

# SHEPARDSON COMMUNITY CENTER

## ADA COMPLIANCE

1172 Whittemore Road  
Middlebury, Connecticut

April 22, 2020

ARCHITECT

MECH - ELEC ENGINEER

AMES &  
WHITAKER

MEMBER OF THE AMERICAN INSTITUTE OF ARCHITECTS



Architects

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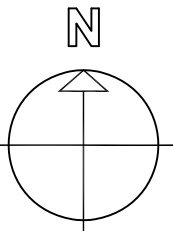
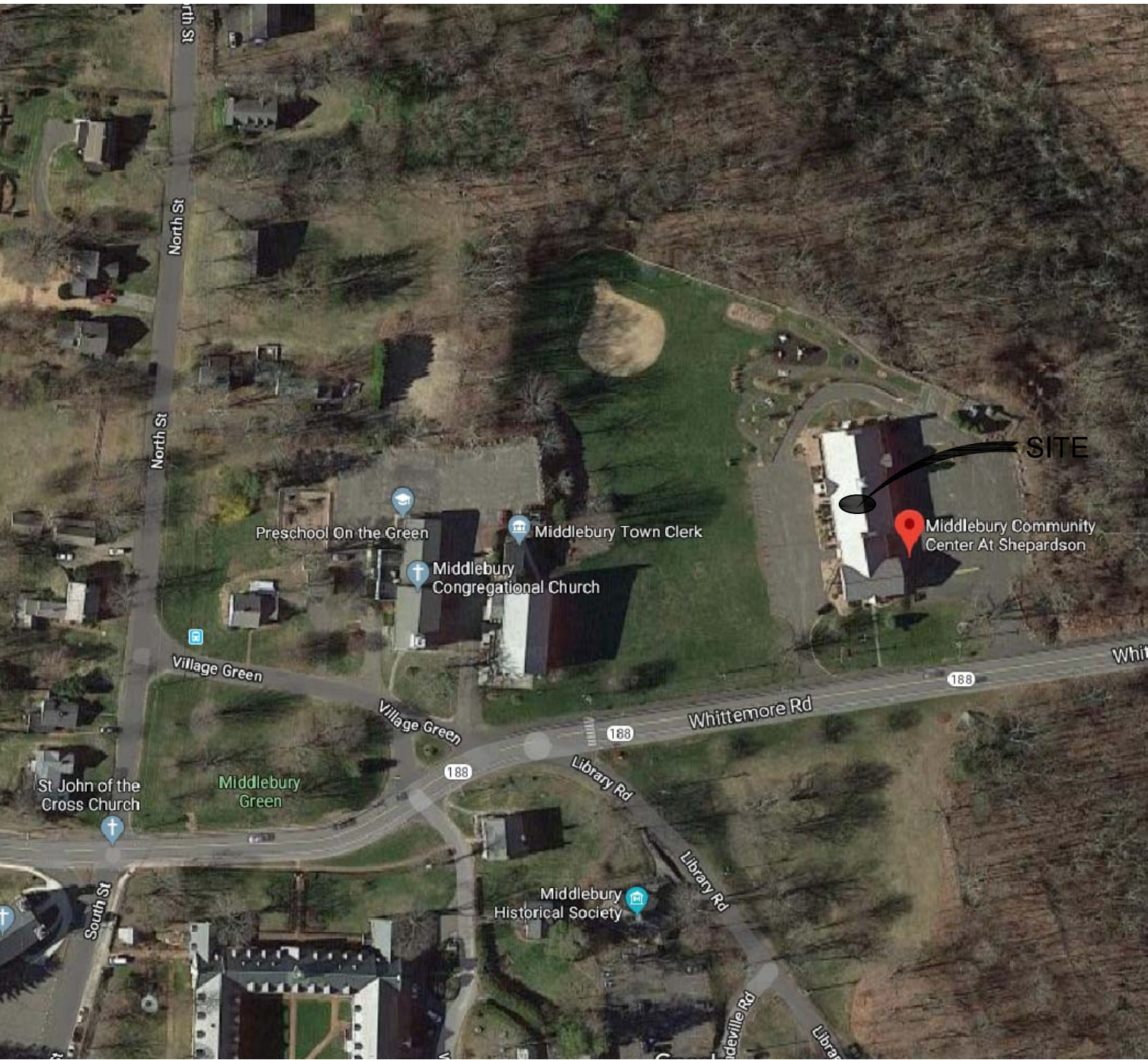


KUEGLER ASSOCIATES

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Abbreviations

- A.C.T.

ACOUSTICAL TILE
- A.R.

ABUSE RESISTANT
- ALUM.

ALUMINUM
- BIT. WALK

BITUMINOUS WALK
- CER.

CERAMIC
- CJ

CONTROL JOINT
- CONC.

CONCRETE
- CONT.

CONTINUOUS
- CPT

CARPET
- DIA.

DIAMETER
- DIM.

DIMENSION
- DS

DOWN SPOUT
- DWG.

DRAWING
- ELECT.

ELECTRIC
- EQ.

EQUAL
- E.S.

EACH SIDE
- EXIST.

EXISTING
- EXT.

EXTERIOR
- F.C.

FIBER CEMENT
- F.D.

FLOOR DRAIN
- FEC

FIRE EXTINGUISHER CABINET
- FIN.

FINISH
- F.R.

FIRE RESISTANT
- GA.

GAUGE
- GALV.

GALVANIZED
- GYP. BD.

GYPSON BOARD
- H.M.

HOLLOW METAL
- HGT.

HEIGHT
- INS.

INSULATED
- J.T.

JOINT
- LAM.

LAMINATE
- M.R.

MOISTURE RESISTANT
- MAX.

MAXIMUM
- MEAS.

MEASURE
- MECH.

MECHANICAL
- MET.

METAL
- MIN.

MINIMUM
- N.I.C.

NOT IN CONTRACT
- O.C.

ON CENTER
- O.D.

OUTSIDE DIAMETER
- PLAS.

PLASTIC
- POLY.

POLYURETHANE
- PR.

PAIR
- PR. TRTD.

PRESSURE TREATED
- PTD.

PAINTED
- R.L.

RAIN LEADER
- REINF.

REINFORCED
- RES.

RESILIENT
- R.O.

ROUGH OPENING
- SIM.

SIMILAR
- STD.

STANDARD
- TEMP.

TEMPORARY
- TYP.

TYPICAL
- U.N.O.

UNLESS NOTED OTHERWISE
- V.B.

VAPOR BARRIER
- V.C.T.

VINYL COMPOSITE TILE
- WWM

WELDED WIRE MESH

Symbols

- 1

PLAN TITLE

SCALE

TITLE MARK
- #

SHEET

SECTION MARK
- #

SHEET

DETAIL MARK
- N

NORTH ARROW
- A

#

B

C

SHEET

INTERIOR ELEVATION  
MULTIPLE VIEWS
- ROOM-NAME

ROOM#

ROOM IDENTIFIER
- #

DOOR IDENTIFIER
- #

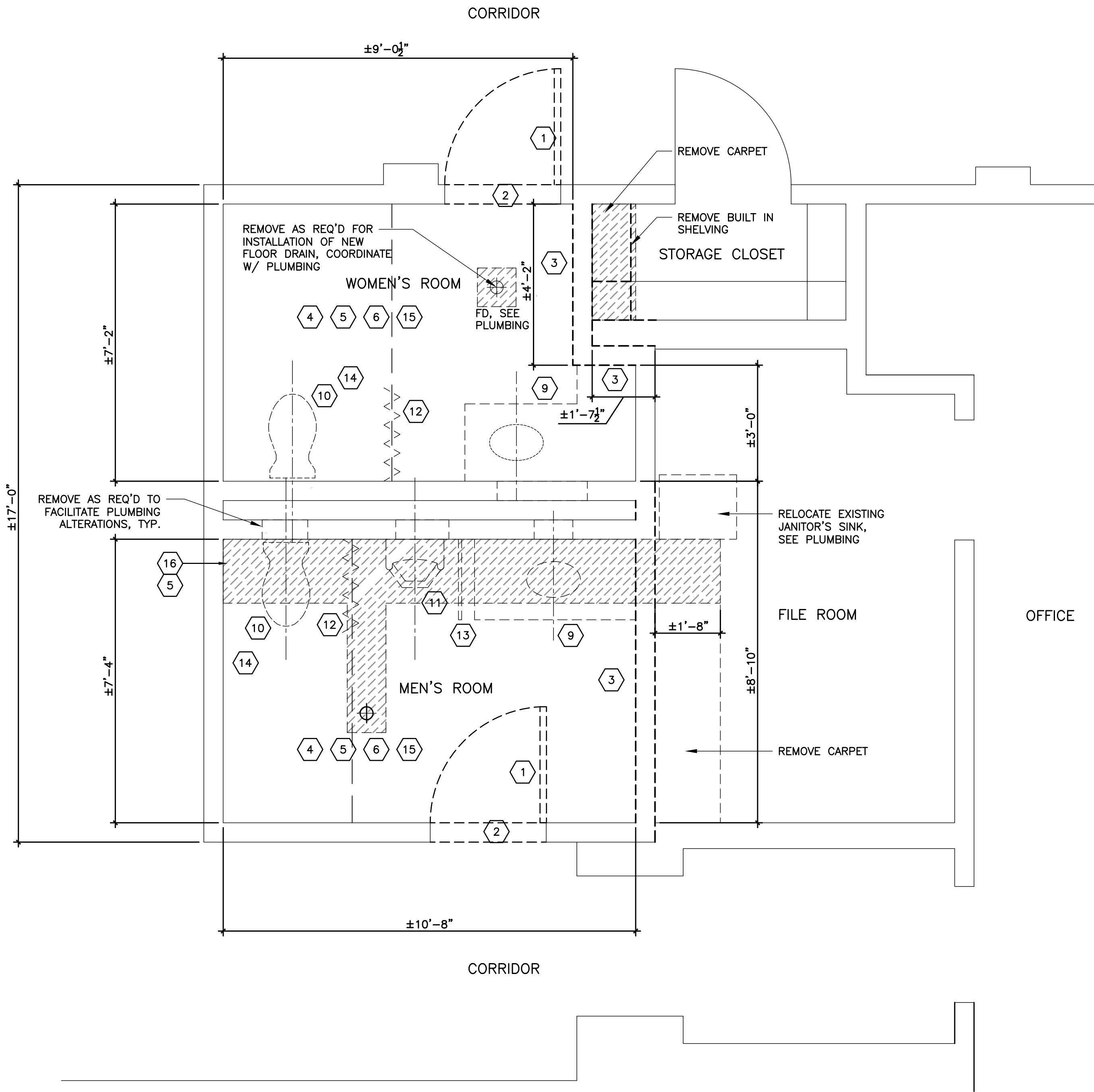
KEYNOTE INDICATOR
- 1

WALL TYPE INDICATOR

Code Information

- Use Classification  
A-3 (Community Halls)
- Construction Type IIIB  
(Non-Sprinklered)  
Allowable Area 9,500 sf  
Actual ±6,000 sf
- Project is to increase accessibility to existing toilet rooms.
- Alteration Level 1
- No decrease in plumbing fixtures.
- Automatic door operators added at upper level toilet rooms.





- DEMO KEY NOTES**
- 1 REMOVE DOOR AND FRAME.
  - 2 REMOVE THRESHOLD.
  - 3 REMOVE WALL.
  - 4 EXISTING CERAMIC TILE WAINSCOT TO REMAIN.
  - 5 REMOVE CERAMIC TILE FLOOR.
  - 6 REMOVE ACT TILES AND GRID.
  - 7 REMOVE ACT TILES, EXISTING GRID TO REMAIN.
  - 8 REMOVE COUNTER.
  - 9 REMOVE LAV AND COUNTER. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
  - 10 REMOVE TOILET. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
  - 11 REMOVE URINAL. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
  - 12 REMOVE SHOWER CURTAIN AND ROD.
  - 13 REMOVE PARTITIONS AND ASSOCIATED HARDWARE.
  - 14 REMOVE ALL HANDICAPPED ACCESSIBLE GRAB BARS.
  - 15 REMOVE ALL DISPENSERS.
  - 16 REMOVE SLAB - COORDINATE EXTENT W/ PLUMBING

**HAZARDOUS MATERIALS NOTE:**

IN THE EVENT THAT MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY THE ARCHITECT AND THE OWNER. HAZARDOUS MATERIALS WILL BE REMOVED BY THE OWNER UNDER A SEPARATE CONTRACT.

1 LOWER LEVEL TOILET ROOMS DEMO PLAN

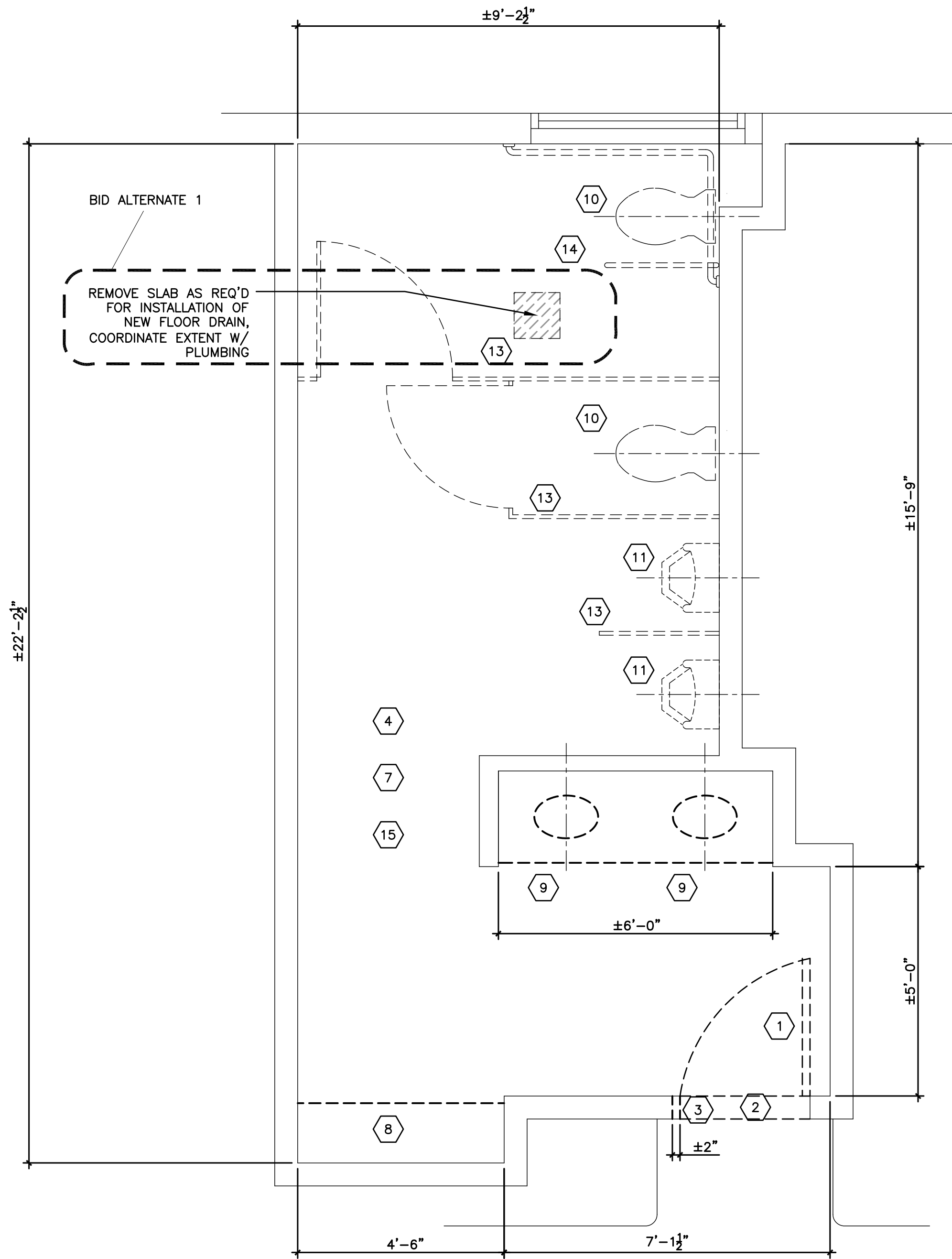
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**SHEPARDSON COMMUNITY CENTER  
ADA COMPLIANCE  
MIDDLEBURY, CONNECTICUT  
LOWER LEVEL TOILET ROOMS DEMO PLANS**

**AMES & WHITAKER** Architects  
MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS  
31 Liberty Street, Suite 200 Southington, Connecticut 06489 Fax (860) 621-8944 Fax (860) 621-0957

PROJECT NO. **2019.04**  
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SCALE: AS NOTED  
DATE: 04-22-2020





1 UPPER LEVEL MEN'S ROOM DEMO PLAN

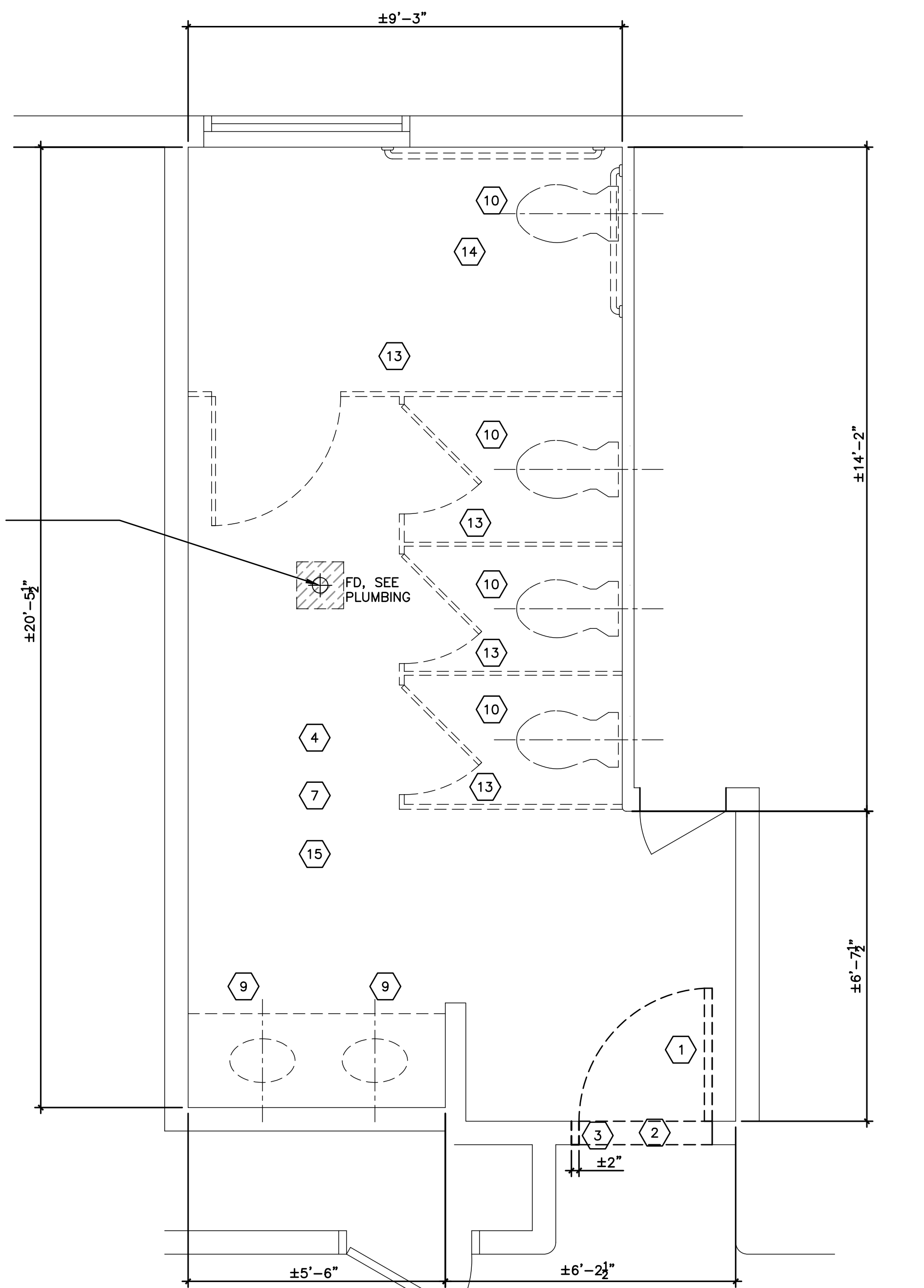
DEMO KEY NOTES

- 1 REMOVE DOOR AND FRAME.
- 2 REMOVE THRESHOLD.
- 3 REMOVE WALL. COORDINATE WITH NEW DOOR FRAME R.O.
- 4 EXISTING CERAMIC TILE WAINSCOT TO REMAIN.
- 5 REMOVE CERAMIC TILE FLOOR.
- 6 REMOVE ACT TILES AND GRID.
- 7 REMOVE ACT TILES. EXISTING GRID TO REMAIN.
- 8 REMOVE COUNTER.
- 9 REMOVE LAV AND COUNTER. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 10 REMOVE TOILET. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 11 REMOVE URINAL. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
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- 13 REMOVE PARTITIONS AND ASSOCIATED HARDWARE.
- 14 REMOVE ALL HANDICAPPED ACCESSIBLE GRAB BARS.
- 15 REMOVE ALL DISPENSERS.

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REMOVE SLAB AS REQ'D FOR INSTALLATION OF NEW FLOOR DRAIN, COORDINATE EXTENT W/ PLUMBING



2 UPPER LEVEL WOMEN'S ROOM DEMO PLAN

SHEPARDSON COMMUNITY CENTER  
ADA COMPLIANCE  
MIDDLEBURY, CONNECTICUT  
UPPER LEVEL TOILET ROOMS DEMO PLANS

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A.2



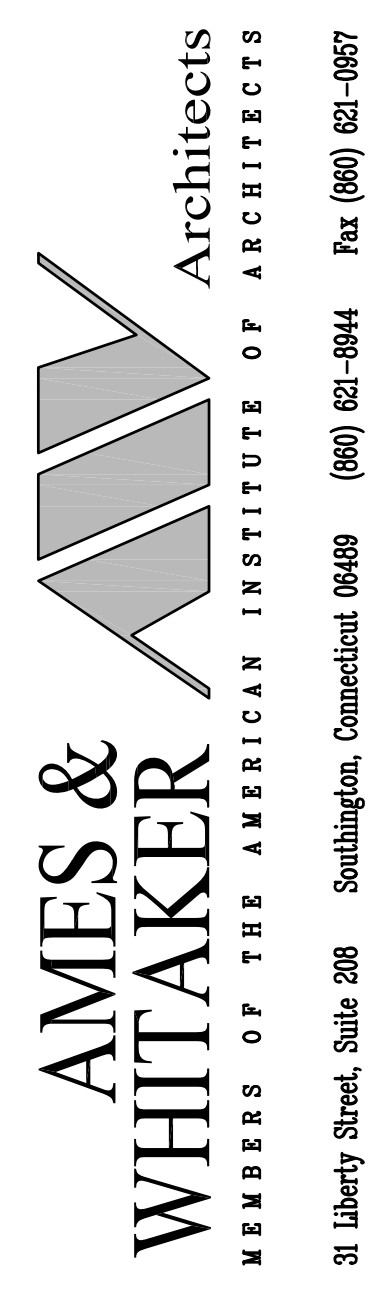






- TOILET ACCESSORY KEYNOTES
- |   |   |
|---|---|
| A | GRAB BARS- 36" & 42" LENGTHS<br>MOUNTING HEIGHTS AT 33" AND 36"<br>TO TOP OF GRIPPING SURFACE                     |
| B | WALL MOUNTED SOAP DISPENSER<br>MOUNTING HEIGHT - 42" TO CENTER OF NOZZLE,<br>44" AFF TO CONTROLS MAX.             |
| C | TRASH RECEPTACLE<br>FREE STANDING - BY OWNER  |
| D | VERTICAL GRAB BAR<br>MOUNTING HEIGHT - 40" TO BOTTOM OF GRAB BAR  |
| E | TOILET PAPER DISPENSER<br>MOUNTING HEIGHT - 18" MIN. TO OUTLET OF DISPENSER AFF<br>- 29" TO TOP OF DISPENSER MAX. |
| F | PAPER TOWEL DISPENSER<br>MOUNTING HEIGHT-44" AT CENTER OF DISPENSED<br>AREA; 48" AFF TO CONTROLS MAX.             |
| G | LAVATORY MIRROR<br>MOUNTING HEIGHT - 40" MAX. TO BOTTOM OF MIRROR   |

- SHEPARDSON COMMUNITY CENTER  
ADA COMPLIANCE  
MIDDLEBURY, CONNECTICUT  
UPPER LEVEL TOILET ROOMS NEW**

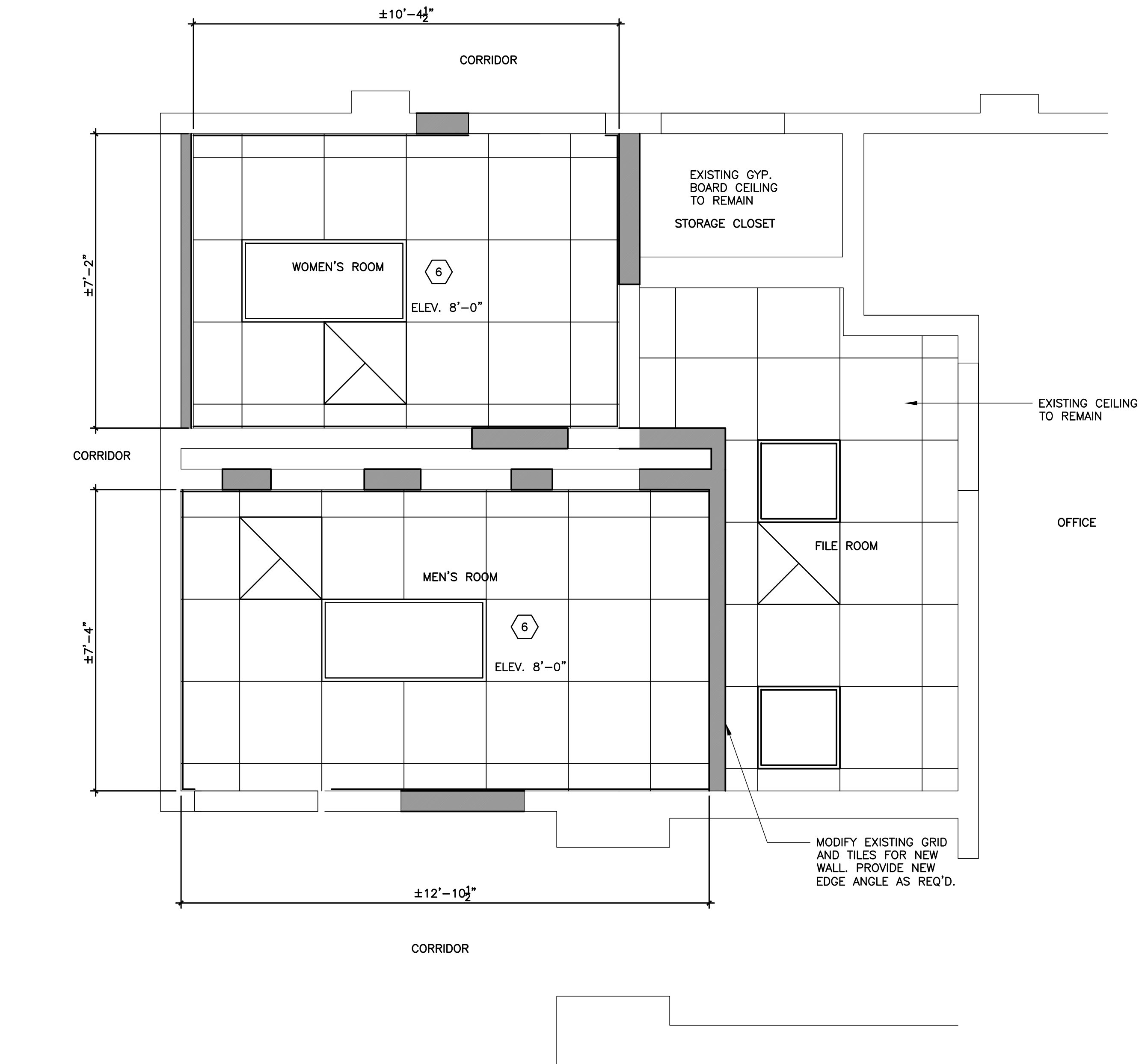


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## A.4





1 LOWER LEVEL TOILET ROOMS REFLECTED CEILING PLANS

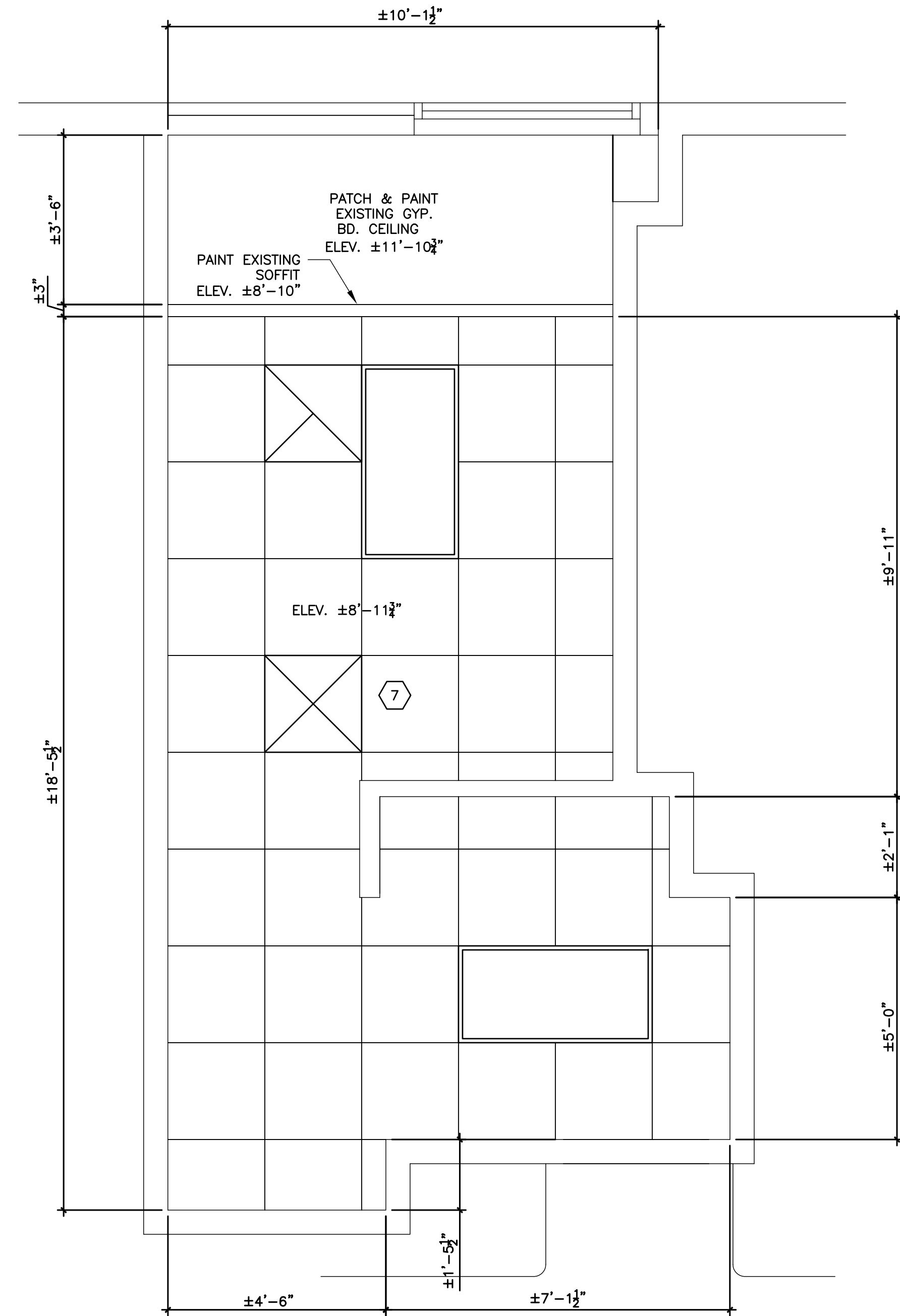
NEW WORK KEY NOTES	
1	PROVIDE 3'-0"x7'-0" WOOD DOOR AND HM FRAME.
2	PROVIDE MARBLE THRESHOLD.
3	PROVIDE METAL STUD WALL.
4	PROVIDE CERAMIC TILE WAINSCOT.
5	PROVIDE 2"x2" CERAMIC TILE FLOOR.
6	PROVIDE 2'x2' ACT CEILING SYSTEM.
7	PROVIDE ACOUSTIC CEILING TILES. EXISTING GRID TO REMAIN.
8	PROVIDE SOLID SURFACE COUNTER.
9	PROVIDE LAV AND SOLID SURFACE COUNTER. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
10	PROVIDE TOILET. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
11	PROVIDE URINAL AND SCREEN. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
12	PROVIDE TOILET PARTITIONS AND ASSOCIATED HARDWARE.

