

Abbreviations

Table of abbreviations for construction documents, including terms like A/C, AB, ABM, ABV, ACST, ACT, ADA, ADJ, etc.

Materials

Table of materials with corresponding symbols and patterns, including UNDISTURBED EARTH, COMPACTED FILL, POROUS FILL, CONCRETE, FACE BRICK, CONCRETE BLOCK CMU, MORTAR / GROUT / DRYWALL, WOOD FRAMING - CONTINUOUS, WOOD BLOCKING OR SHIM, PLYWOOD, PARTICLE BOARD / MDF, FINISH WOOD, BATT OR LOOSE FILL INSULATION, BLOWN INSULATION, RIGID INSULATION, SHEET METAL, GLASS ELEVATION, and ACOUSTICAL TILE.

North River Properties

Two Portland Square Office Renovations

CONSTRUCTION DOCUMENTS

Portland, Maine

July 26, 2019

Symbols Legend

Table of symbols legend including symbols for EXISTING PARTITION OR WALL, PARTITION, CMU PARTITION OR WALL, BRICK MASONRY VENEER, etc.

Architect

Winton Scott Architects
5 Milk Street
Portland, Maine 04101
207-774-4811

Mechanical Engineer

Mechanical Systems Engineers
Royal River Center Unit #10
10 Forest Falls Drive
Yarmouth, Maine 04096
207-846-1441

Electrical Engineer

Bartlett Design
5 Palmer Street
Bath, Maine 04530
207-433-5447

DRAWING LIST

Table of drawing list including G 101 CODE INFORMATION PLAN, D 101 DEMO PLAN, A 101 FLOOR PLAN, A 201 REFLECTED CEILING PLAN, A 301 BUILDING SECTION / FINISH SCHEDULE, A 401 PARTITION TYPES, A 501 DOOR SCHEDULE, A 601 INTERIOR ELEVATIONS, A 602 INTERIOR DETAILS, A 701 FINISH SCHEDULE + SIGNAGE, A 702 FLOOR FINISH PLAN, P1 PLUMBING DRAIN AND VENT PLAN, P2 PLUMBING WATER PLAN, P3 PLUMBING NOTES, DETAIL + SCHEDULE, MD1 MECHANICAL FLOOR PLAN DEMOLITION, M1 MECHANICAL FLOOR PLAN NEW WORK, M2 MECHANICAL DETAILS + SCHEDULES, E 101 ELECTRICAL POWER + SYSTEMS PLAN, E 102 LIGHTING PLAN, E 103 ELECTRICAL DETAILS, E 104 SECURITY SYSTEM PLAN

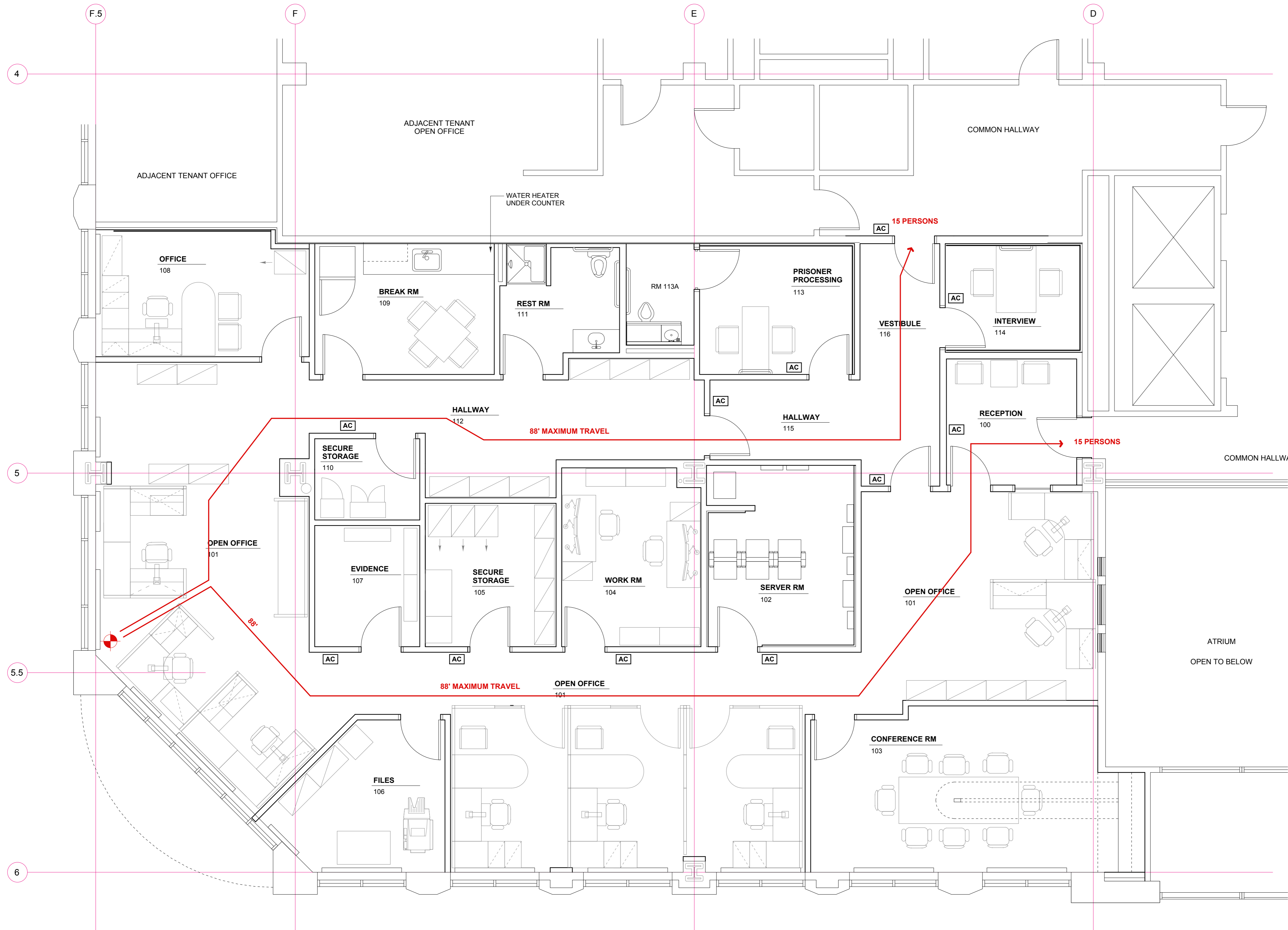


Winton Scott Architects
5 Milk Street
Portland, Maine 04101
207 774 4811
www.wintonscott.com

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F.5
4
5
5.5
6

LEGEND
[AC] ACCESS CONTROL CARD READER

CODE INFO

| | | | |
|--------------|-----------------|-----|-------------------|
| OFFICE USE | 2,975 SF | 100 | 30 PERSONS |
| STORAGE USE | 445 SF | | |
| TOTAL | 3,420 SF | | 30 PERSONS |

BUILDING INFO

| | |
|-------------------|--------------|
| NUMBER OF STORIES | 7 |
| PROJECT LOCATION | SECOND FLOOR |
| CONSTRUCTION TYPE | 222 / 1B |
| SPRINKLERED | YES |



0 1 2 3 4 8

2 Portland Square
Portland, Maine

Office
Renovations

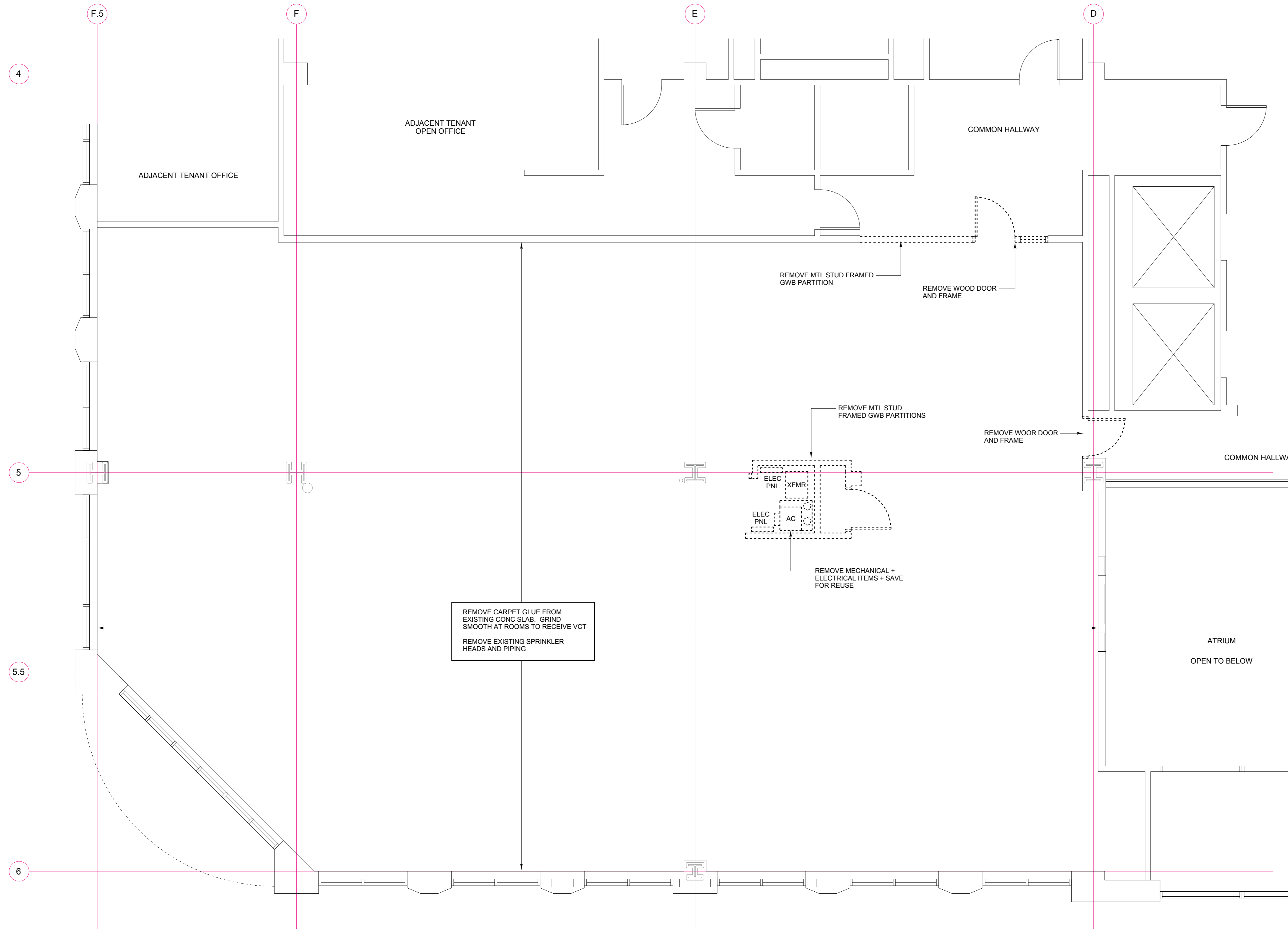
Second Floor

Code Information
Plan

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

G 101

July 26, 2019



DEMOLITION PLAN
1/4" = 1' - 0"

- NOTES**
- GC SHALL PROVIDE REPLACEMENT OF FIREPROOFING AT AREAS WHERE EXISTING IS DISLODGED. PRODUCT: "RETROGUARD" BY GCP APPLIED TECHNOLOGIES.
 - AT REMOVED ITEMS PATCH ADJACENT SURFACES TO MATCH EXISTING EXACTLY. PREPARE FOR PROPOSED OPENINGS WITH MATERIALS AND SURFACES TO MATCH EXISTING.



Winton Scott Architects
5 Milk Street
Portland, Maine 04101
207 774 4811
www.wintonsscott.com

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Second Floor

Demolition
Plan

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

D 101

July 26, 2019



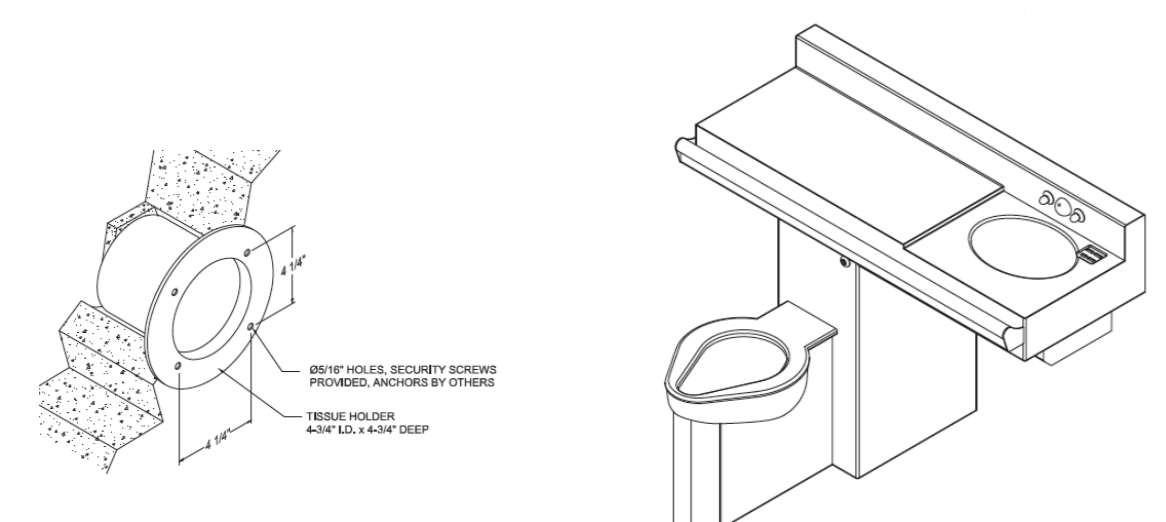
GENERAL NOTES

- GC SHALL PROVIDE REPLACEMENT OF FIREPROOFING AT AREAS WHERE EXISTING IS DISLODGED. PRODUCT: "RETROGUARD" BY GCP APPLIED TECHNOLOGIES.
- AT REMOVED ITEMS PATCH ADJACENT SURFACES TO MATCH EXISTING EXACTLY.

LEGEND

- EXPANDED METAL MESH FULL HEIGHT
- BALLISTIC PANELS 8' HIGH + EXPANDED METAL MESH FULL HEIGHT
- TYPICAL PARTITION EXTENDS TO UNDERSIDE OF DECK ABOVE. WALLS WITH THIS SYMBOL EXTEND 4" ABOVE HIGHEST ADJACENT CEILING. BRACE TO UNDERSIDE OF DECK ABOVE 4' O.C.
- ACOUSTIC BATT FULL HT WALL FILL WITH INSTALLATION CLIPS TO PREVENT SAGGING AND ACOUSTIC SEALANT EACH SIDE TOP AND BOTTOM
- VBL PROVIDE BUILDING STANDARD VERTICAL BLIND

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



PLUMBING FIXTURE P7
WILLOUGHBY INDUSTRIES
RTH2

PLUMBING FIXTURE P5
WILLOUGHBY INDUSTRIES
4896 SERIES

PLUMBING FIXTURE SCHEDULE

| KEY | ITEM | DESCRIPTION |
|-----|--------------------------------------|--|
| P1 | SINGLE BOWL UTILITY SINK - ADA | STAINLESS STEEL WITH FAUCET + SPRAY |
| P2 | LAVATORY - ADA | UNDERMOUNT IN SOLID SURFACING COUNTER |
| P3 | FLOOR MOUNTED TANK TYPE TOILET - ADA | LOW FLOW WATER SAVER |
| P4 | SHOWER - ADA | HAND HELD HEAD / FOLD DOWN SEAT |
| P5 | COMBI SECURITY FIXTURE - ADA | STAINLESS STEEL WITH BUILT-IN GRAB BAR |
| P6 | GRAB BAR | COMBI FIXTURE ACCESSORY |
| P7 | WALL RECESSED TOILET PAPER HOLDER | COMBI FIXTURE ACCESSORY |
| P8 | SURFACE MOUNTED MIRROR | COMBI FIXTURE ACCESSORY |
| P9 | GARBAGE DISPOSAL | 1/2 HP INSINKERATOR |

EQUIPMENT SCHEDULE

| KEY | ITEM | FURNISHED BY | INSTALLED BY | MFR | MODEL | CONNECTIONS | NOTES |
|-----|------------------------------|--------------|--------------|------------------|-----------------|-------------|--|
| 1 | 12 CF TOP MOUNT REFRIGERATOR | GC | GC | GE | PER SPECS | C+P | ADA ACCESSIBLE |
| 2 | 50" VIDEO MONITOR | GC | GC | -- | -- | C+P | BY ALLOWANCE SEE SECT 01 21 00 |
| 3 | VIDEO MONITOR CEILING MOUNT | GC | GC | -- | -- | -- | BY ALLOWANCE SEE SECT 01 21 00 |
| 4 | WALL SIGNAGE | GC | GC | -- | -- | -- | BY ALLOWANCE SEE SECT 01 21 00 |
| 5 | BALLISTIC WINDOW | GC | GC | N.A. BULLETPROOF | -- | -- | INCLUDES SSM COUNTER |
| 6 | DEAL TRAY WITH LOCKING COVER | GC | GC | N.A. BULLETPROOF | -- | -- | BUILT INTO #5 ABOVE |
| 7 | 4 COMPARTMENT SIDEARM LOCKER | GC | GC | SENTINEL | WLK24061204KNAB | -- | CL @ 48" AFF / COLOR SELECTED BY ARCHT |

2 Portland Square
Portland, Maine

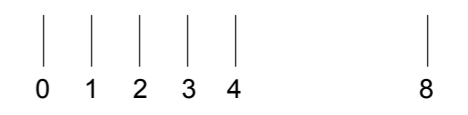
Office Renovations

Second Floor

Floor Plan

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

A 101





Winton Scott Architects
 5 Milk Street
 Portland, Maine 04101
 207 774 4811
 www.wintonscott.com

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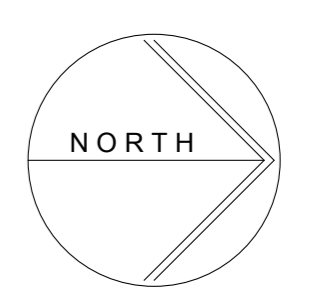
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LEGEND

| | |
|--|----------------------------------|
| | SUPPLY AIR DIFFUSER |
| | RETURN AIR GRILLE |
| | REMOVE EXISTING SPRINKLER HEAD |
| | PROPOSED SPRINKLER HEAD |
| | RECESSED 2 X 2 LED LIGHT FIXTURE |
| | RECESSED 2 X 4 LED LIGHT FIXTURE |
| | LED DOWNLIGHT |
| | LED SURFACE MOUNT DISH LIGHT |

REFLECTED CEILING PLAN
 1/4" = 1' - 0"



2 Portland Square
 Portland, Maine

Office
 Renovations

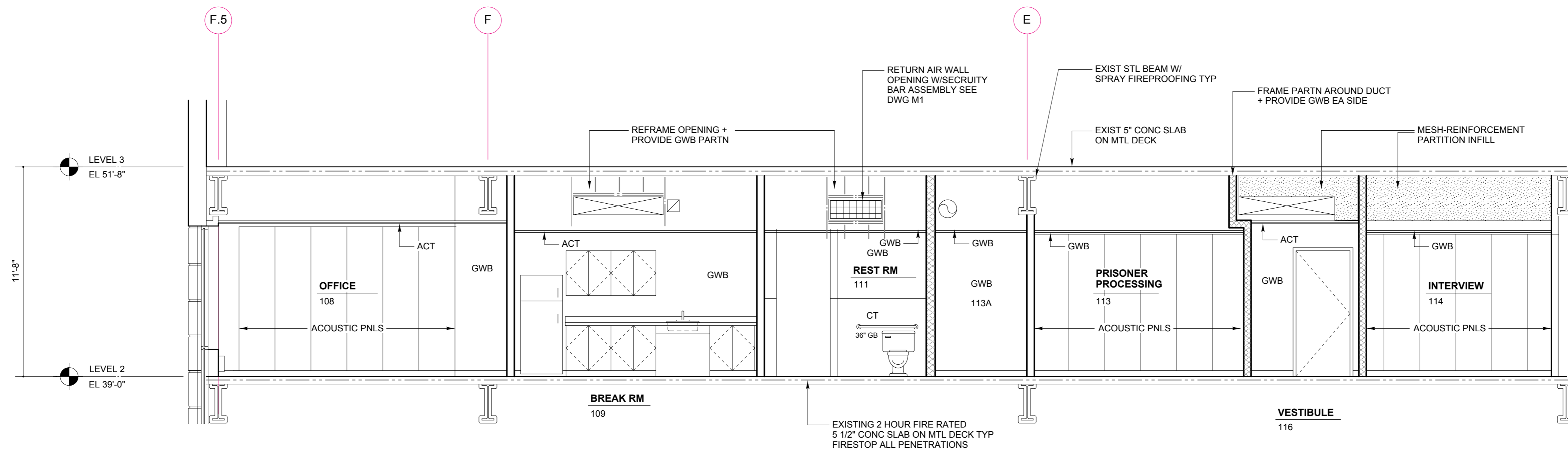
Second Floor

Reflected Ceiling
 Plan

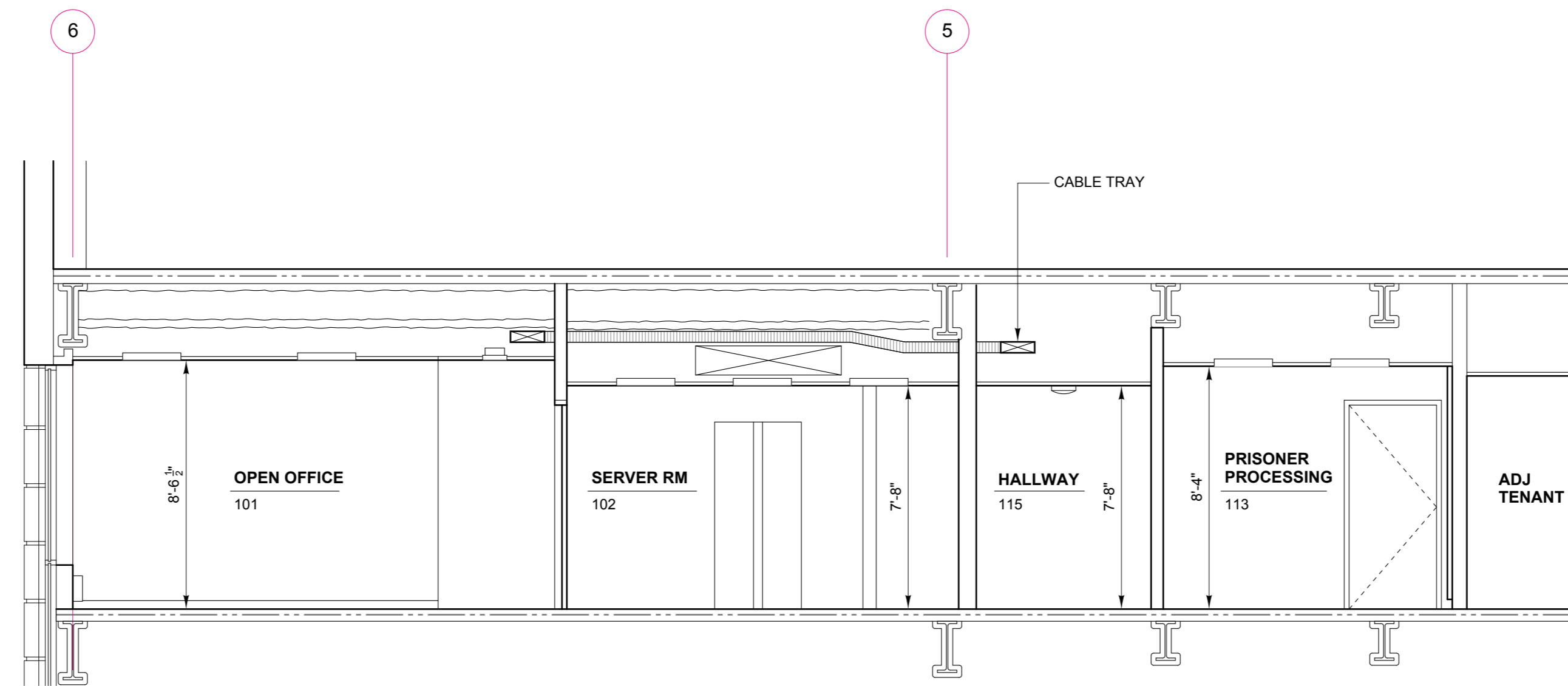
Scale: 1/4" = 1' - 0"

A 201

July 26, 2019



A
 BUILDING SECTION
 1/4" = 1' - 0"



B
 BUILDING SECTION
 1/4" = 1' - 0"

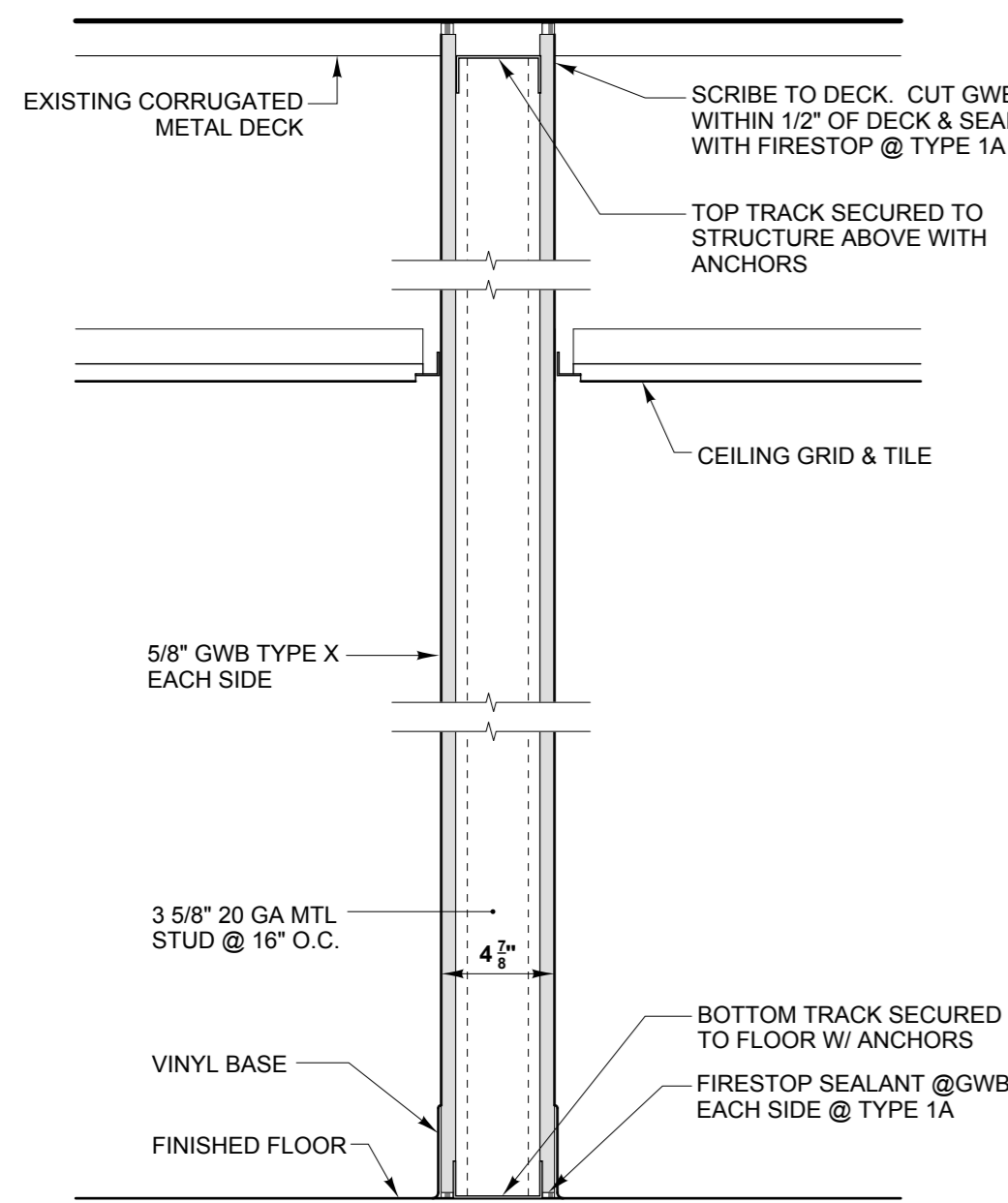


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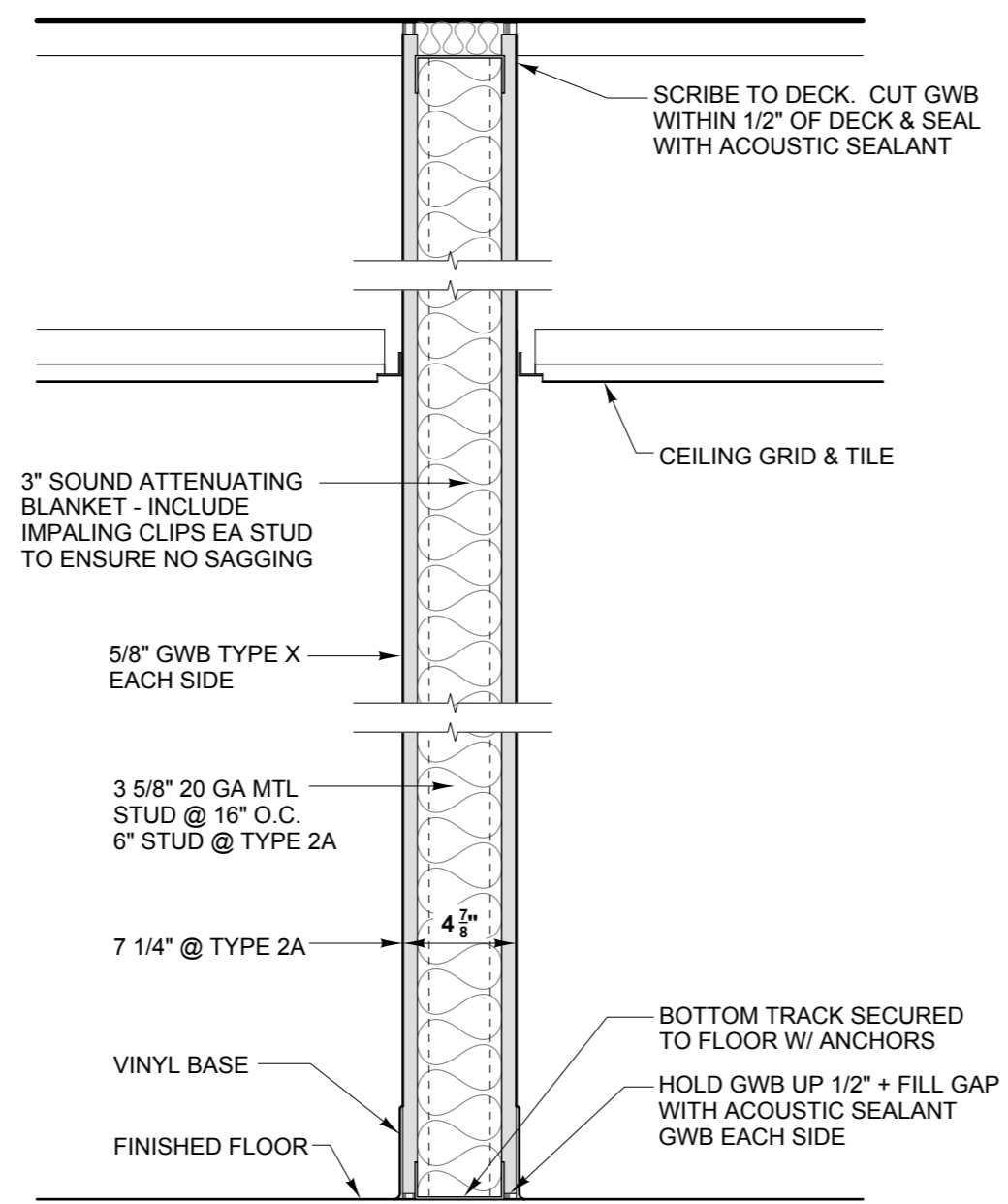
Architecture / Planning
Preservation Architecture
Interior Architecture



