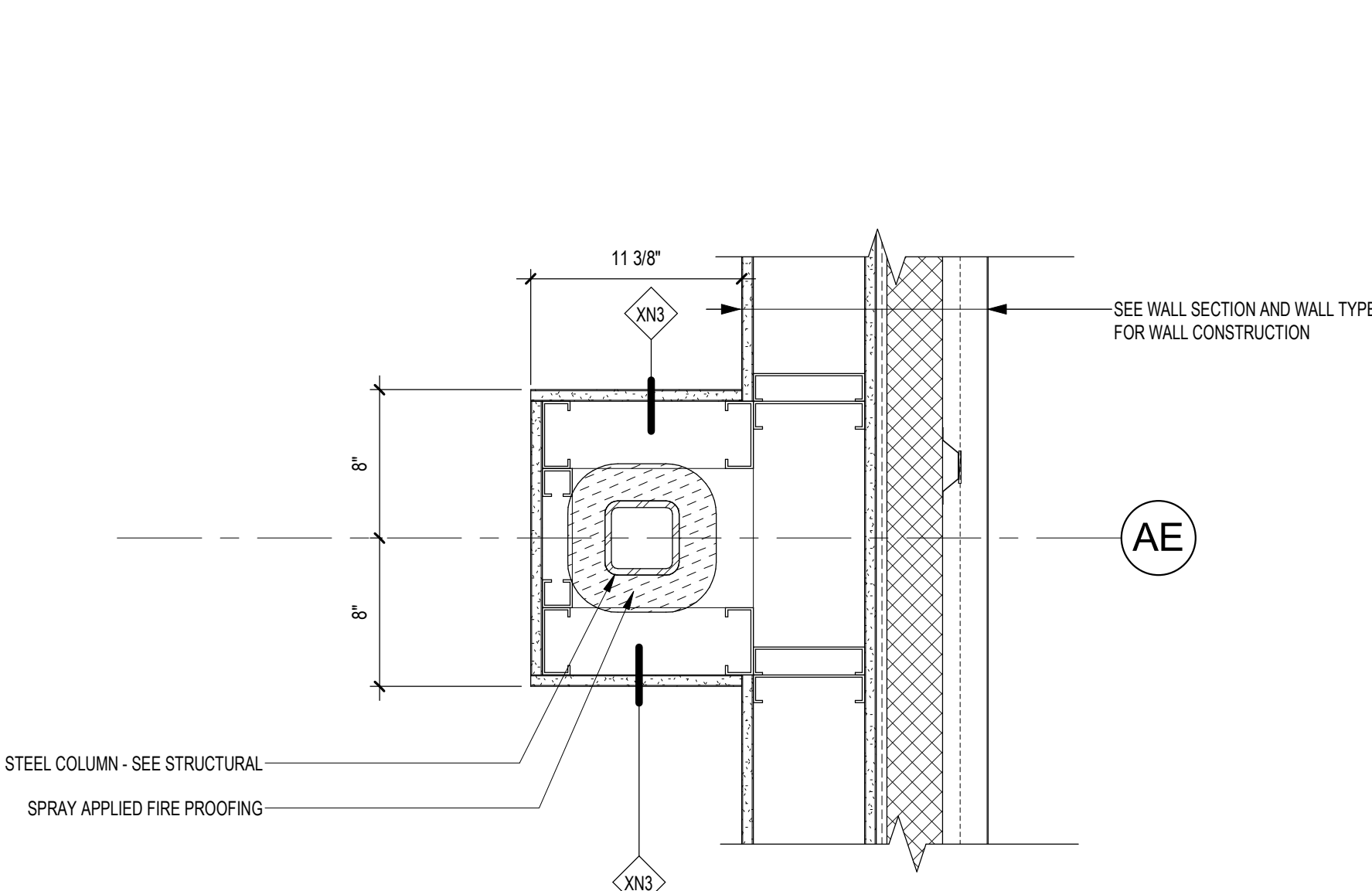
**3** PLAN DETAIL - WINDOW JAMB @ BRICK  
1 1/2" = 1'-0"



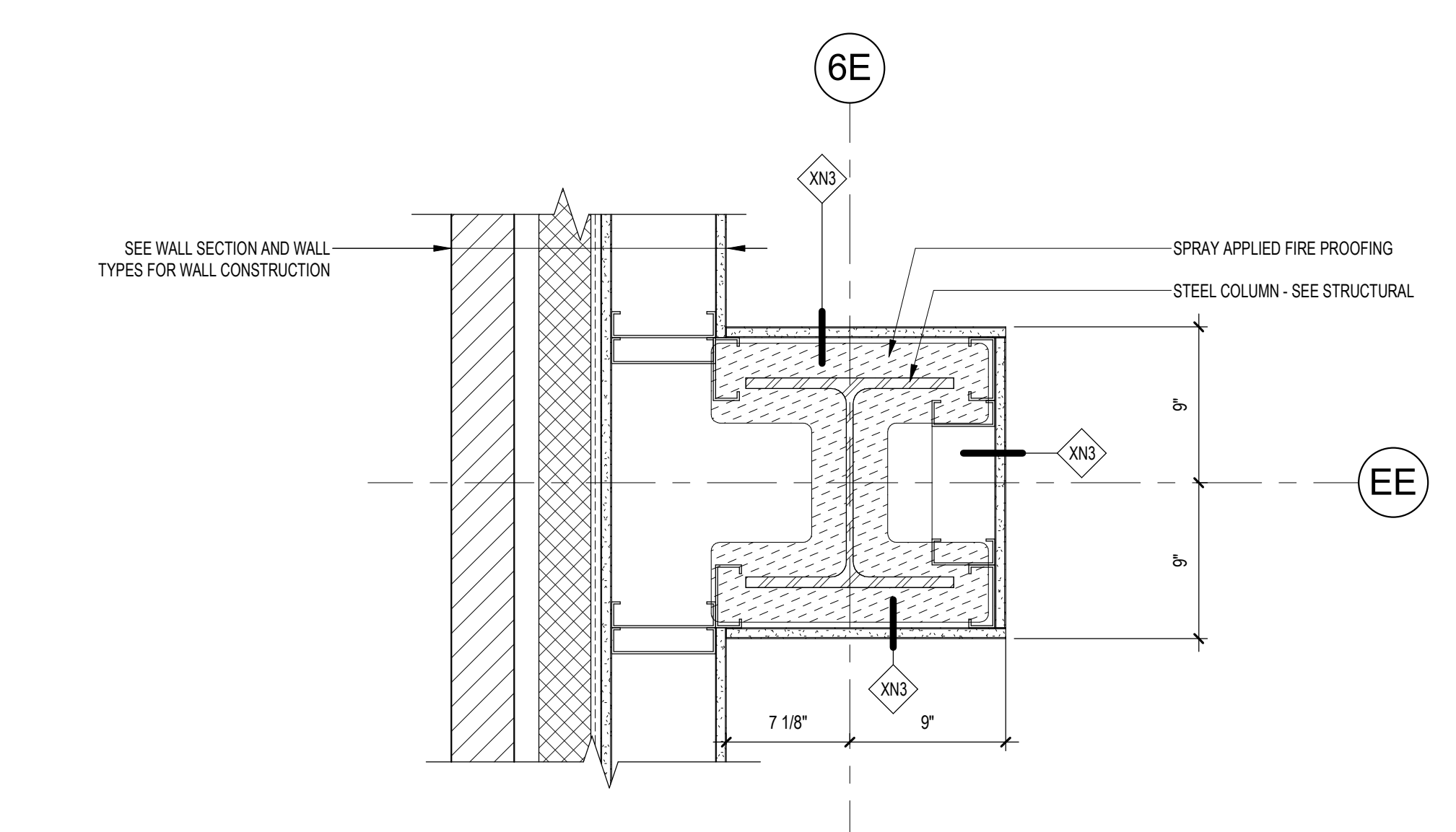
**2** PLAN DETAIL - CURTAIN WALL @ EXISTING METAL SHINGLE  
1 1/2" = 1'-0"



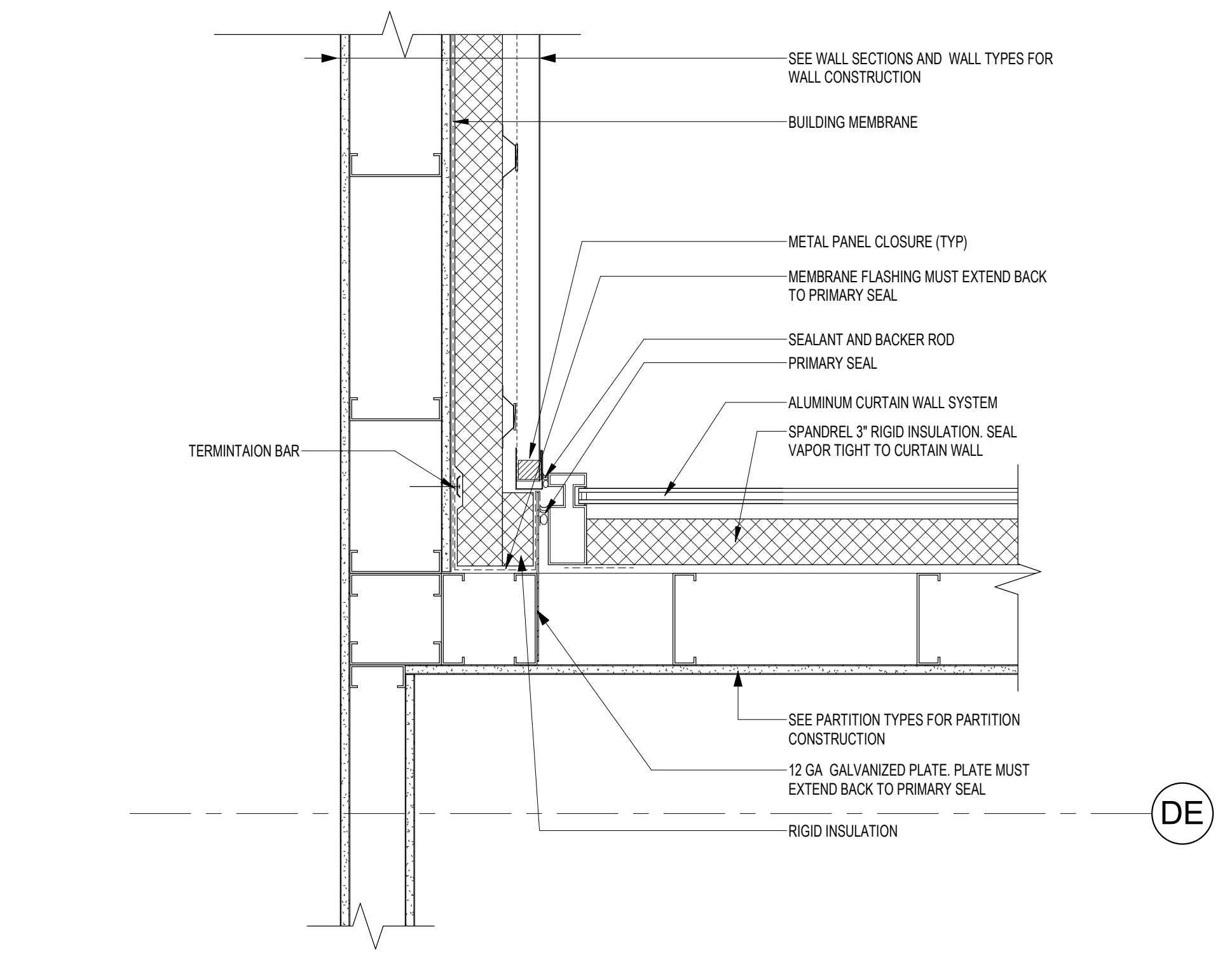
**1** PLAN DETAIL - METAL PANEL AT EXISTING BRICK  
1 1/2" = 1'-0"



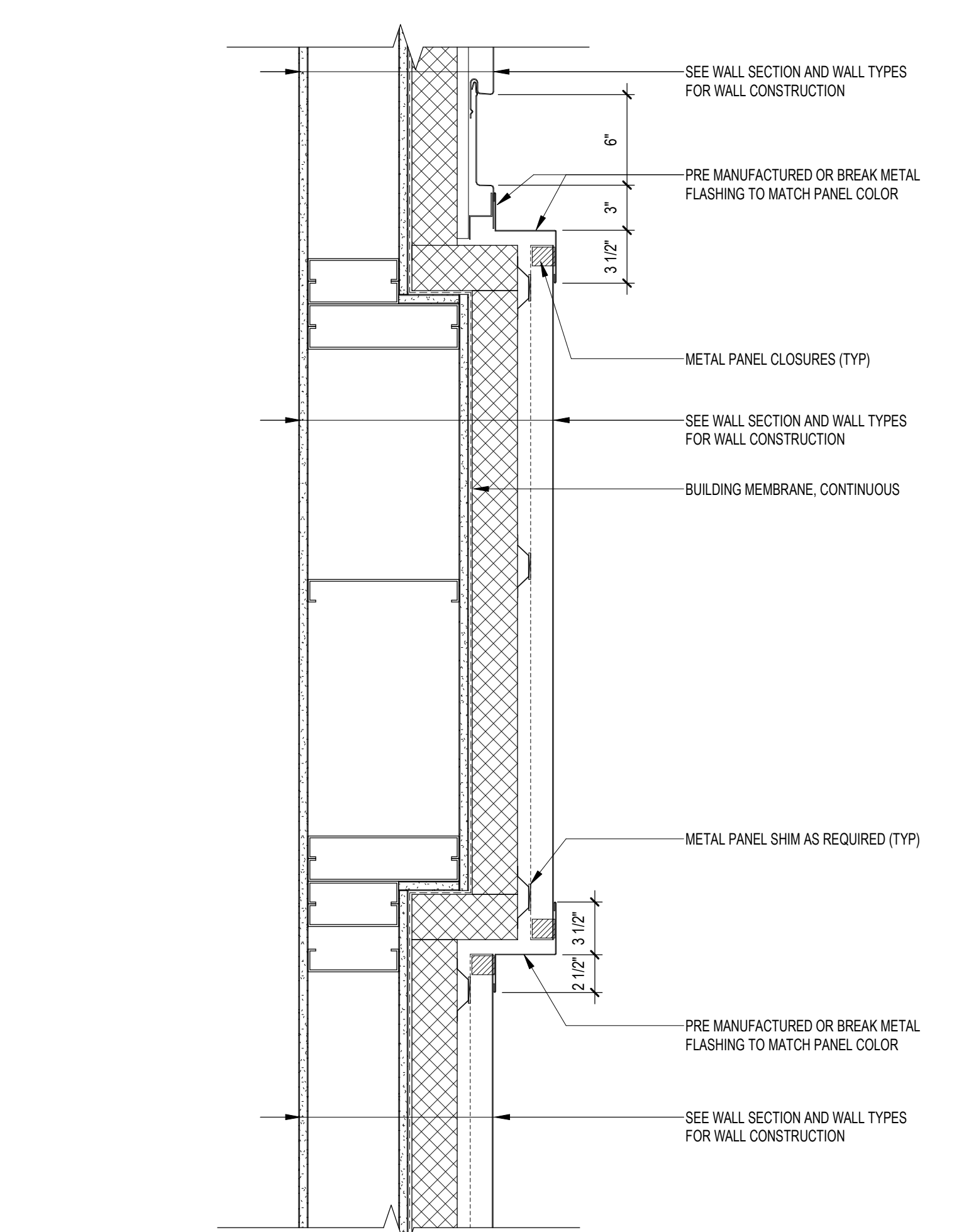
**8** PLAN DETAIL - PARTITION AT TUBE COLUMN (TYP)  
1 1/2" = 1'-0"



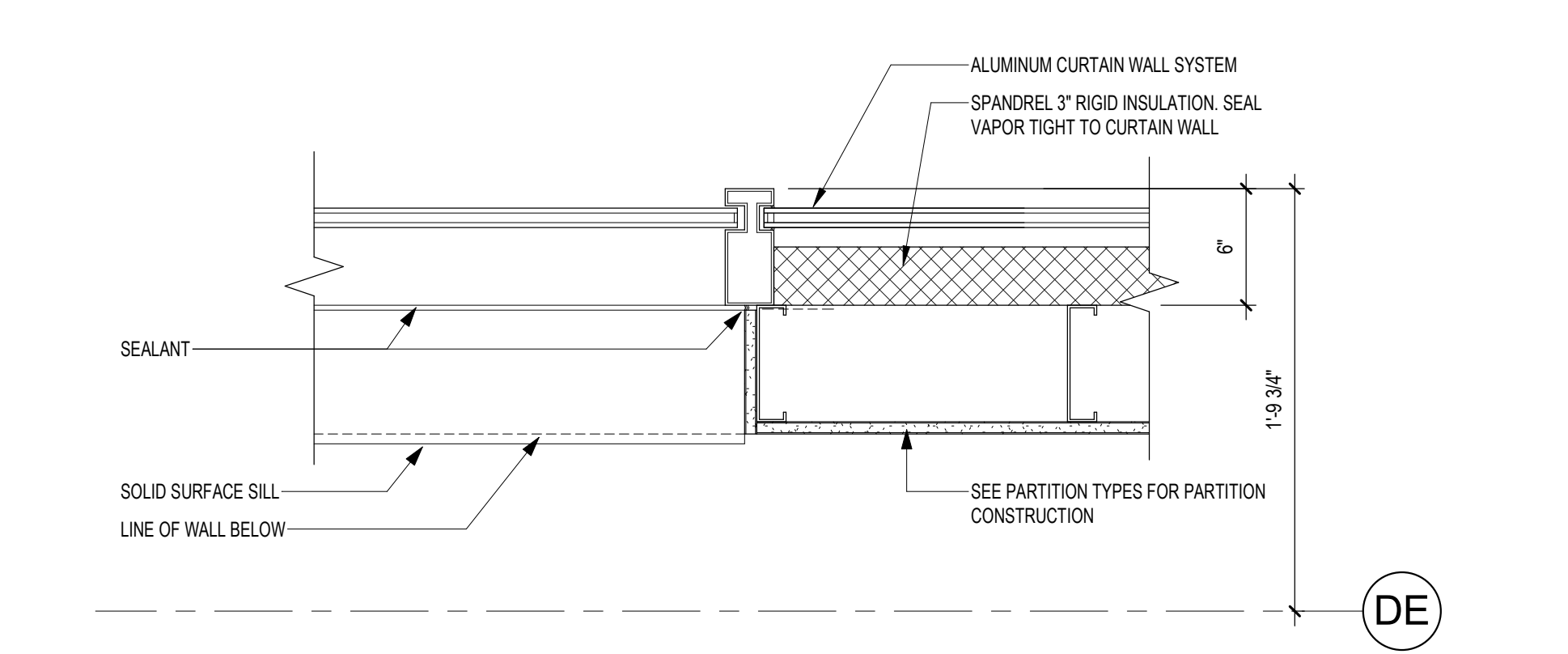
**7** PLAN DETAIL - COLUMN ENCLOSURE AT WIDE FLANG COLUMN (TYP)  
1 1/2" = 1'-0"



**6** PLAN DETAIL - CURTAIN WALL @ METAL PANEL INSIDE CORNER  
1 1/2" = 1'-0"



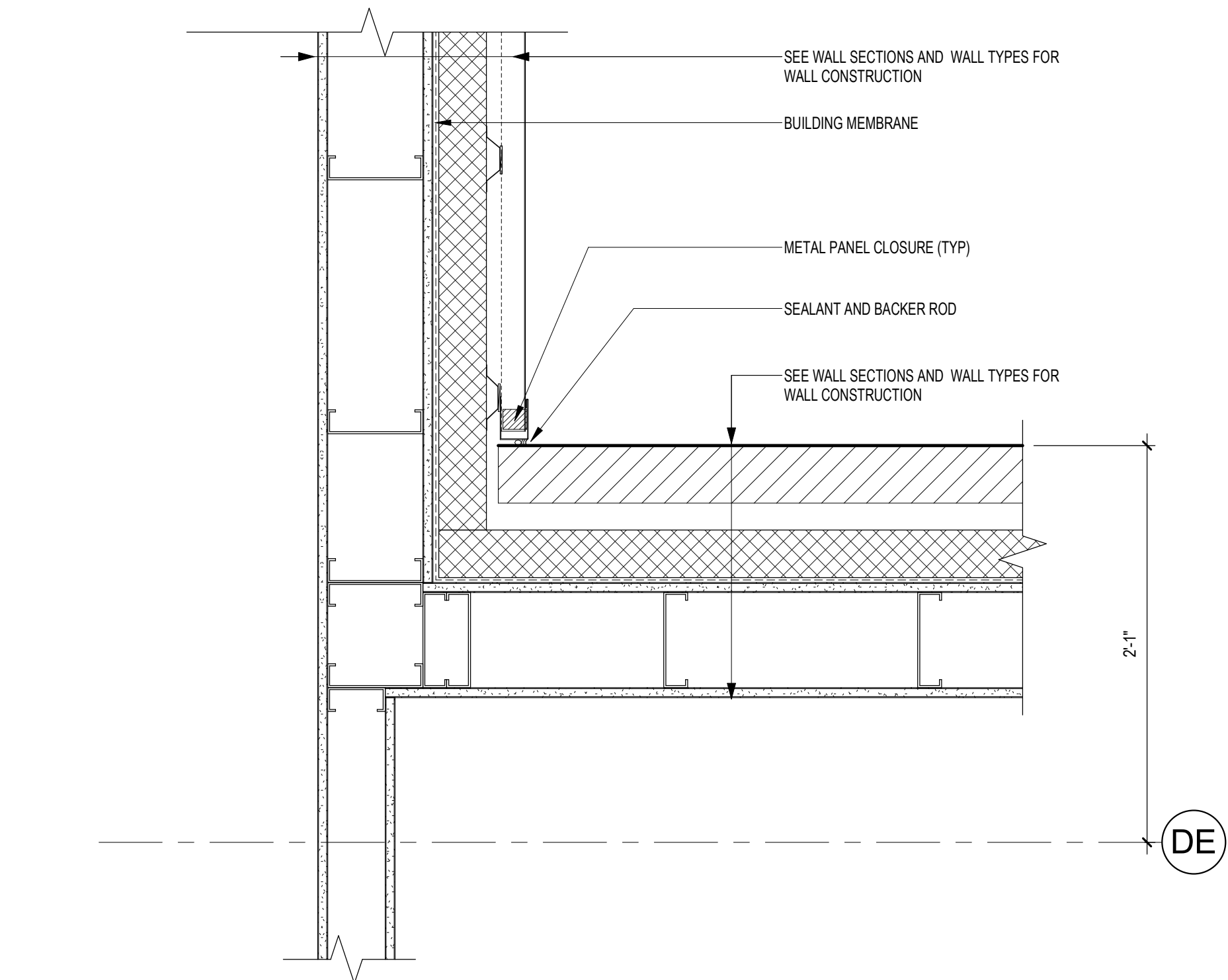
**5** PLAN DETAIL - METAL PANEL @ PILASTER  
1 1/2" = 1'-0"



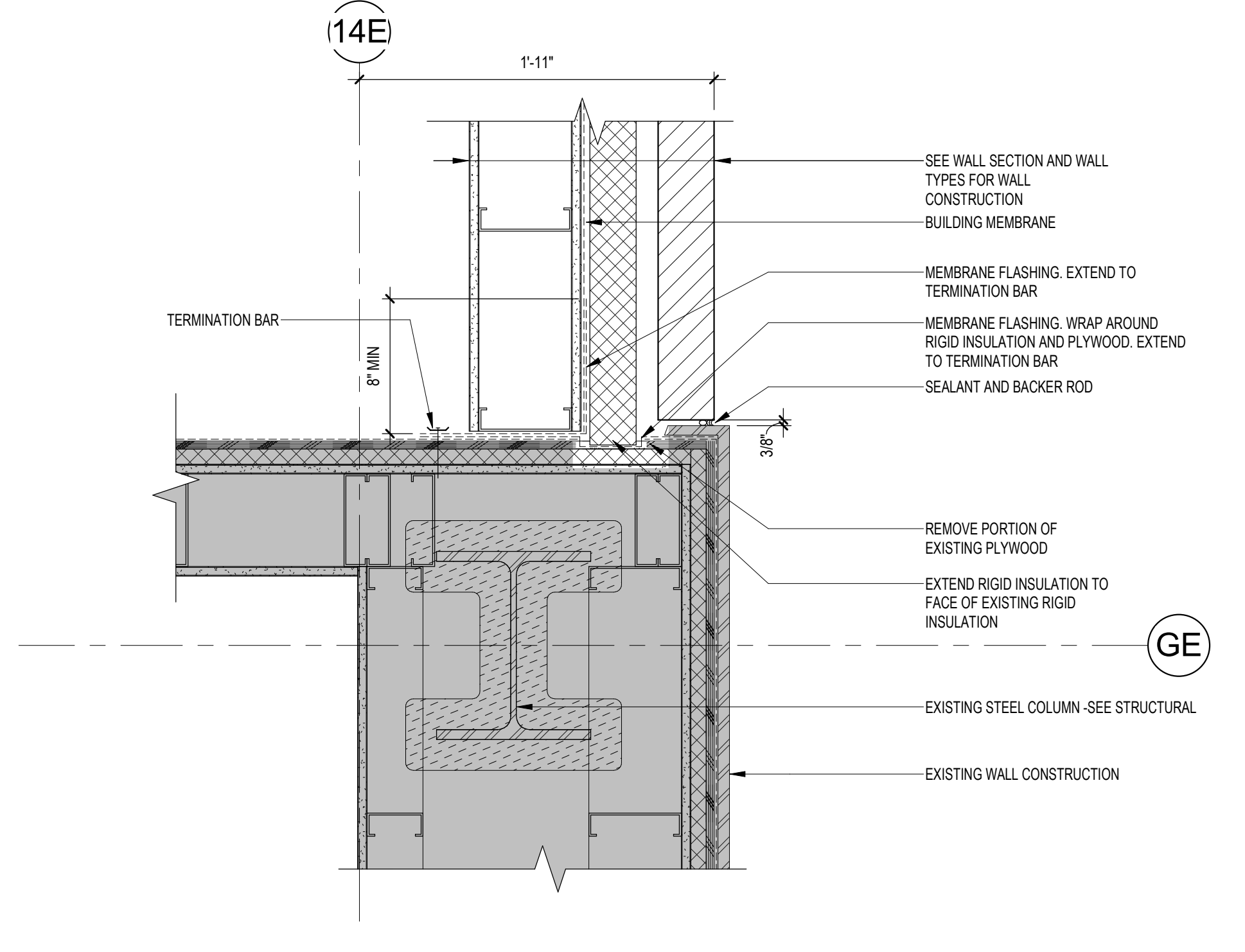
**9** PLAN DETAIL - CURTAIN WALL JAMB OPENING  
1 1/2" = 1'-0"

Revisions: Date:	<b>CONSULTANT</b>  15 SUNNEN DR SUITE 104 SAINT LOUIS, MO 63143 PH: 314.645.1132 FAX: 314.645.1173 www.imegcorp.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Anderson Engineering of Minnesota, LLC 13605 1st Avenue North Suite 100 Plymouth, MN 55441 763-412-4000 (o) 763-412-4090 (f) www.ae-mn.com	<b>STAMP</b> I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of Minnesota. Signature: <i>Tom Olesak</i> Name: Tom Olesak Date: 01/10/2019 License Number: 18157	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>EXTERIOR PLAN DETAILS</b> Approved:	Phase <b>CONSTRUCTION DOCUMENTS</b> <b>FULLY SPRINKLERED</b>	Project Title <b>CONSTRUCT LABORATORY ADDITION</b> Location <b>SIOUX FALLS, SOUTH DAKOTA</b> Issue Date 01/11/2019	Project Number <b>438-440</b> Building Number <b>5</b> Drawing Number <b>AE501</b>
	Checked: _____ Drawn: GJB/JMT	Project Number <b>438-440</b> Building Number <b>5</b> Drawing Number <b>AE501</b>						

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**2** PLAN DETAIL - METAL PANEL AT BRICK INSIDE CORNER  
1 1/2" = 1'-0"  
BASE BID AT SIM/REV




**1** PLAN DETAIL - BRICK AT EXISTING METAL SHINGLE (DEDUCT ALTERNATE)  
1 1/2" = 1'-0"  
BASE BID AT SIM/REV

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AE PROJECT NUMBER: 14567


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Date: 01/10/2019  
License Number: 18157

Office of  
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and Facilities  
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U.S. Department  
of Veterans  
Affairs

Drawing Title  
**EXTERIOR PLAN DETAILS  
(DEDUCT ALTERNATE)**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION  
DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY  
ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

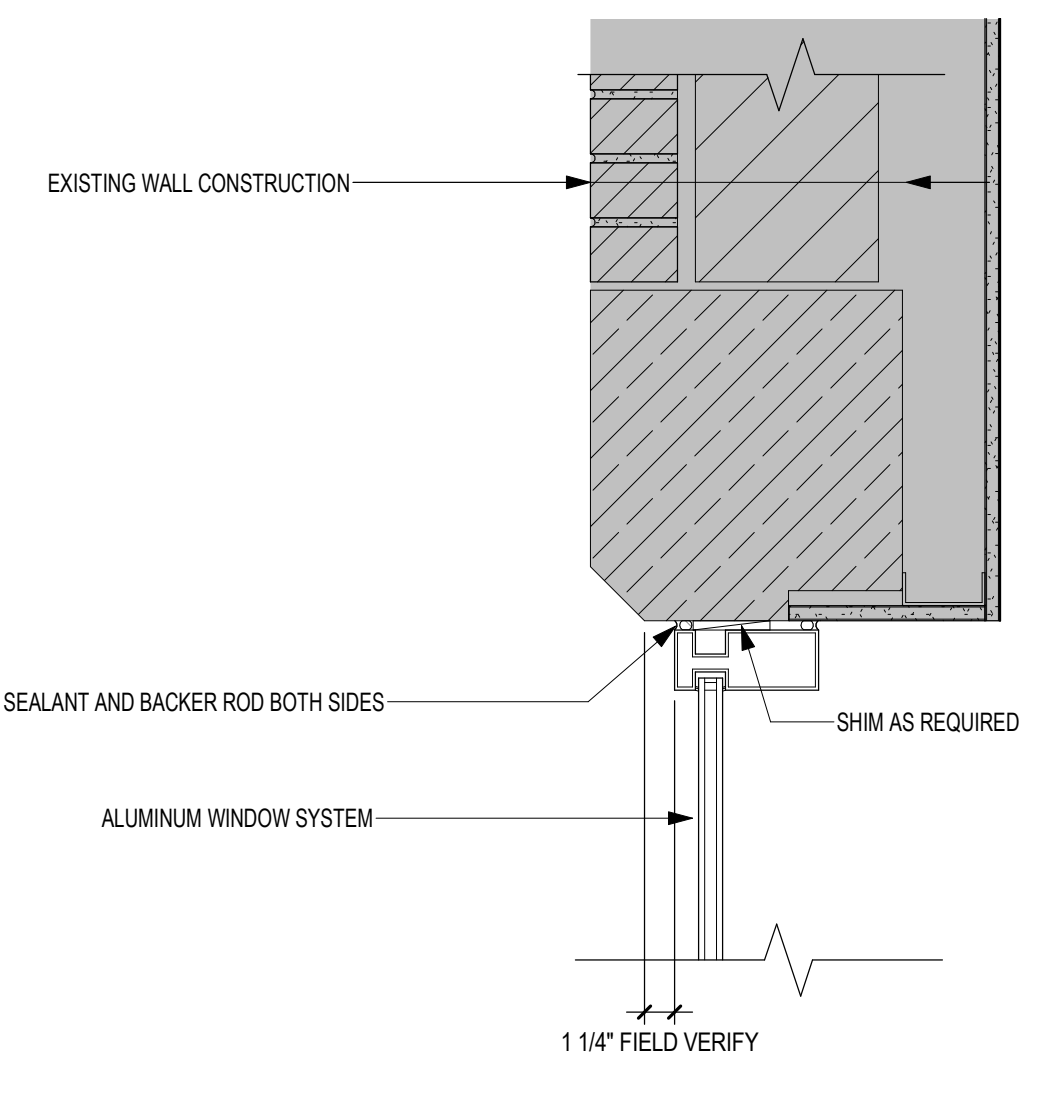
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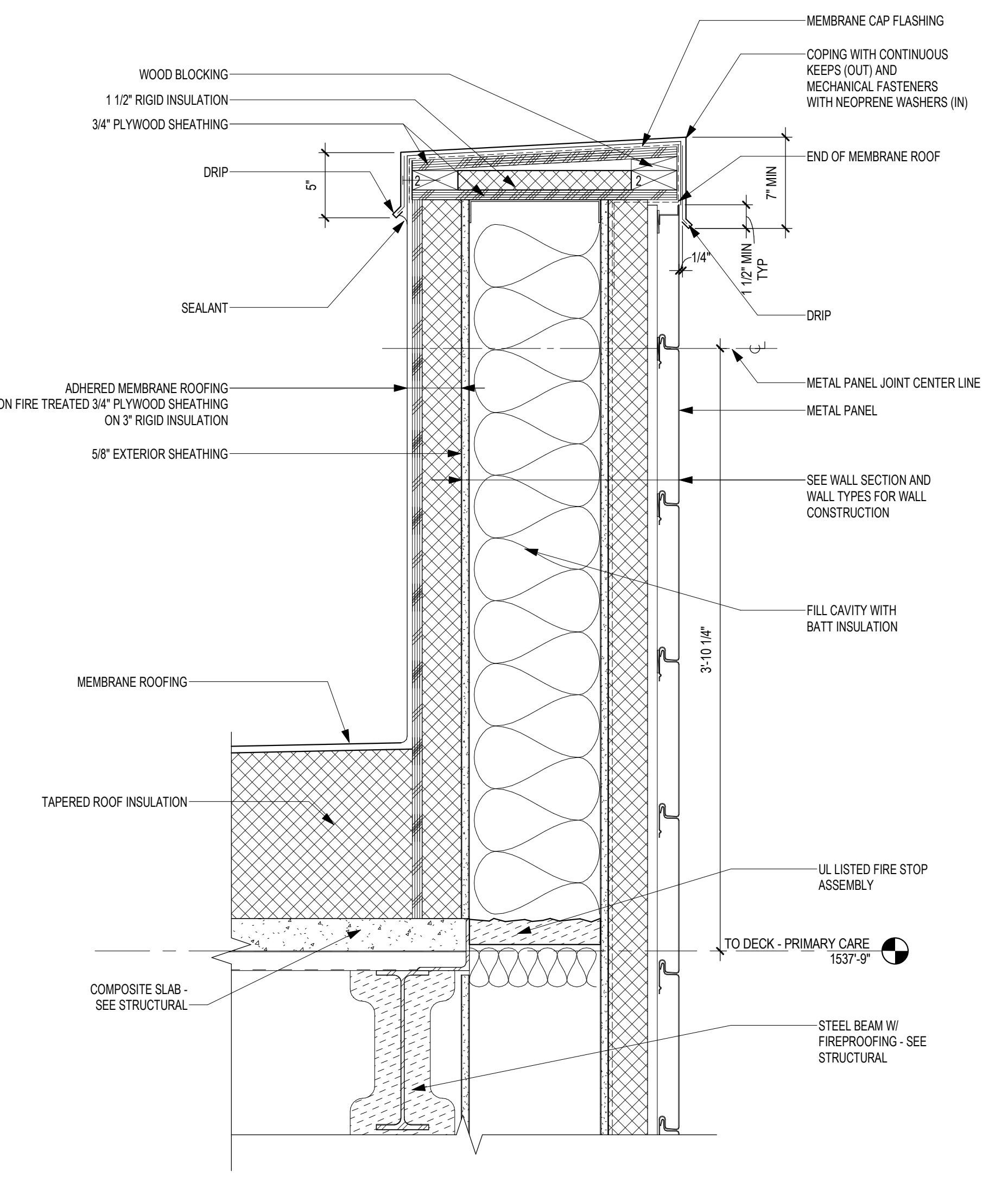
Project Number  
**438-440**