TOILET ACCESSORY KEYNOTES	
A	GRAB BARS— 36" & 42" LENGTHS MOUNTING HEIGHTS AT 33" AND 36" TO TOP OF GRIPPING SURFACE
B	WALL MOUNTED SOAP DISPENSER MOUNTING HEIGHT — 42" TO CENTER OF NOZZLE, 44" AFF TO CONTROLS MAX.
C	TRASH RECEPTACLE FREE STANDING — BY OWNER
D	VERTICAL GRAB BAR MOUNTING HEIGHT — 40" TO BOTTOM OF GRAB BAR
E	TOILET PAPER DISPENSER MOUNTING HEIGHT — 18" MIN. TO OUTLET OF DISPENSER AFF — 29" TO TOP OF DISPENSER MAX.
F	PAPER TOWEL DISPENSER MOUNTING HEIGHT—44" AT CENTER OF DISPENSED AREA; 48" AFF TO CONTROLS MAX.
G	LAVATORY MIRROR MOUNTING HEIGHT — 40" MAX. TO BOTTOM OF MIRROR

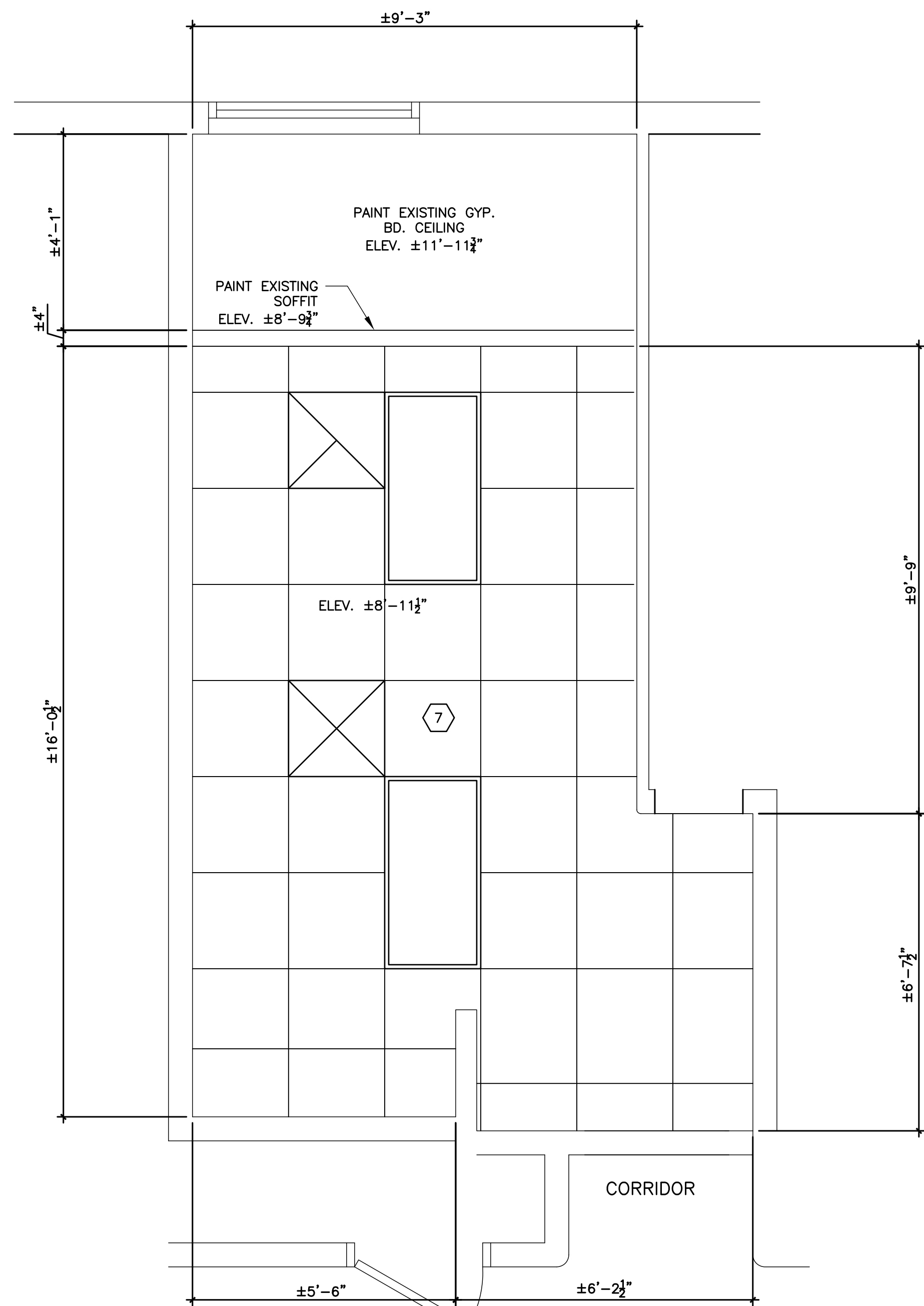
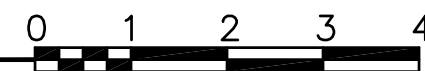
CEILING LEGEND	
	2 x 2 SUSPENDED CEILING
	GYPSUM BOARD CEILING, PAINTED
	DIFFUSERS AND GRILLES, SEE MECH.
	RECESSED FLUORESCENT LUMINAIRE
REFLECTED CEILING NOTES:	
1. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND FIXTURE DESCRIPTIONS OF LIGHTING, AND SUPPLY/ RETURN DIFFUSERS.	

GENERAL NOTES:	
1. VERIFY ALL DIMENSIONS IN THE FIELD.	
2. PATCH AND REPAIR WALLS AS REQUIRED FOR PAINTING AND TILING WHERE PLUMBING FIXTURES, DISPENSERS, PARTITIONS REMOVED.	
3. REPAIR HOLES IN GLAZED TILE. TOUCH UP PAINT TO MATCH BLOCK SURFACE.	





1 UPPER LEVEL MEN'S ROOM REFLECTED CEILING PLAN



2 UPPER LEVEL WOMEN'S ROOM REFLECTED CEILING PLAN



NEW WORK KEY NOTES

- 1 PROVIDE 3'-0"x7'-0" WOOD DOOR AND HM FRAME.
- 2 PROVIDE MARBLE THRESHOLD.
- 3 PROVIDE METAL STUD WALL.
- 4 PROVIDE CERAMIC TILE WAINSCOT.
- 5 PROVIDE 2"x2" CERAMIC TILE FLOOR.
- 6 PROVIDE 2'x2' ACT CEILING SYSTEM.
- 7 PROVIDE ACOUSTIC CEILING TILES. EXISTING GRID TO REMAIN.
- 8 PROVIDE SOLID SURFACE COUNTER.
- 9 PROVIDE LAV AND SOLID SURFACE COUNTER. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 10 PROVIDE TOILET. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 11 PROVIDE URINAL AND SCREEN. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 12 PROVIDE TOILET PARTITIONS AND ASSOCIATED HARDWARE.

TOILET ACCESSORY KEYNOTES

- A GRAB BARS— 36" & 42" LENGTHS  
MOUNTING HEIGHTS AT 33" AND 36"  
TO TOP OF GRIPPING SURFACE
- B WALL MOUNTED SOAP DISPENSER  
MOUNTING HEIGHT — 42" TO CENTER OF NOZZLE,  
44" AFF TO CONTROLS MAX.
- C TRASH RECEPTACLE  
FREE STANDING — BY OWNER
- D VERTICAL GRAB BAR  
MOUNTING HEIGHT — 40" TO BOTTOM OF GRAB BAR
- E TOILET PAPER DISPENSER  
MOUNTING HEIGHT — 18" MIN. TO OUTLET OF DISPENSER AFF  
— 29" TO TOP OF DISPENSER MAX.
- F PAPER TOWEL DISPENSER  
MOUNTING HEIGHT—44" AT CENTER OF DISPENSED  
AREA; 48" AFF TO CONTROLS MAX.
- G LAVATORY MIRROR  
MOUNTING HEIGHT — 40" MAX. TO BOTTOM OF MIRROR

CEILING LEGEND

- 2 x 2 SUSPENDED CEILING
- GYPSUM BOARD CEILING, PAINTED
- DIFFUSERS AND GRILLES, SEE MECH.
- RECESSED FLUORESCENT LUMINAIRE

REFLECTED CEILING NOTES:

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GENERAL NOTES:

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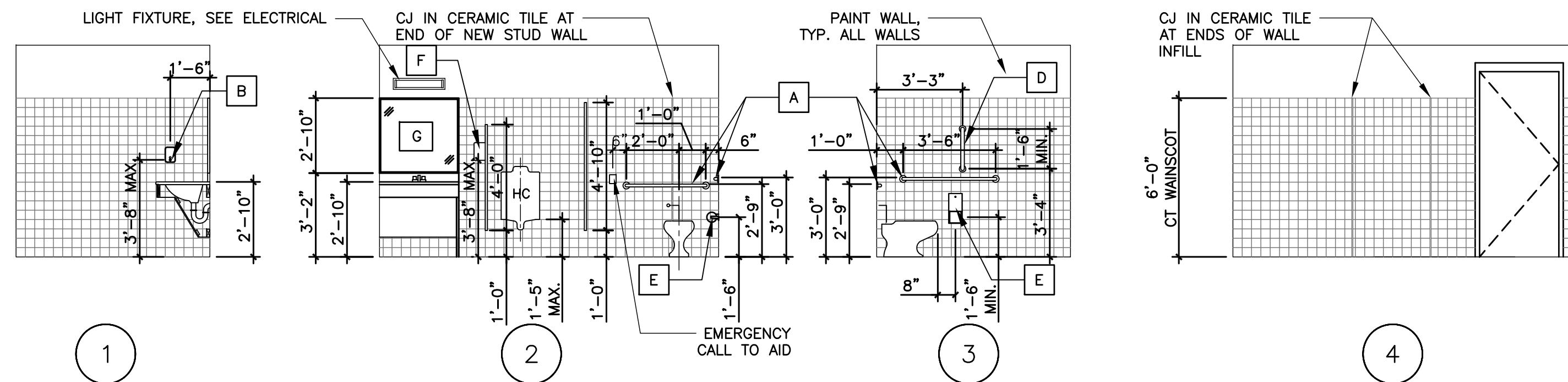
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UPPER LEVEL REFLECTED CEILING PLANS

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A.6

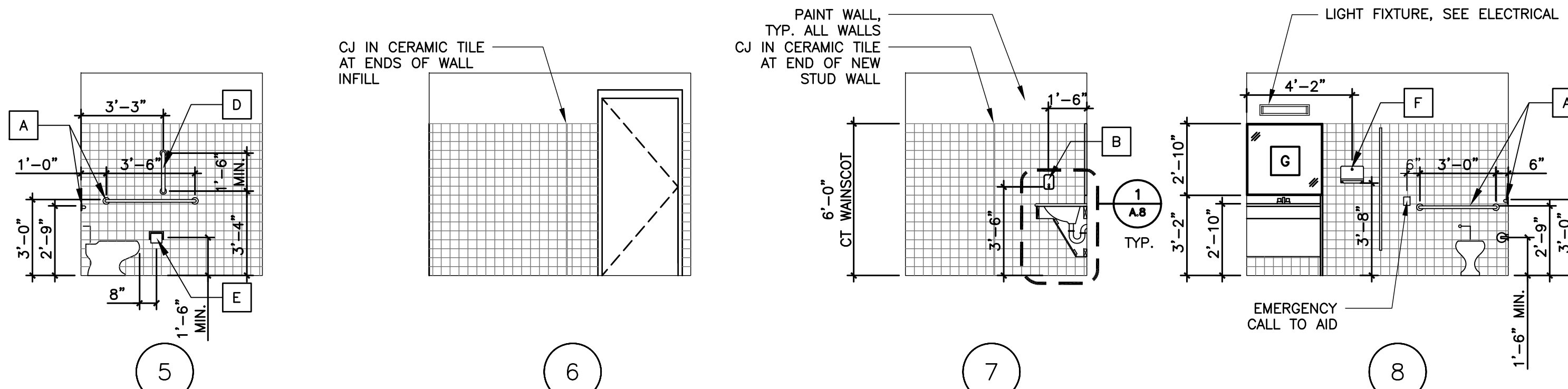
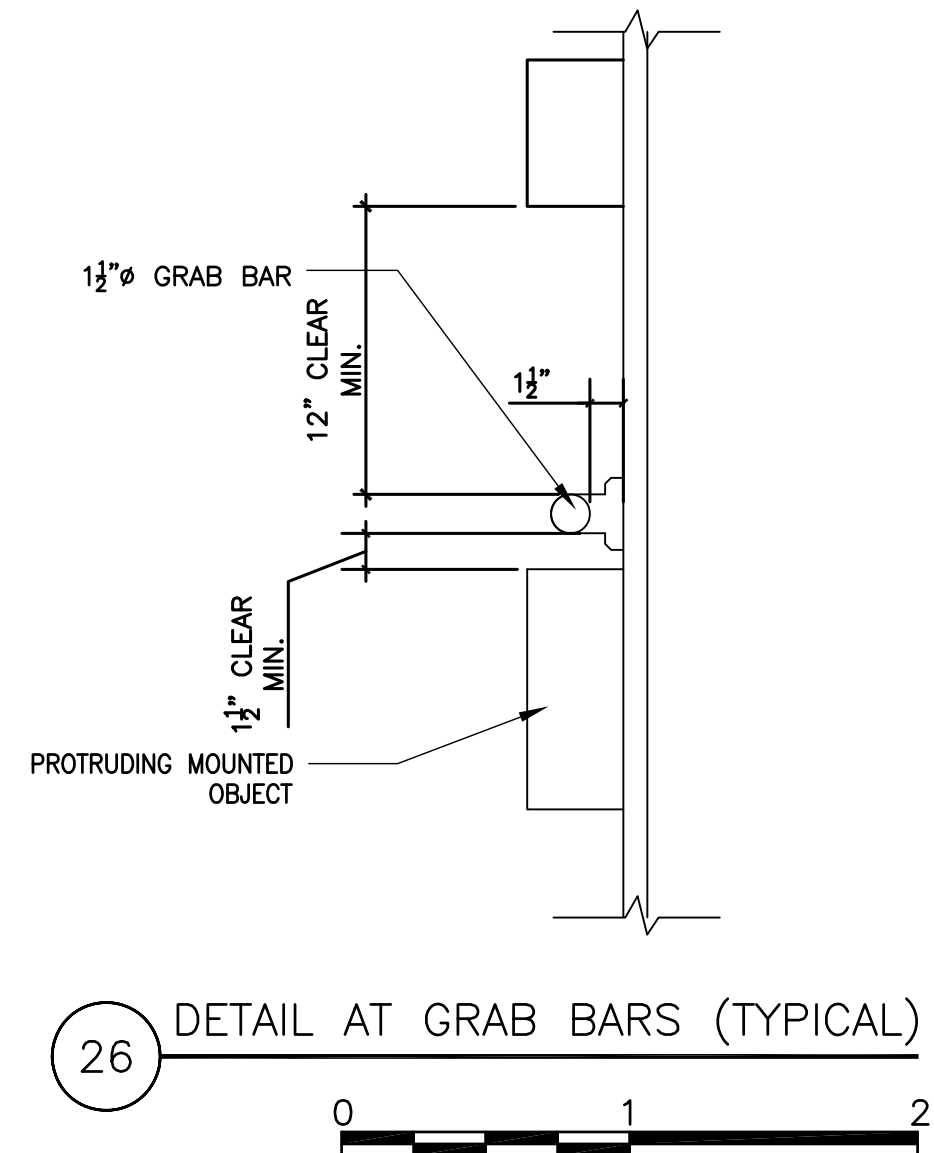




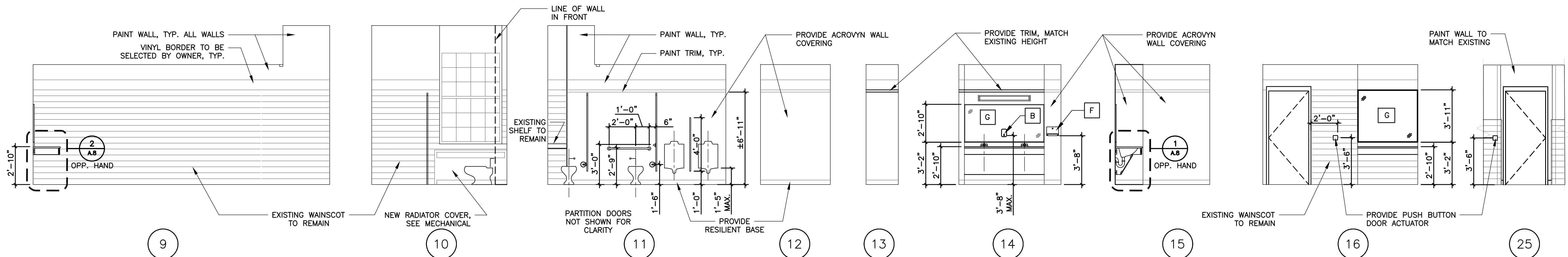
LOWER LEVEL MEN'S ROOM ELEVATIONS

**TOILET ACCESSORY KEYNOTES**

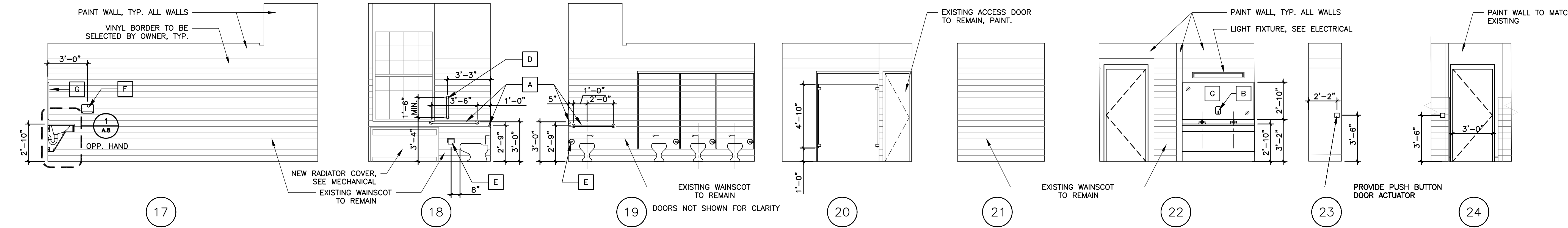
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G	LAVATORY MIRROR MOUNTING HEIGHT - 40" MAX. TO BOTTOM OF MIRROR



LOWER LEVEL WOMEN'S ROOM ELEVATIONS



UPPER LEVEL MEN'S ROOM ELEVATIONS



UPPER LEVEL WOMEN'S ROOM ELEVATIONS



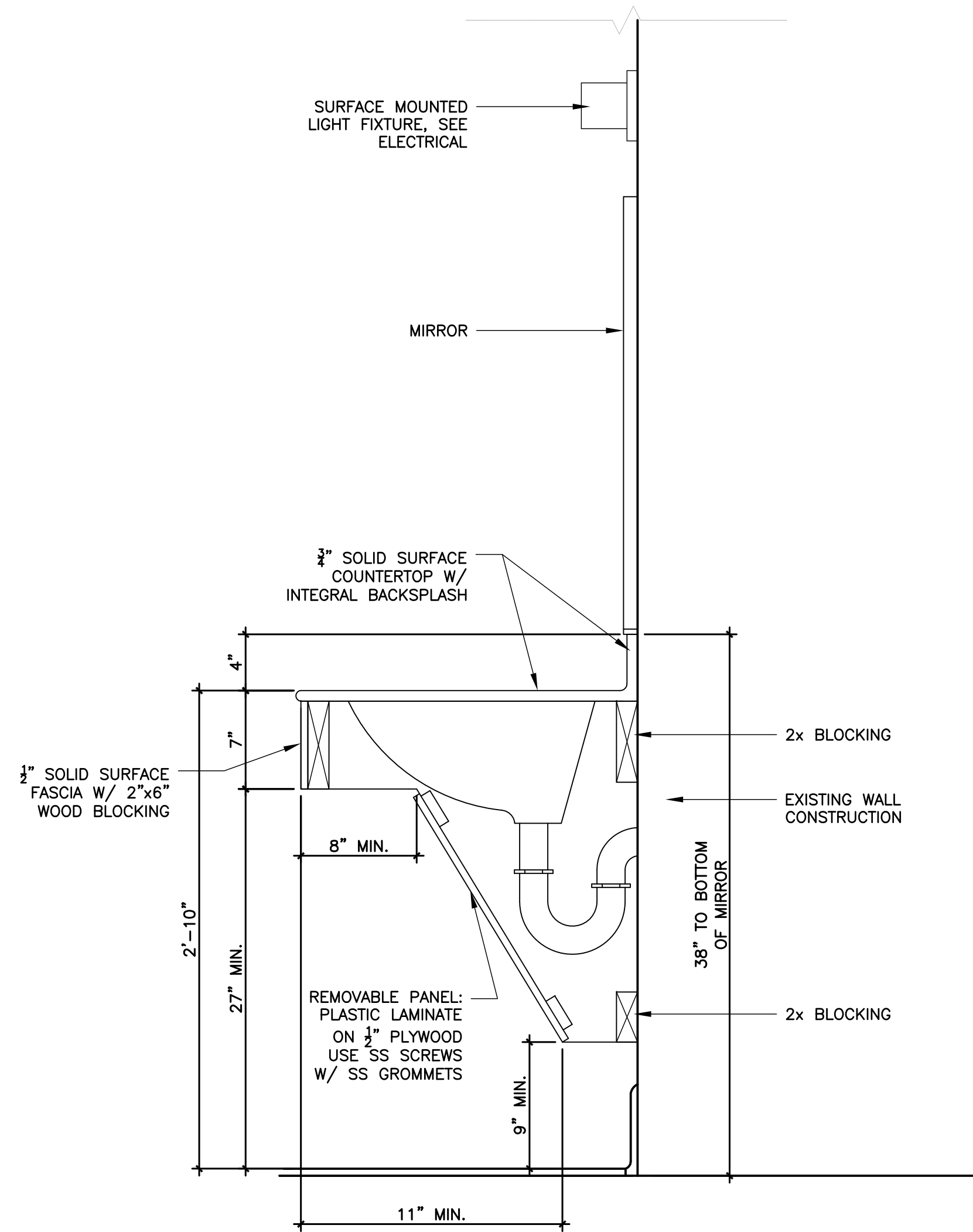
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TOILET ROOM ELEVATIONS**

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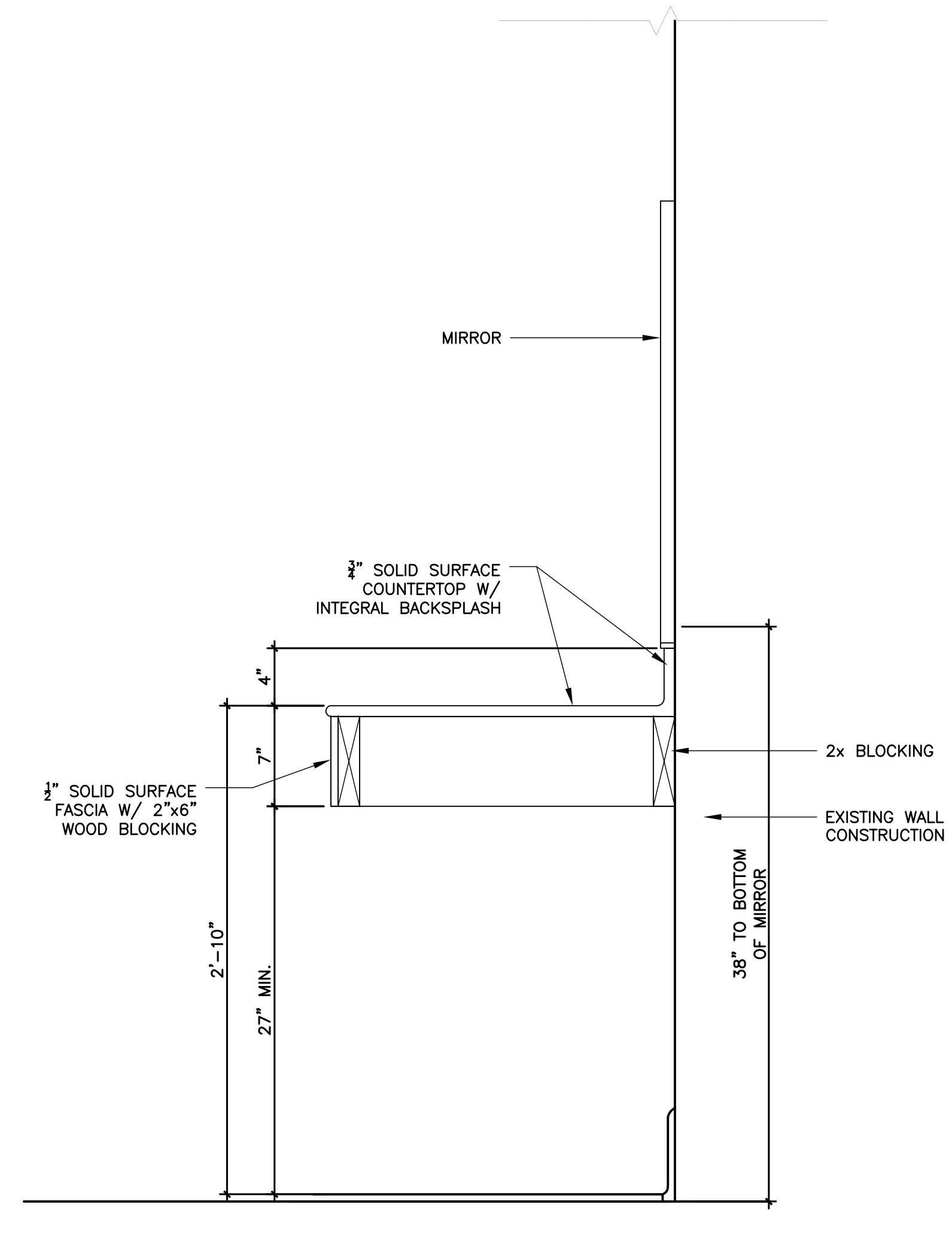
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**A.7**

