

# BATES WOOD PARK BUILDING IMPROVEMENTS PHASE II NEW LONDON, CT

## DRAWING LIST

### ARCHITECTURAL

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CITY OF NEW LONDON  
NEW LONDON, CT

JANUARY 25, 2013

ARCHITECT:

STEIN | TROOST LLC  
a r c h i t e c t u r e

T 203.831.9983  
F 203.838.0662  
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one morgan avenue norwalk connecticut 06851

**STRUCTURAL GENERAL NOTES**

A. GENERAL  
 1. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION AND DETAILS. ALSO, SEE SPECIFICATIONS.  
 B. DESIGN AND LOADING

1. ALLOWABLE UNIT STRESSES AND DESIGN CRITERIA IN ACCORDANCE WITH THE FOLLOWING:  
 A) "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" ACI 318-02  
 B) "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AISC 1989.  
 C) "STATE OF CONNECTICUT INTERNATIONAL BUILDING CODE 2003" WITH 2005 & 2009 SUPPLEMENTS  
 2. ALLOWABLE PRESUMPTIVE SOIL BEARING PRESSURE:  
 A) COLUMN FOOTING 1.5 TONS/SF  
 B) WALL FOOTING 1.0 TONS/SF  
 3. DESIGN STRESSES AND MATERIAL:  
 A) CONCRETE (28-DAY STRENGTH, NORMAL WEIGHT) 3,000 PSI  
    -FLATWORK 4,500 PSI  
 B) REINFORCING STEEL ASTM A-615 Fy = 60 KSI  
 C) WELDED-WIRE ASTM A-185 Fy = 60 KSI  
 D) STRUCTURAL STEEL ASTM A36 Fy=36 KSI  
 E) STRUCTURAL WOOD DOUGLAS FIR #2 OR BETTER  
 F) LAMINATED VENEER LUMBER E = 1,900,000 PSI, Fb = 2,600 PSI

C. FOUNDATION  
 1. ALL FOUNDATION EXCAVATIONS SHALL BE TO REQUIRED ELEVATION OR UNDISTURBED SOIL. ALL FOUNDATIONS EXCAVATIONS SHALL BE TO SOUND GROUND.  
 2. STRUCTURAL FILL SHALL BE APPROVED STRUCTURAL GRAVEL COMPACTED IN 8" LAYERS TO 95% OF MODIFIED OPTIMUM DENSITY.  
 3. PROVIDE A MINIMUM 18" LAYER OF 3/8" CRUSHED STONE BENEATH ALL CONCRETE SLABS/FLATWORK.  
 4. ALL FOUNDATION EXCAVATIONS AND STRUCTURAL FILL SHALL BE TESTED AND INSPECTED TO ENSURE THE ALLOWABLE SOIL BEARING PRESSURE AND DENSITY OF FOUNDATION BEARING MATERIALS.

D. CONCRETE WORK AND REINFORCING  
 1. REINFORCING TO BE LAPPED 36 BAR DIAMETERS AT ALL CORNERS, SPLICES, DOWELS, ETC.  
 2. PROVIDE TWO (2) #5 BARS ON ALL SIDES AND DIAGONALLY AT CORNERS OF OPENINGS THROUGH CONCRETE WALLS. BARS TO EXTEND 2'-0" BEYOND EDGE OF OPENING.  
 3. UNLESS OTHERWISE NOTED, ALL FOUNDATION WALLS ARE TO BE REINFORCED WITH TWO (2) #5 BARS, CONTINUOUS TOP AND BOTTOM.  
 4. HORIZONTAL WALL CONSTRUCTION JOINTS WILL NOT BE PERMITTED, EXCEPT WHERE SHOWN.  
 5. AIR-ENTRAIN ALL EXPOSED CONCRETE.  
 6. COVER FOR REINFORCING:  
 A) CONCRETE PLACED ON EARTH 3"  
 B) FORMED CONCRETE EXPOSED TO GROUND OR WEATHER: 1-1/2"  
 C) FORMED CONCRETE NOT EXPOSED TO GROUND OR WEATHER: 3/4"

E. STEEL  
 1. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC SPECIFICATIONS FOR THE DESIGN FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.  
 2. WHEREVER WELDING IS EMPLOYED, EITHER IN FABRICATION OR ERECTION ALL SUCH WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS IN COMPLETE ACCORD WITH THE "STRUCTURAL WELDING CODE - STEEL" OF THE AMERICAN WELDING CODE.  
 3. FURNISH LOOSE ANGLE LINTELS, UNLESS OTHER LINTELS ARE SPECIFICALLY INDICATED, FOR ALL OPENINGS IN MASONRY WALLS FOR DOORS, WINDOWS, DUCTS, PASS-THROUGHS, ETC. FOR EACH FOUR (4) INCHES OF MASONRY, FURNISH ONE ANGLE AS FOLLOWS:  

SPAN	LINTEL
Up to 4'-6"	L3-1/2 x 3-1/2 x 5/16
4'-6" to 5'-6"	L4 x 3-1/2 x 5/16
5'-6" to 6'-6"	L5 x 3-1/2 x 5/16
6'-6" to 7'-8"	L6 x 3-1/2 x 3/8

 FOR SIX (6") INCH WALLS, USE TWO (2) ANGLES WITH 2-1/2-INCH LEGS OUTSTANDING. FOR FOUR (4") INCH WALLS, USE ST3 x 6.25. PROVIDE MINIMUM SIX (6") INCH LONG BEARING FOR ALL LINTELS.  
 4. ALL LINTELS TO BE GALVANIZED  
 5. SUBMIT SHOP DRAWINGS, INCLUDING LINTEL SCHEDULE

G. MASONRY CONSTRUCTION  
 1. ALL MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (ACI 530-02/ASCE 5-02).  
 2. ALL MASONRY SHALL BE LAID IN RUNNING BOND.  
 3. MORTAR SHALL BE TYPE S CONFORMING TO ASTM C270.  
 4. GROUT SHALL CONFORM TO ASTM C476 WITH A MINIMUM CEMENT CONTENT OF 7.0 SACKS OF PORTLAND CEMENT PER CUBIC YARD.  
 5. PROVIDE BOND BEAMS OR REINFORCED GROUTED UNITS WITH 2-#5 HORIZONTAL CONTINUOUS REINFORCEMENT IN ALL MASONRY WALLS AT:  
 A) THE BOTTOM AND TOP OF WALL OPENINGS AND SHALL EXTEND NOT LESS THAN 24 INCHES NOR LESS THAN 40 BAR DIAMETER PAST THE OPENING  
 B) STRUCTURALLY CONNECTED ROOF LEVELS AND AT THE TOP OF WALLS  
 C) AT THE BOTTOM OF THE WALL OR IN THE TOP OF THE FOUNDATIONS WHEN DOWELLED TO THE WALL.  
 D) AT MAXIMUM SPACING OF 10 FEET UNLESS UNIFORMLY DISTRIBUTED JOINT REINFORCEMENT IS PROVIDED.  
 6. PROVIDE MINIMUM OF ONE #5 CONTINUOUS VERTICAL REINFORCEMENT IN ALL MASONRY WALLS AT:  
 A) MINIMUM OF 48 INCHES ON CENTER UNLESS OTHERWISE NOTED  
 B) ALL SIDES AND EDGES OF MASONRY OPENINGS AND SHALL EXTEND NOT LESS THAN 24 INCHES NOR LESS THAN 40 BAR DIAMETER PAST THE OPENING  
 7. ALL MASONRY CELLS CONTAINING REINFORCING SHALL BE FILLED SOLID WITH GROUT. GROUT SHALL BE SAME TYPE AS MORTAR.  
 8. ALL VERTICAL MASONRY REINFORCEMENT SHALL BE DOWELED (18 INCHES) MINIMUM INTO SUPPORTING FOUNDATION WALL OR FOOTING, UNLESS OTHERWISE NOTED.  
 9. REINFORCEMENT SHALL BE HELD IN PLACE USING POSITIONERS AT THE START, END AND SPLICES OF EACH BAR. PROVIDE ADDITIONAL SUPPORTS AT INTERVALS NOT GREATER THAN 192 BAR DIAMETERS OR 10'-0".  
 10. SPLICE REINFORCEMENT A MINIMUM LAP OF 48 BAR DIAMETERS OR 12 INCHES, WHICHEVER IS GREATER.  
 11. SINGLE WYTHE JOINT REINFORCEMENT TO BE LADOUR TYPE, 3/16" DIAMETER SIDE RODS WITH 9 GAGE CROSS TIES CONFORMING TO ASTM A82. PLACED HORIZONTALLY WITH A MAXIMUM VERTICAL SPACING OF 16 INCHES. WIRE REINFORCEMENT TO BE GALVANIZED.  
 12. CONCRETE MASONRY UNITS SHALL BE OF SIZE AND SHAPE INDICATED ON PLANS. TYPICAL 8 INCH THICK UNIT SHALL BE 8X8X16 MODULAR WITH TWO CELLS AND SHALL HAVE A NET/GROSS AREA RATIO OF 53%.  
 13. DO NOT USE ADMIXTURES CONTAINING CHLORIDES, NITRITES OR NITRATES.  
 14. ALL HORIZONTAL BOND BEAM REINFORCEMENT SHALL BE CONTINUOUS AT MASONRY CONTROL JOINTS.

H. STRUCTURAL WOOD FRAMING  
 1. ALL STRUCTURAL WOOD FRAMING SHALL CONFORM TO AND BE ERECTED IN ACCORDANCE WITH THE LATEST RECOMMENDATIONS OF THE NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION AND THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION.  
 2. PLYWOOD SHALL BE IN ACCORDANCE WITH THE AMERICAN PLYWOOD ASSOCIATION (APA) SPECIFICATIONS.  
 3. ALL WOOD FRAMING IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.  
 4. ALL NAILS, SCREWS, SPIKES, ETC., TO BE COMMON STEEL.  
 5. JOIST HANGERS, FRAMING ANGLES AND CLIPS SHALL BE EQUAL TO THOSE MANUFACTURED BY THE SIMPSON STRONGTIE COMPANY, PLEASANTON, CA  
 6. CARPENTRY SHALL BE ERECTED TRUE TO LINES, LEVELS AND DIMENSIONS SHOWN OR REQUIRED; SHALL BE SQUARED, ALIGNED AND PLUMBED; SECURELY FASTENED IN PLACE IN AN APPROVED MANNER.  
 7. ALL JOINTS SHALL BE NEATLY AND ACCURATELY MADE, FITTED TIGHT, BLOCKED OR OTHERWISE PUT TOGETHER SO AS TO AVOID OPENING OR ROTATION.  
 8. MEMBERS OF ROUGH WOODWORK SHALL BE SECURELY FASTENED TOGETHER AND TO SUPPORTING CONSTRUCTION; NAILED, SPIKED, LAG SCREWED OR BOLTED AS REQUIRED.  
 9. ALL NAILED CONNECTIONS SHALL BE SECURED IN ACCORDANCE WITH "STATE OF CONNECTICUT INTERNATIONAL BUILDING CODE" 2003 - NAILING SCHEDULE.  
 10. FOR BOLTED CONNECTIONS, DRILL HOLES 1/16" LARGER IN DIAMETER THAN THE BOLTS BEING USED. DRILL STRAIGHT AND TRUE FROM ONE SIDE ONLY. BOLT THREADS SHALL NOT BEAR ON WOOD. USE WASHERS UNDER ALL NUTS.  
 11. FOR LAG-SCREWS AND WOOD SCREWS, PRE-BORE HOLES SAME DIAMETER AS ROOT OF THREADS; ENLARGE HOLES TO SHANK DIAMETER FOR LENGTH OF SHANK. SCREW, DO NOT DRIVE, ALL LAG SCREWS AND WOOD SCREWS.  
 12. ALL MULTIPLE PLY LAMINATED VENEER LUMBER BEAMS SHALL BE NAILED WITH (3)-ROWS OF 12d NAILS SPACED AT 12" O.C.

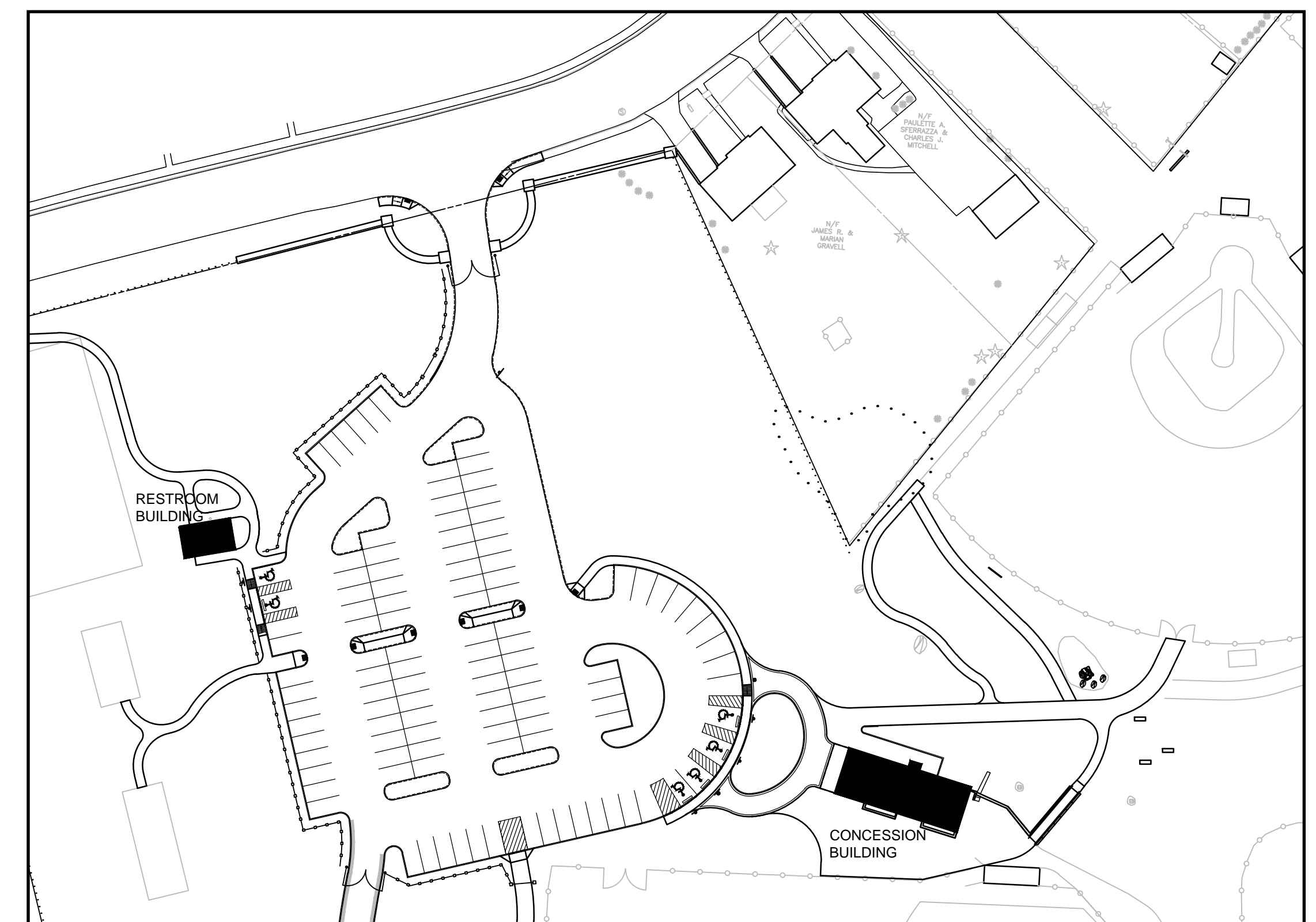
**STRUCTURAL LOADS**

LIVE LOAD:  
 A) ROOF LIVE LOAD - 20psf  
 B) ROOF SNOW LOAD - GROUND SNOW LOAD Pg= 30 PSF  
    - FLAT ROOF SNOW LOAD Pf= 30 PSF  
    - EXPOSURE (EXP. B, PARTIAL) Ce= 1.0  
    - THERMAL FACTOR Ct= 1.1  
    - SNOW IMPORTANCE FACTOR (CAT. II) Is= 1.0  
    - UNBALANCED SNOW - WINDWARD 8.0 PSF  
    - LEEWARD 38.0 PSF  
 LATERAL LOADS:  
 A) WIND LOADS -BASIC WIND SPEED (3 SEC. GUST) 120 mph  
    -WIND LOAD IMPORTANCE FACTOR Iw = 1.00  
    -WIND EXPOSURE C  
    -BASIC VELOCITY PRESSURE 27 psf  
 COMPONENT WIND LOADS: TYPICAL TRANSITIONS CORNERS  
    psf psf psf  
    -WALLS -38 --- -63  
    -SLOPED ROOF -52 -78 -101  
 B) SEISMIC LOADS -SPECTRAL RESPONSE ACCELERATION Ss=0.210  
    -1 SECOND PERIOD S1=0.057  
    -SEISMIC USE GROUP I  
    -SEISMIC DESIGN CATEGORY B  
    -SOIL PROFILE TYPE (ASSUMED) D  
    -BASIC STRUCTURAL SYSTEM - BUILDING FRAME  
    -SEISMIC RESISTING SYSTEM -  
       "REINFORCED MASONRY SHEAR WALLS"  
    -RESPONSE MODIFICATION FACTOR R=3.0  
    -DEFLECTION AMPLIFICATION FACTOR Cd=2.5  
    -SEISMIC DESIGN COEFFICIENT CS=0.075  
    -ANALYSIS PROCEDURE - EQUIVALENT FORCE

**STANDARD DRAWING SYMBOLS**

- ◇ - WALL TYPE
- ⊕ ELEV. #17'-1" SPOT ELEVATION MARK
- ⊕ ELEV. #17'-1" FINISH FLOOR VERTICAL ELEVATION MARK
- (FC-1) FLOOR/CEILING & ROOF/CEILING SYMBOL
- X WINDOW SYMBOL
- X DOOR SYMBOL
- X(A/N,N)X ELEVATION SYMBOL  
    [X] - ELEVATION IDENTIFICATION  
    [A/N,N] - SHEET NUMBER
- N ROOM IDENTIFICATION  
    [NNN] - ROOM NUMBER (NUMBER ACCORDING TO FLOOR)  
    i.e., FIRST FLOOR = 101, 102, etc.  
    i.e., SECOND FLOOR = 201, 202, etc.  
    [xxxxxx] - ROOM NAME
- N FULL BUILDING SECTION SYMBOL  
    [X] - SECTION IDENTIFICATION (ALWAYS A LETTER i.e., A/6.1, B/A6.1 etc.)  
    [A/N,N] - SHEET NUMBER
- N PARTIAL SECTION SYMBOL  
    [N] - ELEVATION IDENTIFICATION (ALWAYS A NUMBER i.e., 1/6.1, 2/A6.1 etc.)  
    [A/N,N] - SHEET NUMBER
- N DETAIL SYMBOL  
    [N] - DETAIL IDENTIFICATION (ALWAYS A NUMBER i.e., 1/6.1, 2/A6.1 etc.)  
    [A/N,N] - SHEET NUMBER

**KEY PLAN**

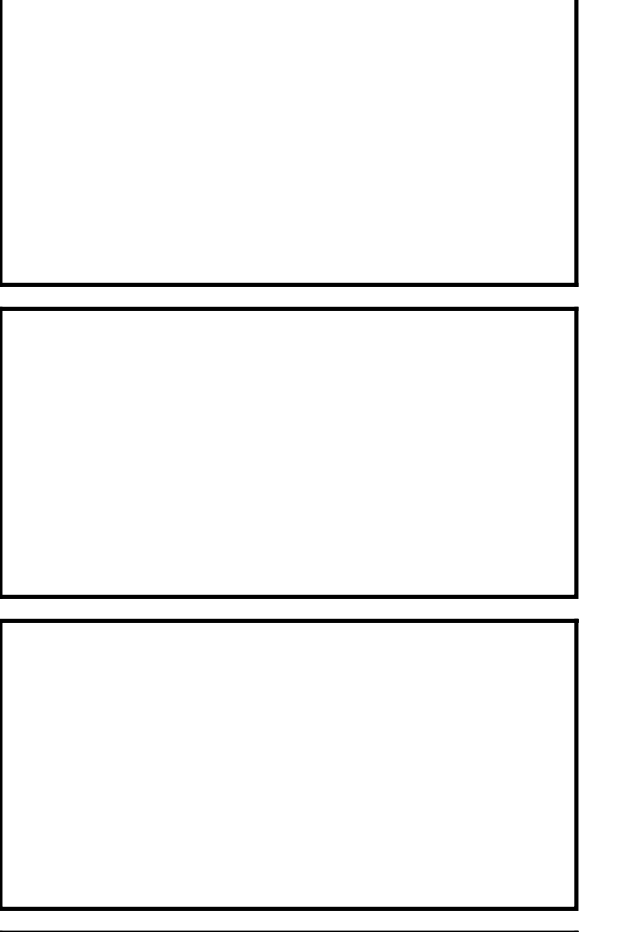


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 BATES WOODS PARK  
 BUILDING  
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 PHASE II  
 NEW LONDON, CT

**NOTES & SYMBOLS**

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 Date: 1/25/2013  
 Scale: NTS  
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**TS-2**

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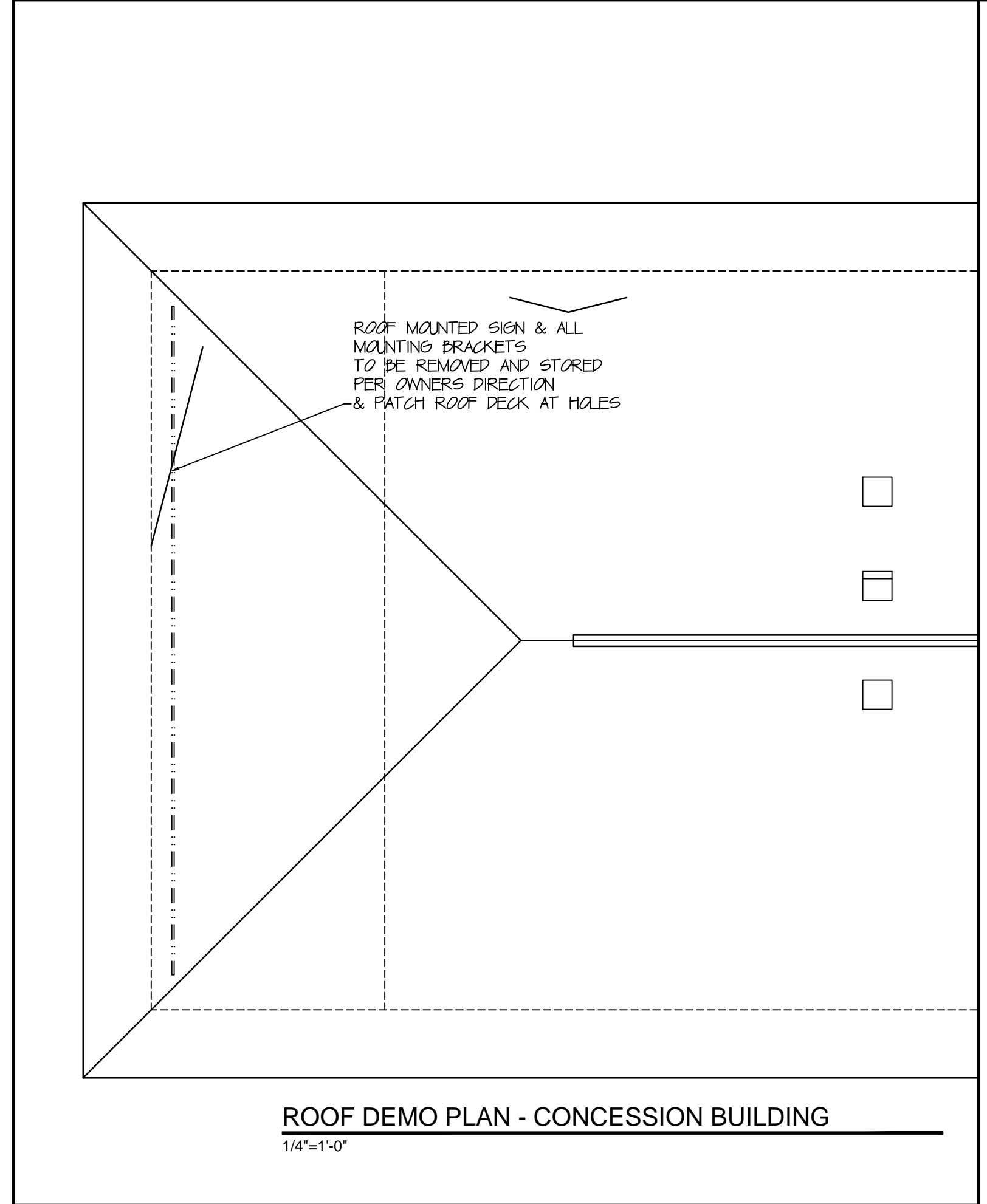
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BATES WOODS PARK  
BUILDING  
IMPROVEMENTS  
PHASE II  
NEW LONDON, CT

CONCESSION BUILDING

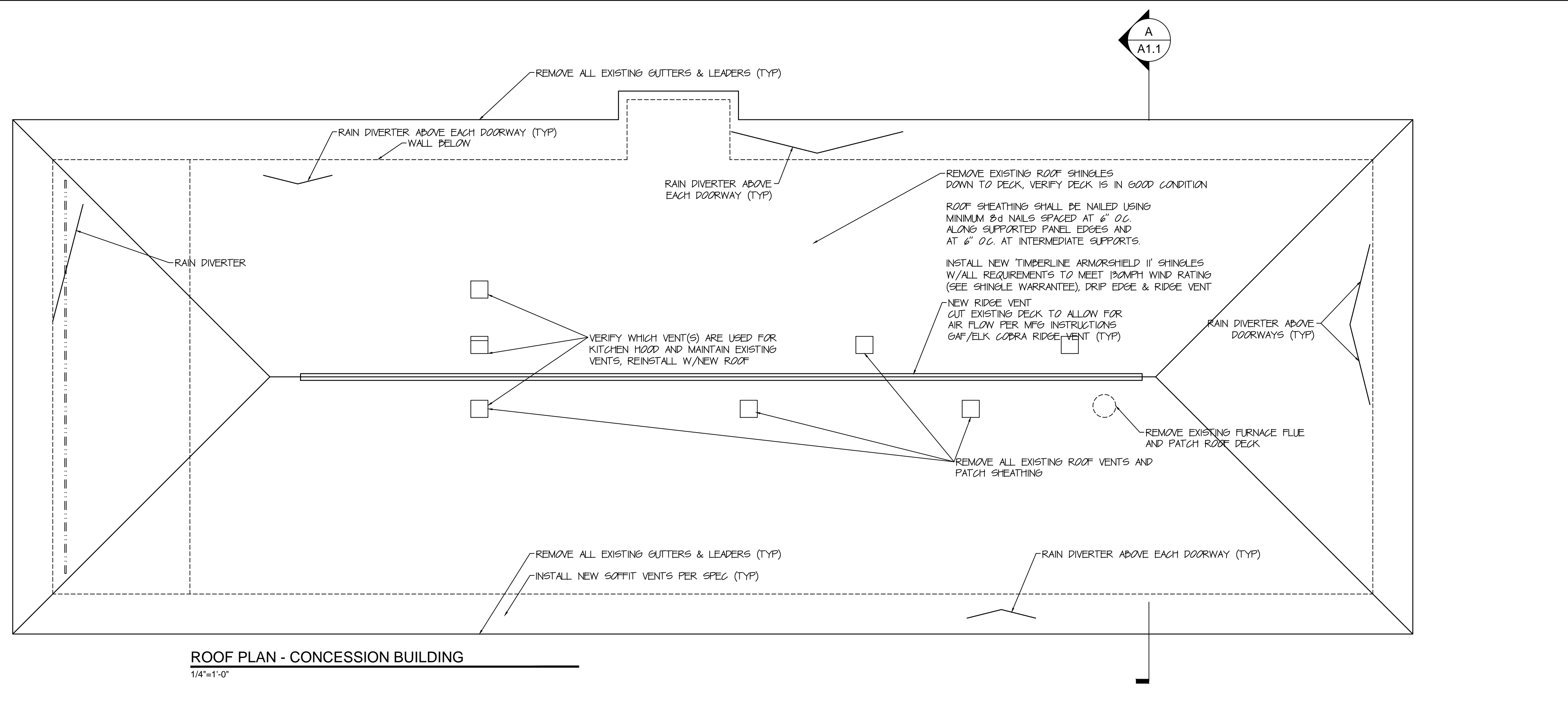
FIRST FLOOR  
& ROOF PLAN

Proj No: 2010-9  
Date: 1/25/2013  
Scale: 1/4"=1'-0"  
Drawn By: MIT  
Checked By:  
Approved By:

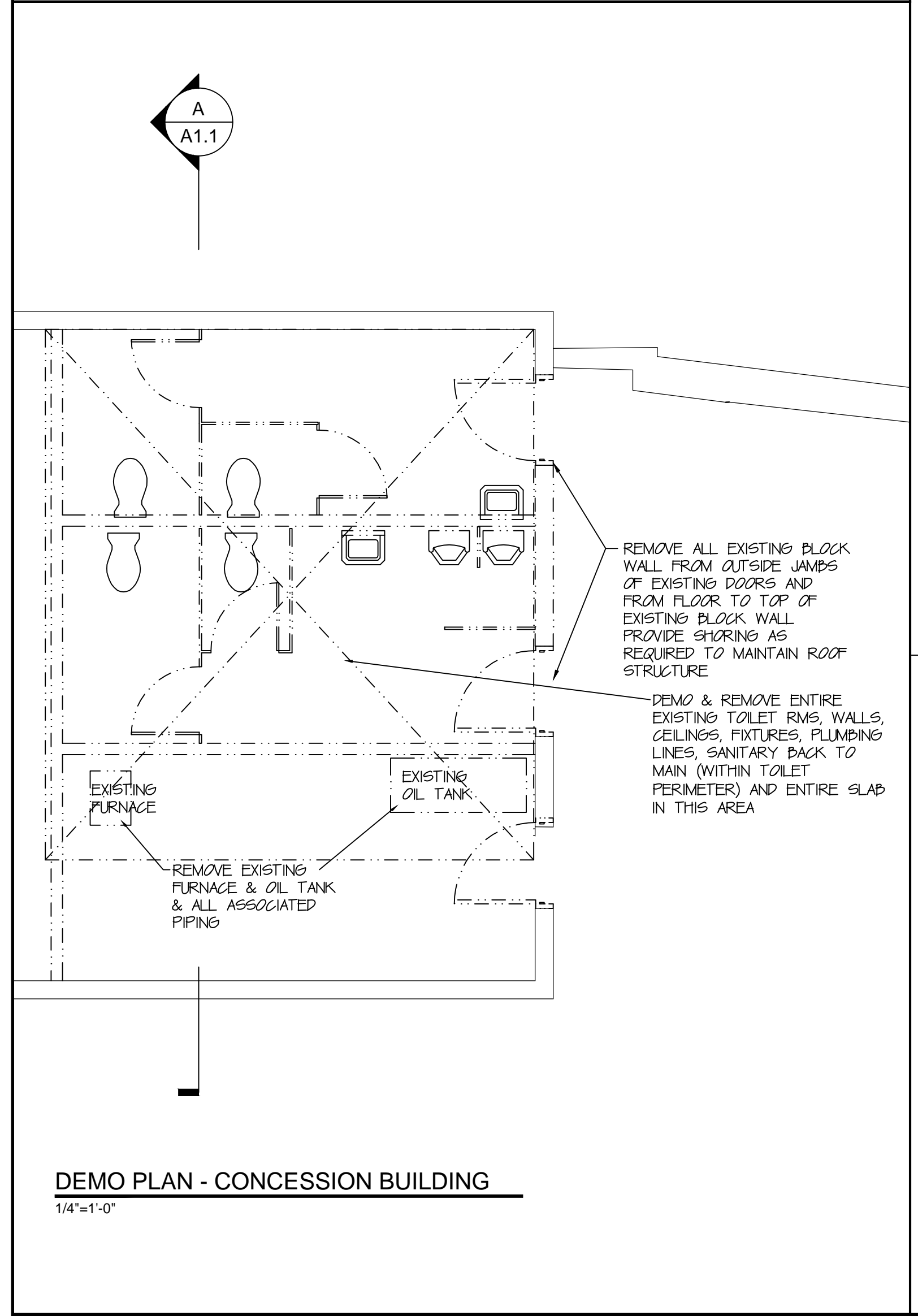
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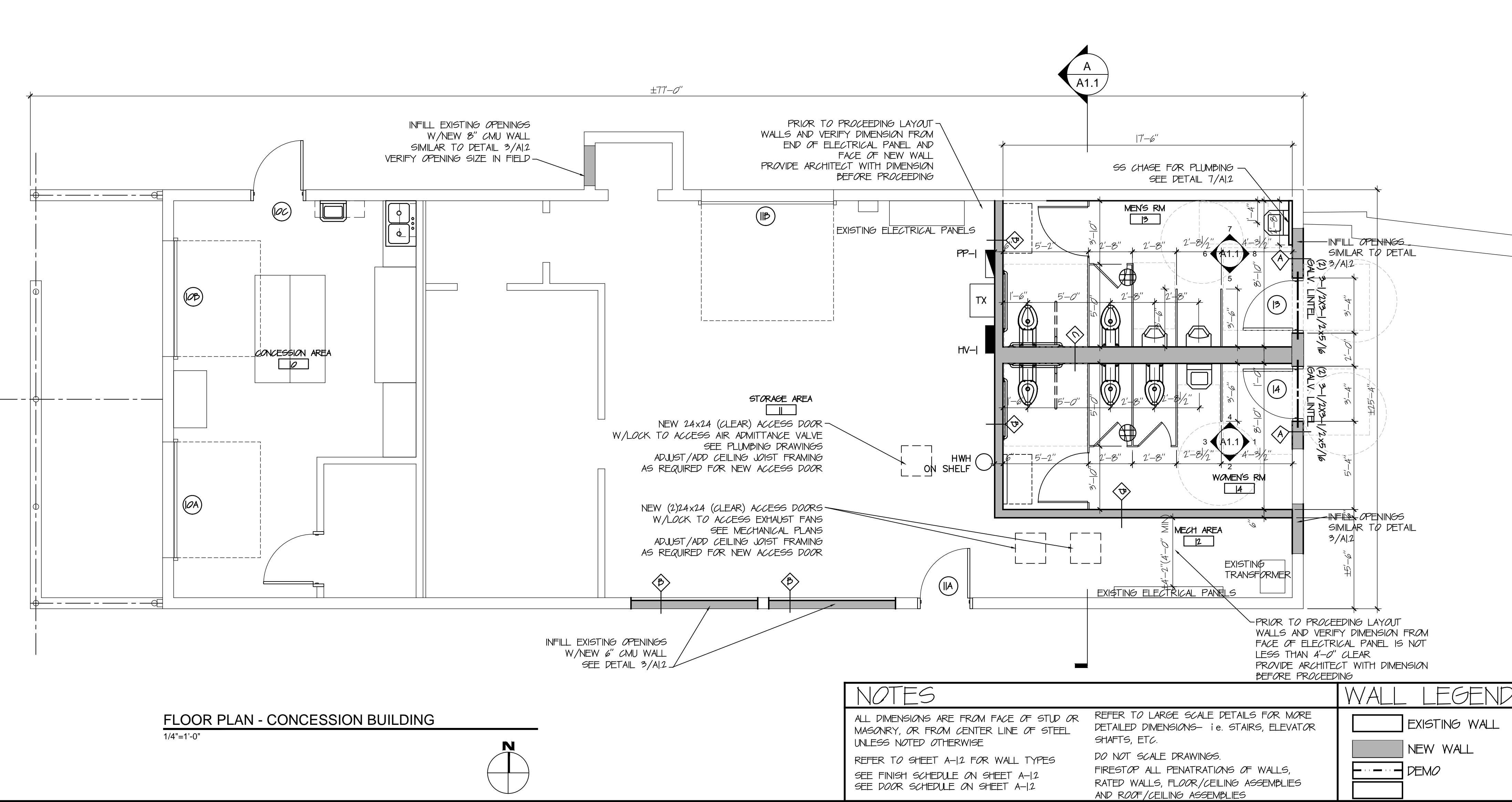
ROOF DEMO PLAN - CONCESSION BUILDING  
1/4"=1'-0"



ROOF PLAN - CONCESSION BUILDING  
1/4"=1'-0"



DEMO PLAN - CONCESSION BUILDING  
1/4"=1'-0"



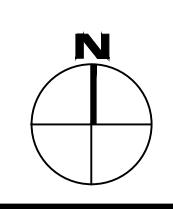
FLOOR PLAN - CONCESSION BUILDING  
1/4"=1'-0"

NOTES

ALL DIMENSIONS ARE FROM FACE OF STUD OR MASONRY, OR FROM CENTER LINE OF STEEL UNLESS NOTED OTHERWISE  
REFER TO SHEET A-12 FOR WALL TYPES  
SEE FINISH SCHEDULE ON SHEET A-12  
SEE DOOR SCHEDULE ON SHEET A-12  
REFER TO LARGE SCALE DETAILS FOR MORE DETAILED DIMENSIONS- i.e. STAIRS, ELEVATOR SHAFTS, ETC.  
DO NOT SCALE DRAWINGS  
FIRESTOP ALL PENETRATIONS OF WALLS, RATED WALLS, FLOOR/CEILING ASSEMBLIES AND ROOF/CEILING ASSEMBLIES

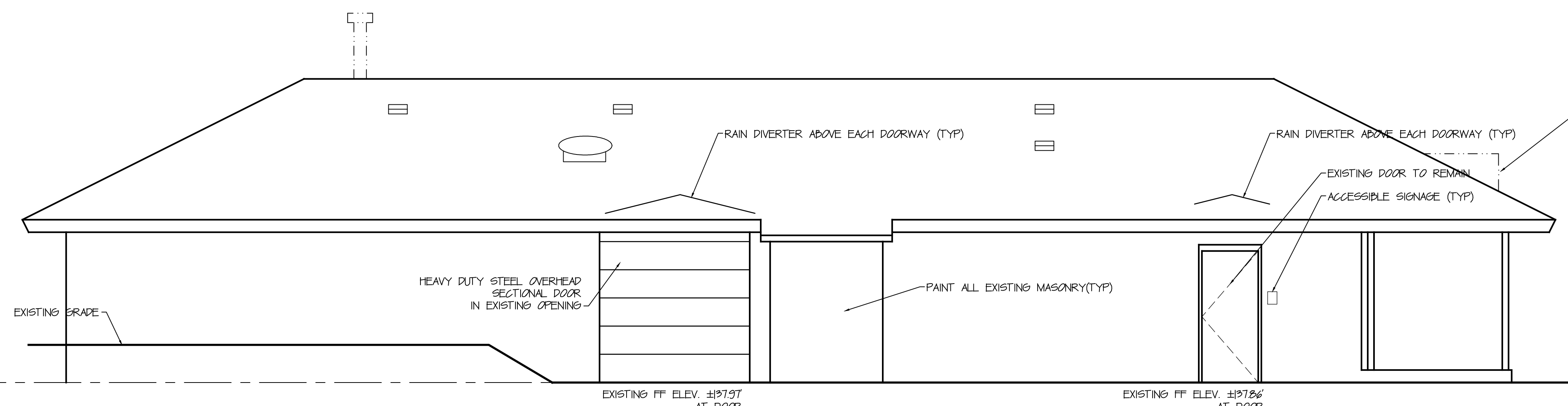
WALL LEGEND

EXISTING WALL  
NEW WALL  
DEMO

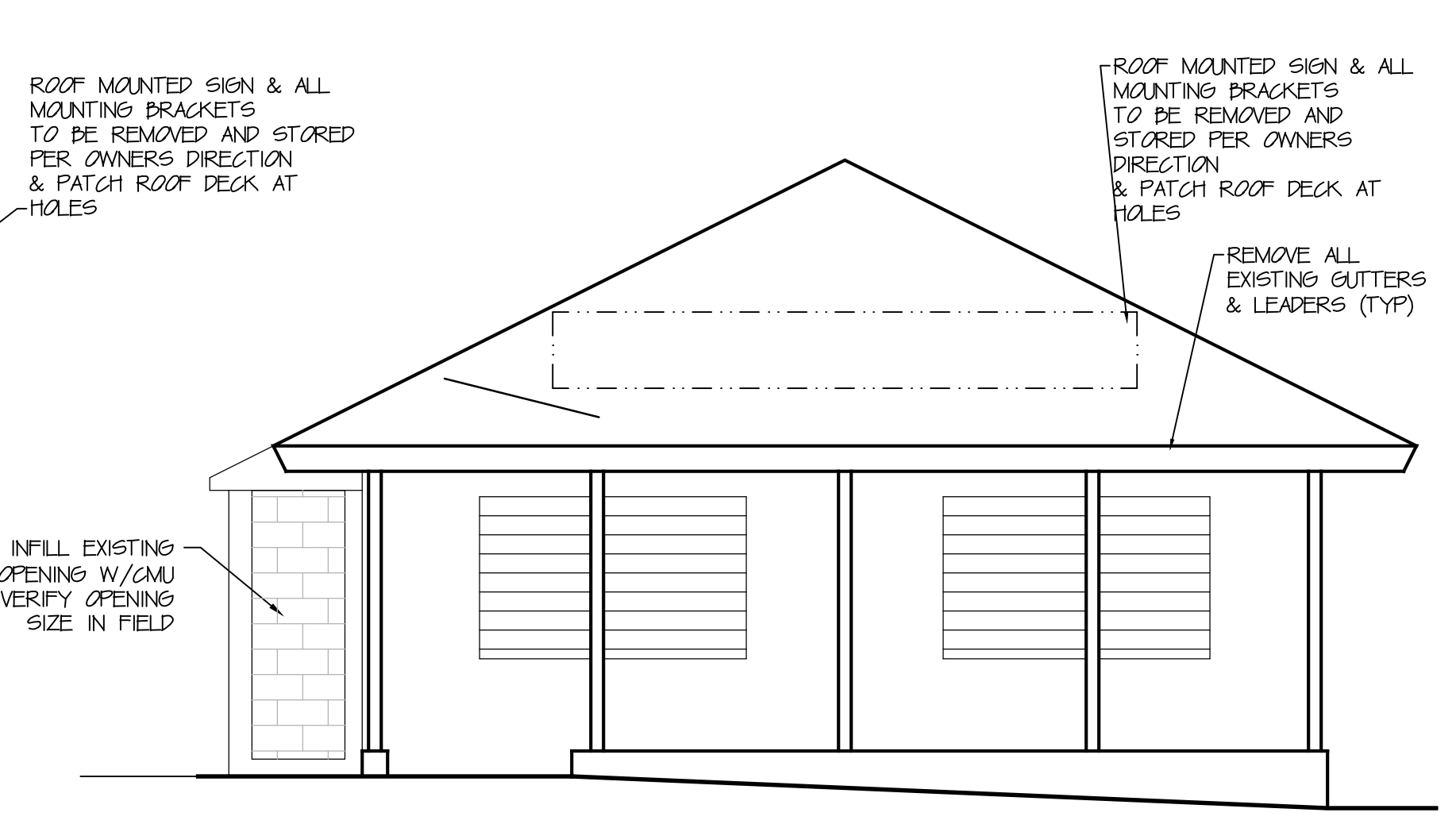


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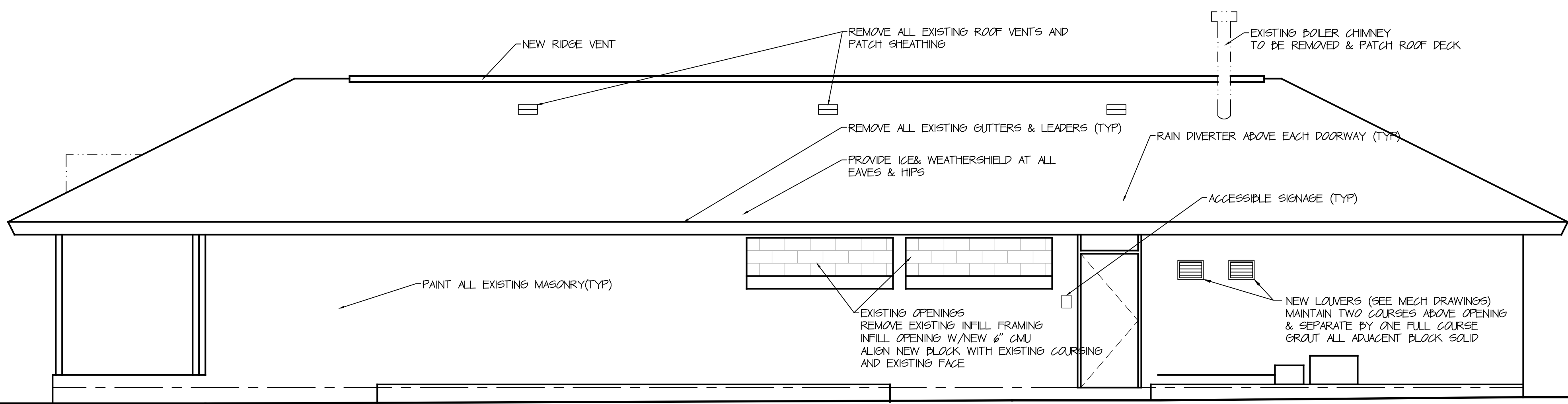
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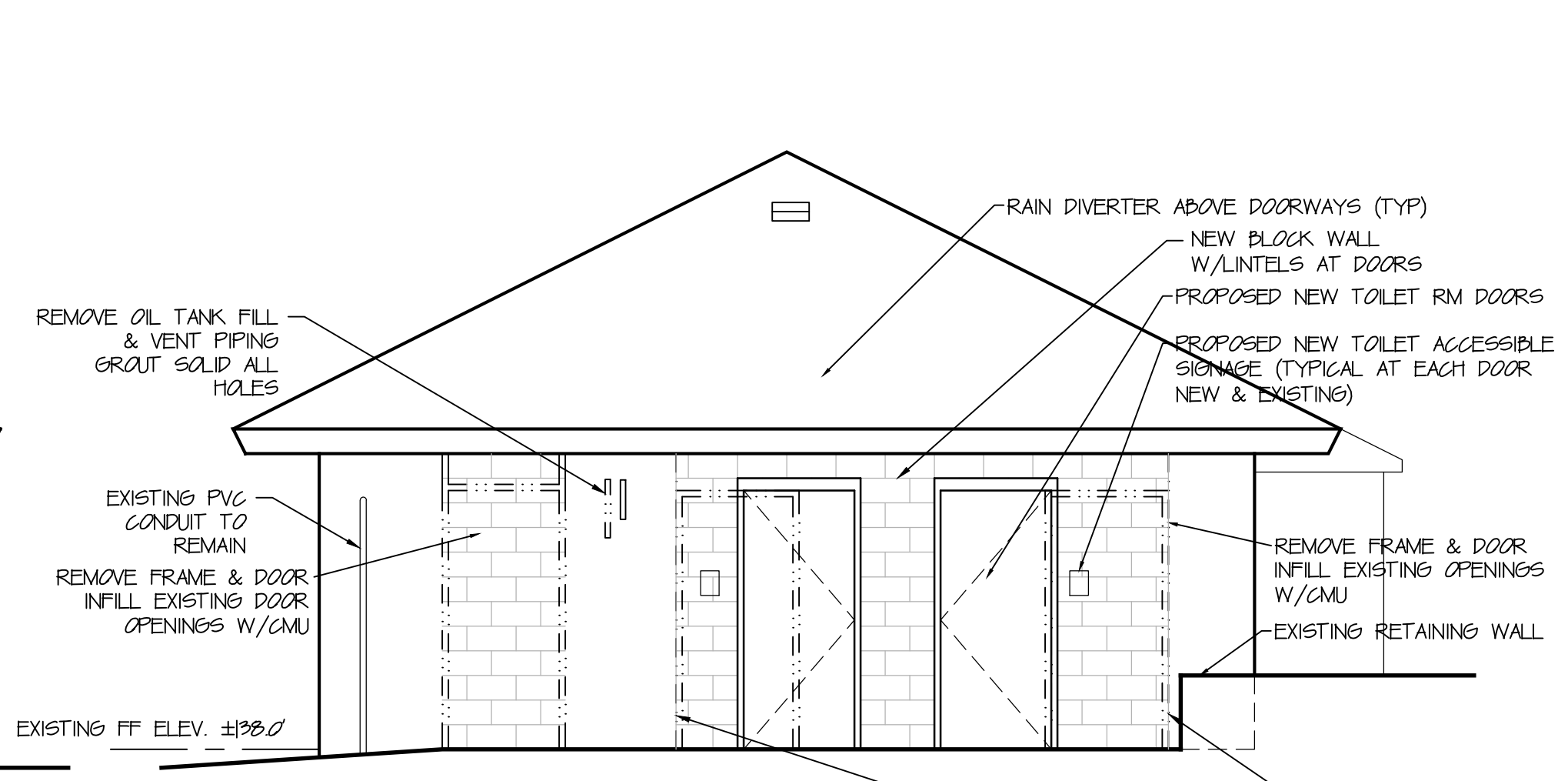
**NORTH ELEVATION**  
1/4"=1'-0"



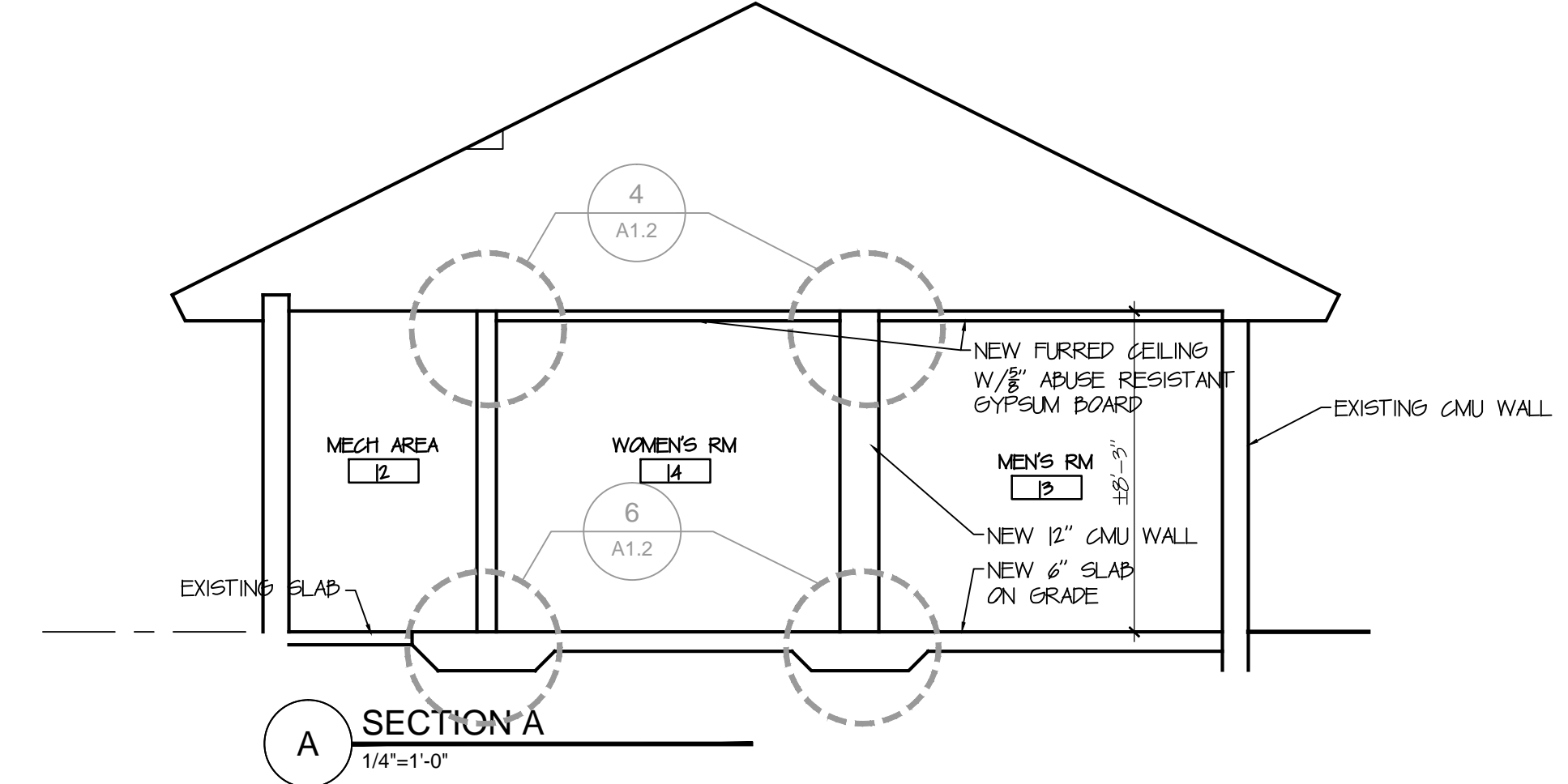
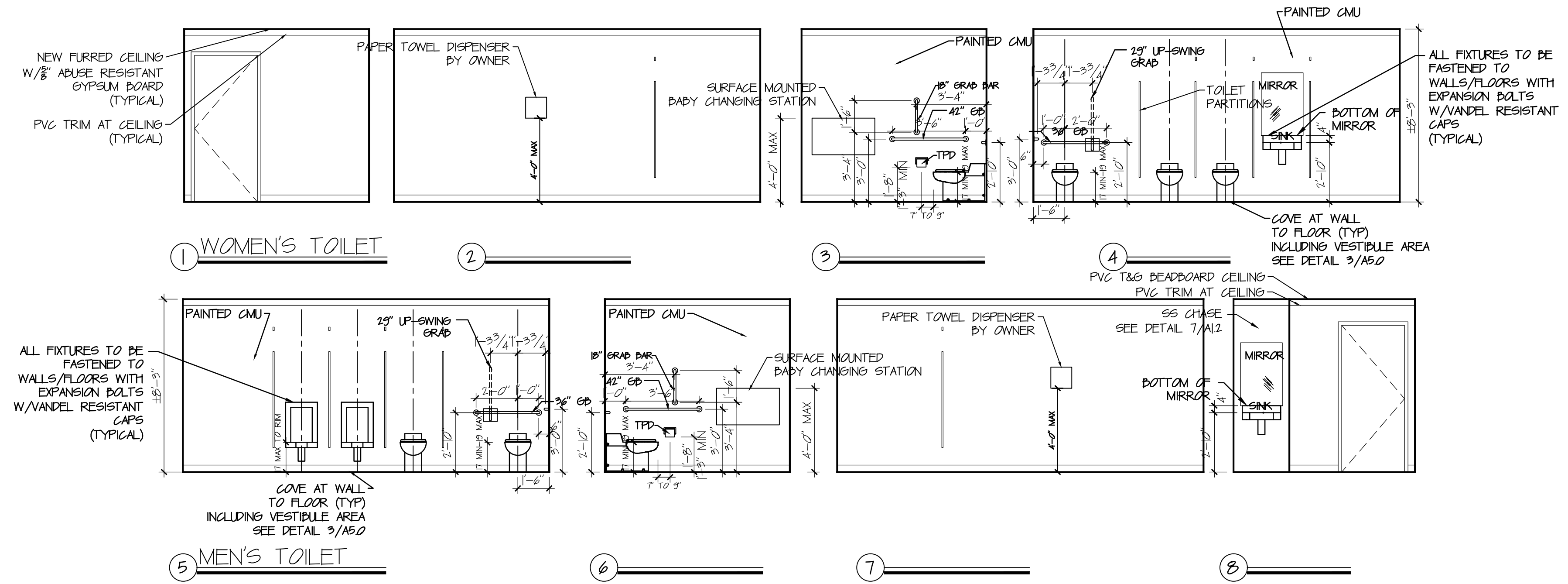
**WEST ELEVATION**  
1/4"=1'-0"



**SOUTH ELEVATION**  
1/4"=1'-0"



**EAST ELEVATION**  
1/4"=1'-0"



**NOTES**

ALL DIMENSIONS ARE FROM FACE OF STUD OR MASONRY, OR FROM CENTER LINE OF STEEL UNLESS NOTED OTHERWISE

REFER TO SHEET A-12 FOR WALL TYPES

SEE FINISH SCHEDULE ON SHEET A-12

SEE DOOR SCHEDULE ON SHEET A-12

REFER TO LARGE SCALE DETAILS FOR MORE DETAILED DIMENSIONS- I.e. STAIRS, ELEVATOR SHAFTS, ETC.

