

# CAMDEN COUNTY

# RENOVATION & MODERNIZATION

# REGAN BUILDING



**BACH Associates, PC**  
ENGINEERS • ARCHITECTS • PLANNERS

304 White Horse Pike  
Haddon Heights, New Jersey 08035  
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www.BachDesignGroup.com

SEALS:

**DIRK MUI TS III, AIA**  
NJ REGISTERED ARCHITECT No. AI 15840  
PA REGISTERED ARCHITECT No. 402435  
DE REGISTERED ARCHITECT No. 55-0007528  
NY REGISTERED ARCHITECT No. 029608-1  
CT REGISTERED ARCHITECT No. 46110403  
MD REGISTERED ARCHITECT No. 14068  
DC REGISTERED ARCHITECT No. ARC102373

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

PROJECT:

CAMDEN COUNTY  
RENOVATION & MODERNIZATION  
REGAN BUILDING  
508 LAKE LAND ROAD  
BLACKWOOD, NEW JERSEY 08012  
CAMDEN COUNTY, NEW JERSEY

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REVISIONS		
NO.	DESCRIPTION	DATE

DRAWING TITLE:  
**COVER SHEET AND INDEX OF DRAWINGS**

JOB NO: CCIA2020-02	DESIGNED BY: DMS/AAM/RH/DWG
DATE: OCTOBER 19, 2020	DRAWN BY: DMS/AAM/AAM
SCALE: AS NOTED	CHECKED BY: SMB/DMS/AAM

DRAWING NUMBER:

**C-1**

**CONTRACTOR NOTE:**  
CONTRACTOR MUST CONTACT ARCHITECT/ENGINEER PRIOR TO STARTING CONSTRUCTION TO VERIFY THAT THE MOST CURRENT AND ARCHITECT/ENGINEER APPROVED REVISION SET OF PLANS ARE BEING USED. ANY CORRECTIONS AND OR CHANGES TO THE PLAN SET WHICH ARE NECESSARY DUE TO USE OF INVALID PLAN SETS ARE AT THE SOLE EXPENSE OF THE OWNER/CONTRACTOR. ARCHITECT/ENGINEER ASSUMES NO RESPONSIBILITY/LIABILITY FOR ANY WORK PERFORMED BASED ON INVALID PLAN SETS.

**508 LAKE LAND ROAD**  
**BLACKWOOD, NEW JERSEY 08012**  
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**NOTE TO ALL BIDDERS:**  
"BID PACKAGE" IS INCLUSIVE OF ALL DRAWING SHEETS LISTED ON THIS COVER SHEET, ALL SPECIFICATIONS LISTED IN SPECIFICATION TABLE OF CONTENTS, AND ALL ADDENDA ISSUED PRIOR TO BID OPENING. BIDS SUBMITTED ARE ASSUMED TO BE COMPREHENSIVE AND ACCOUNTING FOR INFORMATION CONTAINED THROUGHOUT ENTIRE "BID PACKAGE". IT IS THE RESPONSIBILITY OF BIDDER TO PROVIDE ALL SUBCONTRACTORS, VENDORS, MATERIAL AND LABOR SUPPLIERS, ETC, WITH COMPLETE BID PACKAGE. FAILURE TO DO SO WILL NOT PRECLUDE RESPONSIBILITY TO PROVIDE ALL WORK DESCRIBED IN THE "BID PACKAGE".



Code Review Data:	Index of Drawings:	Notes:		
<p><u>APPLICABLE BUILDING CODES &amp; GUIDELINES</u></p> <p>2018 INTERNATIONAL BUILDING CODE – NEW JERSEY EDITION 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL FUEL GAS CODE 2017 NATIONAL ELECTRIC CODE 2018 NATIONAL STANDARD PLUMBING CODE 2009 ICC/ANSI A117.1</p> <p><u>USE GROUP CLASSIFICATION (304.1)</u></p> <p>R-2</p> <p><u>TYPE OF CONSTRUCTION (CHAPTER 6)</u></p> <p>5B</p> <p><u>HEIGHT AND AREA LIMITATIONS (TABLE 503)</u></p> <p>R2, SM, 3 STORY 55', 21,00 SF- (5B CONSTRUCTION)</p> <p><u>AREA OF FLOOR PLAN:</u></p> <p>R2: BASEMENT GROSS SQUARE FOOTAGE: 4,416 SF (SPRINKLED) R2: 1ST FLOOR GROSS SQUARE FOOTAGE: 4,714 SF (SPRINKLED) R2: 2ND FLOOR GROSS SQUARE FOOTAGE: 4,714 SF (SPRINKLED)</p>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%; vertical-align: top;"> <p><b>C-1 COVER SHEET AND INDEX OF DRAWINGS</b></p> <p><b>C-2 ADA GUIDELINES</b></p> <p><b>D-1 BASEMENT FLOOR DEMOLITION PLAN</b></p> <p><b>D-2 FIRST FLOOR DEMOLITION PLAN</b></p> <p><b>D-3 SECOND FLOOR DEMOLITION PLAN</b></p> <p><b>A-1 BASEMENT AND FIRST FLOOR PLANS</b></p> <p><b>A-2 SECOND FLOOR PLAN AND DETAILS</b></p> <p><b>A-2A REFLECTED CEILING PLANS</b></p> <p><b>A-3 BUILDING SECTION</b></p> <p><b>A-4 TOILET ROOM FLOOR PLANS AND ELEVATIONS</b></p> <p><b>A-5 TOILET ROOM FLOOR PLANS AND ELEVATIONS</b></p> <p><b>A-6 TOILET ROOM FLOOR PLANS AND ELEVATIONS</b></p> <p><b>A-7 TOILET ROOM FLOOR PLANS AND ELEVATIONS</b></p> <p><b>A-8 TOILET ROOM FLOOR PLANS AND ELEVATIONS</b></p> <p><b>A-9 COUNTER DETAILS</b></p> <p><b>A-10 DOOR SCHEDULE AND DETAILS</b></p> <p><b>A-11 ROOM SCHEDULE AND DETAILS</b></p> <p><b>A-12 BASEMENT DIMENSIONS PLAN</b></p> <p><b>A-13 FIRST FLOOR DIMENSIONS PLAN</b></p> <p><b>A-14 SECOND FLOOR DIMENSIONS PLAN</b></p> <p><b>S1.1 GENERAL NOTES AND DETAILS</b></p> <p><b>S2.1 FOUNDATION AND FIRST FLOOR FRAMING PLANS</b></p> <p><b>S2.2 FLOOR AND ROOF FRAMING PLANS</b></p> </td> <td style="width: 33%; 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IT IS THE RESPONSIBILITY OF THE OWNER / CONTRACTOR TO VERIFY THAT ALL DESIGN ISSUES AND REQUIREMENTS HAVE BEEN MET AND ALL PARTIES INVOLVED HAVE REVIEWED THE PLANS AND EXISTING SITE CONDITIONS FULLY. ANY QUESTIONS OR DISCREPANCIES REGARDING THE PLANS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE CONSTRUCTION BEGINS. FAILURE TO NOTIFY THE ARCHITECT OF DISCREPANCIES AND/OR UNSATISFACTORY CONDITIONS WILL BE CONSTRUED AS ACCEPTANCE OF THE CONDITIONS TO PROPERLY PERFORM ALL REQUIRED WORK.</p> <p>THESE DRAWINGS INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF ARCHITECTURE, DESIGN CONCEPT OF THE BUILDING AND ANY MAJOR ARCHITECTURAL ELEMENTS OR MAJOR TYPES OF MEP, FIRE PROTECT AND STRUCTURAL ELEMENTS. THESE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK FOR FULL PERFORMANCE AND COMPLETION OF THE SCOPE INDICATED, DESCRIBED, OR IMPLIED. THE GENERAL CONTRACTOR SHALL FURNISH ALL ITEMS REQUIRED FOR THE PROPER EXECUTION AND TIMELY COMPLETION OF THIS PROJECT.</p> <p>THE GENERAL CONTRACTOR SHALL DISTRIBUTE FULL SETS OF CONSTRUCTION DOCUMENTS TO ALL SUB-CONTRACTORS. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO DIVIDE AND COORDINATE WORK OF ALL TRADES.</p> <p>ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND NATIONAL STANDARDS.</p> <p><b>NOTE:</b> SOME NOTES AND DETAILS WITHIN THIS PLAN SET MAY NOT APPLY, BUT STILL SHOULD BE REVIEWED IN ITS ENTIRETY.</p>
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BARRIER FREE GUIDELINES FOR CONSTRUCTION – ICC/ANSI A117.1 – 2009

**A WHEELCHAIR TURNING SPACE**

**B MINIMUM CLEAR FLOOR SPACE FOR WHEELCHAIRS**

**C CLEAR DOORWAY WIDTH AND DEPTH**

**D MANEUVERING CLEARANCE AT DOORS**

**E KNEE CLEARANCE**

**F REDUCED VERTICAL CLEARANCE**

**G OBSTRUCTED HIGH SIDE REACH**

**H TOE CLEARANCE**

**I RAMP AND RAILINGS**

**J UNOBSTRUCTED FORWARD REACH**

**K MISCELLANEOUS**

**L SHOWER STALL**

**M MISCELLANEOUS**

**N URINALS**

**O OBSTRUCTED HIGH FORWARD REACH**

**P UNOBSTRUCTED SIDE REACH**

**Q DRINKING FOUNTAINS AND WATER COOLERS**

**R LAVATORY**

**S WATER CLOSET**

**T DISPENSER LOCATIONS**

**U GRAB BARS**

**V SIGNAGE**

HEIGHT ABOVE FLOOR TO BASELINE OF CHARACTER	HORIZONTAL VIEWING DISTANCE	MINIMUM CHARACTER HEIGHT
40 INCHES TO <math>\leq 70</math> INCHES	<math>< 6</math> FEET	5/8 INCH
>70 INCHES TO <math>\leq 120</math> INCHES	6 FEET AND GREATER	5/8 INCH, PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 6 FEET
	<math>< 15</math> FEET	2 INCHES
GREATER THAN 120 INCHES	15 FEET AND GREATER	2 INCHES, PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 15 FEET.
	<math>< 21</math> FEET	3 INCHES
	21 FEET AND GREATER	3 INCHES, PLUS 1/8 INCH PER FOOT OF VIEWING DISTANCE ABOVE 21 FEET.

UPPERCASE LETTER "T" TO BE USED TO DETERMINE HEIGHT OF CHARACTER OF ANY FONT. CHARACTERS TO BE 40 INCHES MINIMUM ABOVE FLOOR, MEASURED TO BASELINE OF CHARACTER.



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REVISIONS		
NO.	DESCRIPTION	DATE

DRAWING TITLE:

**ADA GUIDELINES**

JOB NO: CGA2020-02	DESIGNED BY: DMS/AAM/RH/BMG
DATE: OCTOBER 19, 2020	DRAWN BY: DMS/AAM/AAM
SCALE: AS NOTED	CHECKED BY: SMB/DMS/AAM

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NO.	DESCRIPTION	DATE

DRAWING TITLE:

**BASEMENT FLOOR  
DEMOLITION  
PLAN**

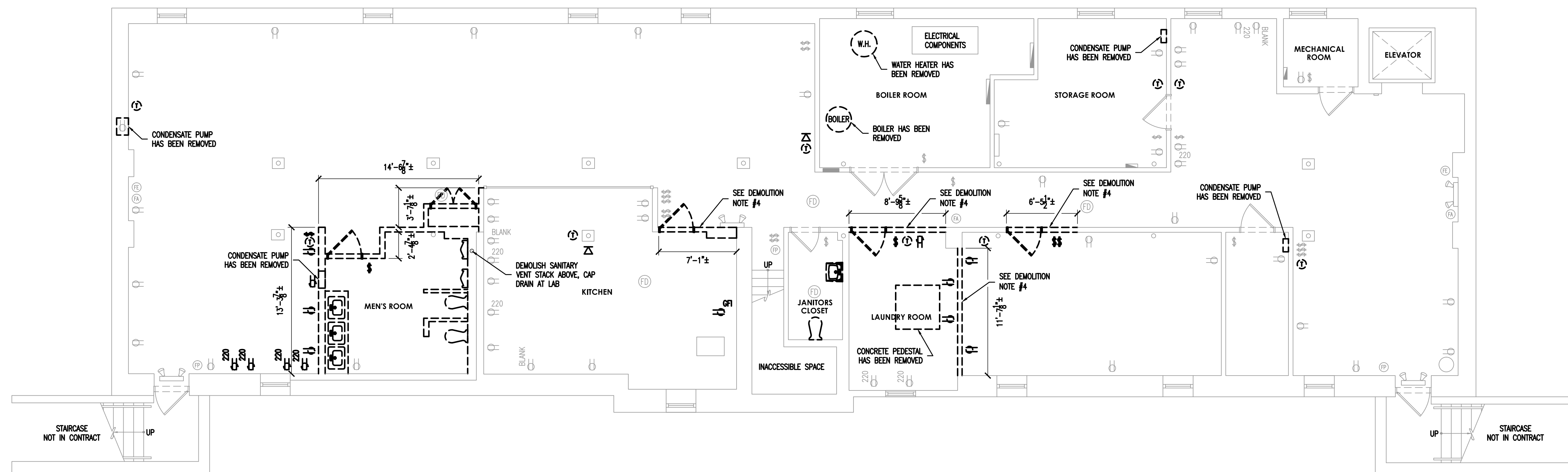
JOB NO: CCIA2020-02	DESIGNED BY: DMS/AAM/RH/DMG
DATE: OCTOBER 19, 2020	DRAWN BY: DMS/AAM/AM
SCALE: AS NOTED	CHECKED BY: SMB/DMS/AAM

DRAWING NUMBER:

**D-1**

**DEMOLITION NOTES:**

1. ALL PLUMBING FIXTURES HAVE BEEN REMOVED (SHOWN FOR INFORMATION ONLY)
2. ALL DOORS AND FRAMES HAVE BEEN REMOVED (SHOWN FOR INFORMATION ONLY)
3. ALL WALLS LABELED FOR DEMOLITION HAVE BEEN REMOVED UNLESS OTHERWISE NOTED (SHOWN FOR INFORMATION ONLY)
4. CONTRACTOR TO DEMOLISH WALL(S)



**1 BASEMENT FLOOR DEMOLITION PLAN**  
SCALE: 3/16" = 1'-0"

**CAUTION:**  
CONTRACTOR TO TEMPORARILY BRACE ALL EXISTING STRUCTURAL MEMBERS INCLUDING FOUNDATIONS, COLUMNS, BEAMS, JOISTS, WALLS, FLOORS AND CEILINGS, ETC. AS NECESSARY PRIOR TO DEMOLITION & CONSTRUCTION!



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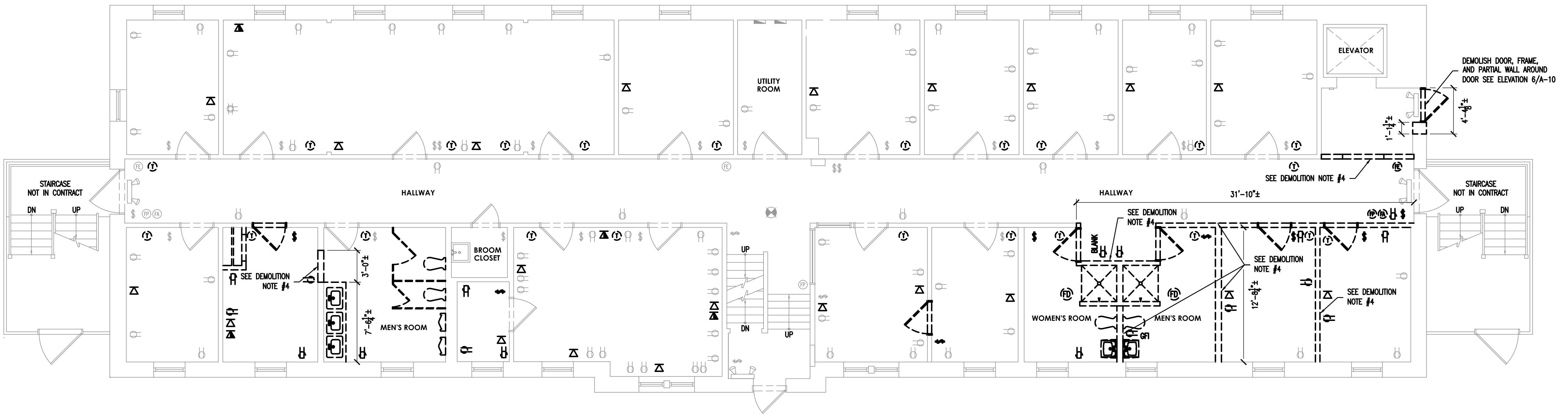
**FIRST FLOOR  
DEMOLITION  
PLAN**

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**D-2**

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  2. ALL DOORS AND FRAMES HAVE BEEN REMOVED (SHOWN FOR INFORMATION ONLY)
  3. ALL WALLS LABELED FOR DEMOLITION HAVE BEEN REMOVED UNLESS OTHER WISE NOTED (SHOWN FOR INFORMATION ONLY)
  4. CONTRACTOR TO DEMOLISH WALL(S)



**1 FIRST FLOOR DEMOLITION PLAN**  
SCALE: 3/16" = 1'-0"

**CAUTION:**  
CONTRACTOR TO TEMPORARILY BRACE ALL EXISTING STRUCTURAL MEMBERS INCLUDING FOUNDATIONS, COLUMNS, BEAMS, JOISTS, WALLS, FLOORS AND CEILINGS, ETC. AS NECESSARY PRIOR TO DEMOLITION & CONSTRUCTION!





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SEALS:

**DIRK MUI TS III, AIA**

NJ REGISTERED ARCHITECT No. AI 15840  
PA REGISTERED ARCHITECT No. 402435  
DE REGISTERED ARCHITECT No. S5-0007528  
NY REGISTERED ARCHITECT No. 029608-1  
CT REGISTERED ARCHITECT No. 46110403  
MD REGISTERED ARCHITECT No. 14068  
DC REGISTERED ARCHITECT No. ARC102373

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PROJECT:

**CAMDEN COUNTY  
RENOVATION & MODERNIZATION  
REGAN BUILDING**  
508 LAKELAND ROAD  
BLACKWOOD, NEW JERSEY 08012  
CAMDEN COUNTY, NEW JERSEY

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REVISIONS

NO.	DESCRIPTION	DATE

DRAWING TITLE:

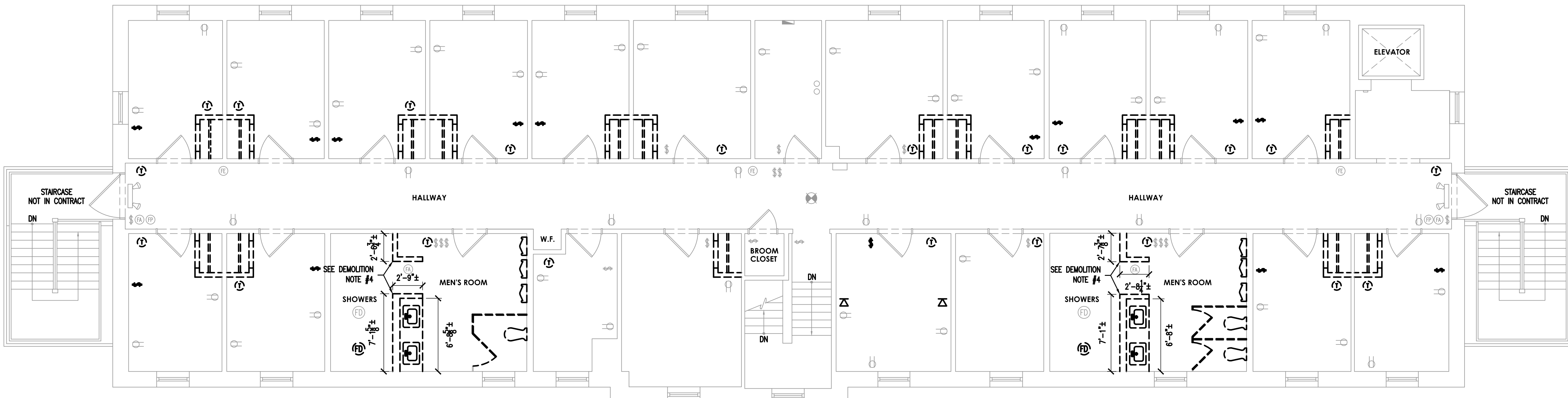
**SECOND FLOOR  
DEMOLITION  
PLAN**

JOB NO: CCIA2020-02	DESIGNED BY: DMS/AAM/RH/DWG
DATE: OCTOBER 19, 2020	DRAWN BY: DMS/AAM/AM
SCALE: AS NOTED	CHECKED BY: SMB/DMS/AAM

DRAWING NUMBER:

**D-3**

- DEMOLITION NOTES:**
1. ALL PLUMBING FIXTURES HAVE BEEN REMOVED (SHOWN FOR INFORMATION ONLY)
  2. ALL DOORS AND FRAMES HAVE BEEN REMOVED (SHOWN FOR INFORMATION ONLY)
  3. ALL WALLS LABELED FOR DEMOLITION HAVE BEEN REMOVED UNLESS OTHERWISE NOTED (SHOWN FOR INFORMATION ONLY)
  4. CONTRACTOR TO DEMOLISH WALL(S)



**1 SECOND FLOOR DEMOLITION PLAN**  
SCALE: 3/16" = 1'-0"

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PA REGISTERED ARCHITECT No. 402435  
DE REGISTERED ARCHITECT No. SS-0007528  
NY REGISTERED ARCHITECT No. 029608-1  
CT REGISTERED ARCHITECT No. AR110403  
MD REGISTERED ARCHITECT No. 14068  
DC REGISTERED ARCHITECT No. ARC102373

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PROJECT:

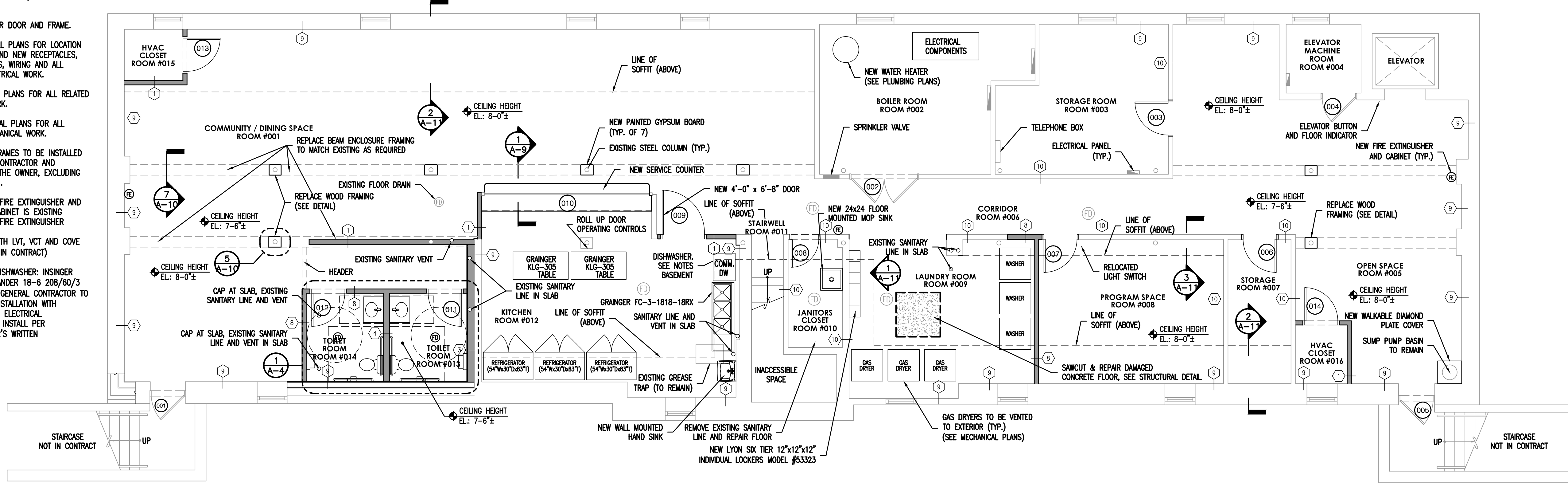
**CAMDEN COUNTY  
RENOVATION & MODERNIZATION  
REGAN BUILDING**  
508 LAKELAND ROAD  
BLACKWOOD, NEW JERSEY 08012  
CAMDEN COUNTY, NEW JERSEY

**SYMBOL LEGEND:**

- PARTITION TO BE DEMOLISHED
- NEW INTERIOR PARTITION
- EXISTING PARTITION
- NEW DOOR AND FRAME
- EXISTING DOOR AND FRAME
- (E) EXISTING FIRE EXTINGUISHER
- (FD) EXISTING FLOOR DRAIN
- (FD) NEW FLOOR DRAIN
- (X) SECTION TAG
- (X) ELEVATION TAG
- (X) PARTITION TYPE
- (XX) DOOR IDENTIFICATION

**NOTES BASEMENT:**

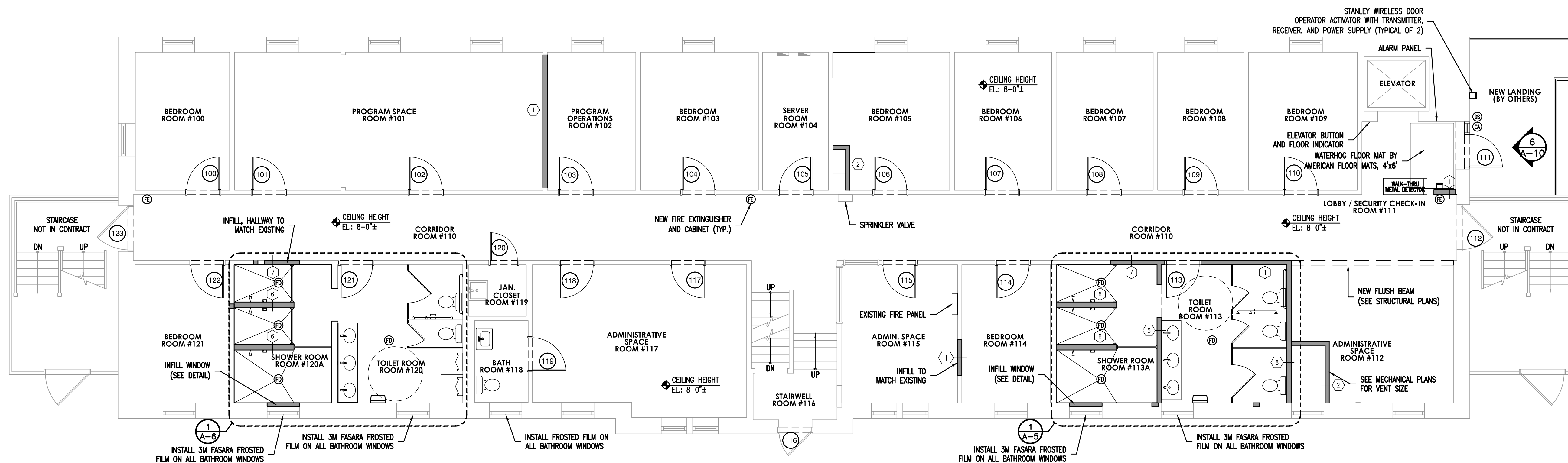
CEILING BETWEEN THE COLUMN LINES (DOWN THE MIDDLE) AT 7'-8", SEE CEILING FRAMING DETAIL.  
PAINT ALL WALLS, CEILINGS, DOORS, DOOR FRAMES.  
ALL FLOORING AND COVE BASE (NOT INCLUDING BATHROOMS) IS NOT IN CONTRACT.  
PAINT ELEVATOR DOOR AND FRAME.  
SEE ELECTRICAL PLANS FOR LOCATION OF EXISTING AND NEW RECEPTACLES, LIGHT FIXTURES, WIRING AND ALL RELATED ELECTRICAL WORK.  
SEE PLUMBING PLANS FOR ALL RELATED PLUMBING WORK.  
SEE MECHANICAL PLANS FOR ALL RELATED MECHANICAL WORK.  
DOORS AND FRAMES TO BE INSTALLED BY GENERAL CONTRACTOR AND PROVIDED BY THE OWNER, EXCLUDING DOOR NO. 111.  
PROVIDE NEW FIRE EXTINGUISHER AND CABINET, IF CABINET IS EXISTING PROVIDE NEW FIRE EXTINGUISHER  
ALL ROOMS WITH LVT, VCT AND COVE BASE - (NOT IN CONTRACT)  
COMMERCIAL DISHWASHER: INSINGER MODEL: COMMANDER 18-6 208/60/3 W/ BOOSTER. GENERAL CONTRACTOR TO COORDINATE INSTALLATION WITH PLUMBING AND ELECTRICAL CONTRACTORS. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.



**1 BASEMENT FLOOR PLAN**  
SCALE: 3/16" = 1'-0"

**NOTES FIRST FLOOR:**

ALL CEILINGS AT 8'-0", SEE CEILING FRAMING DETAIL.  
PAINT ALL WALLS, CEILINGS, DOORS, DOOR FRAMES.  
ALL FLOORING AND COVE BASE (NOT INCLUDING BATHROOMS) IS NOT IN CONTRACT.  
PAINT ELEVATOR DOOR AND FRAME.  
SEE ELECTRICAL PLANS FOR LOCATION OF EXISTING AND NEW RECEPTACLES, LIGHT FIXTURES, WIRING AND ALL RELATED ELECTRICAL WORK.  
SEE PLUMBING PLANS FOR ALL RELATED PLUMBING WORK.  
SEE MECHANICAL PLANS FOR ALL RELATED MECHANICAL WORK.  
DOORS AND FRAMES TO BE INSTALLED BY GENERAL CONTRACTOR AND PROVIDED BY THE OWNER, EXCLUDING DOOR NO. 111.  
PROVIDE NEW FIRE EXTINGUISHER AND CABINET, IF CABINET IS EXISTING PROVIDE NEW FIRE EXTINGUISHER.  
ALL ROOMS WITH LVT, VCT AND COVE BASE - (NOT IN CONTRACT)



**2 FIRST FLOOR PLAN**  
SCALE: 3/16" = 1'-0"

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**BASEMENT AND FIRST FLOOR PLANS**

JOB NO: COA2020-02	DESIGNED BY: DMS/AHW/RH/DWG
DATE: OCTOBER 19, 2020	DRAWN BY: DMS/AHW/AW
SCALE: AS NOTED	CHECKED BY: SMB/DMS/AHW
DRAWING NUMBER:	

**A-1**

**NOTES SECOND FLOOR:**

PAINT ALL WALLS, CEILINGS, DOORS, DOOR FRAMES.

ALL FLOORING AND COVE BASE (NOT INCLUDING BATHROOMS) IS NOT IN CONTRACT.

PAINT ELEVATOR DOOR AND FRAME.

SEE ELECTRICAL PLANS FOR LOCATION OF EXISTING AND NEW RECEPTACLES, LIGHT FIXTURES, WIRING AND ALL RELATED ELECTRICAL WORK.

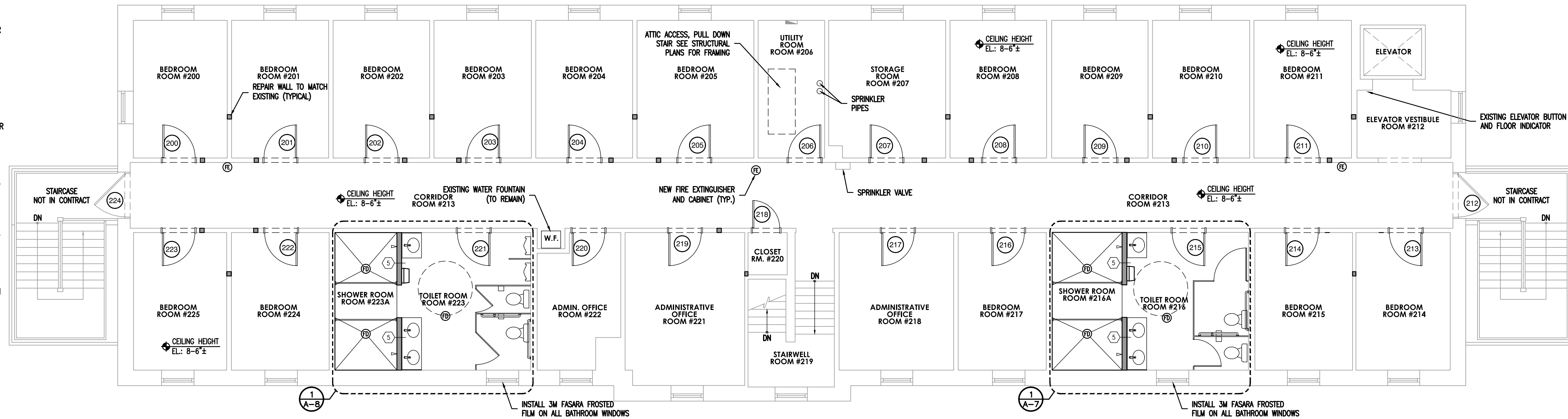
SEE PLUMBING PLANS FOR ALL RELATED PLUMBING WORK.

SEE MECHANICAL PLANS FOR ALL RELATED MECHANICAL WORK.

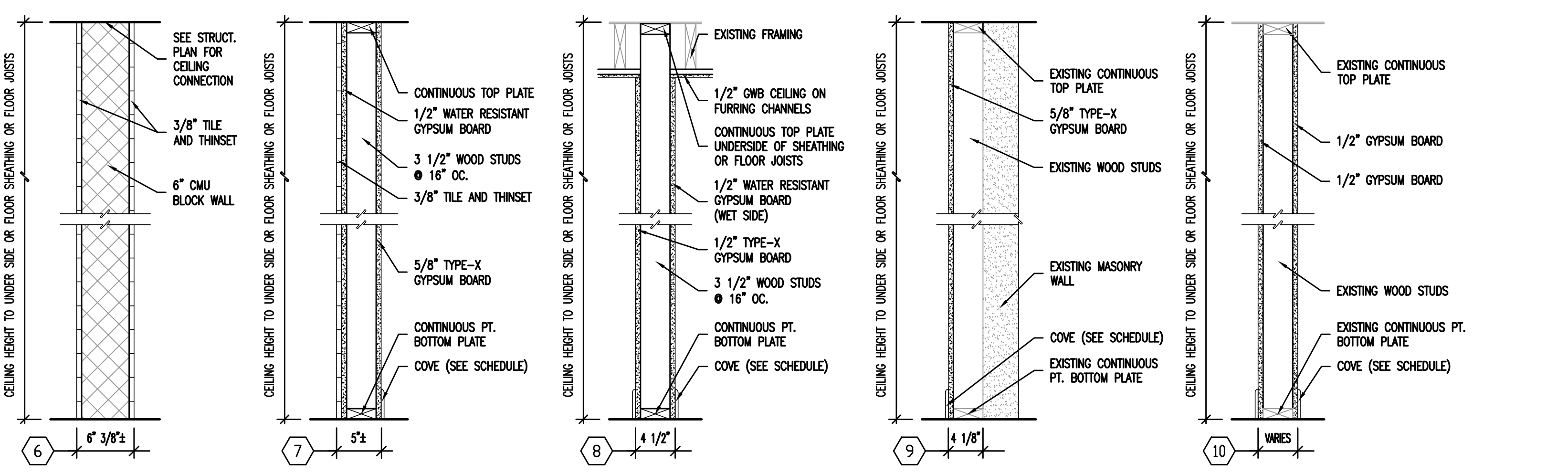
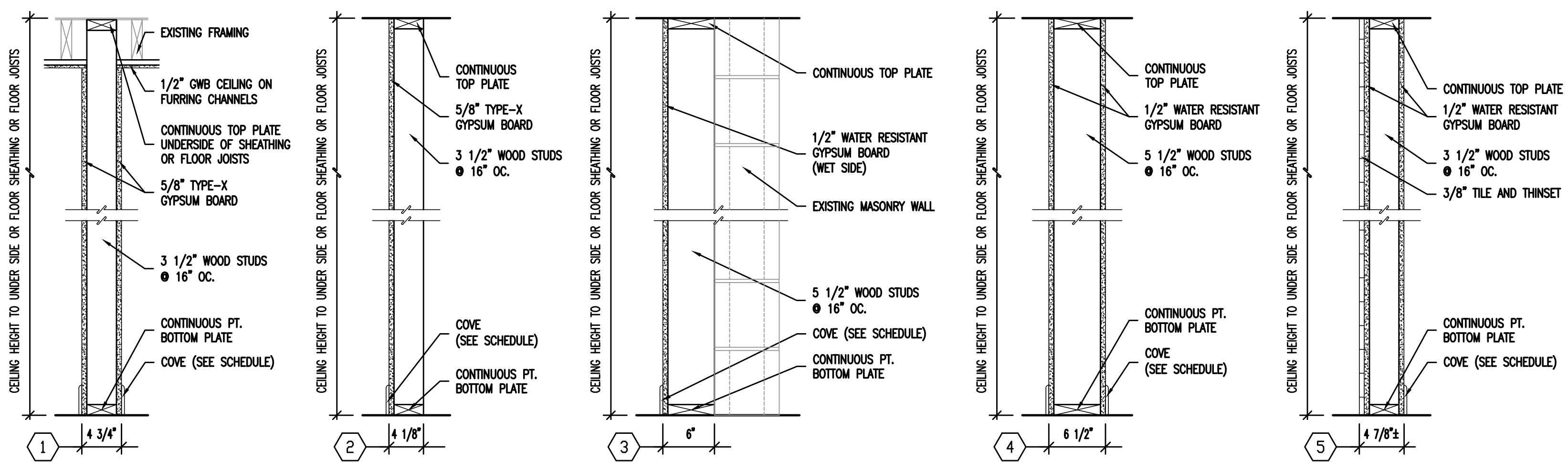
DOORS AND FRAMES TO BE INSTALLED BY GENERAL CONTRACTOR AND PROVIDED BY THE OWNER, EXCLUDING DOOR NO. 111.

PROVIDE NEW FIRE EXTINGUISHER AND CABINET, IF CABINET IS EXISTING PROVIDE NEW FIRE EXTINGUISHER

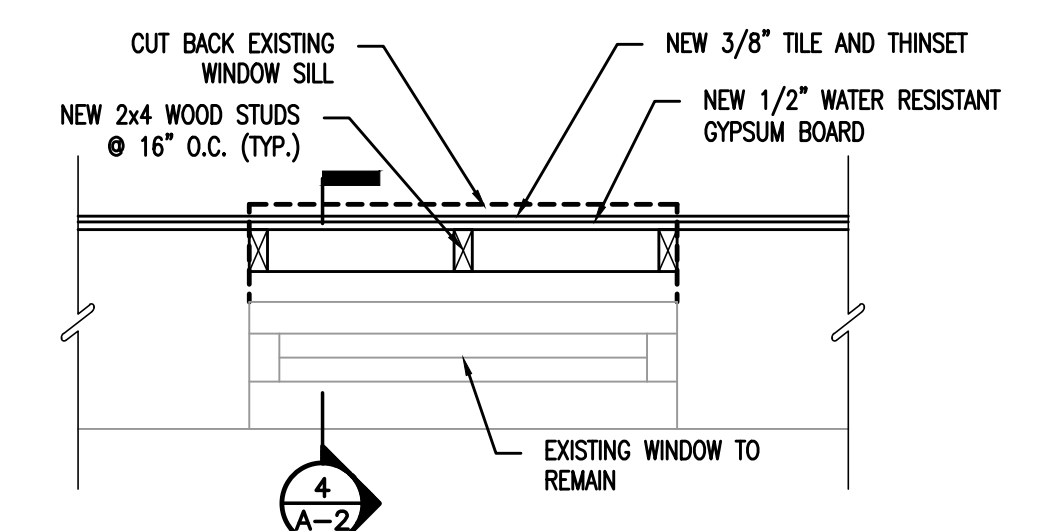
ALL ROOMS WITH LVT, VCT AND COVE BASE - (NOT IN CONTRACT)



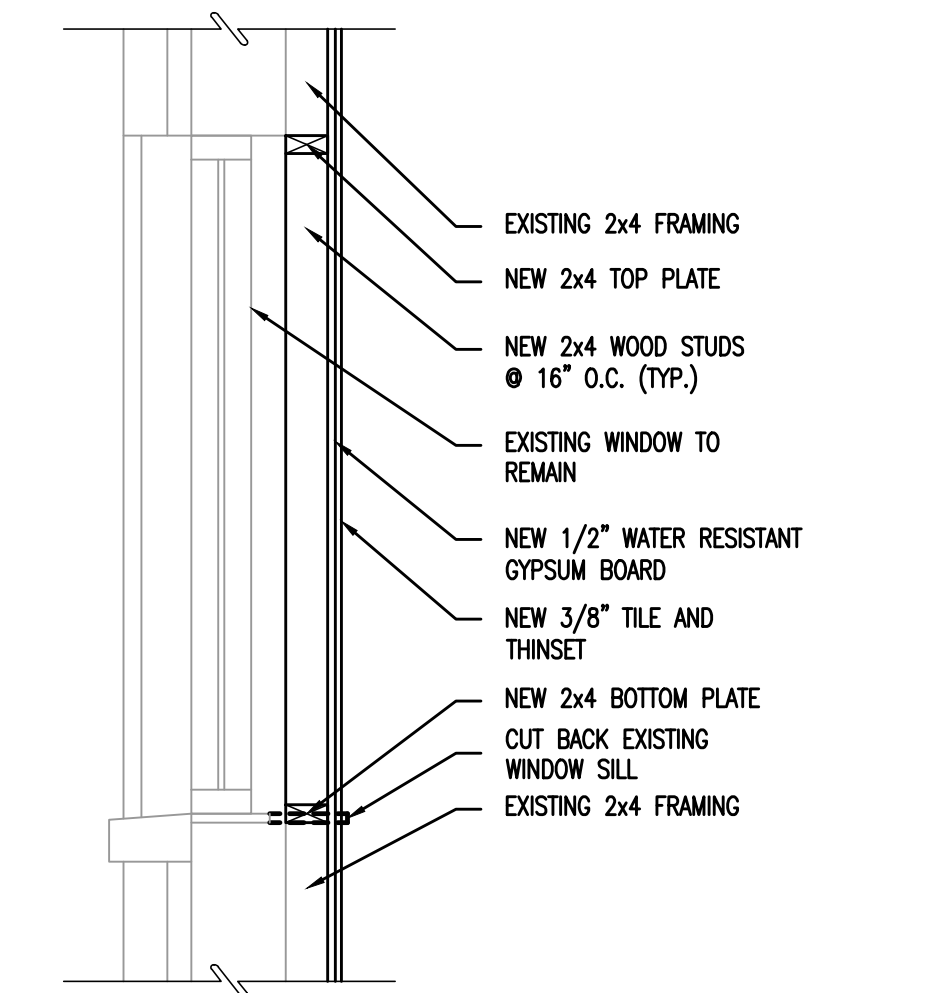
**1 SECOND FLOOR PLAN**  
SCALE: 3/16" = 1'-0"



**2 PARTITION TYPES**  
SCALE: NOT TO SCALE  
NOTE: USE WONDER BOARD AT ALL WET LOCATIONS



**3 DETAIL - WINDOW INFILL**  
SCALE: NOT TO SCALE



**DETAIL - WINDOW INFILL**  
SCALE: NOT TO SCALE

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SEALS:

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PA REGISTERED ARCHITECT No. 402435  
DE REGISTERED ARCHITECT No. S5-0007528  
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DC REGISTERED ARCHITECT No. ARC102373

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PROJECT:

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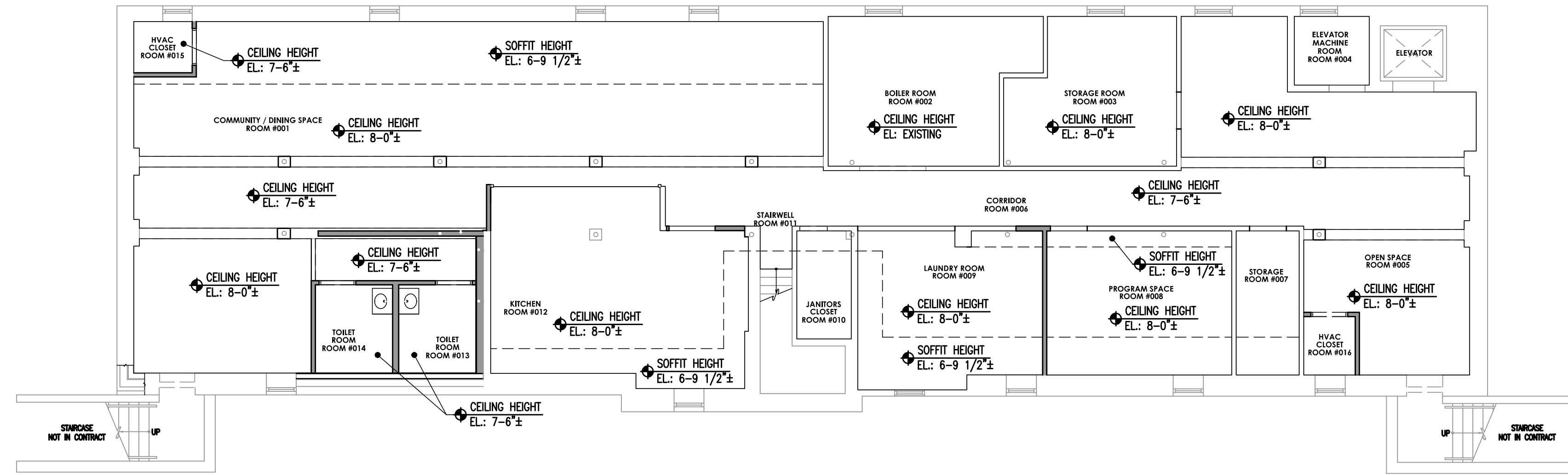
REVISIONS		
NO.	DESCRIPTION	DATE

**SECOND FLOOR PLAN AND DETAILS**

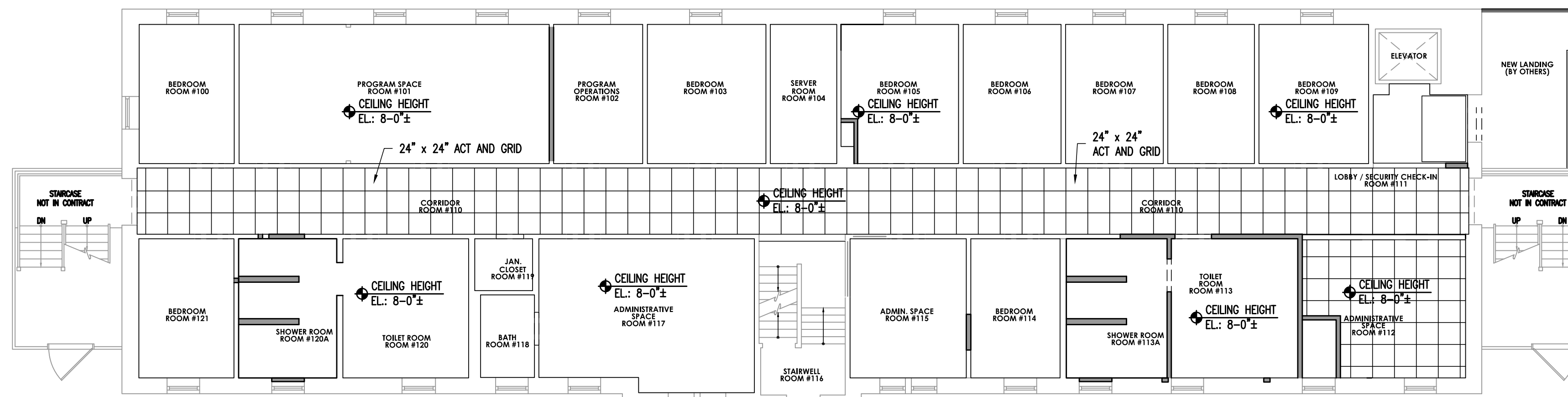
JOB NO: CC02020-02	DESIGNED BY: DMS/AHW/RH/DWG
DATE: OCTOBER 19, 2020	DRAWN BY: DMS/AHW/AW
SCALE: AS NOTED	CHECKED BY: SMB/DMS/AHW
DRAWING NUMBER:	



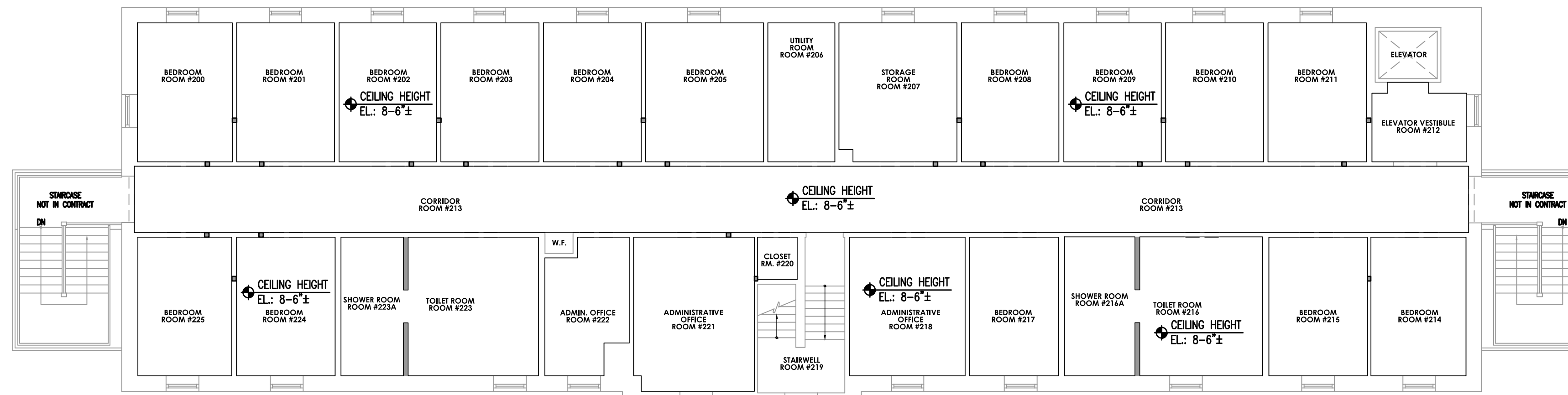
NOTES BASEMENT AND FIRST FLOOR:  
 ALL NEW GYPSUM CEILINGS.  
 PAINT ALL WALLS, CEILINGS,  
 DOORS, DOOR FRAMES.  
 SECOND FLOOR: EXISTING  
 GYPSUM CEILINGS.