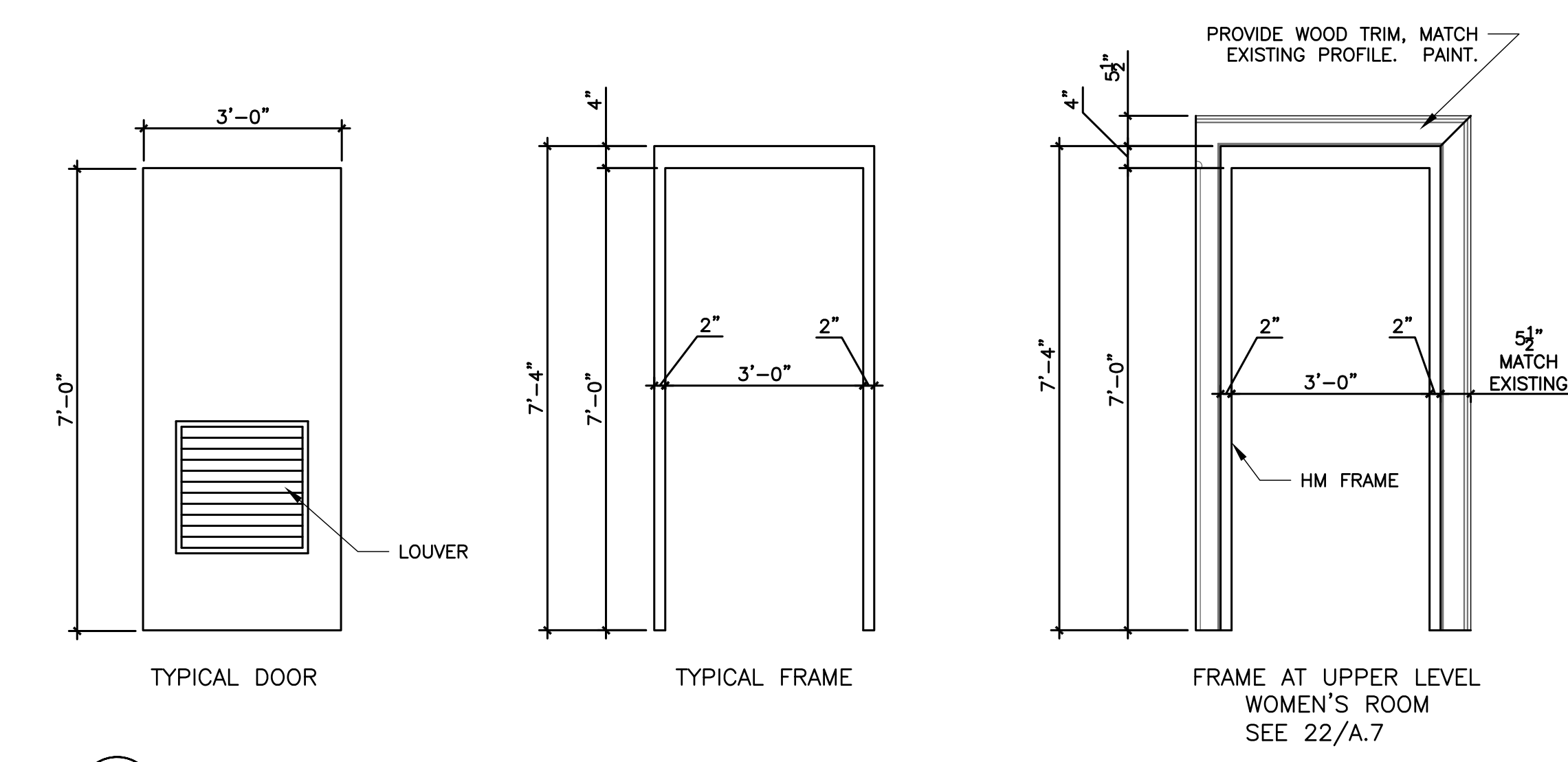




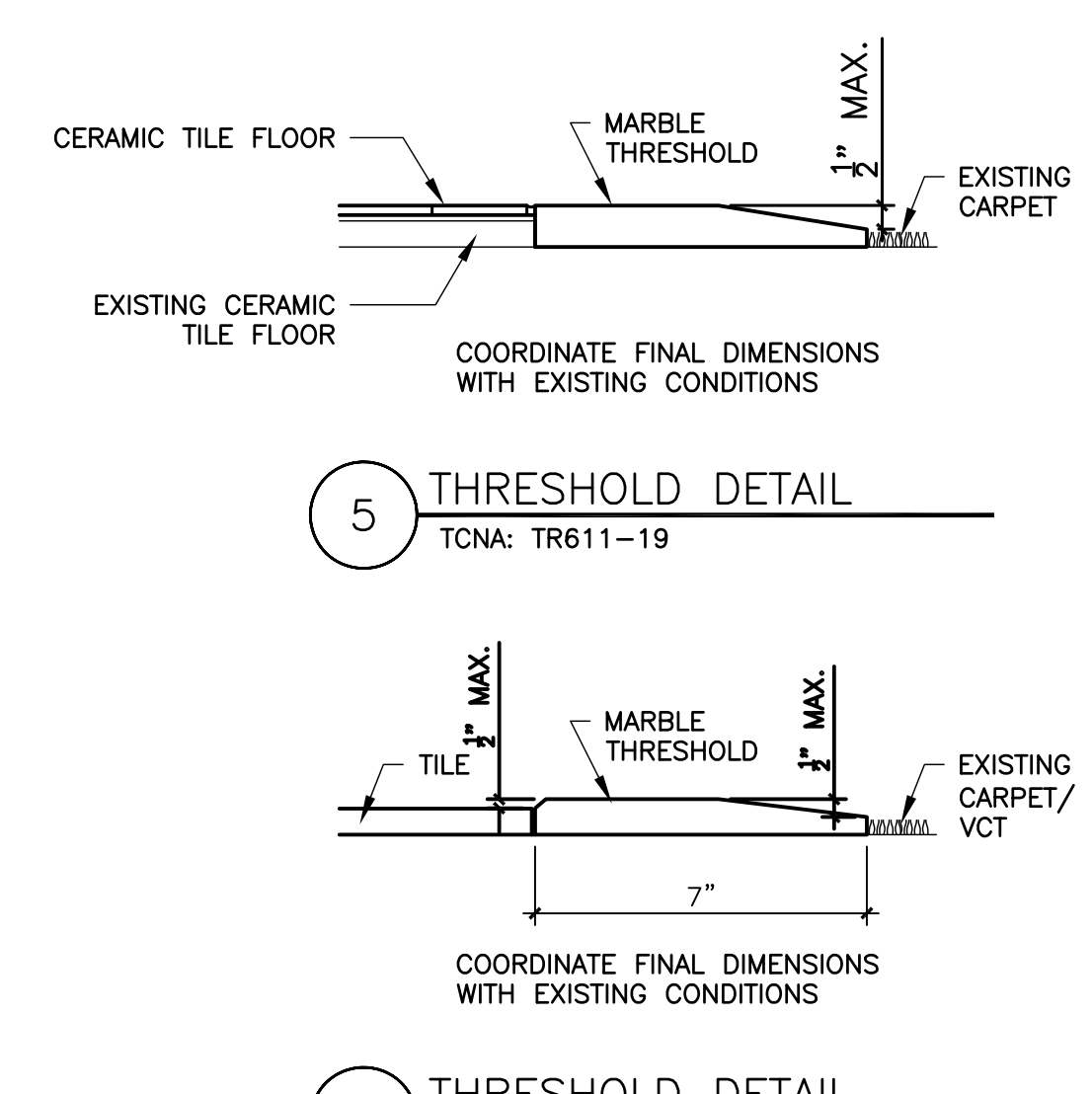
1 COUNTER DETAIL



2 COUNTER DETAIL



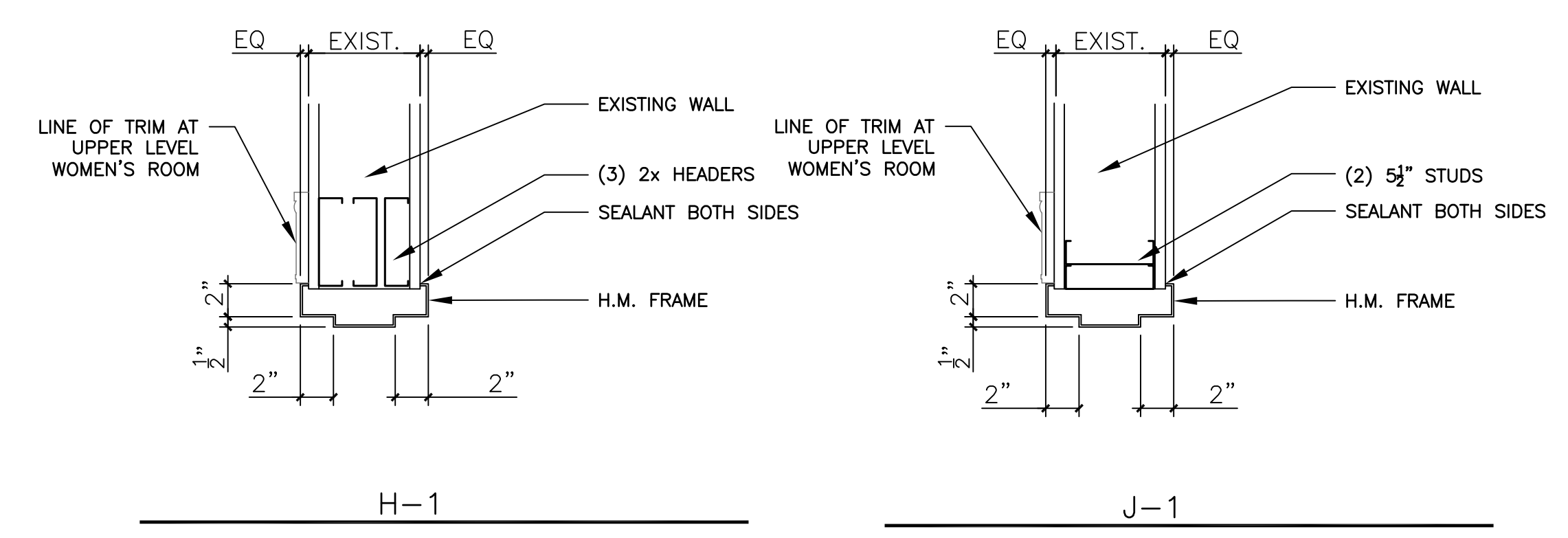
3 DOOR DETAILS



4 THRESHOLD DETAIL

5 THRESHOLD DETAIL

T.C.N.A.: TR611-19

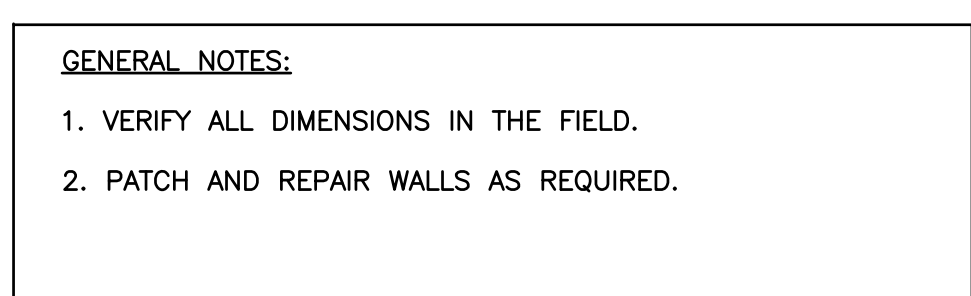


**SHEPARDSON COMMUNITY CENTER**  
**ADA COMPLIANCE**  
 MIDDLEBURY, CONNECTICUT  
**DETAILS**

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SPECIFICATIONS

1.1.	THIS CONTRACT INCLUDES THE FURNISHING OF ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND SERVICES REQUIRED FOR THE PROPER PERFORMANCE OF THE WORK HEREIN INDICATED ON THE DRAWINGS OR SPECIFIED.		6.4.4.	NEW GYPSUM BOARD WALLS: ONE (1) COAT OF PRIMER/SEALER AND TWO (2) COATS LATEX ENAMEL (GLIDDEN – COLOR AS SELECTED BY OWNER).		1/2" SLAB, 144" DROP	NO FRACTURE	1/2 POUND BALL	NEMA LD 3–2000, METHOD 3.8	FLOOR. ANCHORS SHALL BE NOT LESS THAN 7/8" DIAMETER.
1.2.	THE CONTRACTOR SHALL KEEP THE WORK AREA CLEAN OF ALL DEBRIS AT ALL TIMES AND SHALL KEEP MATERIALS PILED IN AN ORDERLY MANNER. REMOVE ALL MARKS, STAINS, AND DIRT FROM PAINTED FINISHED SURFACES AND ALL ADJACENT SURFACES.		6.4.5.	CONTRACTOR SHALL SUBMIT COLOR CHIPS FOR OWNER'S APPROVAL.		SPECIFIC GRAVITY	1.7	LONG–TERM	ASTM D570	.2 PANELS: SECURE PANELS AND STILES TO WALL WITH MANUFACTURER'S STANDARD HEAVY–DUTY STIRRUP SECURED TO
1.3.	THE CONTRACTORS AND SUBCONTRACTORS SHALL COORDINATE THEIR WORK WITH ADJACENT WORK AND COOPERATE WITH OTHER TRADES SO AS TO FACILITATE GENERAL PROGRESS OF THE WORK.		7.1	SITE CONDITIONS: VERIFY DIMENSIONS BY FIELD MEASUREMENTS BEFORE FABRICATION, INCLUDING LOCATION OF FINISH WALLS, PLUMBING FIXTURES, MECHANICAL AND ELECTRICAL ITEMS WHICH ARE CLOSE TO PARTITION WORK.		0.4% (3/4%), 0.6%(3/4") TOXICITY	99 SOLID COLORS	66 PATTERNED COLORS	PITTSBURG TEST LC50	PANELS WITH 3/8" BRASS SHOULDER, PHILLIPS HEAD SCREWS, AND BRASS SEX NUTS AND TO WALL EXPANSION SHIELDS AND SUPPORT AND TRANSMIT NO LOADS TO FINISHED CEILING. ANCHORS SHALL BE NOT METAL SCREWS.
1.4.	THE CONTRACTOR SHALL PROTECT ALL ADJACENT SURFACES FROM DAMAGE WHILE UNDER CONSTRUCTION. ANY EXISTING OR NEW SURFACES DAMAGED DURING THIS CONTRACT BY THE CONTRACTOR SHALL BE REPLACED AS NEW OR RESTORED TO PREVIOUS EXISTING CONDITIONS.		7.1.1	REGULATORY REQUIREMENTS: COMPLY WITH APPLICABLE PROVISIONS IN THE U.S. ARCHITECTURAL & TRANSPORTATION BARRIERS COMPLIANCE BOARD'S ADA–ABA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES AND ICC A117.1.		FLAMMABILITY CLASS 1 & CLASS A	ALL COLORS	ASTM E84	NFPA 255 & UL 723	.3 URINAL SCREENS: CONTINUOUS MOUNTING FLANGE STANDARD WITH MANUFACTURER.
1.5.	PROTECT ALL EQUIPMENT OF THE OWNER'S AND PERSONNEL BY TEMPORARY BARRIERS WHILE WORKING WITHIN THE PROJECT AREA. CONFER WITH THE OWNER'S REPRESENTATIVE FOR AREAS OF CONCERN OR PROBLEMS.		7.1.2	SOLID–SURFACE IS DEFINED AS NONPOROUS, HOMOGENOUS MATERIAL MAINTAINING THE SAME COMPOSITION THROUGHOUT THE PART WITH A COMPOSITION OF ACRYLIC POLYMER, ALUMINUM TRIHYDRATE FILLER AND PIGMENT.						.1 OUT–SWING DOORS SHALL USE STERLING SURFACES SEMI–CONCEALED, CONTINUOUS, INSIDE MOUNTED HINGE.
1.6.	ALL WORK SHALL BE IN COMPLIANCE WITH THE LATEST EDITIONS OF THE STATE OF CONNECTICUT BUILDING AND FIRE CODES, STATE, AND LOCAL AUTHORITIES.		7.1.3	SEE SECTIONS 18 FOR TOILET TISSUE DISPENSERS, GRAB BARS AND SIMILAR ACCESSORIES MOUNTED ON TOILET PARTITIONS; SEE PLUMBING SPECIFICATIONS FOR FIXTURES.						7.12 PILASTER TRIM SHALL CONCEAL ANCHORAGE AND LEVELING BOLTS AND SHALL BE THE MANUFACTURER'S STANDARD FABRICATED FROM 302 STAINLESS STEEL.
1.7.	THE CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO START OF ANY WORK AND NOTIFY THE OWNER OF ANY DISCREPANCIES AS THEY RELATE TO THE NEW WORK.		7.1.4	SUBMITTALS: .1 PRODUCT DATA FOR EACH TYPE OF PRODUCT. INCLUDE CONSTRUCTION DETAILS, MATERIAL DESCRIPTIONS, DIMENSIONS OF INDIVIDUAL COMPONENTS AND PROFILES, AND FINISHES FOR TOILET COMPARTMENTS.						7.13 HINGES: MANUFACTURER'S STANDARD SELF–CLOSING TYPE, ADJUSTABLE TO HOLD DOOR AT ANY ANGLE UP TO 90 DEGREES. JACKNOB 304 STAINLESS STEEL HEAVY–DUTY OR APPROVED EQUAL.
1.8.	SUBMIT SIX (6) SETS OF SHOP DRAWINGS OR DATA SHEETS ON ALL PRODUCTS FOR REVIEW AND APPROVAL BY THE ARCHITECT PRIOR TO COMMENCING WITH CONSTRUCTION.									.1 OUT–SWING DOORS SHALL USE STERLING SURFACES SEMI–CONCEALED, CONTINUOUS, INSIDE MOUNTED HINGE.
2.	METAL FRAMING									7.14 DOOR PULL: MANUFACTURER'S HEAVY–DUTY CAST STAINLESS–STEEL PULL AT OUT–SWINGING DOORS THAT COMPLIES WITH REGULATORY REQUIREMENTS FOR ACCESSIBILITY. PROVIDE UNITS ON BOTH SIDES OF DOORS AT COMPARTMENTS DESIGNATED AS ACCESSIBLE, AND ADDITIONAL PULL MOUNTED 6" FROM HINGE SIDE, BETWEEN 26" AND 36" ABOVE THE FLOOR. MOUNT WITH THROUGH BOLTS.
2.1.	SYSTEM COMPONENTS: WITH EACH TYPE OF METAL FRAMING REQUIRED, PROVIDE MANUFACTURER'S STANDARD STEEL STUDS, RUNNERS (TRACKS), BLOCKING, LINTELS, CLIP ANGLES, SHOES, REINFORCEMENTS, FASTENERS, AND ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER FOR APPLICATIONS AS INDICATED, AS NEEDED TO PROVIDE A COMPLETE METAL FRAMING SYSTEM.									7.15 COAT HOOK: MANUFACTURER'S HEAVY–DUTY COMBINATION CAST–STAINLESS–STEEL HOOK AND RUBBER–TIPPED BUMPER, SIZED TO PREVENT IN–SWINGING DOOR FROM HITTING COMPARTMENT–MOUNTED ACCESSORIES. MOUNT WITH THROUGH BOLTS.
2.2.	MATERIALS AND FINISHES									7.16 LATCH AND KEEPER: MANUFACTURER'S HEAVY–DUTY SURFACE–MOUNTED CAST–STAINLESS–STEEL LATCH UNIT DESIGNED TO RESIST DAMAGE DUE TO SLAMMING, WITH COMBINATION RUBBER–FACED DOOR STRIKE AND KEEPER, AND WITH PROVISION FOR EMERGENCY ACCESS. PROVIDE UNITS THAT COMPLY WITH REGULATORY REQUIREMENTS FOR ACCESSIBILITY AT COMPARTMENTS DESIGNATED AS ACCESSIBLE. MOUNT WITH THROUGH BOLTS.
2.2.1.	FABRICATE METAL FRAMING COMPONENTS OF STRUCTURAL QUALITY STEEL SHEET WITH A MINIMUM YIELD POINT OF 40,000 PSI; ASTM A–446, A–570, OR A–611 (MINIMUM 16 GA. USG ST16).									7.17 DOOR BUMPER: MANUFACTURER'S HEAVY–DUTY RUBBER–TIPPED CAST–STAINLESS–STEEL BUMPER AT OUT–SWINGING DOORS. MOUNT WITH THROUGH BOLTS.
2.2.2.	PROVIDE GALVANIZED FINISH TO METAL FRAMING COMPONENTS, COMPLYING WITH ASTM A–525 FOR MINIMUM G60 COATING.									7.18 ADJUST HARDWARE FOR PROPER OPERATION AFTER INSTALLATION AND CLEAN EXPOSED SURFACES OF COMPARTMENTS, HARDWARE, AND FITTINGS.
2.2.3.	FABRICATION: FRAMING COMPONENTS SHALL BE FABRICATED IN PLACE. FABRICATE PANELS PLUMB, SQUARE, TRUE TO LINE, AND BRACED AGAINST RACKING WITH JOINTS SCREWED. NEST DOUBLE STUDS AT DOOR OPENINGS.									7.19 EXECUTION
2.2.4.	MANUFACTURER: ALL METAL FRAMING UNITS SHALL BE BY USG INRYCO/MILCOR OR EQUAL.									7.19.1 EXAMINE AREAS AND CONDITIONS, WITH INSTALLER PRESENT, FOR COMPLIANCE WITH REQUIREMENTS FOR FASTENING, SUPPORT, ALIGNMENT, OPERATING CLEARANCES, AND OTHER CONDITIONS AFFECTING PERFORMANCE OF THE WORK.
3.	MISCELLANEOUS METALS									7.19.2 CONFIRM LOCATION AND ADEQUACY OF BLOCKING AND SUPPORTS REQUIRED FOR INSTALLATION. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
3.1.	METAL SHAPES AND MEMBERS SHALL BE NEW, FREE OF DEFECTS, DURABLE, TRUE TO DETAIL MEETING ASTM A–36 STEEL REQUIREMENTS.									7.19.3 GENERAL: COMPLY WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. INSTALL UNITS RIGID, STRAIGHT, LEVEL, AND PLUMB, SCRIBED TO ADJACENT FINISHES IN ACCORDANCE WITH APPROVED SHOP DRAWINGS AND PRODUCT DATA. SECURE UNITS IN POSITION WITH MANUFACTURER'S RECOMMENDED FASTENING DEVICES.
3.2.	MEMBERS NOT NOTED AS BEING GALVANIZED SHALL BE COATED WITH NO. 25 ZINC CHROMATE PRIMER.									.01 PROVIDE PRODUCT IN LARGEST PIECES AVAILABLE.
3.3.	INSTALLATION OF HIGH–STRENGTH BOLTS SHALL CONFORM TO THE SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A–325 BOLTS. ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE FOR WELDING E70XX.									.02 FORM FIELD JOINTS USING MANUFACTURER'S RECOMMENDED ADHESIVE, WITH JOINTS INCONSPICUOUS IN FINISHED WORK. EXPOSED JOINTS/SEAMS WILL NOT BE ALLOWED.
4.	ROUGH CARPENTRY									.03 CUT AND FINISH COMPONENT EDGES WITH CLEAN, SHARP RETURNS.
4.1.	INCLUDES ALL WOOD BLOCKING, FRAMING, SLEEPERS, NAILERS, AND BACKING BOARD. LUMBER SHALL BE PROVIDED KILN DRIED WITH 15% MAXIMUM MOISTURE CONTENT. CONSTRUCTION GRADE HEM FIR OR DOUGLAS FIR (ALL WOOD SHALL BE FIRE RETARDANT TYPE).		7.2	SEQUENCING/SCHEDULING:						.04 CAREFULLY DRESS JOINTS SMOOTH, REMOVE SURFACE SCRATCHES, AND CLEAN ENTIRE SURFACE.
5.	GYPSUM DRYWALL		7.2.1	PLUMBING FIXTURES, FLOOR FINISHES, AND WALL FINISHES SHALL BE INSTALLED PRIOR TO INSTALLATION OF COMPARTMENTS AND SCREENS.						.05 MAXIMUM CLEARANCES: PILASTERS AND PANELS – 3/8"; PANELS AND WALLS – 1".
5.1.	QUALITY CRITERIA		7.3	MANUFACTURER						.06 FULL–HEIGHT (CONTINUOUS) BRACKETS: SECURE PANELS TO WALLS AND TO PILASTERS WITH FULL–HEIGHT BRACKETS. LOCATE BRACKET FASTENERS SO HOLES FOR WALL ANCHORS OCCUR IN MASONRY OR TILE JOINTS. ALIGN BRACKETS AT PILASTERS WITH BRACKETS AT WALLS.
5.1.1.	INDUSTRY STANDARD: COMPLY WITH APPLICABLE REQUIREMENTS OF GA–216–75 "APPLICATION AND FINISHING OF GYPSUM BOARD", BY THE GYPSUM ASSOCIATION.		7.3.1	BASIS OF DESIGN – AMERICAN BUILDING SPECIALTIES CORP.						.07 OVERHEAD–BRACED UNITS: SECURE PILASTERS TO FLOOR AND LEVEL, PLUMB, AND TIGHTEN. SET PILASTERS WITH ANCHORS PENETRATING NOT LESS THAN 1–3/4" INTO STRUCTURAL FLOOR UNLESS OTHERWISE INDICATED IN MANUFACTURER'S WRITTEN INSTRUCTIONS. SECURE CONTINUOUS HEADRAIL TO EACH PILASTER WITH NO FEWER THAN TWO FASTENERS. HANG DOORS TO ALIGN TOPS OF DOORS WITH TOPS OF PANELS, AND ADJUST SO TOPS OF DOORS ARE PARALLEL WITH OVERHEAD BRACE WHEN DOORS ARE IN CLOSED POSITION.
5.1.2.	ALLOWABLE TOLERANCES: 1/8" OFFSETS BETWEEN PLANES OF BOARD FACES, AND 1/8" IN 8'–0" FOR PLUMB, LEVEL, AND BOW.		7.3.2	WARRANTY: TEN YEAR LIMITED WARRANTY ON PRODUCT AND ONE YEAR WARRANTY FOR HARDWARE.						.07 URINAL SCREENS: ATTACH WITH ANCHORING DEVICES TO SUIT SUPPORTING STRUCTURE. SET UNITS LEVEL AND PLUMB, RIGID, AND SECURED TO RESIST LATERAL IMPACT.
5.2.	MATERIALS:		7.3.3	PERFORMANCE REQUIREMENTS:						7.19.4 REPAIR: REPAIR OR REPLACE DAMAGED WORK WHICH CANNOT BE REPAIRED, TO ARCHITECT'S SATISFACTION.
5.2.1	ALL MATERIALS ARE TO BE AS MANUFACTURED BY USG OR EQUAL.									7.19.5 CLEANING AND PROTECTION: KEEP COMPONENTS CLEAN DURING INSTALLATION. REMOVE, ADHESIVES, SEALANTS AND OTHER STAINS.
5.2.2	GYPSUM BOARD: 3/8" INTERIOR, FIRE–CODE, 1/2" INTERIOR, WATERPROOF, TAPERED EDGE BOARDS IN MAXIMUM LENGTHS PRACTICAL. INSTALL ALL GWB PERPENDICULAR TO STUDS.									7.19.6 HARDWARE ADJUSTMENT: ADJUST AND LUBRICATE HARDWARE ACCORDING TO HARDWARE MANUFACTURER'S WRITTEN INSTRUCTIONS FOR PROPER OPERATION. SET HINGES ON IN–SWINGING DOORS TO HOLD DOORS OPEN APPROXIMATELY 30° FROM CLOSED POSITION WHEN UNLATCHED. SET HINGES ON OUT–SWINGING DOORS TO RETURN TO FULLY CLOSED POSITION.
5.2.3	FASTENERS: USG SCREWS 1–1/4" TYPE S BUGLE HEAD OR SIZE AS REQUIRED.									8. INTERIOR ARCHITECTURAL WOODWORK
5.2.4	METAL CORNER BEADS (OUTSIDE CORNERS), USG 103 OR EQUAL.									8.1. INTERIOR ARCHITECTURAL WOODWORK INCLUDES WOOD FURRING, BLOCKING, SHIMS AND SOLID SURFACE, MATERIALS FOR INSTALLING THESE ITEMS, UNLESS CONCEALED IN OTHER CONSTRUCTION BEFORE INSTALLATION.
5.2.5	PANEL JOINTS AND INTERIOR CORNERS; USG PERF–A–TAPE AND COMPOUND.									8.2. SUBMITTALS
5.2.6	JOINT COMPOUND: USG READY MIXED PLUS 3 JOINT COMPOUND.									8.2.1. CONTRACTOR(S) SHALL PROVIDE PRODUCT DATA ON ALL PRODUCTS USED UNDER INTERIOR ARCHITECTURAL WOODWORK.
5.2.7	TAPING: 3 COAT SYSTEMS (SAND BETWEEN COATS AS REQUIRED).									8.2.2. CONTRACTOR SHALL ALSO INCLUDE DATA FOR FIRE–RATINGS MANUFACTURER AND CERTIFICATION BY TREATING PLANT THAT TREATING MATERIALS COMPLY WITH REQUIREMENTS.
5.2.8	AT ABUTTING SURFACES: USG 200A CASING BEAD.									
6.	PAINTING									
6.1.	PAINTING SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO, PRIMING AND PAINTING OF GYPSUM WALLBOARD, HOLLOW METAL DOORS AND FRAMES, MISCELLANEOUS STEEL, AND EXISTING GYPSUM AND CMU WALLS.									
6.2.	ALL SURFACES TO BE PAINTED SHALL BE DRY, CLEAN, AND FREE OF OIL, GREASE, AND ANY FOREIGN MATERIALS THAT WILL SHOW THROUGH OR OTHERWISE ADVERSELY AFFECT THE PAINT FINISH. FILL AND SAND ALL IRREGULARITIES WITH MATERIALS APPROVED BY MANUFACTURER.									
6.3.	ALL PRIMER AND PAINT COAT APPLICATIONS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED GUIDELINES. LOW VOC. SEE PAINTING SCHEDULE FOR MATERIAL TYPES AND NUMBER OF COATS.									
6.4.	PAINTING SCHEDULE:									
6.4.1.	EXISTING CMU WALLS: TWO (2) COATS LATEX ENAMEL (GLIDDEN – COLOR AS SELECTED BY OWNER).									
6.4.2.	NEW HOLLOW METAL DOORS AND FRAMES: TWO (2) COATS OF LATEX ENAMEL (GLIDDEN – COLOR AS SELECTED BY OWNER).									