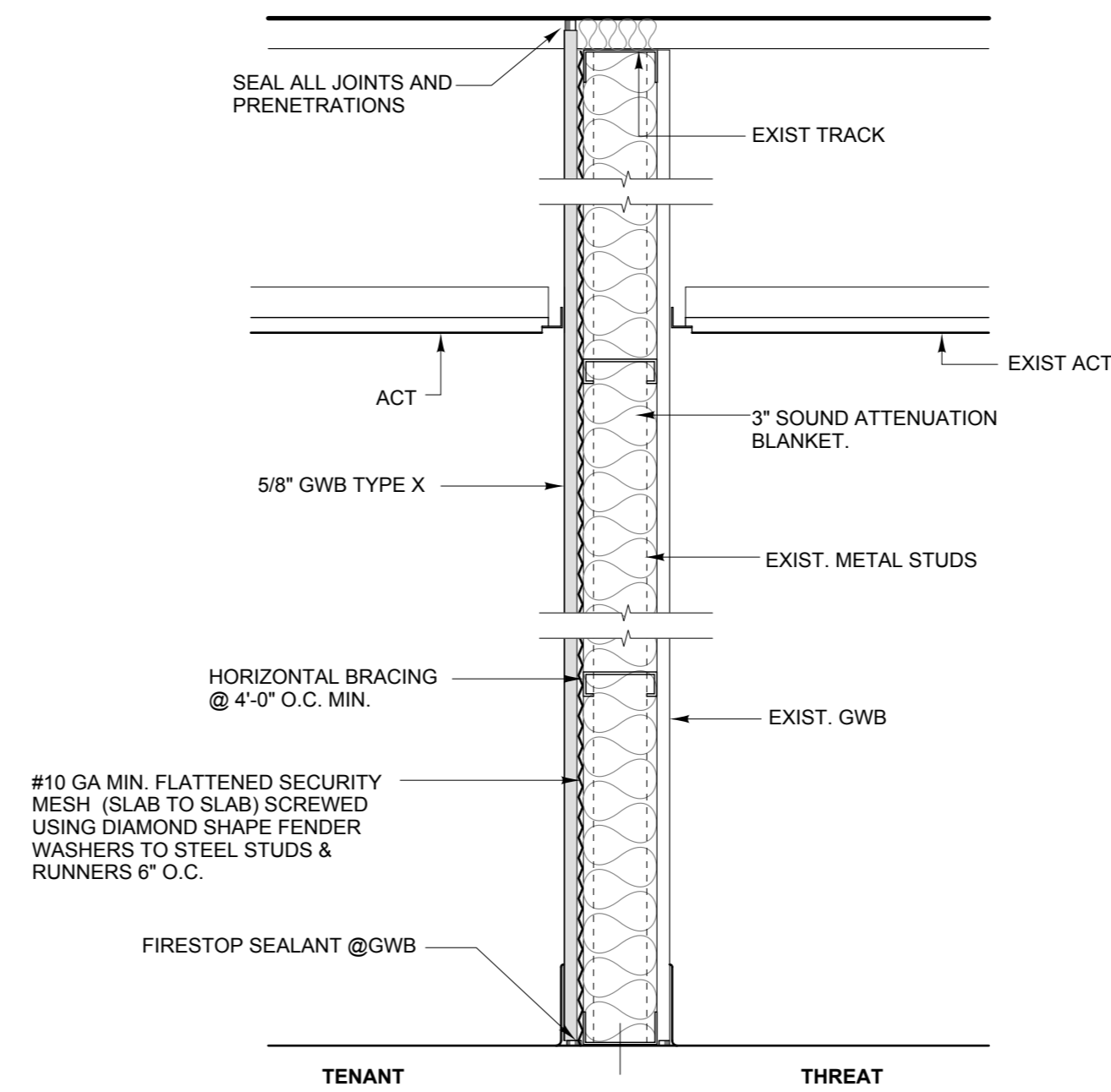
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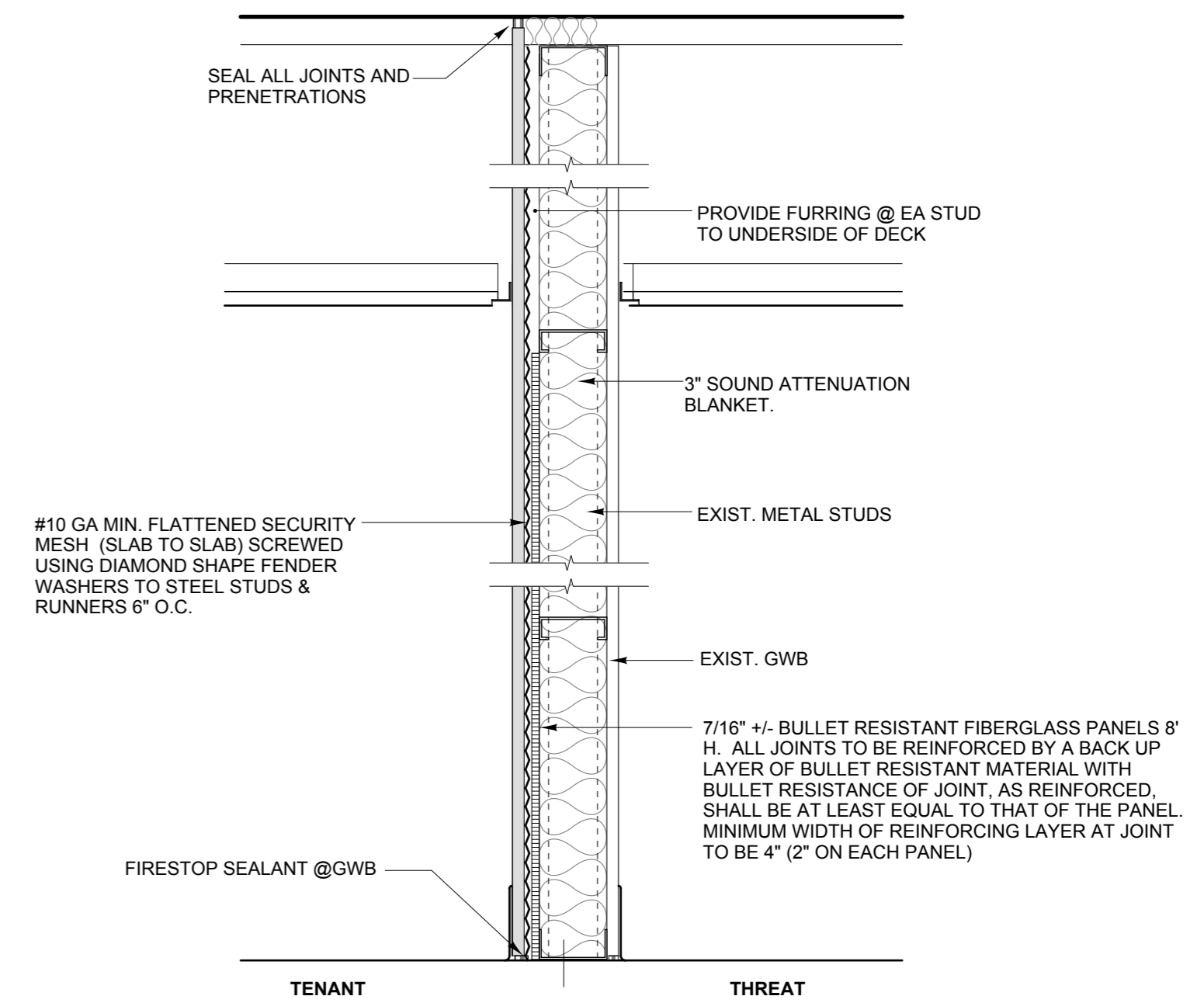
1 PARTITION
ONE HOUR FIRE RATED PER UL DES 419 @ TYPE 1A



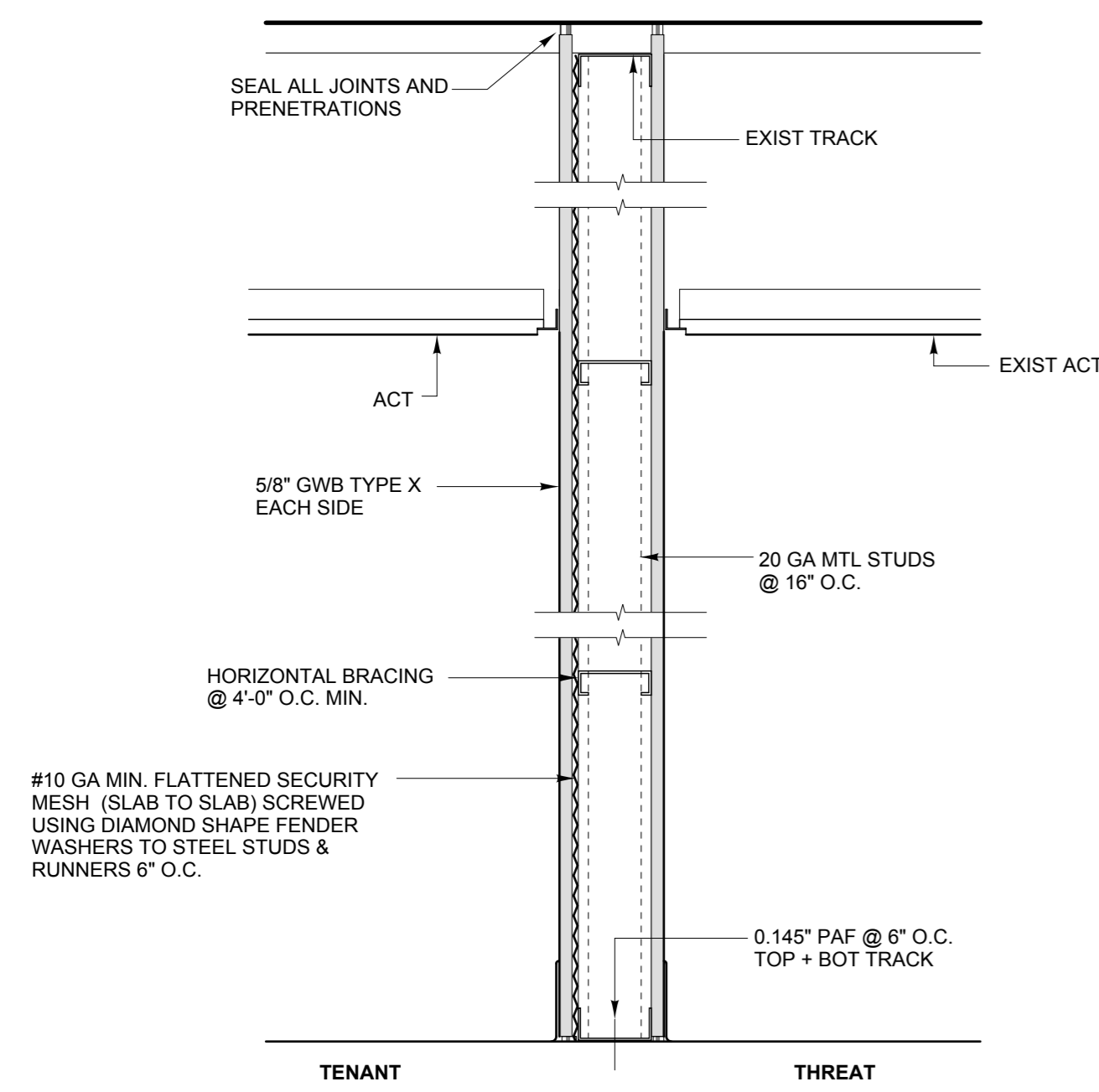
2 SOUND ATTENUATION PARTITION
STC-45 RATED
EXISTING METAL STUDS TO REMAIN @ PARTITION TYPE 2B



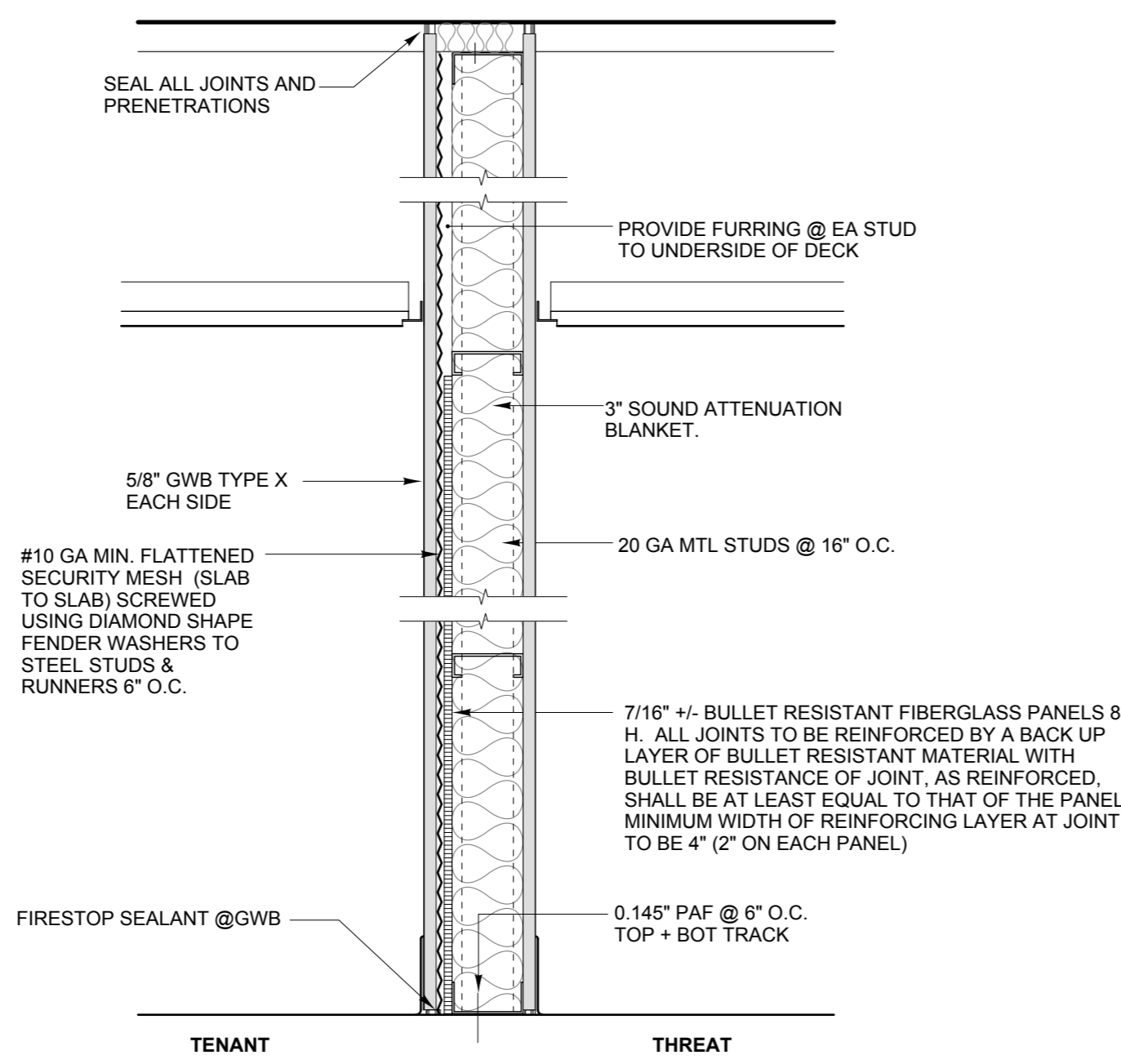
3 EXISTING DEMISING PARTITION
EXPANDED MESH REINFORCED



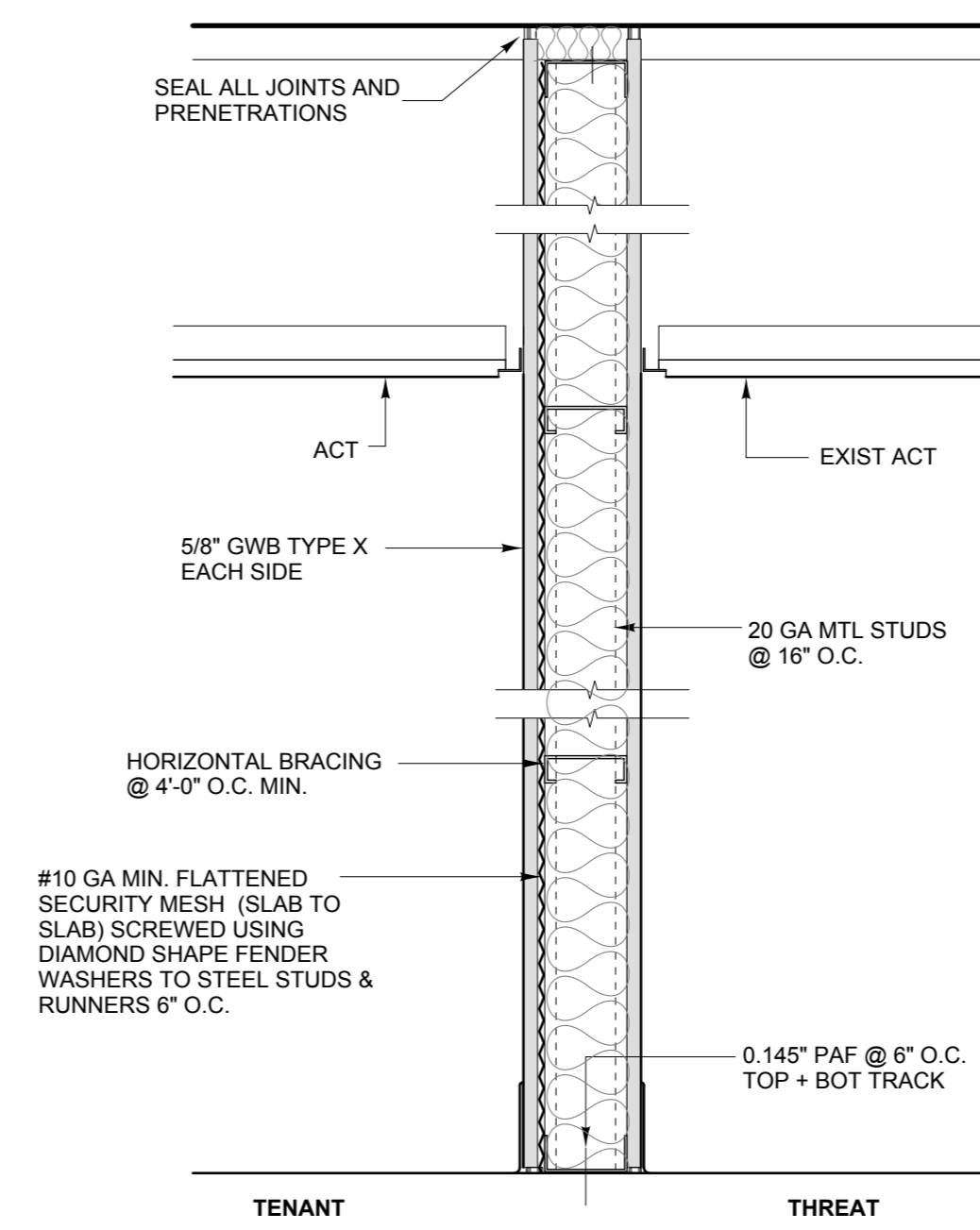
3A EXISTING DEMISING PARTITION
MESH + BALLISTIC REINFORCED
OMIT EXPANDED MESH @ PARTITION TYPE 3B



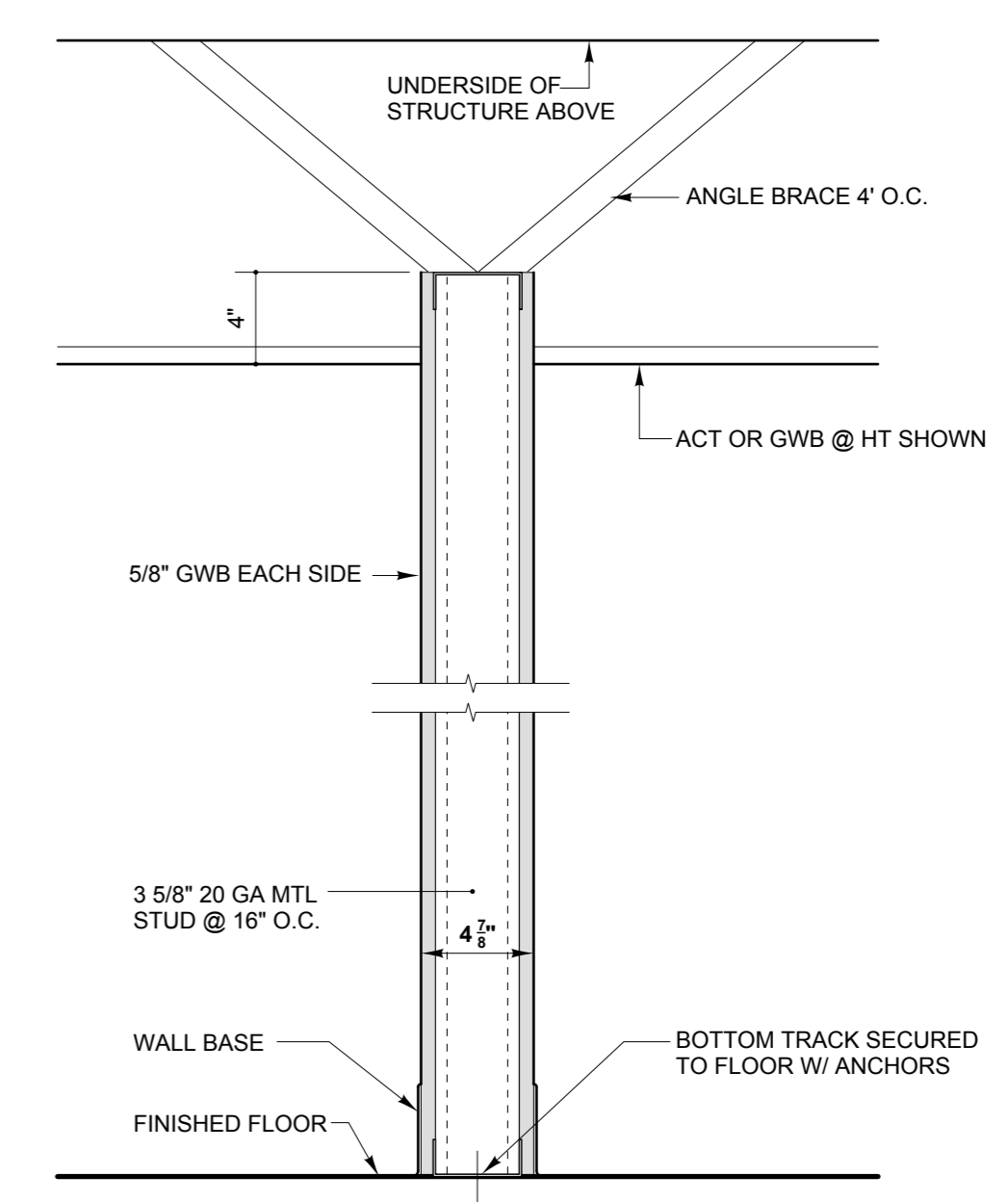
4 SECURE PARTITION
EXPANDED MESH REINFORCED



4A PARTITION
MESH + BALLISTIC REINFORCED



4B SECURE PARTITION
MESH + BALLISTIC REINFORCED



5 PARTITION
GWB ONE SIDE ONLY @ TYPE 5A

2 Portland Square
Portland, Maine

Office
Renovations

Second Floor

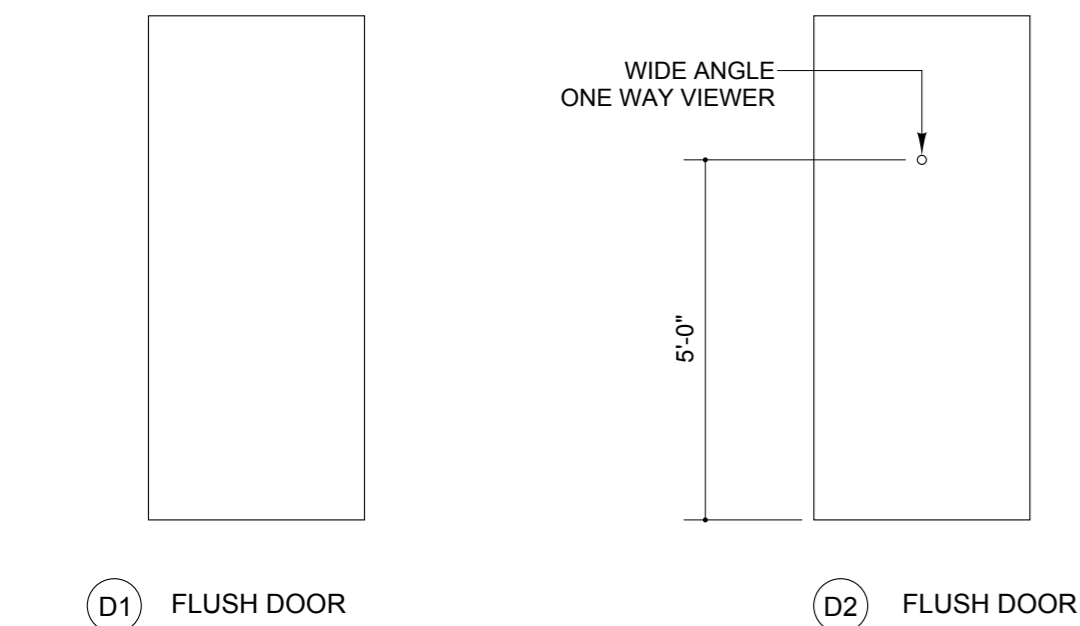
Partition Types

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

A 401

July 26, 2019

DOORS / FRAMES / HARDWARE SCHEDULE

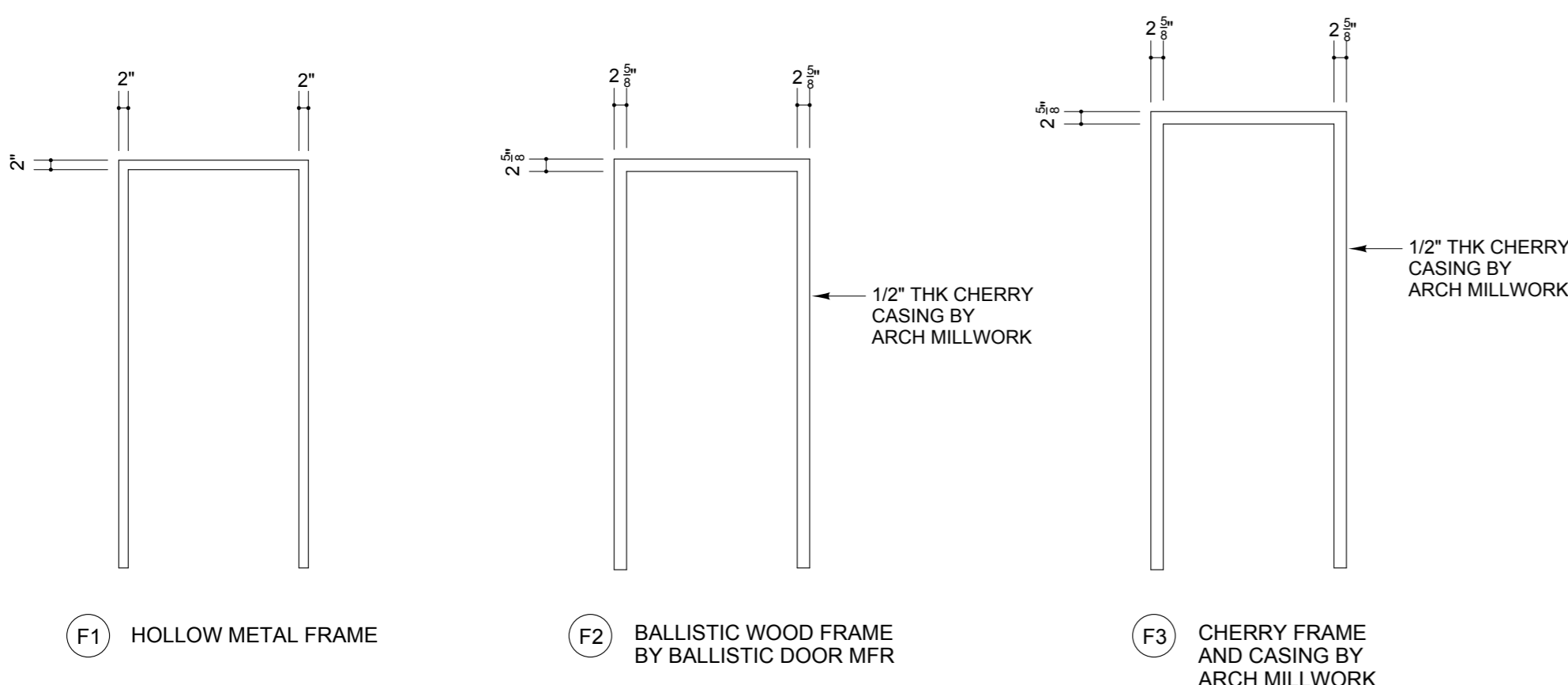


D1 FLUSH DOOR

D2 FLUSH DOOR

DOOR TYPES

3/8" = 1' - 0"