**1 BASEMENT REFLECTED CEILING PLAN**  
 SCALE: 1/8" = 1'-0"



**2 FIRST FLOOR REFLECTED CEILING PLAN**  
 SCALE: 1/8" = 1'-0"



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



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 DE REGISTERED ARCHITECT No. S5-0007528  
 NY REGISTERED ARCHITECT No. 029608-1  
 CT REGISTERED ARCHITECT No. ARL10403  
 MD REGISTERED ARCHITECT No. 14068  
 DC REGISTERED ARCHITECT No. ARC102373

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PROJECT:

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REVISIONS		
NO.	DESCRIPTION	DATE

DRAWING TITLE:  
**REFLECTED CEILING PLANS**

JOB NO: C0A2020-02	DESIGNED BY: DMS/AHW/PH/DWG
DATE: OCTOBER 19, 2020	DRAWN BY: DMS/AHW/AW
SCALE: AS NOTED	CHECKED BY: SMB/DMS/AHW
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NY REGISTERED ARCHITECT No. 029608-1  
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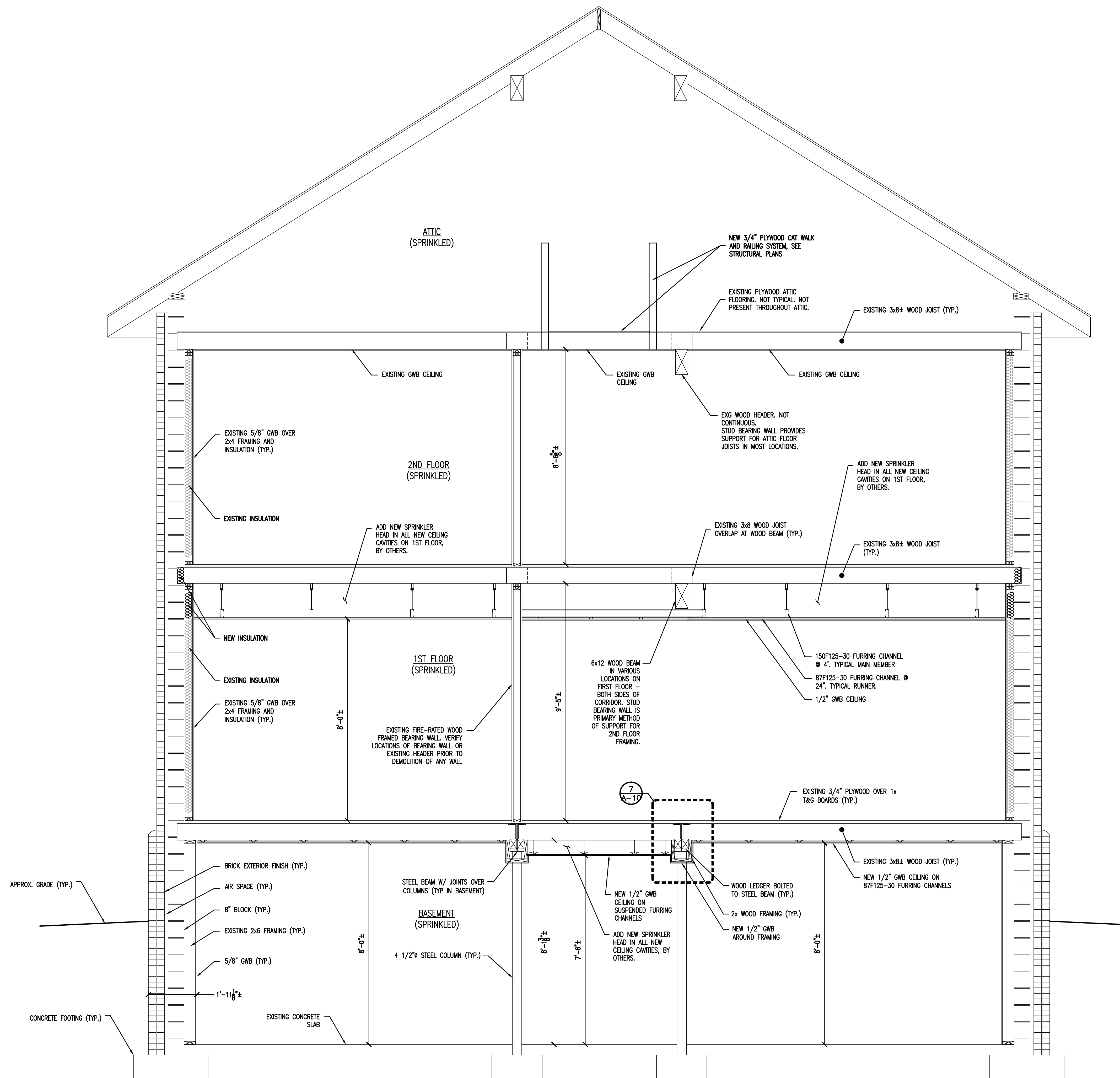
NO.	DESCRIPTION	DATE

DRAWING TITLE:

**BUILDING  
SECTION**

JOB NO: C04A2020-02	DESIGNED BY: DMS/AHW/RH/DWG
DATE: OCTOBER 19, 2020	DRAWN BY: DMS/AHW/AW
SCALE: AS NOTED	CHECKED BY: SMB/DMS/AHW
DRAWING NUMBER:	

**A-3**



**1 SECOND FLOOR PLAN**  
SCALE: 3/16" = 1'-0"



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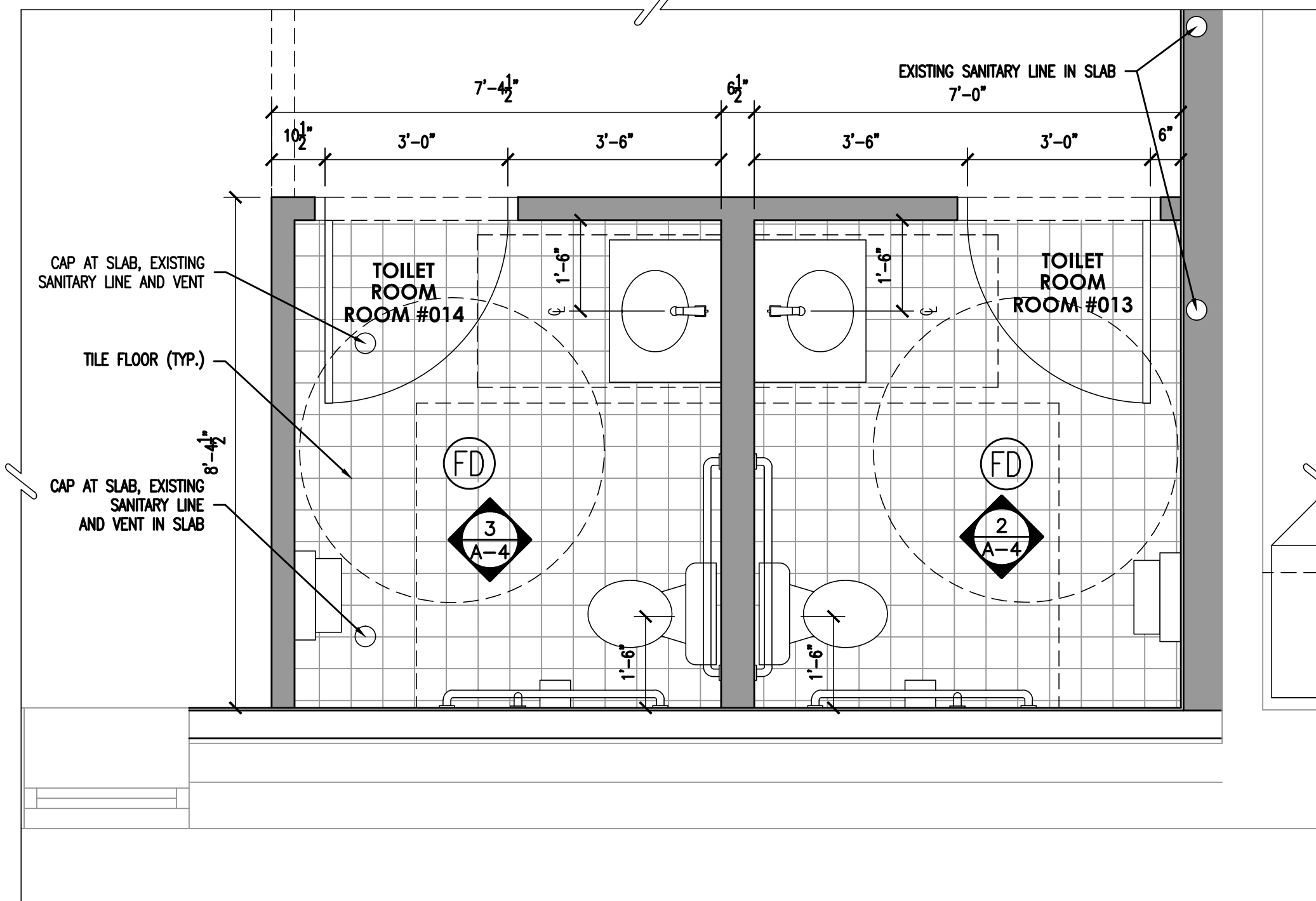
**DIRK MUIITS III, AIA**

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PA REGISTERED ARCHITECT No. 402435  
DE REGISTERED ARCHITECT No. S5-0007528  
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MD REGISTERED ARCHITECT No. 14068  
DC REGISTERED ARCHITECT No. ARC102373

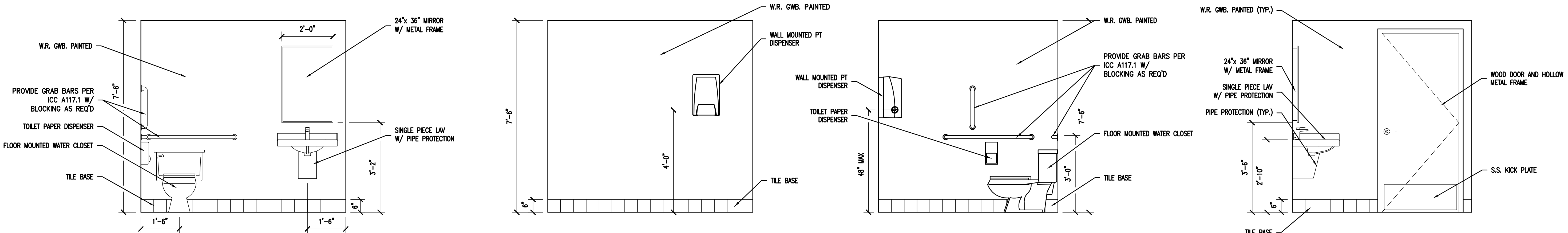
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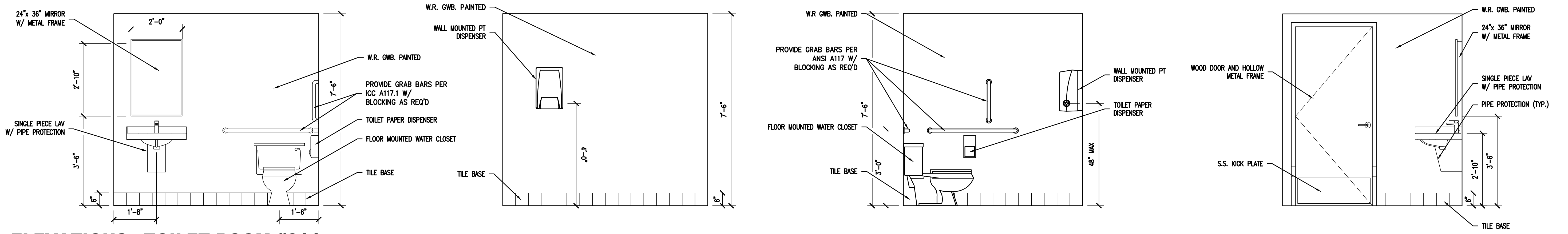
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REGAN BUILDING**  
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BLACKWOOD, NEW JERSEY 08012  
CAMDEN COUNTY, NEW JERSEY



**1 FLOOR PLAN - TOILET ROOM #013 & #014**  
SCALE: 1/2" = 1'-0"



**2 ELEVATIONS - TOILET ROOM #013**  
SCALE: 1/2" = 1'-0"



**3 ELEVATIONS - TOILET ROOM #014**  
SCALE: 1/2" = 1'-0"

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REVISIONS		
NO.	DESCRIPTION	DATE

DRAWING TITLE:  
**TOILET ROOM  
FLOOR PLANS  
AND ELEVATIONS  
ROOMS 013 & 014**

JOB NO: CCJAZ20-02	DESIGNED BY: DMS/AHW/RHW/DWG
DATE: OCTOBER 19, 2020	DRAWN BY: DMS/AHW/AW
SCALE: AS NOTED	CHECKED BY: SMB/DMS/AHW

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**A-4**





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SEALS:

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DE REGISTERED ARCHITECT No. S5-0007528  
NY REGISTERED ARCHITECT No. 0296608-1  
CT REGISTERED ARCHITECT No. 46110403  
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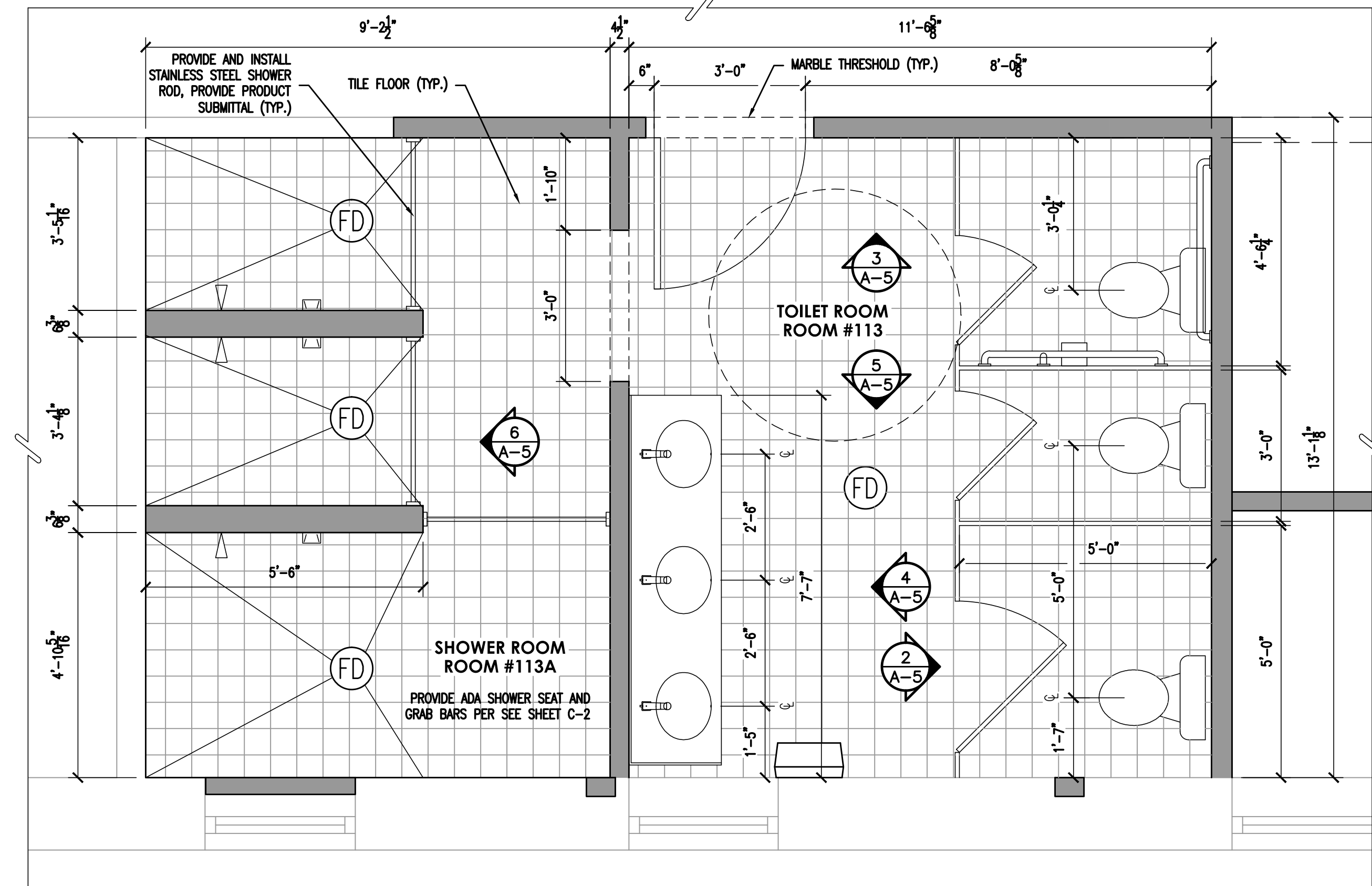
NO.	DESCRIPTION	DATE

DRAWING TITLE:  
**TOILET ROOM  
FLOOR PLANS  
AND ELEVATIONS  
ROOMS 113 & 113A**

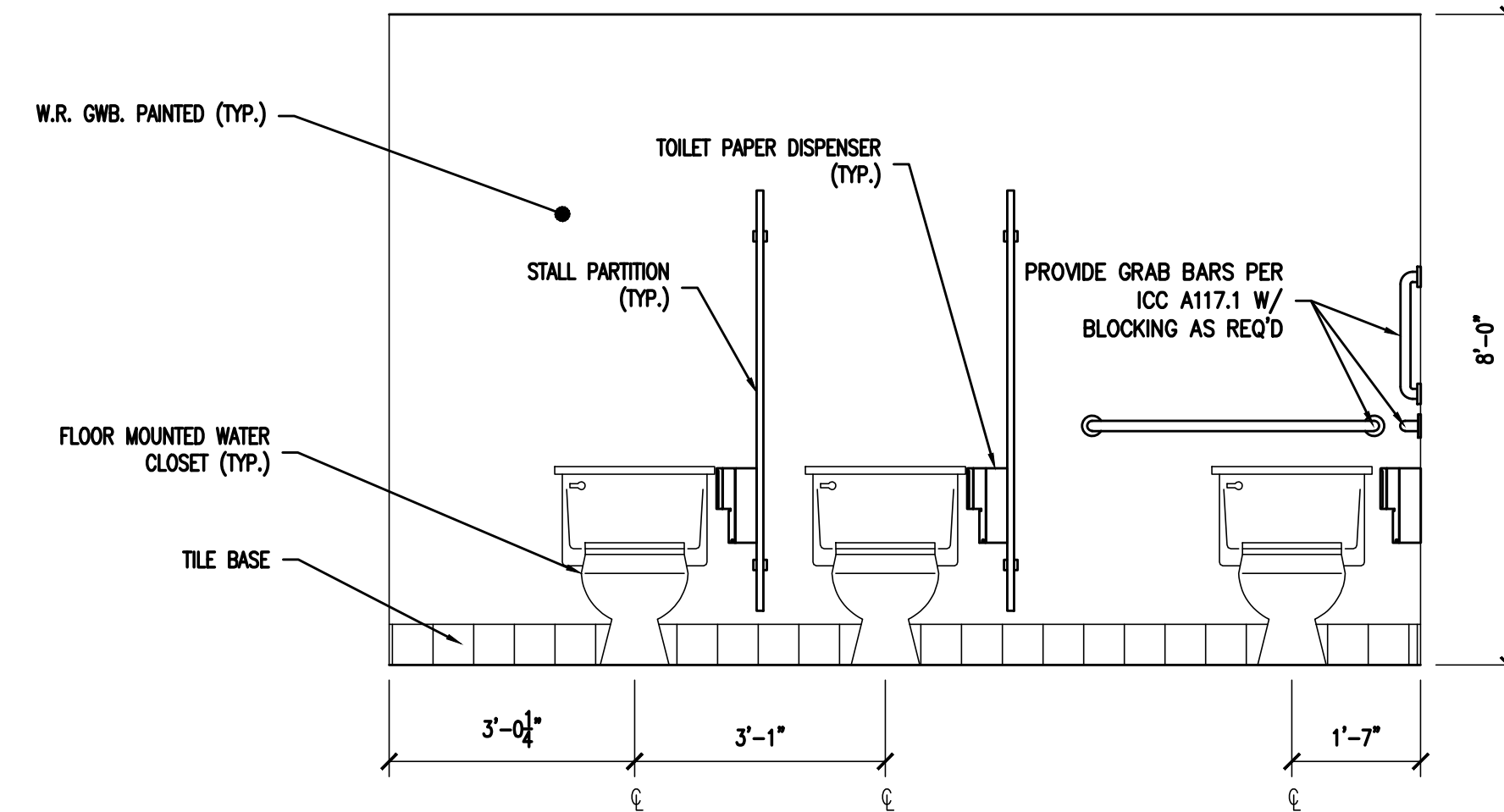
JOB NO: CCIA2020-02  
DESIGNED BY: DMS/AHW/RHW/DWG  
DATE: OCTOBER 19, 2020  
DRAWN BY: DMS/AHW/AW  
SCALE: AS NOTED  
CHECKED BY: SMB/DMS/AHW

DRAWING NUMBER:

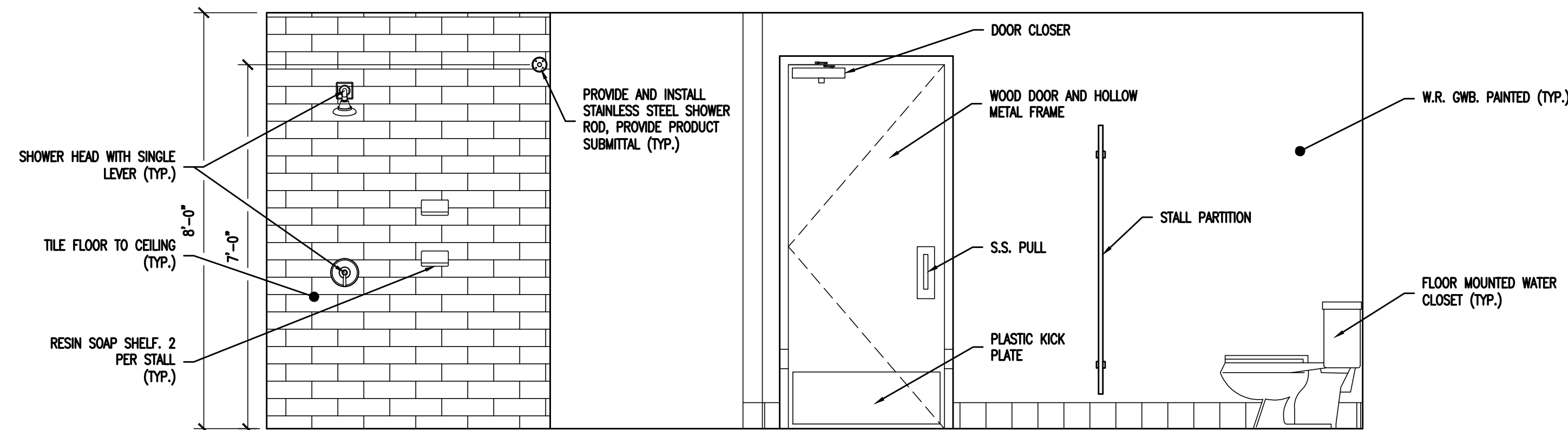
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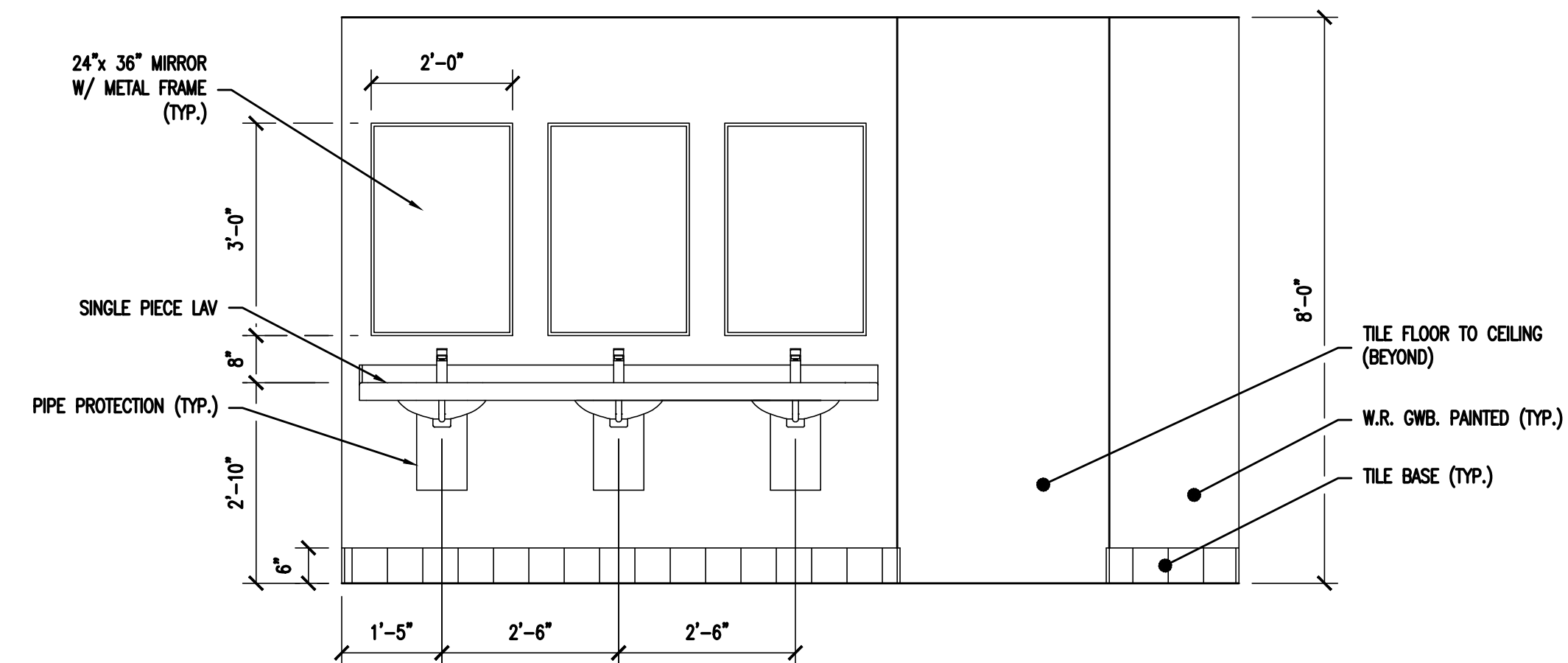
**1 FLOOR PLAN - TOILET ROOM #113 & #113A**  
SCALE: 1/2" = 1'-0"



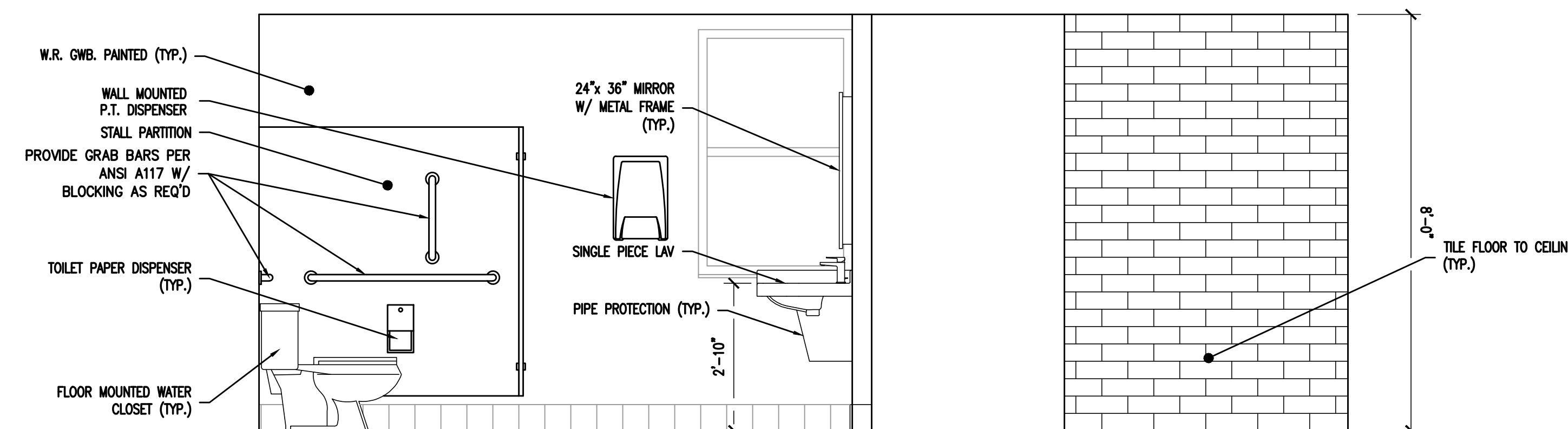
**2 ELEVATIONS - TOILET ROOM #113**  
SCALE: 1/2" = 1'-0"



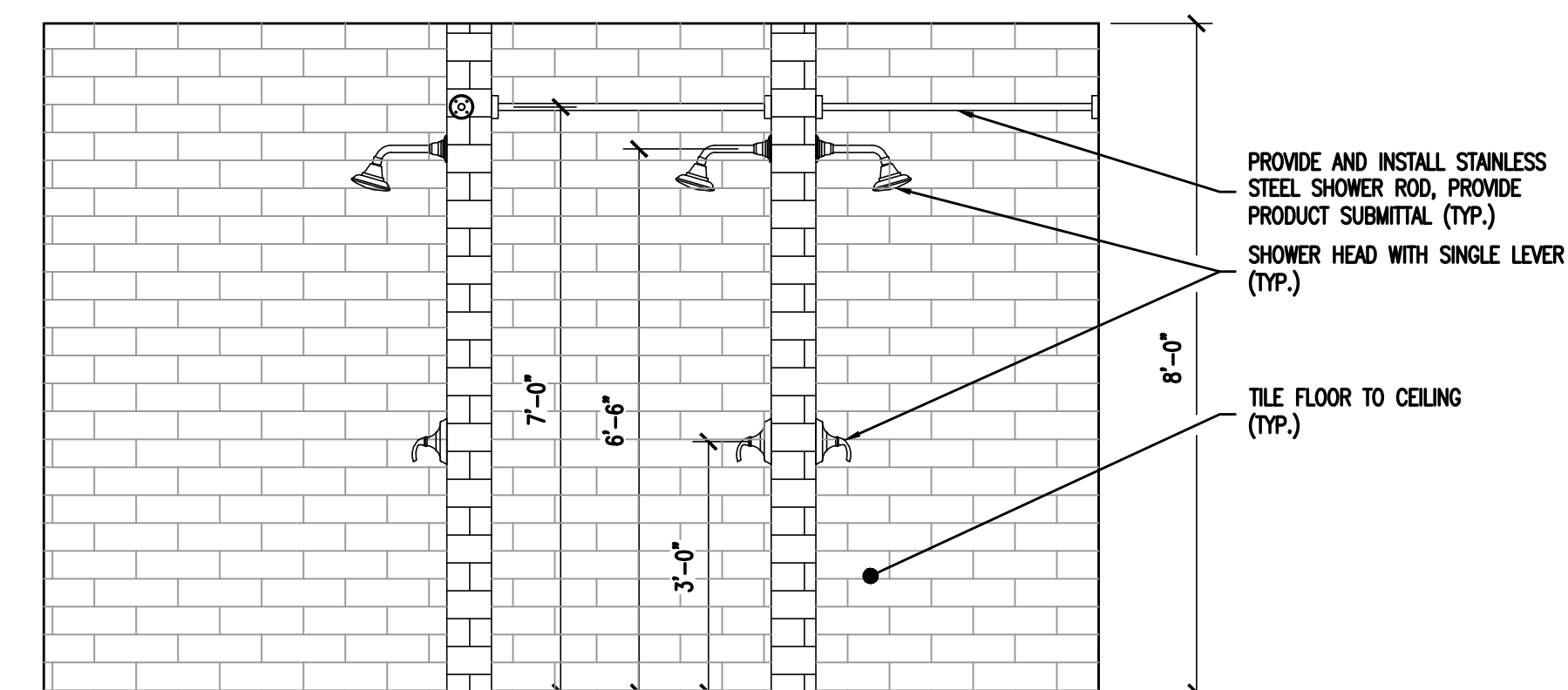
**3 ELEVATIONS - TOILET ROOM #113**  
SCALE: 1/2" = 1'-0"



**4 ELEVATIONS - TOILET ROOM #113**  
SCALE: 1/2" = 1'-0"



**5 ELEVATIONS - TOILET ROOM #113**  
SCALE: 1/2" = 1'-0"



**6 ELEVATIONS - TOILET ROOM #113**  
SCALE: 1/2" = 1'-0"



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SEALS:

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NJ REGISTERED ARCHITECT No. AI 15840  
PA REGISTERED ARCHITECT No. 402435  
DE REGISTERED ARCHITECT No. SS-0007528  
NY REGISTERED ARCHITECT No. 0296608-1  
CT REGISTERED ARCHITECT No. 46110403  
MD REGISTERED ARCHITECT No. 14068  
DC REGISTERED ARCHITECT No. ARC102373

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PROJECT:

**CAMDEN COUNTY  
RENOVATION & MODERNIZATION  
REGAN BUILDING**  
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REVISIONS

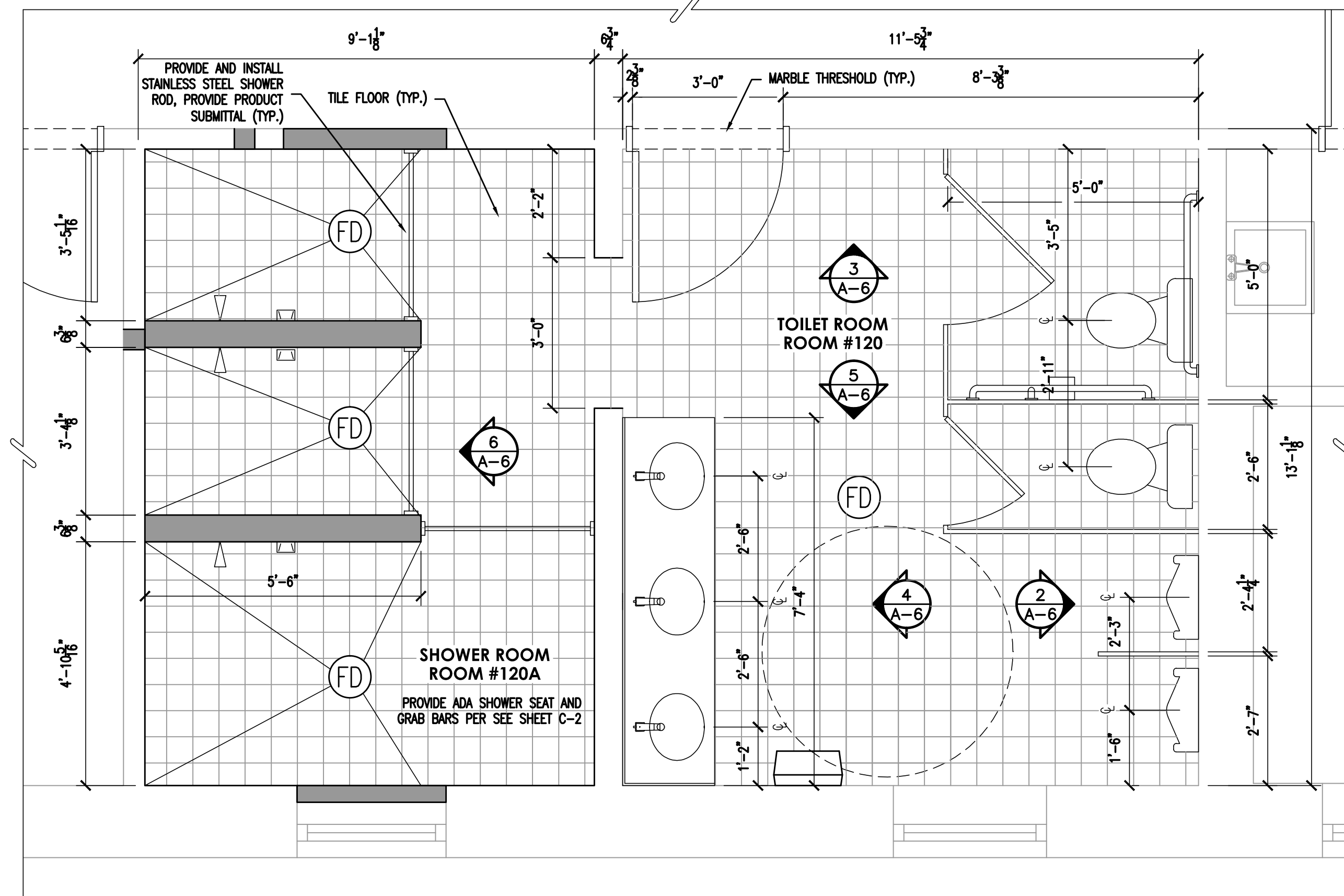
NO.	DESCRIPTION	DATE

DRAWING TITLE:  
**TOILET ROOM  
FLOOR PLANS  
AND ELEVATIONS  
ROOMS 120 & 120A**

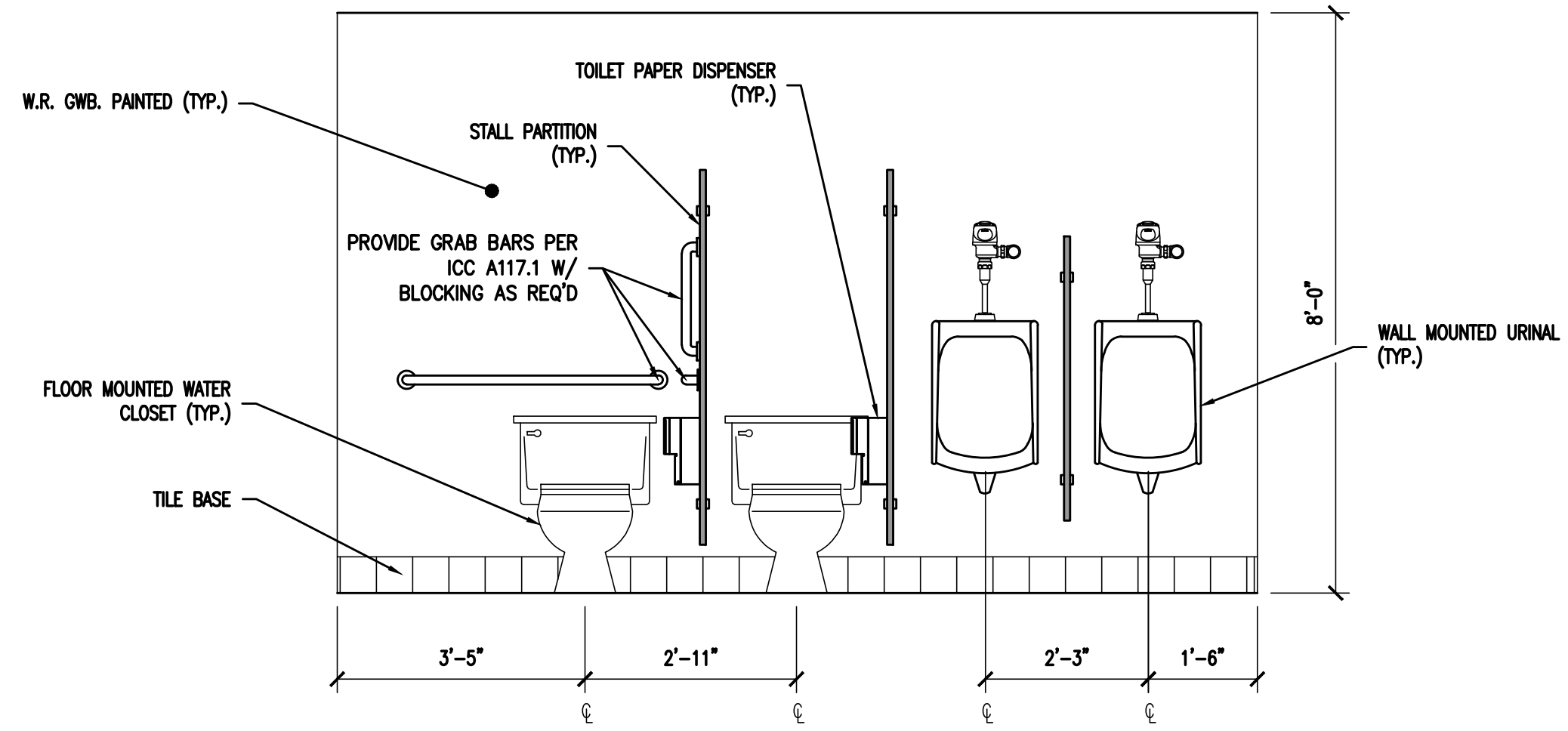
JOB NO: CCIA2020-02  
DESIGNED BY: DMS/AHW/RHW/DWG  
DATE: OCTOBER 19, 2020  
DRAWN BY: DMS/AHW/AW  
SCALE: AS NOTED  
CHECKED BY: SMB/DMS/AHW

DRAWING NUMBER:

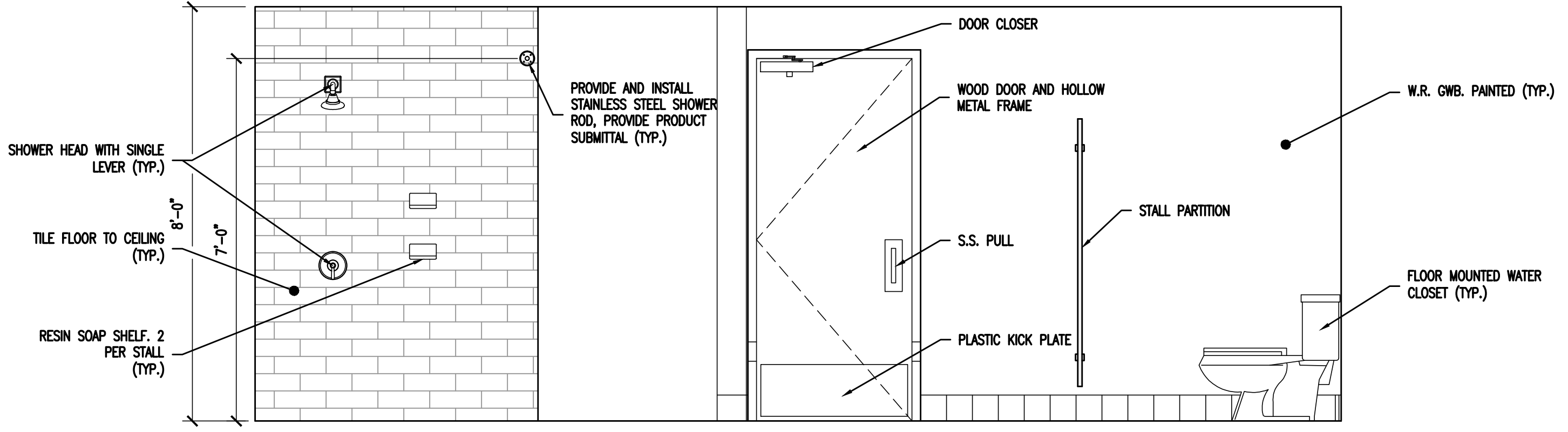
**A-6**



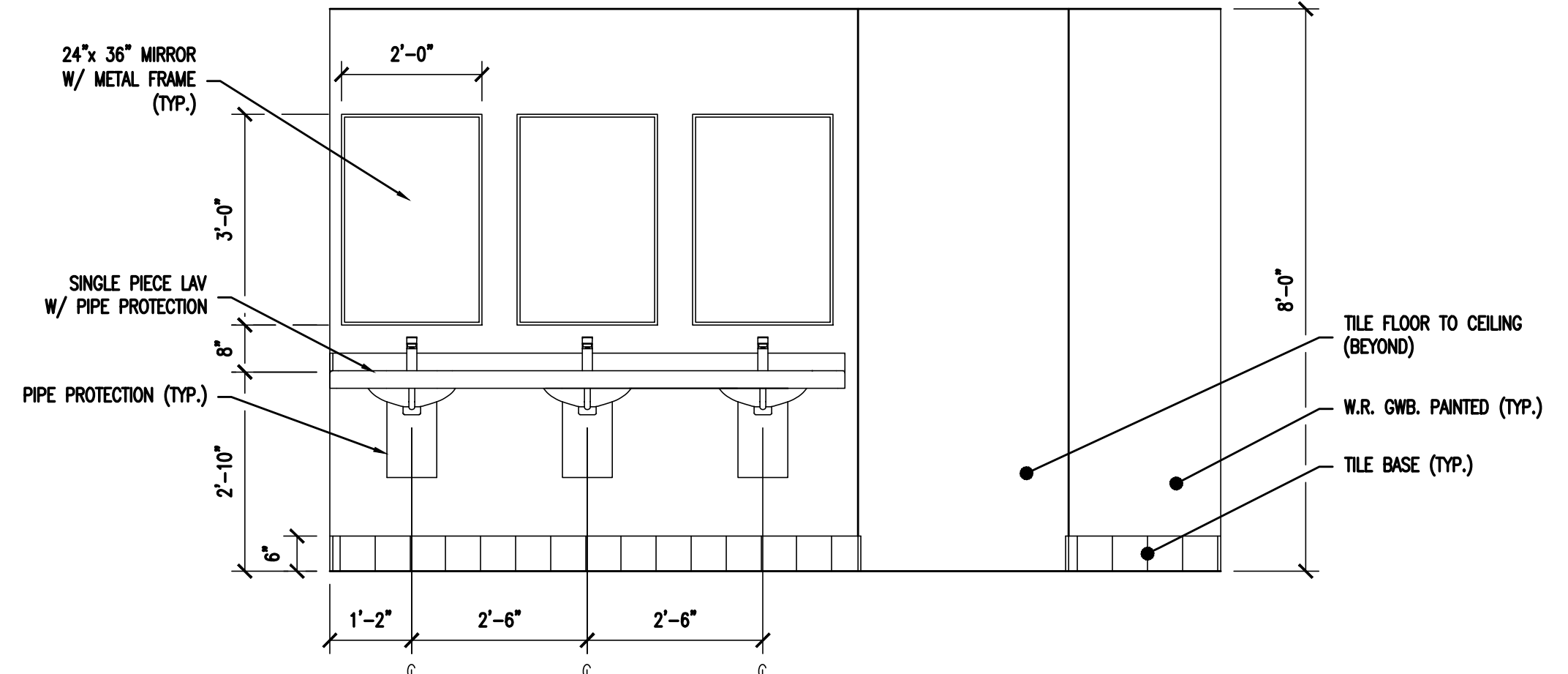
**1 FLOOR PLAN - TOILET ROOM #120 & #120A**  
SCALE: 1/2" = 1'-0"



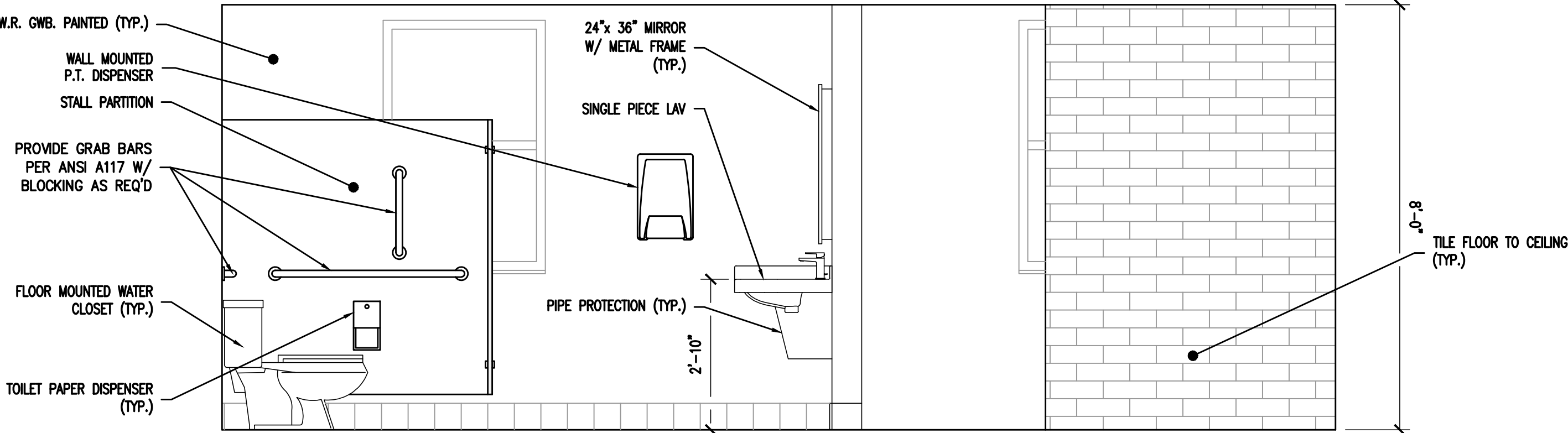
**2 ELEVATIONS - TOILET ROOM #120**  
SCALE: 1/2" = 1'-0"



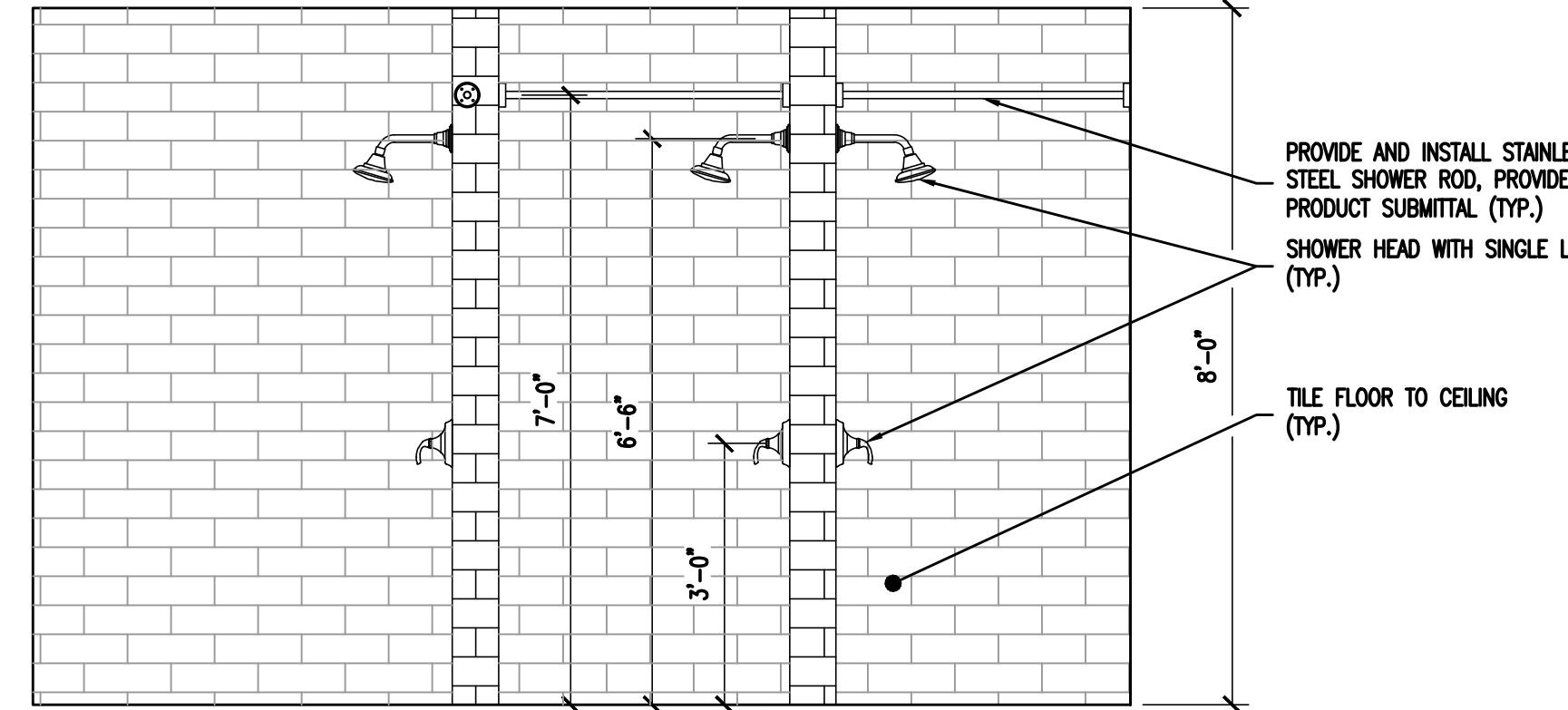
**3 ELEVATIONS - TOILET ROOM #120**  
SCALE: 1/2" = 1'-0"



**4 ELEVATIONS - TOILET ROOM #120**  
SCALE: 1/2" = 1'-0"



**5 ELEVATIONS - TOILET ROOM #120**  
SCALE: 1/2" = 1'-0"



**6 ELEVATIONS - TOILET ROOM #120**  
SCALE: 1/2" = 1'-0"



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SEALS:

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PA REGISTERED ARCHITECT No. 402435  
DE REGISTERED ARCHITECT No. S5-0007528  
NY REGISTERED ARCHITECT No. 029608-1  
CT REGISTERED ARCHITECT No. ARL10403  
MD REGISTERED ARCHITECT No. 14068  
DC REGISTERED ARCHITECT No. ARC102373

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REVISIONS

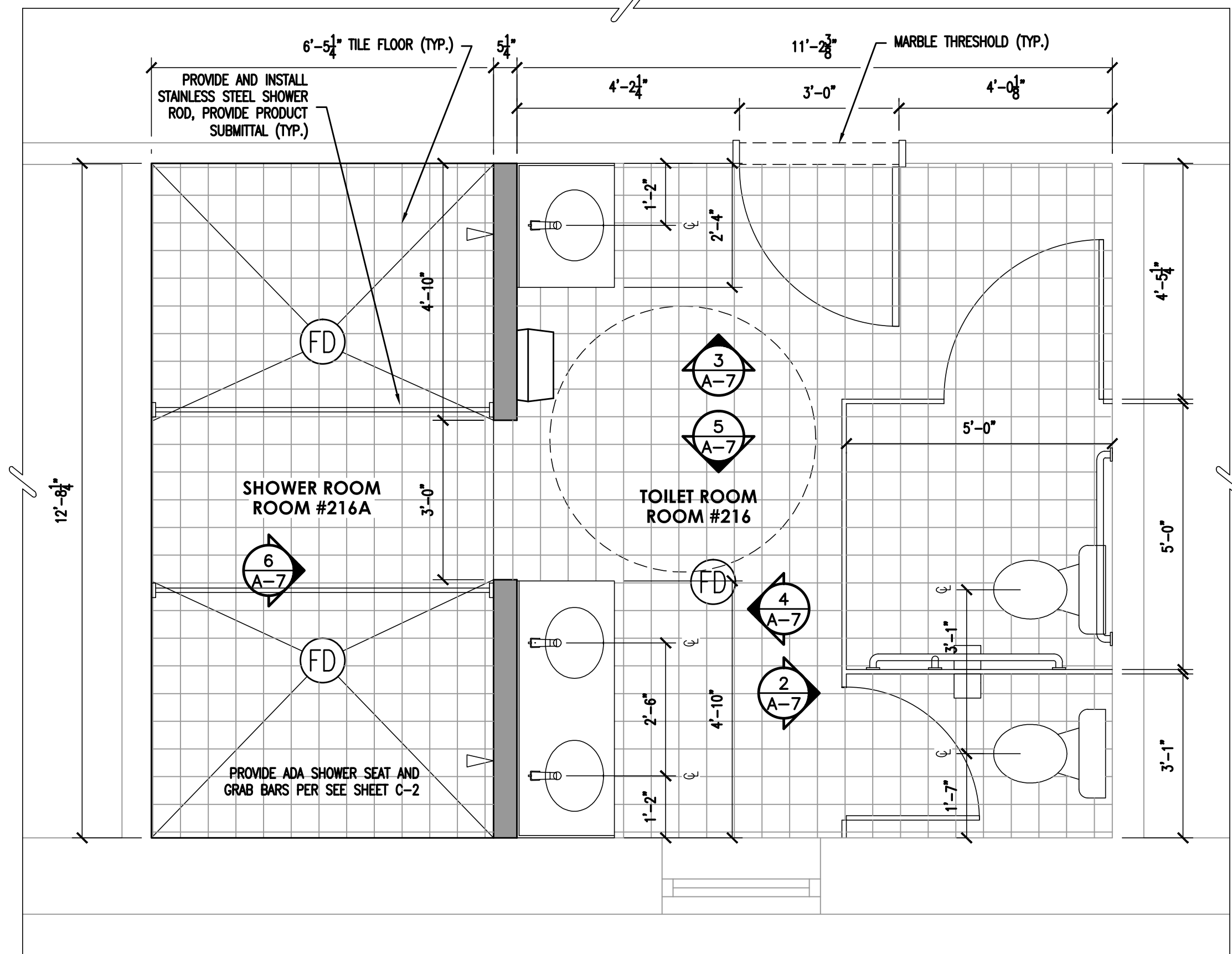
NO.	DESCRIPTION	DATE

DRAWING TITLE:  
**TOILET ROOM  
FLOOR PLANS  
AND ELEVATIONS  
ROOMS 216 & 216A**

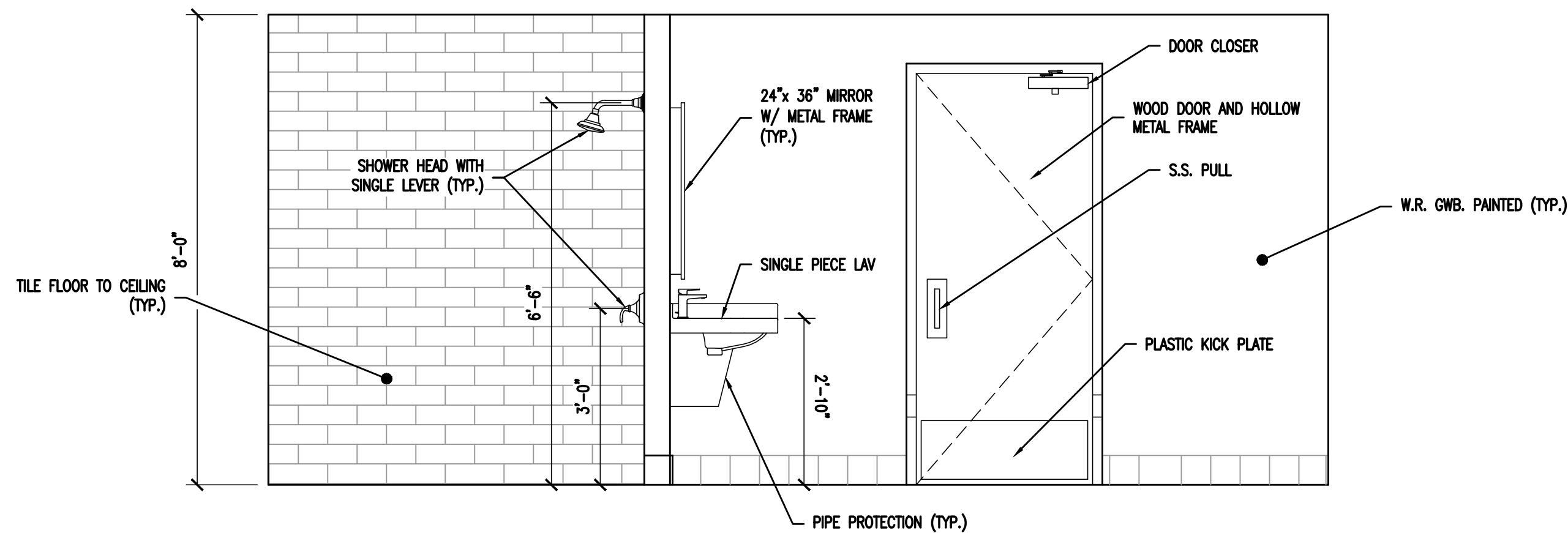
JOB NO: CCJAZ20-02  
DESIGNED BY: DMS/AAM/RHJ/DMG  
DATE: OCTOBER 19, 2020  
DRAWN BY: DMS/AAM/AAM  
SCALE: AS NOTED  
CHECKED BY: SMB/DMS/AAM

DRAWING NUMBER:

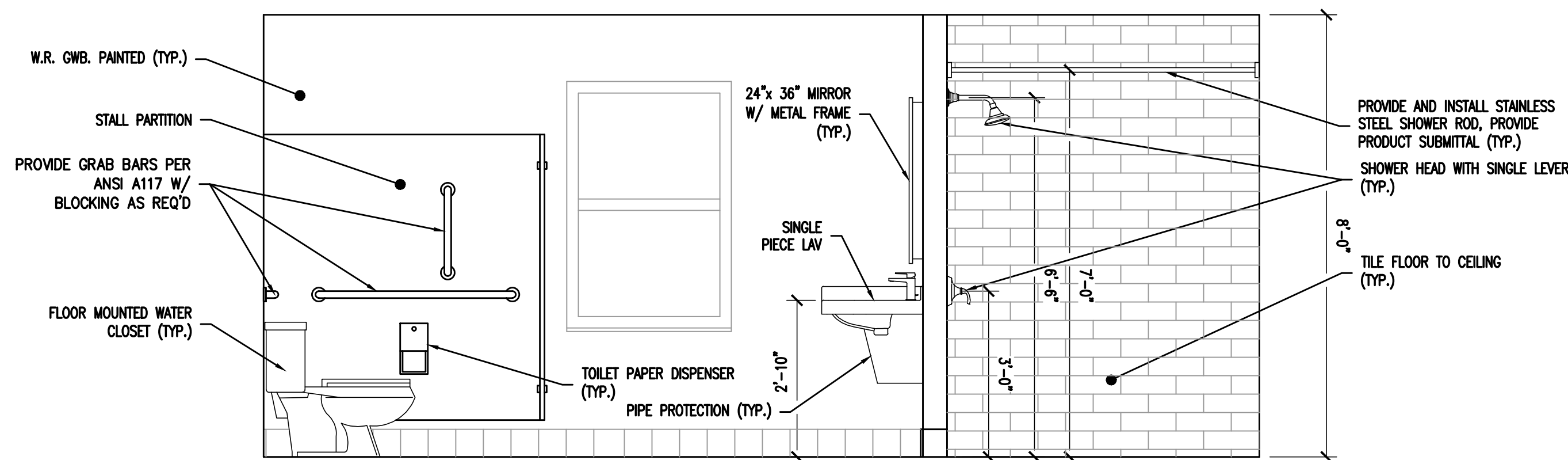
**A-7**



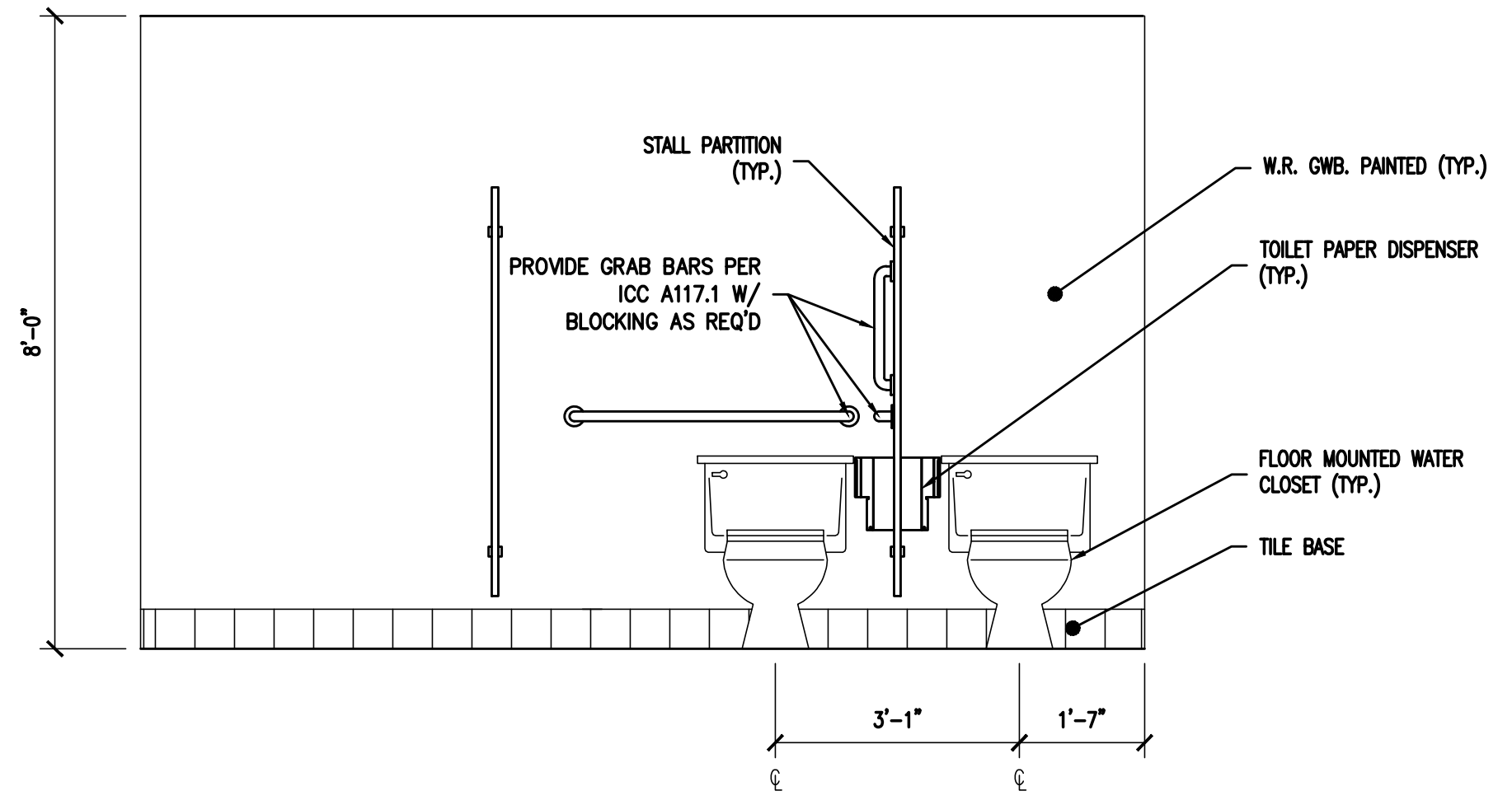
**1 FLOOR PLAN - TOILET ROOM #216 & #216A**



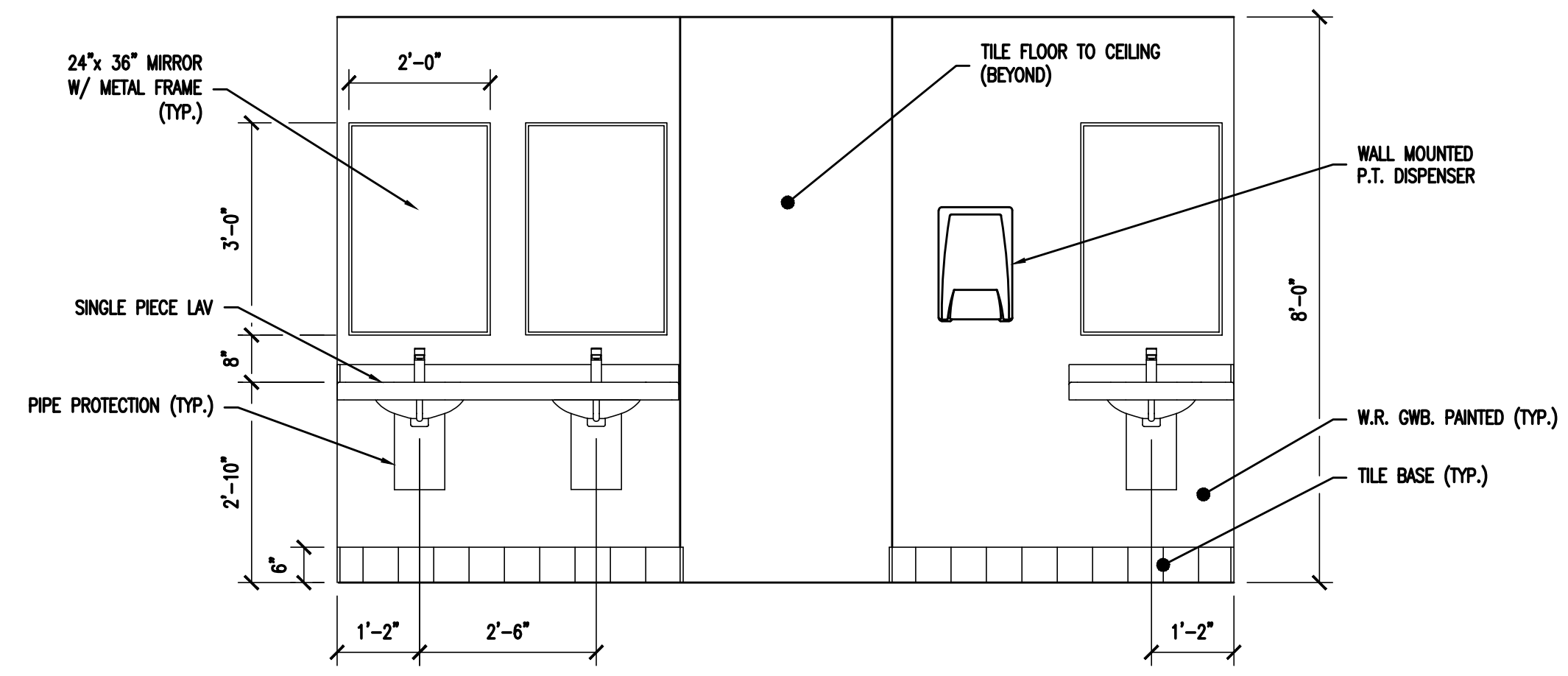
**3 ELEVATIONS - TOILET ROOM #216**  
SCALE: 1/2" = 1'-0"



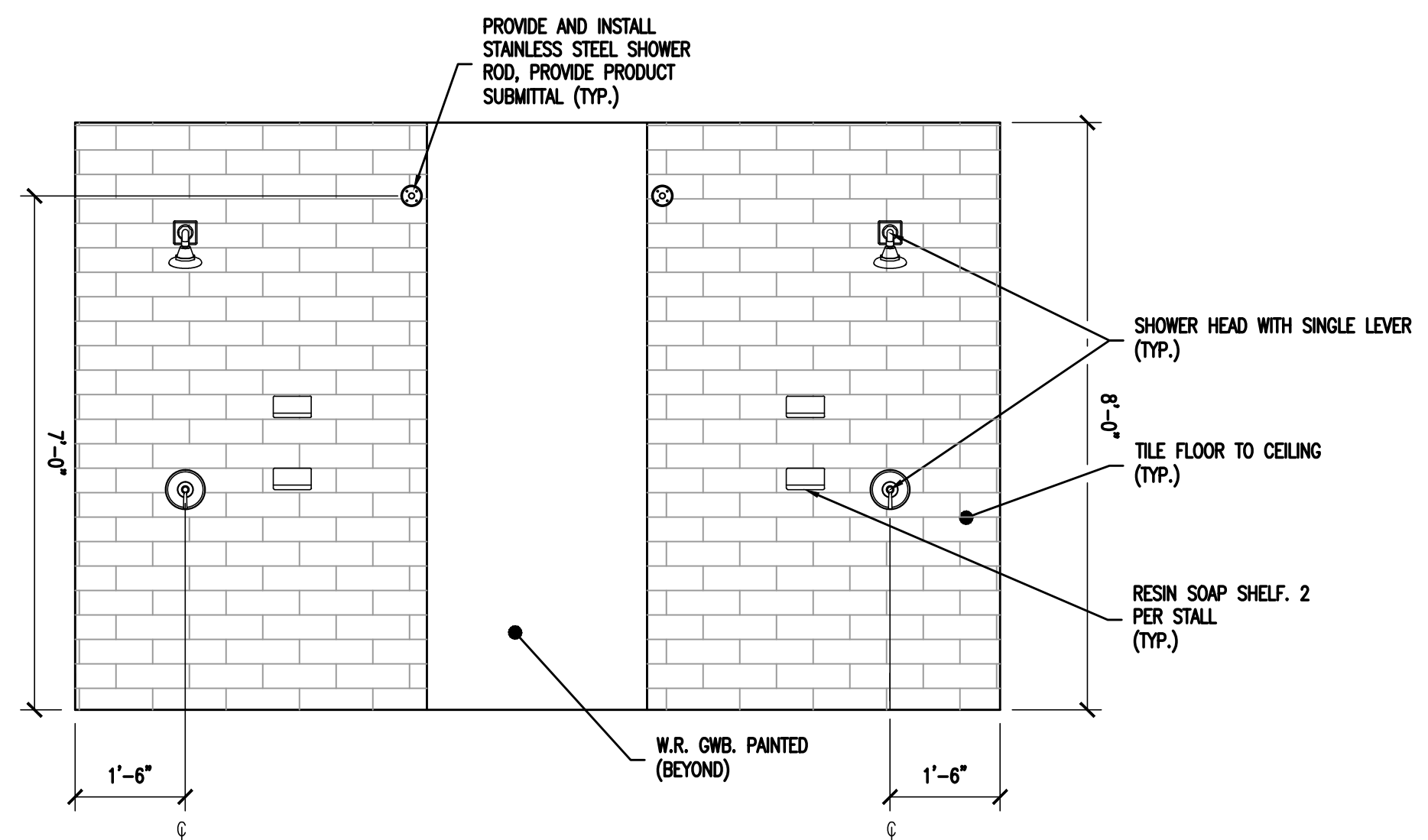
**ELEVATIONS - TOILET ROOM #216**  
SCALE: 1/2" = 1'-0"



**2 ELEVATIONS - TOILET ROOM #216**  
SCALE: 1/2" = 1'-0"



**ELEVATIONS - TOILET ROOM #216**  
SCALE: 1/2" = 1'-0"



**6 ELEVATIONS - TOILET ROOM #216**  
SCALE: 1/2" = 1'-0"





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SEALS:

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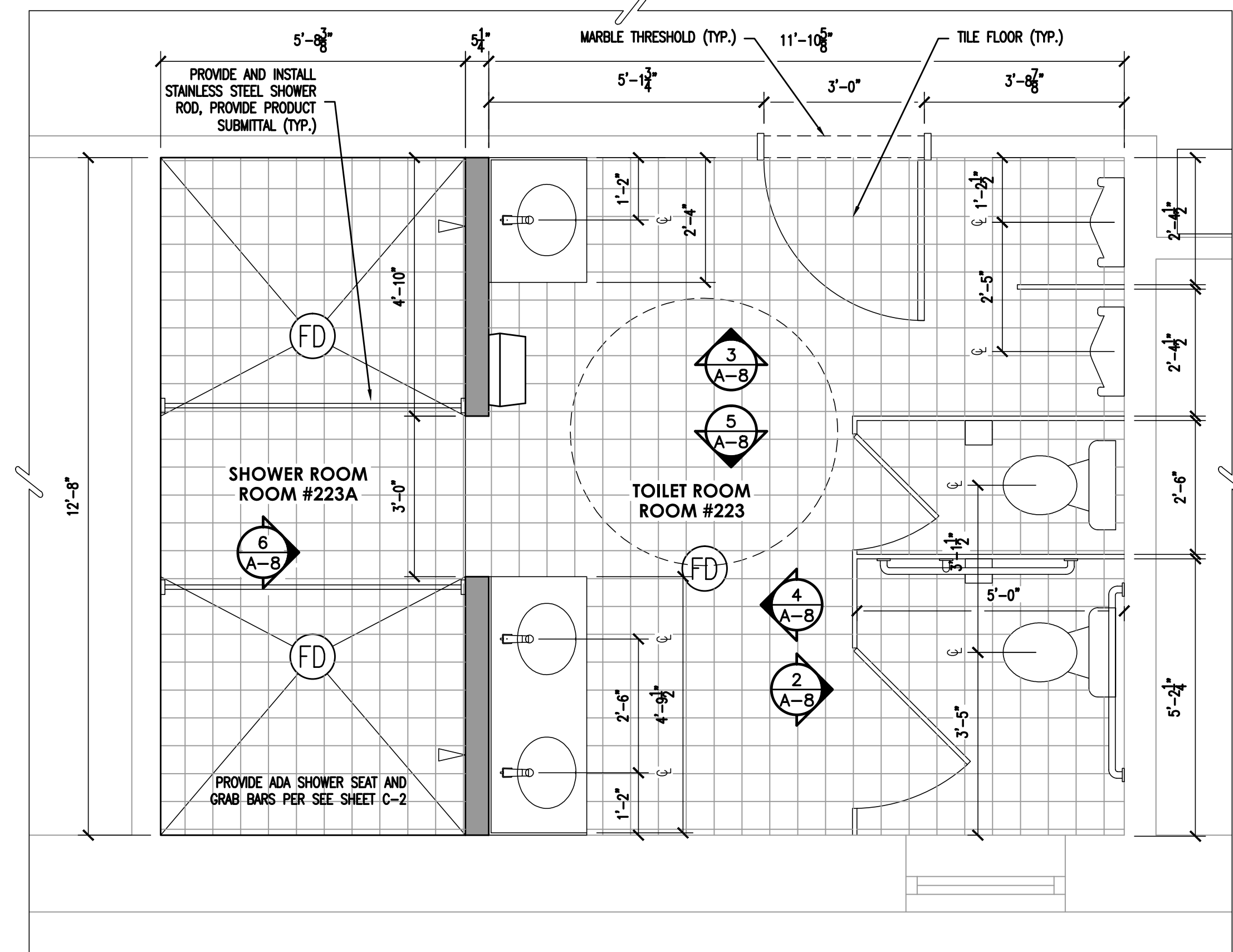
NO.	DESCRIPTION	DATE

**TOILET ROOM  
FLOOR PLANS  
AND ELEVATIONS  
ROOMS 223 & 223A**

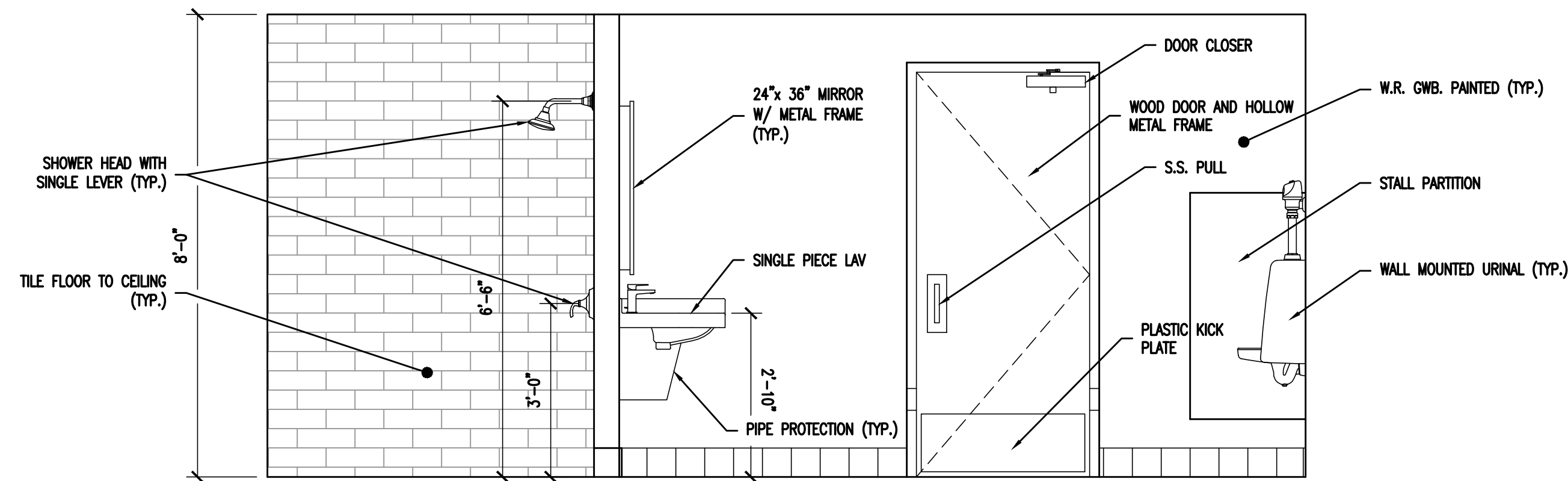
JOB NO: CCJAZ2020-02  
DESIGNED BY: DMS/AHW/RH/DWG  
DATE: OCTOBER 19, 2020  
DRAWN BY: DMS/AHW/AW  
SCALE: AS NOTED  
CHECKED BY: SMB/DMS/AHW

DRAWING NUMBER:

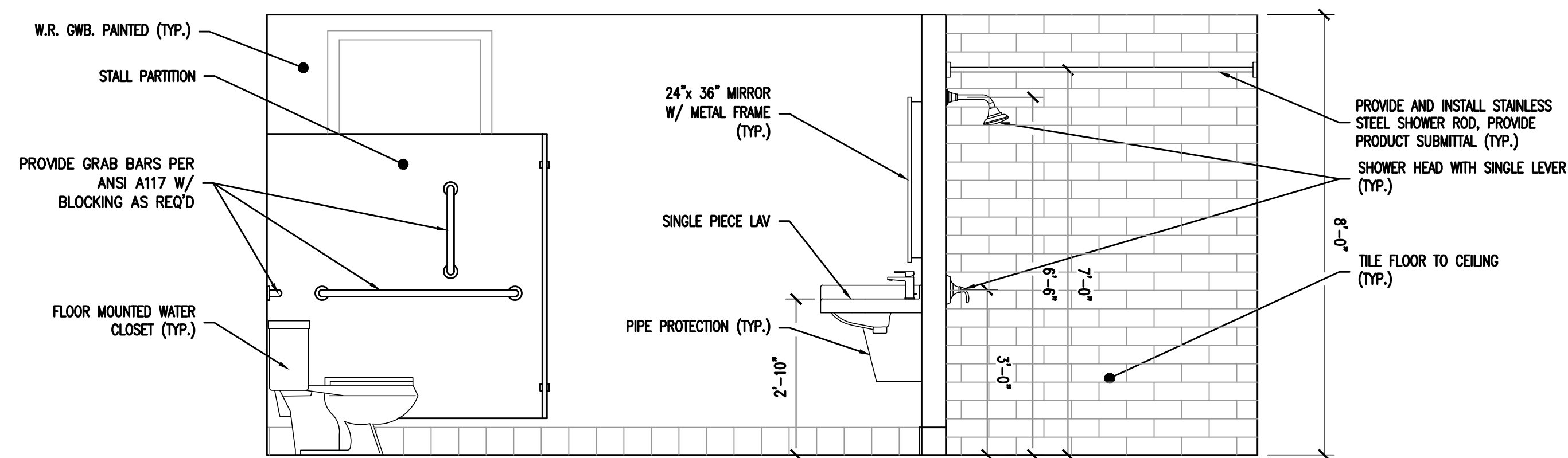
**A-8**



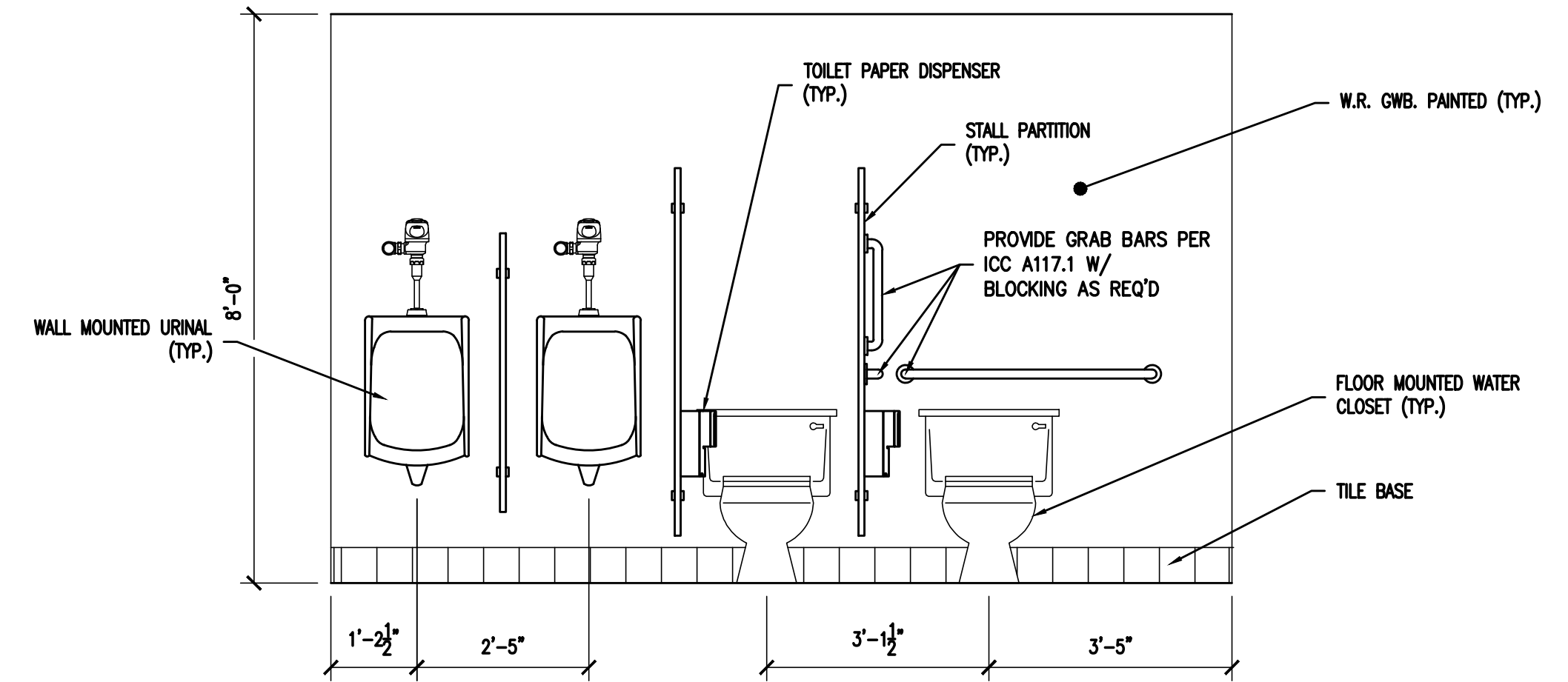
**1 FLOOR PLAN - TOILET ROOM #223 & #223A**  
SCALE: 1/2" = 1'-0"



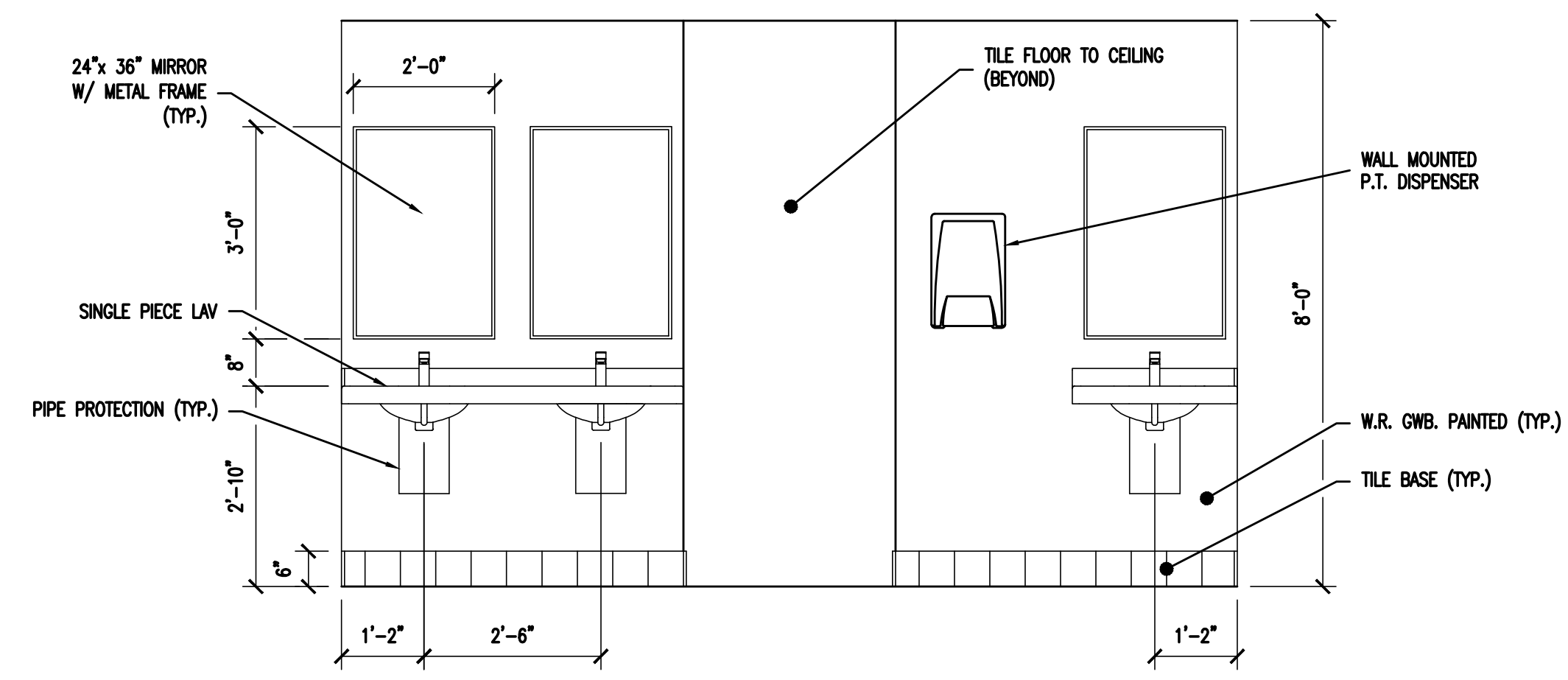
**3 ELEVATIONS - TOILET ROOM #223**  
SCALE: 1/2" = 1'-0"



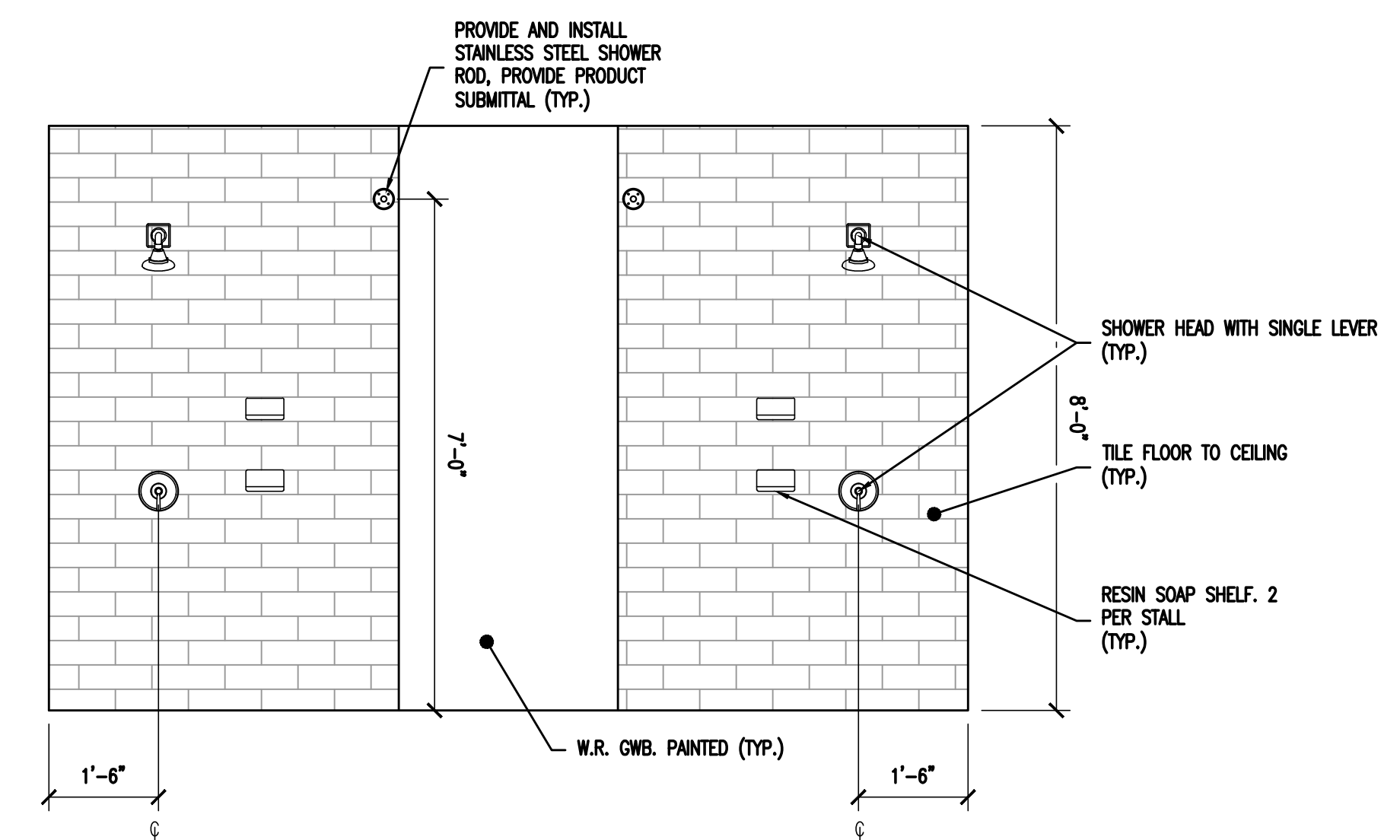
**ELEVATIONS - TOILET ROOM #223**  
SCALE: 1/2" = 1'-0"



**2 ELEVATIONS - TOILET ROOM #223**  
SCALE: 1/2" = 1'-0"



**ELEVATIONS - TOILET ROOM #223**  
SCALE: 1/2" = 1'-0"



**6 ELEVATIONS - TOILET ROOM #223**  
SCALE: 1/2" = 1'-0"



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NO.	DESCRIPTION	DATE

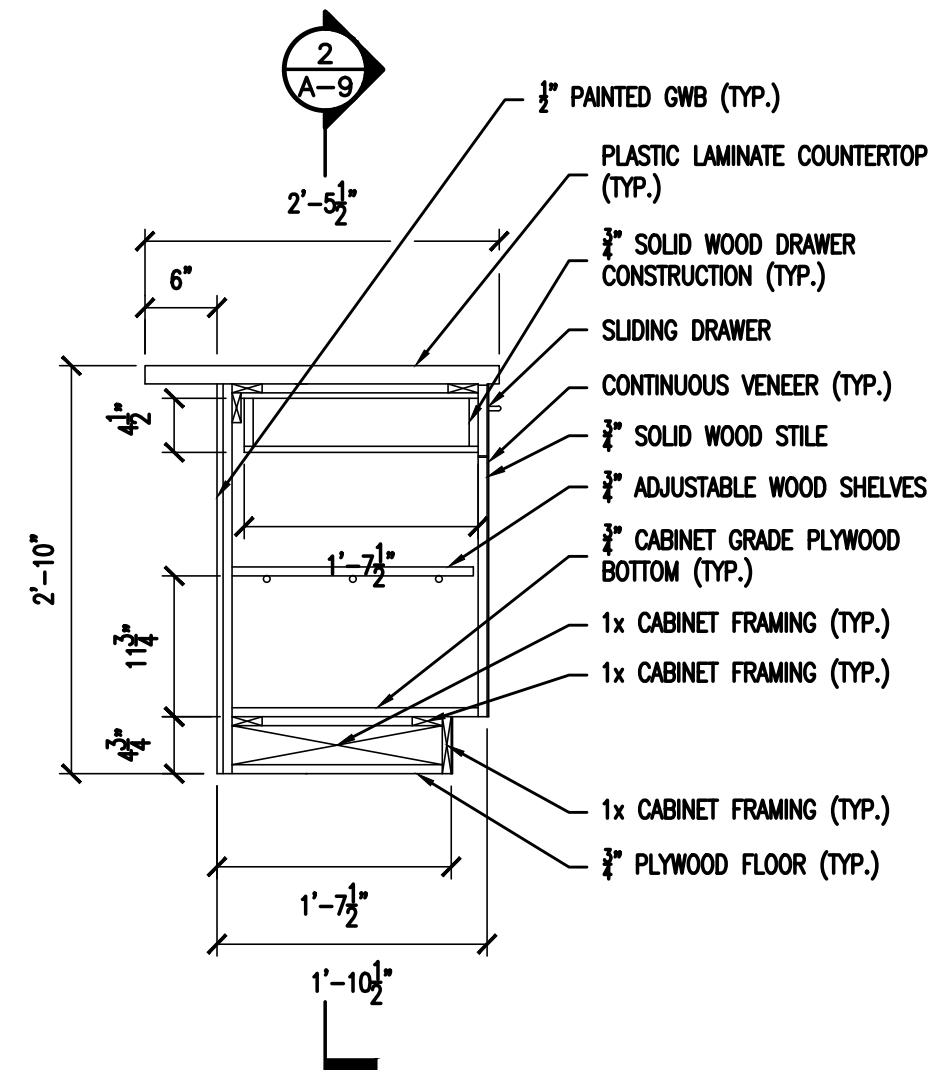
DRAWING TITLE:

**COUNTER  
DETAILS**

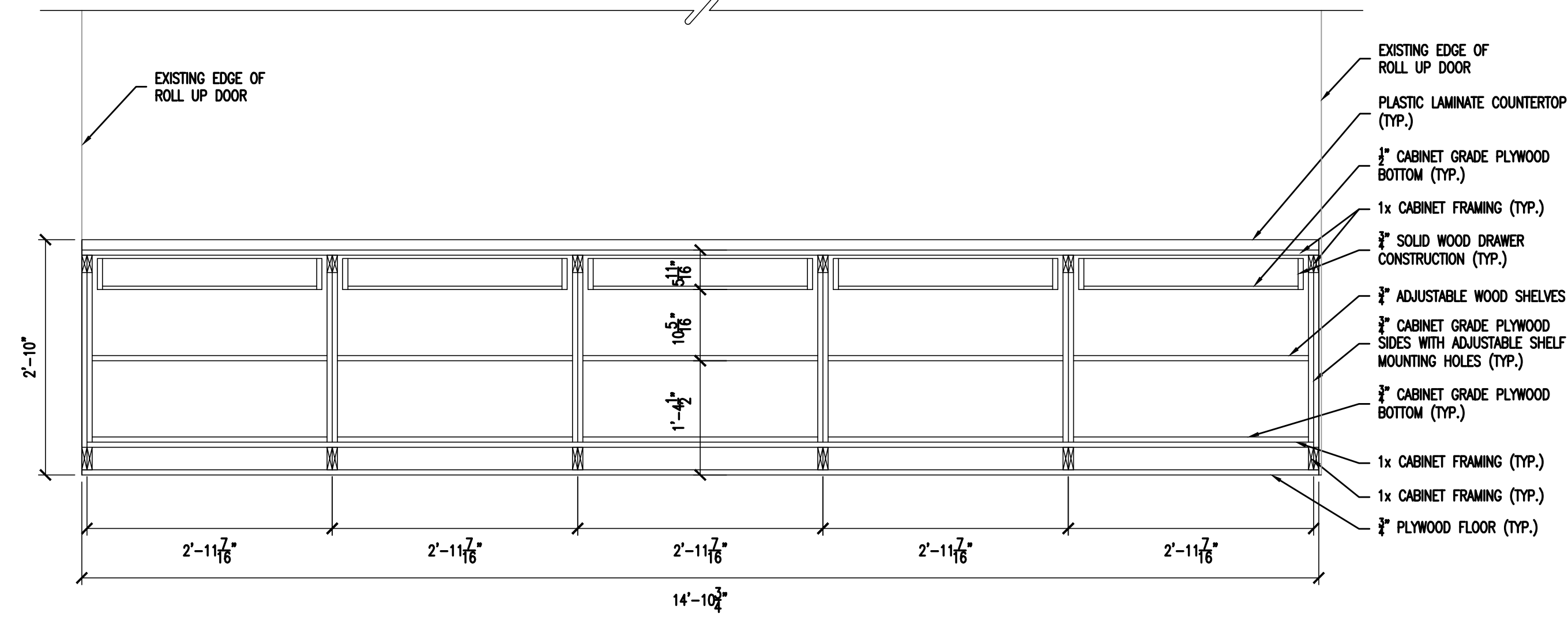
JOB NO: CCJAZ2020-02	DESIGNED BY: DMS/AAM/RH/DMG
DATE: OCTOBER 19, 2020	DRAWN BY: DMS/AAM/AAM
SCALE: AS NOTED	CHECKED BY: SMB/DMS/AAM

DRAWING NUMBER:

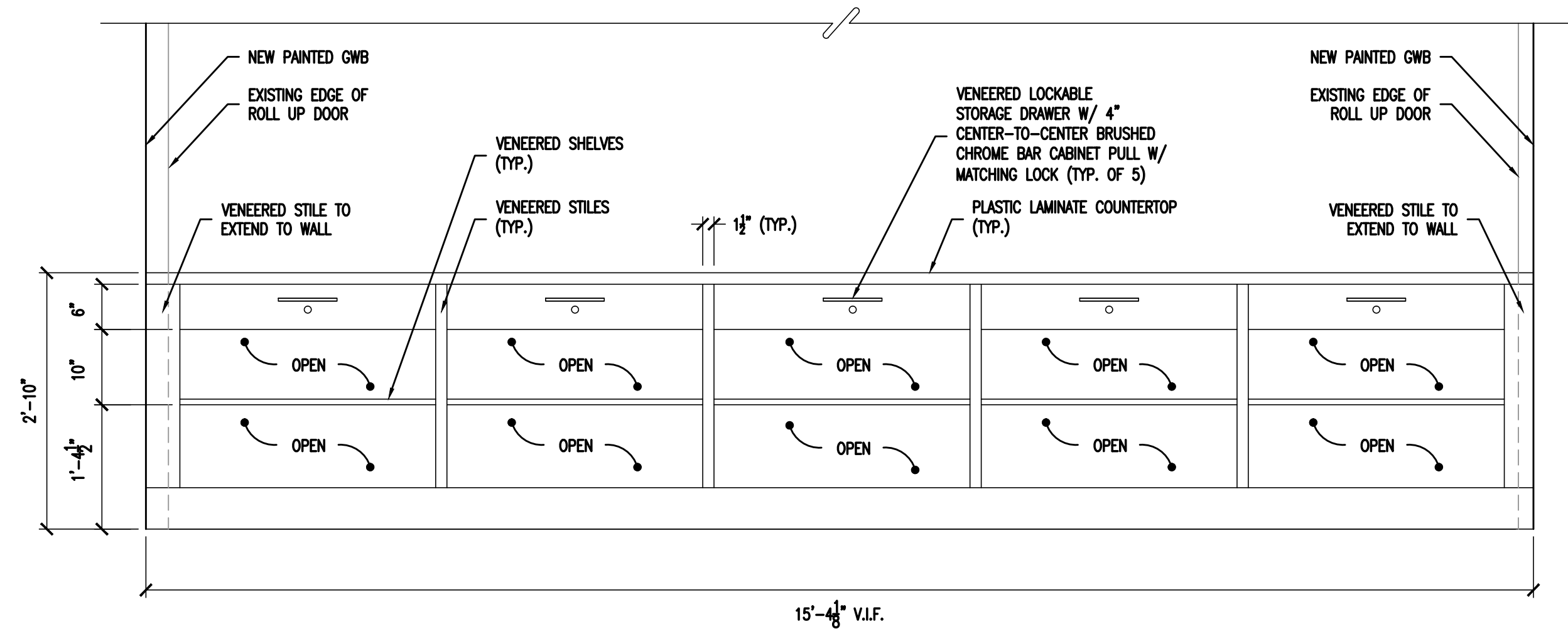
**A-9**



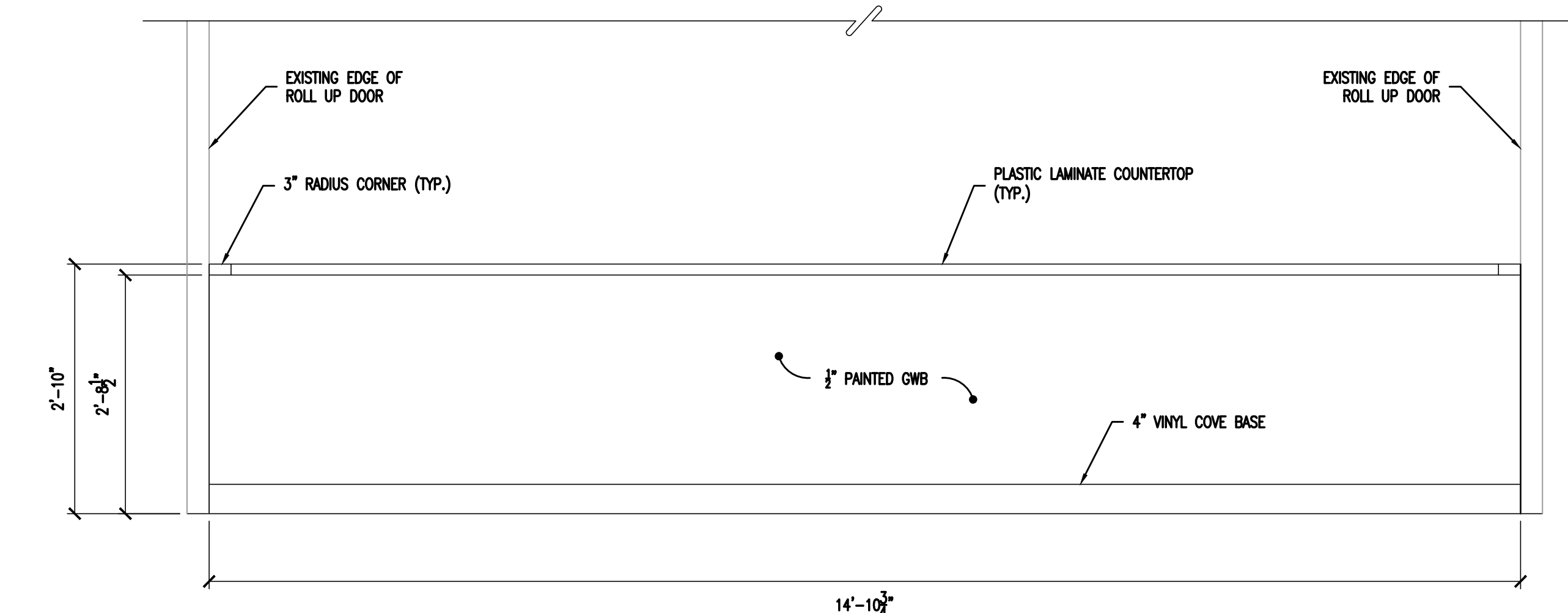
**1 SECTION - COUNTER**  
SCALE: 3/4" = 1'-0"



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



**3 ELEVATION - COUNTER (KITCHEN SIDE)**  
SCALE: 3/4" = 1'-0"



**4 ELEVATION - COUNTER (COMMUNITY SIDE)**  
SCALE: 3/4" = 1'-0"

# DOOR SCHEDULE

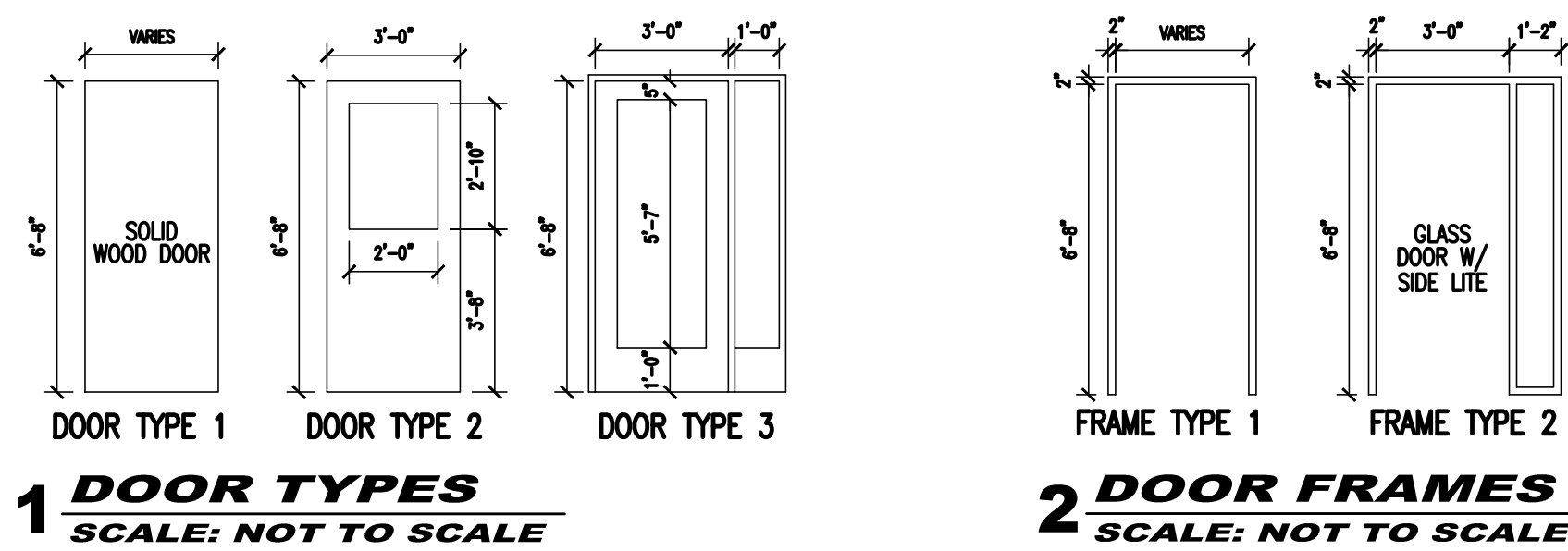
DOOR NUMBER	DOOR				FRAME			FRAME DETAIL	HARDWARE SET	DOOR THRESHOLD	FIRE RATING	REMARKS
	SIZE	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH					
BASEMENT												
001	EXISTING TO REMAIN	-	STL	P	-	-	PM	-	001	-	-	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
002	EXISTING TO REMAIN	-	STL	P	-	-	PM	-	002	-	-	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
003	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	003	-	-	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
004	EXISTING TO REMAIN	-	STL	P	-	-	PM	-	004	-	-	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
005	EXISTING TO REMAIN	-	STL	P	-	-	PM	-	005	-	-	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
006	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	006	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
007	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	007	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
008	2'-6" x 6'-8"	1	WD	P	1	HM	PM	1	008	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
009	4'-0" x 6'-8"	1	WD	P	1	HM	PM	1	009	-	-	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
010	EXISTING TO REMAIN	-	STL	P	-	-	PM	-	010	-	-	EXISTING STEEL OVERHEAD DOOR
011	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	011	AL	-	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
012	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	012	AL	-	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
013	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	013	-	-	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
014	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	014	-	-	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY

FIRST FLOOR												
100	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	100	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
101	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	101	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
102	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	102	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
103	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	103	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
104	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	104	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
105	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	105	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
106	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	106	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
107	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	107	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
108	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	108	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
109	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	109	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
110	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	110	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
111	3'-0" x 7'-0"	3	AL/GLASS	FF	2	AL	FF	3	111	AL	-	YKK STOREFRONT ENTRANCE, NOTES 1, 4
112	EXISTING TO REMAIN	-	STL	P	-	-	PM	-	112	-	-	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
113	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	113	AL	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
114	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	114	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
115	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	115	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
116	EXISTING TO REMAIN	-	STL	P	-	-	PM	-	116	-	-	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
117	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	117	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
118	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	118	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
119	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	119	-	-	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
120	2'-6" x 6'-8"	1	WD	P	1	HM	PM	1	120	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
121	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	121	AL	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
122	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	122	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
123	EXISTING TO REMAIN	-	STL	P	-	-	PM	-	123	-	-	SEE NOTE 6, READ NOTES IN THERE ENTIRETY

SECOND FLOOR												
201	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	201	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
202	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	202	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
203	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	203	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
204	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	204	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
205	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	205	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
206	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	206	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
207	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	207	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
208	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	208	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
209	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	209	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
210	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	210	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
211	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	211	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
212	EXISTING TO REMAIN	-	STL	P	-	-	PM	-	212	-	-	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
213	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	213	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
214	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	214	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
215	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	215	AL	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
216	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	216	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
217	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	217	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
218	2'-6" x 6'-8"	1	WD	P	1	HM	PM	1	218	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
219	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	219	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
220	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	220	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
221	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	221	AL	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
222	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	222	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
223	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1	223	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY
224	EXISTING TO REMAIN	-	STL	P	-	-	PM	-	224	-	-	SEE NOTE 6, READ NOTES IN THERE ENTIRETY

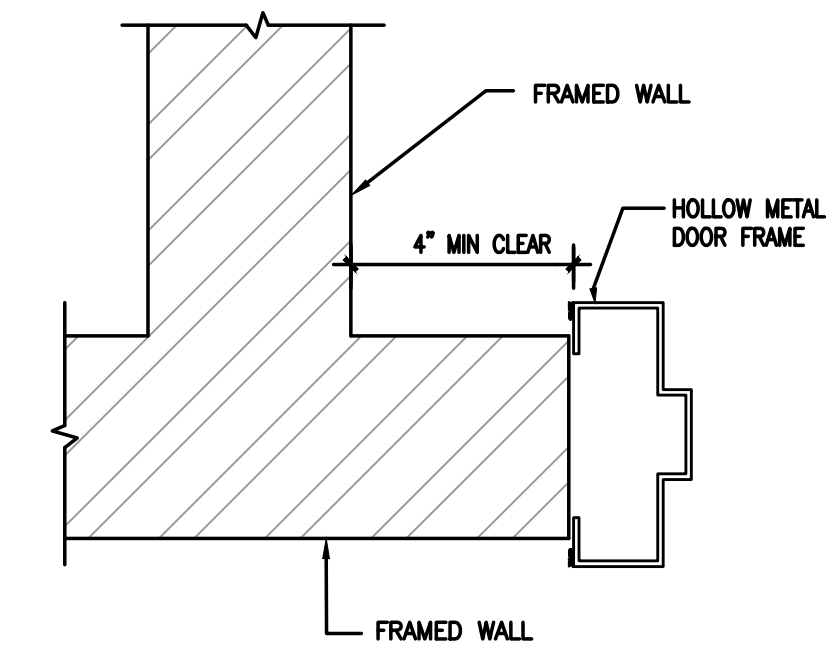
LEGEND:											
AL	ALUMINUM	CLR	CLEAR ANODIZED	RES	RESCUE HARDWARE	PB	PANIC BAR	MAR	MARBLE	RUB	RUBBER
WD	WOOD	PM	PAINTED METAL	CL	CLASSROOM LOCKET	PRV	PRIVACY LOCKET	FF	FACTORY FINISH	PC	POWDER COAT
ME	MATCH EXISTING	EX	EXISTING	PAS	PASSAGE LATCH	STL	STEEL	FG	ALL FIBERGLASS	FRP	FIBER REINFORCED PLASTIC
POLY	STAINED	HM	HOLLOW METAL	ST	STORE ROOM LOCKET	P	PAINT	FRP	FIBER REINFORCED PLASTIC		

- NOTES:
- 1. ALL GLAZING FOR DOOR AND WINDOW SHALL BE TEMPERED PLATE GLASS UNLESS NOTED OTHERWISE - ALL DOORS.
- 2. WHERE INDICATED, FIRE RATING TO BE APPLIED TO BOTH DOOR AND FRAME CONSTRUCTION - ALL DOORS.
- 3. GENERAL CONTRACTOR TO SUBMIT ALL DOOR FRAME & HARDWARE FOR ARCHITECT REVIEW AND APPROVAL - ALL DOORS.
- 4. KEYLESS ENTRY SYSTEM INCLUDES HARDWIRED ELECTRIC STRIKE AND REQUIRED POWER SUPPLY WITH COMPATIBLE EXIT DEVICE, HARDWIRED CARD READER (COUNTY KERI SYSTEM) WITH REQUIRED POWER SUPPLY TO ACTIVATE STRIKE, PANIC EXIT HARDWARE, ENTRY HARDWARE, CYLINDER FOR MANUAL RETRACTION OF LATCH, ALL REQUIRED POWER AND LOW VOLTAGE WIRING TO ALLOW FOR COMPLETE OPERATION OF LOCK.
- 5. SEE DOOR SPECIFICATION FOR DOOR HARDWARE - ALL DOORS
- 6. DOOR AND FRAME TO BE PAINTED.
- 7. DOORS, METAL FRAMES AND HARDWARE PROVIDED BY OWNER, INSTALLED BY GENERAL CONTRACTOR.
- 8. GYPSUM AROUND DOOR FRAMES TO BE REPAIRED/ SANDED AND READY TO RECEIVE PAINT - ALL DOORS.