SHEPARDSON COMMUNITY CENTER

ADA COMPLIANCE

MIDDLEBURY, CONNECTICUT

SPECIFICATIONS

AMES & WHITAKER  
MEMBERS OF THE AMERICAN INSTITUTE OF ARCHITECTS  
Architects

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|--|---|--|
|  | <p>.16 LAY OUT TILE LANSOINCS TO DIMENSION INDICATED OR TO NEXT FULL TILE BEYOND DIMENSIONS INDICATED.</p> <p>.17 EXPANSION JOINTS: PROVIDE EXPANSION JOINTS AND OTHER SEALANT-FILLED JOINTS, INCLUDING CONTROL, CONTRACTION AND ISOLATION JOINTS, WHERE INDICATED. FORM JOINTS DURING INSTALLATION OF SETTING MATERIALS, MORTAR BEDS, AND TILE. DO NOT SAW-CUT JOINTS. WHERE JOINTS OCCUR IN CONCRETE SUBSTRATES, LOCATE JOINTS IN TILE SURFACES DIRECTLY ABOVE THEM.</p> <p>FLOOR SEALER: APPLY FLOOR SEALER TO CEMENTITIOUS GROUT JOINTS IN TILE FLOORS ACCORDING TO FLOOR-SEALER MANUFACTURER'S WRITTEN INSTRUCTIONS. AS SOON AS FLOOR SEALER HAS PENETRATED GROUT JOINTS, REMOVE EXCESS SEALER FROM TILE FACES BY WIPING WITH SOFT CLOTH.</p>  | <p>D. REMOVE AIR BUBBLES, WRINKLES, BUSTERS AND OTHER DEFECTS.</p> <p>E. TRIM EDGES FOR COLOR UNIFORMITY, PATTERN MATCH, AND TIGHT CLOSURE AT SEAMS AND EDGES. BUTT SEAMS.</p>   |
| 17. VINYL WALL COVERINGS                       | <p>17.1 SUBMITTALS</p> <p>.1 PRODUCT DATA FOR EACH TYPE OF PRODUCT SPECIFIED. INCLUDE DATA ON PHYSICAL CHARACTERISTICS, DURABILITY, FADE RESISTANCE AND FLAME RETARDANT CHARACTERISTICS.</p> <p>.2 SAMPLES FOR VERIFICATION IN SETS FOR EACH COLOR, TEXTURE AND PATTERN SPECIFIED, SHOWING THE FULL RANGE OF VARIATIONS EXPECTED IN THESE CHARACTERISTICS.</p> <p>.3 SCHEDULE OF WALL COVERINGS USING SAME ROOM DESIGNATIONS INDICATED ON DRAWINGS.</p> <p>.4 PRODUCT CERTIFICATES SIGNED BY MANUFACTURERS OF WALL COVERINGS CERTIFYING THAT THEIR PRODUCTS COMPLY WITH SPECIFIED REQUIREMENTS.</p> <p>.5 MAINTENANCE DATA FOR WALL COVERING.</p> <p>17.2 QUALITY ASSURANCE</p> <p>.1 INSTALLER QUALIFICATIONS: ENGAGE AN EXPERIENCED INSTALLER WHO HAS COMPLETED 5 PROJECTS SIMILAR IN MATERIAL, DESIGN, AND EXTENT TO THAT INDICATED FOR THIS PROJECT AND WITH A RECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE.</p> <p>.2 FIRE-TEST RESPONSE CHARACTERISTICS: PROVIDE WALL COVERINGS WITH THE FOLLOWING SURFACE-BURNING CHARACTERISTICS AS DETERMINED BY TESTING IDENTICAL PRODUCTS PER ASTM E84 BY UL OR ANOTHER TESTING AND INSPECTION AGENCY ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.</p> <p>A. FLAME SPREAD: 25 OR LESS.</p> <p>B. SMOKE DEVELOPED: 25 OR LESS.</p> <p>C. FUEL CONTRIBUTED: 15 OR LESS.</p> <p>.3 VINYL WALL COVERINGS AND ADHESIVE SHALL BE MILDEW RESISTANT AND CONTAIN BACTERIAL ADDITIVE TO INHIBIT MICRO-BIOLOGICAL GROWTH OF STAPHYLOCOCCUS, E-COLI, AND ASPERGILUS NIGER.</p> <p>17.4 PROJECT CONDITIONS</p> <p>.1 SPACE ENCLOSURE AND ENVIRONMENTAL LIMITATIONS: DO NOT INSTALL WALL COVERING UNTIL SPACE IS ENCLOSED AND WEATHER-PROOF, WET-WORK IN SPACE IS COMPLETED AND NOMINALLY DRY, WORK ABOVE CEILING IS COMPLETE, AND AMBIENT TEMPERATURE AND HUMIDITY CONDITIONS ARE AND WILL BE CONTINUOUSLY MAINTAINED AT VALUES NEAR TO THOSE INDICATED FOR FINAL OCCUPANCY.</p> <p>.2 LIGHTING: DO NOT INSTALL WALL COVERING UNTIL A LIGHTING LEVEL OF NOT LESS THAN 15 FOOT-CANDLES (160 LUX) IS PROVIDED ON THE SURFACES TO RECEIVE THE WALL COVERING.</p> <p>.3 VENTILATION: PROVIDE CONTINUOUS VENTILATION DURING INSTALLATION AND NOT LESS THAN THE TIME RECOMMENDED BY THE WALL COVERING MANUFACTURER FOR FULL DRYING OR CURING.</p> <p>17.5 EXTRA MATERIALS</p> <p>.1 FURNISH EXTRA MATERIALS DESCRIBED BELOW BEFORE INSTALLATION BEGINS THAT MATCH PRODUCTS INSTALLED, ARE PACKAGED WITH PROTECTIVE COATING FOR STORAGE, AND ARE IDENTIFIED WITH LABELS DESCRIBING CONTENTS.</p> <p>A. ROLL OF WALL COVERING MATERIAL: FULL-SIZE UNITS EQUAL TO 5% OF AMOUNT FOR EACH TYPE INSTALLED.</p> <p>17.6 PRODUCTS</p> <p>.1 MANUFACTURER: DESIGNTEX.</p> <p>.2 ADHESIVES: MILDEW-RESISTANT, NON-STAINING ADHESIVE, FOR USE WITH SPECIFIC WALL COVERING AND SUBSTRATE APPLICATION, AS RECOMMENDED BY WALL COVERING MANUFACTURER.</p> <p>.3 ACCESSORIES: WALL LINER; NON-WOVEN, SYNTHETIC UNDERLAYMENT AND ADHESIVE AS RECOMMENDED BY WALL COVERING MANUFACTURER.</p> <p>17.7 EXECUTION</p> <p>.1 EXAMINE SUBSTRATES FOR COMPLIANCE WITH REQUIREMENTS FOR MOISTURE CONTENT AND OTHER CONDITIONS AFFECTING PERFORMANCE OF WORK OF THIS SECTION. DO NOT PROCEED WITH INSTALLATION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.</p> <p>.2 PREPARATION</p> <p>A. COMPLY WITH MANUFACTURER'S INSTRUCTIONS FOR SURFACE PREPARATIONS.</p> <p>B. CLEAN SUBSTRATES OF SUBSTANCES THAT COULD IMPAIR WALL COVERING'S BOND, INCLUDING MOLD, MILDEW, OIL, GREASE, INCOMPATIBLE PRIMERS, AND DIRT.</p> <p>C. PREPARE SUBSTRATE TO ACHIEVE A SMOOTH, CLEAN, DRY SURFACE, FREE OF FLAKING, UNSOUND COATINGS, CRACKS AND DEFECTS.</p> <p>D. CHECK PAINTED SURFACES FOR PIGMENT BLEEDING. SAND GLOSS, SEMI-GLOSS AND EGGSHELL FINISHES WITH FINE SANDPAPER.</p> <p>E. INSTALL WALL LINER, WITH NO GAPS OR OVERLAPS, WHERE REQUIRED BY WALL COVERING MANUFACTURER. FORM SMOOTH WRINKLE-FREE SURFACE FOR FINISHED INSTALLATION. DO NOT BEGIN WITH WALL COVERING INSTALLATION UNTIL WALL LINER HAS DRIED.</p> <p>.3 INSTALLATION - GENERAL</p> <p>A. GENERAL: COMPLY WITH WALL COVERING MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS APPLICABLE TO PRODUCTS AND APPLICATIONS INDICATED, EXCEPT WHERE MORE STRINGENT REQUIREMENTS APPLY.</p> <p>B. INSTALL WALL COVERING WITH NO GAPS OR OVERLAPS.</p> <p>C. INSTALL SEAMS VERTICAL AND PLUMB AT LEAST 6" FROM OUTSIDE CORNERS, AND 3" FROM INSIDE CORNERS. NO HORIZONTAL SEAMS.</p> | <p>17.8 CLEANING</p> <p>.1 REMOVE EXCESS ADHESIVE AT FINISHED SEAMS, PERIMETER EDGES, AND ADJACENT SURFACES.</p> <p>.2 REPLACE STRIPS THAT CANNOT BE CLEANED.</p> <p>17.9 VINYL WALL COVERING DATA SHEET.</p> <p>.1 VINYL WALL COVERING STANDARD: FS CCC-W-408A AND CFFA-W-101-A, TYPE II, CLASS A, MEDIUM DUTY.</p> <p>.2 WALLCOVERING DURABILITY STANDARD: ASTM F793, FOR CATEGORY V, TYPE II COMMERCIAL SERVICEABILITY.</p> <p>.3 TOTAL WEIGHT: 21 OZ. PER LINEAL YARD. TOTAL WEIGHT DOES NOT INCLUDE PERFORMANCE COATINGS.</p> <p>.4 WIDTH 54".</p> <p>.5 BACKING MATERIAL: NON-WOVEN.</p> <p>.6 STAIN RESISTANT COATING: DUPONT "TEDLAR" COATING, COMPLYING WITH FS L-P-1040-B.</p> |
|  | <p>18. TOILET ACCESSORIES</p> <p>18.1 SUBMITTALS</p> <p>.1 PRODUCT DATA: INCLUDE CONSTRUCTION DETAILS, MATERIAL, DESCRIPTIONS AND THICKNESS, DIMENSIONS, PROFILES, FASTENING AND MOUNTING METHODS, SPECIFIED OPTIONS, AND FINISHES FOR EACH TYPE OF ACCESSORY SPECIFIED</p> <p>.2 SAMPLES: FOR EACH ACCESSORY ITEM TO VERIFY DESIGN, OPERATION, AND FINISH REQUIREMENTS.</p> <p>.3 SETTING DRAWINGS: FOR CUT-OUTS REQUIRED IN OTHER WORK; INCLUDE TEMPLATES, SUBSTRATE PREPARATION INSTRUCTIONS, AND DIRECTIONS FOR PREPARING CUT-OUTS AND INSTALLING ANCHORING DEVICES.</p> <p>.4 PRODUCT SCHEDULE: INDICATING TYPES, SIZES, AND INSTALLATION LOCATIONS BY ROOM OF EACH ACCESSORY REQUIRED.</p> <p>.5 MAINTENANCE DATA: FOR ACCESSORIES INCLUDED IN MAINTENANCE MANUALS. PROVIDE LIST OF REPLACEMENT PARTS AND SERVICE RECOMMENDATIONS.</p> <p>.6 THE FOLLOWING ITEMS MARKED (NIC) ARE SUPPLIED BY OWNER TO THE CONTRACTOR. CONTRACTOR SHALL NOTIFY OWNER WHEN ITEMS ARE REQUIRED FOR INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR INSTALLATION.</p> <p>18.2 TOILET AND BATH ACCESSORY SCHEDULE</p> <p>.1 WASTE RECEPTACLE: (NIC) FREESTANDING</p> <p>.2 SOAP DISPENSER, SURFACE MOUNTED. PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.</p> <p>.3 HAND TOWEL DISPENSER, SURFACE MOUNTED. PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.</p> <p>.4 TOILET TISSUE DISPENSER DOUBLE ROLL, SURFACE MOUNTED. PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.</p> <p>.5 MIRROR</p> <p>a. PRODUCTS: BOBRICK STAINLESS-STEEL CHANNEL FRAMED MIRROR, SIZED AS INDICATED.</p> <p>b. FRAMED MIRROR: FABRICATE BRIGHT FINISHED STAINLESS STEEL TRIM, AND 1/2" POLISHED GLASS WITH SQUARE CORNERS, MITERED, WELDED, AND GROUND SMOOTH. EXTERIOR OUTSIDE EDGE DIMENSIONS. MOUNT WITH THEFT-RESISTANT HARDWARE.</p>   |  |
| HAZARDOUS MATERIALS REMEDIATION SPECIFICATIONS |   |  |
|  | <p>19. REMOVAL OF OTHER HAZARDOUS AND REGULATED MATERIALS</p> <p>PART 1 GENERAL</p> <p>1.1 CONDITIONS</p> <p>A. ALL WORK SHALL BE DONE IN ACCORDANCE WITH 40 CFR PARTS 82, 17 TO 179, 260 TO 270, 273, 280 AND 281, REGULATIONS OF CONNECTICUT STATE AGENCIES (RCSA) SECTION 22a-116 TO 122, -454, AND -449, NFPA 30, NFPA 31, NFPA 327, API 1604, 40 CFR PART 761, TSCA SEC. 6(e), DOT 49 CFR PARTS 172 TO 180 AND ALL OTHER APPLICABLE STATE AND FEDERAL REGULATIONS.</p> <p>B. THE CONTRACTOR WILL BE HELD TO HAVE EXAMINED THE SITE ON WHICH THIS WORK IS TO BE PERFORMED AND TO HAVE SATISFIED HIMSELF/HIMSELF AS TO THE CONDITIONS SURROUNDING THE PREMISES AS NO ALLOWANCE WILL SUBSEQUENTLY BE MADE FOR FAILURE ON HER/ HIS PART TO DO SO. THE SUBMISSION OF A PROPOSAL BY THE CONTRACTOR WILL BE CONSTRUED AS ACCEPTANCE, BY THE CONTRACTOR, OF THE SCOPE OF WORK AS SUFFICIENT TO ENABLE HER/ HIS SUPPLYING THE NECESSARY DETAIL OF ALL WORK CONTEMPLATED HEREUNDER, ALL TO THE APPROVAL OF THE BUILDING OWNERS' TECHNICAL REPRESENTATIVE, AND WITHOUT EXTRA CHARGE. INsofar AS POSSIBLE, THE CONTRACTOR, IN CARRYING OUT HER/HIS WORK, MUST EMPLOY SUCH METHODS OR MEANS AS WILL NOT CAUSE THE INTERRUPTION OF OR INTERFERENCE WITH THE WORK OF ANY OTHER CONTRACTOR, NOR WITH THE NORMAL ROUTINE ACTIVITIES AT THE FACILITY.</p> <p>1.2 EQUIPMENT</p> <p>A. THE CONTRACTOR SHALL FURNISH TOOLS, APPARATUS AND APPLIANCES AND POWER FOR SAME, AND SIMILAR WORK OR MATERIAL NECESSARY TO INSURE CONVENIENCE AND SAFETY IN THE EXECUTION OF THE CONTRACTOR EXCEPT WHERE THIS IS IDENTIFIED IN ANY SPECIFICATION SECTION. ALL SUCH ITEMS SHALL MEET THE APPROVAL OF THE BUILDING OWNERS' TECHNICAL REPRESENTATIVE BUT RESPONSIBILITY FOR DESIGN, STRENGTH AND SAFETY SHALL REMAIN WITH THE CONTRACTOR. ALL SUCH ITEMS SHALL COMPLY WITH EPA AND OSHA REGULATIONS AND APPLICABLE CODES AND STATUTES.</p> <p>1.3 TEMPORARY CONTROLS</p> <p>A. IF THE CONTRACTOR LOCATES MATERIAL THAT IS BELIEVED TO BE A REGULATED OR HAZARDOUS SUBSTANCE DURING PERFORMANCE OF PROJECT WORK, WHICH HAS NOT BEEN PREVIOUSLY IDENTIFIED IN THIS PLAN, SHE/H HE SHALL NOTIFY THE BUILDING OWNERS' TECHNICAL REPRESENTATIVE. NO WORK</p>  |  |

- B. THE CONTRACTOR SHALL TAKE ALL APPROPRIATE SAFETY AND HEALTH MEASURES IN PERFORMING WORK UNDER THIS CONTRACT. THE CONTRACTOR IS SUBJECT TO APPLICABLE FEDERAL AND STATE LAWS, REGULATIONS, ORDINANCES, CODES AND ORDERS RELATING TO SAFETY AND HEALTH IN EFFECT ON THE DATE OF THIS CONTRACT. CONTRACTOR TO SUBMIT FULLY EXECUTED WASTE MANIFESTS FOR PAYMENT REQUISITION.
- 1.4 DESCRIPTION OF WORK
- THE FOLLOWING DETAILS ACTIVITIES TO BE PERFORMED DURING THE COMPLETION OF THE ABOVE STIPULATED TASKS AND MATERIALS IDENTIFIED. REFER TO ENVIROMED INSPECTION REPORT LEAD & OTHER HAZARDOUS MATERIALS, ISSUE DATE APRIL 2, 2020.
- LOWER AND UPPER LEVEL TOILET ROOMS
1. FLUORESCENT LIGHT BULBS  
THE CONTRACTOR SHALL DISMANTLE, PACKAGE, TRANSPORT AND DISPOSE OF APPROXIMATELY 20 FLUORESCENT LIGHT BULBS. THE LIGHT BULBS CONTAIN MERCURY WITHIN THE GLASS BULBS, WHICH SHALL BE PACKAGED, LABELED, MARKED AND PLACARDED IN ACCORDANCE WITH 49 CFR PARTS 172-180 AND DISPOSED OF AS UNIVERSAL WASTE IN ACCORDANCE WITH 40 CFR 273.4.
  2. PCB CONTAINING BALLASTS  
THE CONTRACTOR SHALL DISMANTLE, PACKAGE, TRANSPORT AND DISPOSE OF APPROXIMATELY 20 ASSOCIATED PCB CONTAINING BALLASTS. THE BALLASTS CONTAIN PCBs, WHICH SHALL BE PACKAGED, LABELED, MARKED AND PLACARDED IN ACCORDANCE WITH 49 CFR PARTS 172-180 AND DISPOSED OF IN ACCORDANCE WITH 40 CFR 273.4.
  3. THE CONTRACTOR SHALL PROVIDE INVENTORY ALONG WITH WASTE MANIFEST DOCUMENTATION TO OWNER FOR FINAL PAYMENT REQUISITION.

## 20. LEAD COMPLIANCE IN CONSTRUCTION

## GENERAL

- A. SCOPE: THIS SECTION GOVERNS CONSTRUCTION WORK ACTIVITIES ASSOCIATED WITH RENOVATION OR DEMOLITION OF WORK THAT MAY DISTURB LEAD-BASED PAINT ON BUILDING COMPONENTS. THIS INCLUDES COMPONENT REMOVAL FOR RECYCLING OF METAL BUILDING COMPONENTS WITH LEAD CONTAINING PAINT. THE RECYCLING OF SCRAP METAL (REGARDELESS OF LEAD PAINT CONCENTRATION) IS EXEMPT FROM USEPA, RCRA AND CTEDEP HAZARDOUS WASTE REGULATIONS.
- B. THE INTENT OF THIS SECTION IS TO ASSIST THE CONTRACTOR IN COMPLYING WITH THE OSHA CONSTRUCTION INDUSTRY STANDARD FOR LEAD (29 CFR PART 1926.62) WHEN CONDUCTING CONSTRUCTION ACTIVITIES.

## SUBMITTALS

- A. PROVIDE NAMES OF COMPETENT PERSON, FOREMAN AND WORKERS PROPOSED TO BE USED FOR THIS PROJECT AND CURRENT YEAR TO DATE OSHA LEAD AWARENESS TRAINING CERTIFICATIONS.
- B. SCRAP METAL RECYCLING FACILITY – PROVIDE PROPOSED NAME AND ADDRESS OF THE PROPOSED SCRAP METAL RECYCLING FACILITY AND TRANSPORTER.
- C. HAZARDOUS WASTE DISPOSAL FACILITY – PROVIDE PROPOSED NAME AND ADDRESS OF THE PROPOSED HAZARDOUS WASTE DISPOSAL FACILITY AND TRANSPORTER.

## IDENTIFICATION

LEAD PAINT IN THE RENOVATION AREAS FOR THIS PROJECT ARE IDENTIFIED IN THE ENVIROMED SERVICES, APRIL 2, 2020 LEAD INSPECTION REPORT.

LEAD PAINT IS IDENTIFIED ON THE FOLLOWING COMPONENTS AND LOCATIONS

UPPER LEVEL - MEN'S LAVATORY

WHITE PAINT ON THE METAL RADIATOR PANEL LOCATED ON LOWER WALL

UNDER WINDOW

UPPER LEVEL - WOMEN'S LAVATORY

GRAY PAINT ON THE METAL RADIATOR PANEL LOCATED ON LOWER WALL

UNDER WINDOW

- A. CONTRACTOR SHALL REMOVE RADIATOR COVER PANEL INTACT, BY REMOVING SCREWS/ FASTENERS AND SEGREGATE METAL PANEL FOR METAL RECYCLING AND IN ACCORDANCE WITH CONNECTICUT'S SOLID WASTE MANAGEMENT PLAN.
- DEMOLITION RESTRICTIONS

DEMOLITION RESTRICTIONS

- A. COORDINATE WORK AND ACCESS TO THE BUILDING WITH THE BUILDING OWNER OR DESIGNATED REPRESENTATIVE. THE CONTRACTOR SHALL SUBMIT A SCHEDULE OF WORK AND SHALL BE APPROVED BY THE BUILDING OWNER PRIOR TO THE START OF WORK.
- B. PROHIBITED WORK METHODS INCLUDE: MECHANICAL GRINDING, SANDING, CUTTING OR HEAT REMOVAL OF LEAD PAINT OR CHEMICAL STRIPPING. THESE WORK ACTIVITIES REQUIRE ADDITIONAL LEVELS OF WORKER TRAINING, LICENSURE AND WORKER QUALIFICATIONS INCLUDING MEDICAL SURVEILLANCE AND RESPIRATOR FIT TESTING.

## WORKER PROTECTION PROCEDURES

- A. WORKERS SHALL NOT EAT, DRINK, SMOKE, OR CHEW GUM OR TOBACCO WHILE IN ANY REGULATED AREA.

## WORKER TRAINING REQUIREMENTS

- A. ALL WORKERS THAT WILL CONTACT PAINTED SURFACES SHALL RECEIVE LEAD AWARENESS TRAINING MEETING THE REQUIREMENTS OF 29 CFR 1926.62. DOCUMENTATION OF SAID TRAINING IS TO BE KEPT ON-SITE IN A BINDER FOR REVIEW. THE AWARENESS TRAINING INITIAL OR REFRESHER MUST BE DATED WITHIN ONE YEAR TO DATE.

COMPETENT PERSON

- A. MAINTAIN A COMPETENT PERSON ON SITE FOR THE DURATION OF ANY DEMOLITION ACTIVITIES THAT INVOLVE DISTURBING LEAD CONTAMINATED BUILDING COMPONENTS.

## SCOPE VERIFICATIONS

- A. EVERY ATTEMPT HAS BEEN MADE TO ACCURATELY DEPICT THE EXTENT OF THE MATERIAL AND SCOPE OF WORK IN THIS SPECIFICATION. THE BIDDER SHALL VISIT THE WORK SITE TO DETERMINE EXACT QUANTITIES AND THE DEGREE OF DIFFICULTY OF WORKING IN THESE AREAS.
- B. A THIRD PARTY LEAD CONSULTANT MAY BE RETAINED BY OWNER OR OWNERS REPRESENTATIVE TO CONDUCT ON SITE MONITORING OF THE CONTRACTORS WORK TO VERIFY LEAD SAFE WORK PRACTICES ARE BEING USED.

## PART 2 EXECUTION

- A. ISOLATION OF THE WORK AREA FROM THE NON-WORK AREA  
ISOLATE EACH LEAD WORK AREA WITH WARNING CAUTION SIGNAGE AND  
BARRIER TAPE. PROVIDE SINGLE LAYER OF 6 MIL POLYETHYLENE GROUND  
COVER UNDER EACH RADIATOR EXTENDING MINIMUM OF 4 FEET FROM BASE  
OF RADIATOR.
- B. DISPOSABLE PPE  
WEAR DISPOSABLE OUTER LAYER IMPERMEABLE RUBBER/ NITRILE GLOVES AND  
TYVEC OR RUBBER SHOE COVERS TO PREVENT THE TRACKING OF DUST FROM  
THE WORK AREA AND TO PROTECT YOUR SHOES FROM EXPOSURE TO DUST.
- C. RADIATOR COVER/ PANEL COMPONENT REMOVAL  
UNFASTEN SCREWS USING HAND TOOLS TO REMOVE EACH RADIATOR COVER/  
PANEL INTACT.  
PLACE RADIATOR COVER PANEL INTO WHEELED CART LINED WITH SINGLE  
LAYER OF 6 MIL POLYETHYLENE SHEETING. CLEAN UP ANY RESIDUE USING  
DETERGENT SUCH AS TRI SODIUM PHOSPHATE (TSP) 5 PERCENT SOLUTION.  
REMOVE CLEAN PLY DROP CLOTH FOR DISPOSAL AS CONSTRUCTION WASTE.  
ANY CONTAMINATED PPE, RAGS, MOPS, PAINT CHIPS, RESIDUE OR POLY  
SHEETING WITH VISIBLE RESIDUE SHALL BE PLACED INTO AN IMPERMEABLE  
WASTE CONTAINER WITH PROPER WASTE LABELING FOR DISPOSAL AS LEAD  
WASTE.  
CONTRACTOR RESPONSIBLE FOR PROPER HANDLING, SHIPPING AND RECYCLING  
OF METAL PANELS AT AN APPROVED METAL RECYCLING MANAGEMENT FACILITY  
AND PROVIDE MANIFEST TO CLIENT FOR WORK COMPLETION.  
CONTRACTOR RESPONSIBLE FOR PROVIDING WASTE MANIFEST FOR ANY  
GENERATED HAZARDOUS WASTE WITHIN 90 DAYS FROM COMPLETION OF WORK.
- COMPLETION OF WORK – VISUAL INSPECTION

## 2.2 COMPLETION OF WORK – VISUAL INSPECTION

- A. A THIRD PARTY LEAD CONSULTANT MAY BE RETAINED BY THE OWNER OR OWNERS REPRESENTATIVE TO CONDUCT A VISUAL INSPECTION OF THE WORK AREAS IN ORDER TO DOCUMENT THAT ALL SURFACES HAVE BEEN MAINTAINED AS FREE AS PRACTICABLE OF ACCUMULATIONS OF LEAD IN ACCORDANCE WITH 29 CFR 192.62(h). IF VISIBLE ACCUMULATIONS OF WASTE, DEBRIS, LEAD PAINT CHIPS OR DUST ARE FOUND IN THE WORK AREA, THE CONTRACTOR SHALL REPEAT THE CLEANING, AT THE CONTRACTOR'S EXPENSE, UNTIL THE AREA IS IN COMPLIANCE. THE VISUAL INSPECTION WILL DETECT INCOMPLETE WORK, DAMAGE CAUSED BY THE ABATEMENT ACTIVITY, AND INADEQUATE CLEAN-UP OF THE WORK SITE.

