

## INVITATION TO BID

The City of Unalaska (Owner) is soliciting bids for the **Aquatics Center Improvements** Project.

The work includes, but is not limited to, furnishing all labor, tools, equipment, and materials and performing all operations in connection with the following scope of work:

1. Base Bid:

- a. Architectural, Mechanical, and Electrical work to remodel the existing locker rooms.
- b. Converting an existing office to a new sauna room.
- c. Removal of existing sauna and converting the area into a new staff locker room.
- d. Removal of existing staff locker rooms and converting the area into new ADA compliant family locker room.
- e. Reconfiguration of an existing storage room into a new communications room on the second level.
- f. Mechanical modifications and pump upgrades.
- g. Electrical modifications and upgrades.
- h. Misc. repairs.
- i. Contractor is responsible for coordinating and designing extensions or reconfiguration of existing sprinkler system and submitting design of the sprinkler system to the Fire Marshal.

2. Bid Alternates:

- a. New card lock door entry system.
- b. New camera surveillance system.
- c. New sound system.
- d. New ice maker.
- e. Remove existing pool deck drain and install new drain including work to refinish pool deck.

The work will be constructed under a single prime fixed price contract.

Technical questions shall be directed in writing to Tom Cohenour, Director of Public Works, PO Box 610, Unalaska, Alaska 99685 [tcohenour@ci.unalaska.ak.us](mailto:tcohenour@ci.unalaska.ak.us).

Plans are available on the City of Unalaska website free of charge. The Project Manual will be available December 1, 2015 on the City website.

Sealed bids will be received until **2:00 p.m. (local time) on January 20, 2016**, at which time all bids will be publicly opened and read aloud. Any bids received after the time and date specified will not be considered.

# **CITY OF UNALASKA - AQUATICS CENTER IMPROVEMENTS**

## **55 EAST BROADWAY**

## **UNALASKA, ALASKA**

**UNALASKA PROJECT NUMBER : 15101**

# **CONSTRUCTION DOCUMENTS**

**November 15, 2015**

### **ARCHITECT**

WOLF ARCHITECTURE  
625 South Cobb, Suite 200  
PALMER, ALASKA 99645  
(907) 746-6670

### **MECHANICAL/ELECTRICAL ENGINEER**

HAY, ZIETLOW & ASSOCIATES, LLC  
113 WEST NORTHERN LIGHTS BOULEVARD, #240  
ANCHORAGE, ALASKA 99503-2600  
(907) 562-1012

### **COST ESTIMATING**

HMS, INC.  
4103 MINNESOTA DRIVE  
ANCHORAGE, ALASKA 99503



| ABBREVIATIONS |  |  |   |
|---------------|--|--|---|
| Δ & #         | Addendum<br>And<br>Angle<br>Centerline<br>Diameter or Round<br>Found or Number | CA.<br>GALV.<br>G.B.<br>G.W.B.<br>GYM.<br>GYP. | Gauge<br>Gallon<br>Galvanized<br>Grab Bar<br>Gypsum Wall Board<br>Gymnasium<br>Gypsum |
| ADD.          | Additive   | H.B.   | Hose Bib  |
| ALT.          | Alternate  | H.C.   | Hollow Core   |
| ALUM.         | Aluminum   | H.D.   | Hand  |
| APPROX.       | Approximate  | H.W.D.   | Hardwood  |
| ARCH.         | Architectural  | H.W.R.   | Hardware  |
| AVG.          | Average  | H.M.   | Horizontal  |
| BD.           | Board  | HR.  | Hour  |
| BLDG.         | Building   | HORIZ.   | Horizontal  |
| BLK.          | Blocking   | H.W.   | Hot Water   |
| BLKG.         | Blocking   | H.WY.  | Highway   |
| B.M.          | Bench Mark   | I.D.   | Inside Diameter   |
| B.O.          | Bottom of  | (T) IN.  | Inches  |
| B.U.R.        | Bottom-up Roof   | INSUL.   | Insulation  |
| CIRC.         | Circular   | INT.   | Interior  |
| CLG.          | Ceiling  | JAN.   | Janitor   |
| CLO.          | Closet   | JT.  | Joint   |
| CLR.          | Clear  |  |   |
| C.M.U.        | Concrete Masonry Unit  |  |   |
| COL.          | Column   |  |   |
| CONC.         | Concrete   |  |   |
| CONT.         | Continuous   |  |   |
| C.T.          | Ceramic Tile   |  |   |
| CTR.          | Center   |  |   |
| CTR/G.        | Covering   |  |   |
| CTD           | Contract Furnish/Contract Install  |  |   |
| DBL.          | Double   |  |   |
| DEPT.         | Department   |  |   |
| D.F.          | Drinking Fountain  |  |   |
| DET.          | Detail   |  |   |
| DIA.          | Diameter   |  |   |
| DIAG.         | Diagonal   |  |   |
| DIM.          | Dimension  |  |   |
| DISP.         | Dispenser  |  |   |
| DN.           | Down   |  |   |
| DWG.          | Drawings   |  |   |
| EA.           | Each   |  |   |
| EIFS.         | Exterior Insulation & Finish System  |  |   |
| ELEV.         | Elevation  |  |   |
| ELEC.         | Electrical   |  |   |
| EQU.          | Equipment  |  |   |
| EQUIP.        | Equipment  |  |   |
| EXT.          | Existing   |  |   |
| EXP.          | Expansion  |  |   |
| EXP-JT.       | Expansion Joint  |  |   |
| EXT.          | Exterior   |  |   |
| F.D.          | Fire Drain   |  |   |
| F.E.          | Fire Extinguisher  |  |   |
| F.E.C.        | Fire Extinguisher Cabinet  |  |   |
| FIN.          | Finish   |  |   |
| F.F.          | Finish Floor   |  |   |
| FLR.          | Floor  |  |   |
| FLUOR.        | Fluorescent  |  |   |
| F.O.          | Face of  |  |   |
| FRT           | Fire-Retardant Treated   |  |   |
| FT.           | Foot or Feet   |  |   |
| FTG.          | Footing  |  |   |

| DRAWING CONVENTIONS          |                                |                               |  |
|------------------------------|--------------------------------|-------------------------------|--|
| <br>GRID NUMBER<br>GRID LINE | <br>SECTION NUMBER<br>CATEGORY | <br>DETAIL NUMBER<br>CATEGORY |  |
| <br>DOOR NUMBER              | <br>BUILDING OR WALL SECTION   | <br>ROOM NAME<br>ROOM NUMBER  |  |
| <br>ELEVATION                | <br>PARTITION TYPE             | <br>DETAIL NUMBERING          |  |
| <br>REVISION                 | <br>WINDOW TYPE                | <br>CONSTRUCTION ASSEMBLY     |  |

| GENERAL NOTES |   |
|---------------|---|
| 1.            | DIMENSIONS NOTED ARE TO FRAMING OR GRIDLINE AND ARE A MINIMUM UNLESS NOTED OTHERWISE, MINIMUM CLEAR DIMENSIONS ARE SHOWN TO FACE OF FINISH MUST BE MAINTAINED.  |
| 2.            | ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE MOST RECENTLY ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, THE NATIONAL ELECTRICAL CODE, NATIONAL FIRE CODE, AND ALL OTHER LOCAL AND ALASKA STATE REQUIREMENTS AND AMENDMENTS. |
| 3.            | WALL AND ROOF VAPOR RETARDER SHALL BE CONTINUOUS AND ALL JOINTS AND SPICES SEALED. ALL PENETRATIONS SHALL BE CAREFULLY SEALED, CAULKED OR GASKETED.   |
| 4.            | GENERAL CONTRACTOR TO PROVIDE ALL REQUIRED AND ACCESSORY BLOCKING THROUGHOUT BUILDING.  |
| 5.            | CONTRACTOR RESPONSIBLE TO PROVIDE COMPLETE INSTALLED SYSTEMS AND ASSEMBLIES WITH MANUFACTURER, FLASHING AND ACCESSORIES AS REQUIRED FOR WARRANTY WHICH MAY BE AVAILABLE TO OWNER.   |

| ADDITIVE ALTERNATES |  |
|---------------------|--|
| ALT #1:             | PROVIDE A CARD LOCK DOOR ENTRY SYSTEM. (REFER TO ELECTRICAL)                                       |
| ALT #2:             | PROVIDE CAMERA SURVEILLANCE SYSTEM (REFER TO ELECTRICAL)   |
| ALT #3:             | PROVIDE NEW SOUND SYSTEM. (REFER TO ELECTRICAL)  |
| ALT #4:             | PROVIDE AN ICE MACHINE. (REFER TO MECHANICAL & ELECTRICAL)   |
| ALT #5:             | REPLACE POOL PERIMETER DRAIN AND DRAIN COVER ASSEMBLY. 2) PROVIDE EPOXY FLOORING ON THE POOL DECK. |

| TYPICAL ASSEMBLIES               |                               |
|----------------------------------|-------------------------------|
| INTERIOR WALL ASSEMBLIES         |                               |
| <br>W1 INTERIOR WALL SAUNA       | <br>W2 INTERIOR WALL 4" STUD  |
| <br>W2A INTERIOR WALL 6" STUD    | <br>W3 INTERIOR WALL @ SHOWER |
| <br>W4 INTERIOR WALL @ SHOWER    | <br>W5 INTERIOR WALL @ SHOWER |
| <br>W4A INTERIOR WALL @ WET AREA | <br>W6 INTERIOR WALL @ SHOWER |

|                              |                              |
|------------------------------|------------------------------|
| <br>W7 INTERIOR WALL 4" STUD | <br>W8 INTERIOR WALL 4" STUD |
| <br>W1 INTERIOR WALL         |                              |

Diagram illustrating the CEILING ASSEMBLY @ SAUNA. The assembly consists of the following layers (from top to bottom):

- EXISTING SOFFIT FRAMING - ASSUME NEW 2x4 WOOD FRAMING REQUIRED ABOVE SAUNA TO SUPPORT NEW CEDAR CEILING
- NEW FOIL VAPOR RETARDER
- R 21 INSULATION ABOVE SAUNA, TYP
- NEW 1x4 T&G CEDAR FINISH CEILING SUPPLIED AS PART OF SAUNA PACKAGE

C1

CEILING ASSEMBLY @  
SAUNA

Diagram illustrating a TYPICAL NEW FLOOR PATCH. The assembly consists of the following layers (from top to bottom):

- NEW FLOOR SURFACING AND CEMENTITIOUS BUILD UP WHERE OCCURS
- NEW CONCRETE SLAB ON GRADE - MATCH THICKNESS OF EXISTING
- REPLACE DAMAGED EXISTING VAPOR RETARDER WITH NEW CLASS A 10 MIL VAPOR RETARDER

F1 TYPICAL NEW FLOOR PATCH

CEILING ASSEMBLY

FLOOR ASSEMBLY



## CHAPTER 3: BUILDING BLOCKS

### 302 FLOOR OR GROUND SURFACES

302.2 CARPET, CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD, OR BACKING OR NO CUSHION OR PAD. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/UNCUT PILE TEXTURE. PILE HEIGHT SHALL BE 1/2 INCH (13 MM) MAXIMUM. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH 303.

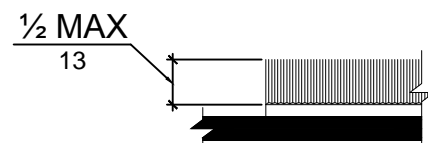


FIGURE 302.2 CARPET PILE HEIGHT

302.3 OPENINGS. OPENINGS IN FLOOR OR GROUND SURFACES SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN 1/2 INCH (13 MM) DIAMETER EXCEPT AS ALLOWED IN 407.4.3, 408.4.3, 410.4, 810.5.3 AND 810.10. ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL.

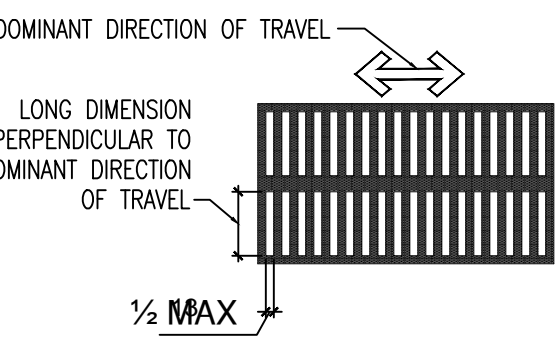


FIGURE 302.3 ELONGATED OPENINGS IN FLOOR OR GROUND SURFACES

302.3.2 VERTICAL. CHANGES IN LEVEL OF 1/4 INCH (6.4 MM) HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL.

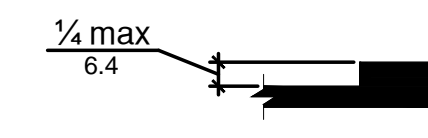


Figure 302.3.2 Vertical Change in Level

302.3.3 BEVELED. CHANGES IN LEVEL BETWEEN 1/4 INCH (6.4 MM) HIGH MINIMUM AND 1/2 INCH (13 MM) HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2.

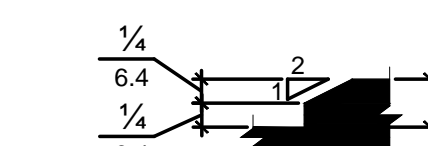


FIGURE 302.3.3 BEVELED CHANGE IN LEVEL

### 304 TURNING SPACE

304.3.1 CIRCULAR SPACE. THE TURNING SPACE SHALL BE A SPACE OF 60 INCHES (1525 MM) DIAMETER MINIMUM. THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306.

304.3.2 T-SHAPED SPACE. THE TURNING SPACE SHALL BE A T-SHAPED SPACE WITHIN A 60 INCH (1525 MM) SQUARE MINIMUM WITH ARMS AND BASE 36 INCHES (915 MM) WIDE MINIMUM. EACH ARM OF THE T SHALL BE CLEAR OF OBSTRUCTIONS 12 INCHES (305 MM) MINIMUM IN EACH DIRECTION AND THE BASE SHALL BE CLEAR OF OBSTRUCTIONS 24 INCHES (610 MM) MINIMUM. THE SPACE SHALL BE PERMITTED TO INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 306 ONLY AT THE END OF EITHER THE BASE OR ONE ARM.

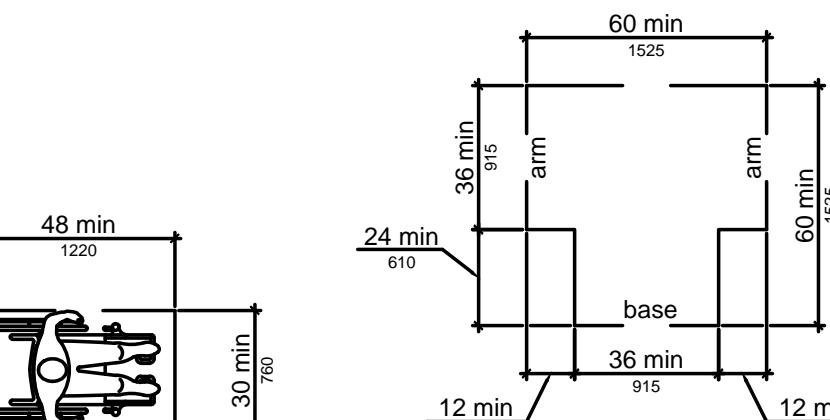


FIGURE 304.3.2 T-SHAPED TURNING SPACE

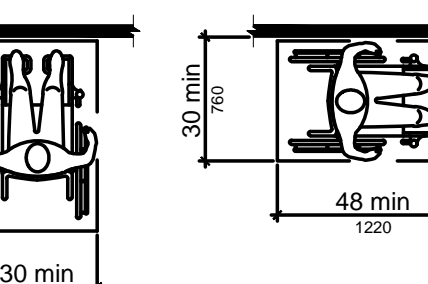


FIGURE 305.3 POSITION OF CLEAR FLOOR OR GROUND SPACE

305.7.1 FORWARD APPROACH. ALCOVES SHALL BE 36 INCHES (915 MM) WIDE MINIMUM WHERE THE DEPTH EXCEEDS 24 INCHES (610 MM).

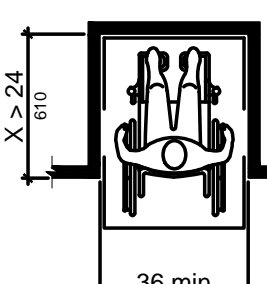


FIGURE 305.7.1 MANEUVERING CLEARANCE IN AN ALCOVE, FORWARD APPROACH

305.7.2 PARALLEL APPROACH. ALCOVES SHALL BE 60 INCHES (1525 MM) WIDE MINIMUM WHERE THE DEPTH EXCEEDS 15 INCHES (380 MM).

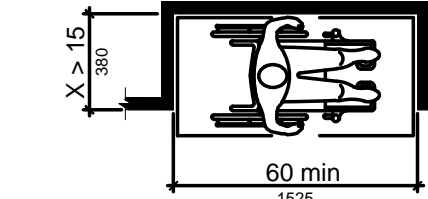


FIGURE 305.7.2 MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH

### 306 KNEE AND TOE CLEARANCE

#### 306.2 TOE CLEARANCE.

306.2.1 GENERAL. SPACE UNDER AN ELEMENT BETWEEN THE FINISH FLOOR OR GROUND AND 9 INCHES (230 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED KNEE CLEARANCE AND SHALL COMPLY WITH 306.2.

306.2.2 MAXIMUM DEPTH. TOE CLEARANCE SHALL EXTEND 25 INCHES (635 MM) MAXIMUM UNDER AN ELEMENT.

306.2.3 MINIMUM REQUIRED DEPTH. WHERE TOE CLEARANCE IS REQUIRED AT AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE TOE CLEARANCE SHALL EXTEND 17 INCHES (430 MM) MINIMUM UNDER THE ELEMENT.

306.2.4 ADDITIONAL CLEARANCE. SPACE EXTENDING GREATER THAN 6 INCHES (150 MM) BEYOND THE AVAILABLE KNEE CLEARANCE AT 9 INCHES (230 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL NOT BE CONSIDERED TOE CLEARANCE.

306.2.5 WIDTH. TOE CLEARANCE SHALL BE 30 INCHES (760 MM) WIDE MINIMUM.

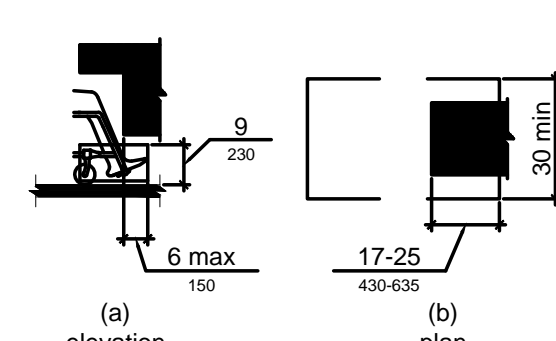


FIGURE 306.2 TOE CLEARANCE

### 306.3 KNEE CLEARANCE.

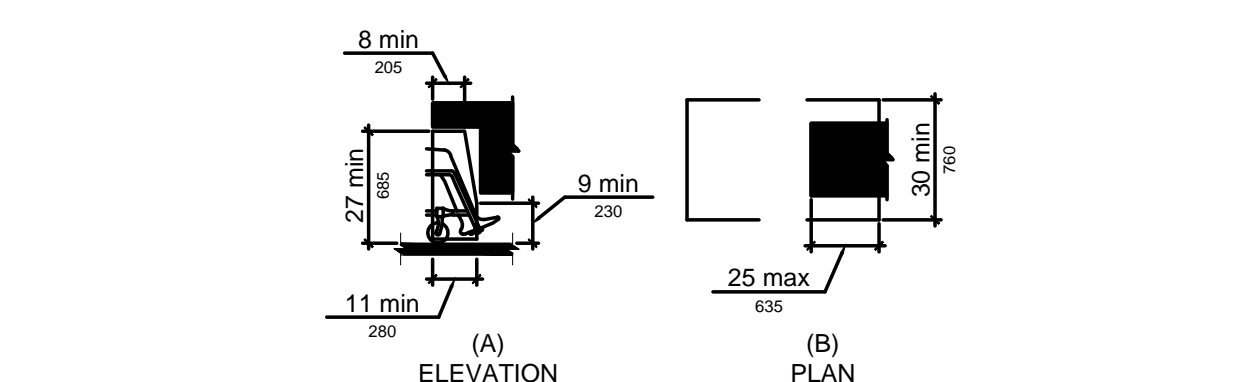
306.3.1 GENERAL. SPACE UNDER AN ELEMENT BETWEEN 9 INCHES (230 MM) AND 27 INCHES (685 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED KNEE CLEARANCE AND SHALL COMPLY WITH 306.3.

306.3.2 MAXIMUM DEPTH. KNEE CLEARANCE SHALL EXTEND 25 INCHES (635 MM) MAXIMUM UNDER AN ELEMENT AT 9 INCHES (230 MM) ABOVE THE FINISH FLOOR OR GROUND.

306.3.3 MINIMUM REQUIRED DEPTH. WHERE KNEE CLEARANCE IS REQUIRED UNDER AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE KNEE CLEARANCE SHALL BE 11 INCHES (280 MM) DEEP MINIMUM AT 9 INCHES (230 MM) ABOVE THE FINISH FLOOR OR GROUND, AND 8 INCHES (205 MM) DEEP MINIMUM AT 27 INCHES (685 MM) ABOVE THE FINISH FLOOR OR GROUND.

306.3.4 CLEARANCE REDUCTION. BETWEEN 9 INCHES (230 MM) AND 27 INCHES (685 MM) ABOVE THE FINISH FLOOR OR GROUND, THE KNEE CLEARANCE SHALL BE PERMITTED TO REDUCE AT A RATE OF 1 INCH (25 MM) IN DEPTH FOR EACH 6 INCHES (150 MM) IN HEIGHT.

306.3.5 WIDTH. KNEE CLEARANCE SHALL BE 30 INCHES (760 MM) WIDE MINIMUM.



### 307 PROTRUDING OBJECTS

307.2 PROTRUSION LIMITS. OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES (685 MM) AND NOT MORE THAN 80 INCHES (2030 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE 4 INCHES (100 MM) MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH.

EXCEPTION: HANDRAILS SHALL BE PERMITTED TO PROTRUDE 4 1/2 INCHES (115 MM) MAXIMUM.

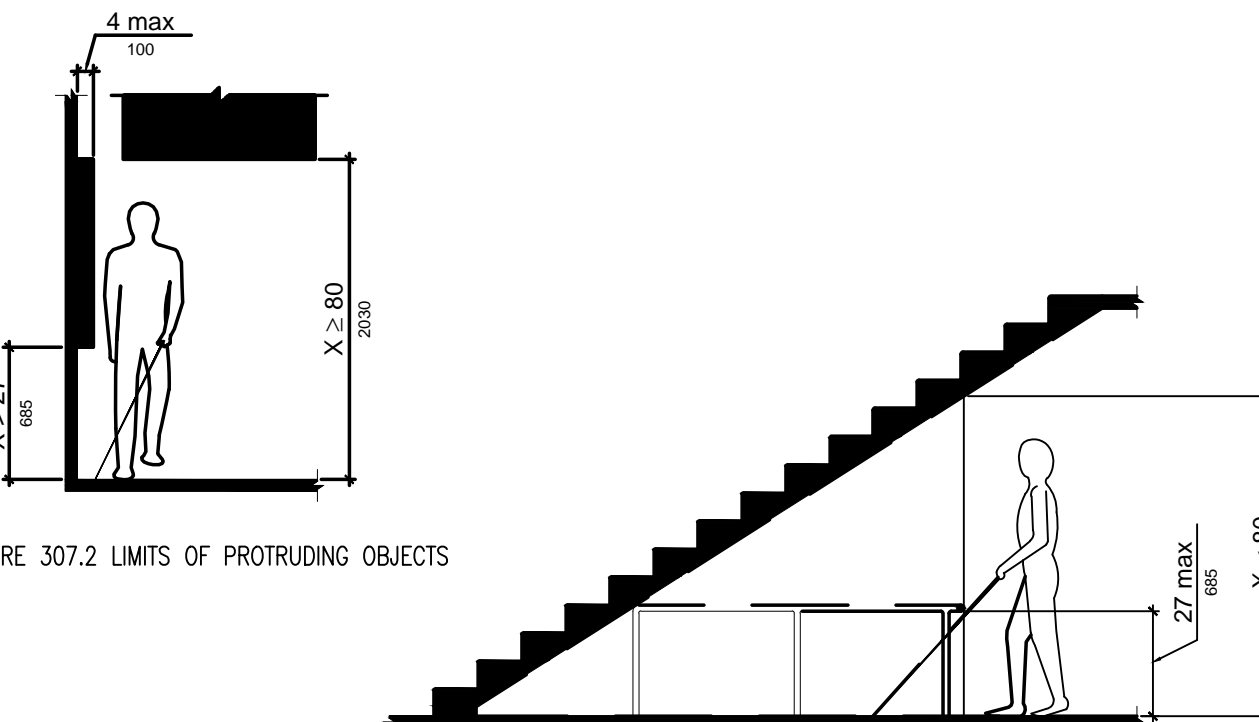


FIGURE 307.2 LIMITS OF PROTRUDING OBJECTS

### 308 REACH RANGES

#### CHILDREN'S REACH RANGES

|                   | FORWARD OR SIDE REACH HIGH (MAXIMUM) | LOW (MINIMUM)  |
|-------------------|--------------------------------------|----------------|
| AGES 3 AND 4      | 36 IN (915 MM)                       | 20 IN (510 MM) |
| AGES 5 THROUGH 8  | 40 IN (1015 MM)                      | 18 IN (455 MM) |
| AGES 9 THROUGH 12 | 44 IN (1120 MM)                      | 16 IN (405 MM) |

#### 308.2 FORWARD REACH.

308.2.1 UNOBSTRUCTED. WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48 INCHES (1220 MM) MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15 INCHES (380 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

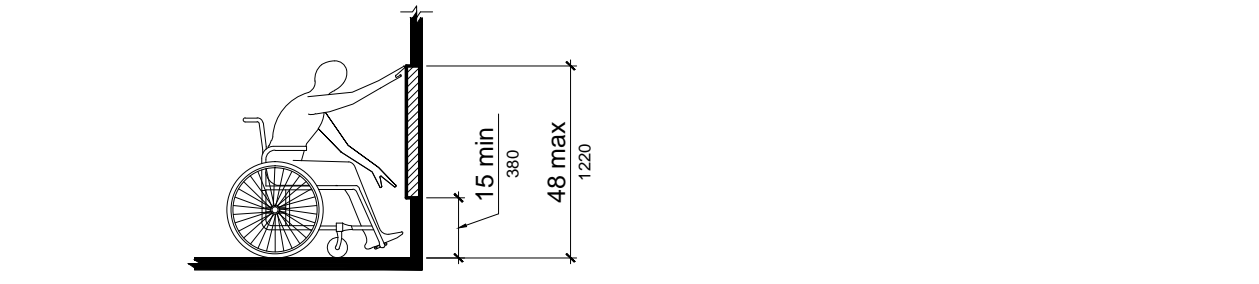
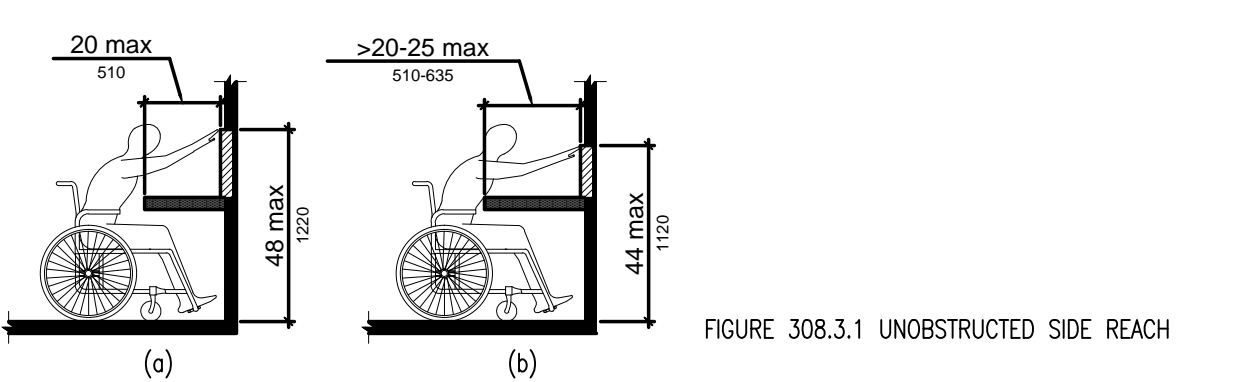


FIGURE 308.2.2 OBSTRUCTED HIGH FORWARD REACH

308.2.2 OBSTRUCTED HIGH REACH. WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE SHALL EXTEND BEHIND THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION. THE HIGH FORWARD REACH SHALL BE 48 INCHES (1220 MM) MAXIMUM WHERE THE REACH DEPTH IS 20 INCHES (510 MM) MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 20 INCHES (510 MM), THE HIGH FORWARD REACH SHALL BE 44 INCHES (1120 MM) MAXIMUM AND THE REACH DEPTH SHALL BE 25 INCHES (635 MM) MAXIMUM.



#### 308.3 SIDE REACH.

308.3.1 UNOBSTRUCTED. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE SIDE REACH IS UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 48 INCHES (1220 MM) MAXIMUM AND THE LOW SIDE REACH SHALL BE 15 INCHES (380 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

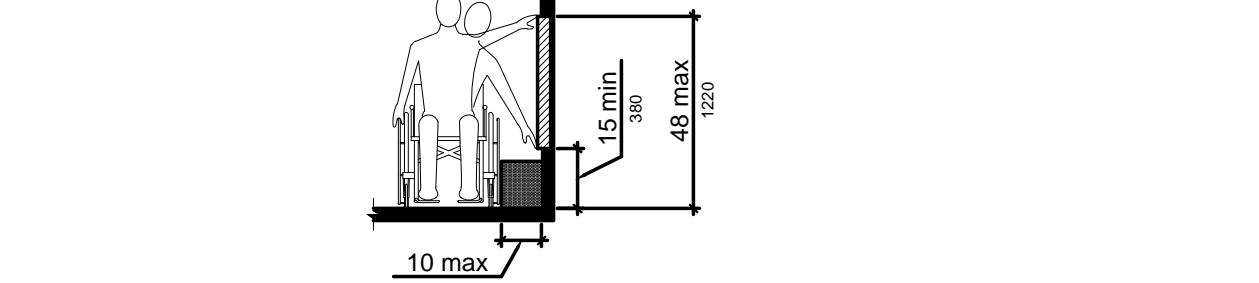


FIGURE 308.3.1 UNOBSTRUCTED SIDE REACH

308.3.2 OBSTRUCTED HIGH REACH. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES (865 MM) MAXIMUM AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24 INCHES (610 MM) MAXIMUM. THE HIGH SIDE REACH SHALL BE 48 INCHES (1220 MM) MAXIMUM FOR A REACH DEPTH OF 10 INCHES (255 MM) MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 10 INCHES (255 MM), THE HIGH SIDE REACH SHALL BE 46 INCHES (1170 MM) MAXIMUM FOR A REACH DEPTH OF 24 INCHES (610 MM) MAXIMUM.

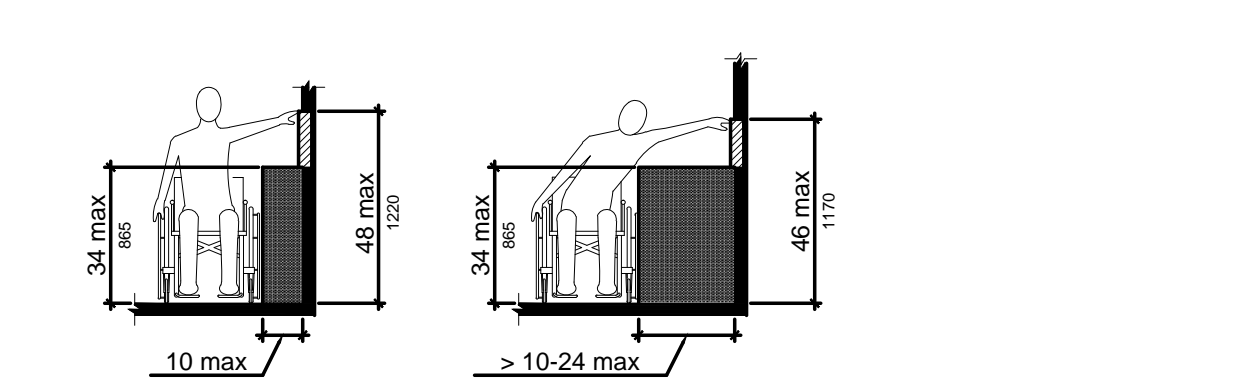


FIGURE 308.3.2 OBSTRUCTED HIGH SIDE REACH

### 309 OPERABLE PARTS

309.2 CLEAR FLOOR SPACE. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 SHALL BE PROVIDED.

309.3 HEIGHT. OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE OF THE REACH RANGES SPECIFIED IN 308.

309.4 OPERATION. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS (22.2 N) MAXIMUM.

## CHAPTER 4: ACCESSIBLE ROUTES

402.2 COMPONENTS. ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPONENTS: WALKING SURFACES WITH A RUNNING SLOPE NOT STEEPER THAN 1:20, DOORWAYS, RAMPS, CURB RAMPS EXCLUDING THE FLARED SIDES, ELEVATORS, AND PLATFORM LIFTS. ALL COMPONENTS OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF CHAPTER 4.

ADVISORY 402.2 COMPONENTS. WALKING SURFACES MUST HAVE RUNNING SLOPES NOT STEEPER THAN 1:20. SEE 403.3. OTHER COMPONENTS OF ACCESSIBLE ROUTES, SUCH AS RAMPS (405) AND CURB RAMPS (406), ARE PERMITTED TO BE MORE STEEPLY SLOPED.

### 403 WALKING SURFACES

403.1 GENERAL. WALKING SURFACES THAT ARE A PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH 403.

403.2 FLOOR OR GROUND SURFACES. FLOOR OR GROUND SURFACES SHALL COMPLY WITH 302.

403.3 SLOPE. THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48.

403.4 CHANGES IN LEVEL. CHANGES IN LEVEL SHALL COMPLY WITH 303.

403.5 CLEARANCES. WALKING SURFACES SHALL PROVIDE CLEARANCES COMPLYING WITH 403.5.

EXCEPTION: WITHIN EMPLOYEE WORK AREAS, CLEARANCES ON COMMON USE CIRCULATION PATHS SHALL BE PERMITTED TO BE DECREASED BY WORK AREA EQUIPMENT PROVIDED THAT THE DECREASE IS ESSENTIAL TO THE FUNCTION OF THE WORK BEING PERFORMED.

403.5.1 CLEAR WIDTH. EXCEPT AS PROVIDED IN 403.5.2 AND 403.5.3, THE CLEAR WIDTH OF WALKING SURFACES SHALL BE 36 INCHES (915 MM) MINIMUM.

EXCEPTION: THE CLEAR WIDTH SHALL BE PERMITTED TO BE REDUCED TO 32 INCHES (815 MM) MINIMUM FOR A LENGTH OF 24 INCHES (610 MM) MAXIMUM PROVIDED THAT REDUCED WIDTH SEGMENTS ARE SEPARATED BY SEGMENTS THAT ARE 48 INCHES (1220 MM) LONG MINIMUM AND 36 INCHES (915 MM) WIDE MINIMUM.

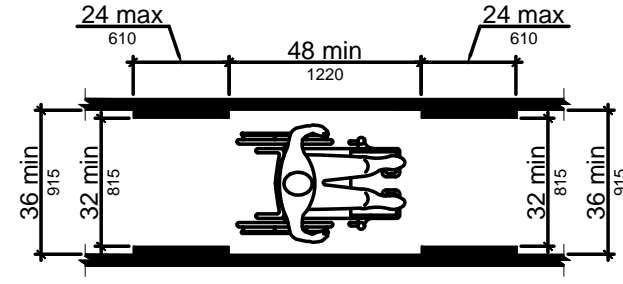


FIGURE 403.5.1 CLEAR WIDTH OF AN ACCESSIBLE ROUTE

403.5.2 CLEAR WIDTH AT TURN. WHERE THE ACCESSIBLE ROUTE MAKES A 180 DEGREE TURN AROUND AN ELEMENT WHICH IS LESS THAN 48 INCHES (1220 MM) WIDE, CLEAR WIDTH SHALL BE 42 INCHES (1065 MM) MINIMUM APPROACHING THE TURN, 48 INCHES (1220 MM) MINIMUM AT THE TURN AND 42 INCHES (1065 MM) MINIMUM LEAVING THE TURN.