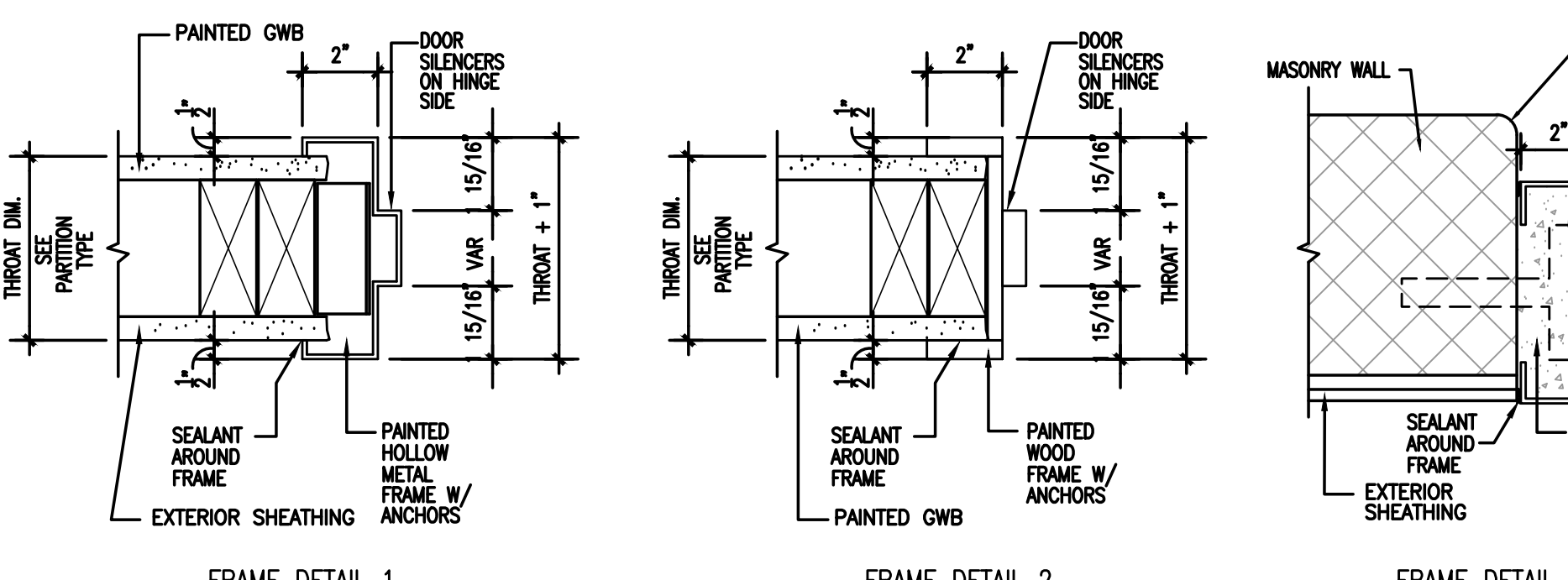


1 DOOR TYPES  
SCALE: NOT TO SCALE

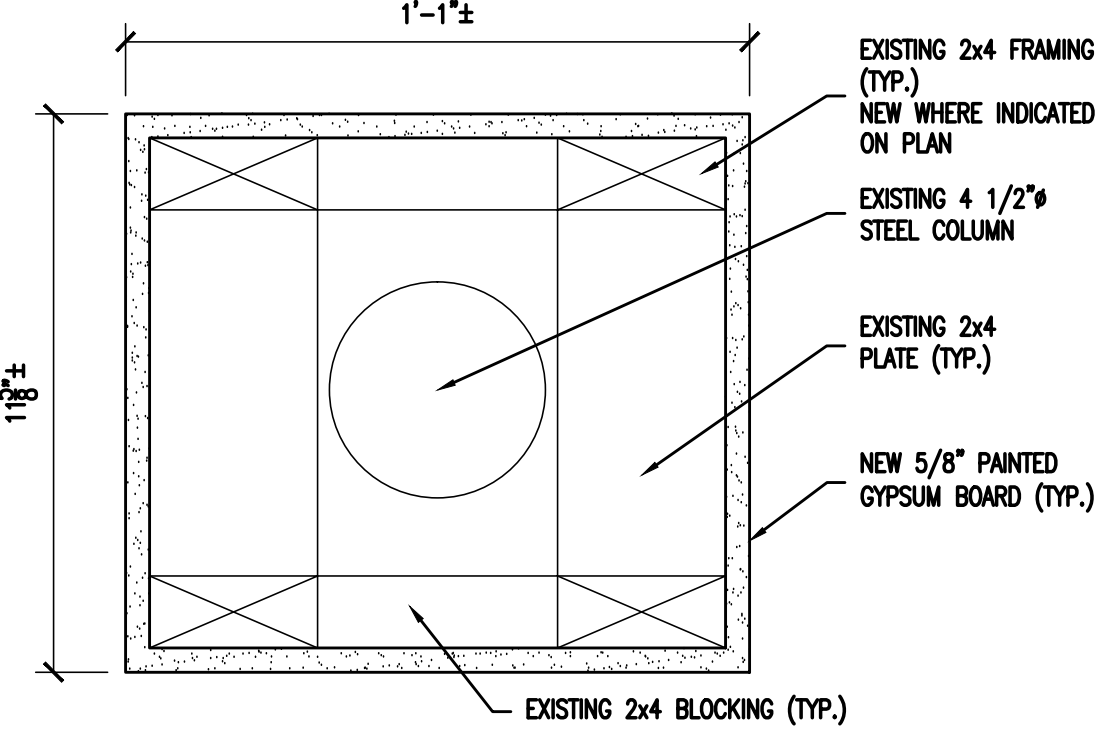
2 DOOR FRAMES  
SCALE: NOT TO SCALE



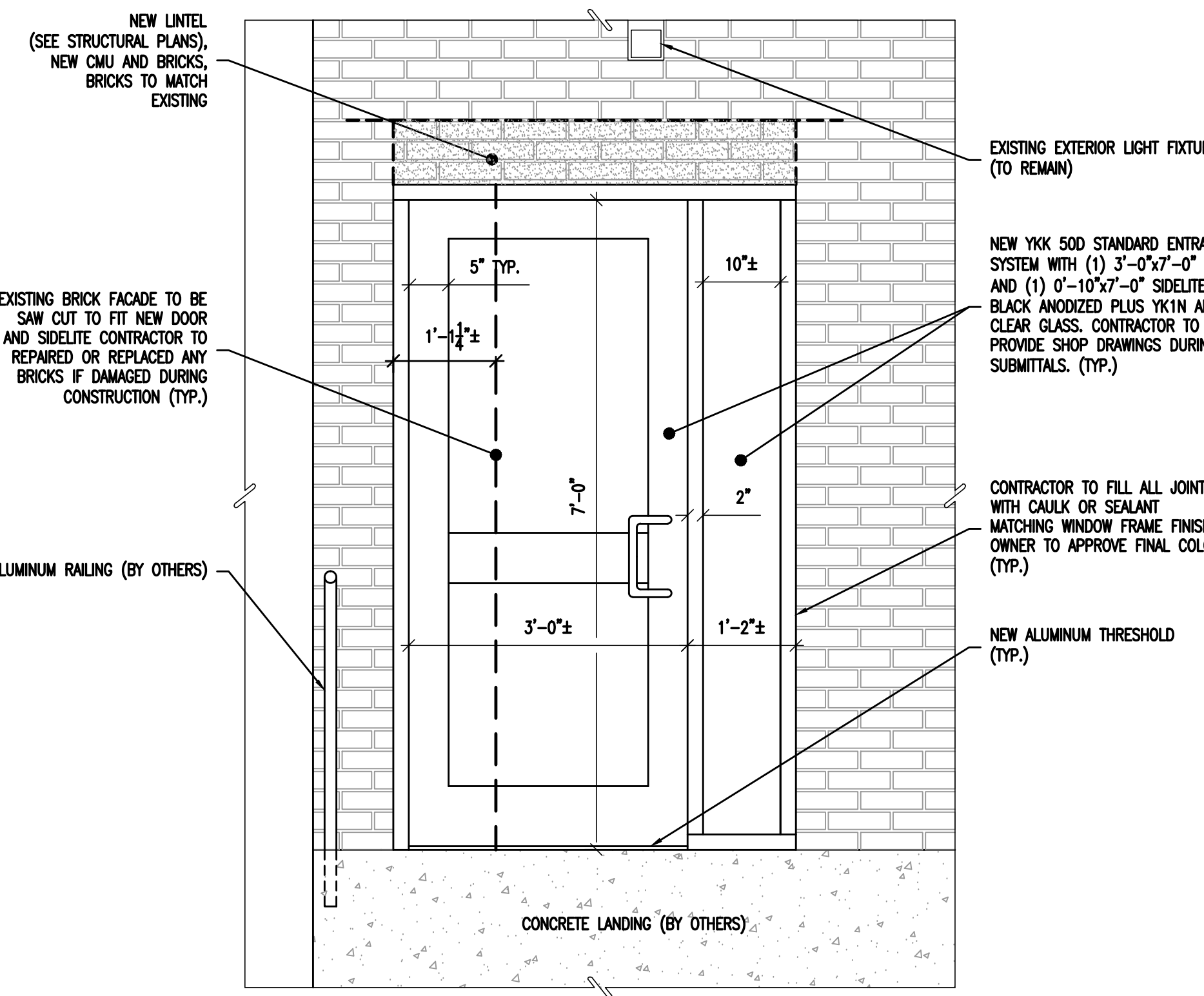
3 DOOR FRAME RETURN  
SCALE: NOT TO SCALE



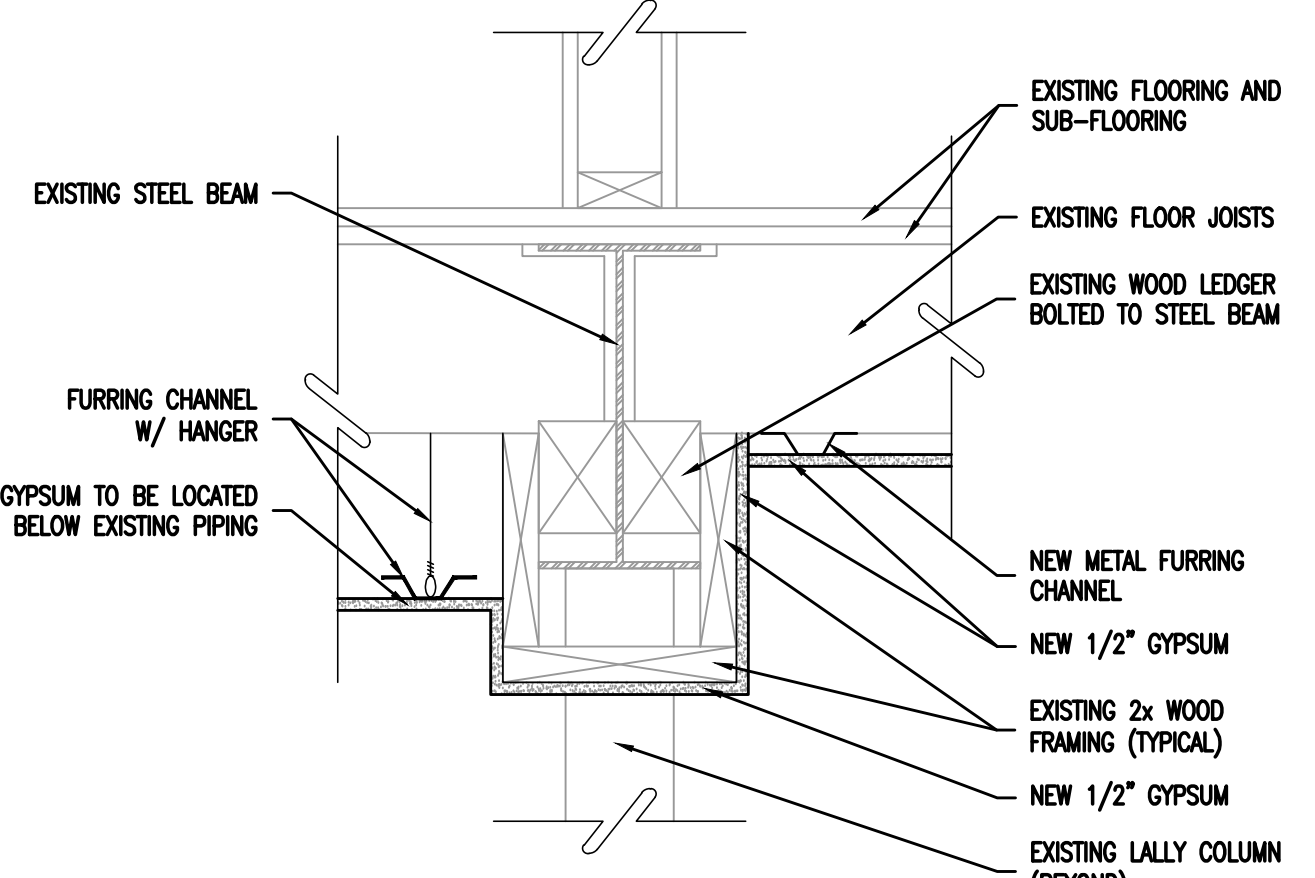
FRAME DETAILS  
SCALE: NOT TO SCALE



STEEL COLUMN DETAIL  
SCALE: NOT TO SCALE



6 MAIN ENTRANCE DOOR - ELEVATION  
SCALE: 3/4" - 1'-0"



HEADER DETAIL  
SCALE: NOT TO SCALE



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NY REGISTERED ARCHITECT No. 029608-1  
CT REGISTERED ARCHITECT No. ARI10403  
MD REGISTERED ARCHITECT No. 14068  
DC REGISTERED ARCHITECT No. ARC102373

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

**CAMDEN COUNTY  
RENOVATION & MODERNIZATION  
REGAN BUILDING**  
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CAMDEN COUNTY, NEW JERSEY

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REVISIONS		
NO.	DESCRIPTION	DATE

**DOOR SCHEDULE  
AND DETAILS**  
JOB NO: CCAZ020-02  
DESIGNED BY: DMS/AHW/RW/DMG  
DATE: OCTOBER 19, 2020  
DRAWN BY: DMS/AHW/AW  
SCALE: AS NOTED  
CHECKED BY: SMB/DMS/AHW  
DRAWING NUMBER:



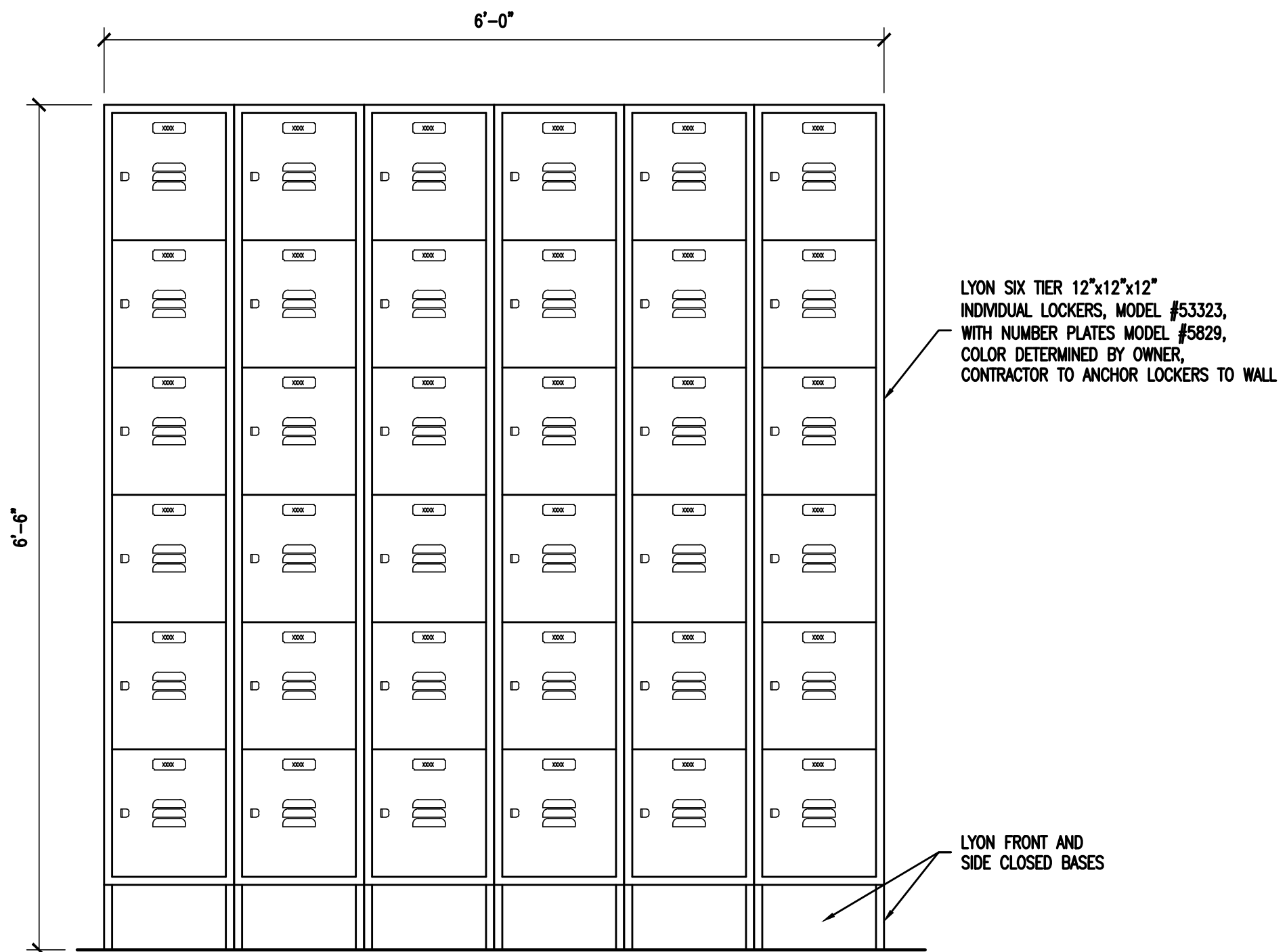
## ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	WALLS				CEILING	CEILING HEIGHT	REMARKS
				NORTH	EAST	SOUTH	WEST			
<b>BASEMENT</b>										
001	COMMUNITY / DINING SPACE	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	VARIABLES	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
002	BOILER ROOM	EXISTING	---	PAINT	PAINT	PAINT	PAINT	PAINT	EXISTING	SEE NOTES
003	STORAGE ROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
004	ELEVATOR MACHINE ROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTES
005	OPEN SPACE	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	VARIABLES	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
006	CORRIDOR	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	7'-6"	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
007	STORAGE ROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
008	PROGRAM SPACE	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
009	LAUNDRY ROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
010	JANITORS CLOSET	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
011	STAIRWELL	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	VARIABLES	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
012	KITCHEN	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
013	TOILET ROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	7'-6"	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
014	TOILET ROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	7'-6"	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
015	HVAC CLOSET	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
016	HVAC CLOSET	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
<b>FIRST FLOOR</b>										
100	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
101	PROGRAM SPACE	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
102	PROGRAM OPERATIONS SPACE	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
103	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
104	SERVER ROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
105	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
106	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
107	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
108	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
109	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
110	CORRIDOR	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
111	LOBBY / SECURITY CHECK IN	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
112	ADMINISTRATIVE SPACE	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
113	TOILET ROOM	PT/GWB	PT/GWB	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
113A	SHOWER ROOM	PT	PT	PT	PT	PT	PT	PT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
114	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
115	ADMINISTRATIVE SPACE	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
116	STAIRWELL	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
117	ADMINISTRATIVE SPACE	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
118	BATH ROOM	PT	PT	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
119	JANITORS CLOSET	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
120	TOILET ROOM	PT/GWB	PT/GWB	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
120A	SHOWER ROOM	PT	PT	PT	PT	PT	PT	PT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
121	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
<b>SECOND FLOOR</b>										
200	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
201	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
202	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
203	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
204	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
205	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
206	UTILITY ROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
207	STORAGE ROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
208	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
209	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
210	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
211	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
212	ELEVATOR VESTIBULE	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
213	CORRIDOR	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
214	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
215	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
216	TOILET ROOM	PT/GWB	PT	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
216A	SHOWER ROOM	PT	PT	PT	PT	PT	PT	PT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
217	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
218	ADMINISTRATIVE OFFICE	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
219	STAIRWELL	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
220	CLOSET	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
221	ADMINISTRATIVE OFFICE	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
222	ADMINISTRATIVE OFFICE	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
223	TOILET ROOM	PT/GWB	PT	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
223A	SHOWER ROOM	PT	PT	PT	PT	PT	PT	PT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
224	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
225	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY

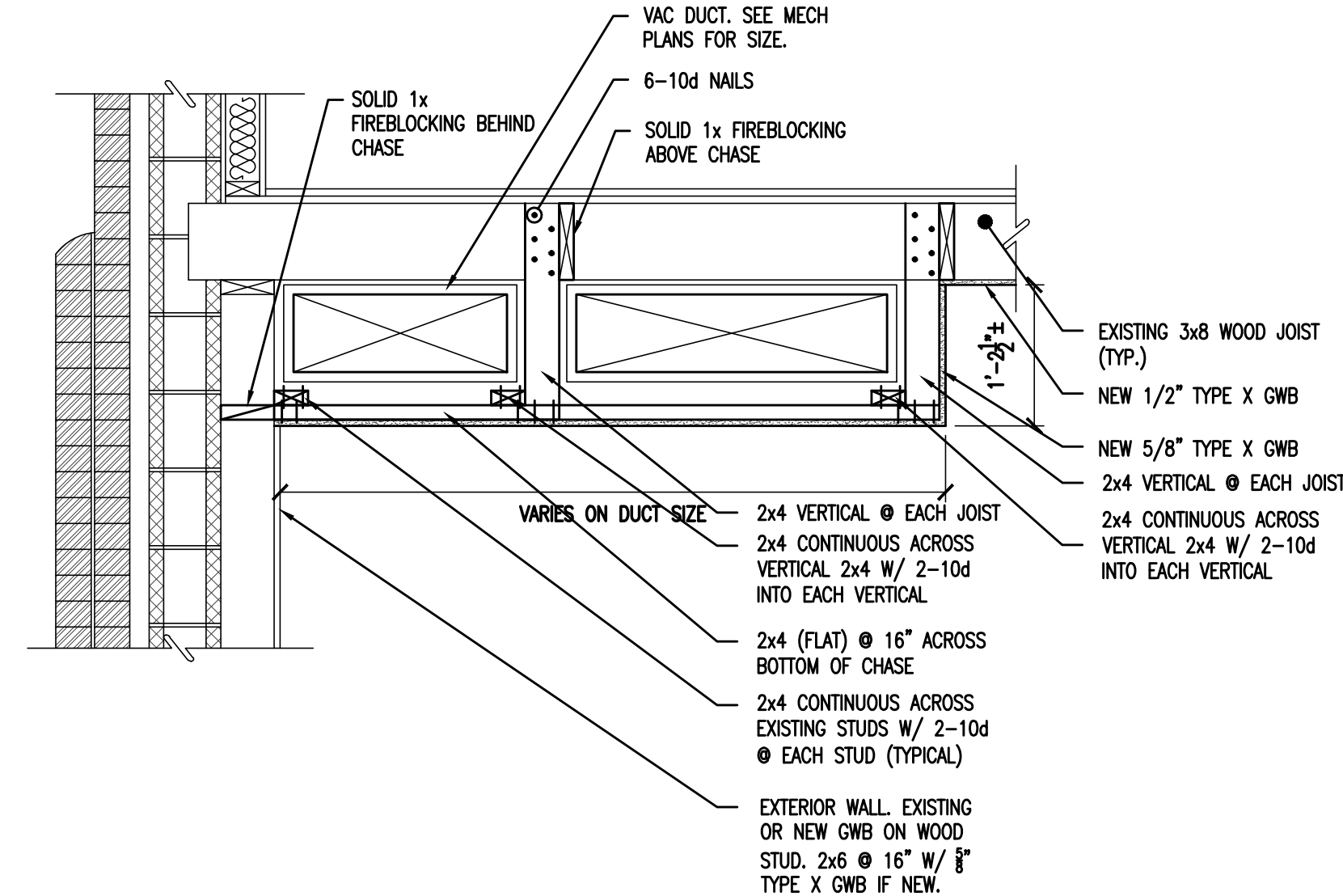
**LEGEND:**  
VCT VINYL COMPOSITION TILE RUBBER BASE  
ACT ACOUSTICAL CEILING TILE PT PORCELAIN TILE  
CPT CARPET TILE LVT LUXURY VINYL TILE  
COVE VINYL COVE BASE

**NOTE:**  
1. WALLS AND/OR CEILINGS WITH HOLES OR LARGE AREAS OF DAMAGE, CUT OUT AND REPLACE DAMAGED GYPSUM, SPACKLE AND SAND SMOOTH, READY TO RECEIVE PAINT.  
2. WALLS AND/OR CEILINGS WITH DENTED, PEELING, STAINED, SMALL HOLES AND OTHER RELATED GYPSUM DAMAGE TO BE REPAIRED, SPACKLED AND SANDED SMOOTH, READY TO RECEIVE PAINT.  
3. REPAIR AND/OR REPLACE ANY ROTTEN / DAMAGED SUB-FRAMING.  
4. PATCH AND REPAIR ALL WALLS / CEILINGS AND FLOORING AS A RESULT OF DEMOLITION AND/OR CONSTRUCTION, MATCH ADJACENT MATERIALS.  
5. NEW GYPSUM ON WALLS AND CEILINGS.  
6. NEW GYPSUM ON CEILINGS.  
7. EXISTING GYPSUM ON WALLS AND CEILINGS.  
8. EXISTING GYPSUM ON WALLS AND CEILINGS.

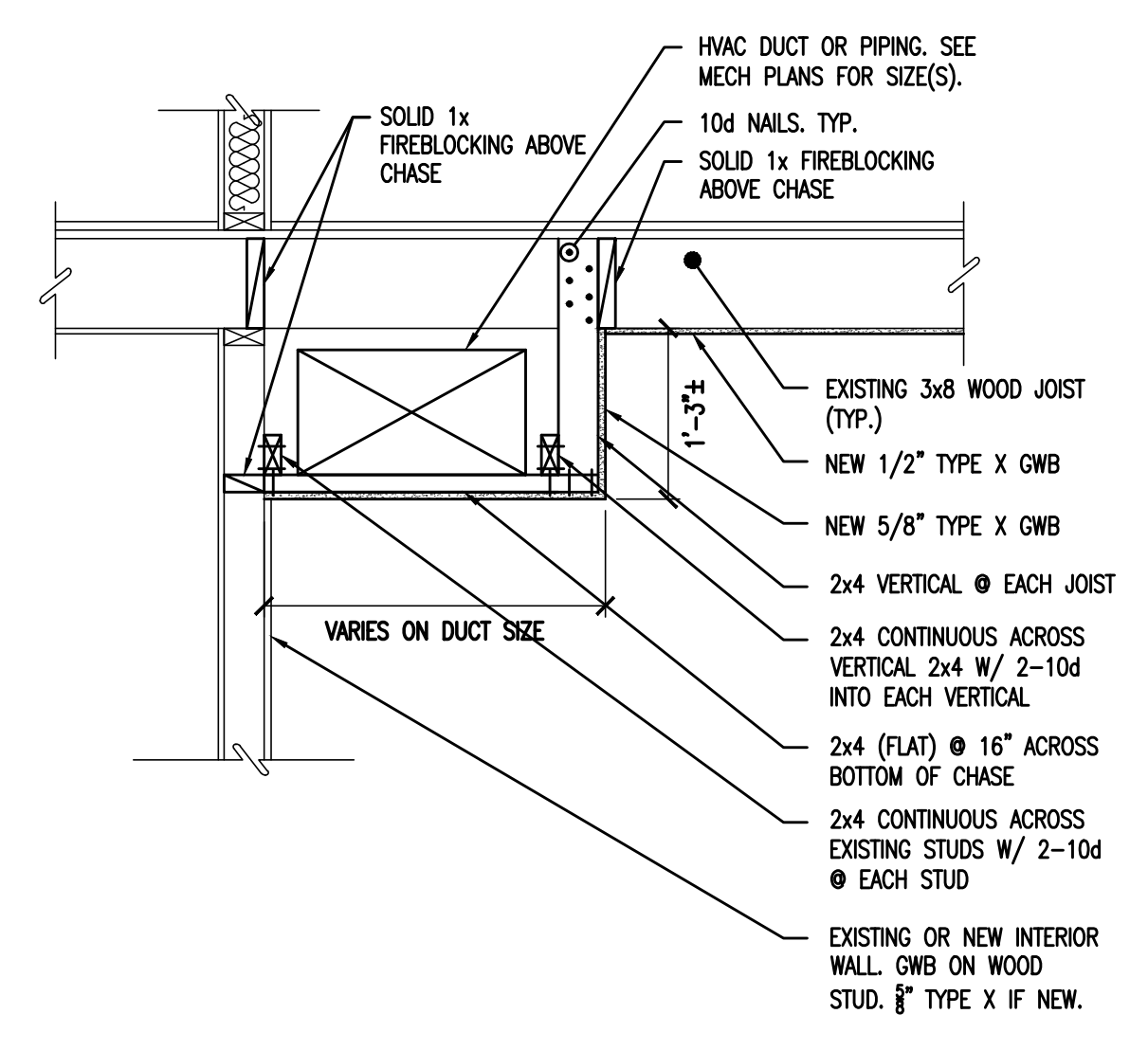
**ALL ROOMS WITH LVT, VCT AND COVE BASE - NOT IN CONTRACT**



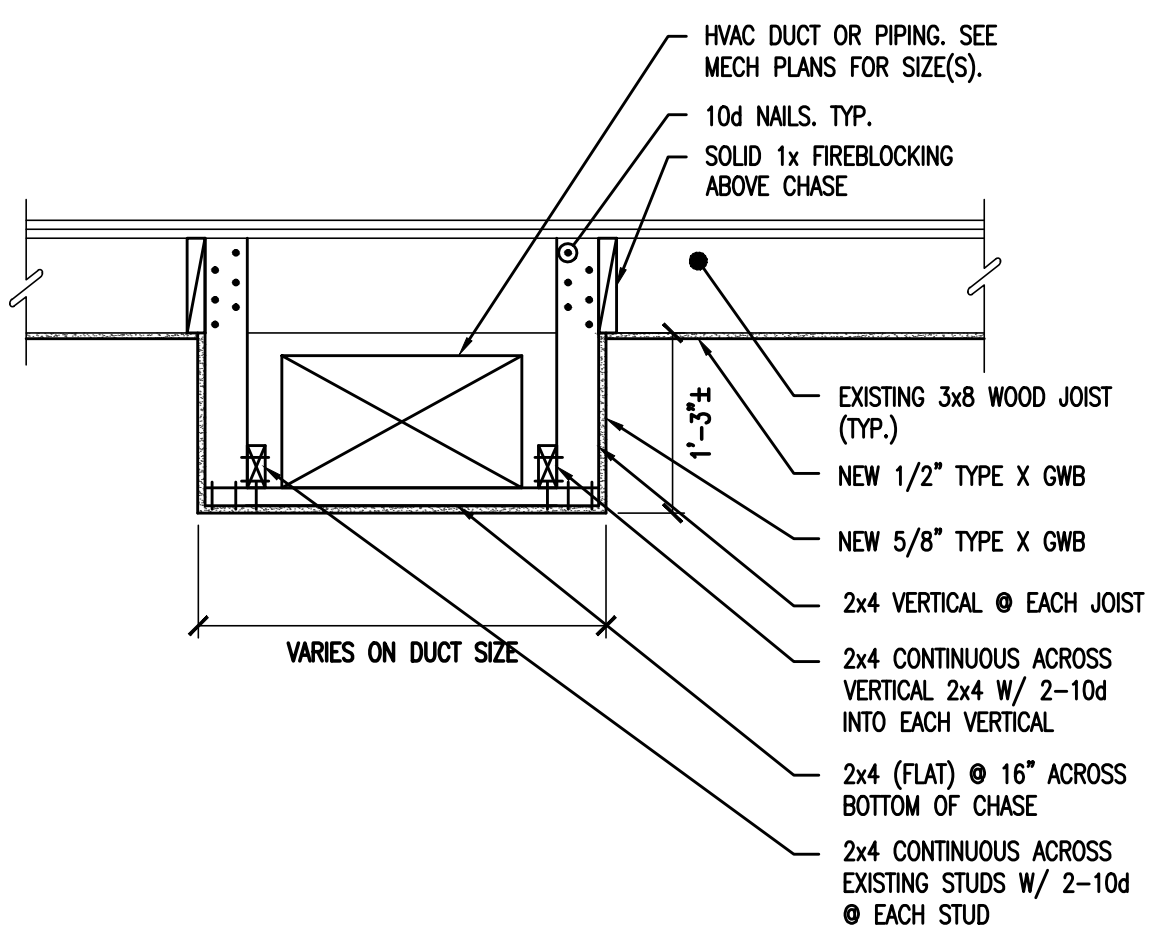
**1 LOCKER ELEVATION**  
SCALE: NOT TO SCALE



**2 SECTION - HVAC SOFFIT @ EXTERIOR WALL**  
SCALE: NOT TO SCALE



**3 SECTION - HVAC SOFFIT @ INTERIOR PARTITION**  
SCALE: NOT TO SCALE



**SECTION - HVAC SOFFIT @ INTERIOR CEILING**  
SCALE: NOT TO SCALE



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**DIRK MUIJS III, AIA**  
NJ REGISTERED ARCHITECT No. AI 15840  
PA REGISTERED ARCHITECT No. 402435  
DE REGISTERED ARCHITECT No. SS-0007528  
NY REGISTERED ARCHITECT No. 0296008-1  
CT REGISTERED ARCHITECT No. AR110403  
MD REGISTERED ARCHITECT No. 14068  
DC REGISTERED ARCHITECT No. ARC102373

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

PROJECT:

**CAMDEN COUNTY RENOVATION & MODERNIZATION REGAN BUILDING**  
508 LAKELAND ROAD  
BLACKWOOD, NEW JERSEY 08012  
CAMDEN COUNTY, NEW JERSEY

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REVISIONS		
NO.	DESCRIPTION	DATE

**ROOM SCHEDULE AND DETAILS**

JOB NO: CCJAZ020-02	DESIGNED BY: DMS/AAM/RH/DWG
DATE: OCTOBER 19, 2020	DRAWN BY: DMS/AAM/AAM
SCALE: AS NOTED	CHECKED BY: SMB/DMS/AAM

DRAWING NUMBER:

A-11



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SEALS:

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NJ REGISTERED ARCHITECT No. AI 15840  
PA REGISTERED ARCHITECT No. 402435  
DE REGISTERED ARCHITECT No. S5-0007528  
NY REGISTERED ARCHITECT No. 029608-1  
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ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

PROJECT:

**CAMDEN COUNTY  
RENOVATION & MODERNIZATION  
REGAN BUILDING**  
508 LAKE LAND ROAD  
BLACKWOOD, NEW JERSEY 08012  
CAMDEN COUNTY, NEW JERSEY

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REVISIONS

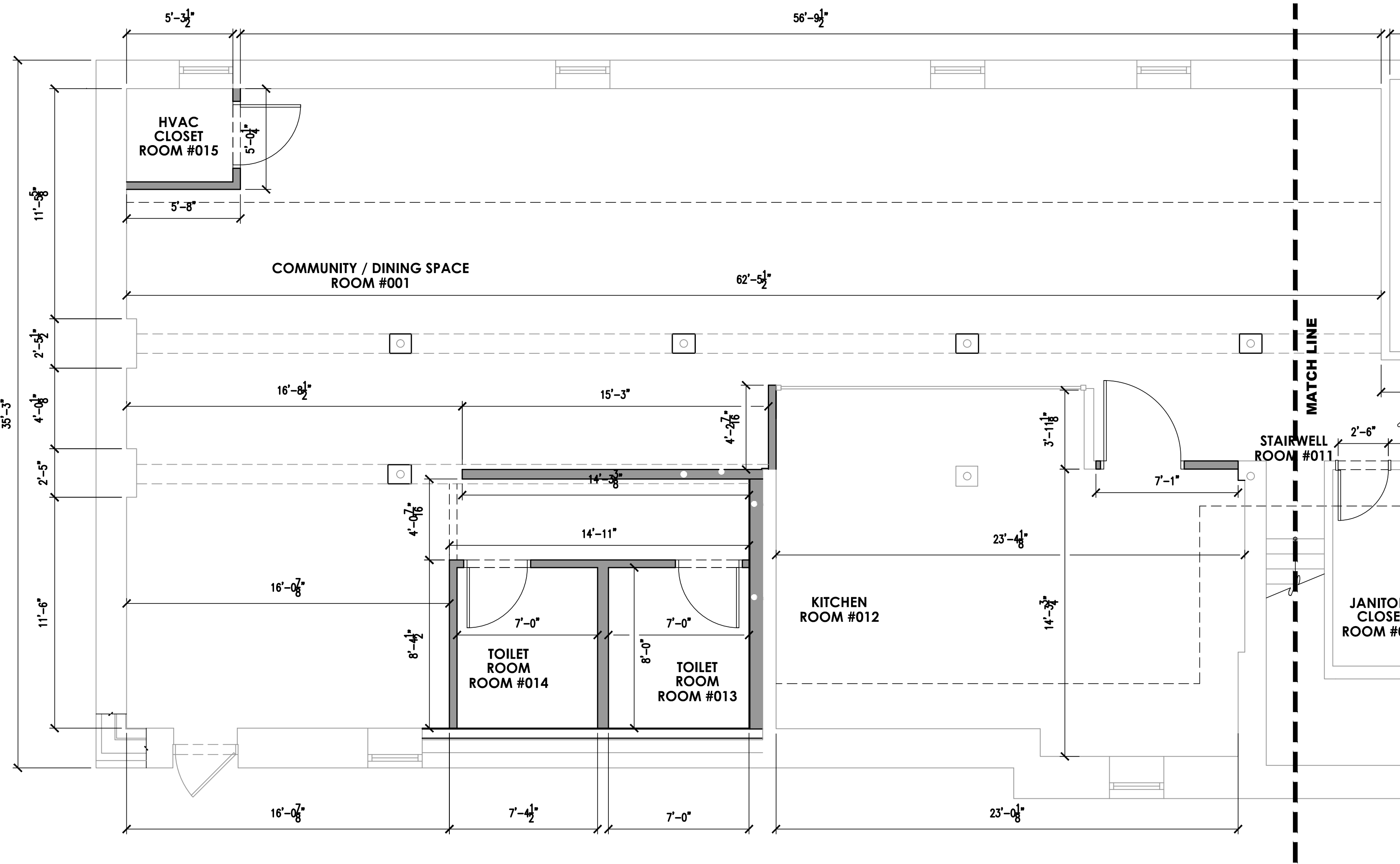
NO.	DESCRIPTION	DATE

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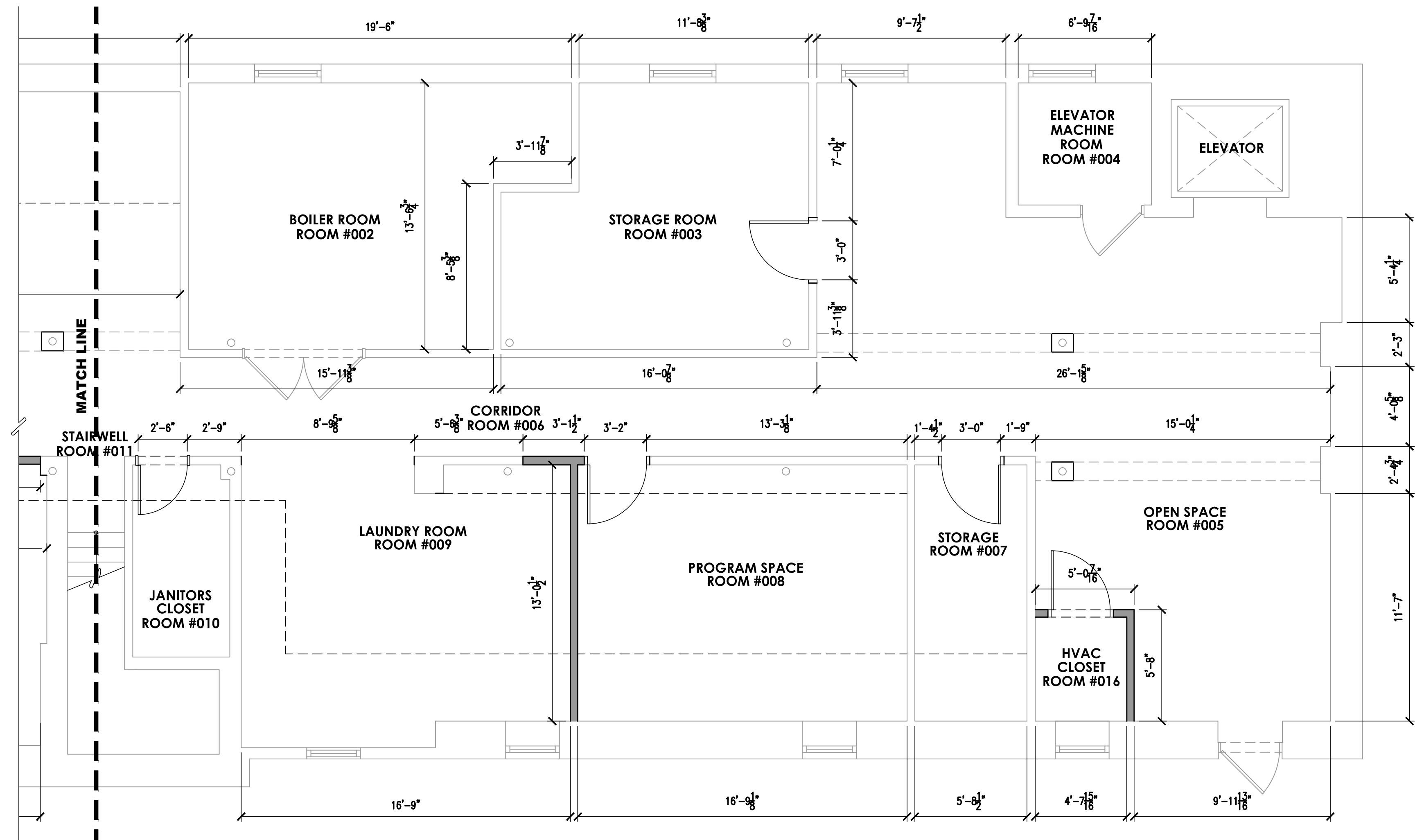
**BASEMENT DIMENSIONS PLAN**

JOB NO: COA2020-02	DESIGNED BY: DMS/AHW/RH/DWG
DATE: OCTOBER 19, 2020	DRAWN BY: DMS/AHW/AW
SCALE: AS NOTED	CHECKED BY: SMB/DMS/AHW
DRAWING NUMBER:	

**A-12**



**1 PARTIAL BASEMENT MEASUREMENT PLAN**  
SCALE: 1/4" = 1'-0"



**2 PARTIAL BASEMENT MEASUREMENT PLAN**  
SCALE: 1/4" = 1'-0"

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SEALS:

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MD REGISTERED ARCHITECT No. 14068  
DC REGISTERED ARCHITECT No. ARC102373

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PROJECT:

**CAMDEN COUNTY  
RENOVATION & MODERNIZATION  
REGAN BUILDING**  
508 LAKELAND ROAD  
BLACKWOOD, NEW JERSEY 08012  
CAMDEN COUNTY, NEW JERSEY

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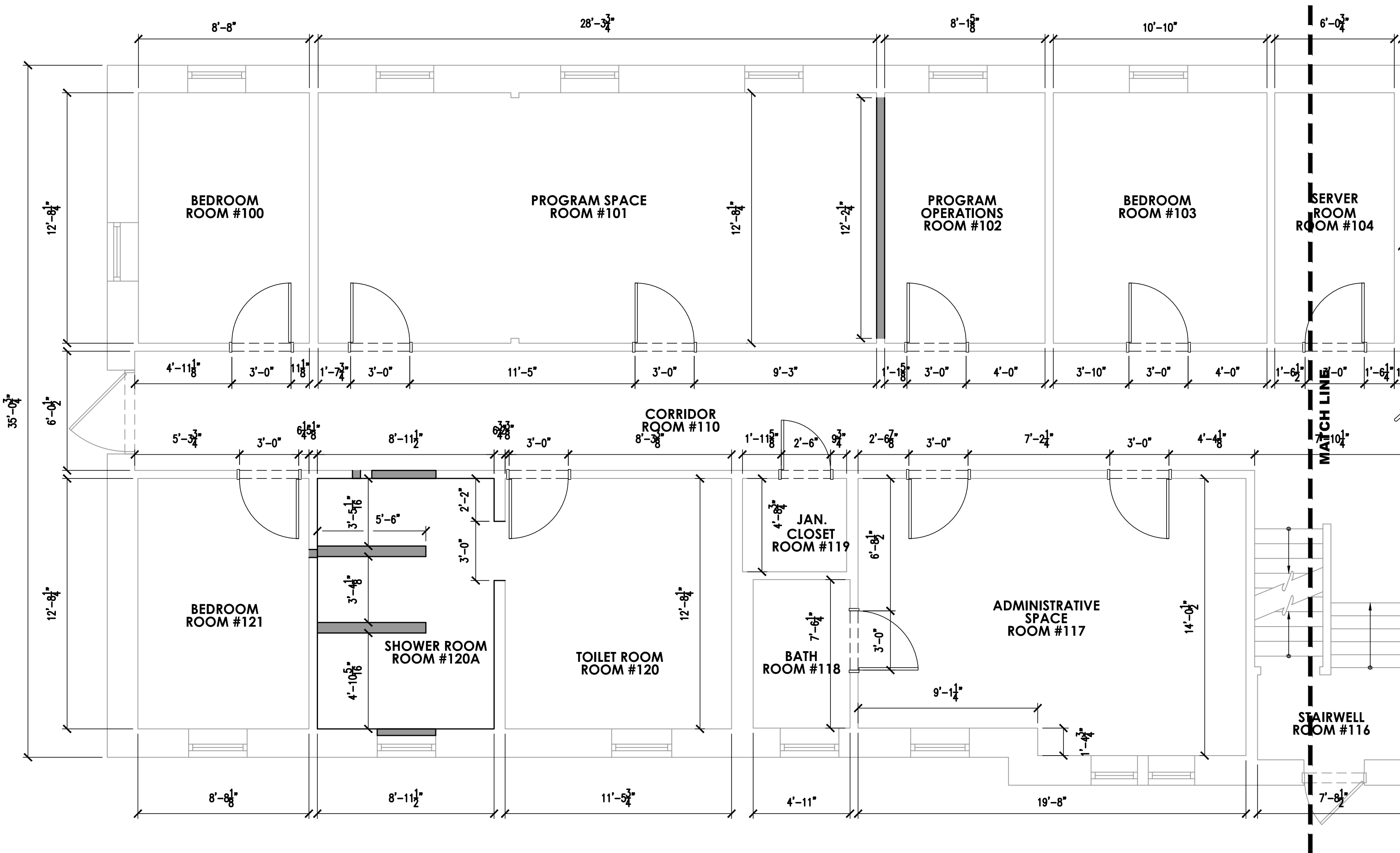
REVISIONS

NO.	DESCRIPTION	DATE

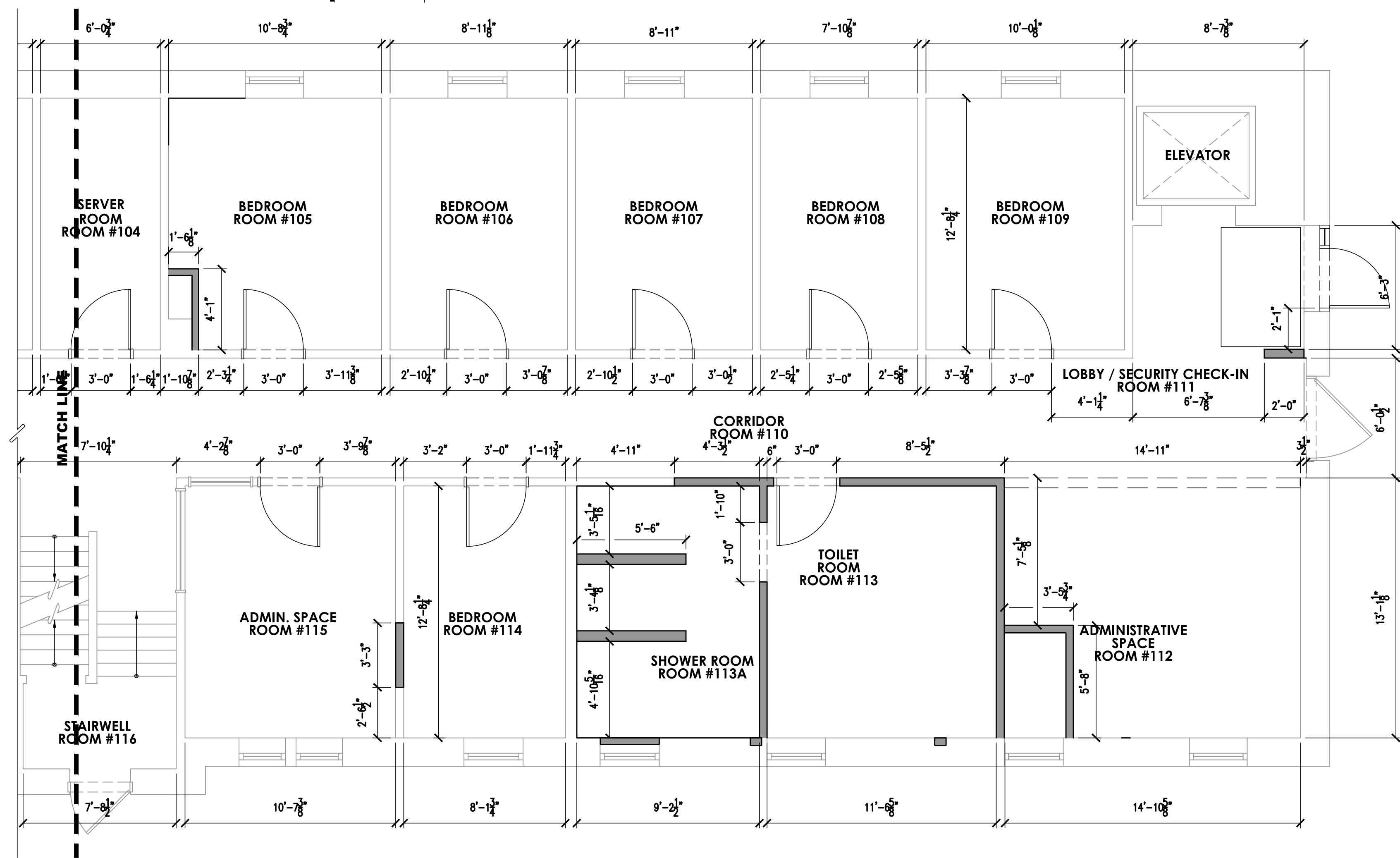
DRAWING TITLE:  
**FIRST FLOOR  
DIMENSIONS  
PLAN**

JOB NO: CC02020-02	DESIGNED BY: DMS/AHW/RH/DWG
DATE: OCTOBER 19, 2020	DRAWN BY: DMS/AHW/AW
SCALE: AS NOTED	CHECKED BY: SMB/DMS/AHW
DRAWING NUMBER:	

**A-13**



**1 PARTIAL FIRST FLOOR MEASUREMENT PLAN**  
SCALE: 1/4" = 1'-0"



**2 PARTIAL FIRST FLOOR MEASUREMENT PLAN**  
SCALE: 1/4" = 1'-0"

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SEALS:

**DIRK MUI TS III, AIA**

NJ REGISTERED ARCHITECT No. AI 15840  
PA REGISTERED ARCHITECT No. 402435  
DE REGISTERED ARCHITECT No. SS-0007528  
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REGAN BUILDING**

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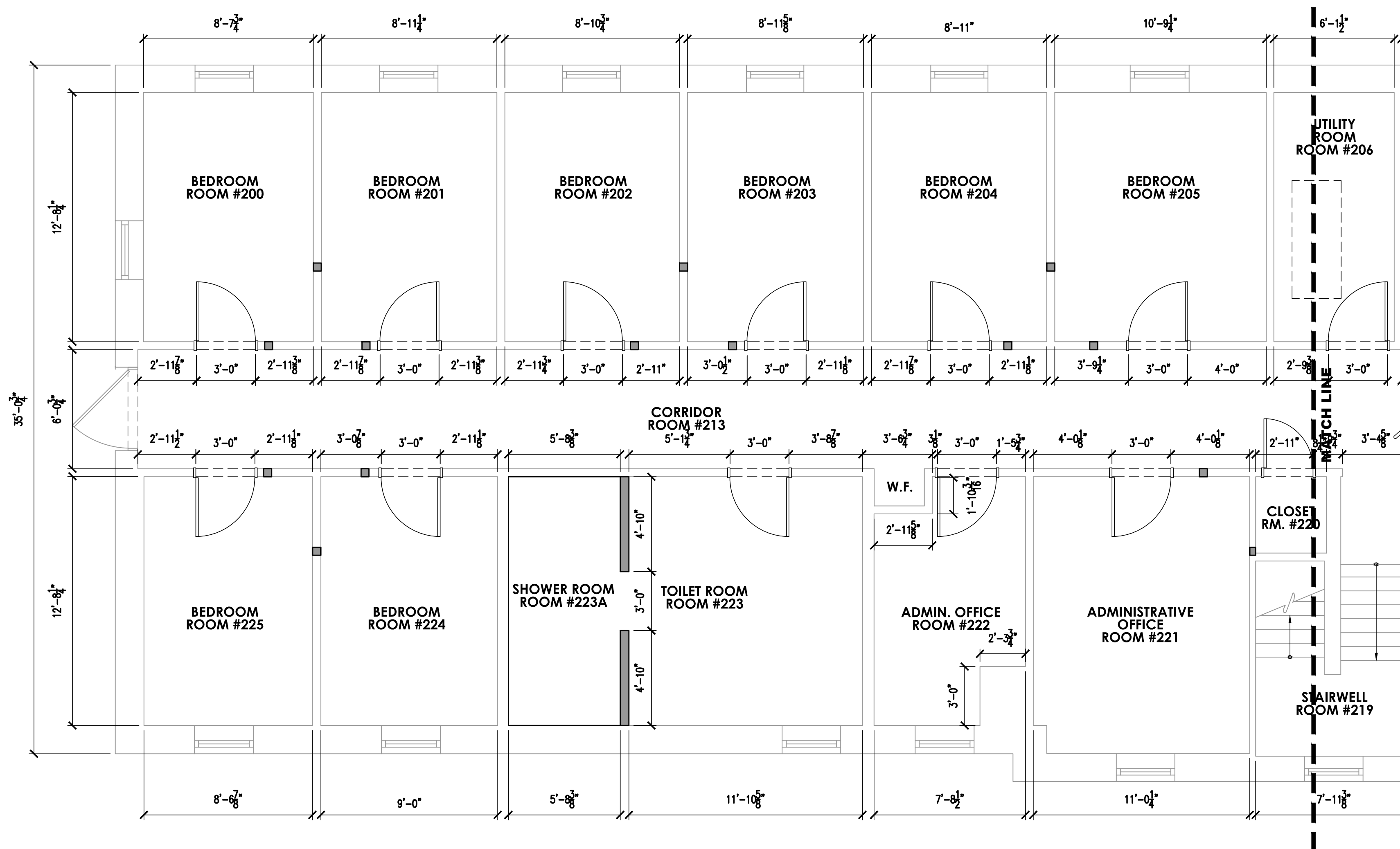
REVISIONS

NO.	DESCRIPTION	DATE

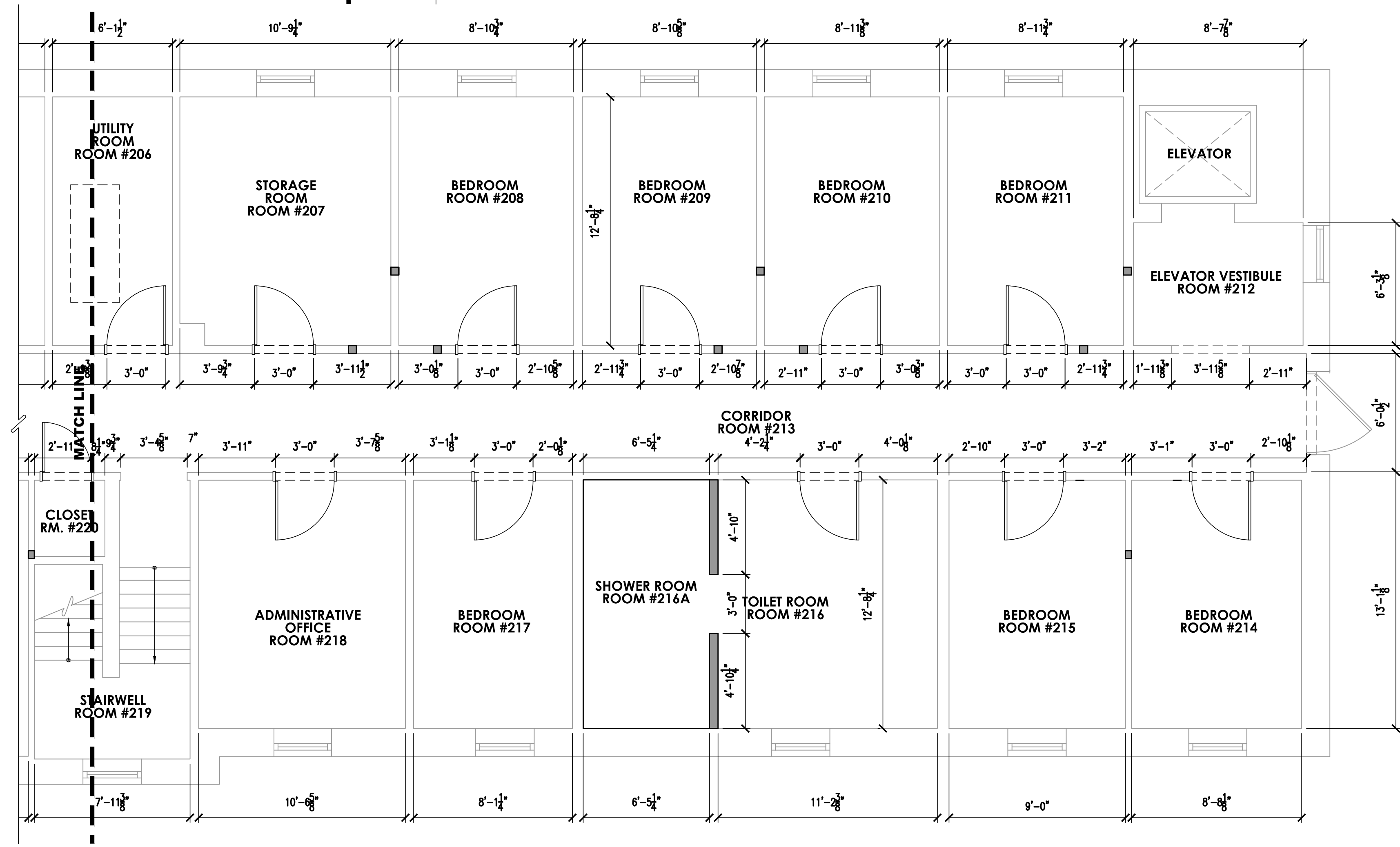
**DRAWING TITLE:  
SECOND FLOOR  
DIMENSIONS  
PLAN**

JOB NO: C0A2020-02	DESIGNED BY: DMS/AHW/RH/DWG
DATE: OCTOBER 19, 2020	DRAWN BY: DMS/AHW/AW
SCALE: AS NOTED	CHECKED BY: SMB/DMS/AHW
DRAWING NUMBER:	

**A-14**



**1 PARTIAL SECOND FLOOR MEASUREMENT PLAN**  
SCALE: 1/4" = 1'-0"



**2 PARTIAL SECOND FLOOR MEASUREMENT PLAN**  
SCALE: 1/4" = 1'-0"

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**GENERAL**

- STRUCTURAL NOTES ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. FOR INCONSISTENCIES BETWEEN STRUCTURAL DRAWINGS, THE SPECIFICATIONS, AND ANY CODE OF STANDARD PRACTICE, THE STRICTER REQUIREMENT SHALL APPLY, AND THE ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- STRUCTURAL CONSTRUCTION DOCUMENTS SHALL BE USED WITH OTHER CONSTRUCTION DOCUMENTS, INCLUDING ARCHITECTURAL, M/E/P, AND SITE DOCUMENTS. COORDINATE WITH THESE DOCUMENTS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, CHASES, INSERTS, REGLETS, SLEEVES, DEPRESSIONS, ETC., NOT INDICATED ON THE STRUCTURAL DOCUMENTS. ALL DIMENSIONS AND CONDITIONS, EXISTING AND NEW, SHALL BE FIELD VERIFIED. THE ENGINEER SHALL BE NOTIFIED OF DISCREPANCIES PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE STABILITY AND SAFETY DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF SHEETING, SHORING, TEMPORARY BRACING, GUYS, AND TIEDOWNS. THE CONTRACTOR SHALL PROVIDE SHORING AND BRACING NECESSARY TO PROTECT EXISTING AND ADJACENT STRUCTURES.
- SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DOCUMENTS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS THAT DO NOT HAVE A SPECIFIC SECTION INDICATED, AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- APPLICABLE FEDERAL, STATE AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OSHA.
- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURE. CONSTRUCTION LOADS SHALL NOT EXCEED THE SPECIFIED DESIGN LIVE LOADS. CONCRETE SLABS AND TOPPING SHALL NOT BE LOADED UNTIL THE CONCRETE HAS REACHED AT LEAST 75% OF THE SPECIFIED DESIGN COMPRESSIVE STRENGTH.
- IN THE ABSENCE OF SPECIFIC INSTRUCTIONS TO THE CONTRARY IN THE CONTRACT DOCUMENTS, THE TRADE PRACTICES THAT ARE DEFINED IN ANY CODE OF STANDARD PRACTICE SHALL GOVERN.