F1 HOLLOW METAL FRAME

F2 BALLISTIC WOOD FRAME BY BALLISTIC DOOR MFR

F3 CHERRY FRAME AND CASING BY ARCH MILLWORK

FRAME TYPES

3/8" = 1' - 0"

| Door No. | Control | Size | Thickness | Type | Material | Ballistic Rating | Finish | Frame | | Jamb | | Head | Sill | Hardware | | | | | | | | | | | | Label | Remarks | | | | | | | | |
|----------|---------|----------------|-----------|------|------------|------------------|--------|-------|----------|------------------|--------|------|------|----------|----------------------|-------------------------------|--|---|---|-----------------------------|--|--|---------------------------------------|-------------------------------------|---|-------|---------|---|---|---|------------------------------------|------------------------|---------------|-------------------------------|--|
| | | | | | | | | Type | Material | Ballistic Rating | Finish | | | Hinges | Power Transfer Hinge | ADA Closer With Hold-Open Arm | Heavy Duty Closer By Ballistic Door Manufacturer | Electric Mortise Lockset: 8877 Function + REX | Electric Mortise Lockset: 8881 Function + REX | Lever Trim Combination Lock | Mortise Lockset 8805 Stormroom Function (Reversed) | Mortise Lockset 8808 Stormroom Function w/Deadbolt | Mortise Lockset 8801 Passage Function | Mortise Lockset 8807 Entry Function | High Security Deadbolt: Melco 11C4020xx | | | Electric Strike (Folger Adams 3102.314 Fall Secure) | Electric Strike (Folger Adams 3102.314 Fall Secure) | Mortise Lockset 8861 HD Bathroom Function | Core Header By Security Contractor | Wide Angle Door Viewer | Soundproofing | Mortise Automatic Door Bottom | Mortise Automatic Door Bottom By Ballistic Door Manufacturer |
| 100 | ACS | 3' 0" x 7' 10" | 1 3/4" | D1 | CHERRY | - | PTD | F2 | A W | LVL 3 | NAT | J 3 | H 3 | - | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | T1 | - |
| 101 | ACS | 3' 0" x 7' 0" | 1 3/4" | D1 | A W | LVL 3 | PTD | F2 | A W | LVL 3 | NAT | J 3 | H 3 | - | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | T3 | - | |
| 102 | ACS | 3' 0" x 7' 0" | 1 3/4" | D1 | H M | - | PTD | F1 | H M | - | PTD | J 1 | H 1 | - | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | T3 | - | |
| 103 | - | 3' 0" x 7' 0" | 1 3/4" | D1 | WD 45 | - | PTD | F1 | H M | - | PTD | J 1 | H 1 | - | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | T1 | 7.7 PSF CORE | |
| 104 | ACS | 4' 0" x 7' 0" | 1 3/4" | D1 | H M | - | PTD | F1 | H M | - | PTD | J 2 | H 2 | - | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | T3 | - | | |
| 105 | ACS | 3' 0" x 7' 0" | 1 3/4" | D1 | H M | - | PTD | F1 | H M | - | PTD | J 2 | H 2 | - | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | T3 | - | | |
| 106 | - | 3' 6" x 7' 0" | 1 3/4" | D1 | WD | - | PTD | F1 | H M | - | PTD | J 1 | H 1 | - | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | T3 | - | | |
| 107 | ACS | 3' 0" x 7' 0" | 1 3/4" | D1 | H M | - | PTD | F1 | H M | - | PTD | J 2 | H 2 | - | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | T3 | - | | |
| 108 | - | 3' 0" x 7' 0" | 1 3/4" | D1 | WD | - | PTD | F1 | H M | - | PTD | J 1 | H 1 | - | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | T3 | - | | |
| 109 | - | 3' 0" x 7' 0" | 1 3/4" | D1 | WD | - | PTD | F1 | H M | - | PTD | J 1 | H 1 | - | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | T3 | - | | |
| 110 | ACS | 4' 0" x 7' 0" | 1 3/4" | D1 | H M | - | PTD | F1 | H M | - | PTD | J 2 | H 2 | - | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | T3 | - | | |
| 111 | - | 3' 0" x 7' 0" | 1 3/4" | D1 | WD | - | PTD | F1 | H M | - | PTD | J 1 | H 1 | - | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | T4 | - | | |
| 112 | ACS | 3' 0" x 7' 0" | 1 3/4" | D1 | WD | - | PTD | F1 | H M | - | PTD | J 1 | H 1 | - | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | T3 | - | | |
| 113 | ACS | 3' 0" x 7' 0" | 1 3/4" | D2 | WD 45 | - | PTD | F1 | H M | - | PTD | J 1 | H 1 | - | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | T2 | 7.7 PSF CORE | | |
| 113A | - | 3' 0" x 7' 0" | 1 3/4" | D1 | H M | - | PTD | F1 | H M | - | PTD | J 1 | H 1 | - | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | T3 | - | | |
| 114 | ACS | 3' 0" x 7' 0" | 1 3/4" | D2 | WD 45 | - | PTD | F1 | H M | - | PTD | J 1 | H 1 | - | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | T1 | 7.7 PSF CORE | | |
| 115 | ACS | 3' 0" x 7' 0" | 1 3/4" | D1 | WD | - | PTD | F1 | H M | - | PTD | J 1 | H 1 | - | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | T1 | - | | |
| 116 | ACS | 3' 0" x 7' 0" | 1 3/4" | D1 | CHERRY A W | LVL 3 | POLY | F2 | A W | LVL 3 | NAT | J 4 | H 4 | - | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | T1 | - | | |

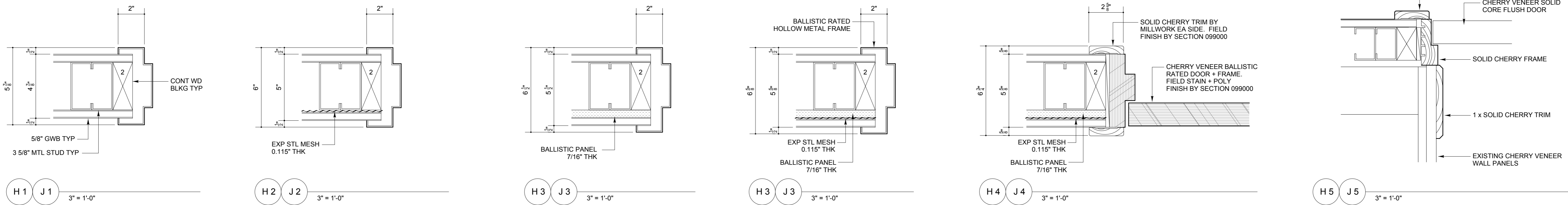
LEGEND

ACS ACCESS CONTROL SYSTEM DOOR
 HM WELDED HOLLOW METAL
 LVL3 UL752 LEVEL 3 DOOR + FRAME BY NORTH AMERICAN BULLETPROOF
 HDWD SOLID CORE CHERRY VENEER FLUSH DOOR
 WD SOLID CORE WOOD DOOR
 A W ARMORED WOOD
 POLY 3 COATS POLYURETHANE BY PAINTING SUBCONTRACTOR
 WD 45 SOLID CORE WOOD WITH STC 45 ACOUSTIC RATING

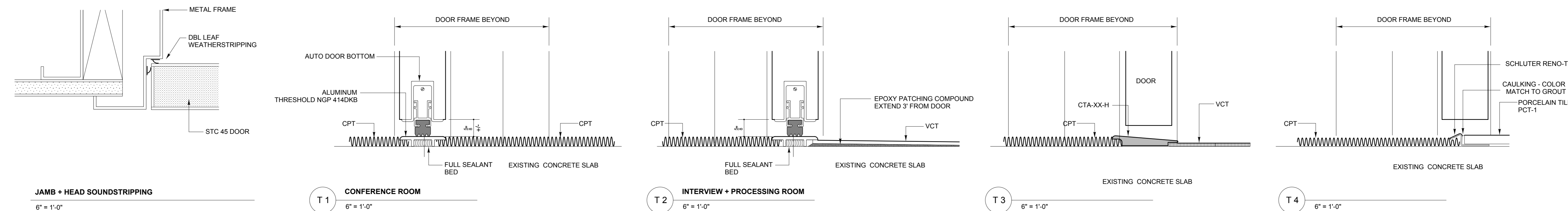
NOTE

1 HARDWARE FINISH : US26D UNLESS NOTED OTHERWISE.
 2 ACS DOORS - PROVIDE DEEP MORTAR POCKET FOR WIRING HARNESS

• FINISH AND INSTALL HARDWARE ITEM INDICATED



ENLARGED DOOR DETAILS



JAMB + HEAD SOUNDSTRIPPING
6" = 1'-0"

T1 CONFERENCE ROOM
6" = 1'-0"

T2 INTERVIEW + PROCESSING ROOM
6" = 1'-0"

T3
6" = 1'-0"

T4
6" = 1'-0"



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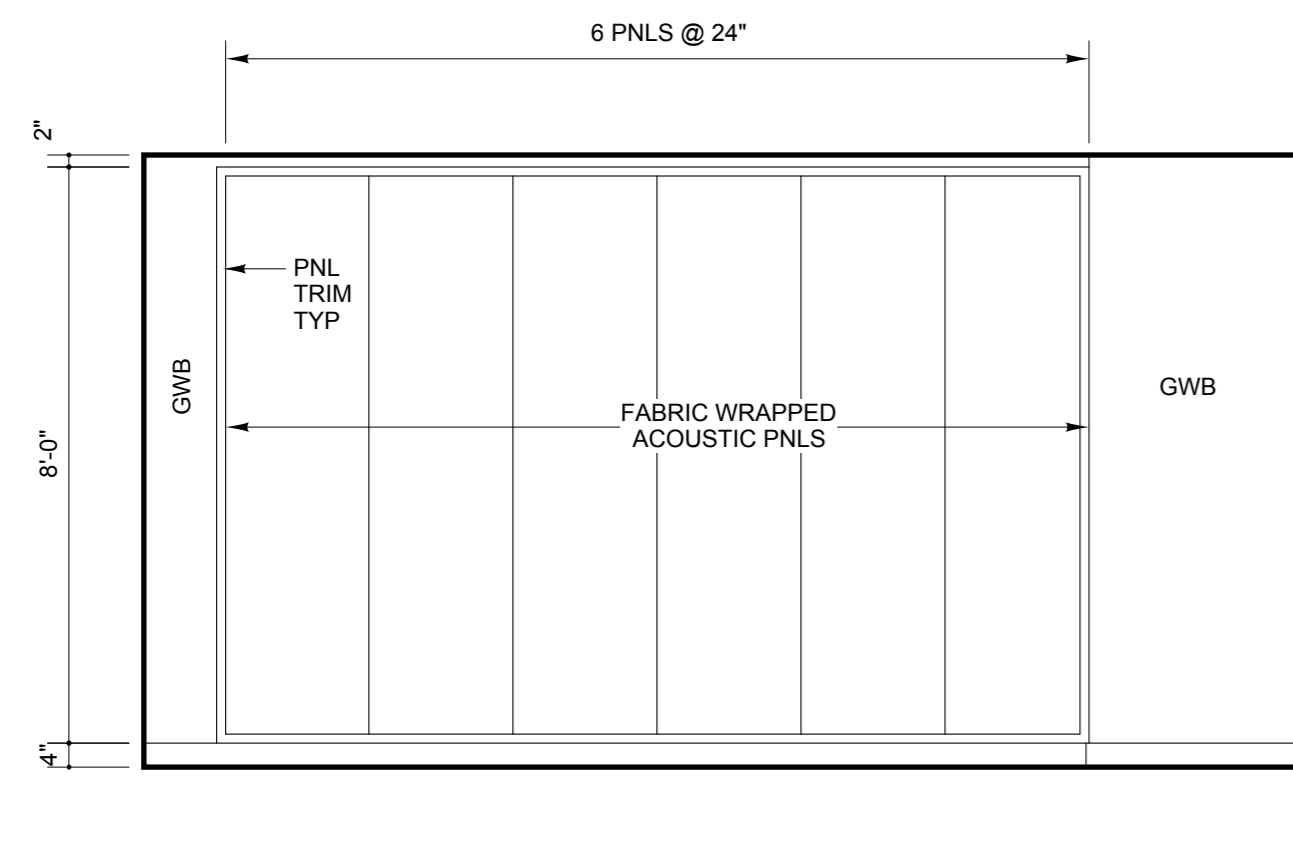
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 Renovations

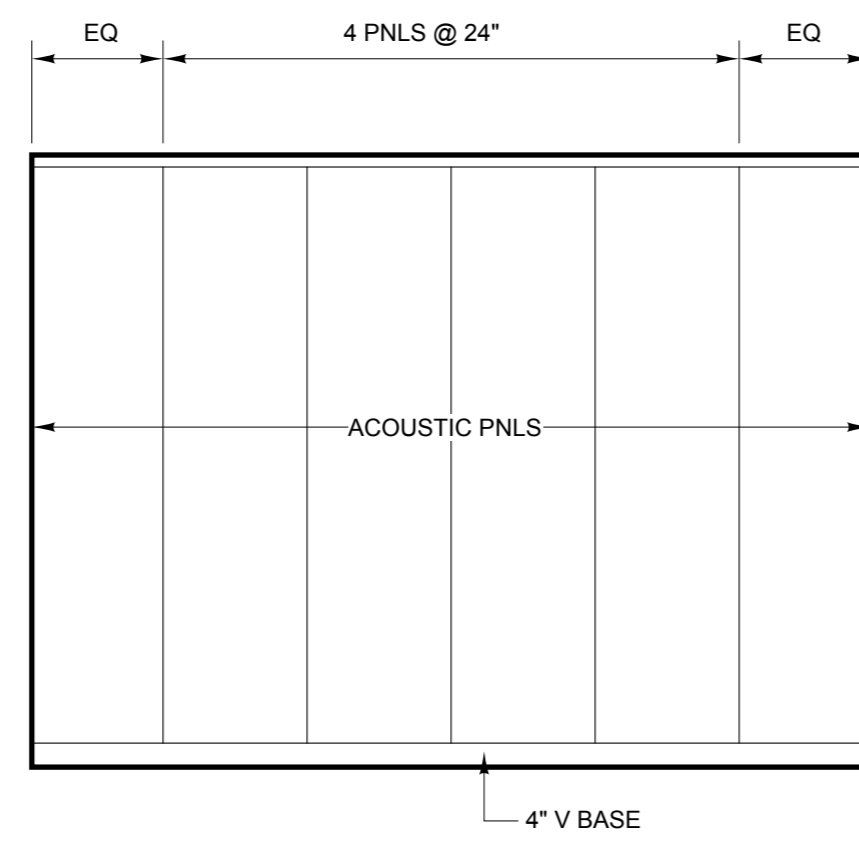
Second Floor

Door Schedule
 +
 Details

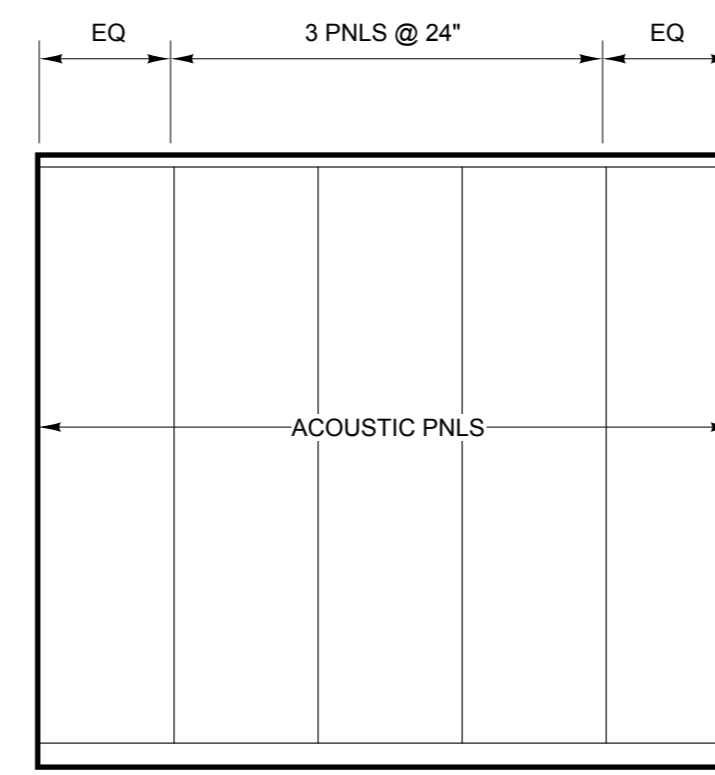
A 501



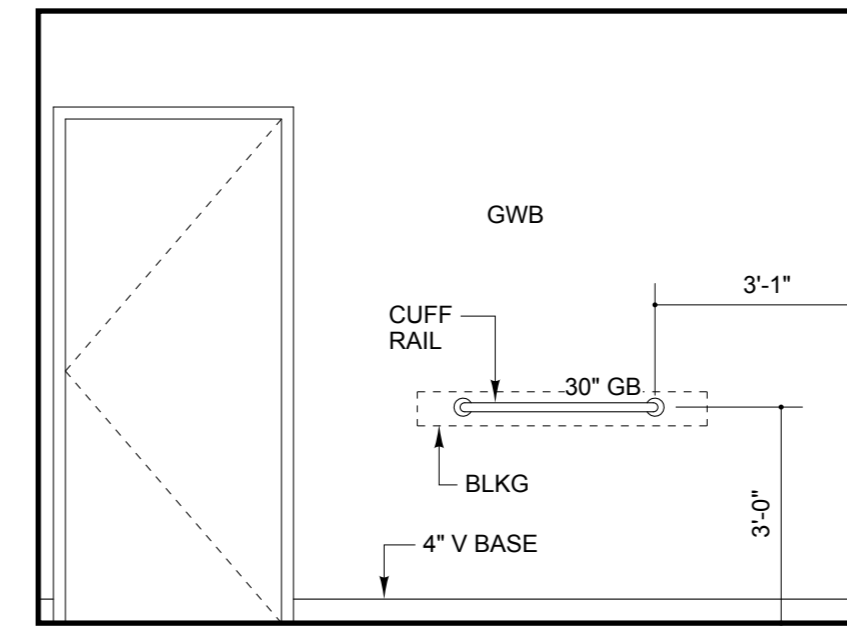
1 OFFICE RM. 108
3/8" = 1' - 0"



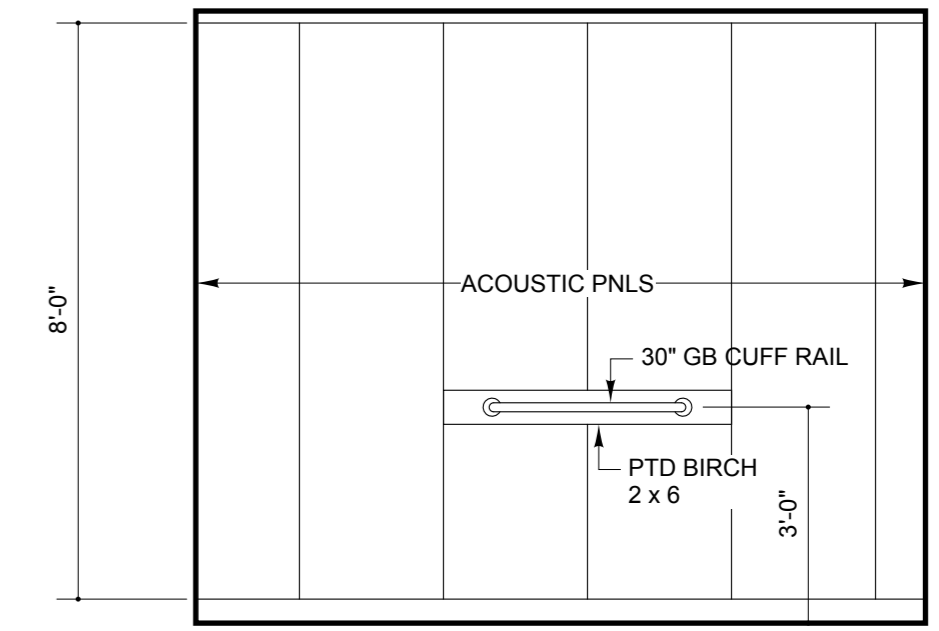
2 PRISONER PROCESSING RM. 114
3/8" = 1' - 0"



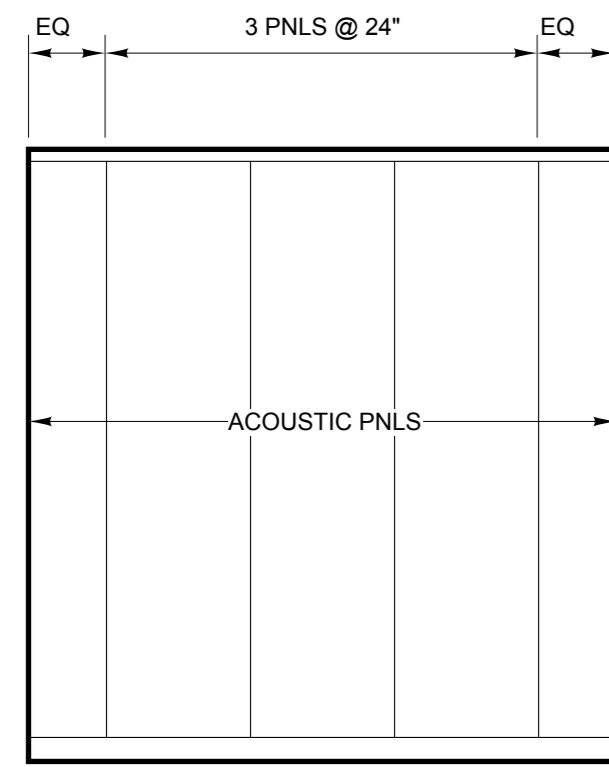
3 PRISONER PROCESSING RM. 113
3/8" = 1' - 0"



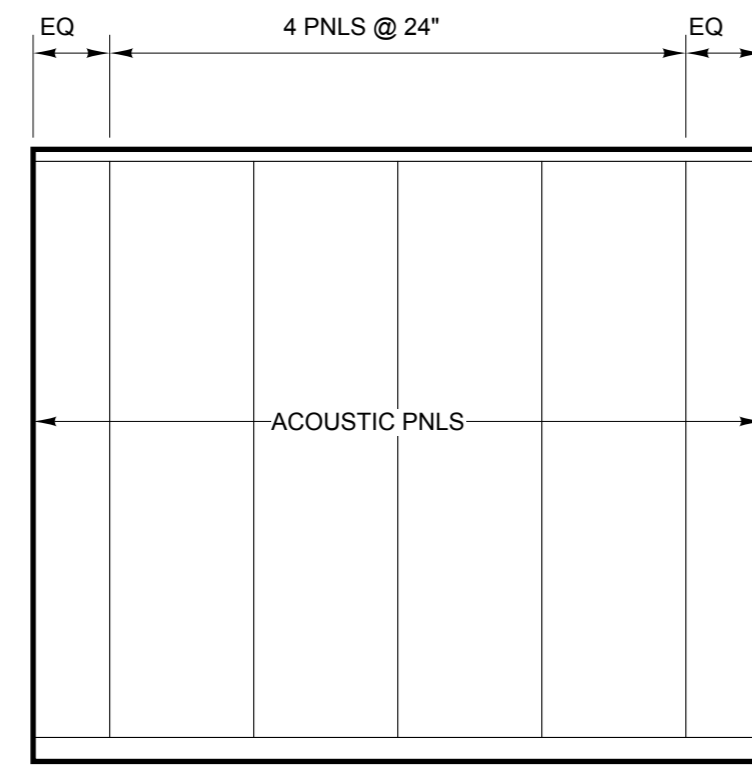
4 PRISONER PROCESSING RM. 113
3/8" = 1' - 0"



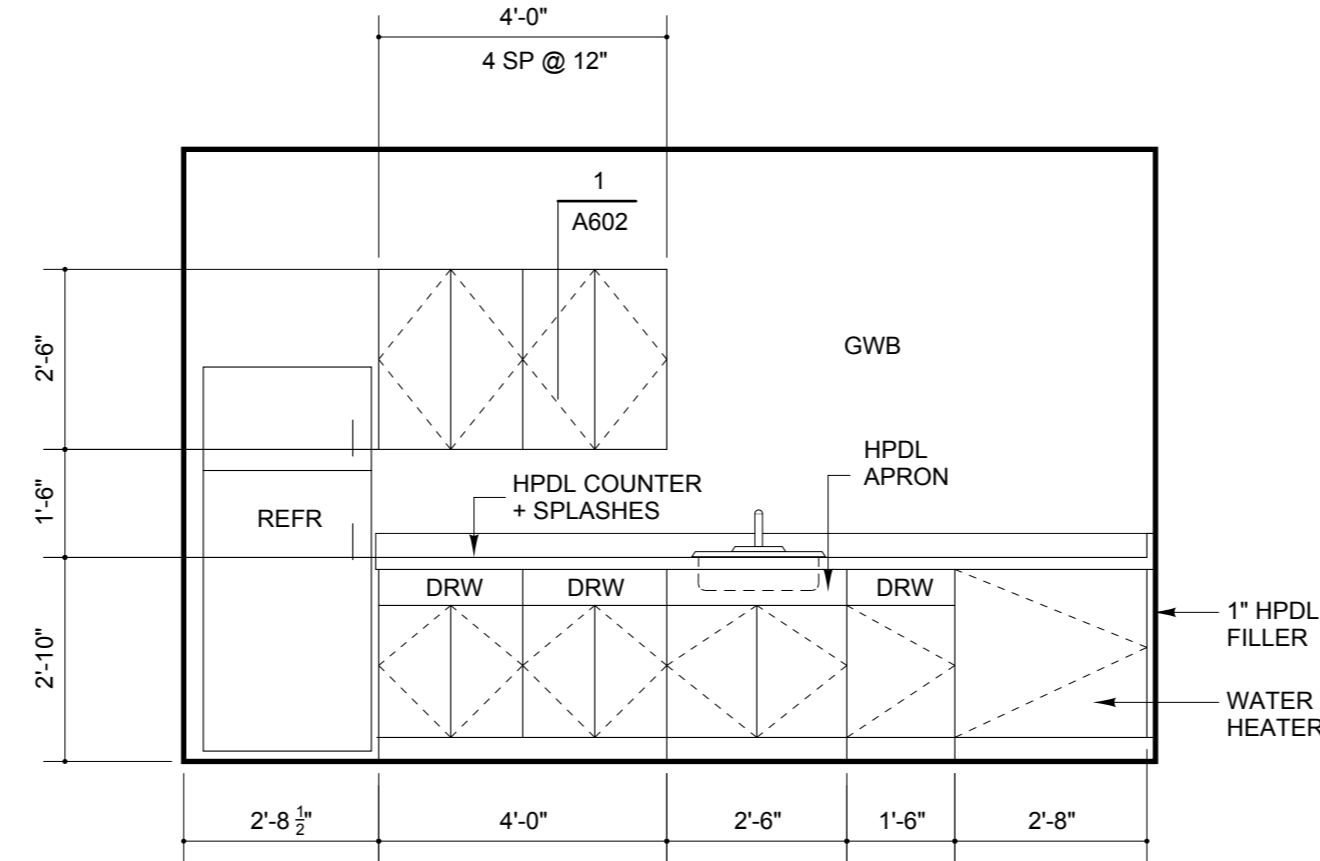
5 INTERVIEW RM. 114
3/8" = 1' - 0"



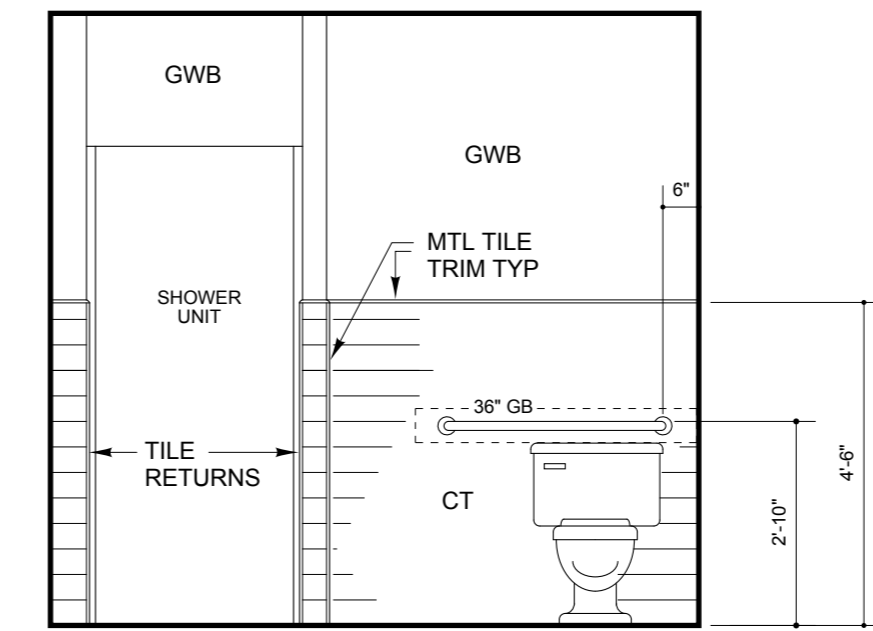
6 INTERVIEW RM. 114
3/8" = 1' - 0"



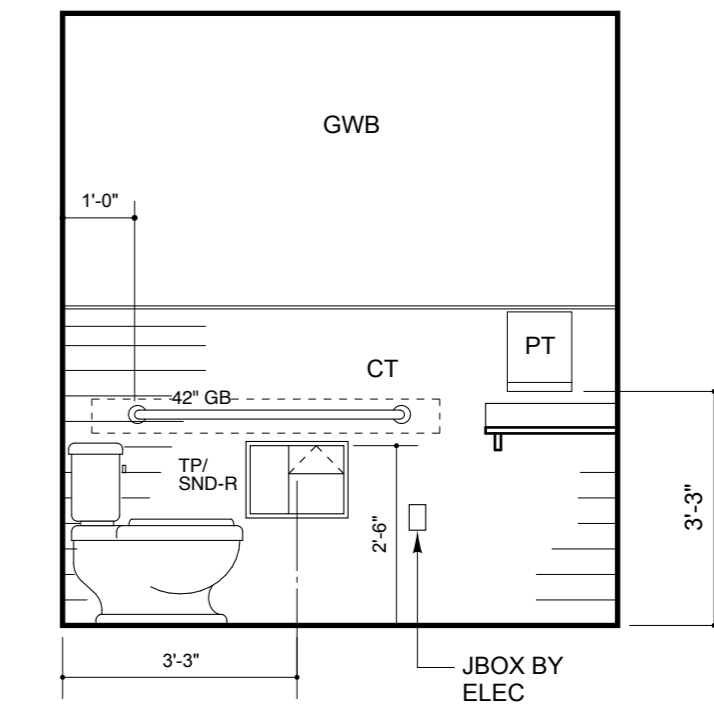
7 INTERVIEW RM. 114
3/8" = 1' - 0"