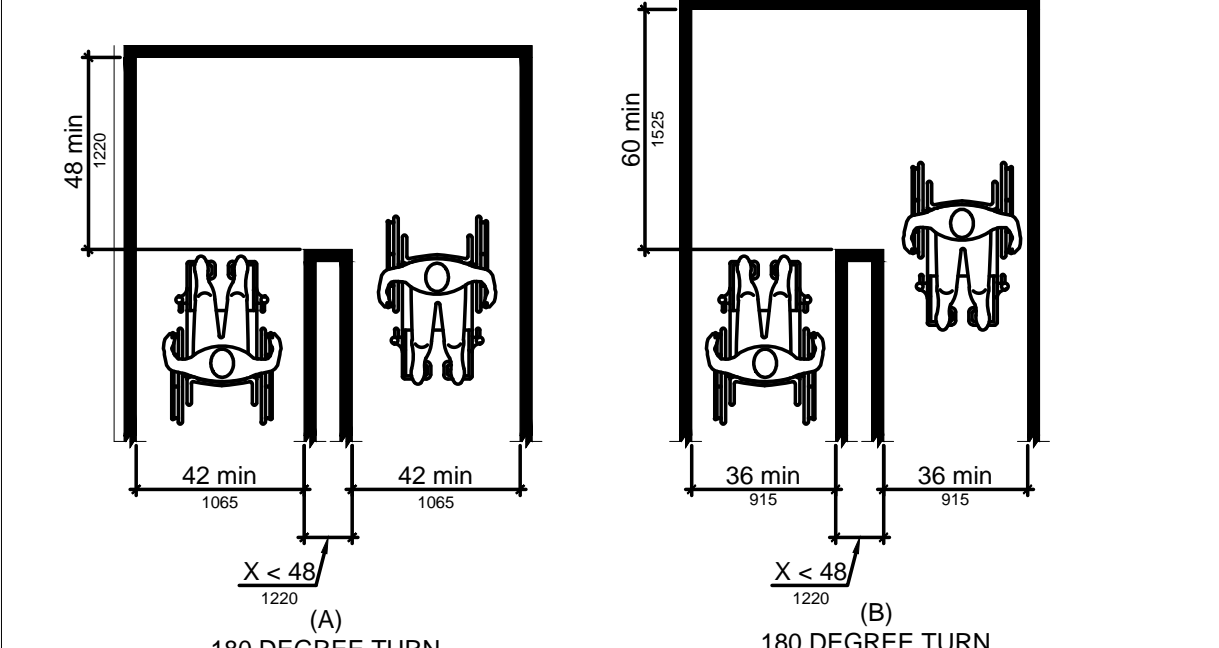


FIGURE 403.5.2 CLEAR WIDTH AT TURN

403.5.3 PASSING SPACES. AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN 60 INCHES (1525 MM) SHALL PROVIDE PASSING SPACES AT INTERVALS OF 200 FEET (61 M) MAXIMUM.

### 404 DOORS, DOORWAYS, AND GATES

404.2.3 CLEAR WIDTH. DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES (815 MM) MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP. WITH THE DOOR OPEN 90 DEGREES, OPENINGS MORE THAN 24 INCHES (610 MM) DEEP SHALL PROVIDE A CLEAR OPENING OF 36 INCHES (915 MM) MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WITH LOWER THAN 34 INCHES (865 MM) ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WITH BETWEEN 34 INCHES (865 MM) AND 80 INCHES (2030 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES (100 MM).

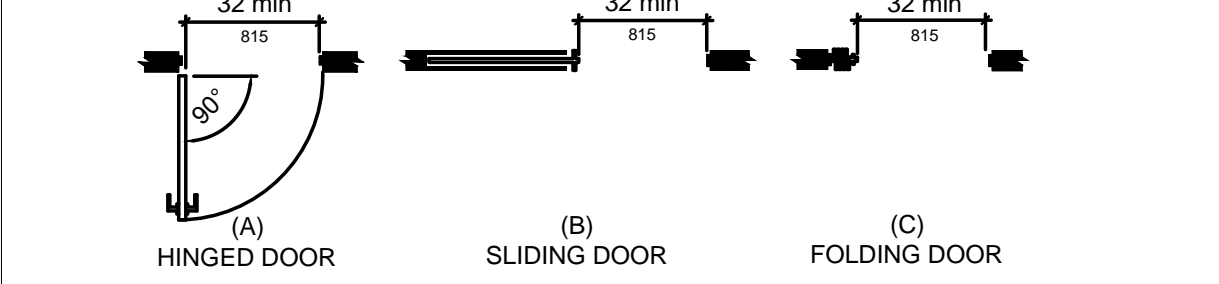


FIGURE 404.2.3 CLEAR WIDTH OF DOORWAYS

404.2.4 MANEUVERING CLEARANCES. MINIMUM MANEUVERING CLEARANCES AT DOORS AND GATES SHALL COMPLY WITH 404.2.4. MANEUVERING CLEARANCES SHALL EXTEND THE FULL WIDTH OF THE DOORWAY AND THE REQUIRED LATCH SIDE OR HINGE SIDE CLEARANCE.

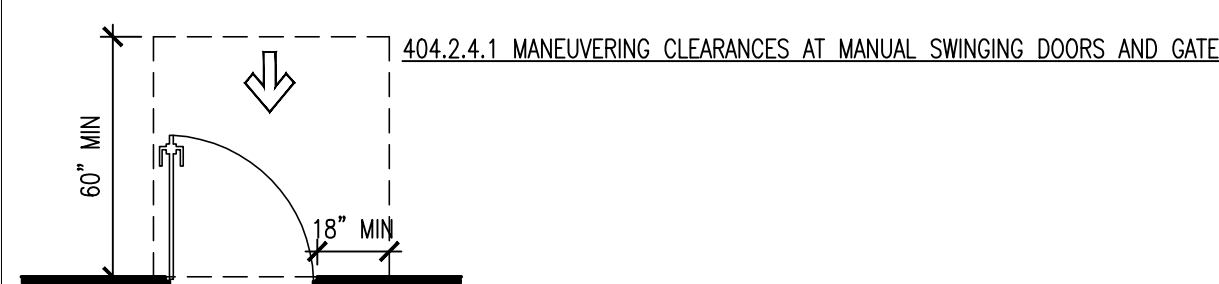


FIGURE 404.2.4 MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES

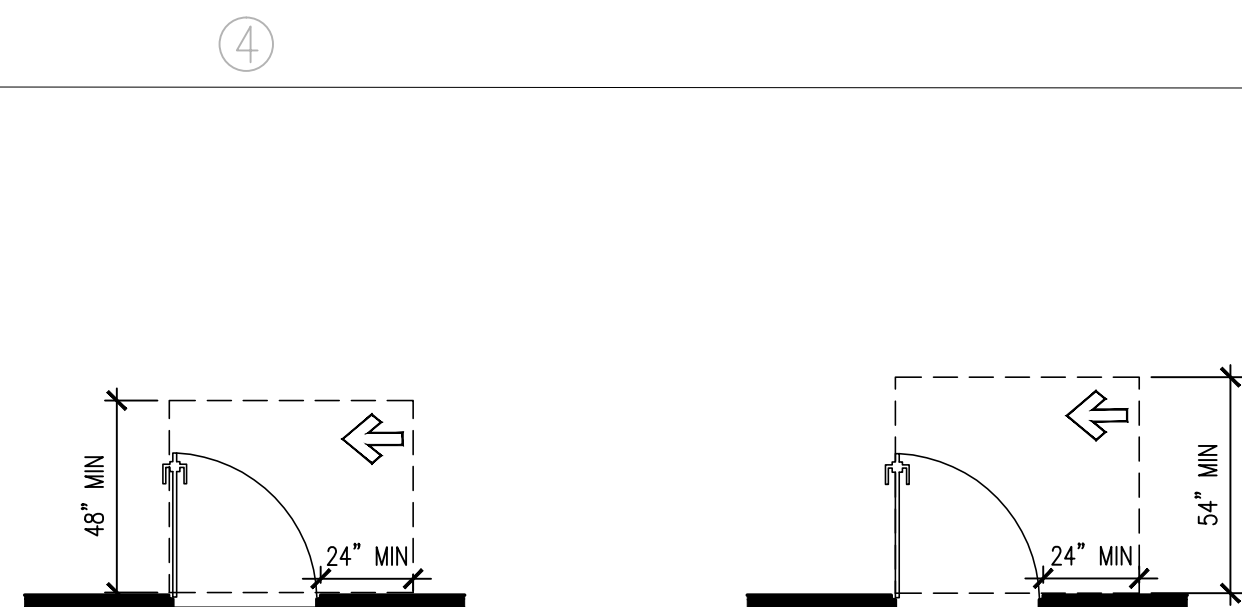
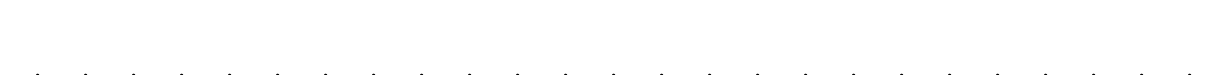
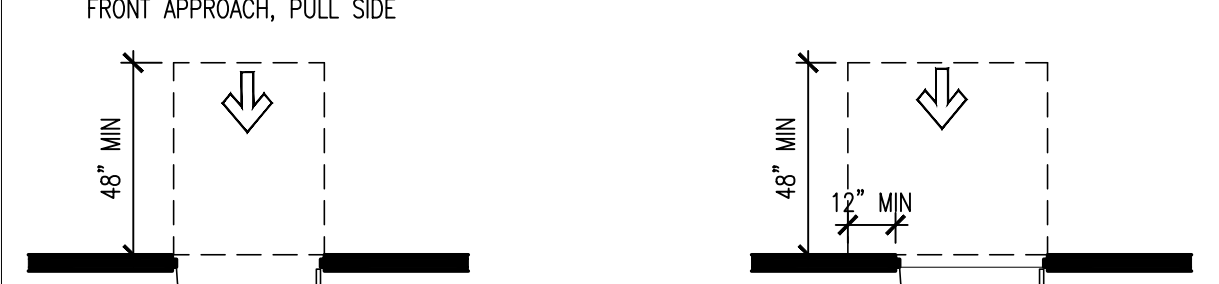
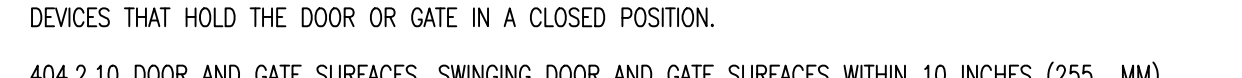
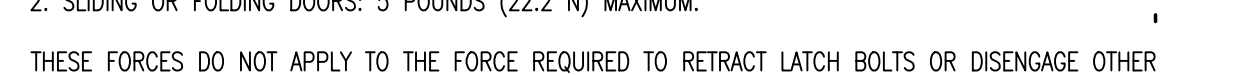
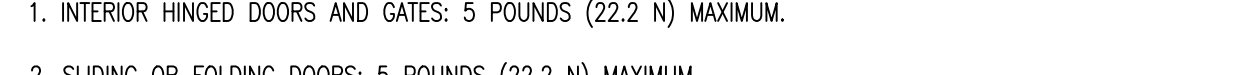
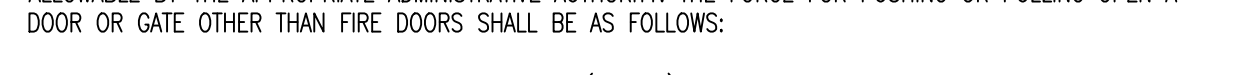
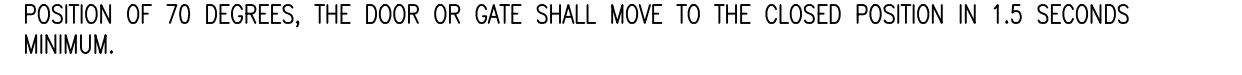
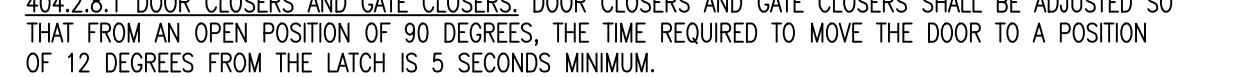
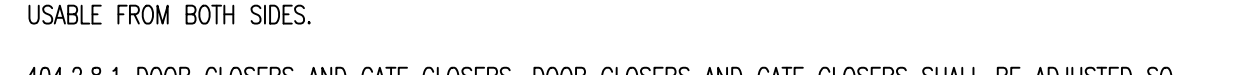
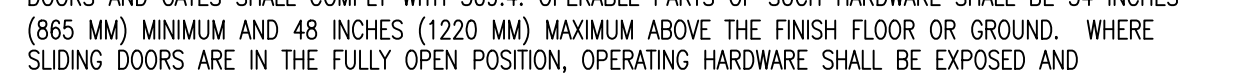
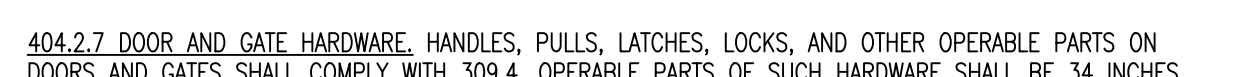
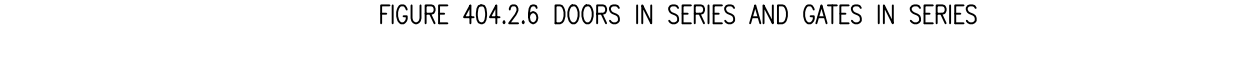
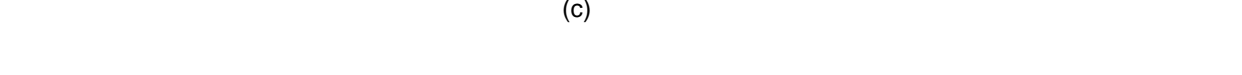
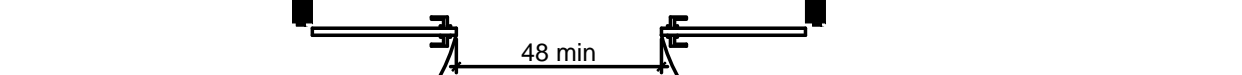
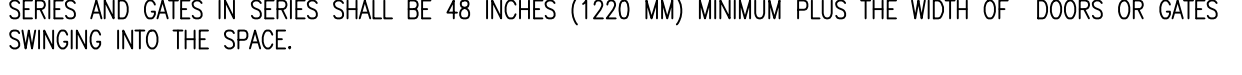
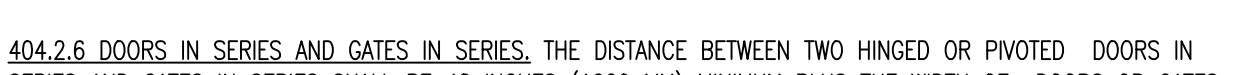
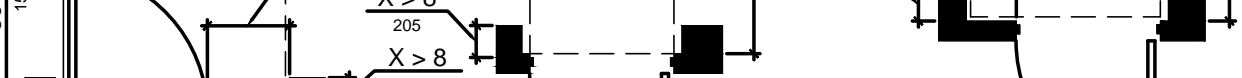
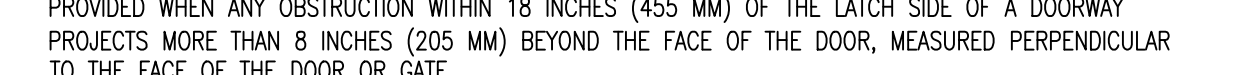
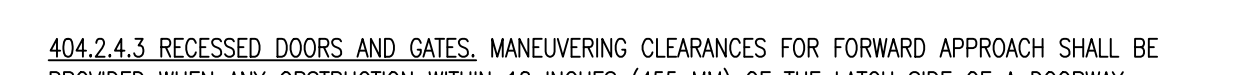
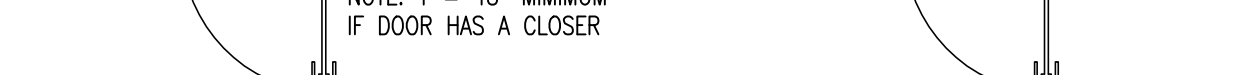


FIGURE 404.2.4.1 MANEUVERING CLEARANCES AT RECESSED DOORS AND GATES





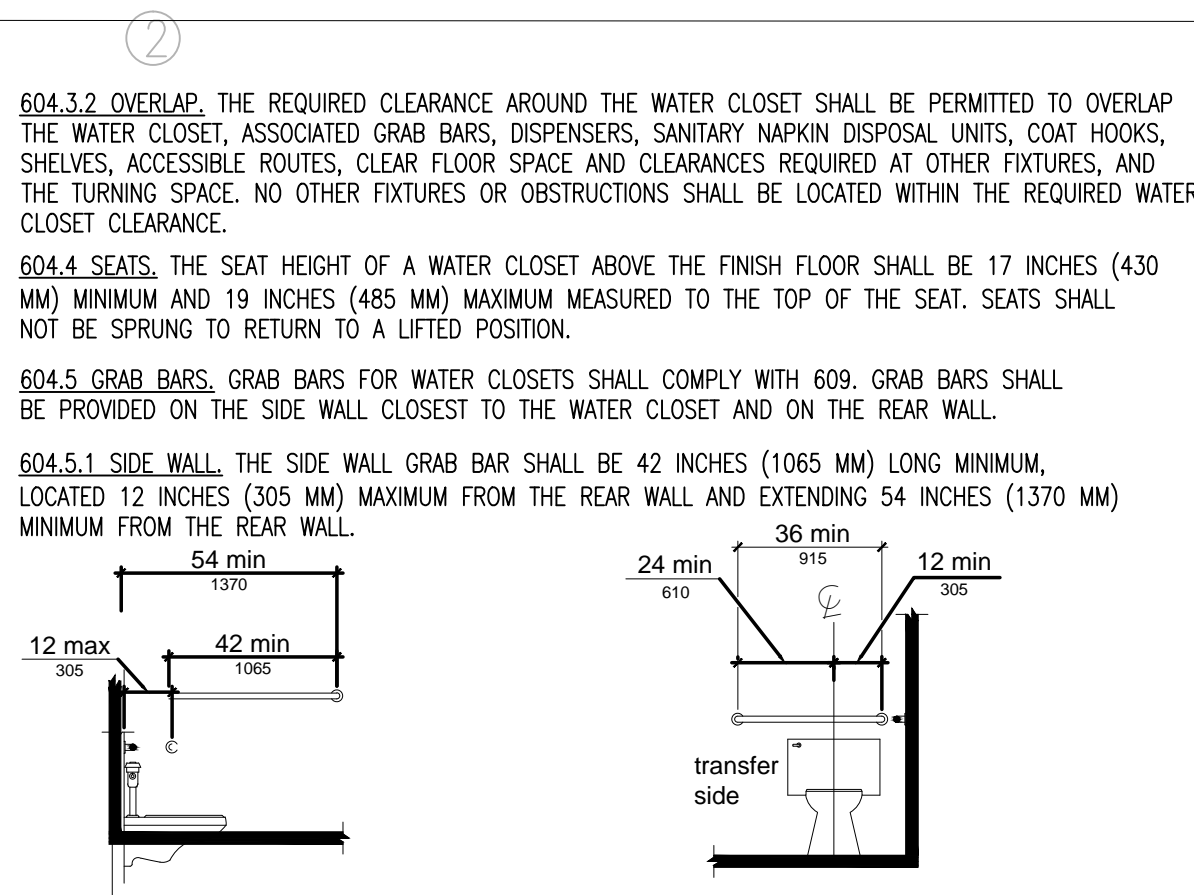


FIGURE 604.5.1 SIDE WALL GRAB BAR AT WATER CLOSET

604.5.2 REAR WALL. THE REAR WALL GRAB BAR SHALL BE 36 INCHES (915 MM) LONG MINIMUM AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12 INCHES (305 MM) MINIMUM ON ONE SIDE AND 24 INCHES (610 MM) MINIMUM ON THE OTHER SIDE.

604.6 FLUSH CONTROLS. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH 308. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET EXCEPT IN AMBULATORY ACCESSIBLE COMPARTMENTS COMPLYING WITH 604.8.2.

604.7 DISPENSERS. TOILET PAPER DISPENSERS SHALL COMPLY WITH 309.4 AND SHALL BE 7 INCHES (180 MM) MINIMUM AND 9 INCHES (230 MM) MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE 15 INCHES (380 MM) MINIMUM AND 48 INCHES (1220 MM) MAXIMUM ABOVE THE FINISH FLOOR AND SHALL NOT BE LOCATED BEHIND GRAB BARS. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY OR THAT DOES NOT ALLOW CONTINUOUS PAPER FLOW.

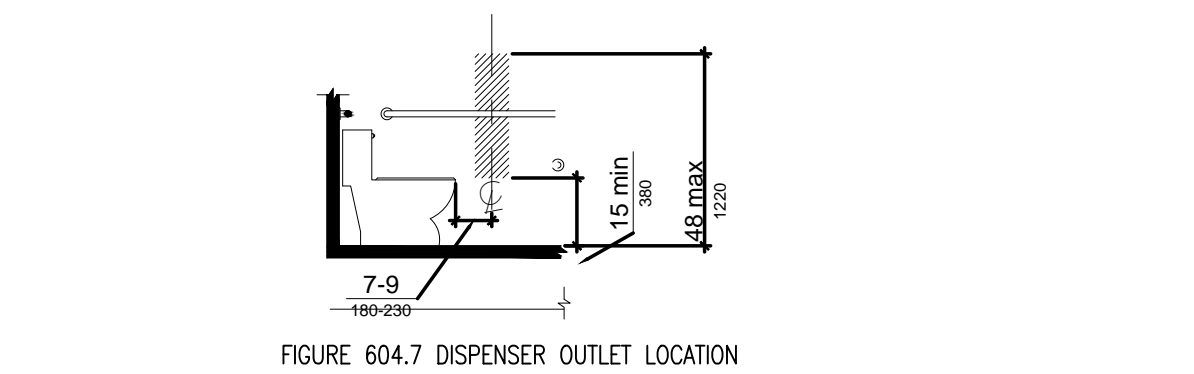


FIGURE 604.7 DISPENSER OUTLET LOCATION

604.8 TOILET COMPARTMENTS. WHEELCHAIR ACCESSIBLE TOILET COMPARTMENTS SHALL MEET THE REQUIREMENTS OF 604.8.1 AND 604.8.3. COMPARTMENTS CONTAINING MORE THAN ONE PLUMBING FIXTURE SHALL COMPLY WITH 603. AMBULATORY ACCESSIBLE COMPARTMENTS SHALL COMPLY WITH 604.8.2 AND 604.8.3.

604.8.1 WHEELCHAIR ACCESSIBLE COMPARTMENTS. WHEELCHAIR ACCESSIBLE COMPARTMENTS SHALL COMPLY WITH 604.8.1.

604.8.1.1 SIZE. WHEELCHAIR ACCESSIBLE COMPARTMENTS SHALL BE 60 INCHES (1525 MM) WIDE MINIMUM MEASURED PERPENDICULAR TO THE SIDE WALL, AND 56 INCHES (1420 MM) DEEP MINIMUM FOR WALL HUNG WATER CLOSETS AND 59 INCHES (1500 MM) DEEP MINIMUM FOR FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL. WHEELCHAIR ACCESSIBLE COMPARTMENTS FOR CHILDREN'S USE SHALL BE 60 INCHES (1525 MM) WIDE MINIMUM MEASURED PERPENDICULAR TO THE SIDE WALL, AND 59 INCHES (1500 MM) DEEP MINIMUM FOR WALL HUNG AND FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL.

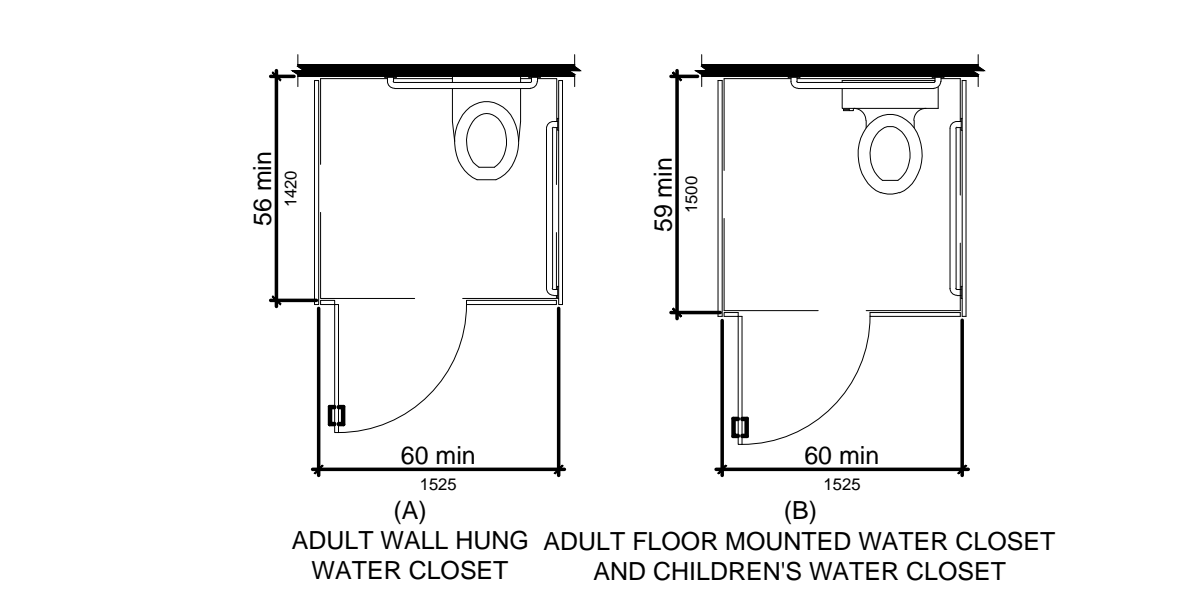


FIGURE 604.8.1.1 SIZE OF WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT

604.8.1.2 DOORS. TOILET COMPARTMENT DOORS, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH 404 EXCEPT THAT IF THE APPROACH IS TO THE LATCH SIDE OF THE COMPARTMENT DOOR, CLEARANCE BETWEEN THE DOOR SIDE OF THE COMPARTMENT AND ANY OBSTRUCTION SHALL BE 42 INCHES (1065 MM) MINIMUM. DOORS SHALL BE LOCATED IN THE FRONT PARTITION OR IN THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET. WHERE LOCATED IN THE FRONT PARTITION, THE DOOR OPENING SHALL BE 4 INCHES (100 MM) MAXIMUM FROM THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET. WHERE LOCATED IN THE SIDE WALL OR PARTITION, THE DOOR OPENING SHALL BE 4 INCHES (100 MM) MAXIMUM FROM THE FRONT PARTITION. THE DOOR SHALL BE SELF-CLOSING. A DOOR PULL COMPLYING WITH 404.2.7 SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH. TOILET COMPARTMENT DOORS SHALL NOT SWING INTO THE MINIMUM REQUIRED COMPARTMENT AREA.

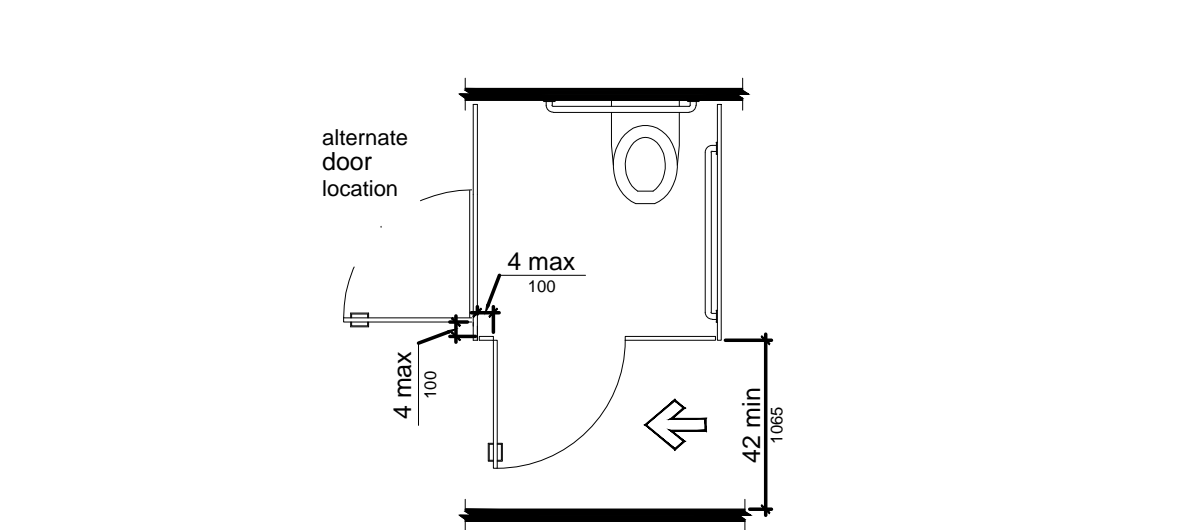


FIGURE 604.8.1.2 WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT DOORS

604.8.1.3 APPROACH. COMPARTMENTS SHALL BE ARRANGED FOR LEFT-HAND OR RIGHT-HAND APPROACH TO THE WATER CLOSET.

604.8.1.4 TOE CLEARANCE. THE FRONT PARTITION AND AT LEAST ONE SIDE PARTITION SHALL PROVIDE A TOE CLEARANCE OF 9 INCHES (230 MM) MINIMUM ABOVE THE FINISH FLOOR AND 6 INCHES (150 MM) DEEP MINIMUM BEYOND THE COMPARTMENT-SIDE FACE OF THE PARTITION, EXCLUSIVE OF PARTITION SUPPORT MEMBERS. COMPARTMENTS FOR CHILDREN'S USE SHALL PROVIDE A TOE CLEARANCE OF 12 INCHES (305 MM) MINIMUM ABOVE THE FINISH FLOOR.

EXCEPTION: TOE CLEARANCE AT THE FRONT PARTITION IS NOT REQUIRED IN A COMPARTMENT GREATER THAN 62 INCHES (1575 MM) DEEP WITH A WALL-HUNG WATER CLOSET OR 65 INCHES (1650 MM) DEEP WITH A FLOOR-MOUNTED WATER CLOSET. TOE CLEARANCE AT THE SIDE PARTITION IS NOT REQUIRED IN A COMPARTMENT GREATER THAN 66 INCHES (1675 MM) WIDE. TOE CLEARANCE AT THE FRONT PARTITION IS NOT REQUIRED IN A COMPARTMENT FOR CHILDREN'S USE THAT IS GREATER THAN 65 INCHES (1650 MM) DEEP.

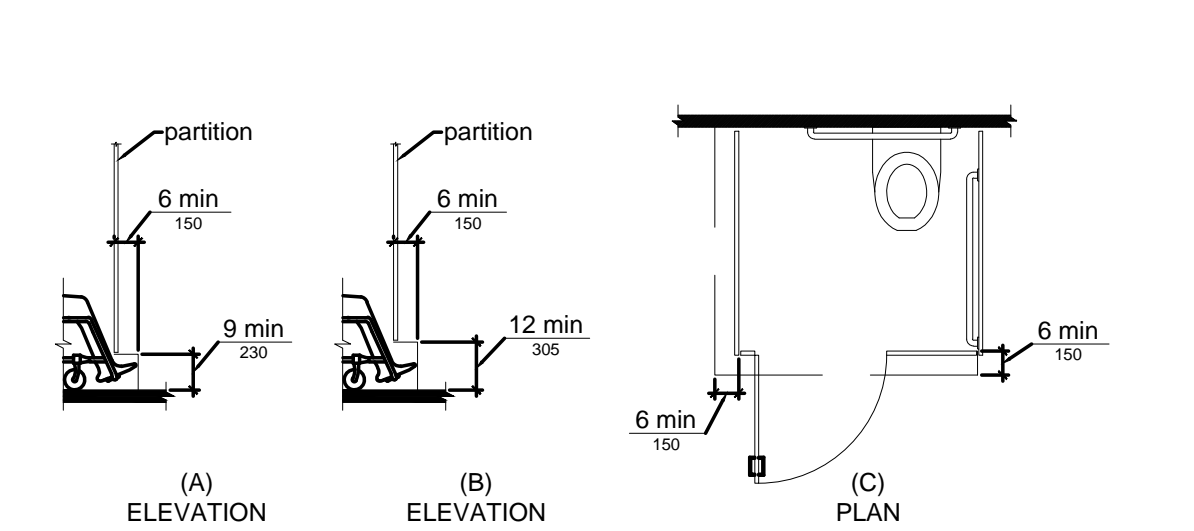


FIGURE 604.8.1.4 WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT TOE CLEARANCE

604.8.1.5 GRAB BARS. GRAB BARS SHALL COMPLY WITH 609. A SIDE-WALL GRAB BAR COMPLYING WITH 604.5.1 SHALL BE PROVIDED AND SHALL BE LOCATED ON THE WALL CLOSEST TO THE WATER CLOSET. IN ADDITION, A REAR-WALL GRAB BAR COMPLYING WITH 604.5.2 SHALL BE PROVIDED.

604.8.2 AMBULATORY ACCESSIBLE COMPARTMENTS. AMBULATORY ACCESSIBLE COMPARTMENTS SHALL COMPLY WITH 604.8.2.

604.8.2.1 SIZE. AMBULATORY ACCESSIBLE COMPARTMENTS SHALL HAVE A DEPTH OF 60 INCHES (1525 MM) MINIMUM AND A WIDTH OF 35 INCHES (890 MM) MINIMUM AND 37 INCHES (940 MM) MAXIMUM.

604.8.2.2 DOORS. TOILET COMPARTMENT DOORS, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH 404 EXCEPT THAT IF THE APPROACH IS TO THE LATCH SIDE OF THE COMPARTMENT DOOR, CLEARANCE BETWEEN THE DOOR SIDE OF THE COMPARTMENT AND ANY OBSTRUCTION SHALL BE 42 INCHES (1065 MM) MINIMUM. THE DOOR SHALL BE SELF-CLOSING. A DOOR PULL COMPLYING WITH 404.2.7 SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH. TOILET COMPARTMENT DOORS SHALL NOT SWING INTO THE MINIMUM REQUIRED COMPARTMENT AREA.

604.8.3 COAT HOOKS AND SHELVES. COAT HOOKS SHALL BE LOCATED WITHIN ONE OF THE REACH RANGES SPECIFIED IN 308. SHELVES SHALL BE LOCATED 40 INCHES (1015 MM) MINIMUM AND 48 INCHES (1220 MM) MAXIMUM ABOVE THE FINISH FLOOR.

604.9 WATER CLOSETS AND TOILET COMPARTMENTS FOR CHILDREN'S USE. WATER CLOSETS AND TOILET COMPARTMENTS FOR CHILDREN'S USE SHALL COMPLY WITH 604.9.

604.9.1 LOCATION. THE WATER CLOSET SHALL BE LOCATED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 12 INCHES (305 MM) MINIMUM AND 18 INCHES (455 MM) MAXIMUM FROM THE SIDE WALL OR PARTITION. EXCEPT THAT THE WATER CLOSET SHALL BE 17 INCHES (430 MM) MINIMUM AND 19 INCHES (485 MM) MAXIMUM FROM THE SIDE WALL OR PARTITION IN THE AMBULATORY ACCESSIBLE TOILET COMPARTMENT SPECIFIED IN 604.8.2. COMPARTMENTS SHALL BE ARRANGED FOR LEFT-HAND OR RIGHT-HAND APPROACH TO THE WATER CLOSET.

604.9.2 CLEARANCE. CLEARANCE AROUND A WATER CLOSET SHALL COMPLY WITH 604.3.

604.9.3 HEIGHT. THE HEIGHT OF WATER CLOSETS SHALL BE 11 INCHES (280 MM) MINIMUM AND 17 INCHES (430 MM) MAXIMUM MEASURED TO THE TOP OF THE SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION.

604.9.4 GRAB BARS. GRAB BARS FOR WATER CLOSETS SHALL COMPLY WITH 604.5.

604.9.5 FLUSH CONTROLS. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH 309.2 AND 309.4 AND SHALL BE INSTALLED 36 INCHES (915 MM) MAXIMUM ABOVE THE FINISH FLOOR. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET EXCEPT IN AMBULATORY ACCESSIBLE COMPARTMENTS COMPLYING WITH 604.8.2.

604.9.6 DISPENSERS. TOILET PAPER DISPENSERS SHALL COMPLY WITH 309.4 AND SHALL BE 7 INCHES (180 MM) MINIMUM AND 9 INCHES (230 MM) MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE 14 INCHES (355 MM) MINIMUM AND 19 INCHES (485 MM) MAXIMUM ABOVE THE FINISH FLOOR. THERE SHALL BE A CLEARANCE OF 1 1/2 INCHES (38 MM) MINIMUM BELOW THE GRAB BAR. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY OR THAT DOES NOT ALLOW CONTINUOUS PAPER FLOW. 604.9.7 TOILET COMPARTMENTS. TOILET COMPARTMENTS SHALL COMPLY WITH 604.8.