**STRUCTURAL DESIGN CRITERIA**

- DESIGN LOADS ARE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE/2015, NEW JERSEY EDITION. BUILDING OCCUPANCY CATEGORY II
- LIVE LOADS ARE AS FOLLOWS. LIVE LOAD REDUCTIONS HAVE BEEN TAKEN WHERE APPLICABLE, UNO.
 

ROOF LIVE LOAD	30 PSF
STAIRS	100 PSF
CORRIDORS	80 PSF
STAIRS	100 PSF
BEDROOMS	40 PSF
CAT WALK	60 PSF

**CONCRETE**

- CONCRETE SHALL BE NORMAL WEIGHT HAVING A MINIMUM 28 DAY DESIGN COMPRESSIVE STRENGTH AS FOLLOWS:
 

SLAB-ON-GRADE (INTERIOR)	3500 PSI
SLUMP	3" +/- 1"

**CONCRETE MASONRY**

- CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", ACI 530-05, AND "SPECIFICATIONS FOR MASONRY STRUCTURES", ACI 530.1-05.
- MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY, F'M, SHALL BE 1500 PSI. (MIN NET AREA COMPRESSIVE STRENGTH OF UNIT = 1400 PSI.)
- CONCRETE MASONRY SHALL CONFORM TO ASTM C90.
- CONCRETE MASONRY REINFORCING SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60.
- GROUT SHALL CONFORM TO ASTM C476, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI. PROVIDE FINE AND COARSE GROUTS APPROPRIATE FOR SIZE OF VOID BEING FILLED. GROUT SHALL HAVE A MINIMUM SLUMP OF 8 INCHES PROVIDED BY SUFFICIENT WATER CONTENT. WATER-REDUCING ADMIXTURES ARE NOT PERMITTED.
- MORTAR SHALL CONFORM TO ASTM C270, TYPE M OR S, PCL OR MORTAR CEMENT. MASONRY CEMENT NOT PERMITTED.
- REINFORCED VOIDS, AND NON-REINFORCED VOIDS SPECIFIED TO BE GROUTED, IN CONCRETE MASONRY SHALL BE FILLED SOLID WITH GROUT IN 5 FT. MAXIMUM LIFTS. STOP POURS 1-1/2 INCHES BELOW THE BED JOINT TO FORM A KEY AT FOUR JOINTS.
- REINFORCING BARS SHALL BE TIED TO DONNELS AND HELD IN THE PROPER POSITION BY MECHANICAL TIES DESIGNED FOR THAT PURPOSE.
- REINFORCING SHALL NOT BE PLUNGED INTO WET GROUT.
- LAP DEFORMED BARS 4# DIA., UNO.
- CONCRETE MASONRY SHALL BE LAID IN RUNNING BOND, UNO.
- PROVIDE HORIZONTAL LADDER-TYPE WALL REINFORCEMENT, HOT-DIP GALVANIZED OR STAINLESS STEEL, WITH 9 GA. SIDE RODS AND 9 GA. CROSS RODS AS FOLLOWS: TYPICAL: 16 IN C/C MAX, UNO.
- ALL CMU WALLS SHALL HAVE #4@4# VERTICAL AND DONNELED TO SLABS WITH MINIMUM #4 @ 4# AND 4" EMBEDMENT
- THE TOPS OF ALL NON-LOAD BEARING CMU WALLS SHALL BE BRACED ACCORDING TO SPECIFIC SECTIONS.

**WOOD**

- STRUCTURAL LUMBER SHALL CONFORM TO ANSI/APA NDS-18, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", WITH 2018 SUPPLEMENT "DESIGN VALUES FOR WOOD CONSTRUCTION".
- STRUCTURAL LUMBER SHALL BE NO. 2 HEM FIR, VISUALLY GRADED, OR BETTER.
- HEADERS AT NON LOAD BEARING CONDITIONS SHALL BE AS FOLLOWS:
 

2X4 WALLS	OPENINGS UP TO 4'-0"	(2) 2X8 + 1/2" PLYWOOD
	OPENINGS > 4'-0" TO 6'-0"	(2) 2X10 + 1/2" PLYWOOD
	OPENINGS > 6'-0" TO 9'-0"	(2) 2X12 + 1/2" PLYWOOD
- 2X6 WALLS
 

	OPENINGS UP TO 4'-0"	(3) 2X8 + 1/2" PLYWOOD (2 LAYERS)
	OPENINGS > 4'-0" TO 6'-0"	(3) 2X10 + 1/2" PLYWOOD (2 LAYERS)
	OPENINGS > 6'-0" TO 9'-0"	(3) 2X12 + 1/2" PLYWOOD (2 LAYERS)
- PRESSURE PRESERVATIVE TREATED LUMBER SHALL BE USED IN THE BASEMENT AREA.

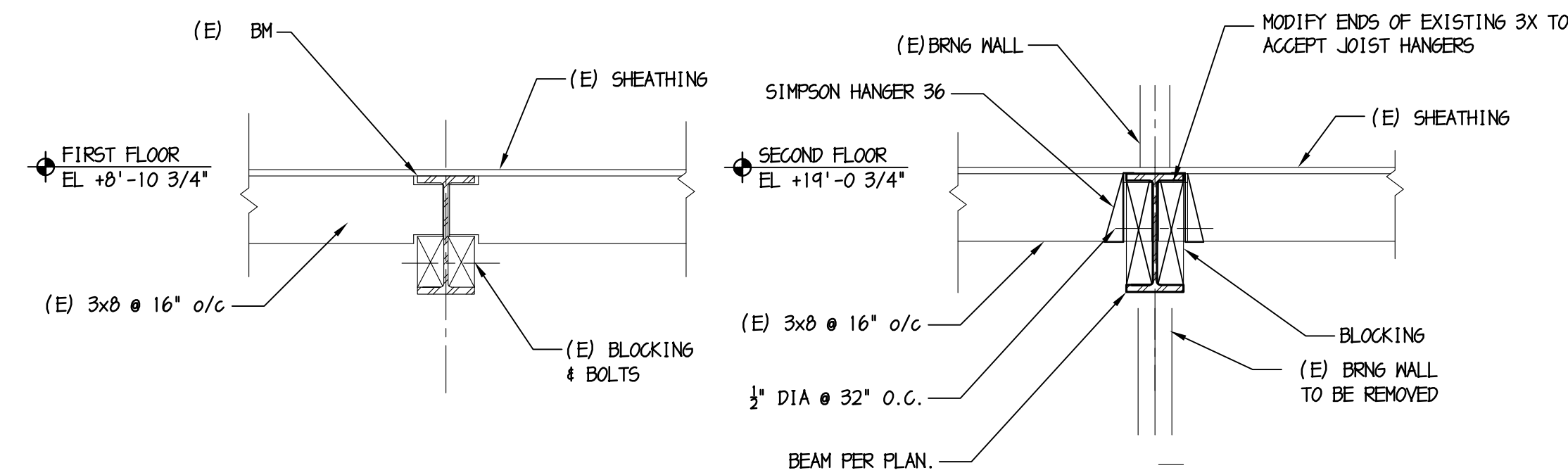
**STRUCTURAL STEEL**

- STRUCTURAL STEEL FABRICATION, ERECTION AND CONNECTION DESIGN SHALL CONFORM TO AISC'S "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, 360-16."
- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING DESIGNATIONS:
 

STRUCTURAL STEEL WF SHAPES	ASTM A992
OTHER STRUCTURAL STEEL SHAPES	ASTM A36, UNO
STEEL BARS, ANGLES AND PLATES	ASTM A36, UNO
STIFF PLATES IN MOMENT CONNECTIONS	ASTM A572, GRADE 50
ROUND PIPE	ASTM A53, TYPE E OR S
- BOLTS SHALL BE MINIMUM 3/4 IN. DIA. AND SHALL CONFORM TO THE FOLLOWING DESIGNATIONS, UNO:
 

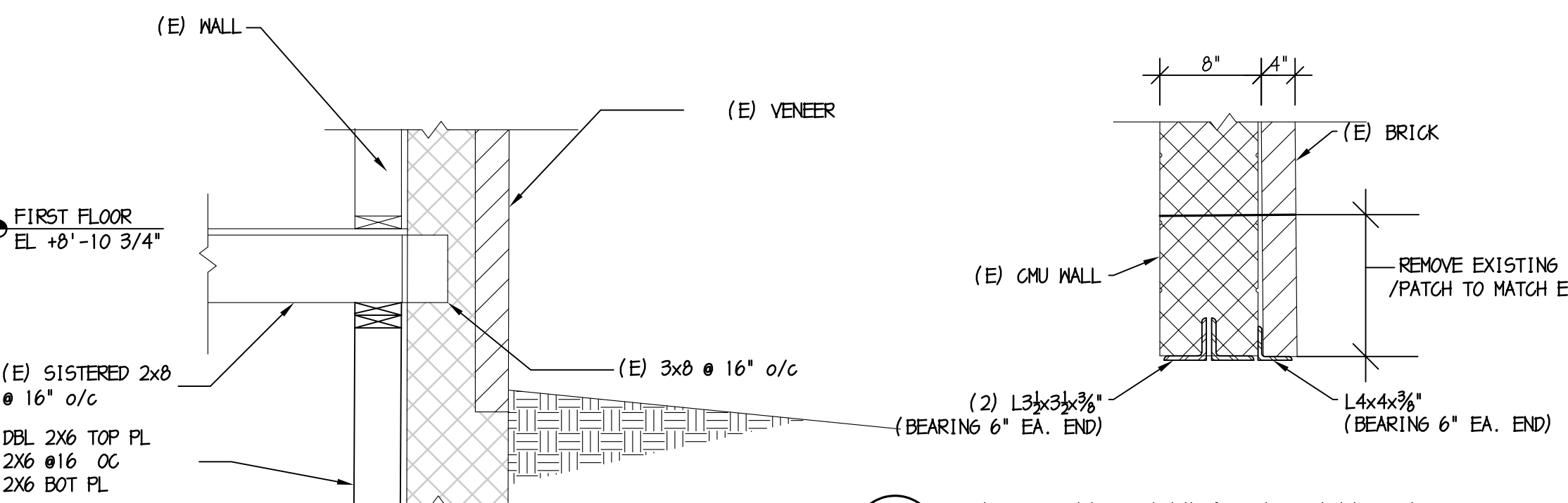
HIGH STRENGTH BOLTS	ASTM A325 [A490]
---------------------	------------------
- BOLTED CONNECTIONS SHALL CONFORM TO AISC'S "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."
- WELDING, WELDING ELECTRODES, AND FLUXES SHALL CONFORM TO AWS D1.1-11 "STRUCTURAL WELDING CODE - STEEL". ELECTRODES SHALL HAVE A MINIMUM TENSILE STRENGTH OF 70 KSI.
- HIGH STRENGTH BOLTED CONNECTIONS SHALL BE TIGHTENED TO THE SNUG-TIGHT CONDITION, UNO.
- WEB STIFFENERS SHALL BE PROVIDED IN WF SHAPES AS FOLLOWS:

- BEAM WEBS: WHERE BEAM BEARS ON COLUMN, SAME THICKNESS AND STRENGTH AS COLUMN FLANGES.
- BEAM WEBS: WHERE COLUMN BEARS ON BEAM, SAME THICKNESS AND STRENGTH AS COLUMN FLANGES.
- PRIOR TO DETAILING CONNECTIONS FOR STRUCTURAL STEEL, THE STEEL FABRICATOR SHALL SUBMIT FOR APPROVAL REPRESENTATIVE DETAILS FOR EACH TYPE OF PROPOSED STRUCTURAL CONNECTION. SUCH DETAILS SHALL INDICATE DESIGN CAPACITIES. AFTER APPROVAL, THE CONNECTIONS SHALL BE INCORPORATED INTO SHOP DRAWINGS.

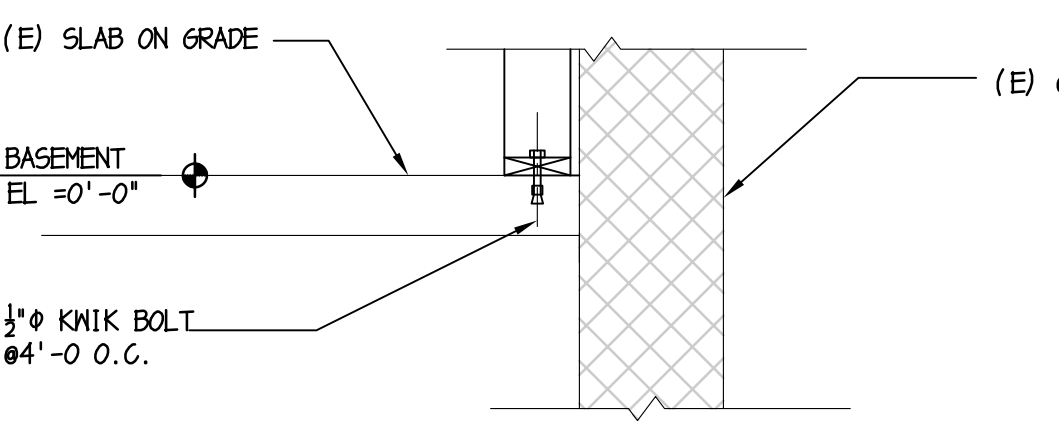


1 TYPICAL SECTION @ EXISTING FLOOR  
S1.1 SCALE: 3/4" = 1'-0"

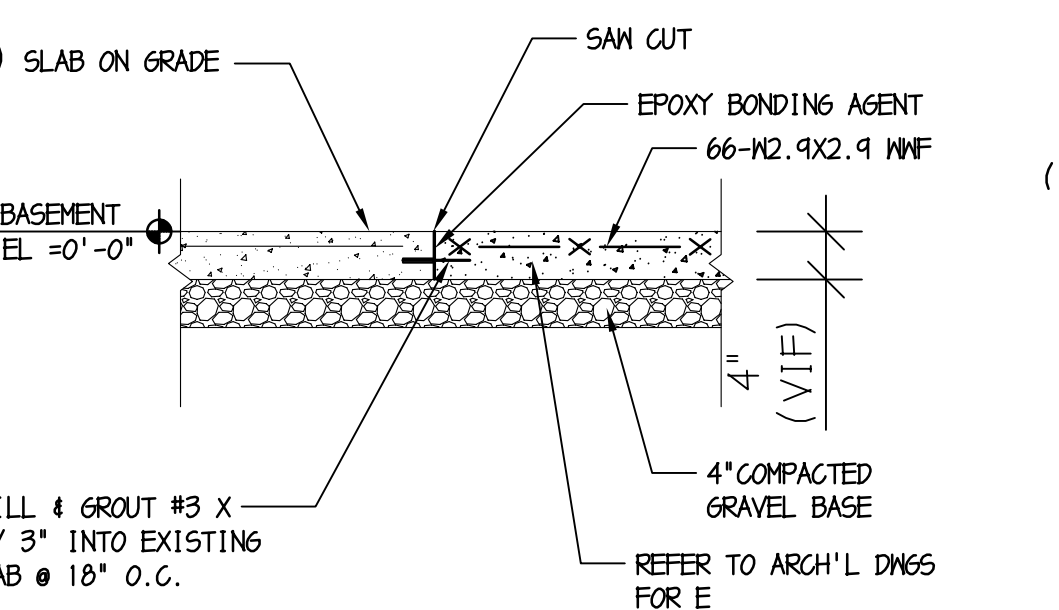
2 SECTION  
S1.1 SCALE: 3/4" = 1'-0"



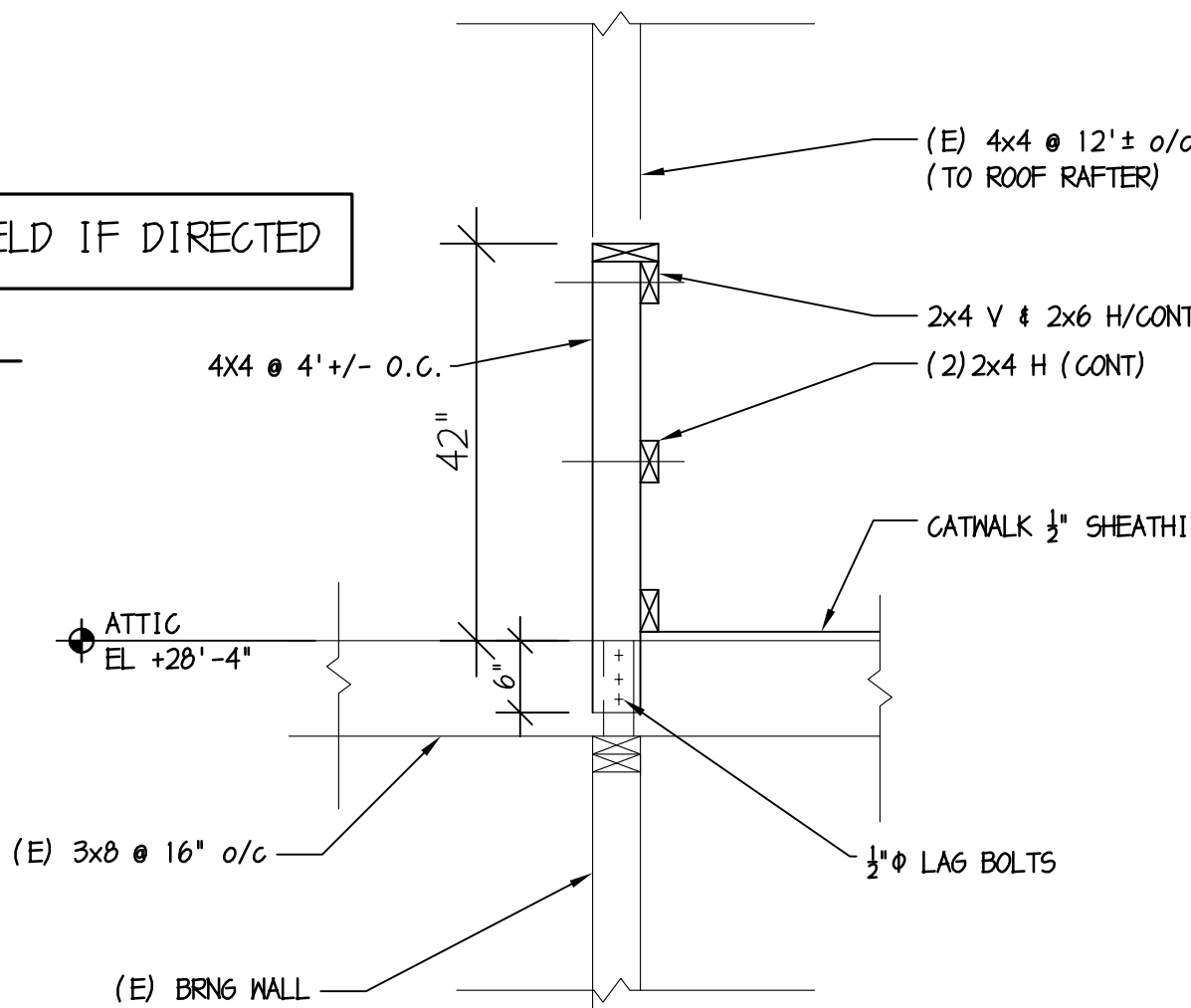
4 SECTION @ ENLARGED ENTRY DOOR  
S1.1 SCALE: 3/4" = 1'-0"



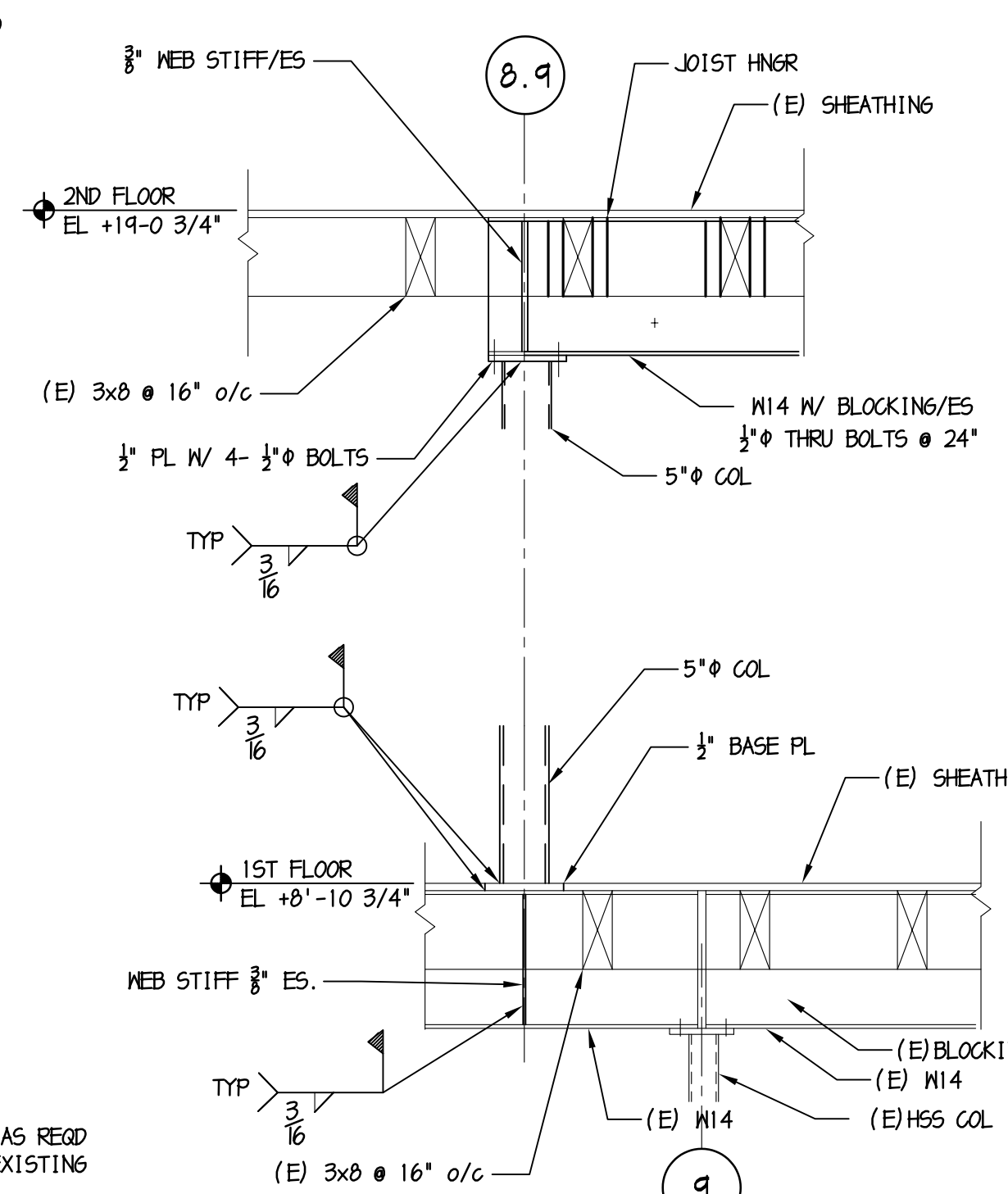
5 SECTION AT WALL REPLACEMENT  
S1.1 SCALE: 3/4" = 1'-0"



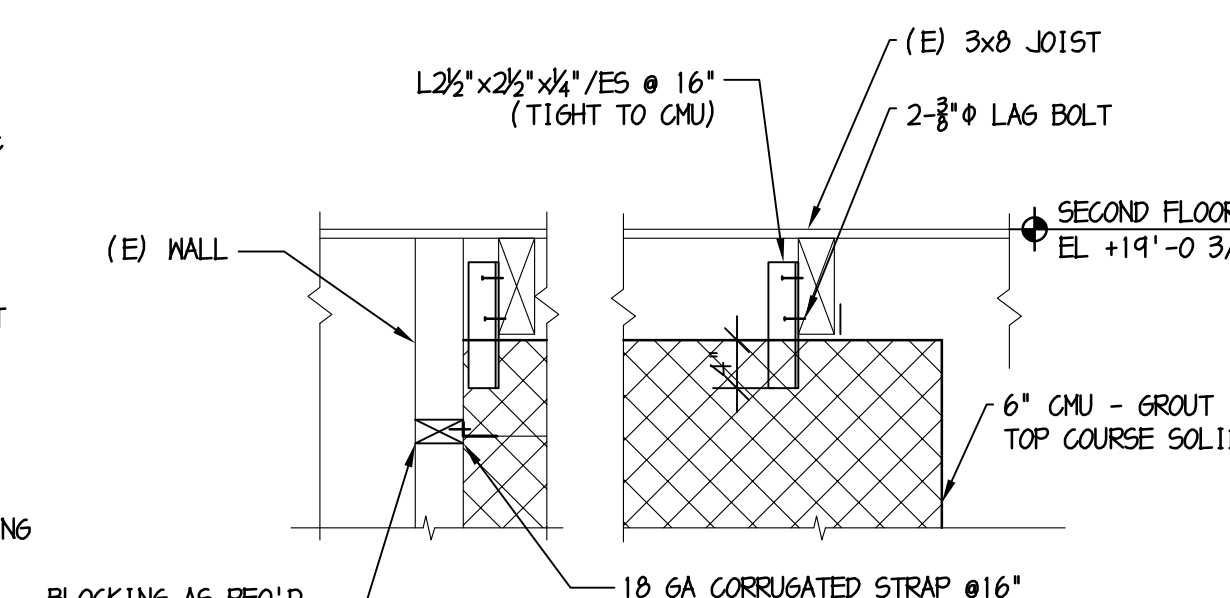
TYPICAL SLAB REPAIR DETAIL



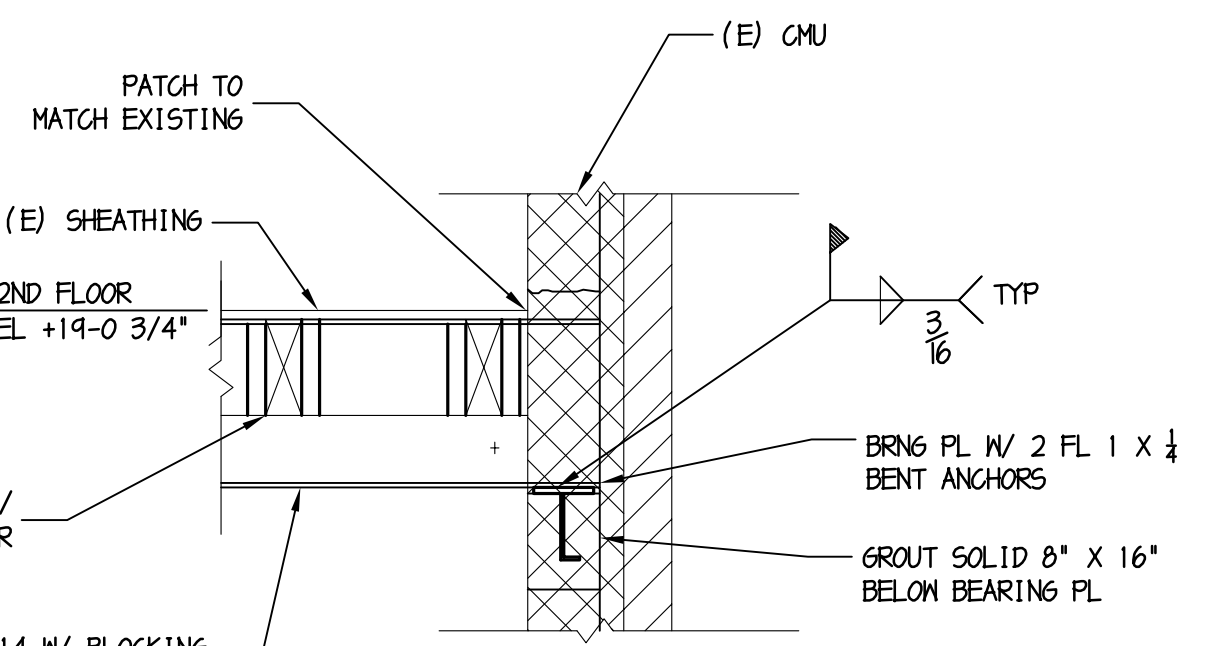
6 SECTION  
S1.1 SCALE: 3/4" = 1'-0"



3 SECTION  
S1.1 SCALE: 3/4" = 1'-0"



7 SECTION @ NEW CMU WALL  
S1.1 SCALE: 3/4" = 1'-0"



8 SECTION @ BRNG PL  
S1.1 SCALE: 3/4" = 1'-0"

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DE REGISTERED ARCHITECT No. S5-0007528  
NY REGISTERED ARCHITECT No. 029608-1  
CT REGISTERED ARCHITECT No. AR110403  
MD REGISTERED ARCHITECT No. 14068  
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REVISIONS		
NO.	DESCRIPTION	DATE

**GENERAL NOTES & DETAILS**

JOB NO: H13177-20	DESIGNED BY: AME
DATE: OCTOBER 10, 2020	DRAWN BY: GAS
SCALE: AS NOTED	CHECKED BY: AME
DRAWING NUMBER: <b>S1.1</b>	

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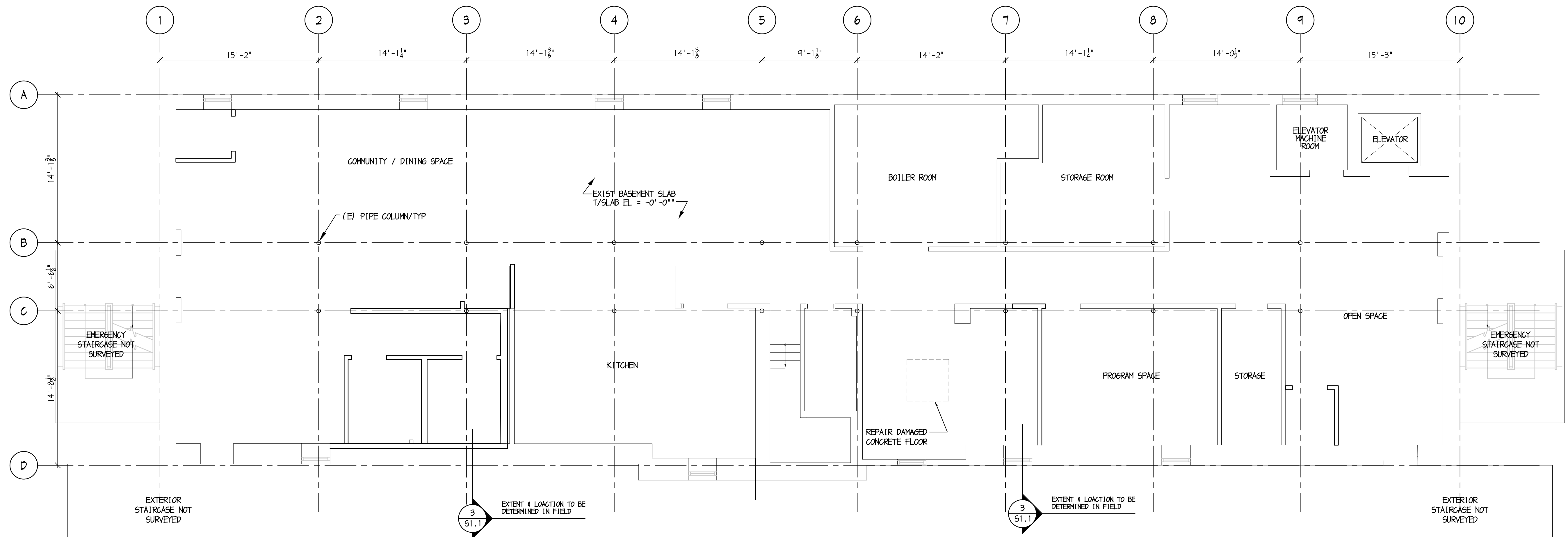
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REVISIONS		
NO.	DESCRIPTION	DATE

DRAWING TITLE:  
**FOUNDATION & FIRST FLOOR FRAMING PLAN**

JOB NO: H13177-20	DESIGNED BY: AME
DATE: OCTOBER 16, 2020	DRAWN BY: GAS
SCALE: AS NOTED	CHECKED BY: AME
DRAWING NUMBER:	

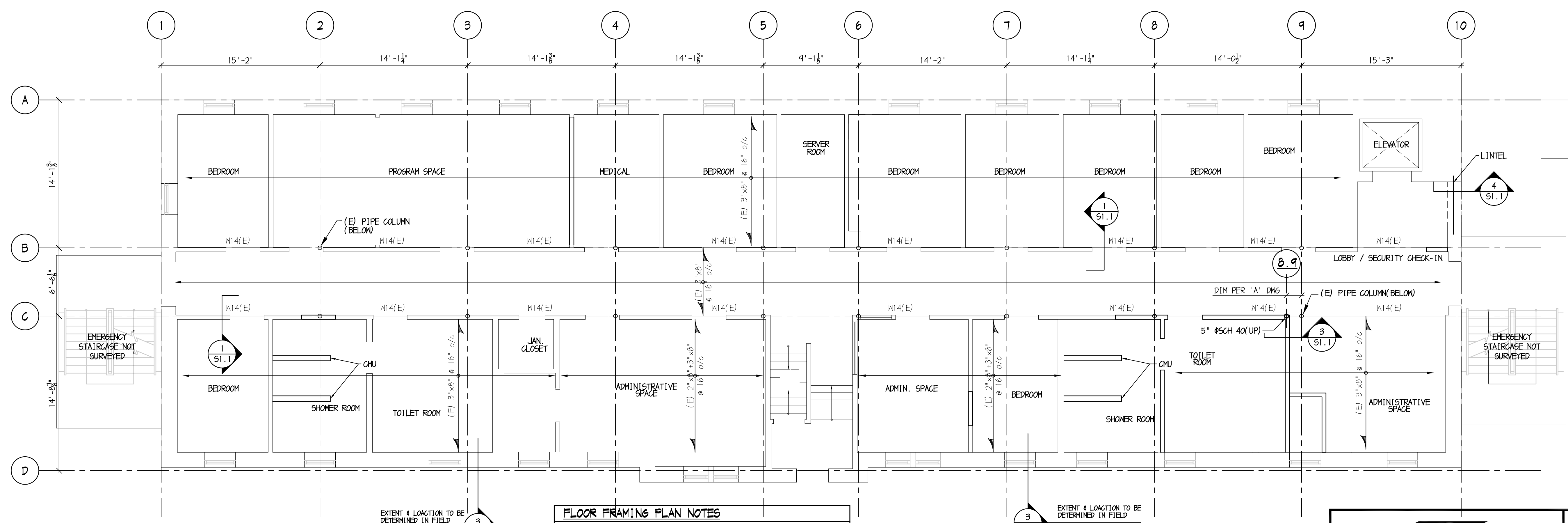
**S2.1**



**1**  
FOUNDATION & BASEMENT PLAN  
SCALE: 3/16" = 1'-0"

**FOUNDATION & BASEMENT PLAN NOTES**

- FIRST FLOOR REFERENCE ELEVATION = 0'-0" = DATUM ELEV. OF XXX.XX'.
- REFER TO STRUCTURAL NOTES ON DRAWING S1.1.
- EXISTING CONSTRUCTION SHOWN THIS \_\_\_\_\_, TO BE FIELD VERIFIED PRIOR TO DETAILING, FABRICATION AND CONSTRUCTION.



**2**  
FIRST FLOOR FRAMING PLAN  
SCALE: 3/16" = 1'-0"

**FLOOR FRAMING PLAN NOTES**

- FLOOR REFERENCE ELEVATION IS (8'-10 3/4").
- EXISTING CONSTRUCTION SHOWN THIS \_\_\_\_\_, TO BE FIELD VERIFIED PRIOR TO DETAILING, FABRICATION AND CONSTRUCTION.
- REFER TO STRUCTURAL NOTES ON DRAWINGS S1.1.

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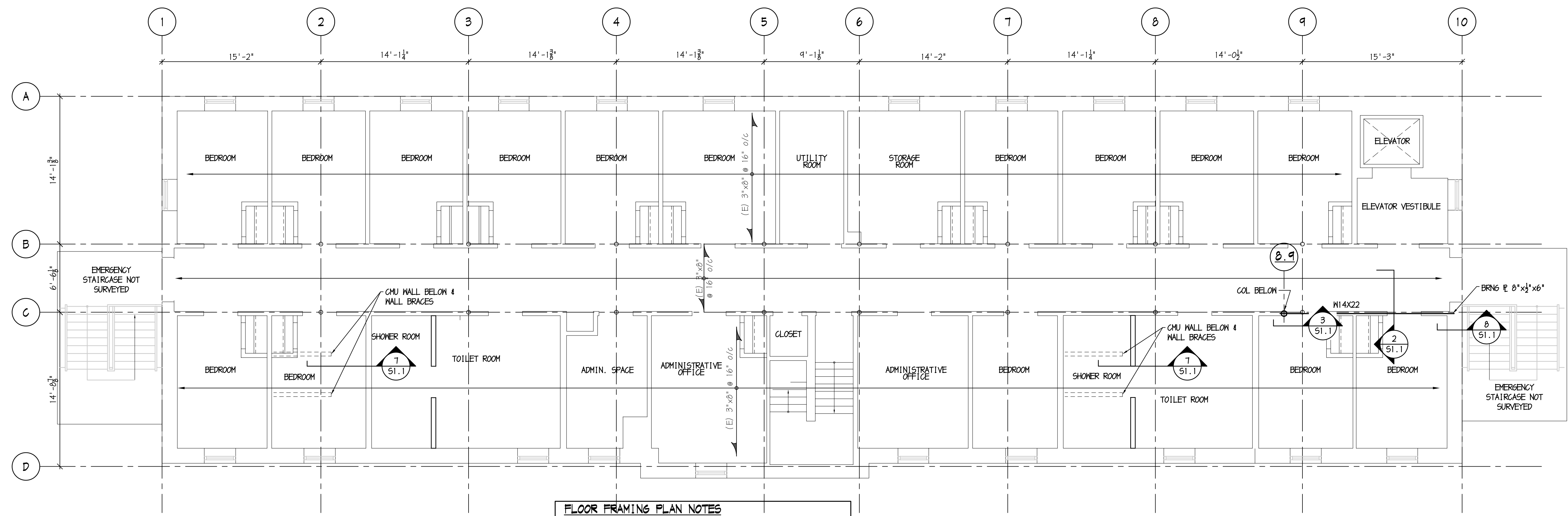
DRAWING TITLE:  
**FLOOR & ROOF FRAMING PLANS**

JOB NO: H13177-20	DESIGNED BY: AME
DATE: OCTOBER 19, 2020	DRAWN BY: GAS
SCALE: AS NOTED	CHECKED BY: AME
DRAWING NUMBER:	

**S2.2**

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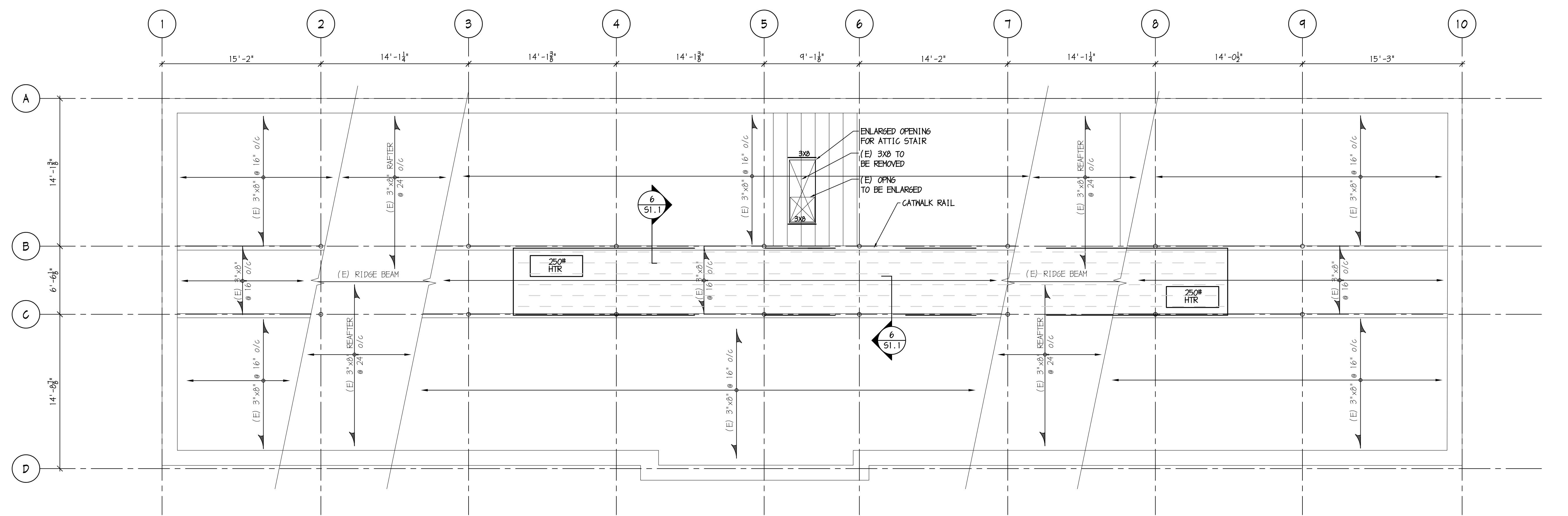
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NEW JERSEY PE #GE024913



**FLOOR FRAMING PLAN NOTES**

- FLOOR REFERENCE ELEVATION IS (14'-0 3/4").
- EXISTING CONSTRUCTION SHOWN THIS \_\_\_\_\_, TO BE FIELD VERIFIED PRIOR TO DETAILING, FABRICATION AND CONSTRUCTION.
- REFER TO STRUCTURAL NOTES ON DRAWINGS S1.1.

**1 SECOND FLOOR FRAMING PLAN**  
S2.2 SCALE: 3/16" = 1'-0"



**FRAMING PLAN NOTES**

- FLOOR REFERENCE ELEVATION IS (28'-4").
- EXISTING CONSTRUCTION SHOWN THIS \_\_\_\_\_, TO BE FIELD VERIFIED PRIOR TO DETAILING, FABRICATION AND CONSTRUCTION.
- REFER TO STRUCTURAL NOTES ON DRAWINGS S1.1.
- DENOTES 1/2" FIRE RETARDANT PLYWOOD FOR CATWALK AREA.

**2 ATTIC & ROOF FRAMING PLAN**  
S2.2 SCALE: 3/16" = 1'-0"





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DIRK MUIJS III, AIA

NJ REGISTERED ARCHITECT No. AI 15840  
PA REGISTERED ARCHITECT No. 402435  
DE REGISTERED ARCHITECT No. 55-0007528  
NY REGISTERED ARCHITECT No. 029608-1  
CT REGISTERED ARCHITECT No. AR1.104033  
MD REGISTERED ARCHITECT No. 14068  
DC REGISTERED ARCHITECT No. ARC102373

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

PROJECT:

CAMDEN COUNTY  
RENOVATION & MODERNIZATION  
REGAN BUILDING  
508 LAKELAND ROAD  
BLACKWOOD, NEW JERSEY 08012  
CAMDEN COUNTY, NEW JERSEY

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Table with 3 columns: NO., DESCRIPTION, DATE. Includes a REVISIONS section.

DRAWING TITLE:  
**ELECTRICAL COVER SHEET**

Table with 2 columns: JOB NO., DESIGNED BY; DATE, DRAWN BY; SCALE, CHECKED BY; DRAWING NUMBER.

BHG CONSULTING ENGINEERS, INC.  
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# ELECTRICAL SYMBOLS SCHEDULE

## ELECTRICAL ABBREVIATIONS

THIS LIST OF ABBREVIATIONS IS PROVIDED FOR CONVENIENCE ONLY. ITEMS LISTED HERE MAY OR MAY NOT BE USED ON THIS PROJECT.

Table of electrical abbreviations with columns for symbol, description, and notes.

THIS IS A COMPLETE LIST OF ELECTRICAL SYMBOLS FOR REFERENCE ONLY. SYMBOLS SHOWN HERE MAY OR MAY NOT BE USED ON THIS PROJECT.

Table of General Symbols including Key Note Indicator, Equipment Indicator, Scheduled Item Indicator, and Drawing Revision Indicator.

Table of Conduit and Wiring symbols including Branch Circuit Run Concealed, Branch Circuit Run Under Floor, Emergency Only Branch Circuit, and Cable Tray.

Table of Sound System symbols including Speaker - Ceiling MTD Flush and Speaker - Ceiling MTD Surface.

Table of Automatic Door symbols including Motion Detector, Push Plate, Key Switch, Power Reset, and Door Mounted Safety Interlock.

Table of Security System symbols including Card Access Station, Key Pad, Security Chime, Security System Motion Detector, Security TV Camera, Security System Console, Electromagnetic Lock, Remote Release, Electric Hinge, Electric Strike, Key Switch, Hold Up, and Glass Break.

Table of Power Distrib. symbols including Surface MTD Panelboard, Flush MTD Panelboard, 277/480V Panel, 120/208V Panel, Motor Connection, Disconnect Switch, Magnetic Starter, Combination Starter/Disconnect, Power Company Meter, C. T. Cabinet, Junction Box - Ceiling Mounted, and Junction Box - Floor Mounted.

Table of Power Systems symbols including Transformer, Automatic Transfer Switch, Emergency Generator, Power Distribution Unit, Uninterruptible Power Source, Transient Voltage Surge Suppressor, and Automatic Temperature Control.

Table of Grounding and Lightning Protection symbols including Ground Conductor Run Concealed, Ground Conductor Run Under Floor, Thermite Weld to Bldg or Equip, Thermite Weld of Ground Conductors, Bonding Plate or Clamp Connection to Piping or Equip, Connection to Air Terminal for Lightning Protection, Thermite Weld to Ground Rod, and Ground Rod Triode.

Table of Lighting symbols including Fixture Design, 2x4 Fixture, 2x2 Fixture, 1x4 Fixture, Fluorescent Striplight, Pendant Tube Fixture, Recessed Downlight, Wall Washer, Wall MTD Fixture, Pole MTD Fixture, Ceiling MTD Exit Sign, Wall MTD Exit Sign, Lighting Track, Emergency Battery Pack, and Emergency Lighting Remote Heads.

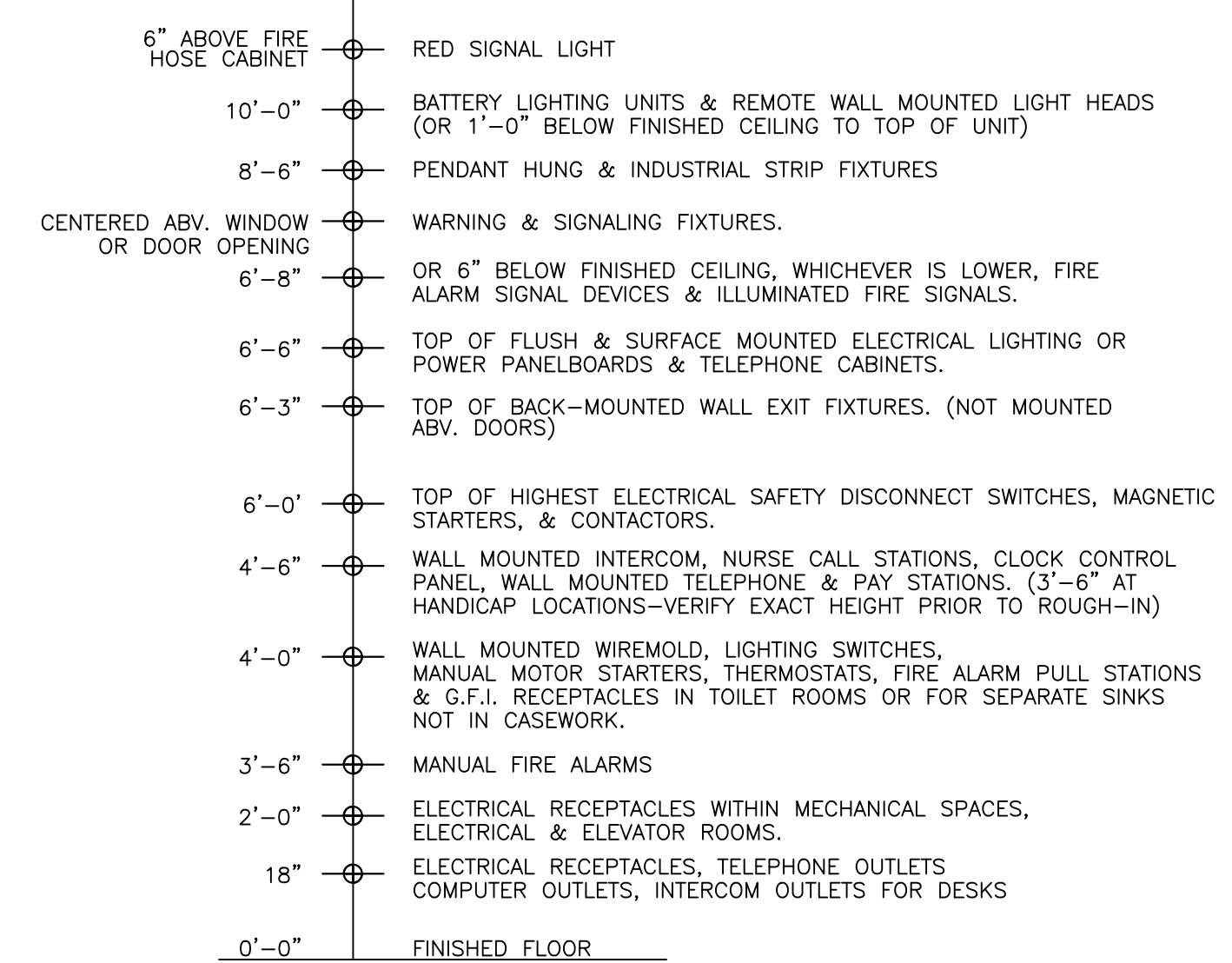
Table of Communications symbols including Telephone Outlet, Wall MTD Tele Outlet, Data Outlet, Combination Tele/Data Outlet, Combination Tele/Data Outlet at Movable Partition, Tele/Data Outlet Flush Floor Mounted, Combination Power & Tele/Data Outlet Flush Floor Mounted, Tele/Data Conduit Stub-Up, and WiFi Access Point.

Table of Fire Alarm System symbols including Manual Pull Station, Horn and Flashing Light, Chime and Flashing Light, Fire Alarm Bell, Flashing Light, Fire Alarm Speaker - Ceiling MTD, Fire Alarm Speaker - Wall MTD, Combination Speaker/Flashing Light, Ionization Type Smoke Detector, Thermal Type Detector, Ionization Type MTD to Duct, Ionization Type MTD in Plenum, Thermal Type MTD to Duct, Remote Test Switch, Photoelectric Type W/ Relay, Flow Switch, Tamper Switch, Pressure Switch for Dry Type System, Remote Trouble Bell, Electromagnetic Shutter Holder, Electromagnetic Door Holder, Fire Alarm System Activated Door Closer, Firemans Telephone Jack, Control ZAM, Monitor ZAM, Fire Alarm Control Panel, Fire Alarm Command Center, Fire Alarm Annunciator, Fire Alarm Punch Tape Recorder, Fire Alarm Data Gathering Panel, Fire Suppression Control Panel, Fire, Smoke or Fire/Smoke Damper, and Photoelectric Type Smoke Detector.

Table of Electrical Devices symbols including Single-Pole Double-Pole 3-Way and 4-Way Switches, Single Pole Switch - Weatherproof, Dual Level Switching Inside/Outside Lamp Control, Key-Lock Switch, Lighted-Handle Switch, Center-Off Double-Pole Switch, Explosion-Proof Switch, Local Wall Dimmer Switch, Low-Voltage Switch, Manual Toggle Switch with Thermal Overload, Emergency Power-Off Switch, Timeclock, Photocecell, Relay w/ Number and Type of Poles as Indicated, Single Receptacle, Duplex Receptacle, Double Duplex Receptacle, Duplex Split Wired with Bottom Outlet on Wall Switch, Safety Type Duplex Receptacle, Isolated Ground Type Duplex Receptacle, Isolated Ground Type Duplex Receptacle with Surge Suppression, Duplex for Electric Water Cooler Coordinate Location with Supplier, GFI Duplex Receptacle, Receptacle with Weatherproof Cover, Explosion-Proof Receptacle, Flush-Floor MTD Receptacle, Pedestal-Floor MTD Receptacle, Pedestal-Counter MTD Receptacle, Ceiling MTD Receptacle, Clock Receptacle, Special Purpose Receptacle - Size & Type as Indicated or Scheduled, Drop Cord, Power Feed at Movable Partition, Indicates Outlet to be Mounted 8" Above Counter Height - Typical Unless Noted Otherwise, Occupancy Sensor, and Occupancy Sensor-Ceiling Mounted.