Building Number  
**5**

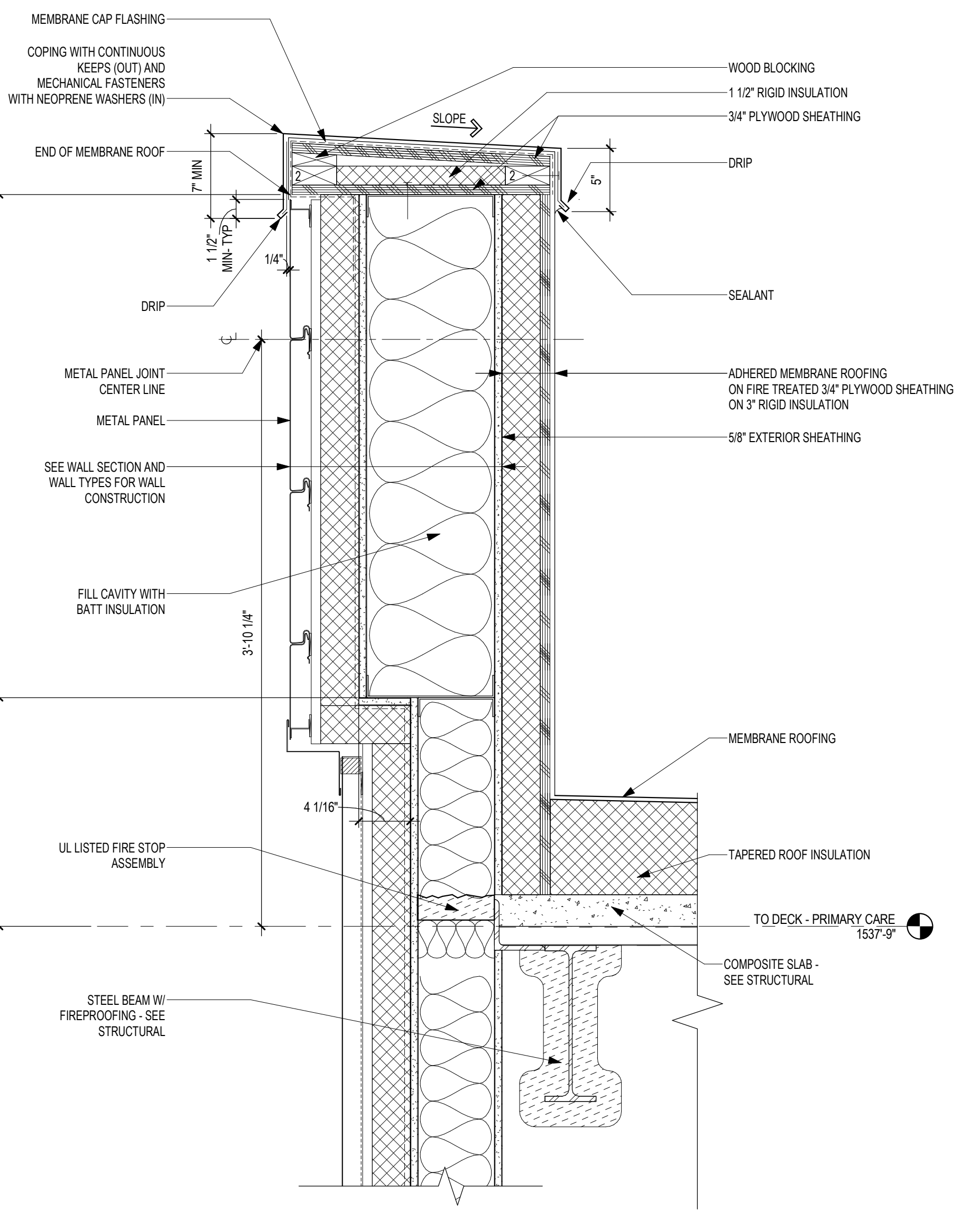
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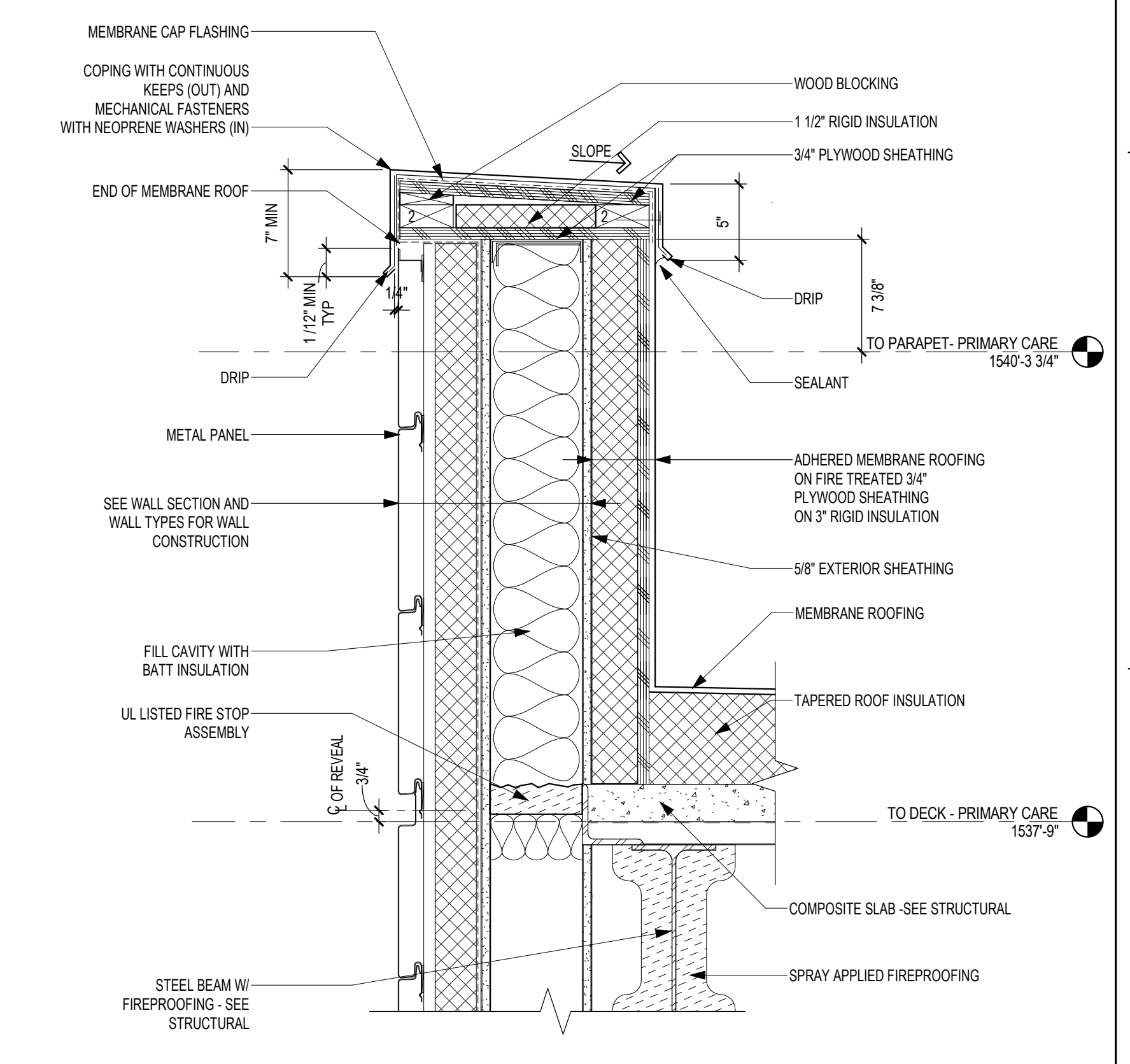
**4 SECTION DETAIL - WINDOW HEAD @ EXISTING BRICK**  
1 1/2" = 1'-0"



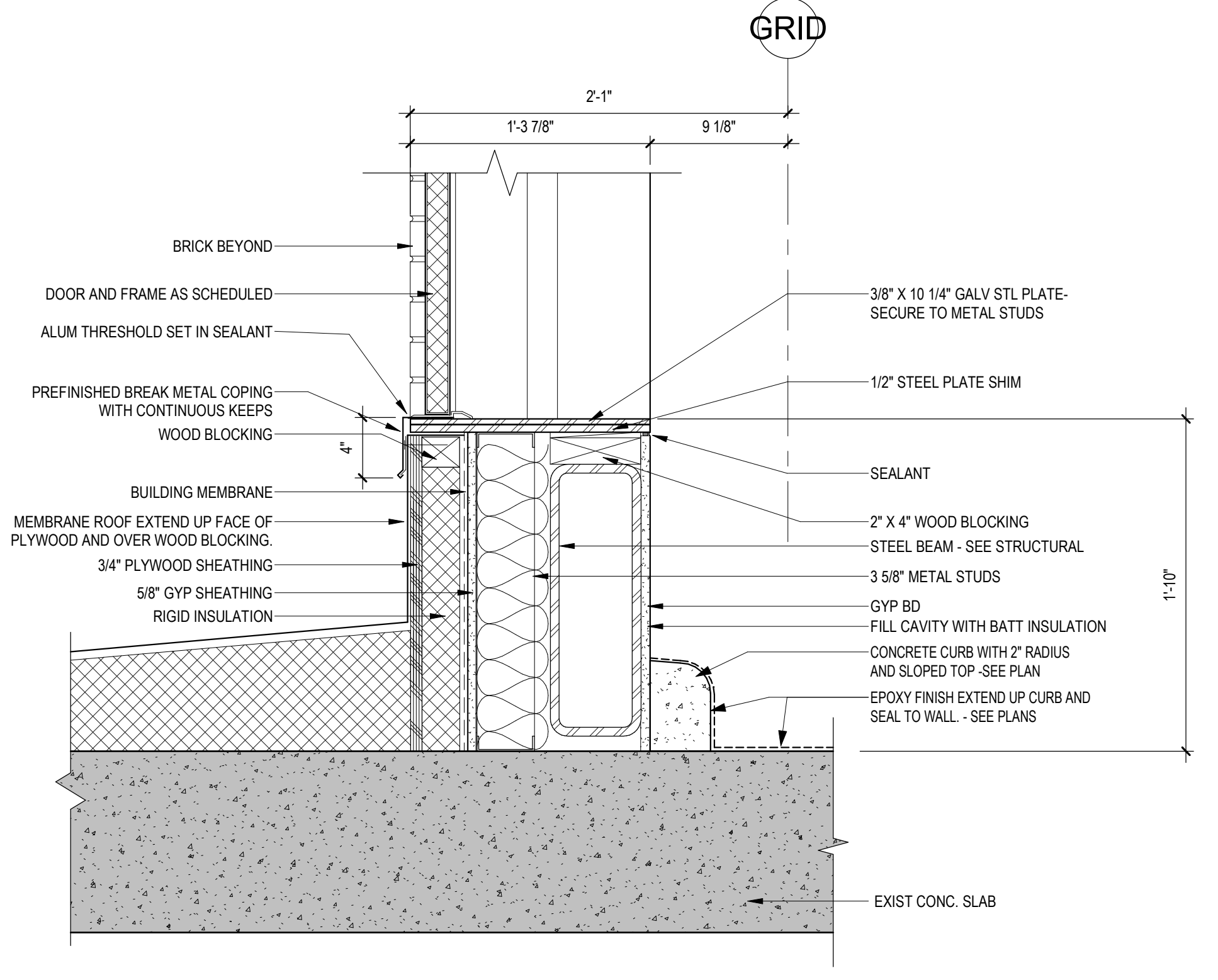
**3 SECTION DETAIL - METAL PANEL PARAPET @ WALL TYPE SM1A**  
1 1/2" = 1'-0"



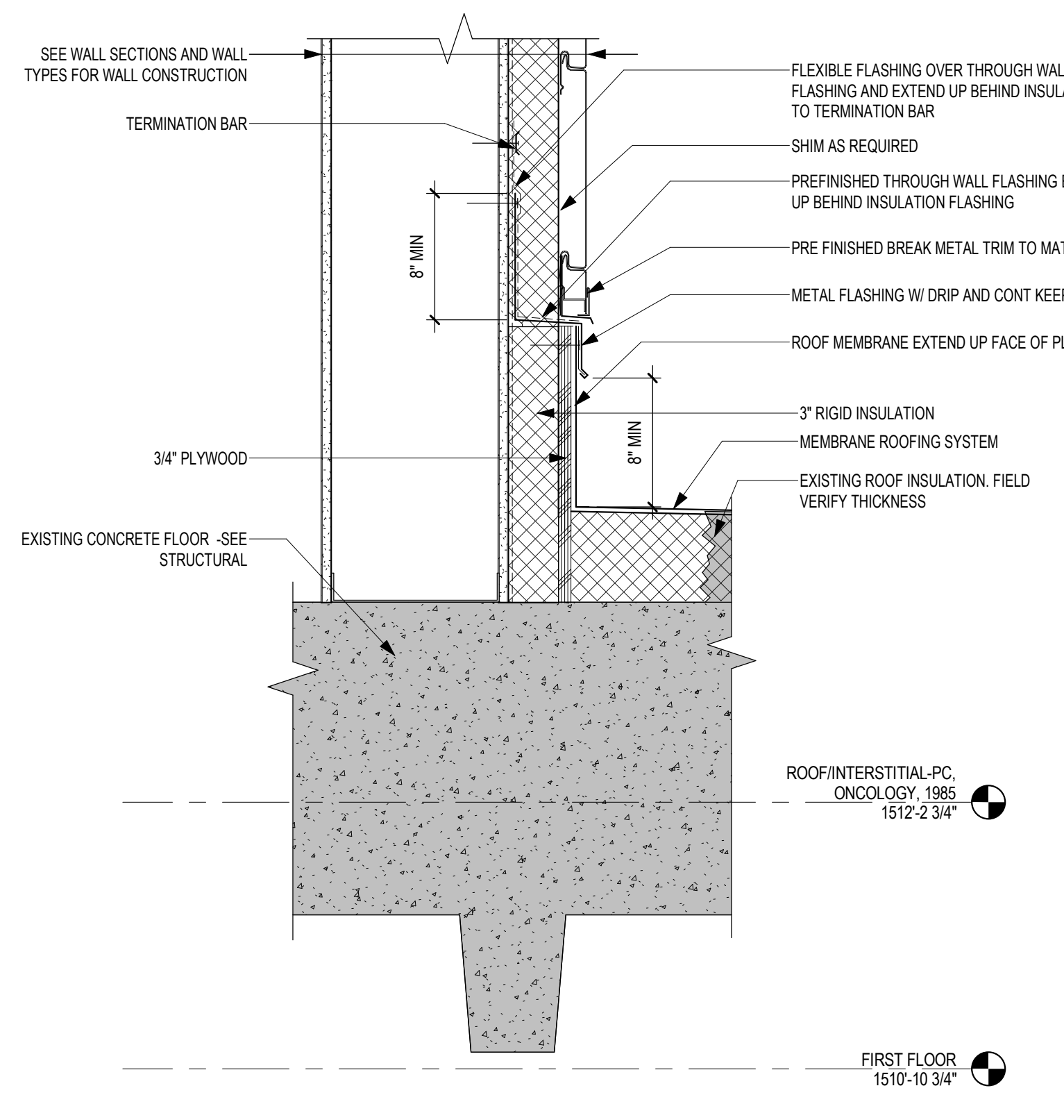
**2 SECTION DETAIL - PARAPET VERTICAL METAL PANEL**  
1 1/2" = 1'-0"



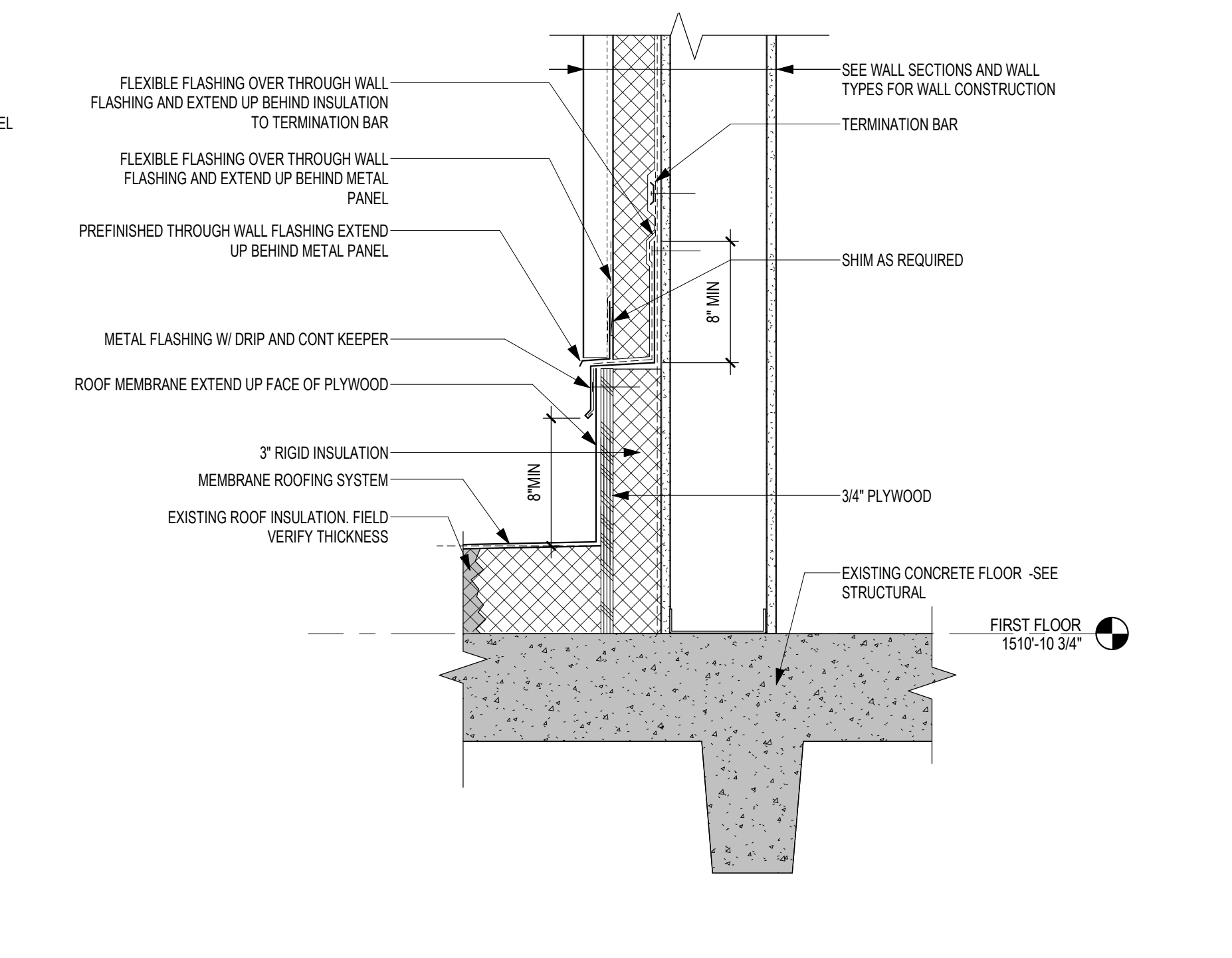
**1 SECTION DETAIL - METAL PANEL PARAPET @ BLOOD DRAW (TYP)**  
1 1/2" = 1'-0"



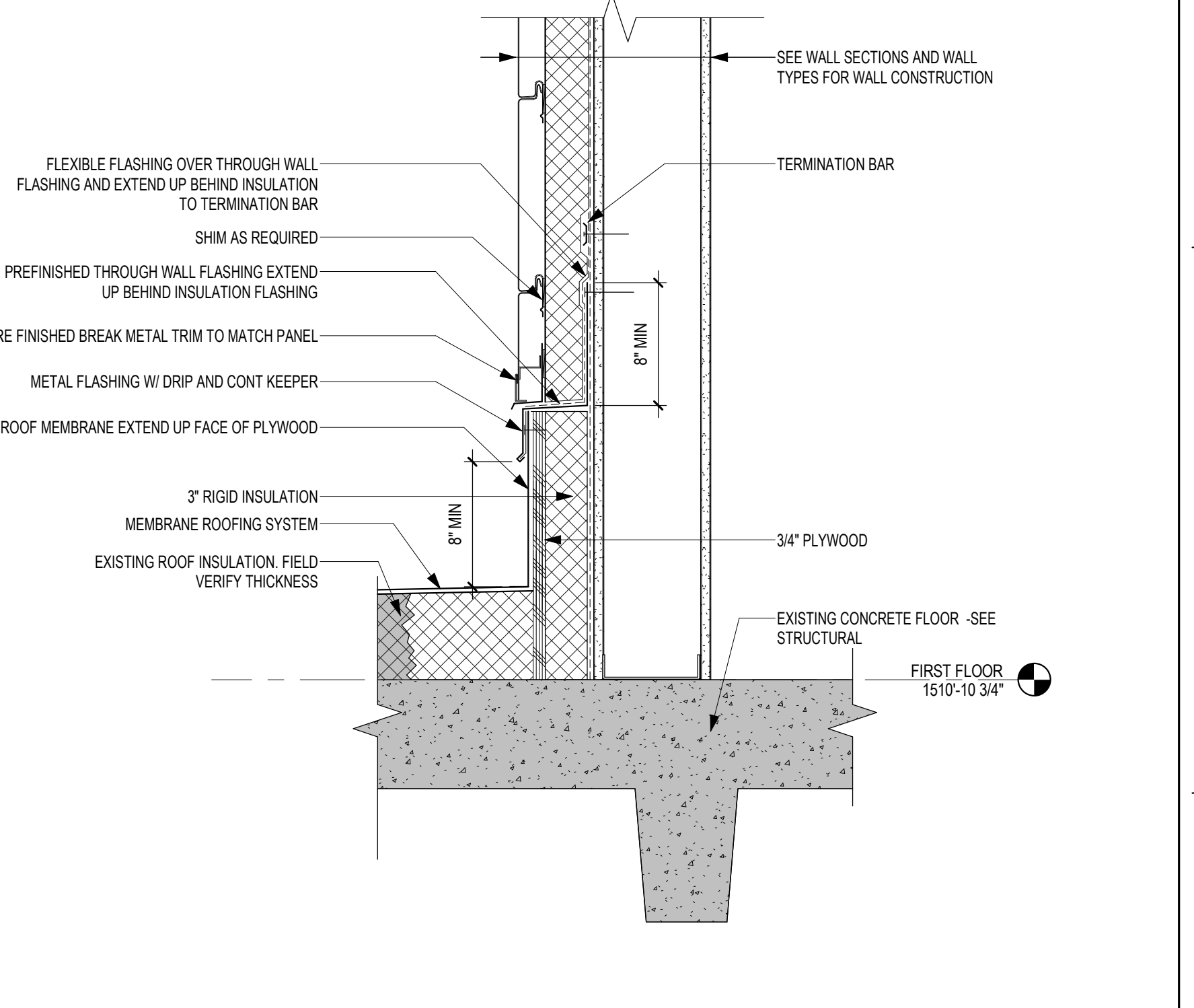
**8 EXTERIOR DOOR SILL AT ROOF WITH STEP**  
1 1/2" = 1'-0"



**7 SECTION DETAIL - METAL PANEL BASE @ WALL TYPE SM1A**  
1 1/2" = 1'-0"



**6 SECTION DETAIL - BASE VERTICAL METAL PANEL**  
1 1/2" = 1'-0"



**5 SECTION DETAIL - HORIZONTAL METAL PANEL BASE @ BLOOD DRAW**  
1 1/2" = 1'-0"

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AE PROJECT NUMBER: 14567

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Signature: *[Signature]*

Name: Tom Olesak  
Date: 01/10/2019  
License Number: 18157

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Drawing Title  
**EXTERIOR SECTION DETAILS**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

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Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

Checked  
GJB/JMT

Drawn  
GJB/JMT

Project Number  
**438-440**

Building Number  
**5**

Drawing Number  
**AE520**

A

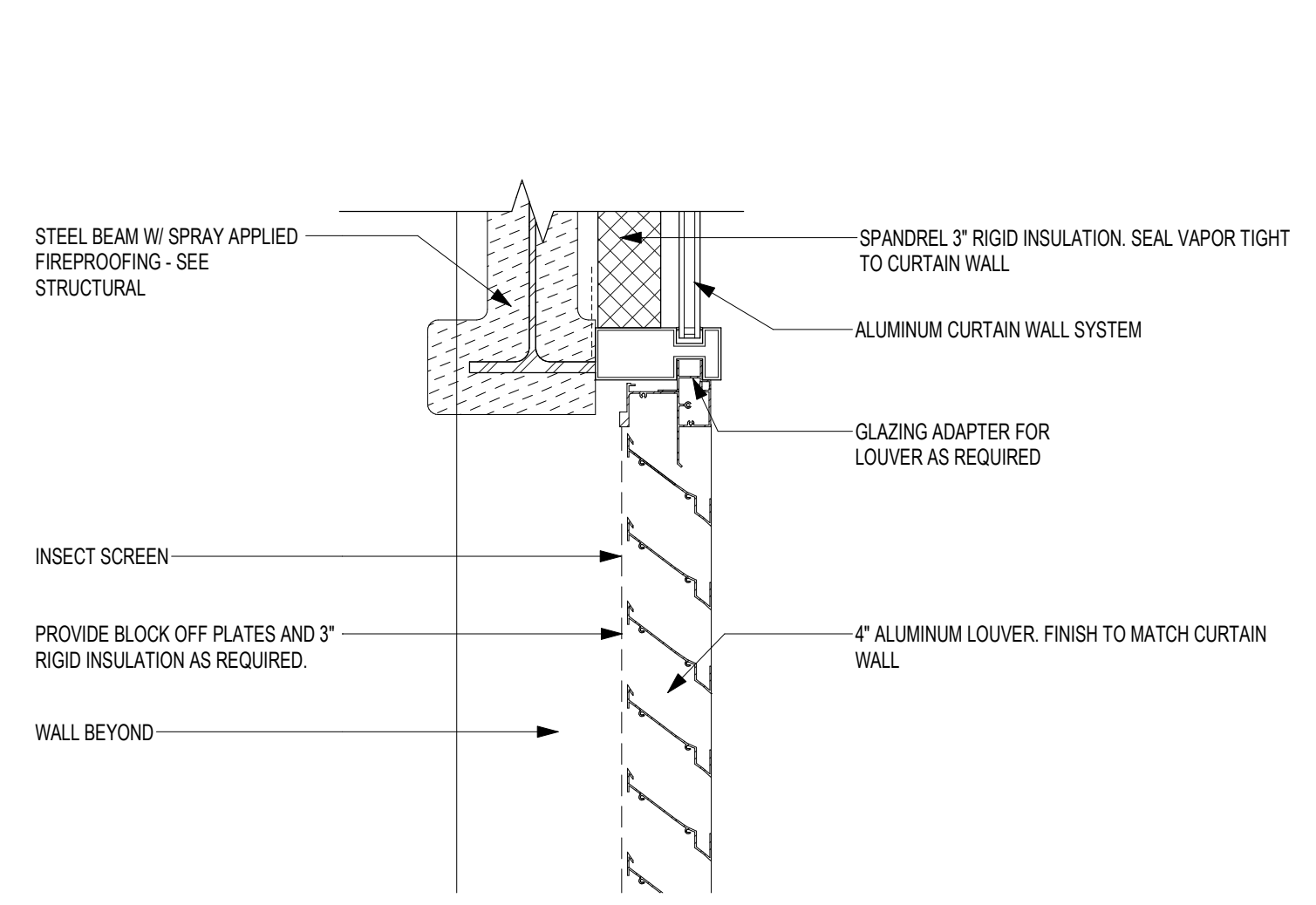
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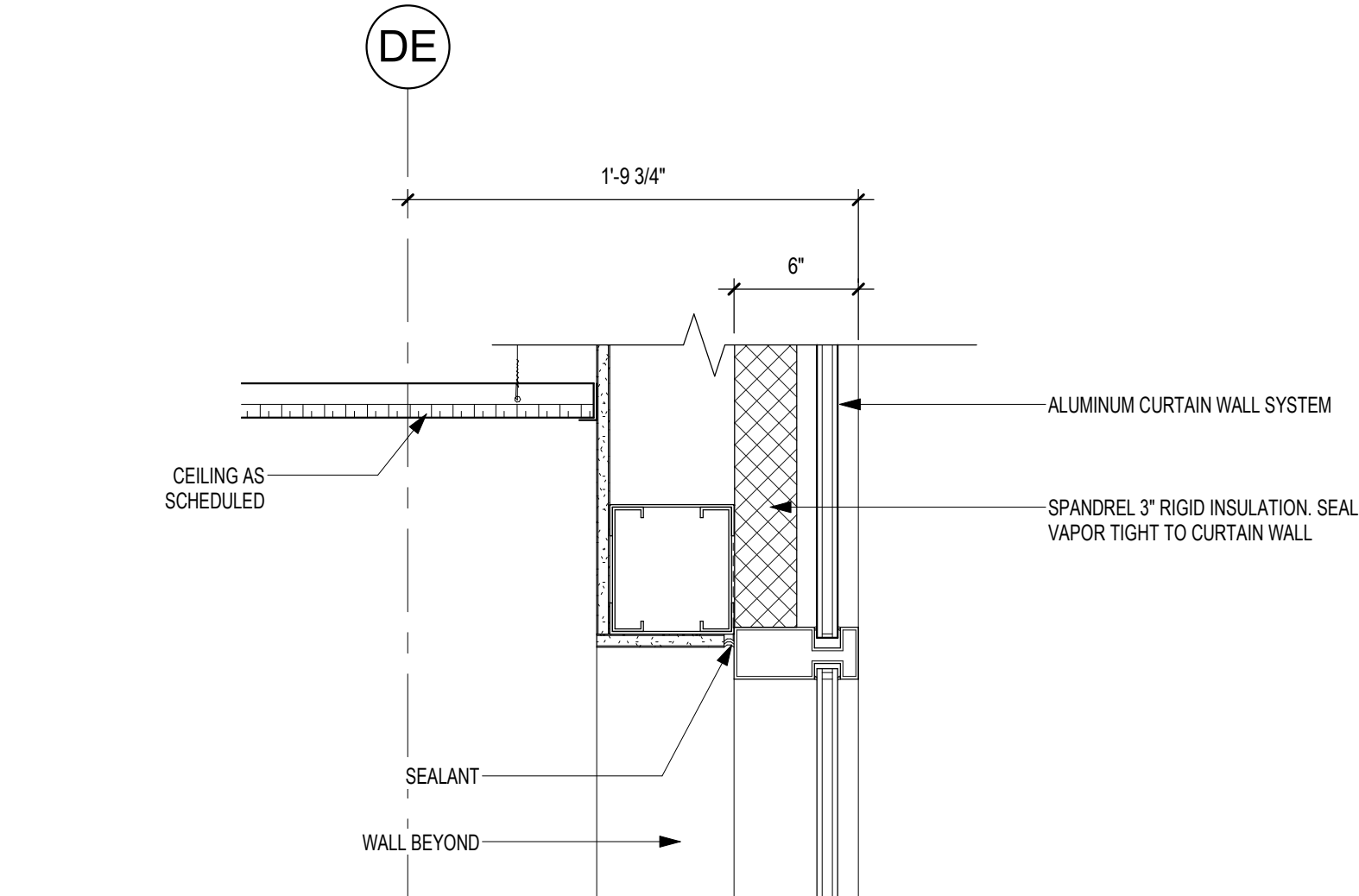
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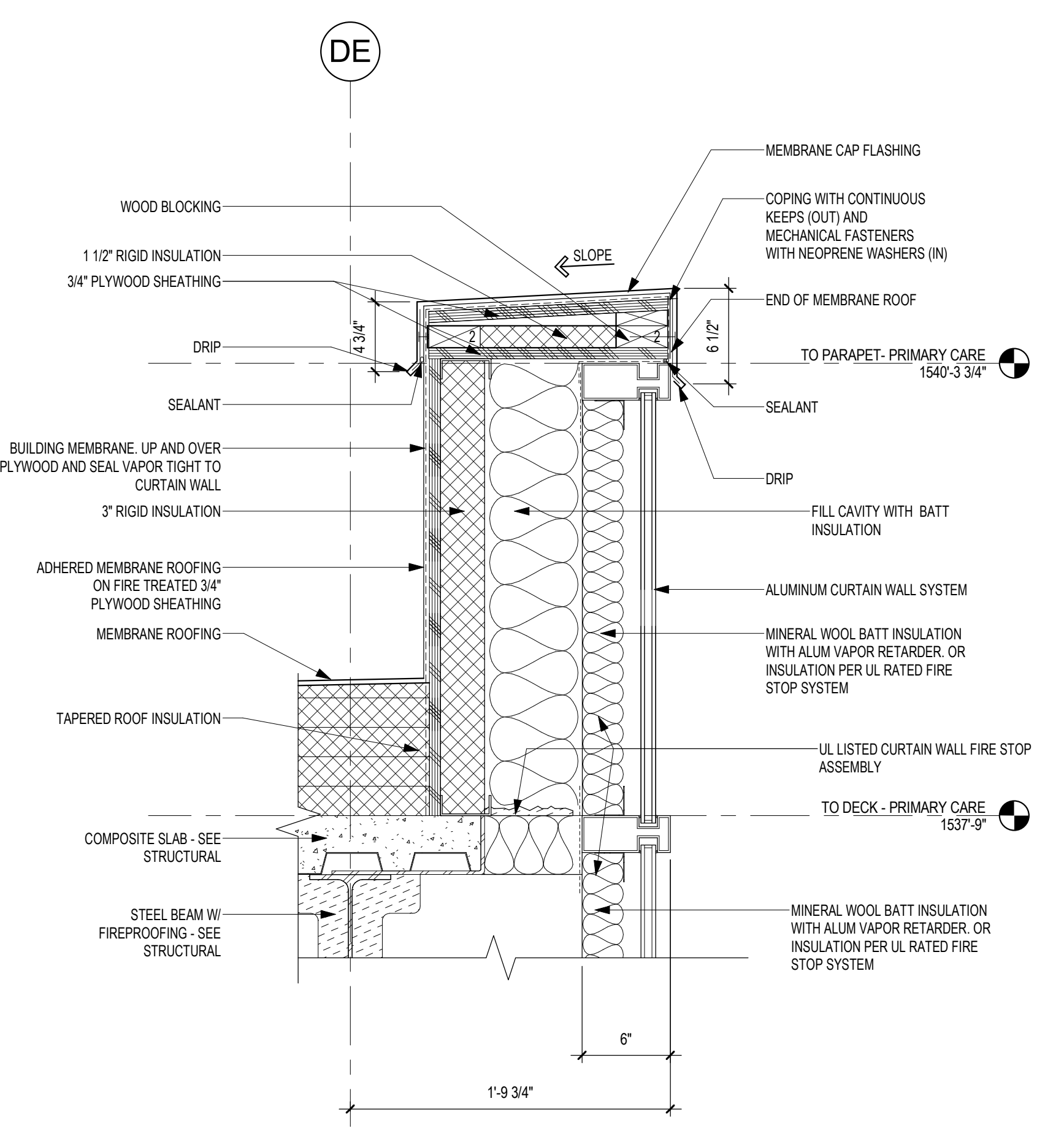
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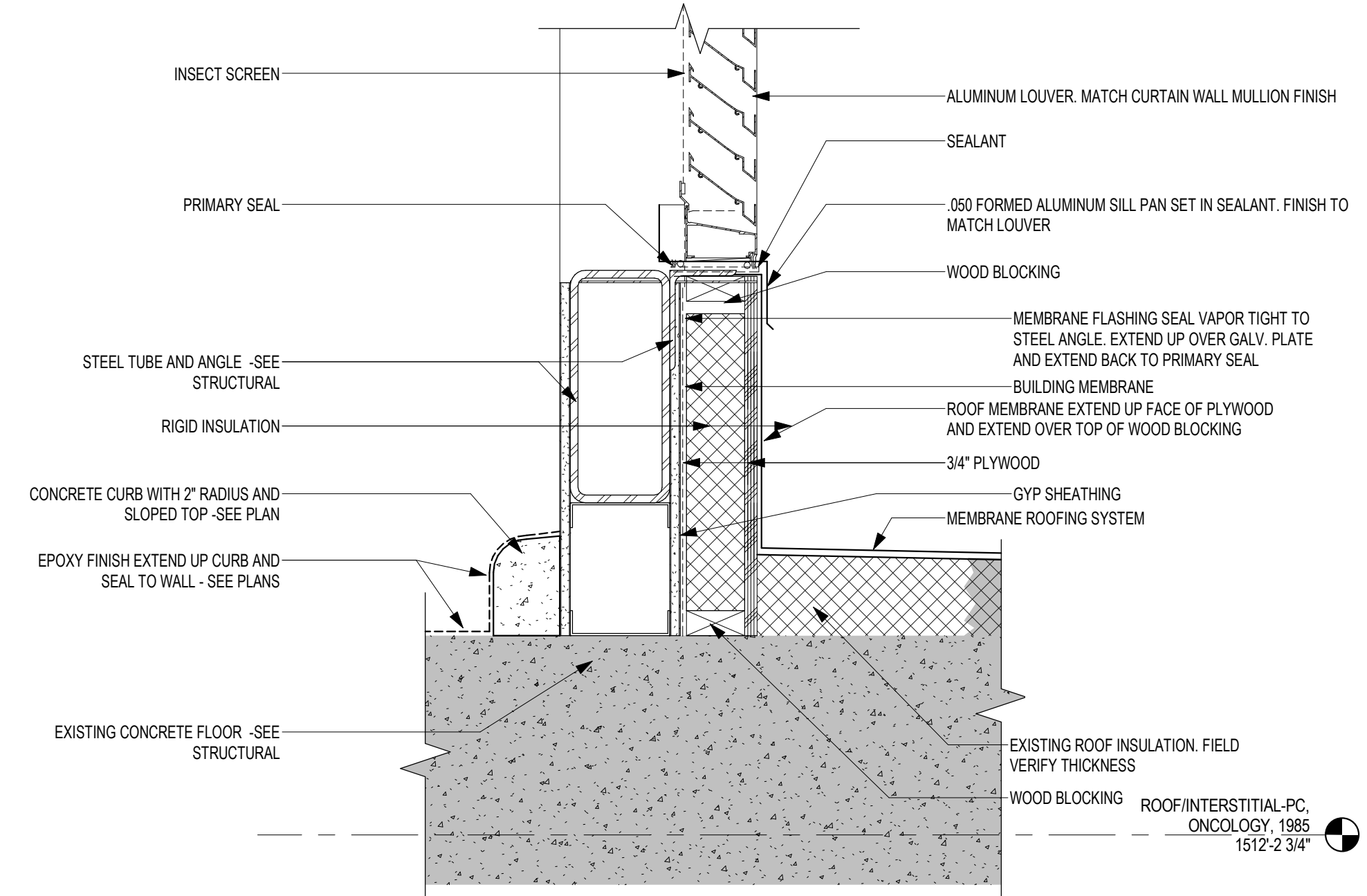
**3 SECTION DETAIL - CURTIAN WALL @ LOUVER HEAD**  
1 1/2" = 1'-0"



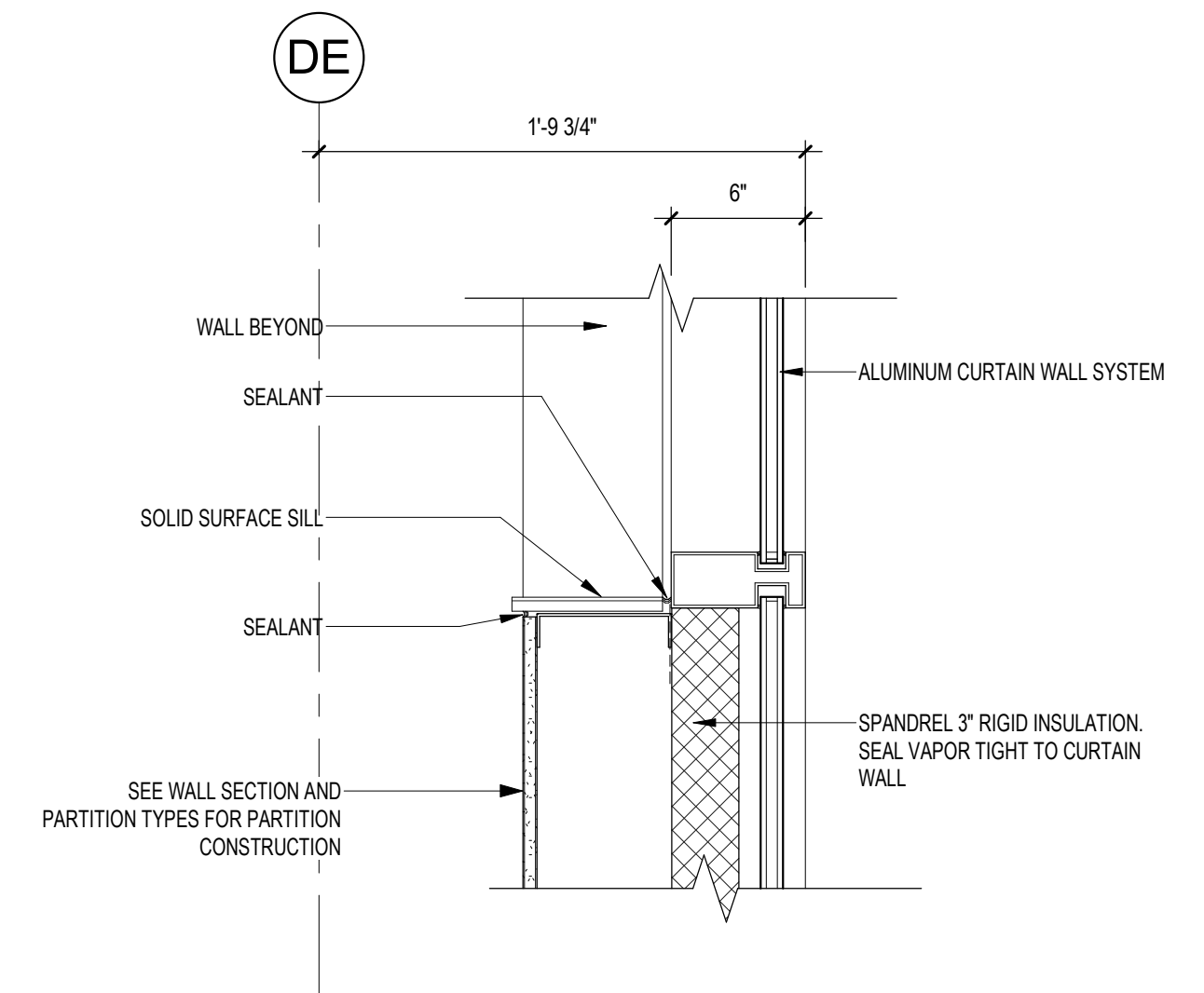
**2 SECTION DETAIL - CURTIAN WALL @ VISION GLASS HEAD**  
1 1/2" = 1'-0"



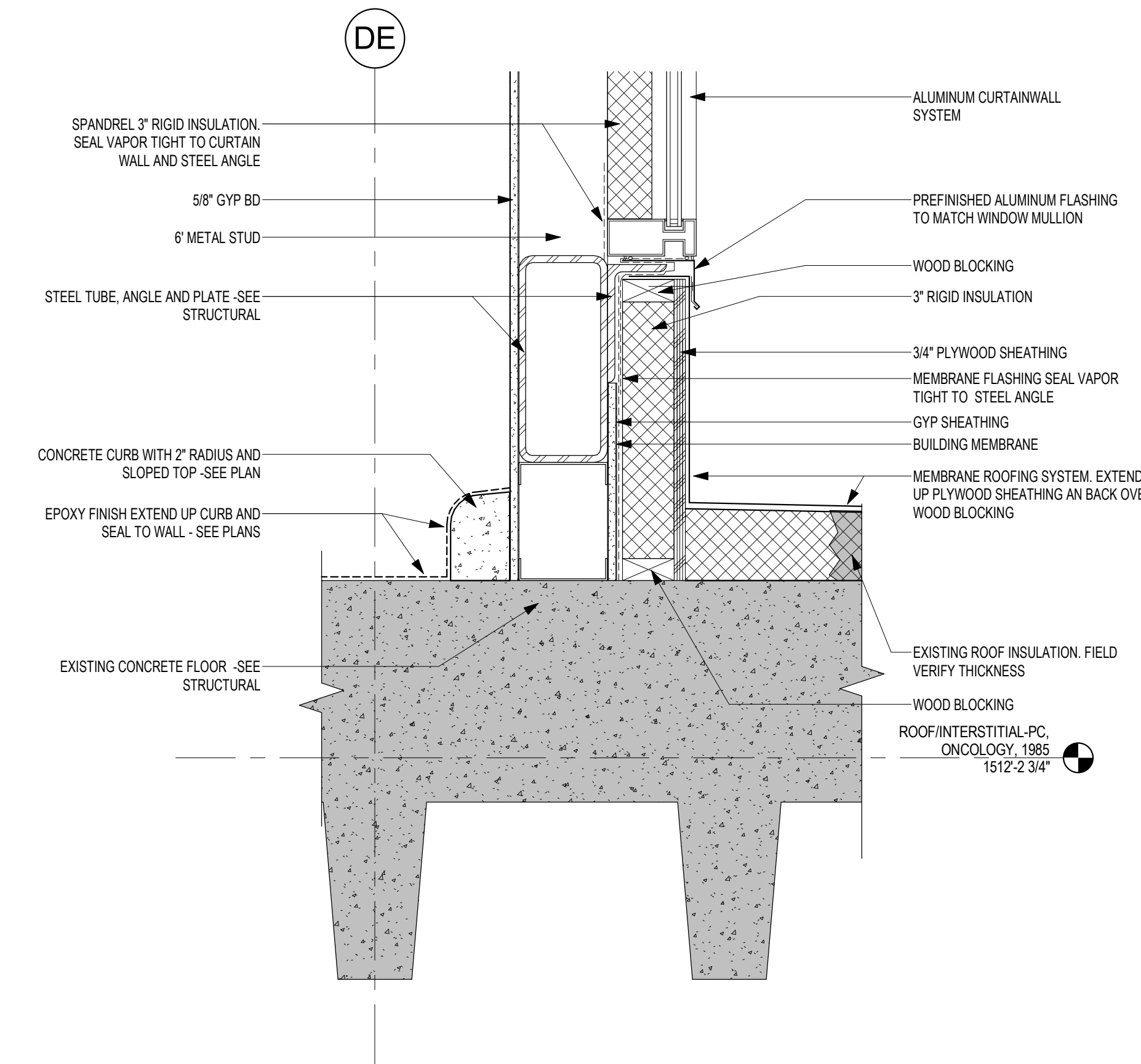
**1 SECTION DETAIL - PARAPET @ CURTIAN WALL**  
1 1/2" = 1'-0"



**6 SECTION DETAIL - LOUVER SILL @ EXISTING ROOF**  
1 1/2" = 1'-0"



**5 SECTION DETAIL - CURTIAN WALL @ VISION GLASS SILL**  
1 1/2" = 1'-0"



**4 SECTION DETAIL - CURTIAN WALL @ EXISTING ROOF**  
1 1/2" = 1'-0"

1/31/2019 1:38:38 PM C:\\_Revit\Projects\1697\VA\_SIOUX FALLS LAB ADDITION\2017\_gbarbani@ae-mn.com.rvt

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AE PROJECT NUMBER: 14567

**STAMP**

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of Minnesota.