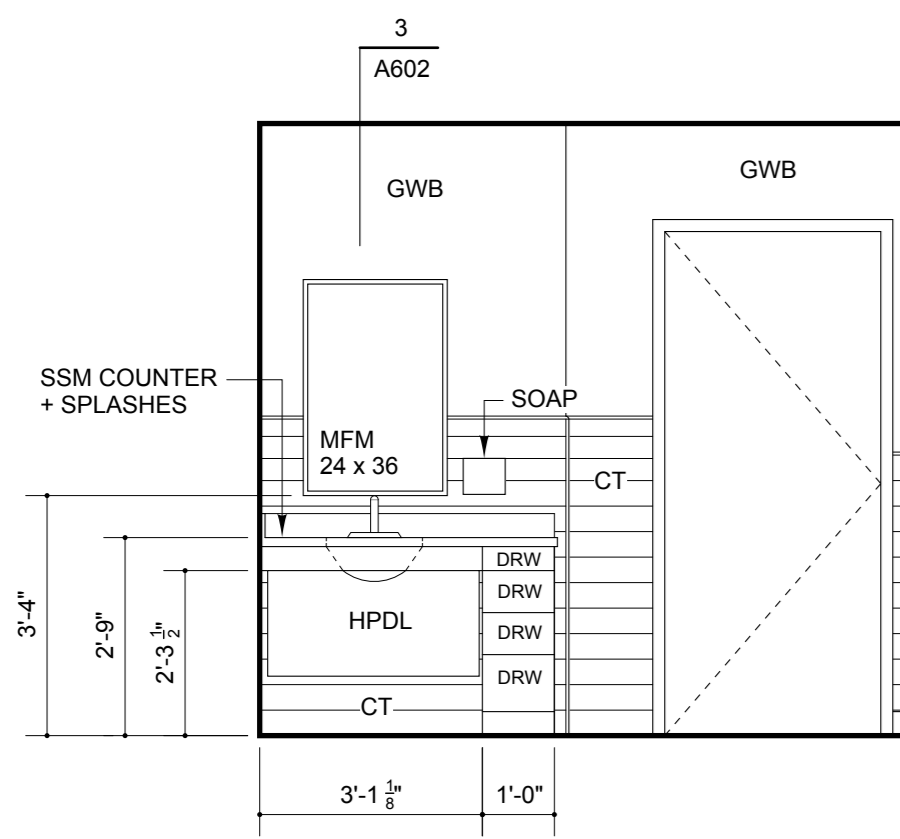
8 BREAK RM. 109
3/8" = 1' - 0"



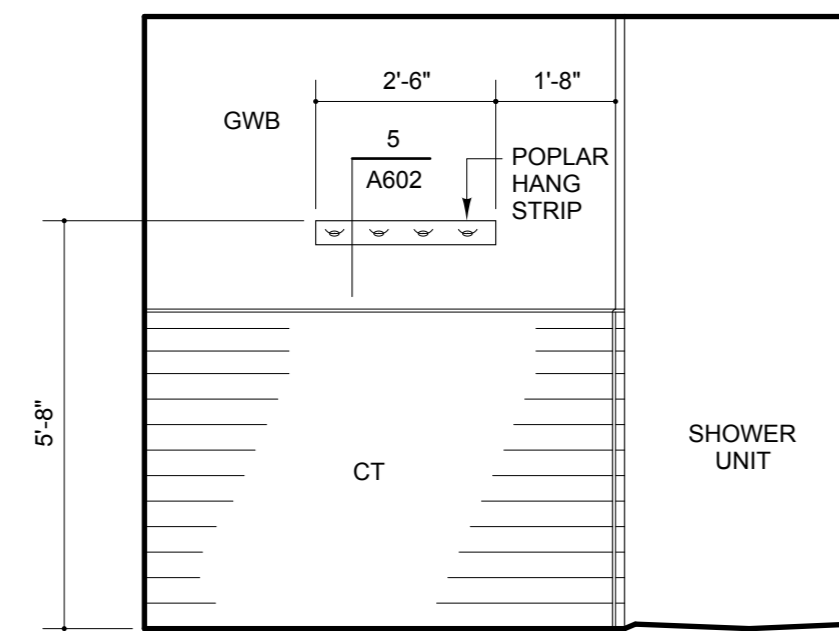
9 REST RM. 111
3/8" = 1' - 0"



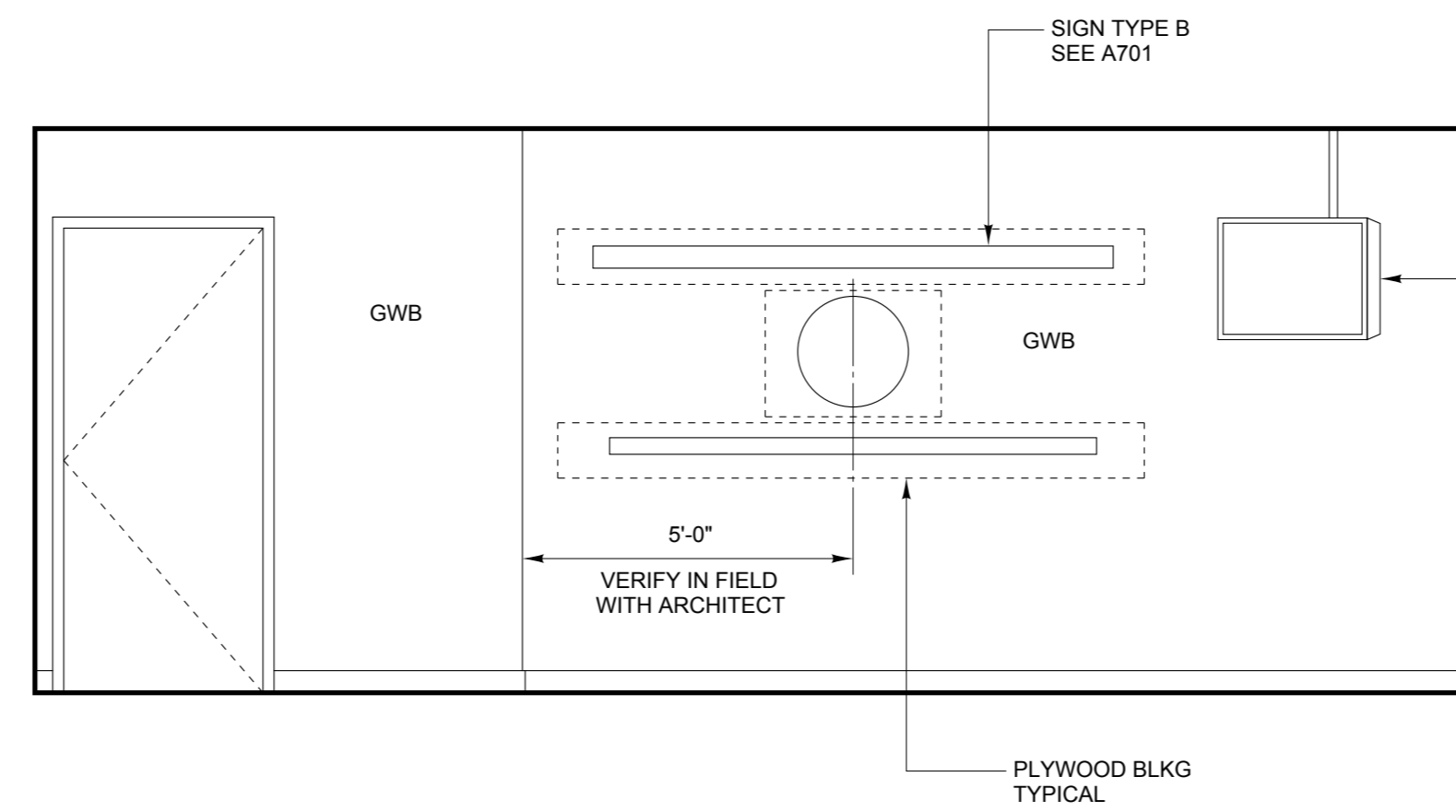
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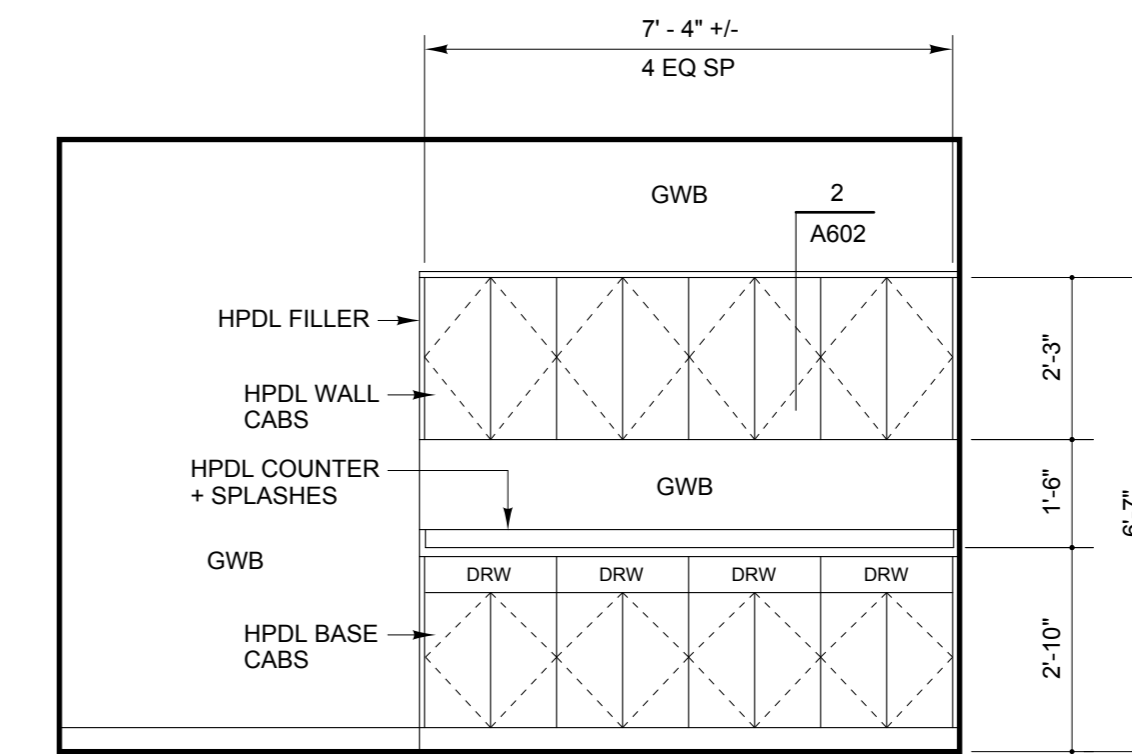
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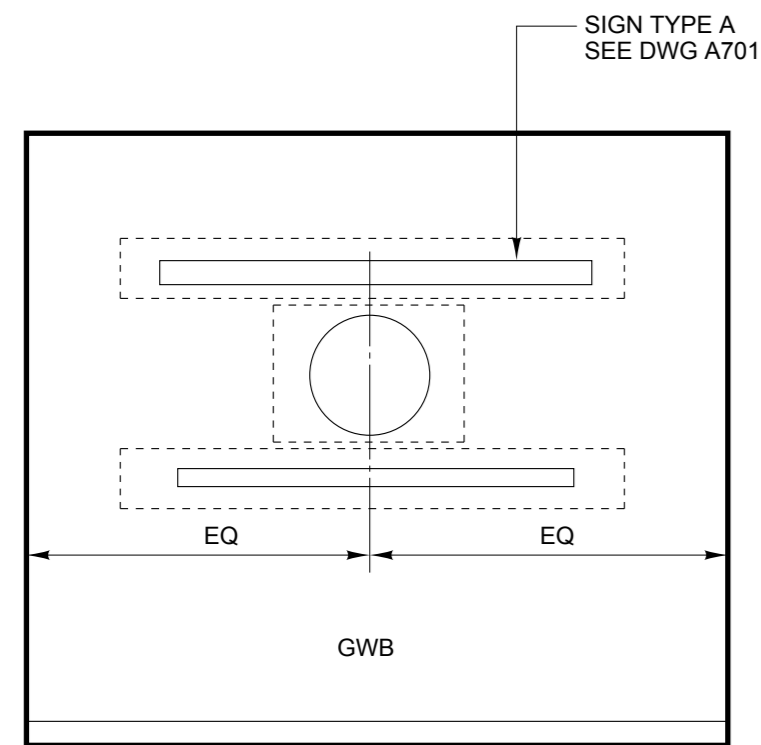
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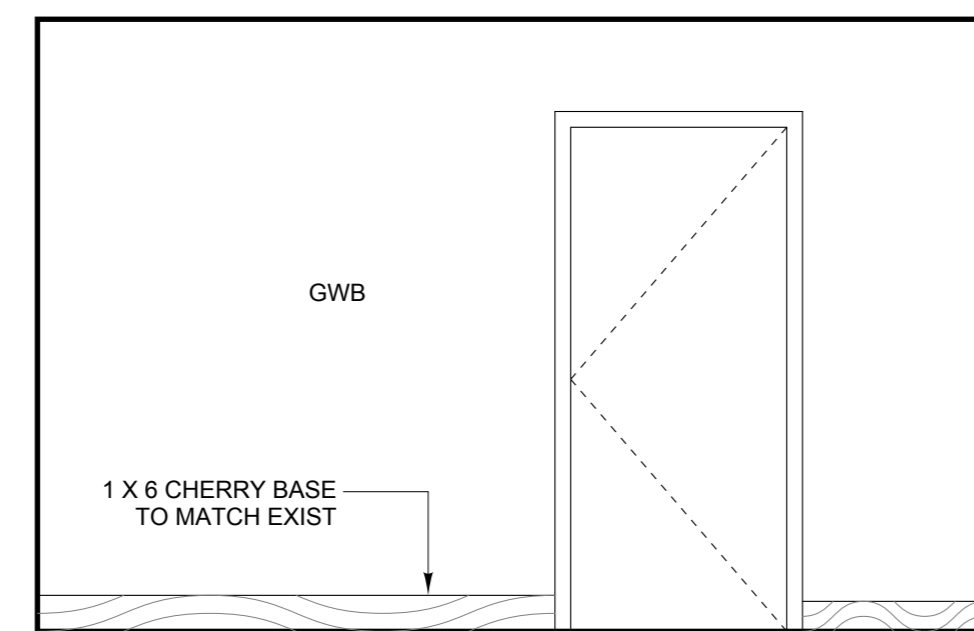
13 CONFERENCE RM. 103
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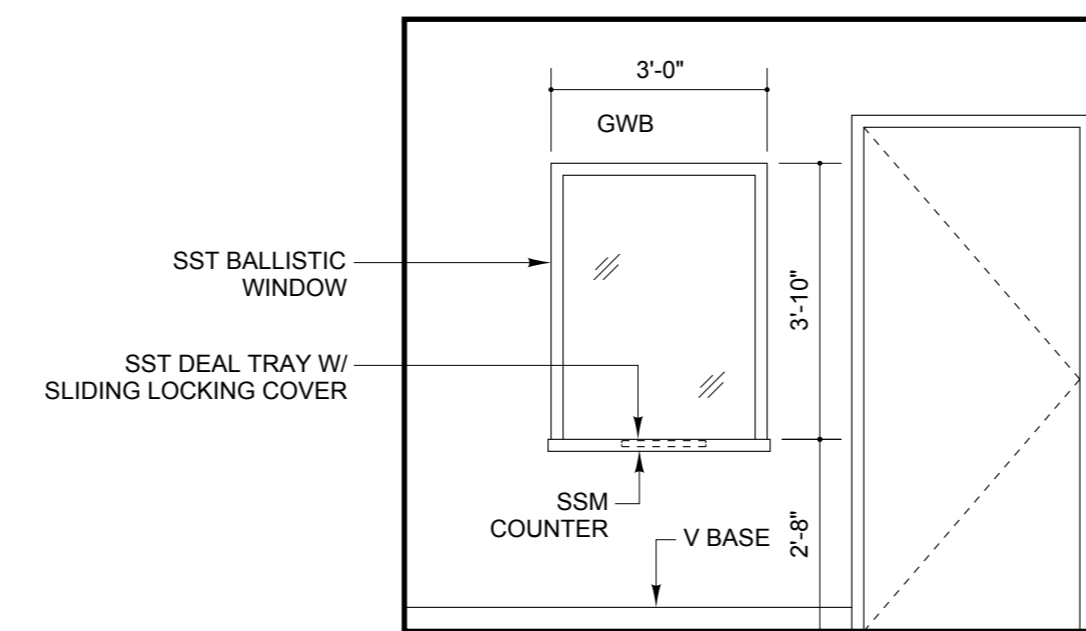
14 CONFERENCE RM. 103
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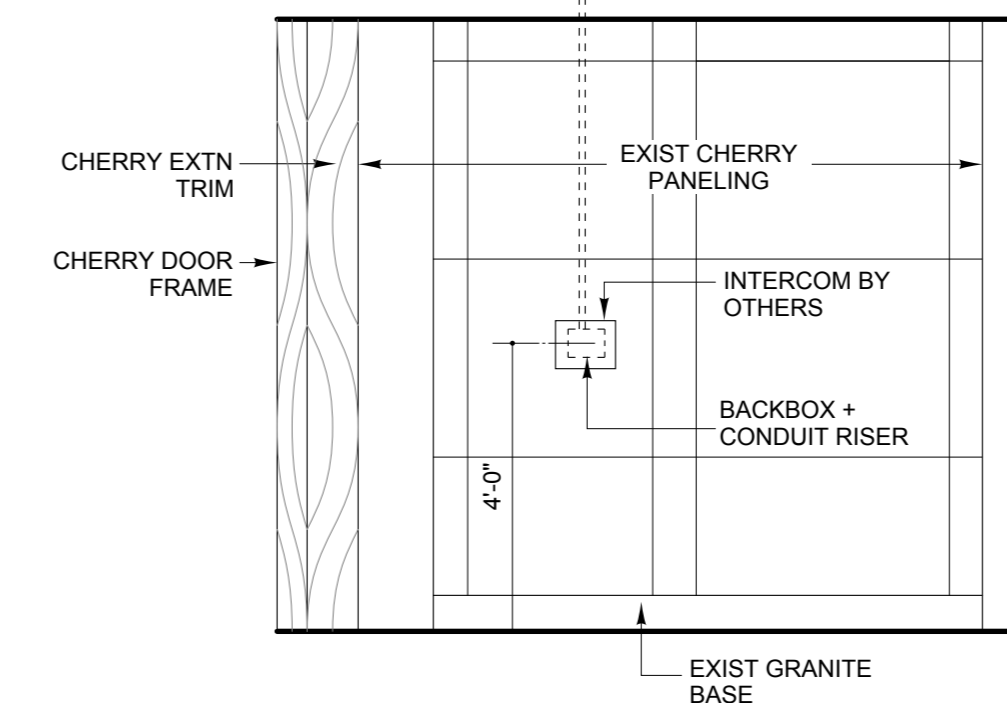
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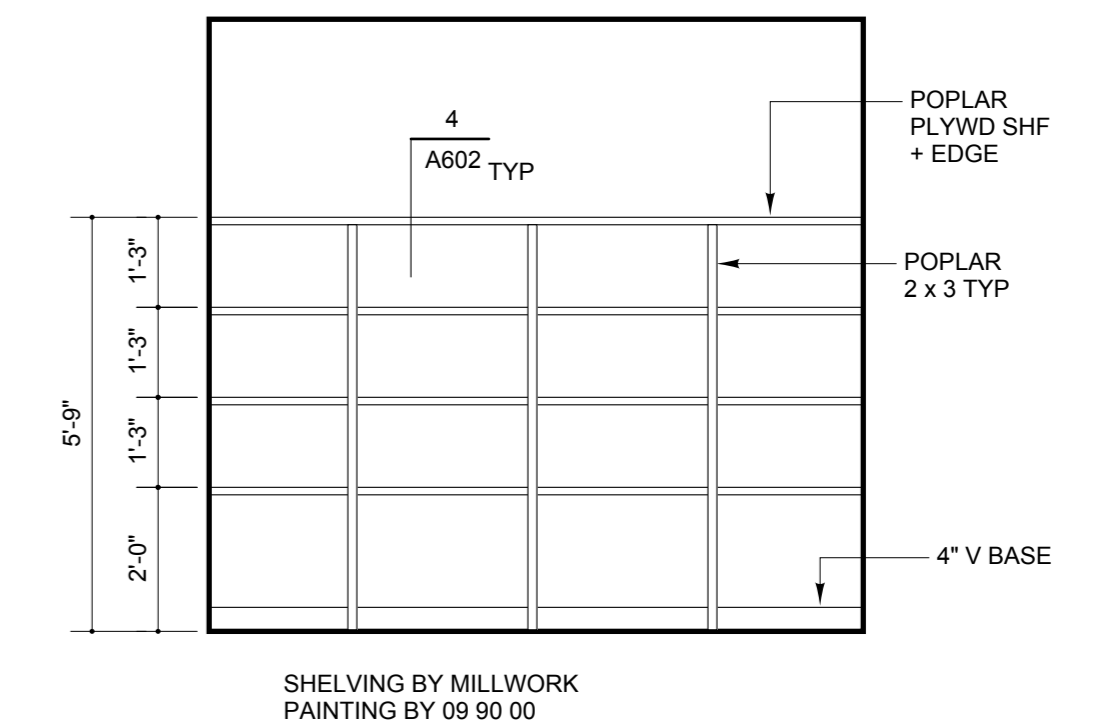
16 EXTERIOR WEST VESTIBULE
3/8" = 1' - 0"