## 605 URINALS

605.2 HEIGHT AND DEPTH. URINALS SHALL BE THE STALL-TYPE OR THE WALL-HUNG TYPE WITH THE RIM 17 INCHES (430 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. URINALS SHALL BE 13 1/2 INCHES (345 MM) DEEP MINIMUM MEASURED FROM THE OUTER FACE OF THE URINAL RIM TO THE BACK OF THE FIXTURE.

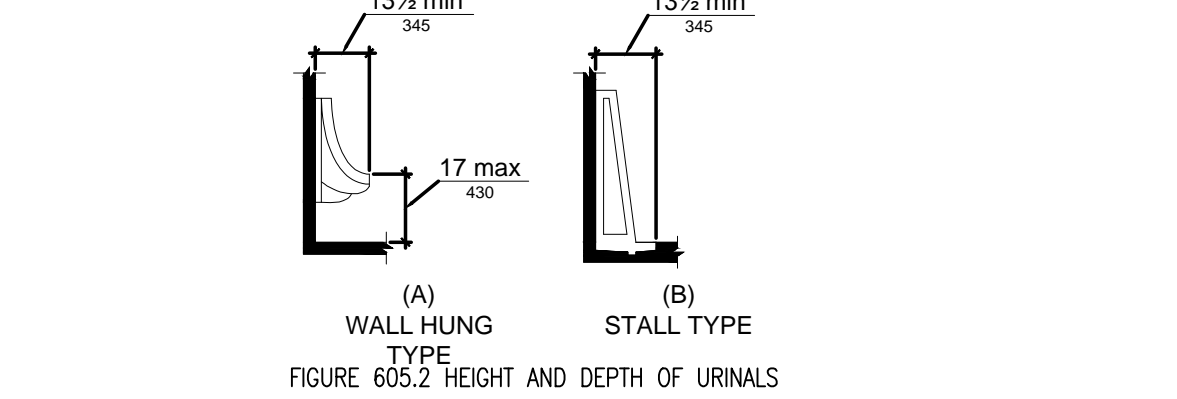


FIGURE 605.2 HEIGHT AND DEPTH OF URINALS

605.3 CLEAR FLOOR SPACE. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 POSITIONED FOR FORWARD APPROACH SHALL BE PROVIDED.

605.4 FLUSH CONTROLS. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH 309.

## 606 LAVATORIES AND SINKS

ADVISORY 606.1. GENERAL. IF SOAP AND TOWEL DISPENSERS ARE PROVIDED, THEY MUST BE LOCATED WITHIN THE REACH RANGES SPECIFIED IN 308. LOCATE SOAP AND TOWEL DISPENSERS SO THAT THEY ARE CONVENIENTLY USABLE BY A PERSON AT THE ACCESSIBLE LAVATORY.

606.2 CLEAR FLOOR SPACE. A CLEAR FLOOR SPACE COMPLYING WITH 305, POSITIONED FOR A FORWARD APPROACH, AND KNEE AND TOE CLEARANCE COMPLYING WITH 306 SHALL BE PROVIDED.

606.3 HEIGHT. LAVATORIES AND SINKS SHALL BE INSTALLED WITH THE FRONT OF THE HIGHER OF THE RIM OR COUNTER SURFACE 34 INCHES (865 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

606.4 FAUCETS. CONTROLS FOR FAUCETS SHALL COMPLY WITH 309. HAND-OPERATED METERING FAUCETS SHALL REMAIN OPEN FOR 10 SECONDS MINIMUM.

606.5 EXPOSED PIPES AND SURFACES. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES AND SINKS.

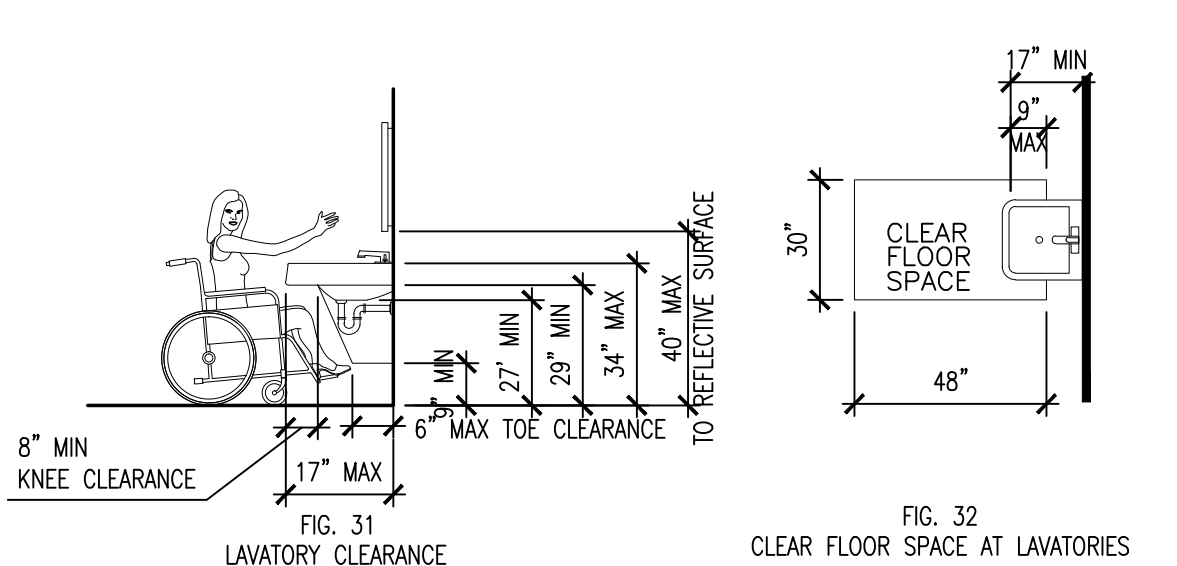


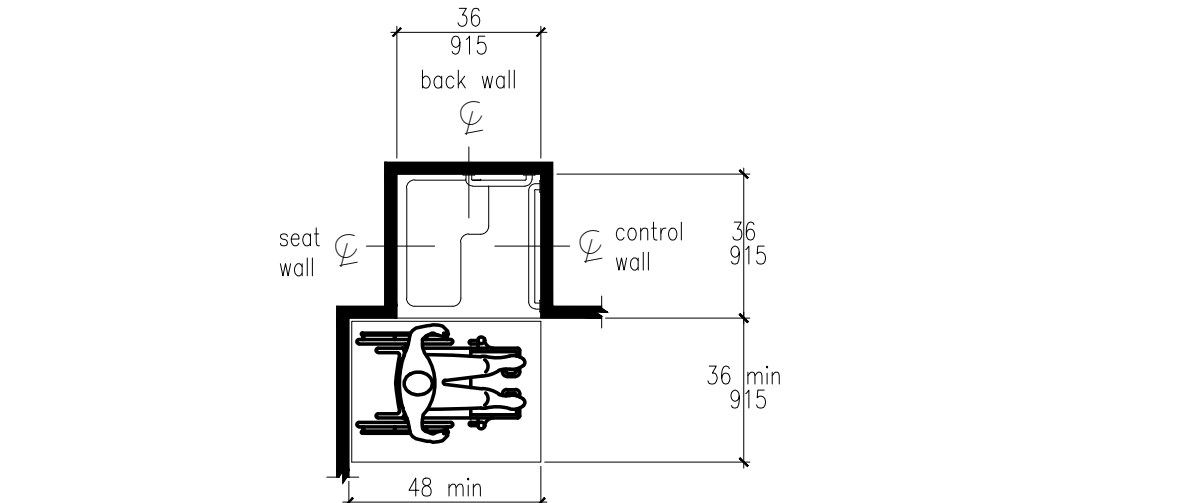
FIG. 31 LAVATORY CLEARANCE

FIG. 32 CLEAR FLOOR SPACE AT LAVATORIES

## 608 SHOWER COMPARTMENTS

608.2 SIZE AND CLEARANCES FOR SHOWER COMPARTMENTS. SHOWER COMPARTMENTS SHALL HAVE SIZES AND CLEARANCES COMPLYING WITH 608.2.

608.2.1 TRANSFER TYPE SHOWER COMPARTMENTS. TRANSFER TYPE SHOWER COMPARTMENTS SHALL BE 36 INCHES (915 MM) BY 36 INCHES (915 MM) CLEAR INSIDE DIMENSIONS MEASURED AT THE CENTER POINTS OF OPPOSING SIDES AND SHALL HAVE A 36 INCH (915 MM) WIDE MINIMUM ENTRY ON THE FACE OF THE SHOWER COMPARTMENT. CLEARANCE OF 36 INCHES (915 MM) WIDE MINIMUM BY 48 INCHES (1220 MM) LONG MINIMUM MEASURED FROM THE CONTROL WALL SHALL BE PROVIDED.



NOTE: INSIDE FINISHED DIMENSIONS MEASURED AT THE CENTER POINTS OF OPPOSING SIDES

FIGURE 608.2.1 TRANSFER TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE

608.2.2 STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS. STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS SHALL BE 30 INCHES (760 MM) WIDE MINIMUM BY 60 INCHES (1525 MM) DEEP MINIMUM CLEAR INSIDE DIMENSIONS MEASURED AT CENTER POINTS OF OPPOSING SIDES AND SHALL HAVE A 60 INCHES (1525 MM) WIDE MINIMUM ENTRY ON THE FACE OF THE SHOWER COMPARTMENT.

608.2.2.1 CLEARANCE. A 30 INCH (760 MM) WIDE MINIMUM BY 60 INCH (1525 MM) LONG MINIMUM CLEARANCE SHALL BE PROVIDED ADJACENT TO THE OPEN FACE OF THE SHOWER COMPARTMENT.

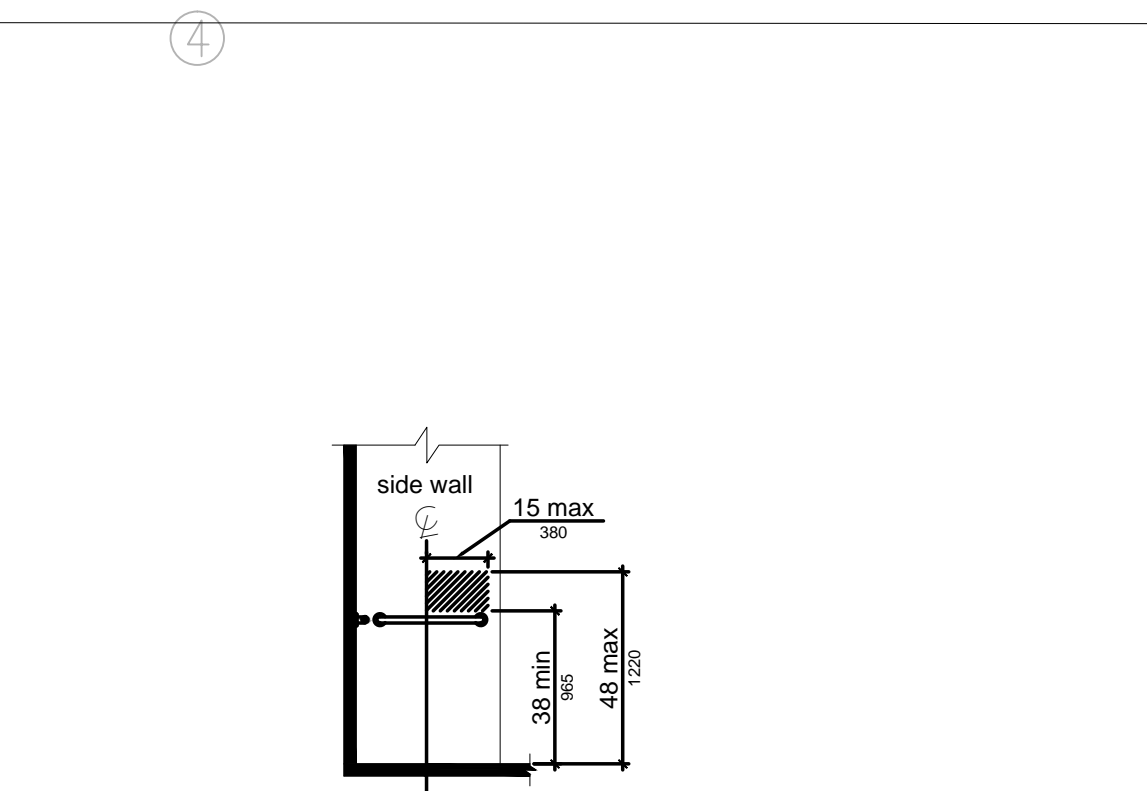


FIGURE 608.5.1 TRANSFER TYPE SHOWER COMPARTMENT CONTROL LOCATION

608.5.2 STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS. IN STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS, THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE LOCATED ABOVE THE GRAB BAR, BUT NO HIGHER THAN 48 INCHES (1220 MM) ABOVE THE SHOWER FLOOR. WHERE A SEAT IS PROVIDED, THE CONTROLS, FAUCETS, AND SHOWER SPRAY UNIT SHALL BE INSTALLED ON THE BACK WALL ADJACENT TO THE SEAT WALL AND SHALL BE LOCATED 27 INCHES (685 MM) MAXIMUM FROM THE SEAT WALL.

## 609 GRAB BARS

609.1 GENERAL. GRAB BARS IN TOILET FACILITIES AND BATHING FACILITIES SHALL COMPLY WITH 609.

609.2 CROSS SECTION. GRAB BARS SHALL HAVE A CROSS SECTION COMPLYING WITH 609.2.1 OR 609.2.2.

609.2.1 CIRCULAR CROSS SECTION. GRAB BARS WITH CIRCULAR CROSS SECTIONS SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/4 INCHES (32 MM) MINIMUM AND 2 INCHES (51 MM) MAXIMUM.

609.2.2 NON-CIRCULAR CROSS SECTION. GRAB BARS WITH NON-CIRCULAR CROSS SECTIONS SHALL HAVE A CROSS-SECTION DIMENSION OF 2 INCHES (51 MM) MAXIMUM AND A PERIMETER DIMENSION OF 4 INCHES (100 MM) MINIMUM AND 4.8 INCHES (120 MM) MAXIMUM.

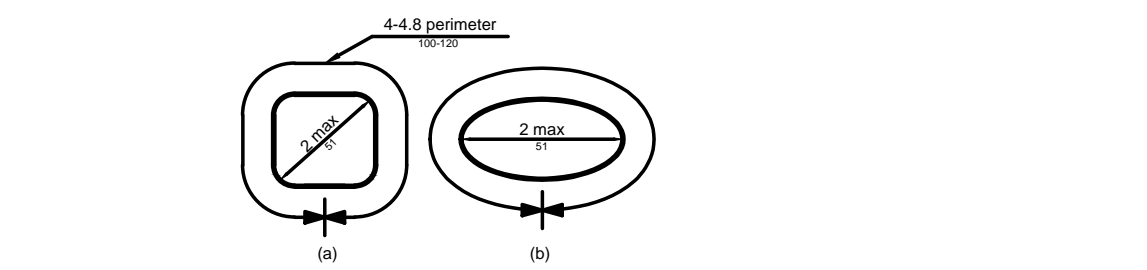


FIGURE 609.2.2 GRAB BAR NON-CIRCULAR CROSS SECTION

609.3 SPACING. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1 1/2 INCHES (38 MM). THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS SHALL BE 1 1/2 INCHES (38 MM) MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12 INCHES (305 MM) MINIMUM.

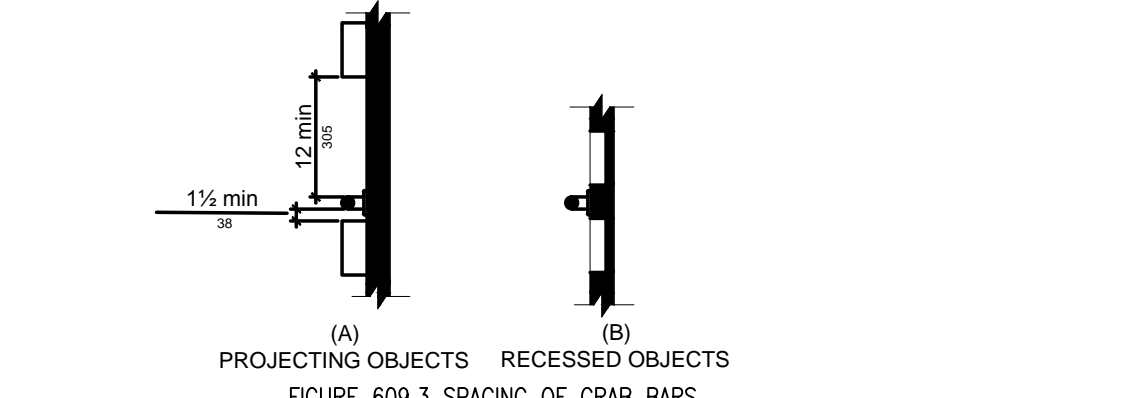


FIGURE 609.3 SPACING OF GRAB BARS

609.4 POSITION OF GRAB BARS. GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION, 33 INCHES (840 MM) MINIMUM AND 36 INCHES (915 MM) MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE, EXCEPT THAT AT WATER CLOSETS FOR CHILDREN'S USE COMPLYING WITH 604.9, GRAB BARS SHALL BE INSTALLED IN A HORIZONTAL POSITION 18 INCHES (455 MM) MINIMUM AND 27 INCHES (685 MM) MAXIMUM ABOVE THE FINISH FLOOR MEASURED TO THE TOP OF THE GRIPPING SURFACE. THE HEIGHT OF THE LOWER GRAB BAR ON THE BACK WALL OF A BATHUB SHALL COMPLY WITH 607.4.1.1 OR 607.4.2.1.

609.5 SURFACE HAZARDS. GRAB BARS AND ANY WALL OR OTHER SURFACES ADJACENT TO GRAB BARS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.

609.6 FITTINGS. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

609.7 INSTALLATION. GRAB BARS SHALL BE INSTALLED IN ANY MANNER THAT PROVIDES A GRIPPING SURFACE AT THE SPECIFIED LOCATIONS AND THAT DOES NOT OBSTRUCT THE REQUIRED CLEAR FLOOR SPACE.

609.8 STRUCTURAL STRENGTH. ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS (112 N) IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE.

## 610 SEATS

610.2 BATHUB SEATS. THE TOP OF BATHTUB SEATS SHALL BE 17 INCHES (430 MM) MINIMUM AND 19 INCHES (485 MM) MAXIMUM ABOVE THE BATHROOM FINISH FLOOR. THE DEPTH OF A REMOVABLE IN-TUB SEAT SHALL BE 15 INCHES (380 MM) MINIMUM AND 16 INCHES (405 MM) MAXIMUM. THE SEAT SHALL BE CAPABLE OF SECURE PLACEMENT. PERMANENT SEATS AT THE HEAD END OF THE BATHTUB SHALL BE 15 INCHES (380 MM) DEEP MINIMUM AND SHALL EXTEND FROM THE BACK WALL TO OR BEYOND THE OUTER EDGE OF THE BATHTUB.

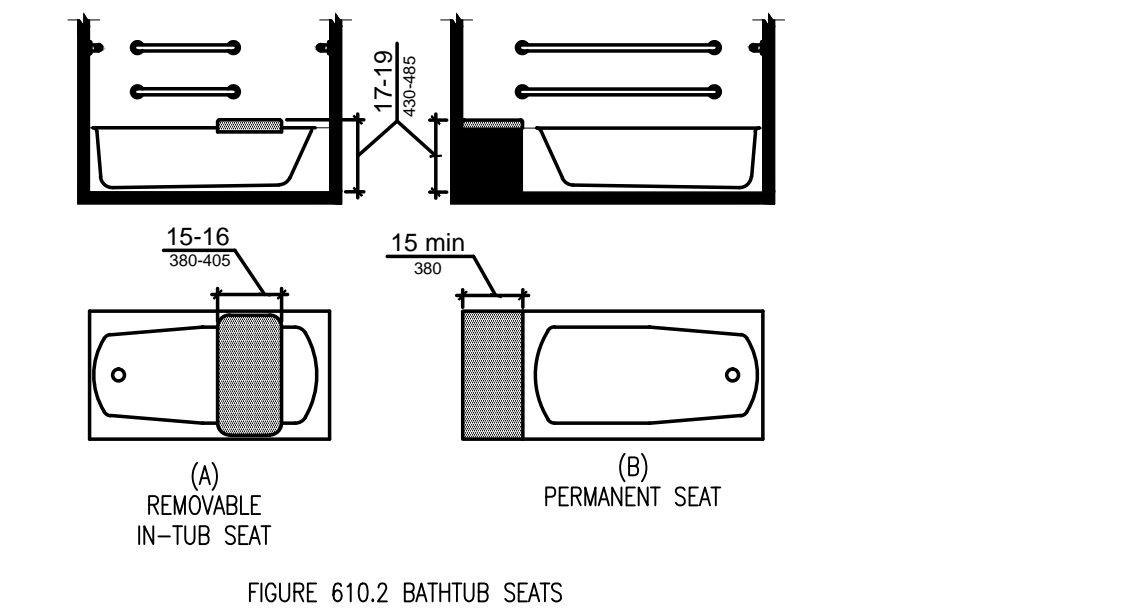


FIGURE 610.2 BATHTUB SEATS

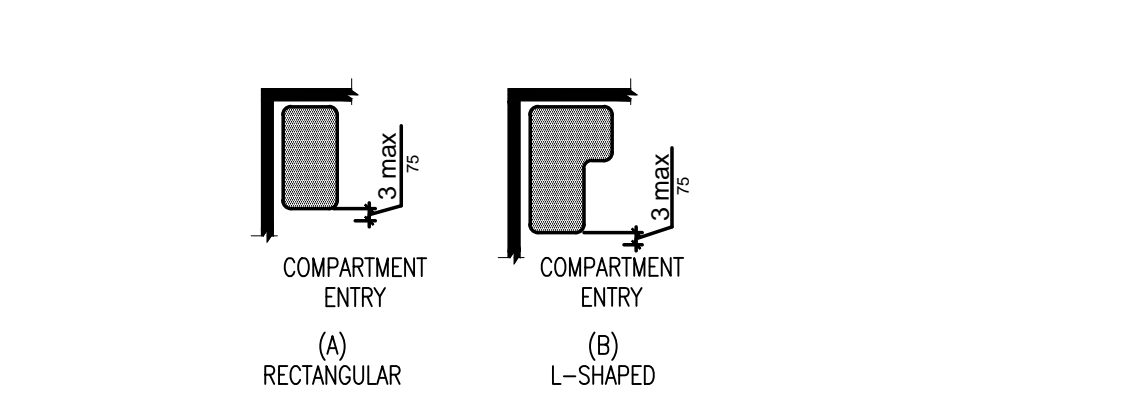


FIGURE 610.3 EXTENT OF SEAT

610.3 SHOWER COMPARTMENT SEATS. WHERE A SEAT IS PROVIDED IN A STANDARD ROLL-IN SHOWER COMPARTMENT, IT SHALL BE A FOLDING TYPE, SHALL BE INSTALLED ON THE SIDE WALL ADJACENT TO THE CONTROLS, AND SHALL EXTEND FROM THE BACK WALL TO A POINT WITHIN 3 INCHES (75 MM) OF THE COMPARTMENT ENTRY. WHERE A SEAT IS PROVIDED IN AN ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENT, IT SHALL BE A FOLDING TYPE, SHALL BE INSTALLED ON THE FRONT WALL OPPOSITE THE BACK WALL, AND SHALL EXTEND FROM THE ADJACENT SIDE WALL TO A POINT WITHIN 3 INCHES (75 MM) OF THE COMPARTMENT ENTRY. IN TRANSFER-TYPE SHOWERS, THE SEAT SHALL EXTEND FROM THE BACK WALL TO A POINT WITHIN 3 INCHES (75 MM) OF THE COMPARTMENT ENTRY. THE TOP OF THE SEAT SHALL BE 17 INCHES (430 MM) MINIMUM AND 19 INCHES (485 MM) MAXIMUM ABOVE THE BATHROOM FINISH FLOOR. SEATS SHALL COMPLY WITH 610.3.1 OR 610.3.2.

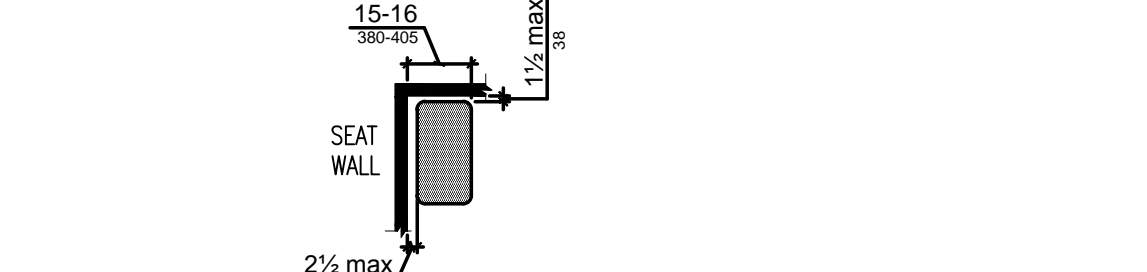


FIGURE 610.3.1 RECTANGULAR SHOWER SEAT

610.3.1 RECTANGULAR SEATS. THE REAR EDGE OF A RECTANGULAR SEAT SHALL BE 2 1/2 INCHES (64 MM) MAXIMUM AND THE FRONT EDGE 15 INCHES (380 MM) MINIMUM AND 16 INCHES (405 MM) MAXIMUM FROM THE SEAT WALL. THE SIDE EDGE OF THE SEAT SHALL BE 1 1/2 INCHES (38 MM) MAXIMUM FROM THE ADJACENT WALL.

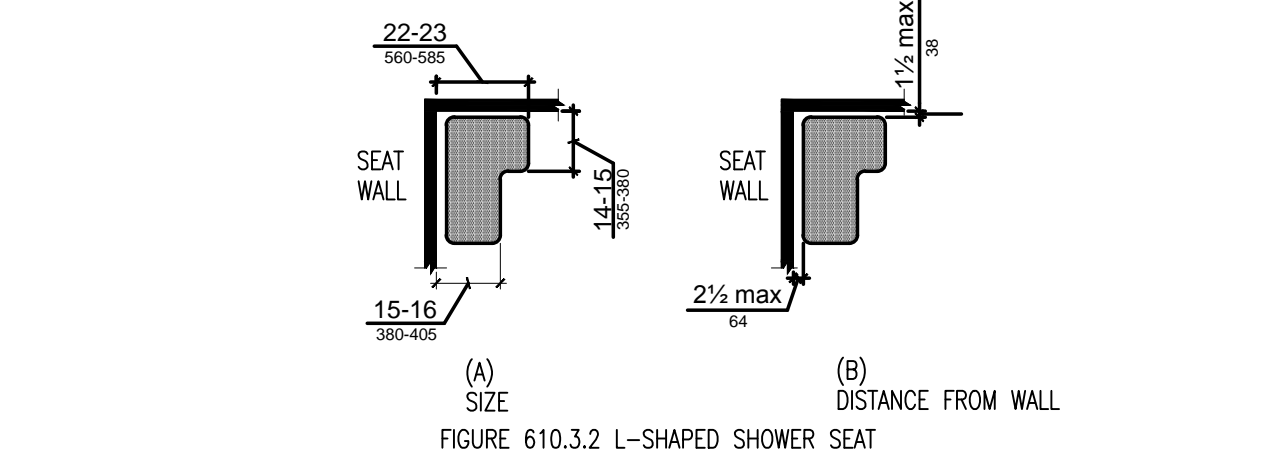


FIGURE 610.3.2 L-SHAPED SHOWER SEAT

610.3.2 L-SHAPED SEATS. THE REAR EDGE OF AN L-SHAPED SEAT SHALL BE 2 1/2 INCHES (64 MM) MAXIMUM AND THE FRONT EDGE 15 INCHES (380 MM) MINIMUM AND 16 INCHES (405 MM) MAXIMUM FROM THE SEAT WALL. THE REAR EDGE OF THE "L" PORTION OF THE SEAT SHALL BE 1 1/2 INCHES (38 MM) MAXIMUM FROM THE WALL AND THE FRONT EDGE SHALL BE 14 INCHES (355 MM) MINIMUM AND 15 INCHES (380 MM) MAXIMUM FROM THE WALL. THE END OF THE "L" SHALL BE 22 INCHES (560 MM) MINIMUM AND 23 INCHES MAXIMUM (585 MM) FROM THE MAIN SEAT WALL.

610.4 STRUCTURAL STRENGTH. ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS (112 N) IS APPLIED AT ANY POINT ON THE SEAT, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE.

611 WASHING MACHINES AND CLOTHES DRYERS

611.2 CLEAR FLOOR SPACE. A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH 305 POSITIONED FOR PARALLEL APPROACH SHALL BE PROVIDED. THE CLEAR FLOOR OR GROUND SPACE SHALL BE CENTERED ON THE APPLIANCE.

611.3 OPERABLE PARTS. OPERABLE PARTS, INCLUDING DOORS, LINT SCREENS, AND DETERGENT AND BLEACH COMPARTMENTS SHALL COMPLY WITH 309.

611.4 HEIGHT. TOP LOADING MACHINES SHALL HAVE THE DOOR TO THE LAUNDRY COMPARTMENT LOCATED 36 INCHES (915 MM) MAXIMUM ABOVE THE FINISH FLOOR. FRONT LOADING MACHINES SHALL HAVE THE BOTTOM OF THE OPENING TO THE LAUNDRY COMPARTMENT LOCATED 15 INCHES (380 MM) MINIMUM AND 36 INCHES (915 MM) MAXIMUM ABOVE THE FINISH FLOOR.

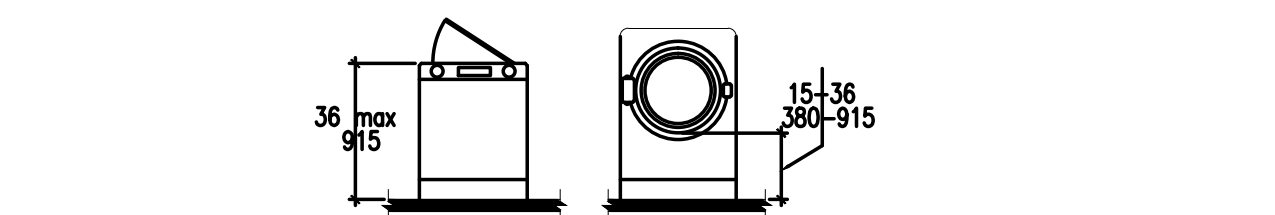


FIGURE 611.4 HEIGHT OF LAUNDRY COMPARTMENT OPENING

703.4.2 LOCATION. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF. THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES (455 MM) MINIMUM BY 18 INCHES (455 MM) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.

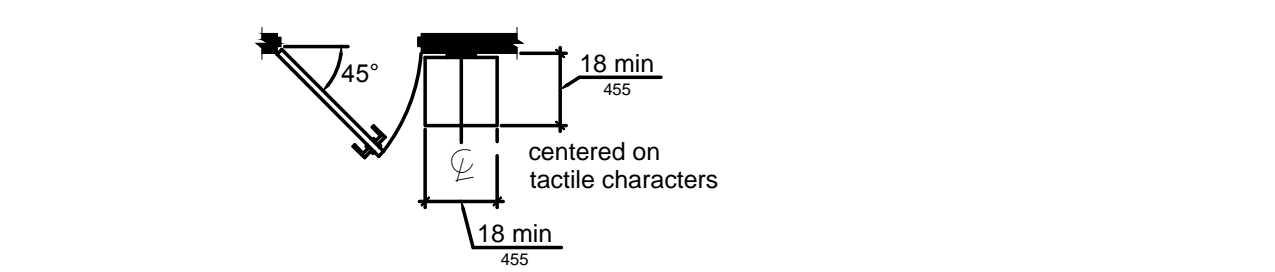


FIGURE 703.4.2 LOCATION OF TACTILE SIGNS AT DOORS

703.5 VISUAL CHARACTERS. VISUAL CHARACTERS SHALL COMPLY WITH 703.5.

703.5.1 FINISH AND CONTRAST. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

703.5.2 CASE. CHARACTERS SHALL BE UPPERCASE OR LOWERCASE OR A COMBINATION OF BOTH.

703.5.3 STYLE. CHARACTERS SHALL BE CONVENTIONAL IN FORM. CHARACTERS SHALL NOT BE ITALIC, OBLOQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS.

703.5.4 CHARACTER PROPORTIONS. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "T".

703.5.5 CHARACTER HEIGHT. MINIMUM CHARACTER HEIGHT SHALL COMPLY WITH TABLE 703.5.5. VIEWING DISTANCE SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CHARACTER AND AN OBSTRUCTION PREVENTING FURTHER APPROACH TOWARDS THE SIGN. CHARACTER HEIGHT SHALL BE BASED ON THE UPPERCASE LETTER "T".

703.5.6 HEIGHT FROM FINISH FLOOR OR GROUND. VISUAL CHARACTERS SHALL BE 40 INCHES (1015 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

703.5.7 STROKE THICKNESS. STROKE THICKNESS OF THE UPPERCASE LETTER "T" SHALL BE 10 PERCENT MINIMUM AND 30 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER.

703.5.8 CHARACTER SPACING. CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT CHARACTERS, EXCLUDING WORD SPACES. SPACING BETWEEN INDIVIDUAL CHARACTERS SHALL BE 10 PERCENT MINIMUM AND 35 PERCENT MAXIMUM OF CHARACTER HEIGHT.

703.5.9 LINE SPACING. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE CHARACTER HEIGHT.

703.6 PICTOGRAMS. PICTOGRAMS SHALL COMPLY WITH 703.6.

703.6.1 PICTOGRAM FIELD. PICTOGRAMS SHALL HAVE A FIELD HEIGHT OF 6 INCHES (150 MM) MINIMUM. CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD.

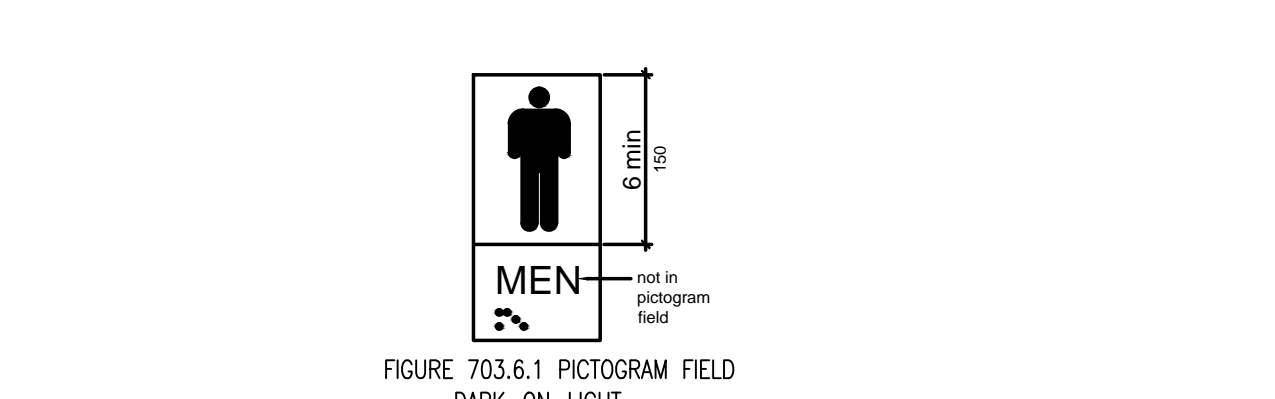


FIGURE 703.6.1 PICTOGRAM FIELD

DARK-ON-LIGHT

703.6.2 FINISH AND CONTRAST. PICTOGRAMS AND THEIR FIELD SHALL HAVE A NON-GLARE FINISH. PICTOGRAMS SHALL CONTRAST WITH THEIR FIELD WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD.

703.6.3 TEXT DESCRIPTORS. PICTOGRAMS SHALL HAVE TEXT DESCRIPTORS LOCATED DIRECTLY BELOW THE PICTOGRAM FIELD. TEXT DESCRIPTORS SHALL COMPLY WITH 703.2, 703.3 AND 703.4.

703.7 SYMBOLS OF ACCESSIBILITY. SYMBOLS OF ACCESSIBILITY SHALL COMPLY WITH 703.7.

703.7.1 FINISH AND CONTRAST. SYMBOLS OF ACCESSIBILITY AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. SYMBOLS OF ACCESSIBILITY SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER A LIGHT SYMBOL ON A DARK BACKGROUND OR A DARK SYMBOL ON A LIGHT BACKGROUND.