Signature: *[Signature]*

Name: Tom Olesak  
Date: 01/10/2019  
License Number: 18157

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title  
**EXTERIOR SECTION DETAILS**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

FULLY SPRINKLERED

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

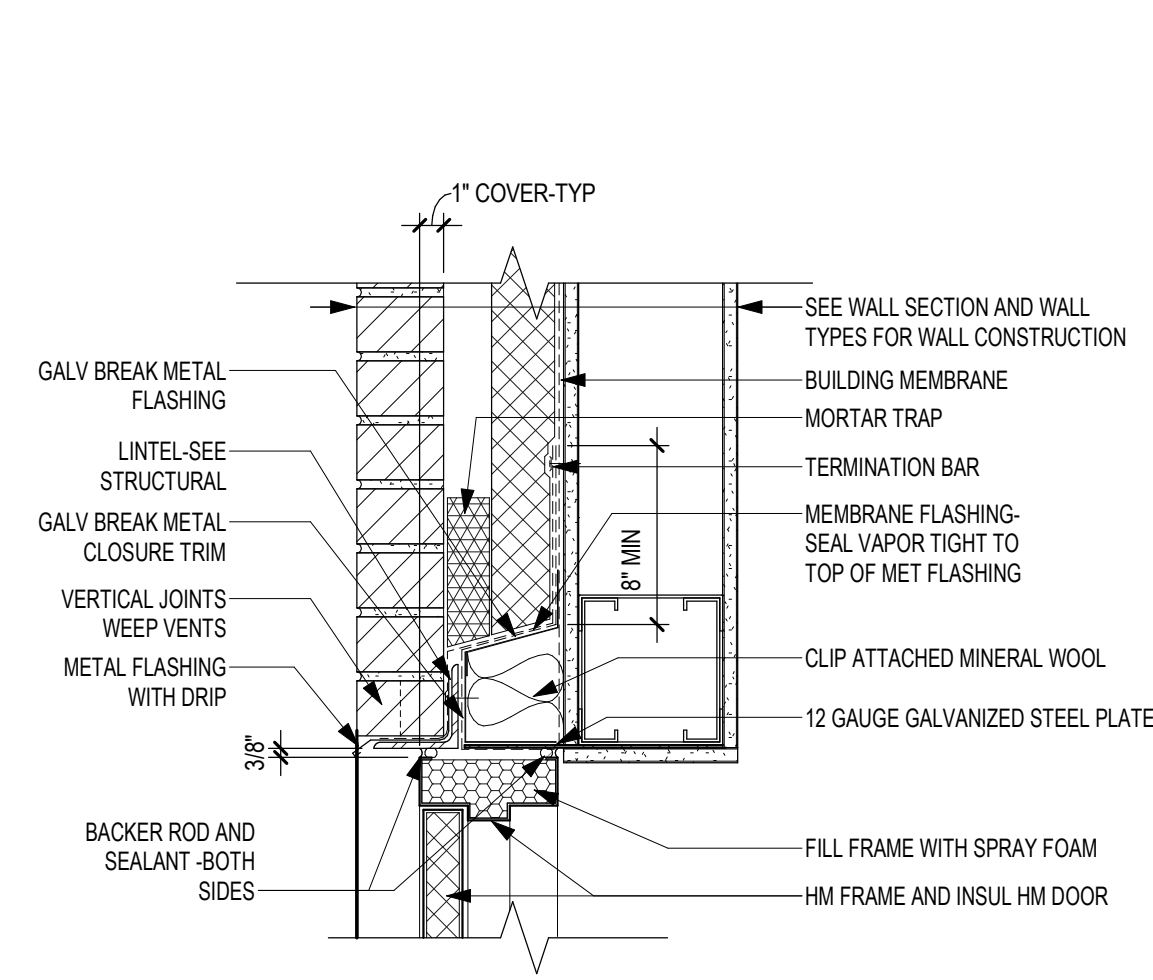
Checked  
GJB

Drawn  
GJB

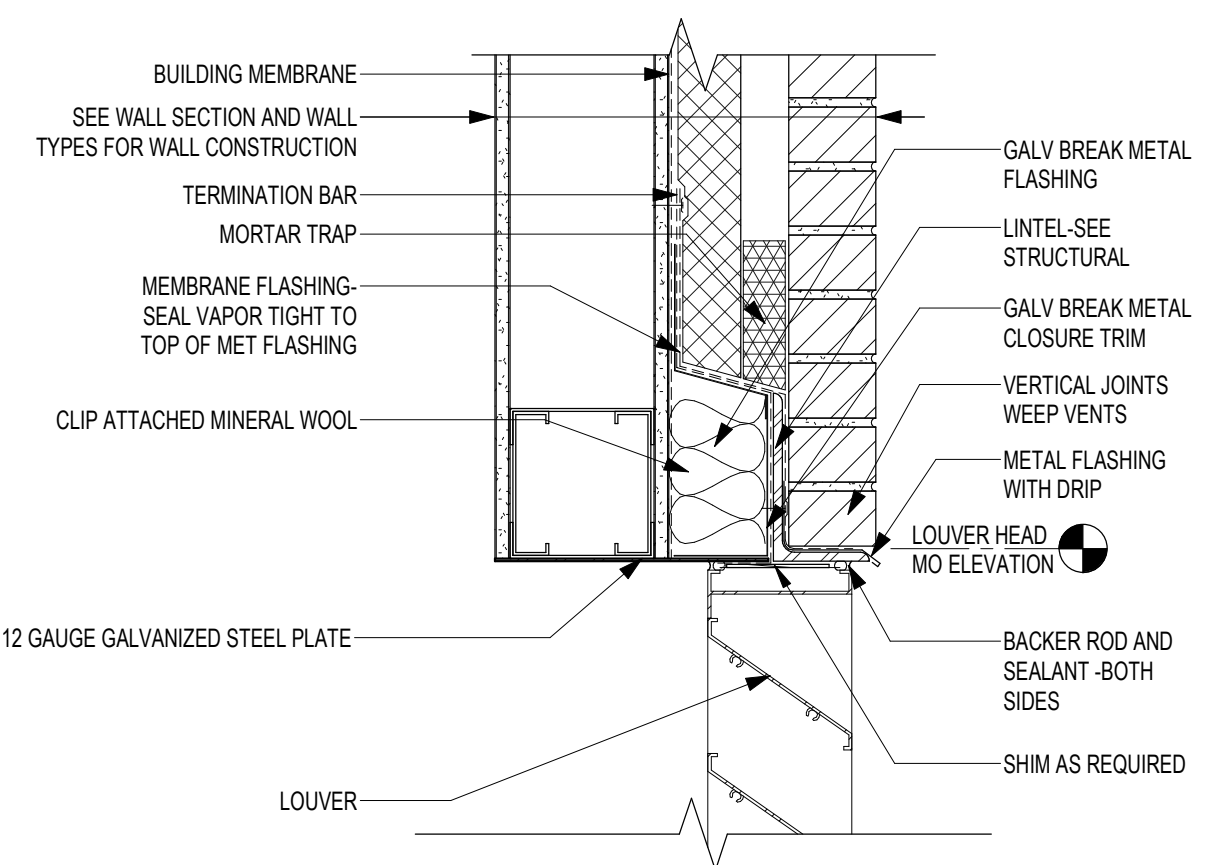
Project Number  
**438-440**

Building Number  
**5**

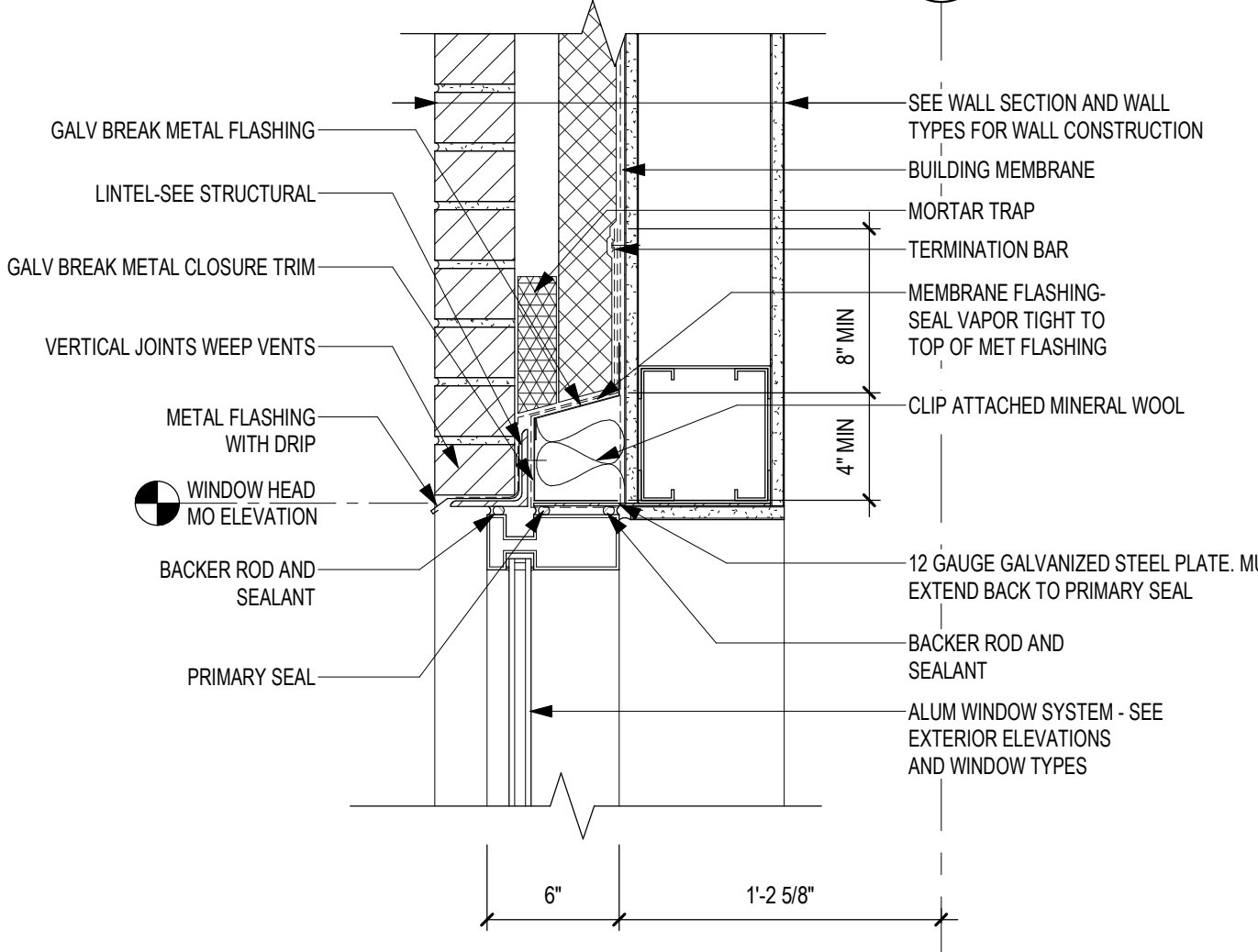
Drawing Number  
**AE521**



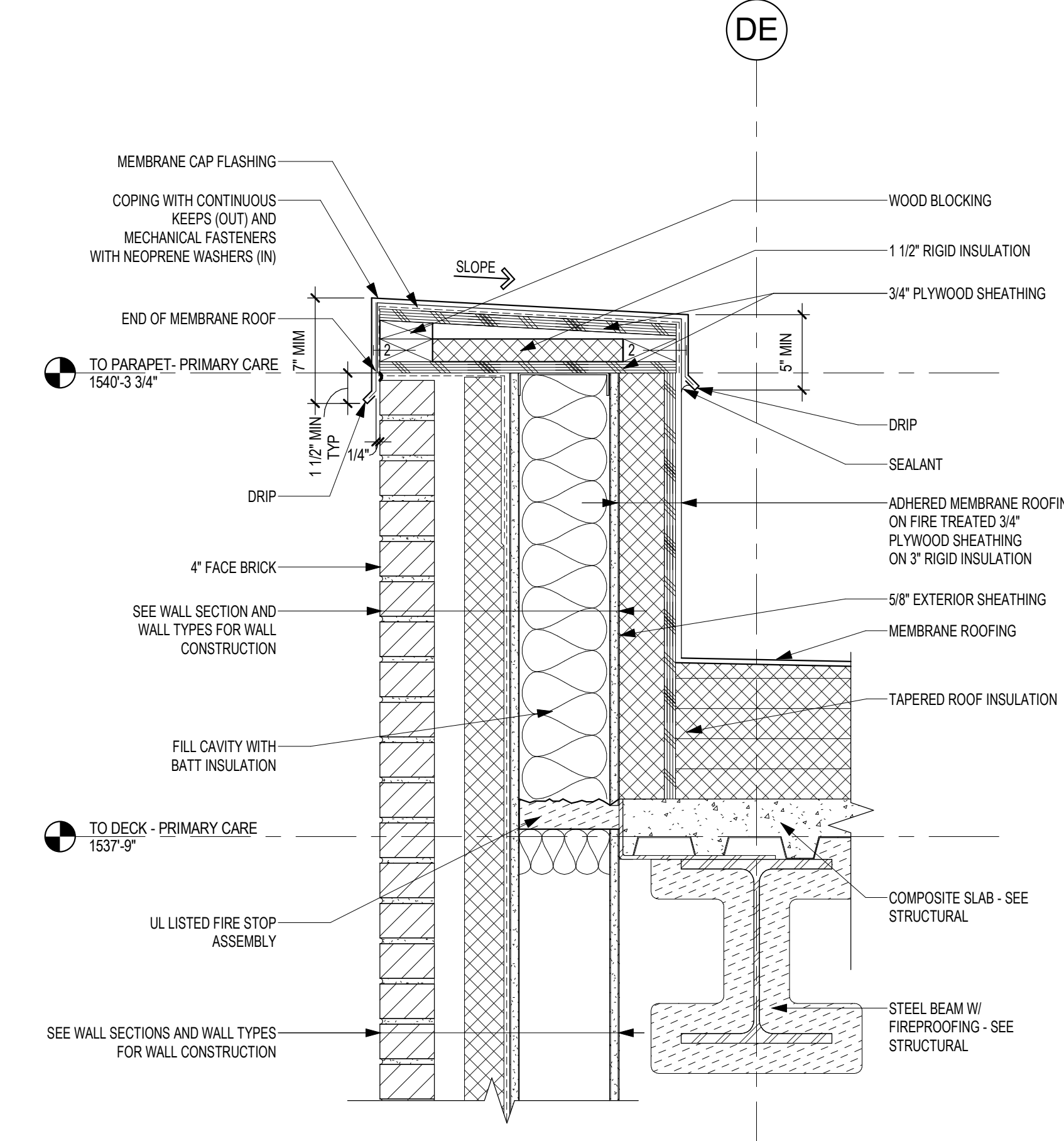
9 DETAIL - HM FRAME HEAD AT METAL STUD BACK UP AND FACEBRICK  
1 1/2" = 1'-0"



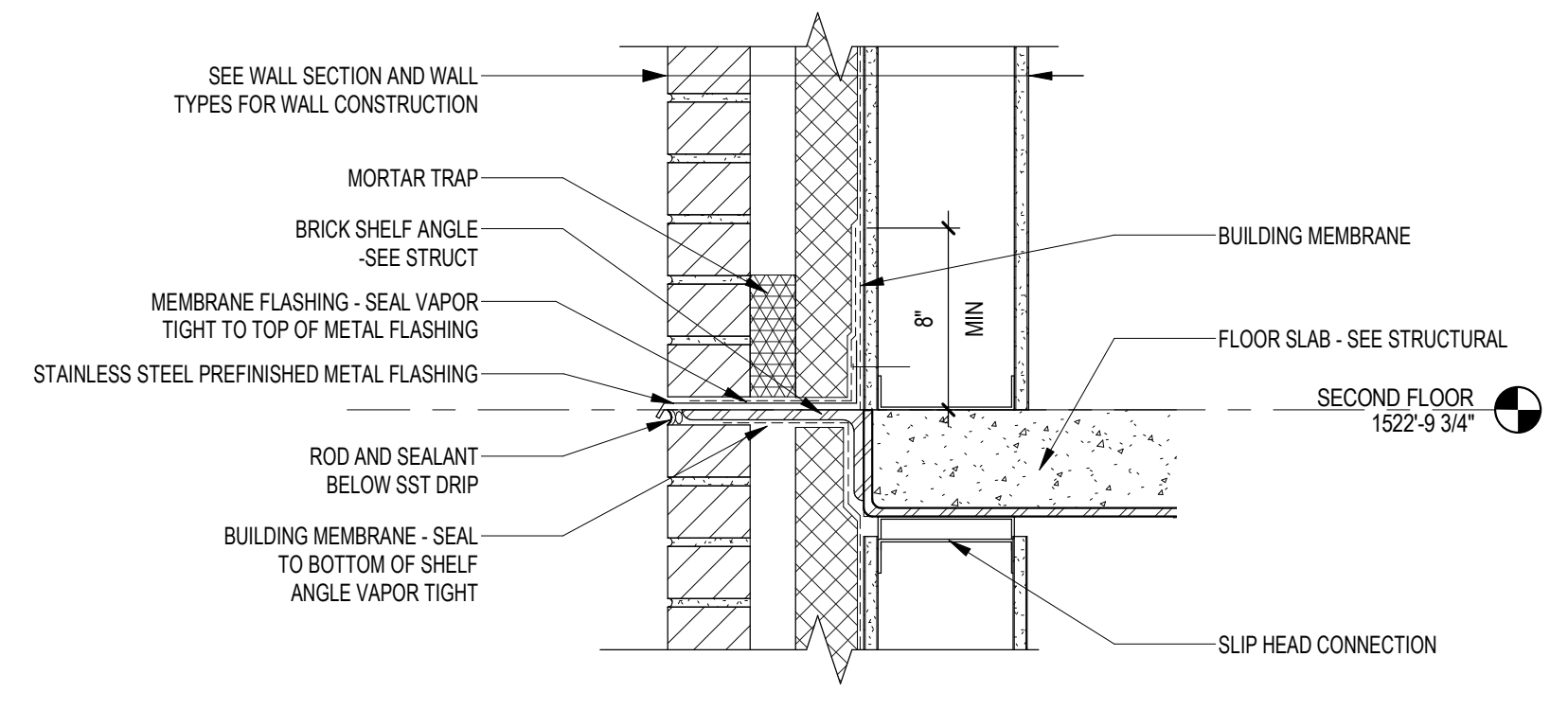
6 SECTION DETAIL - LONG LOUVER HEAD @ BRICK (DEDUCT ALTERNATE)  
1 1/2" = 1'-0"



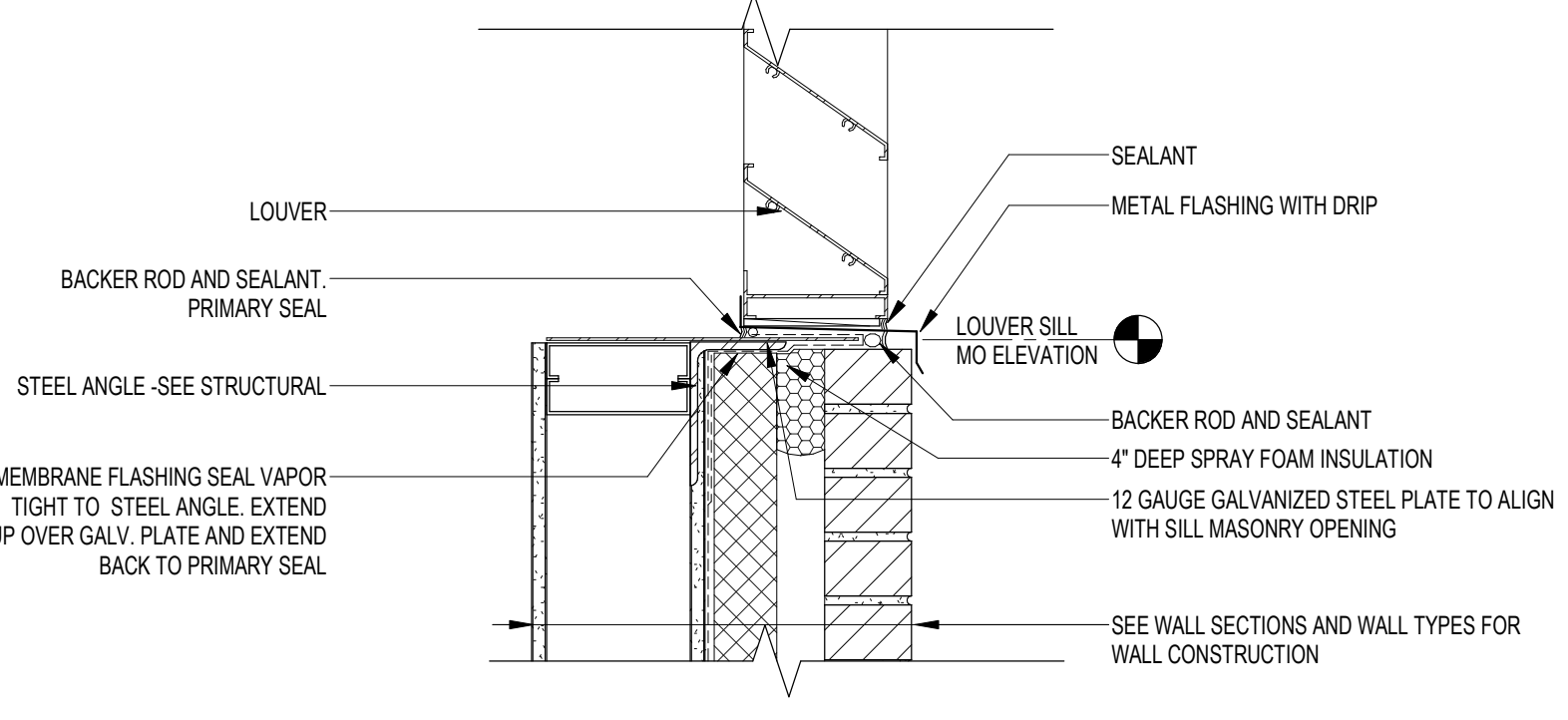
3 SECTION DETAIL - WINDOW HEAD @ BRICK (TYP)  
1 1/2" = 1'-0"



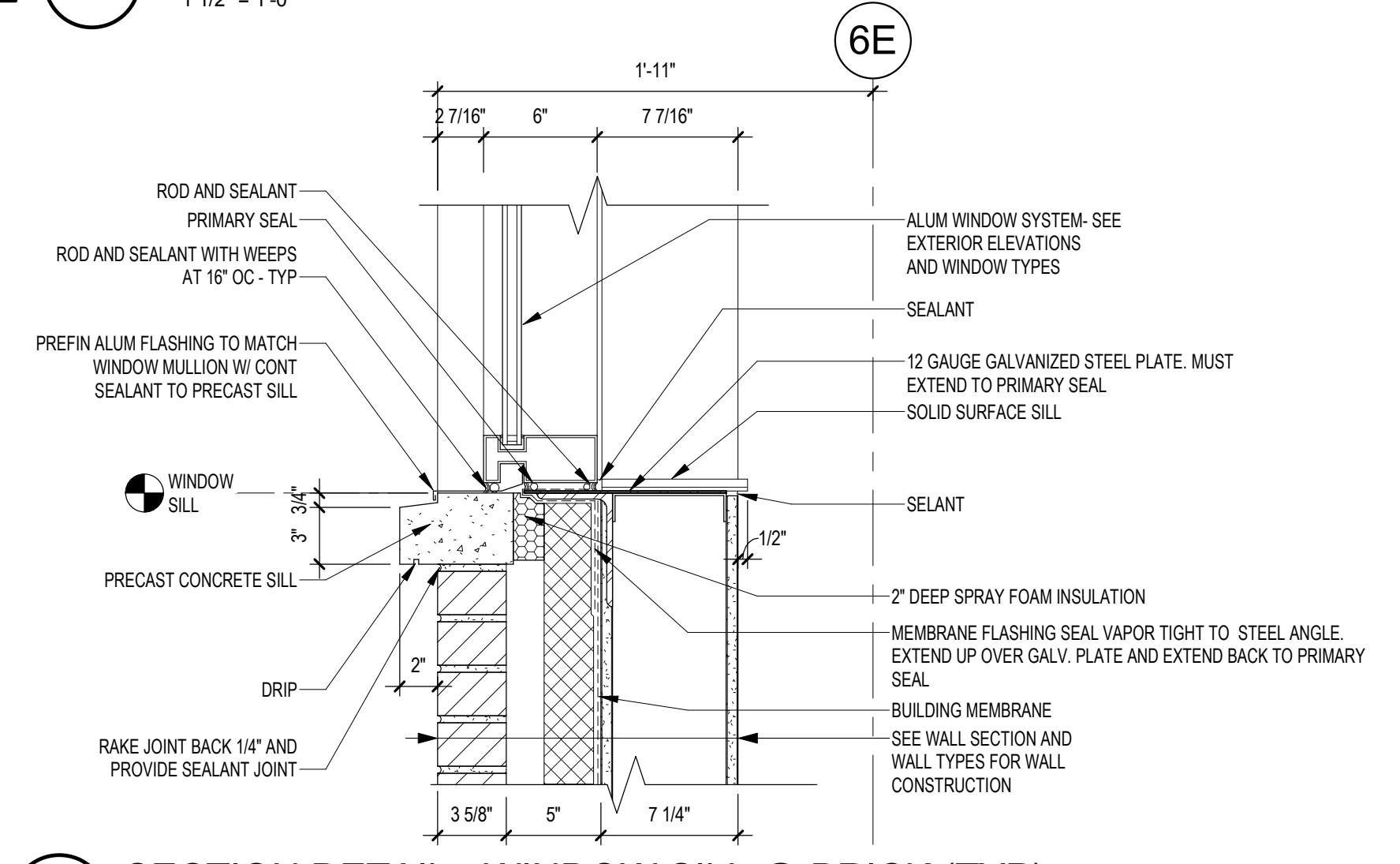
1 SECTION DETAIL - PARAPET AT BRICK WALL (TYP)  
1 1/2" = 1'-0"



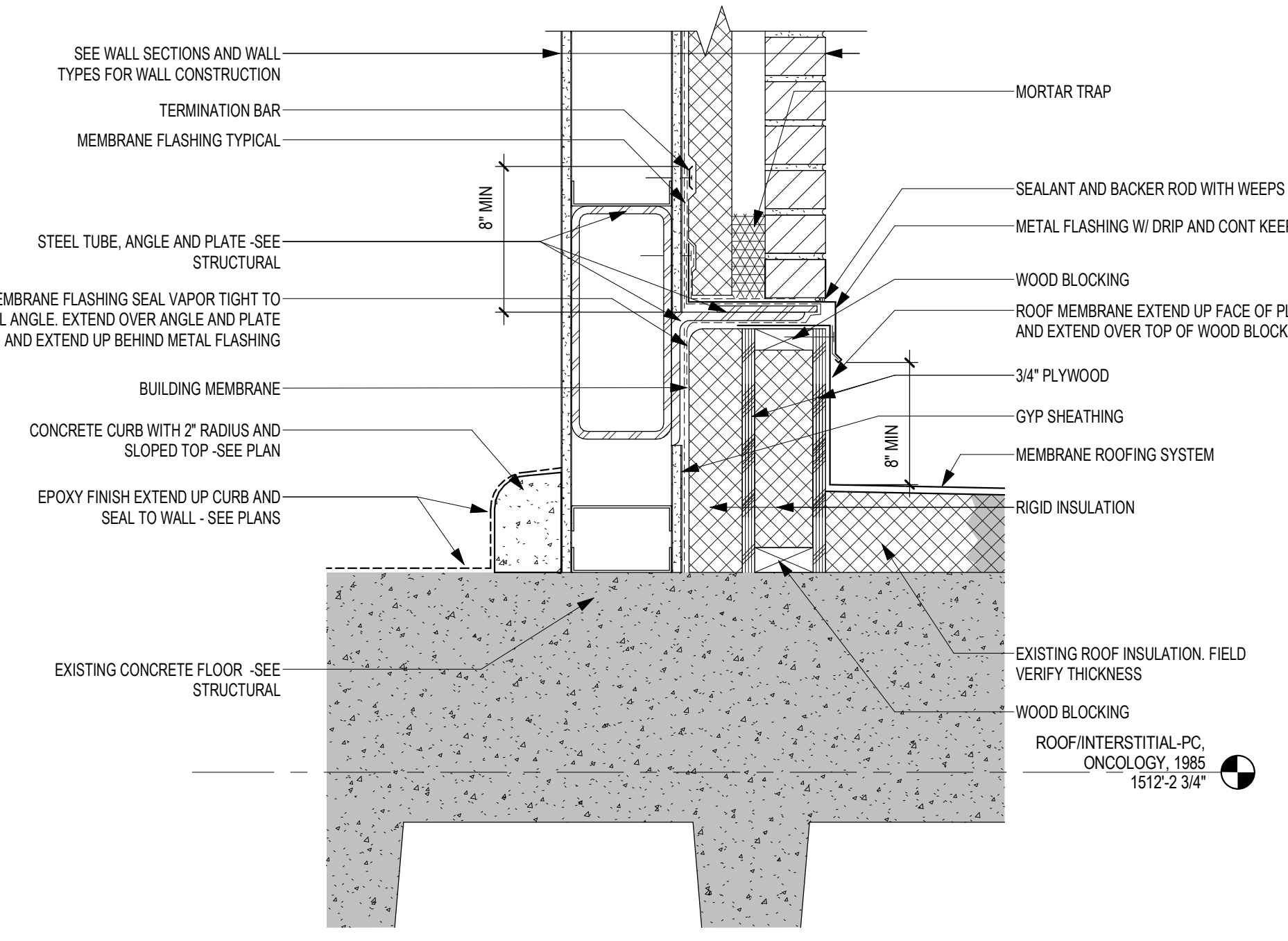
10 DETAIL - BRICK SHELF ANGLE AT SECOND FLOOR  
1 1/2" = 1'-0"



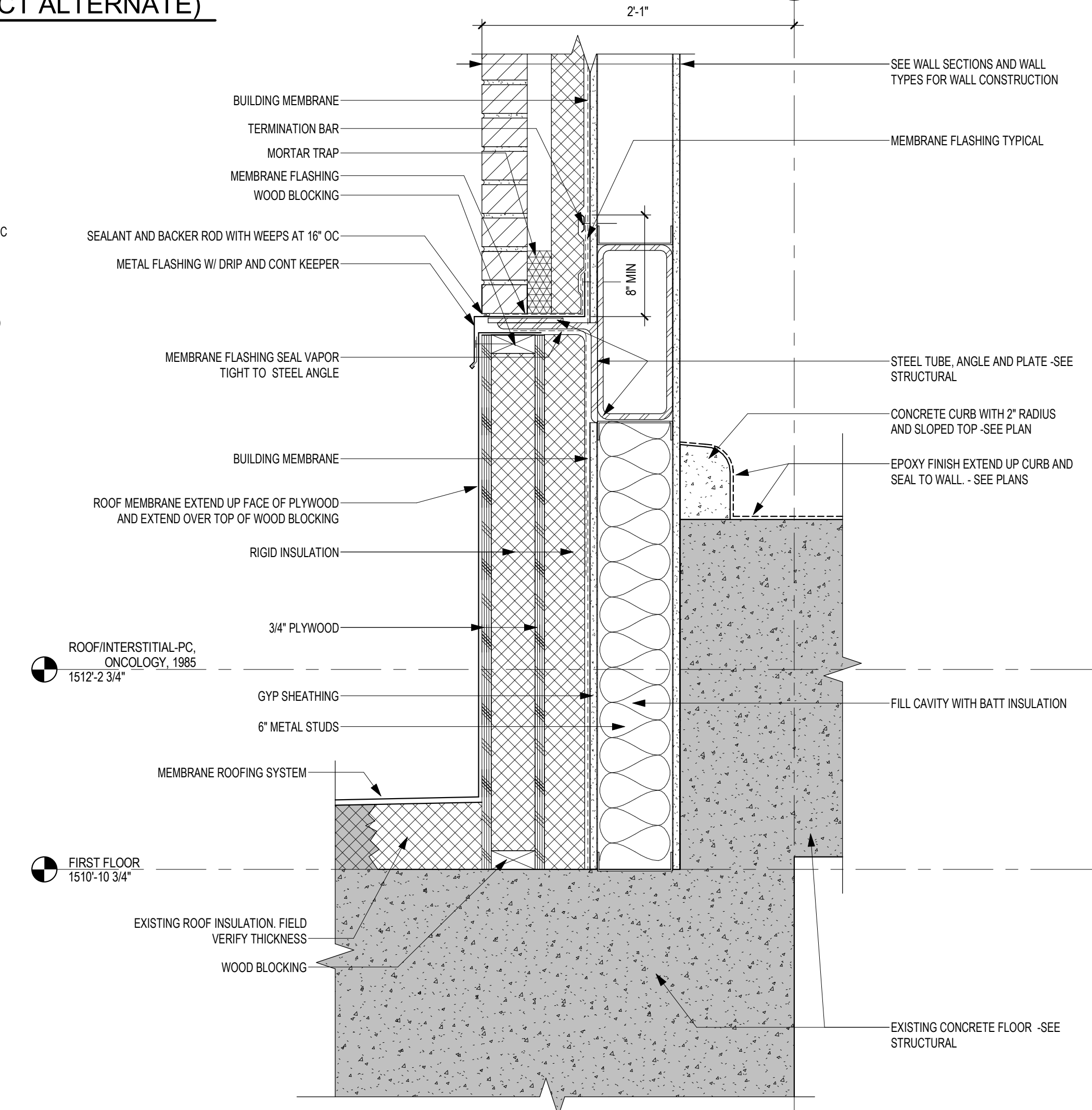
7 SECTION DETAIL - LOUVER SILL @ BRICK (DEDUCT ALTERNATE)  
1 1/2" = 1'-0"