DO NOT SCALE DRAWINGS

FIRESTOP ALL PENETRATIONS OF WALLS, RATED WALLS, FLOOR/CEILING ASSEMBLIES AND ROOF/CEILING ASSEMBLIES

**WALL LEGEND**

EXISTING WALL

NEW WALL

DEM

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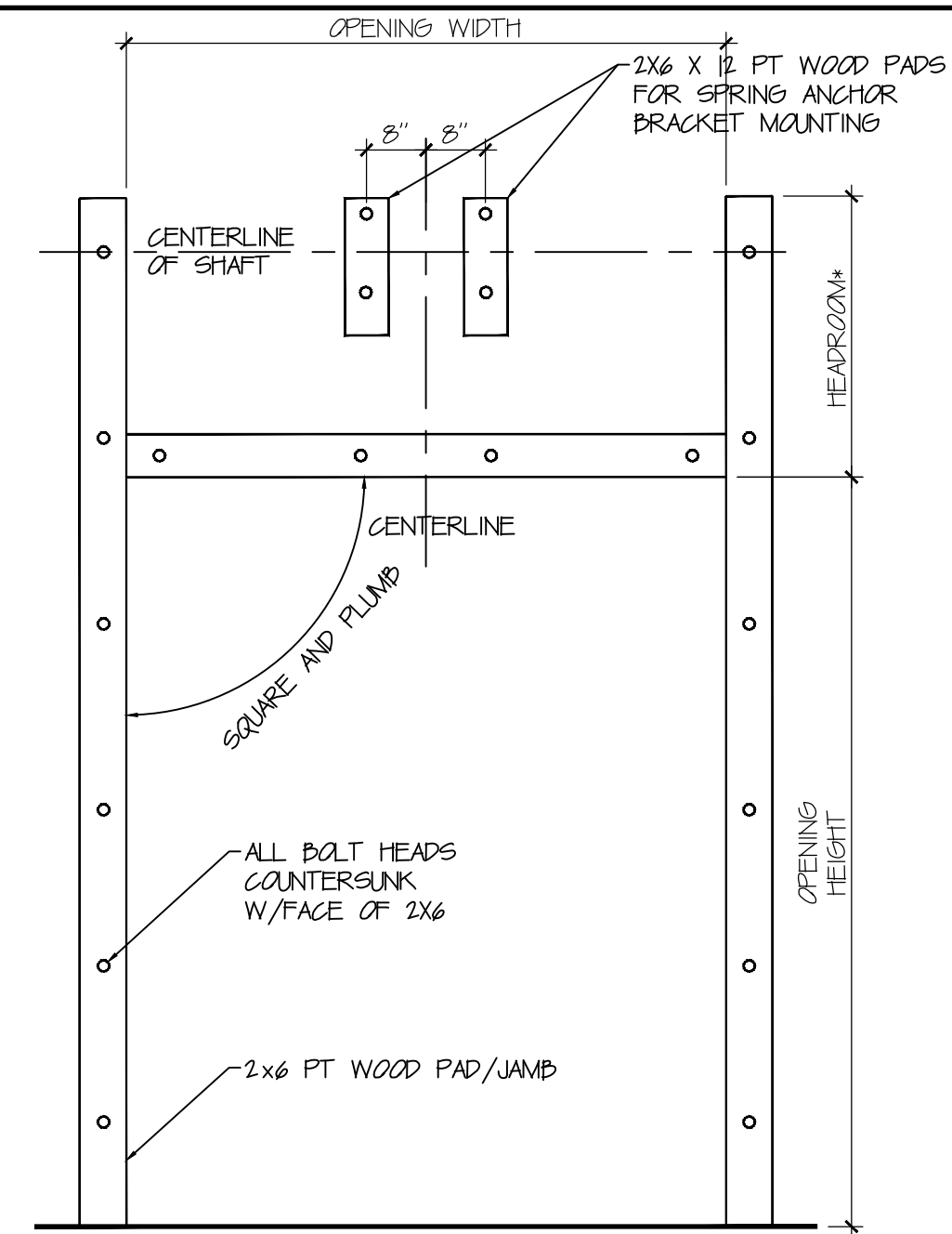
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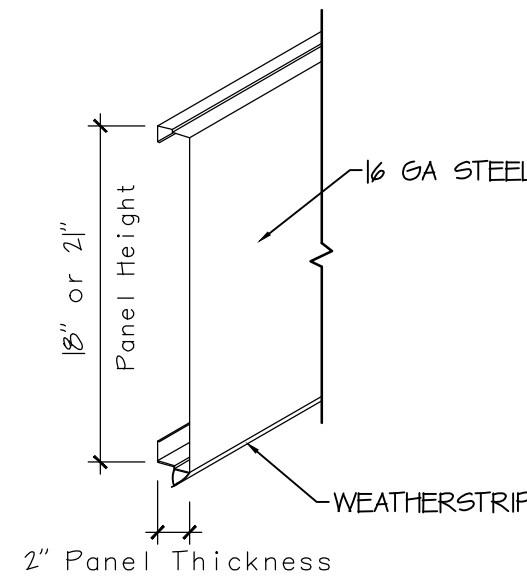
CONCESSION BUILDING  
ELEVATIONS, INTERIOR  
ELEVATIONS & SECTION

Proj No: 2010-9  
Date: 1/25/2013  
Scale: 1/4"=1'-0"  
Drawn By: MIT  
Checked By:  
Approved By:

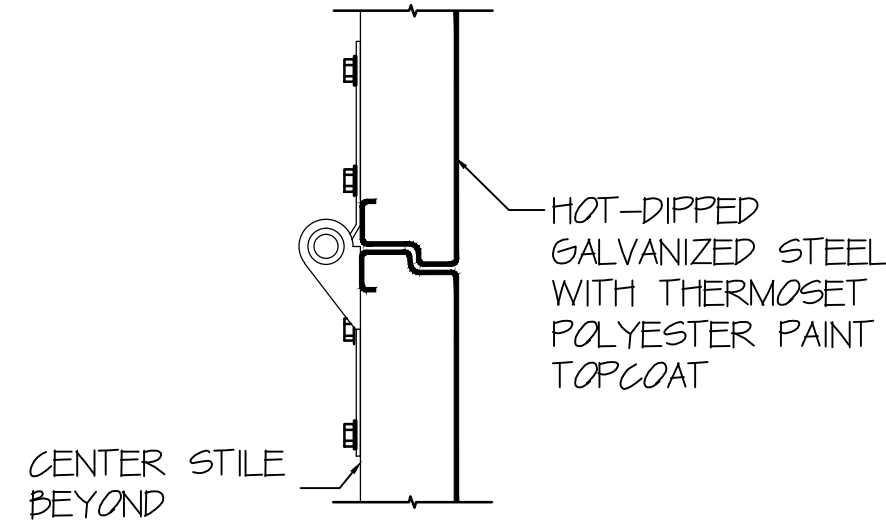
**A-1.1**



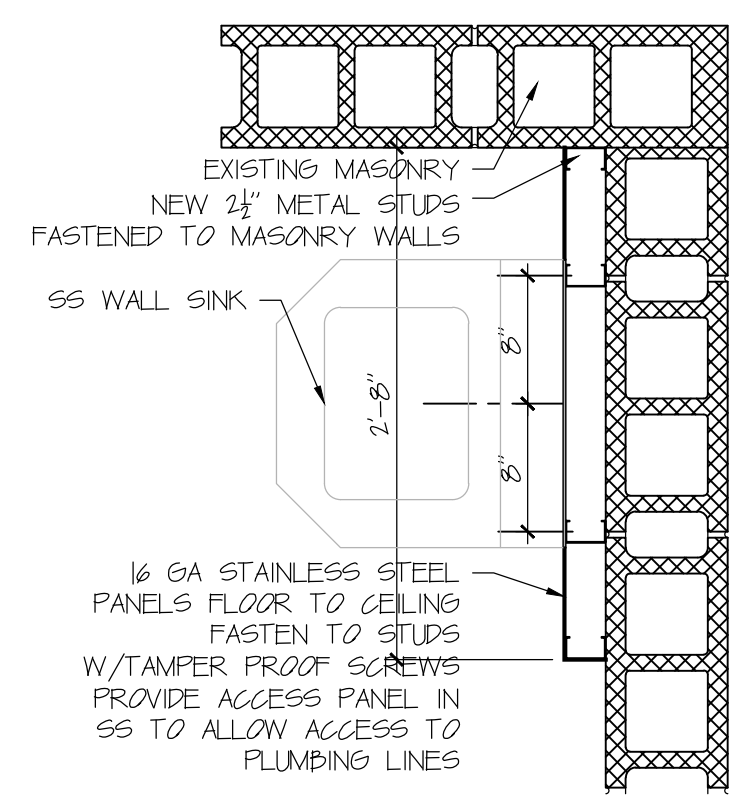
**5A** FRAMING & PAD DETAIL AT SECTIONAL DOOR  
NTS



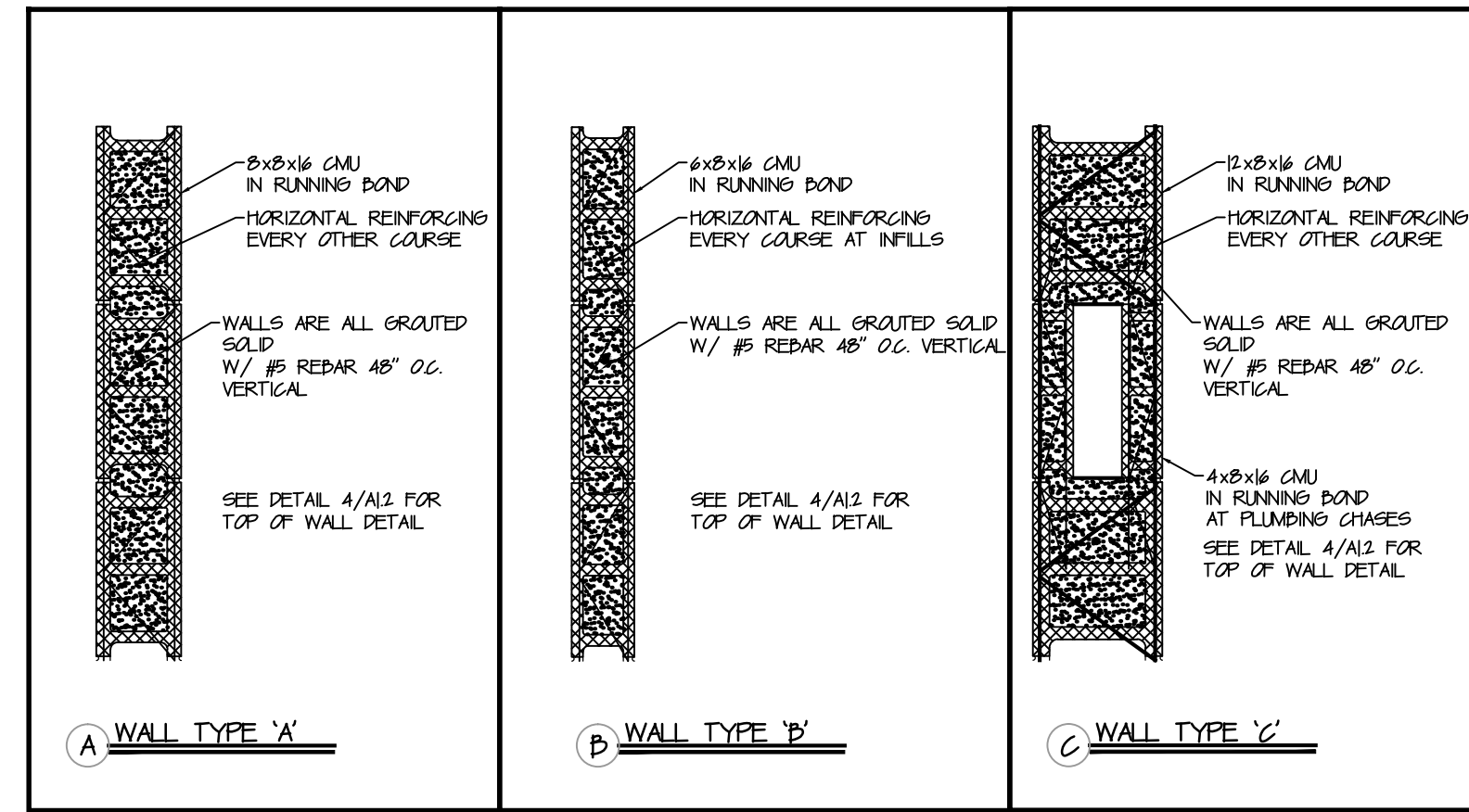
**5B** DOOR PANEL  
1'-1'-0"



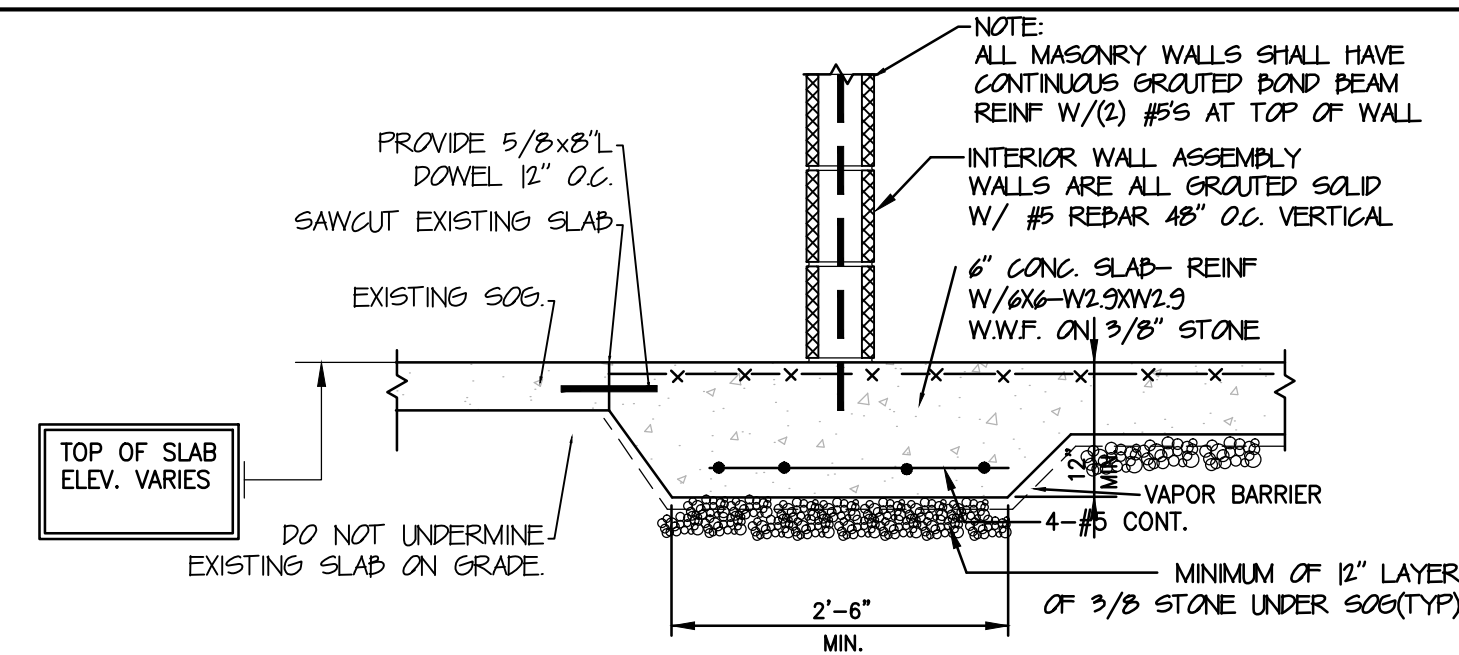
**5C** DOOR PANEL SECTION  
3'-1'-0"



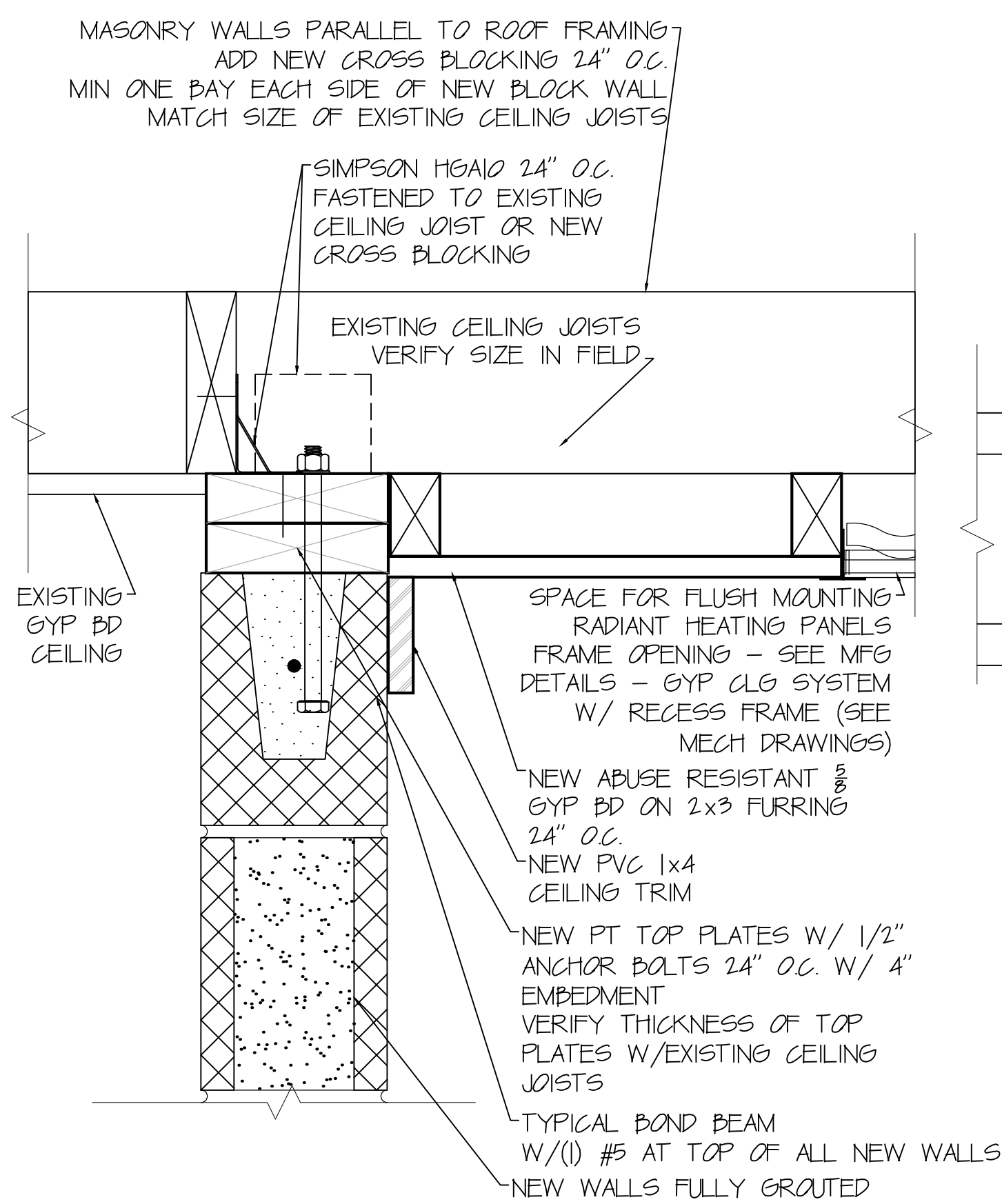
**7** WALL SINK MOUNTED ON SS CHASE WALL  
1'-1'-0"



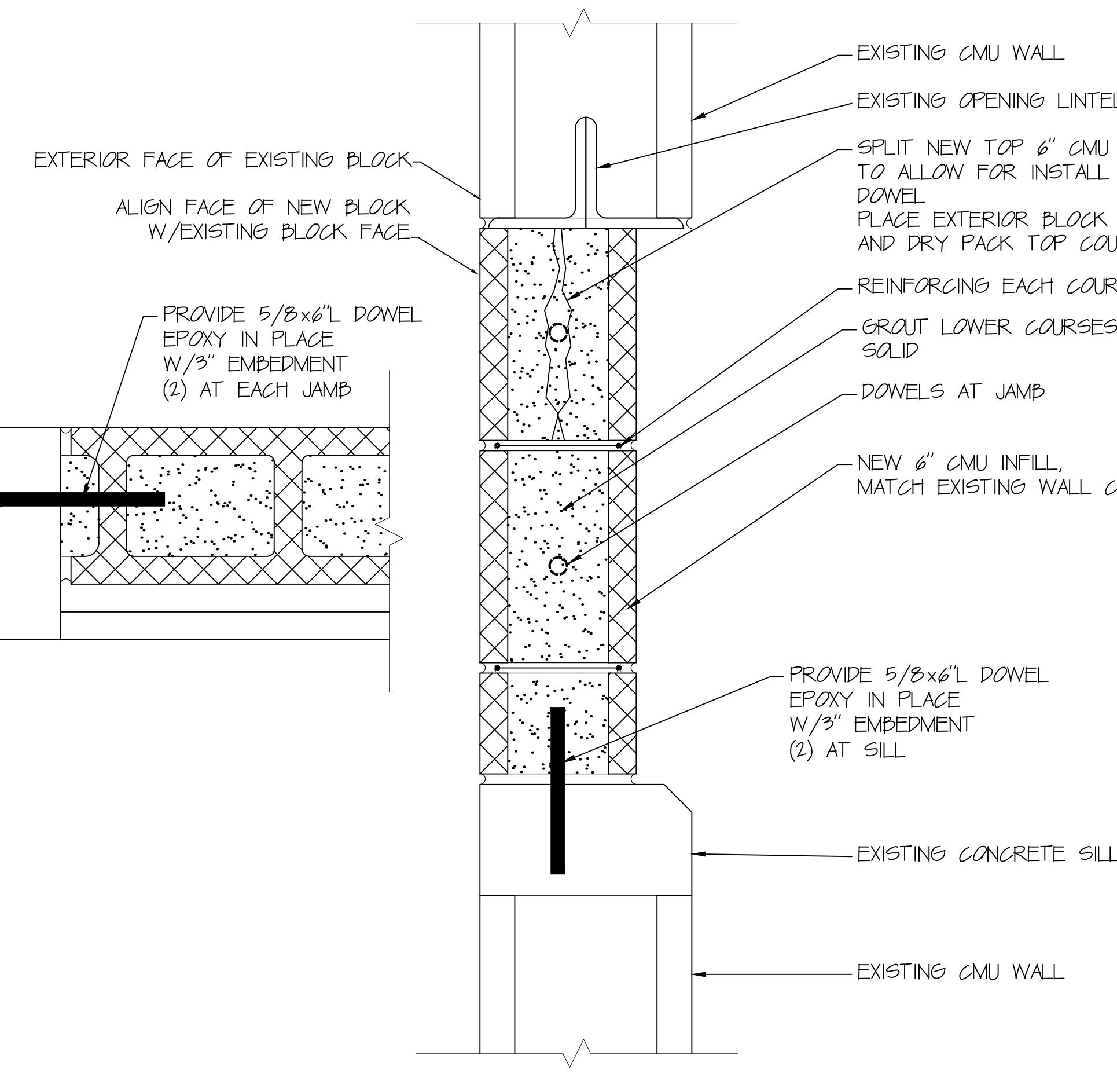
**A** WALL TYPE 'A'      **B** WALL TYPE 'B'      **C** WALL TYPE 'C'



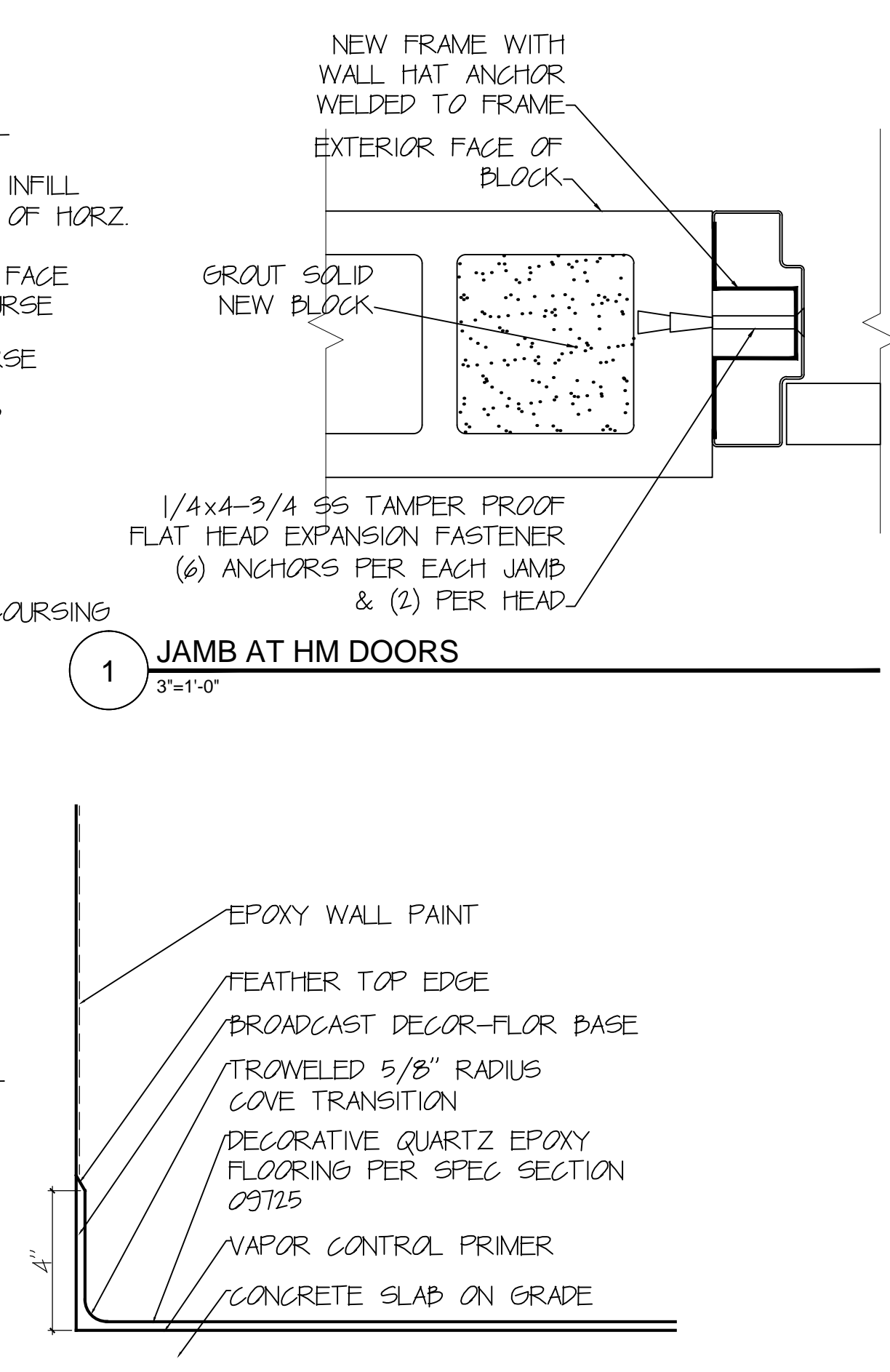
**6** INTERIOR MASONRY WALL  
3/4"-1'-0"



**4** NEW CMU WALL DETAIL  
3'-1'-0"



**1** EXISTING OPENING INFILL  
3'-1'-0"



**2** EPOXY FLOORING COVE DETAIL  
3'-1'-0"

**DOOR SCHEDULE - CONCESSION RESTROOMS**

NUMBER	DESCRIPTION	SIZE	THK	DR. MATL.	FR. MATL./THR.	CLOSER	HARDWARE	REMARKS
10A	EXISTING CONCESSION	-	-	-	-	-	-	EXISTING TO REMAIN
10B	EXISTING CONCESSION	-	-	-	-	-	-	EXISTING TO REMAIN
10C	EXISTING CONCESSION	-	-	-	-	-	-	EXISTING TO REMAIN
11A	STORAGE AREA	-	-	-	-	-	-	EXISTING TO REMAIN
11B	STORAGE AREA	±8'-0" x ±8'-0" VIF	-	-	-	-	-	SECTIONAL DOOR & TRACK BY "OVERHEAD DOOR CO." SERIES 416 W/MORTORIZED OPENER IN EXISTING OPENING SEE DETAILS 5A, 5B & 5C ON SHEET A12
12	MECHANICAL RM	±9'-0" x ±7'-0" VIF	1-3/4	FM	FM 6-3/4" D			ALL NEW DOORS, FRAMES & HARDWARE SHALL BE CECO OR CURRIES "STORMPRO 920 & 921" & SHALL BE RATED FOR 120 MPH WINDS MINIMUM WITH IMPACT FROM WIND-BORNE DEBRIS. PROVIDE MANUFACTURER TESTING DATA.
13	MEN'S RM	9'-0" x 7'-0"	1-3/4	FM	FM 6-3/4" D	YES		DOOR FRAME HEAD - VIF. ALUM SILL 1/2" H MAX.
14	WOMEN'S RM	9'-0" x 7'-0"	1-3/4	FM	FM 6-3/4" D	YES		DOOR FRAME HEAD - VIF. ALUM SILL 1/2" H MAX.