703.7.2 CONTRAST. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.



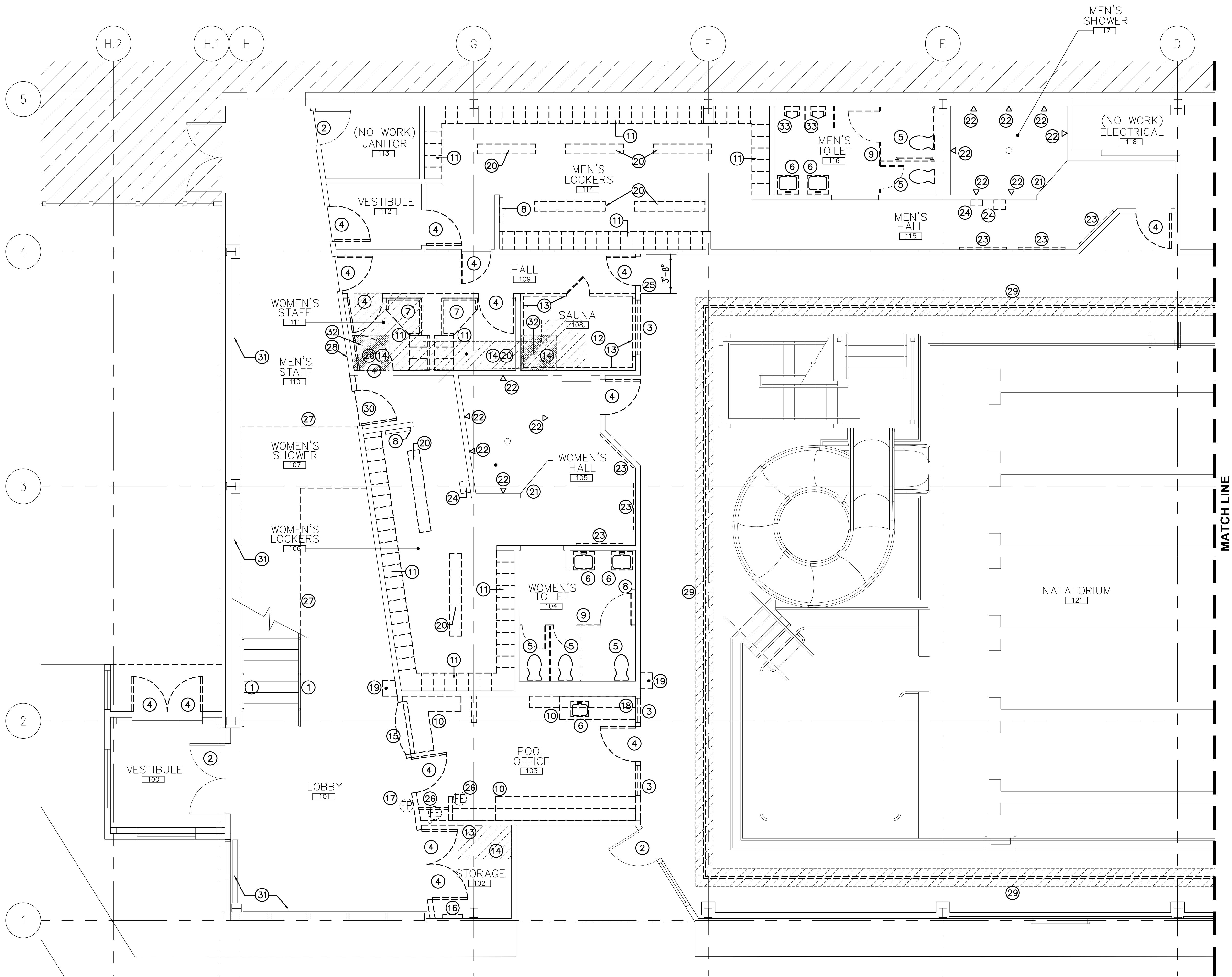
FIGURE 703.7.2 SIZE AND SPACING OF TRUNCATED DOMES

703.2 PLATFORM EDGES. DETECTABLE WARNING SURFACES AT PLATFORM BOARDING EDGES SHALL BE 24 INCHES (610 MM) WIDE AND SHALL EXTEND THE FULL LENGTH OF THE PUBLIC USE AREAS OF THE PLATFORM.

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| GSW      | 1502     |
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1  
A1.0 DEMOLITION FLOOR PLAN – FIRST FLOOR / WEST

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



## GENERAL NOTES

NOTE: GENERAL NOTES APPLY TO ALL AREAS/SPACES WITHIN THE SCOPE OF WORK UNLESS OTHERWISE NOTED

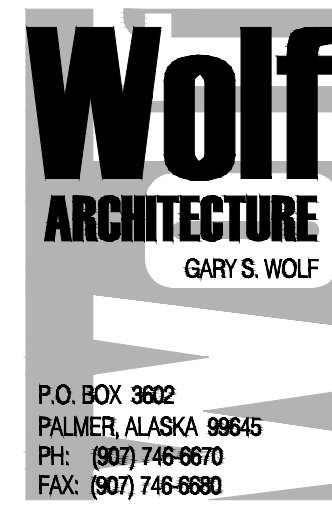
1. REMOVE AND SALVAGE ALL WALL CLOCKS. PREPARE FOR REUSE. INSTALL WHERE DIRECTED BY OWNER
2. REMOVE AND SALVAGE ALL WALL MOUNTED MIRRORS IN LOCKER ROOMS AND TOILET ROOMS. PREPARE FOR REUSE.
3. REMOVE AND DISPOSE OF ALL PLASTIC WALL PANELS. SEE FIRST FLOOR FINISH PLAN – DEMOLITION
4. REMOVE AND DISPOSE OF ALL WALL TILE AND SUBSTRATE MATERIAL. SEE FIRST FLOOR FINISH PLAN – DEMOLITION
5. REMOVE AND DISPOSE OF ALL FLOOR TILE, TILE BASE, AND ASSOCIATED TRIM AND ACCESSORIES. SEE FIRST FLOOR FINISH PLAN – DEMOLITION
6. REMOVE AND DISPOSE OF ALL WALL-MOUNTED COAT/TOWEL RACKS.
7. REMOVE AND DISPOSE OF ALL INTERIOR SIGNAGE. PREPARE SURFACES FOR INSTALLATION OF NEW SIGNS.
8. REMOVE AND SALVAGE PAPER TOWEL DISPENSERS, TOILET PAPER DISPENSERS, SANITARY PRODUCT DISPENSERS, WASTE RECEPTACLES, ETC. IN ALL MEN'S AND WOMEN'S STAFF ROOMS, LOCKER ROOMS, SHOWER ROOMS, TOILET ROOMS, AND HALLS. PREPARE FOR REUSE.
9. REMOVE AND DISPOSE OF ELECTRIC HAND DRYERS.
10. LIMIT WORK TO SPACES INDICATED. TAKE CARE TO PROTECT ADJACENT FINISHES.
11. PROVIDE PLASTIC WORK BARRIER AT ALL AREAS OF CONSTRUCTION
12. CLOSE OFF OR OTHERWISE ELIMINATE AIR INFILTRATION INTO MECHANICAL SYSTEM DURING DEMOLITION OR OTHER CONSTRUCTION ACTIVITIES WHICH COULD CONTAMINATE FILTERS
13. MODIFY EXISTING SPRINKLER SYSTEM AND ADJUST SPRINKLER HEADS IN ALL AREAS AS NECESSARY TO COMPLY WITH ALL CURRENT NFPA REQUIREMENTS.
14. REMOVE AND SALVAGE EXISTING CEILING VENTILATION GRILLES. CLEAN AND PREPARE FOR REINSTALLATION.
15. LIMIT WORK TO SPACES INDICATED. TAKE CARE TO PROTECT ADJACENT FINISHES.
16. CLOSE OFF OR OTHERWISE ELIMINATE AIR INFILTRATION INTO MECHANICAL SYSTEM DURING DEMOLITION OR OTHER CONSTRUCTION ACTIVITIES WHICH COULD CONTAMINATE FILTERS

## SHEET NOTES LEGEND

1. MODIFY EXISTING 36" HIGH GUARDRAIL/HANDRAIL ASSEMBLY TO 42" HIGH PER DETAILS ON SHEET A5.2
2. EXISTING DOOR(S) TO REMAIN
3. REMOVE AND DISPOSE OF WINDOW ASSEMBLY.
4. REMOVE AND SALVAGE EXISTING DOOR, DOOR FRAME, AND HARDWARE FOR OWNERS USE. MODIFY OPENING AS REQUIRED TO ACCEPT NEW DOOR PER DOOR SCHEDULE.
5. REMOVE AND DISPOSE OF EXISTING TOILET/URNAL ASSEMBLY AND CARRIERS (REFER TO MECHANICAL) – CAP PLUMBING LINES AT URINALS AND WHERE INDICATED ON MECHANICAL DRAWINGS.
6. REMOVE AND DISPOSE OF EXISTING SINK. CAP ALL SUPPLY, VENT, AND WASTE LINES AS INDICATED ON MECHANICAL DRAWINGS.
7. REMOVE AND DISPOSE OF EXISTING SHOWER UNIT. CAP ALL SUPPLY, VENT, AND WASTE LINES FOR POSSIBLE RE-USE. (REFER TO MECHANICAL)
8. REMOVE AND SALVAGE BABY CHANGING STATIONS. PREPARE FOR RE-USE.
9. REMOVE AND DISPOSE OF EXISTING TOILET PARTITIONS. PREPARE FOR NEW TOILET PARTITIONS.
10. REMOVE AND DISPOSE OF CASEWORK AND ALL ASSOCIATED MOUNTING HARDWARE.
11. REMOVE AND DISPOSE OF EXISTING LOCKERS. PREPARE AREA FOR INSTALLATION OF NEW LOCKERS.
12. REMOVE AND DISPOSE OF REMAINING SAUNA ASSEMBLY/COMPONENTS IN THEIR ENTIRETY. REMOVE AND SALVAGE EXISTING SAUNA HEATER FOR REUSE.
13. REMOVE AND DISPOSE OF EXISTING WOOD WALL CLADDING.
14. SAWCUT AND DISPOSE OF EXISTING CONCRETE SLAB TO THE MINIMUM EXTENT PRACTICAL TO OBTAIN ACCESS TO EXISTING PLUMBING OR TO RUN NEW PLUMBING LINES UNDER THE SLAB. AREAS SHOWN ARE APPROXIMATE. (SEE MECHANICAL)
15. REMOVE AND SALVAGE EXISTING COUNTER ROLLING DOOR, FRAME, AND HARDWARE. PREPARE FOR RE-USE.
16. REMOVE AND DISPOSE OF EXISTING WALL MOUNTED HEATING UNIT.
17. REMOVE AND SALVAGE EXISTING FIRE PULL. PREPARE FOR RELOCATION TO ADJACENT WALL. (REFER TO ELECTRICAL)
18. REMOVE AND SALVAGE EXISTING WATER SLIDE SWITCH. PREPARE FOR RELOCATION. (REFER TO ELECTRICAL)
19. REMOVE AND DISPOSE OF EXISTING DRINKING WATER FOUNTAIN. PREPARE FOR NEW FOUNTAIN. (REFER TO MECHANICAL)
20. REMOVE AND DISPOSE OF EXISTING FLOOR-MOUNTED BENCHES. PATCH/REPAIR FLOORING AS REQUIRED FOR NEW BENCHES AND NEW FLOOR FINISHES.
21. REMOVE AND DISPOSE OF EXISTING SHOWER ROD/CURTAIN ASSEMBLY.
22. REMOVE AND DISPOSE OF EXISTING SHOWER HEADS, VALVES, AND TRIM ASSEMBLIES. (REFER TO MECHANICAL)
23. REMOVE AND DISPOSE OF WALL-MOUNTED COAT/TOWEL RACKS.
24. REMOVE AND DISPOSE OF WALL-MOUNTED, ELECTRIC HAND DRYERS. PREPARE FOR INSTALLATION OF NEW DRYER UNITS. (REFER TO ELECTRICAL)
26. DEMOLISH ADDITIONAL LENGTH OF WALL AS NEEDED FOR NEW HALLWAY. (SEE FLOOR PLAN, SHEET A2.0)
26. REMOVE AND SALVAGE EXISTING FIRE EXTINGUISHER. PREPARE FOR RE-USE.
27. LINE OF STAIRS / LANDING ABOVE
28. MODIFY WALL AS REQUIRED FOR DRAIN AND POWER FOR NEW SWIMSUIT WATER EXTRACTOR.
29. REMOVE EXISTING PERIMETER POOL DRAIN ASSEMBLY – SAWCUT DECK EITHER SIDE AS REQUIRED FOR REMOVAL – PREPARE SLAB FOR INSTALLATION OF NEW REPLACEMENT DRAIN ASSEMBLY
30. REMOVE EXISTING DOOR AND FRAME AND PORTION OF EXISTING WALL TO HEAD OF DOOR.
31. REMOVE COVERS OF EXISTING RADIANT HEATERS – PREPARE COVERS FOR REFINISHING
32. PREPARE UNDERSLAB AT NEW PREMANUFACTURED SHOWER STALL LOCATIONS FOR RECESSED SLAB
33. REMOVE AND DISPOSE OF EXISTING URINALS – CAP LINES AS DIRECTED IN MECHANICAL DRAWINGS

## FLOOR PLAN LEGEND

- EXISTING WALL / ELEMENT TO REMAIN
- EXISTING WALL / ELEMENT TO BE DEMOLISHED
- APPROXIMATE AREA OF CONCRETE REMOVAL – SEE SHEET NOTES



CITY OF UNALASKA - AQUATICS CENTER IMPROVEMENTS  
55 EAST BROADWAY  
UNALASKA, ALASKA

Drawn Date 11/15/15  
Checked Job No. 1502

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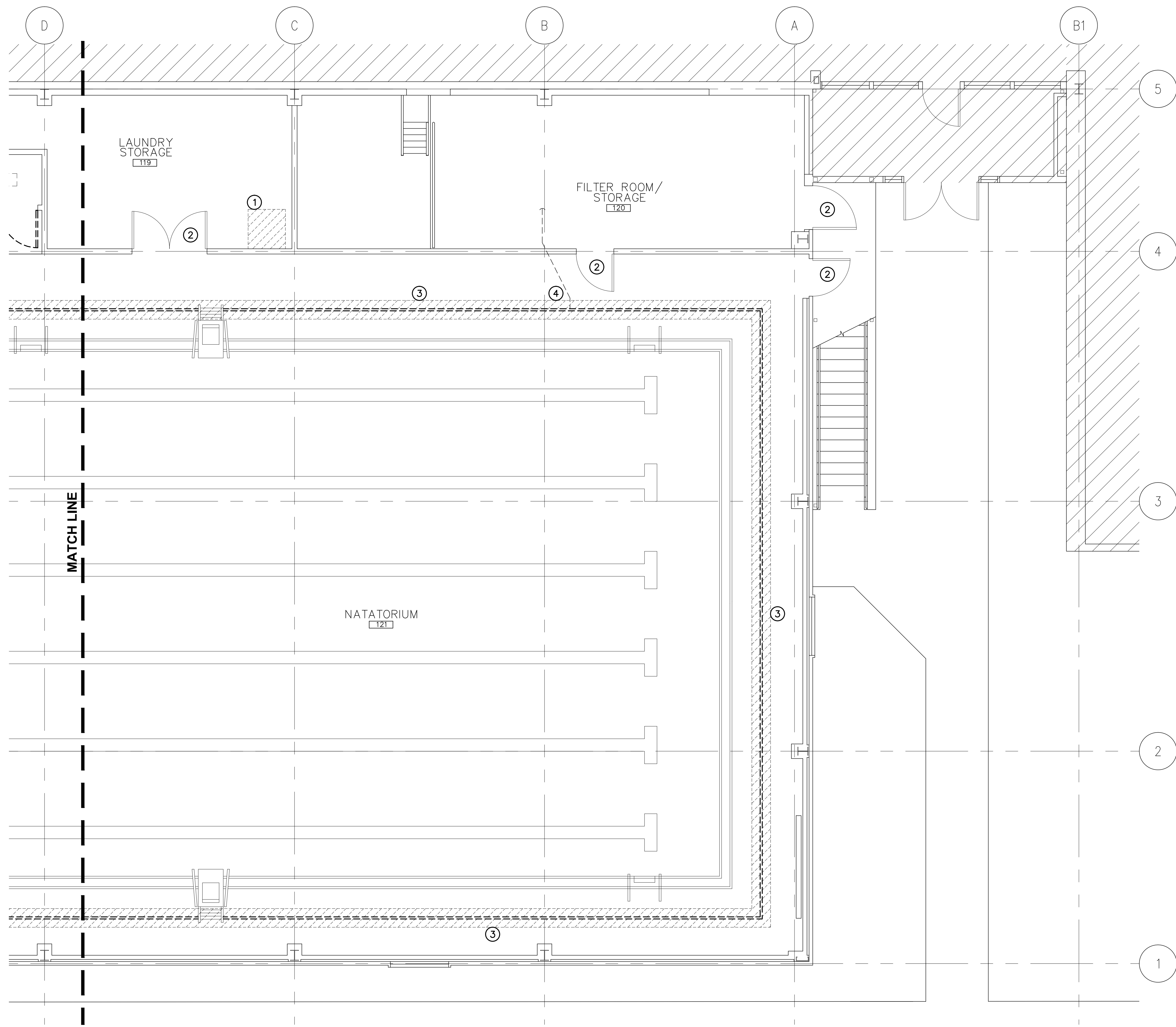
Sheet Contents  
DEMO FLOOR PLAN  
FIRST FLOOR WEST

Category Sheet

A1 0

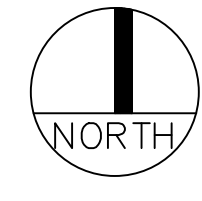
HALF SIZE CONTRACT DOCUMENT 17" x 22"  
FULL SIZE CONTRACT DOCUMENT 30" x 42"





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A1.1 DEMOLITION FLOOR PLAN – FIRST FLOOR / EAST

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



### GENERAL NOTES

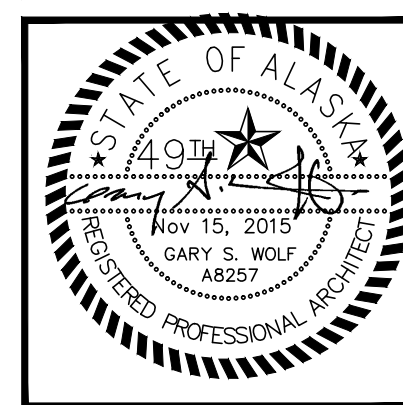
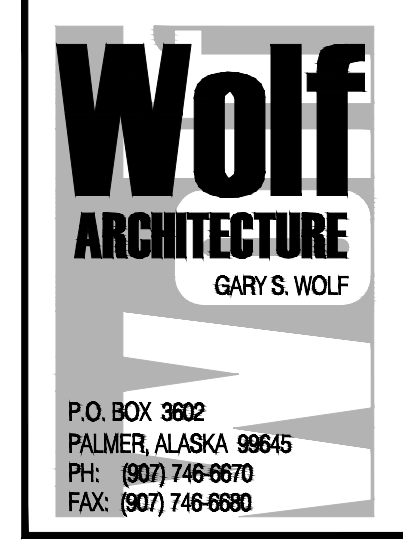
- NOTE: GENERAL NOTES APPLY TO ALL AREAS/SPACES WITHIN THE SCOPE OF WORK UNLESS OTHERWISE NOTED
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  2. REMOVE AND SALVAGE ALL WALL MOUNTED MIRRORS IN LOCKER ROOMS AND TOILET ROOMS. PREPARE FOR REUSE.
  3. REMOVE AND DISPOSE OF ALL PLASTIC WALL PANELS. SEE FIRST FLOOR FINISH PLAN – DEMOLITION
  4. REMOVE AND DISPOSE OF ALL WALL TILE AND SUBSTRATE MATERIAL. SEE FIRST FLOOR FINISH PLAN – DEMOLITION
  5. REMOVE AND DISPOSE OF ALL FLOOR TILE, TILE BASE, AND ASSOCIATED TRIM AND ACCESSORIES. SEE FIRST FLOOR FINISH PLAN – DEMOLITION
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  9. REMOVE AND DISPOSE OF ELECTRIC HAND DRYERS.
  10. LIMIT WORK TO SPACES INDICATED. TAKE CARE TO PROTECT ADJACENT FINISHES.
  11. PROVIDE PLASTIC WORK BARRIER AT ALL AREAS OF CONSTRUCTION
  12. CLOSE OFF OR OTHERWISE ELIMINATE AIR INFILTRATION INTO MECHANICAL SYSTEM DURING DEMOLITION OR OTHER CONSTRUCTION ACTIVITIES WHICH COULD CONTAMINATE FILTERS
  13. MODIFY EXISTING SPRINKLER SYSTEM AND ADJUST SPRINKLER HEADS IN ALL AREAS AS NECESSARY TO COMPLY WITH ALL CURRENT NFPA REQUIREMENTS.
  14. REMOVE AND SALVAGE EXISTING CEILING VENTILATION GRILLES. CLEAN AND PREPARE FOR REINSTALLATION.
  15. LIMIT WORK TO SPACES INDICATED. TAKE CARE TO PROTECT ADJACENT FINISHES.
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### SHEET NOTES LEGEND

- ① SAWCUT AND DISPOSE OF EXISTING CONCRETE SLAB TO THE MINIMUM EXTENT PRACTICABLE TO OBTAIN ACCESS TO EXISTING PLUMBING OR TO RUN NEW PLUMBING LINES UNDER THE SLAB. AREAS SHOWN ARE APPROXIMATE. (REFER TO MECHANICAL)
- ② EXISTING DOOR(S) TO REMAIN
- ③ REMOVE EXISTING PERIMETER POOL DRAIN ASSEMBLY – SAWCUT DECK EITHER SIDE AS REQUIRED FOR REMOVAL – PREPARE SLAB FOR INSTALLATION OF NEW REPLACEMENT DRAIN ASSEMBLY
- ④ APPROXIMATE LOCATION OF DRAIN CONNECTION TO MECHANICAL ROOM – FIELD VERIFY TAKE CARE TO PROTECT EXISTING DRAIN CONNECTION FOR REINSTALLATION OF NEW DRAIN ASSEMBLY

### FLOOR PLAN LEGEND

- EXISTING WALL / ELEMENT TO REMAIN
- - - - EXISTING WALL / ELEMENT TO BE DEMOLISHED
- /// APPROXIMATE AREA OF CONCRETE REMOVAL – SEE SHEET NOTES



CITY OF UNALASKA - AQUATICS CENTER IMPROVEMENTS  
55 EAST BROADWAY  
UNALASKA, ALASKA

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Sheet Contents  
DEMO FLOOR PLAN  
FIRST FLOOR EAST

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| Category | Sheet |
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1/2" SIZE CONTRACT DOCUMENT 17" x 22"  
FULL SIZE CONTRACT DOCUMENT 30" x 42"

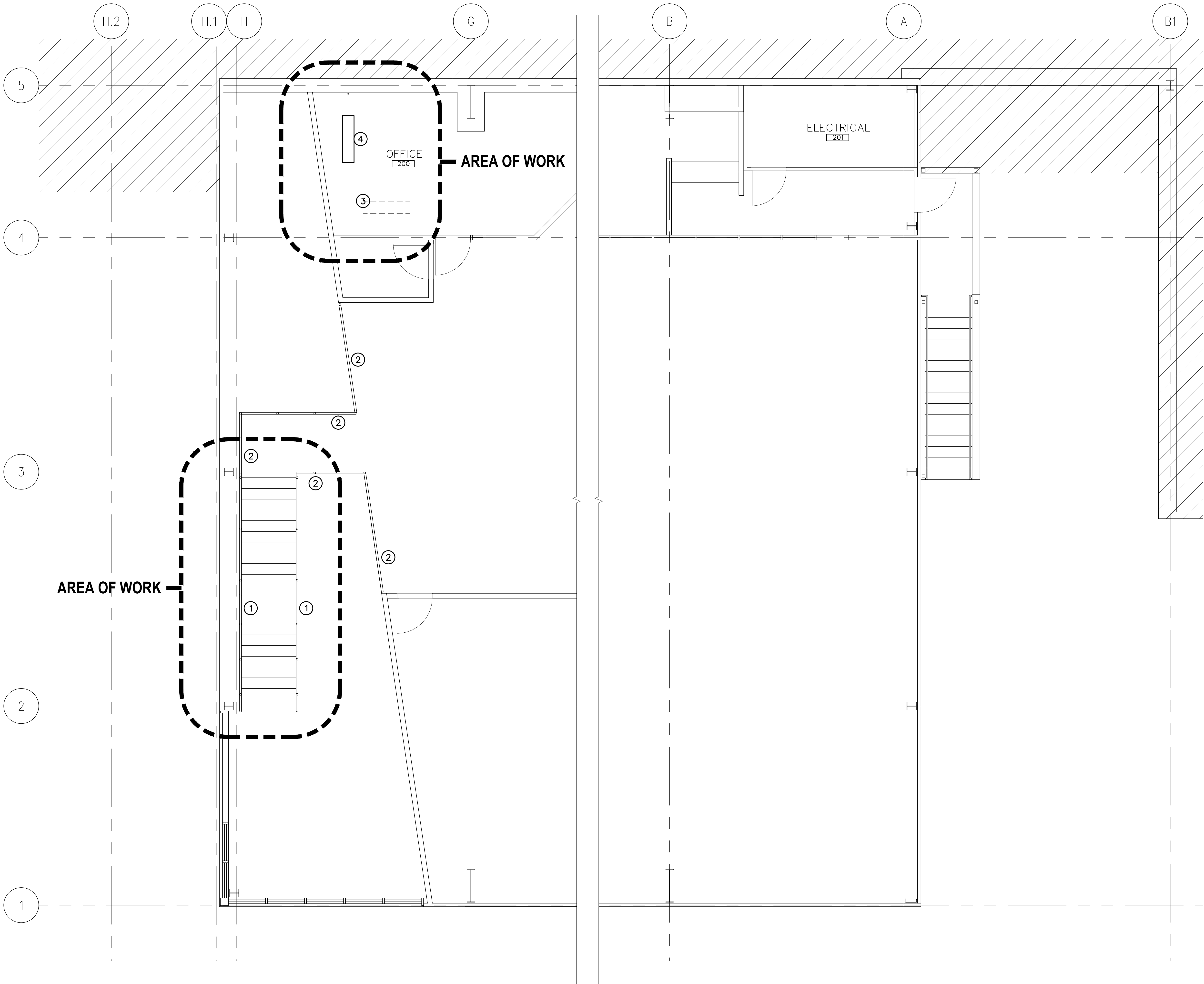
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A1.2

DEMOLITION PLAN – SECOND FLOOR WEST/EAST

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



## GENERAL NOTES

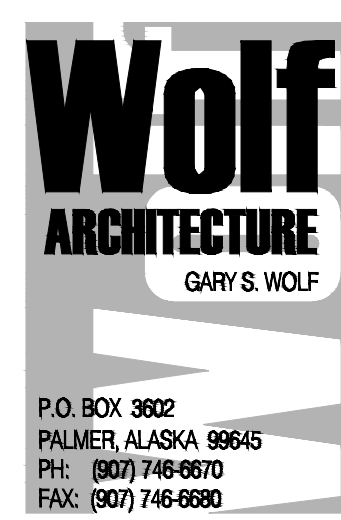
- NOTE: GENERAL NOTES APPLY TO ALL AREAS/SPACES WITHIN THE SCOPE OF WORK UNLESS OTHERWISE NOTED
1. REMOVE AND SALVAGE ALL WALL CLOCKS. PREPARE FOR REUSE. INSTALL WHERE DIRECTED BY OWNER
  2. REMOVE AND SALVAGE ALL WALL MOUNTED MIRRORS IN LOCKER ROOMS AND TOILET ROOMS. PREPARE FOR REUSE.
  3. REMOVE AND DISPOSE OF ALL PLASTIC WALL PANELS. SEE FIRST FLOOR FINISH PLAN – DEMOLITION
  4. REMOVE AND DISPOSE OF ALL WALL TILE AND SUBSTRATE MATERIAL. SEE FIRST FLOOR FINISH PLAN – DEMOLITION
  5. REMOVE AND DISPOSE OF ALL FLOOR TILE, TILE BASE, AND ASSOCIATED TRIM AND ACCESSORIES. SEE FIRST FLOOR FINISH PLAN – DEMOLITION
  6. REMOVE AND DISPOSE OF ALL WALL-MOUNTED COAT/TOWEL RACKS.
  7. REMOVE AND DISPOSE OF ALL INTERIOR SIGNAGE. PREPARE SURFACES FOR INSTALLATION OF NEW SIGNS.
  8. REMOVE AND SALVAGE PAPER TOWEL DISPENSERS, TOILET PAPER DISPENSERS, SANITARY PRODUCT DISPENSERS, WASTE RECEPTACLES, ETC. IN ALL MEN'S AND WOMEN'S STAFF ROOMS, LOCKER ROOMS, SHOWER ROOMS, TOILET ROOMS, AND HALLS. PREPARE FOR REUSE.
  9. REMOVE AND DISPOSE OF ELECTRIC HAND DRYERS.
  10. LIMIT WORK TO SPACES INDICATED. TAKE CARE TO PROTECT ADJACENT FINISHES.
  11. PROVIDE PLASTIC WORK BARRIER AT ALL AREAS OF CONSTRUCTION
  12. CLOSE OFF OR OTHERWISE ELIMINATE AIR INFILTRATION INTO MECHANICAL SYSTEM DURING DEMOLITION OR OTHER CONSTRUCTION ACTIVITIES WHICH COULD CONTAMINATE FILTERS
  13. MODIFY EXISTING SPRINKLER SYSTEM AND ADJUST SPRINKLER HEADS IN ALL AREAS AS NECESSARY TO COMPLY WITH ALL CURRENT NFPA REQUIREMENTS.
  14. REMOVE AND SALVAGE EXISTING CEILING VENTILATION GRILLES. CLEAN AND PREPARE FOR REINSTALLATION.
  15. LIMIT WORK TO SPACES INDICATED. TAKE CARE TO PROTECT ADJACENT FINISHES.
  16. CLOSE OFF OR OTHERWISE ELIMINATE AIR INFILTRATION INTO MECHANICAL SYSTEM DURING DEMOLITION OR OTHER CONSTRUCTION ACTIVITIES WHICH COULD CONTAMINATE FILTERS

## SHEET NOTES LEGEND

1. MODIFY EXISTING 36" HIGH GUARDRAIL/HANDRAIL ASSEMBLY PER DETAILS ON SHEET A5.2
2. EXISTING GUARDRAIL TO REMAIN.
3. REMOVE AND SALVAGE EXISTING LIGHT FIXTURE AS NECESSARY. (REFER TO ELECTRICAL)
4. EXISTING LIGHT FIXTURE TO REMAIN. (REFER TO ELECTRICAL)
5. PATCH AND REPAIR FLOORS, WALLS, AND CEILINGS AS NEEDED DUE TO IMPACT OF MECHANICAL AND ELECTRICAL WORK. MATCH ADJACENT MATERIAL FINISHES.