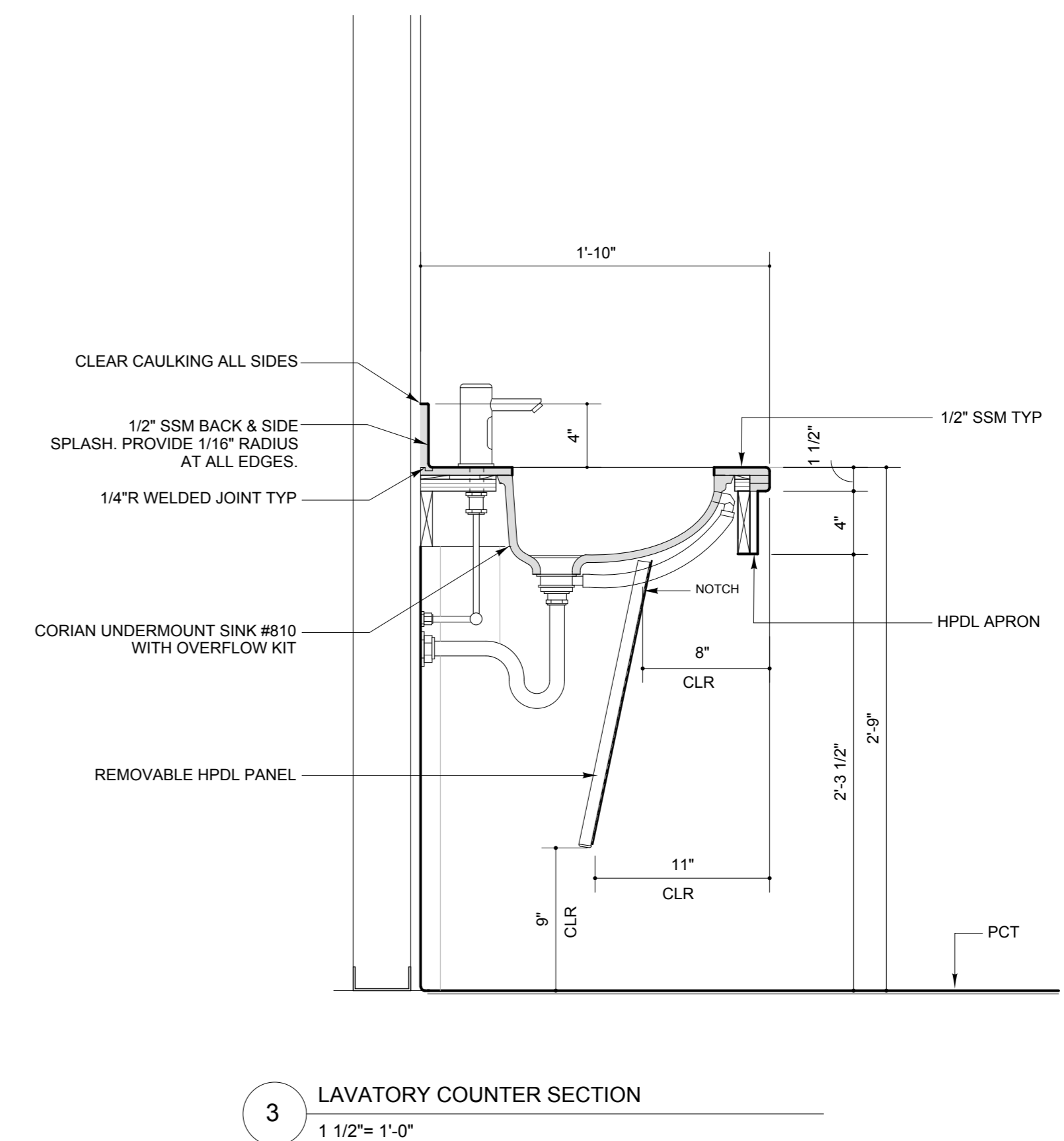
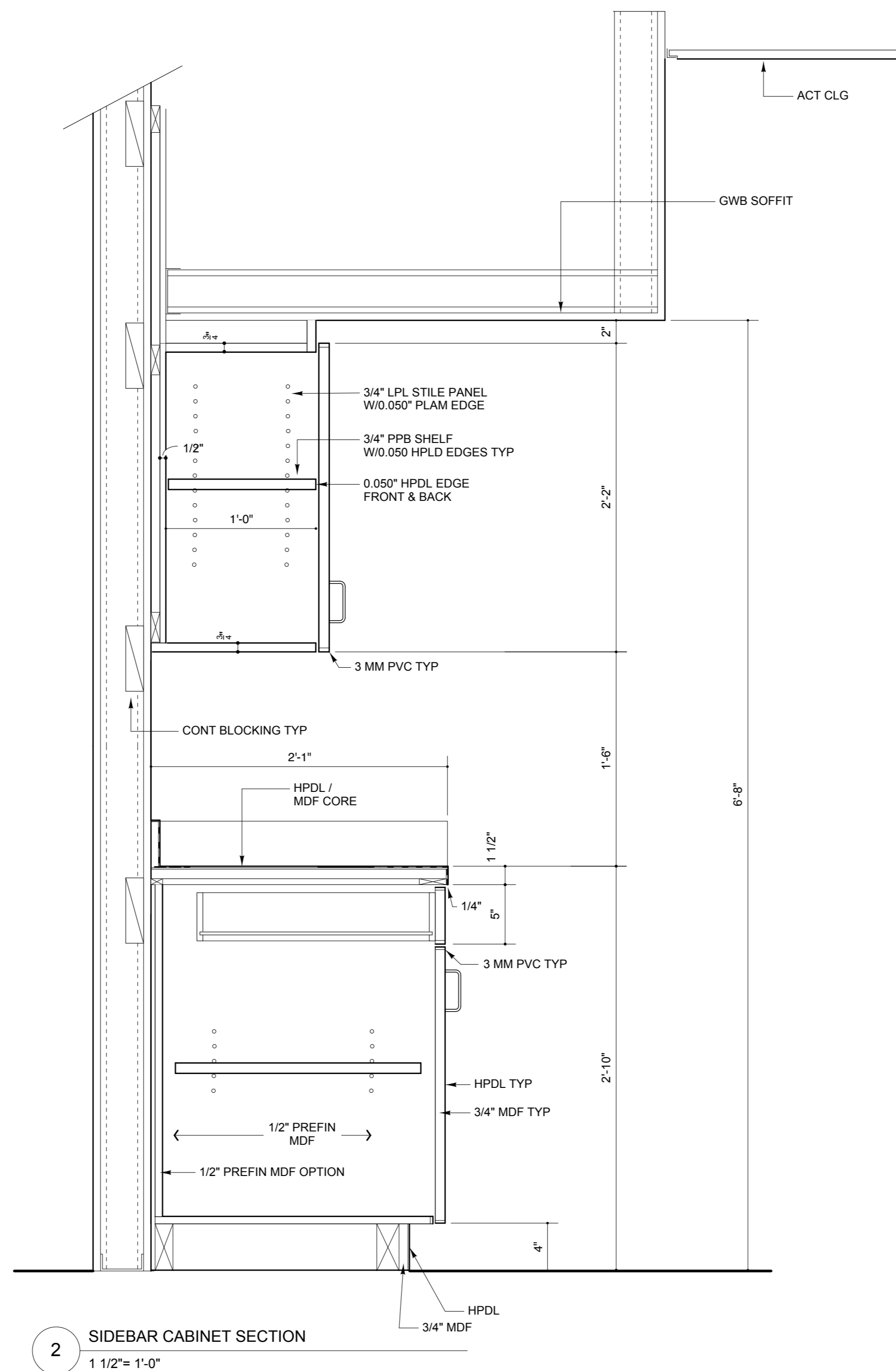
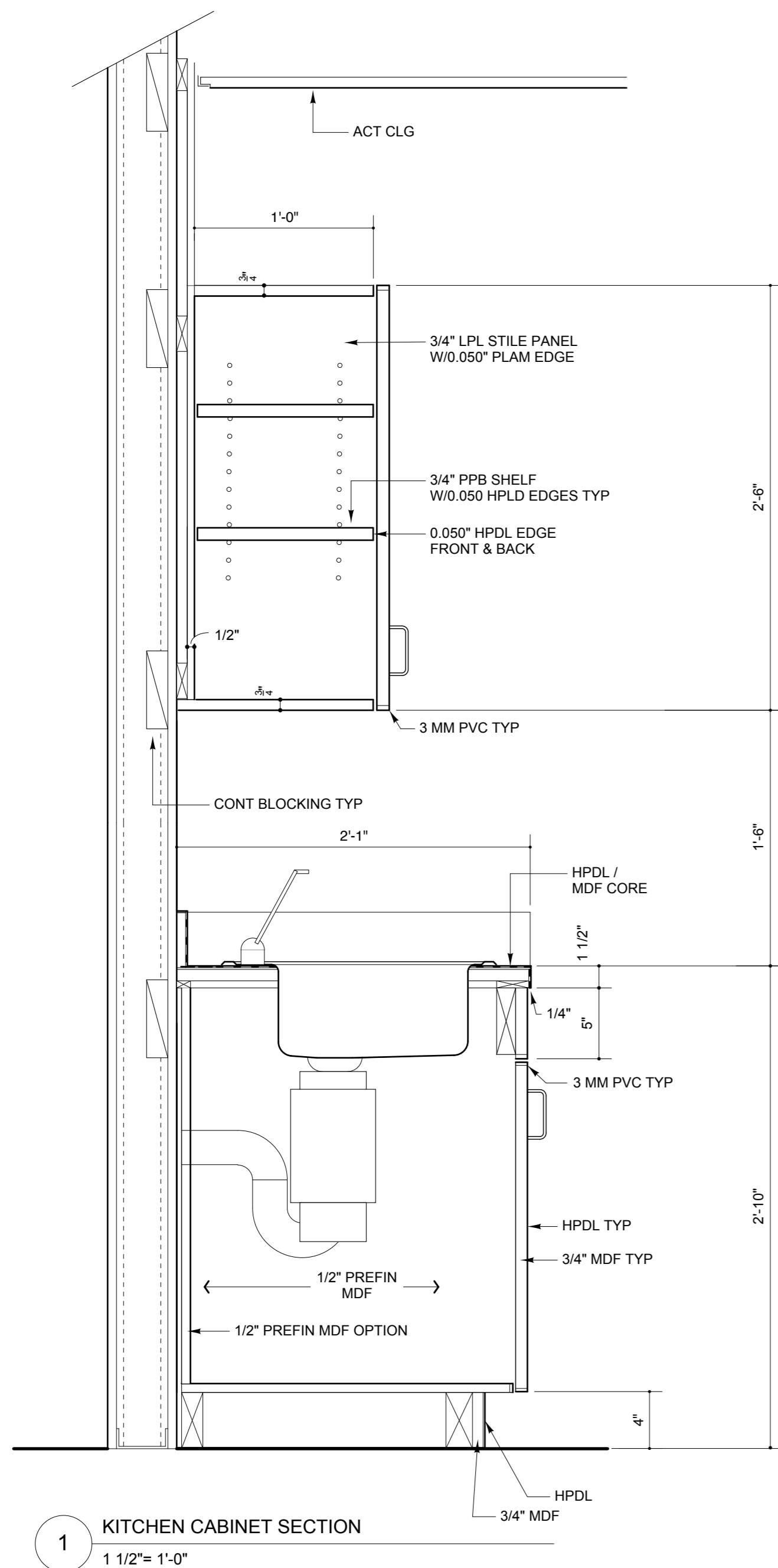
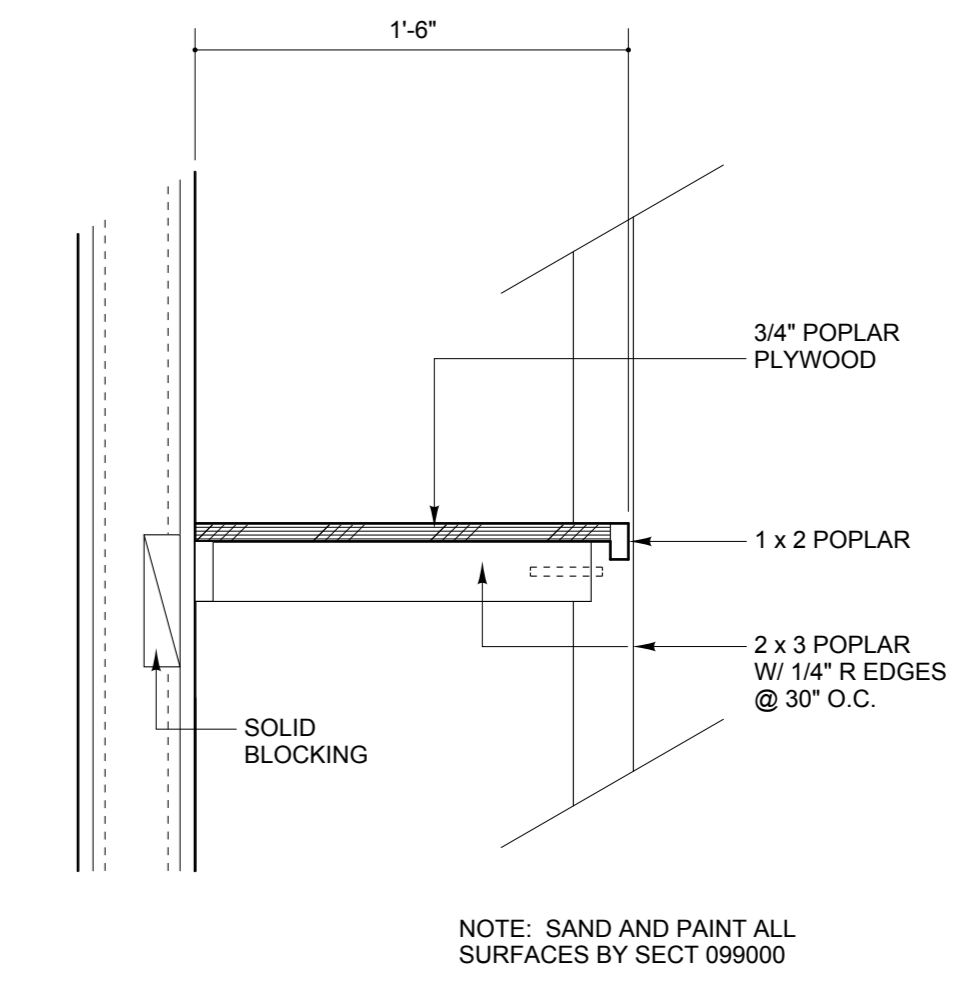
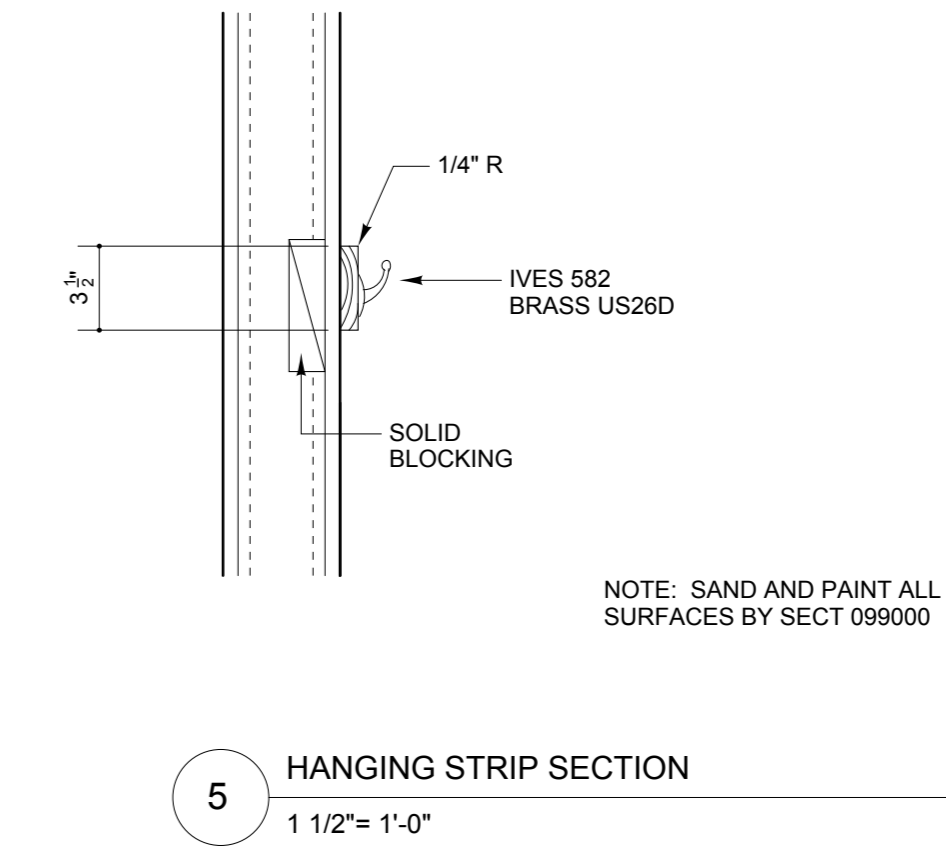
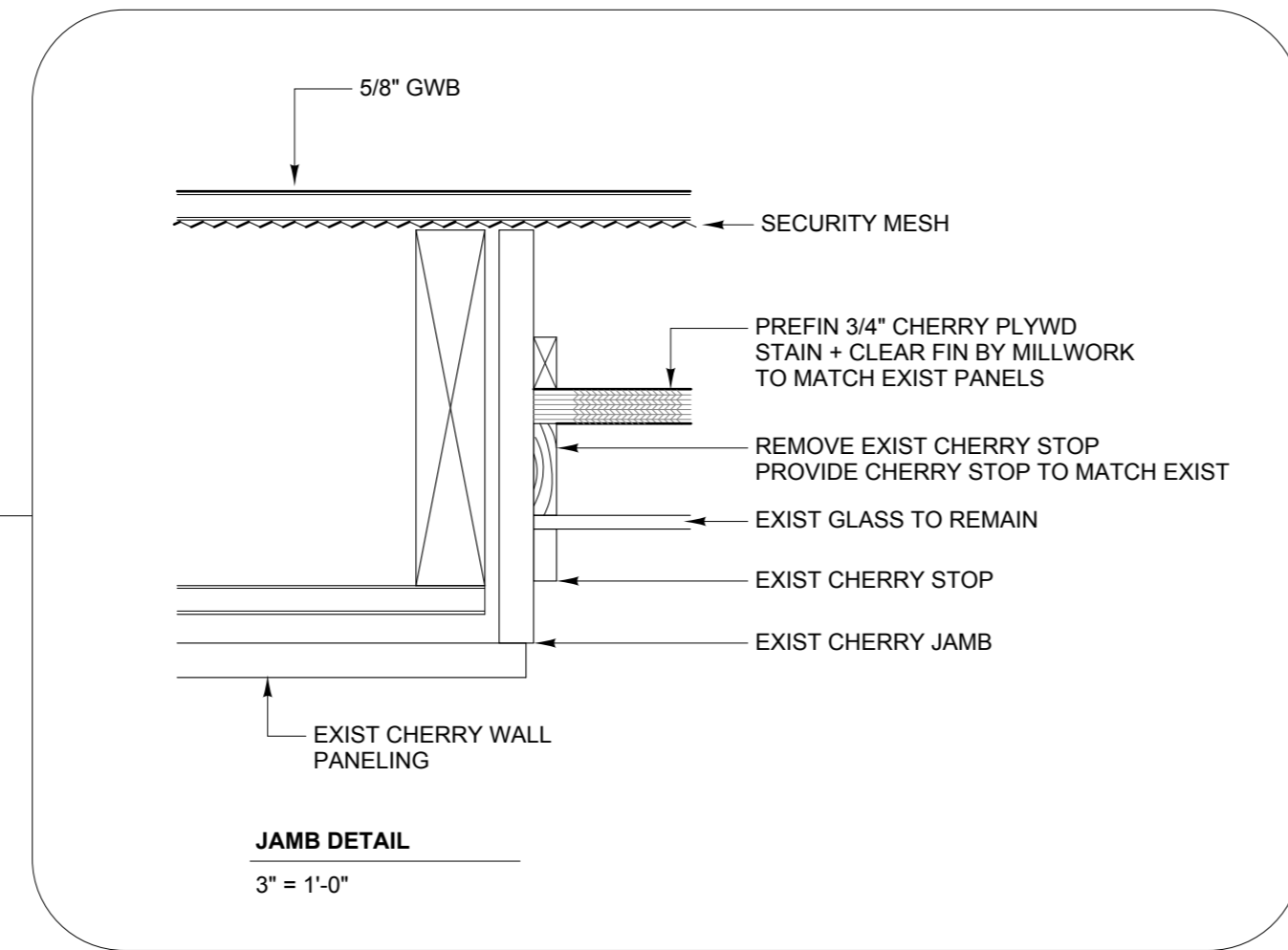
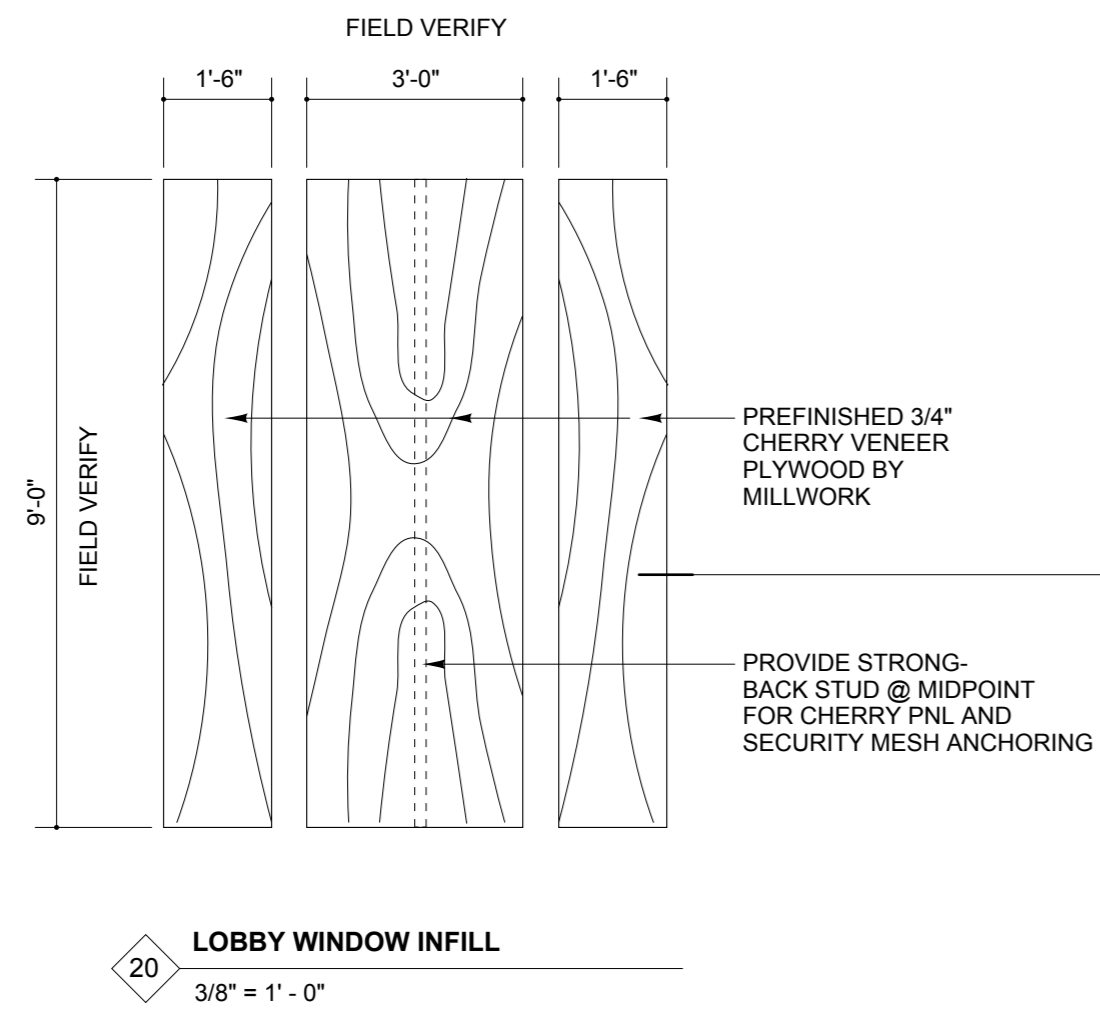
17 EXTERIOR WEST VESTIBULE
3/8" = 1' - 0"



18 EXTERIOR NORTH LOBBY
3/8" = 1' - 0"



19 EVIDENCE RM. 107
3/8" = 1' - 0"





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Mark M. Wilcox



LEGEND

| | |
|-------|---|
| PT | 12 X 12 PORCELAIN TILE |
| ASVCT | ANTI-STATIC VCT |
| CPT | 24 X 24 CARPET TILE : QTR TURN INSTALLATION |
| VCT | 12 X 12 VINYL COMPOSITION TILE |
| T-1 | FLOORING TRANSITION STRIP SEE DWG A501 |



2 Portland Square
 Portland, Maine

Office
 Renovations

Second Floor

Floor Finish
 Plan

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

A 702

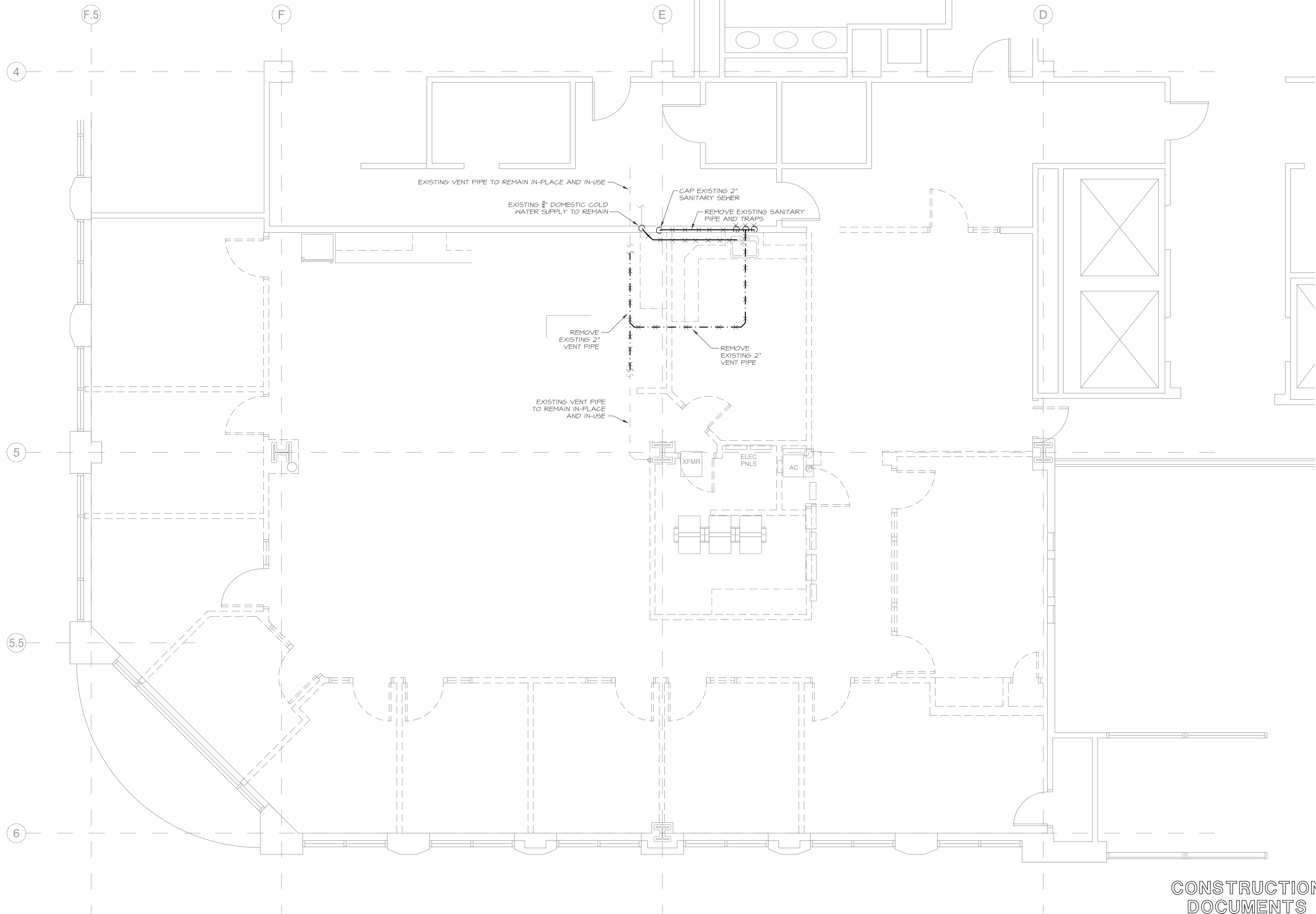
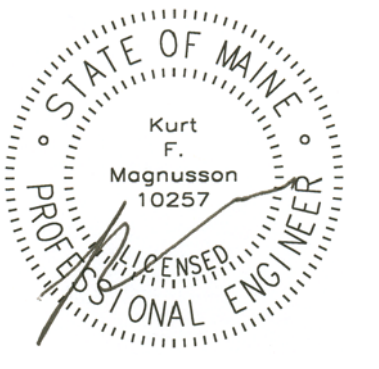
July 26, 2019

| LINE TYPES & SYMBOLS | |
|----------------------|---|
| | SANITARY / WASTE PIPING ABOVE FLOOR |
| | VENT PIPING ABOVE FLOOR |
| | COLD WATER PIPING |
| | SANITARY / WASTE PIPING ABOVE FLOOR TO BE REMOVED |
| | VENT PIPING ABOVE FLOOR TO BE REMOVED |
| | COLD WATER PIPING TO BE REMOVED |



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Second Floor

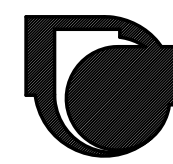
PLUMBING
 DEMOLITION
 PLAN

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

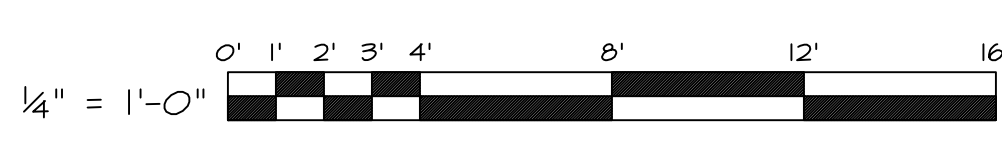
PD1

July 26, 2019

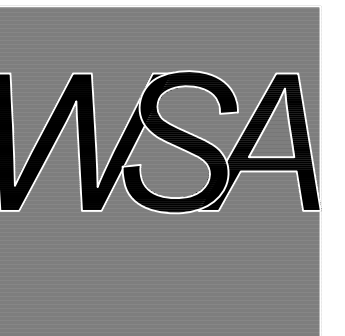
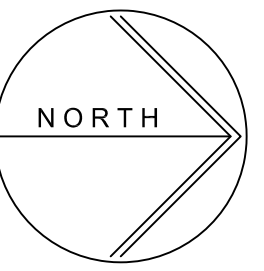
CONSTRUCTION
 DOCUMENTS



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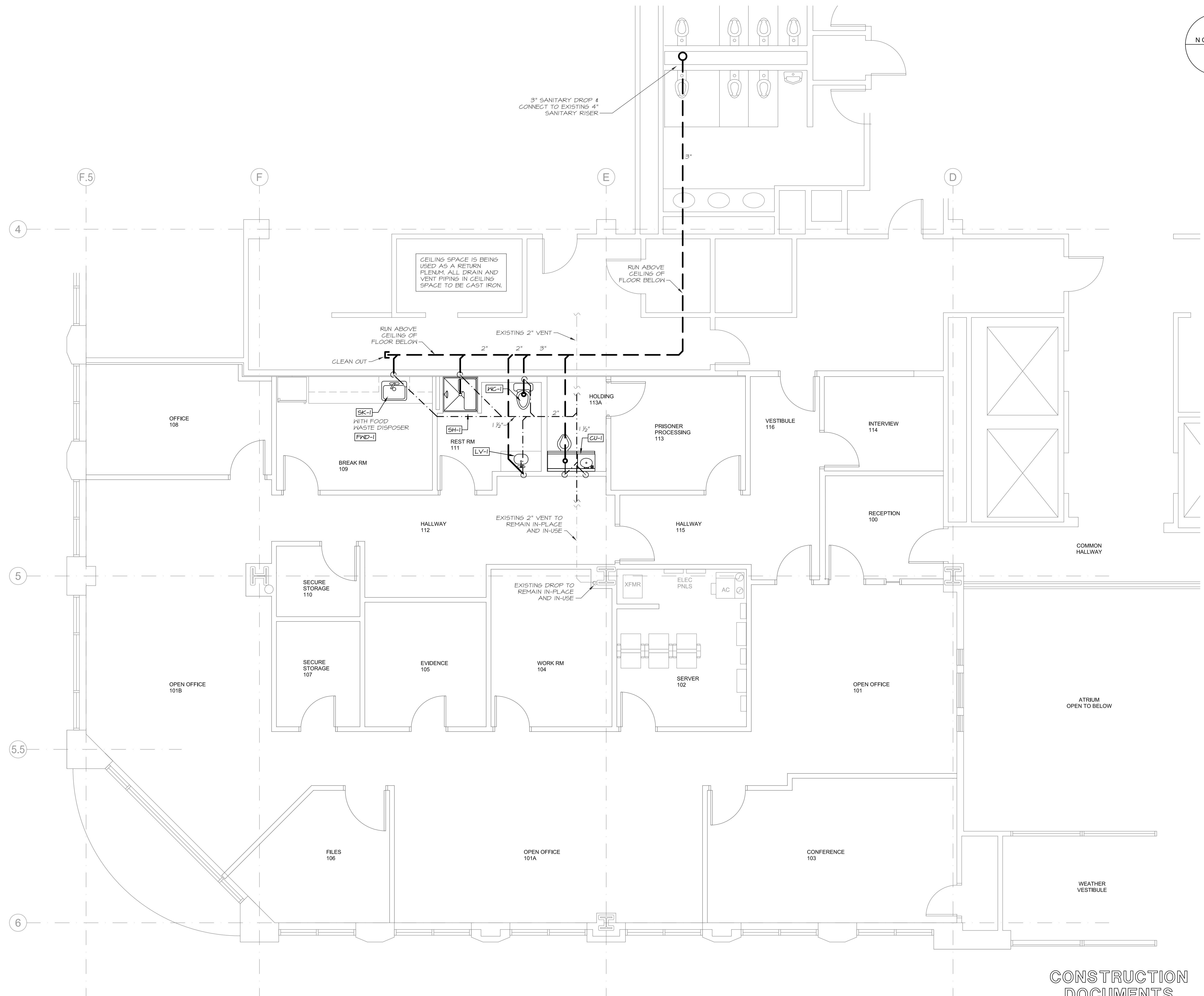


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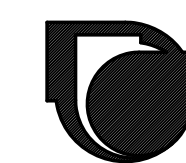
PLUMBING
 DRAIN & VENT
 PLAN

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

P1

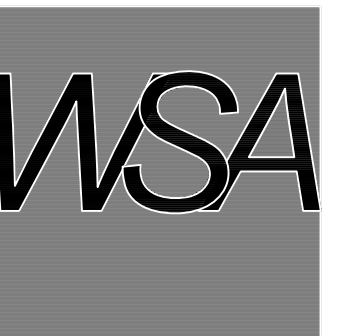
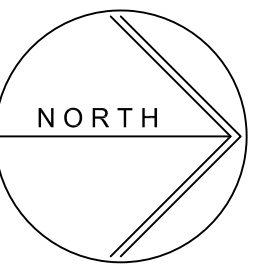
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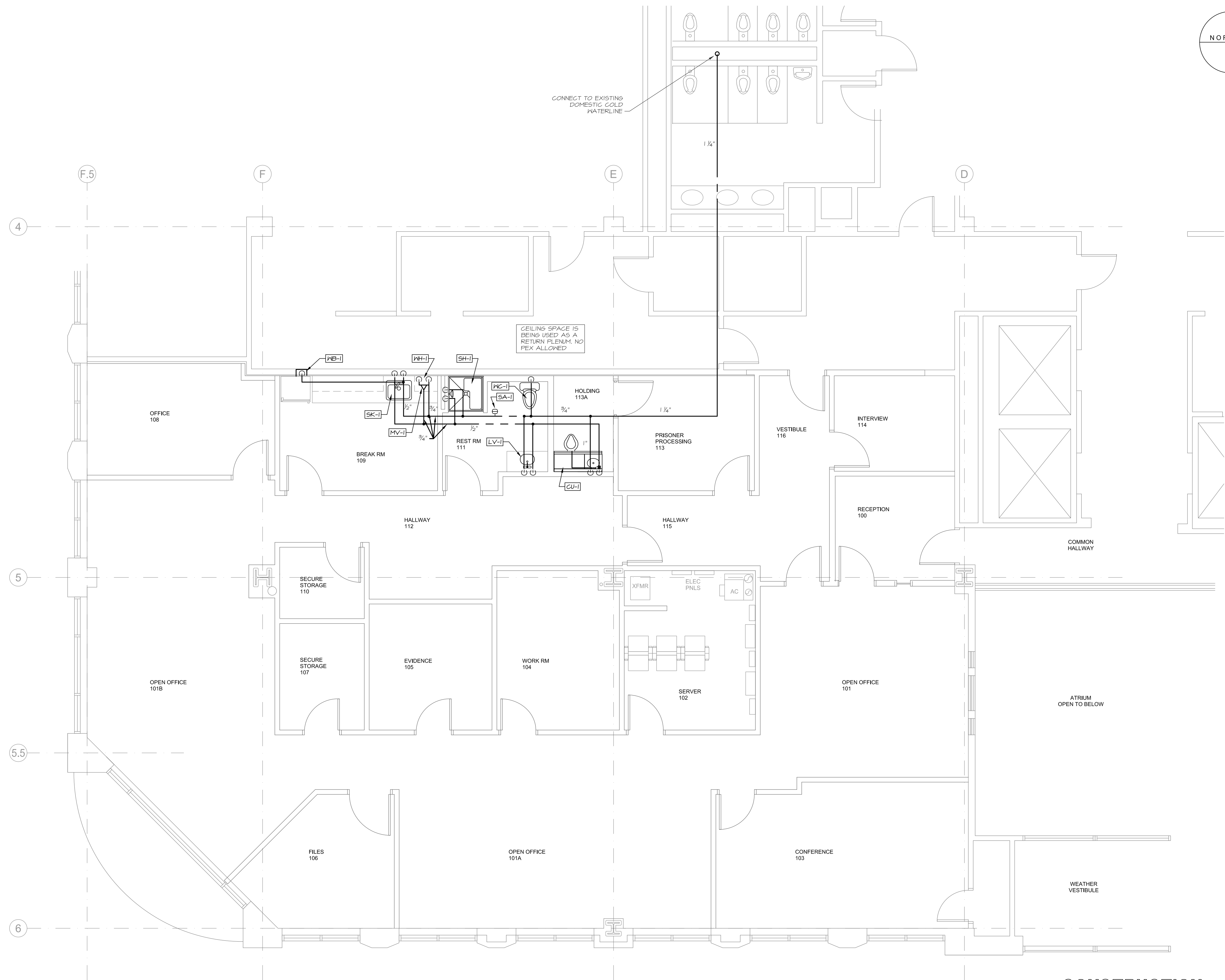
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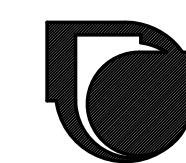
PLUMBING
 WATER
 PLAN

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

P2

July 26, 2019

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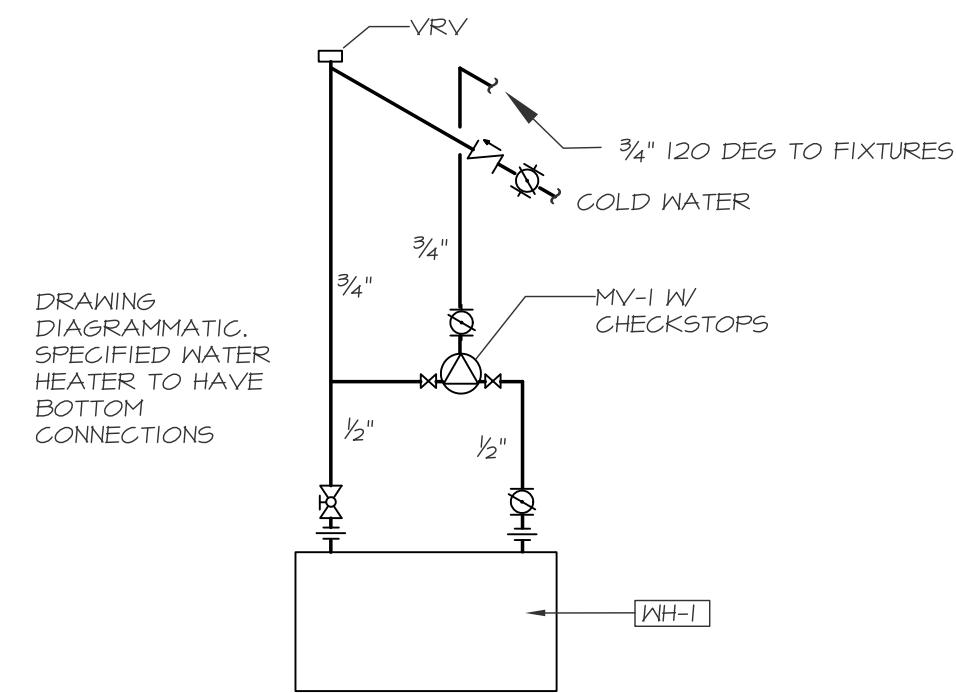


GENERAL NOTES

- All work shall be in accordance with the State Plumbing Code, local codes and ordinances, National Fire Code (NFPA), or these plans or specifications, whichever is more strict.
- All drawings are schematic only, and are intended to indicate the intent, extent, and general arrangement of work. They are not meant to show every fitting, change of direction or every situation. Verify locations in the field. Work indicated shall be furnished complete to perform the function intended.
- Carefully coordinate the space requirements and location of piping with the other trade contractors. Reserve space for sprinkler mains. If coordination fails, conflicts will be decided in favor of the other contractors with this contractor relocating his piping and equipment at no expense to the Owner.
- All plumbing fixtures shall be vented.
- This contractor shall make all final plumbing connections to equipment/ fixtures provided by other contractors.
- For pipe sizes not shown on floor plans, refer to: adjacent or enlarged plumbing plans, then appropriate schedules, details, specifications, equipment connection sizes and minimum Code requirements. For otherwise indeterminate pipe segments, the size shall be the same as the largest adjacent segment. Where pipe sizes are erroneously shown to decrease then increase, the smaller segment shall be increased to match the larger segment. When a conflict exists, the larger size shall govern. Pipe sizes are nominal (not O.D.) unless specifically noted otherwise.
- All piping shall run concealed above ceilings, in walls, in soffits and in chases unless noted otherwise. Special care shall be taken when dropping 3" nominal pipe in 3-1/2" wall cavities to ensure correct fit and alignment.
- No structural members shall be cut without approval of the Architect.
- All plumbing shall be supported from the building structure. All piping containing liquid 2" and larger shall be supported from the top chord of bar joists unless permission to do otherwise is obtained from the Structural Consultant. All piping drops to fixtures shall be anchored solid to walls with a steel support bracket with adjustable clip.
- All water piping shall be installed parallel to building lines and pitched to low points. Provide drain-offs at low points. Piping shall be run neatly grouped together when practical. Allow room between all piping and other obstructions to allow for the installation of the specified pipe insulation.
- All piping through roofs, concrete walls and masonry partitions shall have steel pipe sleeves. Openings between pipes and sleeves shall be caulked and sealed smoke and water tight. All pipe penetrations through a fire rated wall or floor shall have a UL rated fire stop system rated to match the rating of the wall, as per the NFPA.
- All wall fixtures shall be carrier mounted unless otherwise specified.
- All domestic and storm water piping shall be insulated unless otherwise specified.
- Run all piping on warm side of building insulation. No water, or drain lines shall be run in exterior walls, unless directly indicated.
- Provide shock absorbers where shown on drawings, and on tops of risers to all flush valves, dishwashers and clotheswashers. Sizes shall conform to P.D.I. standards.
- All sanitary waste piping less than 4" shall pitch down at 1/4" per L.F. All 4" and larger piping shall pitch at 1/8" per L.F., whenever possible. No sanitary/ waste piping under slab shall be less than 2" in diameter.
- All Domestic copper water piping shall be type "K" or "L" copper, type "M" is prohibited.