**NOTE:**  
 - ALL DOORS AND FRAMES TO BE PAINTED  
 - ALL DOOR HARDWARE TO BE #4 BRUSHED CHROME FINISH  
 - ALL DOOR Hinges TO BE STAINLESS STEEL W/ARP  
 - ALL DOOR WALL STOPS TO BE ROCKWOOD 406-32D  
 - ALL DOORS TO HAVE PERIMETER GASKETS PEMKO - 588  
 - ALL DOORS TO HAVE THRESHOLD PEMKO - 100SAT  
 - ALL DOOR FRAMES TO HAVE SILENCERS  
 - ALL DOOR FRAMES TO FIT INTO EXISTING OPENINGS FIELD  
 - VERIFY ALL DIMENSION PRIOR TO PLACING ORDER

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS	DOORS	DOOR FRAMES	CEILING	NOTES
13	MEN'S TOILET	EPOXY FLOOR FINISH (EP-F-1)	EP-F-1	EP-W-1	P-3	P-3	P-3	
14	WOMEN'S TOILET	EPOXY FLOOR FINISH (EP-F-1)	EP-F-1	EP-W-1	P-3	P-3	P-3	

EXTERIOR COLOR	DOOR	DOOR FRAME	MASONRY	EAVE	SOFFIT
	P-1	P-2	P-4	P-5	P-5

NOTES:  
 FINAL COLORS TO SELECTED BY OWNER &/OR ARCHITECT  
 ANY CONCRETE CURING COMPOUNDS OR HARDENERS TO BE USED MUST BE APPROVED BY EPOXY FLOORING MANUFACTURER

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ARCHITECT:  
**STEIN TROOST** LLC  
 architecture  
 T 203.831.9983  
 F 203.838.0662  
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CITY OF  
 NEW LONDON  
 BATES WOODS PARK  
 BUILDING  
 IMPROVEMENTS  
 PHASE II  
 NEW LONDON, CT

CONCESSION BUILDING  
 SCHEDULES  
 & DETAILS

Proj No: 2010-9  
 Date: 1/25/2013  
 Scale: AS NOTED  
 Drawn By: MIT  
 Checked By:  
 Approved By:

**A-1.2**

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 architecture

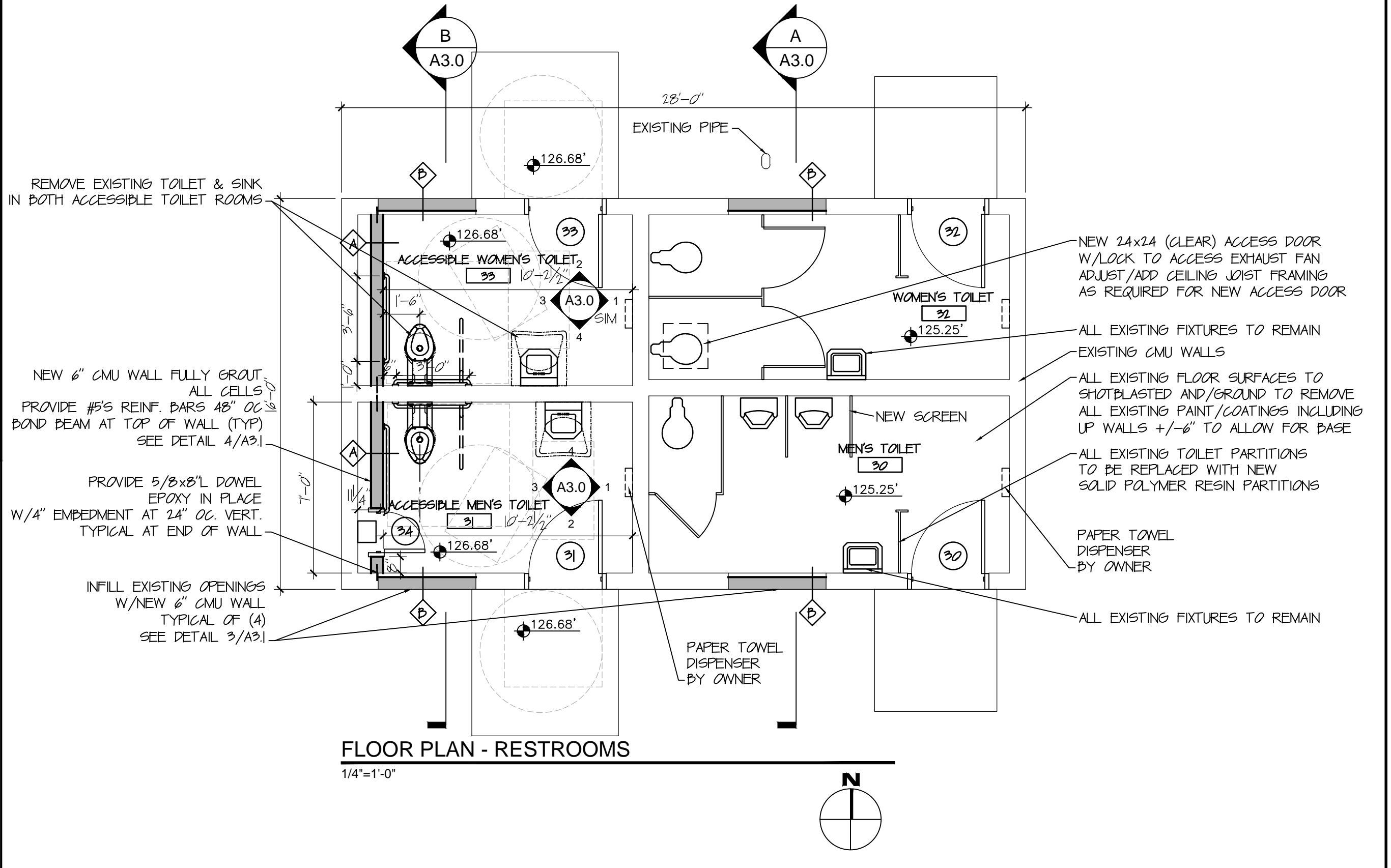
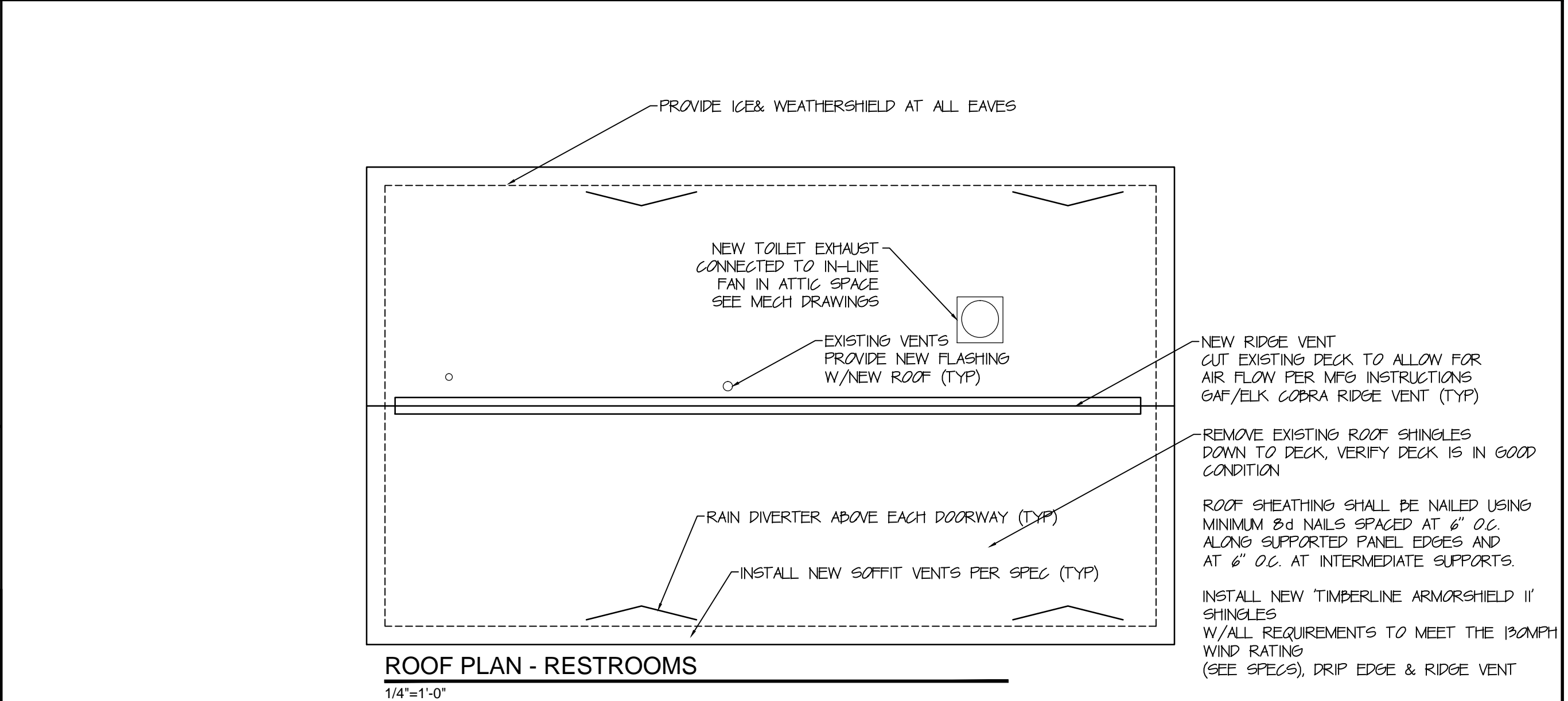
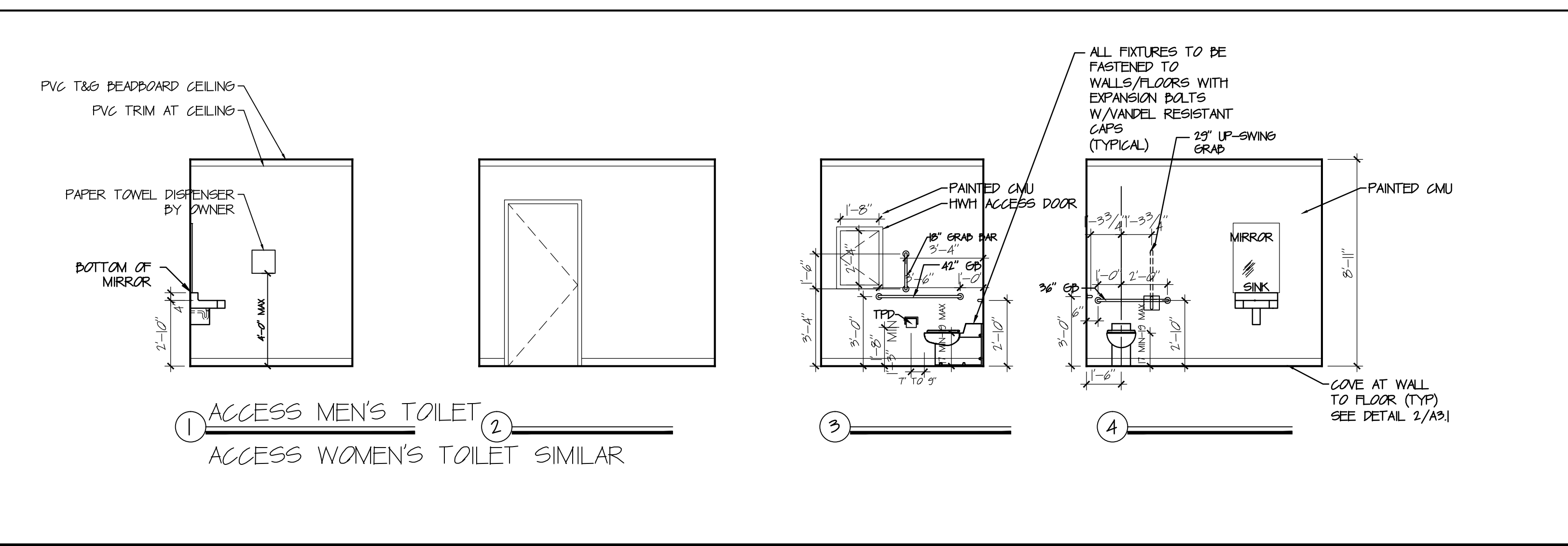
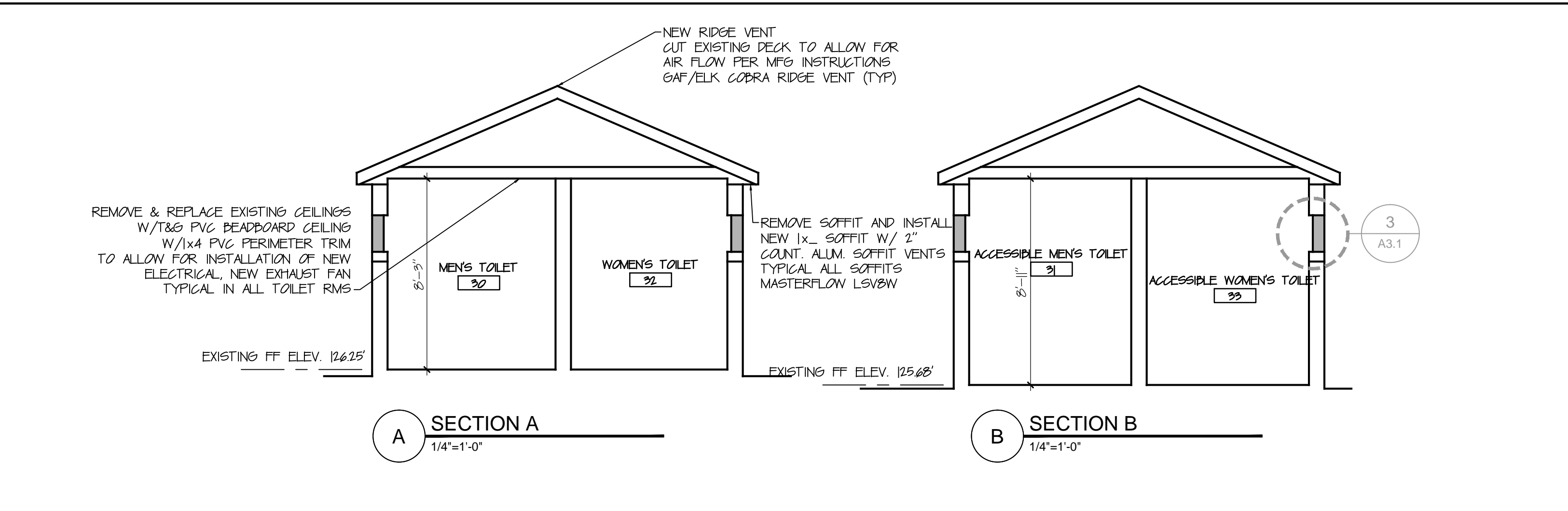
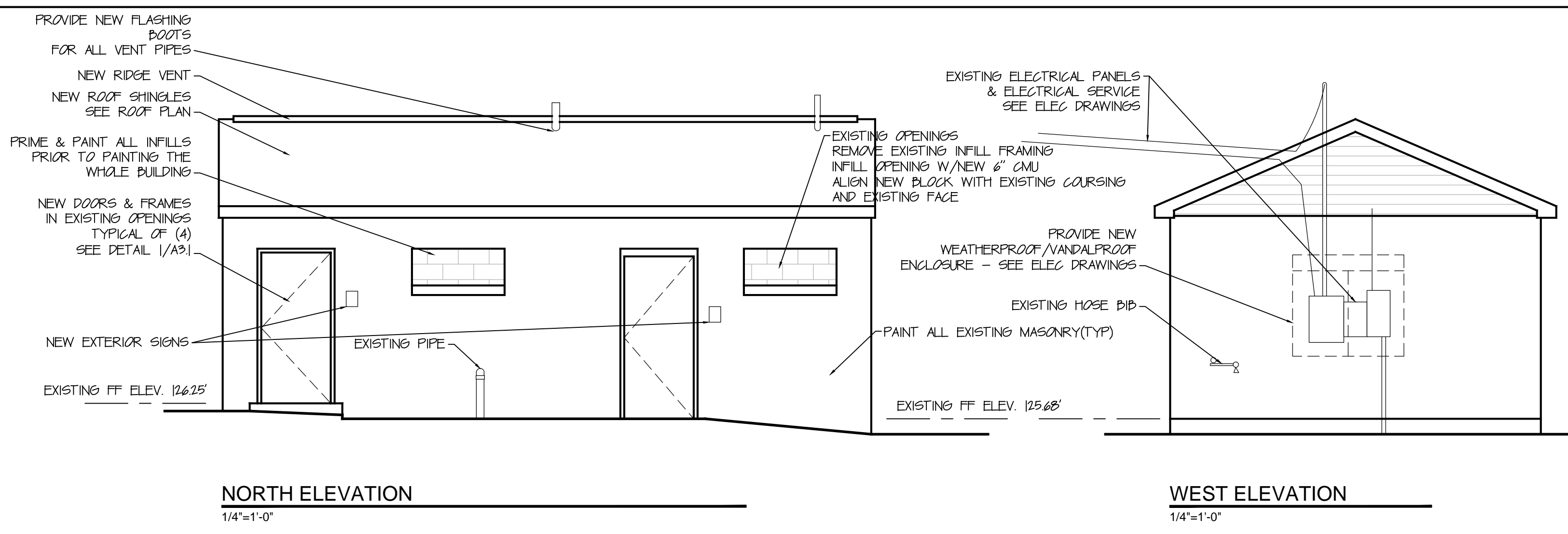
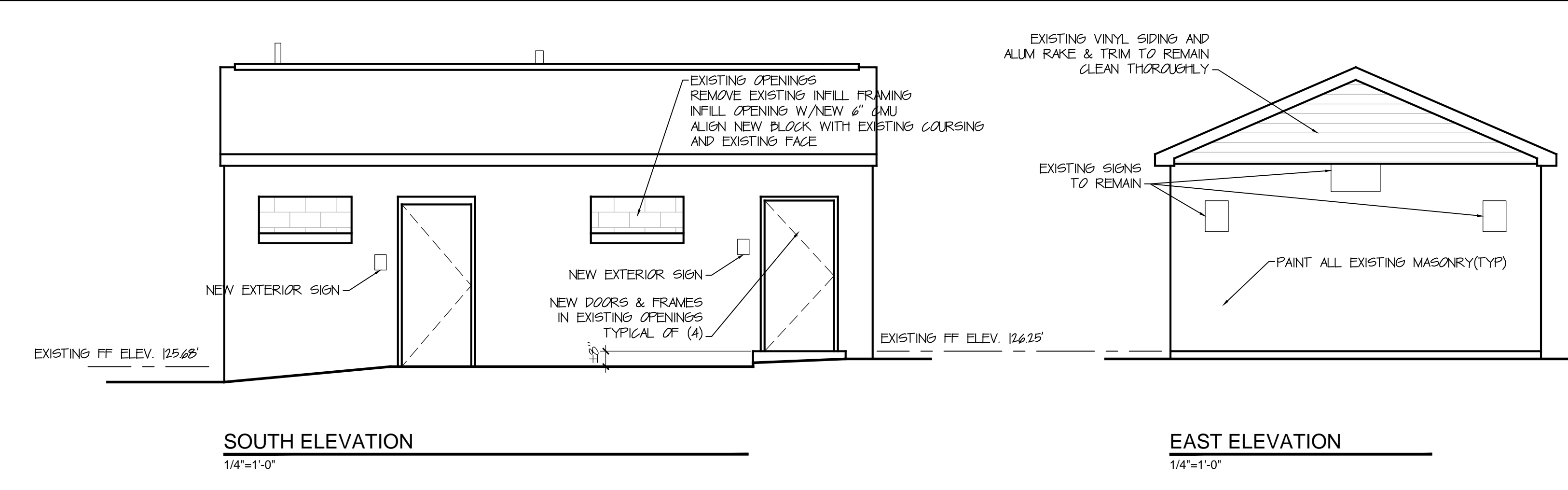
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**CITY OF  
 NEW LONDON  
 BATES WOODS PARK  
 BUILDING  
 IMPROVEMENTS  
 PHASE II  
 NEW LONDON, CT**

**RESTROOM BUILDING  
 FLOOR & ROOF  
 PLAN, ELEVATIONS  
 & SECTIONS**

Proj No: 2010-9	Date: 1/25/2013	<b>A-3.0</b>
Scale: 1/4"=1'-0"	Drawn By: MIT	
Checked By:	Approved By:	



**NOTES**

ALL DIMENSIONS ARE FROM FACE OF STUD OR MASONRY, OR FROM CENTER LINE OF STEEL UNLESS NOTED OTHERWISE

REFER TO SHEET A-3.1 FOR WALL TYPES

SEE FINISH SCHEDULE ON SHEET A-3.1

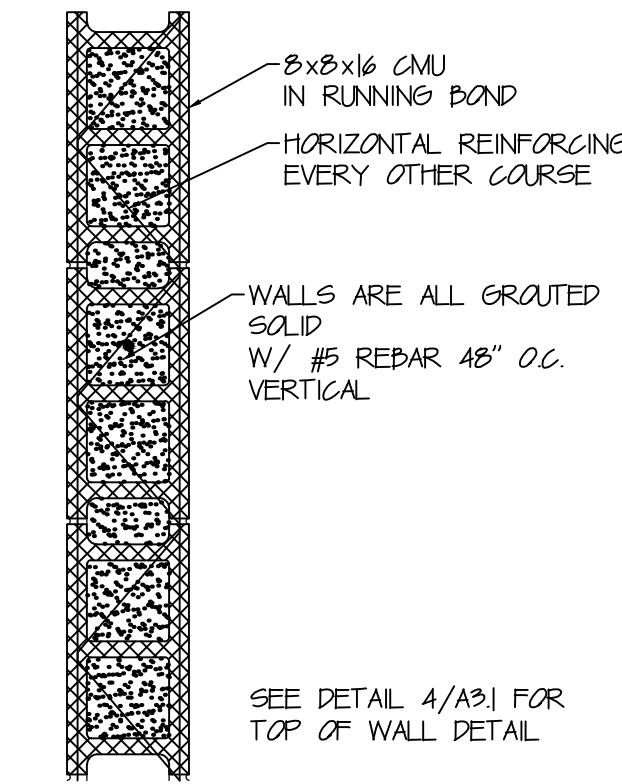
SEE DOOR SCHEDULE ON SHEET A-3.1

REFER TO LARGE SCALE DETAILS FOR MORE DETAILED DIMENSIONS- I.e. STAIRS, ELEVATOR SHAFTS, ETC.

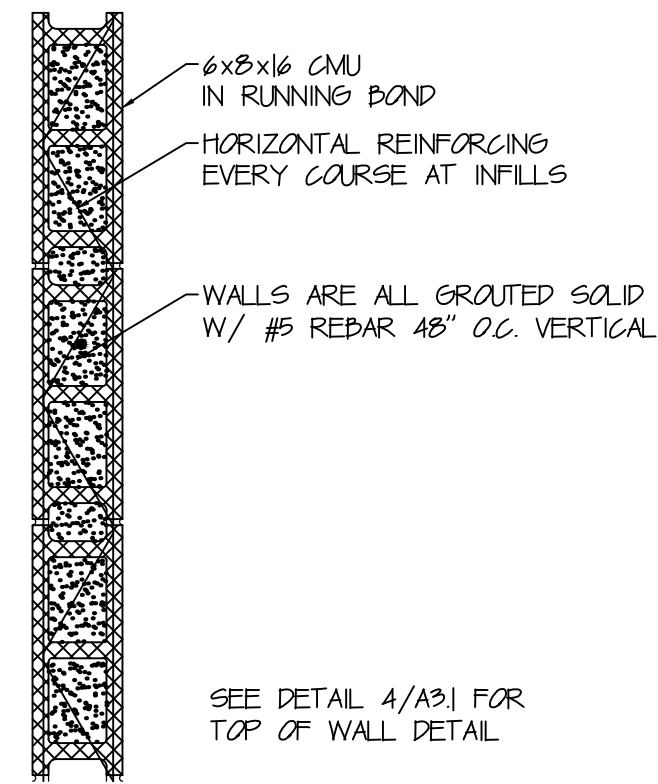
DO NOT SCALE DRAWINGS.