## FLOOR PLAN LEGEND

- EXISTING WALL / ELEMENT TO REMAIN
- EXISTING WALL / ELEMENT TO BE DEMOLISHED
- /// APPROXIMATE AREA OF CONCRETE REMOVAL – SEE SHEET NOTES



CITY OF UNALASKA - AQUATICS CENTER IMPROVEMENTS  
55 EAST BROADWAY  
UNALASKA, ALASKA

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| Drawn   | Date<br>11/15/15 |
| Checked | Job No.<br>1502  |

| Revision | Date |
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Sheet Contents  
DEMO FLOOR PLAN  
SECOND FLOOR

| Category | Sheet |
|----------|-------|
| A1       | 2     |

HALF SIZE CONTRACT DOCUMENT 17" x 22"  
FULL SIZE CONTRACT DOCUMENT 30" x 42"



## GENERAL NOTES

NOTE: GENERAL NOTES APPLY TO ALL AREAS/SPACES WITHIN THE SCOPE OF WORK UNLESS OTHERWISE NOTED

1. REMOVE AND SALVAGE ALL WALL CLOCKS. PREPARE FOR REUSE. INSTALL WHERE DIRECTED BY OWNER
2. REMOVE AND SALVAGE ALL WALL MOUNTED MIRRORS IN LOCKER ROOMS AND TOILET ROOMS. PREPARE FOR REUSE.
3. REMOVE AND DISPOSE OF ALL PLASTIC WALL PANELS. SEE FIRST FLOOR FINISH PLAN - DEMOLITION
4. REMOVE AND DISPOSE OF ALL WALL TILE AND SUBSTRATE MATERIAL. SEE FIRST FLOOR FINISH PLAN - DEMOLITION
5. REMOVE AND DISPOSE OF ALL FLOOR TILE, TILE BASE, AND ASSOCIATED TRIM AND ACCESSORIES. SEE FIRST FLOOR FINISH PLAN - DEMOLITION
6. REMOVE AND DISPOSE OF ALL WALL-MOUNTED COAT/TOWEL RACKS.
7. REMOVE AND DISPOSE OF ALL INTERIOR SIGNAGE. PREPARE SURFACES FOR INSTALLATION OF NEW SIGNS.
8. REMOVE AND SALVAGE PAPER TOWEL DISPENSERS, TOILET PAPER DISPENSERS, SANITARY PRODUCT DISPENSERS, WASTE RECEPTACLES, ETC. IN ALL MEN'S AND WOMEN'S STAFF ROOMS, LOCKER ROOMS, SHOWER ROOMS, TOILET ROOMS, AND HALLS. PREPARE FOR REUSE.
9. REMOVE AND DISPOSE OF ELECTRIC HAND DRYERS.
10. LIMIT WORK TO SPACES INDICATED. TAKE CARE TO PROTECT ADJACENT FINISHES.
11. PROVIDE PLASTIC WORK BARRIER AT ALL AREAS OF CONSTRUCTION
12. CLOSE OFF OR OTHERWISE ELIMINATE AIR INFILTRATION INTO MECHANICAL SYSTEM DURING DEMOLITION OR OTHER CONSTRUCTION ACTIVITIES WHICH COULD CONTAMINATE FILTERS
13. MODIFY EXISTING SPRINKLER SYSTEM AND ADJUST SPRINKLER HEADS IN ALL AREAS AS NECESSARY TO COMPLY WITH ALL CURRENT NFPA REQUIREMENTS.
14. REMOVE AND SALVAGE EXISTING CEILING VENTILATION GRILLES. CLEAN AND PREPARE FOR REINSTALLATION.
15. LIMIT WORK TO SPACES INDICATED. TAKE CARE TO PROTECT ADJACENT FINISHES.
16. CLOSE OFF OR OTHERWISE ELIMINATE AIR INFILTRATION INTO MECHANICAL SYSTEM DURING DEMOLITION OR OTHER CONSTRUCTION ACTIVITIES WHICH COULD CONTAMINATE FILTERS

## SHEET NOTES LEGEND

- ① EXISTING CEILING FINISH(S) TO REMAIN. (REFER TO ROOM FINISH SCHEDULE)
- ② EXISTING LIGHTING FIXTURE(S) TO REMAIN. (REFER TO ELECTRICAL)
- ③ REMOVE AND DISPOSE OF EXISTING ELECTRICAL LIGHTING FIXTURE(S). (REFER TO ELECTRICAL)
- ④ EXISTING LOUVER TO REMAIN

## REFLECTED CEILING PLAN LEGEND

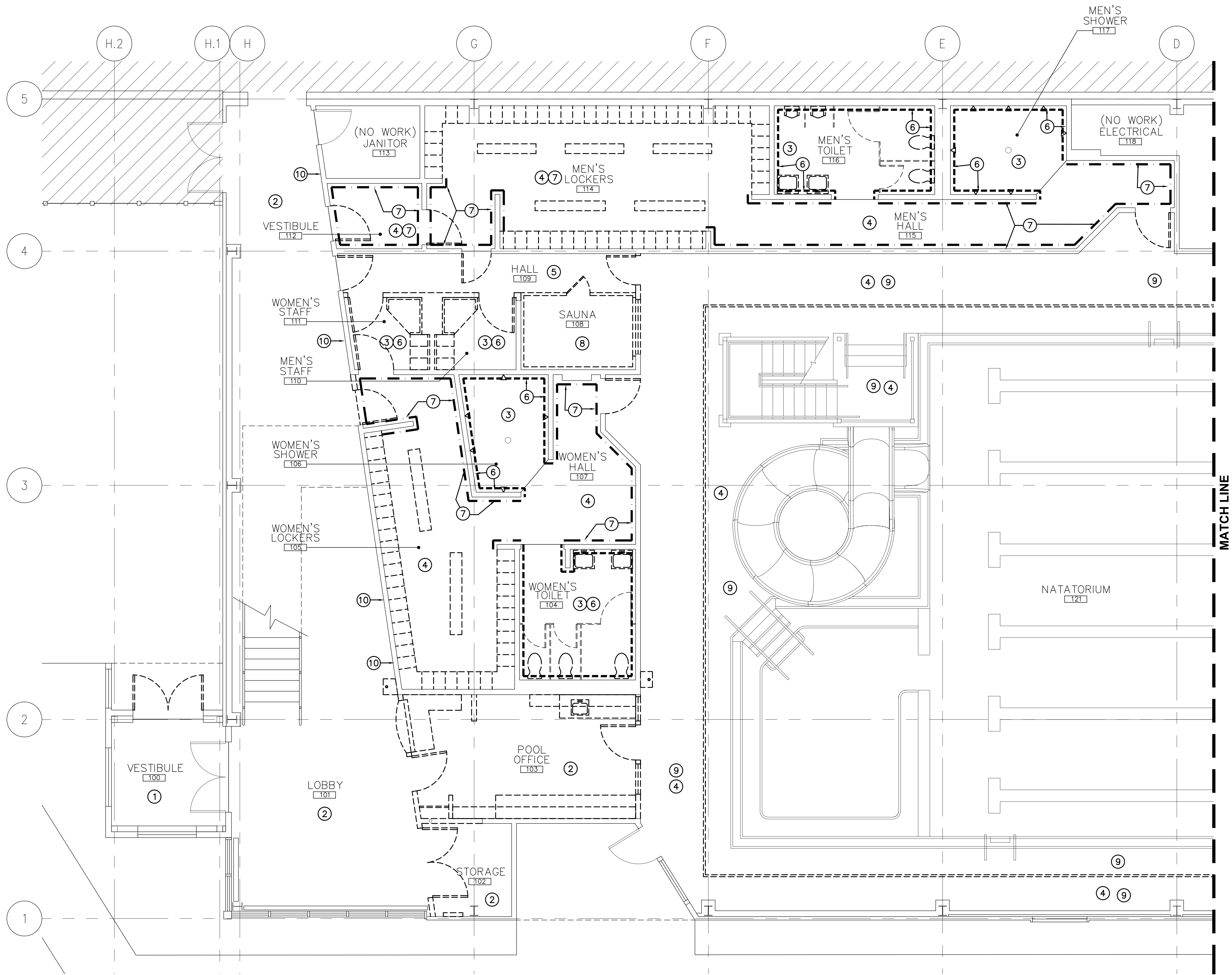
- |  |   |
|--|---|
|  | EXISTING GMB CEILING / SOFFIT TO REMAIN                     |
|  | EXISTING GMB CEILING TO BE REMOVED                          |
|  | EXISTING PLASTIC CEILING PANELS AND SUBSTRATE TO BE REMOVED |
|  | EXISTING WOOD SLAT CEILING TO BE REMOVED                    |



1  
A1.3 DEMOLITION REFLECTED CEILING PLAN - FIRST FLOOR / WEST

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





1  
A1.4 DEMOLITION FINISH PLAN — FIRST FLOOR / WEST

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



## GENERAL NOTES

NOTE: GENERAL NOTES APPLY TO ALL AREAS/SPACES WITHIN THE SCOPE OF WORK UNLESS OTHERWISE NOTED

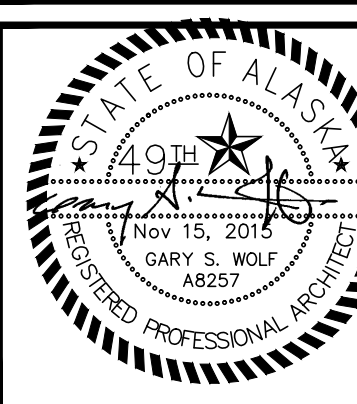
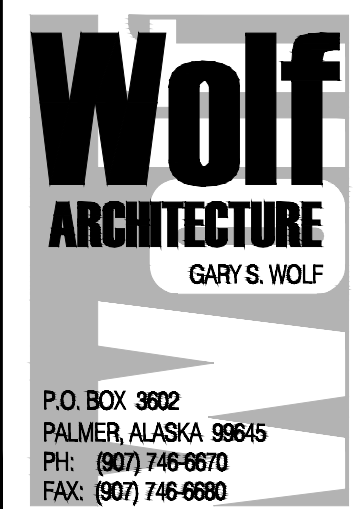
1. REMOVE AND SALVAGE ALL WALL CLOCKS. PREPARE FOR REUSE. INSTALL WHERE DIRECTED BY OWNER
2. REMOVE AND SALVAGE ALL WALL MOUNTED MIRRORS IN LOCKER ROOMS AND TOILET ROOMS. PREPARE FOR REUSE.
3. REMOVE AND DISPOSE OF ALL PLASTIC WALL PANELS. SEE FIRST FLOOR FINISH PLAN — DEMOLITION
4. REMOVE AND DISPOSE OF ALL WALL TILE AND SUBSTRATE MATERIAL. SEE FIRST FLOOR FINISH PLAN — DEMOLITION
5. REMOVE AND DISPOSE OF ALL FLOOR TILE, TILE BASE, AND ASSOCIATED TRIM AND ACCESSORIES. SEE FIRST FLOOR FINISH PLAN — DEMOLITION
6. REMOVE AND DISPOSE OF ALL WALL-MOUNTED COAT/TOWEL RACKS.
7. REMOVE AND DISPOSE OF ALL INTERIOR SIGNAGE. PREPARE SURFACES FOR INSTALLATION OF NEW SIGNS.
8. REMOVE AND SALVAGE PAPER TOWEL DISPENSERS, TOILET PAPER DISPENSERS, SANITARY PRODUCT DISPENSERS, WASTE RECEPTACLES, ETC. IN ALL MEN'S AND WOMEN'S STAFF ROOMS, LOCKER ROOMS, SHOWER ROOMS, TOILET ROOMS, AND HALLS. PREPARE FOR REUSE.
9. REMOVE AND DISPOSE OF ELECTRIC HAND DRYERS.
10. LIMIT WORK TO SPACES INDICATED. TAKE CARE TO PROTECT ADJACENT FINISHES.
11. PROVIDE PLASTIC WORK BARRIER AT ALL AREAS OF CONSTRUCTION
12. CLOSE OFF OR OTHERWISE ELIMINATE AIR INFILTRATION INTO MECHANICAL SYSTEM DURING DEMOLITION OR OTHER CONSTRUCTION ACTIVITIES WHICH COULD CONTAMINATE FILTERS
13. MODIFY EXISTING SPRINKLER SYSTEM AND ADJUST SPRINKLER HEADS IN ALL AREAS AS NECESSARY TO COMPLY WITH ALL CURRENT NFPA REQUIREMENTS.
14. REMOVE AND SALVAGE EXISTING CEILING VENTILATION GRILLES. CLEAN AND PREPARE FOR REINSTALLATION.
15. LIMIT WORK TO SPACES INDICATED. TAKE CARE TO PROTECT ADJACENT FINISHES.
16. CLOSE OFF OR OTHERWISE ELIMINATE AIR INFILTRATION INTO MECHANICAL SYSTEM DURING DEMOLITION OR OTHER CONSTRUCTION ACTIVITIES WHICH COULD CONTAMINATE FILTERS

## SHEET NOTES LEGEND

1. REMOVE AND DISPOSE OF EXISTING WALK-OFF CARPET, WALL BASE, TRANSITION STRIPS, AND ACCESSORIES. PREPARE SUBFLOOR TO RECEIVE NEW FLOOR FINISHES PER ROOM FINISH SCHEDULE.
2. REMOVE AND DISPOSE OF EXISTING CARPET, WALL BASE, TRANSITION STRIPS, AND ACCESSORIES. PREPARE SUBFLOOR TO RECEIVE NEW FLOOR FINISHES PER ROOM FINISH SCHEDULE. EXISTING RESILIENT TREADS / RISERS TO REMAIN AT STAIRS.
3. REMOVE AND DISPOSE OF EXISTING TILE FLOORING AND WALL BASE. PREPARE SUBFLOOR TO RECEIVE NEW FLOOR FINISHES PER ROOM FINISH SCHEDULE.
4. REMOVE EXISTING CEMENTITIOUS FINISH/SEALER. PREPARE CONCRETE AS REQUIRED TO RECEIVE NEW COATING SYSTEM.
5. REMOVE AND DISPOSE OF EXISTING RESILIENT FLOORING, WALL BASE, TRANSITION STRIPS, AND ACCESSORIES. PREPARE SUBFLOOR TO RECEIVE NEW FLOOR FINISHES PER ROOM FINISH SCHEDULE.
6. REMOVE AND DISPOSE OF EXISTING CERAMIC WALL TILE AND SUBSTRATE MATERIAL. PREPARE WALLS FOR NEW CEMENT BOARD AND TILE PER ROOM FINISH SCHEDULE.
7. REMOVE AND DISPOSE OF EXISTING PLASTIC WALL PANELS. GMB SUBSTRATE TO REMAIN.
8. REMOVE AND DISPOSE OF ALL SAUNA FLOOR, WALL, AND CEILING FINISHES. PREPARE WALLS TO RECEIVE NEW FINISHES PER ROOM FINISH SCHEDULE.
9. PREPARE EXISTING POOL DECK SLIDE STAIR FOR NEW FINISH (ALT 5)
10. REMOVE EXISTING VINYL WALL COVERING

## FINISH PLAN LEGEND

- EXISTING WALL/ELEMENT TO REMAIN
- - - - - EXISTING WALL / ELEMENT TO BE DEMOLISHED
- . - . - . APPROX. EXTENT OF EXISTING PLASTIC WALL PANELS TO BE REMOVED
- - - - - APPROX. EXTENT OF EXISTING WALL TILE AND SUBSTRATE TO BE REMOVED
- ===== EXISTING DECK DRAIN TO BE REMOVED



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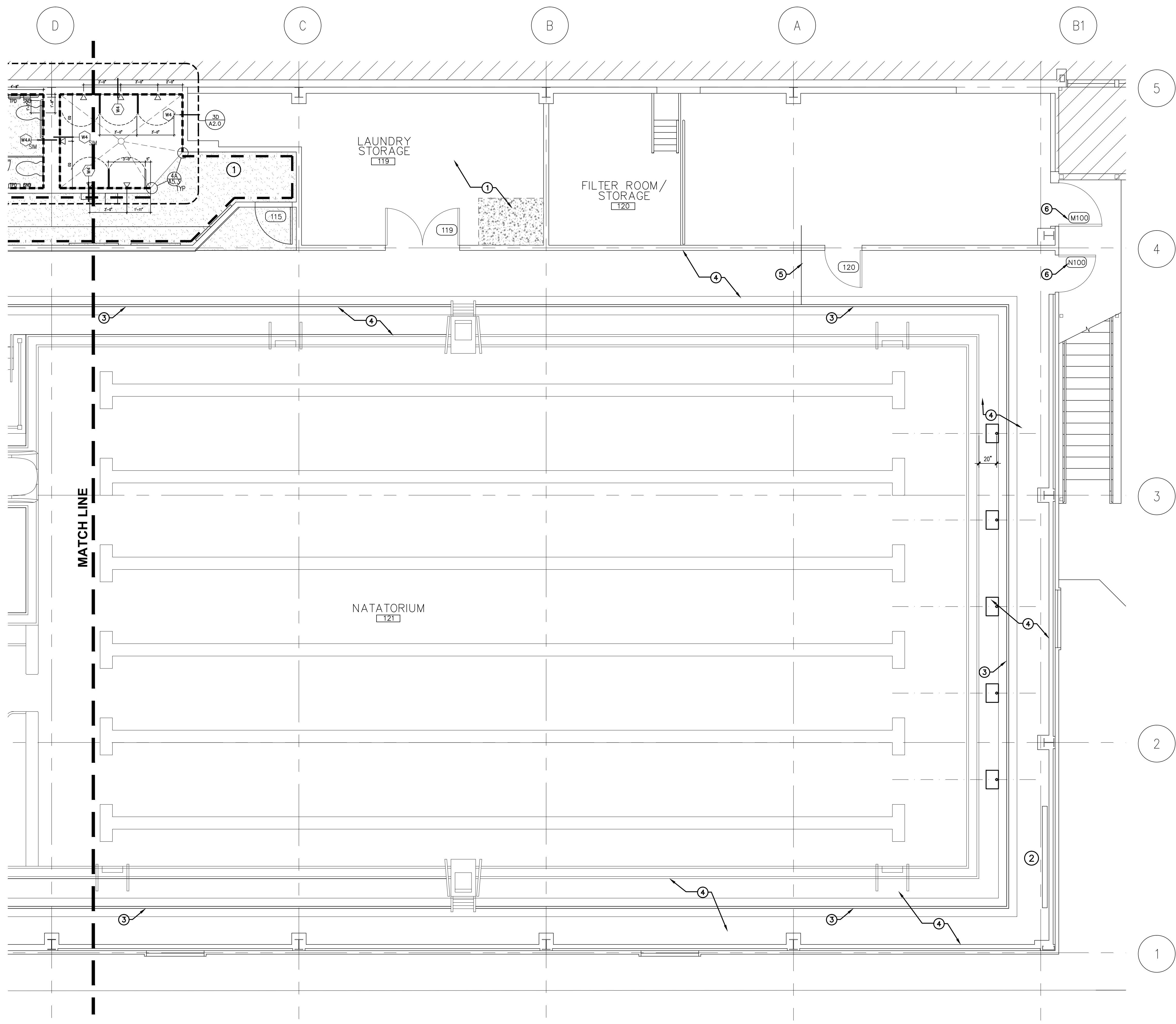
Sheet Contents  
DEMO FINISH PLAN  
FIRST FLOOR WEST

|          |       |
|----------|-------|
| Category | Sheet |
| A1       | 4     |

HALF SIZE CONTRACT DOCUMENT 17" x 22"  
FULL SIZE CONTRACT DOCUMENT 30" x 42"







1 A2.1 RENOVATION FLOOR PLAN – FIRST FLOOR / EAST

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

NORTH

## GENERAL NOTES

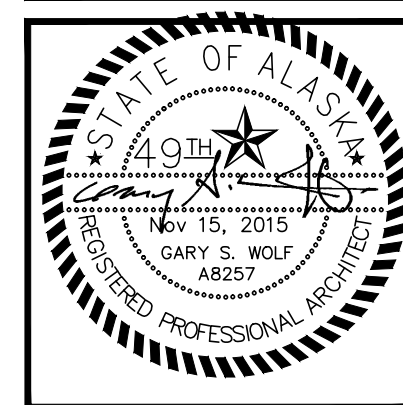
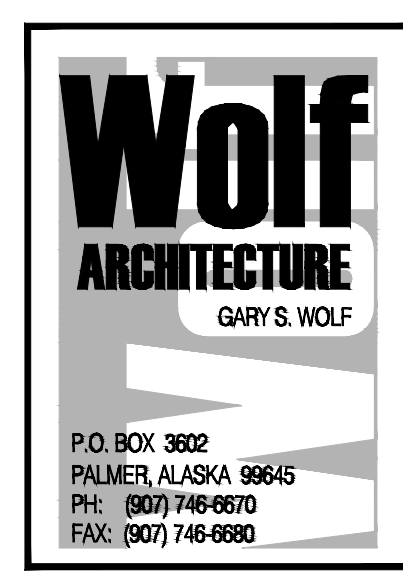
- NOTE: GENERAL NOTES APPLY TO ALL AREAS/SPACES WITHIN THE SCOPE OF WORK UNLESS OTHERWISE NOTED
1. REINSTALL ALL WALL CLOCKS AS DIRECTED BY OWNER.
  2. PREPARE ALL FLOOR, WALL, AND CEILING SURFACES AS REQUIRED TO RECEIVE NEW FINISHES. SEE RENOVATION FINISH PLAN AND ROOM FINISH SCHEDULE.
  3. PROVIDE NEW SUBSTRATES AS REQUIRED TO RECEIVE NEW FINISHES IN AREAS WHERE EXISTING SUBSTRATES WERE SCHEDULED FOR DEMOLITION. SEE RENOVATION FINISH PLAN AND ROOM FINISH SCHEDULE.
  4. PATCH, TEXTURE, AND PAINT ALL GMB WALLS AND CEILINGS THROUGHOUT AREAS/SPACES OF WORK, UNLESS OTHERWISE NOTED. MATCH EXISTING FINISH.
  5. PROVIDE WALL CORNER PROTECTION PER SPECIFICATIONS.
  6. ALL ACCESSORIES AND EQUIPMENT SCHEDULED FOR REUSE SHALL BE REINSTALLED TO MEET ALL ADA ACCESSIBILITY REQUIREMENTS.
  7. ICE MAKER TO BE OWNER FURNISHED / CONTRACTOR INSTALLED

## SHEET NOTES LEGEND

1. PATCH/REPAIR CONCRETE IN ALL AREAS OF CONCRETE REMOVAL. PREPARE ALL CONCRETE AREAS FOR NEW FLOOR COATING SYSTEM. SEE ROOM FINISH SCHEDULE.
2. PROVIDE NEW TIMING SYSTEM DISPLAY BOARD. (REFER TO ELECTRICAL)
3. INSTALL NEW DECK DRAIN ASSEMBLY IN NEW CONCRETE SETTING BED  
– PATCH DECK AND INSTALL NEW POOL DECK SURFACE (SECTION 09705) (ALT. 5)
4. INSTALL NEW POOL DECK SURFACE (SECTION 09705) (ALT. 5) – SEE SHEET A 2.5 FLOOR FINISH PLAN
5. APPROXIMATE LOCATION OF EXISTING UNDERSLAB TRENCH DRAIN CONNECTION
6. ALT. 1 DOOR HARDWARE – SEE DOOR SCHEDULE
7. CORE NEW HOLE IN POOL DECK AND INSTALL NEW STARTING BLOCKS, STARTING BLOCKS TO BE SIM. AND EQUAL TO SPECTRUM GRIZZLEY STARTING BLOCK. HOPE 23"X25" – INSTALL PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS (5 TOTAL) CENTER ON SWIM LANE. CONFIRM FINAL POSITION WITH OWNER PRIOR TO CORE DRILLING HOLES

## FLOOR PLAN LEGEND

- EXISTING WALL/ELEMENT TO REMAIN
- NEW WALL – SEE WALL TYPES
- NEW WALL FINISH AND NEW SUBSTRATE OVER EXISTING FRAMING – SEE WALL TYPES
- APPROXIMATE AREA OF CONCRETE INFILL/REPAIR – SEE SHEET NOTES
- FIRE EXTINGUISHER 2A:10BC



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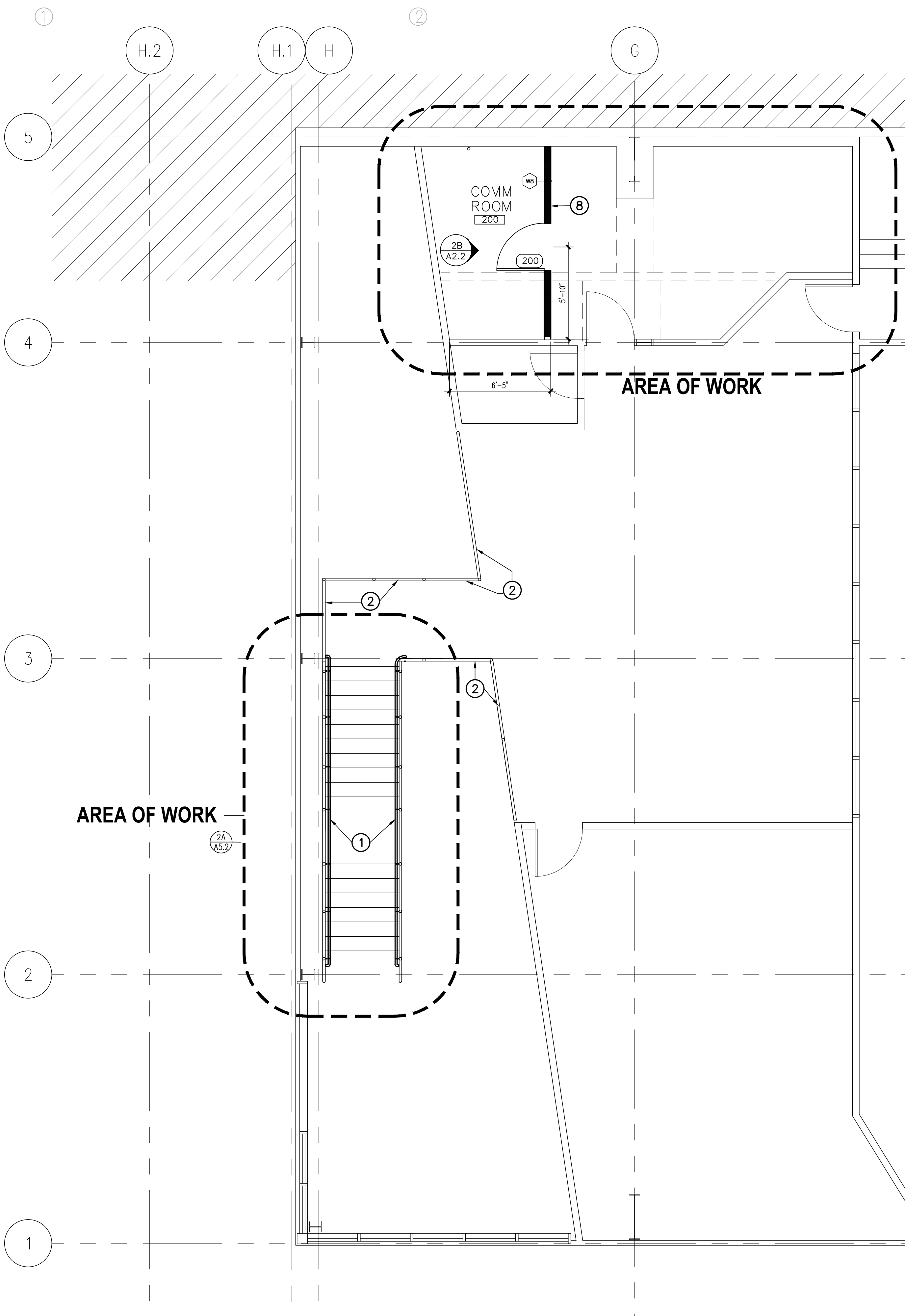
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| Revision | Date |
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Sheet Contents  
RENO PLAN  
FIRST FLOOR EAST

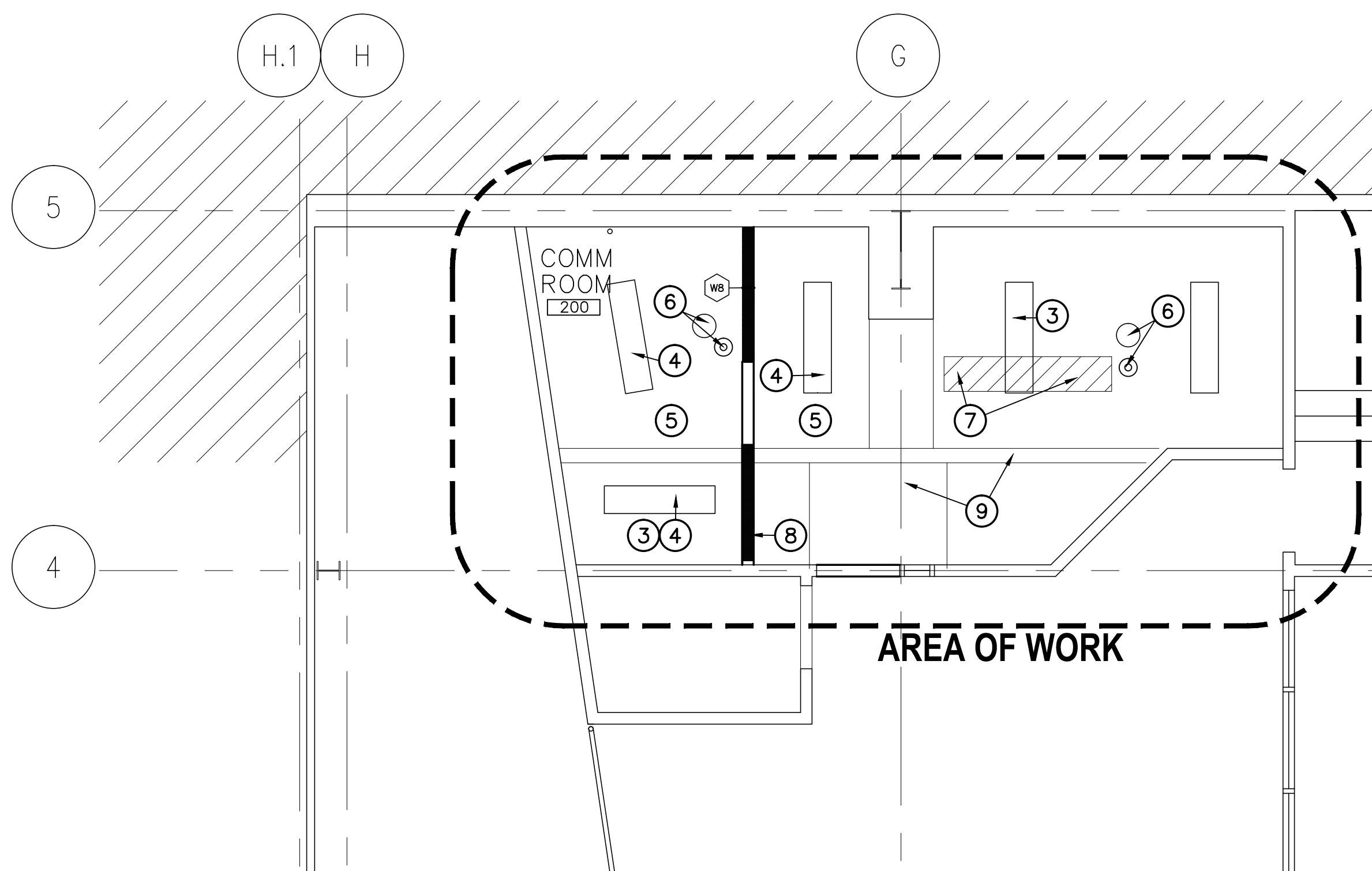
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| Category | Sheet |
| A2       | 1     |

HALF SIZE CONTRACT DOCUMENT 17" x 22"  
FULL SIZE CONTRACT DOCUMENT 30" x 42"

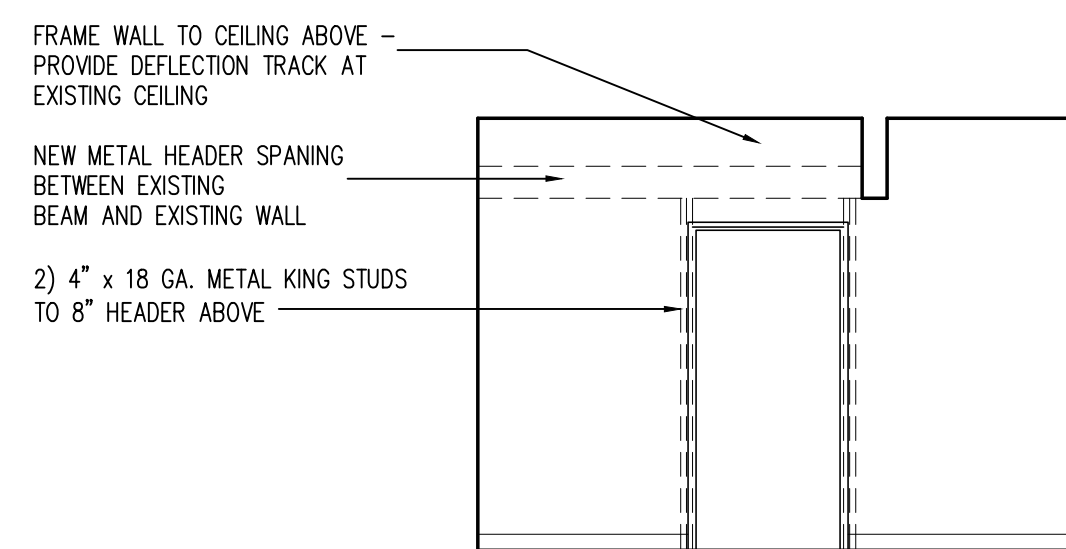




1C  
A2.2 2ND LEVEL PLAN – E/W  
Scale: 1/4"=1'-0"



2A  
A2.2 2ND LEVEL RCP  
Scale: 1/4"=1'-0"



2B  
A2.2 INTERIOR ELEVATION  
Scale: 1/4"=1'-0"

### GENERAL NOTES

NOTE: GENERAL NOTES APPLY TO ALL AREAS/SPACES WITHIN THE SCOPE OF WORK UNLESS OTHERWISE NOTED.

- REINSTALL ALL WALL CLOCKS.
- REINSTALL WALL MOUNTED MIRRORS IN LOCKER ROOMS AND TOILET ROOMS.
- PREPARE ALL FLOOR, WALL, AND CEILING SURFACES AS REQUIRED TO RECEIVE NEW FINISHES. SEE RENOVATION FINISH PLAN AND ROOM FINISH SCHEDULE.
- PROVIDE NEW SUBSTRATES AS REQUIRED TO RECEIVE NEW FINISHES IN AREAS WHERE EXISTING SUBSTRATES WERE SCHEDULED FOR DEMOLITION. SEE RENOVATION FINISH PLAN AND ROOM FINISH SCHEDULE.
- PRIME, TEXTURE, AND PAINT ALL GMB WALLS AND CEILINGS THROUGHOUT AREAS/SPACES OF WORK, UNLESS OTHERWISE NOTED.
- PROVIDE WALL CORNER PROTECTION PER SPECIFICATIONS.
- ALL ACCESSORIES AND EQUIPMENT SCHEDULED FOR REUSE SHALL BE REINSTALLED TO MEET ALL ADA ACCESSIBILITY REQUIREMENTS.

### SHEET NOTES LEGEND

① EXISTING 36" HIGH GUARDRAIL/HANDRAIL ASSEMBLY TO REMAIN. SEE 1A/A5.2 AND ADDITIONAL DETAILS ON SHEET A5.2 REQUIRED TO INCREASE GUARDRAIL TO 42" AND ADD NEW HANDRAIL ON BOTH SIDES OF STAIR

② EXISTING GUARDRAIL TO REMAIN.

③ RELOCATED LIGHT FIXTURE. (REFER TO ELECTRICAL)

④ EXISTING LIGHT FIXTURE TO REMAIN. (REFER TO ELECTRICAL)

⑤ PATCH AND REPAIR FLOORS, WALLS, AND CEILINGS AS NEEDED DUE TO IMPACT OF MECHANICAL AND ELECTRICAL WORK. MATCH ADJACENT MATERIAL FINISHES.

⑥ EXISTING SPRINKLER AND FIRE ALARM TO REMAIN – PROTECT FROM DAMAGE DURING CONSTRUCTION

⑦ DEMO EXISTING CEILING AND LIGHT AS REQUIRED TO EXTEND SPRINKLER LINE AND INSTALL NEW SPRINKLER HEAD NEAR THIS LOCATION – COORDINATE WITH SPRINKLER DESIGNER, REINSTALL LIGHT, PATCH AND PAINT CEILING TO MATCH EXISTING

⑧ INSTALL NEW WALL, DOOR AND FRAME.

⑨ EXISTING BEAM, SOFFIT, AND CEILING TO REMAIN.

### FLOOR PLAN LEGEND

— EXISTING WALL/ELEMENT TO REMAIN

— NEW WALL – SEE WALL TYPES

- - - NEW WALL FINISH AND NEW SUBSTRATE OVER EXISTING FRAMING – SEE WALL TYPES

APPROXIMATE AREA OF CONCRETE INFILL/REPAIR – SEE SHEET NOTES

FIRE EXTINGUISHER 2A-10BC

P.O. BOX 3602  
PALMER, ALASKA 99645  
PH: (907) 746-6800  
FAX: (907) 746-6880

CITY OF UNALASKA - AQUATICS CENTER IMPROVEMENTS  
55 EAST BROADWAY  
UNALASKA, ALASKA

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| Checked  | Job No. |
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| Sheet Contents |
| RENO PLAN      |
| SECOND FLOOR   |
| EAST/WEST      |

|          |       |
|----------|-------|
| Category | Sheet |
| A2       | 2     |

HALF SIZE CONTRACT DOCUMENT 17" x 22"  
FULL SIZE CONTRACT DOCUMENT 30" x 42"

## GENERAL NOTES

NOTE: GENERAL NOTES APPLY TO ALL AREAS/SPACES WITHIN THE SCOPE OF WORK UNLESS OTHERWISE NOTED

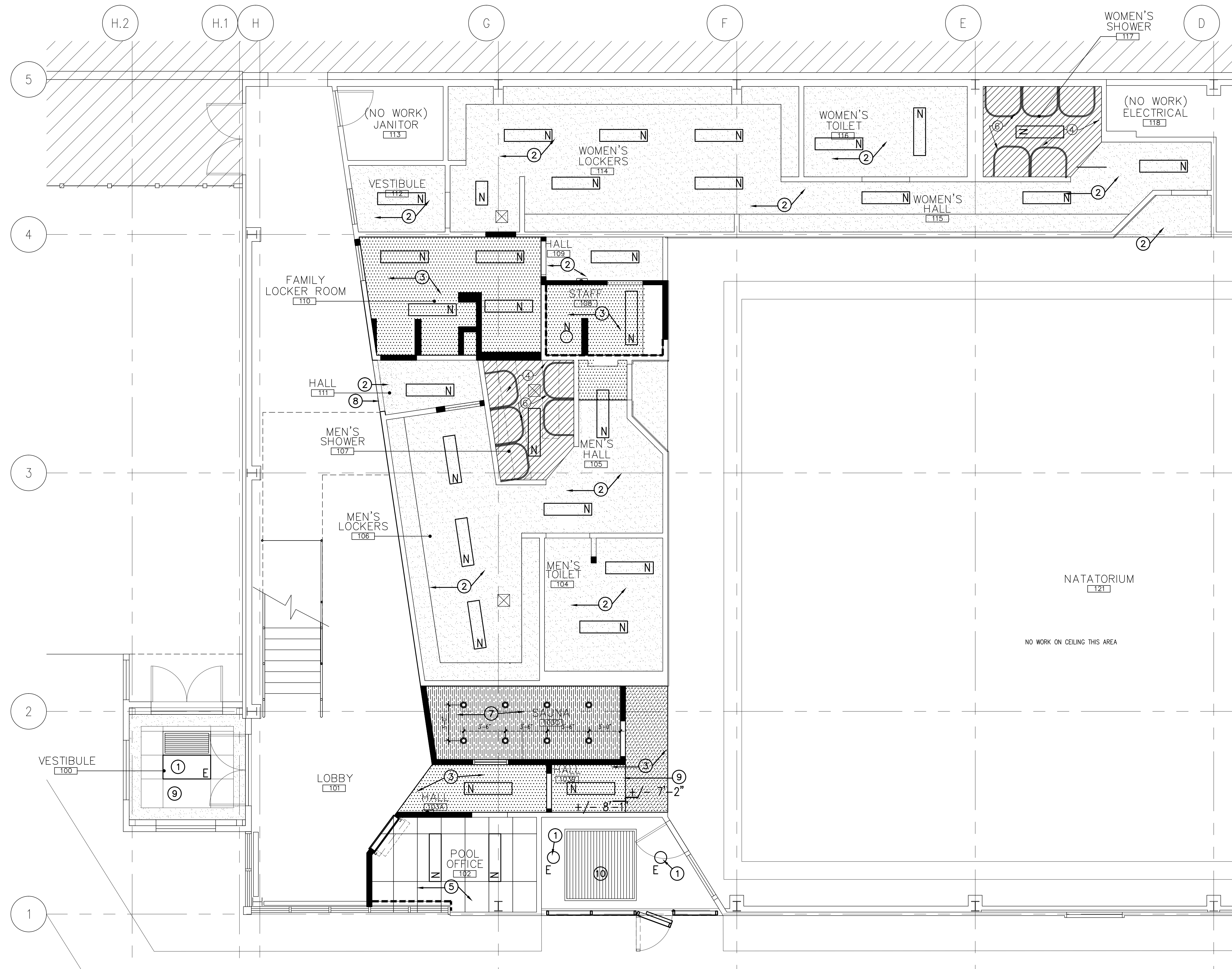
- REINSTALL ALL WALL CLOCKS.
- REINSTALL WALL MOUNTED MIRRORS IN LOCKER ROOMS AND TOILET ROOMS.
- PREPARE ALL FLOOR, WALL, AND CEILING SURFACES AS REQUIRED TO RECEIVE NEW FINISHES. SEE RENOVATION FINISH PLAN AND ROOM FINISH SCHEDULE.
- PROVIDE NEW SUBSTRATES AS REQUIRED TO RECEIVE NEW FINISHES IN AREAS WHERE EXISTING SUBSTRATES WERE SCHEDULED FOR DEMOLITION. SEE RENOVATION FINISH PLAN AND ROOM FINISH SCHEDULE.
- PRIME, TEXTURE, AND PAINT ALL GWB WALLS AND CEILINGS THROUGHOUT AREAS/SPACES OF WORK, UNLESS OTHERWISE NOTED.
- PROVIDE WALL CORNER PROTECTION PER SPECIFICATIONS.
- ALL ACCESSORIES AND EQUIPMENT SCHEDULED FOR REUSE SHALL BE REINSTALLED TO MEET ALL ADA ACCESSIBILITY REQUIREMENTS.