Table of Television / Video System symbols including Television Outlet, Television Outlet w/ Receptacle, and TV Camera Outlet w/ Receptacle.

## MOUNTING HEIGHTS ELEVATION



MOUNTING HEIGHT NOTES:  
MOUNTING HEIGHTS TO CENTER OF OUTLETS UNLESS OTHERWISE NOTED. IN MASONRY CONSTRUCTION, HEIGHTS SHALL BE USED FOR REFERENCE TO NEAREST BLOCK OR BRICK COURSING.  
THE ABOVE MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS OR SPECIFICATIONS.

A+ BESIDE A DEVICE INDICATES THAT A DEVICE IS MOUNTED ABOVE A COUNTER OR CASEWORK. COORDINATE WITH ARCHITECTURAL DWGS. & CASEWORK CONTRACTOR.



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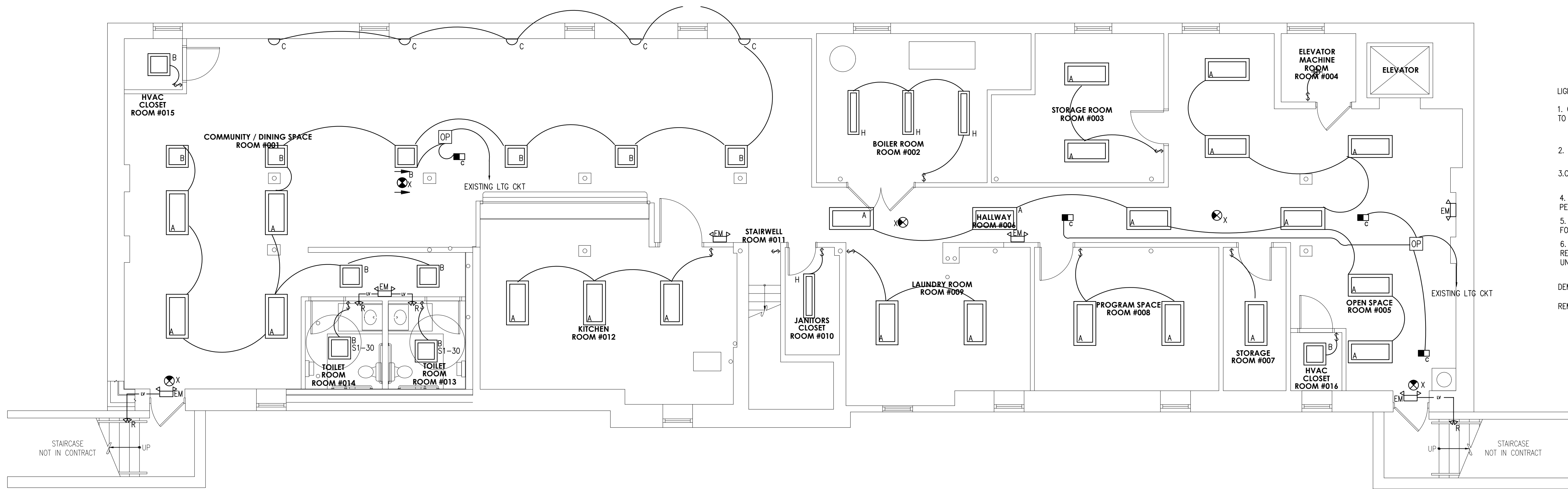
SEALS:  
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PA REGISTERED ARCHITECT No. 402435  
DE REGISTERED ARCHITECT No. S5-0007528  
NY REGISTERED ARCHITECT No. 029608-1  
CT REGISTERED ARCHITECT No. AR1.10403  
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REGAN BUILDING**  
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CAMDEN COUNTY, NEW JERSEY



**LIGHTING NOTES:**

- CONNECT ALL NEW EMERGENCY LIGHTING FIXTURES TO CLOSEST LIGHTING CIRCUIT AHEAD OF SWITCHING
- NOT USED
- CLEAN AND RELAMP EXISTING EXTERIOR FIXTURES
- FIXTURES SHALL BE ORIENTED WITH LAMPS PERPENDICULAR TO LONG AXIS OF SPACE.
- REUSE EXISTING CONDUCTORS AND CIRCUITS FOR ALL NEW FIXTURES UNLESS OTHERWISE NOTED
- REPLACE ALL EXISTING SWITCHING DEVICES. REUSE EXISTING CONDUCTORS AND CIRCUITS UNLESS OTHERWISE NOTED

**DEMO NOTE:**

- REMOVE NON-USED WIRING/SWITCHING

**GENERAL NOTES:**

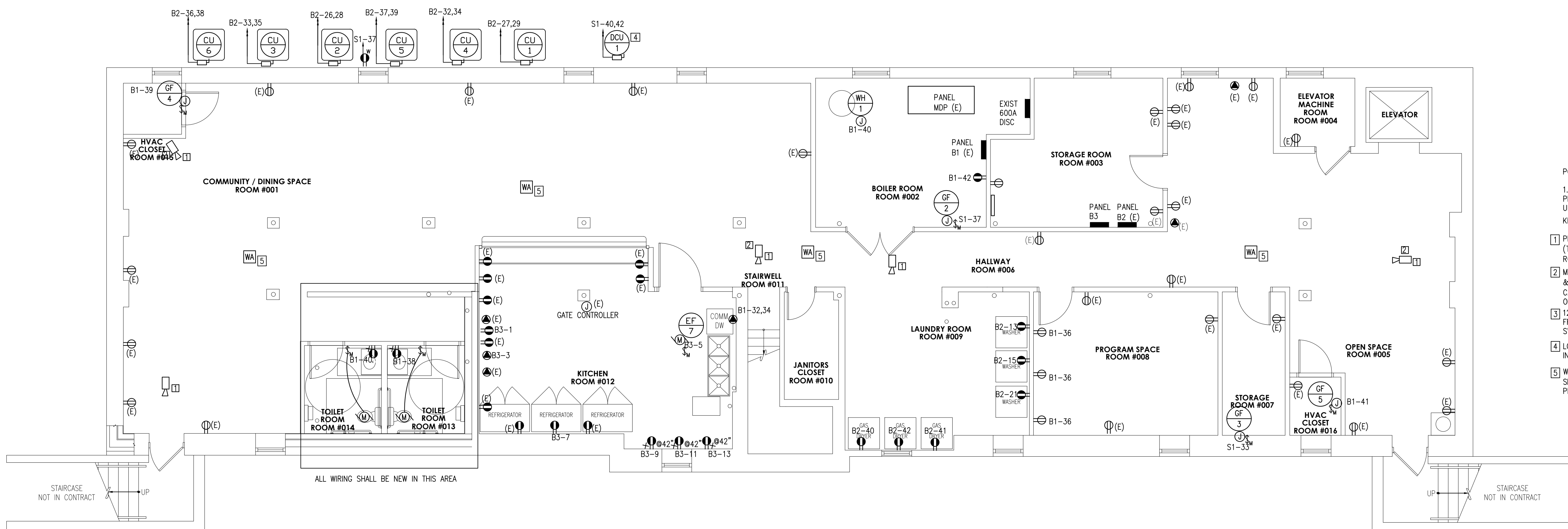
- CONTRACTOR SHALL COORDINATE WITH OTHER TRADES THE LOCATIONS OF ALL DEVICES PRIOR TO ROUGH-IN

**POWER NOTES:**

- REPLACE ALL EXISTING RECEPTACLE DEVICES AND PLATES. REUSE EXISTING CONDUCTORS AND CIRCUITS UNLESS OTHERWISE NOTED

**KEY NOTES:**

- PROPOSED SECURITY CAMERAS. FINAL LOCATIONS TBD (TYP) PROVIDE CAT6E CABLE DROP FROM SERVER ROOM #104 WITH 6' OF COIL IN CEILING
- MULTI ANGLE SECURITY CAMERAS-CAMERAS PROVIDED & INSTALLED BY OWNER. FOR EACH ANGLE, PROVIDE (1) CAT6E CABLE DROP FROM SERVER ROOM #104 WITH 6' OF COIL IN CEILING. VERIFY QUANTITY PRIOR TO BIDDING
- 120V INTERCONNECTED SMOKE DETECTOR SHALL BE FED FROM CLOSEST AVAILABLE LIGHTING CIRCUIT AHEAD OF SWITCHING
- LOW VOLTAGE/INTERCONNECTION WIRING BETWEEN THE INDOOR AND OUTDOOR UNITS SHALL BE BY OTHERS
- WIFI ACCESS POINT: PROVIDE CAT6E CABLE DROP FROM SERVER ROOM #104 WITH 6' OF COIL IN CEILING. PLATES AND DEVICES BY OTHERS



**1 BASEMENT FLOOR PLAN- POWER AND SYSTEMS**  
SCALE: 3/16" = 1'-0"

**2 BASEMENT FLOOR PLAN- LIGHTING**  
SCALE: 3/16" = 1'-0"

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REVISIONS		
NO.	DESCRIPTION	DATE

DRAWING TITLE:  
**BASEMENT PLAN  
LIGHTING, POWER  
AND SYSTEMS**

JOB NO: CCIA2020-02	DESIGNED BY: DM3/AAM/RH/BMG
DATE: OCTOBER 19, 2020	DRAWN BY: DM3/AAM/AAM
SCALE: AS NOTED	CHECKED BY: SMB/DM3/AAM
DRAWING NUMBER:	

**E-1.0**



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PA REGISTERED ARCHITECT No. 402435  
DE REGISTERED ARCHITECT No. S5-0007528  
NY REGISTERED ARCHITECT No. 029608-1  
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REVISIONS

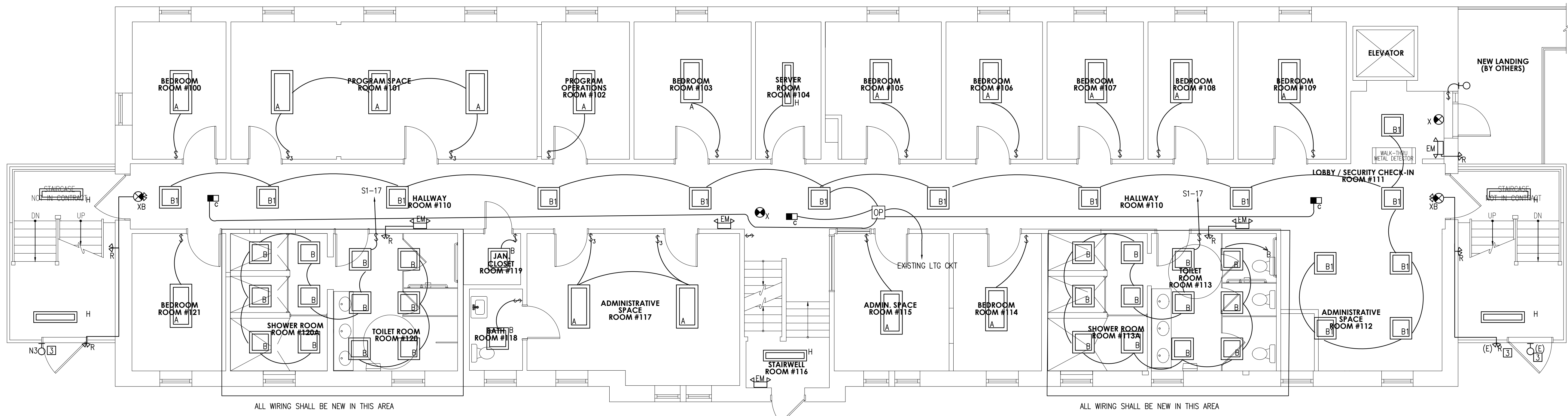
NO.	DESCRIPTION	DATE

DRAWING TITLE:

**FIRST FLOOR PLAN  
LIGHTING, POWER  
AND SYSTEMS**

JOB NO: C01A2020-02	DESIGNED BY: DM3/AW/RH/BMG
DATE: OCTOBER 19, 2020	DRAWN BY: DM3/AW/AW
SCALE: AS NOTED	CHECKED BY: SMB/DM3/AW
DRAWING NUMBER:	

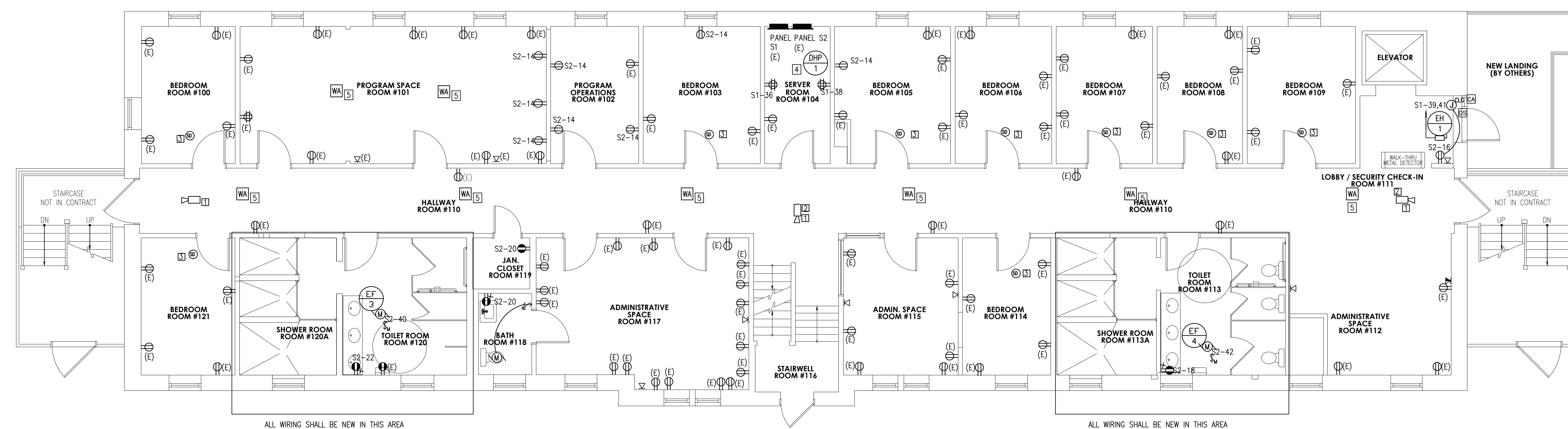
**E-1.1**



**2 FIRST FLOOR PLAN- LIGHTING**  
SCALE: 3/16" = 1'-0"

- LIGHTING NOTES:**
1. CONNECT ALL NEW EMERGENCY LIGHTING FIXTURES TO CLOSEST LIGHTING CIRCUIT AHEAD OF SWITCHING
  2. NOT USED
  3. CLEAN AND RELAMP EXISTING EXTERIOR FIXTURES
  4. FIXTURES SHALL BE ORIENTED WITH LAMPS PERPENDICULAR TO LONG AXIS OF SPACE.
  5. REUSE EXISTING CONDUCTORS AND CIRCUITS FOR ALL NEW FIXTURES UNLESS OTHERWISE NOTED
  6. REPLACE ALL EXISTING SWITCHING DEVICES. REUSE EXISTING CONDUCTORS AND CIRCUITS UNLESS OTHERWISE NOTED
- DEMO NOTE:**  
REMOVE NON-USED WIRING/SWITCHING

- GENERAL NOTES:**
1. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES THE LOCATIONS OF ALL DEVICES PRIOR TO ROUGH-IN



**1 FIRST FLOOR PLAN- POWER AND SYSTEMS**  
SCALE: 3/16" = 1'-0"

- POWER NOTES:**
1. REPLACE ALL EXISTING RECEPTACLE DEVICES AND PLATES. REUSE EXISTING CONDUCTORS AND CIRCUITS UNLESS OTHERWISE NOTED
- KEY NOTES:**
1. PROPOSED SECURITY CAMERAS. FINAL LOCATIONS TBD (TYP) PROVIDE CAT6E CABLE DROP FROM SERVER ROOM #104 WITH 6' OF COIL IN CEILING
  2. MULTI ANGLE SECURITY CAMERAS-CAMERAS PROVIDED & INSTALLED BY OWNER. FOR EACH ANGLE, PROVIDE (1) CAT6E CABLE DROP FROM SERVER ROOM #104 WITH 6' OF COIL IN CEILING. VERIFY QUANTITY PRIOR TO BIDDING
  3. 120V INTERCONNECTED SMOKE DETECTOR SHALL BE FED FROM CLOSEST AVAILABLE LIGHTING CIRCUIT AHEAD OF SWITCHING
  4. LOW VOLTAGE/INTERCONNECTION WIRING BETWEEN THE INDOOR AND OUTDOOR UNITS SHALL BE BY OTHERS
  5. WIFI ACCESS POINT: PROVIDE CAT6E CABLE DROP FROM SERVER ROOM #104 WITH 6' OF COIL IN CEILING. PLATES AND DEVICES BY OTHERS

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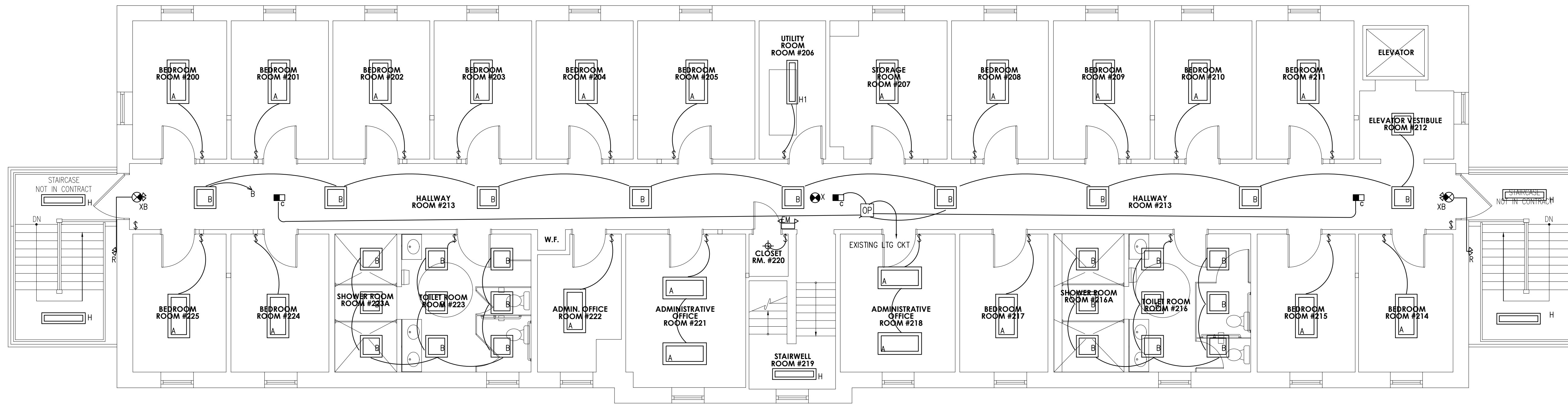
REVISIONS

NO.	DESCRIPTION	DATE

DRAWING TITLE:  
**SECOND FL PLAN  
LIGHTING, POWER  
AND SYSTEMS**

JOB NO: CCIA2020-02	DESIGNED BY: DMS/AM/RH/BMG
DATE: OCTOBER 19, 2020	DRAWN BY: DMS/AM/AM
SCALE: AS NOTED	CHECKED BY: SMB/DMS/AW
DRAWING NUMBER:	

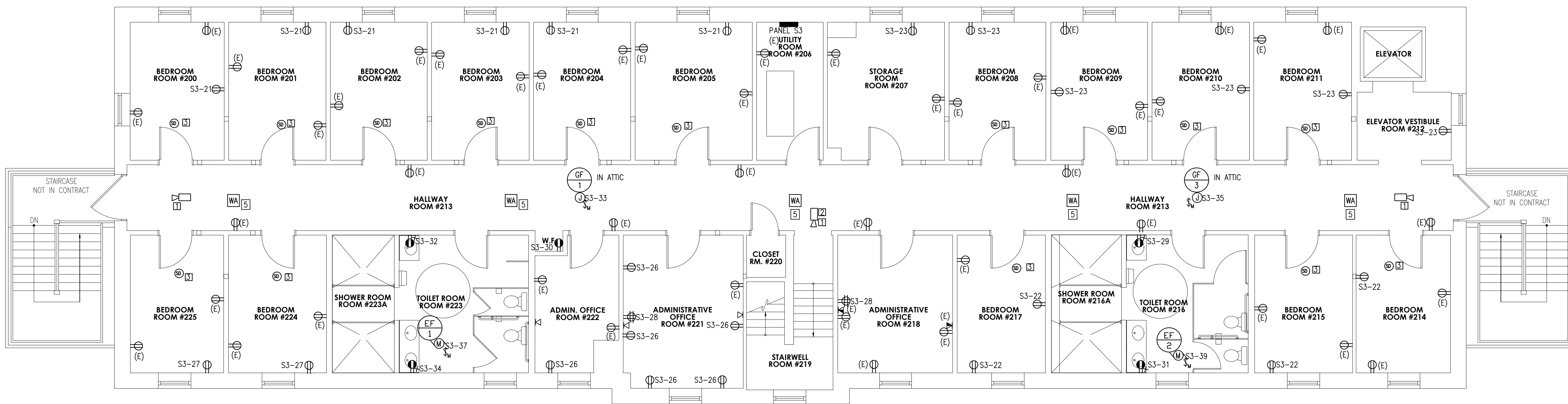
**E-1.2**



**2 SECOND FLOOR PLAN- LIGHTING**  
SCALE: 3/16" = 1'-0"

- LIGHTING NOTES:**
- CONNECT ALL NEW EMERGENCY LIGHTING FIXTURES TO CLOSEST LIGHTING CIRCUIT AHEAD OF SWITCHING
  - NOT USED
  - CLEAN AND RELAMP EXISTING EXTERIOR FIXTURES
  - FIXTURES SHALL BE ORIENTED WITH LAMPS PERPENDICULAR TO LONG AXIS OF SPACE.
  - REUSE EXISTING CONDUCTORS AND CIRCUITS FOR ALL NEW FIXTURES UNLESS OTHERWISE NOTED
  - REPLACE ALL EXISTING SWITCHING DEVICES. REUSE EXISTING CONDUCTORS AND CIRCUITS UNLESS OTHERWISE NOTED
- DEMO NOTE:**  
REMOVE NON-USED WIRING/SWITCHING

- GENERAL NOTES:**
- CONTRACTOR SHALL COORDINATE WITH OTHER TRADES THE LOCATIONS OF ALL DEVICES PRIOR TO ROUGH-IN



**1 SECOND FLOOR PLAN- POWER AND SYSTEMS**  
SCALE: 3/16" = 1'-0"

- POWER NOTES:**
- REPLACE ALL EXISTING RECEPTACLE DEVICES AND PLATES. REUSE EXISTING CONDUCTORS AND CIRCUITS UNLESS OTHERWISE NOTED
- KEY NOTES:**
- PROPOSED SECURITY CAMERAS. FINAL LOCATIONS TBD (TYP) PROVIDE CAT6E CABLE DROP FROM SERVER ROOM #104 WITH 6" OF COIL IN CEILING
  - MULTI ANGLE SECURITY CAMERAS-CAMERAS PROVIDED & INSTALLED BY OWNER. FOR EACH ANGLE, PROVIDE (1) CAT6E CABLE DROP FROM SERVER ROOM #104 WITH 6" OF COIL IN CEILING. VERIFY QUANTITY PRIOR TO BIDDING
  - 120V INTERCONNECTED SMOKE DETECTOR SHALL BE FED FROM CLOSEST AVAILABLE LIGHTING CIRCUIT AHEAD OF SWITCHING
  - LOW VOLTAGE/INTERCONNECTION WIRING BETWEEN THE INDOOR AND OUTDOOR UNITS SHALL BE BY OTHERS
  - WIFI ACCESS POINT: PROVIDE CAT6E CABLE DROP FROM SERVER ROOM #104 WITH 6" OF COIL IN CEILING. PLATES AND DEVICES BY OTHERS

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CAMDEN COUNTY, NEW JERSEY

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REVISIONS

NO.	DESCRIPTION	DATE

DRAWING TITLE:

### PANEL SCHEDULES

JOB NO: CCA2020-02  
DESIGNED BY: DMS/AHW/RH/BMG

DATE: OCTOBER 19, 2020  
DRAWN BY: DMS/AHW/AW

SCALE: AS NOTED  
CHECKED BY: SMB/DMS/AW

DRAWING NUMBER:

**E-2.1**

PANEL NO. B1 (EXISTING) LIGHTING AND RECEPTACLE PANEL SCHEDULE. NEUTRAL BUS: 100% GROUND BUS: YES ISOLATED GROUND BUS: NO MOUNTING: FLUSH AIC RATING: 208Y/120V, 3PH, 4W & G MAINS: 225A MAIN CIR. BKR.: MLO. TABLE with columns: CIR. NO., DESCRIPTION, WIRE SIZE, BREAKER AMPS, POLES, A (VA), B (VA), C (VA), POLES, BREAKER AMPS, WIRE SIZE, DESCRIPTION, CIR. NO.

PANEL NO. S2 (EXISTING) LIGHTING AND RECEPTACLE PANEL SCHEDULE. NEUTRAL BUS: 100% GROUND BUS: YES ISOLATED GROUND BUS: NO MOUNTING: FLUSH AIC RATING: 208Y/120V, 3PH, 4W & G MAINS: 225A MAIN CIR. BKR.: MLO. TABLE with columns: CIR. NO., DESCRIPTION, WIRE SIZE, BREAKER AMPS, POLES, A (VA), B (VA), C (VA), POLES, BREAKER AMPS, WIRE SIZE, DESCRIPTION, CIR. NO.

PANEL NO. B2 (EXISTING) LIGHTING AND RECEPTACLE PANEL SCHEDULE. NEUTRAL BUS: 100% GROUND BUS: YES ISOLATED GROUND BUS: NO MOUNTING: FLUSH AIC RATING: 208Y/120V, 3PH, 4W & G MAINS: 225A MAIN CIR. BKR.: MLO. TABLE with columns: CIR. NO., DESCRIPTION, WIRE SIZE, BREAKER AMPS, POLES, A (VA), B (VA), C (VA), POLES, BREAKER AMPS, WIRE SIZE, DESCRIPTION, CIR. NO.

PANEL NO. S3 (EXISTING) LIGHTING AND RECEPTACLE PANEL SCHEDULE. NEUTRAL BUS: 100% GROUND BUS: YES ISOLATED GROUND BUS: NO MOUNTING: FLUSH AIC RATING: 208Y/120V, 3PH, 4W & G MAINS: 225A MAIN CIR. BKR.: MLO. TABLE with columns: CIR. NO., DESCRIPTION, WIRE SIZE, BREAKER AMPS, POLES, A (VA), B (VA), C (VA), POLES, BREAKER AMPS, WIRE SIZE, DESCRIPTION, CIR. NO.

PANEL NO. S1 (EXISTING) LIGHTING AND RECEPTACLE PANEL SCHEDULE. NEUTRAL BUS: 100% GROUND BUS: YES ISOLATED GROUND BUS: NO MOUNTING: FLUSH AIC RATING: 208Y/120V, 3PH, 4W & G MAINS: 225A MAIN CIR. BKR.: MLO. TABLE with columns: CIR. NO., DESCRIPTION, WIRE SIZE, BREAKER AMPS, POLES, A (VA), B (VA), C (VA), POLES, BREAKER AMPS, WIRE SIZE, DESCRIPTION, CIR. NO.

PANEL NO. B3 LIGHTING AND RECEPTACLE PANEL SCHEDULE. NEUTRAL BUS: 100% GROUND BUS: YES ISOLATED GROUND BUS: NO MOUNTING: FLUSH AIC RATING: 208Y/120V, 3PH, 4W & G MAINS: 100A MAIN CIR. BKR.: MLO. TABLE with columns: CIR. NO., DESCRIPTION, WIRE SIZE, BREAKER AMPS, POLES, A (VA), B (VA), C (VA), POLES, BREAKER AMPS, WIRE SIZE, DESCRIPTION, CIR. NO.

LIGHTING FIXTURE SCHEDULE. TABLE with columns: TYPE, DESCRIPTION, MOUNTING, LAMPS (QTY, LAMP DESIGNATION), MANUFACTURER'S CATALOG NUMBER, WATTS, VOLTS, REMARKS.

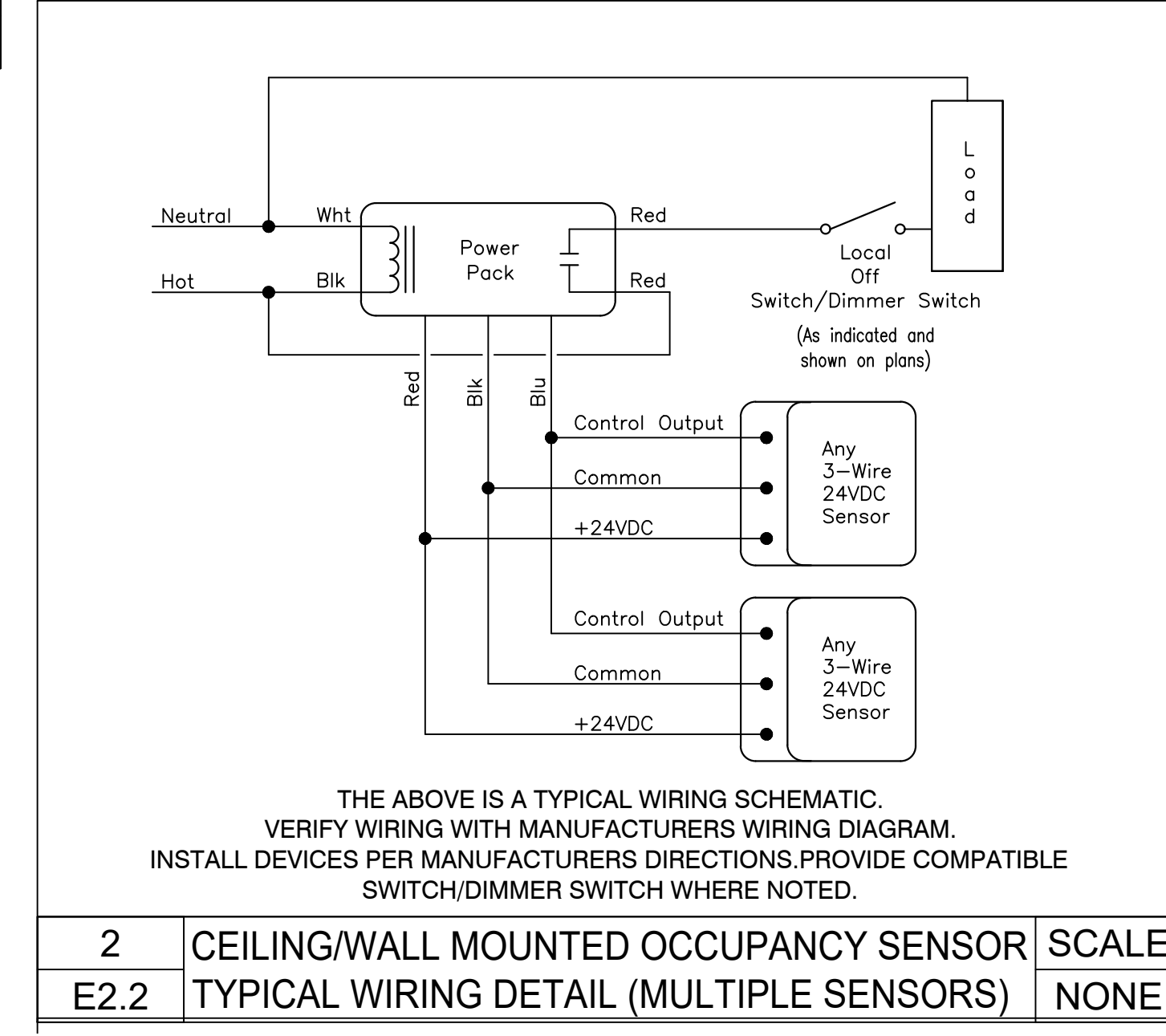
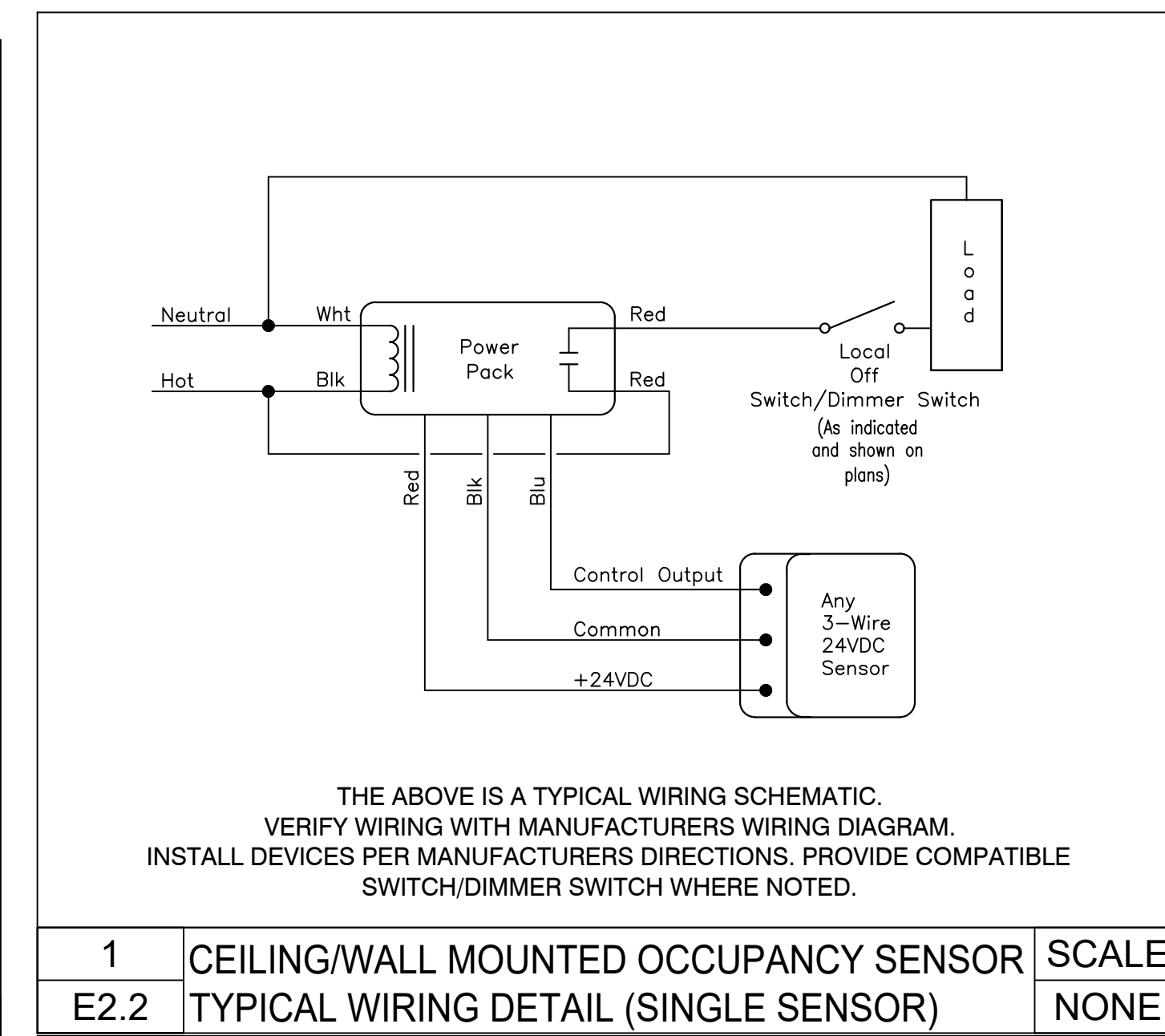
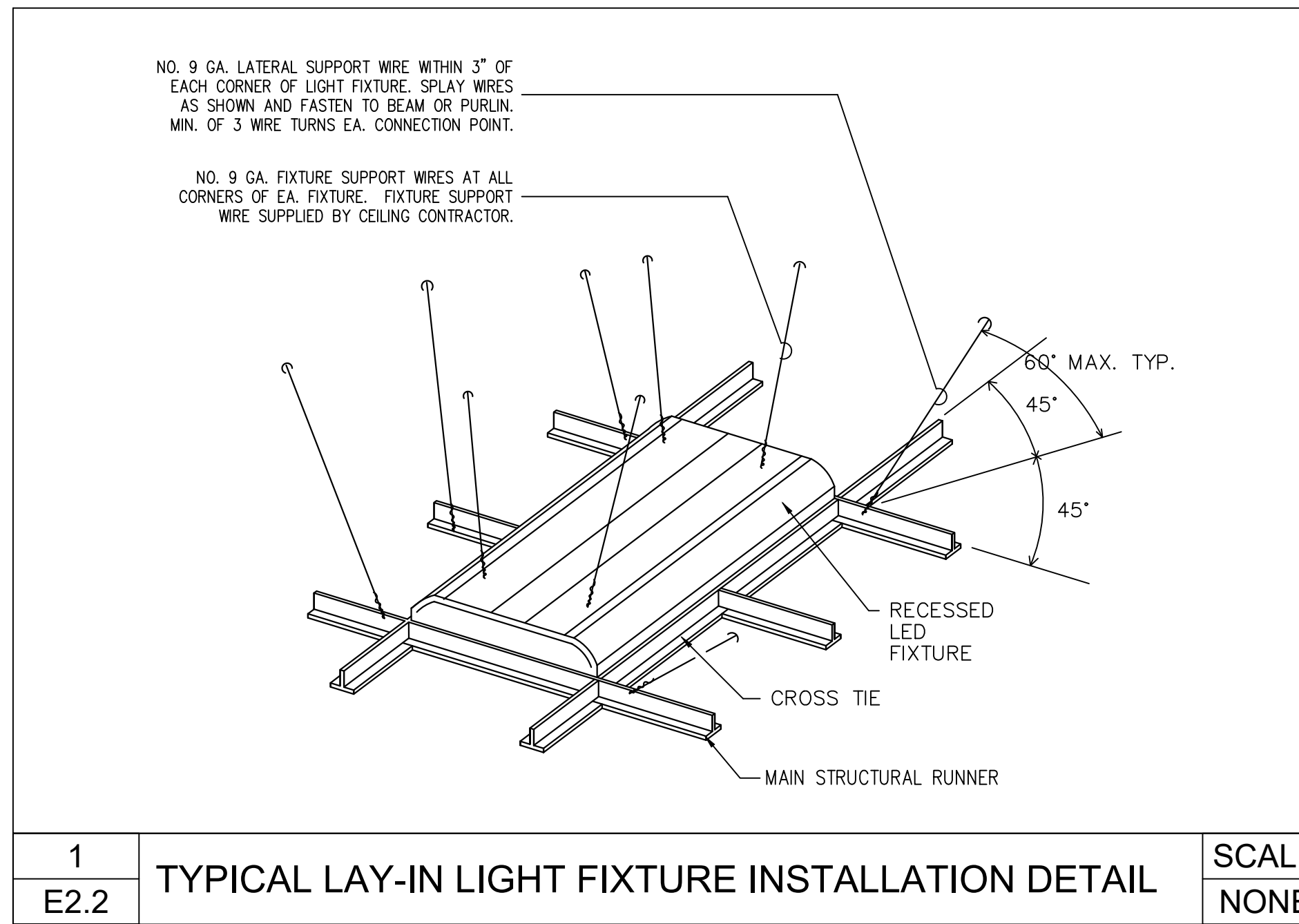
#### GENERAL NOTES FOR LIGHTING FIXTURE SCHEDULE

- 1. ALL FIXTURES SHALL BE PROVIDED BY OWNER AND INSTALLED BY EC.
- 2. PROVIDE ALL FIXTURES COMPLETE WITH LAMPS. ALL 4' FLUORESCENT LAMPS SHALL BE T8, RAPID START, 3500K, MINIMUM 2850 INITIAL LUMENS, UNLESS OTHERWISE NOTED.
- 3. PROVIDE ALL FLUORESCENT FIXTURES WILL FULL ELECTRONIC BALLASTS, ADVANCE OR APPROVED EQUAL, UNLESS OTHERWISE NOTED.
- 4. COORDINATE ALL LIGHT FIXTURES WITH CEILING, SOFFIT AND WALL CONSTRUCTION DETAILS AND VERIFY EXACT FIXTURE AND LAMP REQUIREMENTS PRIOR TO ORDERING FIXTURES. PRIOR TO ORDERING, FIELD VERIFY FIXTURE INSTALLATION REQUIREMENTS WITH ACTUAL CONSTRUCTION TO ENSURE FIXTURES WILL FIT IN SPACE(S) AS INDICATED ON THE DRAWINGS WITH ADEQUATE ACCESS FOR MAINTENANCE, LAMP REPLACEMENT AND EMERGENCY BATTERY PACK FOR FIXTURES SO EQUIPPED.
- 5. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF LIGHT FIXTURES ON EXTERIOR BUILDING ELEVATIONS. COORDINATE THE EXACT LOCATION OF LIGHT FIXTURES IN EQUIPMENT ROOMS TO AVOID INTERFERENCE WITH PIPING, DUCTWORK, EQUIPMENT, ETC.
- 6. LIGHT FIXTURES IN LAY-IN CEILINGS SHALL BE SUPPORTED INDEPENDENT OF CEILING GRID. SUPPORT TO BUILDING STRUCTURE ABOVE USING HANGING WIRE AND HARDENED STEEL CLIPS TO STRUCTURAL STEEL.
- 7. WALL MOUNTED FIXTURES SHALL COMPLY WITH ADA, ANSI A1176.1, SECTION 4.4 FOR PROTRUDING OBJECTS. VERIFY LOCAL CODE REQUIREMENTS WITH BUILDING OFFICIAL.
- 8. ALL EMERGENCY (EM) LIGHTING BALLASTS SHALL BE BOONIE BAC40EM, OR EQUAL AND BE ABLE TO BE SWITCHED WHILE MAINTAINING CHARGING. COMMON FIXTURE INDICATES NIGHT LIGHT. CONNECT TO CIRCUIT AHEAD OF SWITCH TO ALLOW CONTINUOUS OPERATION.

COMcheck Software Version 4.0.4.1  
Interior Lighting Compliance Certificate  
Project Information: Energy Code: 2015 IECC, Project Title: REGAN BUILDING, Project Type: New Construction.  
Additional Efficiency Package: Enhanced Interior Lighting Controls, Allowed Interior Lighting Power, Proposed Interior Lighting Power.  
Interior Lighting PASSES: Design 9% better than code.  
Interior Lighting Compliance Statement: Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application.



LOAD CALCULATION PER N.E.C. REQUIREMENTS							
LOAD TYPE - LOADS ARE SHOWN IN VA EXCEPT WHERE NOTED	PANEL B1(E)	PANEL B2(E)	PANEL B3	PANEL S1(E)	PANEL S2(E)	PANEL S3(E)	TOTAL
CONTINUOUS LOAD:	2700	1400	0	3900	2800	5200	16000
25% OF CONTINUOUS LOAD:	675	350	0	975	700	1300	4000
TOTAL CONTINUOUS LOAD:	3375	1750	0	4875	3500	6500	20000
NON CONTINUOUS LOAD:	36132	36160	4500	8440	8780	10780	104792
FIRST 10KW @ 100%:	10000	10000	0	0	0	10000	10000
REMAINING KW AT 50%:	13066	13080	0	0	0	390	47396
TOTAL NON CONTINUOUS LOAD:	23066	23080	4500	8440	8780	10390	57396
MISCELLANEOUS LOAD:	0	0	3800	0	0	0	3800
HVAC LOAD:	13120	37152	700	7016	1400	3800	63188
25% OF LARGEST HVAC MOTOR:	300	1945	300	300	300	300	300
TOTAL HVAC LOAD:	13420	39097	1000	7316	1700	4100	63488
TOTAL LOAD:	39861	63927	9300	20631	13980	20990	144684
ADDITIONAL MISC EXISTING LOADS	0	0	0	0	0	0	204723
MINIMUM REQUIRED FEEDER AMPACITY @208 VOLTS, 3 PHASE, 4 WIRE:	110.6	177.4	25.8	57.3	38.8	58.3	969.9



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**DIRK MUIJS III, AIA**  
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DE REGISTERED ARCHITECT No. S5-0007528  
NY REGISTERED ARCHITECT No. 029608-1  
CT REGISTERED ARCHITECT No. ARL10403  
MD REGISTERED ARCHITECT No. 14068  
DC REGISTERED ARCHITECT No. ARC102373

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

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JOB NO: CCIA2020-02	DESIGNED BY: DMS/AAR/RH/BMG
DATE: OCTOBER 19, 2020	DRAWN BY: DMS/AAR/AM
SCALE: AS NOTED	CHECKED BY: SMB/DMS/AAR
DRAWING NUMBER:	

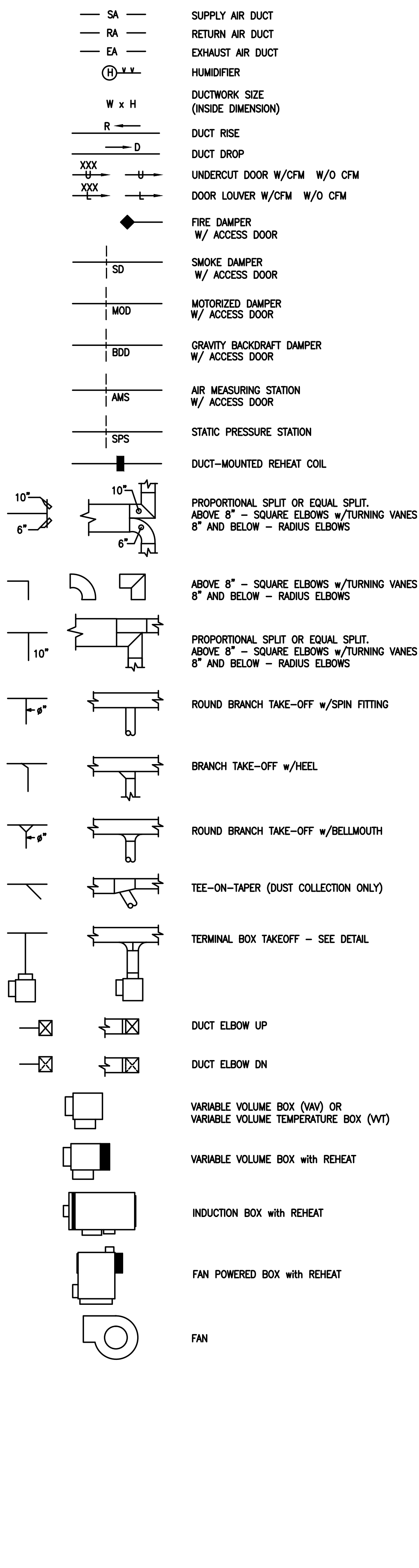
(D)	DEMOLISH
(E)	EXISTING
(F)	REFURBISH
(N)	NEW
(R)	RELOCATE
AC	AIR CONDITIONING UNIT
ACC	AIR COOLED CONDENSER
ACCU	AIR COOLED CONDENSING UNIT
ACFM	ACTUAL CUBIC FEET PER MINUTE
AD	ACCESS DOOR
AF	AIRFOIL
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AL	ACOUSTICAL LINING
AMB	AMBIENT
AMS	AIR FLOW MEASURING STATION
AO	ANALOG OUTPUT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARCH	ARCHITECTURAL
AS	AIR SEPARATOR
ASC	APPLICATION SPECIFIC CONTROLLER
ATC	AUTOMATIC TEMPERATURE CONTROL
AVG	AVERAGE
AWT	AVERAGE WATER TEMPERATURE
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BDD	BACKDRAFT DAMPER
BDS	BLOWDOWN SEPARATOR
BFP	BACK FLOW PREVENTOR OR BOILER FEED PUMP
BFU	BOILER FEED UNIT
BHP	BRAKE HORSEPOWER OR BOILER HORSEPOWER
BI	BACKWARD INCLINED
BI	BINARY INPUT
BLD	BUILDING
BO	BINARY OUTPUT
BOD	BOTTOM OF DUCT OR BASIS OF DESIGN
BOP	BOTTOM OF PIPE
BOT	BOTTOM
BT	BLOWDOWN TANK
BTJ	BETWEEN JOIST
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
C	CONVECTOR
CAP	CAPACITY
CB	CONCRETE BASE
CC	COOLING COIL
CCO	CAPPED CURB OPENING
CD	CEILING DIFFUSER
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CL	COOLING
CLG	CEILING
CMPR	COMPRESSOR
CO	CLEAN OUT
COL	COLUMN
CONC	CONCENTRATION OR CONCRETE
COND	CONDENSATE (STEAM OR COOLING COIL)
CONN	CONNECTION
CONT	CONTINUATION
CP	CONDENSATE PUMP
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	COEFFICIENT OF CAPACITY
D	DROP
DA	DEAERATOR
DB	DRY BULB
DC	DRY COOLER
DDC	DIRECT DIGITAL CONTROL
DEFL	DEFLECTION
DET	DETAIL
DIA	DIAMETER
DISC	DISCONNECT
DISCH	DISCHARGE
DI	DIGITAL INPUT
DN	DOWN
DO	DIGITAL OUTPUT
DR	DRAIN
DS	DISCONNECT SWITCH
DWG	DRAWING
EA	EXHAUST AIR OR EACH
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ECH	ELECTRIC CEILING HEATER
EDB	ENTERING DRY BULB TEMPERATURE
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE
EJ	EXPANSION JOINT
ELEC	ELECTRIC
ELEV	ELEVATION
EM	EQUIPMENT MANUFACTURER
EMER	EMERGENCY

**ABBREVIATIONS** NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED.

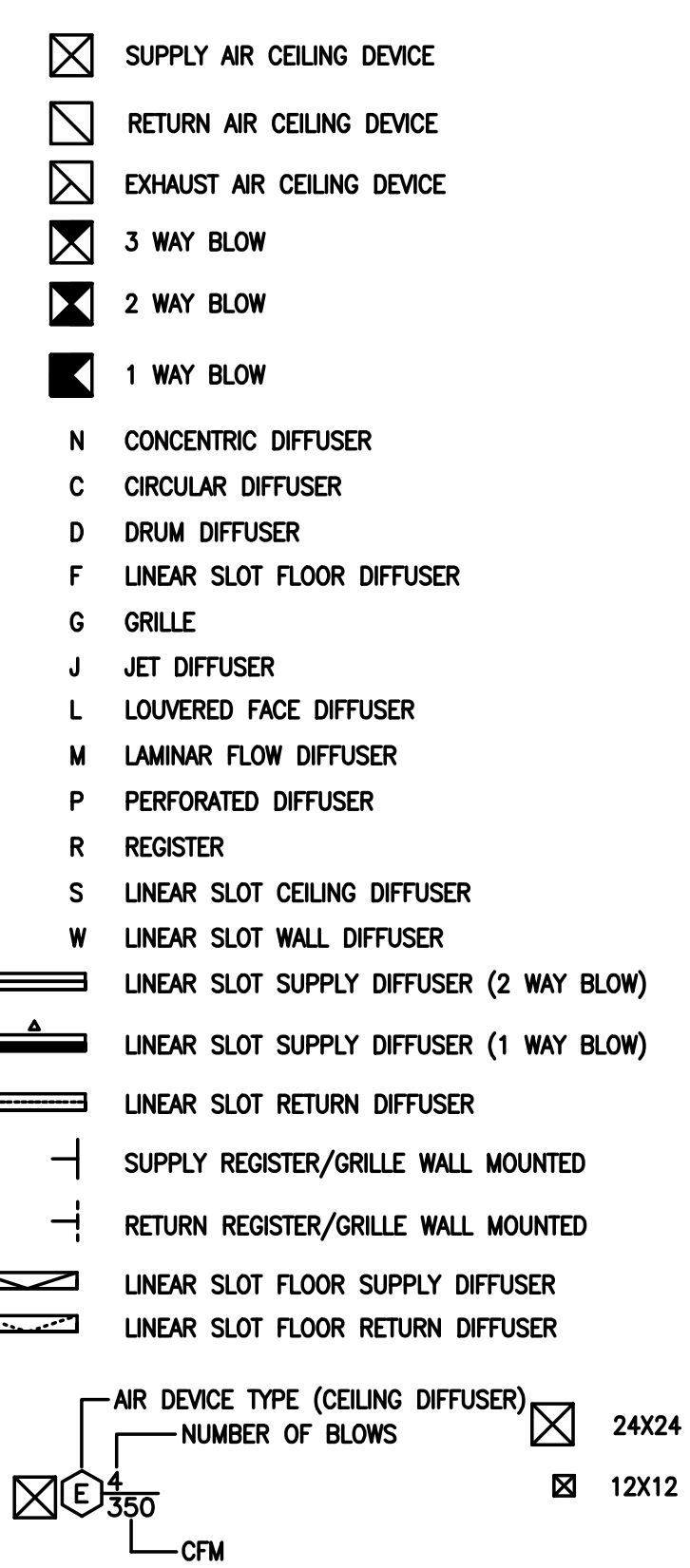
ENT	ENTERING
ER	EXHAUST REGISTER
ERAD	ELECTRIC RADIATION
ERC	EXHAUST ENERGY RECOVERY COIL
ERU	ENERGY RECOVERY UNIT
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EVC	EVAPORATIVE COOLER
EWB	ENTERING WET BULB TEMPERATURE
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXIST	EXISTING
EXT	EXTERNAL
F	FILTER
F&T	FLOAT AND THERMOSTATIC STEAM TRAP
FA	FACE AREA
FA	FROM ABOVE
FAS	FIRE ALARM SYSTEM
FB	FROM BELOW
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD	FIRE DAMPER OR FLOOR DRAIN
FIN	FINAL
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE
FLR	FLOOR
FLTR	FILTER
FM	FLOW METERING DEVICE
FO	FUEL OIL
FOB	FLAT ON BOTTOM
FOF	FUEL OIL FILL
FOO	FUEL OIL OVERFLOW
FOP	FUEL OIL PUMP
FOS	FUEL OIL SUPPLY
FOT	FLAT ON TOP
FPB	FAN POWERED BOX
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FLASH TANK OR FOOT OR FEET
FTR	FINNED TUBE RADIATION
FUT	FUTURE
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRILLE
GRV	GRAVITY ROOF VENT
GV	GRAVITY VENT
H	HUMIDIFIER
HAV	HEAT ACTUATED SHUTOFF VALVE
HC	HEATING COIL
HG	MERCURY
HO	HUB OUTLET
HP	HORSEPOWER
HTG	HEATING
HV	HEATING & VENTILATING UNIT
HWG	HOT WATER GENERATOR
HX	HEAT EXCHANGER
ID	INSIDE DIAMETER
IN	INCHES
INT	INITIAL
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LD	LINEAR DIFFUSER
LDB	LEAVING DRY BULB TEMPERATURE
LF	LINEAR FOOT
LG	LINEAR GRILLE
LOC	LOCATION
LP	PROPANE
LRA	LOCKED ROTOR AMPS
LVG	LEAVING
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBC	MODULAR BUILDING CONTROLLER
MBH	1000 BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MER	MECHANICAL EQUIPMENT ROOM
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM OR MINUTE
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MOD	MOTOR OPERATED DAMPER
MODU	MODULATING
MXB	MIXING BOX
N	NEW
NC	NORMALLY CLOSED
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN OR NUMBER
NTS	NOT TO SCALE
OA	OUTSIDE AIR