FIRESTOP ALL PENETRATIONS OF WALLS, RATED WALLS, FLOOR/CEILING ASSEMBLIES AND ROOF/CEILING ASSEMBLIES

WALL LEGEND	
	EXISTING WALL
	NEW WALL
	DEMO



**A WALL TYPE 'A'**



**B WALL TYPE 'B'**

**DOOR SCHEDULE - RESTROOMS**

NUMBER	Description	SIZE	THK	DR. MATL.	FR. MATL./THR.	CLOSER	HARDWARE	REMARKS
30	MENS TOILET	±8'-0" x 16'-6" VIF	1-3/4"	HM	HM-6-3/4 D	YES	ALL NEW DOORS, FRAMES & HARDWARE SHALL BE OECO OR CURRIES "STORMPRO 920 & 921" & SHALL BE RATED FOR 120 MPH WINDS MINIMUM WITH IMPACT FROM WIND-BORNE DEBRIS. PROVIDE MANUFACTURER TESTING DATA.	ALUM SILL 1/2" H MAX. DOOR FRAME W/4" HEAD, ALUM SILL 1/2" H MAX. ALUM SILL 1/2" H MAX.
31	ACCESSIBLE MENS TOILET	±8'-0" x 17'-0" VIF	1-3/4"	HM	HM-6-3/4 D	YES		
32	WOMENS TOILET	±8'-0" x 16'-6" VIF	1-3/4"	HM	HM-6-3/4 D	YES		
33	ACCESSIBLE WOMENS TOILET	±8'-0" x 17'-0" VIF	1-3/4"	HM	HM-6-3/4 D	YES		
34	HMW ACCESS DOOR	1-8' x 2'-4"	1-3/4"	HM	HM-6-3/4 D		NRP HINGES & LOCKSET, NO HANDLE ON INTERIOR	FULL DOOR FRAME AROUND PERIMETER OF DOOR

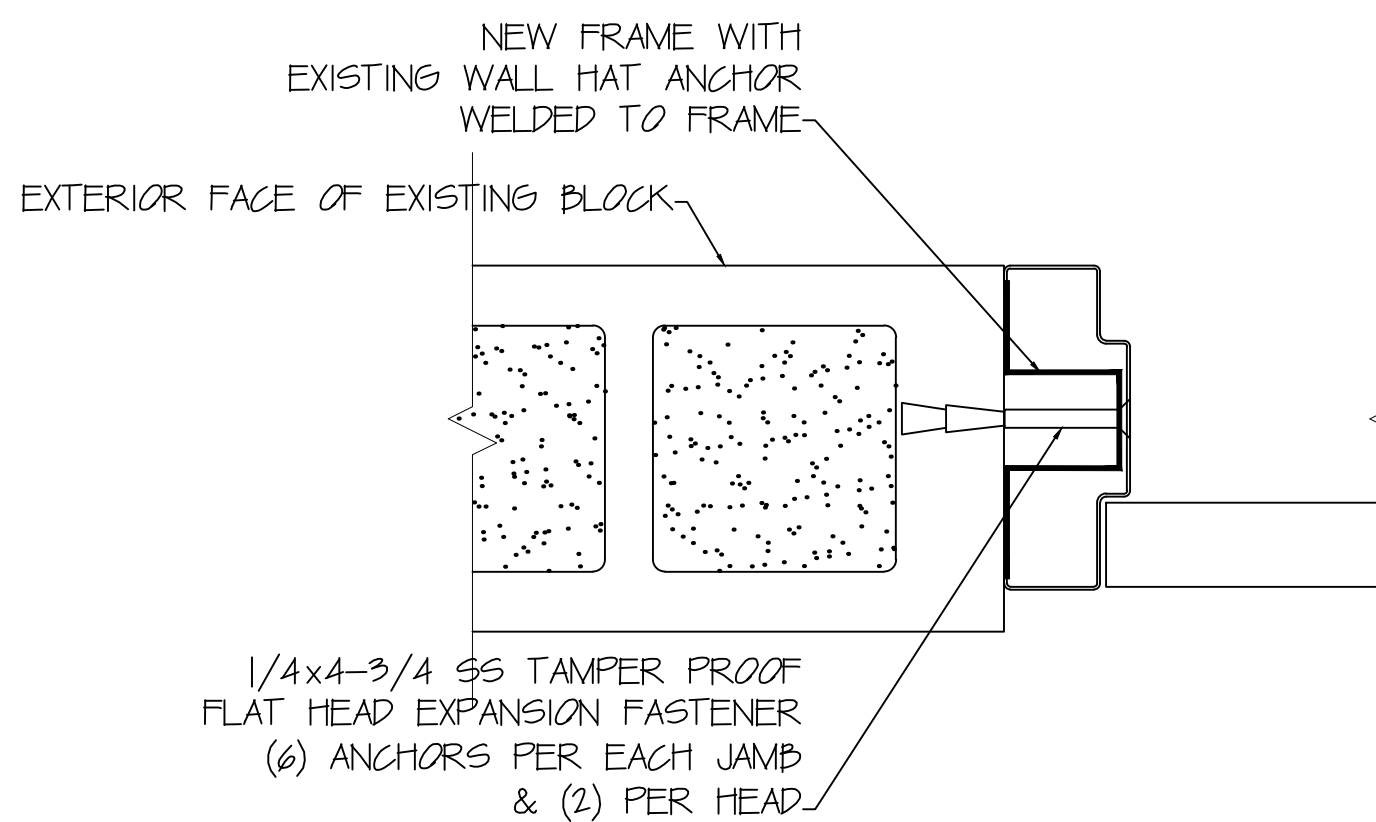
- NOTE:
- ALL DOORS AND FRAMES TO BE PAINTED
  - ALL DOOR HARDWARE TO BE #6 BRUSHED CHROME FINISH
  - ALL DOOR HINGES TO BE STAINLESS STEEL W/NRP
  - ALL DOOR WALL STOPS TO BE ROADWOOD 406-99D
  - ALL DOORS TO HAVE PERIMETER GASKETS PENKO - 500
  - ALL DOORS TO HAVE THRESHOLD PENKO - 2205AT
  - ALL DOOR FRAMES TO HAVE SILENCERS
  - ALL DOOR FRAMES TO FIT INTO EXISTING OPENINGS FIELD
  - VERIFY ALL DIMENSION PRIOR TO PLACING ORDER

**FINISH SCHEDULE**

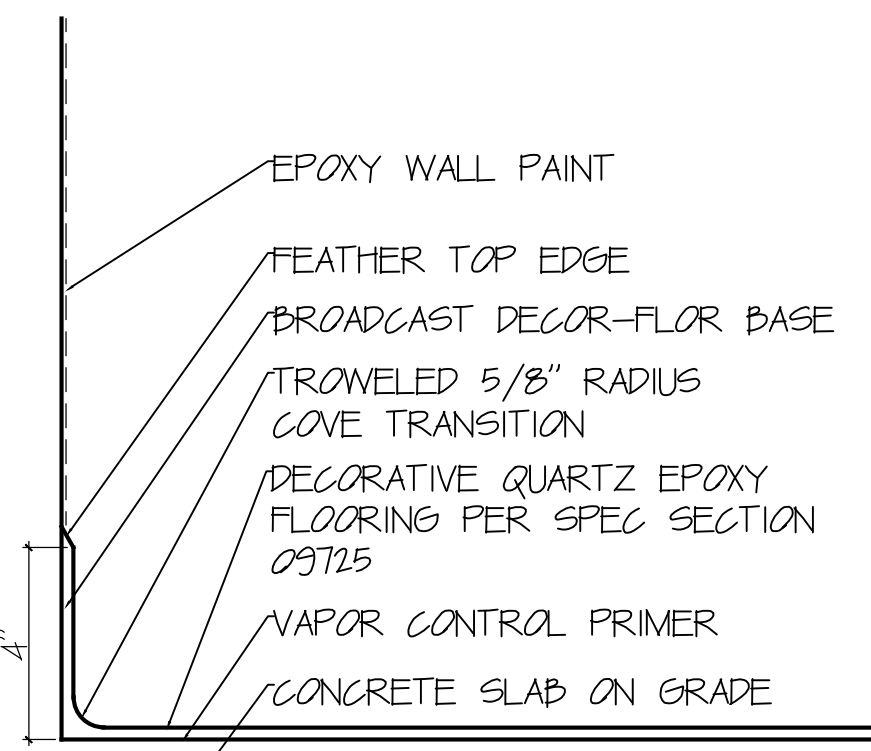
ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS	DOORS	DOOR FRAMES	CEILING	NOTES:
30	MENS TOILET	EPOXY FLOOR FINISH (EP-F-1)	EP-F-1	EP-W-1	P-3	P-3	P-3	
31	ACCESSIBLE MENS TOILET	EPOXY FLOOR FINISH (EP-F-1)	EP-F-1	EP-W-1	P-3	P-3	P-3	
32	WOMENS TOILET	EPOXY FLOOR FINISH (EP-F-1)	EP-F-1	EP-W-1	P-3	P-3	P-3	
33	ACCESSIBLE WOMENS TOILET	EPOXY FLOOR FINISH (EP-F-1)	EP-F-1	EP-W-1	P-3	P-3	P-3	

EXTERIOR COLOR	DOOR	DOOR FRAME	MASONRY	EAVE	SOFFIT
	P-1	P-2	P-4	P-6	P-6

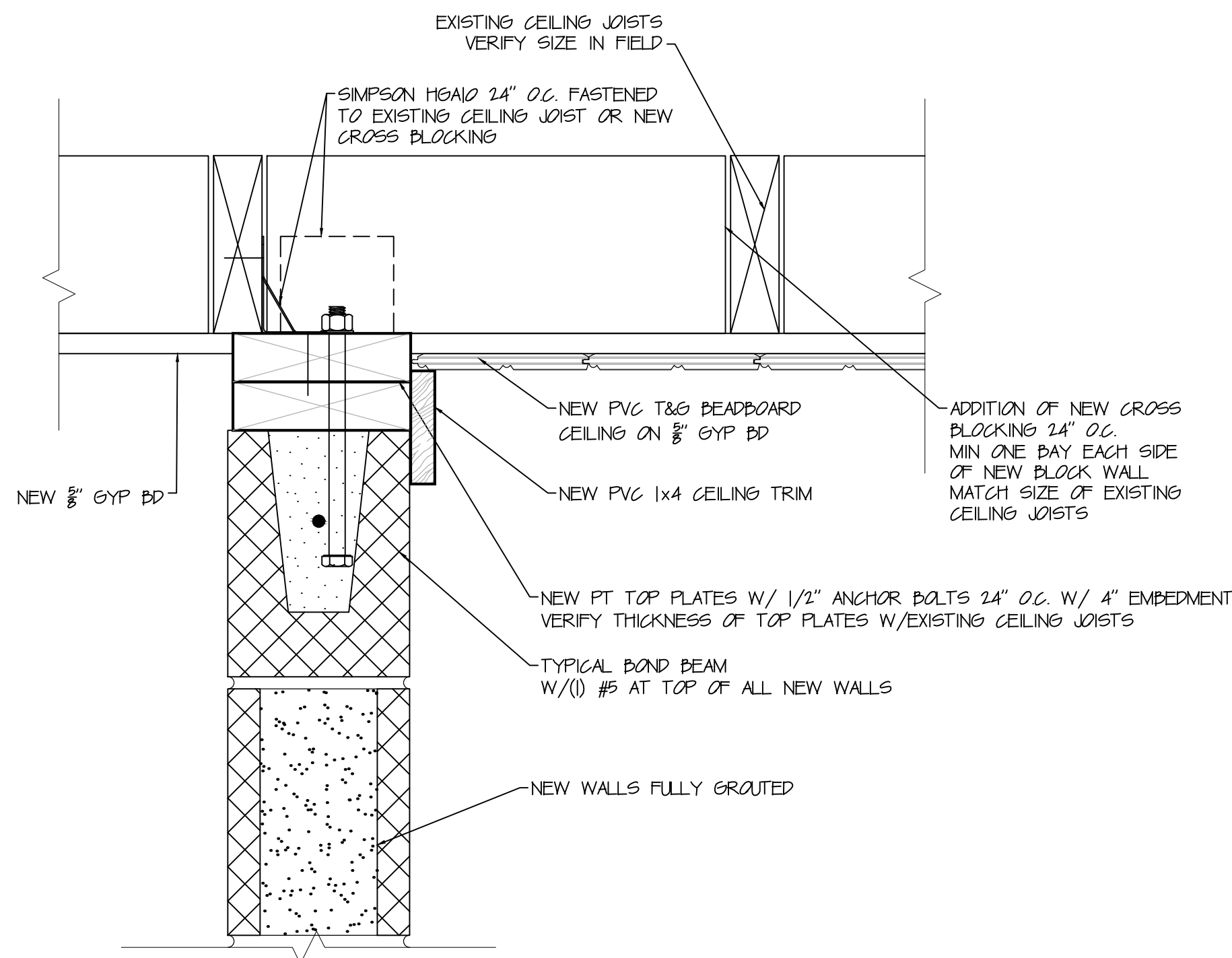
- NOTES:
- FINAL COLORS TO BE SELECTED BY OWNER &/OR ARCHITECT
  - ANY CONCRETE CURING COMPOUNDS OR HARDENERS TO BE USED MUST BE APPROVED BY EPOXY FLOORING MANUFACTURER



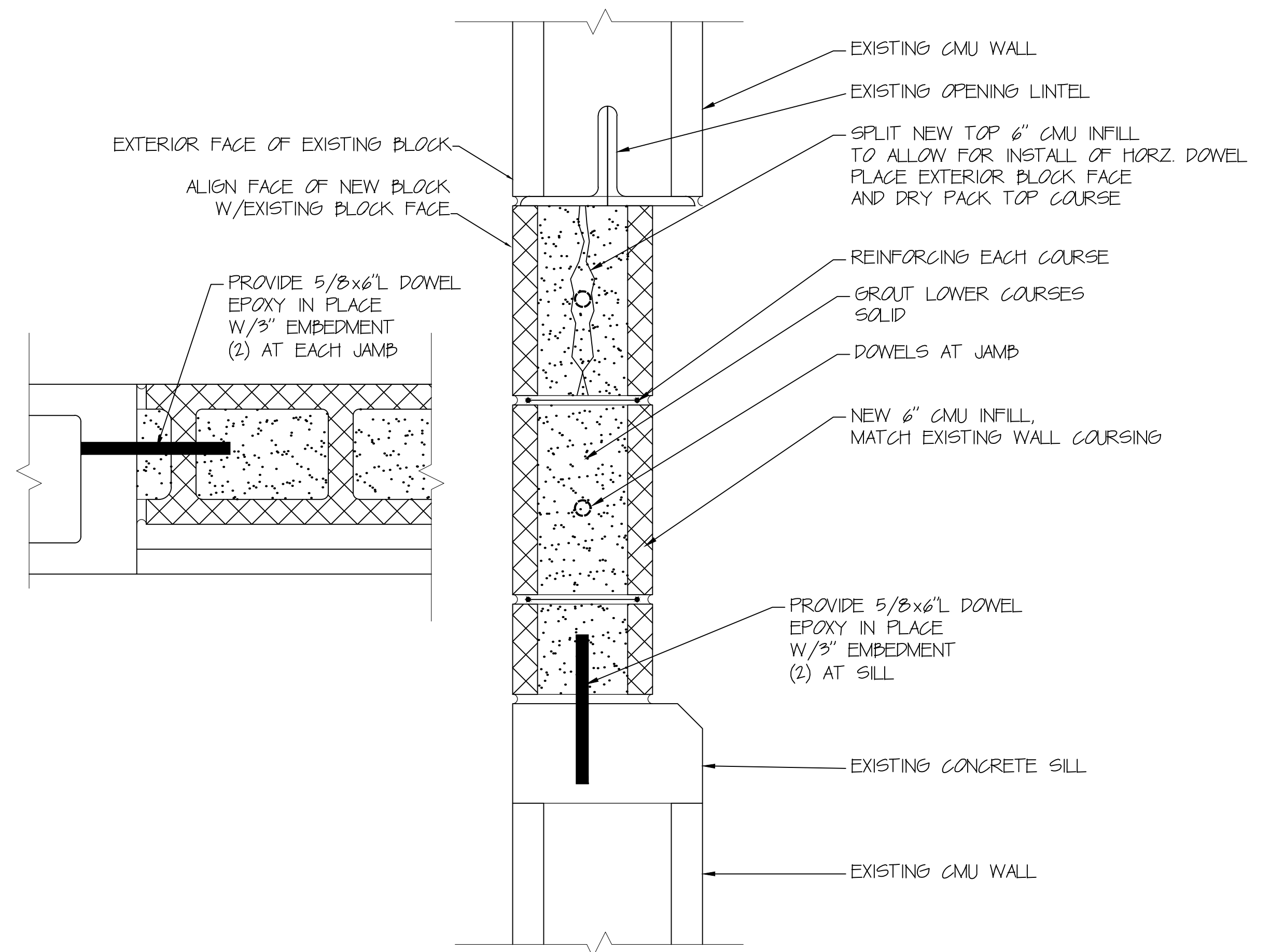
**1 JAMB AT HM DOORS**  
3"=1'-0"



**2 EPOXY FLOORING COVE DETAIL**  
3"=1'-0"



**4 NEW CMU WALL DETAIL**  
3"=1'-0"



**3 EXISTING OPENING INFILL**  
3"=1'-0"

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ARCHITECT:  
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architecture

T 203.831.9983  
F 203.838.0662  
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CITY OF  
NEW LONDON  
BATES WOODS PARK  
BUILDING  
IMPROVEMENTS  
PHASE II  
NEW LONDON, CT

RESTROOM BUILDING  
DETAILS &  
SCHEDULES

Proj No: 2010-9  
Date: 1/25/2013  
Scale: AS NOTED  
Drawn By: MIT  
Checked By:  
Approved By:

**A-3.1**

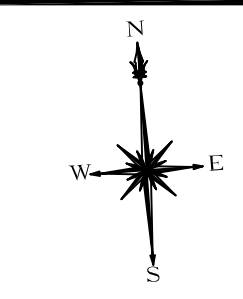
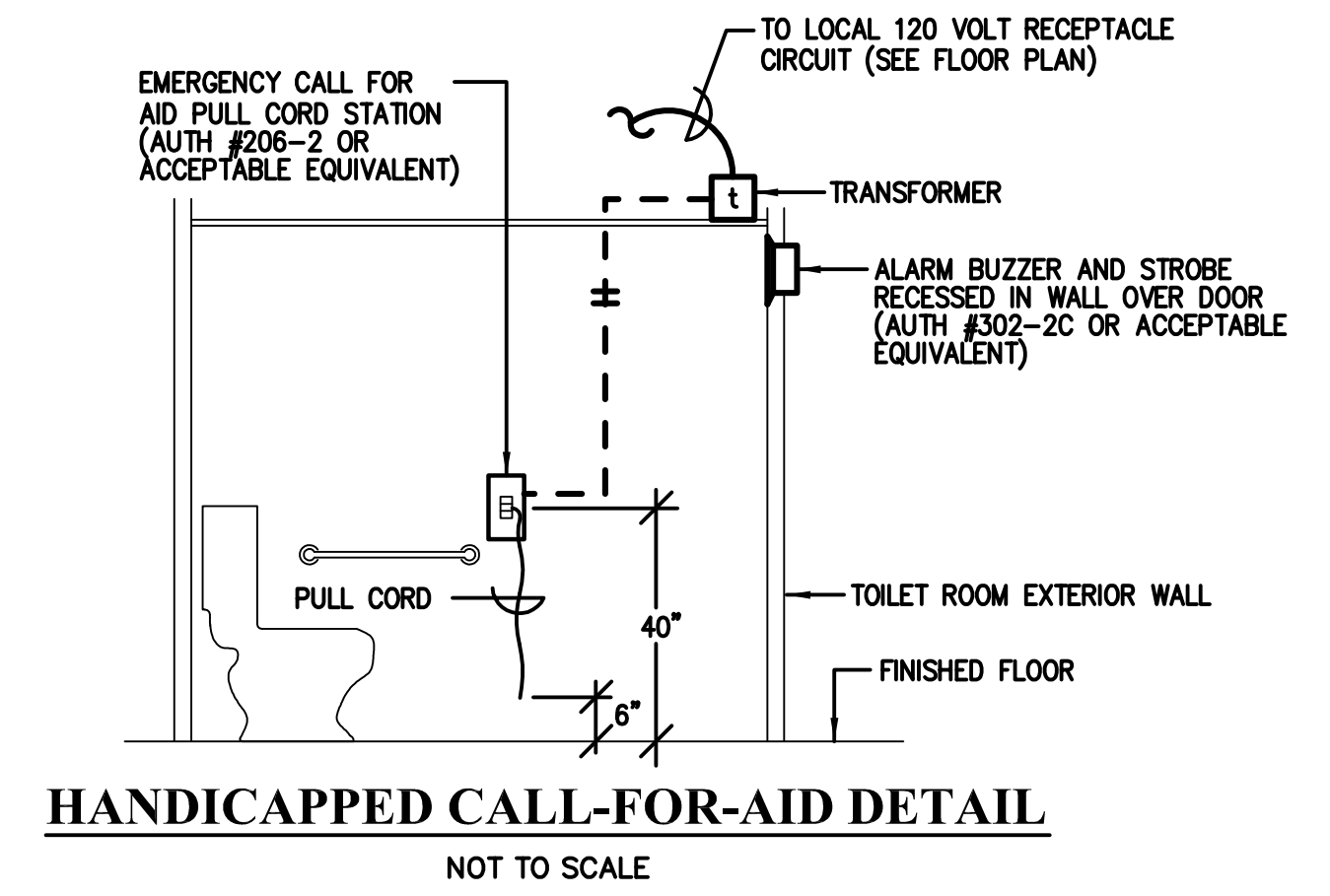
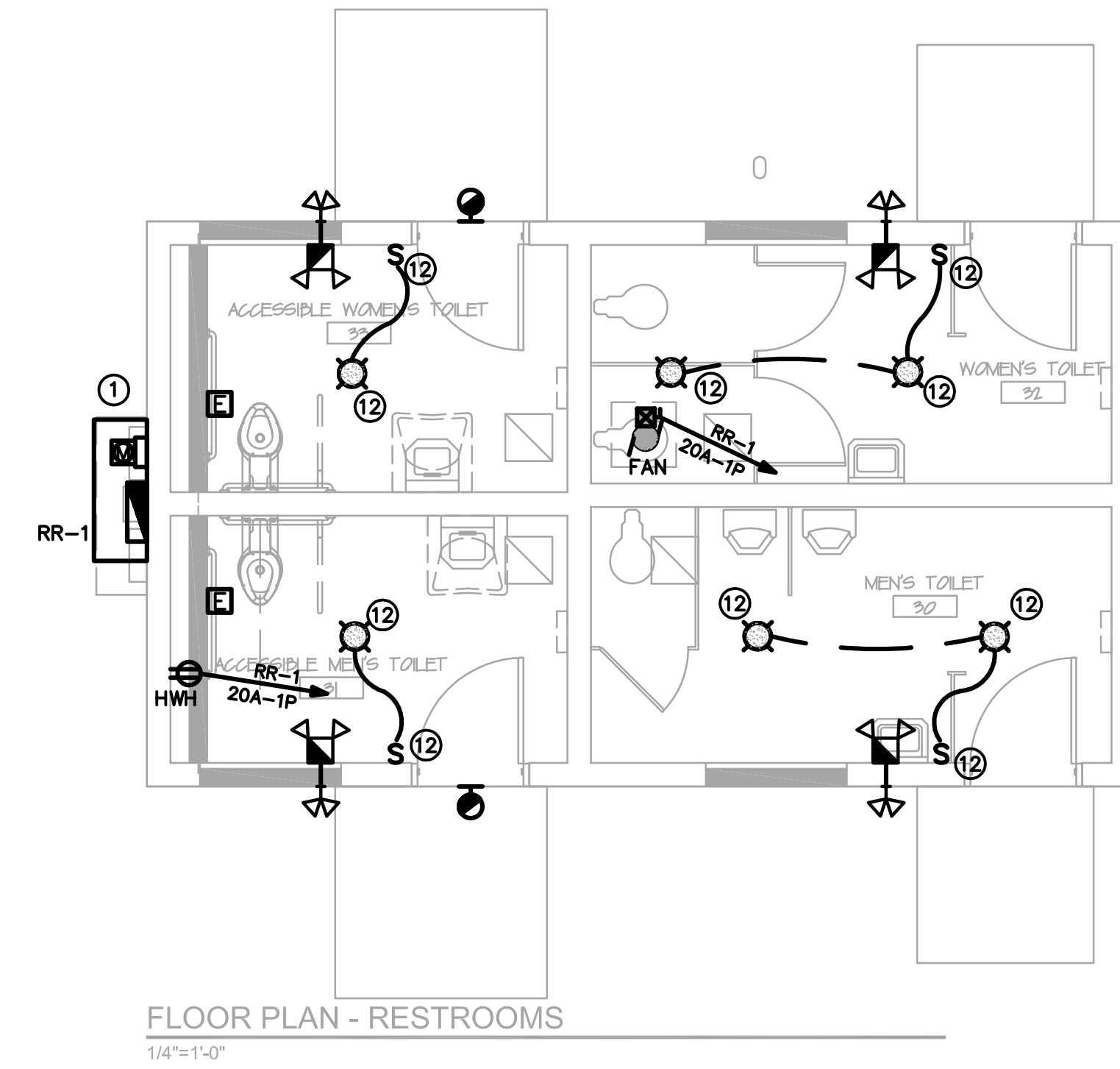
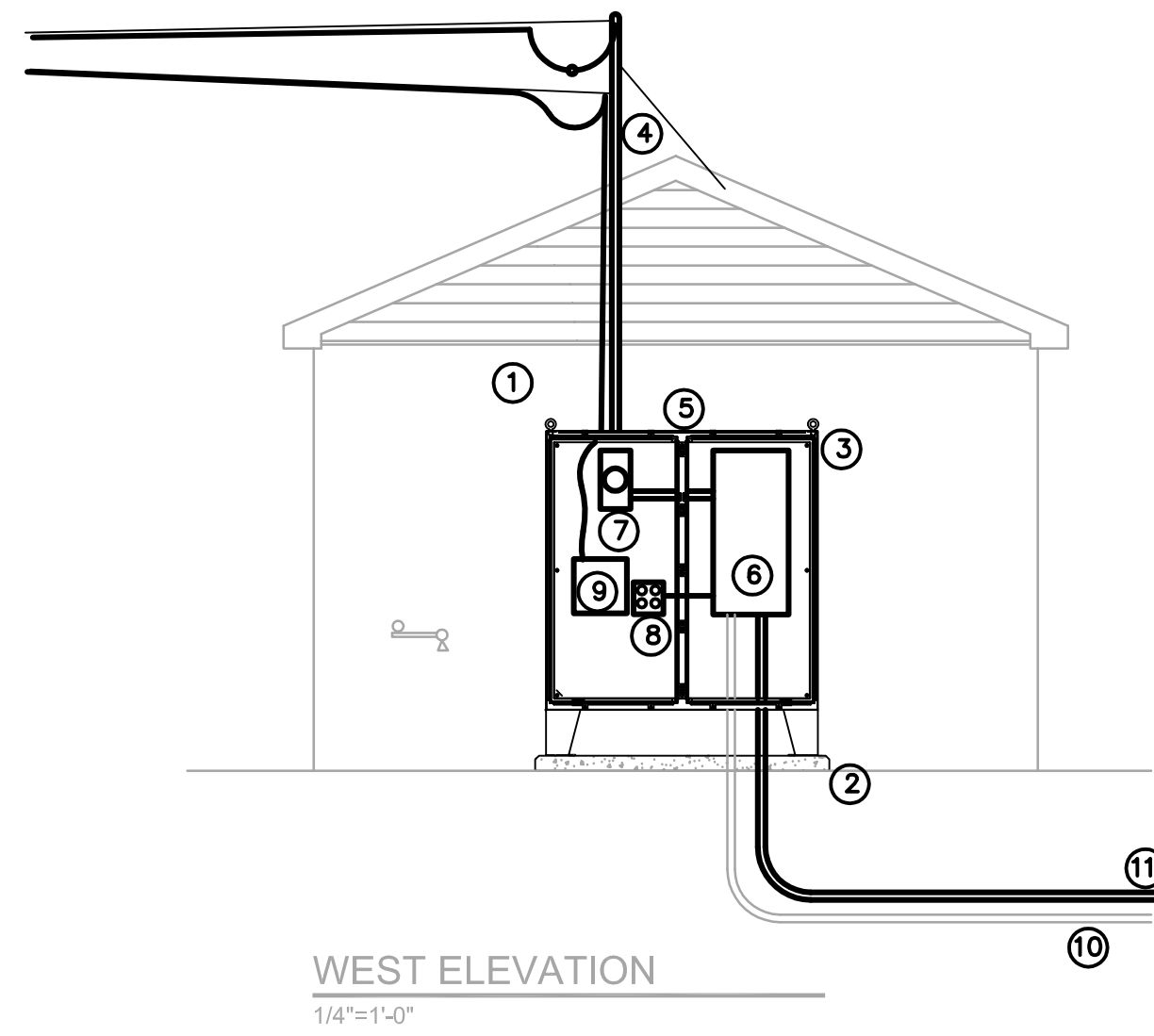




DATE PLOTTED: 1/25/2013 10:08 AM, PLOTTER: HP DesignJet T1100, PLOT SCALE: 1/4"=1'-0"

**DRAWING KEY NOTES:**

- ① REMOVE EXISTING OVERHEAD SERVICE DROP, SERVICE MAST, METER AND SOCKET, MAIN CIRCUIT BREAKER AND CIRCUIT BREAKER PANEL AND REPLACE WITH NEW.
- ② 26"X78"X6" REINFORCED CONCRETE PAD
- ③ 74"X72"X24" NEMA-4X STAINLESS STEEL ELECTRICAL ENCLOSURE TO HOUSE NEW UTILITY METER AND CIRCUIT BREAKER PANEL. ENCLOSURE IS HOFFMAN A-74H7224SSLP WITH FACTORY CUSTOM STAINLESS STEEL 45 DEGREE ANGLED TOP, STAINLESS STEEL DRIP KIT A-DK72SS6 AND STAINLESS STEEL PANEL INSERT A-72P72. DRIP KIT AND PANEL INSERT ARE CUSTOM. ENCLOSURE TO BE BOLTED TO NEW PAD AND TO EXISTING CONCRETE BLOCK WALL.
- ④ 2" RIGID GALVANIZED STEEL SERVICE MAST 10' TALL WITH WEATHER HEAD AND GUY WIRE AS SHOWN. REWORK EXISTING ELECTRICAL AND TELEPHONE SERVICE DROPS SUCH THAT WIRES DO NOT DROP TO LESS THAN 15' ABOVE FINISHED GRADE ALONG ENTIRE LENGTH OF WIRE. PROVIDE SEPERATE 1" RIGID CONDUIT AND WEATHER HEAD FOR TELEPHONE SERVICE.
- ⑤ TELEPHONE DEMARK, 200A 120/240V ELECTRICAL METER & SOCKET AND 200A PANELBOARD LOCATED WITHIN INTERIOR OF NEW ELECTRICAL ENCLOSURE.
- ⑥ PANELBOARD RR-1 IS SERVICE ENTRANCE RATED 120/240V, 1PH-3W, 200A, MCB, 24-SPACE, 10K AIC WITH (2) 100A-2P AND (8) 20A-1P CIRCUIT BREAKERS. CIRCUIT BREAKERS ARE TO BE SWITCH DUTY RATED. RR-1 FEEDER IS 3#3/0 COPPER IN 2" CONDUIT. PROVIDE NEW SERVICE ENTRANCE GROUNDING PER NEC.
- ⑦ 200A METER SOCKET PER UTILITY COMPANY STANDARDS.
- ⑧ GFI DOUBLE DUPLEX RECEPTACLE. FEED FROM 20A-1P BREAKER IN RR-1.
- ⑨ TELEPHONE DEMARK.
- ⑩ REWORK EXISTING CONDUIT AND 100A CIRCUIT TO NEW PANEL AND ENCLOSURE. ALL CONDUIT EXPOSED ABOVE GRADE TO BE RIGID GALVANIZED STEEL.
- ⑪ NEW FEEDER CONDUIT TO STORAGE BUILDING. ALL CONDUIT EXPOSED ABOVE GRADE TO BE RIGID GALVANIZED STEEL.
- ⑫ REMOVE AND REPLACE EXISTING FIXTURE OR SWITCH WITH NEW



**PROGRESSIVE ENGINEERING, INC.**  
28 MAIN STREET, EAST HARTFORD, CT 06118  
TEL: 860.285.8898 FAX: 860.285.6386  
REV # 1 2013A

REVISIONS

PLUMBING FLOOR PLAN - RESTROOM BUILDING

BATES WOODS PARK  
PHASE II BUILDING IMPROVEMENTS

NEW LONDON, CONNECTICUT

DESIGNED	DRAWN	CHECKED
SCALE	1/4" = 1'-0"	
DATE <b>JANUARY 25, 2013</b>		
MMI PROJECT NO. -		
NEW LONDON PROJ. NO.		