## SHEET NOTES LEGEND

- EXISTING (E) LIGHT FIXTURE TO REMAIN (REFER TO ELECTRICAL)
- EXISTING GWB CEILING/SOFFIT - PATCH AND PAINT
- NEW GWB CEILING/SOFFIT
- NEW RIGID VINYL SHEET PANELS ON NEW GWB SUBSTRATE
- NEW SUSPENDED ACOUSTICAL TILE CEILING ASSEMBLY
- INSTALL NEW BLOCKING FOR CEILING HUNG CURTAIN ROD - SEE 2D/A5.3 FOR INSTALLATION DETAIL
- NEW WOOD CEILING @ SAUNA
- EXTEND GWB SOFFIT TO GWB WALL SURFACE - PROVIDE 'L' METAL AT OUTSIDE SOFFIT AND WALL CORNER.
- STEP SOFFIT AT THIS AREA AS INDICATED
- EXISTING INTAKE LOUVER TO REMAIN

## REFLECTED CEILING PLAN LEGEND

- |  |   |
|--|---|
|  | EXISTING GWB CEILING / SOFFIT TO REMAIN - PRIME AND PAINT                               |
|  | NEW GWB CEILING OR SOFFIT   |
|  | NEW PLASTIC CEILING PANELS OVER NEW GWB SUBSTRATE                                       |
|  | NEW 1X CEDAR T&G CEILING ASSEMBLY OVER NEW GWB SUBSTRATE<br>SEE NEW CEILING ASSEMBLY CT |



1 RENOVATION REFLECTED CEILING PLAN - FIRST FLOOR / WEST  
A2.3 Scale: 1/14"=1'-0"





**CITY OF UNALASKA - AQUATICS CENTER IMPROVEMENTS**  
**55 EAST BROADWAY**  
**UNALASKA, ALASKA**

Drawn Date  
11/15/15

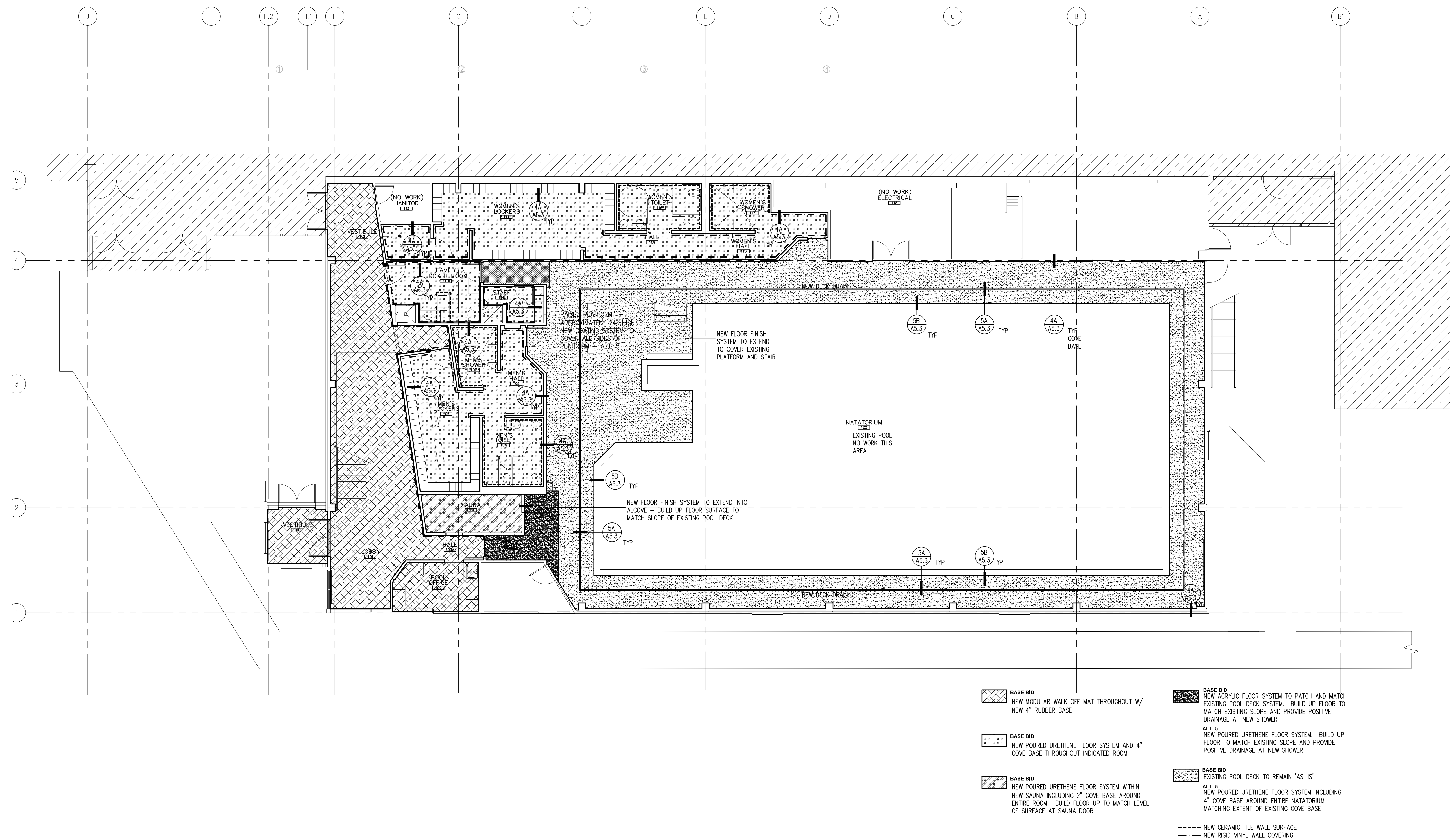
Checked Job No.  
1502

| Revision | Date |
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Sheet Contents  
FLOOR COVERING  
PLAN

Category Sheet

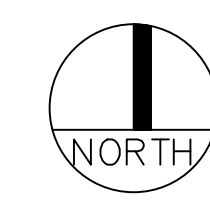
**A2** **4**

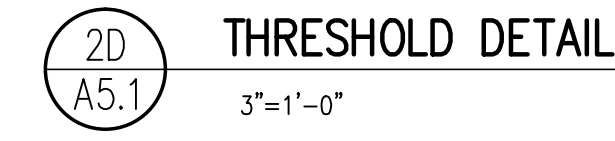
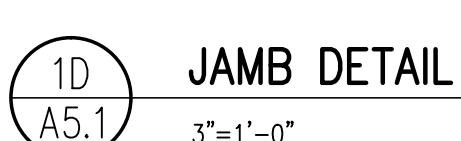
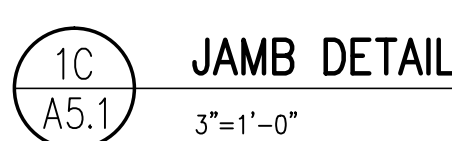
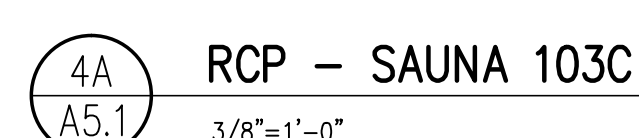


NOTE: PROVIDE FLOOR STAINLESS STEEL TRANSITION STRIPS BETWEEN DISSIMILAR FLOORING MATERIALS UNLESS NOTED OTHERWISE

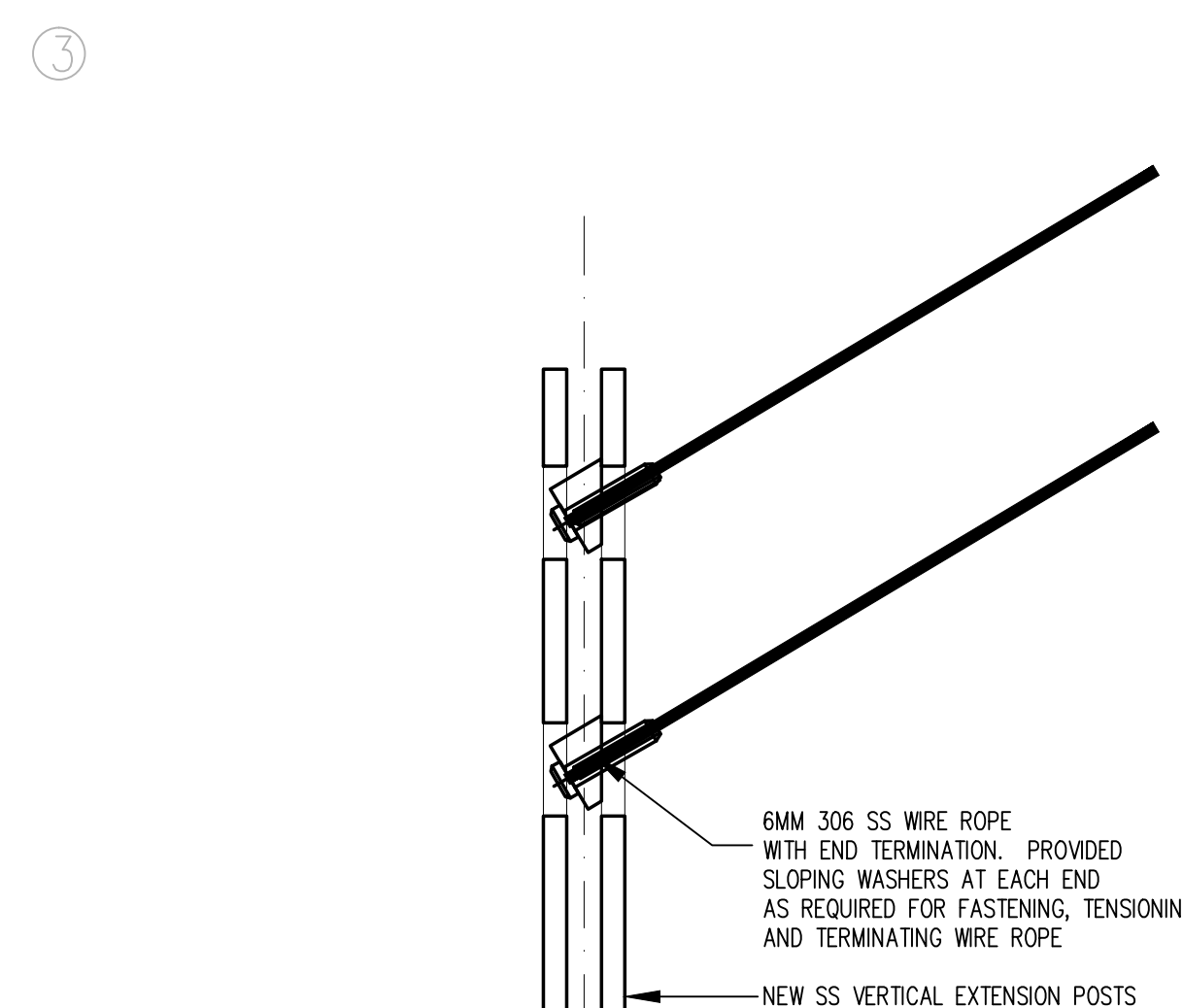
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**A2.4** **FLOOR COVERING PLAN**

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





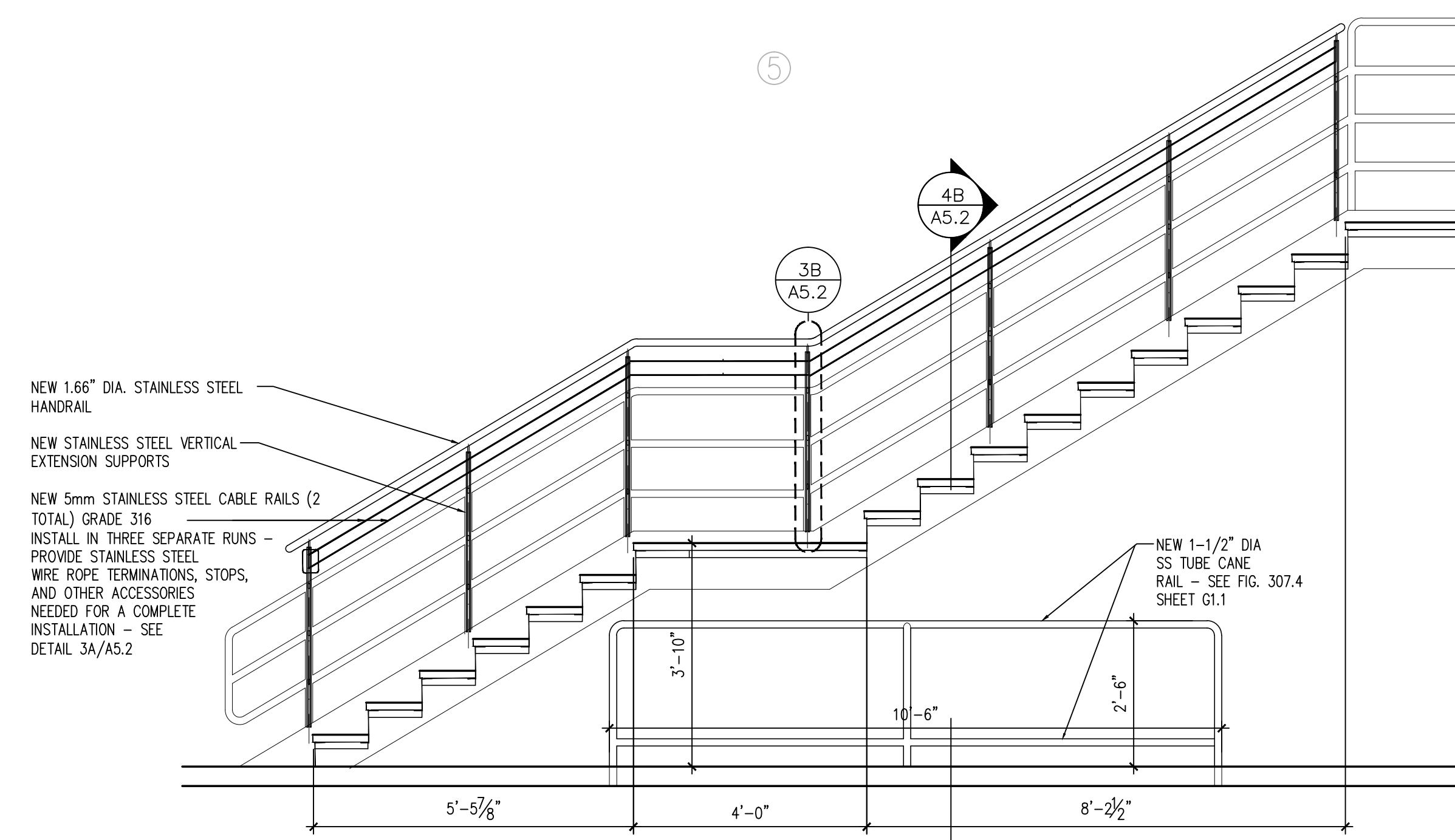




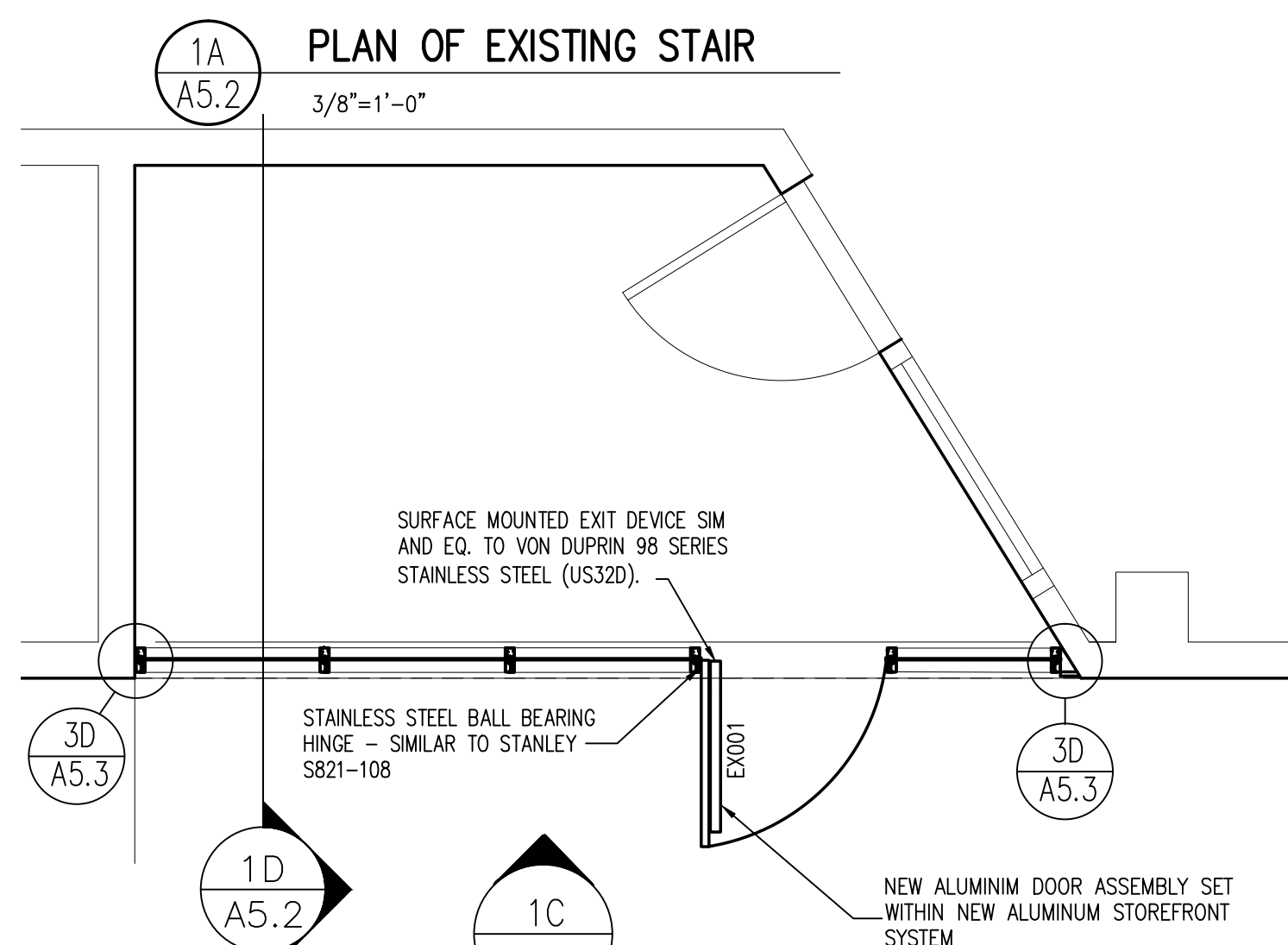
3A  
A5.2

DETAIL AT CABLE RAIL TERMINATION

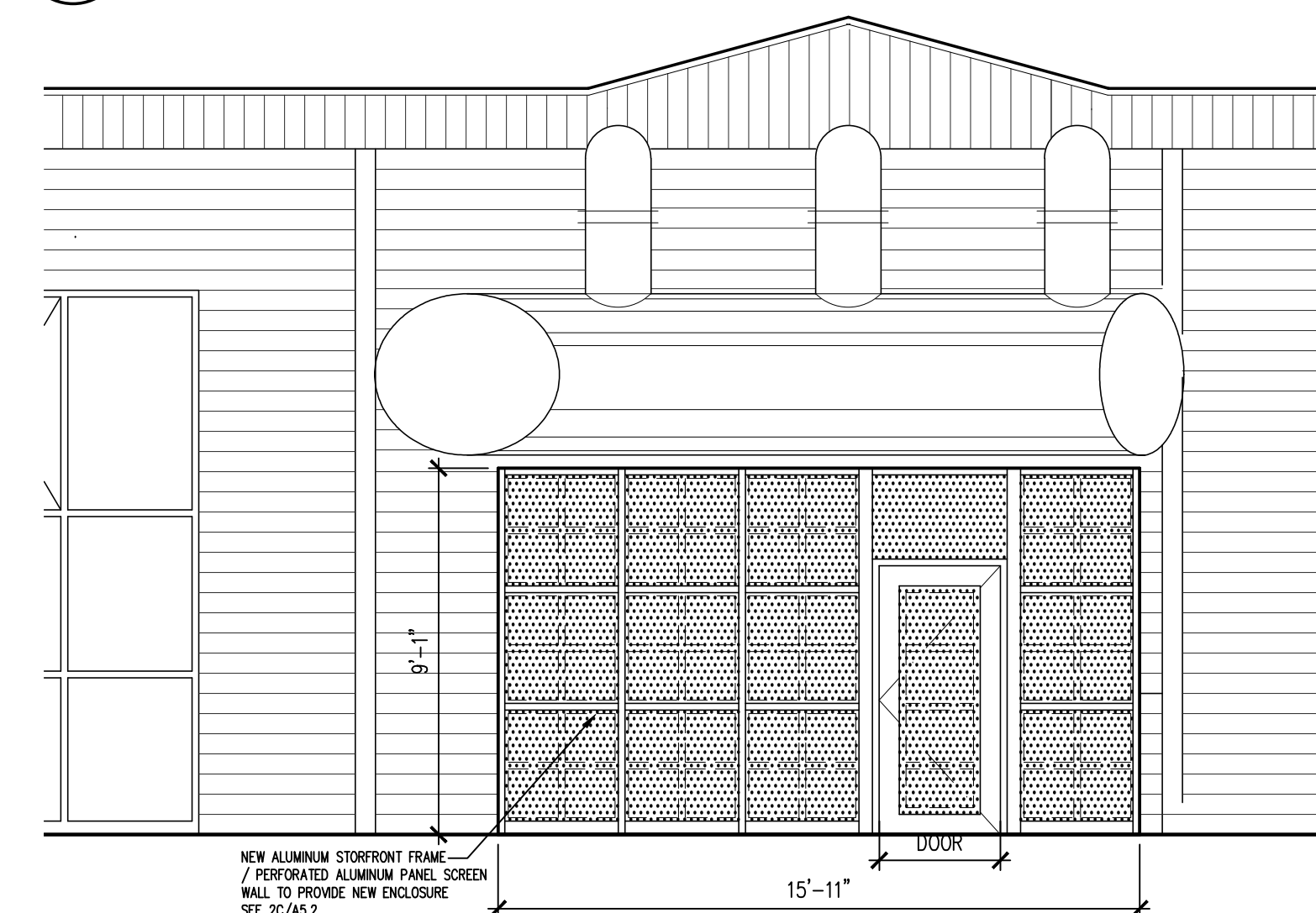
6"=1'-0"



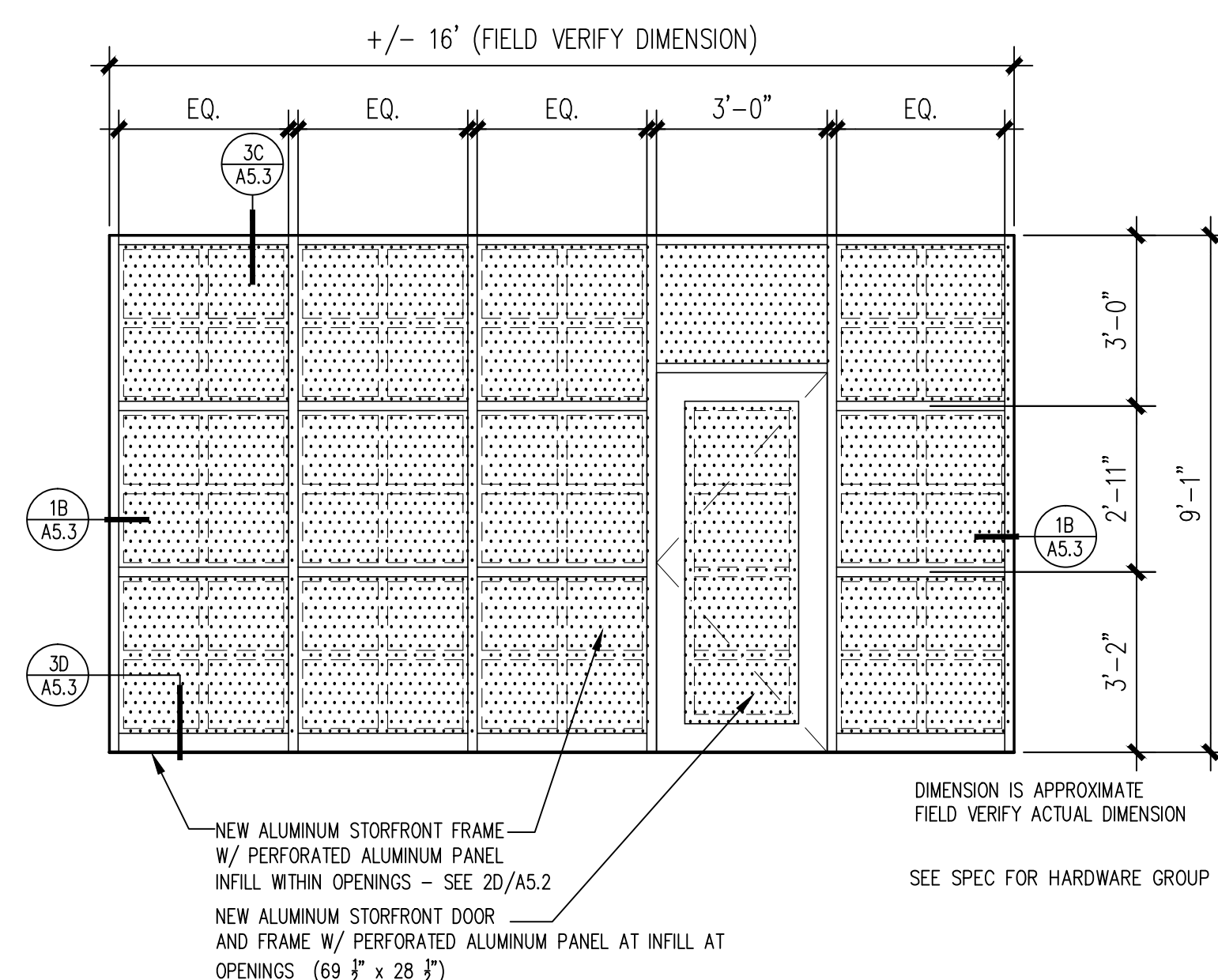
4A  
A5.2 SECTION THRU EXISTING STAIR (SIM BOTH SIDES)  
1/4"=1'-0"



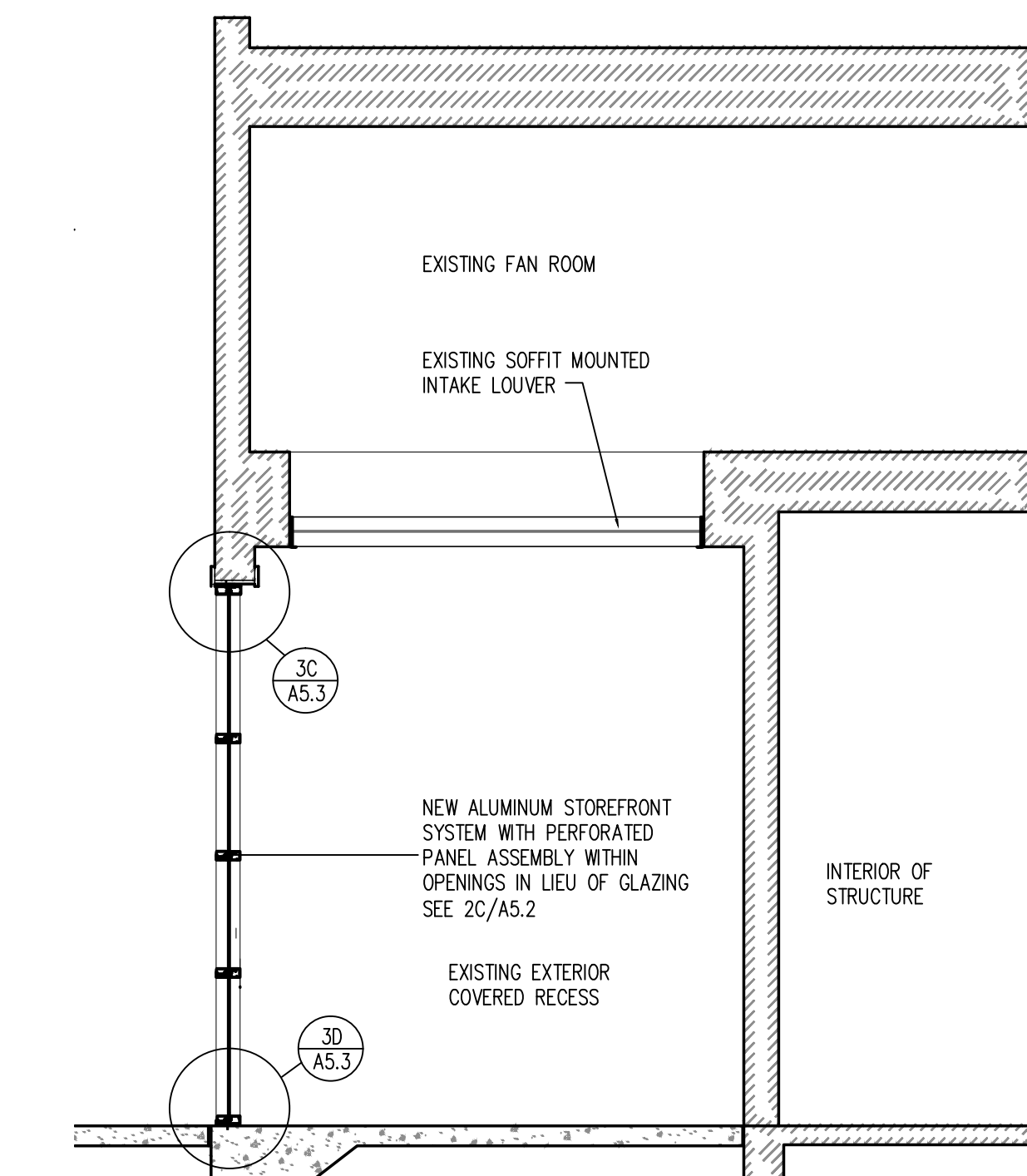
1B PLAN AT EXTERIOR RECESS AT NEW SCREEN WALL  
A5.2 3/8"=1'-0"



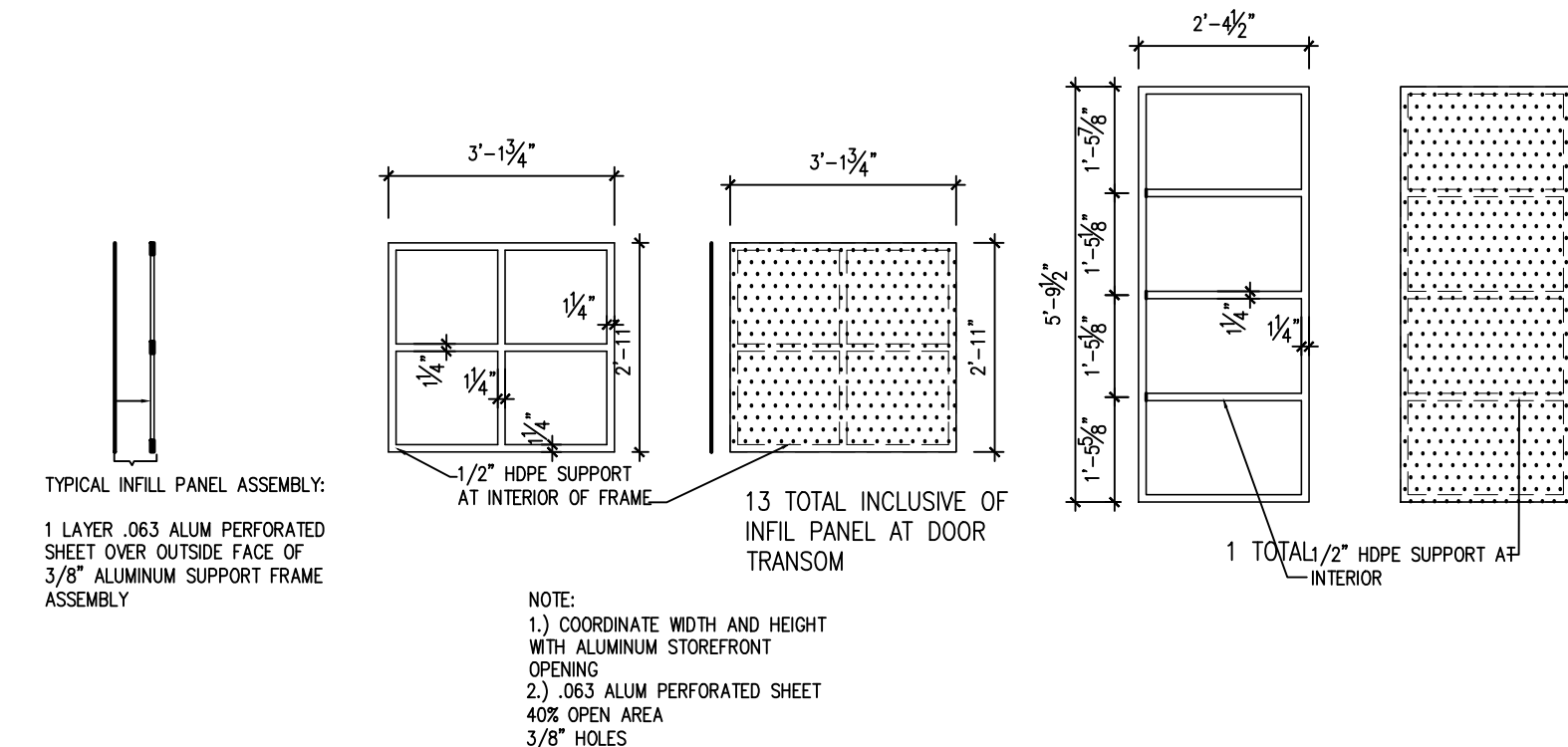
1C  
A5.2 PARTIAL EXT. ELEVATION AT SOUTH RECESS  
1/4"=1'-0"



2C  
A5.2 ALUMINUM WIND SCREEN FRAME ELEVATION  
1/4"=1'-0"