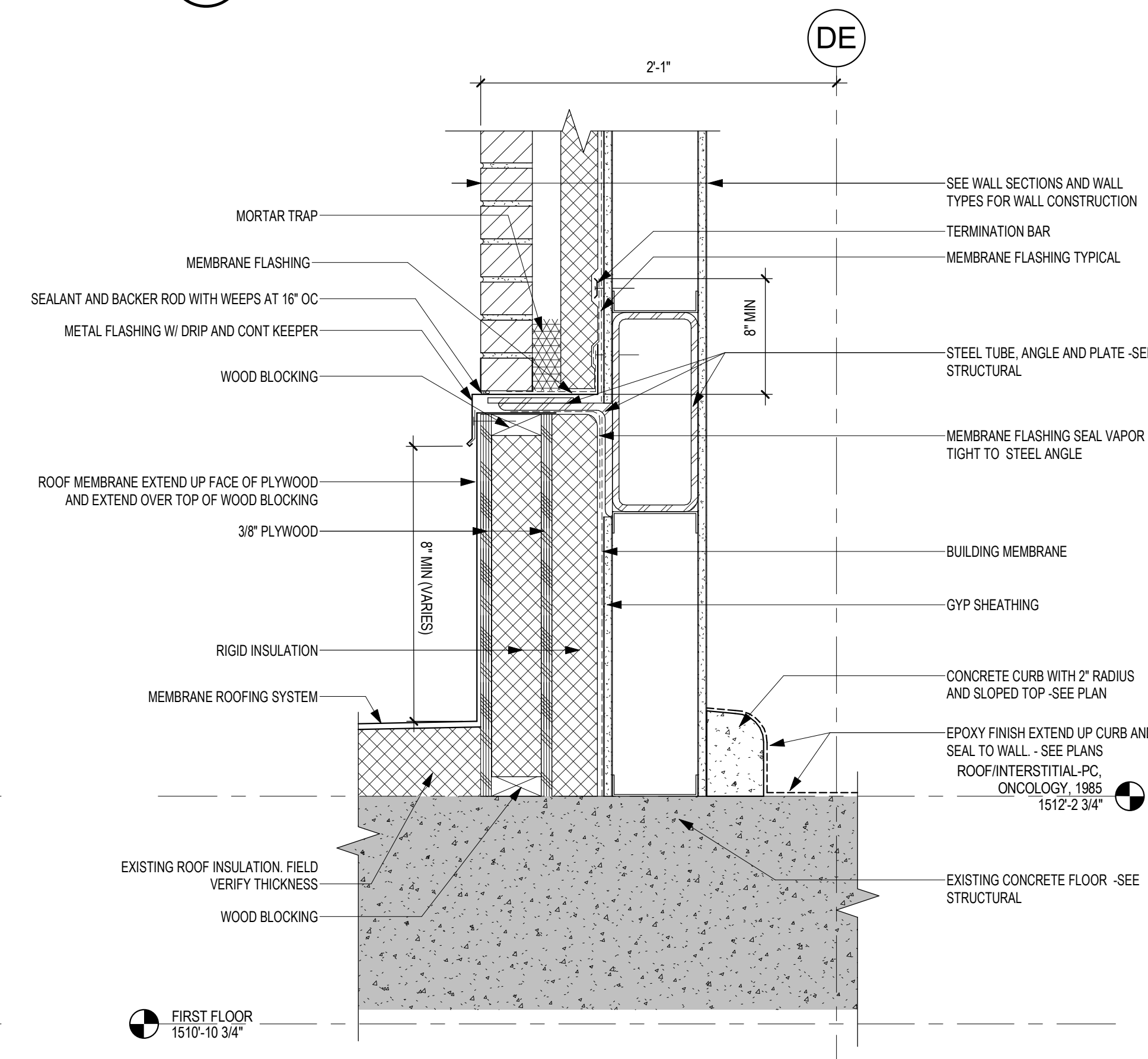
4 SECTION DETAIL - WINDOW SILL @ BRICK (TYP)  
1 1/2" = 1'-0"



8 SECTION DETAIL - BASE OF BRICK WALL @ HIGH ROOF  
1 1/2" = 1'-0"



5 SECTION DETAIL - BASE OF BRICK WALL @ LOW ROOF  
1 1/2" = 1'-0"



2 SECTION DETAIL - BASE OF BRICK WALL AT EXISTING ROOF (TYP)  
1 1/2" = 1'-0"

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Signature: *Tom Olesak*

Name: Tom Olesak  
Date: 01/10/2019  
License Number: 18157

Office of  
Construction  
and Facilities  
Management

**VA** U.S. Department  
of Veterans  
Affairs

Drawing Title  
**EXTERIOR SECTION DETAILS**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

FULLY SPRINKLERED

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

Checked

Drawn  
GJB/JMT

Project Number  
**438-440**

Building Number  
**5**

Drawing Number  
**AE522**

A

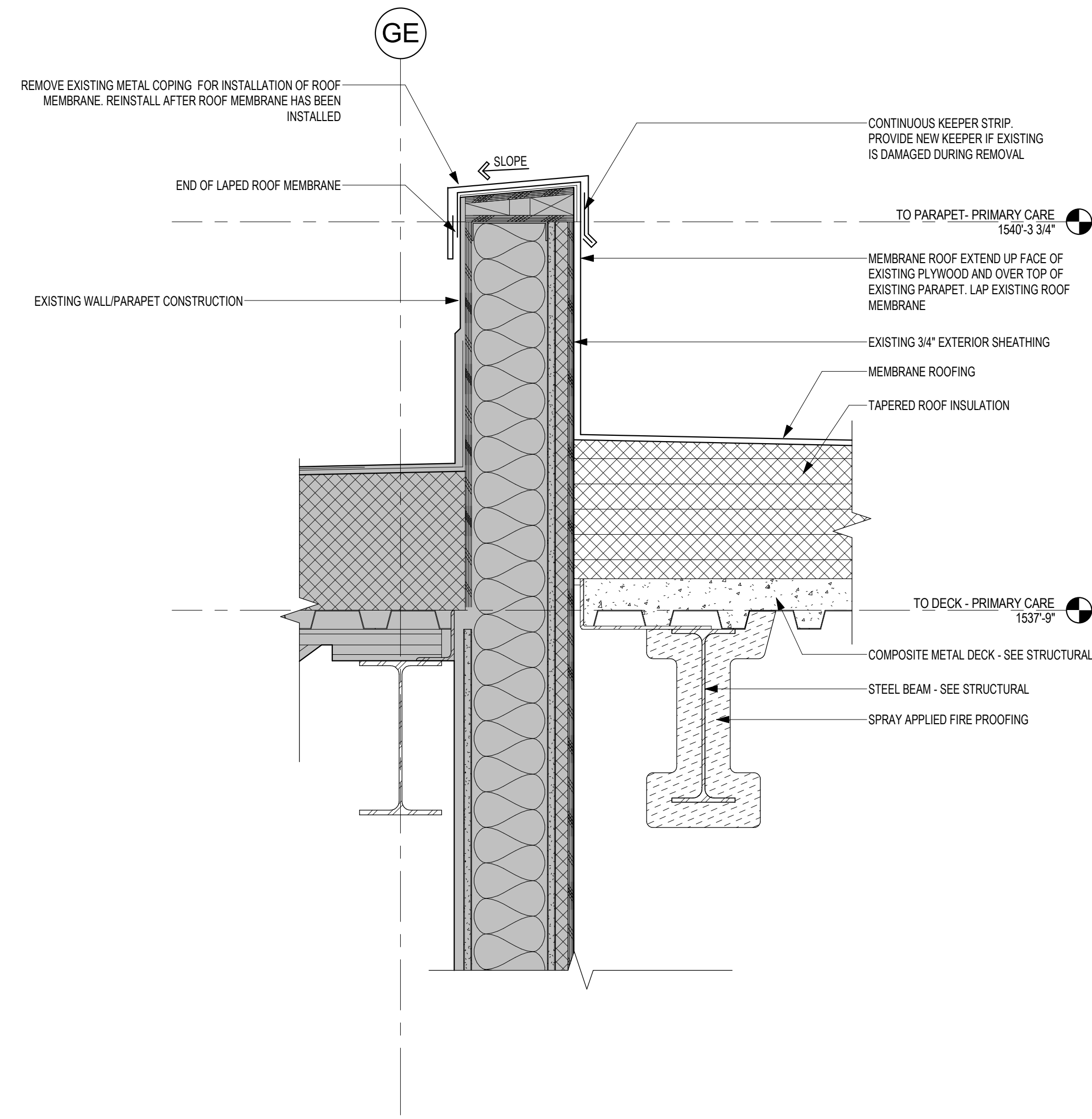
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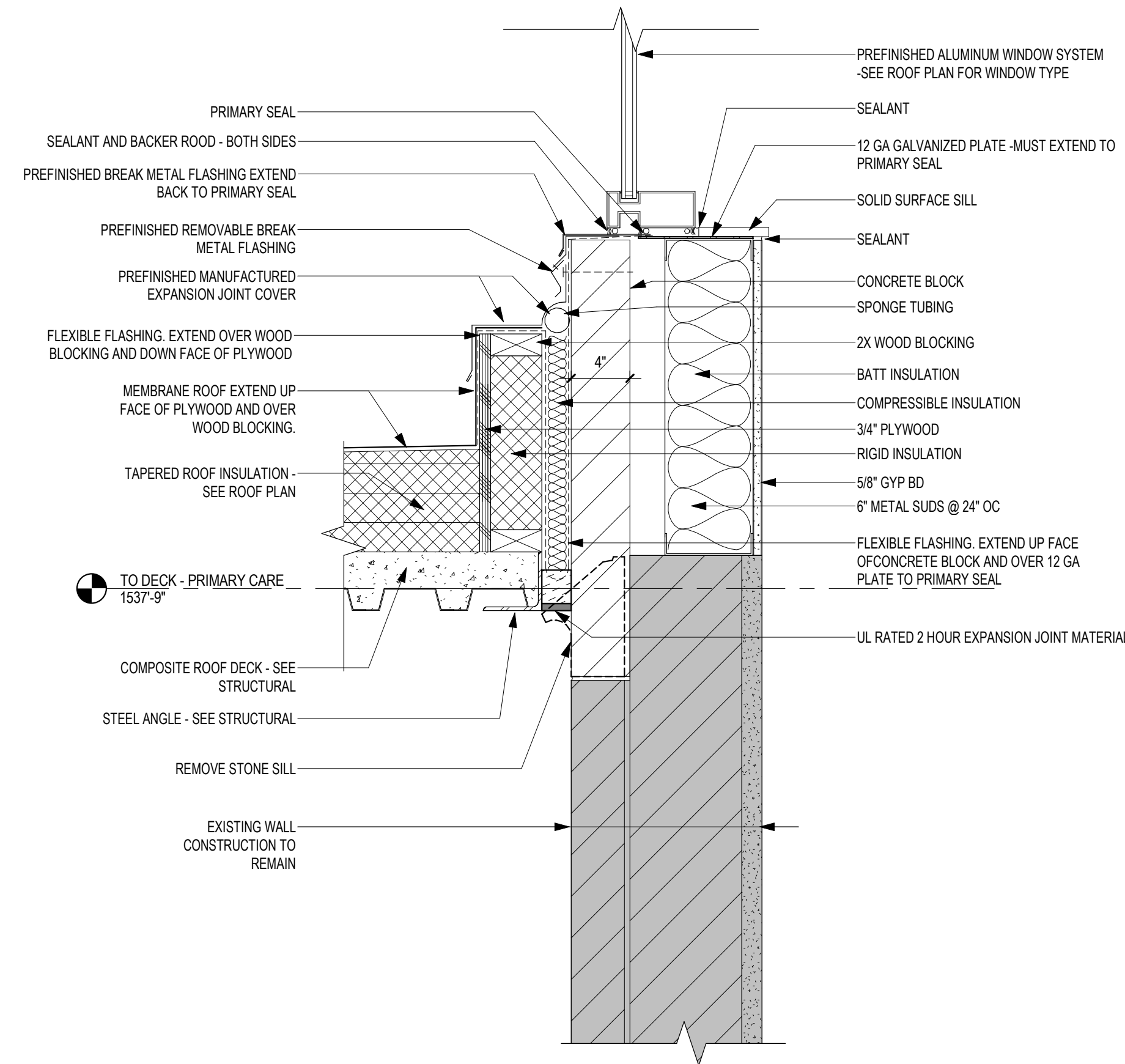
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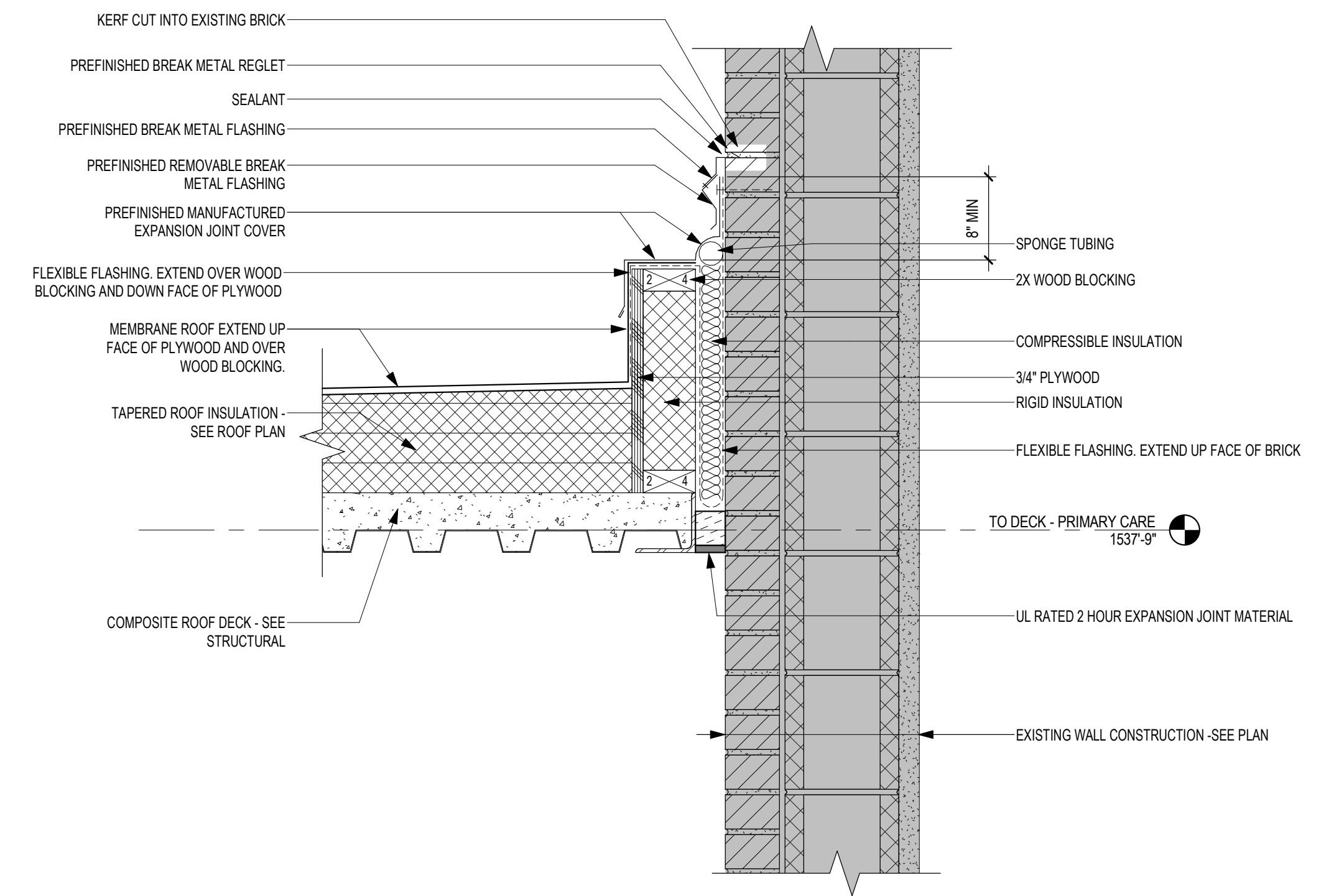
F



3 SECTION DETAIL - MEMBRANE ROOF @ EXISTING METAL SHINGLE  
1 1/2" = 1'-0"



2 SECTION DETAIL - MEMBRANE ROOF @ EXP JOINT & WINDOW INFILL  
1 1/2" = 1'-0"



1 SECTION DETAIL - MEMBRANE ROOF @ EXISTING BRICK  
1 1/2" = 1'-0"

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**VA** U.S. Department  
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Drawing Title  
**ROOF DETAILS**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

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Drawn  
GJB/JMT

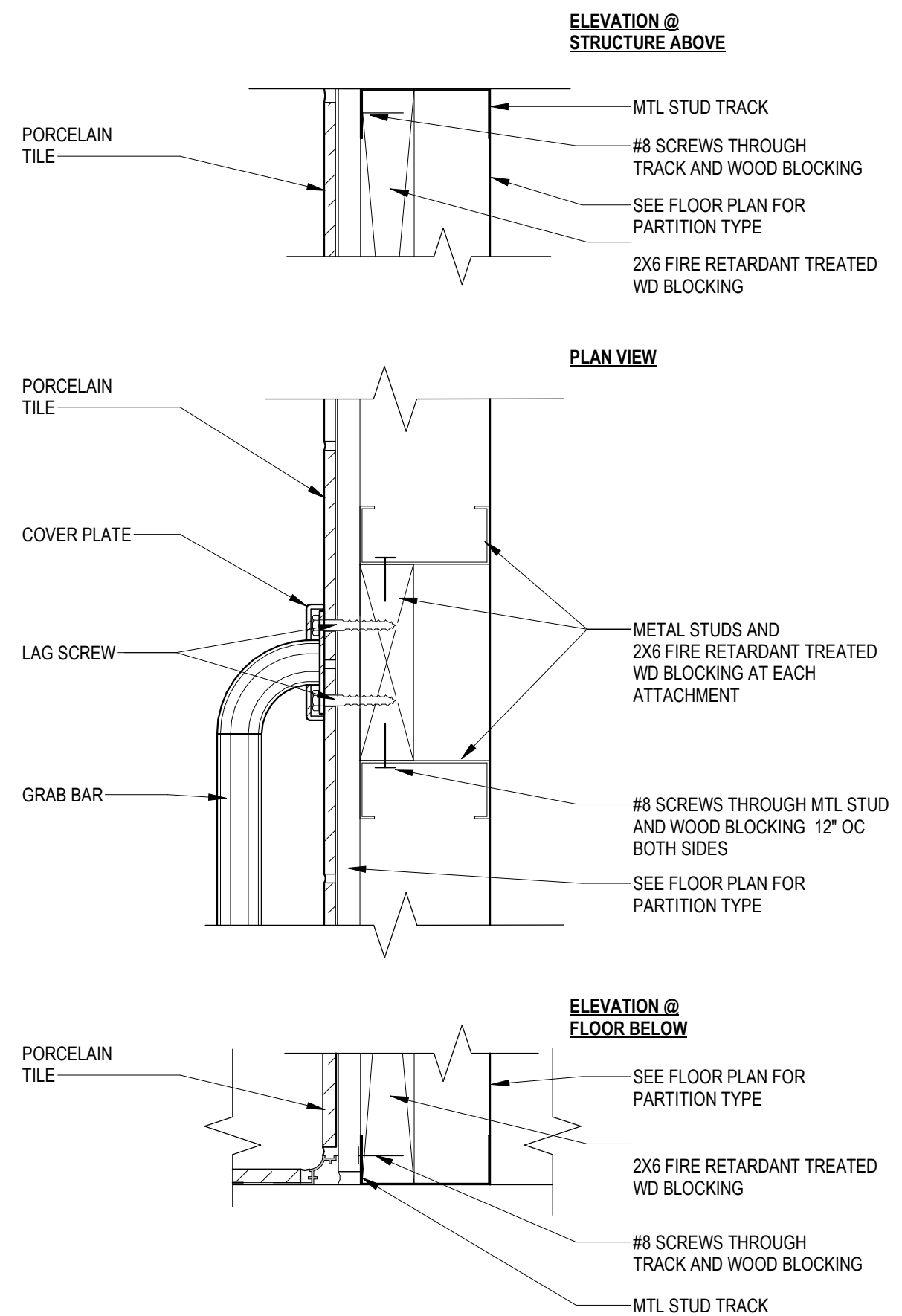
Project Number  
**438-440**

Building Number  
**5**

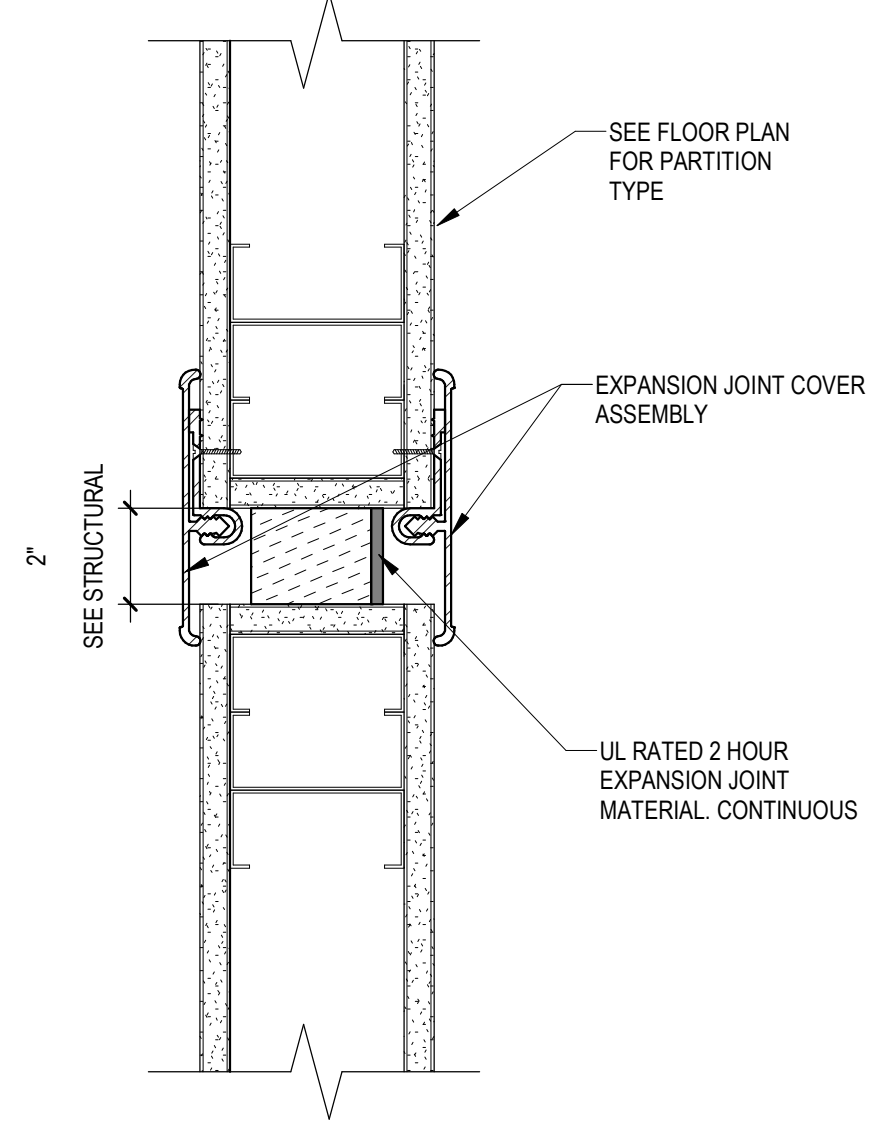
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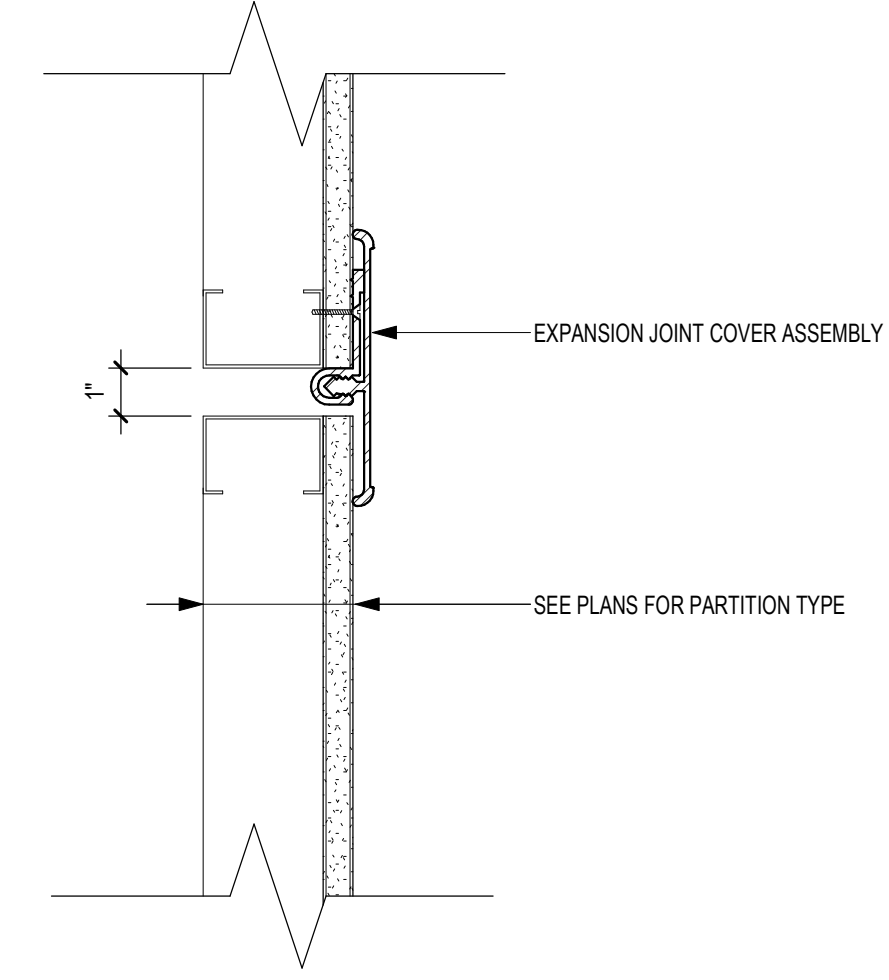
A  
B  
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F



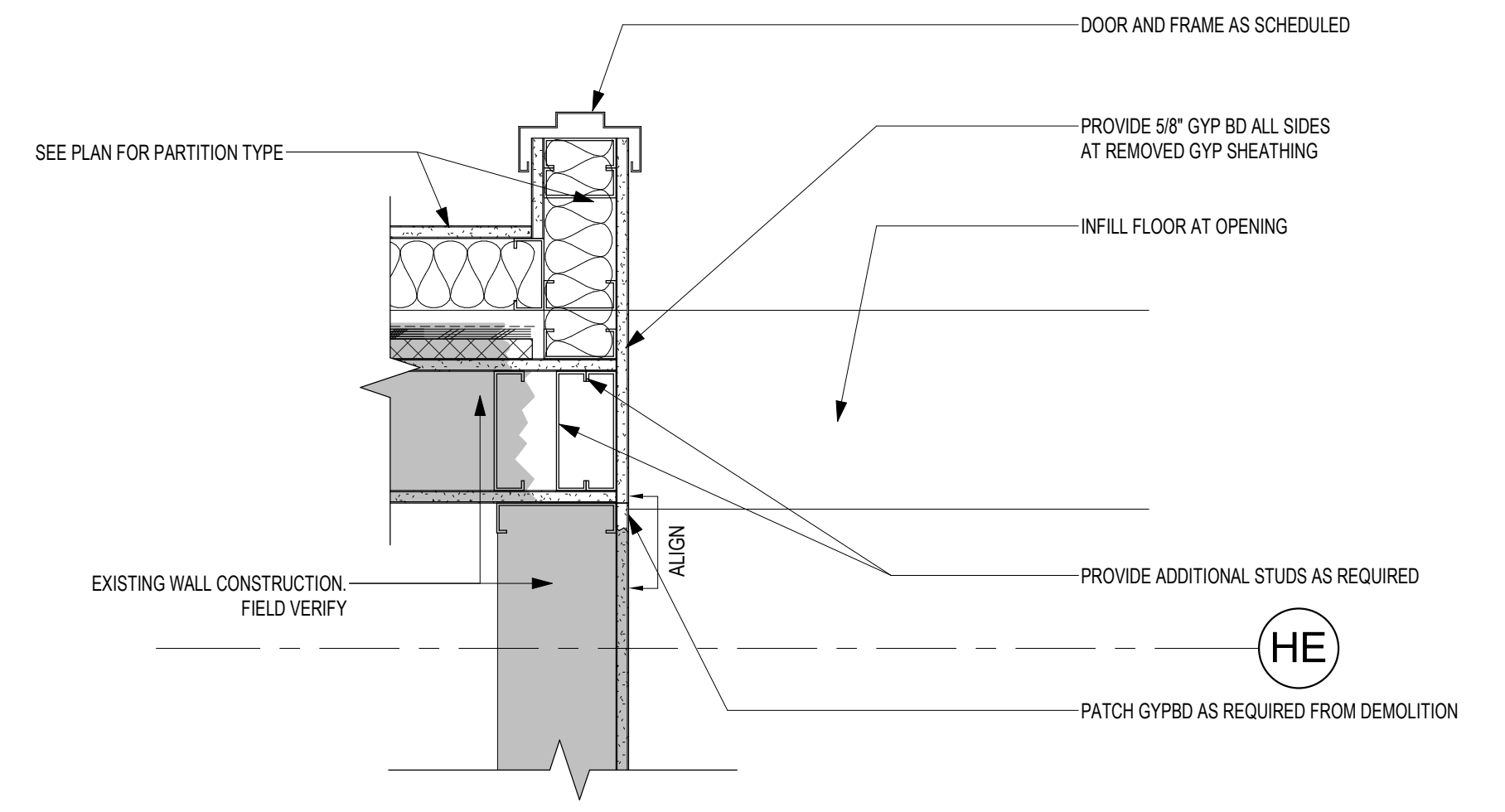
**3** DETAIL - EXPANSION JOINT AT RATED GYP BD PARTITION  
3" = 1'-0"



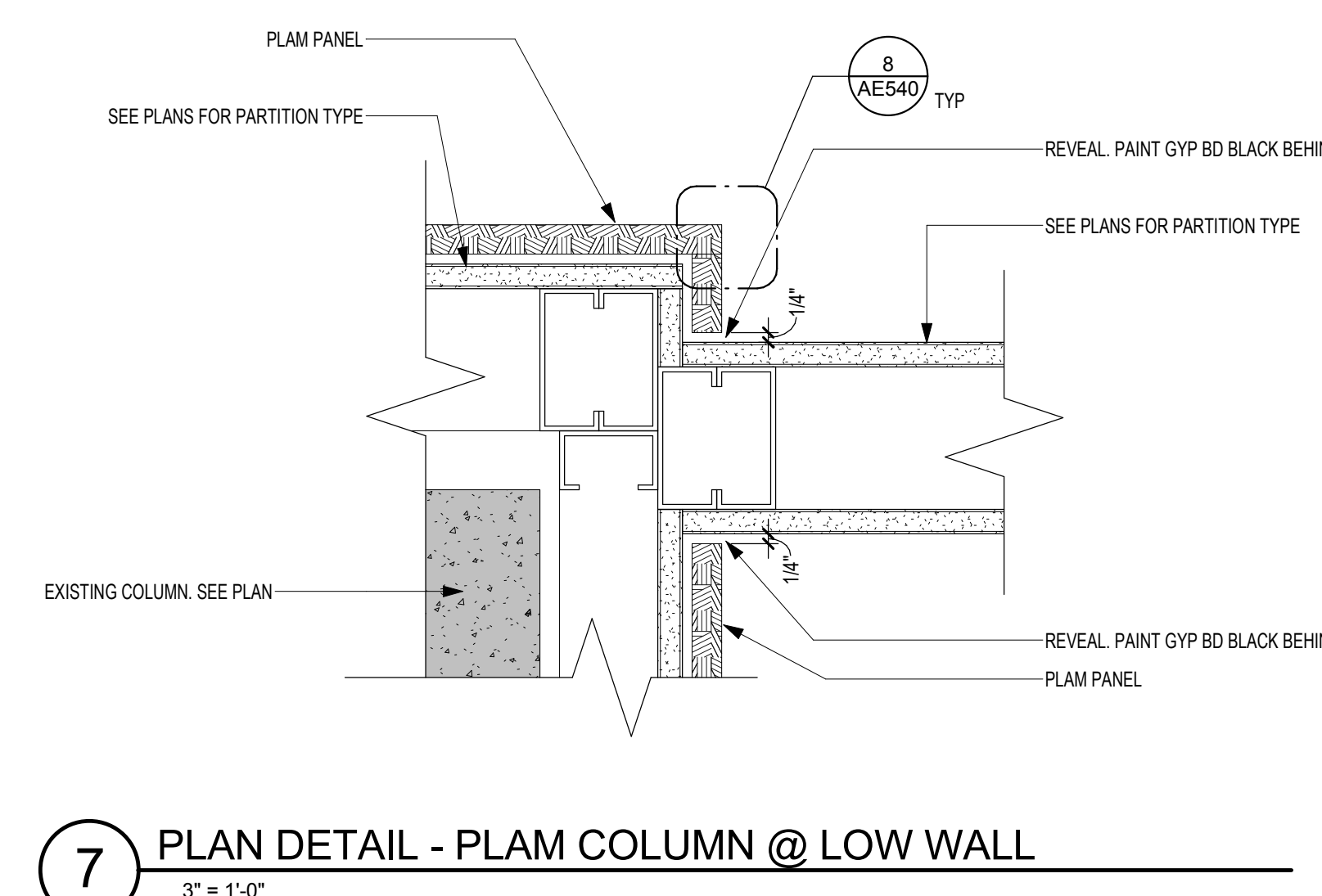
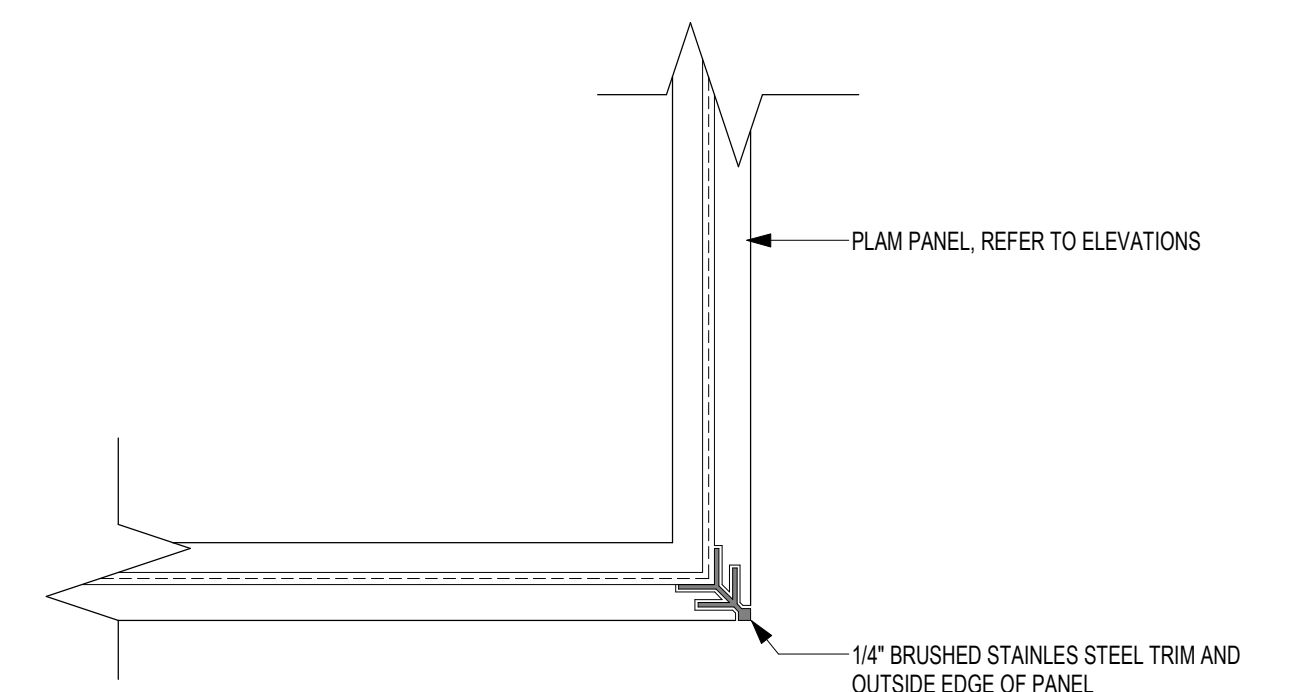
**2** PLAN DETAIL INTERIOR - EXPANSION JOINT @ GYPBD WALL  
3" = 1'-0"