OAH	OUTSIDE AIR ENTHALPY
OAI	OUTSIDE AIR INTAKE
OAT	OUTSIDE AIR TEMPERATURE
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OED	OPEN ENDED DUCT
OEM	ORIGINAL EQUIPMENT MANUFACTURER
OPER	OPERATING
OPNG	OPENING
P	PUMP
PBD	PARALLEL BLADE DAMPER
PC	PUMPED CONDENSATE
PD	PRESSURE DROP
PFHX	PLATE & FRAME HEAT EXCHANGER
PHC	PREHEAT COIL
PLN	PLENUM
POS	POSITION
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH- ABSOLUTE
PSIG	POUNDS PER SQUARE INCH- GAUGE
QUAN	QUANTITY
R	RISE
RA	RETURN OR RELIEF AIR
RAH	RETURN AIR ENTHALPY
RAT	RETURN AIR TEMPERATURE
RCP	RADIANT CEILING PANEL
REQ	REQUIRED
RET	RETURN
REV	REVISION
RF	RETURN FAN
RG	RETURN GRILLE
RH	RELIEF HOOD OR RELATIVE HUMIDITY
RHC	REHEAT COIL
RHW	ROTARY HEAT WHEEL
RLA	RUN LOAD AMPS
RM	ROOM
RP	RECIRCULATION PUMP
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
RTU	ROOFTOP UNIT
RV	RELIEF VALVE
SA	SUPPLY AIR
SB	STRUCTURAL BASE
SCU	SELF CONTAINED UNIT
SD	SMOKE DAMPER OR DETECTOR
SEC	SECOND
SEER	EFFICIENCY RATING
SENS	SENSIBLE
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SI	SPRING HANGER
SO	SCREENED OPENING
SP	STATIC PRESSURE IN WG
SPD	STEAM PRESSURE DROP
SR	SUPPLY REGISTER
SRV	SUPPLY ENERGY RECOVERY COIL
SRV	SAFETY RELIEF VALVE
SSF	SAFETY RELIEF VALVE
ST	SIDE-STREAM FILTER
ST	SOUND ATTENUATOR
STBY	STANDBY
STM	STEAM
SUP	SUPPLY
SUT	SURGE TANK
TEC	TERMINAL EQUIPMENT CONTROLLER
TG	TRANSFER GRILLE
TOD	TOP OF DUCT
TOP	TOP OF PIPE
TOT	TOTAL
TP	TRANSFER PUMP
TSP	TOTAL STATIC PRESSURE
TTS	TIGHT TO STRUCTURE
TYP	TYPICAL
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VIB	VIBRATION
VIV	VARIABLE INLET VALVES
VTR	VENT THROUGH ROOF
W/	WITH
W/O	WITHOUT
WB	WET BULB
WCU	WATER COOLED CONDENSING UNIT
WG	WATER GAUGE
WHP	WATER SOURCE HEAT PUMP
WMS	WIRE MESH SCREEN
WPD	WATER PRESSURE DROP

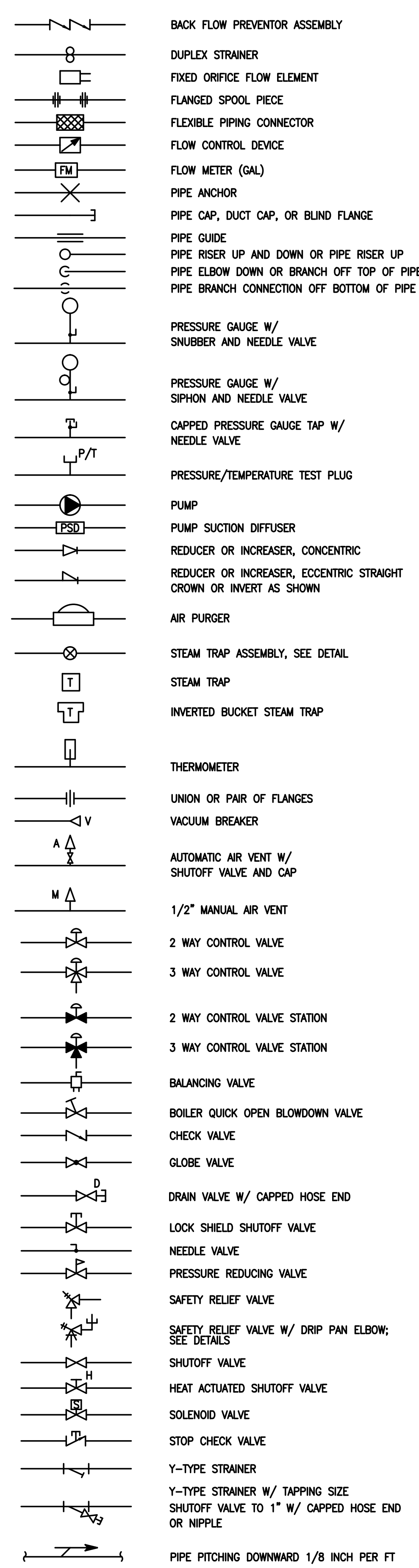
**DUCT SYMBOLS**



**AIR DEVICE LEGEND**



**PIPE SYMBOLS**



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DE REGISTERED ARCHITECT No. SS-0007528  
NY REGISTERED ARCHITECT No. 029608-1  
CT REGISTERED ARCHITECT No. ARI10403  
MD REGISTERED ARCHITECT No. 14068  
DC REGISTERED ARCHITECT No. ARC102373

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**MECHANICAL COVER SHEET**

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DATE: OCTOBER 19, 2020	DRAWN BY: DMS/AMW/AM
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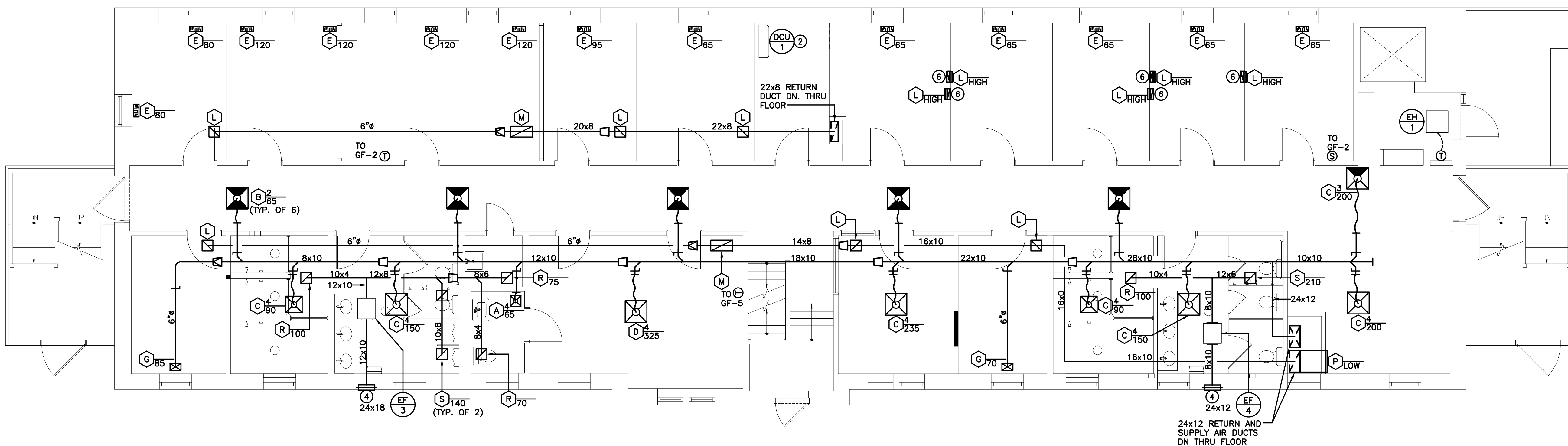
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NO.	DESCRIPTION	DATE

DRAWING TITLE:  
**MECHANICAL FLOOR PLANS**

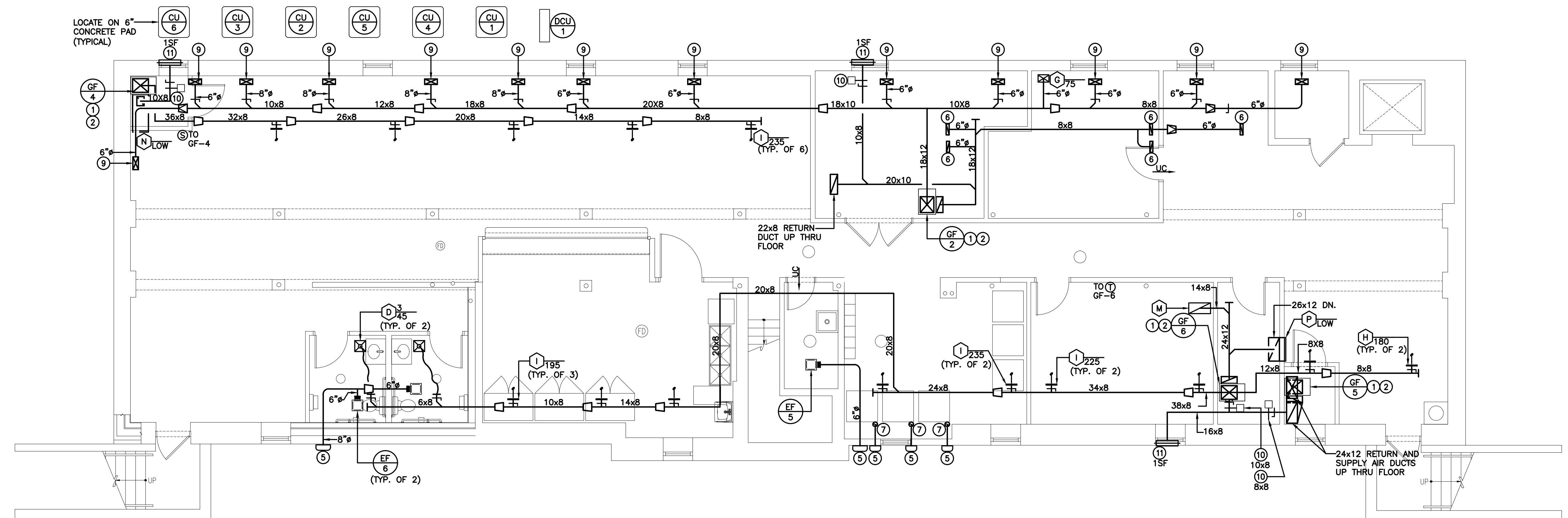
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**M-2.0**

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**1 FIRST FLOOR MECHANICAL PLAN**  
M-2.0 SCALE: 3/16"=1'-0"



**2 BASEMENT MECHANICAL PLAN**  
M-2.0 SCALE: 3/16"=1'-0"



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REVISIONS

NO.	DESCRIPTION	DATE

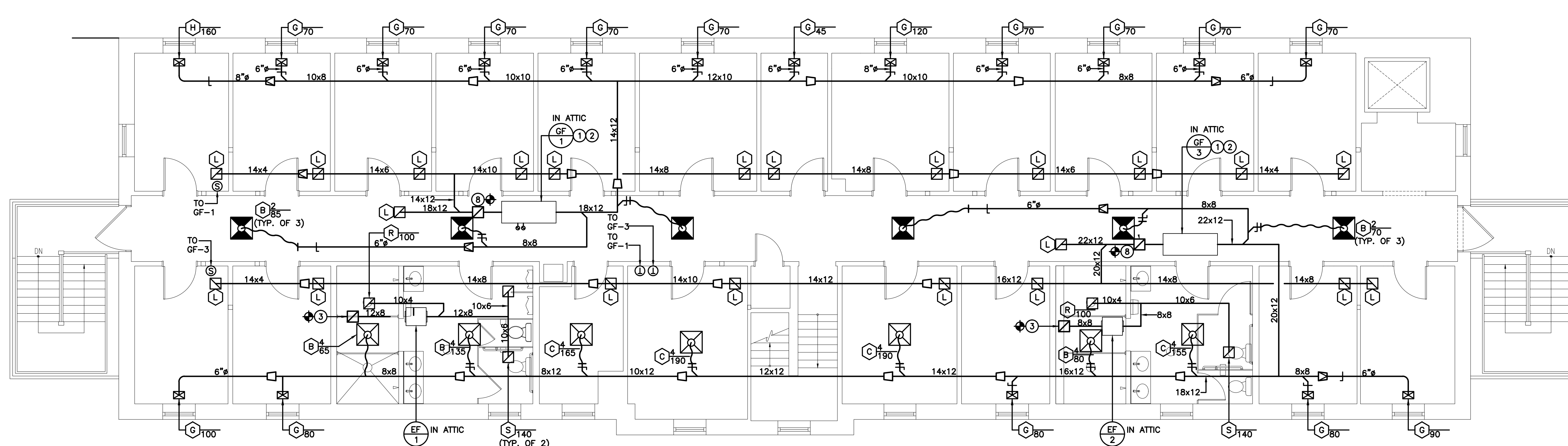
DRAWING TITLE:

**MECHANICAL  
FLOOR PLAN**

JOB NO: CCM2020-02	DESIGNED BY: DMS/ANM/RH/BMG
DATE: OCTOBER 19, 2020	DRAWN BY: DMS/ANM/AM
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**M-2.1**



**1 SECOND FLOOR MECHANICAL PLAN**  
M-2.1 SCALE: 3/16"=1'-0"

- MECHANICAL SHEET NOTES:**
- VENT AND AIR INTAKE UP THRU ROOF WITH FACTORY SUPPLIED CONCENTRIC TERMINATION KIT. MAXIMUM LENGTH AND MINIMUM SIZE PER MANUFACTURERS REQUIREMENTS (CONTRACTOR MAY RUN VENT AND INTAKE PIPES UP EXTERIOR AS PERMITTED BY ARCHITECT AND OWNER). PIPING IN ATTIC TO BE INSULATED TO PREVENT FREEZING.
  - CONDENSATE LINE FROM UNIT TO DRAIN. LINE TO BE FULL SIZE OF UNIT OPENING. DISCHARGE TO GRADE WITH SPLASH BLOCK WHERE DRAIN IS NOT PROVIDED.
  - CONNECT NEW EXHAUST DUCT TO EXISTING 10x8 ROOF OPENING. PROVIDE NEW ROOF CAP.
  - NEW LOUVER WITH SCREEN COVERING THRU EXISTING WALL. CONTRACTOR SHALL CUT, PATCH AND REPAIR EXISTING WAS AS REQUIRED TO MATCH ADJACENT AREA. SIZE AS SHOWN ON PLAN.
  - NEW WALL CAP THRU EXISTING WALL. CONTRACTOR SHALL CUT, PATCH AND REPAIR EXISTING AS REQUIRED TO MATCH ADJACENT AREA. SIZE AS SHOWN ON PLAN.
  - 14x3 1/2" RETURN AIR DUCT THRU FLOOR, LOCATE BETWEEN EXISTING STUDS.
  - CONNECT VENT TO DRYER PER MANUFACTURERS REQUIREMENTS.
  - CONNECT NEW OUTSIDE AIR DUCT TO EXISTING 10x10 ROOF OPENING. PROVIDE NEW ROOF CAP.
  - DUCT UP THRU FLOOR TO FLOOR REGISTER, DUCT TO BE FULL SIZE OF FLOOR REGISTER.
  - CONNECT OUTSIDE AIR DUCT TO RETURN AIR DUCT WITH MANUAL AND AUTOMATIC DAMPERS. INTERLOCK AUTOMATIC DAMPER WITH UNIT.
  - INSTALL NEW OUTSIDE AIR INTAKE LOUVER WITH SCREEN COVERING IN EXISTING WINDOW OPENING. CONTRACTOR SHALL REMOVE WINDOW, INSTALL NEW LOUVER AND PROVIDE NEW SHEETMETAL PANEL IN EXTERIOR AND INTERIOR OF UNUSED PORTION OF OPENING WITH R-19 BATT INSULATION. PAINT PANELS COLOR AS SELECTED BY ARCHITECT. MINIMUM FREE AREA OF LOUVER AS SHOWN ON PLAN.

ELECTRIC HEATER SCHEDULE									
NO.	HEATING CAPACITY KW	TYPE	ELECTRICAL			MANUFACTURER MODEL NUMBER	REMARKS		
			VOLTS	PHASE	HERTZ				
1	4.0	CLG. HEATER	208	3	60	QMARK SERIES FFCH	①		

NOTES:  
 ① WITH REMOTE THERMOSTAT ② WITH INTEGRAL VANDAL PROOF THERMOSTAT

AIR DEVICE SCHEDULE						
NO.	NECK SIZE	FACE SIZE	CFM RANGE	TYPE	MANUFACTURER MODEL NUMBER	REMARKS
A	6"	12x12	0-137	SUPPLY AIR DIFFUSER	PRICE OR EQUAL	
B	6"	24x24	0-137	SUPPLY AIR DIFFUSER	PRICE OR EQUAL	
C	8"	24x24	138-244	SUPPLY AIR DIFFUSER	PRICE OR EQUAL	
D	10"	24x24	245-327	SUPPLY AIR DIFFUSER	PRICE OR EQUAL	
E	10x4	10x4	0-135	SUPPLY AIR FLOOR REGISTER	PRICE OR EQUAL	
F						
G	10x6	10x6	0-145	SUPPLY AIR REGISTER	PRICE OR EQUAL	
H	14x6	14x6	146-190	SUPPLY AIR REGISTER	PRICE OR EQUAL	
I	16x6	16x6	191-260	SUPPLY AIR REGISTER	PRICE OR EQUAL	
L	12x12	24x48	0-365	RETURN AIR GRILLE	PRICE OR EQUAL	
M	24x12	24x12	366-720	RETURN AIR GRILLE	PRICE OR EQUAL	
N	24x24	24x24	721-1440	RETURN AIR GRILLE	PRICE OR EQUAL	
P	24x48	24x48	1441-2800	RETURN AIR GRILLE	PRICE OR EQUAL	
R	8x6	8x6	91-130	EXHAUST REGISTER	PRICE OR EQUAL	
S	10x8	10x8	131-230	EXHAUST REGISTER	PRICE OR EQUAL	

SUPPLY/EXHAUST FAN SCHEDULE											
NO.	CFM	S.P.	RPM	H.P.	TYPE	DRIVE	ELECTRICAL			MANUFACTURER MODEL NUMBER	NOTES
							VOLTS	PHASE	HERTZ		
1	380	0.50"	1541	1/4	INLINE CENTRIFUGAL	BELT	115	1	60	GREENHECK BCF-106-4	①②③
2	240	0.50"	1398	1/4	INLINE CENTRIFUGAL	BELT	115	1	60	GREENHECK BCF-106-4	①②③
3	525	0.50"	1784	1/4	INLINE CENTRIFUGAL	BELT	115	1	60	GREENHECK BCF-106-4	①②③
4	310	0.50"	1451	1/4	INLINE CENTRIFUGAL	BELT	115	1	60	GREENHECK BCF-106-4	①②③
5	75	0.50"	750	21 WATTS	CLG. MTD. CENTRIFUGAL	DIRECT	115	1	60	GREENHECK SP-A390-VG	②③④
6	70	0.50"	744	21 WATTS	CLG. MTD. CENTRIFUGAL	DIRECT	115	1	60	GREENHECK SP-A390-VG	②③④

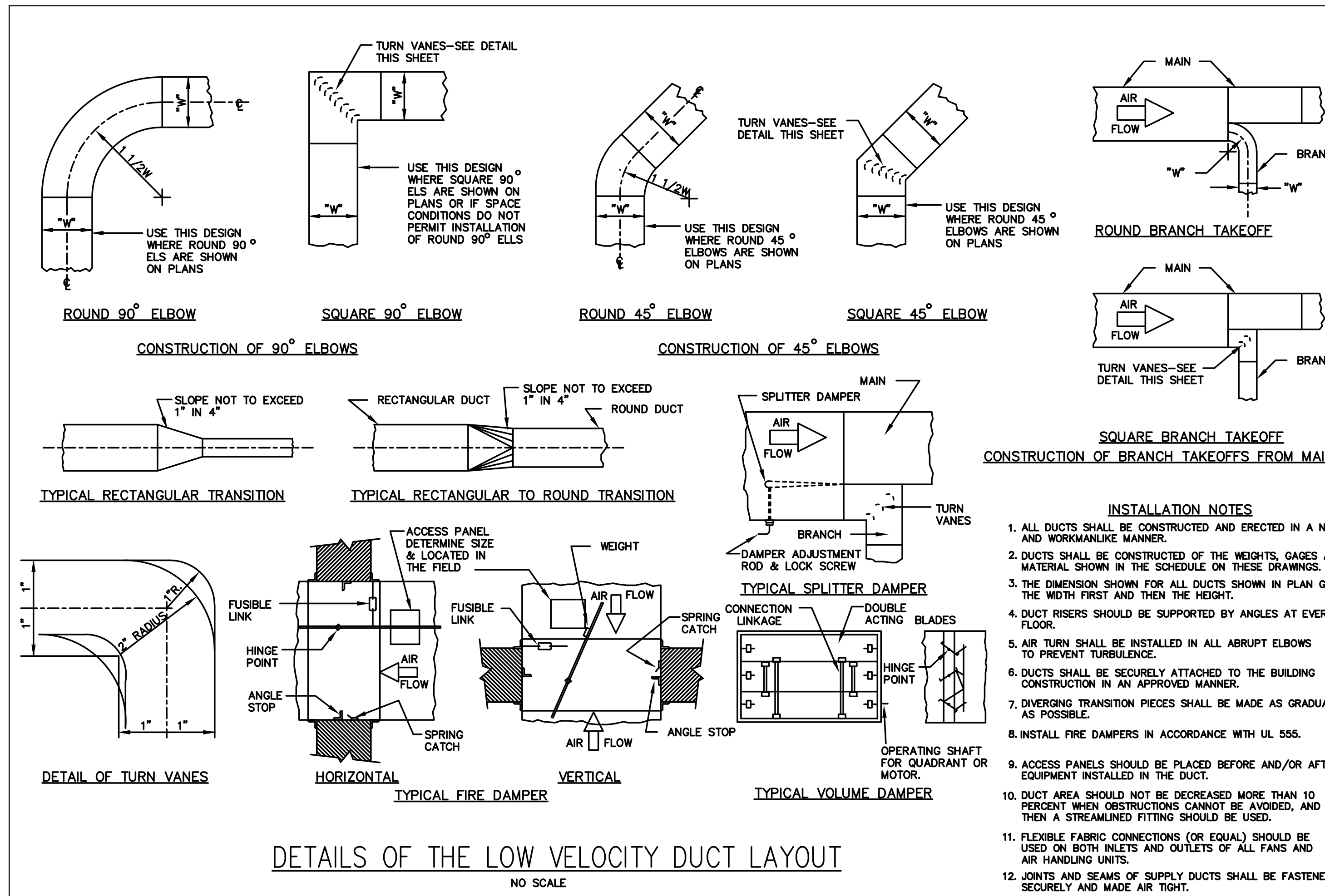
NOTES:  
 ① FAN TO RUN CONTINUOUS IN THE OCCUPIED MODE ④ INTERLOCK WITH LIGHT SWITCH  
 ② WITH SOLID STATE CONTROL FOR BALANCING  
 ③ WITH BACKDRAFT DAMPER

DUCTLESS SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE									
NO.	COOLING CAPY. BTUH	HEATING CAPY. BTUH	CFM	ELECTRICAL			MANUFACTURER MODEL NUMBER	NOTES	
				VOLTS	PHASE	HERTZ			
DAC-1	24000	NA	705	208	1	60	MITSUBISHI INDOOR-PKA-A24KA7 OUTDOOR-PUY-A24NHA7	①②③④⑤	

NOTES:  
 ① PROVIDE PROGRAMMABLE THERMOSTAT ③ PROVIDE MATCHING CONDENSING UNIT ④ PROVIDE 0 DEG. LOW AMBIENT CONTROL  
 ② REFRIGERANT PIPING (MAXIMUM LENGTH AND MINIMUM SIZE PER MANUFACTURER REQUIREMENTS)  
 ⑤ CONTRACTOR IS RESPONSIBLE FOR LOW VOLTAGE WIRING BETWEEN THE INDOOR AND OUTSIDE UNITS

GAS FIRED FURNACE SCHEDULE												
NO.	COOLING CAPY TONS	CFM	EXT. S.P.	FAN H.P.	HEATING		O.A. CFM	ELECTRICAL			MANUFACTURER MODEL NUMBER	NOTES
					INPUT CFH	OUTPUT MBH		VOLTS	PHASE	HERTZ		
1	3.0	1200	0.50	3/4	39.0	37.8	190	115	1	60	TRANE INDOOR-S9X2B060 OUTDOOR-4TTA7036	①②③④⑤
2	3.0	1200	0.50	3/4	60.0	37.8	265	115	1	60	TRANE INDOOR-S9X2B060 OUTDOOR-4TTA7036	①②③④⑤
3	4.0	1600	0.50	3/4	52.0	50.4	155	115	1	60	TRANE INDOOR-S9X2B080 OUTDOOR-4TTA7048	①②③④⑤
4	4.0	1400	0.50	3/4	52.0	50.4	265	115	1	60	TRANE INDOOR-S9X2B080 OUTDOOR-4TTA7048	①②③④⑤
5	5.0	2000	0.50	1	52.0	50.4	195	115	1	60	TRANE INDOOR-S9X2C080 OUTDOOR-4TTA7060	①②③④⑤
6	5.0	2000	0.50	1	52.0	50.4	275	115	1	60	TRANE INDOOR-S9X2C080 OUTDOOR-4TTA7060	①②③④⑤

NOTES:  
 ① WITH PROGRAMMABLE THERMOSTAT WITH REMOTE SENSOR ④ WITH MATCHING CONDENSING UNIT (208-3-60)  
 ② WITH MATCHING COOLING COIL ⑤ WITH VENT AND AIR INTAKE, MAXIMUM LENGTH AND MINIMUM SIZE PER MANUFACTURER REQUIREMENTS, PROVIDE CONCENTRIC TERMINATION KIT UP THRU ROOF  
 ③ HIGH EFFICIENT FURNACE



DUCT CONSTRUCTION MINIMUM SHEET METAL THICKNESSES		
RECTANGULAR DUCTS		
MAXIMUM SIZE (INCHES)	STEEL (MINIMUM THICKNESS, NOMINAL)	
THROUGH 12	0.022 INCH (26 GAGE, GALV.)	
13 THROUGH 30	0.028 INCH (24 GAGE, GALV.)	
31 THROUGH 54	0.034 INCH (22 GAGE, GALV.)	
55 THROUGH 84	0.040 INCH (20 GAGE, GALV.)	
OVER 84	0.052 INCH (18 GAGE, GALV.)	

ROUND DUCTS		
MAXIMUM SIZE (INCHES)	SPIRAL SEAM DUCT	LONGITUDINAL SEAM DUCT
	STEEL (MINIMUM THICKNESS, NOMINAL)	STEEL (MINIMUM THICKNESS, NOMINAL)
THROUGH 12	0.019 INCH (28 GAGE, GALV.)	0.022 INCH (26 GAGE, GALV.)
13 THROUGH 18	0.022 INCH (26 GAGE, GALV.)	0.028 INCH (24 GAGE, GALV.)
19 THROUGH 28	0.028 INCH (24 GAGE, GALV.)	0.034 INCH (22 GAGE, GALV.)
29 THROUGH 36	0.034 INCH (22 GAGE, GALV.)	0.040 INCH (20 GAGE, GALV.)
37 THROUGH 52	0.040 INCH (20 GAGE, GALV.)	0.052 INCH (18 GAGE, GALV.)

FITTINGS		
MAXIMUM SIZE (INCHES)	STEEL (MINIMUM THICKNESS, NOMINAL)	
THROUGH 12	0.022 INCH (26 GAGE, GALV.)	
13 THROUGH 24	0.028 INCH (24 GAGE, GALV.)	
25 THROUGH 36	0.034 INCH (22 GAGE, GALV.)	
37 THROUGH 52	0.040 INCH (20 GAGE, GALV.)	

DUCT CONSTRUCTION SCHEDULE					
DUCT SYSTEM	SMACNA PRESSURE CLASS	SMACNA SEALING CLASS	DUCT MATERIAL	JOINING METHOD	INSUL TYPE & THICKNESS
SUPPLY	+ 1 INCH	C	GALV. STL.	DUCTMATE	1.5" BATT
RETURN	- 1 INCH	C	GALV. STL.	DUCTMATE	1.5" BATT
GENERAL EXHAUST	- 1 INCH	C	GALV. STL.	DUCTMATE	

NOTE:  
 EXISTING DUCTWORK REQUIRING DEMOLITION SHALL BE TERMINATED PROPERLY IN ACCORDANCE WITH SMACNA STDS. FOR +2 OR -2 PRESSURE RATING.



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SEALS:

DIRK MUITS III, AIA

NJ REGISTERED ARCHITECT No. A1 15840  
 PA REGISTERED ARCHITECT No. 402435  
 DE REGISTERED ARCHITECT No. SS-0007528  
 NY REGISTERED ARCHITECT No. 029608-1  
 CT REGISTERED ARCHITECT No. ARI10403  
 MD REGISTERED ARCHITECT No. 14068  
 DC REGISTERED ARCHITECT No. ARC102373

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PROJECT:

CAMDEN COUNTY  
 RENOVATION & MODERNIZATION  
 REGAN BUILDING

508 LAKELAND ROAD  
 BLACKWOOD, NEW JERSEY 08012  
 CAMDEN COUNTY, NEW JERSEY

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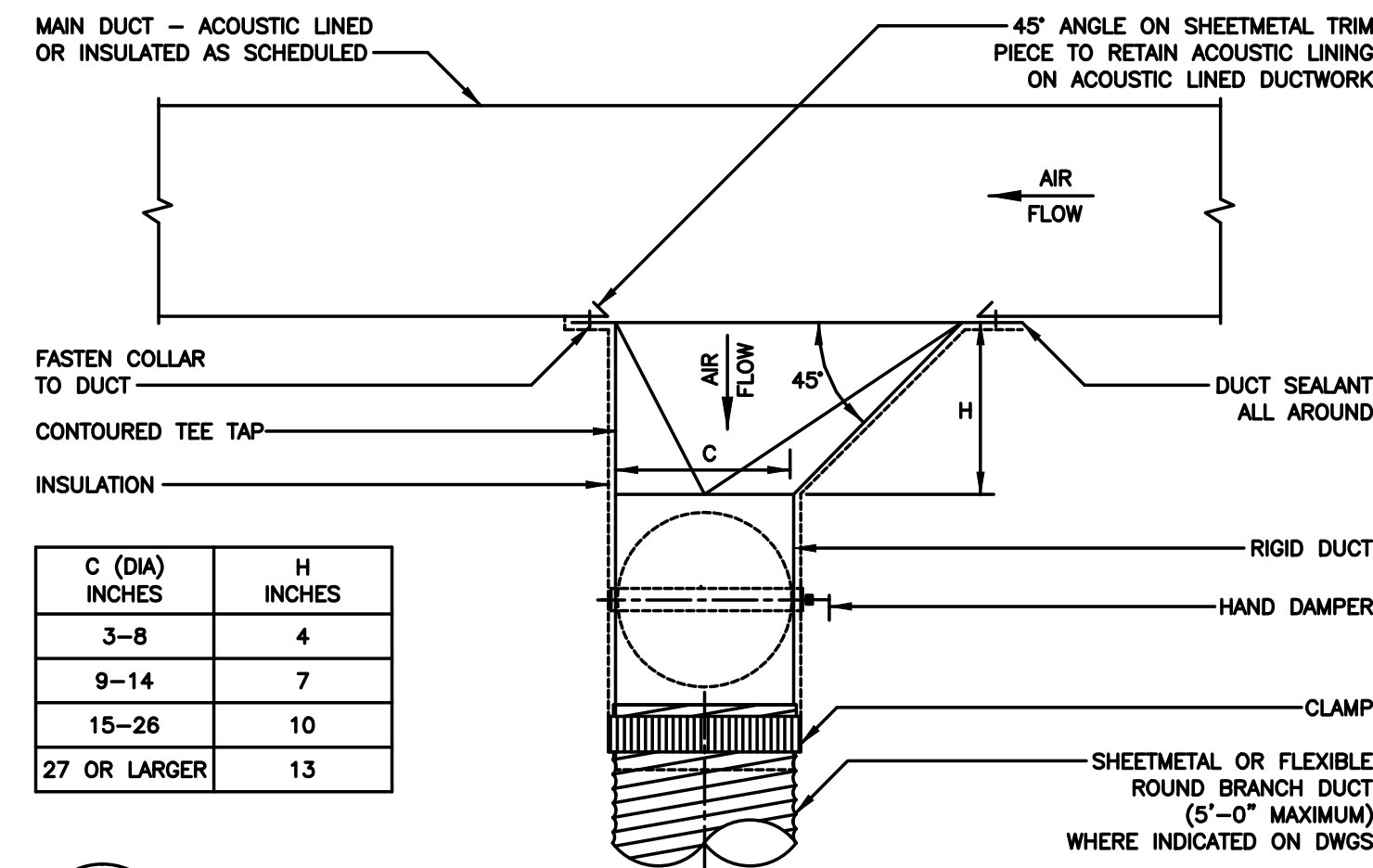
REVISIONS		
NO.	DESCRIPTION	DATE

DRAWING TITLE:  
**MECHANICAL SCHEDULES AND NOTES**

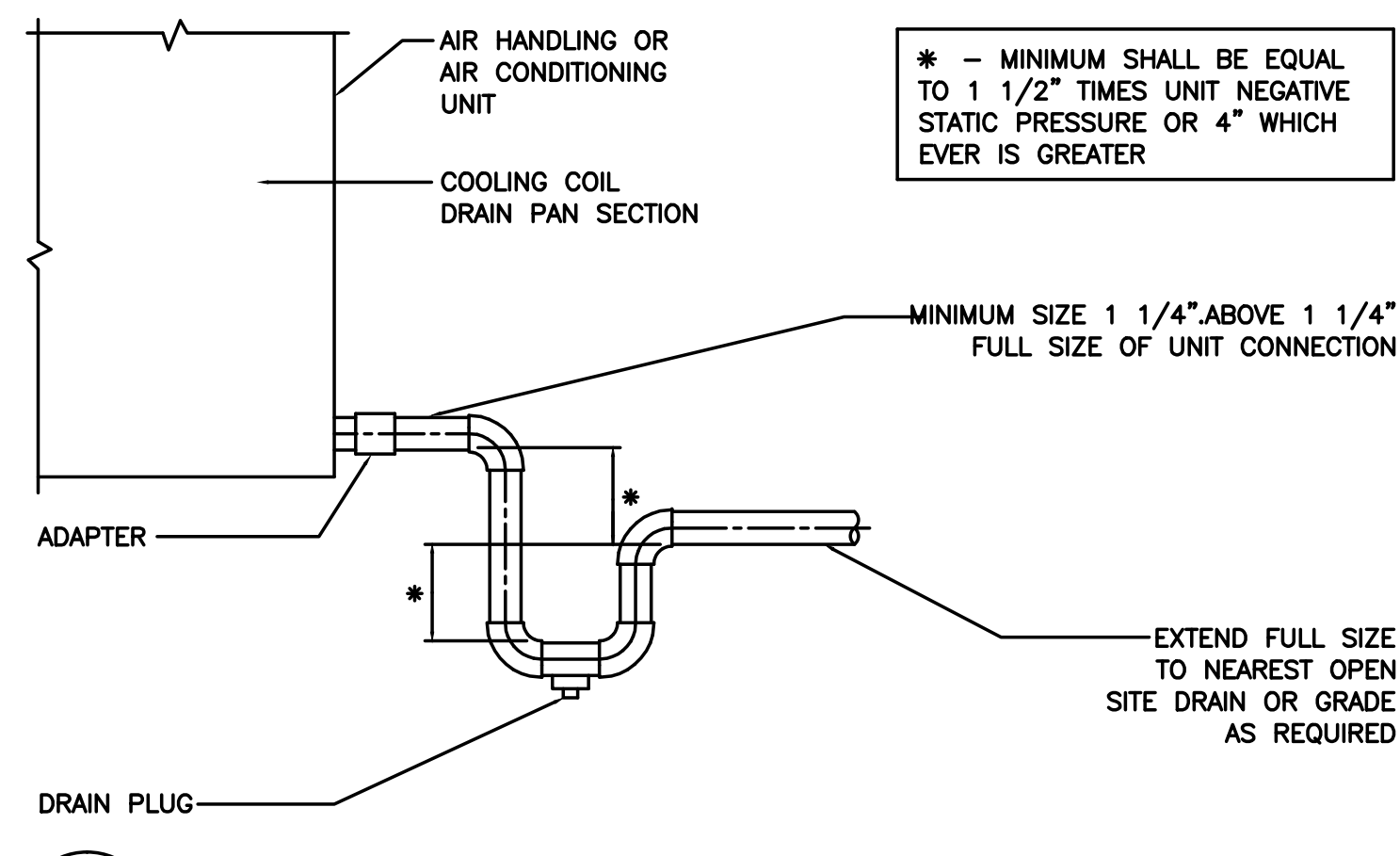
JOB NO: C02A020-02  
 DESIGNED BY: DMS/AMH/RV/BMG  
 DATE: OCTOBER 19, 2020  
 DRAWN BY: DMS/AMH/AM  
 SCALE: AS NOTED  
 CHECKED BY: SMB/DMS/AMH  
 DRAWING NUMBER:

BHG CONSULTING ENGINEERS, INC.  
 1812 S. 22ND STREET  
 PHILADELPHIA, PA 19145  
 PHONE: (215) 755-9318  
 FAX: (215) 755-9319

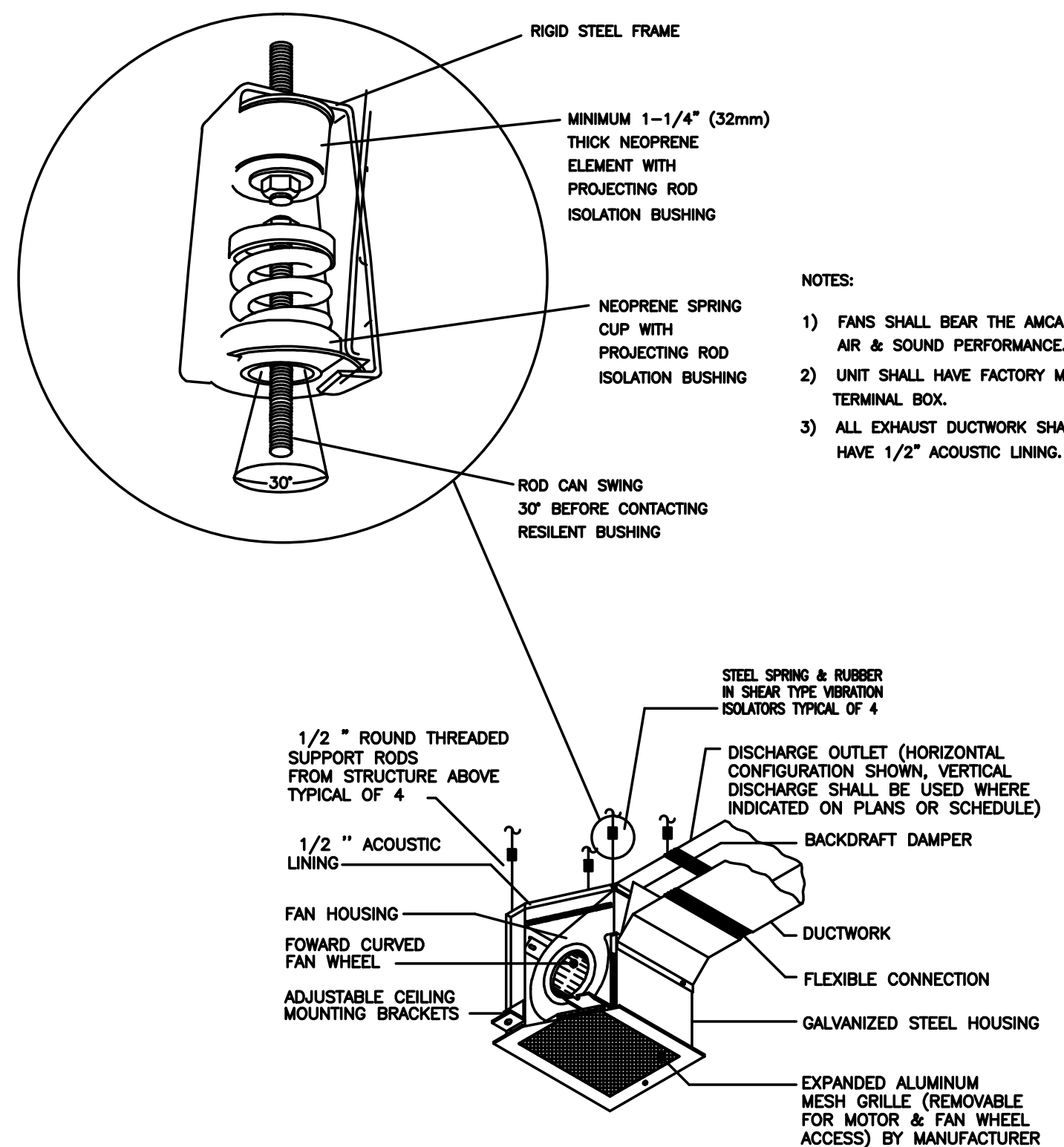
M-3.0



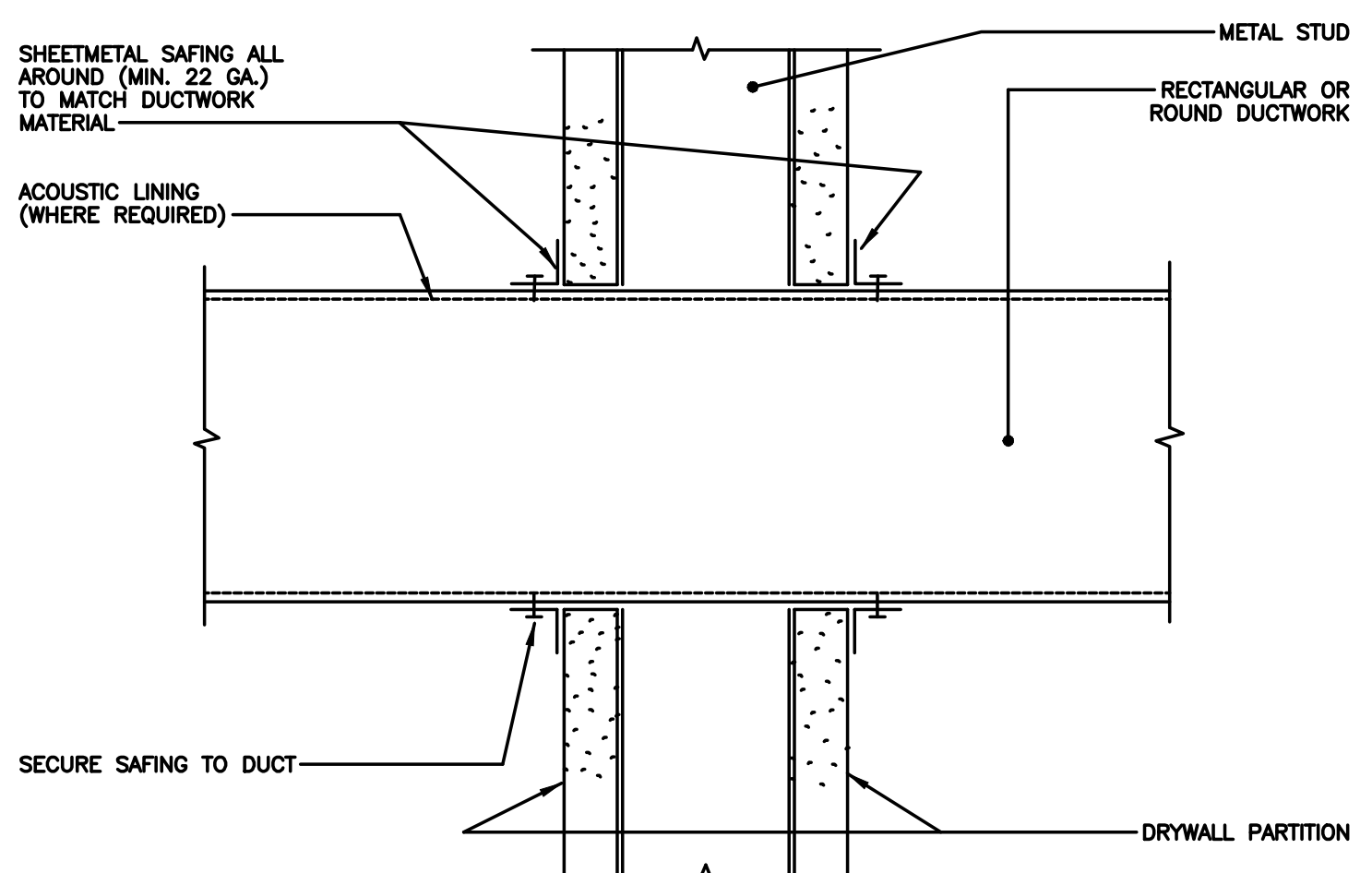
1 M4.0 DETAIL - CONTOURED TEE TAP BRANCH DUCT TAKE-OFF NO SCALE



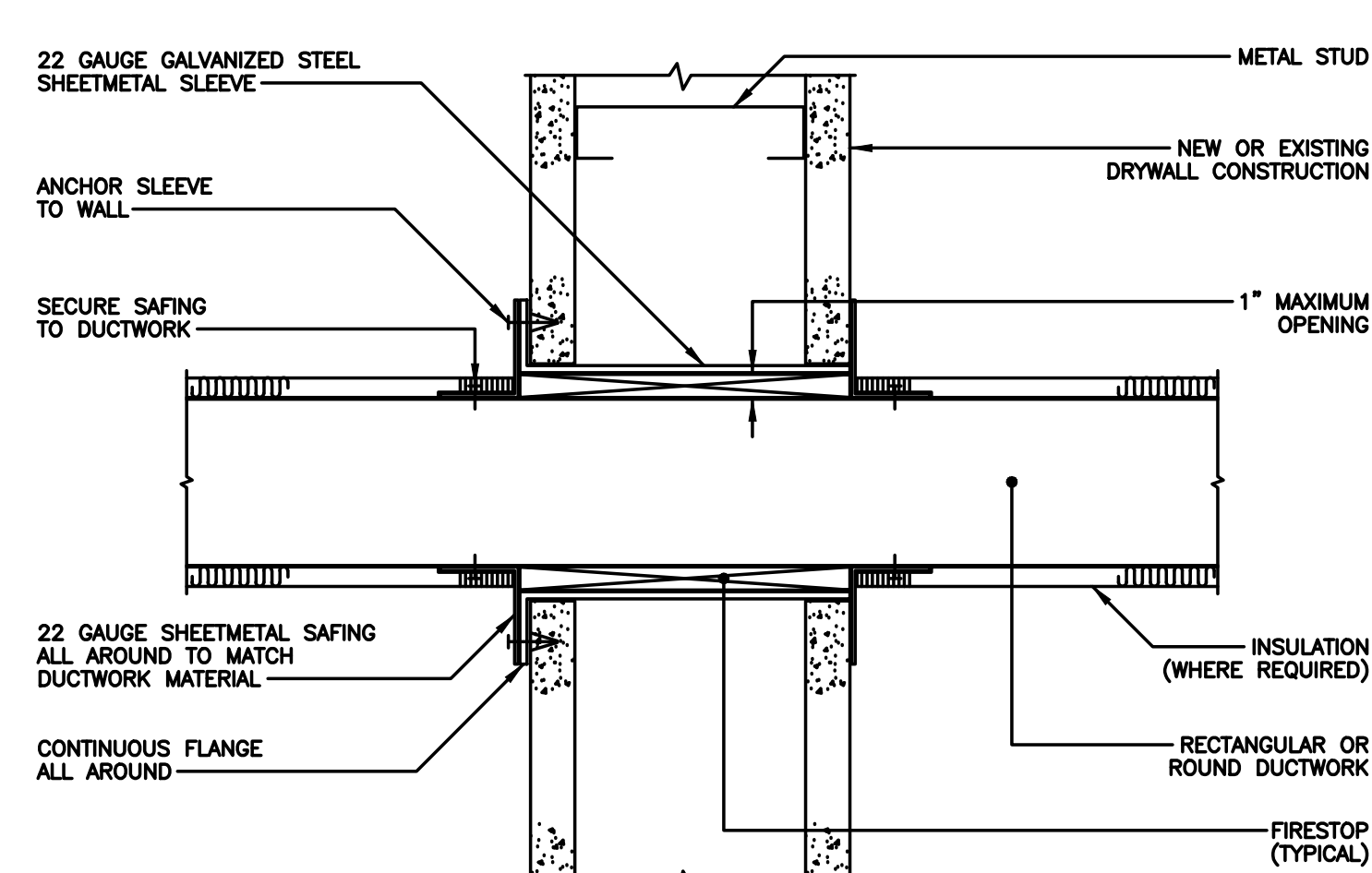
2 M4.0 DETAIL - CONDENSATE DRAIN NO SCALE



7 M4.0 DETAIL - CEILING EXHAUST FAN SCALE: NONE



5 M4.0 DETAIL - DUCT PENETRATION, NON-FIRE RATED WALLS ONLY (LINED OR BARE DUCTS) NO SCALE



6 M4.0 DETAIL - DUCT PENETRATION "1/2 HOUR" RATED WALLS ONLY NO SCALE



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DETAILS**

JOB NO: CCM2020-02  
DATE: OCTOBER 19, 2020  
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DRAWN BY: DMS/AMW/AM  
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**PLUMBING ABBREVIATIONS**

ACD	ACCESS DOOR	INV	INVERT
A	AIR	INH	INSTANTANEOUS WATER HEATER
ACL	ABOVE CEILING LEVEL	JP	JOCKEY PUMP
AD	AREA DRAIN (EXPOSED TO RAIN)	ZKS	KITCHEN SINK (2 COMPARTMENT)
AFF	ABOVE FINISHED FLOOR	KS OR K	KITCHEN SINK
AFR	ABOVE FIXTURE RIM	LAV OR L	LAVATORY
ARL	ABOVE ROOF LEVEL	LP	LOW PRESSURE
BCL	BELOW CEILING LEVEL	LS	LEVEL SENSOR
BCT	BELOW COUNTER TOP	LWM	LAUNDRY WASHER MACHINE
BFL	BELOW FLOOR LEVEL	M	METER
BFP	BACKFLOW PREVENTER	MECH	MECHANICAL
BLJ	BELOW JOISTS	MH	MANHOLE
BP	BOOSTER PUMP	MP	MEDIUM PRESSURE
BWJ	BETWEEN JOISTS	MR	MOP RECEPTOR
BLR	BOILER (STEAM ONLY)	MV	MIXING VALVE
BWV	BACKWATER VALVE	N	NORTH
C OR COND	CONDENSATE	NG	NATURAL GAS
CD	CONDENSATE DRAIN	O	OXYGEN
CF	CHEMICAL FEED	O/H	OVERHEAD
CHWS/R	CHILLED WATER SUPPLY/RETURN	OVF	OVERFLOW
CP	CIRCULATOR PUMP	PI	PRESSURE INDICATOR
CS	CLINIC SINK	PRV	PRESSURE REDUCING VALVE
DCW/HW	DOMESTIC COLD WATER/HOT WATER (POTABLE)	PW	PURE WATER
DHWS/R	DOMESTIC HOT WATER SUPPLY/RETURN	RD	ROOF DRAIN
DD	DECK DRAIN	RH	RADIANT HEATER
DF	DRINKING FOUNTAIN	RM	ROOM
DFU	DRAIN FIXTURE UNIT	RO	REVERSE OSMOSIS
DP	DUPLEX PUMP	RTC	RUNNING TRAP WITH CLEANOUT
DR	DOOR	RV	RELIEF VALVE
DSTP	DRY STANDPIPE	RWC	RAIN WATER CONDUCTOR
DV	DRY VENT	S	SOUTH OR STEAM
DVC	DRY VENT CONNECTION (ABOVE FIXTURE RIM LEVEL)	SAN	SANITARY/WASTE
DWH	DOMESTIC WATER HEATER (POTABLE)	SF	SQUARE FOOT
DWM	DISH WASHER MACHINE	SFU	SUPPLY FIXTURE UNIT
E	EAST	SH OR S	SHOWER
(E)	EXISTING	SLV	SOLENOID VALVE
EL	ELEVATION (STRUCTURAL HEIGHT)	SP	SUMP PUMP OR SEWAGE PUMP
EW	EYE WASH	SS	SERVICE SINK OR LAUNDRY SINK OR STAINLESS STEEL
EWC	ELECTRIC WATER COOLER	ST	STORM WATER
EXP	EXPANSION TANK	STK	STACK
FAI	FRESH AIR INTAKE	STM	STEAM
FCO	FLOOR CLEANOUT	SV	SAFETY VALVE
FCW	FILTERED COLD WATER	TD	TRENCH DRAIN OR THERMO DYNAMIC
FD	FLOOR DRAIN (NOT EXPOSED TO RAIN)	TEA	THERMAL EXPANSION ABSORBER
FHC	FIRE HOSE CONNECTION	TI	TEMPERATURE INDICATOR
FND	FUNNEL DRAIN	TP	TRAP PRIMER
FP	FIRE PUMP	TS	TEMPERATURE SENSOR
FS	FLOOR SINK	T	TUB OR TRAP
FW	FIRE WATER	U/G	UNDERGROUND
FWG	FOOD WASTE GRINDER	UR	URINAL
FT	FLOAT & THERMOSTATIC	V	VACUUM
FU	FIXTURE UNIT	VB	VACUUM BREAKER
GHC	GARDEN HOSE CONNECTION	VBD	VALVE BOX AND DRAIN
GI	GREASE INTERCEPTOR	VR	VENT RISER (DRY VENT)
GD	GUTTER DRAIN	VST	VENT STACK
GWM	GLASS WASHER MACHINE	VT	VENT
HCO	HORIZONTAL CLEANOUT	VTR	VENT THROUGH ROOF
HI	HAIR INTERCEPTOR	W	WEST
HP	HIGH PRESSURE	WBP	WATER BOOSTER PUMP
HS	HAND SINK	WC OR W	WATER CLOSET
HWG	HOT WATER GENERATOR (HYDRONIC SYSTEM)	WCO	WALL CLEANOUT
HWS/R	HOT WATER SUPPLY/RETURN (HYDRONIC SYSTEM)	WHA	WATER HAMMER ARRESTOR
IB	INVERTED BUCKET	WP	WHIRLPOOL
IPS	IRON PIPE SIZE	WTSP	WET STANDPIPE
IKS	ISLAND KITCHEN SINK	YV	YOKE VENT
IW	INDIRECT WASTE	YVR	YOKE VENT RISER
		ZV	ZONE VALVE

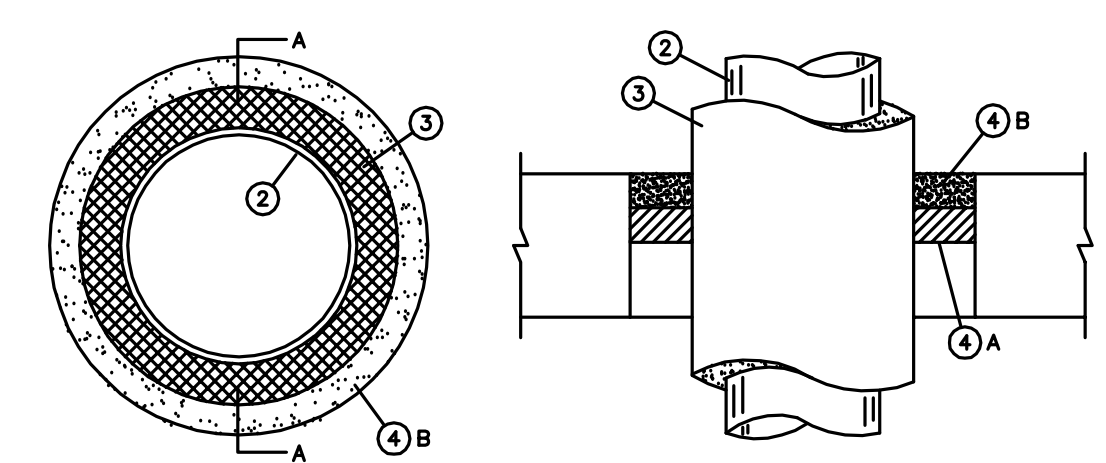
**PLUMBING LEGEND**

	BUTTERFLY VALVE
	ANGLE GLOBE VALVE
	SAFETY OR RELIEF VALVE
	GATE VALVE OR VALVE IN GENERAL
	BALL VALVE
	GLOBE VALVE
	BALANCING VALVE
	PRESSURE REDUCING VALVE (SPRING LOADED)
	PRESSURE REDUCING VALVE (PILOT TYPE)
	FLOOR/DECK OR AREA DRAIN
	FUNNEL DRAIN
	ROOF DRAIN
	90 DEG. ELBOW FAR FLOW
	90 DEG. ELBOW NEAR FLOW
	TEE NEAR FLOW
	TEE FAR FLOW
	PLUG VALVE
	BACKFLOW PREVENTER
	GARDEN HOSE/WASHDOWN OR FIRE DEP. HOSE CONNECTION
	COLD WATER
	DOMESTIC HOT WATER
	140°F DOMESTIC HOT WATER
	SANITARY SEWER - UNDER GROUND/SLAB/FLOOR
	STORM WATER
	VENT PIPING
	FIRE PROTECTION PIPE
	GAS PIPE
	PIPE CLEANOUT (HORIZONTAL OR WALL)
	PIPE CLEANOUT (GRADE OR FLOOR)
	FUNNEL DRAIN
	REDUCER
	FLOOR DRAIN, AREA DRAIN OR FLOOR SINK
	TEMPERATURE INDICATOR
	PRESSURE INDICATOR
	VALVE BOX AND DRAIN
	KITCHEN SINK WITH DISHWASHER MACHINE
	TARGET POINTING TO CONNECTION BETWEEN EXISTING AND NEW OR TO THE EXTENT OF DEMOLITION

**PLUMBING NOTES**

- THE PRIORITY OF ILLUSTRATED PIPING ON PLANS IS TO SHOW CLEARLY THE SERVICE FROM ONE POINT TO ANOTHER WITH MINIMUM OR NO OBSTRUCTION BY THE BACKGROUND. PHYSICALLY THE PIPE RUNS ARE INSTALLED INSIDE WALLS, ABOVE CEILING OR WITHIN PIPE CHASES. ARCHITECT SHALL REVIEW AND APPROVE THE FINAL LOCATION OF PLUMBING COMPONENTS WHERE THEY AFFECT ARCHITECTURAL FINISHES.
- UNLESS THE INSTALLATION IS DIMENSIONED, DRAWINGS ARE DIAGRAMMATIC AND INDICATING THE GENERAL ARRANGEMENT OF PIPING NETWORK TO BE PERFORMED. ALL MINOR DETAILS ARE NOT SHOWN ON PLANS OR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF ALL SYSTEMS, SHALL BE PROVIDED BY THE CONTRACTOR WITH NO ADDITIONAL CHARGES TO THE OWNER.
- DOMESTIC WATER SERVICE TO FAUCETS OR EQUIPMENT (COLD AND HOT) SHALL BE 1/2" PIPE SIZE UNLESS NOTED OTHERWISE. ALL FIXTURES AND EQUIPMENT SHALL HAVE ONE FULL PORT AND PIPE SIZE SHUTOFF VALVE PER PIPE CONNECTION FOR MAINTENANCE PURPOSE. ALL DOMESTIC SERVICES SHALL BE INSULATED.
- PLUMBING CONTRACTOR SHALL CHECK AND VERIFY ALL MEASUREMENTS, ILLUSTRATED PIPING LOCATIONS AND AREAS AFFECTED BY STRUCTURAL, MECHANICAL AND ELECTRICAL CONDITIONS PRIOR TO PRECEDING WITH DEMOLITION AND/OR NEW WORK. ANY CONFLICT OR DISCREPANCY BETWEEN SUBMITTED DRAWINGS AND FIELD CONDITION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEERS WITHOUT DELAY.
- AVOID INSTALLING WATER SERVICE PIPE IN EXTERNAL WALL DUE TO FREEZING CONDITION. (ELECTRICAL HEAT TRACE FOR PIPING IS EXPENSIVE AND NOT RELIABLE, SHALL BE CONSIDERED ONLY AS A LAST RESOURCE.)
- INSULATION ON WATER PIPE DOES NOT PREVENT FREEZING, IT ONLY EXTENDS THE SOLIDIFICATION TIME. WHERE WATER SERVICE IS NEAR EXTERIOR WALL, PROVIDE STUDDED PARTITION FLUSH TO THE EXTERIOR WALL. APPLY INSULATION ON THE EXTERIOR WALL SIDE OF THE PARTITION WITH NO INSULATION ON THE ROOM SIDE.
- ALL SANITARY PIPING LAID BELOW SURFACE OF FREEZING TEMPERATURE SHALL HAVE MINIMUM 3'-0" COVER.