**GENERAL DEMOLITION NOTES:**

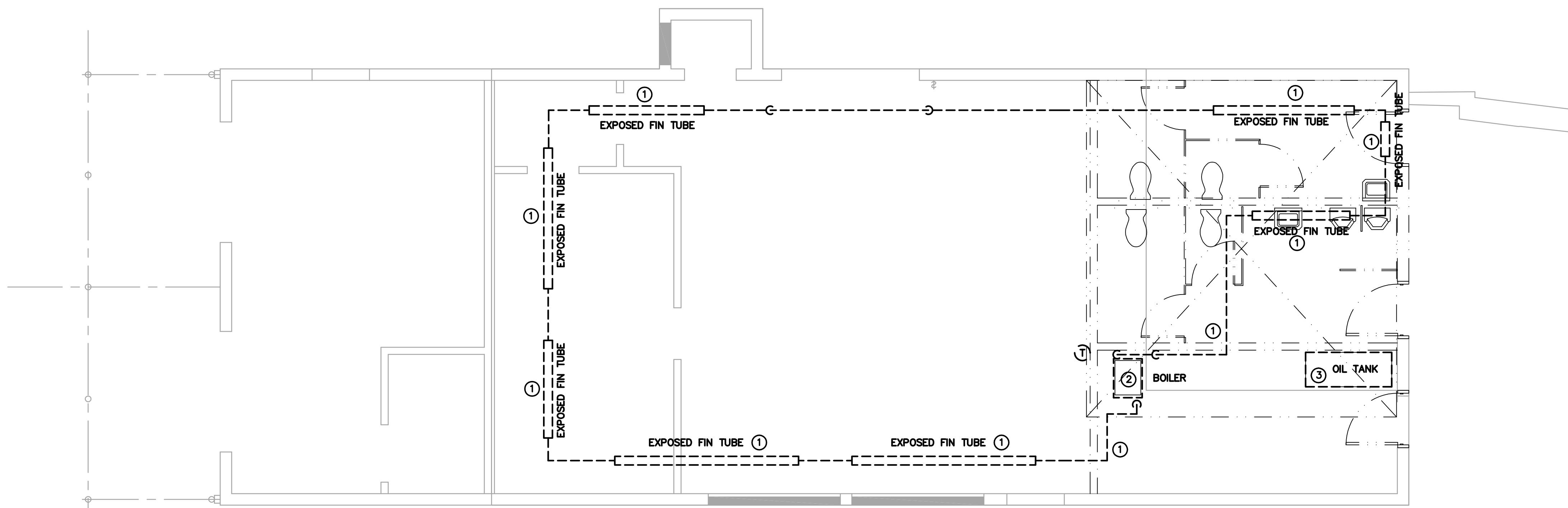
1. NOTES AND GRAPHIC REPRESENTATIONS DO NOT LIMIT EXTENT OF DEMOLITION.
2. VERIFY AND LABEL SUPPLY AND RETURN OIL LINES BEFORE DEMOLITION.
3. REMOVE ALL EXISTING TEMPERATURE CONTROL PANELS, WIRING, CONTROL TUBING, PANELS AND AIR COMPRESSOR, ETC..
4. DISCONNECT EQUIPMENT AND DEVICES PRIOR TO ANY DEMOLITION WORK. REMOVE DEMOLISHED EQUIPMENT FROM SITE AND DISPOSE OF IN ACCORDANCE WITH APPLICABLE LAWS AND ENVIRONMENTAL REGULATIONS.
5. VISIT SITE AND EXAMINE CONDITIONS. BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES AFFECTING EXECUTION OF WORK PRIOR TO SUBMISSION OF PROPOSAL. SUBMISSION OF PROPOSAL WILL BE CONSTRUED AS EVIDENCE AN EXAMINATION HAS OCCURRED. LATER CLAIMS FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED FOR ENCOUNTERED DIFFICULTIES WILL NOT BE RECOGNIZED BECAUSE CONDITIONS WERE PRESENT DURING SITE EXAMINATION.
6. EXTENT OF DEMOLITION WORK INCLUDES, BUT NOT LIMITED TO, MECHANICAL WORK ASSOCIATED WITH REMOVAL OF BOILERS, PUMPS, EXPANSION TANK, AND PIPING IN BOILER ROOM AS INDICATED. DEMOLITION ALSO INCLUDES COMPLETE REMOVAL ATC SYSTEM AND ALL COMPONENTS UNLESS OTHERWISE NOTED.
7. OWNER MAINTAINS RIGHT TO RETAIN REMOVED EQUIPMENT IF IDENTIFIED TO CONTRACTOR BEFORE DISPOSAL. ONCE EQUIPMENT IS RETAINED, MOVE TO MUTUALLY ACCEPTABLE LOCATION.

**GENERAL NOTES:**

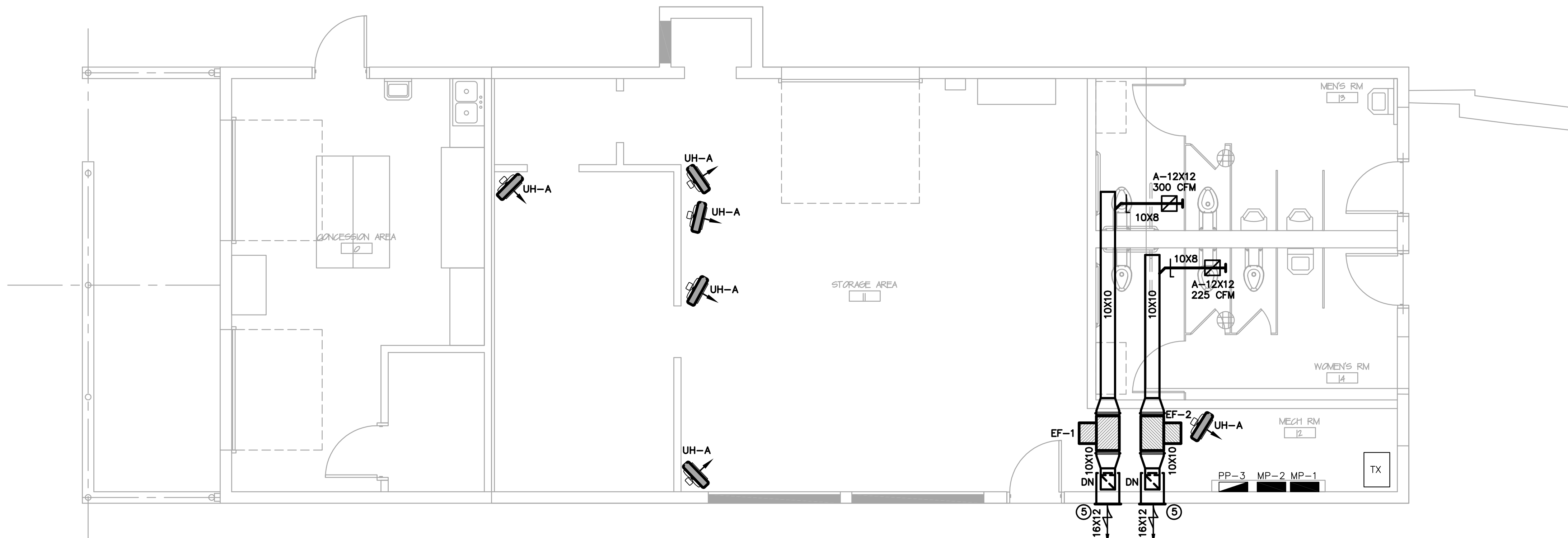
1. COORDINATE ALL SHUTDOWNS WITH OWNER TWO WEEKS IN ADVANCE OF WORK. CONTRACTORS ARE NOT TO EFFECT NORMAL HOURS OF OPERATION.
2. GENERAL DRAWING NOTES APPLY TO ALL MECHANICAL DRAWINGS.
3. FIELD VERIFY EXACT LOCATIONS OF EXISTING PIPING, STRUCTURAL AND ELECTRICAL ITEMS FOR COORDINATION OF NEW EQUIPMENT AND WORK.
4. DUCTWORK DIMENSIONS INDICATED ON PLANS ARE CLEAR INSIDE DIMENSIONS. PROVIDE TURNING VANES IN MITERED FITTINGS.
5. COORDINATE DUCTWORK ROUTING WITH ALL TRADES. PROVIDE OFFSETS AND FITTINGS AS REQUIRED FOR INSTALLATION. CONTRACTOR SHALL BEAR COSTS ASSOCIATED WITH ROUTING MODIFICATIONS.
6. PROVIDE DUCTWORK TRANSITIONS FOR FANS. PROVIDE FLEXIBLE DUCTWORK CONNECTORS ON INLET AND OUTLET OF NEW FANS.
7. BRACE AND SUPPORT DUCTWORK AND EQUIPMENT.
8. VERIFY EQUIPMENT CONNECTIONS WITH MANUFACTURER'S INSTALLATION DRAWINGS. PROVIDE DUCT TRANSITIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE DIMENSIONS BEFORE FABRICATION.
9. PROVIDE ALL SERVICE/ACCESS CLEARANCES FOR MECHANICAL EQUIPMENT PER MANUFACTURERS' INSTRUCTIONS AND RECOMMENDATIONS. COORDINATE PRIOR TO INSTALLATION OF EQUIPMENT, PIPING, AND DUCTWORK.
10. BALANCE NEW AIR SYSTEMS TO QUANTITIES INDICATED. BALANCE DIFFUSERS AND FANS.
11. CONTRACTOR SHALL BEAR THE COST OF ALL FEES, PERMITS, LICENSES AND TAXES IN CONNECTION WITH THE INDICATED WORK.

**DRAWING KEY NOTES:**

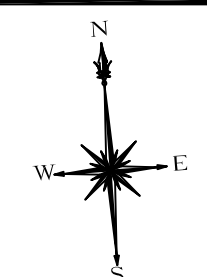
- ① REMOVE PIPING AND RADIATION AS INDICATED.
- ② REMOVE BOILER AND ASSOCIATED PIPING, CONTROLS AND ELECTRICAL.
- ③ REMOVE EXISTING OIL TANK AND ALL ASSOCIATED PIPING.
- ④ REMOVE EXISTING OIL TANK AND ALL ASSOCIATED PIPING.
- ⑤ PROVIDE EXTERIOR VANDEL PROOF WALL LOUVER AS MANUFACTURED BY GREENHECK MODEL ESD-6350 WITH BIRSCREEN SCREEN.



**DEMOLITION FLOOR PLAN**



**NEW WORK FLOOR PLAN**



**PROGRESSIVE ENGINEERING, INC.**  
 28 MAIN STREET, EAST HARTFORD, CT 06118  
 TEL: 860.955.8888 FAX: 860.955.8386  
 REG. # 1-2024

REVISIONS

MECHANICAL FLOOR PLAN - CONCESSION BUILDING

BATES WOODS PARK  
 PHASE II BUILDING IMPROVEMENTS

NEW LONDON, CONNECTICUT

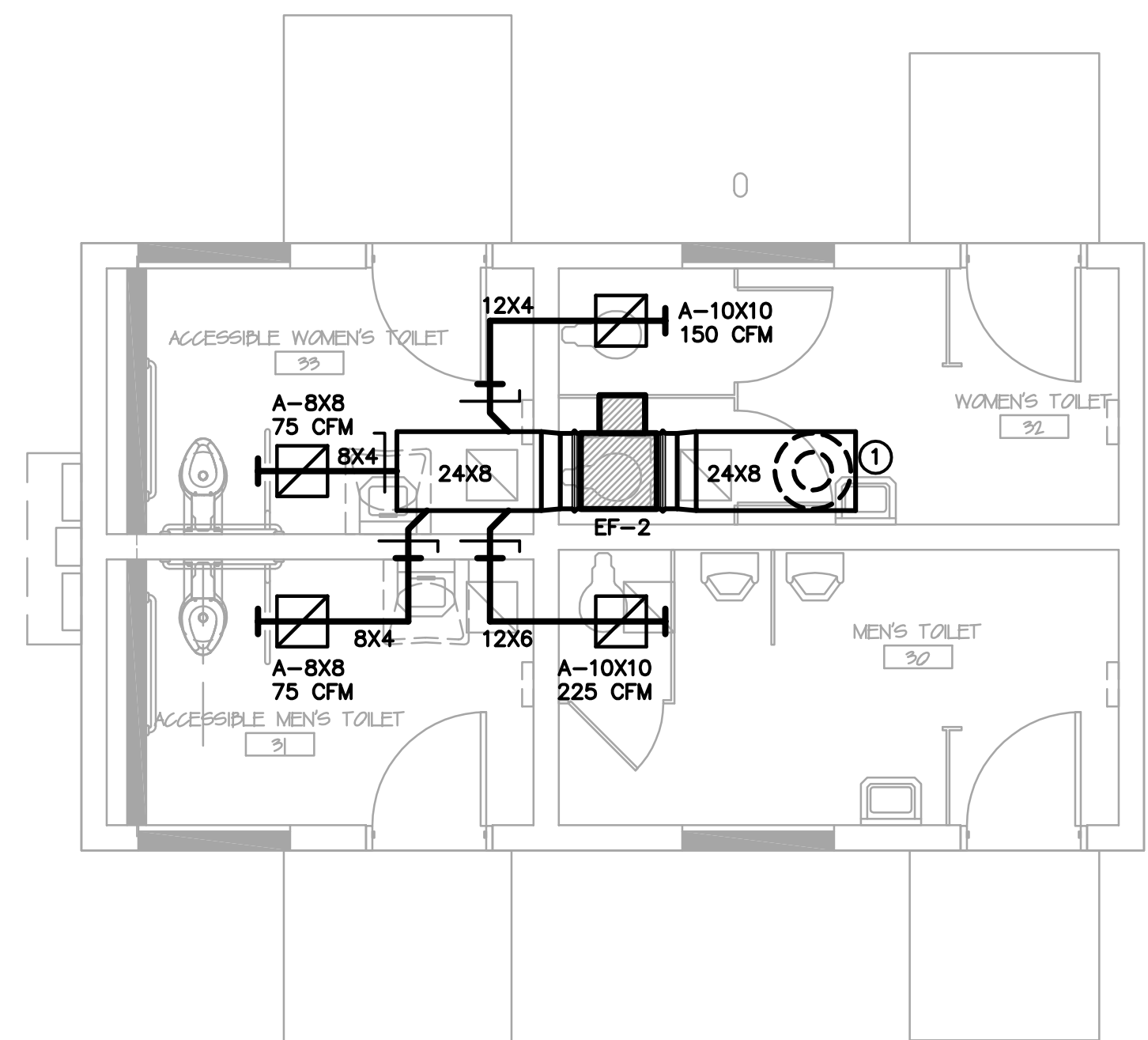
DESIGNED: \_\_\_\_\_ DRAWN: \_\_\_\_\_ CHECKED: \_\_\_\_\_  
 SCALE: \_\_\_\_\_  
 DATE: **JANUARY 25, 2013**  
 MMI PROJECT NO. - \_\_\_\_\_  
 NEW LONDON PROJ. NO. \_\_\_\_\_

**M-1**  
 SHEET IN SET

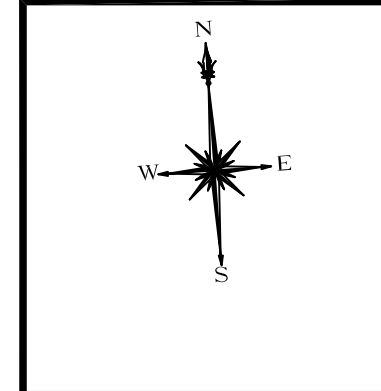
NOTES: 1. SEE SHEET M-1 FOR ROOM SCHEDULES AND FINISHES. 2. SEE SHEET M-1 FOR MECHANICAL ROOM SCHEDULES. 3. SEE SHEET M-1 FOR ELECTRICAL ROOM SCHEDULES. 4. SEE SHEET M-1 FOR PLUMBING ROOM SCHEDULES.

**DRAWING KEY NOTES:**

- ① ROOF DISCHARGE, MODEL GRS-12 MANUFACTURED BY GREENHECK. PROVIDE ALL ALUMINUM CONSTRUCTION, BIRD SCREEN AND CURB CAP.



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



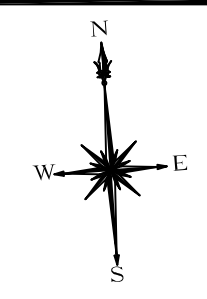
**PROGRESSIVE ENGINEERING, INC.**  
28 MAIN STREET, EAST HARTFORD, CT 06118  
TEL: 860.655.8800 FAX: 860.655.8286  
P.E. # 1 28224

**REVISIONS**

NO.	DESCRIPTION

**MECHANICAL FLOOR PLAN - RESTROOM BUILDING**  
**BATES WOODS PARK**  
**PHASE II BUILDING IMPROVEMENTS**  
**NEW LONDON, CONNECTICUT**

DESIGNED	DRAWN	CHECKED
SCALE 1/4" = 1'-0"		
DATE <b>JANUARY 25, 2013</b>		
MMI PROJECT NO. -		
NEW LONDON PROJ. NO.		



### ELECTRIC UNIT HEATER SCHEDULE

SYMBOL	MODEL	CFM	WATTS	MBH	AMPS	V	#	ACCESSORIES
UH-A	MWUH-5004	270	1875	6.4	9.0	208	1	2,3,4

- NOTES:  
 1. UNIT SELECTION BASED ON QMARK; EQUIVALENT MANUFACTURERS BY BEACON MORRIS AND BERKO.
- ACCESSORIES:  
 1. SEMI-RECESSED SURFACE MOUNTING FRAME MODEL AWH-S-1.  
 2. PROVIDE DISCONNECT SWITCH.  
 3. INTERNAL THERMOSTAT.  
 4. HORIZONTAL MOUNTING KIT.

### FAN SCHEDULE

TAG	MODEL	SIZE	SERVING	CFM	S.P. (IN. W.G.)	TYPE	DRIVE	FAN RPM	BHP	HP (WATTS)	INTERLOCK WITH	ELECTRICAL			ACCESSORIES
												VOLTS	PHASE	HZ	
EF-1	BSQ	SQ-85-VG	RESTROOM	300	0.625	INLINE	DIRECT	1725	0.08	1/6	LIGHT	120	1	60	ALL
EF-2	BSQ	SQ-85-VG	RESTROOM	225	0.625	INLINE	DIRECT	1725	0.08	1/6	LIGHT	120	1	60	ALL

- NOTES:  
 1. SELECTIONS BASED ON GREENHECK OR APPROVED EQUIVALENT BY COOK.
- ACCESSORIES:  
 1. STARTER & WIRED DISCONNECT SWITCH.  
 2. GRAVITY DAMPER.  
 3. ECM MOTOR.  
 4. INSULATED HOUSING.  
 5. MOTOR COVER.  
 6. INLET & OUTLET FLANGES.  
 7. MOUNTING KIT W/ISOLATORS.

### GRILLE AND DIFFUSER SCHEDULE

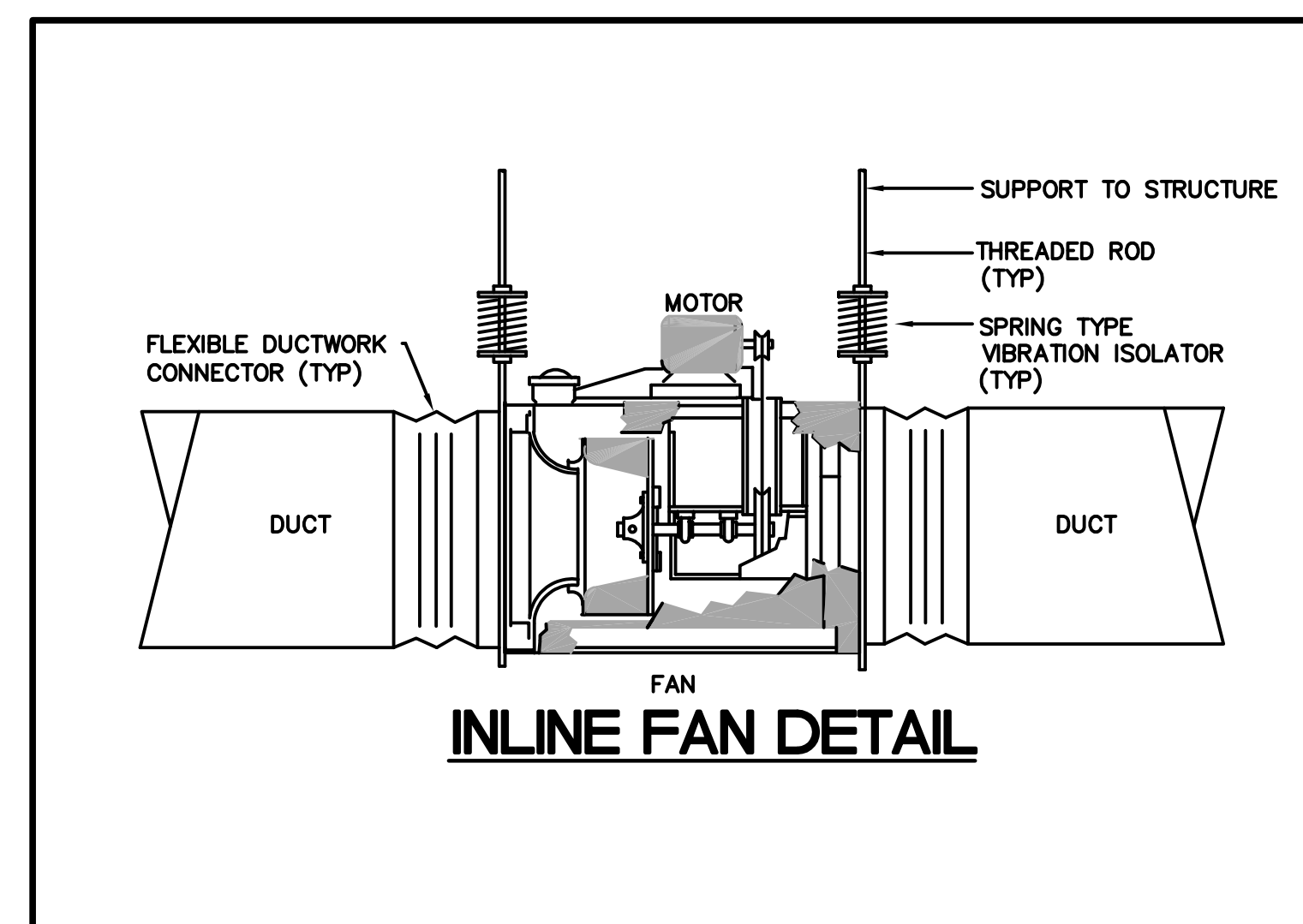
TAG	MODEL	DESCRIPTION	TYPE	COLOR	MATERIAL	ACCESSORIES
A	530	RETURN/EXHAUST GRILLE	CEILING /WALL	BY ARCHITECT	STEEL	ALL

- NOTES:  
 1. SELECTIONS BASED ON PRICE OR EQUIVALENT MANUFACTURES BY KRUEGER.  
 2. SEE PLANS FOR NECK SIZES.  
 3. THROW PATTERNS 4-WAY UNLESS OTHERWISE NOTED.  
 4. COORDINATE MOUNTING TYPE WITH ARCHITECTURAL DRAWINGS.
- ACCESSORIES:  
 1. SQUARE TO ROUND TRANSITIONS.  
 2. ALUMINUM OPPOSED BLADE VOLUME DAMPER.