**1** PLAN DETAIL INTERIOR - NEW OPENING AT SPEC MED  
1 1/2" = 1'-0"

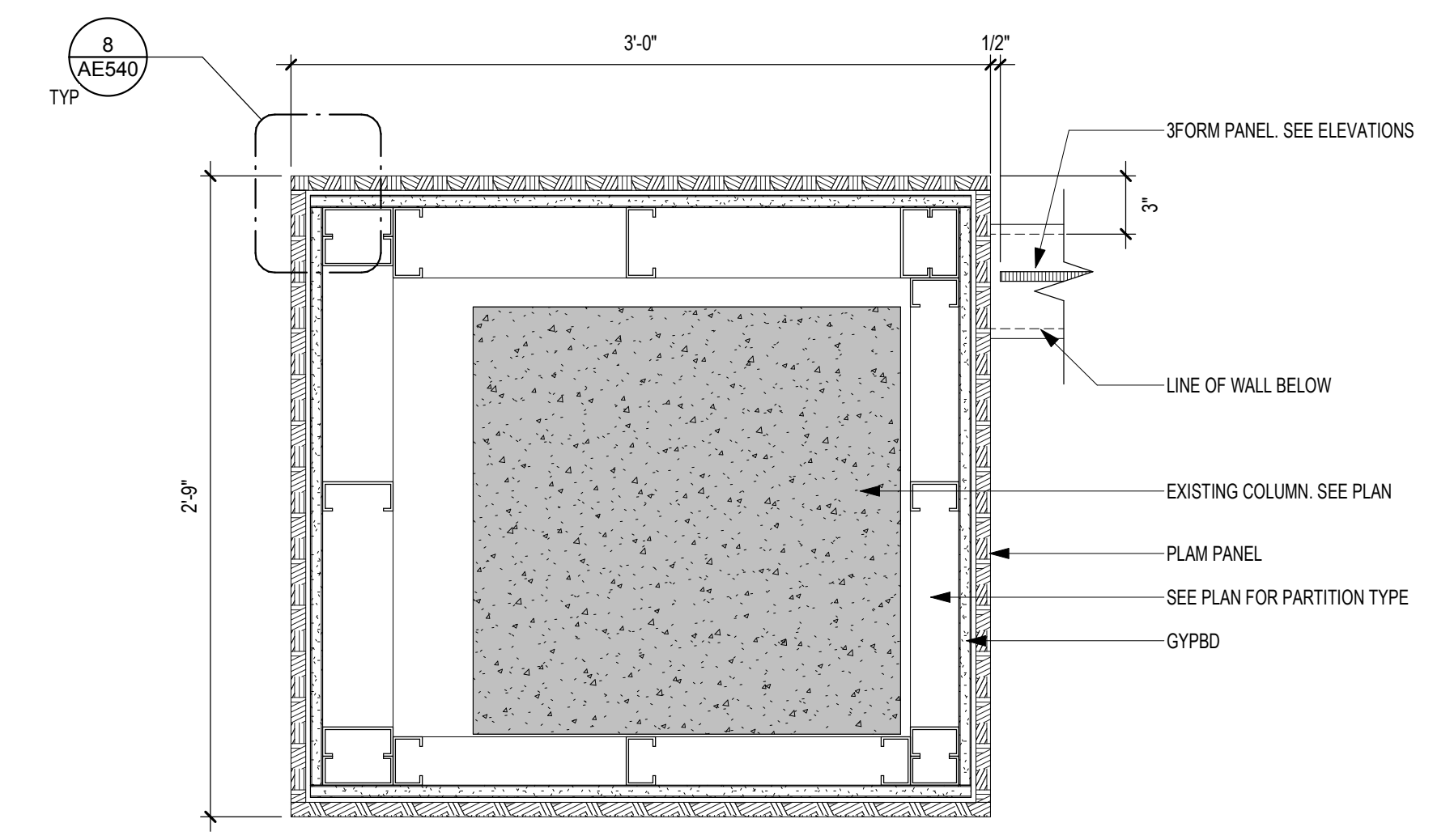


**4** DETAIL - GRAB BAR SUPPORT  
3" = 1'-0"

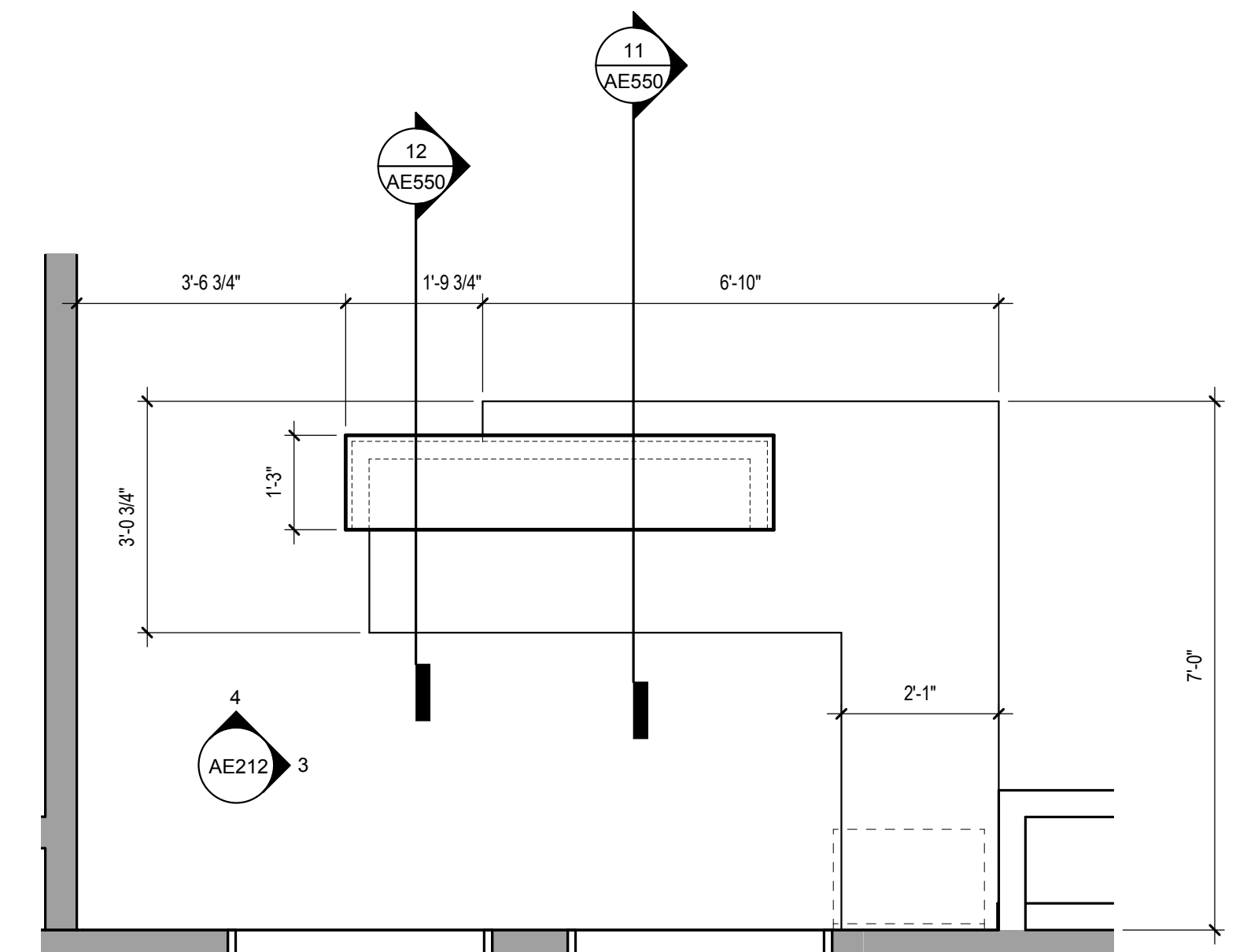


**7** PLAN DETAIL - PLAM COLUMN @ LOW WALL  
3" = 1'-0"

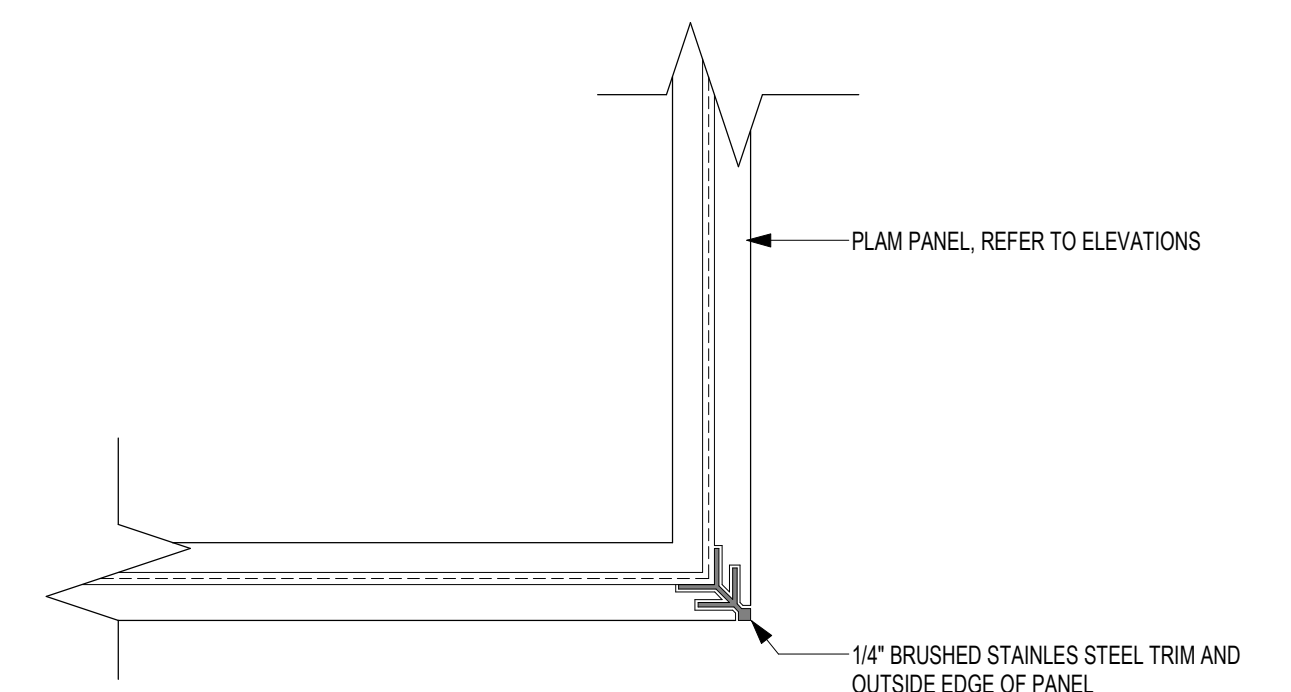
**6** PLAN DETAIL - PLAM COLUMN  
1 1/2" = 1'-0"



**5** ENLARGED PLAN - RECEPTION DESK - LOBBY 201  
1/2" = 1'-0"



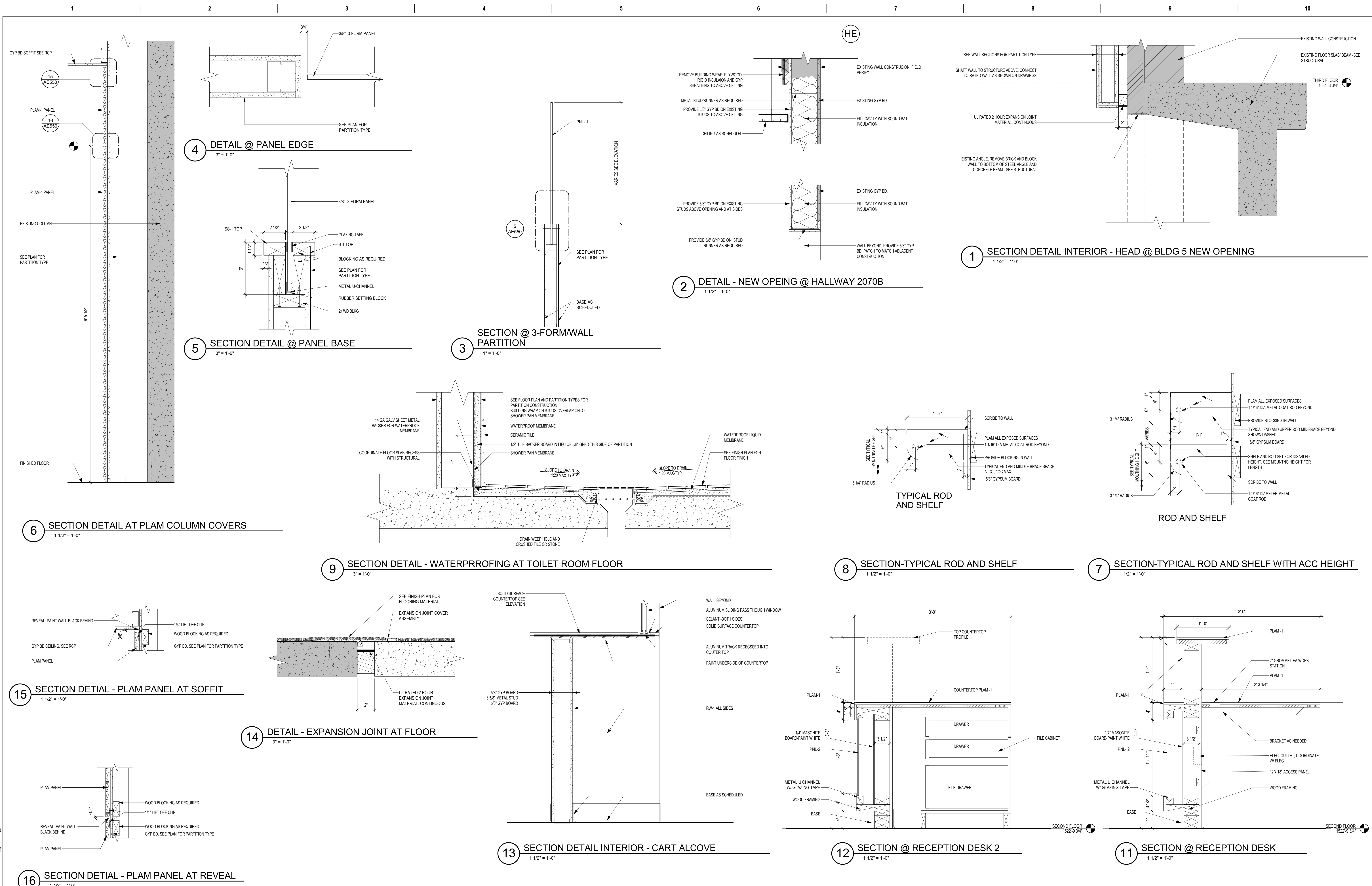
**8** PLAN DETAIL - SST TRIM @ CORNER  
3" = 1'-0"



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<b>CONSULTANT</b>  15 SUNNEN DR SUITE 104 SAINT LOUIS, MO 63143 PH: 314.645.1132 FAX: 314.645.1173 www.imegcorp.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Anderson Engineering of Minnesota, LLC 13605 1st Avenue North Suite 100 Plymouth, MN 55441 763-412-4000 (o) 763-412-4090 (f) www.ae-mn.com	<b>STAMP</b> I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of Minnesota. Signature: <i>Tom Olesak</i> Name: Tom Olesak Date: 01/10/2019 License Number: 18157	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>INTERIOR PLAN DETAILS</b>	Phase <b>CONSTRUCTION DOCUMENTS</b>	Project Title <b>CONSTRUCT LABORATORY ADDITION</b>	Project Number <b>438-440</b>
				Approved:	FULLY SPRINKLERED	Location <b>SIOUX FALLS, SOUTH DAKOTA</b>	Building Number <b>5</b>
				Issue Date <b>01/11/2019</b>	Checked	Drawn <b>GJB/JMT</b>	Drawing Number <b>AE540</b>



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Name: Tom Olesak  
Date: 01/10/2019  
License Number: 18157

**Office of Construction and Facilities Management**

**VA** U.S. Department of Veterans Affairs

Drawing Title  
**INTERIOR SECTION DETAILS**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

FULLY SPRINKLERED

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

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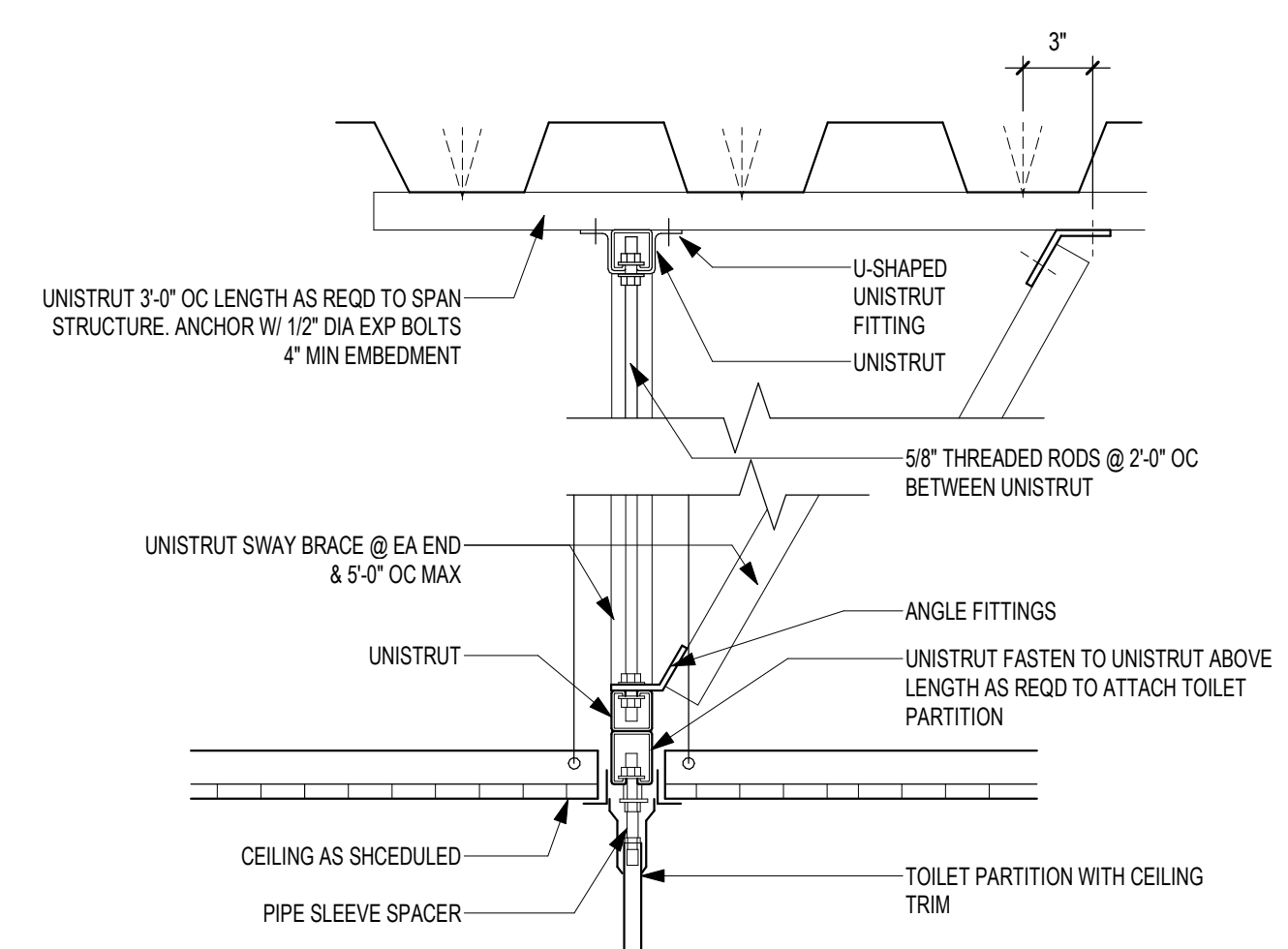
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GJB/JMT

Project Number  
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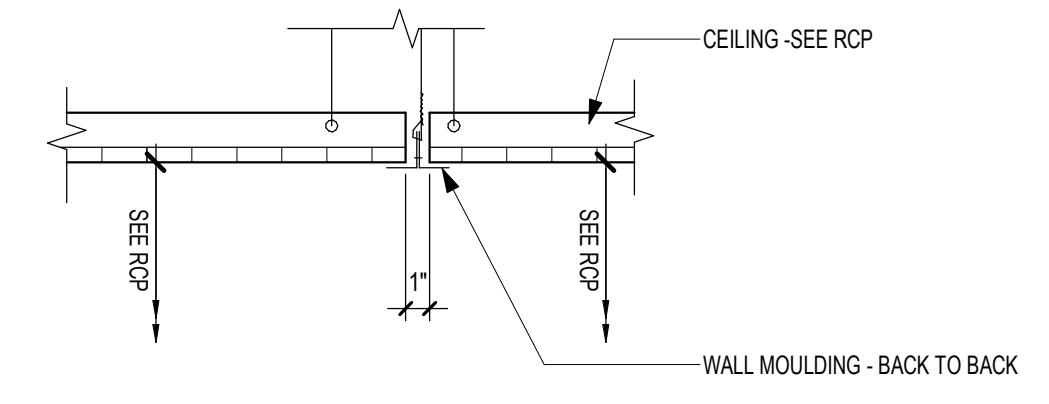
Building Number  
**5**

Drawing Number  
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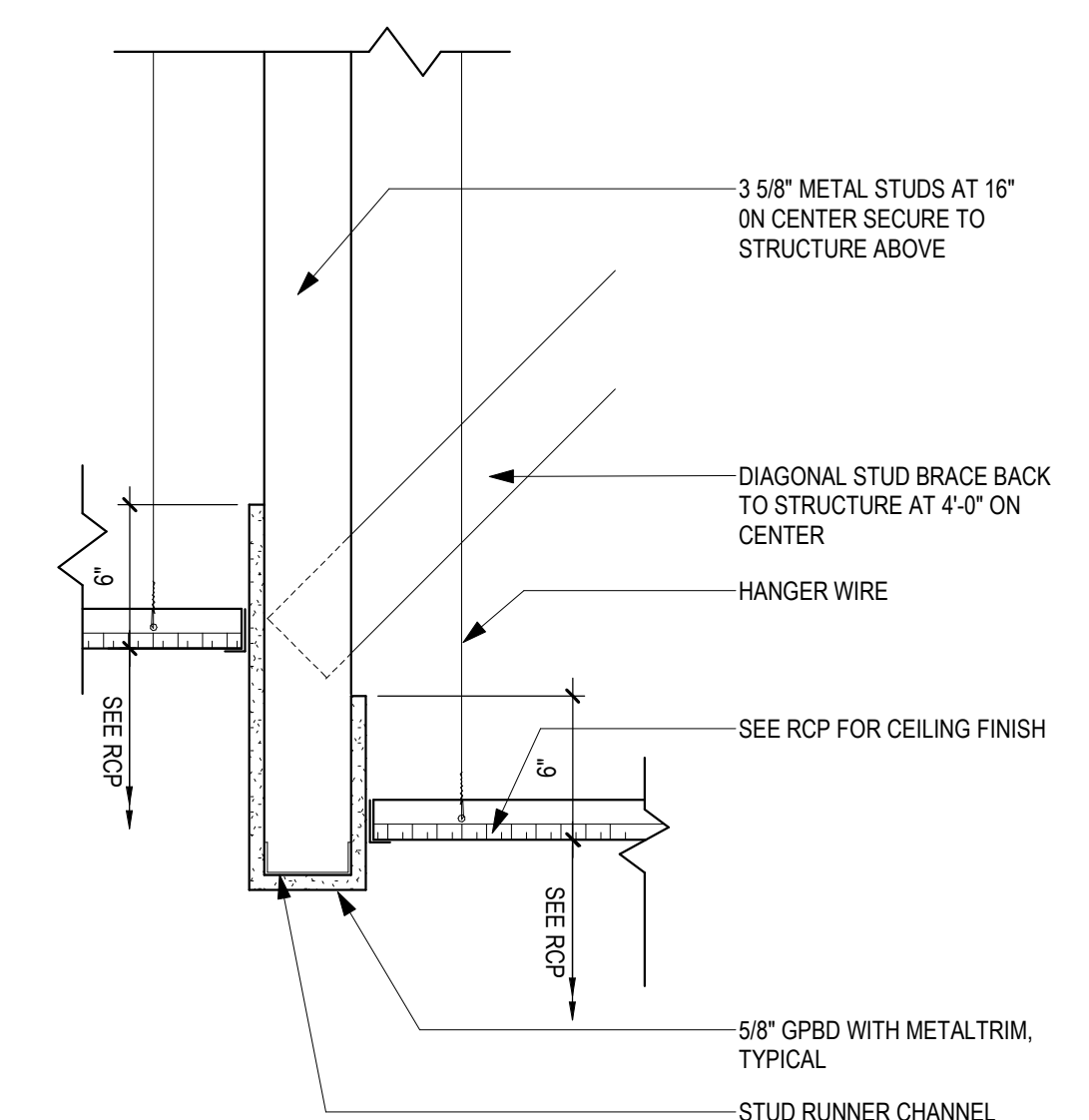
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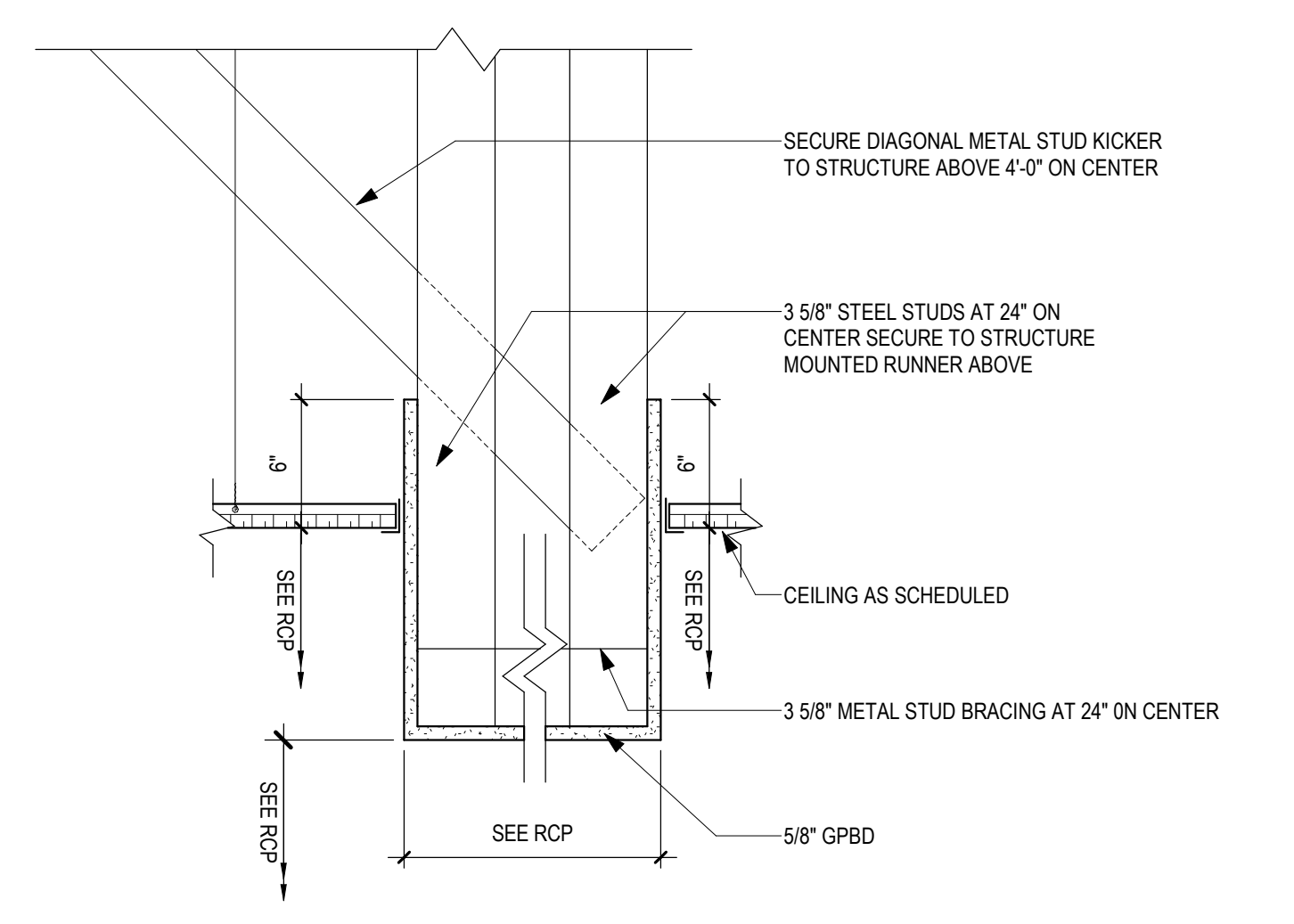
**4** INTERIOR SECTION DETAIL - CEILING MOUNTED TOILET PARTITIONS  
1 1/2" = 1'-0"



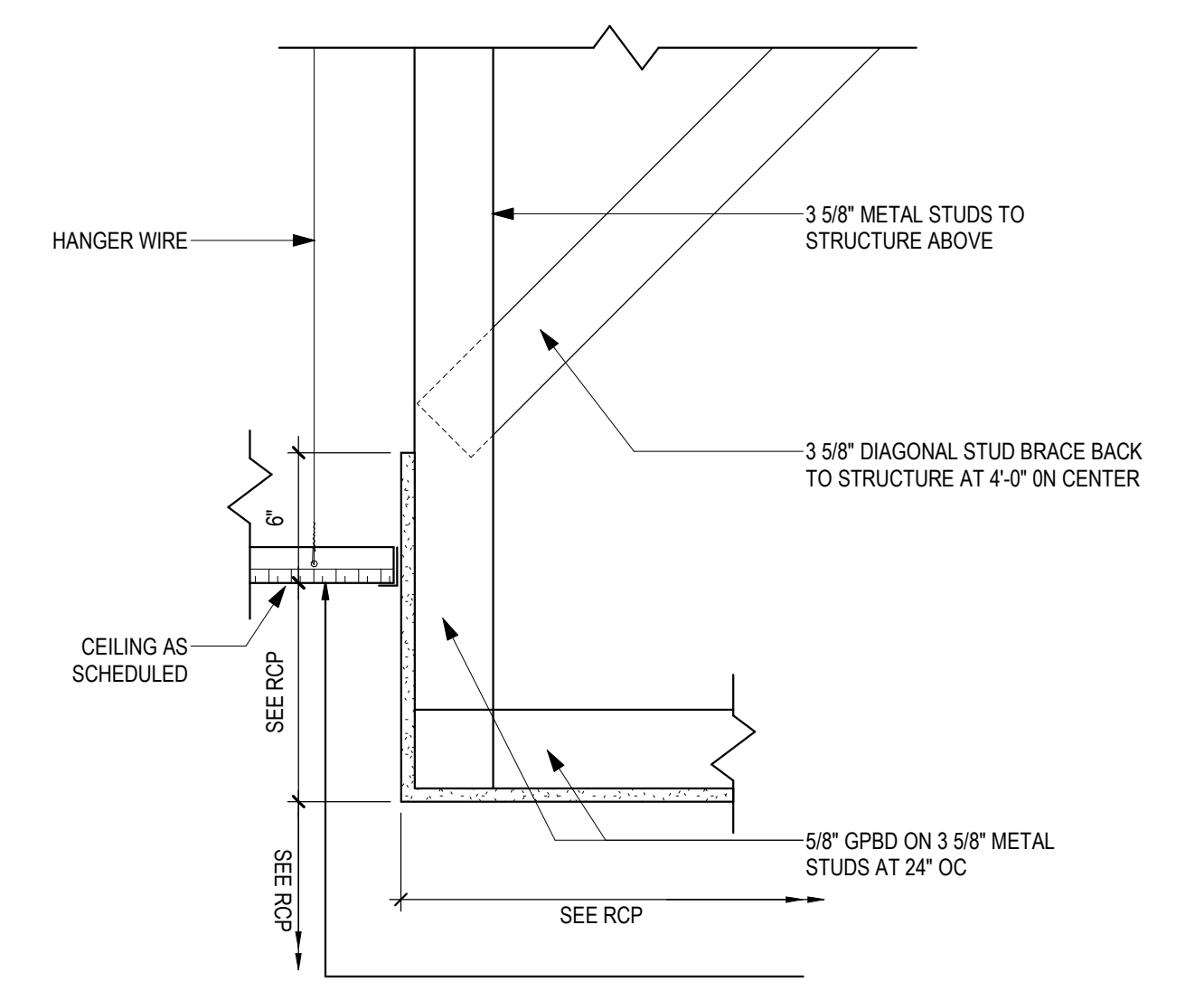
**3** SECTION DETAIL INTERIOR - ACT EXPANSION JOINT 1  
1 1/2" = 1'-0"



**2** SECTION DETAIL - GPBD BULKHEAD  
1 1/2" = 1'-0"



**1** SECTION DETAIL - WIDE GPBD BULKHEAD  
1 1/2" = 1'-0"



**5** SECTION DETAIL - GPBD SOFFIT  
1 1/2" = 1'-0"

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Office of  
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U.S. Department  
of Veterans  
Affairs

Drawing Title  
**CEILING DETAILS**

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Phase  
**CONSTRUCTION DOCUMENTS**

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Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

Checked  
\_\_\_\_\_

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GJB/JMT

Project Number  
**438-440**

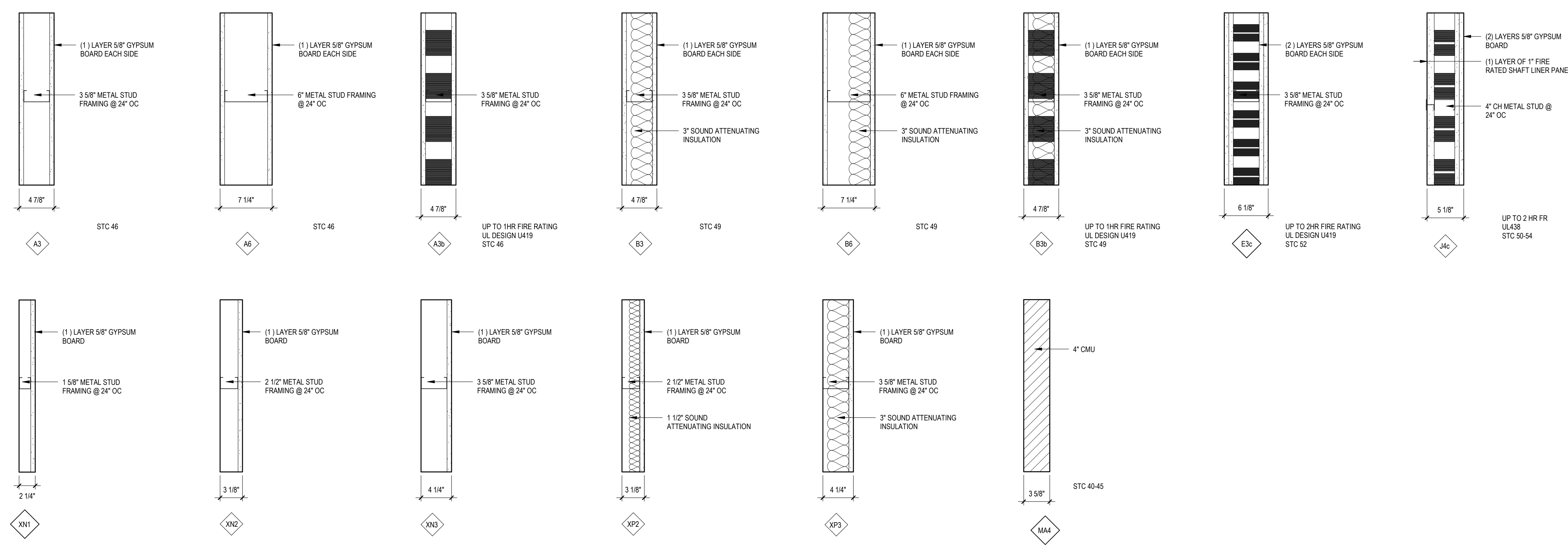
Building Number  
**5**

Drawing Number  
**AE560**

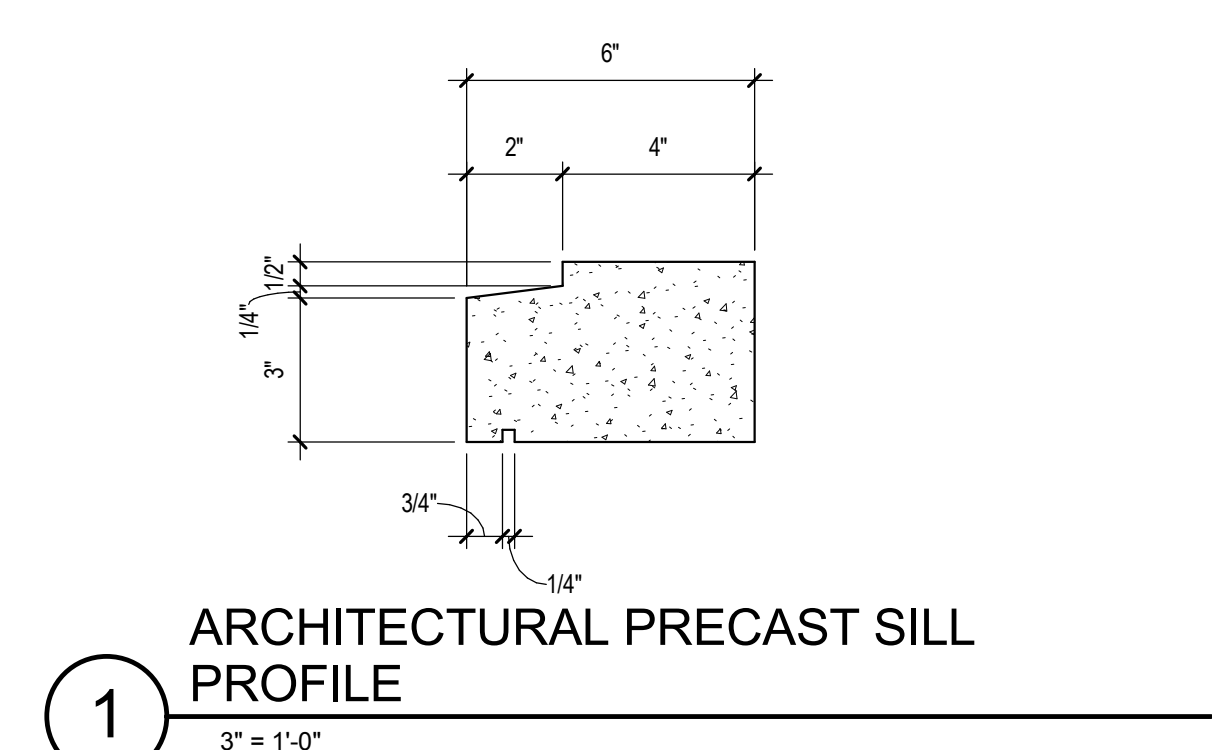
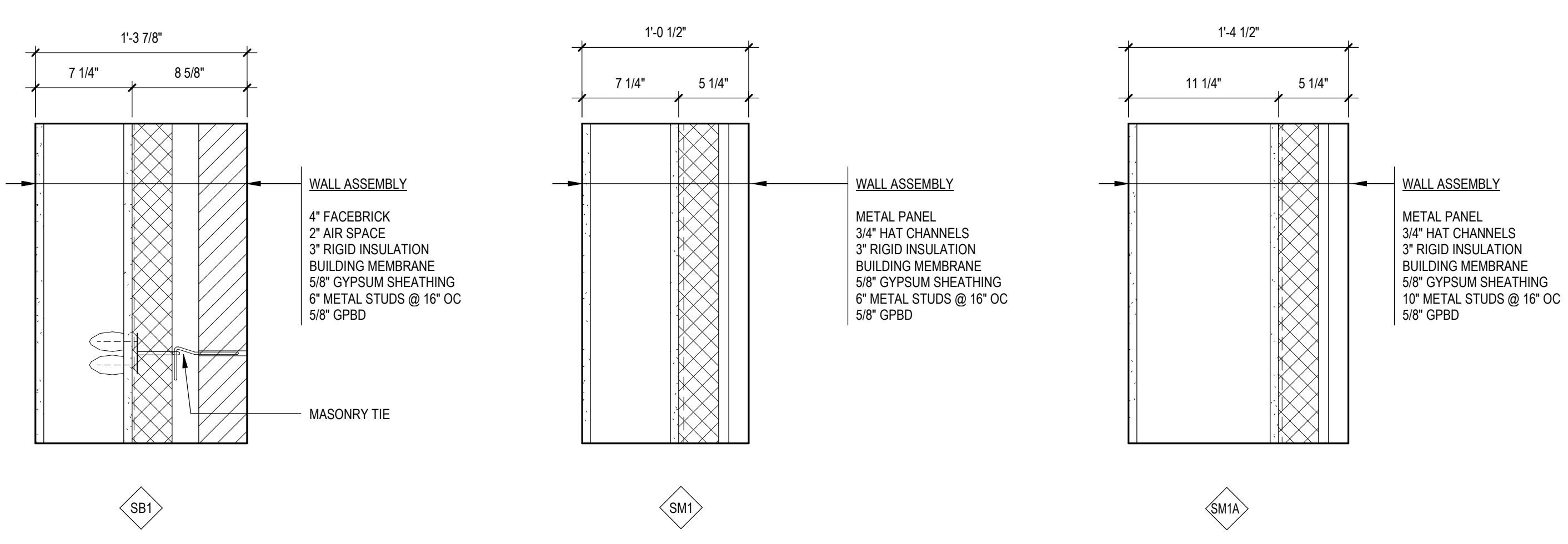
**PARTITION GENERAL NOTES:**