## DEFINITIONS

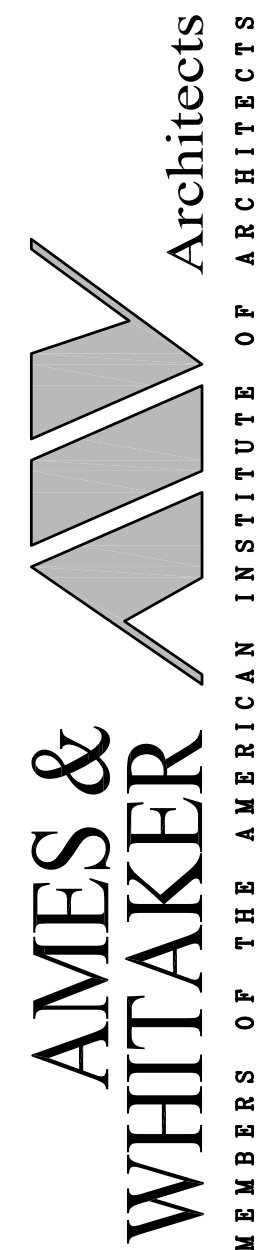
- B. COMPETENT PERSON: AN INDIVIDUAL CAPABLE OF IDENTIFYING EXISTING LEAD HAZARDS AND TAKING CORRECTIVE MEASURES TO ELIMINATE THEM. THE DUTIES OF THE COMPETENT PERSON INCLUDE AT LEAST THE FOLLOWING: CONTROLLING ENTRY TO AND EXIT FROM THE DEMOLITION/ DEMOLITION AREA, ENSURING CONTRACT COMPLIANCE, CONDUCTING PERSONAL AIR MONITORING, ENSURING THAT ALL EMPLOYEES WORKING WITHIN THE DEMOLITION/DEMOLITION AREA HAVE LEAD AWARENESS TRAINING, AND ENSURING THAT DEMOLITION WORKERS USE THE HAND WASHING FACILITIES.
- C. LEAD: METALLIC LEAD, INORGANIC LEAD COMPOUNDS AND ORGANIC LEAD SOAPS. EXCLUDED FROM THIS DEFINITION ARE ALL OTHER ORGANIC LEAD COMPOUNDS.
- D. X-RAY FLUORESCENCE (XRF) ANALYZER: AN ANALYTICAL INSTRUMENT WHICH MEASURES LEAD CONCENTRATION OF DRIED PAINT ON SURFACES IN MILLIGRAMS PER SQUARE CENTIMETER ( $\text{mg}/\text{cm}^2$ ) USING A RADIOACTIVE SOURCE WITHIN THE INSTRUMENT.
- E. LEAD CONTAINING PAINT: PAINT FOUND TO CONTAIN ANY DETECTABLE LEVEL OF LEAD.
- F. LEAD BASED PAINT: PAINT FOUND TO CONTAIN GREATER THAN OR EQUAL TO 1.0 MILLIGRAMS OF LEAD PER SQUARE CENTIMETER OF SURFACE AREA BY XRF TESTING OR 0.5 PERCENT LEAD BY WEIGHT BY ATOMIC ABSORPTION (AA) SPECTROPHOTOMETER TESTING.
- G. ACTION LEVEL: EMPLOYEE EXPOSURE, WITHOUT REGARD TO THE USE OF RESPIRATORS, TO AN AIRBORNE CONCENTRATION OF LEAD OF 30 MICROGRAMS PER CUBIC METER ( $\mu\text{g}/\text{m}^3$ ) CALCULATED AS AN EIGHT HOUR TIME WEIGHTED AVERAGE.
- H. PERMISSIBLE EXPOSURE LIMIT (PEL): FIFTY (50) MICROGRAMS OF LEAD PER CUBIC METER ( $\mu\text{g}/\text{m}^3$ ) OF AIR AVERAGED OVER AN 8 HOUR PERIOD AS DETERMINED BY 29 CFR 1926.62.
- I. PERSONAL MONITORING: SAMPLING OF LEAD CONCENTRATIONS WITHIN THE BREATHING ZONE OF A WORKER TO DETERMINE THE 8-HOUR TIME WEIGHTED AVERAGE CONCENTRATION IN ACCORDANCE WITH 29 CFR 1926.62. SAMPLES SHALL BE REPRESENTATIVE OF THE EMPLOYEE'S WORK TASKS.
- J. TSP: ACRONYM FOR TRISODIUM PHOSPHATE
- K. VISIBLE RESIDUE: ANY PAINT DEBRIS OR CHIPS ON SURFACES IN AREAS WITHIN THE WORK AREA WHERE LEAD ABATEMENT HAS TAKEN PLACE AND WHICH IS VISIBLE TO THE UN AIDED EYE.
- L. TOXICITY CHARACTERISTICS LEACHING PROCEDURE (TCLP): TOXICITY CHARACTERISTICS LEACHING PROCEDURE UTILIZING EPA TEST METHOD SW-846, METHOD 1311.
- M. CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (CESQG): GENERATES LESS THAN 100 KILOGRAMS (kg) PER MONTH OF HAZARDOUS WASTE; ACCUMULATES NO GREATER THAN 1000 (kg) ON-SITE AT ANY ONE TIME.
- N. SMALL QUANTITY GENERATOR (SQG): GENERATES BETWEEN 100 (kg) AND 1000 (kg) PER MONTH OF HAZARDOUS WASTE; ACCUMULATES NO GREATER THAN 1000 KILOGRAMS (kg) OF HAZARDOUS WASTE ON-SITE AT ANY ONE TIME; STORES WASTE FOR NO GREATER THAN 180 DAYS.
- O. LARGE QUANTITY GENERATOR (LQG): GENERATES GREATER THAN 1000 (kg) PER MONTH OF HAZARDOUS WASTE OR ACCUMULATES MORE THAN 1000 (kg) ON SITE AT ANY ONE TIME; STORES WASTE FOR NO GREATER THAN 90 DAYS.
- P. TREATMENT, STORAGE, AND DISPOSAL FACILITY: TREATS OR DISPOSES OF HAZARDOUS WASTE ON SITE, RECEIVES HAZARDOUS WASTE FROM OFF SITE, OR STORES HAZARDOUS WASTE IN EXCESS OF THE LIMITS LISTED FOR (SQG) OR (LQG) STATUS.
- Q. EPA IDENTIFICATION NUMBER: THE UNIQUE NUMBER ASSIGNED BY EPA TO EACH GENERATOR OR TRANSPORTER OF HAZARDOUS WASTE AND EACH TREATMENT, STORAGE OR DISPOSAL FACILITY.

**SHEPARDSON COMMUNITY CENTER**

## ADA COMPLIANCE

**MIDDLEBURY, CONNECTICUT**

**SPECIFICATIONS (INCLUDING HAZARDOUS MATERIALS)**



31 Liberty Street, Suite 208 Southington, Connecticut 06489 (860) 621-8944 Fax (860) 621-0957

**Fax (860) 621-0957**

**(860) 621-8944**

**Southington, Connecticut 06489**

331 Liberty Street, Suite 208

PROJECT NO.

2019.04

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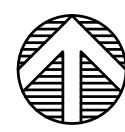
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PROJECT SCOPE: PROVIDE COMPLETE AND OPERATIONAL SYSTEMS AS OUTLINED IN THE CONTRACT DOCUMENTS INCLUDING ALL NECESSARY MATERIAL, LABOR, AND EQUIPMENT.

2. CONSTRUCTION/CONTRACT DOCUMENTS: CONTRACT DOCUMENTS INCLUDING PLANS, DETAILS, AND ONE-LINE DIAGRAMS SHOW THE GENERAL LOCATION AND ARRANGEMENT OF THE WORK. THESE DOCUMENTS ARE DIAGRAMMATIC AND DO NOT SHOW ALL CONNECTORS, FITTINGS, HANGERS, AND ADDITIONAL ELEMENTS WHICH THE CONTRACTOR MUST PROVIDE TO COMPLETE THE SYSTEMS AS OUTLINED IN THE CONTRACT DOCUMENTS. PLANS AND DETAILS DO NOT SHOW ALL INTERFERENCE'S AND CONDITIONS, VISIBLE AND/OR HIDDEN, THAT MAY EXIST, THUS REQUIRING THE CONTRACTOR TO INSPECT AND SURVEY THE PROJECT AREA BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BY FIELD MEASUREMENTS.

3. COORDINATION:

- A) THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH ALL CONSTRUCTION DOCUMENTS AND OTHER TRADES ASSOCIATED WITH THE PROJECT.
- B) THE CONTRACTOR SHALL VISIT THE SITE OF WORK AND FAMILIARIZE HIMSELF WITH ALL AVAILABLE INFORMATION CONCERNING THE NATURE OF THE INSTALLATION AND CONDITIONS.
- C) BEFORE SELECTING MATERIAL, EQUIPMENT AND PROCEEDING WITH WORK, INSPECT AREAS WHERE MATERIAL AND EQUIPMENT ARE TO BE INSTALLED TO INSURE SUITABILITY, AND CHECK NEEDED SPACE FOR PLACEMENT, CLEARANCES AND INTERCONNECTIONS.
- D) PLANS AND DETAILS DO NOT SHOW ALL INTERFERENCE'S AND CONDITIONS, VISIBLE AND/OR HIDDEN THAT MAY EXIST; THUS, REQUIRING THE CONTRACTOR TO INSPECT AND SURVEY THE SPACE BEFORE PERFORMING THE WORK.
- E) BEFORE CUTTING OR DRILLING INTO BUILDING ELEMENTS INSPECT AND LAYOUT WORK TO AVOID DAMAGING STRUCTURAL ELEMENTS AND BUILDING UTILITIES.
- F) ARRANGE FOR CHASES, SLOTS, AND OPENINGS IN OTHER BUILDING COMPONENTS DURING PROCESS OF CONSTRUCTION, TO ALLOW FOR PROPER SYSTEM INSTALLATIONS.
- G) COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SLEEVES TO BE SET IN POURED IN PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS, AS THEY ARE CONSTRUCTED.
- H) SEQUENCE, COORDINATE, AND INTEGRATE INSTALLATIONS OF MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF THE WORK. GIVE PARTICULAR ATTENTION TO LARGE EQUIPMENT REQUIRING POSITIONING PRIOR TO CLOSING IN THE BUILDING.
- I) FAILURE OF THE CONTRACTOR TO ACQUAINT HIMSELF WITH ALL AVAILABLE INFORMATION CONCERNING THE ABOVE CONDITIONS AND NOT PERFORMING PROPER COORDINATION WILL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR ESTIMATING THE DIFFICULTIES AND COSTS FOR SUCCESSFULLY PERFORMING THE COMPLETE WORK UNDER THIS PROJECT.

4. SHUTDOWNS: WRITTEN REQUESTS FOR APPROVAL FOR PLANNED SHUTDOWNS OR INTERRUPTION OF OWNER'S UTILITIES, SYSTEMS AND EQUIPMENT SHALL BE MADE 72 HOURS PRIOR TO THE START OF THE REQUESTED SHUTDOWN PERIOD.

5. CODES AND STANDARDS: THE CONTRACTOR SHALL FOLLOW ALL FEDERAL, STATE AND LOCAL CODES THAT HAVE JURISDICTION WHERE THE WORK IS BEING PERFORMED; THROUGHOUT THE CONTRACT DOCUMENTS CERTAIN CODES AND STANDARDS ARE REFERENCED, THE CONTRACTOR SHALL USE THE LATEST VERSIONS OF CODES AND STANDARDS REFERENCED UNLESS OTHERWISE NOTED. IF THE CONTRACTOR IS NOT FAMILIAR WITH THE REFERENCED STANDARD THEY SHALL CONTACT THE OWNER'S REPRESENTATIVE FOR DIRECTION.

6. PERMITS: THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE FOR ALL REQUIRED INSPECTIONS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL GOVERNING AUTHORITIES.

7. WORKMAN: ALL WORK SHALL BE DONE WITH LICENSED WORKMEN IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL GOVERNING AUTHORITIES CODES AND REGULATIONS.

8. SUBMITTALS: THE CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL EQUIPMENT AND MATERIALS BEING PROVIDED BEFORE SUCH EQUIPMENT AND MATERIALS ARE PURCHASED AND INSTALLED. THE SUBMITTALS SHALL BE REVIEWED AND RETURNED BY THE OWNER'S REPRESENTATIVE WITH APPROPRIATE COMMENTS. SUBMITTALS SHALL BE SUBMITTED ELECTRONICALLY IN PDF FORMAT AND WILL BE RETURNED WITH COMMENTS TO THE CONTRACTOR IN PDF FORMAT.

9. AS-BUILT DOCUMENTATION: THE CONTRACTOR SHALL PROVIDE ONE MARK-UP SET OF CONSTRUCTION DOCUMENTS SHOWING FINAL AS-BUILT CONDITIONS. DOCUMENTS SHALL CLEARLY SHOW THE CHANGES MADE TO THE INSTALLED SYSTEMS.

10. EQUIPMENT WARRANTIES, MAINTENANCE MANUALS AND INSTALLATION MANUALS: TURN OVER TO THE OWNER ALL MANUFACTURERS' WARRANTIES, MAINTENANCE MANUALS, AND INSTALLATION MANUALS FOR EQUIPMENT AND MATERIALS PROVIDED.

11. PHOTOGRAPHS: PHOTOGRAPHS ARE PROVIDED TO SHOW CURRENT CONDITION OF BUILDING SYSTEMS TO ASSIST THE CONTRACTOR. PHOTOGRAPHS DO NOT SHOW ALL AREAS OF THE BUILDING OR ALL SYSTEM CONDITIONS, THUS REQUIRING THE CONTRACTOR TO VISIT THE SITE BEFORE PERFORMING WORK. PHOTOGRAPHS ARE NOT INTENDED TO SHOW SCOPE OF WORK. PLANS, NOTES, SPECIFICATIONS AND OTHER BID DOCUMENTS INDICATE SCOPE OF WORK.

12. TERMINOLOGY:

A) THE TERM "INDICATED" SHALL MEAN, "AS SHOWN ON CONTRACT DOCUMENTS"

(SPECIFICATIONS, DRAWINGS, AND RELATED ATTACHMENTS)".

B) THE TERM "PROVIDE" SHALL MEAN, "TO FURNISH, INSTALL, AND CONNECT COMPLETELY".

C) THE TERM "COORDINATE" SHALL MEAN ONE OR MORE OF THE FOLLOWING: "TO MANAGE, INTERFACE, COMMUNICATE, MAKE ARRANGEMENT, BRING INTO ORDER, ADMINISTER AND HANDLE COMPLETELY".

D) THE TERM "INTERIOR" IS AN INTERIOR LOCATION WHERE ITS ENVIRONMENT IS HEATED AND/OR AIR CONDITIONED AND NOT SUBJECT TO OUTSIDE WEATHER CONDITIONS.

E) THE TERM "EXTERIOR" IS ALL LOCATIONS, WHICH ARE NOT INTERIOR, OR UNDERGROUND.

F) THE TERM "INTERIOR FINISHED SPACE" IS INTERIOR SPACES, WHICH ARE USED FOR OFFICES, CORRIDORS, LOBBIES, TOILETS, STORAGE AND FILING ROOMS, LOUNGES, MECHANICAL ROOMS, ELECTRICAL ROOMS, ETC.

DEMOLITION: DEMOLITION OF INDICATED ITEMS INCLUDES THE REMOVAL AND PROPER DISPOSAL OF THOSE ITEMS AND ALL ASSOCIATED PIPING, DUCTWORK, WIRING AND HANGERS. ELECTRICAL BRANCH, CONTROL, TELEPHONE, AND ALARM WIRING SHALL BE REMOVED BACK TO PANELBOARDS OR RELATED SYSTEM PANELS OR BACKBOARDS.

EQUIPMENT AND MATERIAL INSTALLATIONS:

A) ALL EQUIPMENT AND MATERIALS SHALL BE LABELED AND LISTED, AND INSTALLED IN ACCORDANCE WITH THEIR LISTING AND MANUFACTURER'S REQUIREMENTS.

B) WHEN A MANUFACTURER RECOMMENDS AN OPTION OR ACCESSORY ITEM FOR THE INSTALLED EQUIPMENT, OPERATION, OR ENVIRONMENT THAT IS TO BE EXPERIENCED, SUCH ITEM SHALL BE SUPPLIED AT NO ADDITIONAL COST TO THE OWNER.

C) IF AN EQUIPMENT MANUFACTURER REQUIRES LARGER CAPACITY, CIRCUITRY AND/OR EQUIPMENT, THE CONTRACTOR SHALL PROVIDE SUCH CAPACITY AND/OR EQUIPMENT UNDER HIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.

D) LOCATE ALL EQUIPMENT, WHICH REQUIRES SERVICING IN FULLY ACCESSIBLE POSITIONS. IF REQUIRED FOR BETTER ACCESSIBILITY, FURNISH ACCESS DOORS FOR THAT PURPOSE.

E) MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ALLOW FOR BETTER ACCESSIBILITY.

F) ALL WORK IN INTERIOR FINISHED SPACES SHALL BE CONCEALED BEHIND WALLS, ABOVE CEILINGS OR HUNG CEILINGS, OR UNDER THE FLOOR. PROVIDE ALL NECESSARY CUTTING, PATCHING, REPAINTING AND/OR REPLACEMENT OF CEILING TILES AS REQUIRED TO PERFORM WORK.

G) INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT TO CONFORM WITH APPROVED SUBMITTAL DATA, INCLUDING COORDINATION DRAWINGS (IF REQUIRED), TO GREATEST EXTENT POSSIBLE. CONFORM TO ARRANGEMENTS INDICATED BY THE CONTRACT DOCUMENTS, RECOGNIZING THAT PORTIONS OF THE WORK ARE SHOWN ONLY IN DIAGRAMMATIC FORM. WHERE COORDINATION REQUIREMENTS CONFLICT WITH INDIVIDUAL SYSTEM REQUIREMENTS, REFER CONFLICT TO THE ARCHITECT/ENGINEER.

H) INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT LEVEL AND PLUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS, WHERE INSTALLED EXPOSED IN FINISHED SPACES

I) INSTALL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE, AND REPAIR OR REPLACEMENT OF EQUIPMENT COMPONENTS. AS MUCH AS PRACTICAL, CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS.

J) INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT GIVING RIGHT OF WAY PRIORITY TO SYSTEMS REQUIRED TO BE INSTALLED AT A SPECIFIED SLOPE.

K) WHERE MOUNTING HEIGHTS ARE NOT DETAILED OR DIMENSIONED, INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT TO PROVIDE THE MAXIMUM HEADROOM POSSIBLE.

FIRE RATINGS: THE CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS FOR FIRE SEPARATION AND FIRE RATED ASSEMBLIES. ALL PIPING, DUCTWORK AND CONDUITS PASSING THROUGH OR PENETRATING WALLS, CEILINGS AND FLOORS SHALL BE PROVIDED WITH A UL LISTED FIRE STOPPING ASSEMBLY. UL LISTED FIRE STOPPING ASSEMBLIES SHALL BE SUITABLE FOR THE CONDITIONS ENCOUNTERED AND SHALL BE RATED EQUAL TO THE RATING OF THE WALL, CEILING OR FLOOR. REVIEW FIRE RATED ASSEMBLIES THAT ALLOW PENETRATIONS OF ITEMS SUCH AS OUTLET BOXES AND CONDUITS THAT DO NOT REQUIRE FIRE STOPPING. SPACE AND POSITION THESE DEVICES AS ALLOWED PER THE ASSEMBLY'S UL RATING.

MANUFACTURER'S NAMEPLATES: EACH ITEM OF EQUIPMENT SHALL HAVE A NAMEPLATE BEARING THE MANUFACTURER'S NAME, ADDRESS, MODEL NUMBER, AND SERIAL NUMBER SECURELY AFFIXED IN A CONSPICUOUS PLACE; THE NAMEPLATE OF THE DISTRIBUTING AGENT WILL NOT BE ACCEPTABLE.

# GENERAL 1.1 SUMMARY: THIS SECTION INCLUDES MATERIAL REQUIREMENTS AND INSTALLATION REQUIREMENTS FOR PLUMBING SYSTEMS. THE FOLLOWING ITEMS ARE INCLUDED IN THIS SECTION: DOMESTIC WATER DISTRIBUTION SYSTEMS, DRAINAGE AND VENT SYSTEMS, PLUMBING FIXTURES AND EQUIPMENT, SUPPORTS AND ANCHORS, PLUMBING SYSTEM INSULATION AND JOINT SEALERS. 1.2 REGULATORY REQUIREMENTS: COMPLY WITH THE PROVISIONS OF THE FOLLOWING: 2015 INTERNATIONAL MECHANICAL CODE, 2015 INTERNATIONAL PLUMBING CODE, CONNECTICUT BUILDING CODE, CONNECTICUT LIFE SAFETY CODE AND NFPA NATIONAL ELECTRIC CODE. 2. PRODUCTS 2.1 DOMESTIC WATER DISTRIBUTION SYSTEMS A. PIPE, TUBE AND FITTINGS: REFER TO PART 3 FOR IDENTIFICATION OF SYSTEMS WHERE THE BELOW MATERIALS ARE USED. 1. COPPER TUBE: ASTM B 88, TYPE L WATER TUBE, DRAWN TEMPER. 2. COPPER TUBE: ASTM B 88, TYPE K WATER TUBE, ANNEALED TEMPER. 3. WROUGHT COPPER SOLDER--JOINT FITTINGS: ANSI B16.22, STREAMLINED PATTERN. 4. BRONZE FLANGES: ASTM B14, CS 150, RAISED GROUND FACE, BOLT HOLES SPOT FACED. 5. UNIONS: ASTM B16.39, MALLEABLE IRON, CLASS 150, HEXAGONAL STOCK, WITH BALL--AND--SOCKET JOINTS, METAL--TO--METAL BRONZE SEATING SURFACES, FEMALE THREADED ENDS. THREADS SHALL CONFORM TO ASTM B10.1. 6. SOLDER FILLER METAL: ASTM B 32, 95-5 TIN--ANTIMONY. B. VALVES AND SPECIALTIES: 1. BALL VALVES, 1-1/2" AND SMALLER: RATED FOR 150 PSI SATURATED STEAM PRESSURE, 400 PSI WOG PRESSURE; TWO-PIECE CONSTRUCTION; WITH BRONZE BODY CONFORMING TO ASTM B 62, STANDARD (OR REGULAR) PORT, CHROME--PLATED BRASS BALL, REPLACEABLE "TEFLON" OR "TIF" SEATS AND SEALS, BLOWOUT--PROOF STEM, AND VINYL--COVERED STEEL HANDLE. 2.2 SANITARY DRAINAGE AND VENT SYSTEMS A. ABOVE GROUND SANITARY DRAINAGE AND VENT PIPE AND FITTINGS: HUBLESS CAST IRON PIPE AND FITTINGS: PIPE & FITTINGS SHALL CONFORM WITH ASTM A 74 PIPE. JOINT COUPLINGS SHALL CONFORM WITH ASTM C 1277. B. UNDERGROUND BUILDING DRAIN PIPE AND FITTINGS: HUB & SPIGOT CAST IRON SEWER PIPE AND FITTINGS: CONFORM TO ASTM A 74. JOINT COUPLINGS SHALL CONFORM WITH ASTM C 564. 2.3 PLUMBING FIXTURES AND EQUIPMENT A. PROVIDE PLUMBING FIXTURES AND TRIM, FITTINGS, OTHER COMPONENTS, AND SUPPORTS AS INDICATED ON THE CONTRACT DRAWINGS. 2.4 SUPPORTS AND ANCHORS A. HANGERS AND SUPPORT COMPONENTS SHALL BE FACTORY FABRICATED OF MATERIALS, DESIGN, AND MANUFACTURER COMPLYING WITH MSS SP--58. COMPONENTS SHALL HAVE GALVANIZED COATINGS WHERE INSTALLED FOR PIPING AND EQUIPMENT THAT WILL NOT HAVE FIELD--APPLIED FINISH. PIPE ATTACHMENTS SHALL HAVE NONMETALLIC COATING FOR ELECTROLYTIC PROTECTION WHERE ATTACHMENTS ARE IN DIRECT CONTACT WITH COPPER TUBING. 2.5 PLUMBING SYSTEM INSULATION A. INSULATION GENERAL: CONFORM TO THE FOLLOWING CHARACTERISTICS FOR INSULATION INCLUDING FACINGS, CEMENTS, AND ADHESIVES, WHEN TESTED ACCORDING TO ASTM E 84, BY UL OR OTHER TESTING OR INSPECTING ORGANIZATION ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION. LABEL INSULATION WITH APPROPRIATE MARKINGS OF TESTING LABORATORY. INTERIOR INSULATION: FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS. EXTERIOR INSULATION: FLAME SPREAD RATING OF 75 OR LESS AND A SMOKE DEVELOPED RATING OF 150 OR LESS. B. PREFORMED GLASS FIBER PIPE INSULATION: ASTM C 547, CLASS 1, RIGID PIPE INSULATION, JACKETED. INORGANIC GLASS FIBERS, BONDED WITH A THERMOSETTING RESIN. JACKET: ALL--PURPOSE, FIBER--APPLIED, REINFORCED GLASS--FIBER--REINFORCED, FLAME--RETARDANT KRAFT PAPER AND ALUMINUM FOIL HAVING SELF--SEALING LAP. PVC FITTING COVERS: FACTORY--FABRICATED FITTING COVERS MANUFACTURED FROM 20--MIL--THICK, HIGH--IMPACT, ULTRA--VIOLET--RESISTANT PVC. 2.6 JOINT SEALERS A. JOINT SEALER PRODUCTS SHALL BE TESTED IN ACCORDANCE WITH ASTM E-119, ASTM E-814 AND ASTM E-84. ALL PRODUCTS SHALL NOT CONTAIN ASBESTOS OR PCB'S. ALL JOINT SEALERS SHALL BE INSTALLED IN U.L. LISTED CONFIGURATIONS. 3. EXECUTION 3.1 INSTALLATION OF DOMESTIC WATER DISTRIBUTION SYSTEMS A. INSTALL TYPE L, DRAWN COPPER TUBE WITH WROUGHT COPPER FITTINGS AND SOLDER JOINTS FOR PIPE

A. ABOVE GROUND, WITHIN BUILDING: INSTALL TYPE K, ANNEALED TEMPER COPPER TUBE FOR PIPE, WITH MINIMUM NUMBER OF JOINTS, BELOW GROUND.

B. FIRE BARRIER PENETRATIONS: WHERE PIPES PASS THROUGH FIRE-RATED WALLS, PARTITIONS, CEILINGS, AND FLOORS, MAINTAIN THE FIRE-RATED INTEGRITY.

C. TEST WATER DISTRIBUTION PIPING AS FOLLOWS: TEST FOR LEAKS AND DEFECTS ALL NEW WATER DISTRIBUTION PIPING SYSTEMS AND PARTS OF EXISTING SYSTEMS THAT HAVE BEEN ALTERED, EXTENDED OR REPAIRED. IF TESTING IS PERFORMED IN SEGMENTS, SUBMIT A SEPARATE REPORT FOR EACH TEST, COMPLETE WITH A DIAGRAM OF THE PORTION OF THE SYSTEM TESTED.

D. REPAIR ALL LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST SYSTEM OR PORTION THEREOF UNTIL SATISFACTORY RESULTS ARE OBTAINED.

E. CLEAN AND DISINFECT WATER DISTRIBUTION PIPING AS FOLLOWS: PURGE ALL NEW WATER DISTRIBUTION PIPING SYSTEMS AND PARTS OF EXISTING SYSTEMS THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED PRIOR TO USE. USE THE PURGING AND DISINFECTING PROCEDURE PROSCRIBED BY THE AUTHORITY HAVING JURISDICTION OR, IN CASE A METHOD IS NOT PRESCRIBED BY THAT AUTHORITY, THE PROCEDURE DESCRIBED IN EITHER AWWA C651, OR AWWA C652.

3.2 INSTALLATION OF SANITARY DRAINAGE AND VENT SYSTEMS

A. PREPARATION FOUNDATION FOR UNDERGROUND BUILDING DRAINS: GRADE TRENCH BOTTOMS TO PROVIDE A SMOOTH, FIRM, AND STABLE FOUNDATION, FREE FROM ROCK, THROUGHOUT THE LENGTH OF THE PIPE. REMOVE UNSTABLE, SOFT, AND UNSUITABLE MATERIALS AT THE SURFACE UPON WHICH PIPES ARE TO BE LAID, AND BACKFILL WITH CLEAN SAND OR PEA GRAVEL TO INDICATED INVERT ELEVATION. SHAPE BOTTOM OF TRENCH TO FIT BOTTOM OF PIPE TO 90-DEGREES (BOTTOM 1/4 OF THE CIRCUMFERENCE). FILL UNEVENNESS WITH TAMPED SAND BACKFILL. AT EACH PIPE JOINT DIG BELL HOLES TO RELIEVE THE BELL OF THE PIPE OF ALL LOADS, AND TO ENSURE CONTINUOUS BEARING OF THE PIPE BARREL ON THE FOUNDATION.

B. PIPE APPLICATIONS - ABOVE GROUND, WITHIN BUILDING: INSTALL PVC TYPE DWV PLASTIC PIPE AND FITTINGS.

C. PIPE APPLICATIONS - BELOW GROUND, WITHIN BUILDING: INSTALL PVC SEWER PIPE AND FITTINGS WITH SOLVENT CEMENTED JOINTS.

D. PIPE AND TUBE JOINT CONSTRUCTION: PVC DWV PIPE: JOINING AND INSTALLATION OF PVC DRAINAGE PIPE AND FITTINGS SHALL CONFORM TO ASTM D2665.

E. FIRE BARRIER PENETRATIONS: WHERE PIPES PASS THROUGH FIRE RATED WALLS, PARTITIONS, CEILINGS, AND FLOORS, MAINTAIN THE FIRE RATED INTEGRITY.

F. PIPING SYSTEM TEST: TEST DRAINAGE AND VENT SYSTEM IN ACCORDANCE WITH THE PROCEDURES OF THE AUTHORITY HAVING JURISDICTION. REPAIR ALL LEAKS AND DEFECTS USING NEW MATERIALS AND RETEST SYSTEM OR PORTION THEREOF UNTIL SATISFACTORY RESULTS ARE OBTAINED.

G. ADJUSTING AND CLEANING: CLEAN INTERIOR OF PIPING SYSTEM. REMOVE DIRT AND DEBRIS AS WORK PROGRESSES. CLEAN DRAIN STRAINERS, DOMES, AND TRAPS. REMOVE DIRT AND DEBRIS

3.3 INSTALLATION OF HANGERS AND SUPPORTS

GENERAL NOTE:  
CONTRACTOR SHALL VERIFY ALL PLUMBING FIXTURES, FITTINGS, FAUCETS, CONTROLS, ACCESSORIES, ETC. PRIOR TO ORDERING AND INSTALLATION.