REVISIONS

MECHANICAL SCHEDULES AND DETAILS  
 BATES WOODS PARK  
 PHASE II BUILDING IMPROVEMENTS  
 NEW LONDON, CONNECTICUT

DESIGNED \_\_\_\_\_ DRAWN \_\_\_\_\_ CHECKED \_\_\_\_\_  
 SCALE \_\_\_\_\_  
 DATE **JANUARY 25, 2013**  
 MMJ PROJECT NO. - \_\_\_\_\_  
 NEW LONDON PROJ. NO. \_\_\_\_\_  
**M-3**  
 SHEET IN SET

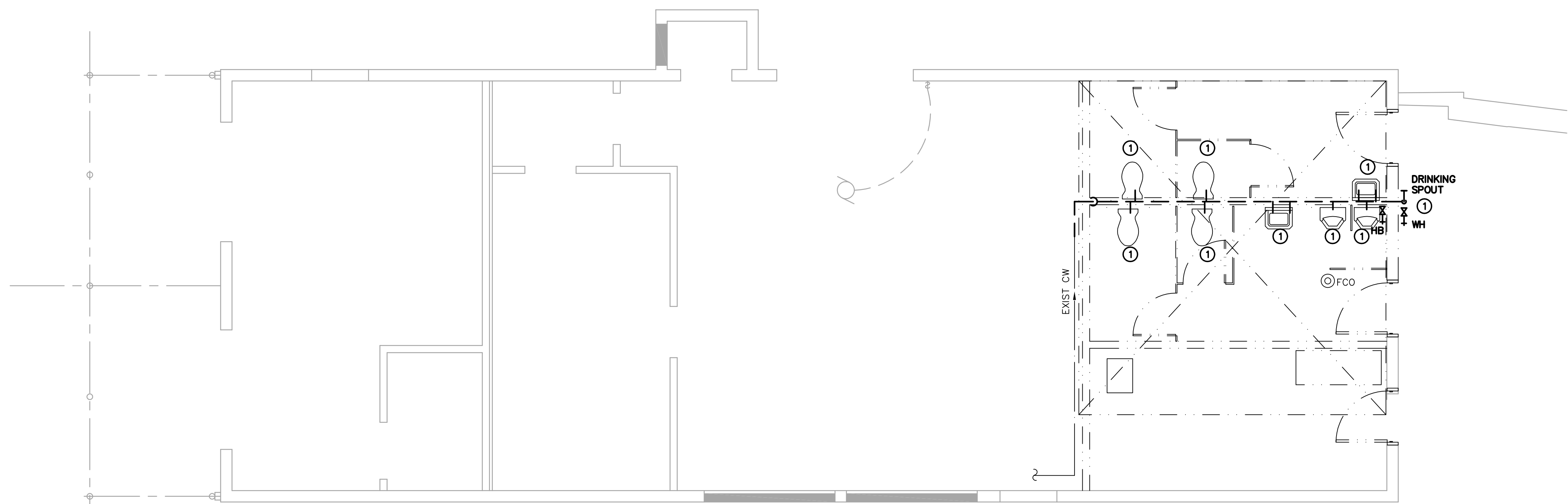


**GENERAL PLUMBING NOTES:**

- BUILDING PLUMBING SYSTEMS TO BE PER INTERNATIONAL PLUMBING CODE (2003 EDITION).
- REFER TO ARCHITECTURAL DRAWINGS FOR STANDARD AND ADA COMPLIANT FIXTURE LOCATIONS, MOUNTING HEIGHTS, ELEVATIONS AND DETAILS.
- DOMESTIC CW&HW BRANCH SUPPLY PIPING SHALL BE 1/2" UNLESS OTHERWISE INDICATED. HW&CW BRANCH PIPING TO EACH INDIVIDUAL FIXTURE TO BE SIZE INDICATED ON PLUMBING FIXTURE SCHEDULE.
- VENT PIPING SHALL BE 1-1/2" UNLESS OTHERWISE INDICATED.
- VENT PIPES CONNECTING TO A HORIZONTAL DRAIN SHALL BE CONNECTED ABOVE CENTER LINE OF THE HORIZONTAL DRAIN PIPE; SUCH VENT CONNECTIONS SHALL RESULT IN VENT PIPING THAT FORMS A 45 DEGREE ANGLE OR GREATER WITH THE HORIZONTAL.
- BURIED DRAINAGE PIPING SHALL BE 3" UNLESS OTHERWISE INDICATED.
- FLOOR DRAINS, FLOOR SINKS, FLOOR CLEANOUTS, ETC. TO HAVE SAME SIZE OUTLET AS DRAINAGE PIPE SERVING.

**PLUMBING SPECIFICATIONS:**

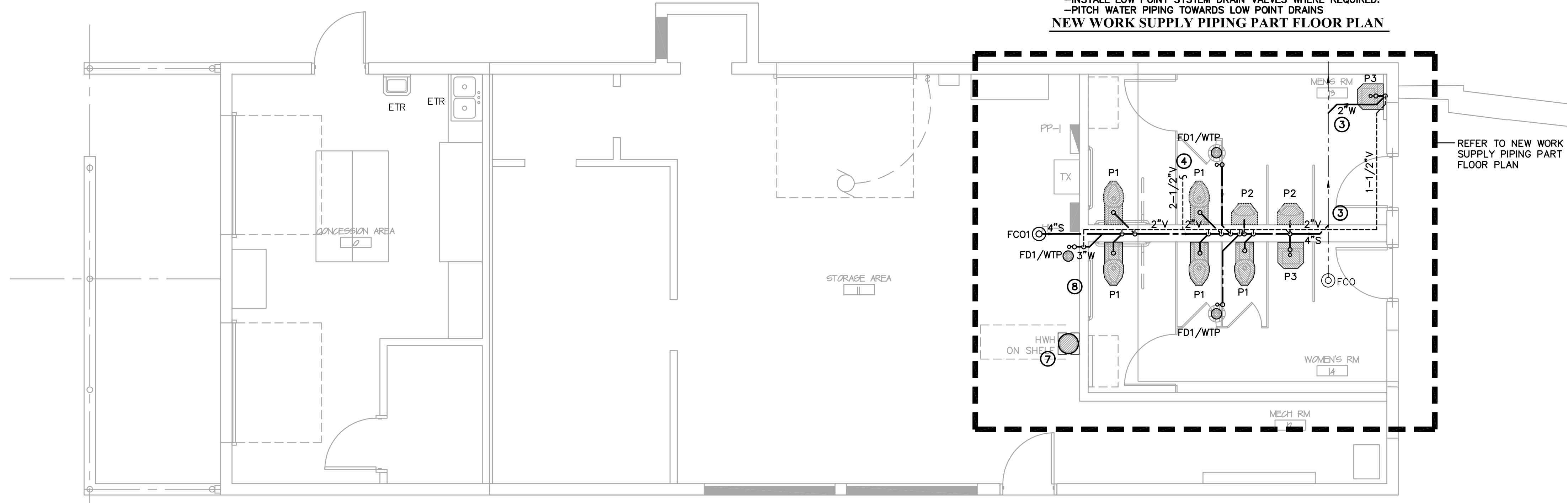
- WASTE, SANITARY AND VENT PIPING BELOW GRADE SHALL BE ASTM D 2665 SOLID WALL SCHEDULE 40 PVC WITH SOLVENT WELDED JOINTS MAY BE SUBSTITUTED FOR ALL SIZES OF SANITARY, WASTE AND VENT PIPING. PVC ALTERNATE PRICING MUST BE APPROVED FOR USE BY OWNER IN WRITING.
- WASTE, SANITARY AND VENT PIPING MAINS, ABOVE GRADE, SHALL BE ASTM D 2665 SOLID WALL SCHEDULE 40 PVC WITH SOLVENT WELDED JOINTS FOR ALL SIZES OF SANITARY, WASTE AND VENT PIPING. PREP, PRIME & PAINT EXPOSED PIPING COVERS W/ TWO COATS OF PAINT. COLOR BY ARCHITECT.
- WATER PIPE ABOVE GRADE SHALL BE TYPE "L" COPPER WITH WROUGHT COPPER SWEAT FITTINGS USING LEAD-FREE SOLDER. VALVES SHALL BE BALL TYPE WITH SCREWED ENDS BY APOLLO #70-100, OR WATTS #B-6000 OR EQUIVALENT. PREP, PRIME & PAINT EXPOSED PIPING / INSULATION COVERS W/ TWO COATS OF PAINT. COLOR BY ARCHITECT.
- PROVIDE HANGERS AND SUPPORTS FOR ALL PIPING SYSTEMS INCLUDING SUPPORT DEVICES PER NFPA 54 & MSS-SP-69. PROVIDE HANGERS AND SUPPORTS SUITABLE FOR SERVICE AND SELECTED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDED MAXIMUM LOADING. SUPPORT FROM BUILDING STRUCTURE. HANGER AND SUPPORT SPACING SHALL BE IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS.
- PROVIDE FIBERGLASS INSULATION W/ ALL SERVICE JACKET & LABELING-INCLUDE FLOW ARROWS ON ALL CW & HW PIPES WITHIN PROJECT AREA. INSULATION THICKNESS PER MOST CURRENT ENERGY CODE, IDENTIFY PIPING IN COMPLIANCE WITH ASME A13.
- AIR ADMITTANCE VALVE "AAV": 4" MAXI-VENT MANUFACTURED BY STUDOR INVENTIVE TECHNOLOGIES.
- PROVIDE VALVES TAGS FOR ISOLATION VALVES & NAME PLATES FOR EQUIPMENT, ETC. WITHIN PROJECT AREA, IDENTIFY VALVES & EQUIPMENT IN COMPLIANCE WITH ASME A13.
- PIPING SHALL BE IDENTIFIED AT LEAST EVERY 20 FT. WITH NAME AND FLOW DIRECTION WITH SNAP-ON PLASTIC PIPE MARKERS. ALL EQUIPMENT SHALL BE IDENTIFIED WITH ENGRAVED PLASTIC MARKERS, CHAIN TO VALVE AND PROVIDE IDENTIFICATION WALL CHART.
- PROVIDE WATER HAMMER ARRESTING AIR CHAMBERS EQUAL TO "PPP", INC. OR ACCEPTABLE EQUIVALENT ON HOT AND COLD WATER PIPING PER PDI-WH 201, AT FIXTURES WHERE QUICK-CLOSING VALVES ARE USED OR AS INDICATED ON PLANS.
- PROVIDE SHUT OFF VALVES AT ALL PLUMBING FIXTURE AND EQUIPMENT LOCATIONS.
- PROVIDE DIELECTRIC COUPLING BETWEEN PIPING OF DIS-SIMILAR MATERIALS.
- PROVIDE AIR VENTS AT HIGH POINTS OF WATER PIPING.
- INSTALL & LOCATE BELOW GRADE DOMESTIC WATER PIPING TO PREVENT FREEZING PER CODE AND PER UTILITY COMPANY REQUIREMENTS.
- ROUTE ALL DOMESTIC WATER PIPING WITHIN HEATED AREAS. DO NOT INSTALL DOMESTIC WATER PIPING IN NON-HEATED AREAS OR IN AREAS SUBJECT TO FREEZING.
- SEAL PIPE PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS OR FLOORS WITH A UL APPROVED FIRE-STOP FITTING CLASSIFIED FOR AN HOURLY RATE EQUAL TO THE RATING CONSTRUCTION. INSULATING MATERIALS SHALL BE COMPATIBLE WITH PIPING SYSTEM BEING INSTALLED. FIRE CAULK TO HAVE FIRE RATING EQUIVALENT OR BETTER THAN WALL FIRE RATING.
- HYDROSTATICALLY TEST DOMESTIC WATER PIPING AT 150 PSI FOR THREE (3) HOURS WITHOUT LEAKS.
- TEST WASTE, SANITARY AND VENT PIPING WITH A 10-FOOT HEAD OF WATER FOR A MINIMUM OF 15 MINUTES WITHOUT LEAKS.
- TEST BURIED OR CONCEALED PIPING BEFORE CLOSING IN OR BACKFILLING.
- DISINFECT POTABLE WATER SYSTEMS PRIOR TO BUILDING OCCUPANCY PER CODES AND LOCAL OFFICIALS REQUIREMENTS. FLUSH SYSTEMS THOROUGHLY WITH POTABLE WATER AFTER DISINFECTION.
- CLEAN INTERIOR OF PIPING; REMOVE DIRT OR DEBRIS AS WORK PROGRESSES.
- PROTECT DRAINS DURING REMAINDER OF CONSTRUCTION PERIOD TO AVOID CLOGGING WITH DIRT AND DEBRIS AND TO PREVENT DAMAGE FROM TRAFFIC AND CONSTRUCTION WORK.
- PLACE PLUGS IN ENDS OF UNCOMPLETED PIPING AT END OF DAY AND WHEN WORK STOPS.
- FURNISH ALL EQUIPMENT MANUALS AND WARRANTIES TO TENANT/BUILDING OWNER AT THE COMPLETION OF THE PROJECT.



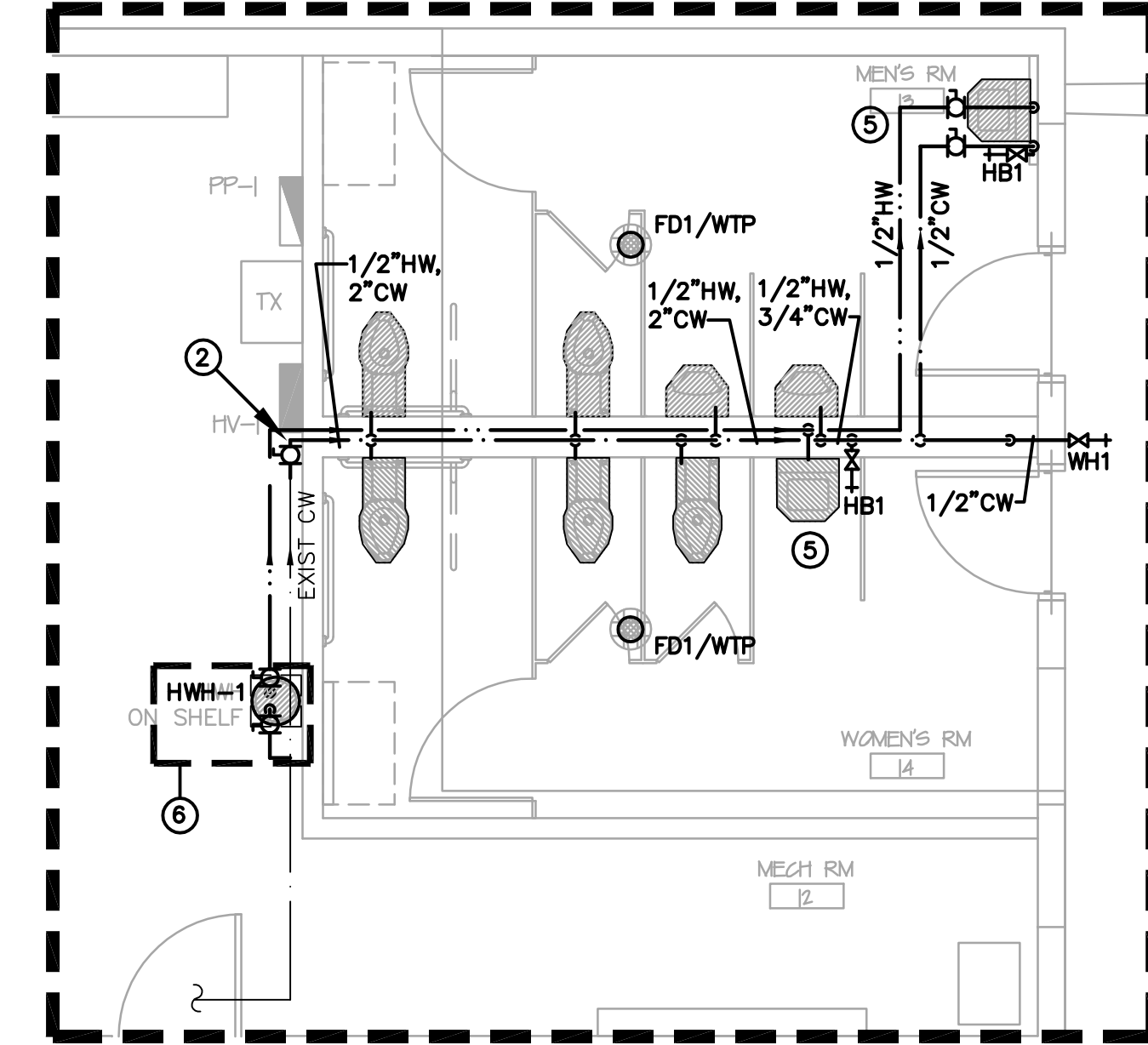
**DEMOLITION FLOOR PLAN**

**DRAWING KEY NOTES:**

- REMOVE EXISTING PLUMBING FIXTURE; INCLUDING ALL ASSOCIATED BRANCH PIPING (DRAINAGE, VENT, HW&CW SUPPLY), SUPPLIES, STOPS, P-TRAP, DRAIN ASSEMBLIES, ESCUTCHEON COVERS, ETC. FIXTURE & PIPING ARE "NOT INTENDED" TO BE REUSED OR RECONFIGURED FOR INSTALLATION OF NEW FIXTURE. MAINTAIN PIPING SERVING FIXTURES/DEVICES INTENDED TO REMAIN. CAP UNUSED PIPING AT NEAREST ACTIVE MAIN IN CONCEALED LOCATION.
- LOCATION OF EXISTING CW PIPING ABOVE CEILING / HIGH IN SPACE / WITHIN WALL CHASE; EXTEND PIPING OF ADEQUATE SIZE AND CAPACITY TO PROPOSED PLUMBING FIXTURE(S) & EQUIPMENT AS INDICATED. FIELD VERIFY PIPE SIZE, ROUTING AND EXACT CONNECTION POINT IN FIELD PRIOR TO INSTALLATION. PROVIDE ACCESS DOOR FOR ACCESSING SHUTOFF/ISOLATION VALVE; COORDINATE ACCESS DOOR LOCATION WITH ARCHITECT.
- LOCATION OF EXISTING WASTE/SANITARY PIPE BELOW FLOOR SLAB; CONNECT PIPING FROM NEW FIXTURE(S) INTO EXISTING AS INDICATED. FIELD VERIFY EXACT LOCATION, INVERT ELEVATION, SIZE OF EXISTING PIPING PRIOR TO INSTALLATION & CONNECTION.  
*Proposed sanitary/waste drainage piping below floor slab:*  
1. Plumbing contractor to scope & trace out existing below floor slab sanitary/waste branch piping intended to be reused; determine exact location, routing, size, invert of existing piping prior to excavation.  
2. Plumbing contractor shall provide owner with scaled as-built drawing of findings; include outline of building, associated rooms, fixtures, invert elevations, pipe sizes & pipe routing. Where the existing drain pipe (previously serving existing sink indicated to be removed) is found to have an invert too shallow, not allowing proposed drainage piping to be installed as indicated on these plans; Contractor shall field verify an alternative drain connection point or method. Contractor shall submit alternative work options to Architect/Engineer for review PRIOR to continuing work for this portion of project.
- LOCATION OF EXISTING VENT PIPE ABOVE CEILING / HIGH IN SPACE; CONNECT PIPING FROM NEW FIXTURE(S) INTO EXISTING AS INDICATED. REPLACE EXISTING PVC VENT PIPE THROUGH ROOF WITH GALVANIZED SCHEDULE 40 PIPE. FIELD VERIFY EXACT LOCATION & SIZE OF EXISTING PIPING PRIOR TO INSTALLATION & CONNECTION.
- PROPOSED LAVATORY TO HAVE SINGLE PIPE TEMPERED HW SUPPLY.
- PROVIDE DOMESTIC HOT WATER HEATER "HWH-1" WALL MOUNTED HIGH IN SPACE. (REFER TO WATER HEATER PIPING DETAIL - HWH1 FOR DEVICES AND PIPING CONFIGURATION).
- PRESSURE RELIEF VALVE & WATER HEATER DRAIN PAN PIPING: ROUTE DOWN TIGHT TO WALL AND TERMINATE ABOVE DRAINAGE RECEPTACLE.
- AIR ADMITTANCE VALVE "AAV" LOCATED ABOVE ACCESSIBLE CEILING & BELOW ROOF; COORDINATE ACCESS DOOR & AAV LOCATION WITH ARCHITECT.



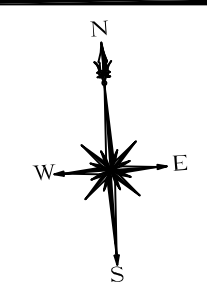
**NEW WORK DRAINAGE & VENT PIPING PART FLOOR PLAN**



**NOTE:**  
1. INSTALL SUPPLY PIPING TO ALLOW ENTIRE SYSTEM TO BE DRAINED FOR WINTERIZATION.  
-INSTALL LOW POINT SYSTEM DRAIN VALVES WHERE REQUIRED.  
-PITCH WATER PIPING TOWARDS LOW POINT DRAINS

**NEW WORK SUPPLY PIPING PART FLOOR PLAN**

REFER TO NEW WORK SUPPLY PIPING PART FLOOR PLAN



**PROGRESSIVE ENGINEERING, INC.**  
28 MAIN STREET, EAST HARTFORD, CT 06118  
TEL: 860.551.1111 FAX: 860.551.1111  
WWW.PEENGIN.COM

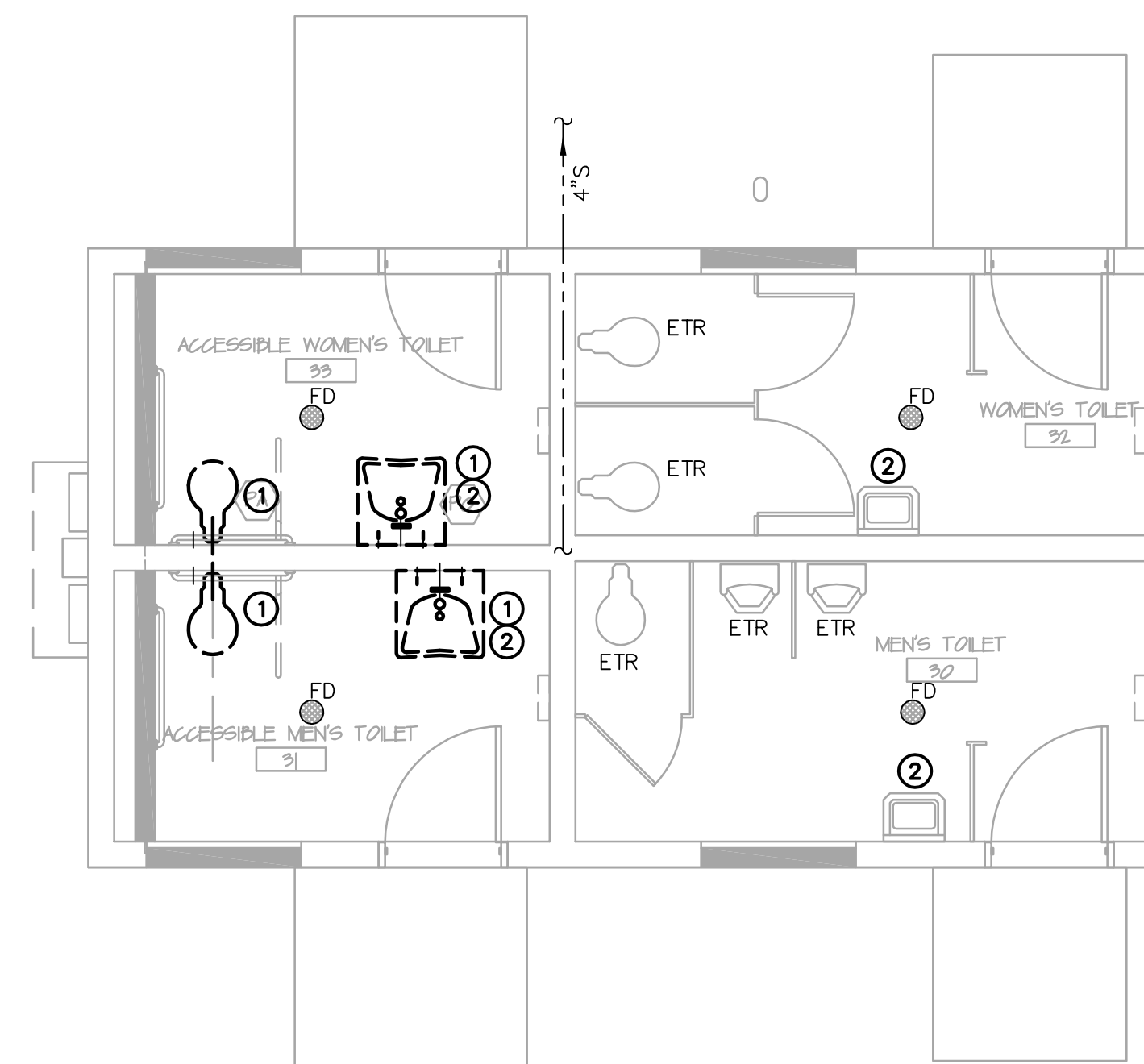
REVISIONS

PLUMBING FLOOR PLAN - CONCESSION BUILDING  
BATES WOODS PARK  
PHASE II BUILDING IMPROVEMENTS  
NEW LONDON, CONNECTICUT

DESIGNED	DRAWN	CHECKED
SCALE	1/4" = 1'-0"	
DATE	JANUARY 25, 2013	
MMI PROJECT NO.	-	
NEW LONDON PROJ. NO.	-	
P-1		
SHEET IN SET:		

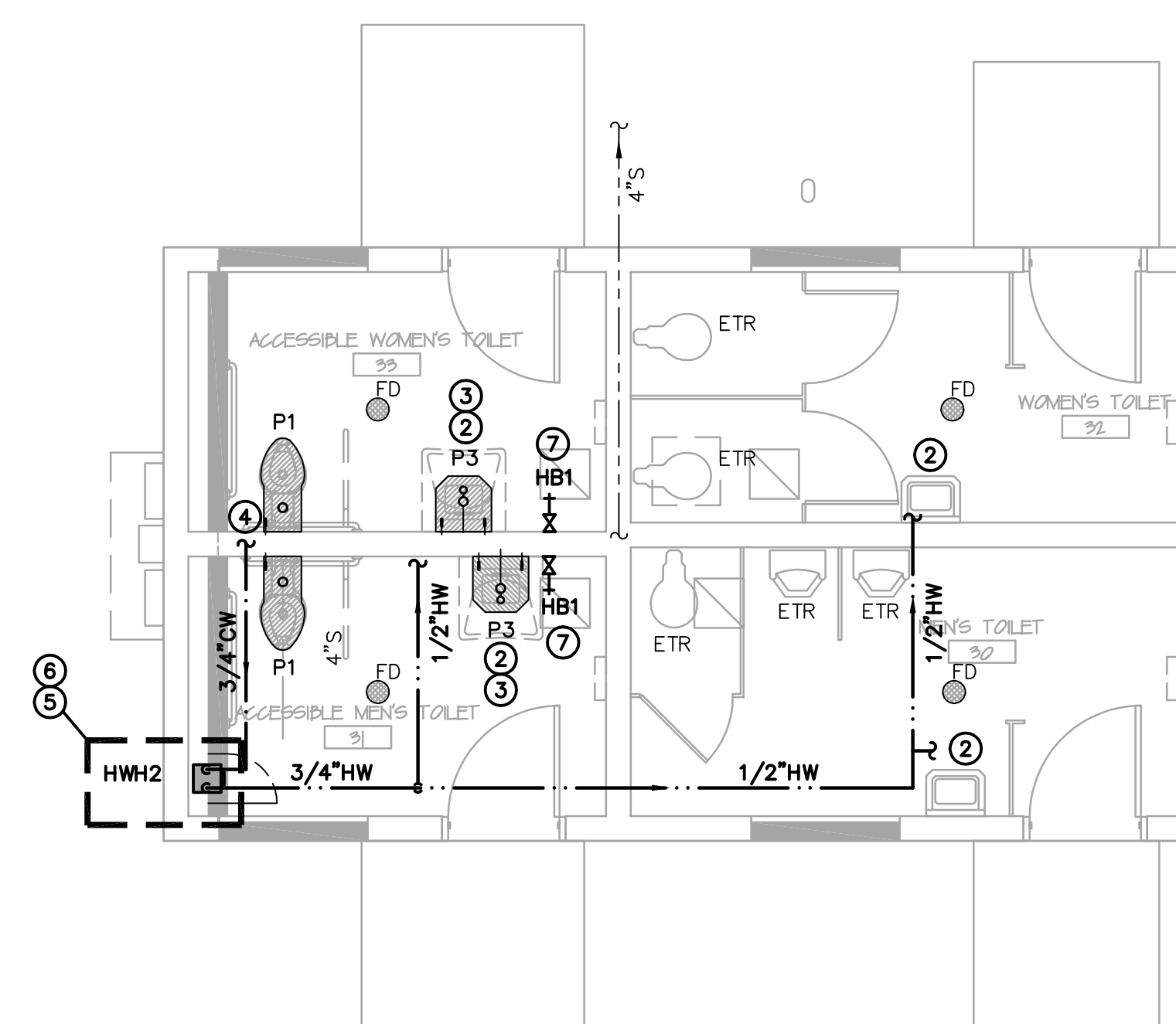
**DRAWING KEY NOTES:**

- ① REMOVE EXISTING PLUMBING FIXTURE, INCLUDING ASSOCIATED SUPPLIES, STOPS, P-TRAP DRAIN ASSEMBLIES AND ESCUTCHEON COVERS;  
 -EXISTING "WATER CLOSET" BRANCH PIPING (DRAINAGE, VENT & CW SUPPLY) "ARE INTENDED" TO BE MAINTAINED FOR INSTALLATION OF NEW FIXTURE IN SAME LOCATION.  
 -EXISTING "LAVATORY" DRAINAGE & VENT BRANCH PIPING "ARE INTENDED" TO BE MAINTAINED FOR INSTALLATION OF NEW FIXTURE IN SAME LOCATION"; -HW&CW SUPPLY PIPING ARE INTENDED TO BE MODIFIED TO ACCOMMODATE PROPOSED SINGLE PIPE TEMPERED HW SYSTEM AS INDICATED.
- ② EXISTING / PROPOSED LAVATORY SUPPLY PIPING TO BE MODIFIED TO ACCOMMODATE SINGLE PIPE TEMPERED HW SYSTEM;  
 -CW SUPPLY: DISCONNECT & CAP CW BRANCH PIPE FEEDING LAVATORY.  
 -HW SUPPLY: DISCONNECT & RECONNECTED PROPOSED HW (TEMPERED) BRANCH PIPE FEEDING LAVATORY AS INDICATED.
- ③ PROPOSED LAVATORY LOCATION: PROVIDE NEW SUPPLIES, STOPS, P-TRAP DRAIN ASSEMBLIES AND ESCUTCHEON COVERS.
- ④ LOCATION OF EXISTING CW PIPING ABOVE CEILING/WITHIN WALL CHASE TO REMAIN; EXTEND PIPING TO PROPOSED EQUIPMENT AS INDICATED. FIELD VERIFY PIPE SIZE, ROUTING AND EXACT CONNECTION POINT IN FIELD PRIOR TO INSTALLATION.
- ⑤ PROVIDE DOMESTIC HOT WATER HEATER "HWH-1"; WALL MOUNTED WITH FERRED OUT AREA. (REFER TO WATER HEATER PIPING DETAIL - HWH-1 FOR DEVICES AND PIPING CONFIGURATION).
- ⑥ PRESSURE RELIEF VALVE & WATER HEATER DRAIN PAN PIPING; TERMINATE PIPES ABOVE FLOOR WITHIN FERRED OUT SPACE FOR WATER HEATER.
- ⑦ CONNECT HB TO WATER PIPING.