- SEE CODE PLANS FOR REQUIRED PARTITION FIRE RATINGS.
- GYPSUM BOARD AND METAL STUDS USED IN FIRE RATED SEPARATION PARTITIONS SHALL EXTEND FROM FLOOR TO UNDERSIDE OF STRUCTURE, UNLESS NOTED OTHERWISE.
- WHERE SMOKE PARTITIONS ARE REQUIRED BY CODE PLANS, THE FOLLOWING APPLIES TO ALL NON-ACOUSTICAL TYPE SMOKE PARTITIONS: EXTEND GYPSUM BOARD ON CORRIDOR SIDE TO STRUCTURE ABOVE. SEAL TOP AND BOTTOM OF PARTITION AND ALL PENETRATIONS THROUGH PARTITION ON CORRIDOR SIDE WITH A SMOKE SEALANT HAVING A MINIMUM WARM SMOKE TEMPERATURE OF 400 DEGREES FAHRENHEIT. ALL SEALS MUST HAVE PRE-APPROVAL OF CODE OFFICIAL. ROOM SIDE GYPSUM BOARD CAN EXTEND TO 6" ABOVE FINISHED CEILING.
- WHERE SMOKE PARTITIONS ARE REQUIRED BY CODE PLANS, THE FOLLOWING APPLIES TO ALL ACOUSTICAL TYPE SMOKE PARTITIONS: EXTEND GYPSUM BOARD ON BOTH SIDES TO STRUCTURE ABOVE. SEAL TOP AND BOTTOM OF PARTITION AND ALL PENETRATIONS THROUGH THE PARTITION ON THE CORRIDOR SIDE WITH A SMOKE SEALANT HAVING A MINIMUM WARM SMOKE TEMPERATURE RATING OF 400 DEGREES FAHRENHEIT. PROVIDE REQUIRED ACOUSTIC SEALANT ON ROOM SIDE AT TOP AND BOTTOM OF PARTITION AND ALL PENETRATIONS THROUGH PARTITION. ALL SEALS MUST HAVE PRE-APPROVAL OF CODE OFFICIAL.
- CONTRACTORS TO VERIFY CONDITIONS ABOVE CEILING AT EXISTING PARTITIONS IDENTIFIED WITH FIRE SMOKE PARTITION SYMBOLS. REPAIR CONDITIONS THAT DO NOT MEET REQUIREMENTS OF THE INDICATED FIRE SMOKE RATING SHOWN, SUCH AS BUT NOT LIMITED TO OPENINGS IN PARTITIONS, GAPS AROUND DUCTWORK, PIPES AND CONDUIT, MISSING SMOKE DAMPERS, ETC.
- DIMENSIONS TO METAL STUD PARTITION ARE MEASURED TO FINISH FACE OF PARTITION UNLESS NOTED OTHERWISE.
- THE DIMENSION SHOWING THE LOCATION OF A DOOR FRAME IN GYPSUM BOARD WALLS IS TO THE INSIDE OF THE DOOR FRAME (DOOR OPENING). PROVIDE 4" TYPICAL DIMENSION IF NO DIMENSION IS SHOWN.
- SOUND ATTENUATING INSULATION MEANS GLASS FIBER OR MINERAL WOOL BATTS OR BLANKETS BEARING THE UL LABEL FOR FIRE RESISTANCE. VERIFY TYPE AND DENSITY (PCF) WITH FIRE TEST NUMBER SHOWN ON PARTITION TYPE.
- FOR PARTITION HEIGHTS SEE PARTITION TAG LEGEND AND TAG SUBSCRIPTS ON PLANS.
- ALL PARTITIONS TO BE TYPE B3, UNLESS NOTED OTHERWISE.
- ALL FURRING TO BE PARTITION TYPE XN3, UNLESS NOTED OTHERWISE.
- FOR PARTITION TYPES WITH GYPSUM BOARD ON ONE SIDE ONLY, INSTALL GYPSUM BOARD ON ROOM SIDE. UNLESS NOTED OR DETAILED OTHERWISE, FOR SHAFTWALL PARTITION TYPES, INSTALL LINER PANEL ON NON ACCESSIBLE SIDE, UNLESS NOTED OR DETAILED OTHERWISE.
- PROVIDE 1/2" DEFLECTION SPACE AT THE TOP OF STUDS AT ALL PARTITIONS EXTENDING TO STRUCTURE, UNLESS NOTED OTHERWISE.
- WHEN GYPSUM BOARD PARTITIONS ARE LOCATED BELOW STRUCTURE THAT HAS A VERTICAL DEFLECTION MOVEMENT MORE THAN 1/2", PROVIDE PARTITION HEADS WITH VERTICAL MOVEMENT CAPABILITY TO MATCH THAT DEGREE OF MOVEMENT. MAINTAIN THE REQUIRED FIRE RATING OF FIRE RATED PARTITIONS FROM FLOOR TO STRUCTURE ABOVE WITH FIRE TESTED HEAD CONSTRUCTION.
- WHEN PARTITION FRAMING RUNS HIGHER THAN 12'-0" ABOVE FINISH FLOOR, BRACE PARTITION BACK TO STRUCTURE ABOVE WITH METAL STUDS EVERY 4'-0" ON CENTER MINIMUM.
- BULKHEAD FRAMING SHALL EXTEND TO UNDERSIDE OF STRUCTURE WITH DIAGONAL STUD FRAMING BRACES AT 4'-0" ON CENTER (2 BRACES MINIMUM) WITH GYPSUM BOARD EXTENDING 6" ABOVE CEILING MINIMUM, UNLESS NOTED OTHERWISE.
- GENERAL CONTRACTOR SHALL PROVIDE AND COORDINATE ALL IN-WALL BLOCKING FOR WALL MOUNTED CASEWORK AND EQUIPMENT SUPPLIED BY THIS CONTRACT, OWNER FURNISHED OR BY VENDORS. CONTRACTORS TO PROVIDE 3/4" FIRE TREATED PLYWOOD (PRESERVATIVE TREATED ON EXTERIOR WALLS) BLOCKING FOR WALL MOUNTED EQUIPMENT, CASEWORK, DOOR STOPS, ACCESSORIES, ETC, UNLESS NOTED OTHERWISE.
- IN WET AREAS SUCH AS BUT NOT LIMITED TO SHOWER, TUB, GLASS WASHING ROOMS, SOILED UTILITY ROOMS, JANITOR CLOSETS, COMMERCIAL FOOD PROCESSING ROOMS, ETC, USE TILE BACKER BOARD BEHIND THE CERAMIC TILE AND EXTEND TO 2" BEYOND ALL SIDES OF THE PLUMBING FIXTURE. IN DOUBLE LAYER WALLS WHERE THE TILE BACKER BOARD IS INSTALLED OVER A BASE LAYER OF GYPSUM BOARD, APPLY A WATER BARRIER (BUILDING WRAP) NOT A VAPOR RETARDER, OVER THE BASE LAYER OF GYPSUM BOARD. IN HIGH HUMIDITY AREAS SUCH AS SAUNAS, STEAM ROOMS AND SWIMMING POOLS, WHERE WALLS ARE EXPOSED TO CONSTANT MOISTURE, USE TILE BACKER BOARD BEHIND CERAMIC TILE.
- IN WET AREAS SUCH AS SOILED UTILITY ROOMS, JANITOR CLOSETS, ETC, USE 5/8" WATER RESISTANT GYPSUM BOARD OR 5/8" FR WATER RESISTANT GYPSUM BOARD.
- FOR ALL REMODELING PROJECTS, ALL PARTITIONS NOTED AT INFILLS WITHIN, OR EXTENSIONS ONTO EXISTING PARTITIONS, ARE NOTED AS SUCH FOR INTENT ONLY. ALL EXPOSED PARTITION FACES ARE TO ALIGN.

**PARTITION TYPES**

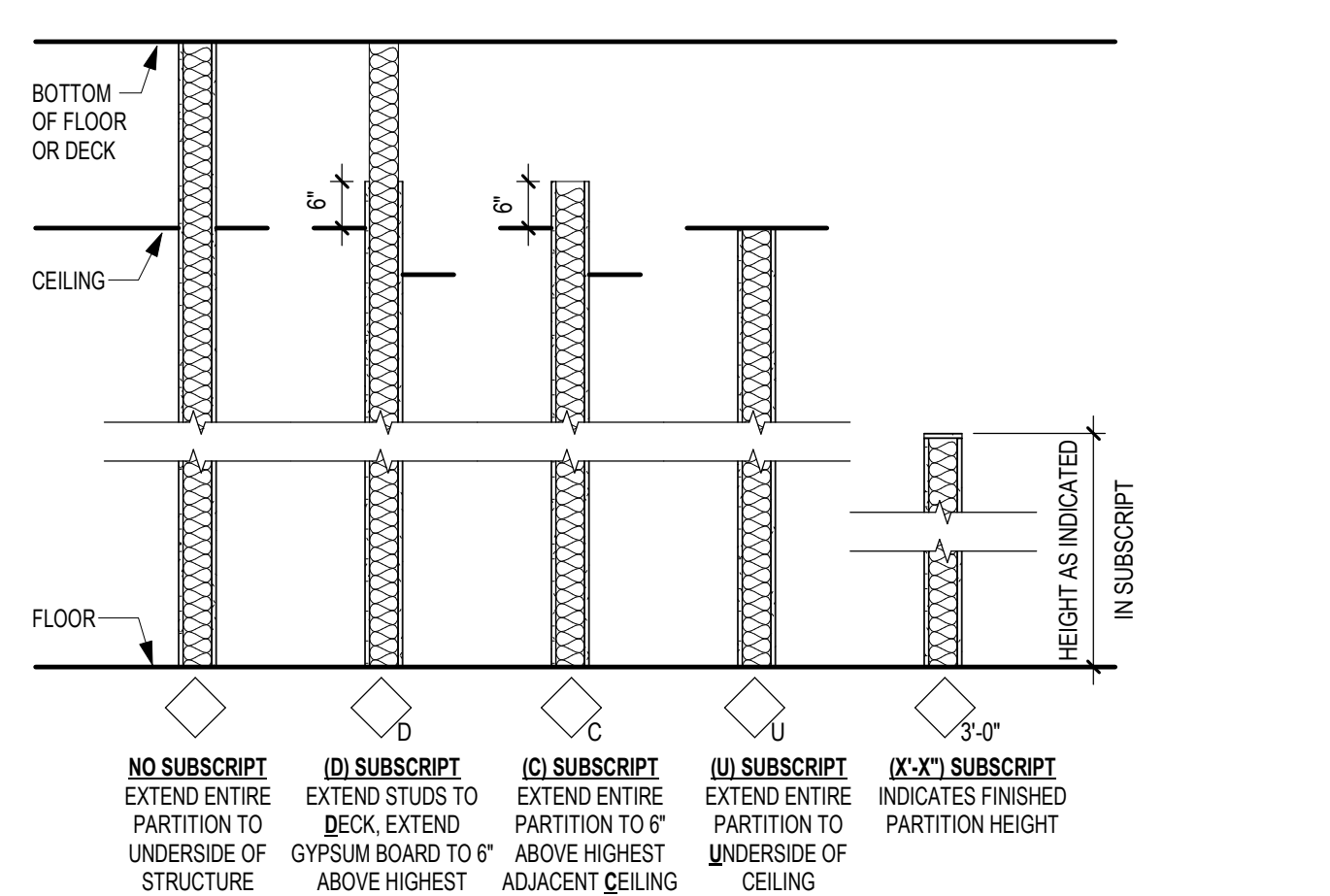


**WALL TYPES**



**ACOUSTIC PARTITION GENERAL NOTES:**

- USE ACOUSTICAL SEALANT AT ALL GYPSUM BOARD PARTITION PENETRATIONS AND JOINTS SUCH AS THE STRUCTURE ABOVE, FLOOR SURFACES AND PARTITIONS CONSTRUCTED OF ANOTHER MATERIAL, UNLESS NOTED OTHERWISE.
- ALLOW MINIMUM 1/8" SPACE BETWEEN ELECTRICAL BOX AND GYPSUM BOARD. FILL GAP WITH ACOUSTICAL SEALANT.
- BEFORE INSTALLING GYPSUM BOARD OR SOUND ATTENUATION INSULATION, APPLY MINIMUM 1/16" THICKNESS OF ACOUSTICAL SEALANT OVER KNOCKOUTS OR OTHER SMALL HOLES IN THE ELECTRICAL BOXES TO INSURE THAT THEY ARE AIR TIGHT. IF A KNOCKOUT IS MISSING, WRAP WITH TAPE AND COVER WITH TAPE. AT LEAST 1/8" THICK. INSPECT BACK SEALING OF BOXES BEFORE THE SOUND ATTENUATION INSULATION AND GYPSUM BOARD ARE INSTALLED.
- WHEN SOUND ATTENUATION INSULATION (SAMI) IS USED, IT MUST NOT CONTACT THE GYPSUM MOUNTED ON THE RESIDENT CHANNEL. SIDE OF PARTITION AS THE LISTED SOUND ATTENUATION VALUE WILL BE COMPROMISED.
- LOCATE OUTLETS IN ALTERNATE STUD CAVITIES AND USE SEPARATE CONDUIT FOR OUTLETS ON OPPOSITE SIDE OF THE SAME PARTITION.
- ELECTRICAL BOXES CAN BE RIGIDLY MOUNTED TO STUDS WITH STANDARD MOUNTING BRACKETS. DO NOT ALLOW BOX MOUNTING BRACKETS OR CONDUIT TO TOUCH THE RESIDENT CHANNELS. ELECTRICAL BOXES ARE NOT PERMITTED IN WALLS EXCEEDING A TWO HOUR FIRE RATING UNLESS WALLS ARE SO TESTED.



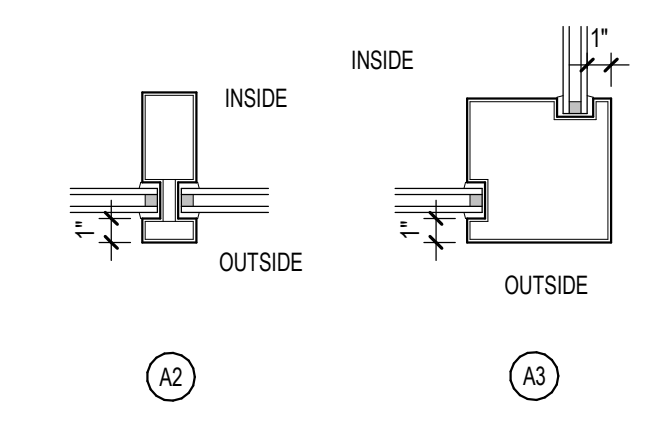
- GENERAL NOTES:**
- FOR PARTITIONS WITH UNEQUAL LAYERS OF GYPSUM BOARD ON EACH SIDE, THE SIDE OF THE PARTITION WITH THE TAG INDICATES WHERE THE EXTRA LAYERS OF GYPSUM BOARD ARE TO BE INSTALLED. REFER TO PARTITION TYPES FOR MORE INFORMATION.
  - DIMENSIONS TO METAL STUD PARTITIONS ARE MEASURED TO FINISH FACE UNLESS NOTED OTHERWISE.
  - AT INFILL WITHIN OR EXTENSIONS ONTO EXISTING PARTITIONS, THE PARTITION TAG NOTED IS FOR INTENT ONLY. FINISHED PARTITION FACES ARE TO ALIGN WITH ADJACENT EXISTING PARTITION FACES.
  - SUBSCRIPTS MAY BE USED WITH ANY PARTITION TYPE.

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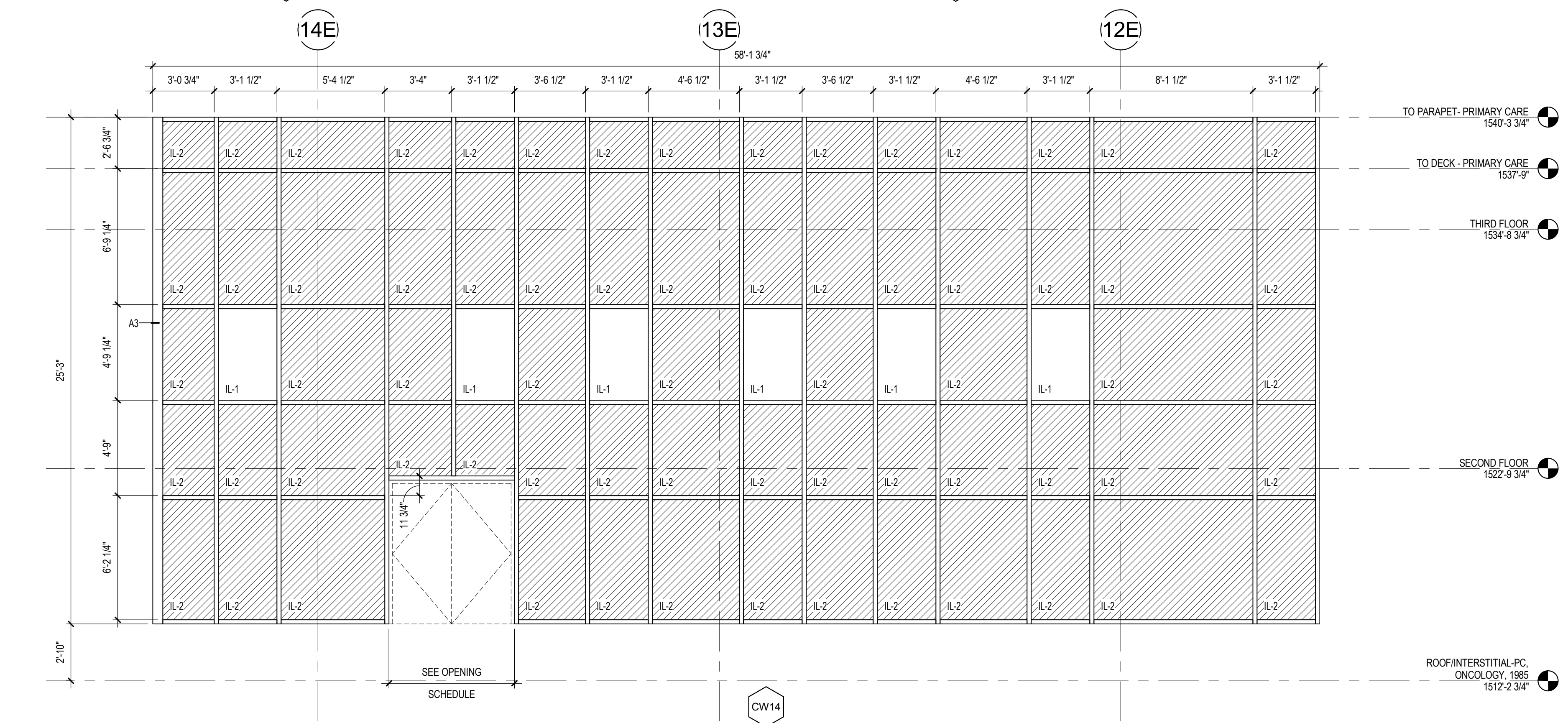
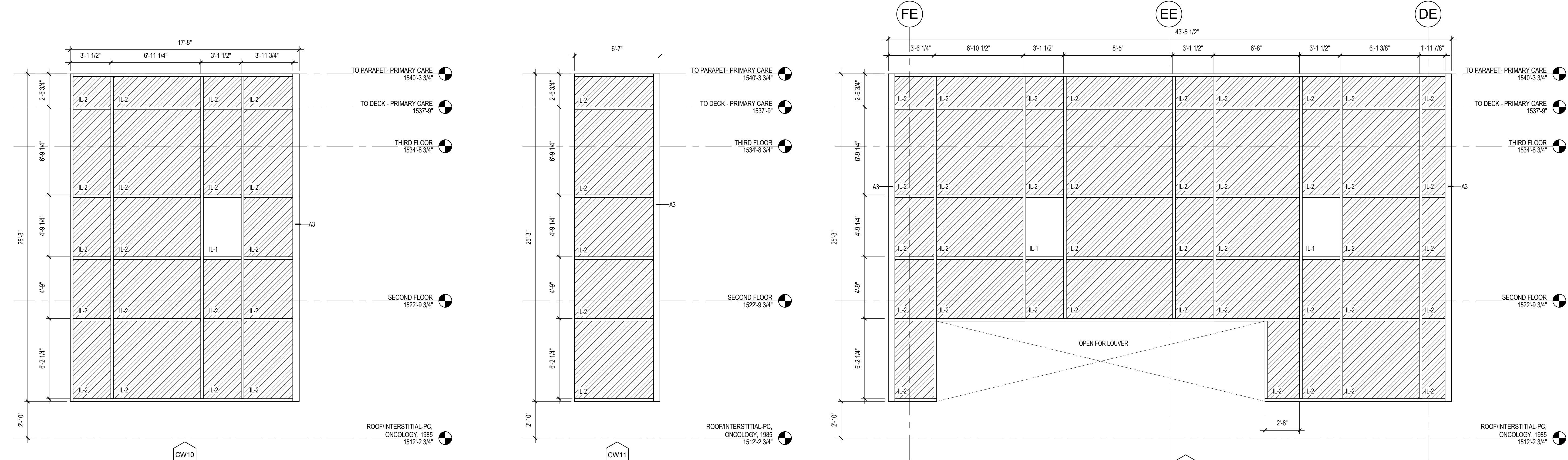
<b>CONSULTANT</b>  15 SUNNEN DR SUITE 104 SAINT LOUIS, MO 63143 PH: 314.645.1132 FAX: 314.645.1173 www.imegcorp.com		<b>ARCHITECT/ENGINEER OF RECORD</b>  Anderson Engineering of Minnesota, LLC 13605 1st Avenue North Suite 100 Plymouth, MN 55441 763-412-4000 (o) 763-412-4090 (f) www.ae-mn.com		<b>STAMP</b> I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of Minnesota. Signature: <i>Tom Oleak</i> Name: Tom Oleak Date: 01/10/2019 License Number: 18157	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title <b>EXTERIOR WALL &amp; INTERIOR PARTITION TYPES &amp; DETAILS</b> Approved:	Phase <b>CONSTRUCTION DOCUMENTS</b> FULLY SPRINKLERED	Project Title <b>CONSTRUCT LABORATORY ADDITION</b>	Project Number <b>438-440</b> Building Number <b>5</b> Drawing Number <b>AE01</b>
35% SD REVIEW Revisions:	03/14/2018 Date:								



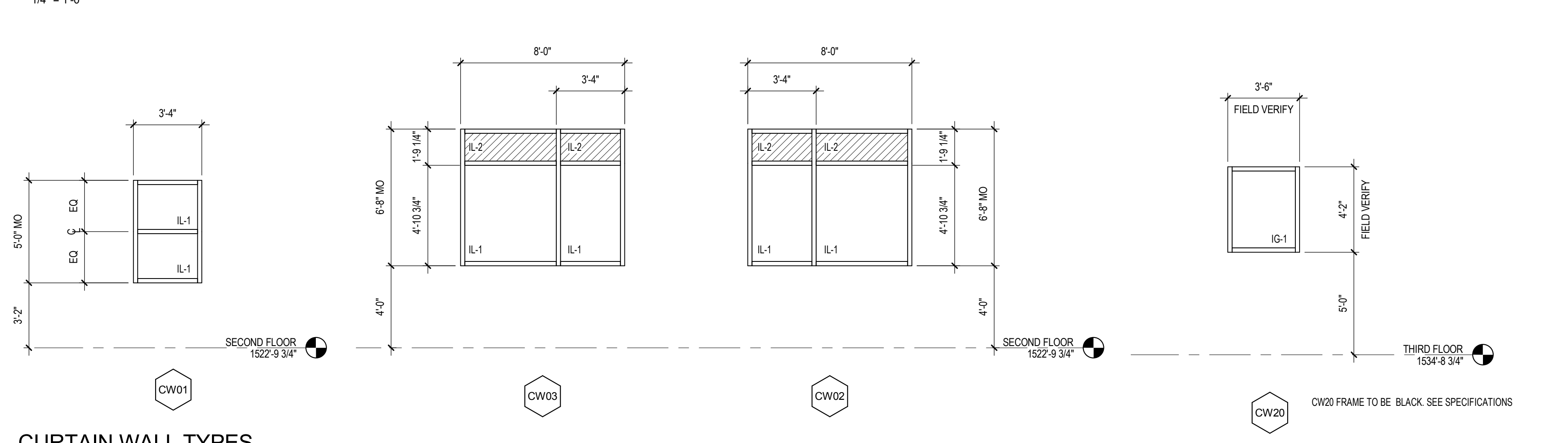
**CURTAIN WALL NOTES**  
 ALL CURTAIN WALL SYSTEMS TO BE 6" UNLESS NOTED OTHERWISE  
 ALL 6" SYSTEM MULLION PROFILES TO BE A2 UNLESS NOTED OTHERWISE



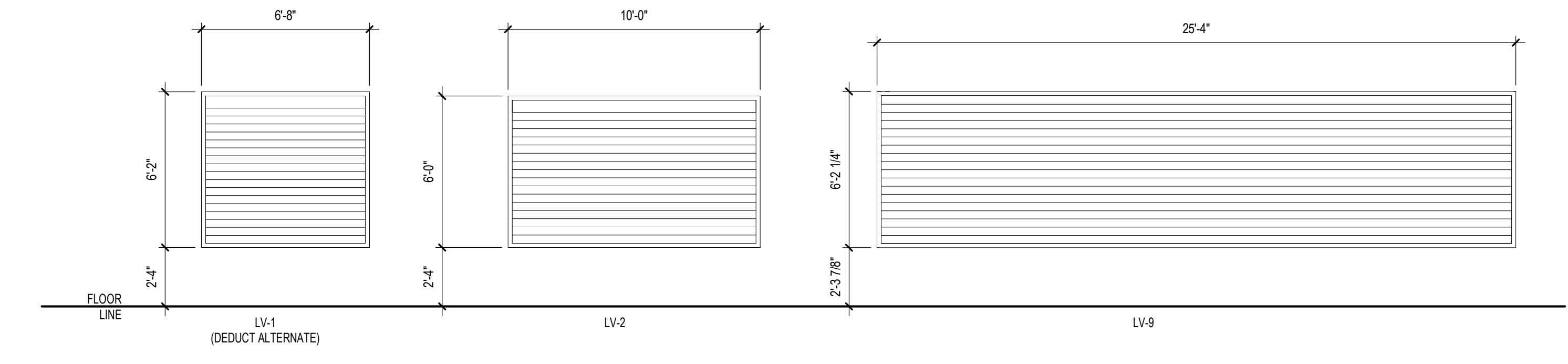
**CURTAIN WALL FRAMES AND PROFILES**



**CURTAIN WALL TYPES (BASE BID)**



**CURTAIN WALL TYPES**



**LOUVER TYPES**

Revisions:	Date:

**CONSULTANT**

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AE PROJECT NUMBER: 14567

**STAMP**

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of Minnesota.

Signature: *[Signature]*

Name: Tom Olesak  
 Date: 01/10/2019  
 License Number: 18157

Office of  
 Construction  
 and Facilities  
 Management

**VA** U.S. Department  
 of Veterans  
 Affairs

Drawing Title  
**WINDOW TYPES AND PROFILE  
 TYPES, LOUVER TYPES**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION  
 DOCUMENTS**

FULLY SPRINKLERED

Project Title  
**CONSTRUCT LABORATORY  
 ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
 01/11/2019

Checked  
 \_\_\_\_\_

Drawn  
 GJB/JMT

Project Number  
**438-440**

Building Number  
**5**

Drawing Number  
**AE603**

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<p><b>ACCESSIBLE TOILET/WATER CLOSETS</b></p> <p>1. SANITARY NAPKIN DISPOSAL PROVIDE AT UNISEX &amp; WOMENS BATHROOMS ONLY. 2. DISPENSERS MAY NOT BE LOCATED BEHIND GRAB BARS. COORDINATE THE LOCATION OF ALL NC, SND, TPH, GB, ETC.... 3. AT TOILET COMPARTMENTS ** AT TOILET COMPARTMENTS AND SINGLE OCCUPANCY</p>	<p><b>ACCESSIBLE BARIATRIC TOILET/WATER CLOSETS</b></p> <p>1. SANITARY NAPKIN DISPOSAL PROVIDE AT UNISEX &amp; WOMENS BATHROOMS ONLY. 2. DISPENSERS MAY NOT BE LOCATED BEHIND GRAB BARS. COORDINATE THE LOCATION OF ALL NC, SND, TPH, GB, ETC.... 3. AT TOILET COMPARTMENTS ** AT TOILET COMPARTMENTS AND SINGLE OCCUPANCY</p>	<p><b>ACCESSIBLE LAVATORY BASIN/BATHROOMS</b></p> <p>1. SEE PLAN FOR SPECIFIC LOCATION CONDITION 2. SSSD &amp; PTC - VC 3. *KNEE CLEARANCE 4. SEE ACCESSIBLE MIRROR AT LAV FOR ADDITIONAL INFORMATION</p>	<p><b>ACCESSIBLE MIRROR</b></p> <p>1. SEE INTERIOR ELEVATIONS FOR MIRROR SIZE</p>	<p><b>ACCESSIBLE SOAP AND HAND SANITIZER DISPENSER</b></p> <p>1. SEE PLAN FOR LOCATION SD - (V4) 2. SEE PLAN FOR LOCATION PTC - VC</p>	<p><b>ACCESSIBLE PTD</b></p> <p>1. SEE PLAN FOR LOCATION PTC - VC 2. SEE PLAN FOR LOCATION PTC - VC</p>	<p><b>ACCESSIBLE URINAL</b></p>	<p><b>SANITARY NAPKIN DISPOSAL</b></p> <p>1. SANITARY NAPKIN DISPOSAL PROVIDE AT UNISEX &amp; WOMENS PATIENT BATHROOMS ONLY.</p>	<p><b>EMERGENCY SHOWER/EYEWASH</b></p>
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<p><b>HOUSEKEEPING/EVS CLOSET</b></p> <p>1. UTILITY SHELF 24" LONG UNO 2. WATER CONTROLS AND SERVICE RECEPTOR - SEE MECHANICAL</p>	<p><b>SHARPS CONTAINER</b></p>	<p><b>GLOVE BOX</b></p> <p>2 GLOVE BOXES SHOWN, REFER TO ELEV FOR REQ'D QTY. ADDITIONAL BOXES MOUNTED ABOVE 4'-6 1/2" MIN.</p>	<p><b>CHART HOLDER</b></p>	<p><b>FLAT TV SCREEN/ MONITORS</b></p> <p>PROVIDE PARTITION BLOCKING</p>	<p><b>PC MOUNTING BRACKET</b></p> <p>ADJUSTABLE VERTICAL SLIDE MONITOR BRACKET PROVIDE MOUNTING STEEL</p>	<p><b>WALL CLOCK</b></p> <p>-SEE ELECTRICAL DRAWINGS</p>	<p><b>CARD READER</b></p> <p>-SEE ELECTRICAL AND COMMUNICATION DRAWINGS</p>	<p><b>EMERGENCY SHOWER/EYEWASH</b></p>	<p><b>WALL PHONE</b></p>
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**VA - TYPICAL MOUNTING HEIGHTS**

Revisions:	Date:

**CONSULTANT**

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**AE PROJECT NUMBER: 14567**

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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the State of Minnesota.

Signature: *Tom Olesak*

Name: Tom Olesak  
Date: 01/10/2019  
License Number: 18157

**Office of Construction and Facilities Management**

U.S. Department of Veterans Affairs

Drawing Title  
**MOUNTING HEIGHTS**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

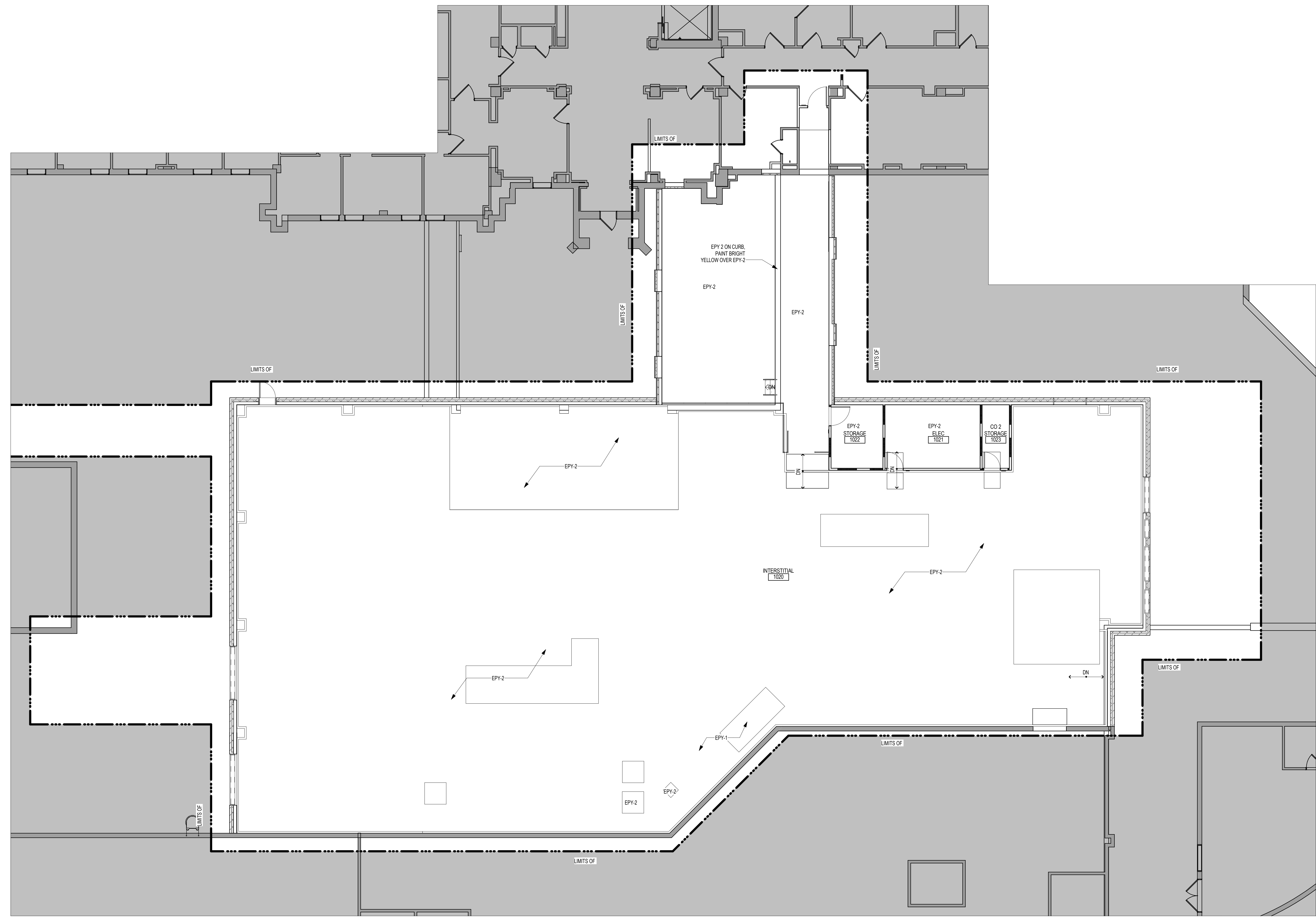
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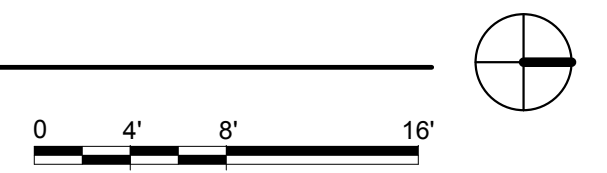
Project Number  
**438-440**

Building Number  
**5**

Drawing Number  
**AE640**




1 1ST FLOOR FINISH PLAN  
1/8" = 1'-0"



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and Facilities  
Management



U.S. Department  
of Veterans  
Affairs

Drawing Title  
**1ST FLOOR FINISH PLAN**

Approved: \_\_\_\_\_

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

Checked

Drawn  
MP

Project Number  
438-440

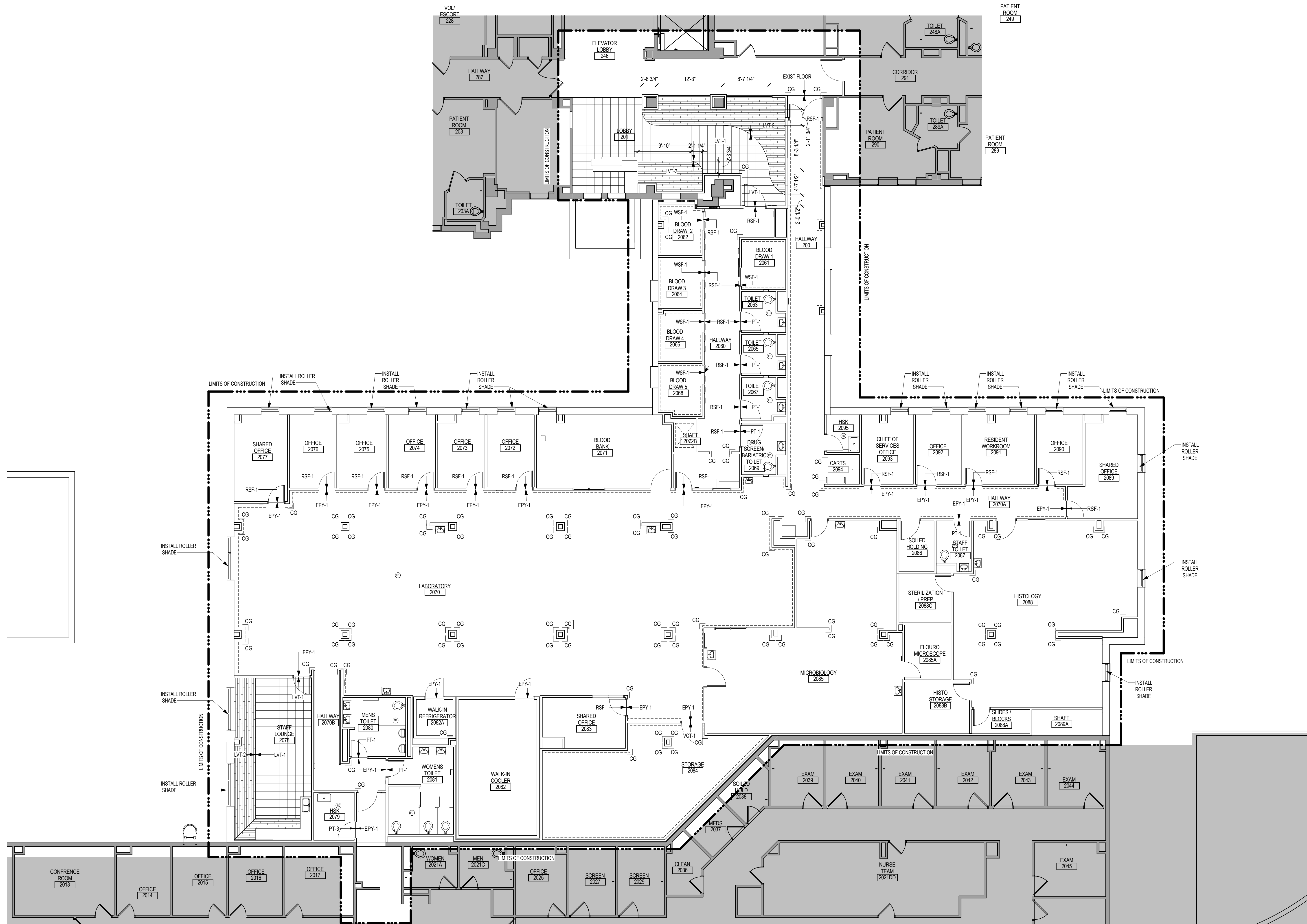
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5