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PROJECT TITLE  
**TOILET ROOM RENOVATIONS**  
SHEPARDSONS COMMUNITY CENTER  
1172 WHITEMORE ROAD, MIDDLEBURY, CT 06762

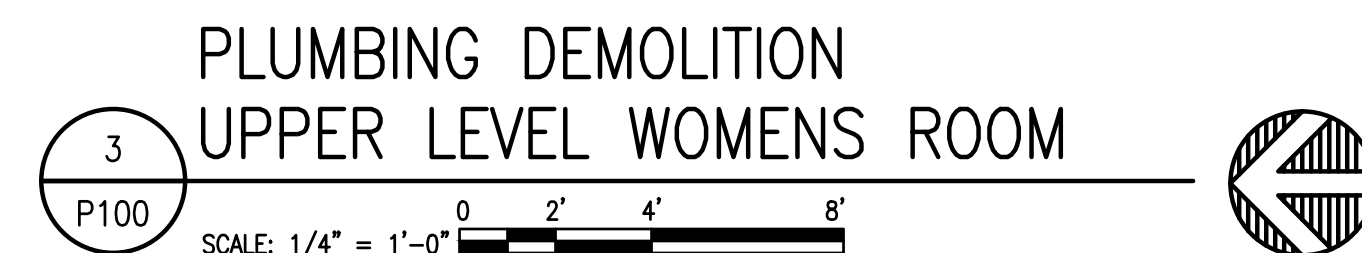
SHEET TITLE  
**PLUMBING NOTES & SYMBOLS**

REVISION	DATE	ITEM

PROJECT NO.	A01-292
CHECKED BY	KWK
DRAWN BY	BAB
CAD FILE NAME	MCC-PO01.dwg
DWG DATE	04/22/2020
DWG NO.	

P001





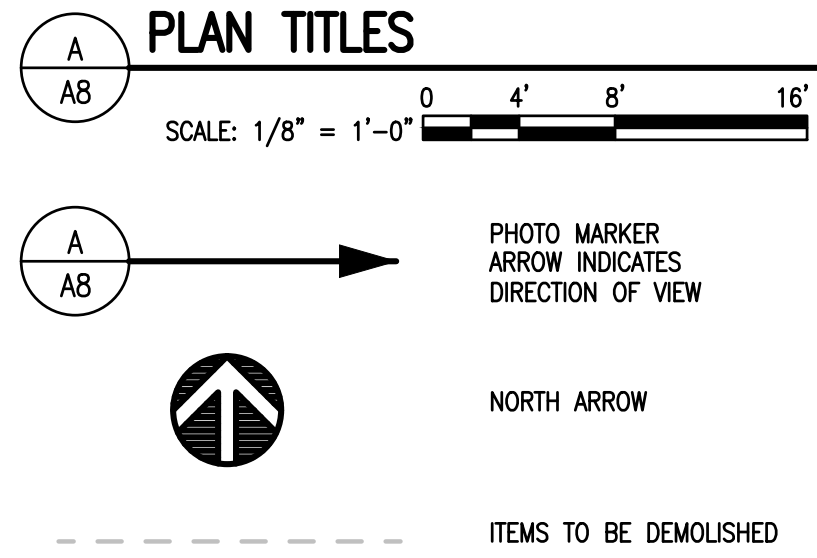
P2. PROVIDE "FD" FIXTURE PER PLUMBING FIXTURE AND FITTING SCHEDULE, SHEET P001. CUT FLOOR AND/OR WALLS AS REQUIRED TO CONNECT TO NEAREST EXISTING SANITARY PIPING.



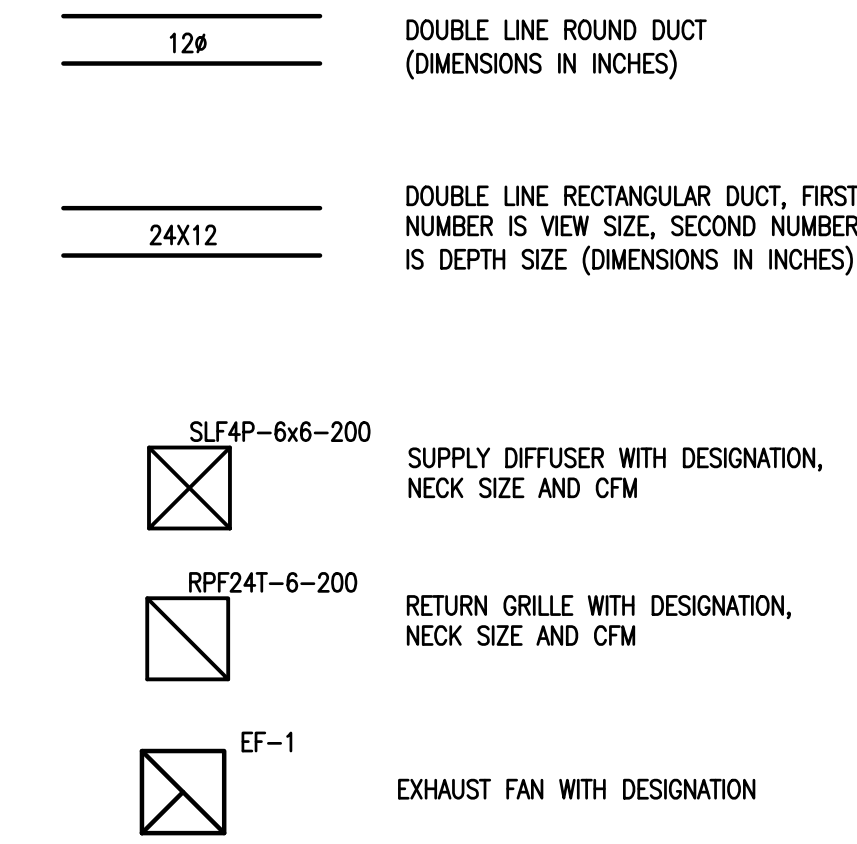
REVISION	DATE	ITEM	
PROJECT NO.			A01-292
CHECKED BY			KWK
DRAWN BY			BAB
CAD FILE NAME			MCC-P100.dwg
DWG DATE			04/22/2020
DWG NO.			P100



GENERAL SYMBOLS



MECHANICAL DUCTWORK SYMBOLS



GENERAL NOTES

- PROJECT SCOPE: PROVIDE COMPLETE AND OPERATIONAL SYSTEMS AS OUTLINED IN THE CONTRACT DOCUMENTS INCLUDING ALL NECESSARY MATERIAL, LABOR, AND EQUIPMENT.
- CONSTRUCTION\CONTRACT DOCUMENTS: CONTRACT DOCUMENTS INCLUDING PLANS, DETAILS, AND ONE-LINE DIAGRAMs SHOW THE GENERAL LOCATION AND ARRANGEMENT OF THE WORK. THESE DOCUMENTS ARE DIAGRAMATIC AND DO NOT SHOW ALL CONNECTORS, FITTINGS, HANGERS, AND ADDITIONAL ELEMENTS WHICH THE CONTRACTOR MUST PROVIDE TO COMPLETE THE SYSTEMS AS OUTLINED IN THE CONTRACT DOCUMENTS. PLANS AND DETAILS DO NOT SHOW ALL INTERFERENCE'S AND CONDITIONS, VISIBLE AND/OR HIDDEN, THAT MAY EXIST, THUS REQUIRING THE CONTRACTOR TO INSPECT AND SURVEY THE PROJECT AREA BEFORE PERFORMING THE WORK. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BY FIELD MEASUREMENTS.
- COORDINATION:
  - THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH ALL CONSTRUCTION DOCUMENTS AND OTHER TRADES ASSOCIATED WITH THE PROJECT.
  - THE CONTRACTOR SHALL VISIT THE SITE OF WORK AND FAMILIARIZE HIMSELF WITH ALL AVAILABLE INFORMATION CONCERNING THE NATURE OF THE INSTALLATION AND CONDITIONS.
  - BEFORE SELECTING MATERIAL, EQUIPMENT AND PROCEEDING WITH WORK, INSPECT AREAS WHERE MATERIAL AND EQUIPMENT ARE TO BE INSTALLED TO INSURE SUITABILITY, AND CHECK NEEDED SPACE FOR PLACEMENT, CLEARANCES AND INTERCONNECTIONS.
  - PLANS AND DETAILS DO NOT SHOW ALL INTERFERENCE'S AND CONDITIONS, VISIBLE AND/OR HIDDEN THAT MAY EXIST; THUS, REQUIRING THE CONTRACTOR TO INSPECT AND SURVEY THE SPACE BEFORE PERFORMING THE WORK.
  - BEFORE CUTTING OR DRILLING INTO BUILDING ELEMENTS INSPECT AND LAYOUT WORK TO AVOID DAMAGING STRUCTURAL ELEMENTS AND BUILDING UTILITIES.
  - ARRANGE FOR CHASES, SLOTS, AND OPENINGS IN OTHER BUILDING COMPONENTS DURING PROGRESS OF CONSTRUCTION, TO ALLOW FOR PROPER SYSTEM INSTALLATIONS.
  - COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SLEEVES TO BE SET IN POURED IN PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS, AS THEY ARE CONSTRUCTED.
  - FAILURE OF THE CONTRACTOR TO ACQUAINT HIMSELF WITH ALL AVAILABLE INFORMATION CONCERNING THE ABOVE CONDITIONS AND NOT PERFORMING PROPER COORDINATION WILL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR ESTIMATING THE DIFFICULTIES AND COSTS FOR SUCCESSFULLY PERFORMING THE COMPLETE WORK UNDER THIS PROJECT.
- SHUTDOWNS: WRITTEN REQUESTS FOR APPROVAL FOR PLANNED SHUTDOWNS OR INTERRUPTION OF OWNER'S UTILITIES, SYSTEMS AND EQUIPMENT SHALL BE MADE 72 HOURS PRIOR TO THE START OF THE REQUESTED SHUTDOWN PERIODS.
- CODES AND STANDARDS: THE CONTRACTOR SHALL FOLLOW ALL FEDERAL, STATE AND LOCAL CODES THAT HAVE JURISDICTION WHERE THE WORK IS BEING PERFORMED. THROUGHOUT THE CONTRACT DOCUMENTS CERTAIN CODES AND STANDARDS ARE REFERENCED. THE CONTRACTOR SHALL USE THE LATEST VERSIONS OF CODES AND STANDARDS REFERENCED UNLESS OTHERWISE NOTED. IF THE CONTRACTOR IS NOT FAMILIAR WITH THE REFERENCED STANDARD THEY SHALL CONTACT THE OWNER'S REPRESENTATIVE FOR DIRECTION.
- PERMITS: THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE FOR ALL REQUIRED INSPECTIONS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL GOVERNING AUTHORITIES.
- WORKMAN: ALL WORK SHALL BE DONE WITH LICENSED WORKMEN IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL GOVERNING AUTHORITIES CODES AND REGULATIONS.
- SUBMITTALS: THE CONTRACTOR SHALL PROVIDE SUBMITTALS FOR ALL EQUIPMENT AND MATERIALS BEING PROVIDED BEFORE SUCH EQUIPMENT AND MATERIALS ARE PURCHASED AND INSTALLED. THE SUBMITTALS SHALL BE REVIEWED AND RETURNED BY THE OWNER'S REPRESENTATIVE WITH APPROPRIATE COMMENTS. SUBMITTALS SHALL BE SUBMITTED ELECTRONICALLY IN PDF FORMAT AND WILL BE RETURNED WITH COMMENTS TO THE CONTRACTOR IN PDF FORMAT.
- AS-BUILT DOCUMENTATION: THE CONTRACTOR SHALL PROVIDE ONE MARK-UP SET OF CONSTRUCTION DOCUMENTS SHOWING FINAL AS-BUILT CONDITIONS. DOCUMENTS SHALL CLEARLY SHOW THE CHANGES MADE TO THE INSTALLED SYSTEMS.
- EQUIPMENT WARRANTIES, MAINTENANCE MANUALS AND INSTALLATION MANUALS: TURN OVER TO THE OWNER ALL MANUFACTURERS' WARRANTIES, MAINTENANCE MANUALS, AND INSTALLATION MANUALS FOR EQUIPMENT AND MATERIALS PROVIDED.
- PHOTOGRAPHS: PHOTOGRAPHS ARE PROVIDED TO SHOW CURRENT CONDITION OF BUILDING SYSTEMS TO ASSIST THE CONTRACTOR. PHOTOGRAPHS DO NOT SHOW ALL AREAS OF THE BUILDING OR ALL SYSTEM CONDITIONS, THUS REQUIRING THE CONTRACTOR TO VISIT THE SITE

- BEFORE PERFORMING WORK, PHOTOGRAPHS ARE NOT INTENDED TO SHOW SCOPE OF WORK. PLANS, NOTES, SPECIFICATIONS AND OTHER BID DOCUMENTS INDICATE SCOPE OF WORK.
12. TERMINOLOGY:
- THE TERM "INDICATED" SHALL MEAN, "AS SHOWN ON CONTRACT DOCUMENTS (SPECIFICATIONS, DRAWINGS, AND RELATED ATTACHMENTS)".
  - THE TERM "PROVIDE" SHALL MEAN, "TO FURNISH, INSTALL, AND CONNECT COMPLETELY".
  - THE TERM "COORDINATE" SHALL MEAN ONE OR MORE OF THE FOLLOWING: "TO MANAGE, INTERFACE, COMMUNICATE, MAKE ARRANGEMENT, BRING INTO ORDER, ADMINISTER AND HANDLE COMPLETELY".
  - THE TERM "INTERIOR" IS AN INTERIOR LOCATION WHERE ITS ENVIRONMENT IS HEATED AND/OR AIR CONDITIONED AND NOT SUBJECT TO OUTSIDE WEATHER CONDITIONS.
  - THE TERM "EXTERIOR" IS ALL LOCATIONS, WHICH ARE NOT INTERIOR, OR UNDERGROUND.
  - THE TERM "INTERIOR FINISHED SPACE" IS INTERIOR SPACES, WHICH ARE USED FOR OFFICES, CORRIDORS, LOBBIES, TOILETS, STORAGE AND FILING ROOMS, LOUNGES, MECHANICAL ROOMS, ELECTRICAL ROOMS, ETC.
13. DEMOLITION: DEMOLITION OF INDICATED ITEMS INCLUDES THE REMOVAL AND PROPER DISPOSAL OF THOSE ITEMS AND ALL ASSOCIATED PIPING, DUCTWORK, WIRING AND HANGERS. ELECTRICAL BRANCH, CONTROL, TELEPHONE, AND ALARM WIRING SHALL BE REMOVED BACK TO PANELBOARDS OR RELATED SYSTEM PANELS OR BACKBOARDS.
14. EQUIPMENT AND MATERIAL INSTALLATIONS:
- ALL EQUIPMENT AND MATERIALS SHALL BE LABELED AND LISTED, AND INSTALLED IN ACCORDANCE WITH THEIR LISTING AND MANUFACTURER'S REQUIREMENTS.
  - WHEN A MANUFACTURER RECOMMENDS AN OPTION OR ACCESSORY ITEM FOR THE INSTALLED CONDITION, OPERATION, OR ENVIRONMENT THAT IS TO BE EXPERIENCED, SUCH ITEM SHALL BE SUPPLIED AT NO ADDITIONAL COST TO THE OWNER.
  - IF AN EQUIPMENT MANUFACTURER REQUIRES LARGER CAPACITY, CIRCUITRY AND/OR EQUIPMENT, THE CONTRACTOR SHALL PROVIDE SUCH CAPACITY AND/OR EQUIPMENT UNDER HIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
  - LOCATE ALL EQUIPMENT, WHICH REQUIRES SERVICING IN FULLY ACCESSIBLE POSITIONS. IF REQUIRED FOR BETTER ACCESSIBILITY, FURNISH ACCESS DOORS FOR THAT PURPOSE.
  - MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ALLOW FOR BETTER ACCESSIBILITY.
  - ALL WORK IN INTERIOR FINISHED SPACES SHALL BE CONCEALED BEHIND WALLS, ABOVE CEILINGS OR HUNG CEILINGS, OR UNDER THE FLOOR. PROVIDE ALL NECESSARY CUTTING, PATCHING, REPAINTING AND/OR REPLACEMENT OF CEILING TILES AS REQUIRED TO PERFORM WORK.
  - INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT TO CONFORM WITH APPROVED SUBMITTAL DATA, INCLUDING COORDINATION DRAWINGS (IF REQUIRED), TO GREATEST EXTENT POSSIBLE. CONFORM TO ARRANGEMENTS INDICATED BY THE CONTRACT DOCUMENTS, RECOGNIZING THAT PORTIONS OF THE WORK ARE SHOWN ONLY IN DIAGRAMATIC FORM. WHERE COORDINATION REQUIREMENTS CONFLICT WITH INDIVIDUAL SYSTEM REQUIREMENTS, REFER CONFLICT TO THE ARCHITECT/ENGINEER.
  - INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT LEVEL AND PLUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS, WHERE INSTALLED EXPOSED IN FINISHED SPACES
  - INSTALL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE, AND REPAIR OR REPLACEMENT OF EQUIPMENT COMPONENTS. AS MUCH AS PRACTICAL, CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS.
  - INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT GIVING RIGHT OF WAY PRIORITY TO SYSTEMS REQUIRED TO BE INSTALLED AT A SPECIFIED SLOPE.
  - WHERE MOUNTING HEIGHTS ARE NOT DETAILED OR DIMENSIONED, INSTALL SYSTEMS, MATERIALS, AND EQUIPMENT TO PROVIDE THE MAXIMUM HEADROOM POSSIBLE.
15. FIRE RATINGS: THE CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS FOR FIRE SEPARATION AND FIRE RATED ASSEMBLIES. ALL PIPING, DUCTWORK AND CONDUITS PASSING THROUGH OR PENETRATING WALLS, CEILINGS AND FLOORS SHALL BE PROVIDED WITH A UL LISTED FIRE STOPPING ASSEMBLIES. UL LISTED FIRE STOPPING ASSEMBLIES SHALL BE SUITABLE FOR THE CONDITIONS ENCOUNTERED AND SHALL BE RATED EQUAL TO THE RATING OF THE WALL, CEILING OR FLOOR. REVIEW FIRE RATED ASSEMBLIES THAT ALLOW PENETRATIONS OF ITEMS SUCH AS OUTLET BOXES AND CONDUITS THAT DO NOT REQUIRE FIRE STOPPING. SPACE AND POSITION THESE DEVICES AS ALLOWED PER THE ASSEMBLY'S UL RATING.
16. MANUFACTURER'S NAMEPLATES: EACH ITEM OF EQUIPMENT SHALL HAVE A NAMEPLATE BEARING THE MANUFACTURER'S NAME, ADDRESS, MODEL NUMBER, AND SERIAL NUMBER SECURELY AFFIXED IN A CONSPICUOUS PLACE; THE NAMEPLATE OF THE DISTRIBUTING AGENT WILL NOT BE ACCEPTABLE.

MECHANICAL SPECIFICATIONS

PART 1 GENERAL

- 1.1 QUALITY ASSURANCE: EXCEPT AS OTHERWISE SPECIFIED, APPROVAL OF MATERIALS AND EQUIPMENT IS BASED ON MANUFACTURER'S PUBLISHED DATA.

A. WHERE MATERIALS AND EQUIPMENT ARE SPECIFIED TO CONFORM TO THE STANDARDS OF THE UNDERWRITERS LABORATORIES, THE LABEL OF OR LISTING WITH REEXAMINATION IN UL BLD MAT DIR, AND UL 6 IS ACCEPTABLE AS SUFFICIENT EVIDENCE THAT THE ITEMS CONFORM TO UNDERWRITERS LABORATORIES REQUIREMENTS. IN LIEU OF SUCH LABEL OR LISTING, SUBMIT A WRITTEN CERTIFICATE FROM ANY NATIONALLY RECOGNIZED TESTING AGENCY, ADEQUATELY EQUIPPED AND COMPETENT TO PERFORM SUCH SERVICES, STATING THAT THE ITEMS HAVE BEEN TESTED AND THAT THE UNITS CONFORM TO THE SPECIFIED REQUIREMENTS. OUTLINE METHODS OF TESTING USED BY THE SPECIFIED AGENCIES.

B. WHERE MATERIALS OR EQUIPMENT ARE SPECIFIED TO BE CONSTRUCTED OR TESTED, OR BOTH, IN ACCORDANCE WITH THE STANDARDS OF THE ASTM INTERNATIONAL (ASTM), THE ASME INTERNATIONAL (ASME), OR OTHER STANDARDS, A MANUFACTURER'S CERTIFICATE OF COMPLIANCE OF EACH ITEM IS ACCEPTABLE AS PROOF OF COMPLIANCE.

C. CONFORMANCE TO SUCH AGENCY REQUIREMENTS DOES NOT RELIEVE THE ITEM FROM COMPLIANCE WITH OTHER REQUIREMENTS OF THESE SPECIFICATIONS.

PART 2 PRODUCTS

2.1 DUCT SYSTEMS

2.1.1 METAL DUCTWORK: PROVIDE METAL DUCTWORK CONSTRUCTION, INCLUDING ALL FITTINGS AND COMPONENTS, THAT COMPLIES WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE, AS SUPPLEMENTED AND MODIFIED BY THIS SPECIFICATION.

A. PROVIDE RADIUS TYPE ELBOWS WITH A CENTERLINE RADIUS OF 1.5 TIMES THE WIDTH OR DIAMETER OF THE DUCT WHERE SPACE PERMITS. OTHERWISE, ELBOWS HAVING A MINIMUM RADIUS EQUAL TO THE WIDTH OR DIAMETER OF THE DUCT OR SQUARE ELBOWS WITH FACTORY FABRICATED TURNING VANES ARE ALLOWED.

B. PROVIDE SEALANTS THAT ARE SUITABLE FOR THE RANGE OF AIR DISTRIBUTION AND AMBIENT TEMPERATURES TO WHICH IT IS EXPOSED. DO NOT USE PRESSURE SENSITIVE TAPE AS A SEALANT.

C. MAKE SPIRAL LOCK SEAM DUCT, AND FLAT OVAL WITH DUCT SEALANT AND LOCK WITH NOT LESS THAN 3 EQUALLY SPACED DRIVE SCREWS OR OTHER APPROVED METHODS INDICATED IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE. APPLY THE SEALANT TO THE EXPOSED MALE PART OF THE FITTING COLLAR SO THAT THE SEALER IS ON THE INSIDE OF THE JOINT AND FULLY PROTECTED BY THE METAL OF THE DUCT FITTING. APPLY ONE BRUSH COAT OF THE SEALANT OVER THE OUTSIDE OF THE JOINT TO AT LEAST 2 INCH BAND WIDTH COVERING ALL SCREW HEADS AND JOINT GAP. DENTS IN THE MALE PORTION OF THE SLIP FITTING COLLAR ARE NOT ACCEPTABLE. FABRICATE OUTDOOR AIR INTAKE DUCTS AND PLENUMS WITH WATERTIGHT SOLDERED OR BRAZED JOINTS AND SEAMS.

2.1.2 INSULATED NONMETALLIC FLEXIBLE DUCT RUNOUTS: USE FLEXIBLE DUCT RUNOUTS ONLY WHERE INDICATED. RUNOUT LENGTH IS INDICATED ON THE DRAWINGS, AND IS NOT TO EXCEED 5 FEET. PROVIDE RUNOUTS THAT ARE PREINSULATED, FACTORY FABRICATED, AND THAT COMPLY WITH NFPA 90A AND UL 181. PROVIDE EITHER FIELD OR FACTORY APPLIED VAPOR BARRIER. PROVIDE NOT LESS THAN 20 OUNCE GLASS FABRIC DUCT CONNECTORS COATED ON BOTH SIDES WITH NEOPRENE. WHERE COIL INDUCTION OR HIGH VELOCITY UNITS ARE SUPPLIED WITH VERTICAL AIR INLETS, USE A STREAMLINED, VANED AND MITERED ELBOW TRANSITION PIECE FOR CONNECTION TO THE FLEXIBLE DUCT OR HOSE. PROVIDE A DIE-STAMPED ELBOW AND NOT A FLEXIBLE CONNECTOR AS THE LAST ELBOW TO THESE UNITS OTHER THAN THE VERTICAL AIR INLET TYPE. INSULATED FLEXIBLE CONNECTORS ARE ALLOWED AS RUNOUTS. PROVIDE INSULATED MATERIAL AND VAPOR BARRIER THAT CONFORM TO THE REQUIREMENTS OF SECTION 23 07 00 THERMAL INSULATION FOR MECHANICAL SYSTEMS. DO NOT EXPOSE THE INSULATION MATERIAL SURFACE TO THE AIR STREAM.

2.1.3 GENERAL SERVICE DUCT CONNECTORS: PROVIDE A FLEXIBLE DUCT CONNECTOR APPROXIMATELY 6 INCHES IN WIDTH WHERE SHEET METAL CONNECTIONS ARE MADE TO FANS OR WHERE DUCTS OF DISSIMILAR METALS ARE CONNECTED. FOR ROUND/OVAL DUCTS, SECURE THE

FLEXIBLE MATERIAL BY STAINLESS STEEL OR ZINC-COATED, IRON CLUNCH-TYPE DRAW BANDS. FOR RECTANGULAR DUCTS, INSTALL THE FLEXIBLE MATERIAL LOCKED TO METAL COLLARS USING NORMAL DUCT CONSTRUCTION METHODS. PROVIDE A COMPOSITE CONNECTOR SYSTEM THAT COMPLIES WITH NFPA 701 AND IS CLASSIFIED AS "FLAME-RETARDED FABRICS" IN UL BLD MAT DIR.

PART 3 EXECUTION

3.1 GENERAL: SEE DUCTWORK SCHEDULE FOR SYSTEM MATERIALS, PRESSURE CLASSIFICATIONS AND SEALANT REQUIREMENTS.

3.2 INSTALLATION

A. INSTALL MATERIALS AND EQUIPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND APPROVED MANUFACTURER'S INSTALLATION INSTRUCTIONS. ACCOMPLISH INSTALLATION BY WORKERS SKILLED IN THIS TYPE OF WORK. PERFORM INSTALLATION SO THAT THERE IS NO DEGRADATION OF THE DESIGNED FIRE RATINGS OF WALLS, PARTITIONS, CEILINGS, AND FLOORS.

B. NO INSTALLATION IS PERMITTED TO BLOCK OR OTHERWISE IMPEDE ACCESS TO ANY EXISTING MACHINE OR SYSTEM. INSTALL ALL HINGED DOORS TO SWING OPEN A MINIMUM OF 120 DEGREES. PROVIDE AN AREA IN FRONT OF ALL ACCESS DOORS THAT CLEARS A MINIMUM OF 3 FEET. IN FRONT OF ALL ACCESS DOORS TO ELECTRICAL CIRCUITS, CLEAR THE AREA THE MINIMUM DISTANCE TO ENERGIZED CIRCUITS AS SPECIFIED IN OSHA STANDARDS, PART 1910.333 (ELECTRICAL-SAFETY RELATED WORK PRACTICES)AND AN ADDITIONAL 3 FEET.

3.2.2 FLEXIBLE DUCT

INSTALL PRE-INSULATED FLEXIBLE DUCT IN ACCORDANCE WITH THE LATEST PRINTED INSTRUCTIONS OF THE MANUFACTURER TO ENSURE A VAPOR TIGHT JOINT. PROVIDE HANGERS, WHEN REQUIRED TO SUSPEND THE DUCT, OF THE TYPE RECOMMENDED BY THE DUCT MANUFACTURER AND SET AT THE INTERVALS RECOMMENDED.

3.2.3 METAL DUCTWORK: INSTALL ACCORDING TO SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE UNLESS OTHERWISE INDICATED. INSTALL DUCT SUPPORTS FOR SHEET METAL DUCTWORK ACCORDING TO SMACNA HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE, UNLESS OTHERWISE SPECIFIED. DO NOT USE FRICTION BEAM CLAMPS INDICATED IN SMACNA. ANCHOR RISERS ON HIGH VELOCITY DUCTS IN THE CENTER OF THE VERTICAL RUN TO ALLOW ENDS OF RISER TO MOVE DUE TO THERMAL EXPANSION. ERECT SUPPORTS ON THE RISERS THAT ALLOW FREE VERTICAL MOVEMENT OF THE DUCT. ATTACH SUPPORTS ONLY TO STRUCTURAL FRAMING MEMBERS AND CONCRETE SLABS. DO NOT ANCHOR SUPPORTS TO METAL DECKING UNLESS A MEANS IS PROVIDED AND APPROVED FOR PREVENTING THE ANCHOR FROM PUNCTURING THE METAL DECKING. WHERE SUPPORTS ARE REQUIRED BETWEEN STRUCTURAL FRAMING MEMBERS, PROVIDE SUITABLE INTERMEDIATE METAL FRAMING. WHERE C-CLAMPS ARE USED, PROVIDE RETAINER CLIPS.

3.6 TESTING, ADJUSTING, AND BALANCING: PERFORM TAB IN ACCORDANCE WITH THE REQUIREMENTS OF THE TAB PROCEDURAL STANDARD RECOMMENDED BY THE TAB TRADE ASSOCIATION THAT APPROVED THE TAB FIRM'S QUALIFICATIONS. COMPLY WITH REQUIREMENTS OF AABC NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE, NEBB PROCEDURAL STANDARDS FOR TAB (TESTING, ADJUSTING AND BALANCING) ENVIRONMENTAL SYSTEMS, OR SMACNA HVAC SYSTEMS - TESTING, ADJUSTING AND BALANCING. ALL RECOMMENDATIONS AND SUGGESTED PRACTICES CONTAINED IN THE TAB PROCEDURAL STANDARDS ARE CONSIDERED MANDATORY. SUBMIT TAB REPORTS TO THE OWNER'S REPRESENTATIVE.