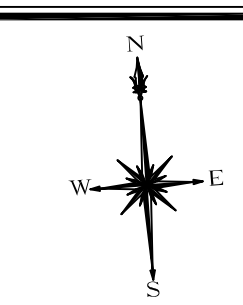
FLOOR PLAN - RESTROOMS

1/4"=1'-0"



FLOOR PLAN - RESTROOMS

1/4"=1'-0"



**PROGRESSIVE**  
 ENGINEERING, INC.  
 28 MAIN STREET, EAST HARTFORD, CT 06118  
 TEL: 860.955.8888 FAX: 860.955.1336  
 REG. P.E. # 1-2024

REVISIONS

PLUMBING FLOOR PLAN - RESTROOM BUILDING  
 BATES WOODS PARK  
 PHASE II BUILDING IMPROVEMENTS  
 NEW LONDON, CONNECTICUT

DESIGNED DRAWN CHECKED

SCALE 1/4" = 1'-0"

DATE JANUARY 25, 2013

MMI PROJECT NO. -

NEW LONDON PROJ. NO.

P-2

SHEET IN SET:

## PLUMBING FIXTURE SCHEDULE

NO.	FIXTURE	MFG.	FIXTURE TYPE & MODEL NO.	TRIM TYPE & MODEL NO.	SUPPLY PIPE MODEL NO.	P-TRAP MODEL NO.	FIXTURE CARRIER & SUPPORT NO.	PIPE SIZES					FIXTURE/TRIM DESCRIPTION & REMARKS
								TRAP	WASTE	VENT	CW	HW	
P1	WATER CLOSET	METCRAFT	4655 HANDICAP TOILET FIXTURE (LOW FLOW 1.60 GPF, FLOOR MOUNTED FLUSH VALVE FIXTURE (16-1/2" RIM HEIGHT))	SLOAN ROYAL 111-1.6 MANUAL FLUSH VALVE (1.60 GPF)	-	-	FLOOR MOUNTED	-	4"	2"	1-1/2"	-	ADA COMPLIANT, FLOOR MOUNTED, FLOOR OUTLET, TOP MOUNTED EXPOSED FLUSH VALVE, LOW FLOW TOILET, HEAVY GAUGE TYPE 304 STAINLESS STEEL SEAMLESS WELDED CONSTRUCTION, VANDAL RESISTANT UNIT & TRAP ENCLOSURE, EXPOSED SURFACES TO HAVE SATIN FINISH; INTEGRAL ELONGATED SEAT TO HAVE BRIGHT MIRROR FINISH. STAINLESS STEEL 2-5/8" TRAPWAY, 1.60 GPF.
P2	URINAL	METCRAFT	7835 HANDICAP URINAL FIXTURE (1.0 GPF)	SLOAN ROYAL 186-1.0 MANUAL FLUSH VALVE (1.0 GPF)	-	-	WALL MOUNTED W/ FIXTURE CARRIER	-	2"	1-1/2"	3/4"	-	ADA COMPLIANT, WALL MOUNTED, BACK OUTLET, TOP MOUNTED EXPOSED FLUSH VALVE, LOW FLOW URINAL, HEAVY GAUGE TYPE 304 STAINLESS STEEL SEAMLESS WELDED CONSTRUCTION, BEEHIVE STYLE STRAINER, VANDAL RESISTANT UNIT & P-TRAP ENCLOSURE, EXPOSED SURFACES TO HAVE SATIN FINISH. STAINLESS STEEL 1-1/2" TRAPWAY, 1.0 GPF.
P3	LAVATORY (WALL MOUNTED)	METCRAFT	5680-A311 HANDICAP LAVATORY FIXTURE W/ SINGLE TEMPERATURE PNEUMATIC VALVE METERING FAUCET	FAUCET INTEGRAL TO FIXTURE	McGUIRE H170-LK	McGUIRE 8902 1-1/4" INLET, 1-1/2" OUTLET P-TRAP W/ CO & McGUIRE 155A GRID DRAIN W/ TAILPIECE	WALL MOUNTED W/ FIXTURE HANGER CARRIER	1-1/4" x 1-1/2"	1-1/2"	1-1/2"	-	1/2" (single pipe temp rated hw supply)	ADA COMPLIANT 18" x 18" WALL HUNG RECTANGULAR LAVATORY, HEAVY GAUGE TYPE 304 STAINLESS STEEL SEAMLESS WELDED CONSTRUCTION, W/ INTEGRAL BACKSPLASH, SINGLE TEMPERATURE PNEUMATIC VALVE METERING TYPE FAUCET, FRONT OVERFLOW, SOAP DEPRESSION & DRAIN ASSEMBLY, VANDAL RESISTANT UNIT & P-TRAP ENCLOSURE. EXPOSED SURFACES TO HAVE SATIN FINISH.

- NOTES:**
- REFER TO ARCHITECTURAL DRAWINGS FOR STANDARD AND ADA FIXTURE LOCATIONS, MOUNTING HEIGHTS, ELEVATIONS AND DETAILS.
  - PLUMBING FIXTURE SHALL HAVE CHROME PLATED BRASS SUPPLIES, STOPS, ESCUTCHEONS COVERS, P-TRAP, GRID DRAIN, POP-UP DRAINS W/ PUSH ROD, OFFSET DRAIN, CONTINUOUS DRAIN CONNECTION (FOR DOUBLE OR TRIPLE BOWL FIXTURES), SHOWER/TUB DRAIN & TAILPIECE ASSEMBLIES SHALL BE CHROME PLATED BRASS. (IN LOCATIONS WHERE PIPING IS TO BE COVERED W/ INSULATION BRASS FINISH ONLY MAY BE SUBSTITUTED).
  - GRID STRAINER/BASKET STRAINER & TAILPIECE SHALL BE STAINLESS STEEL WHERE SERVING STAINLESS STEEL FIXTURES.
  - PROVIDE FIXTURES WITH COMPATIBLE CARRIER AND/OR FACTORY FURNISHED WALL HANGER/SUPPORT BRACKET ASSEMBLY UNLESS OTHERWISE INDICATED.
  - PLUMBING FIXTURE - STAINLESS STEEL MATERIAL EQUIVALENT MANUFACTURER'S: ACORN, METCRAFT.
  - FLUSH VALVE EQUIVALENT MANUFACTURER'S: SLOAN, HYDROTEK, KOHLER, TOTO.
  - PLUMBING FIXTURE CARRIER EQUIVALENT MANUFACTURER'S: JOSAM, MIFAB, WADE, WATTS.
  - SUPPLIES, STOPS, ESCUTCHEONS COVERS, P-TRAP, GRID DRAIN, POP-UP DRAINS W/ PUSH ROD, OFFSET DRAIN, CONTINUOUS DRAIN CONNECTION (FOR DOUBLE OR TRIPLE BOWL FIXTURES), SHOWER/TUB DRAIN & TAILPIECE ASSEMBLIES EQUIVALENT MANUFACTURER'S: McGUIRE, T&S BRASS, BRASS CRAFT, WATTS.

## WATER HEATER SCHEDULE

ITEM	MANUFACTURER	MODEL	TYPE	GALLONS	ELEMENTS	KW	FLA	VOLTAGE	PHASE	REMARKS
HWH1&2	BRADFORD WHITE	M-1-PC2U6SS (HEATER SIZE: 9"W X 10-1/4"L X 13" H)	ELECTRIC	2	1	1.5 *	20 AMP CIRCUIT REQUIRED	120 (3-PRONG PLUG IN)	1	7.0 GPH RECOVERY AT 90°F RISE

\* NON-SIMULTANEOUS SINGLE ELEMENT OPERATION

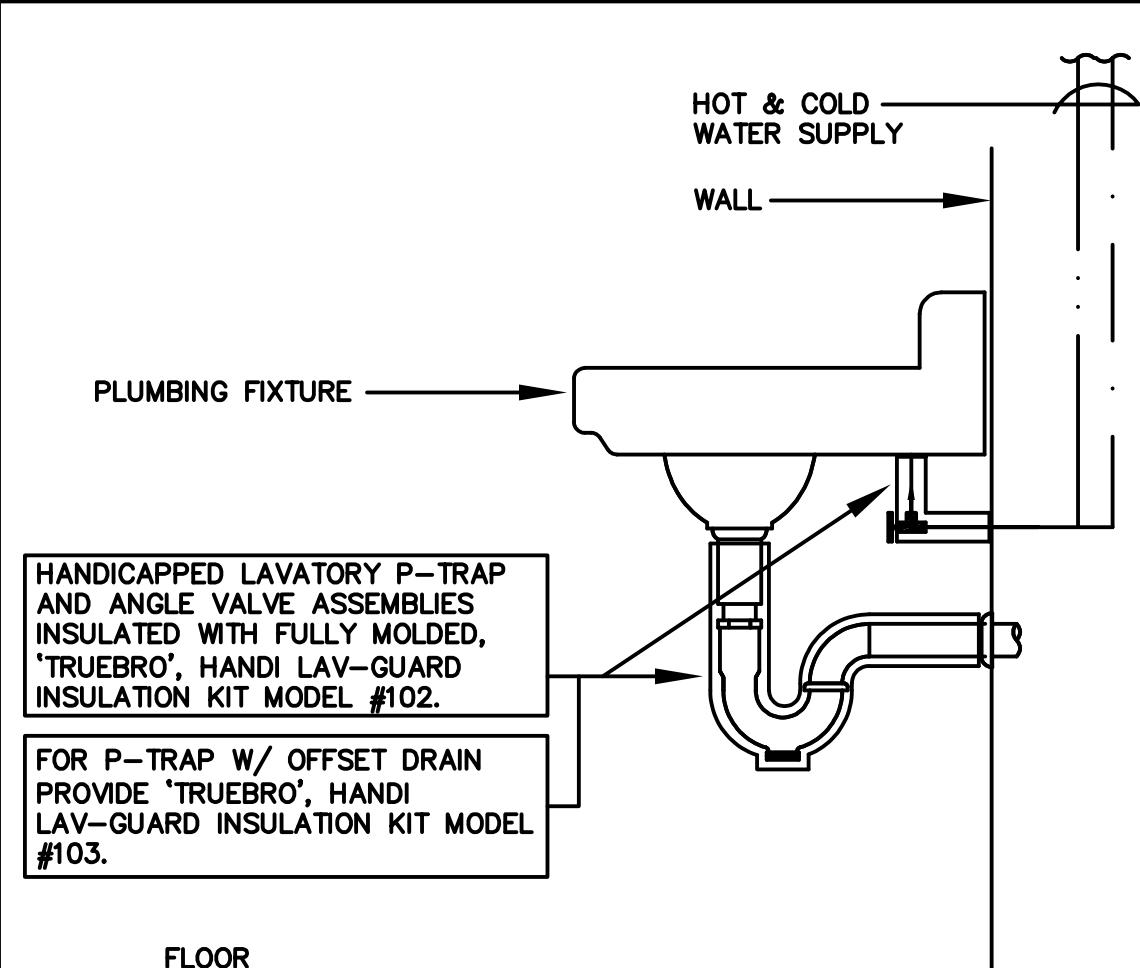
- NOTES:**
- UNIT SELECTION BASED ON BRADFORD WHITE; EQUIVALENT MANUFACTURERS BY A.O.SMITH, STATE, RHEEM.
  - PROVIDE ALUMINUM DRAIN PAN AS MANUFACTURED BY OATEY.
  - PROVIDE AUTOMATIC WATER DETECTOR/SAFETY SHUT-OFF SYSTEM WATTS: FLOODSAFE WDS-E220; EQUIVALENT MANUFACTURERS BY FIRSTSMART SENSOR (FLOODSTOPPER SYSTEM) OR TACO (WAGS). COORDINATE ELECTRICAL POWER REQUIREMENTS WITH ELECTRICIAN.
  - REFER TO WATER HEATER DETAIL FOR HW OUTLET TEMPERATURES, PIPING ARRANGEMENT & SPECIALTIES.
- ACCESSORIES:**
- COMBINATION TEMPERATURE/PRESSURE GAUGE.
- STANDARD FEATURES:**
- NON-CFC FOAM INSULATION W/ STEEL BAKED ON ENAMELED OUTER JACKET
  - FULLY AUTOMATIC ADJUSTABLE TEMPERATURE CONTROL
  - DIRECT HEAT TRANSFER W/ IMMERSERED ELEMENT
  - DEEP DRAWN STEEL TANK
  - PROTECTIVE MAGNESIUM ANODE ROD
  - NON-FERROUS OUTER JACKET
  - T&P RELIEF VALVE
  - U.L. LISTED
  - FACTORY INSTALLED SENSITIVE MANUAL RESET ENERGY CUT-OFF FOR SAFETY TO PREVENT OVERHEATING
  - FACTORY INSTALLED HEAT TRAPS (FOR NON-RECIRCULATED HW SYSTEMS)
  - SIX YEAR LIMITED WARRANTY STEEL TANK AND ON PARTS

## PLUMBING SYMBOL TABLE

AFF	ABOVE FINISHED FLOOR		UTILITY METER (GAS or WATER)
BFF	BELOW FINISHED FLOOR		BALL VALVE
CW	DOMESTIC COLD WATER		HOSE BIB
ETR	EXISTING TO REMAIN		WALL HYDRANT
F.F.	FINISHED FLOOR		TEE DOWN
HWH	DOMESTIC HOT WATER HEATER		PIPE UP
HW	DOMESTIC HOT WATER		PIPE DN
IE	INVERT ELEVATION		CAPPED PIPE
IW	INDIRECT WASTE		DIRECTION OF FLOW
S	SANITARY		CLEAN OUT
V	VENT		WALL CLEAN OUT
VTR	VENT THROUGH ROOF		FLOOR CLEAN OUT
W	WASTE		P-TRAP
			FLOOR DRAIN

## PLUMBING LEGEND

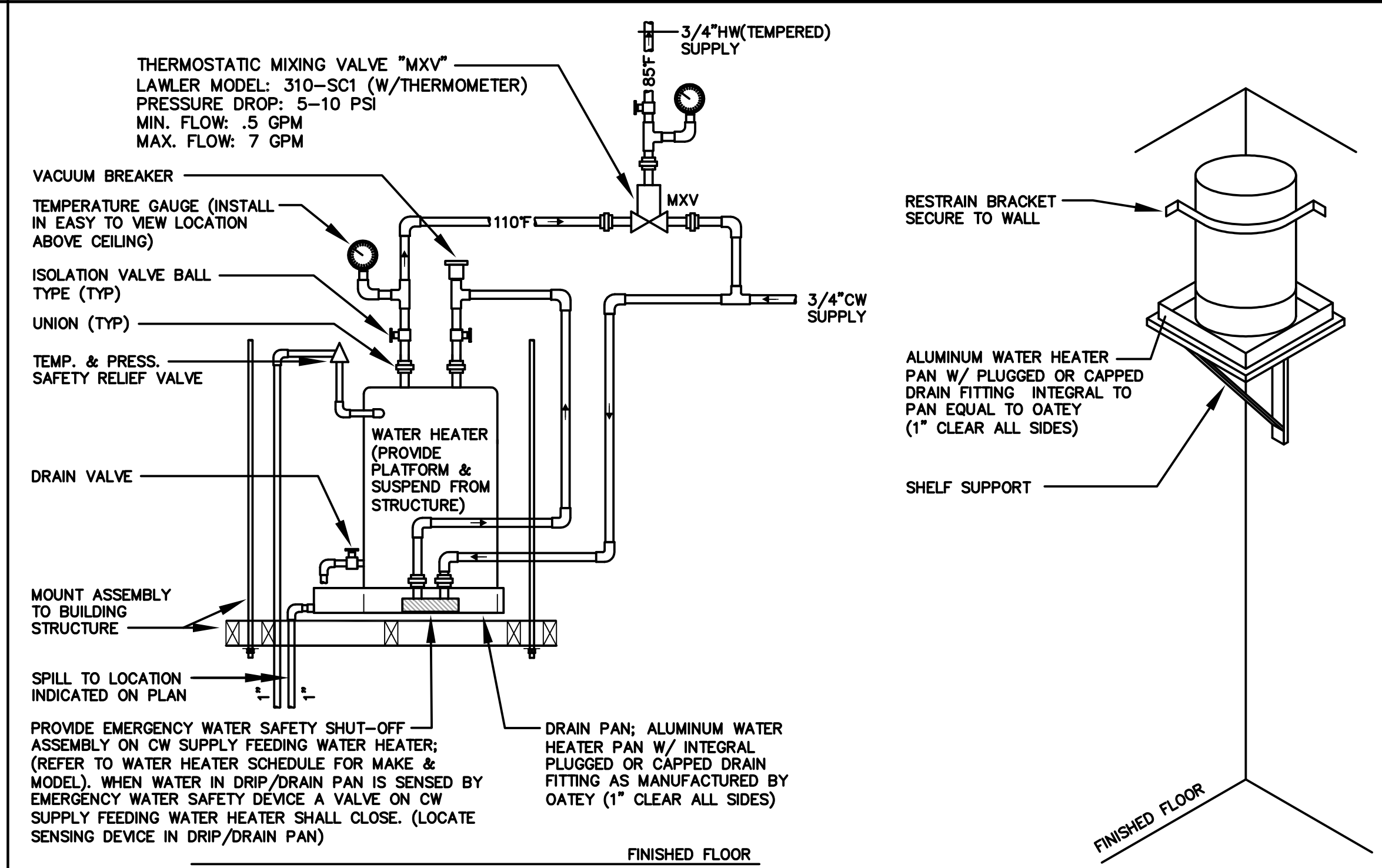
	EXISTING TO REMAIN
	TO BE REMOVED
	UNDERGROUND SANITARY, WASTE
	ABOVE GROUND SANITARY, WASTE
	VENT
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER - (TEMPERED APPROX. 85 DEG)



- NOTE:**
- PROVIDE CORRECT/FORM FITTING INSULATION COVERS FOR ALL EXPOSED SUPPLY & DRAINAGE PIPING SERVING ADA COMPLIANT FIXTURE (INCLUDING OFFSET DRAINS, MULTIPLE DRAINS W/ CENTER-END OUTLETS, EXTENSION COVERS, ETC.; WHERE INSTALLATIONS DIFFER FROM WHAT IS SHOWN ON THIS DETAIL; COORDINATE ADA COMPLIANT INSULATION COVERS WITH 'TRUEBRO' CORPORATION.

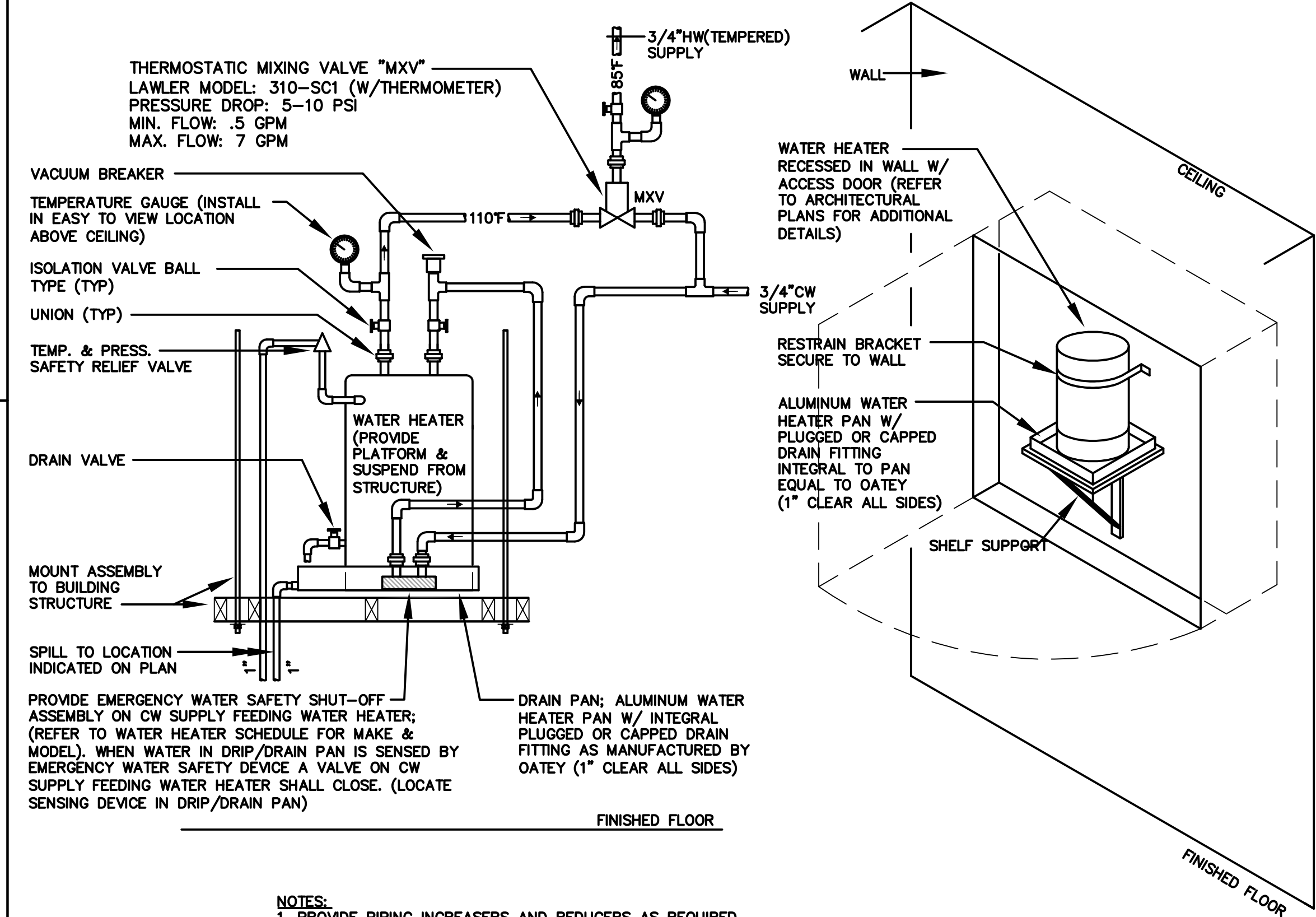
## HANDICAP LAVATORY PIPING DETAIL

## WATER HEATER PIPING DETAIL - HWH-1



- NOTES:**
- PROVIDE PIPING INCREASERS AND REDUCERS AS REQUIRED.
  - INSTALL MIXING VALVE IN ACCESSIBLE LOCATION FROM FLOOR LEVEL.
  - PROVIDE EMERGENCY WATER SAFETY SHUT-OFF VALVE ON CW SUPPLY FEEDING DOMESTIC HOT WATER HEATER (REFER TO WATER HEATER SCHEDULE FOR MAKE & MODEL).
  - PROVIDE HEAT TRAP ON BOTH INLET & OUTLET PIPING OF NON-CIRCULATED DOMESTIC HOT WATER STORAGE SYSTEMS PER ENERGY CODE.
  - PROVIDE DIELECTRIC FITTING FOR DISSIMILAR PIPING MATERIAL CONNECTIONS.

## WATER HEATER PIPING DETAIL - HWH-2



- NOTES:**
- PROVIDE PIPING INCREASERS AND REDUCERS AS REQUIRED.
  - INSTALL MIXING VALVE IN ACCESSIBLE LOCATION FROM FLOOR LEVEL.
  - PROVIDE EMERGENCY WATER SAFETY SHUT-OFF VALVE ON CW SUPPLY FEEDING DOMESTIC HOT WATER HEATER (REFER TO WATER HEATER SCHEDULE FOR MAKE & MODEL).
  - PROVIDE HEAT TRAP ON BOTH INLET & OUTLET PIPING OF NON-CIRCULATED DOMESTIC HOT WATER STORAGE SYSTEMS PER ENERGY CODE.
  - PROVIDE DIELECTRIC FITTING FOR DISSIMILAR PIPING MATERIAL CONNECTIONS.

## WATER HEATER PIPING DETAIL - HWH-2

28 MAIN STREET, EAST HARTFORD, CT 06118  
TEL: 860.555.1234 FAX: 860.555.1234

REVISIONS

NO.	DATE	DESCRIPTION

PLUMBING DETAILS & SCHEDULES  
BATES WOODS PARK  
PHASE II BUILDING IMPROVEMENTS  
NEW LONDON, CONNECTICUT

DESIGNED	DRAWN	CHECKED
SCALE	N.T.S.	
DATE <b>JANUARY 25, 2019</b>		
MMI PROJECT NO. -		
NEW LONDON PROJ. NO.		
P-3		
SHEET IN SET:		