Drawing Number  
**AF111**

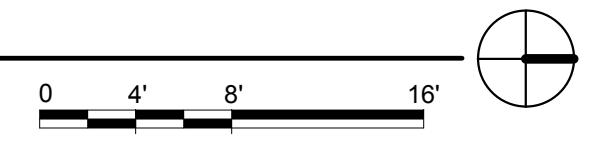


ROOM FINISH LEGEND & ABBREVIATIONS			
CG	CORNER GUARD	(A)	KEYNOTE
---	WALL PROTECTION	←	MATERIAL INSTALL DIRECTION
CPT	VCT		
AT	ACOUSTICAL CEILING (TILE)		
CT	CERAMIC TILE		
EPY	EPOXY FLOORING		
GWB (SC)	GYPSUM WALLBACK SYSTEMS (SPECIAL COATING)		
LVT	LUXURY VINYL TILE		
P	PAINT		
PT	PORCELAIN TILE (FLOOR AND BASE)		
PRB	PROFILE BASE		
RB	RESILIENT BASE		
RES	RESINOUS FLOORING		
RES-W	RESINOUS/EPOXY WALL/CEILING		
RWC	RIGID VINYL WALL COVERING		
RF	RUBBER FLOORING		
RSF	RESILIENT SHEET FLOORING		
S	SOLID SURFACE		
SC	SPECIAL COATING		
SP	SPECIAL FACED		
SVT	SOLID VINYL TILE		
VCT	VINYL COMPOSITION TILE		
WSF	WELDED SEAM SHEET FLOORING (HEAT WELDED WITH ROD)		

NOTE: NOT ALL SYMBOLS MAY BE USED ON EACH PLAN



1 2ND FLOOR FINISH PLAN  
1/8" = 1'-0"

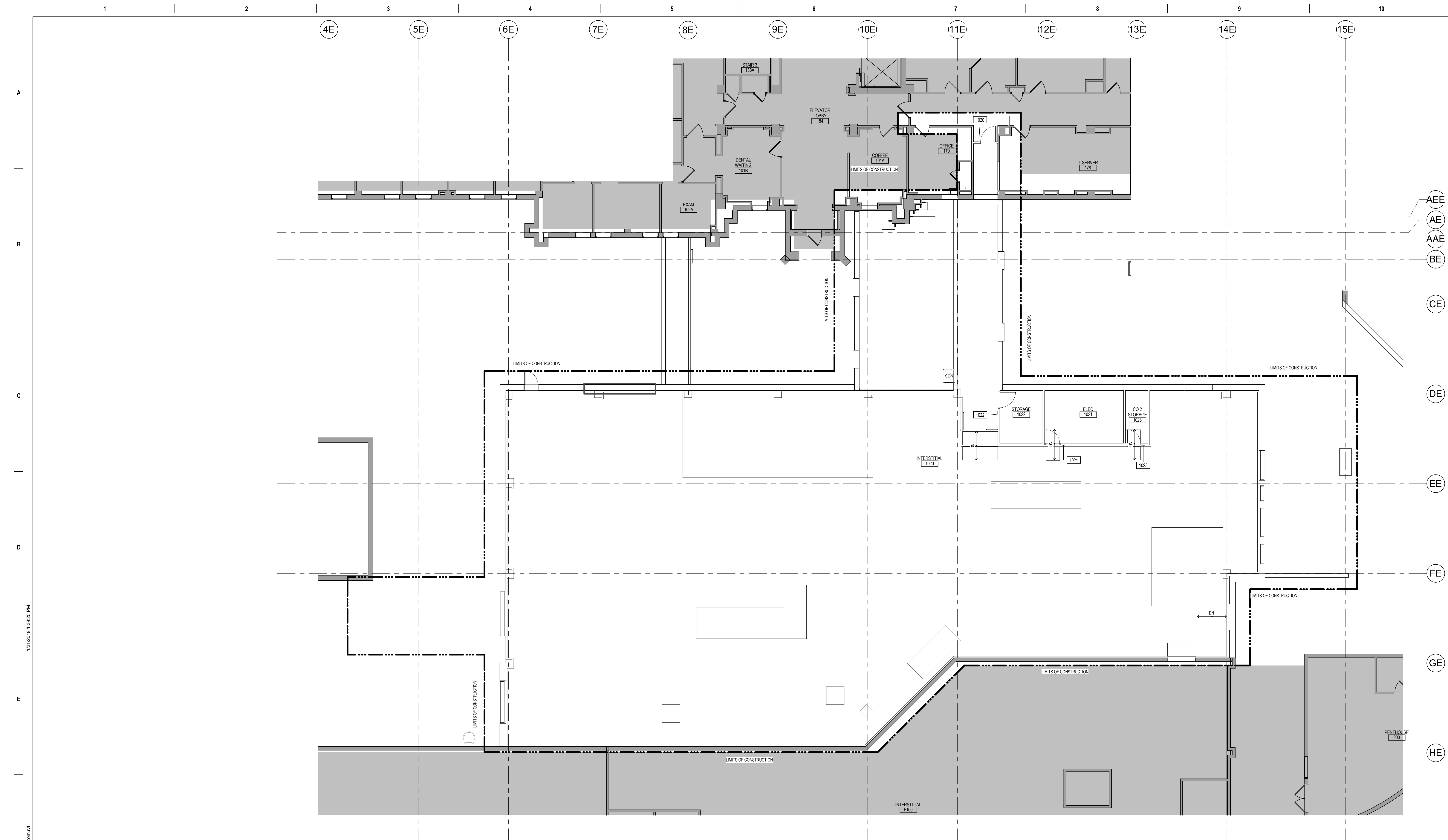


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			Approved:	<b>FULLY SPRINKLERED</b>	Location <b>SIOUX FALLS, SOUTH DAKOTA</b>	Building Number <b>5</b>
<b>AE PROJECT NUMBER: 14567</b>		Issue Date <b>01/11/2019</b>		Checked Drawn <b>MP</b>	Drawing Number <b>AF121</b>	



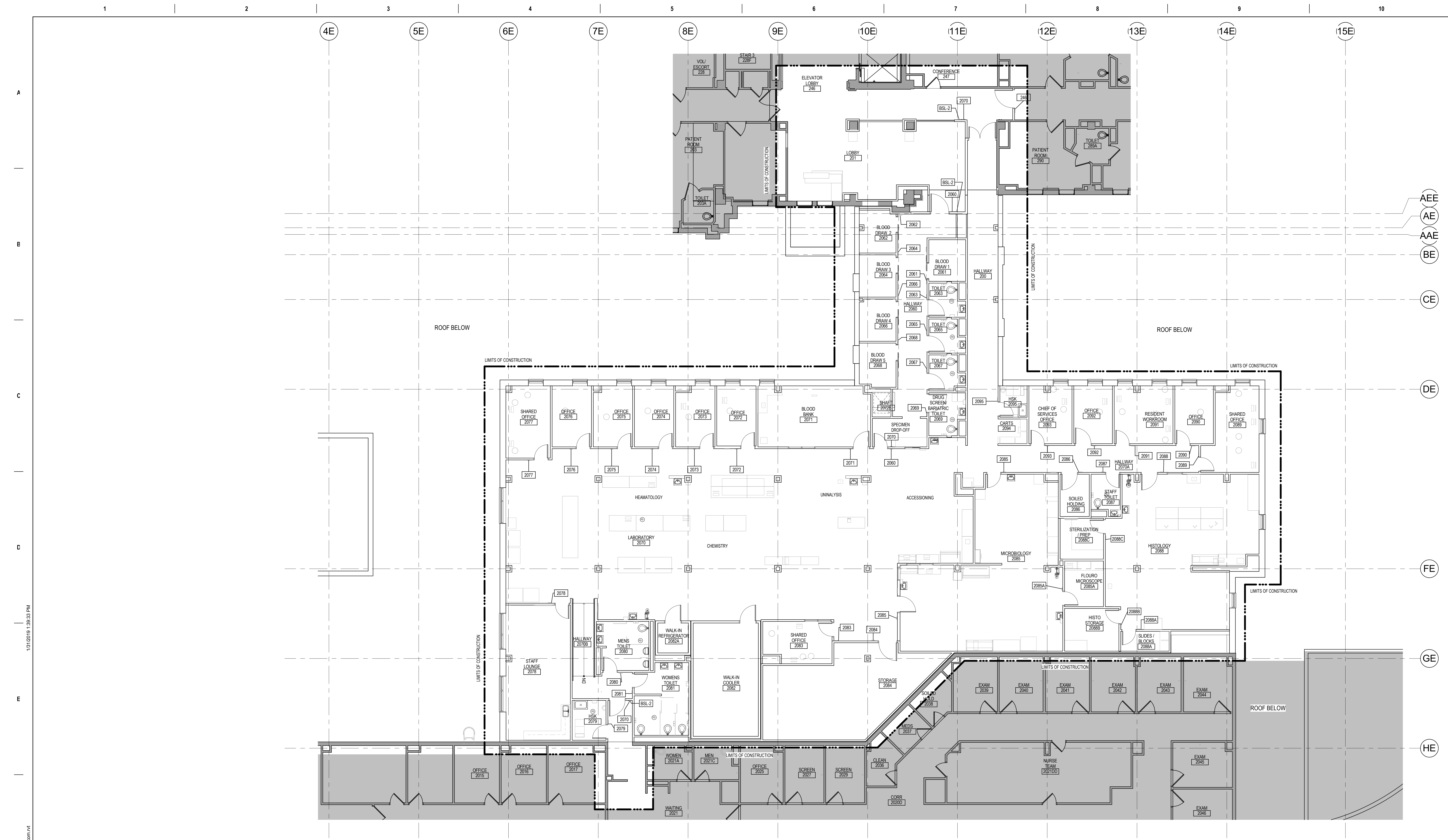


**1** FIRST FLOOR WAYFINDING PLAN  
1/8" = 1'-0"

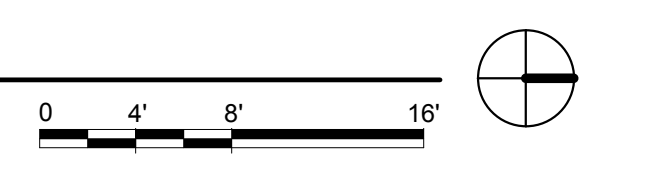
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1 SECOND FLOOR WAYFINDING PLAN  
1/8" = 1'-0"

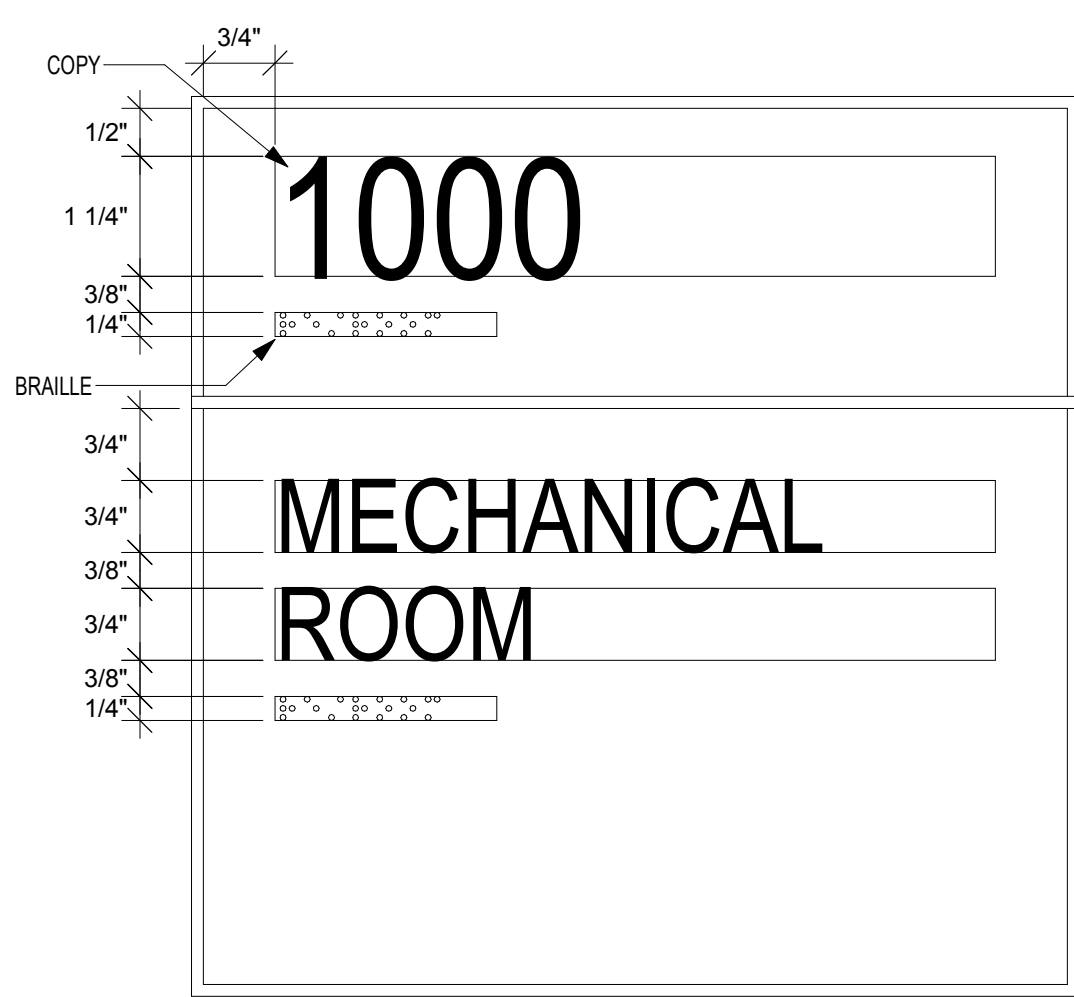


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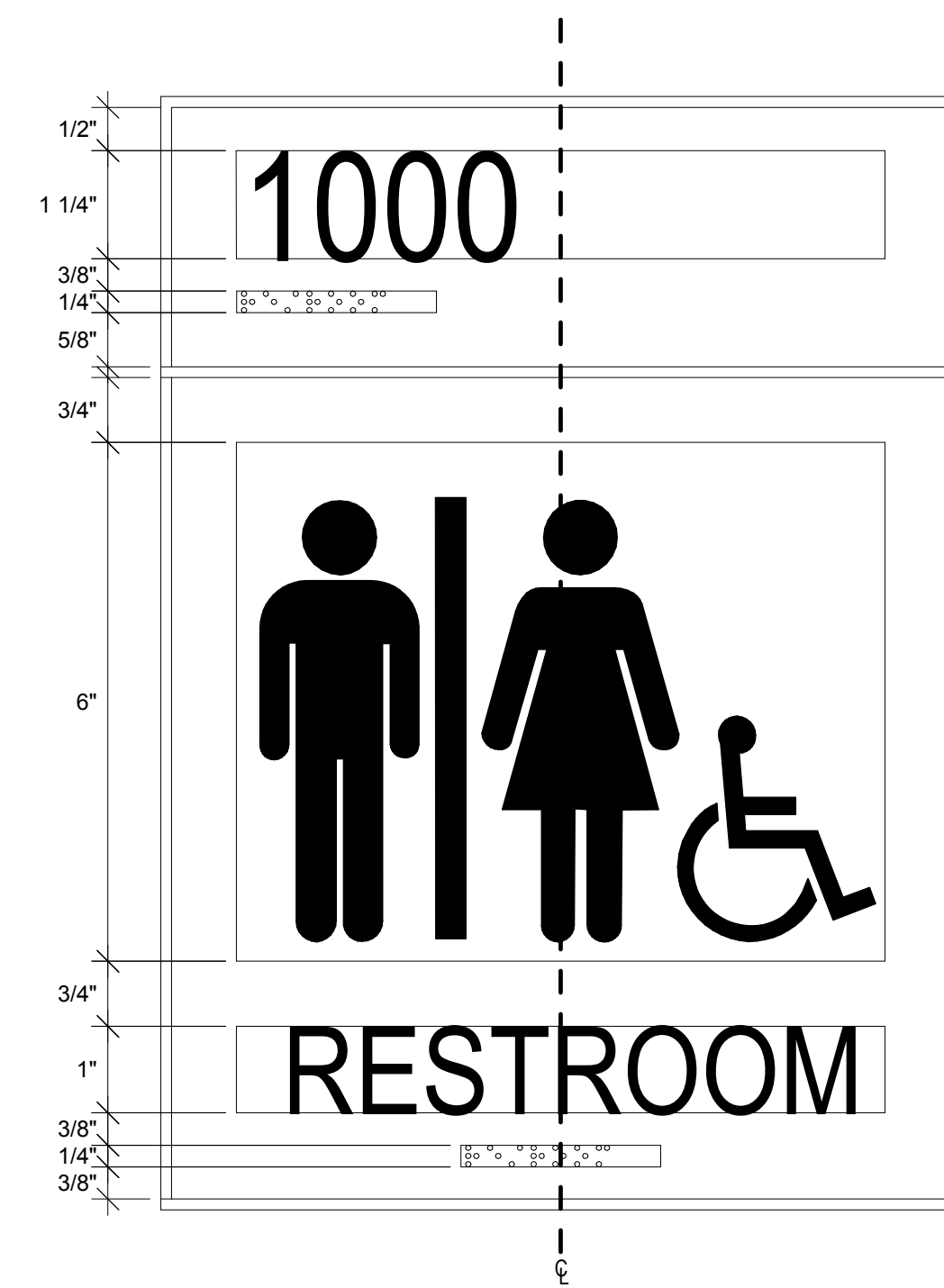
Revisions:	Date:

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			Approved:	<b>FULLY SPRINKLERED</b>	Location <b>SIOUX FALLS, SOUTH DAKOTA</b>	Building Number <b>5</b>
<b>AE PROJECT NUMBER: 14567</b>		Issue Date <b>01/11/2019</b>		Checked Drawn <b>MP</b>	Drawing Number <b>AW121</b>	

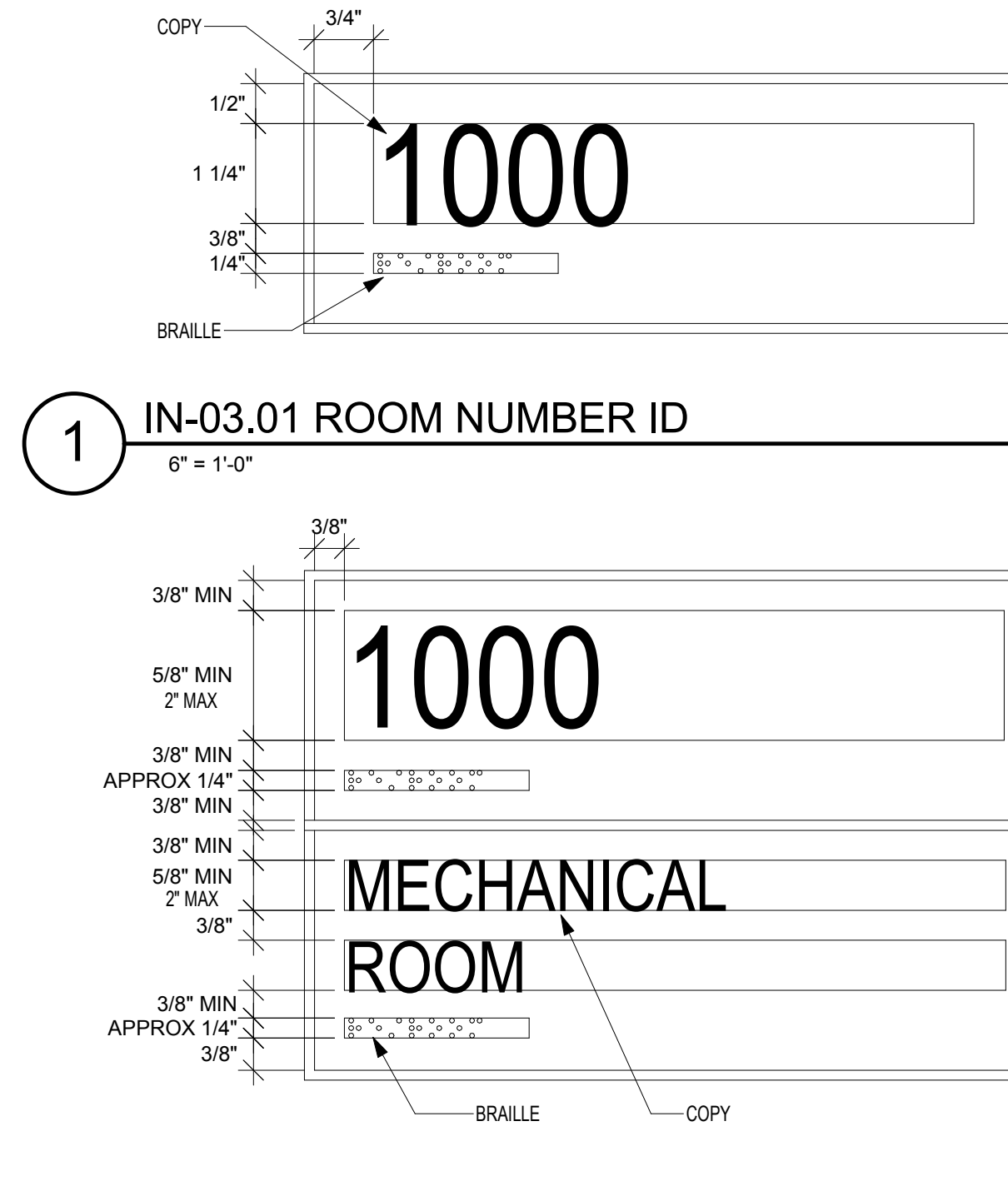
SIGN MESSAGE SCHEDULE					
FLOOR	LOCATION	ROOM NAME	SIGN MESSAGE	TYPE	QUANTITY
FIRST FLOOR	1020	INTERSTITIAL		IN-03.01	1
FIRST FLOOR	1021	ELEC		IN-03.01	1
FIRST FLOOR	1022	STORAGE		IN-04.01	1
SECOND FLOOR	207	HALLWAY		IN-04.01	1
SECOND FLOOR	2060	HALLWAY		IN-04.01	2
SECOND FLOOR	2061	BLOOD DRAW 1		IN-04.01	1
SECOND FLOOR	2062	BLOOD DRAW 2		IN-04.01	1
SECOND FLOOR	2063	TOILET		IN-09.01	1
SECOND FLOOR	2064	BLOOD DRAW 3		IN-04.01	1
SECOND FLOOR	2065	TOILET		IN-09.01	1
SECOND FLOOR	2066	BLOOD DRAW 4		IN-04.01	1
SECOND FLOOR	2067	TOILET		IN-09.01	1
SECOND FLOOR	2068	BLOOD DRAW 5		IN-04.01	1
SECOND FLOOR	2069	DRUG SCREEN/ BARIATRIC TOILET		IN-09.01	1
SECOND FLOOR	2070	LABORATORY		IN-04.01	2
SECOND FLOOR	2071	BLOOD BANK		IN-04.01	1
SECOND FLOOR	2072	OFFICE		IN-04.01	1
SECOND FLOOR	2073	OFFICE		IN-04.01	1
SECOND FLOOR	2074	OFFICE		IN-04.01	1
SECOND FLOOR	2075	OFFICE		IN-04.01	1
SECOND FLOOR	2076	OFFICE		IN-04.01	1
SECOND FLOOR	2077	SHARED OFFICE		IN-04.01	1
SECOND FLOOR	2078	STAFF LOUNGE		IN-04.01	1
SECOND FLOOR	2079	HSK		IN-04.01	1
SECOND FLOOR	2080	MENS TOILET		IN-09.01	1
SECOND FLOOR	2081	WOMENS TOILET		IN-09.01	1
SECOND FLOOR	2083	SHARED OFFICE		IN-04.01	1
SECOND FLOOR	2084	STORAGE		IN-04.01	1
SECOND FLOOR	2085	MICROBIOLOGY		IN-04.01	2
SECOND FLOOR	2085A	FLOURO MICROSCOPE		IN-04.01	1
SECOND FLOOR	2086	SOILED HOLDING		IN-04.01	1
SECOND FLOOR	2087	STAFF TOILET		IN-09.01	1
SECOND FLOOR	2088	HISTOLOGY		IN-04.01	1
SECOND FLOOR	2088A	SLIDES / BLOCKS		IN-04.01	1
SECOND FLOOR	2088B	HISTO STORAGE		IN-04.01	1
SECOND FLOOR	2088C	STERILIZATION / PREP		IN-04.01	1
SECOND FLOOR	2089	SHARED OFFICE		IN-04.01	1
SECOND FLOOR	2090	OFFICE		IN-04.01	1
SECOND FLOOR	2091	RESIDENT WORKROOM		IN-04.01	1
SECOND FLOOR	2092	OFFICE		IN-04.01	1
SECOND FLOOR	2093	CHEF OF SERVICES OFFICE		IN-04.01	1
SECOND FLOOR	2095	HSK		IN-04.01	1



4 IN-04.01 PRIMARY ROOM ID  
6" = 1'-0"



3 IN-09.01 RESTROOM ID  
6" = 1'-0"

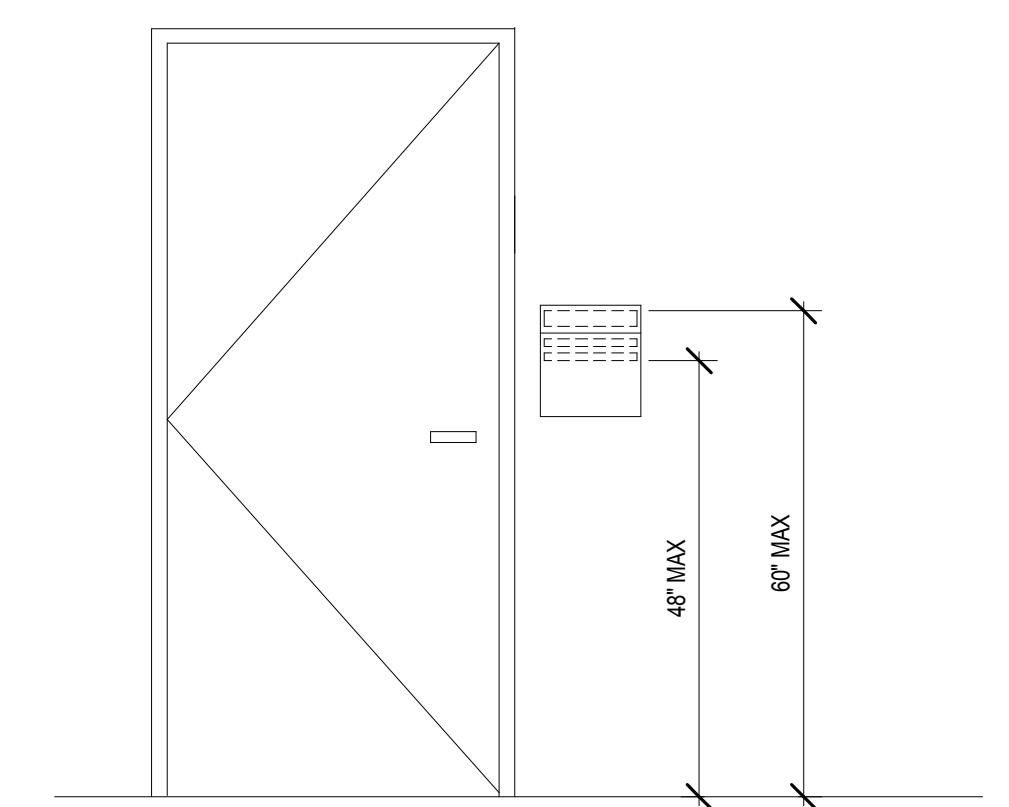


2 ADA STANDARDS  
6" = 1'-0"

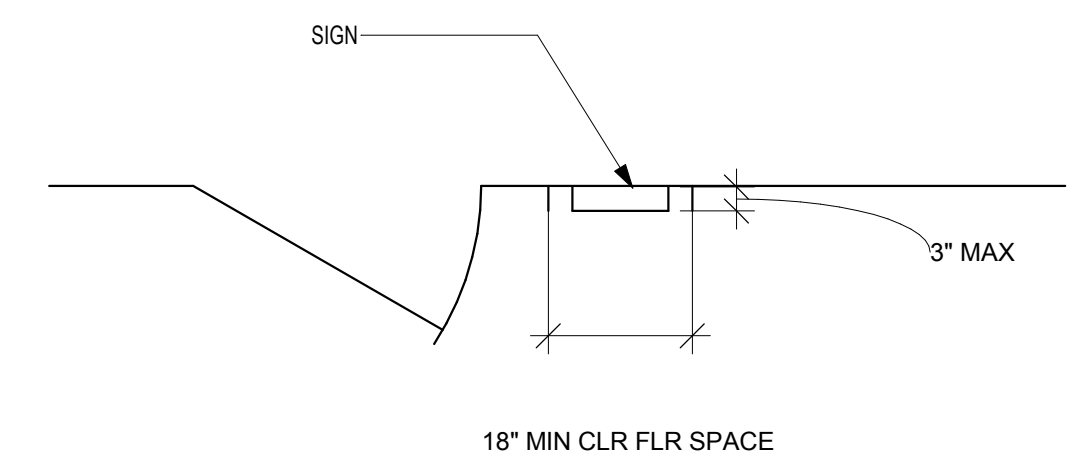
**SIGNAGE NOTES**

- ALL SIGNAGE IDENTIFYING PERMANENT ROOMS SHALL COMPLY WITH 2010 STANDARD FOR ACCESSIBLE DESIGN.
- ALL PERMANENT ROOM SIGNAGE TO HAVE TOP SECTION RAISED TEXT AND LOWER SECTION BRAILLE. BRAILLE TO BE GRADE 2, DOMED OR ROUNDED
- STANDARD FONT TO BE HELVETICA BOLD. OVERHEAD SIGNS TO BE HELVETICA BOLD CONDENSED. SECONDARY LANGUAGE OF MULTILINGUAL SIGNS TO BE HELVETICA REGULAR.
- ALL RAISED LETTERING TO AND NUMBERING TO BE 1/32" MIN ABOVE THEIR BACKGROUND.
- ALL SIGNS TO BE MOUNTED ON LATCH SIDE OF DOOR. IF NO SPACE EXISTS ON LATCH SIDE, MOUNT SIGN TO THE NEAREST ADJACENT WALL. SIGNS MUST BE 2" FROM DOOR JAMB WITH 18" CLEAR FLOOR SPACE FROM CENTER OF SIGN.
- OVERHEAD SIGNS TO HAVE 84" MIN (VA STANDARD) CLEARANCE BETWEEN BOTTOM OF SIGN & FINISHED FLOOR
- SIGN MESSAGE SCHEDULE SUBJECT TO FINAL APPROVAL BY OWNER.
- INTERIOR SIGNS TO BE PROVIDED BY OWNER FOR CONTRACTOR TO INSTALL. (VC)

VA ACQUISITION CODE LEGEND	
CONTRACTOR FURNISHED AND INSTALLED	CC
VA FURNISHED - CONTRACTOR INSTALLED	VC
VA FURNISHED AND INSTALLED	VW
VA FURNISHED - CONTRACTOR INSTALLED WITH CONSTRUCTION FUNDS	V(C)F
VA FURNISHED - VA INSTALLED WITH CONSTRUCTION FUNDS	V(W)F
RELOCATED	R



5 WALL ELEVATION  
1/2" = 1'-0"

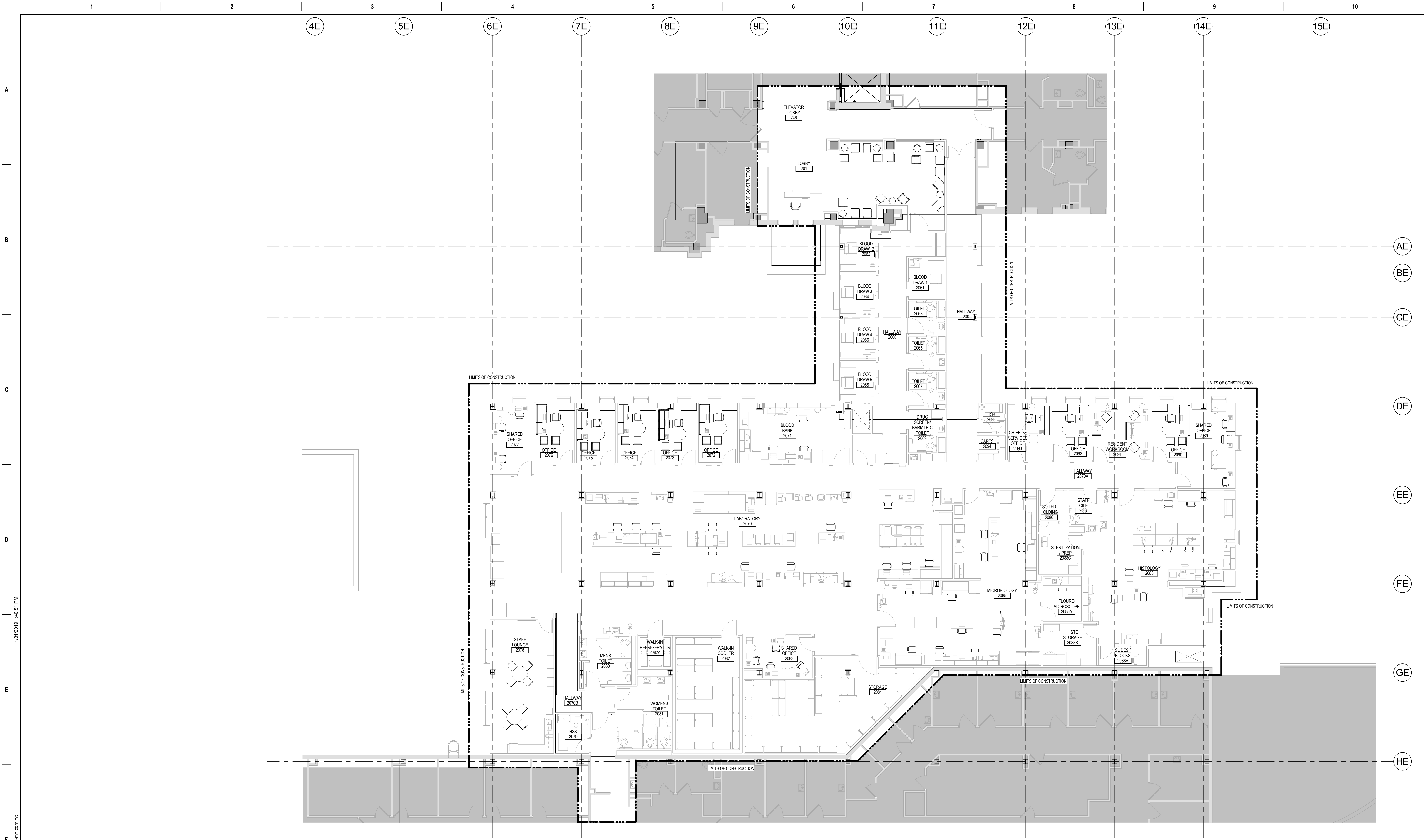


6 PLAN VIEW  
1/2" = 1'-0"

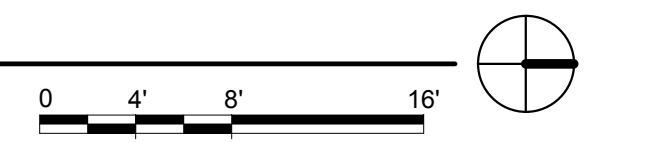
1/31/2019 1:39:38 PM C:\\_Rev\Project\1697\VA\_SIOUX FALLS LAB ADDITION\2017\_gbarbani@ae-mn.com.rvt

Revisions:	Date:

<b>CONSULTANT</b>  15 SUNNEN DR SUITE 104 SAINT LOUIS, MO 63143 PH: 314.645.1132 FAX: 314.645.1173 www.imegcorp.com	<b>ARCHITECT/ENGINEER OF RECORD</b>  Anderson Engineering of Minnesota, LLC 13605 1st Avenue North Suite 100 Plymouth, MN 55441 763-412-4000 (o) 763-412-4090 (f) www.ae-mn.com	STAMP  Office of Construction and Facilities Management  U.S. Department of Veterans Affairs	Drawing Title <b>WAYFINDING MESSAGE                  SCHEDULES &amp; SIGNAGE DETAILS</b>	Phase <b>CONSTRUCTION                  DOCUMENTS</b>	Project Title <b>CONSTRUCT LABORATORY                  ADDITION</b>	Project Number <b>438-440</b>
			Approved:	Fully Sprinklered <b>FULLY SPRINKLERED</b>	Location <b>SIOUX FALLS, SOUTH DAKOTA</b>	Building Number <b>5</b>
AE PROJECT NUMBER: 14567		Issue Date <b>01/11/2019</b>		Checked Drawn <b>MP</b>	Drawing Number <b>AW601</b>	



1 2ND FLOOR FURNITURE PLAN  
1/8" = 1'-0"



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Revisions:	Date:

**CONSULTANT**

**IMEG**

15 SUNNEN DR  
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PH: 314.645.1132  
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www.imegcorp.com

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763-412-4000 (o) 763-412-4090 (f)  
www.ae-mn.com

AE PROJECT NUMBER: 14567

**STAMP**

Office of  
Construction  
and Facilities  
Management

**VA** U.S. Department  
of Veterans  
Affairs

Drawing Title  
**2ND FLOOR FURNITURE PLAN**

Approved:

Phase  
**CONSTRUCTION DOCUMENTS**

**FULLY SPRINKLERED**

Project Title  
**CONSTRUCT LABORATORY ADDITION**

Location  
**SIOUX FALLS, SOUTH DAKOTA**

Issue Date  
01/11/2019

Checked

Drawn  
MP

Project Number  
438-440

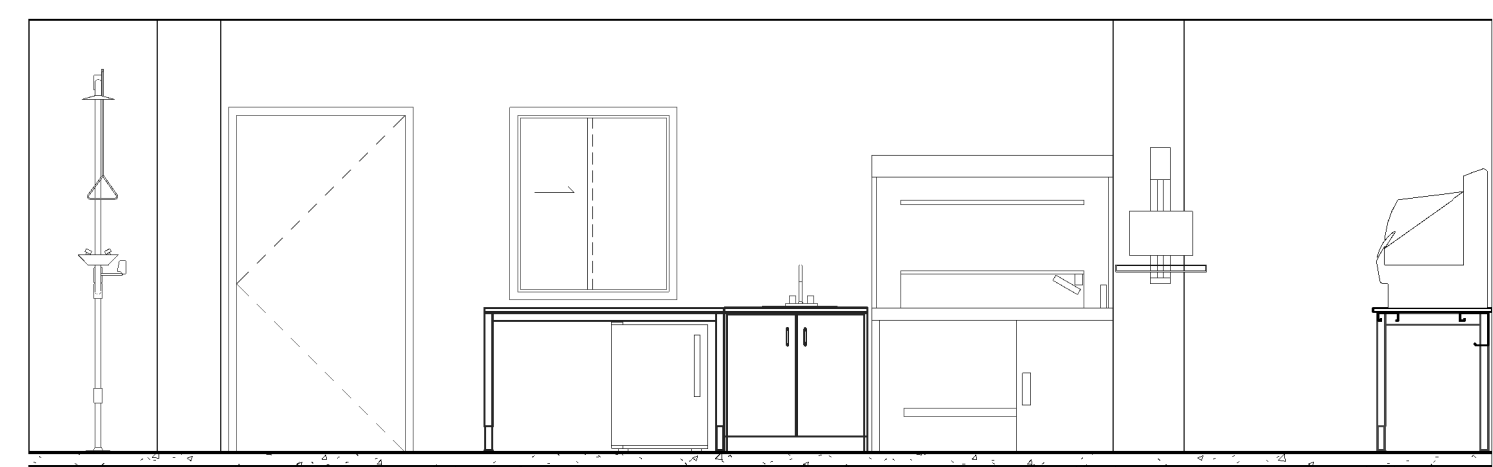
Building Number  
5

Drawing Number  
**IF121**



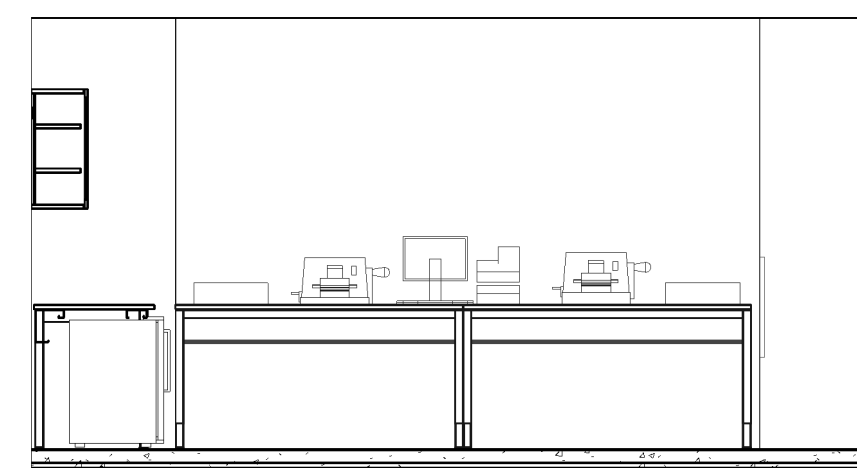
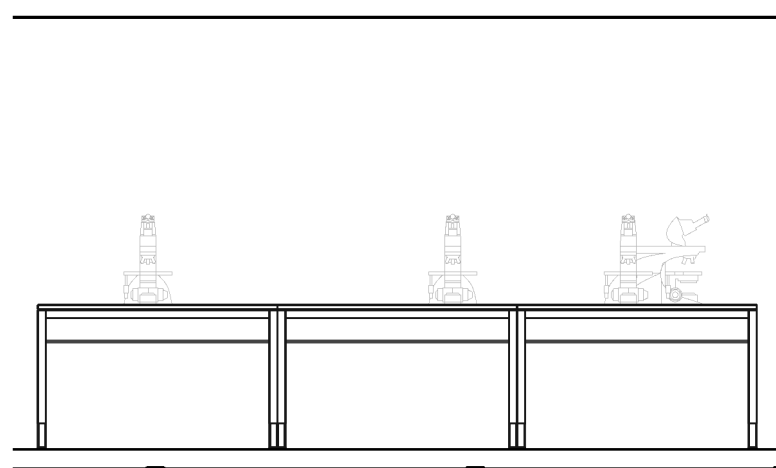






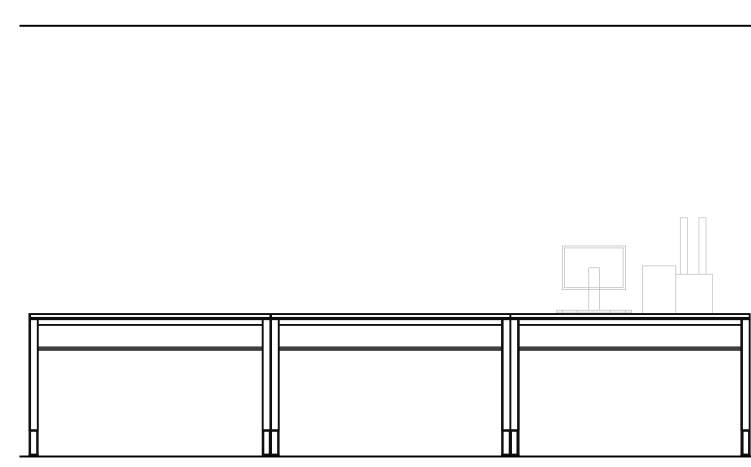
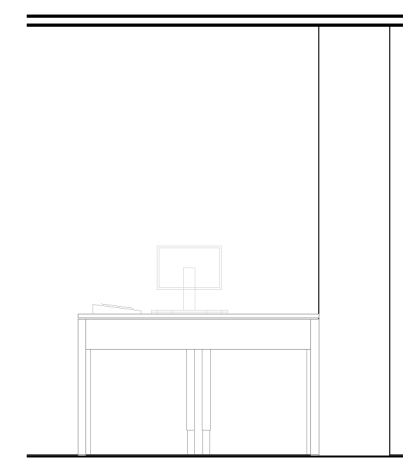
3 ELEVATION - EQUIPMENT HISTOLOGY 2090 - NORTH  
1/4" = 1'-0"

2 ELEVATION - EQUIPMENT HISTOLOGY 2090 - WEST  
1/4" = 1'-0"



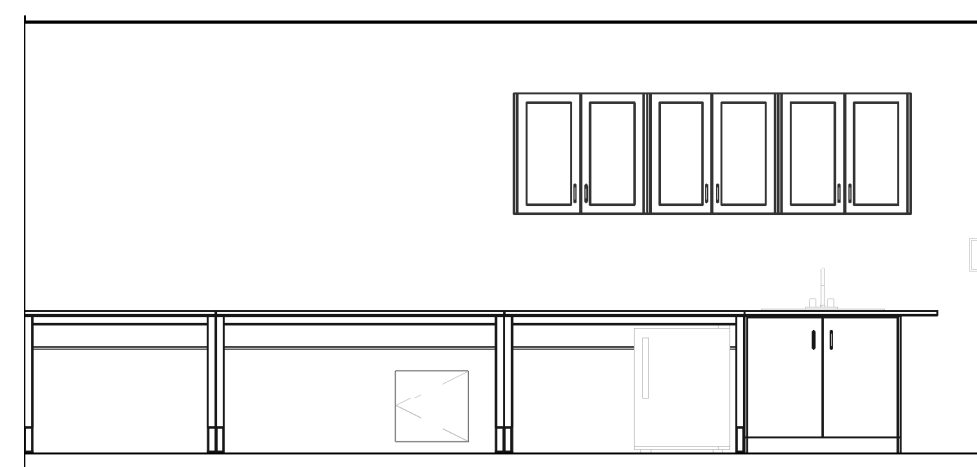
5 ELEVATION - EQUIPMENT HISTOLOGY 2090 (DOUBLE ISLAND) - WEST  
1/4" = 1'-0"

4 ELEVATION - EQUIPMENT HISTOLOGY 2090 EMBEDDING - EAST  
1/4" = 1'-0"

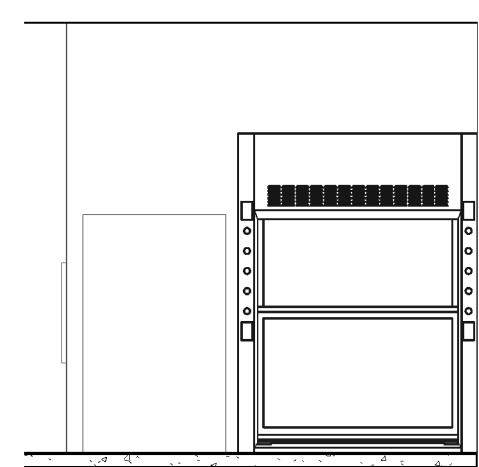


7 ELEVATION - EQUIPMENT HISTOLOGY 2090 WORKSTATION - EAST (TYP)  
1/4" = 1'-0"

6 ELEVATION - EQUIPMENT HISTOLOGY 2090 (DOUBLE ISLAND) - EAST  
1/4" = 1'-0"



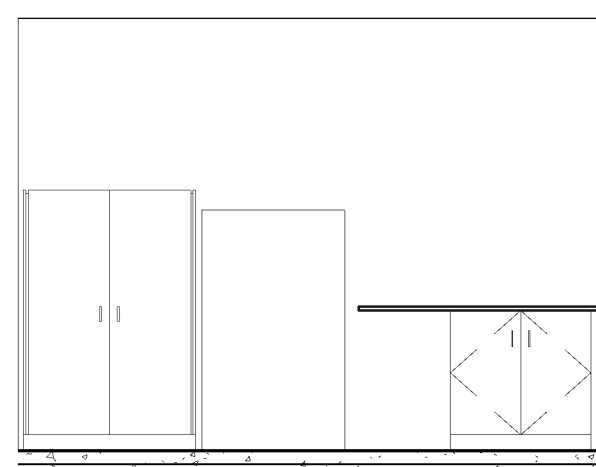
10 ELEVATION - EQUIPMENT HISTOLOGY 2090 SLIDE STAINING - EAST  
1/4" = 1'-0"



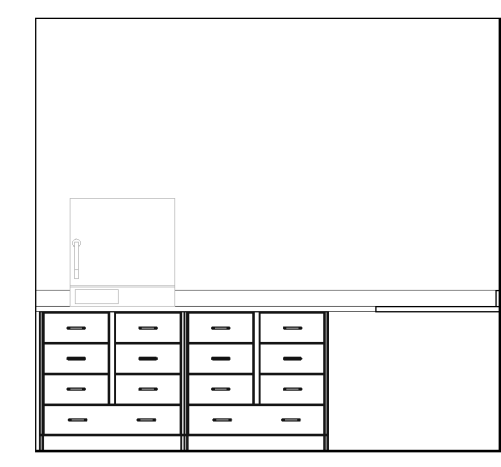
9 ELEVATION - EQUIPMENT HISTOLOGY 2090 HOOD & STAINER - WEST  
1/4" = 1'-0"



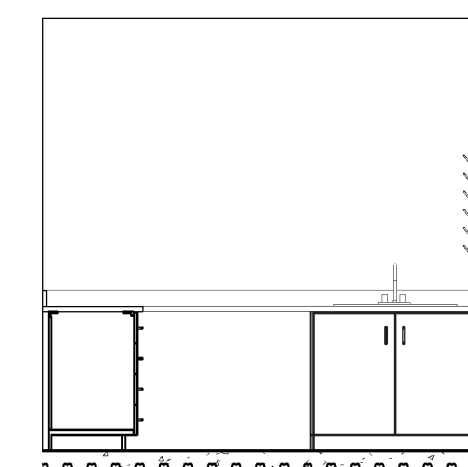
8 ELEVATION - EQUIPMENT HISTOLOGY 2090 - SOUTH  
1/4" = 1'-0"



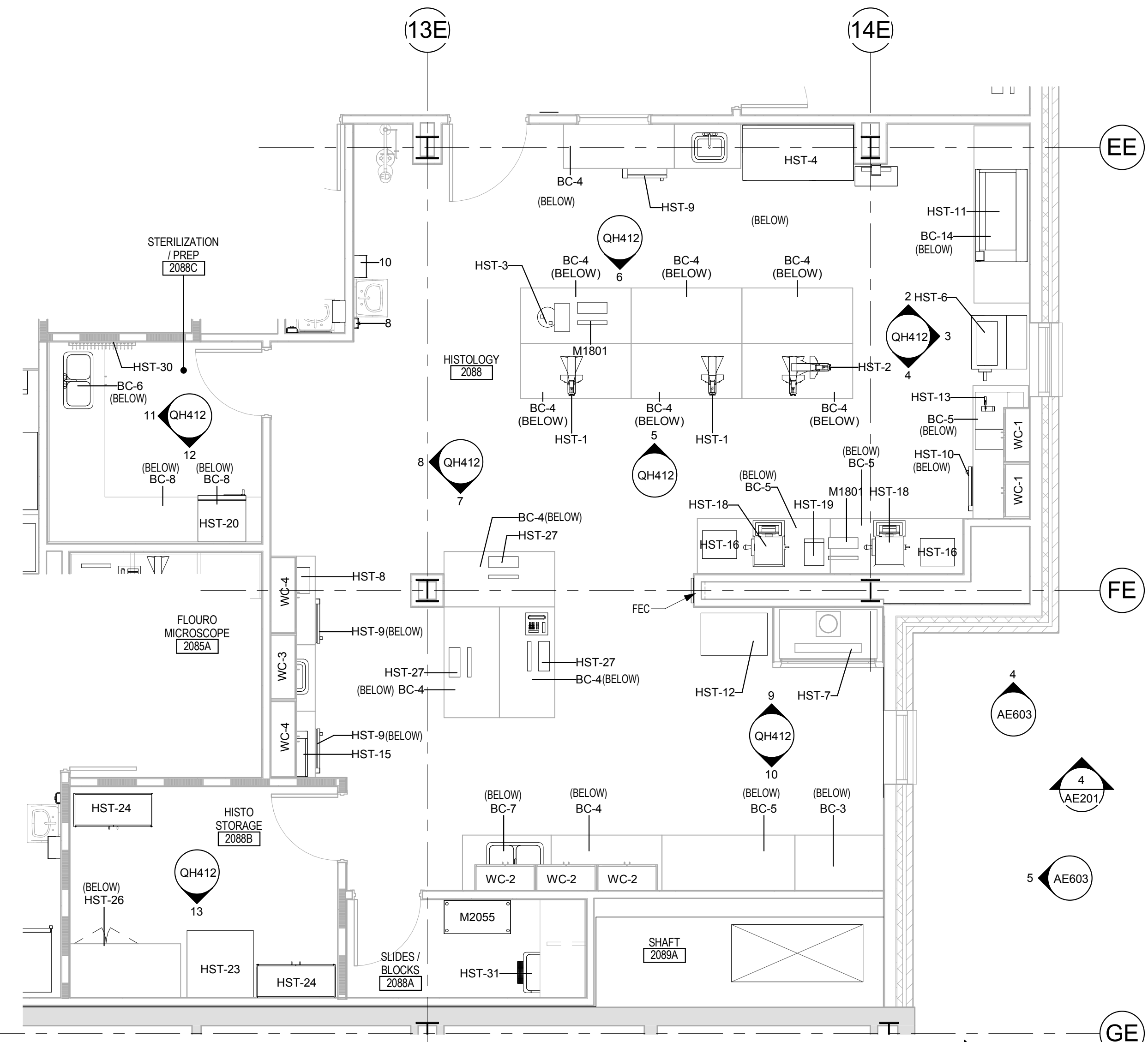
13 ELEVATION - EQUIPMENT HISTO STORAGE 2090B - EAST  
1/4" = 1'-0"



12 ELEVATION - EQUIPMENT STERILIZATION/ PREP 2090C - EAST  
1/4" = 1'-0"



11 ELEVATION - EQUIPMENT STERILIZATION/ PREP 2090C - SOUTH  
1/4" = 1'-0"



1 ENLARGED EQUIPMENT PLAN - HISTOLOGY  
1/4" = 1'-0"

VA ACQUISITION CODE LEGEND table with columns for acquisition code and description.

EQUIPMENT SCHEDULE table listing equipment names, acquisition codes, and quantities.

EQUIPMENT SCHEDULE table listing equipment names, acquisition codes, and quantities.

15/11/2019 14:48 PM  
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Revisions table with columns for revision number, description, and date.

CONSULTANT logo and contact information for IMEG.

ARCHITECT/ENGINEER OF RECORD logo and contact information for Anderson Engineering of Minnesota, LLC.

STAMP area with signature and license information for Tom Olesak.

Office of Construction and Facilities Management logo and VA U.S. Department of Veterans Affairs text.

Drawing Title: ENLARGED EQUIPMENT PLANS & ELEVATIONS - HISTOLOGY. Includes approval signature.

Phase: CONSTRUCTION DOCUMENTS. Fully Sprinklered.

Project Title: CONSTRUCT LABORATORY ADDITION. Location: SIOUX FALLS, SOUTH DAKOTA. Issue Date: 01/11/2019.

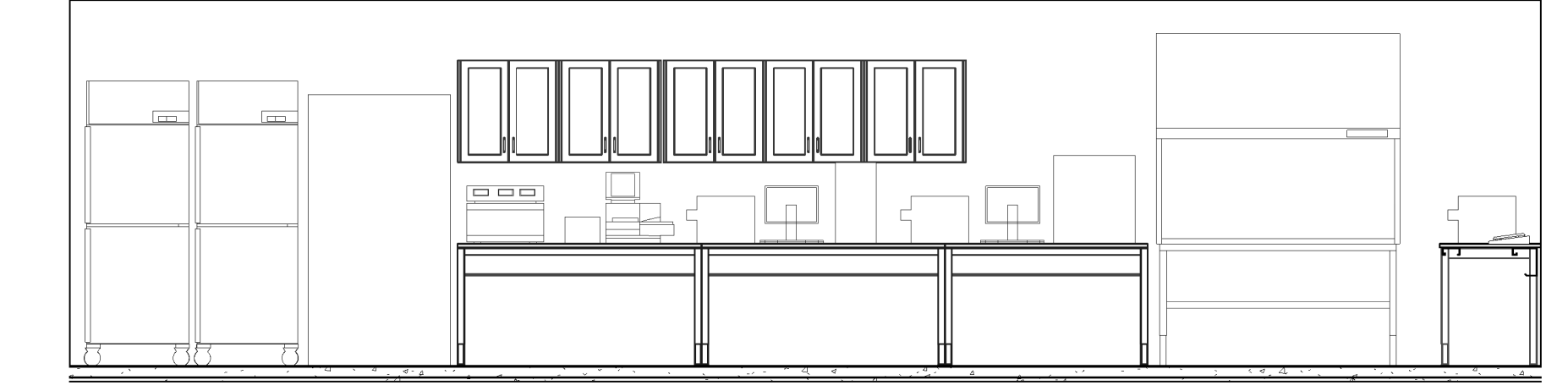
Project Number: 438-440. Building Number: 5. Drawing Number: QH412.



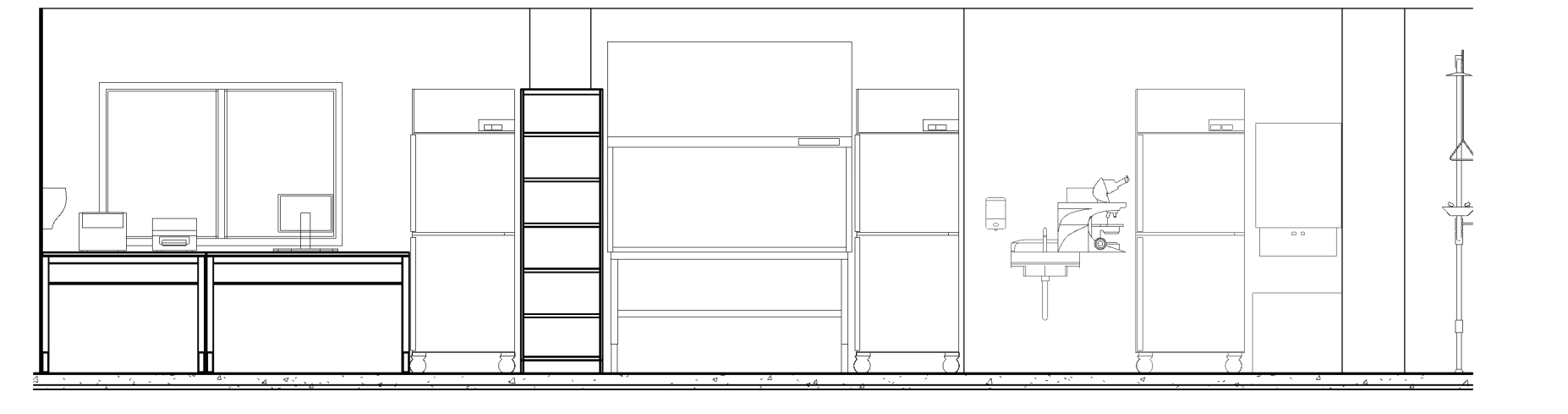
VA ACQUISITION CODE LEGEND

CONTRACTOR FURNISHED AND INSTALLED	CC
VA FURNISHED - CONTRACTOR INSTALLED	VC
VA FURNISHED AND INSTALLED	WV
VA FURNISHED - CONTRACTOR INSTALLED WITH CONSTRUCTION FUNDS	WV(CF)
VA FURNISHED - VA INSTALLED WITH CONSTRUCTION FUNDS	WV(CF)
RELOCATED	R

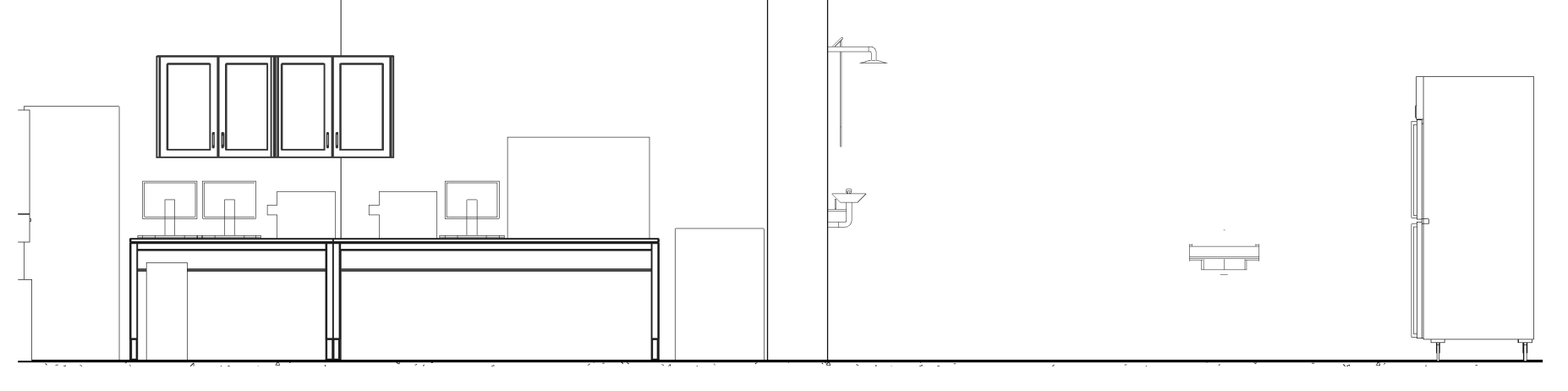
EQUIPMENT SCHEDULE				
EQUIPMENT #	EQUIPMENT NAME	ACQUISITION CODE	QTY	
1	TELEPHONE, DESK	WV	6	CCM-8
2	PRINTER	WV	2	CCM-9
3	SANITARY NAPKIN DISPOSAL	CC	8	CCM-10
4	TWELVE TISSUE DISPENSER	CC	8	CCM-11
5	GRAB BAR 42"	CC	7	CCM-15
6	GRAB BAR 36" W	CC	10	CCM-18
7	SOAP DISPENSER	WV	20	CCM-22
8	MIRROR	CC	10	CCM-23
9	PAPER TOWEL DISPENSER	WV	17	CCM-24
10	WASTER PAPER BASKET	WV	8	CCM-25
11	12x12 RECESSED SHELF	CC	4	EQ-1
12	TELEPHONE, WALL MOUNTED		7	EQ-2
13	SHELVING 48" x 18"		49	EQ-3
14	HAND SANITIZER	WV	1	F2015
15	CART JANITOR	WV	2	F2055
16	MOP BUCKET	WV	2	HEAM-1
17	SHELF WITH MOP AND BROOM HOLDER	CC	2	HEM-2
18	GLOVE DISPENSER	WV	2	HEM-3
19	LOCKER 2 PERSON	CC	12	HEM-4
20	WASTE BAG FRAME WITH LID	WV	1	HEM-5
21	HAMPER MOBILE LINEN	WV	1	HEM-6
22	TRASH CAN	WV	1	HEM-7
23	WASTER PAPER BASKET	WV	21	HEM-8
24	PNEUMATIC TUBE STATION	CC	1	HEM-9
25	TELEPHONE, DESK	WV	25	HEM-10
26	COMPUTER WORKSTATION	R	3	HEM-11
27	PRINTER	R	1	HEM-14
28	HOOD	WV	1	HEM-15
29	REFRIGERATOR - UNDERCOUNTER	R	1	HEM-16
30	REFRIGERATOR - UNDERCOUNTER	R	1	HST-1
31	REFRIGERATOR - FULL SIZE	R	1	HST-2
32	CENTRIFUGE	R	1	HST-3
33	FFP THAWER	R	2	HST-4
34	PLATELET AGITATOR/INCUBATOR	R	1	HST-5
35	REFRIGERATOR - FULL SIZE	R	1	HST-6
36	REFRIGERATOR - UNDERCOUNTER	R	2	HST-7
37	FREEZER - UNDERCOUNTER	R	2	HST-8
38	ICE MACHINE	R	1	HST-9
39	SEROPUFE	R	2	HST-10
40	SEROPUFE/PLASMAFUFE	R	1	HST-11
41	SLEB STAINER	R	1	HST-12
42	PRINTER, VBECS	R	2	HST-13
43	PRINTER, CAUTION TAGS	R	1	HST-15
44	PRINTER, LABEL	WV-R	2	HST-16
45	TUBE SEALER	WV-R	1	HST-18
46	COMPUTER WORKSTATION	WV-R	3	HST-19
47	MTS INCUBATOR	WV-R	1	HST-20
48	WHITEBOARD		1	HST-23
49	BASE CABINET - 36"W 2 DOOR	WV	4	HST-24
50	BASE CABINET - 18"W 4 DRAWER	WV	3	HST-26
51	TABLE SYSTEM 48"W	WV	4	HST-27
52	TABLE SYSTEM 60"W	WV	30	HST-30
53	TABLE SYSTEM 72"W	WV	22	HST-31
54	BASE CABINET - 42"W 2 DOOR	WV	1	K1552
55	BASE CABINET - 36"W 2 DOOR	WV	1	K4985
56	BASE CABINET - 36"W 1 DRAWER	WV	2	L0001
57	TABLE SYSTEM WITH BACK 72"W	WV	2	M0505
58	SHelf FOR TABLE SYSTEM	WV	2	M0512
59	TABLE SYSTEM 48"W 20"D	WV	6	M1801
60	TABLE SYSTEM 60"W 20"D	WV	2	M2655
61	TABLE SYSTEM 72"W 20"D	WV	1	MICR-1
62	TABLE SYSTEM 96"W	WV	5	MICR-2
63	PRINTER, LABEL	R	4	MICR-3
64	REFRIGERATOR - UNDERCOUNTER	WV	1	MICR-4
65	PHLEBOTOMY STATION	WV	10	MICR-5
66	CHAIR, BLOOD DONOR, RECLINER	WV	5	MICR-6
67	WALL MOUNTED, COMPUTER WORKSTATION	WV	6	MICR-7
68	ANALYZER CHEMISTRY	R	1	MICR-8
69	ANALYZER CHEMISTRY	R	1	MICR-9
70	ANALYZER - BLOOD GAS	R	1	MICR-10
71	BIOPRE ANALYZER	R	1	MICR-11
72	ANALYZER - BLOOD - HANDHELD	R	3	MICR-12
73	OSMOMETER	R	1	MICR-13
74	CENTRIFUGE	R	1	MICR-13A
75	CENTRIFUGE	R	1	MICR-14
76	STERILIZER	R	1	MICR-15
77	CENTRIFUGE	R	1	MICR-16
78	CENTRIFUGE	R	1	MICR-17
79	CENTRIFUGE - CYTOSPIN	R	1	MICR-18
80	PLASMAFUFE	R	1	MICR-19
81	SHAKER	R	1	MICR-20
82	UPS FOR VITEK MS		1	MICR-24
83	COMPUTER - FOR VITEK MS ANALYZER	R	2	MICR-25
84	COMPUTER WORKSTATION	R	1	MICR-26
85	COMPUTER - FOR CEPHID ANALYZER	R	1	MICR-27
86	COMPUTER WORKSTATION - BACKTEK	R	1	MICR-28
87	COMPUTER - FOR BIOFIRE ANALYZER	R	1	MICR-29
88	COMPUTER WORKSTATION	R	5	MICR-30
89	PRINTER - FOR CEPHID ANALYZER	R	1	MICR-31
90	PRINTER - FOR BACKTEK ANALYZER	R	1	MICR-32
91	PRINTER	R	2	MICR-33
92	PRINTER - FOR BIOFIRE ANALYZER	R	1	MICR-35
93	PRINTER, LABEL	R	1	MICR-37
94	FAX	R	1	MICR-38
95	MICROSCOPE - SINGLE - FLOURO	R	1	MICR-39
96	MICROSCOPE - DOUBLE HEAD	R	2	MICR-40
97	HOOD - BIOSAFETY CABINET	WV	2	MICR-41
98	MICROSCOPE - SINGLE HEAD	R	1	MICR-42
99	OPEN SHELVES	WV	1	MICR-43
100	MICROSCOPE - DOUBLE HEAD	R	3	RMK-1
101	TALL CABINET 33"W	R	2	TC-1
102	CENTRIFUGE	R	1	UA-1
103	REFRIGERATOR, FULL SIZE	R	1	UA-2
104	ANALYZER - URINE	R	1	UA-3
105	ANALYZER - URINE	R	1	UA-4
106	ANALYZER - URINE	R	1	UA-5
107	MICROSCOPE - SINGLE HEAD	R	1	UA-6
108	COMPUTER WORKSTATION	R	1	UA-7
109	HEAT BLOCK INCUBATOR	R	1	UA-8
110	PRINTER	R	1	UA-10
111	WALL CABINET 30"Wx30"H	WV	13	WC-1
112	WALL CABINET 33"Wx30"H	WV	3	WC-2
113	WALL CABINET 30"Wx30"H	WV	4	WC-3
114	WALL CABINET 42"Wx30"H	WV	2	WC-4
115	WALL CABINET 30"Wx24"H	WV	2	WC-5



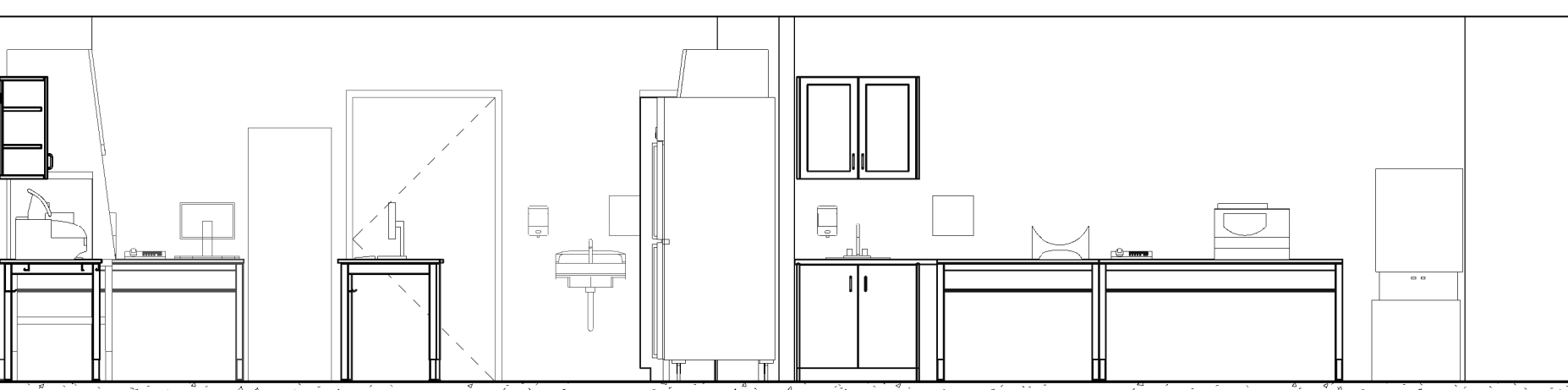
2 ELEVATION - EQUIPMENT MICROBIOLOGY 2084 - EAST 1/4" = 1'-0"



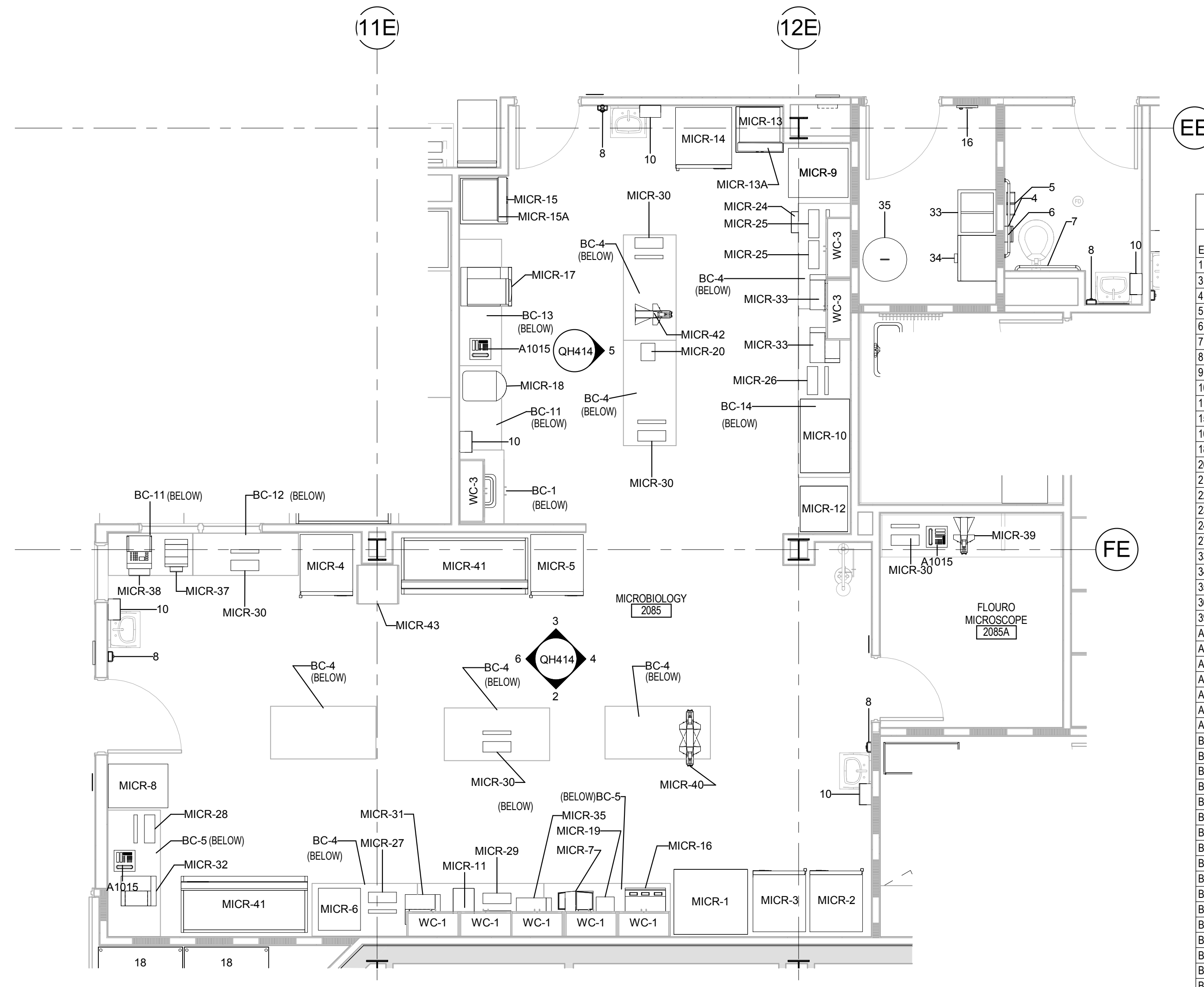
3 ELEVATION - EQUIPMENT MICROBIOLOGY 2084 - WEST 1/4" = 1'-0"



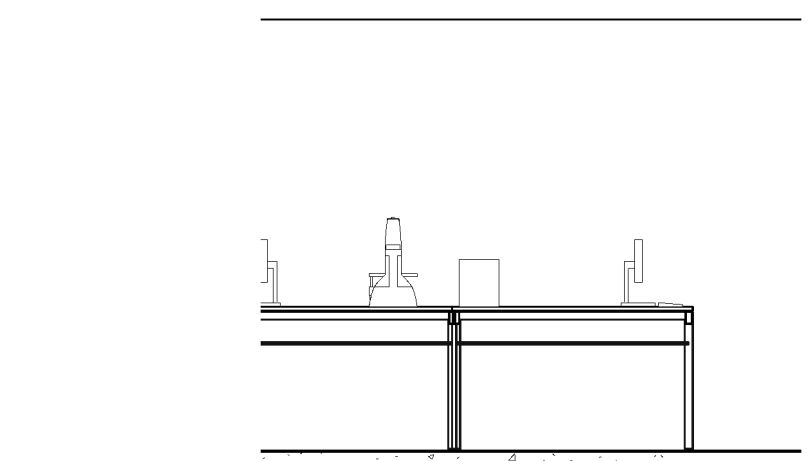
4 ELEVATION - EQUIPMENT MICROBIOLOGY 2084 - NORTH 1/4" = 1'-0"



6 ELEVATION - EQUIPMENT MICROBIOLOGY 2084 - SOUTH 1/4" = 1'-0"



1 ENLARGED EQUIPMENT PLAN - MICROBIOLOGY 1/4" = 1'-0"



5 ELEVATION - EQUIPMENT ISLAND MICROBIOLOGY 2084 - NORTH 1/4" = 1'-0"

CL - Revit Project 1597 - VA - SIOUX FALLS LAB ADDITION 2017 - jpbarnett@ae-mn.com