SECTION AT EXTERIOR RECESS

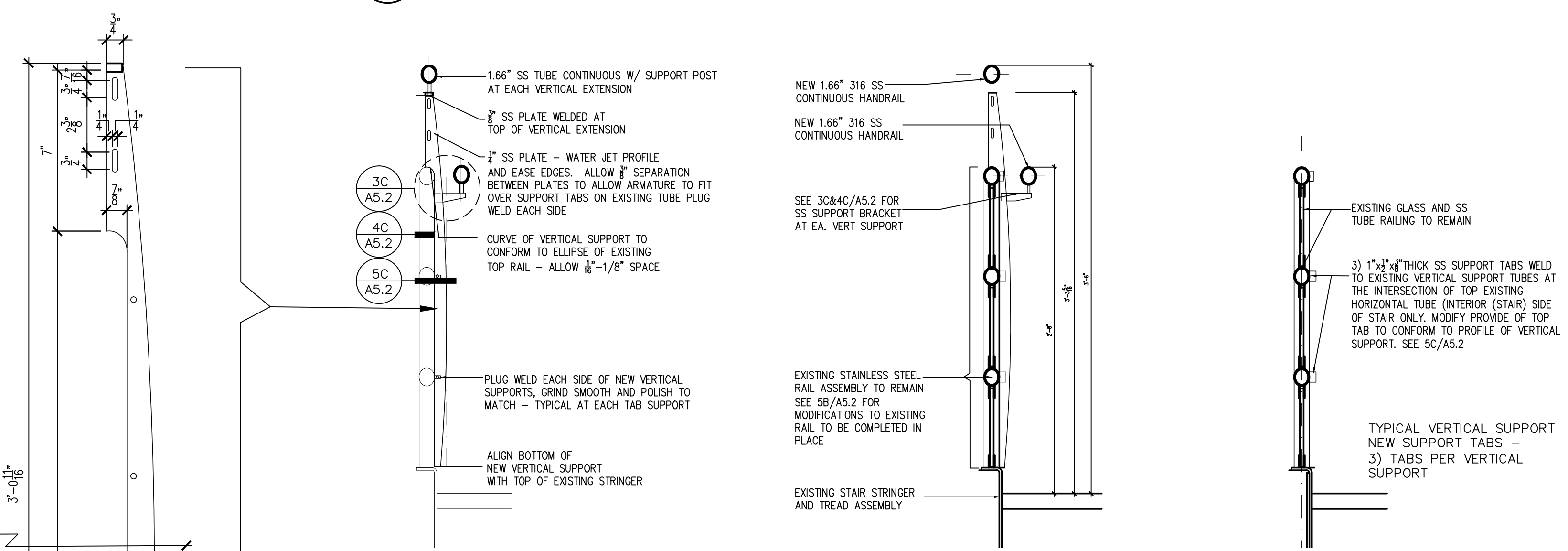


2D  
A5.2

PERFORATED METAL PANEL DETAIL

$\frac{3}{8}"=1'-0"$

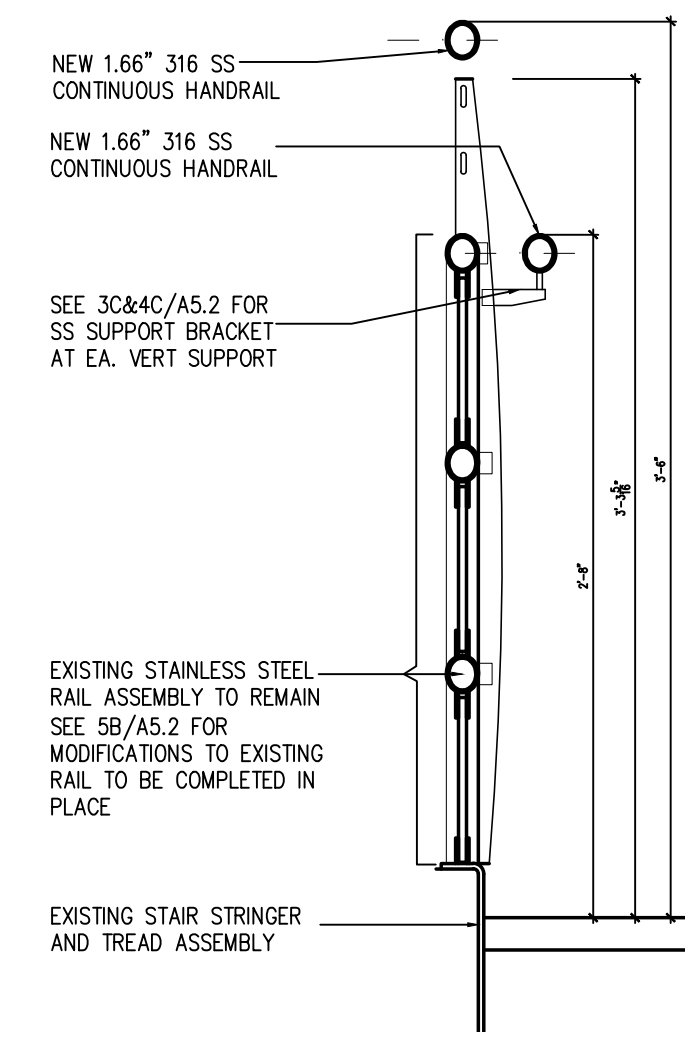
THIS DETAIL DESCRIBES THE PERFORATED METAL INFIL PANELS USED TO INFIL THE ALUMINUM STOREFRONT SYSTEM AND ALUMINUM DOOR IN LIEU OF TRADITIONAL GLAZING. THE PURPOSE OF THIS FRAME IS TO FUNCTION AS A WINDSCREEN BUFFER FOR THE SOFFIT MOUNTED LOUVER



3B  
A5.2

HANDRAIL SUPPORT DETAIL

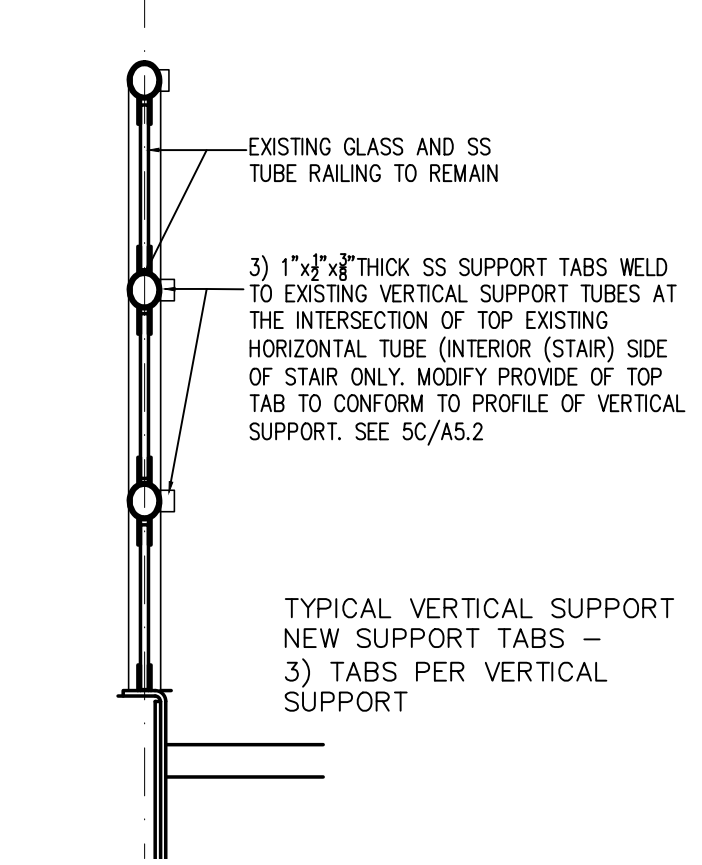
1 1/2" = 1'-0"



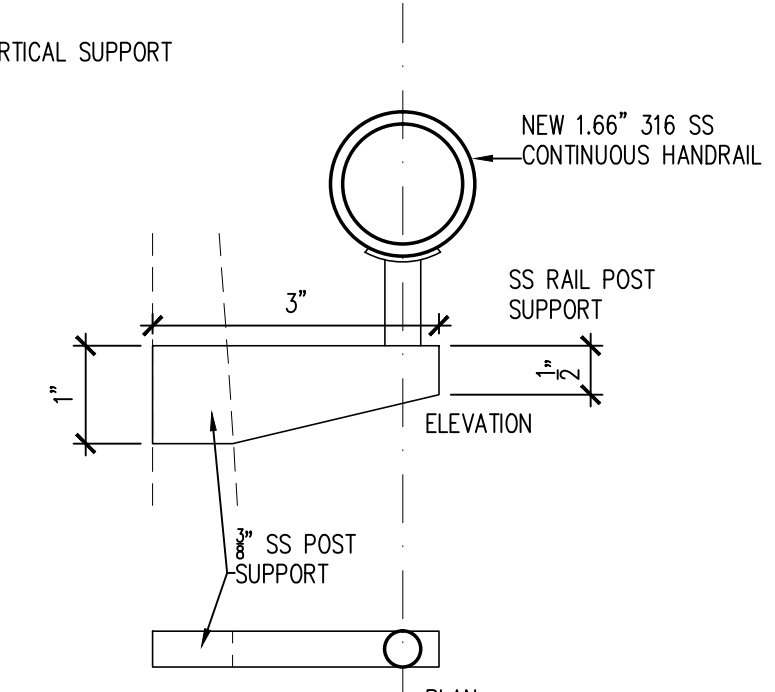
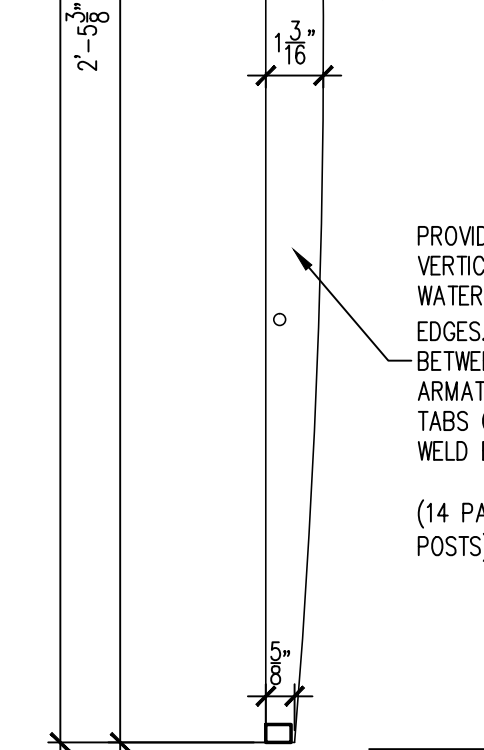
4B  
A5.2

HANDRAIL SUPPORT DETAIL

1 1/2" = 1'-0"



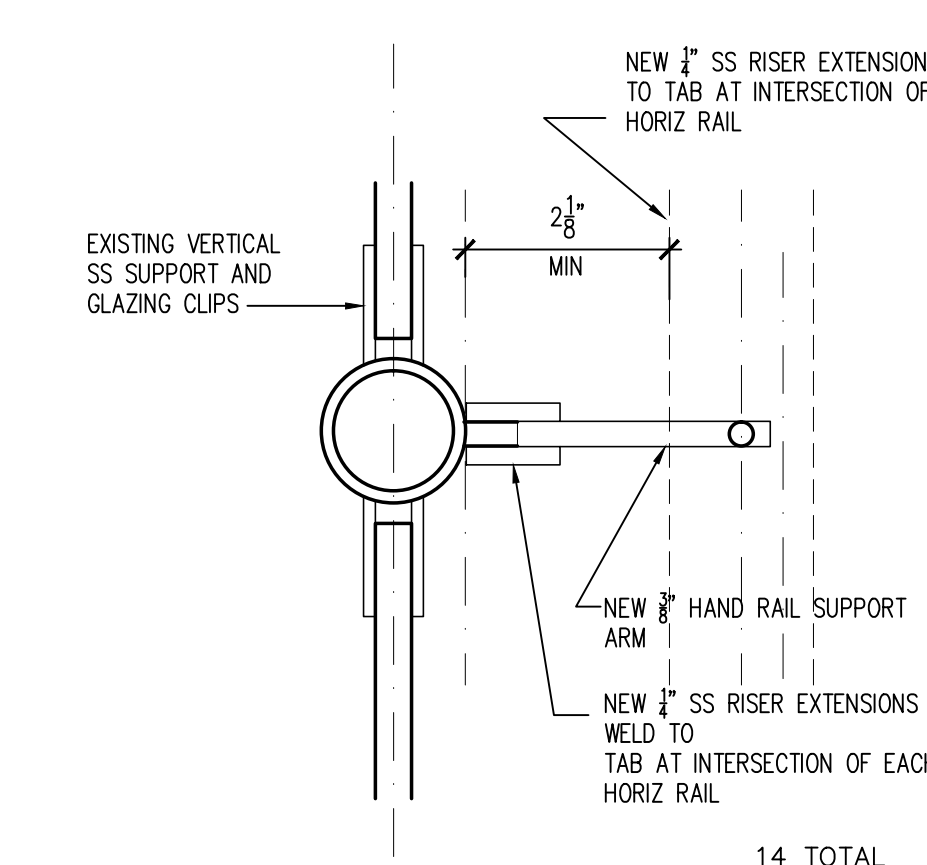
5B  
A5.2



3C  
A5.2

HANDRAIL SUPPORT DETAIL

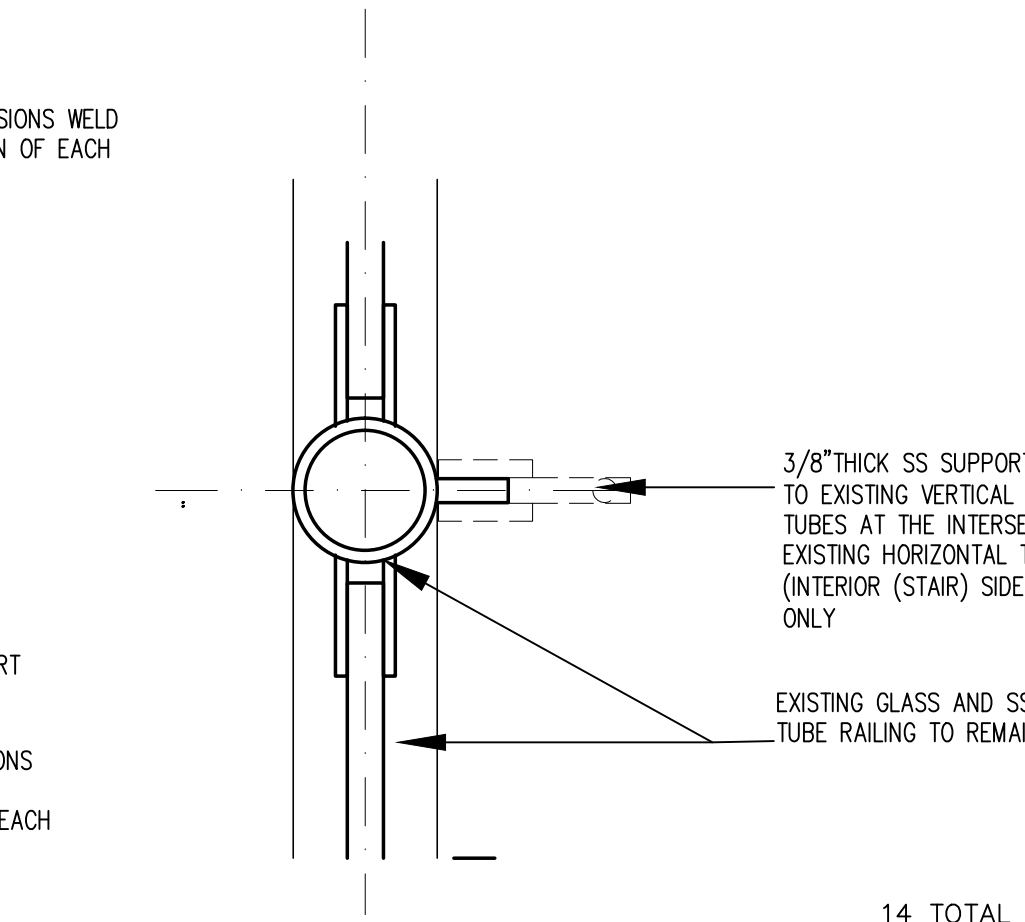
6"=1'-0"



4C  
A5.2

HANDRAIL SUPPORT DETAIL

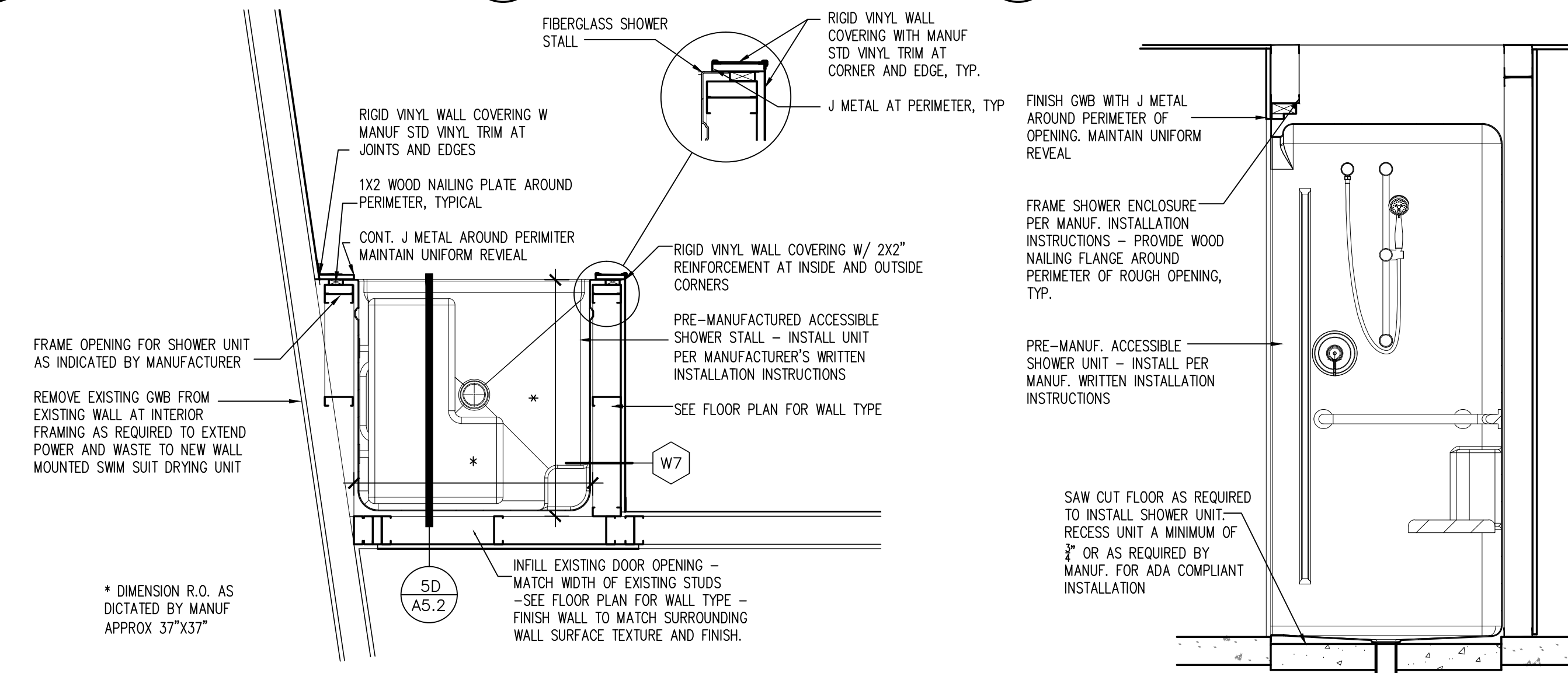
6"=1'-0"



5C  
A5.2

HANDRAILS SUPPORT DETAIL

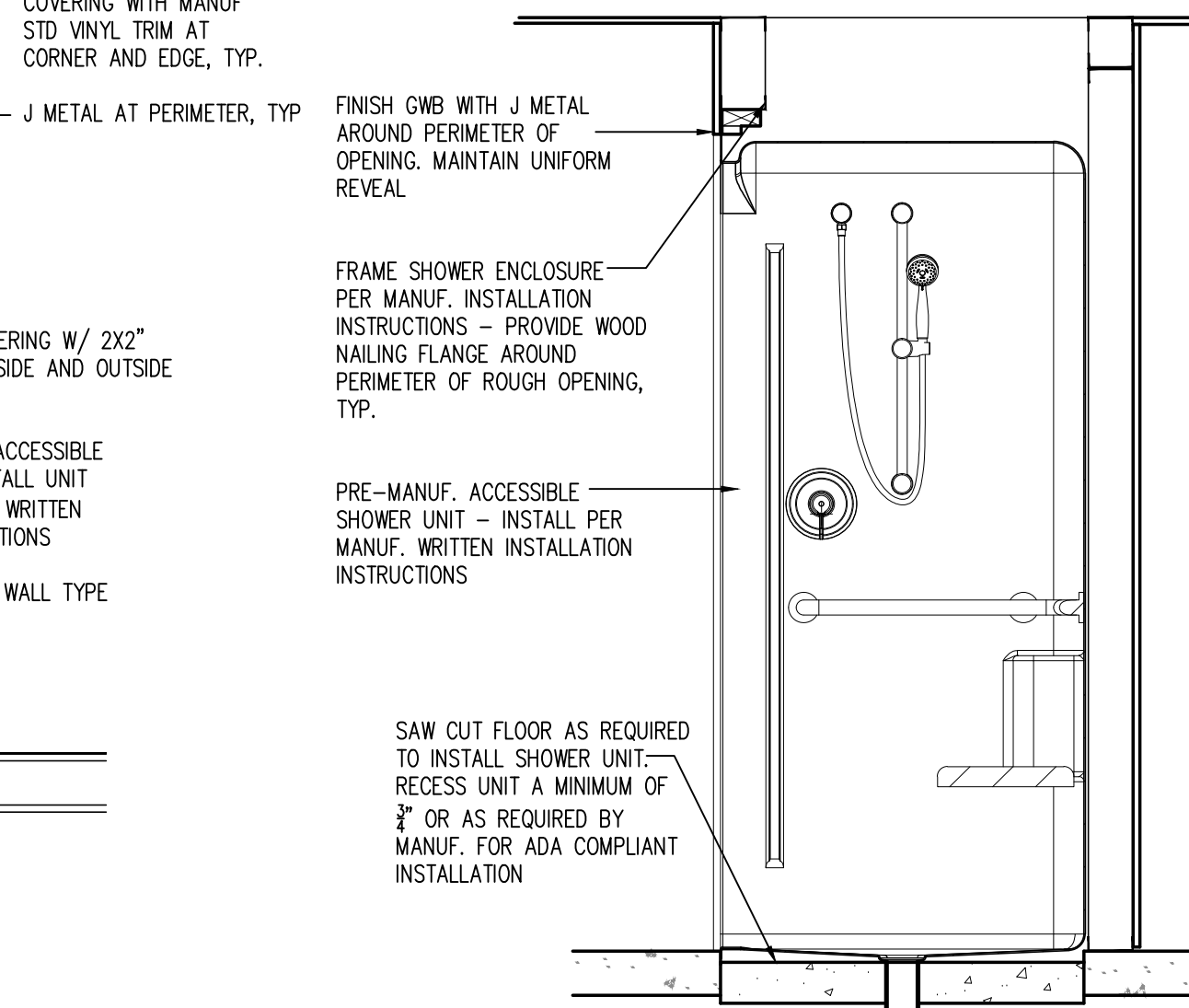
6"=1'-0"



4D  
A5.2

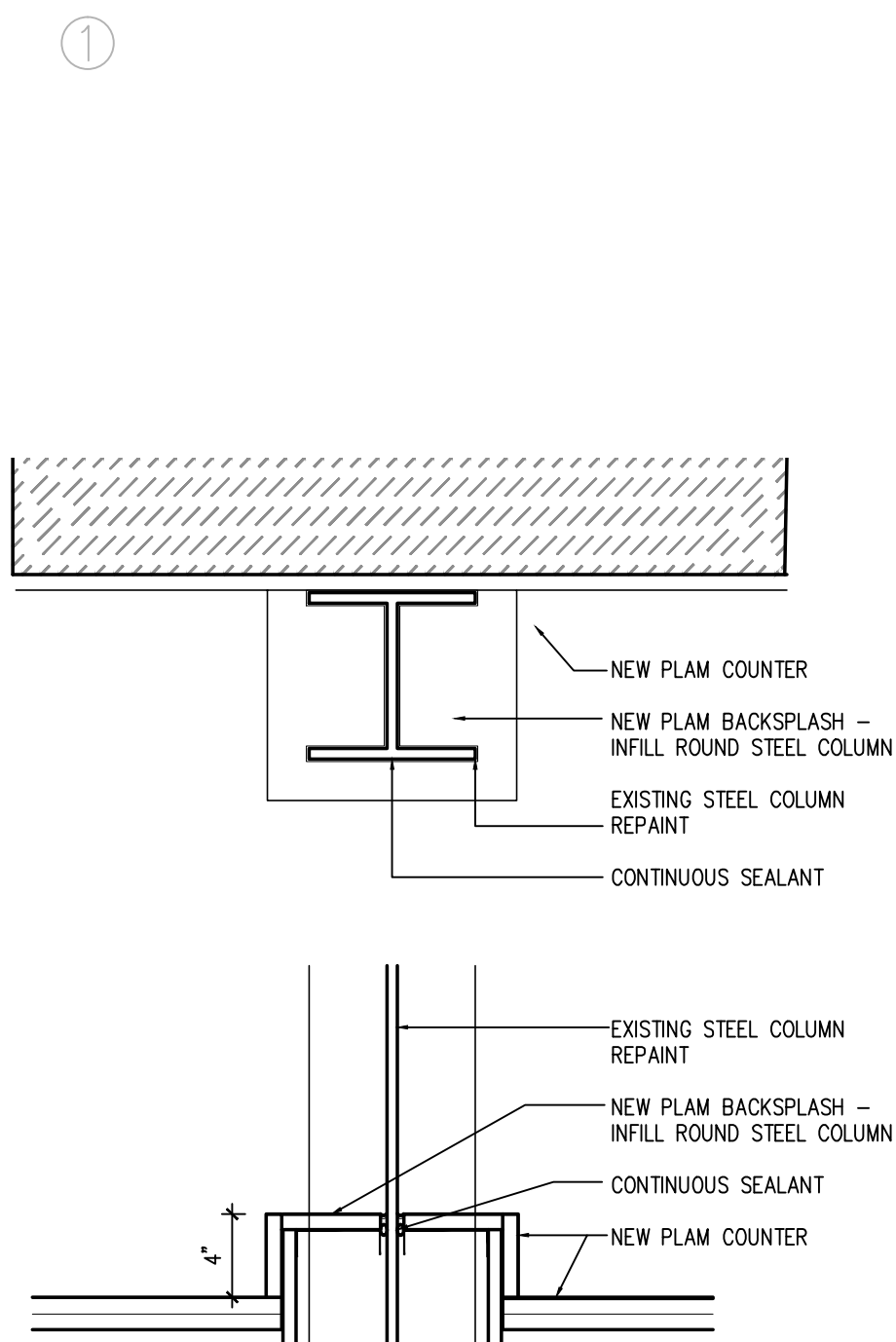
SHOWER DETAIL

3/4"=1'-0"

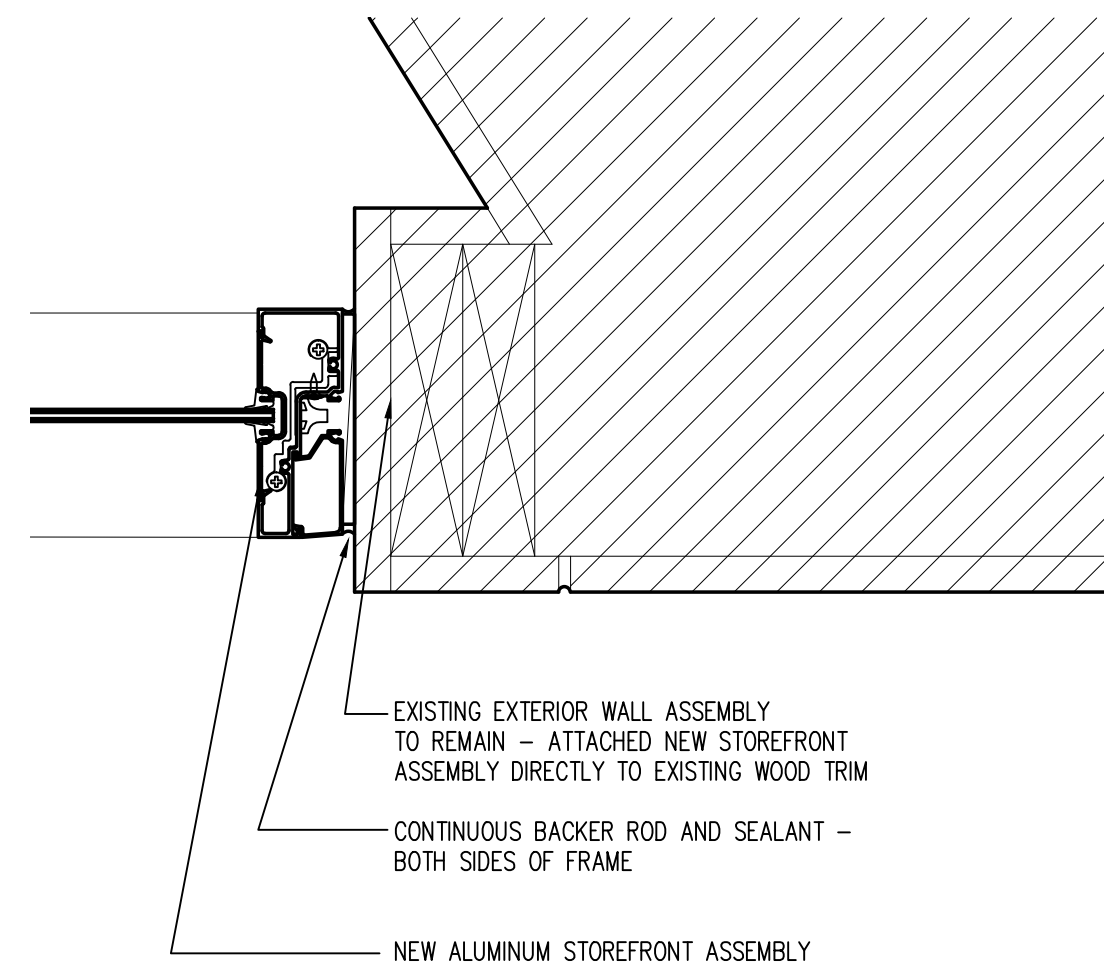


SECTION THRU SHOWER

HALF SIZE CONTRACT DOCUMENT 17" x 22"  
FULL SIZE CONTRACT DOCUMENT 30" x 42"



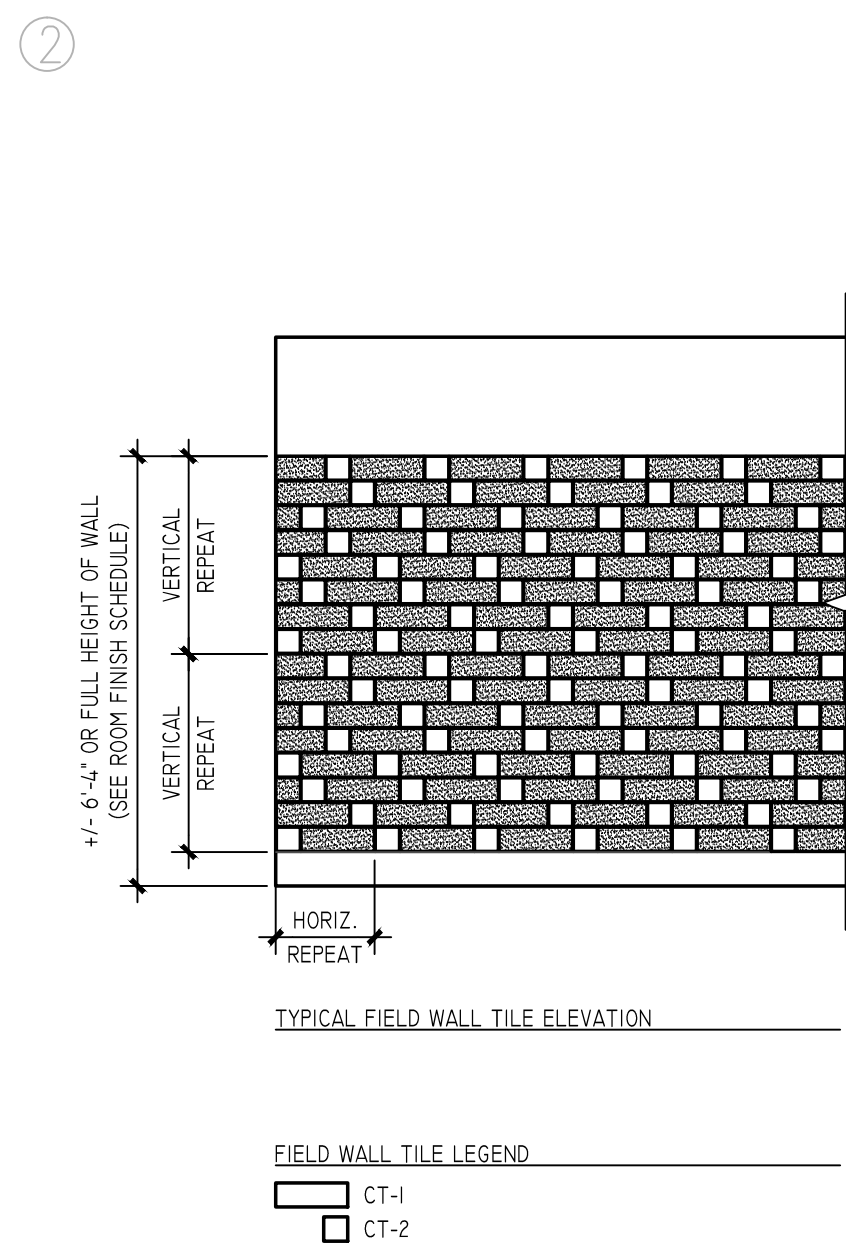
1A  
A5.3  
1 1/2" = 1'-0"



1B  
A5.3  
3" = 1'-0"