SYSTEM No. CAJ5001  
 F RATINGS - 1-1/2, 2 AND 3 Hr (SEE ITEM 4)  
 T RATINGS - 0, 1/2, 3/4, AND 1 Hr (SEE ITEM 4)



- STEEL PIPE - NOM. 1/2 IN. DIAM. (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE CENTERED IN THE OPENING AND RIGIDLY SUPPORTED ON BOTH SIDES OF THE FLOOR OR WALL ASSEMBLY.
- PIPE COVERING\* - NOM. 1 OR 2 IN. THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN. 3.5 pcf) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OF FACTORY - APPLIED SELF - SEALING LAP TAPE. TRANSVERSE JOINTS SECURED WITH METAL FASTENERS OR WITH BUTT STRIP TAPE SUPPLIED WITH THE PRODUCT. SEE PIPE AND EQUIPMENT COVERING - MATERIAL\* (BRGU) CATEGORY IN BUILDING MATERIAL FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE SPECIFICATION AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.
- FIRESTOP SYSTEM - THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:  
 A. PACKING MATERIAL - MIN. 1 IN. THICKNESS OF FIRMLY PACKED MINERAL WOOL BATT INSULATION USED AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM B).  
 B. FILL, VOID OR CAVITY MATERIALS\* - CAULK - APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH THE TOP SURFACE OF THE FLOOR OR FLUSH WITH BOTH SURFACES OF WALL, WHEN NOM. PIPE COVERING THICKNESS IS 2 IN., MIN. THICKNESS OF CAULK FILL MATERIAL IS 1 IN. THE HOURLY F AND T RATINGS OF THE FIRESTOP SYSTEM ARE DEPENDENT UPON THE THICKNESS OF THE FLOOR OR WALL, THE SIZE OF PIPE, THE THICKNESS OF PIPE COVERING MATERIAL, THE SIZE OF THE ANNULAR SPACE (BETWEEN THE PIPE COVERING MATERIAL) AND THE EDGE OF THE CIRCULAR THROUGH OPENING AND THE FILL MATERIAL TYPE, AS SHOWN IN THE FOLLOWING TABLES.

MIN. FLOOR OR WALL THICKNESS IN.	MAXIMUM PIPE DIAMETER IN.	NOM. PIPE COVERING THICKNESS IN.	ANNULAR SPACE IN.	CAULK FILL MATERIAL TYPE	F - RATING	T - RATING
2-1/2"	4"	1"	5/8 TO 7/8	CP-25 N/S CP-25 S/L OR CP-25 WB	2	1
4-1/2"	4"	2"	1-1/2 TO 2	CP-25 N/S CP-25 S/L OR CP-25 WB	3	1
2-1/2"	12"	1"	5/8 TO 1	CP-25 N/S CP-25 S/L	2	0
2-1/2"	12"	1"	1/2 TO 1-1/2	CP-25 WB+	2	1/2
4-1/2"	12"	1"	1 TO 1-1/2	CP-25 N/S OR CP-25 S/L	2	1/2
4-1/2"	12"	1"	1 TO 1-1/2	CP-25 WB	1-1/2	3/4

MINNESOTA MINING & MFG. CO. - TYPE CP-25 N/S, CP-25 WB+ BEARING THE UL CLASSIFICATION MARKING.

**2**  
**P1.0** **DETAIL - PIPE PENETRATION**  
 SCALE: NTS

**PLUMBING SHEET NOTES:**

- EXISTING DOMESTIC WATER LINES TO REMAIN. VERIFY EXACT LOCATION IN FIELD AND PROTECT DURING CONSTRUCTION.
- CONNECT EXISTING HOT AND COLD WATER LINES TO NEW DOMESTIC WATER HEATER. VERIFY EXACT LOCATION OF EXISTING WATER LINES IN FIELD AND PROTECT DURING CONSTRUCTION.
- EXISTING PLUMBING FIXTURE TO REMAIN. PROTECT DURING CONSTRUCTION.
- EXISTING SANITARY LINE TO REMAIN. VERIFY EXACT LOCATION IN FIELD AND PROTECT DURING CONSTRUCTION.
- EXISTING VENT LINE TO REMAIN. VERIFY EXACT LOCATION IN FIELD AND PROTECT DURING CONSTRUCTION.
- EXISTING GREASE INTERCEPTOR TO REMAIN. VERIFY EXACT LOCATION IN FIELD AND PROTECT DURING CONSTRUCTION.
- EXISTING NATURAL GAS LINE TO REMAIN. VERIFY EXACT LOCATION IN FIELD AND PROTECT DURING CONSTRUCTION.
- GAS LINE TO GAS FIRED HEATING APPLIANCE WITH 6" SEDIMENT LEG AND GAS SHUT OFF VALVE.
- PROVIDE "TRAP GUARDS" AS MANUFACTURED BY PROVENT ON ALL FLOOR DRAINS, UNLESS NOTED OTHERWISE.
- PROVIDE A 3-WAY THERMOSTATIC VALVE WITH A DISCHARGE HOT WATER TEMPERATURE OF 120 DEG. F. (ADJUSTABLE).

**PLUMBING GENERAL NOTES:**

- CONTRACTOR SHALL SAWCUT EXISTING SLAB AS REQUIRED TO INSTALL NEW SANITARY BELOW SLAB. CONTRACTOR TO REPAIR SLAB PER DETAIL ON STRUCTURAL PLANS.
- WHEREVER POSSIBLE, RUN NEW SANITARY LINES BETWEEN JOIST IN CAVITY.

**GAS FIRED TANKLESS DOMESTIC WATER HEATER SCHEDULE** SYMBOL

NO.	STORAGE CAPACITY GALLONS	RECOVERY AT 100°F GALLONS	GAS HEATING CAPY. MBH	MANUFACTURE AND MODEL NUMBER	REMARKS
1	100	335	300.0	BRADFORD WHITE EF-100T-300E-3N(A)	① ②

① WITH P AND T REIELF VALVE, PIPE TO FLOOR DRAIN  
 ② AIR INTAKE AND VENT PER MANUFACTURES REQUIREMENTS



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 DE REGISTERED ARCHITECT No. S5-0007528  
 NY REGISTERED ARCHITECT No. 029608-1  
 CT REGISTERED ARCHITECT No. ARI.10403  
 MD REGISTERED ARCHITECT No. 14068  
 DC REGISTERED ARCHITECT No. ARC102373

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SCALE: AS NOTED	CHECKED BY: SMB/DM3/AW
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**P-1.0**



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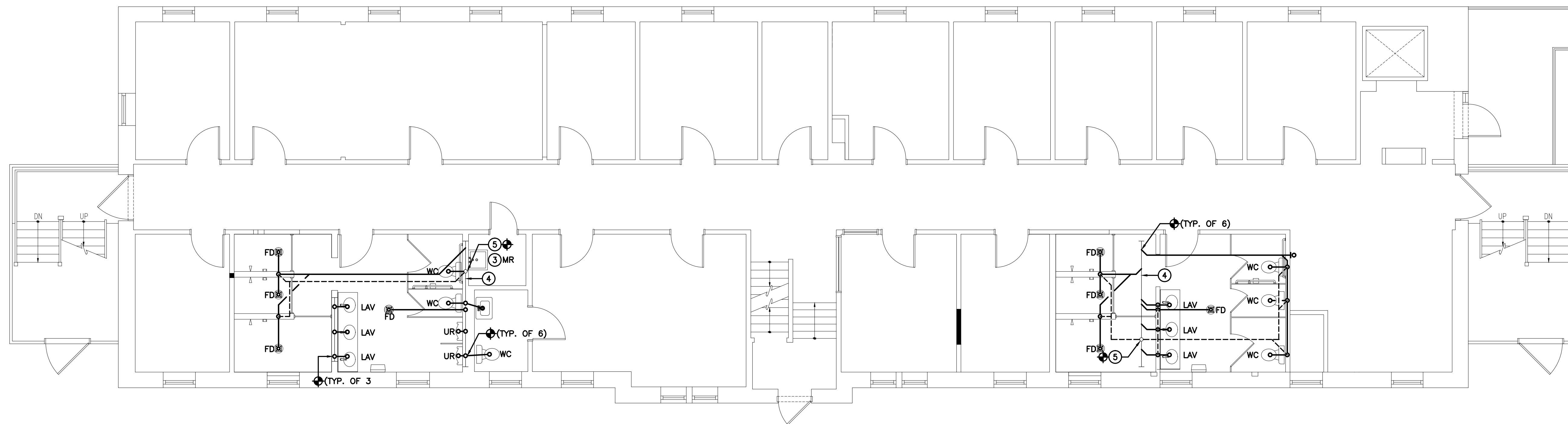
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NO.	DESCRIPTION	DATE

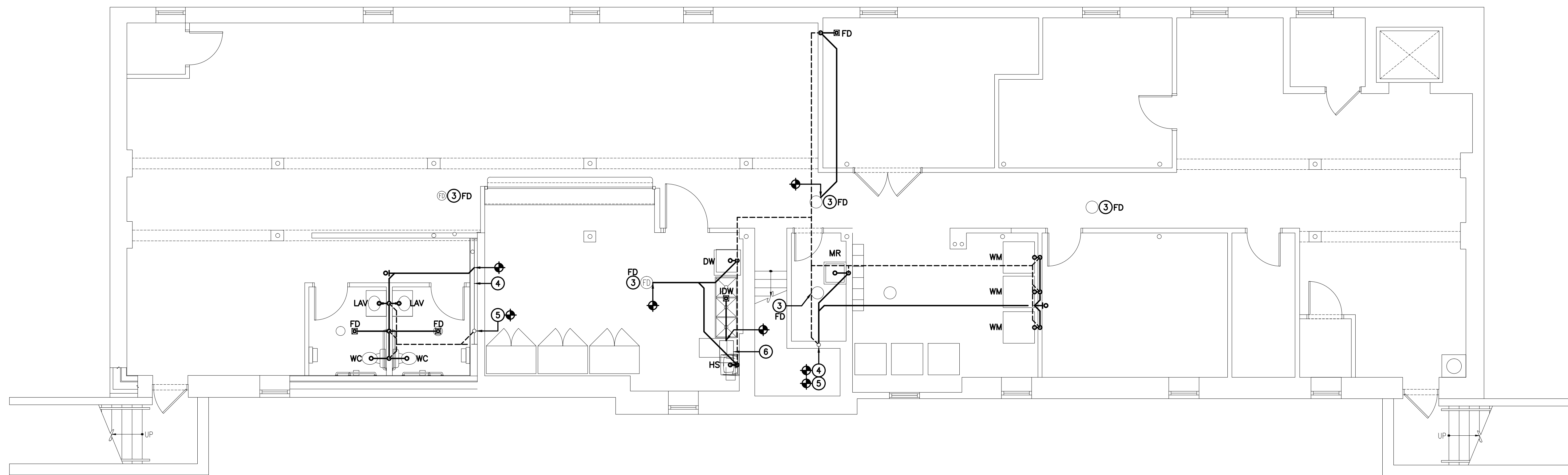
DRAWING TITLE:  
**PLUMBING  
FLOOR PLANS  
WASTE & VENT**

JOB NO: XXX	DESIGNED BY: DMS
DATE: OCTOBER 19, 2020	DRAWN BY: AM
SCALE: AS NOTED	CHECKED BY: DMS
DRAWING NUMBER:	

**P-2.0**



**1** FIRST FLOOR PLUMBING PLAN  
P-2.0 SCALE: 3/16"=1'-0"



**1** BASEMENT PLUMBING PLAN  
P-2.0 SCALE: 3/16"=1'-0"

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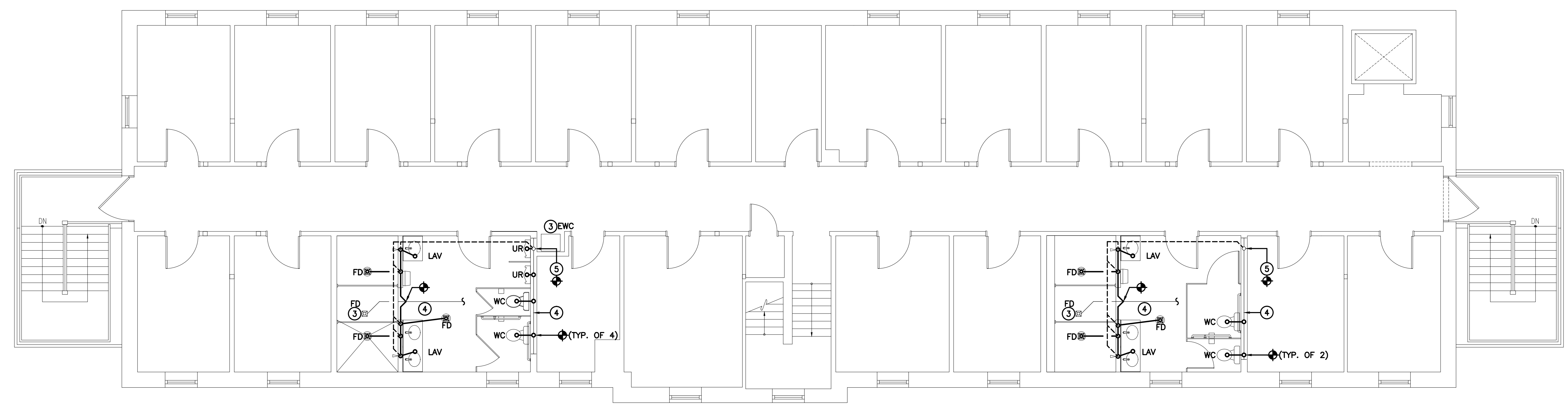
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**PLUMBING  
FLOOR PLANS  
WASTE & VENT**

JOB NO: CCM2020-02	DESIGNED BY: DMS/AMW/RH/BMG
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**1 SECOND FLOOR PLUMBING PLAN**  
P-2.0 SCALE: 3/16"=1'-0"

**P-2.1**







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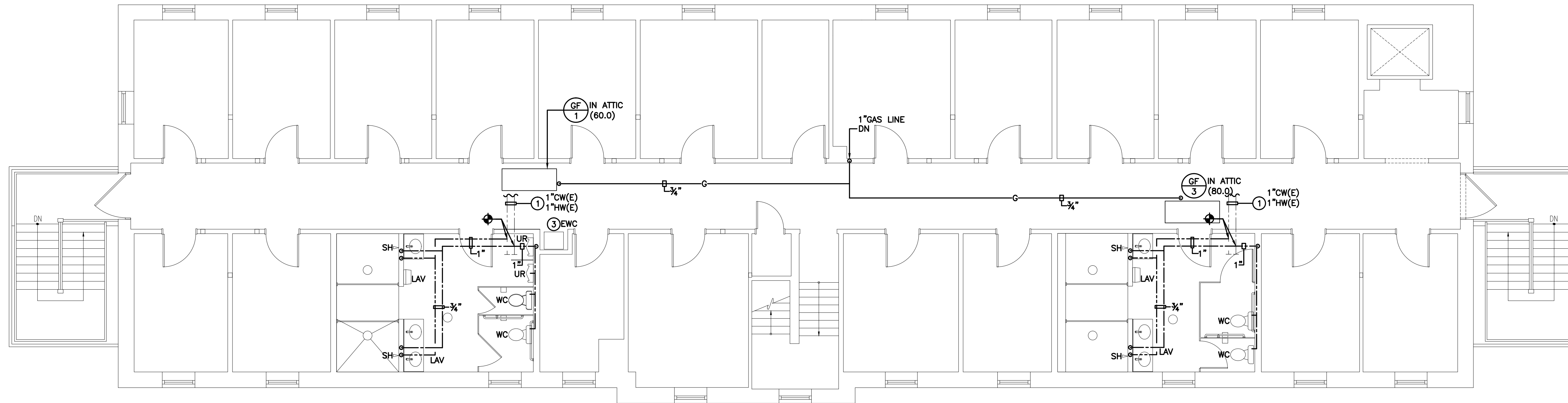
NO.	DESCRIPTION	DATE

DRAWING TITLE:

**PLUMBING  
FLOOR PLANS  
WATER & GAS**

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**P-2.3**



**1 SECOND FLOOR PLUMBING PLAN**  
P-2.0 SCALE: 3/16"=1'-0"

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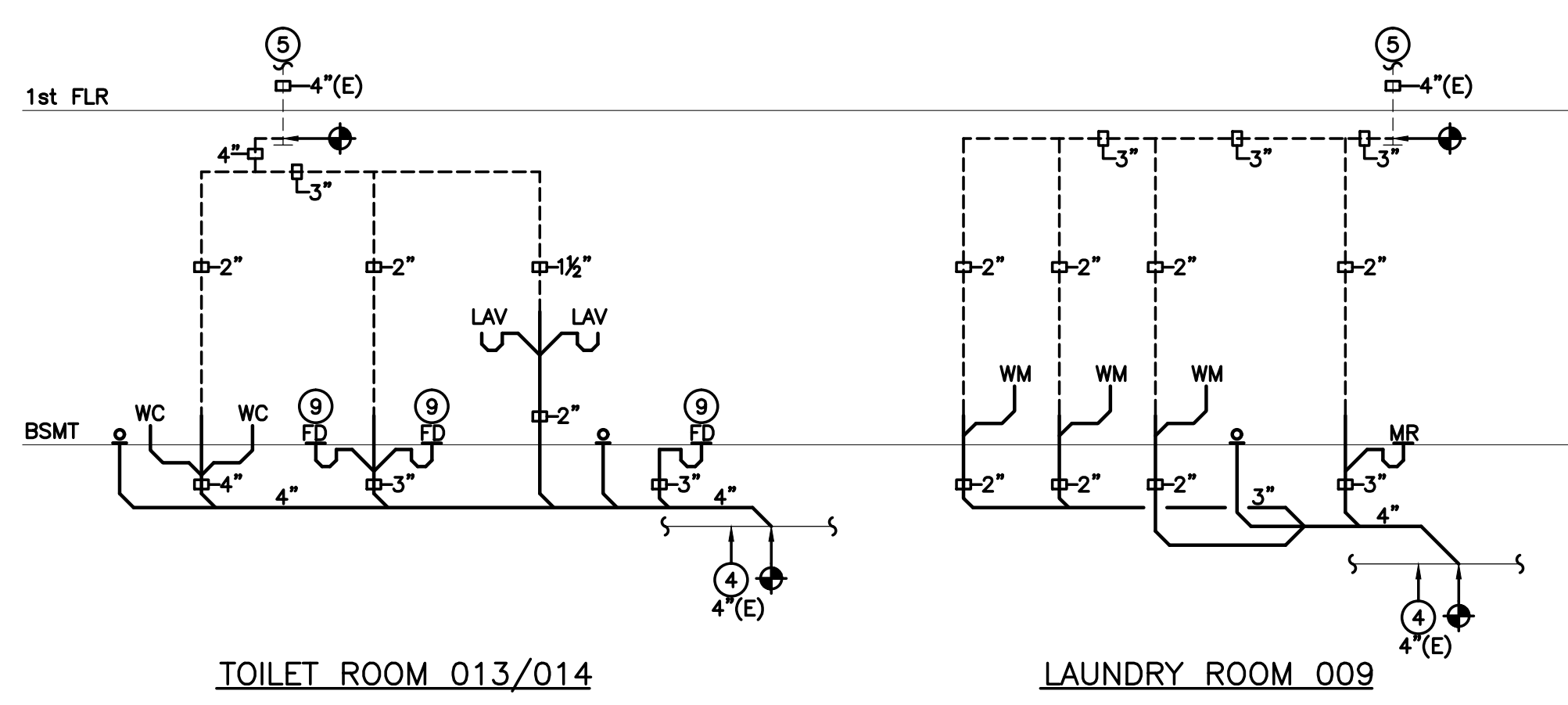
DRAWING TITLE:

**SANITARY RISER DIAGRAMS**

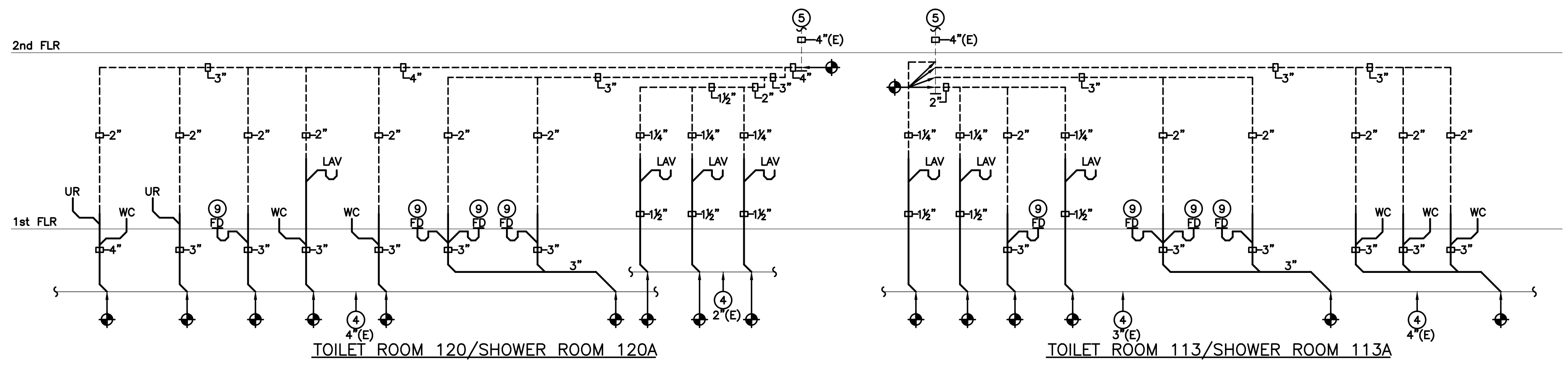
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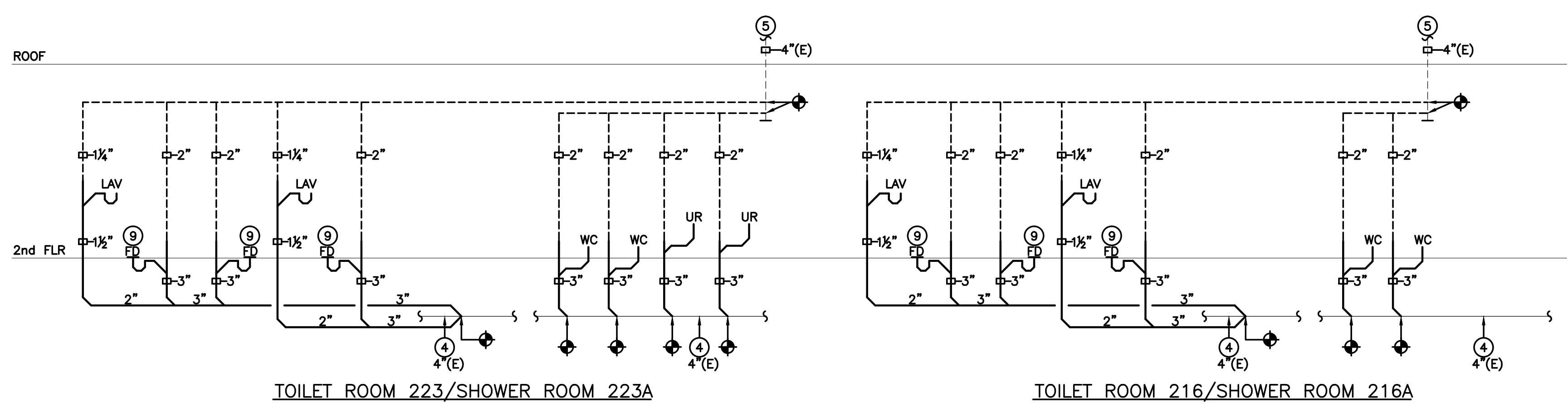
**P-3.0**



**1 SANITARY RISER DIAGRAMS**  
P-3.0 SCALE: NTS



**2 SANITARY RISER DIAGRAMS**  
P-3.0 SCALE: NTS



**3 SANITARY RISER DIAGRAMS**  
P-3.0 SCALE: NTS



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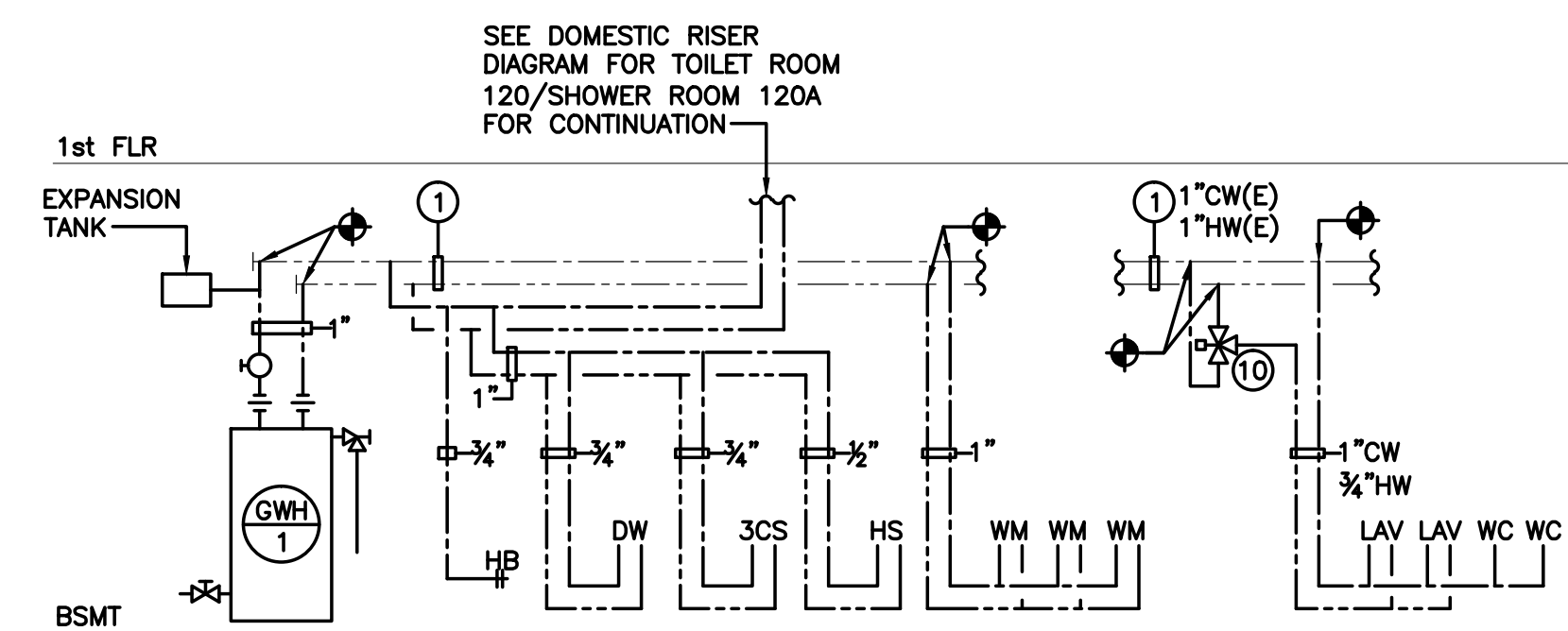
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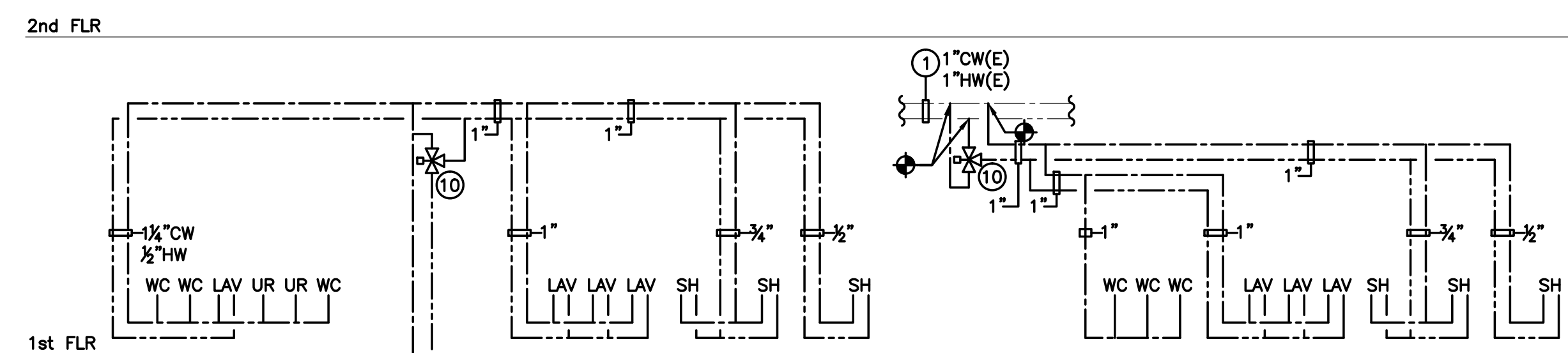
**DOMESTIC WATER  
GAS PIPING  
RISER  
DIAGRAMS**

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**P-3.1**



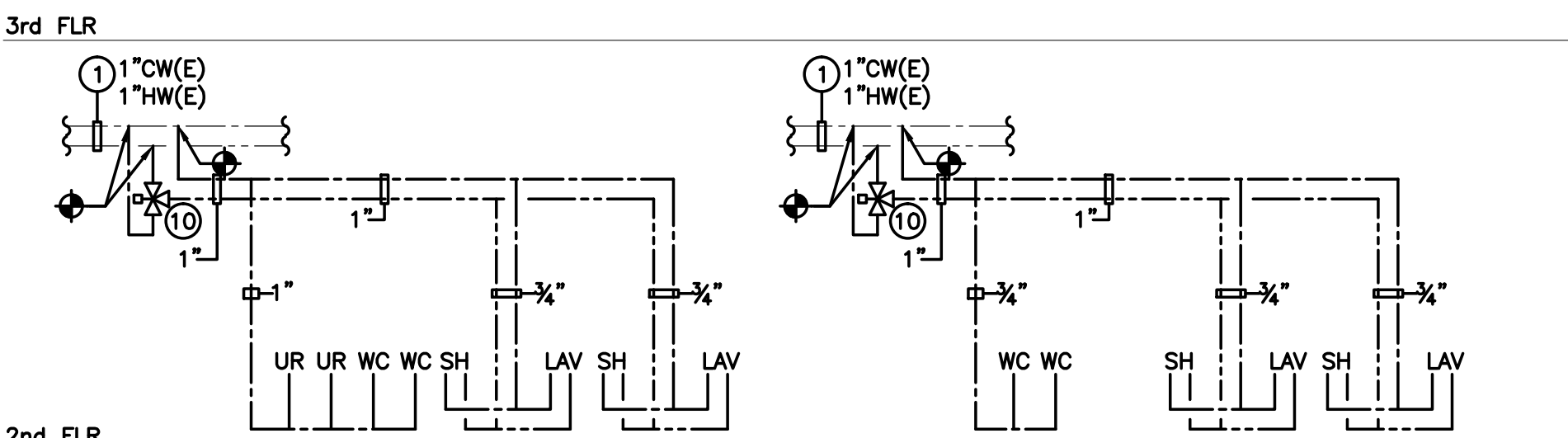
BASEMENT



TOILET ROOM 120/SHOWER ROOM 120A

TOILET ROOM 113/SHOWER ROOM 113A

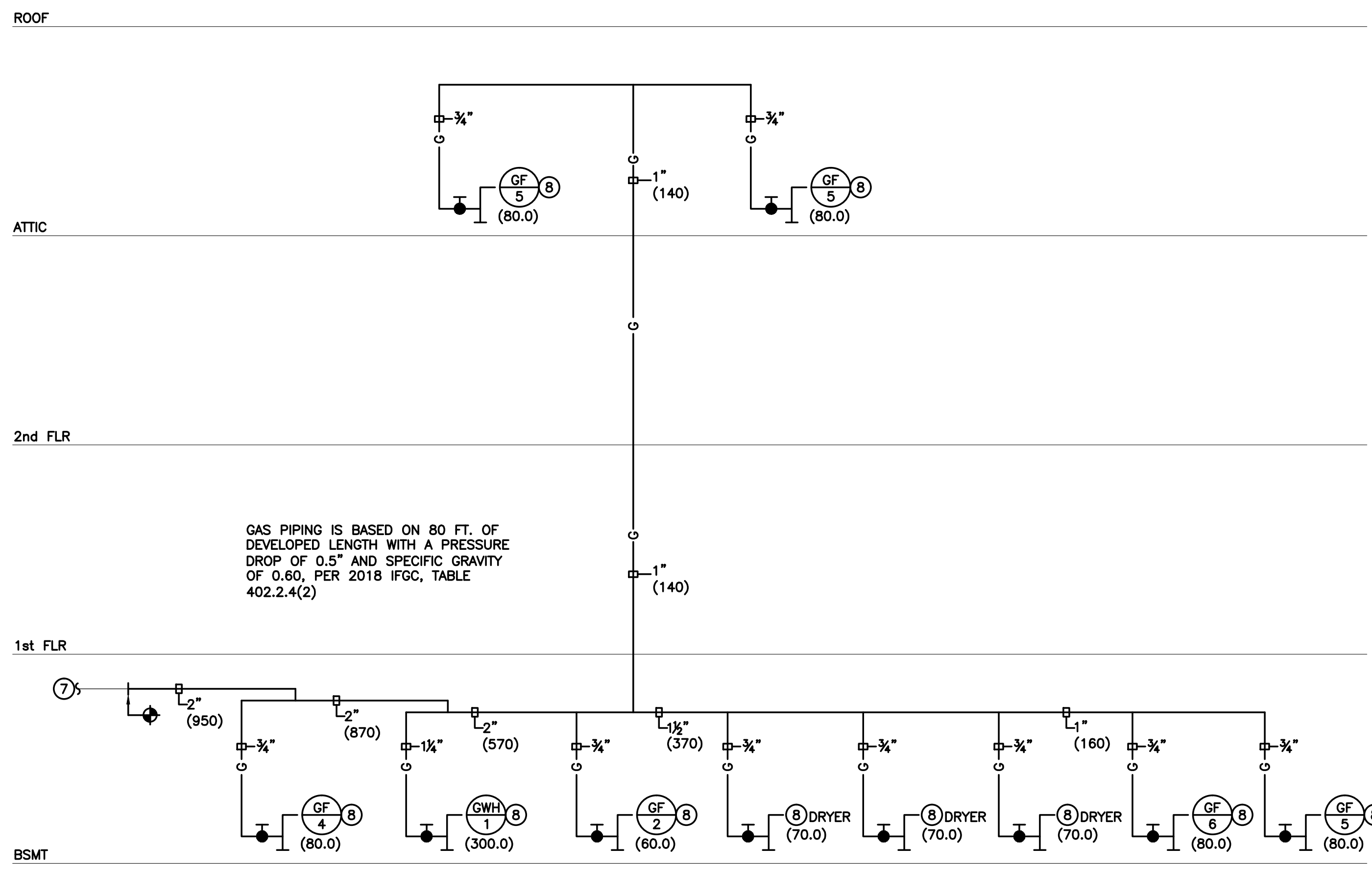
**1 DOMESTIC WATER RISER DIAGRAMS**  
SCALE: NTS



TOILET ROOM 223/SHOWER ROOM 223A

TOILET ROOM 216/SHOWER ROOM 216A

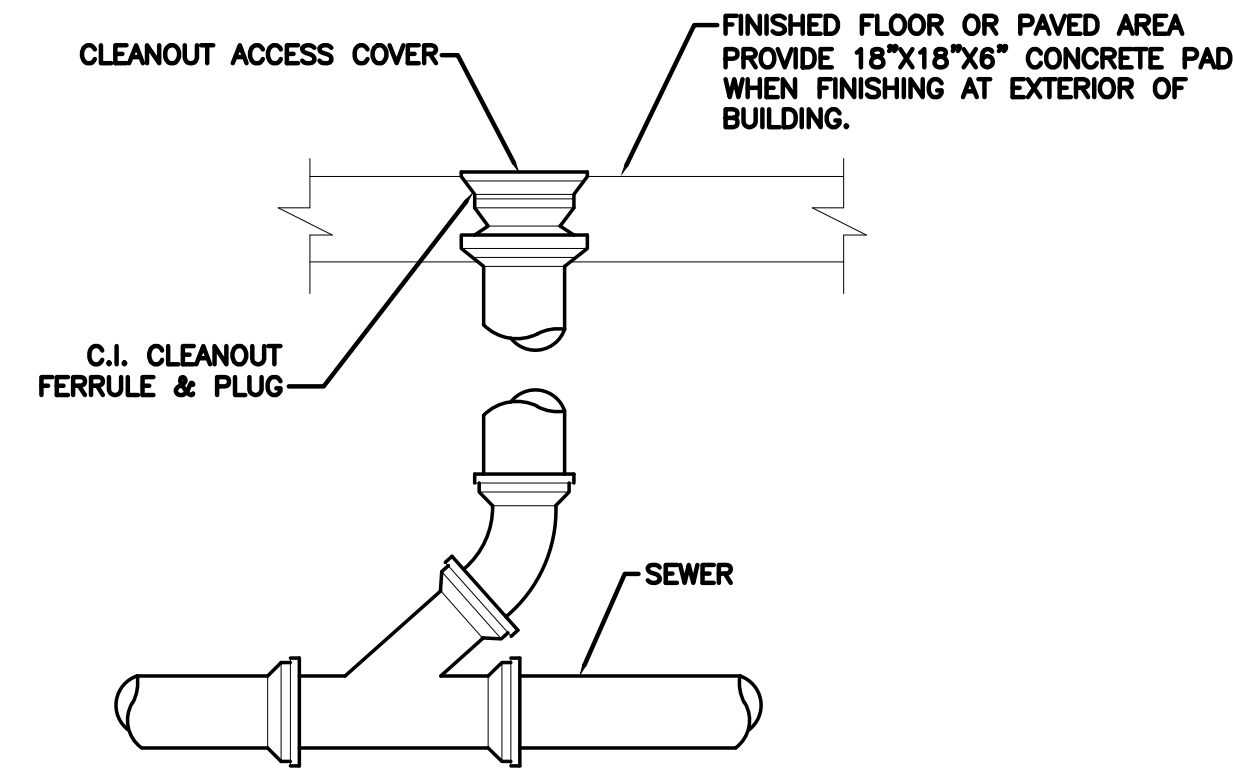
**2 DOMESTIC WATER RISER DIAGRAMS**  
SCALE: NTS



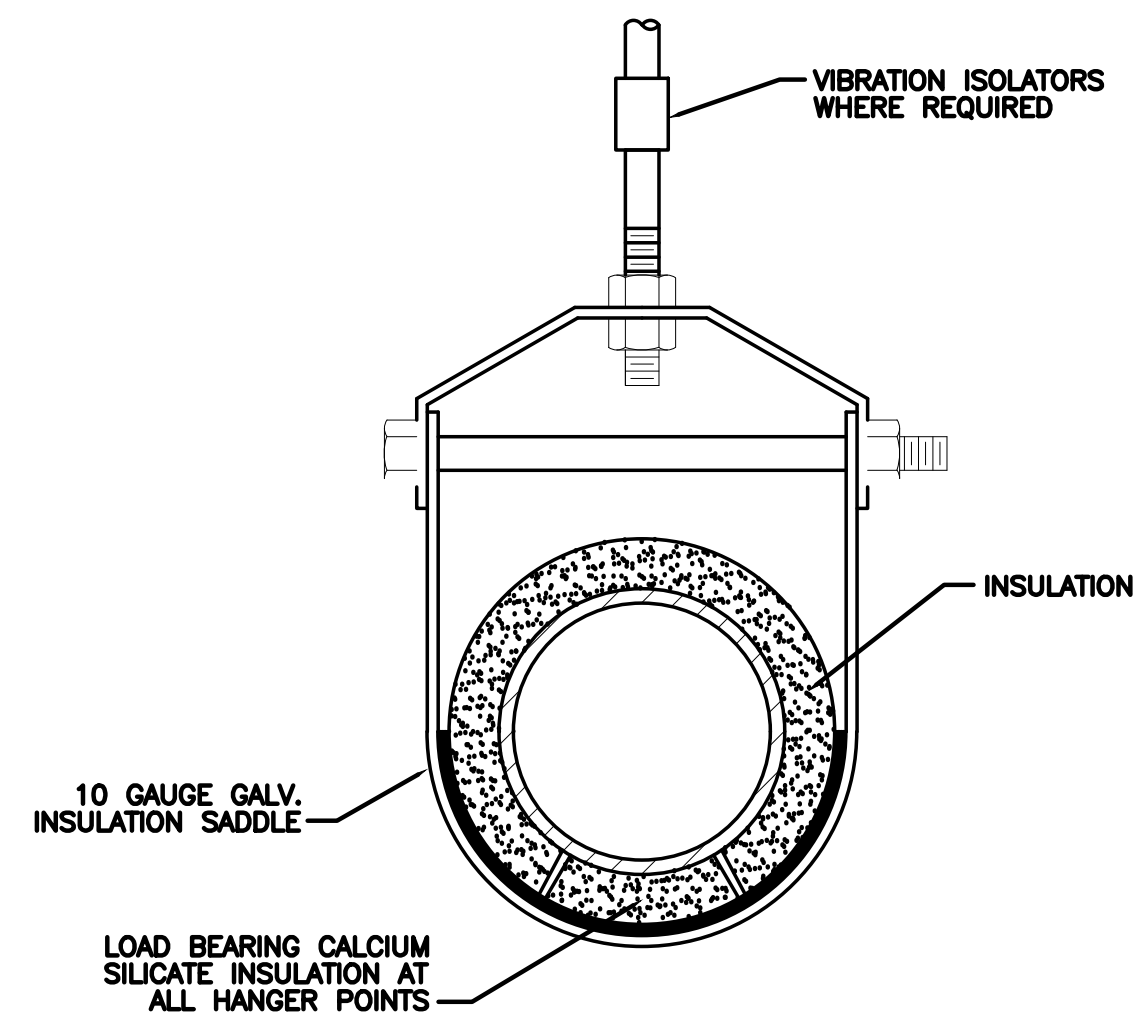
**3 GAS PIPING RISER DIAGRAMS**  
SCALE: NTS

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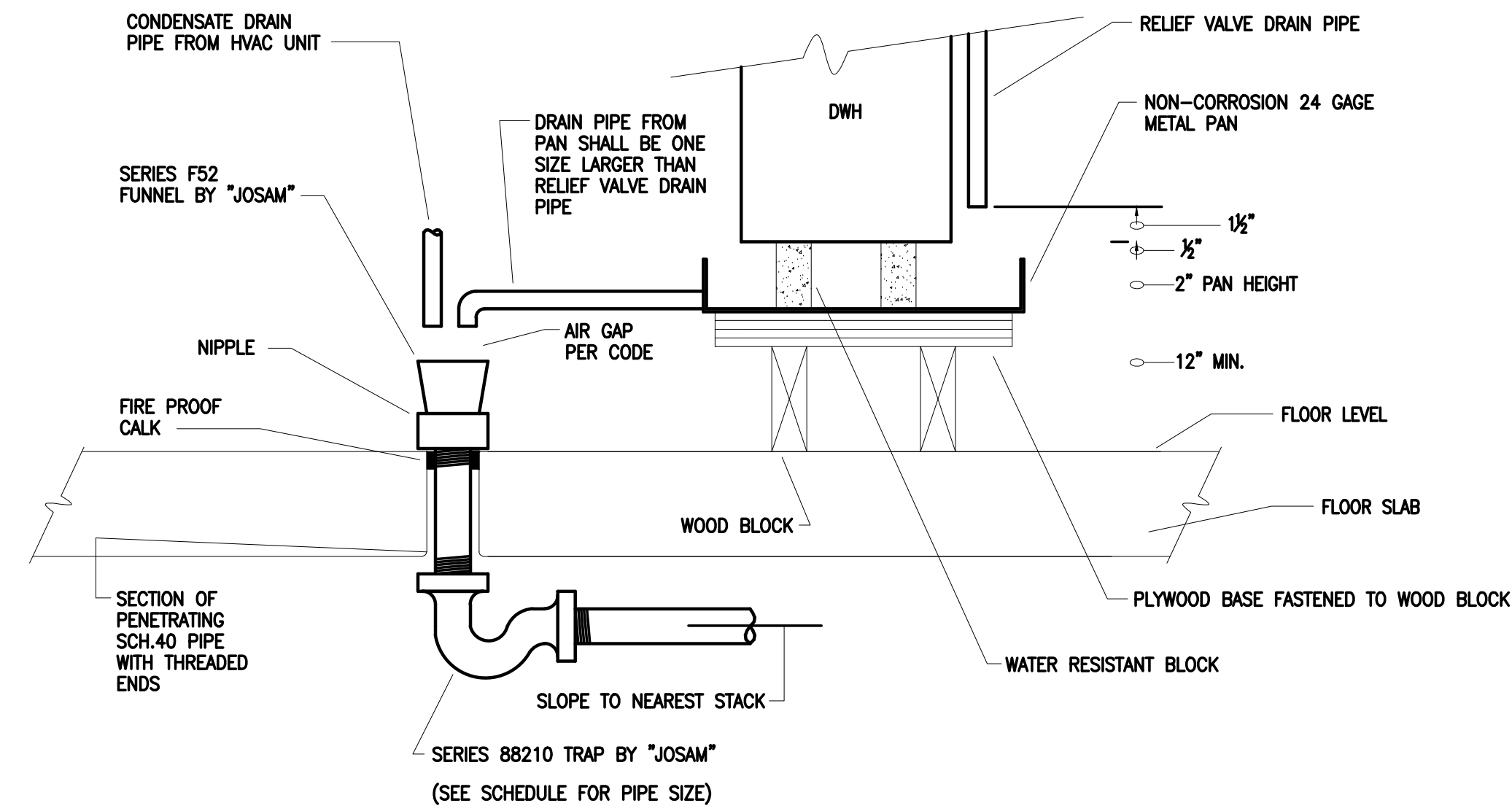




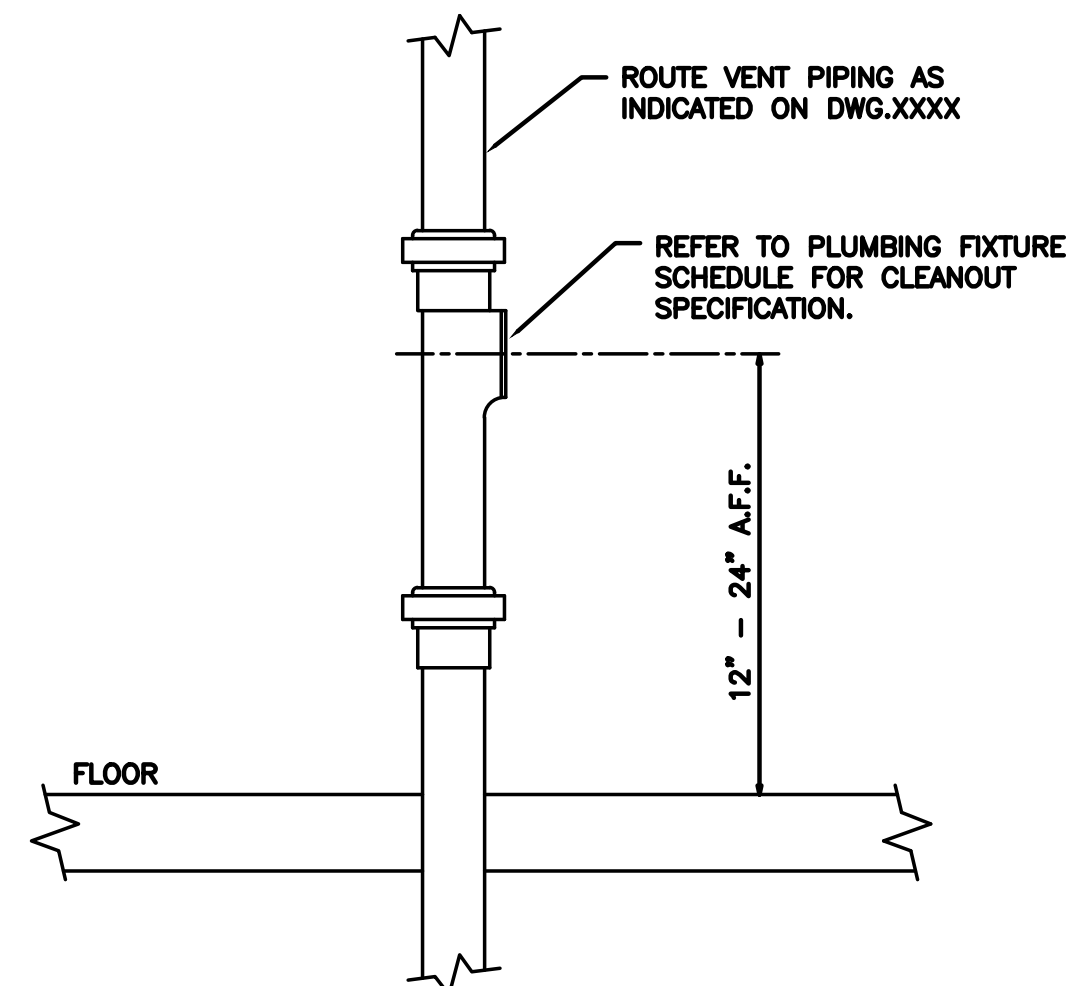
**1 CLEANOUT DETAIL**  
SCALE: NONE  
P4.0



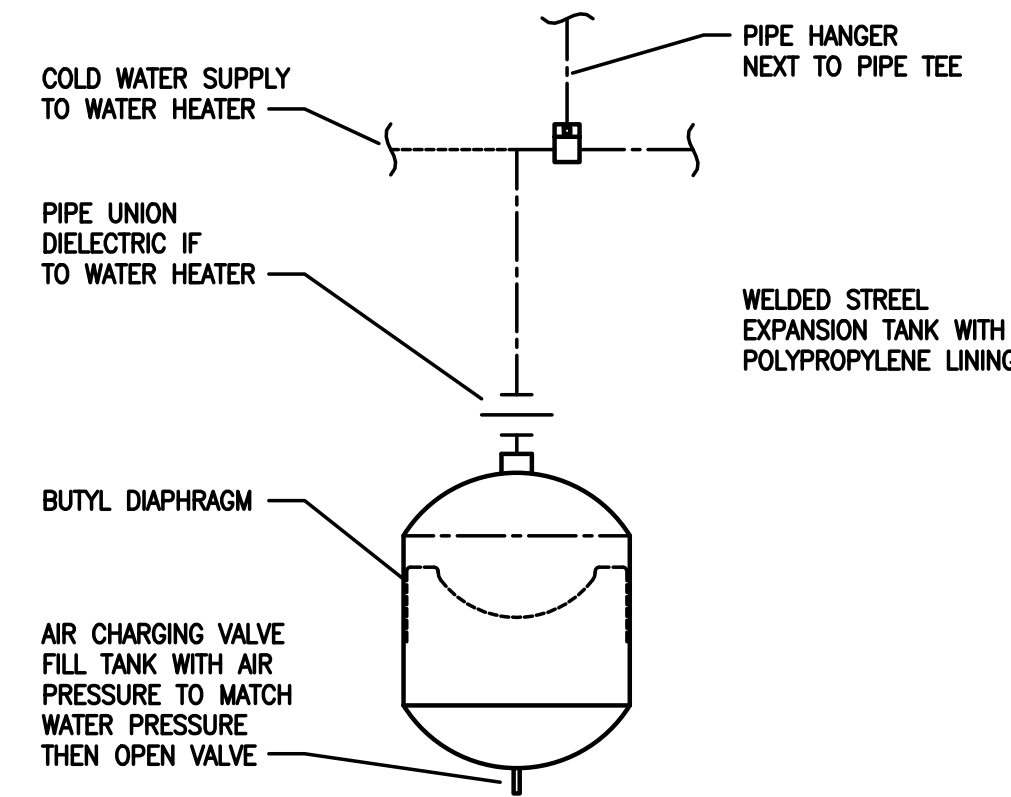
**2 CLEVIS HANGER**  
SCALE: NONE  
P4.0



**3 GWH PAN DISCHARGE TO FUNNEL DRAIN**  
SCALE: NONE  
P4.0



**4 CLEANOUT DETAIL**  
SCALE: NONE  
P4.0



**5 DETAIL - EXPANSION INSTALLATION**  
SCALE: NONE  
P4.0

PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. MAKE PIPE SAME SIZE AS TANK FITTING. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION PROCEDURE. VERIFY PROPER OPERATION WHEN INSTALLED.



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REVISIONS		
NO.	DESCRIPTION	DATE

DRAWING TITLE:  
**PLUMBING  
DETAILS  
WATER & GAS**

JOB NO: CCM2020-02	DESIGNED BY: DMS/AMM/RM/BMG
DATE: OCTOBER 19, 2020	DRAWN BY: DMS/AMM/AM
SCALE: AS NOTED	CHECKED BY: SMB/DMS/AMM
DRAWING NUMBER:	

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**P-4.0**