3.7 PERFORMANCE TESTS: AFTER TESTING, ADJUSTING, AND BALANCING IS COMPLETE AS SPECIFIED, TEST EACH SYSTEM AS A WHOLE TO SEE THAT ALL ITEMS PERFORM AS INTEGRAL PARTS OF THE SYSTEM AND TEMPERATURES AND CONDITIONS ARE EVENLY CONTROLLED THROUGHOUT THE BUILDING. RECORD THE TESTING DURING THE APPLICABLE SEASON. MAKE CORRECTIONS AND ADJUSTMENTS AS NECESSARY TO PRODUCE THE CONDITIONS INDICATED OR SPECIFIED. CONDUCT CAPACITY TESTS AND GENERAL OPERATING TESTS BY AN EXPERIENCED ENGINEER. PROVIDE TESTS THAT COVER A PERIOD OF NOT LESS THAN 3 DAYS FOR EACH SYSTEM AND DEMONSTRATE THAT THE ENTIRE SYSTEM IS FUNCTIONING ACCORDING TO THE SPECIFICATIONS.

3.9 INSULATION: SEE DUCT INSULATION SCHEDULES FOR INSULATION MATERIAL AND INSTALLATION REQUIREMENTS.

DUCTWORK CONSTRUCTION SCHEDULE, NOTE 1			
DUCTWORK SYSTEM	DUCTWORK MATERIAL	PRESSURE CLASS (IWG), NOTE 2	SEAL CLASS, NOTE 3
SUPPLY	GALVANIZED STEEL	+2	A
GENERAL EXHAUST POSITIVE PRESSURE	GALVANIZED STEEL	+1	B
GENERAL EXHAUST NEGATIVE PRESSURE	GALVANIZED STEEL	-1	B

NOTES:

- ALL DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SMACNA 2005 "HVAC DUCT CONSTRUCTION STANDARDS".
- PRESSURE CLASSIFICATIONS ARE BASED ON SMACNA 2005 "HVAC DUCT CONSTRUCTION STANDARDS".
- SEAL CLASS A: SEAL ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS & DUCT WALL PENETRATIONS. SEAL CLASS B: SEAL ALL TRANSVERSE JOINTS & LONGITUDINAL SEAMS.

REGISTER, GRILLE, AND DIFFUSER SCHEDULE									
DESIGNATION	DESCRIPTION	LOCATION	FRAME STYLE	NECK SIZE (IN), NOTE 1	FACE SIZE (IN)	MAXIMUM AIR FLOW (CFM)	COLOR	MODEL	MANUFACTURER
SLF4P-9X9	STEEL 4-WAY LOUVERED FACE DIRECTION DIFFUSER	CEILING	LAY-IN TEE BAR PANEL	9 x 9	15X15	310	WHITE	SMD	PRICE OR EQUAL

DUCTWORK INSULATION SCHEDULE								
DUCT SYSTEM	LOCATION	DUCT TEMP. (°F)	INSULATION MATERIAL, NOTE 3	INSULATION DENSITY (LB/CF)	INSULATION THICKNESS (IN), NOTE 1	K-FACTOR AT A 75°F MEAN TEMP. (BTU*IN/HRT*FT²)	MIN. INSTALLED R-VALUE (HFT*2/BTU)	JACKET TYPE, NOTE 3
HEATING & COOLING SUPPLY	VENTILATED ATTIC	55 TO 110	INORGANIC GLASS MINERAL WOOL BLANKET	0.75	3	0.29	8.4	FSK
HEATING & COOLING SUPPLY	UNVENTED ATTIC OR ABOVE INSULATED CEILING	55 TO 110	INORGANIC GLASS MINERAL WOOL BLANKET	0.75	3	0.29	8.4	FSK
EXHAUST BETWEEN BACK DRAFT DAMPER & OUTDOOR DISCHARGE	VENTILATED ATTIC	55 TO 110	INORGANIC GLASS MINERAL WOOL BLANKET	0.75	3	0.29	8.4	FSK
EXHAUST BETWEEN BACK DRAFT DAMPER & OUTDOOR DISCHARGE	UNVENTED ATTIC OR ABOVE INSULATED CEILING	55 TO 110	INORGANIC GLASS MINERAL WOOL BLANKET	0.75	3	0.29	8.4	FSK

NOTES:

- THICKNESS IS BASED ON LABEL.
- OR EQUAL MANUFACTURERS ARE ACCEPTABLE.
- INSULATION AND JACKET SHALL HAVE A MAXIMUM FLAME SPREAD OF 25 & SMOKE DEVELOPMENT OF 50 PER ASTM E 84.
- PROVIDE AS INDICATED ON DRAWINGS, SPECIFICATIONS OR OTHER SCHEDULES. LINED DUCTWORK DOES NOT NEED TO BE INSULATED. EXTERIOR DUCTWORK NEEDS TO BE SEALED WEATHER TIGHT.

EXHAUST FAN SCHEDULE					
DESIGNATION	EF-1	EF-2	EF-3	EF-4	EF-5
LOCATION	1ST FLOOR MEN'S RM	1ST FLOOR WOMEN'S RM	2ND FLOOR MEN'S RM	2ND FLOOR WOMEN'S RM	1ST FLOOR WOMEN'S RM
DESCRIPTION	CEILING CABINET FAN W/ INSULATED HOUSING	CEILING CABINET FAN W/ INSULATED HOUSING	CEILING CABINET FAN W/ INSULATED HOUSING	CEILING CABINET FAN W/ INSULATED HOUSING	CEILING CABINET FAN W/ INSULATED HOUSING
AIR FLOW (CFM)	75	75	300	300	75
EXT. STATIC PRESS. (IWG)	0.5	0.5	0.5	0.5	0.5
AMCA SOUND RATING (SONES)	2	2	6	6	2
MOTOR WATTS	22	22	155	155	22
BACK DRAFT DAMPER	PROVIDE	PROVIDE	PROVIDE	PROVIDE	PROVIDE
ACCESSORIES	VG (EC MOTOR)	VG (EC MOTOR)	VG (EC MOTOR)	VG (EC MOTOR)	VG (EC MOTOR)
LOCAL ELECTRICAL DISCONNECT	PROVIDE	PROVIDE	PROVIDE	PROVIDE	PROVIDE
ELECTRICAL (V/PH/Hz)	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60
MODEL	SP-A50-90-VG	SP-A50-90-VG	SP-A510-VG	SP-A510-VG	SP-A50-90-VG
MANUFACTURER	GREENHECK OR EQUAL	GREENHECK OR EQUAL	GREENHECK OR EQUAL	GREENHECK OR EQUAL	GREENHECK OR EQUAL

SEAL

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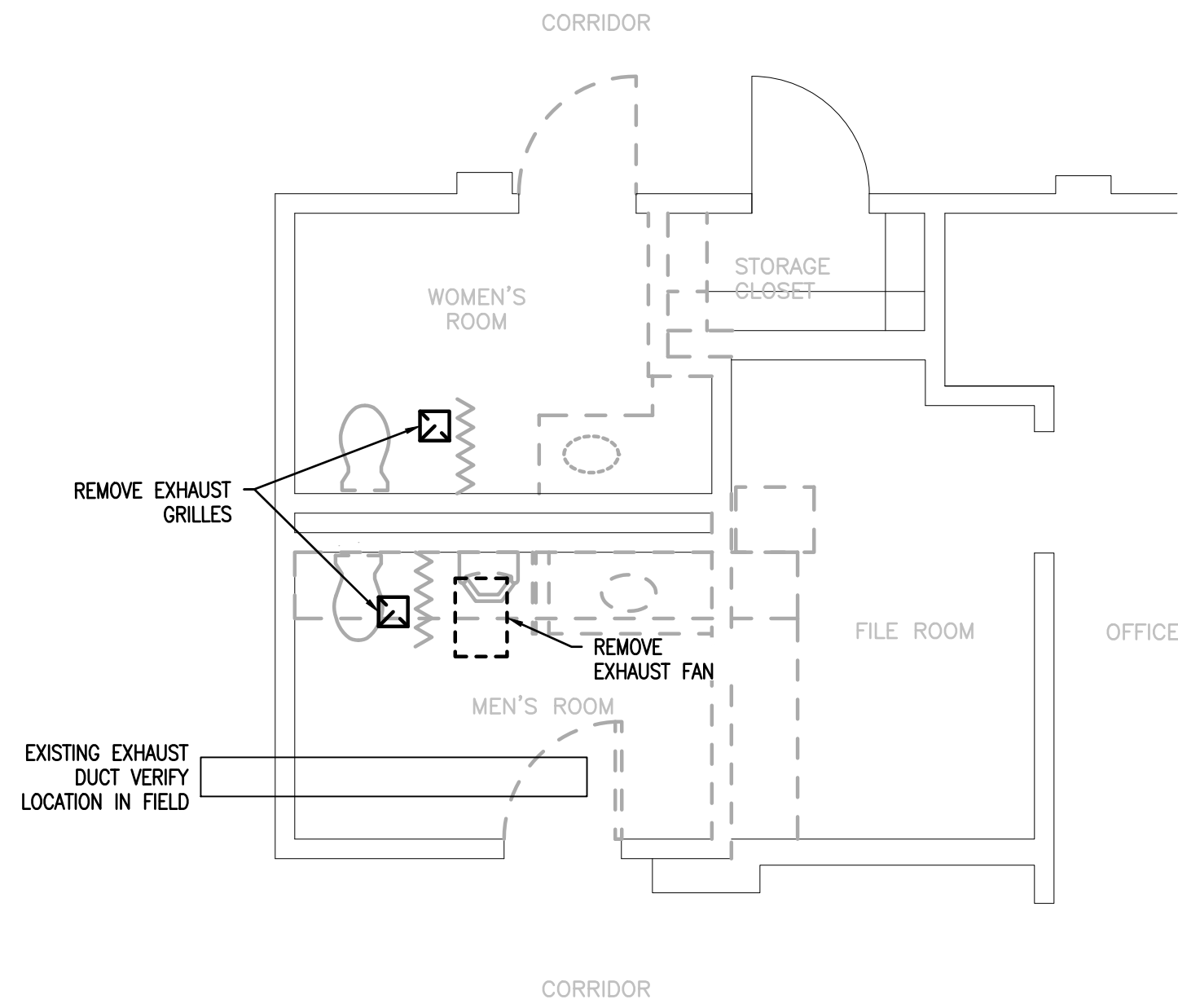
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**TOILET ROOM RENOVATIONS  
SHEPARDSONS COMMUNITY CENTER  
1172 WHITEFORE ROAD, MIDDLEBURY, CT 06762**  
MECHANICAL NOTES & SYMBOLS  
SHEET TITLE

REVISION	DATE	ITEM

PROJECT NO. **A01-292**  
CHECKED BY **KWK**  
DRAWN BY **JGJ**  
CAD FILE NAME **MCC-M001.dwg**  
DWG DATE **04/22/2020**  
DWG NO.

**M001**

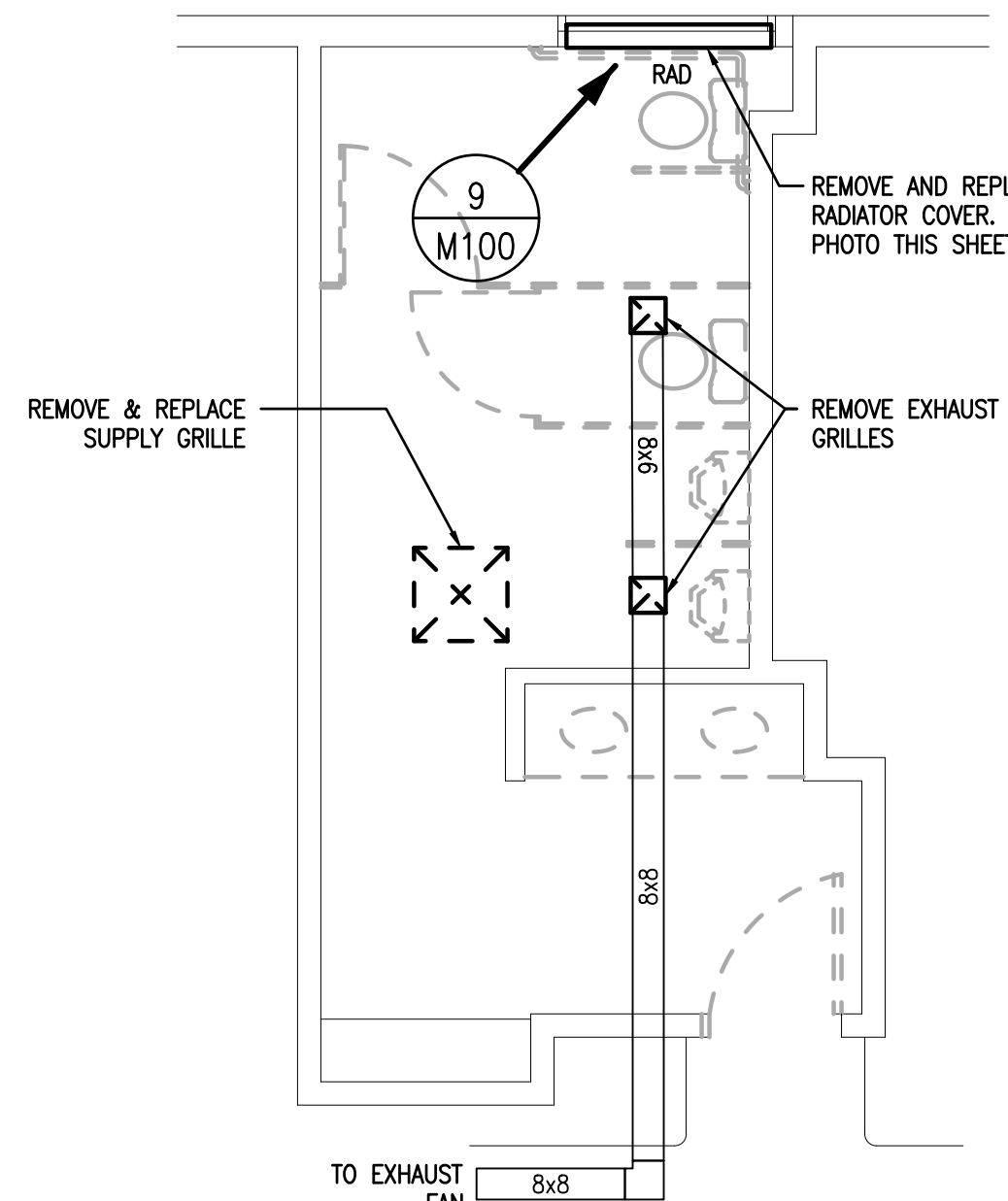




MECHANICAL DEMOLITION  
LOWER LEVEL TOILET ROOMS

1  
M100

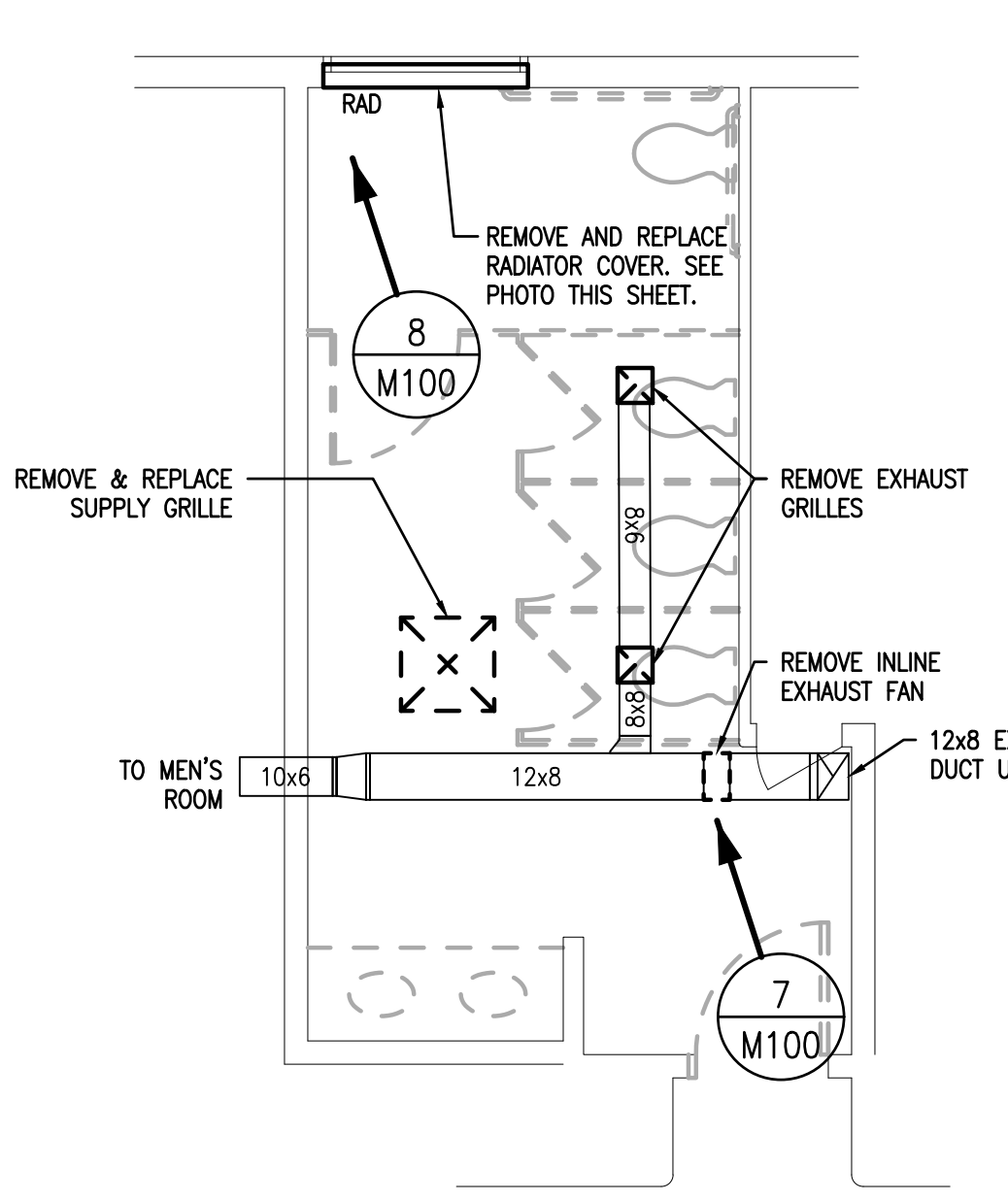
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MECHANICAL DEMOLITION  
UPPER LEVEL MENS ROOM

2  
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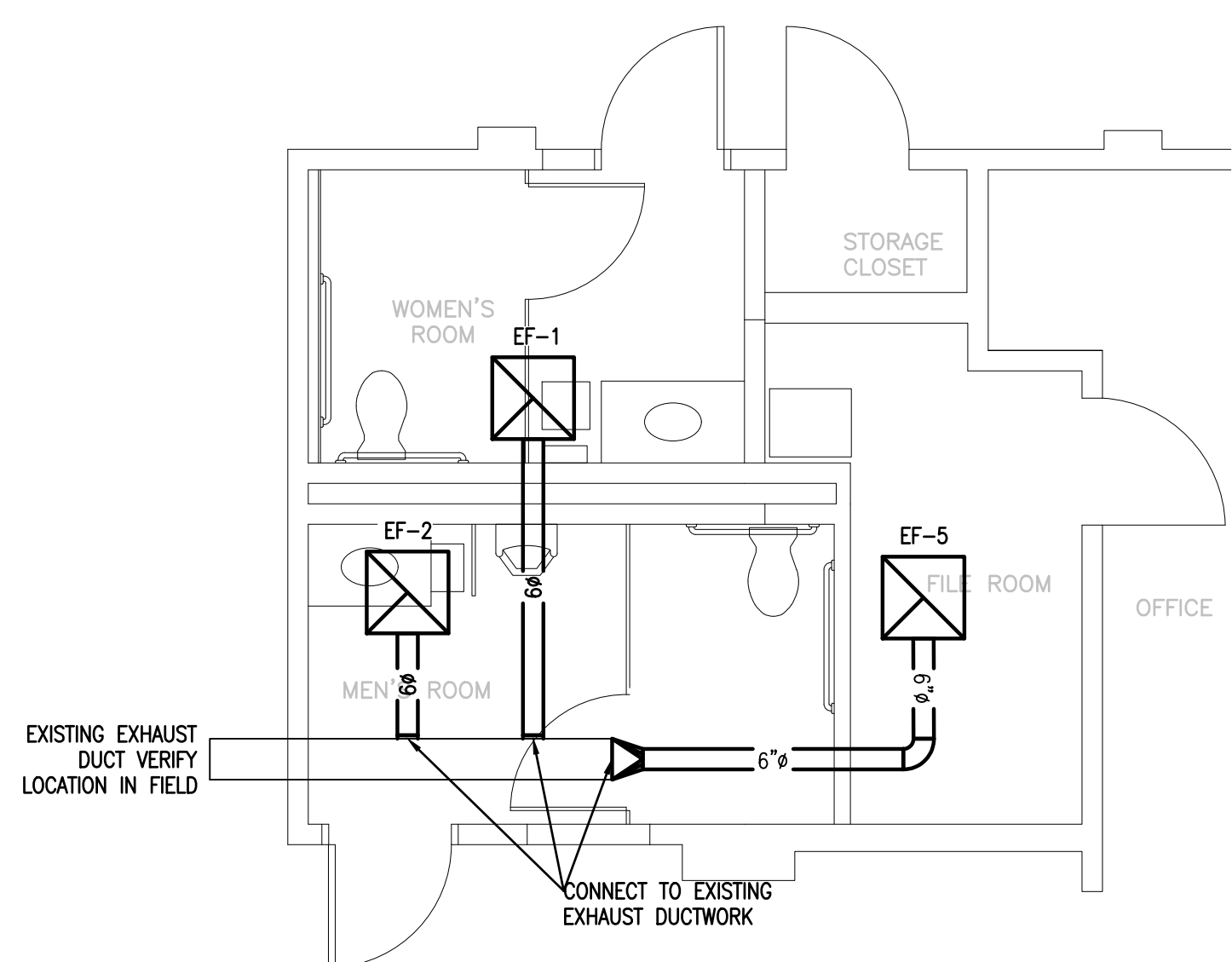
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MECHANICAL DEMOLITION  
UPPER LEVEL WOMENS ROOM

3  
M100

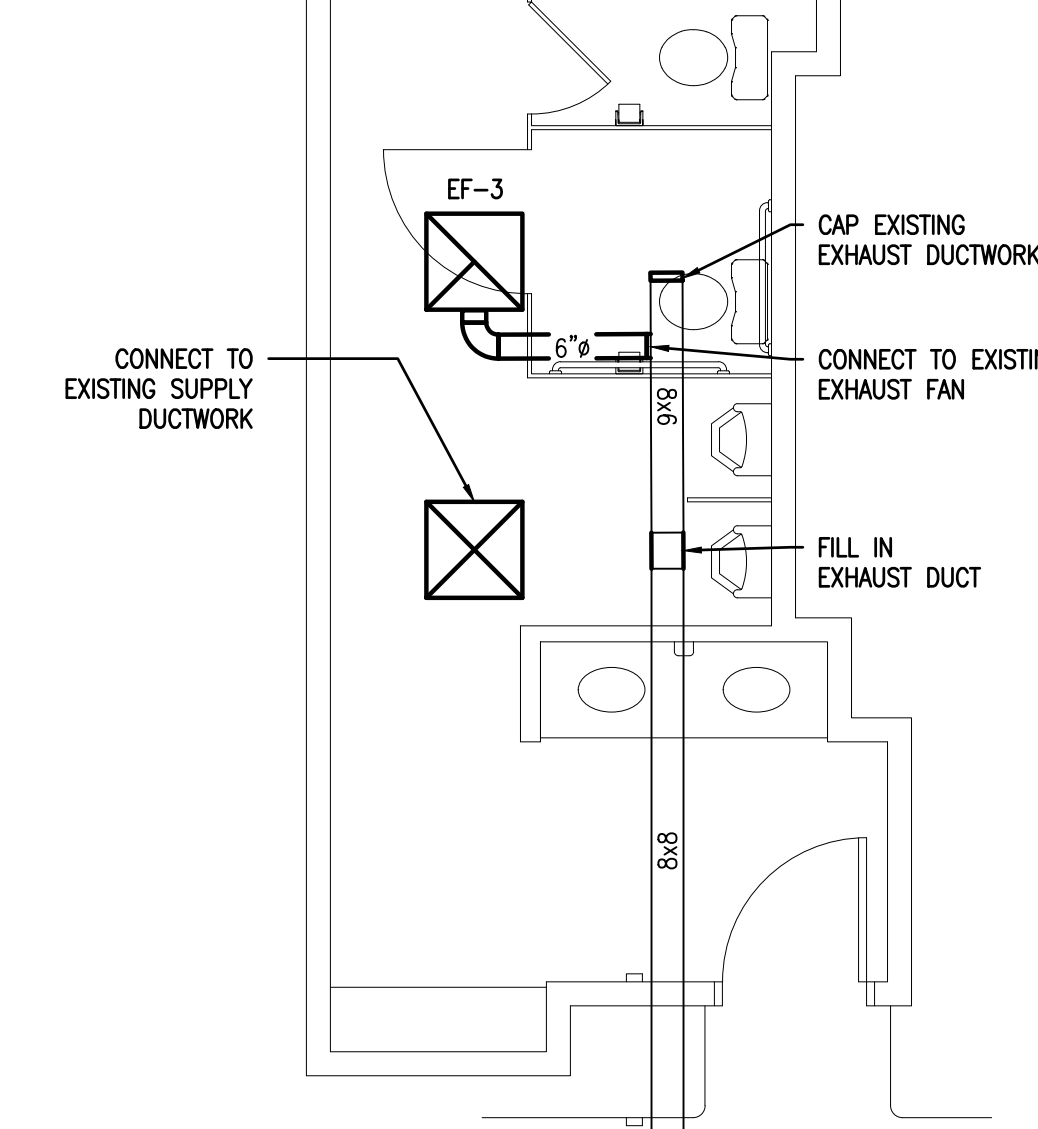
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MECHANICAL INSTALLATION  
LOWER LEVEL TOILET ROOMS

4  
M100

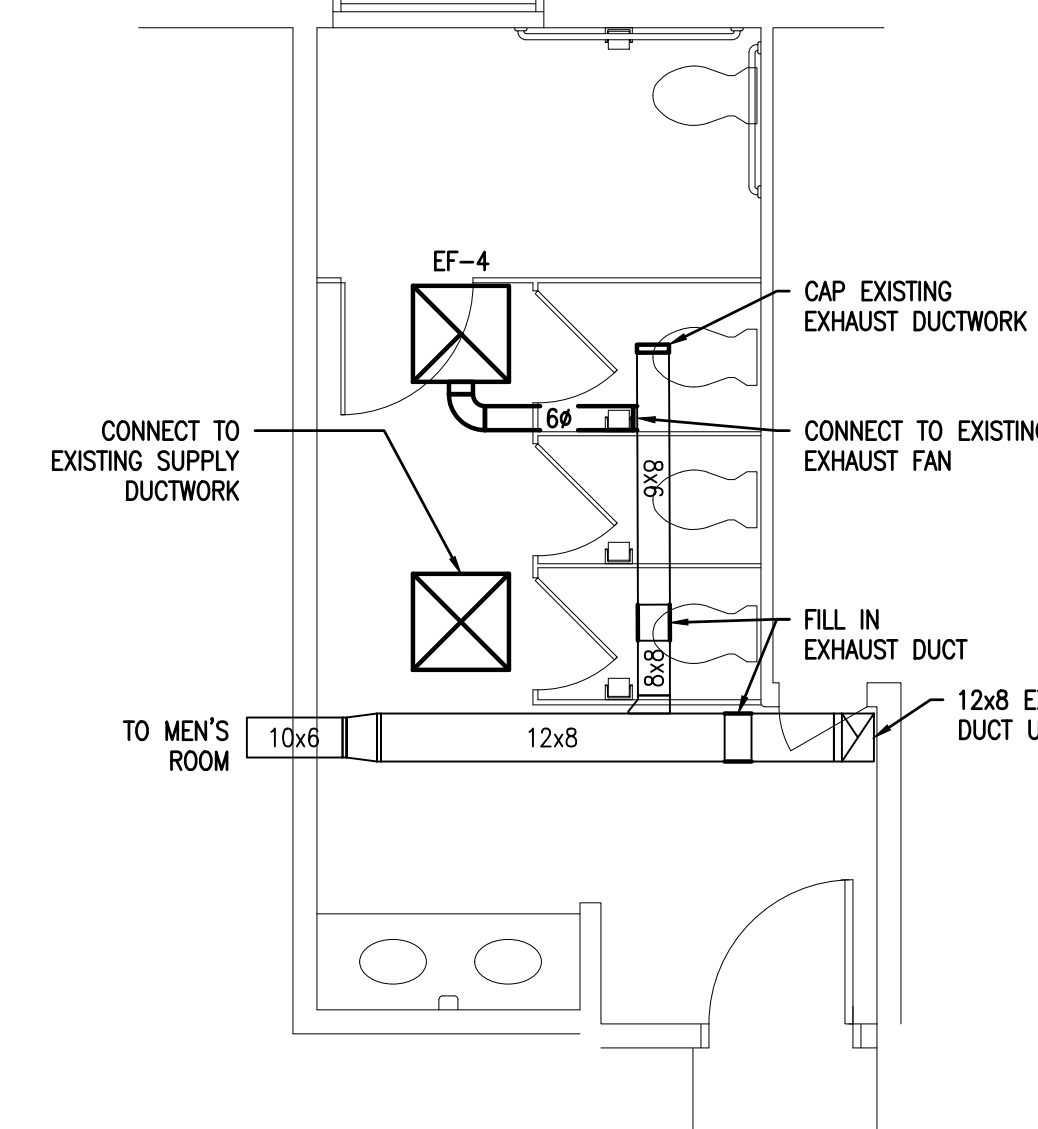
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MECHANICAL INSTALLATION  
UPPER LEVEL MENS ROOM

5  
M100

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



MECHANICAL INSTALLATION  
UPPER LEVEL WOMENS ROOM

6  
M100

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



ATTIC EXHAUST  
FAN REMOVAL

7  
M100

NO SCALE



WOMENS RADIATOR  
COVER REPLACEMENT

9  
M100

NO SCALE



MENS RADIATOR COVER  
REPLACEMENT

8  
M100

NO SCALE

SEAL

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PROJECT TITLE  
**TOILET ROOM RENOVATIONS  
SHEPARDSONS COMMUNITY CENTER  
1172 WHITEMORE ROAD, MIDDLEBURY, CT 06762**

SHEET TITLE  
**MECHANICAL FLOOR PLANS**

REVISION	DATE	ITEM

PROJECT NO. A01-292

CHECKED BY KWK

DRAWN BY GJG

CAD FILE NAME MCC-M100.dwg

DWG DATE 04/22/2020

DWG NO.