LINE TYPES & SYMBOLS

| | |
|--|------------------------------------|
| | SANITARY/ WASTE PIPING BELOW FLOOR |
| | SANITARY / WASTE PIPING ABOVE SLAB |
| | VENT PIPING ABOVE FLOOR |
| | VENT PIPING BELOW FLOOR |
| | COLD WATER PIPING |
| | 120 DEG HOT WATER PIPING |
| | BALL VALVE |
| | THERMOMETER |
| | SHOCK ABSORBER |
| | MIXING VALVE |
| | RELIEF VALVE |



HOT WATER HEATER DETAIL

PLUMBING FIXTURE SCHEDULE

| TAG | FIXTURE | COLD WATER | 120° WATER | SAN/ WASTE | VENT | REMARKS |
|------|---|------------|------------|-----------------|--------|--|
| CJ-1 | SECURITY COMBINATION UNIT ADA SINK & WATER CLOSET | 1" | 1/2" | 3" | 2" | LIGATURE-RESISTANT |
| LV-1 | LAVATORY ADA | 1/2" | 1/2" | 1-1/4" x 1-1/2" | 1-1/2" | COUNTERTOP & BOWL BY OTHERS ADA SINGLE HANDLE FAUCET |
| SH-1 | TRANSFER SHOWER ADA LEFT HAND | 1/2" | 1/2" | 2" | 1-1/2" | FIBERGLAS 30"X30" ADA SHOWER CONTROLS |
| SK-1 | KITCHEN SINK SINGLE BOWL ADA 22"X20"X6-1/2" | 1/2" | 1/2" | 2" | 1-1/2" | WITH ADA FAUCET WITH SPRAY WITH GARBAGE DISPOSAL |
| WC-1 | WATER CLOSET, TANK FLOOR MTD - LEFT ADA | 1/2" | | 3" | 2" | ADA RIM HEIGHT LEFT HAND TRIP LEVER |

WATER SPEC. SCHEDULE

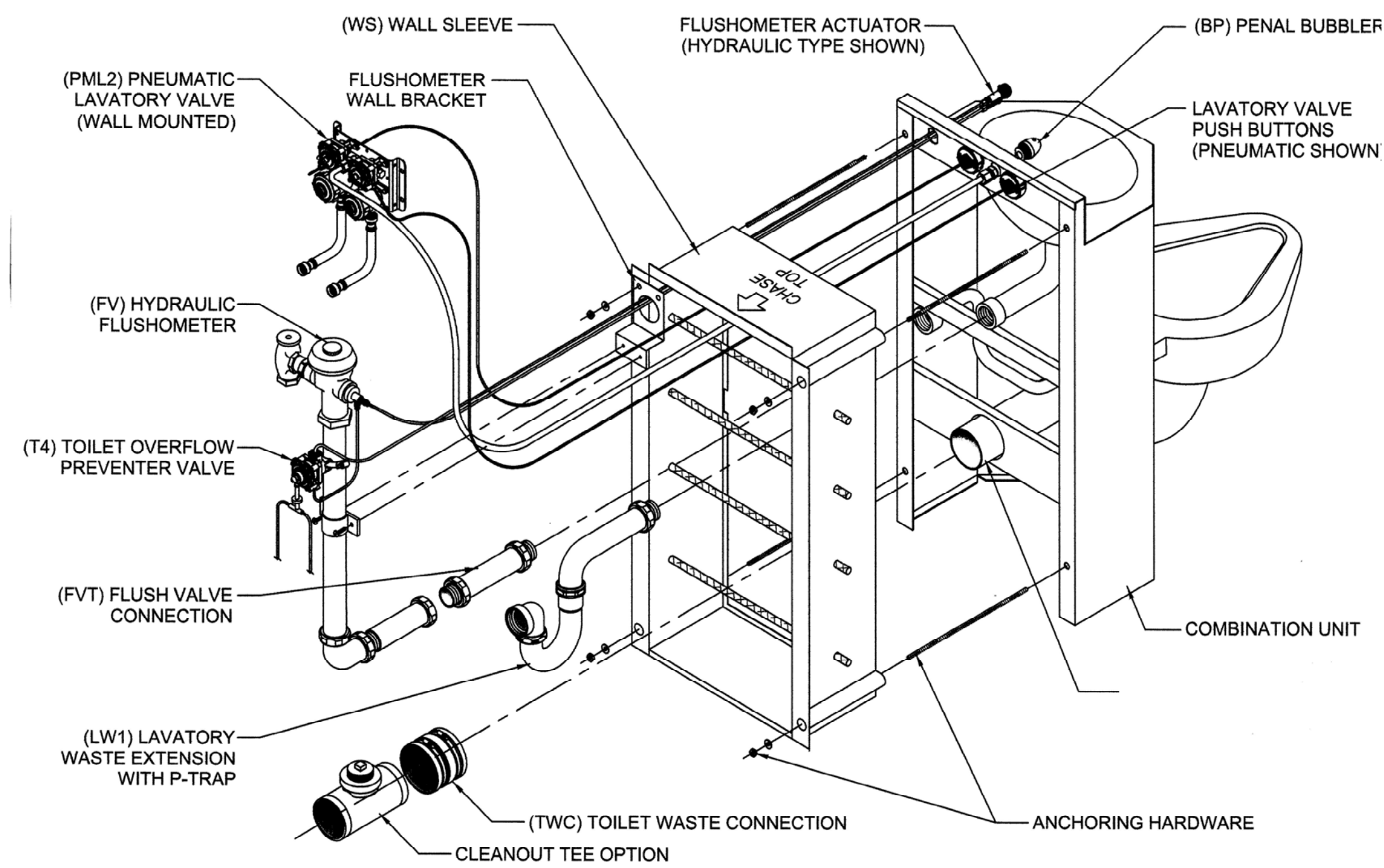
| TAG | ITEM | CW | HW | OUTLET | REMARKS |
|------|---------------------|------|------|--------|---------|
| MV-1 | MASTER MIXING VALVE | 1/2" | 1/2" | 1/2" | 120° |
| SA-1 | SHOCK ABSORBER | | 3/4" | - | A |

ELECTRIC WATER HEATER SCHEDULE

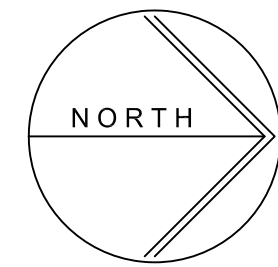
| TAG | ITEM | TYPE | POWER | VOLTS | PH | REMARKS |
|------|-----------------------|---------------|-------|-------|----|-----------------------------|
| WH-1 | DOMESTIC WATER HEATER | INSTANTANEOUS | 24 KW | 480 | 3 | MINIMUM TURN ON --- 0.3 GPM |

FOOD WASTE DISPOSER SCHEDULE

| TAG | ITEM | HP | AMP | VOLTS | PH | REMARKS |
|-------|---------------------|-----|-----|-------|----|---|
| FWD-1 | FOOD WASTE DISPOSER | 3/4 | 8.1 | 120 | 1 | TWO STAGES OF GRIND, SINK TOP SWITCH ACCESSORY AND POWER CORD |



COMBINATION SINK/WATER CLOSET DETAIL CU-1



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PLUMBING
NOTES, DETAIL
& SCHEDULE

SCALE: NONE

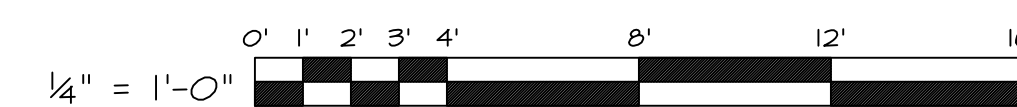
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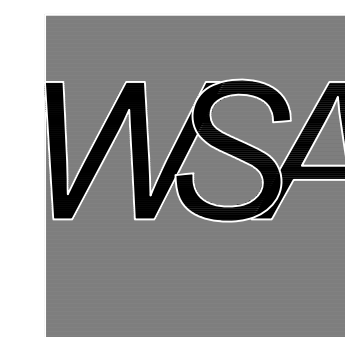
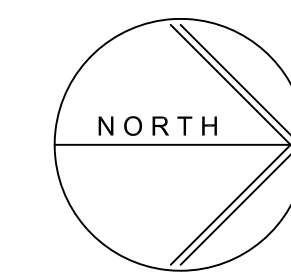
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CONSTRUCTION
DOCUMENTS



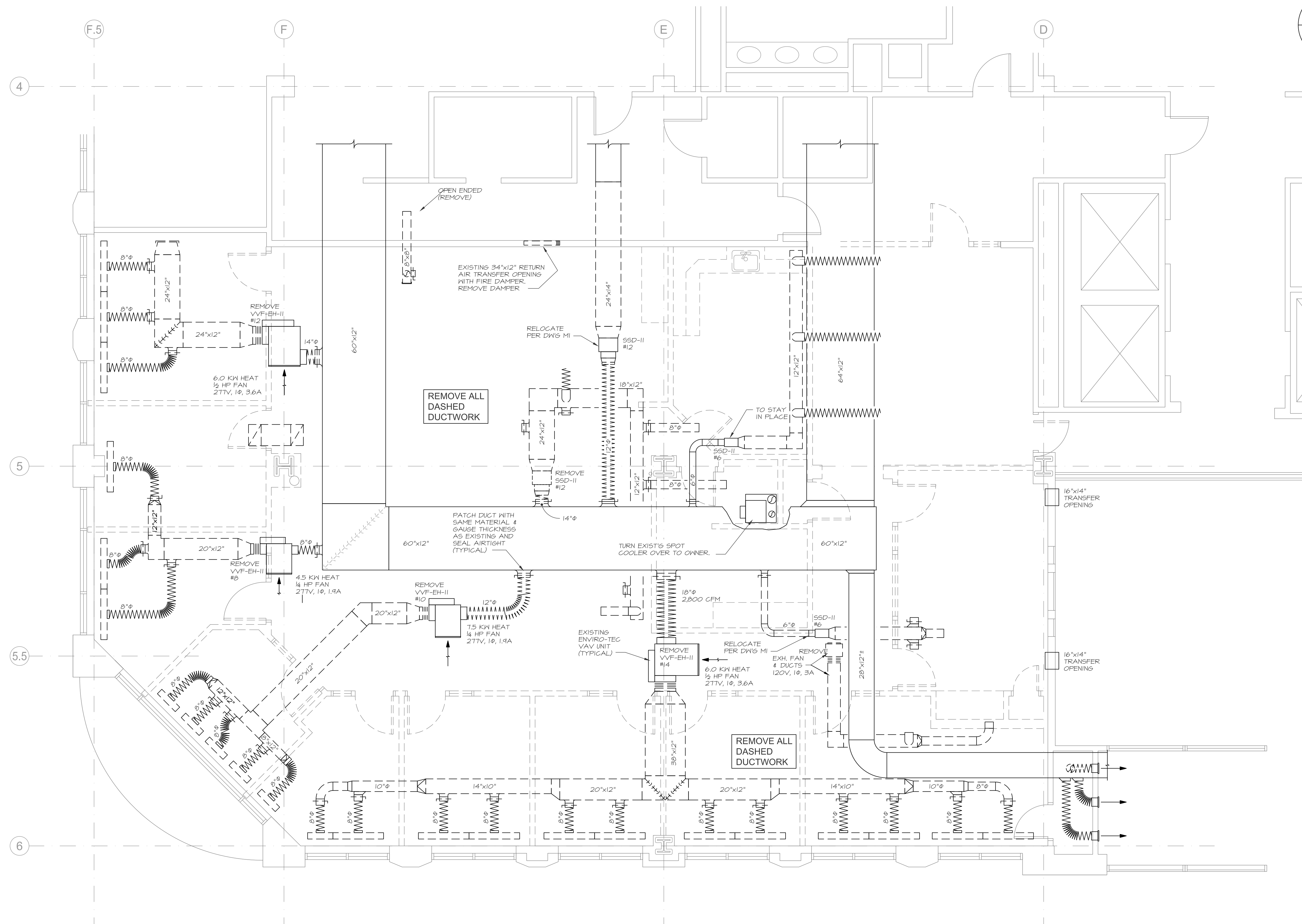
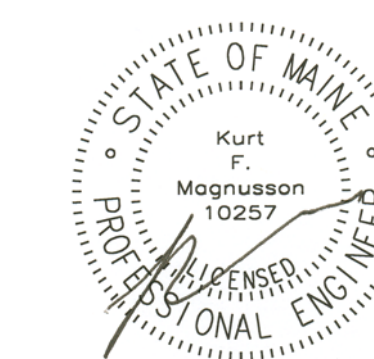
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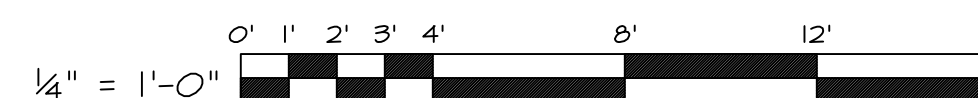
MECHANICAL
FLOOR PLAN
DEMOLITION

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

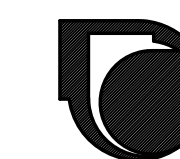
MD1

July 26, 2019

July 25, 2019 - 9:17 am
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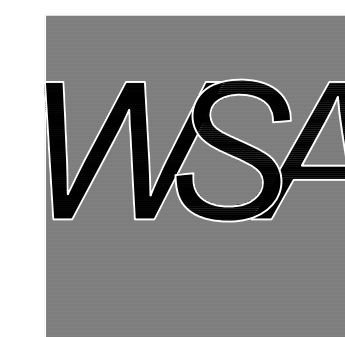
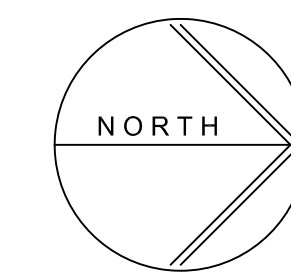


CONSTRUCTION
DOCUMENTS



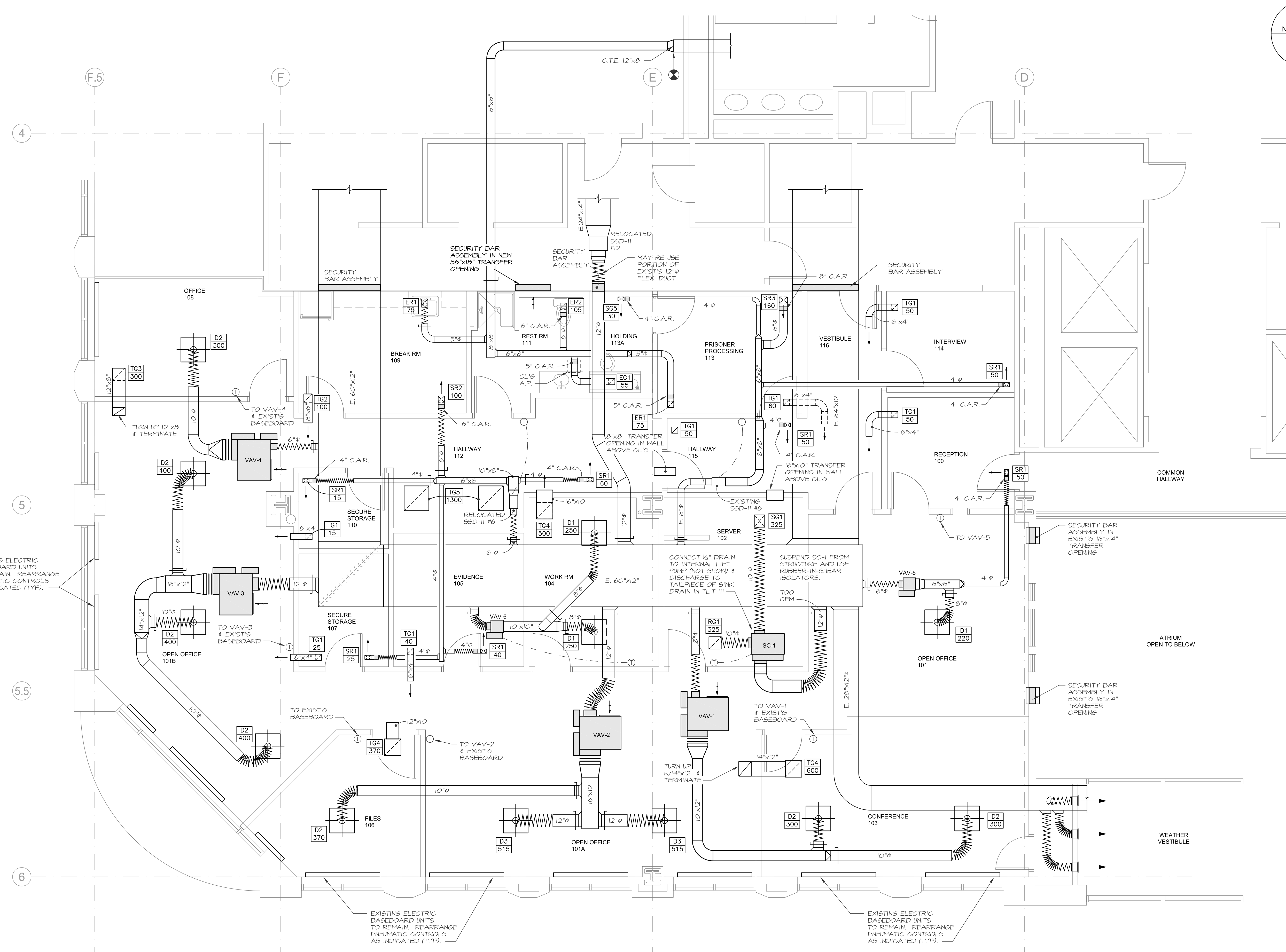
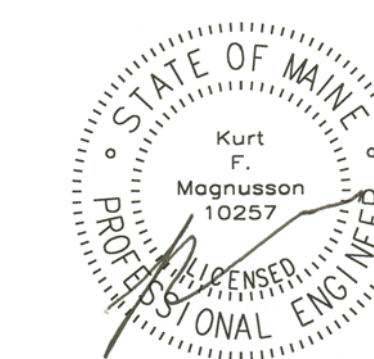
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EXISTING ELECTRIC BASEBOARD UNITS TO REMAIN. REARRANGE PNEUMATIC CONTROLS AS INDICATED (TYP).

EXISTING ELECTRIC BASEBOARD UNITS TO REMAIN. REARRANGE PNEUMATIC CONTROLS AS INDICATED (TYP).

EXISTING ELECTRIC BASEBOARD UNITS TO REMAIN. REARRANGE PNEUMATIC CONTROLS AS INDICATED (TYP).

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Second Floor

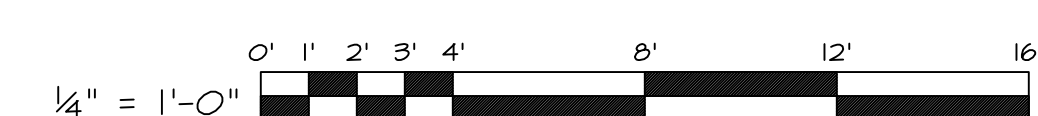
MECHANICAL
FLOOR PLAN
NEW WORK

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

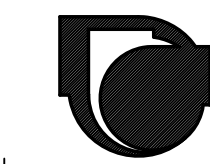
M1

July 26, 2019

July 25, 2019 9:19 am
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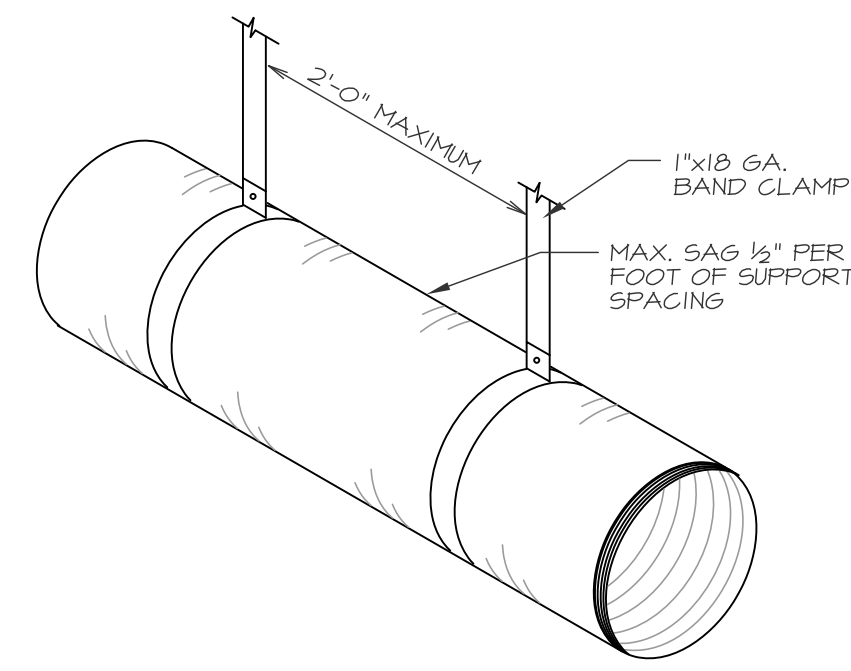


CONSTRUCTION
DOCUMENTS

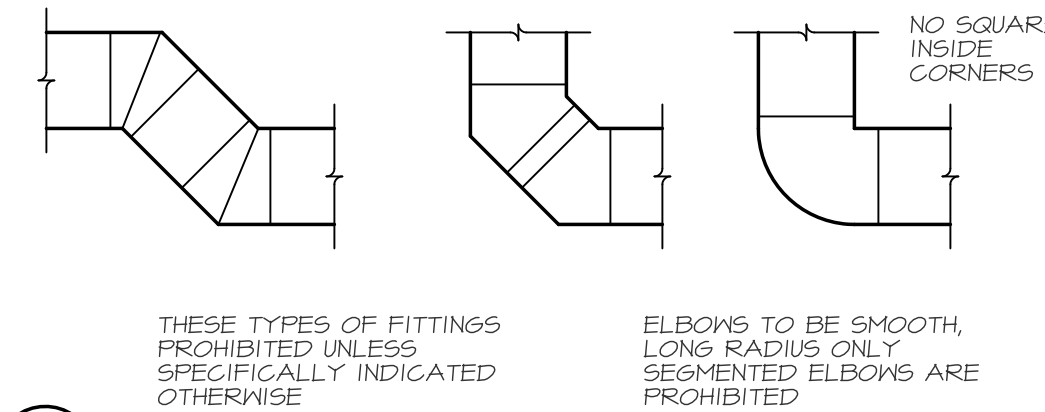


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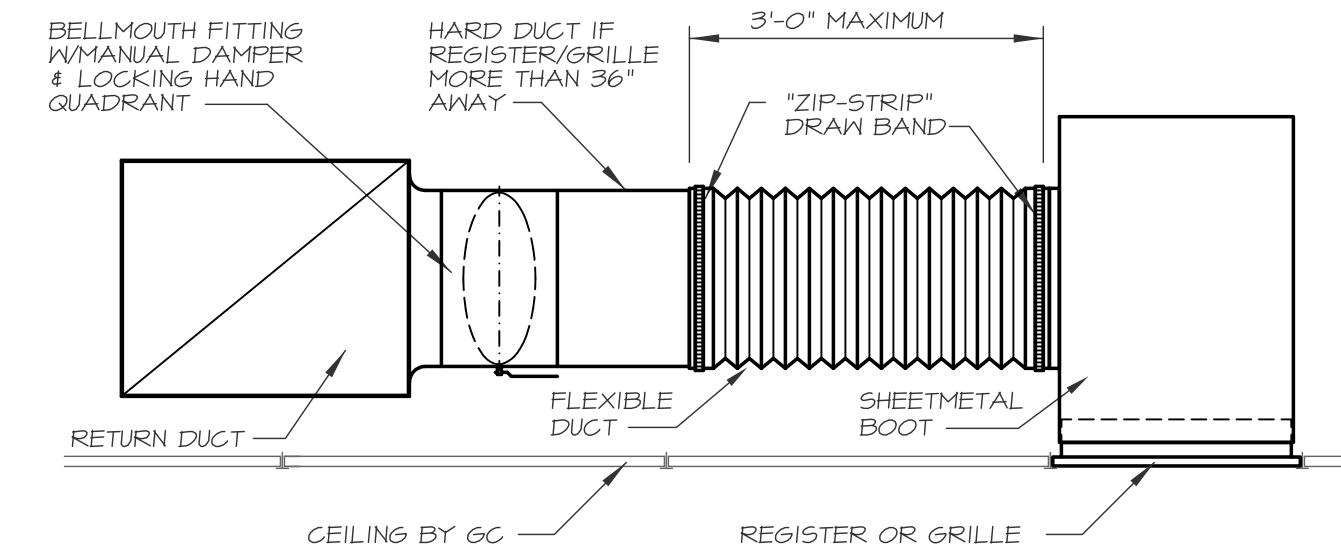