**M100**







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PROJECT TITLE  
**TOILET ROOM RENOVATIONS  
SHEPARDSONS COMMUNITY CENTER  
1172 WHITEMORE ROAD, MIDDLEBURY, CT 06762**  
SHEET TITLE  
**ELECTRICAL FLOOR PLANS**

REVISION	DATE	ITEM

PROJECT NO.	A01-292
CHECKED BY	ERK
DRAWN BY	BAB
CAD FILE NAME	MCC-E100.dwg
DWG DATE	04/22/2020
DWG NO.	

E100

## ELECTRICAL WORK ITEMS

### GENERAL:

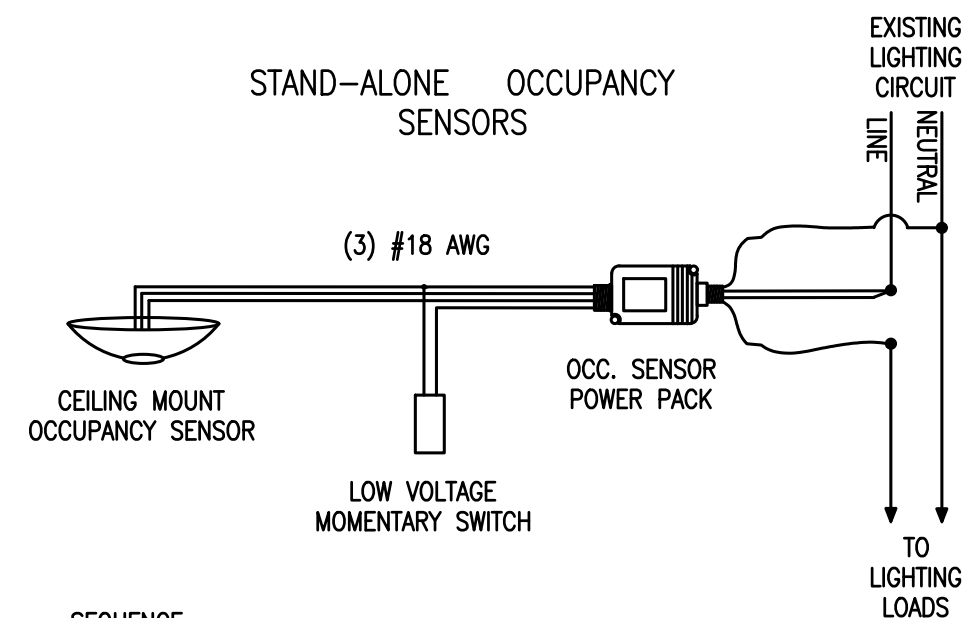
CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ANY DAMAGE CREATED DURING WORK/REPAIRS, WHETHER INTENTIONAL OR ACCIDENTAL. OWNER SHALL BE RESPONSIBLE FOR SELECTING MATERIALS TO MATCH EXISTING CONDITIONS AS BEST POSSIBLE.

### ELECTRICAL REMOVAL: (HEXAGON)

1. REMOVE AND REPLACE EXISTING FIXTURE: MAINTAIN CIRCUIT FOR RE-USE. CONTRACTOR MAY NEED TO EXTEND OR RE-ROUTE WIRING TO ACCOMMODATE PROPOSED FIXTURE IN ALTERNATE LOCATION.
2. EXISTING LIGHT FIXTURE, AND ANY RELATED WIRING AND/OR SWITCHING, TO REMAIN.
3. REMOVE EXISTING SWITCH: MAINTAIN CIRCUIT FOR RE-USE.
4. EXISTING DEVICE, AND ANY RELATED WIRING AND/OR SWITCHING, TO REMAIN.
5. REMOVE AND REPLACE EXISTING DEVICE: MAINTAIN CIRCUIT FOR RE-USE. CONTRACTOR MAY NEED TO EXTEND OR RE-ROUTE WIRING TO ACCOMMODATE PROPOSED DEVICE IN ALTERNATE LOCATION.
7. EXISTING LIGHT FIXTURE SHALL BE REMOVED AND RELATED WIRING SHALL BE CAPPED AND ABANDONED IN PLACE: MAINTAIN CIRCUIT CONTINUITY.
8. REMOVE ALL BRANCH WIRING FROM EXHAUST FAN IN ATTIC BACH TO SOURCE PANEL. SEE MECHANICAL DRAWINGS FOR REMOVALS.

### ELECTRICAL INSTALLATION: (CIRCLE)

1. PROVIDE FIXTURE PER LIGHTING FIXTURE AND CONTROL DEVICE SCHEDULE, SHEET E001. RE-CONNECT AS NECESSARY TO EXISTING CIRCUIT.
2. EXISTING LIGHT FIXTURE, AND ANY RELATED WIRING AND/OR SWITCHING, SHOWN IN EXISTING LOCATION FOR REFERENCE.
3. PROVE LOVE VOLTAGE OVERRIDE SWITCH AND WIRE TO POWERPACK RELAY. EXTEND EXISTING LIGHTING CIRCUIT TO THE POWER PACK RELAY.
4. EXISTING DEVICE, AND ANY RELATED WIRING AND/OR SWITCHING, SHOWN IN EXISTING LOCATION FOR REFERENCE.
5. PROVIDE DEVICE: RE-CONNECT AS NECESSARY TO EXISTING CIRCUIT.
7. CONNECT EXHAUST FAN TO EXISTING SWITCHED LIGHTING CIRCUIT OF AREA BEING SERVED: WIRE AS SHOWN.
8. PROVIDE A CALL FOR AID SWITCH AND STROBE AS SHOWN. SEE GENERAL ELECTRICAL NOTES.
9. PROVIDE POWER CONNECTION FOR POWER DOOR OPENER. CONNECT TO EXISTING LOCAL POWER CIRCUIT SERVING BATHROOM RECEPTACLES.



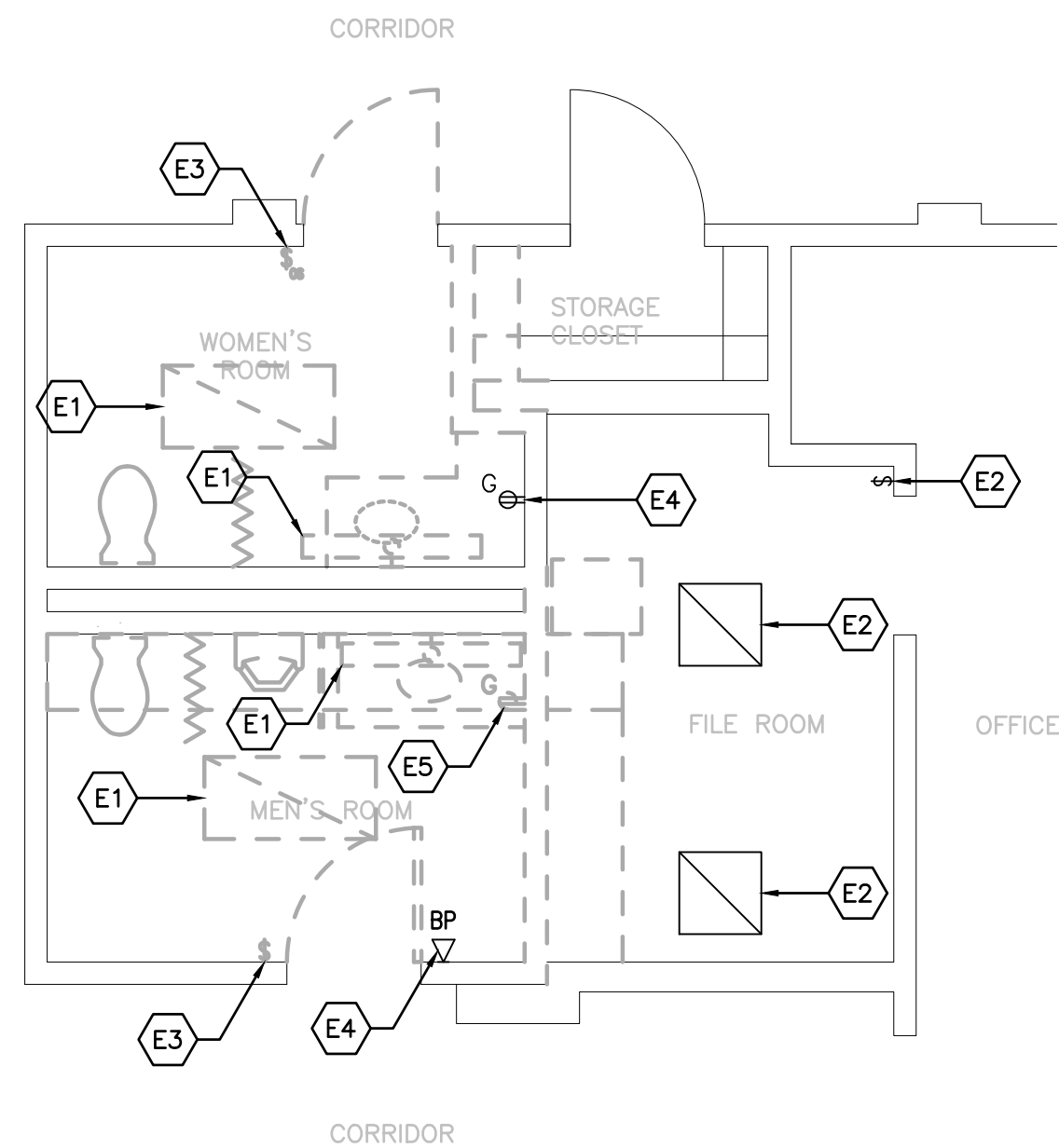
- SEQUENCE:
1. UPON DETECTING OCCUPANCY, THE LIGHTS SHALL BE TURNED ON.
  2. AFTER 15 MINUTES OF NO OCCUPANCY DETECTED, LIGHTS SHALL TURN OFF.
  3. A PRESS OF THE MOMENTARY SWITCH SHALL TURN THE LIGHTS ON FOR 15 MINUTES.

## CEILING MOUNT OCCUPANCY SENSOR DETAIL

7

E100

NO SCALE

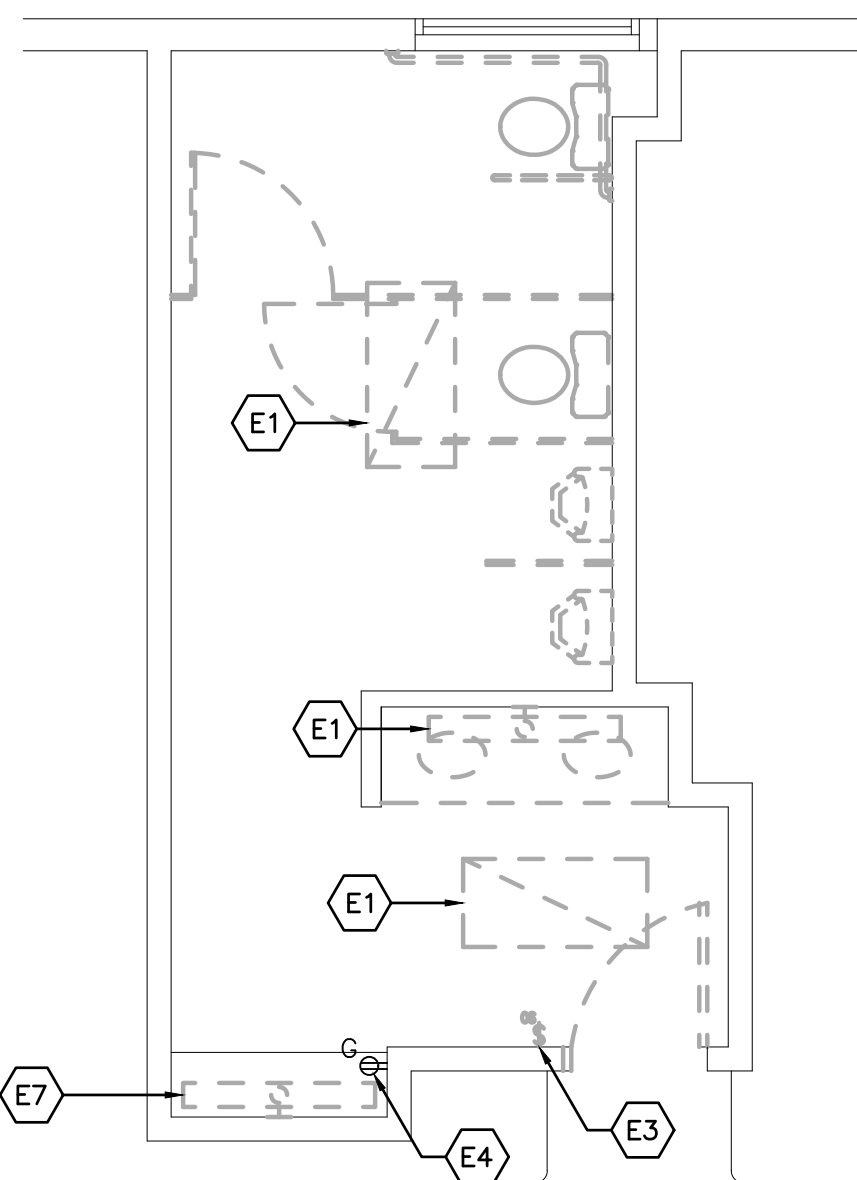
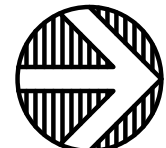


## ELECTRICAL DEMOLITION LOWER LEVEL TOILET ROOMS

1

E100

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

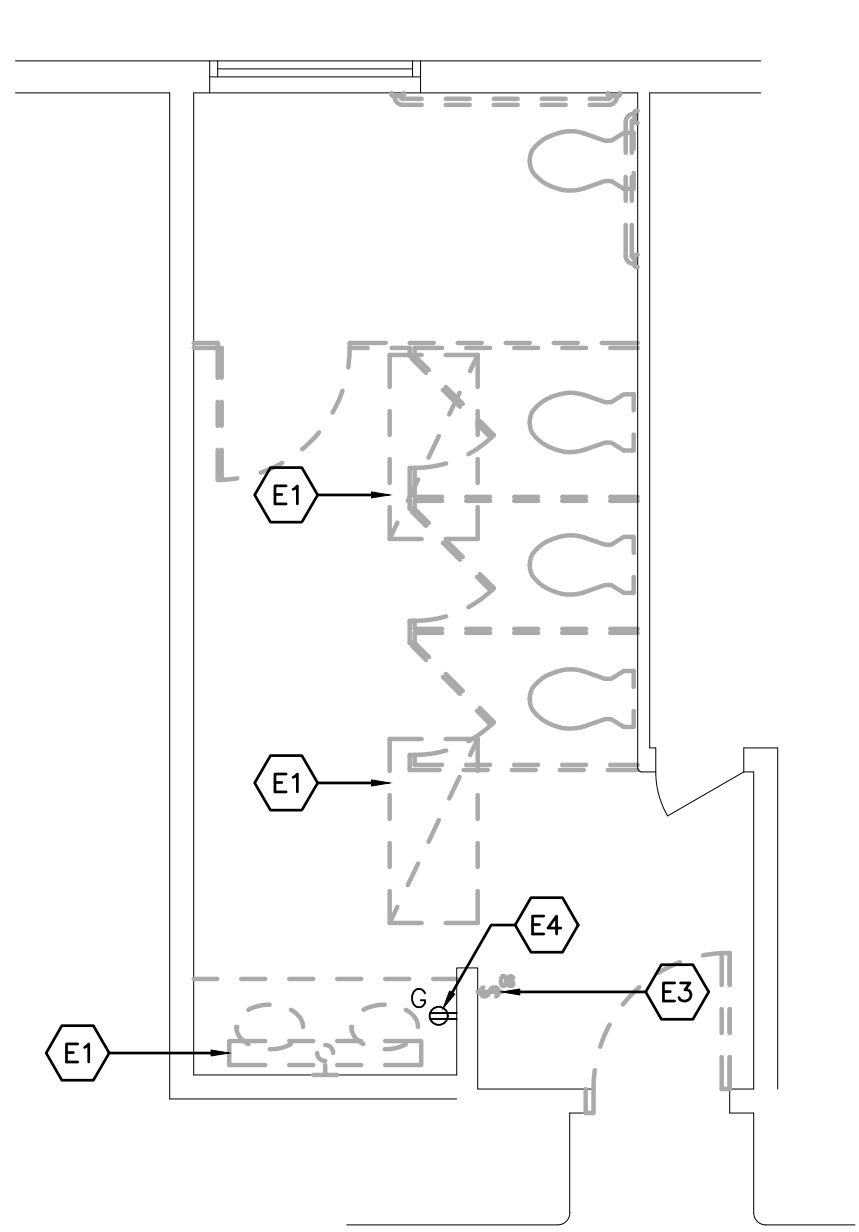
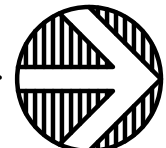


## ELECTRICAL DEMOLITION UPPER LEVEL MENS ROOM

2

E100

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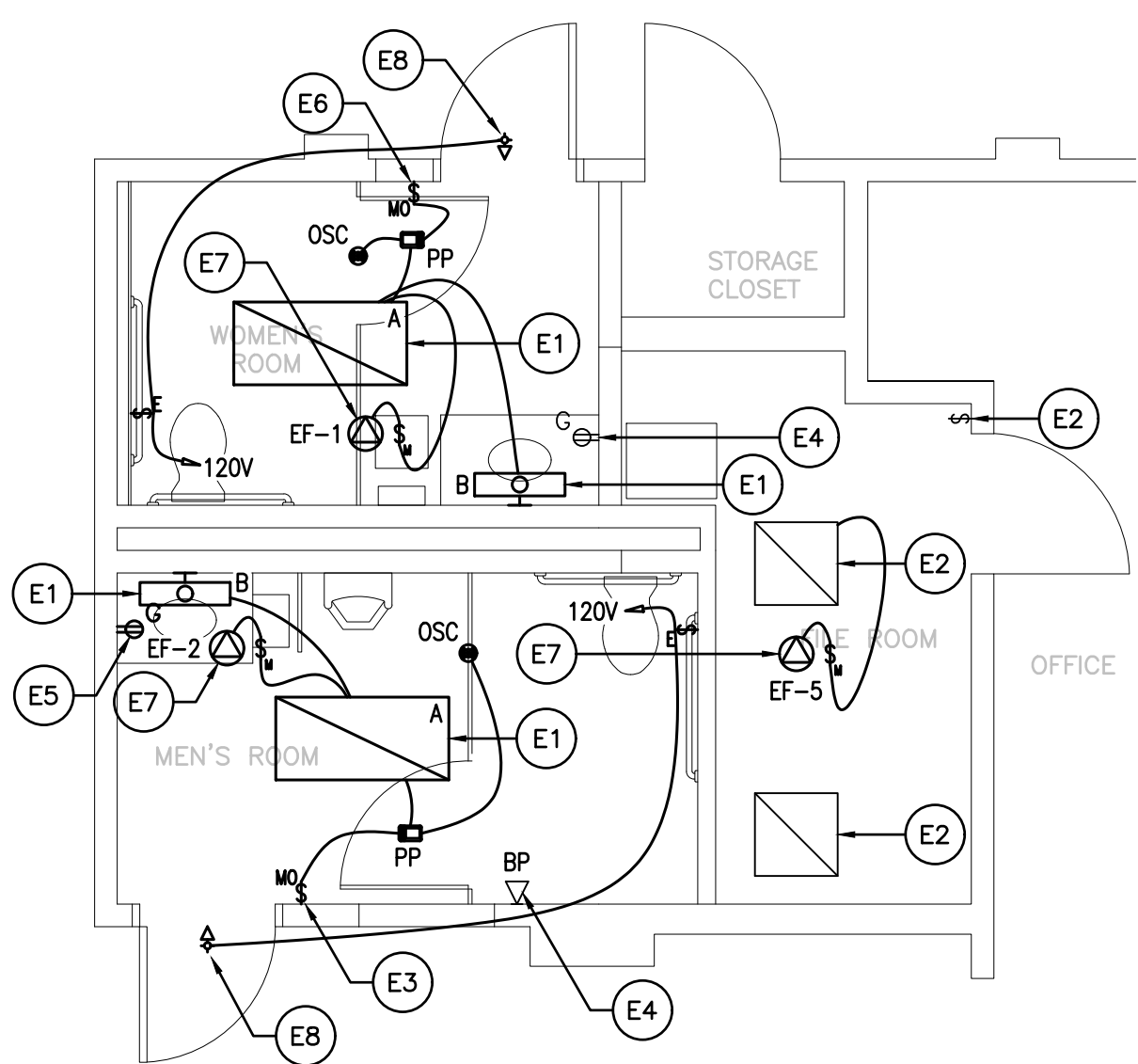
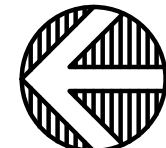


## ELECTRICAL DEMOLITION UPPER LEVEL WOMENS ROOM

3

E100

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

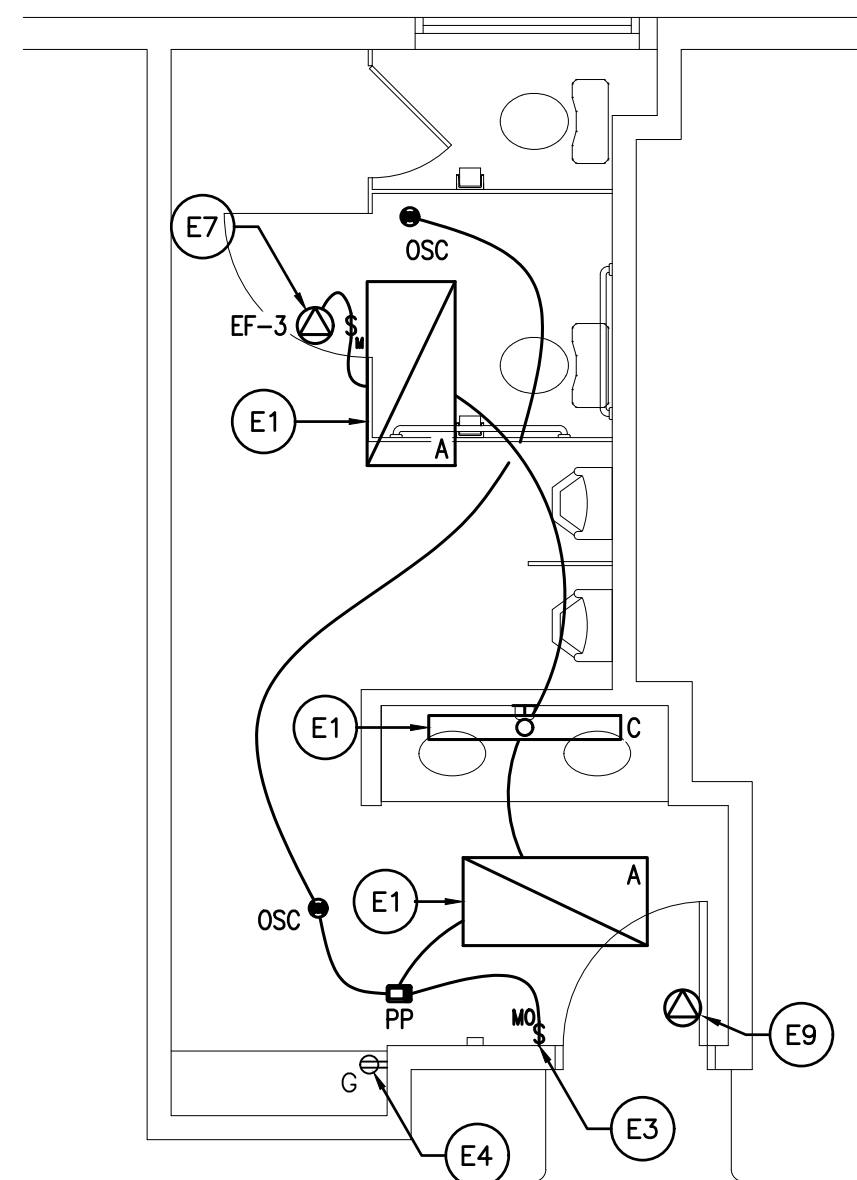
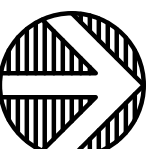


## ELECTRICAL INSTALLATION LOWER LEVEL TOILET ROOMS

4

E100

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

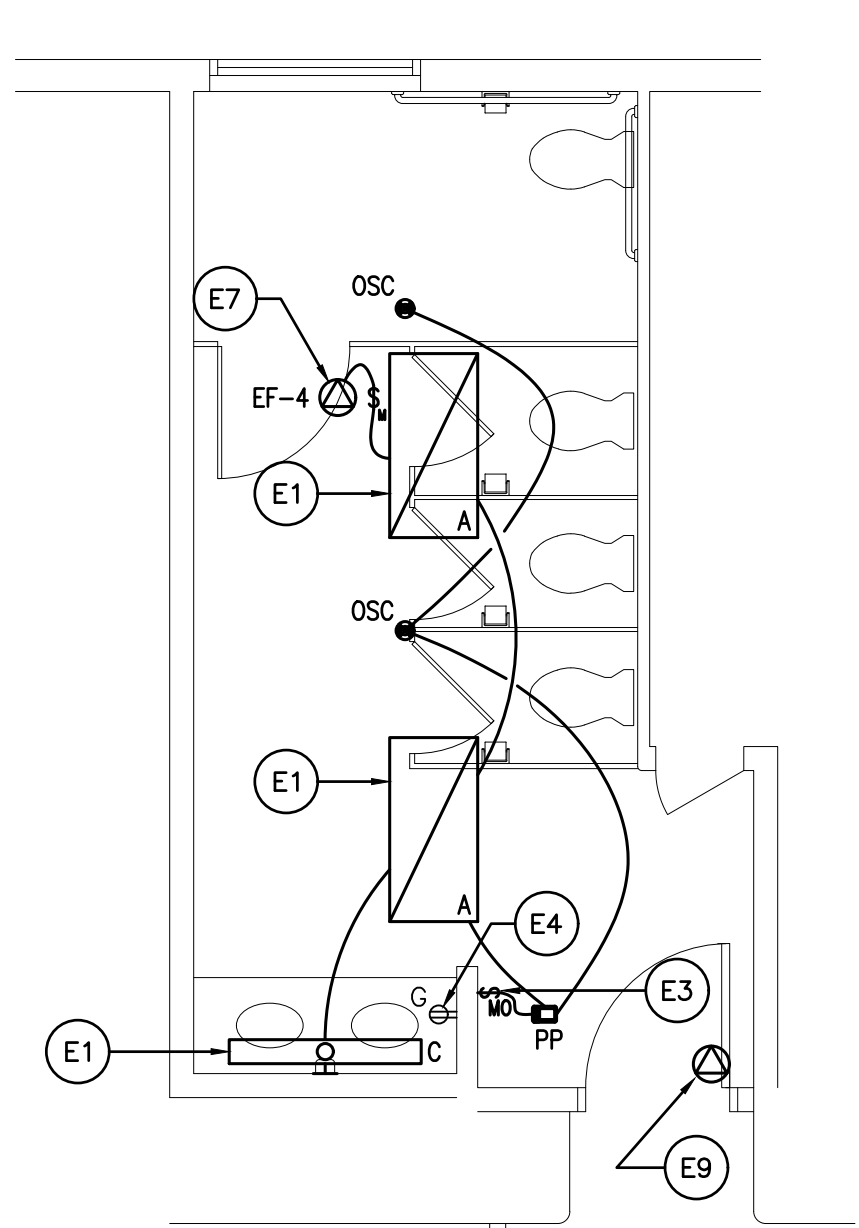


## ELECTRICAL INSTALLATION UPPER LEVEL MENS ROOM

5

E100

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



## ELECTRICAL INSTALLATION UPPER LEVEL WOMENS ROOM

6

E100

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