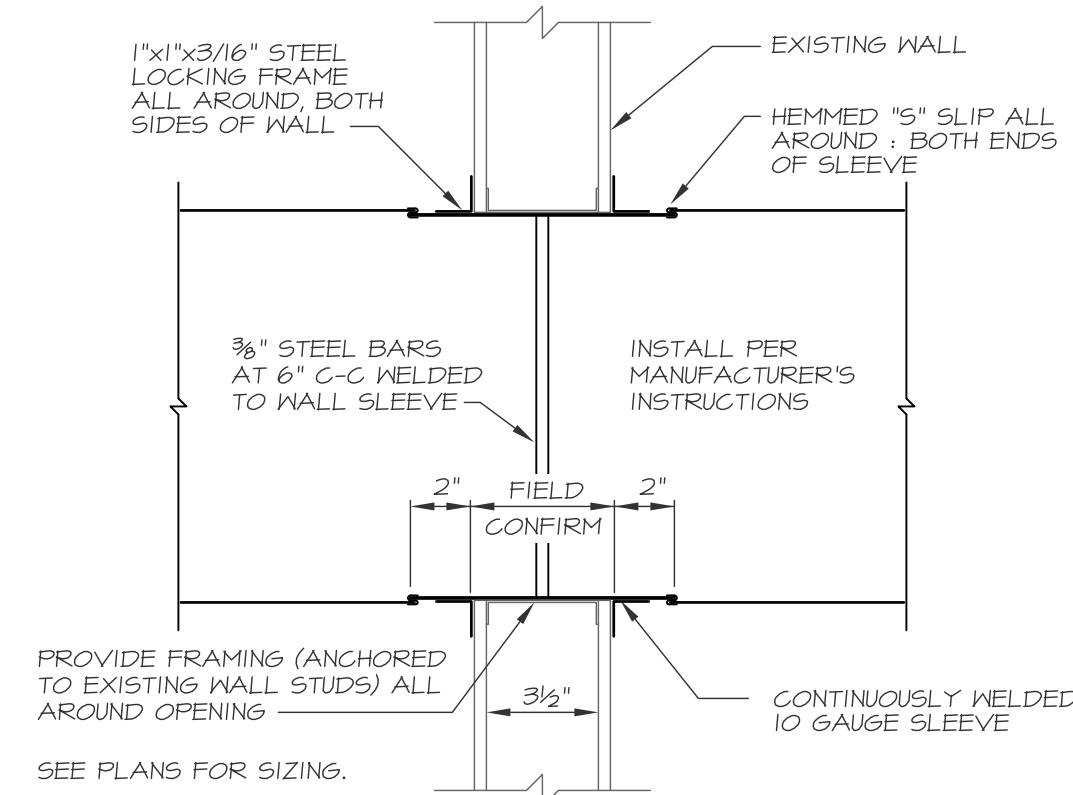
1 FLEXIBLE DUCT SUPPORT DETAIL
NO SCALE



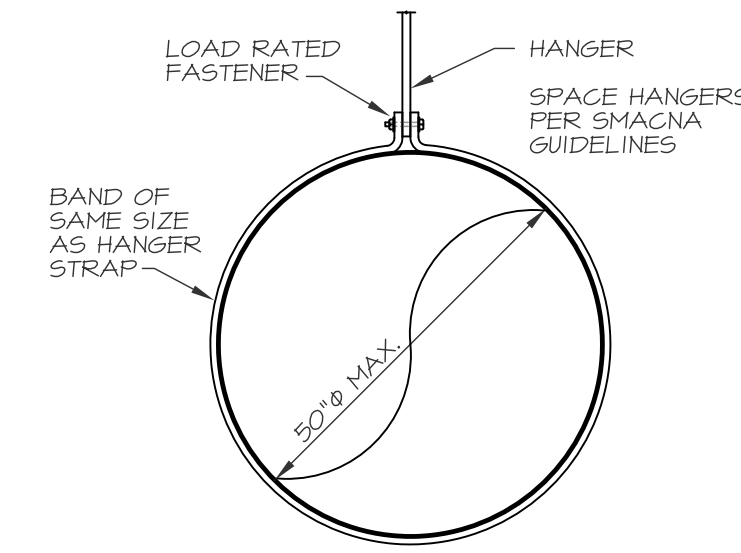
2 UNACCEPTABLE DUCT FITTINGS
NO SCALE



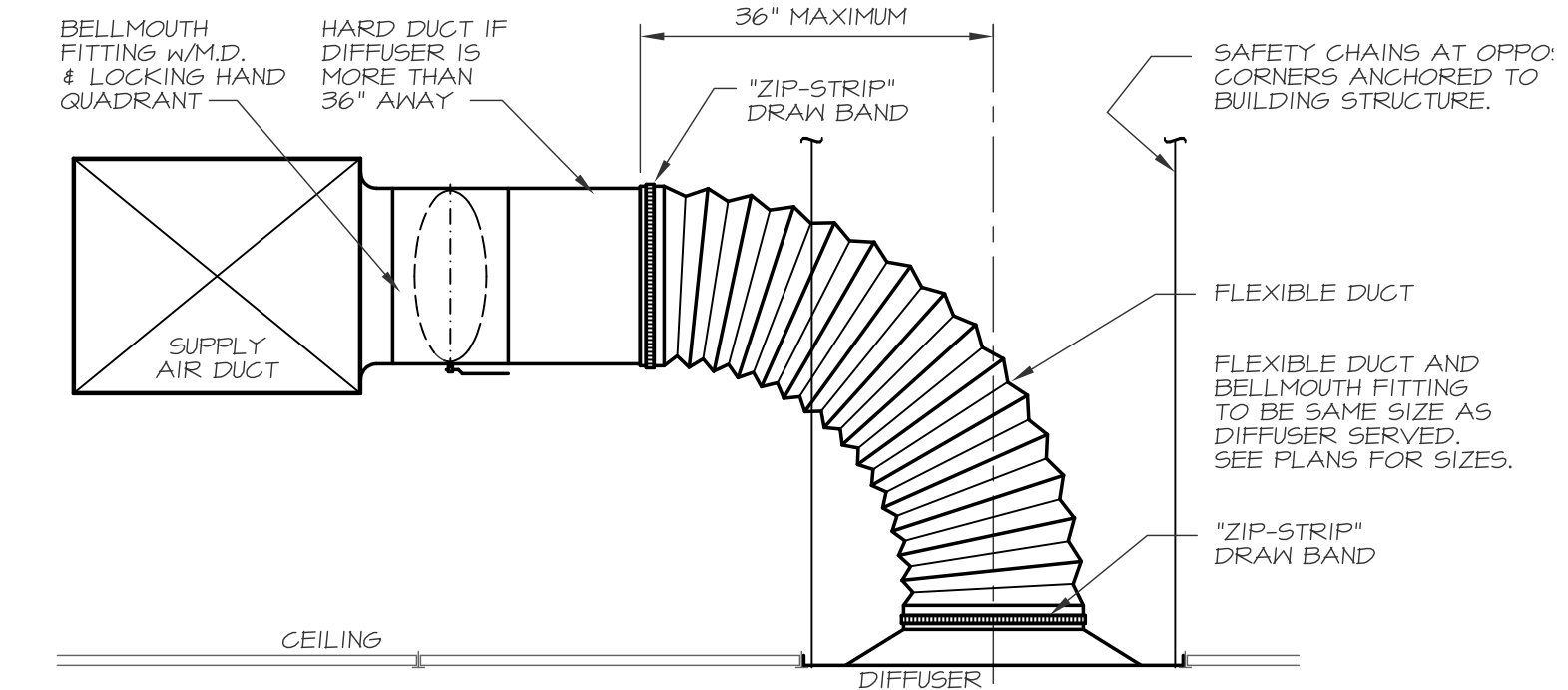
3 FLEXIBLE DUCT & REGISTER OR GRILLE CONNECTION DETAIL
NO SCALE



4 DUCT SECURITY BARS
NO SCALE



5 ROUND DUCT SUPPORT
NO SCALE



6 FLEXIBLE DUCT & DIFFUSER CONNECTION DETAIL
NO SCALE

SYMBOLS AND ABBREVIATIONS

| | | | | | |
|-------|---|--------|---------------------------|---|--------------------------|
| AC | AIR CONDITIONING | LAT | LEAVING AIR TEMPERATURE | ⊕ | THERMOSTAT |
| AD | ACCESS DOOR | LDB | LEAVING DRY BULB | ⊕ | THERMOSTAT WITH GUARD |
| AFF | ABOVE FINISH FLOOR | LWB | LEAVING WET BULB | ⊕ | |
| AP | ACCES PANEL | MBH | THOUSAND BTU PER HOUR | ⊕ | CONNECT TO EXISTING |
| APD | AIR PRESSURE DROP | MD | MANUAL DAMPER | ⊕ | MANUAL DAMPER |
| ATC | AUTOMATIC TEMP. CONTROL | MOD | MOTOR OPERATED DAMPER | ⊕ | |
| CAR | CONSTANT AIRFLOW REGULATOR | NTS | NOT TO SCALE | ⊕ | FLEXIBLE DUCT |
| CFM | CUBIC FEET PER MINUTE | OA | OUTDOOR AIR | ⊕ | LAY-IN DIFFUSER |
| CTE | CONNECT TO EXISTING | OD | OUTSIDE DIMENSION | ⊕ | |
| DIFF | DIFFUSER | PC | PLUMBING CONTRACTOR | ⊕ | SURFACE MOUNT DIFFUSER |
| EAT | ENTERING AIR TEMPERATURE | R | RETURN | ⊕ | SUPPLY AIR DUCT |
| EC | ELECTRICAL CONTRACTOR | RA | RETURN AIR | ⊕ | RETURN / RELIEF AIR DUCT |
| EDB | ENTERING DRY BULB | RCG | RETURN CEILING GRILLE | ⊕ | |
| EG | EXHAUST GRILLE | RCR | RETURN CEILING REGISTER | ⊕ | |
| ER | EXHAUST REGISTER | RF | RETURN FAN | ⊕ | |
| ESP | EXTERNAL STATIC PRESSURE | RG | RETURN/RELIEF GRILLE | ⊕ | |
| EWB | ENTERING WET BULB | RHC | REHEAT COIL | ⊕ | |
| FC | FLEXIBLE CONNECTOR | RIC | RETURN IN COVER | ⊕ | |
| FD | FIRE DAMPER | RIS | RUBBER-IN-SHEAR | ⊕ | |
| FS | FLOW SENSOR | RR | RETURN REGISTER | ⊕ | |
| FV | FACE VELOCITY | S | SUPPLY | ⊕ | |
| GC | GENERAL CONTRACTOR | SA | SUPPLY AIR | ⊕ | |
| HC | HEATING CONTRACTOR | SC | SPOT COOLER | ⊕ | |
| HD | HEAVY DUTY | SG | SUPPLY GRILLE | ⊕ | |
| HP | HEAT PUMP | SP | STATIC PRESSURE | ⊕ | |
| HPR | HEAT PUMP RETURN | SR | SUPPLY REGISTER | ⊕ | |
| HPS | HEAT PUMP SUPPLY | T | THERMOMETER | ⊕ | |
| HPS | HIGH PRESSURE STEAM | TC | TEMPERATURE CONTROL | ⊕ | |
| HRU | HEAT RECOVERY UNIT | TCP | TEMPERATURE CONTROL PANEL | ⊕ | |
| HWR | HOT WATER RETURN | TG | TRANSFER GRILLE | ⊕ | |
| HWS | HOT WATER SUPPLY | TSP | TOTAL STATIC PRESSURE | ⊕ | |
| HTHWR | HIGH TEMP. HOT WATER RETURN | T'STAT | THERMOSTAT | ⊕ | |
| HTHWS | HIGH TEMP. HOT WATER SUPPLY | TV | TURNING VANE | ⊕ | |
| H&V | HEATING & VENTILATING | UC | UNDERCUT | ⊕ | |
| HVAC | HEATING, VENTILATING AND AIR CONDITIONING | VAV | VARIABLE AIR VOLUME | ⊕ | |
| IER | INVERTED ECCENTRIC REDUCER | VI | VIBRATION ISOLATOR | ⊕ | |

VARIABLE AIR VOLUME UNITS

| TAG | AREA SERVED | TOTAL CFM | DISCH S.P. | VALVE CFM COOLING | | HEATING CFM | | HEATING COIL | | | | ELECTRICAL | | | | REMARKS | | |
|-------|------------------|-----------|------------|-------------------|-----|-------------|-------|-------------------------|-------|-------|-----|------------|-----|-------|-------|---------|------------|-------------------------|
| | | | | MAX | MIN | FAN | VALVE | EAT | LAT | MBH | KW | STAGES | HP | FLA | MCA | | MOP | VOLTAGE |
| VAV-1 | 103 CONFERENCE | 600 | 3/8" | 400 | 200 | 400 | 200 | 65 | 80.74 | 10.24 | 3.0 | 2 | 1/3 | 13.23 | 16.54 | 20.00 | 277V-60-10 | PARALLEL WITH ECM MOTOR |
| VAV-2 | 101A & 106 | 1,400 | 3/8" | 1,400 | 470 | 930 | 470 | 65 | 82.95 | 27.32 | 8.0 | 2 | 1/3 | 31.28 | 39.10 | 40.00 | 277V-60-10 | PARALLEL WITH ECM MOTOR |
| VAV-3 | 101B OPEN OFFICE | 1,200 | 3/8" | 1,200 | 400 | 800 | 400 | 65 | 80.74 | 20.49 | 6.0 | 2 | 1/3 | 24.06 | 30.08 | 35.00 | 277V-60-10 | PARALLEL WITH ECM MOTOR |
| VAV-4 | 108 OFFICE | 300 | 3/8" | 300 | 100 | 200 | 100 | 65 | 80.74 | 5.12 | 1.5 | 2 | 1/3 | 7.82 | 9.77 | 15.00 | 277V-60-10 | PARALLEL WITH ECM MOTOR |
| VAV-5 | 100 & 101 | 270 | 3/8" | 270 | N/A | 90 | 180 | NO HEATING COIL, NO FAN | | | | | | | | | | SINGLE DUCT TERMINAL |
| VAV-6 | 104 WORK ROOM | 500 | 3/8" | 500 | 170 | N/A | 170 | NO HEATING COIL, NO FAN | | | | | | | | | | SINGLE DUCT TERMINAL |

PRIMARY AIR @ 55"

AIR TERMINAL SCHEDULE

| TAG | SIZE | MAX CFM | MAX NC | MAX SP | REMARKS |
|-----|-----------|---------|--------|--------|--------------------------------------|
| D1 | 8"Ø | 275 | 20 | 0.072" | SQUARE DIFFUSER / 24x24 LAY-IN PANEL |
| D2 | 10"Ø | 400 | 21 | 0.062" | SQUARE DIFFUSER / 24x24 LAY-IN PANEL |
| D3 | 12"Ø | 515 | 20 | 0.049" | SQUARE DIFFUSER / 24x24 LAY-IN PANEL |
| EG1 | 6" x 6" | 55 | 20 | 0.003" | SECURITY GRILLE |
| ER1 | 6" x 4" | 90 | 20 | 0.100" | EXHAUST REGISTER |
| ER2 | 6" x 6" | 105 | 20 | 0.100" | EXHAUST REGISTER |
| RG1 | 12" x 12" | 325 | 20 | 0.070" | RETURN GRILLE |
| SG1 | 12" x 10" | 325 | 20 | 0.070" | DOUBLE DEFLECTION SUPPLY GRILLE |
| SR1 | 6" x 4" | 85 | 20 | 0.080" | DOUBLE DEFLECTION SUPPLY REGISTER |
| SR2 | 6" x 6" | 130 | 20 | 0.080" | DOUBLE DEFLECTION SUPPLY REGISTER |
| SR3 | 8" x 6" | 170 | 20 | 0.070" | DOUBLE DEFLECTION SUPPLY REGISTER |
| SR4 | 8" x 8" | 230 | 20 | 0.070" | DOUBLE DEFLECTION SUPPLY REGISTER |
| SR5 | 6" x 6" | 55 | 20 | 0.003" | SECURITY GRILLE |
| TG1 | 6" x 6" | 75 | 20 | 0.032" | TRANSFER GRILLE |
| TG2 | 8" x 8" | 150 | 20 | 0.032" | TRANSFER GRILLE |
| TG3 | 12" x 12" | 350 | 20 | 0.032" | TRANSFER GRILLE |
| TG4 | 16" x 16" | 650 | 20 | 0.032" | TRANSFER GRILLE |
| TG5 | 24" x 24" | 1,500 | 20 | 0.032" | TRANSFER GRILLE WITH LAY-IN FRAME |

NC & S.P. VALUES ARE FOR HORIZONTAL THROW

SPOT COOLER:

HORIZONTAL ABOVE CEILING UNIT, 10,500 BTU TOTAL COOLING @ 80°/67° AIR ENTERING THE EVAPORATOR AND 95°DB ENTERING THE CONDENSER, 324/228 CFM EVAPORATOR AIR AND 700/370 CFM CONDENSER AIR, R-410A REFRIGERANT, 128 POUNDS INTERNAL CONDENSATE LIFT PUMP 115V-60-10, 15A CIRCUIT. PROVIDE WITH FACTORY THERMOSTAT AND CONDENSER AIR INTAKE PLENUM.

GENERAL NOTES

- Mechanical Contractor shall coordinate work with all other trades.
- Ductwork is shown diagrammatically. Exact locations to be adjusted as required to conform to field conditions.
- All duct sizes indicated are outside (sheet metal) dimensions.
- All cutting and patching by the General Contractor.
- All square duct elbows over 12 inches in width to have turning vanes.
- Refer to Architectural Reflected Ceiling Plans for exact locations of all ceiling registers, diffusers and grilles.
- Duct branches to individual diffusers shall be the same size as the diffuser neck.
- All dimensions associated with existing conditions are approximate and are to be field verified.
- All removed materials shall remain the property of the building Owner until such time the Owner's authorized representative has reviewed the removed items and taken what the Owner wishes to retain. All remaining items shall become the property of the Contractor and shall be immediately removed from the premises by the Contractor.

2 Portland Square
Portland, Maine

Office
Renovations

Second Floor

MECHANICAL
DETAILS &
SCHEDULES

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

M2

July 26, 2019

CONSTRUCTION
DOCUMENTS



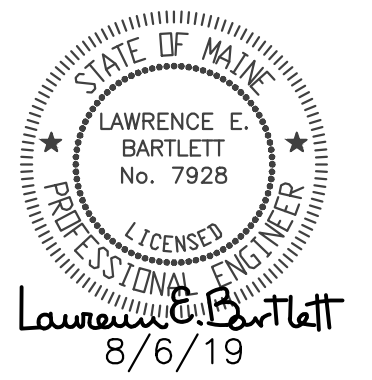
MECHANICAL SYSTEMS ENGINEERS
ROYAL RIVER CENTER, UNIT 108
10 FOREST FALLS DRIVE, YARMOUTH, MAINE 04096
(207) 846-1441
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Winton Scott Architects
 5 Milk Street
 Portland, Maine 04101
 207 774 4811
 www.wintonsscott.com

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Reviewed for Code Compliance
 Permitting and Inspections Department
 Approved with Conditions

05/27/2020

2 Portland Square
 Portland, Maine

Office
 Renovations

Second Floor

Electrical Floor
 Plan

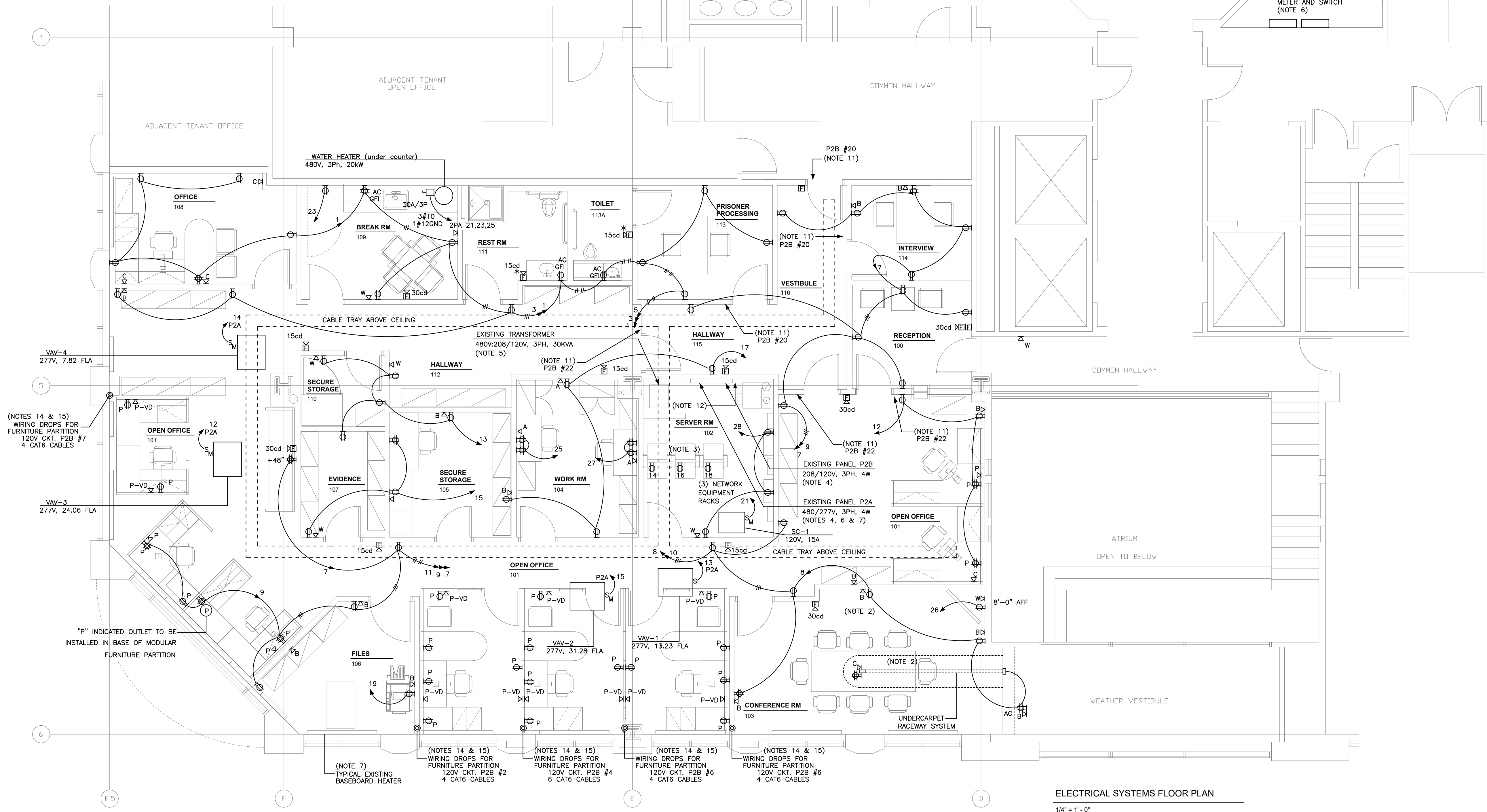
Scale: 1/4" = 1' - 0"

E 101

August 6, 2019

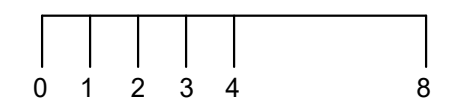
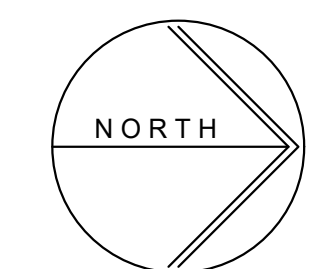
E101 NOTES

- CIRCUIT NUMBERS REFER TO PANEL P2B, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.
- VERIFY EXACT LOCATION OF UNDERCARPET RACEWAY SYSTEM WITH ARCHITECT PRIOR TO INSTALLATION.
- PROVIDE POWER WHIPS FROM THE ADJACENT WALL TO SERVE A DEDICATED RECEPTACLE OUTLET AT EACH OF THE THREE NETWORK EQUIPMENT RACKS IN SERVER ROOM 102. WHIPS SHALL CONSIST OF 2#12, 1#12GND IN A 3/4-INCH LIQUID TIGHT FLEXIBLE CONDUIT. INSTALL THE RECEPTACLE OUTLETS AT THE BASE OF EACH EQUIPMENT RACK.
- DISCONNECT AND REMOVE EXISTING PANELBOARDS FROM CLOSET BEING DEMOLISHED WITHIN TENANT SPACE AND REINSTALL PANELS WHERE INDICATED ON THE PLAN.
- DISCONNECT AND REMOVE EXISTING TRANSFORMER FROM CLOSET BEING DEMOLISHED WITHIN TENANT SPACE AND REINSTALL TRANSFORMER WHERE INDICATED ON THE PLAN.
- PROVIDE A NEW FEEDER TO SERVE THE RELOCATED PANEL P2A. ROUTE FEEDER FROM THE EXISTING UTILITY METER AND SWITCH IN ADJACENT TENANT SPACE ELECTRICAL CLOSET. NEW FEEDER SHALL BE 4 #4/0, 1 #2 GND, IN A 3-1/2" CONDUIT.
- EXTEND EXISTING 277 VOLT CIRCUITS FOR EXISTING ELECTRIC BASEBOARD HEATERS WITHIN TENANT AREA TO RELOCATED PANEL P2A.
- PROVIDE CAT6 4-PAIR CABLE FROM EACH TELCOM OUTLET TO BE EXTENDED TO THE NETWORK EQUIPMENT RACKS IN SERVER ROOM 102. EXTEND CABLES IN 3/4" CONDUIT FROM OUTLET BOX TO CEILING SPACE ABOVE. ROUTE CABLES ABOVE CEILING IN CABLE TRAY. TERMINATE NETWORK CABLES IN PATCH PANELS WITHIN EQUIPMENT RACKS.
- SECURITY SYSTEM EQUIPMENT, DEVICES, AND WIRING WILL BE SUPPLIED AND INSTALLED BY OTHERS. PROVIDE BOXES AS SHOWN ON SHEET E 104.
- EXTEND FIRE ALARM CABLE IN CONDUIT TO EXISTING FIRE ALARM CONTROL PANEL LOCATED ON THE SECOND FLOOR.
- WHERE INDICATED, PROVIDE A DUPLEX RECEPTACLE OUTLETS AS DESCRIBED ON SHEET E 104.
- WHERE INDICATED, PROVIDE 120VAC CONNECTIONS (CIRCUIT P2B #24) TO SECURITY SYSTEM LOCK POWER SUPPLY UNITS AS DESCRIBED ON SHEET E 104 AS EQUIPMENT ITEM "D".
- PROVIDE A 4 INCH CONDUIT WITH A 50-PAIR CAT6 CABLE, AND A 4 INCH CONDUIT WITH A 12-STRAND MULTI-MODE OPTICAL FIBER CABLE, BETWEEN THE EXISTING NETWORK DEMARCATION POINT IN THE FIRST FLOOR TELEPHONE ROOM AND THE EQUIPMENT RACKS IN SERVER ROOM 102. ROUTE THE CONDUITS ABOVE THE CEILINGS BETWEEN ROOMS.
- WHERE INDICATED, PROVIDE NETWORK WIRING DROPS FOR FURNITURE PARTITIONS. ROUTE THE WIRING FROM THE CEILING ABOVE, AND DROP VERTICALLY CONCEALED WITHIN WALL ENCLOSURE. PROVIDE FACEPLATES WITH OUTLET JACKS WITH 14-FOOT CAT6 PATCH CABLE FOR EACH OUTLET FOR LOCAL EQUIPMENT CONNECTION.
- WHERE INDICATED, PROVIDE POWER WIRING DROPS FOR FURNITURE PARTITIONS. ROUTE THE WIRING FROM THE CEILING ABOVE, AND DROP VERTICALLY CONCEALED WITHIN WALL ENCLOSURE. PROVIDE FACEPLATES WITH CABLE GOMMET. PROVIDE POWER CABLE WHIPS IN LENGTHS AS REQUIRED TO CONNECT TO FURNITURE PARTITIONS.



ELECTRICAL SYSTEMS FLOOR PLAN

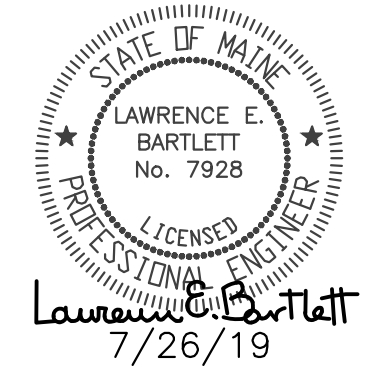
1/4" = 1' - 0"





Winton Scott Architects
 5 Milk Street
 Portland, Maine 04101
 207 774 4811
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 Interior Architecture



LIGHTING PLAN
 1/4" = 1' - 0"

E102 NOTES

1. CIRCUIT NUMBERS REFER TO PANEL P2A, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. SEE SHEET E101 FOR PANEL LOCATIONS.
2. CONNECT EMERGENCY LIGHTS (TYPE E1) AND EXIT SIGNS (TYPES X1 AND X2) TO LOCAL LIGHT FIXTURES AHEAD OF MOTION SENSOR CONTROL.

2 Portland Square
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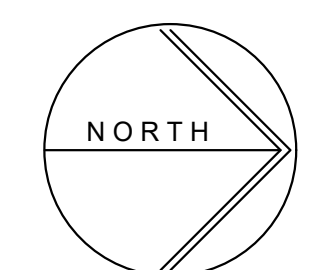
Office
 Renovations

Second Floor

Lighting Plan

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

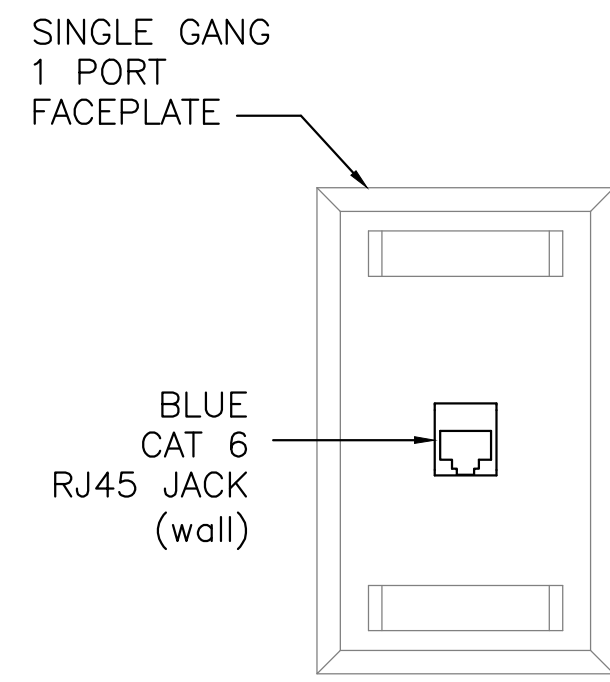
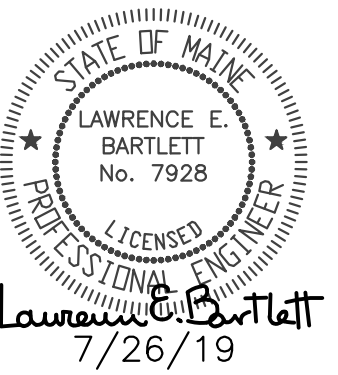
E 102



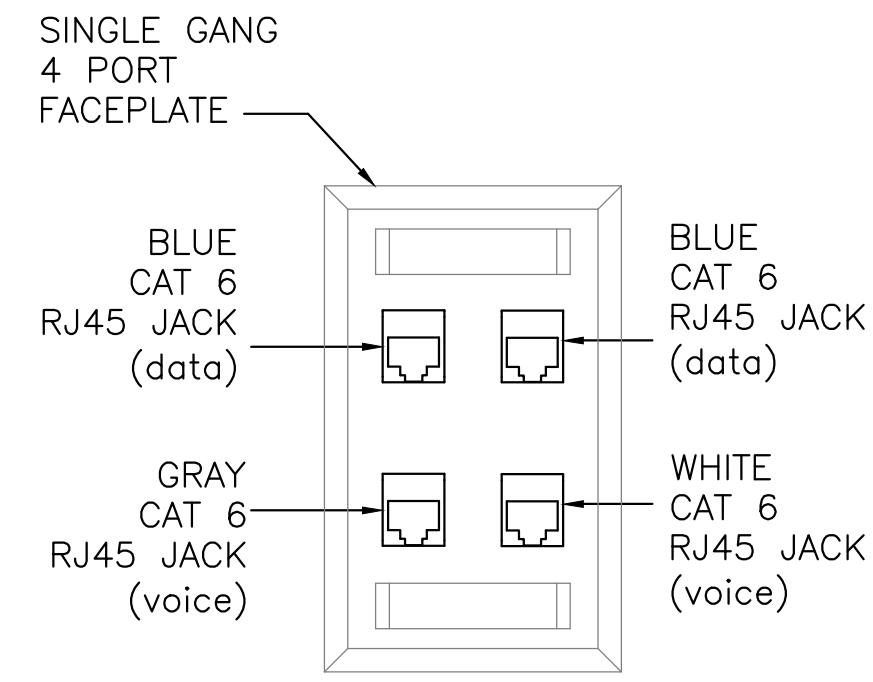


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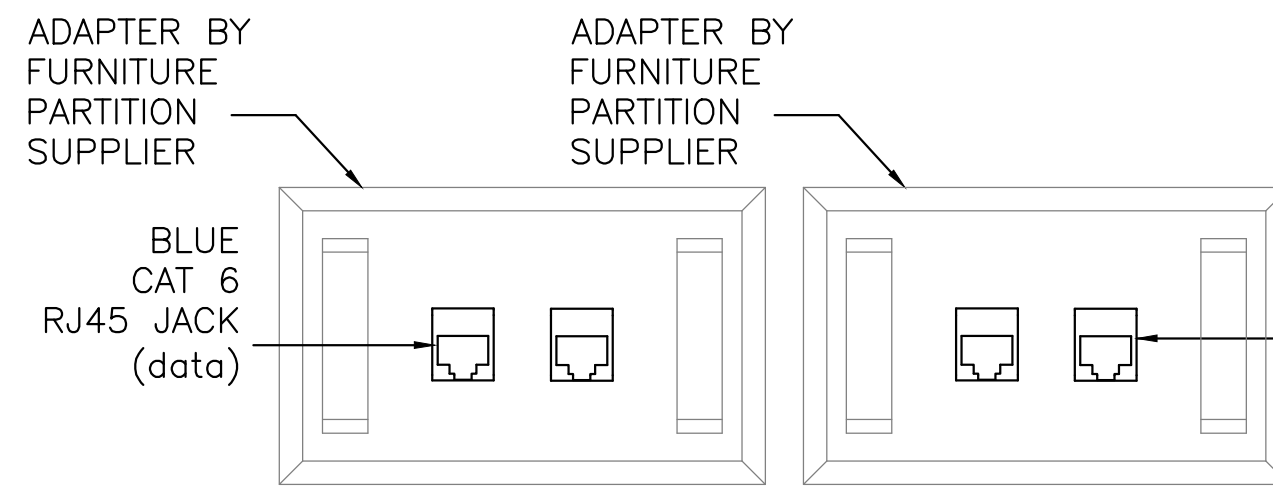
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Faceplate "W"

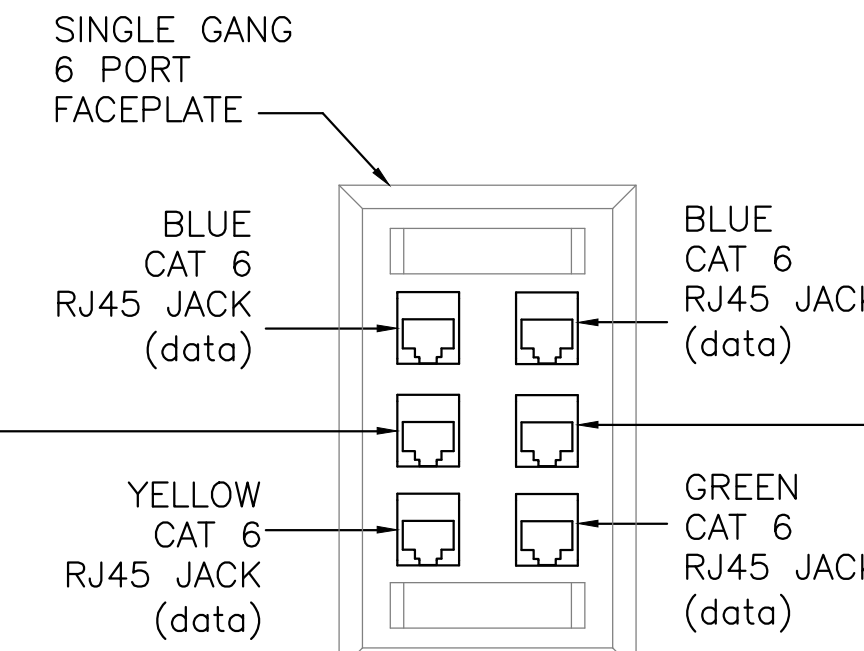


Faceplate "B"

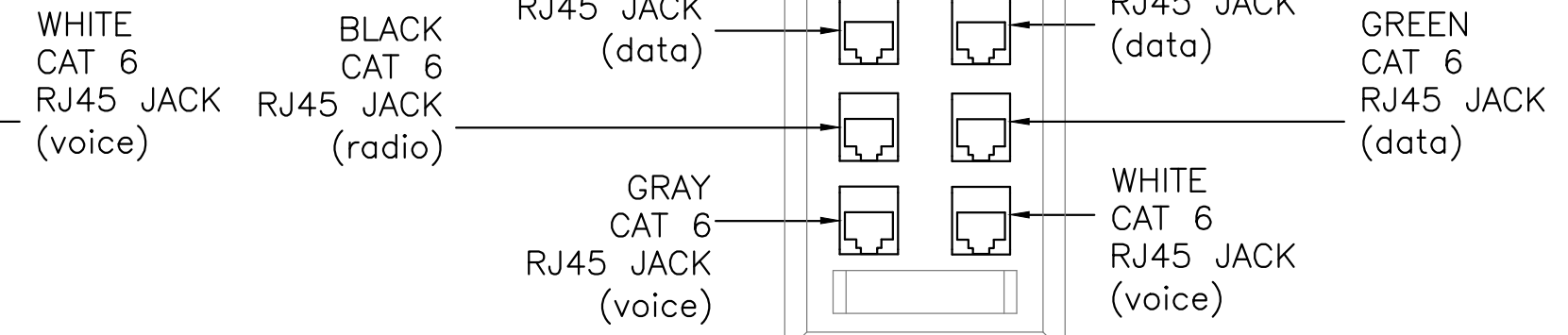


Faceplate "P-VD"

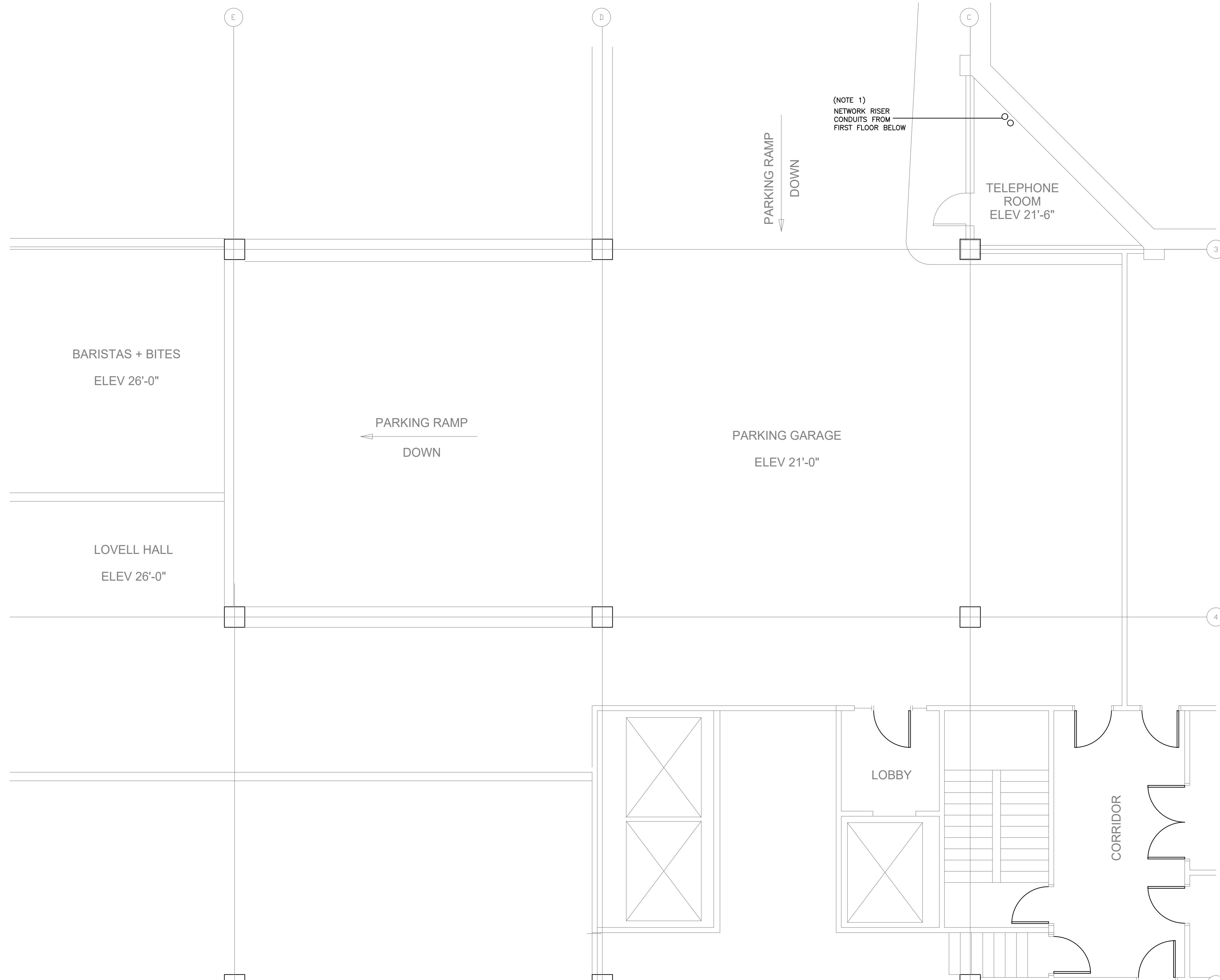
NETWORK OUTLET FACEPLATES



Faceplate "A"



Faceplate "C"



ELECTRICAL PLAN SYMBOLS

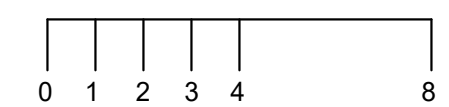
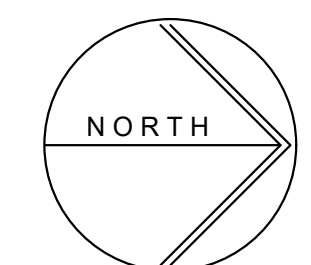
| SYMBOL | DESCRIPTION |
|--------|---|
| | 125V, 20A, DUPLEX GROUNDED RECEPTACLE GFI = Ground Fault Interrupt AC = 6" Above Counter or Sink WP = Weatherproof P = Duplex Receptacle Installed in Furniture Partition |
| | 125V, 20A, QUAD GROUNDED RECEPTACLE P = Quad Receptacle Installed in Furniture Partition |
| | NETWORK OUTLET (see faceplate details) |
| | JUNCTION BOX |
| | LIGHTING CONTROL MOTION DETECTOR Indicates Light Fixture Control |
| | FIRE ALARM AUDIO/VISUAL INDICATOR Indicates Visual Only, No Horn Candela Rating |
| | FIRE ALARM PULL STATION |
| | RECESSED/SURFACE MOUNTED 2X4 LIGHTING FIXTURE Fixture Designation Motion Sensor Control Designation (See Lighting Fixture Schedule for Details) |
| | RECESSED/SURFACE MOUNTED 2X2 LIGHTING FIXTURE Fixture Designation Motion sensor Control Designation (See Lighting Fixture Schedule for Details) |
| | RECESSED/SURFACE MOUNTED CIRCULAR LIGHTING FIXTURE Fixture Designation Motion Sensor Control Designation (See Lighting Fixture Schedule for Details) |
| | WALL MOUNTED EMERGENCY LIGHTING FIXTURE Fixture Designation (See Lighting Fixture Schedule for Details) |
| | WALL MOUNTED EXIT SIGN Fixture Designation (See Lighting Fixture Schedule for Details) Provide Directional Arrows as Indicated on Plans |
| | CEILING MOUNTED EXIT SIGN Fixture Designation (See Lighting Fixture Schedule for Details) Provide Directional Arrows as Indicated on Plans |
| | 0-10 VOLT LIGHTING DIMMER |
| | LIGHT SWITCH |
| | HOMERUN TO PANELBOARD Indicates No. of Wires, Excluding Ground Circuit No. Panelboard Designation |
| | UNFUSED DISCONNECT SWITCH Amperes/Poles |
| | MANUAL MOTOR SWITCH |

E103 NOTES

- WHERE INDICATED, PROVIDE NETWORK WIRING DROPS FOR FURNITURE PARTITIONS. ROUTE THE WIRING FROM THE CEILING ABOVE, AND DROP VERTICALLY CONCEALED WITHIN WALL ENCLOSURE. PROVIDE FACEPLATES WITH OUTLET JACKS WITH 14-FOOT CAT6 PATCH CABLE FOR EACH OUTLET FOR LOCAL EQUIPMENT CONNECTION.

PARTIAL FIRST FLOOR PLAN

1/4" = 1'-0"



2 Portland Square
 Portland, Maine

Office
 Renovations

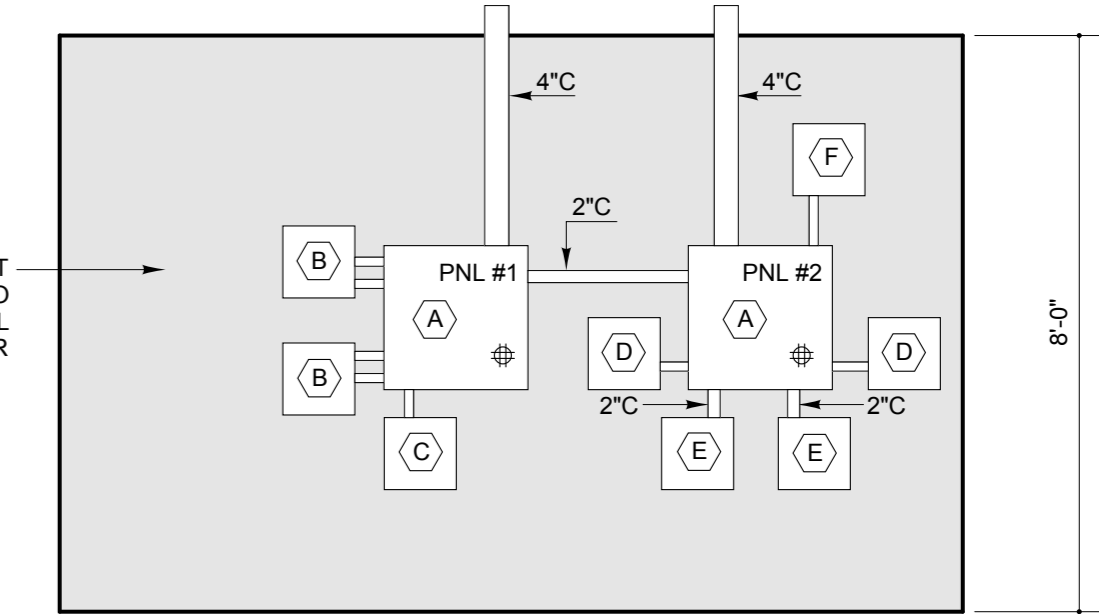
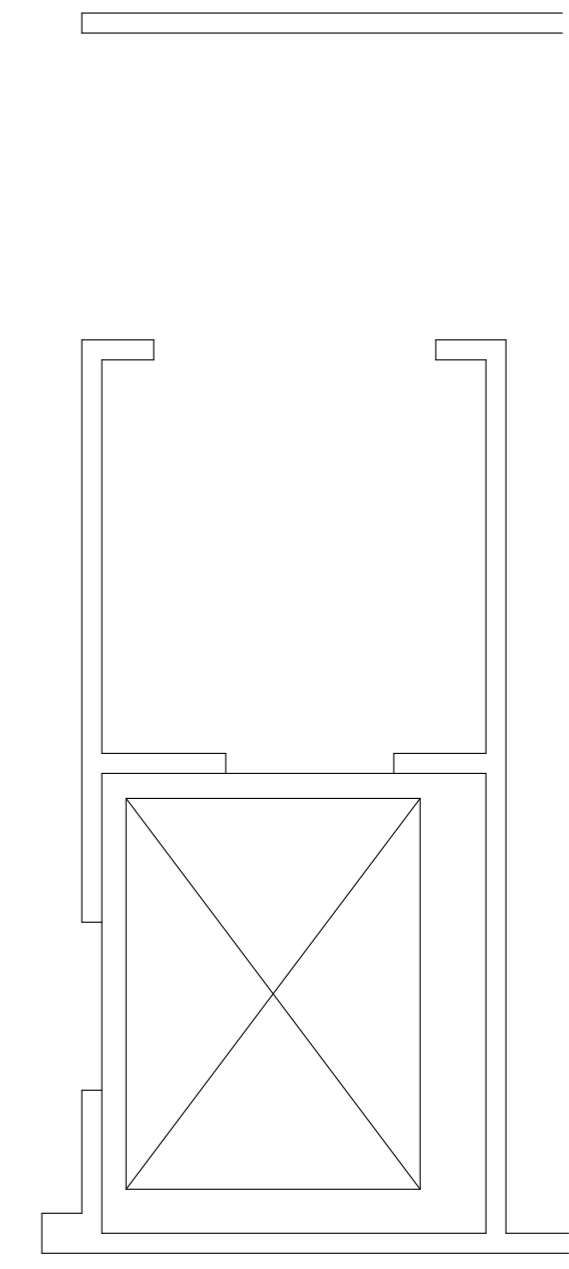
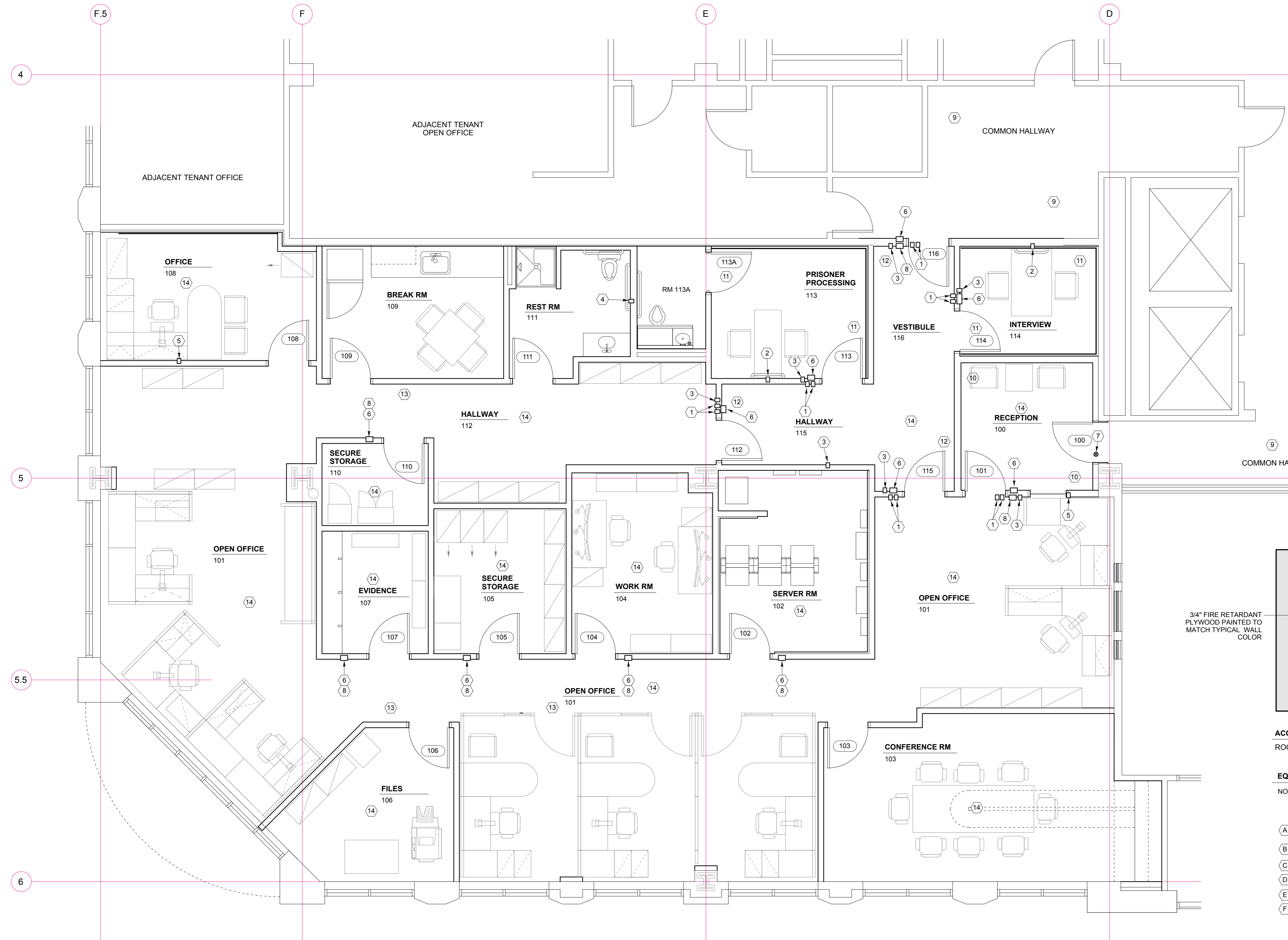
Second Floor

Electrical Details &
 First Floor Plan

Scale: as Noted

E 103

July 26, 2019



ACCESS CONTROL SYSTEM EQUIPMENT ELEVATION
ROOM 102 NORTH WALL

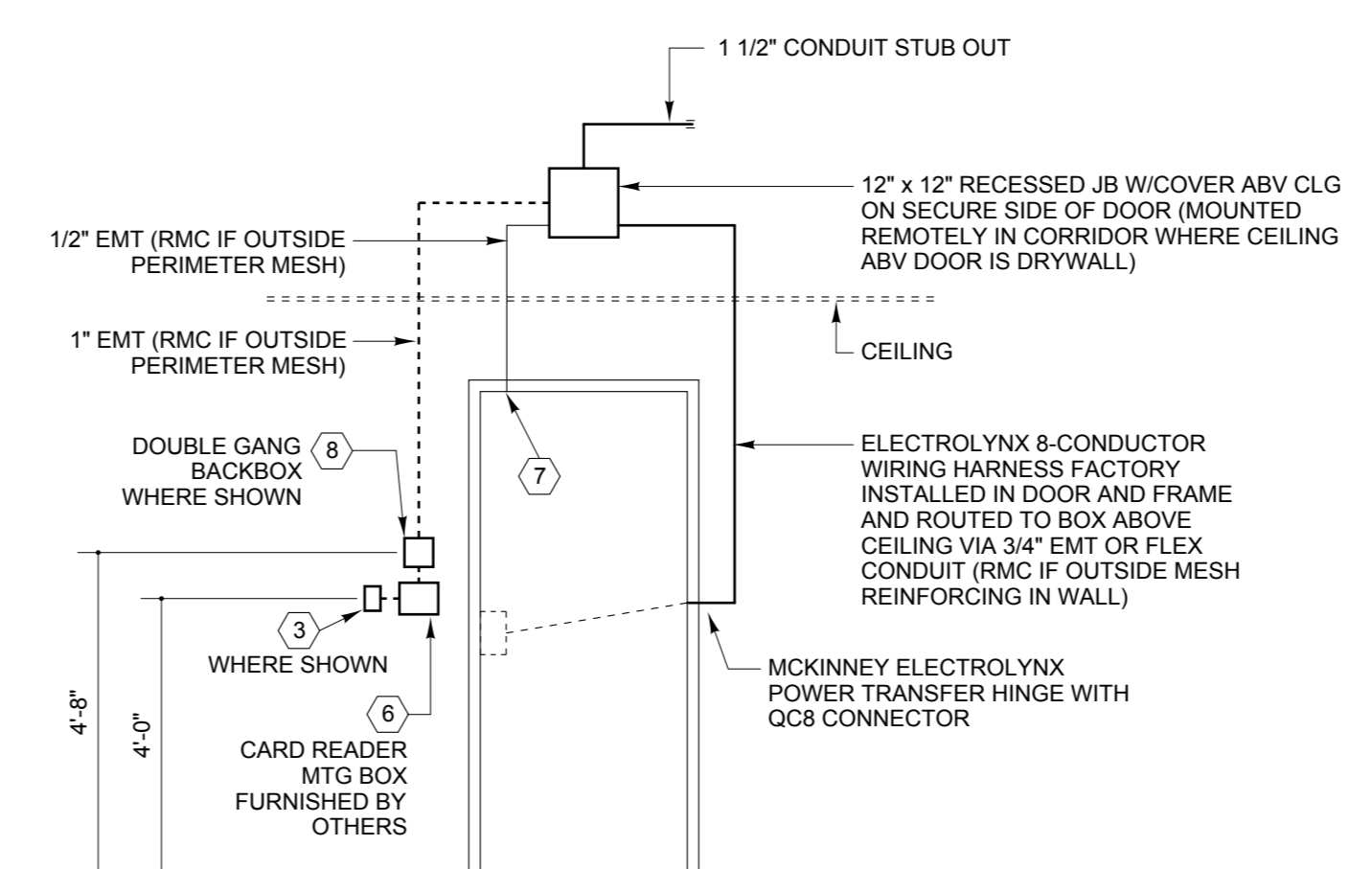
EQUIPMENT LEGEND

- NOTE: • ALL CONDUIT BY ELEC SUBCONTRACTOR
• ALL CONDUIT 1/2" UNLESS NOTED OTHERWISE
• INSTALL ALL PANELS SHOWN
- (A) HOFFMAN A242410LP NEMA TYPE 12 ENCLOSURE WITH EDEICATED LINE 20 AMP 110VAC QUAD OUTLET INSTALLED WITHIN.
 - (B) ALARM PANEL FURNISHED BY OTHERS
 - (C) DETECTOR POWER SUPPLY FURNISHED BY OTHERS
 - (D) LOCK POWER SUPPLY FURNISHED BY OTHERS.
 - (E) ACCESS CONTROL PANEL FURNISHED BY OTHERS.
 - (F) PROVIDE BUILDING FIRE ALARM RELAY/TIE-IN.

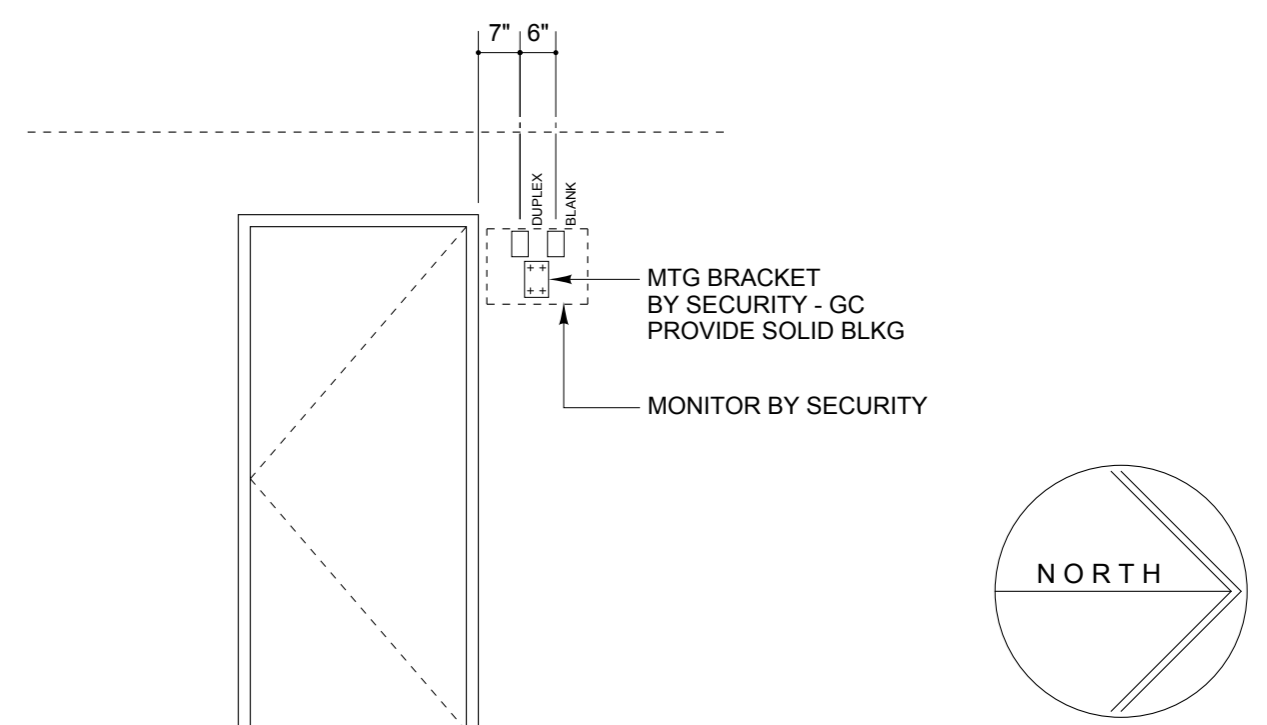
SECURITY SYSTEM LEGEND

- NOTE: • PROVIDE BLANK COVERS FOR ALL BACKBOXES
• PROVIDE PULL CORD FOR ALL CONDUIT RISERS
• FIELD VERIFY EXACT LOCATION OF ALL BOXES WITH OWNER BEFORE INSTALLING
- (1) PROVIDE WALL MOUNTED 110 VAC OUTLET AND EMPTY SINGLE GANG BACKBOX IMMEDIATELY ADJACENT THERETO AT 7'-0" AFF. INSTALL 3/4" EMT STUBBED UP TO 4" ABOVE ACCESSIBLE CEILING. GC SHALL PROVIDE WALL BLOCKING FOR WALL MOUNTED EQUIPMENT.
 - (2) PROVIDE A SINGLE GANG BOX 6" BELOW THE CEILING CENTERED ON THE INDICATED WALL. INSTALL 1" EMT ROUTED TO 12"x12" ACS CROSS-CONNECT BOX ABOVE FINISHED CEILING ON THE OUTSIDE OF THIS ROOM
 - (3) PROVIDE SINGLE GANG BOX AT 48" AFF. INSTALL 1" EMT ROUTED TO 12"x12" ACS CROSS-CONNECT BOX ABOVE FINISHED CEILING
 - (4) PROVIDE SINGLE-GANG BOX 18" AFF. INSTALL 1/2" EMT STUB-UP TO 4" ABOVE ACCESSIBLE CEILING.
 - (5) INSTALL SINGLE GANG BOX AT 12" AFF IN WALL BENEATH DESK. INSTALL 1" EMT STUB-UP TO 4" ABOVE ACCESSIBLE CEILING.
 - (6) INSTALL SECURITY VENDOR PROVIDED ROUGH-IN BOX AT 48" AFF. INSTALL 1" EMT FROM THIS BOX ROUTED TO 12"x12" ACS CROSS-CONNECT BOX ABOVE FINISHED CEILING. PROVIDE ITEMS AS SHOWN ON ACS DOOR ELEVATION.
 - (7) 1" DIAMETER HOLE PREP IN DOOR FRAME BY GC.
 - (8) PROVIDE DOUBLE GANG BOX AT 56" AFF. PROVIDE 1" EMT STUB UP ROUTED TO 12" x 12" ACS CROSS CONNECT BOX ABOVE FINISHED CEILING.

- (9) PROVIDE 4" SQUARE CEILING BOX, AFFIXED TO BUILDING STRUCTURE, IN APPROXIMATE LOCATION SHOWN (CONFIRM WITH OWNER REPRESENTATIVE) AND EXTEND 1" RMC FROM THESE BOXES TO THE CROSS-CONNECT BOXES IN THE ACCESSIBLE CEILING AREA OF SPACE 101 & 116.
- (10) PROVIDE BOSCH "NDA-FMT-DOME" IN-CEILING MOUNT AND BOSCH "VGA-IC-SP" MOUNTING KIT, AFFIXED TO BUILDING STRUCTURE, IN APPROXIMATE LOCATION SHOWN (CONFIRM WITH OWNER REPRESENTATIVE).
- (11) PROVIDE BOSCH "NDA-FMT-DOME" IN-CEILING MOUNT IN APPROXIMATE LOCATIONS SHOWN (CONFIRM WITH OWNER REPRESENTATIVE) AND EXTEND 1" RMC FROM THESE BOXES TO THE CROSS-CONNECT BOXES IN THE ACCESSIBLE CEILING AREA IN THE HALLWAY OUTSIDE OF 113 & 114.
- (12) PROVIDE BOSCH "NDA-FMT-DOME" IN-CEILING MOUNT AND BOSCH "VGA-IC-SP" MOUNTING KIT, IN APPROXIMATE LOCATION SHOWN (CONFIRM WITH OWNER REPRESENTATIVE).
- (13) PROVIDE BOSCH "NDA-FMT-DOME" IN-CEILING MOUNT AND BOSCH "VGA-IC-SP" MOUNTING KIT, IN APPROXIMATE LOCATION SHOWN (CONFIRM WITH TSD REPRESENTATIVE).
- (14) PROVIDE 4" OCTAGONAL CEILING BOX, AFFIXED TO BUILDING STRUCTURE.



ACCESS CONTROL SYSTEM DOOR ELEVATION
ELEVATION (11) THUS



ACCESS CONTROL SYSTEM DOOR ELEVATION
SIX (6) THUS