1C  
A5.3  
NOT USED

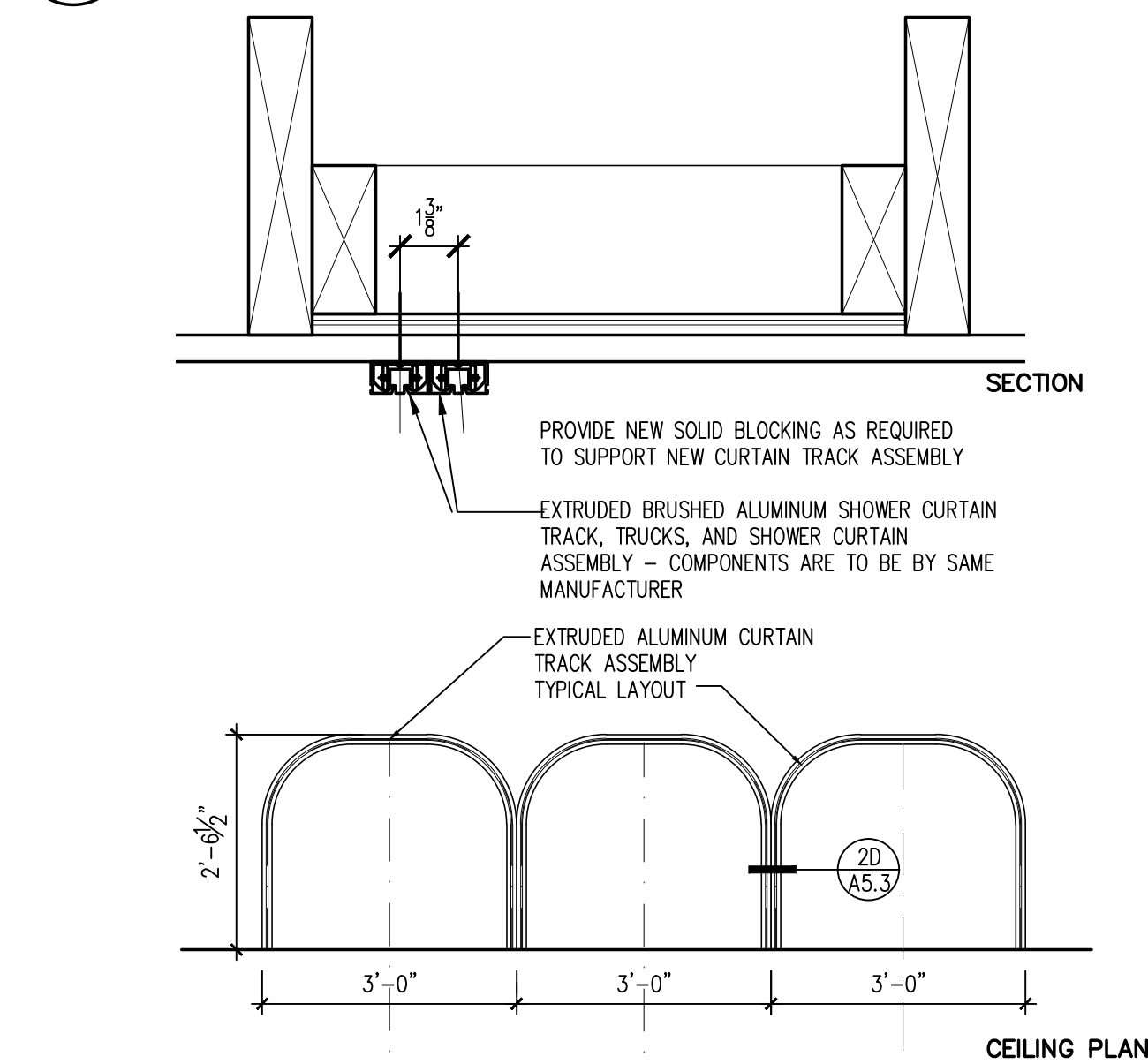
1D  
A5.3  
NOT USED



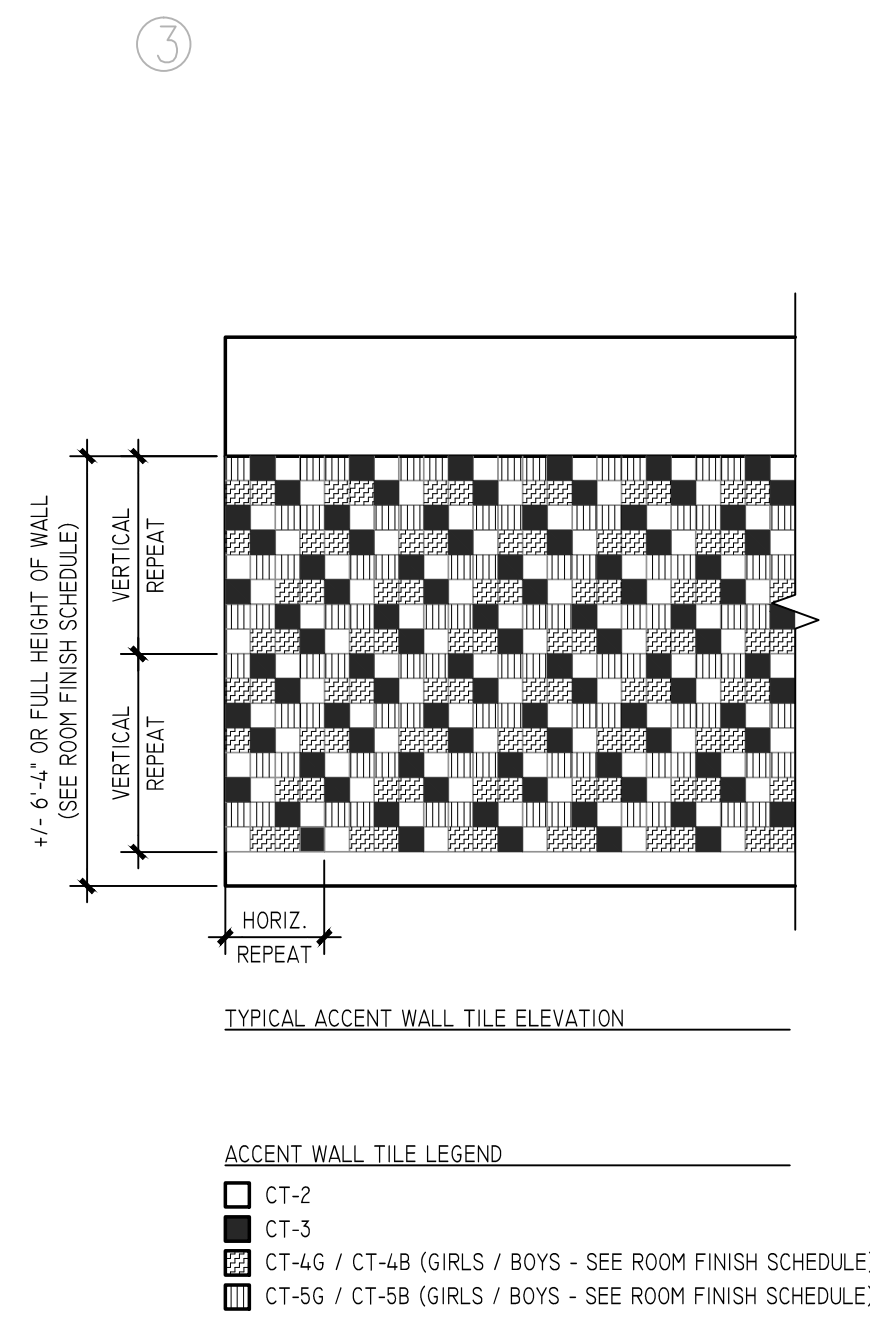
2A  
A5.3  
NTS  
TYPICAL CERAMIC TILE PATTERNS

2B  
A5.3  
NOT USED

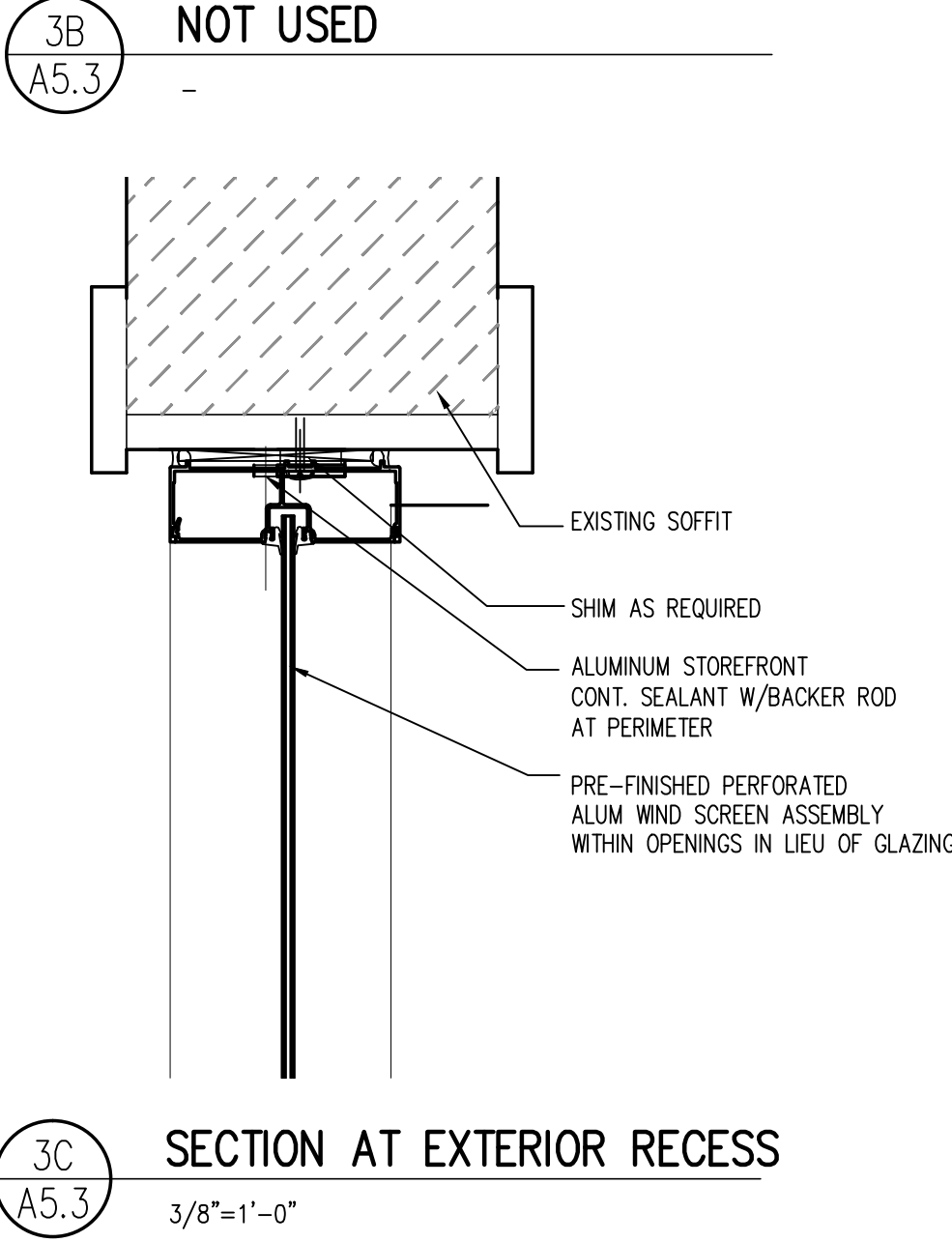
2B  
A5.3  
NOT USED



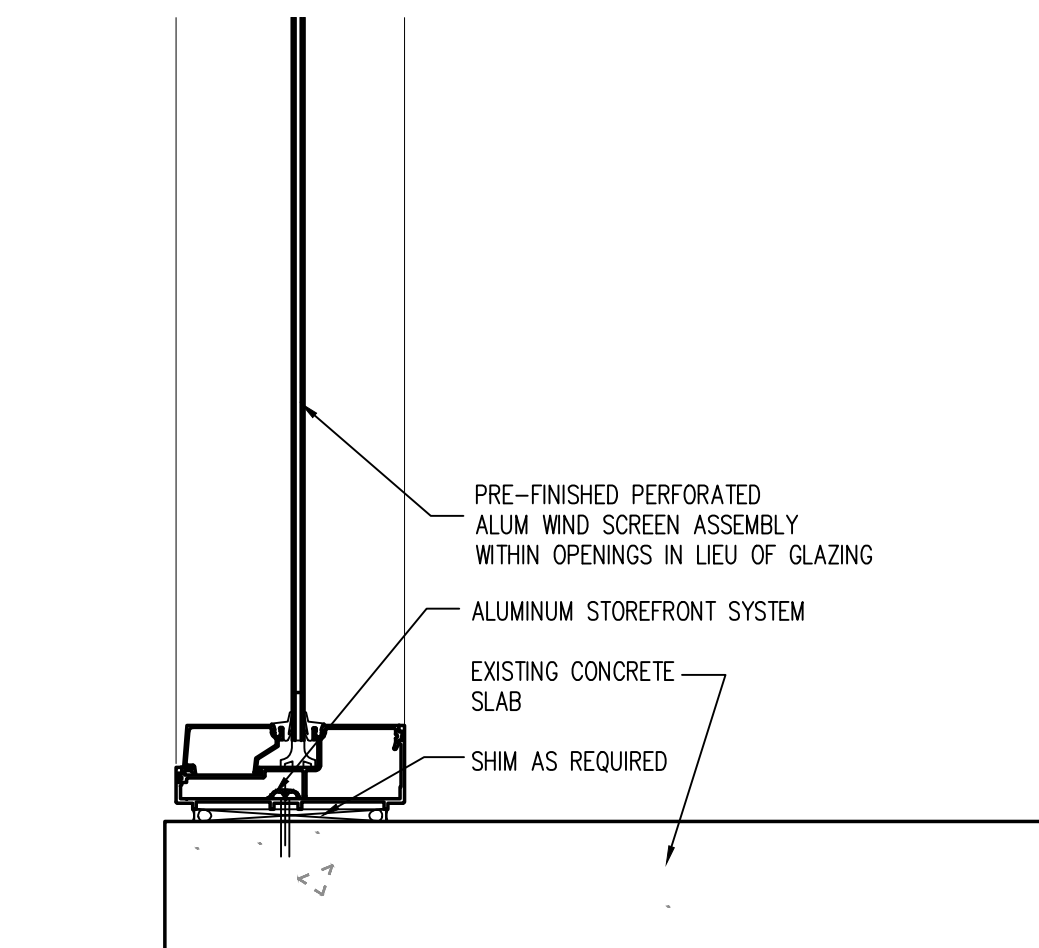
2D  
A5.3  
VARIES  
CURTAIN TRACK DETAIL



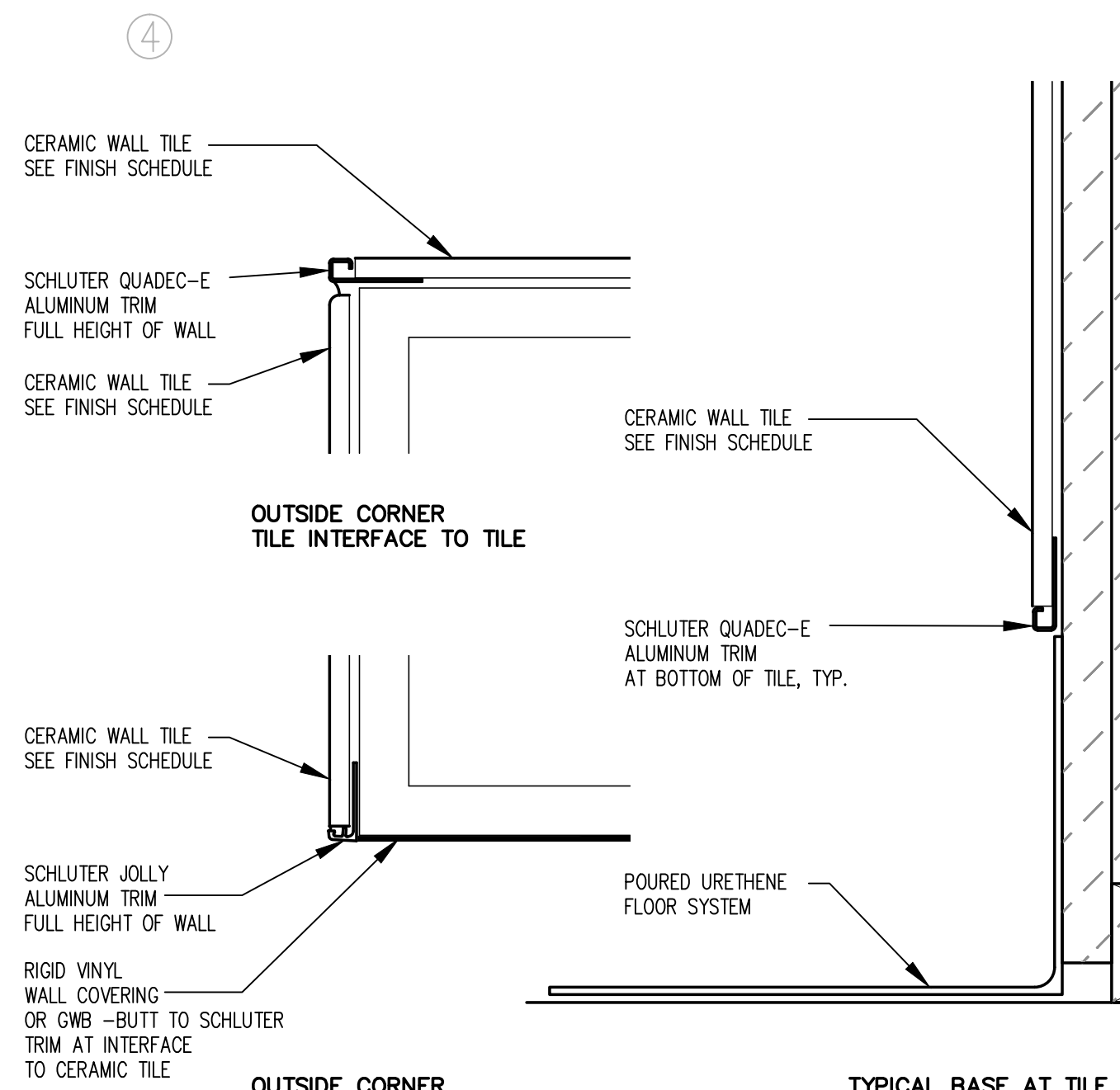
3A  
A5.3  
TYPICAL ACCENT WALL TILE ELEVATION



3C  
A5.3  
3/8" = 1'-0"  
SECTION AT EXTERIOR RECESS



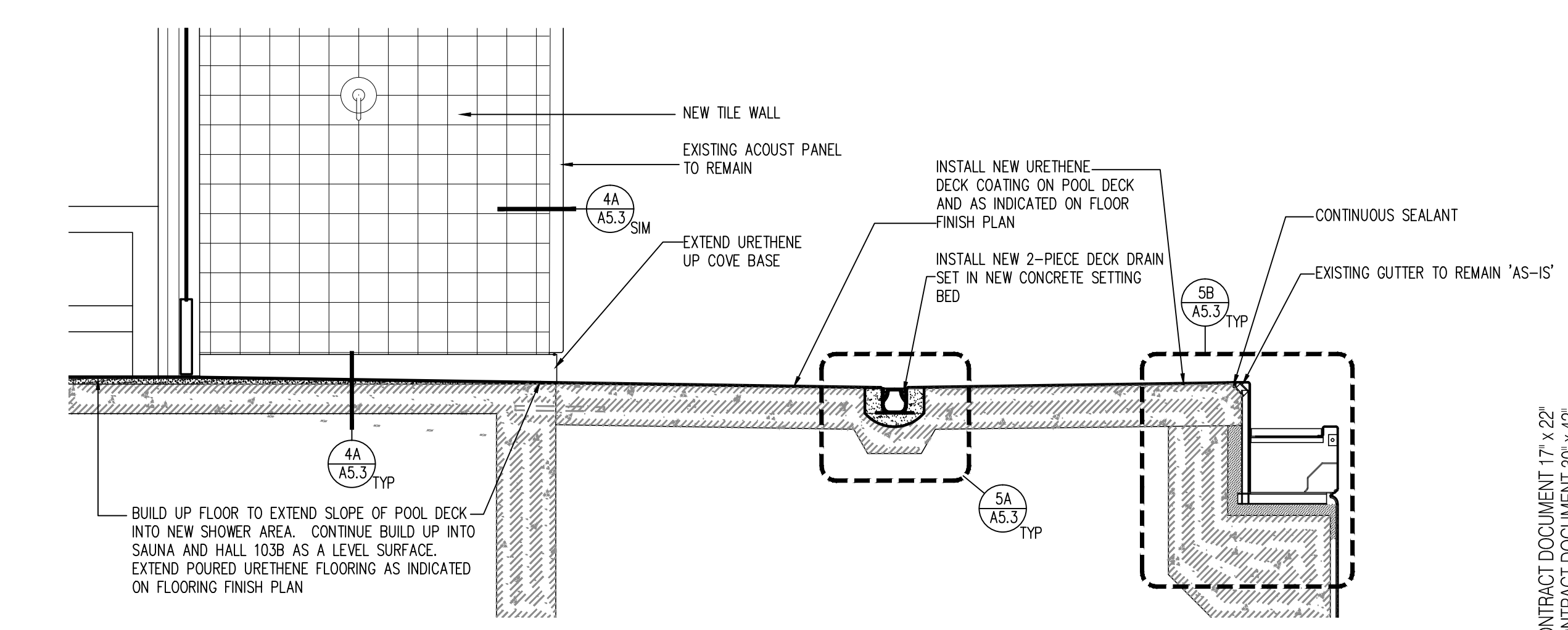
3D  
A5.3  
3/8" = 1'-0"  
SECTION AT EXTERIOR RECESS



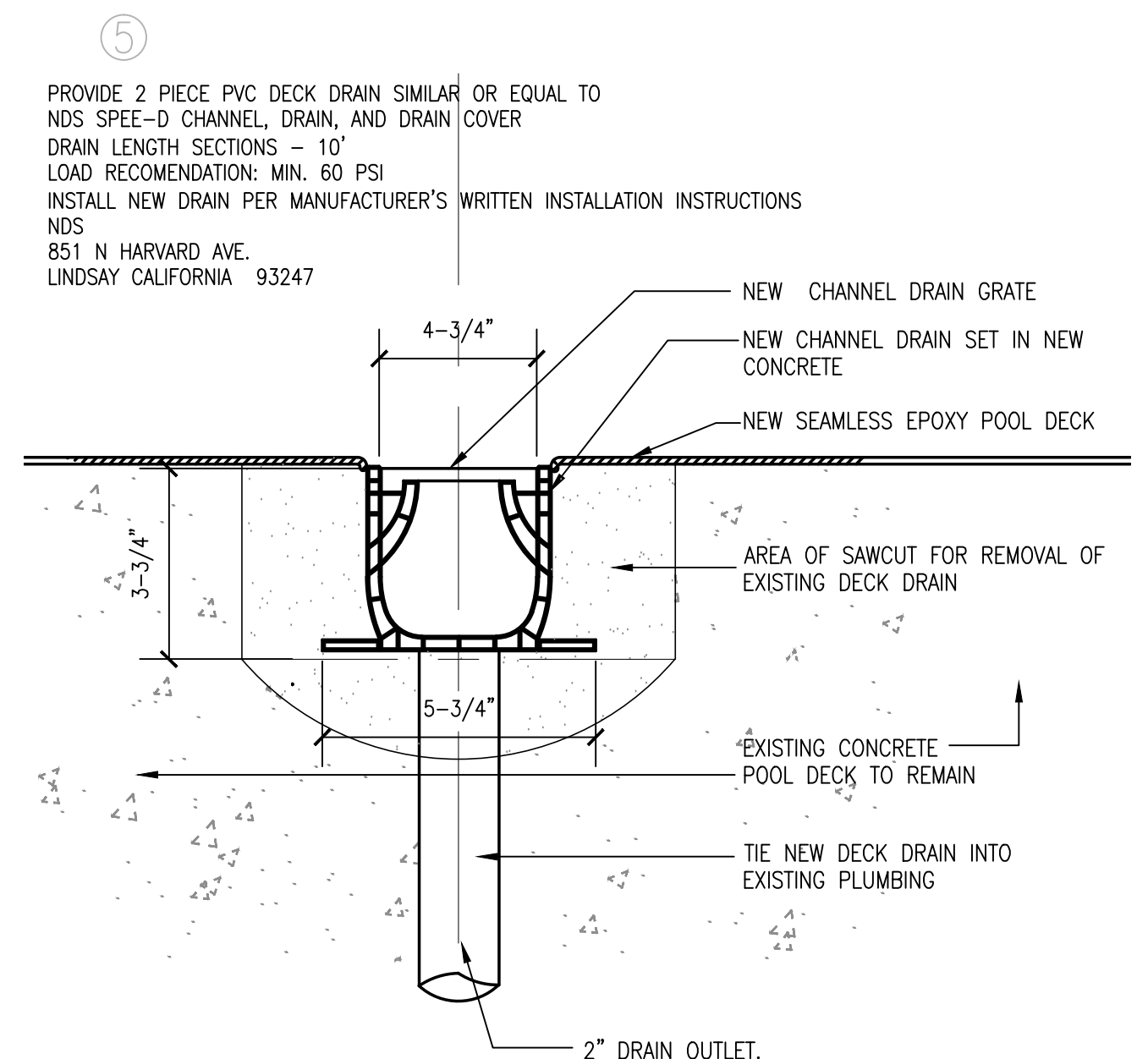
4A  
A5.3  
HALF SCALE  
TILE TRANSITION DETAILS

4B  
A5.3  
NOT USED

4C  
A5.3  
3/4" = 1'-0"  
SECTION THRU DECK - DEMOLITION

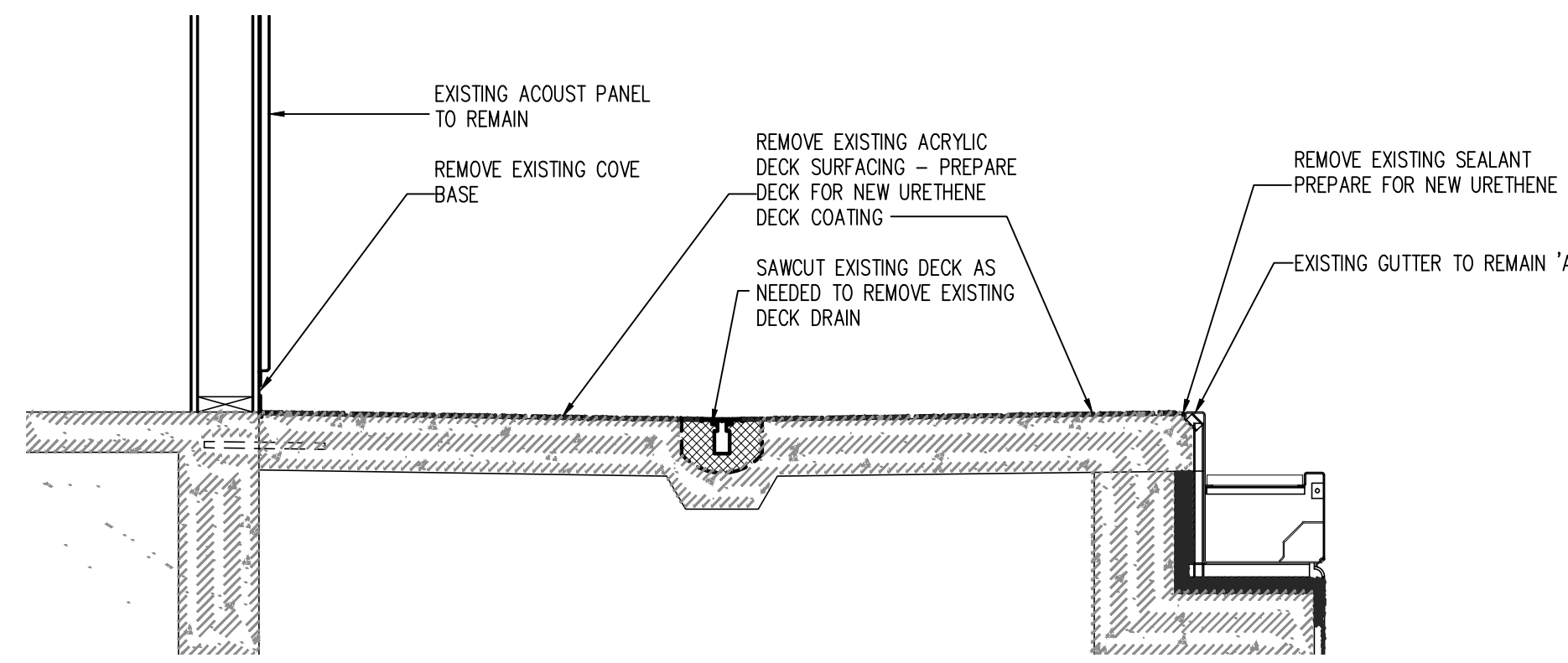


4D  
A5.3  
3/4" = 1'-0"  
DECK DETAIL - NEW CONSTRUCTION



5A  
A5.3  
3" = 1'-0"  
GUTTER DETAIL

5B  
A5.3  
1 1/2" = 1'-0"  
GUTTER DETAIL



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**CITY OF UNALASKA - AQUATICS CENTER IMPROVEMENTS**  
55 EAST BROADWAY  
UNALASKA, ALASKA

|                |                  |
|----------------|------------------|
| Drawn<br>GW    | Date<br>11/15/15 |
| Checked<br>XXX | Job No.<br>1502  |
| Revision       | Date             |
|                |                  |
|                |                  |
|                |                  |

Sheet Contents  
DETAILS

Category

Sheet

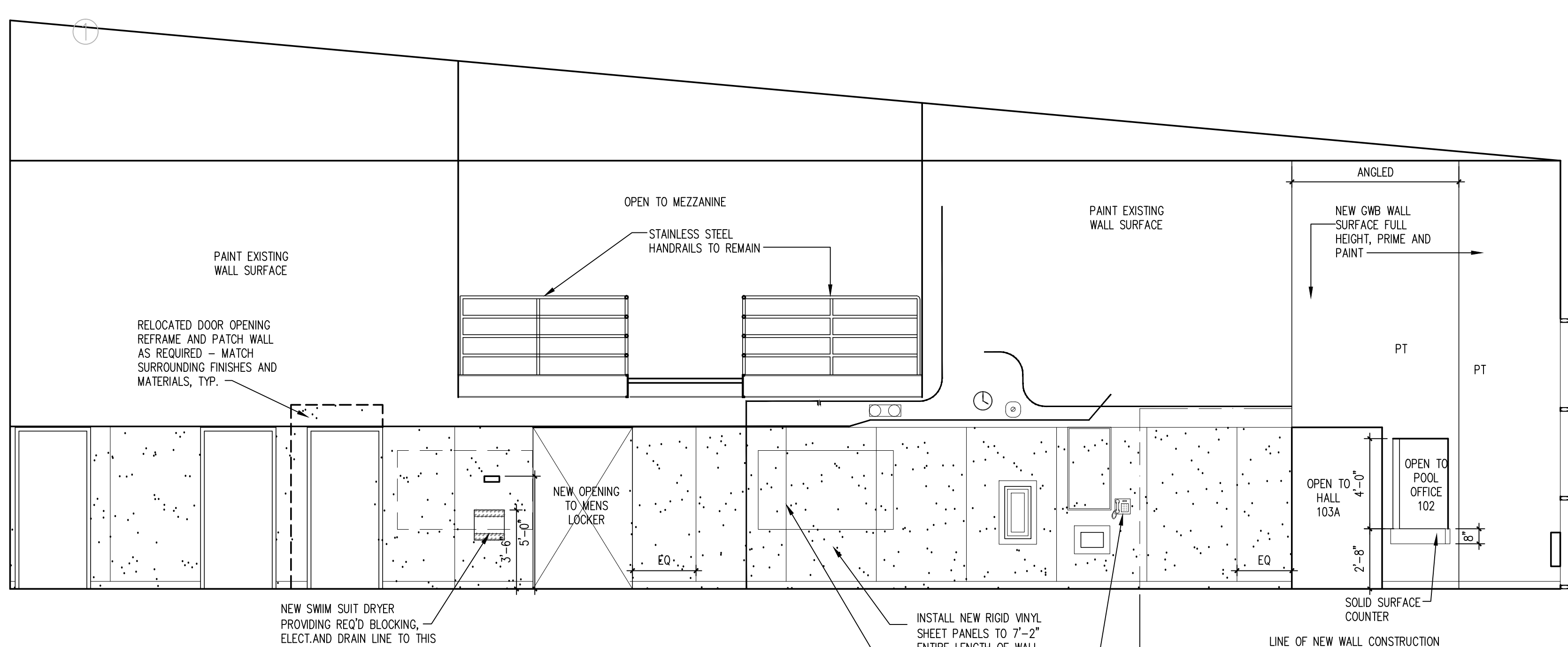
**A5**

**3**

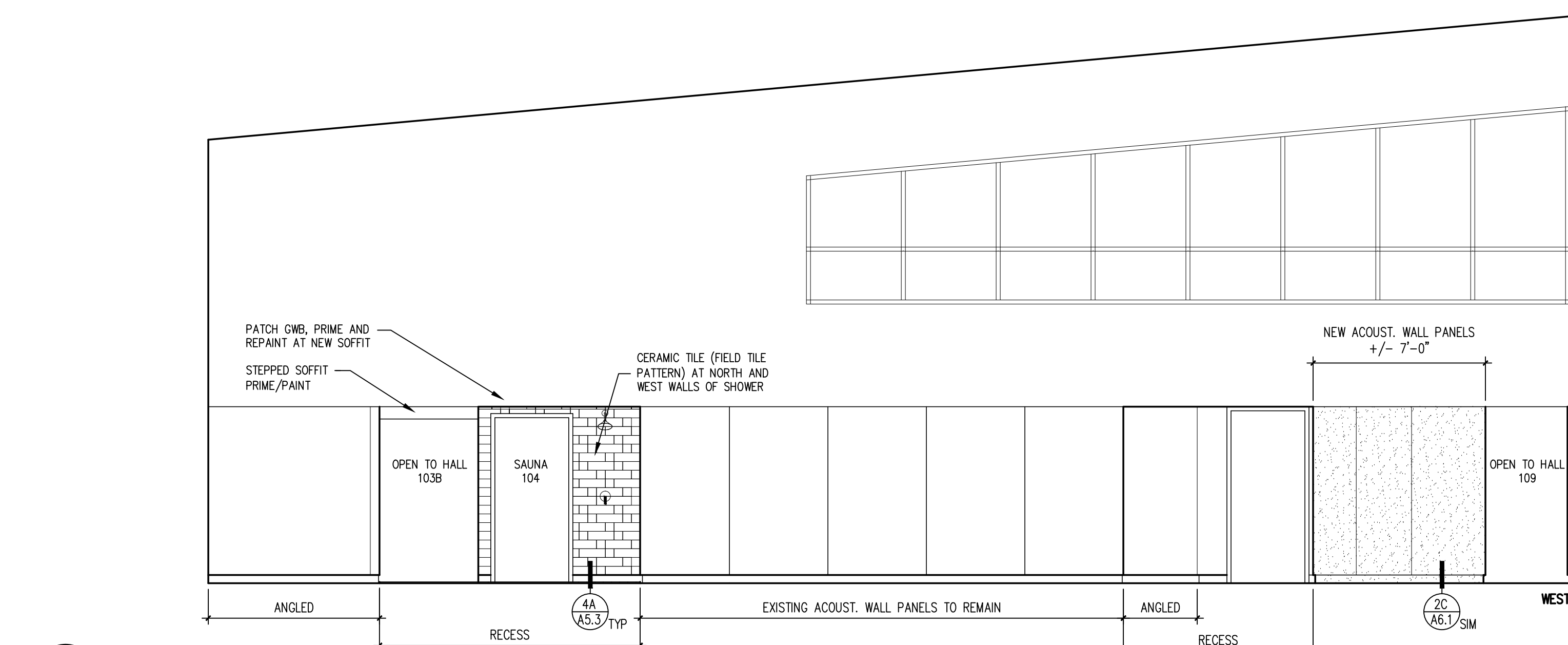
HALF SIZE CONTRACT DOCUMENT 17" x 22"  
FULL SIZE CONTRACT DOCUMENT 30" x 42"



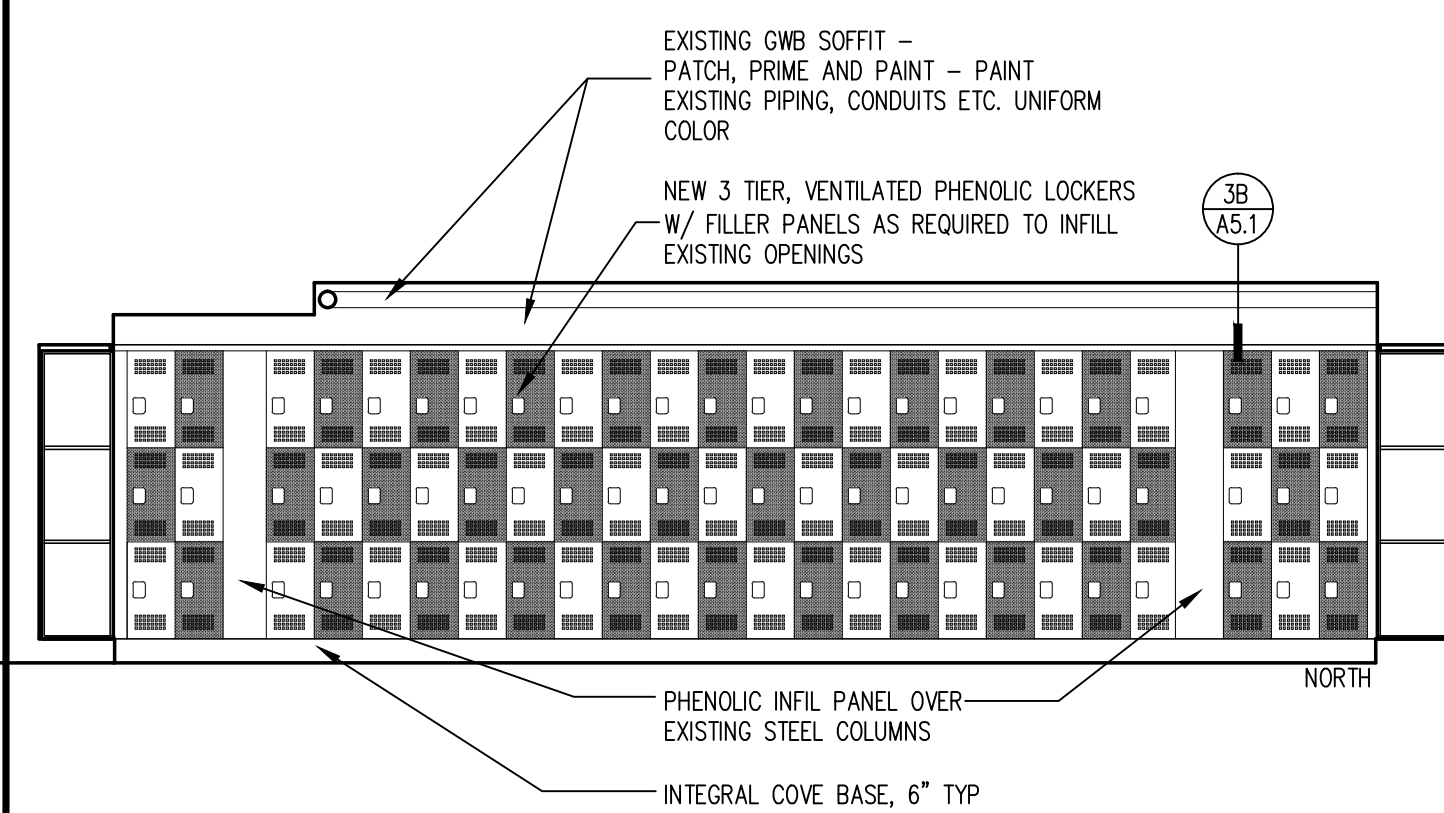
HALF SIZE CONTRACT DOCUMENT 17 x 22"  
FULL SIZE CONTRACT DOCUMENT 30 x 42"



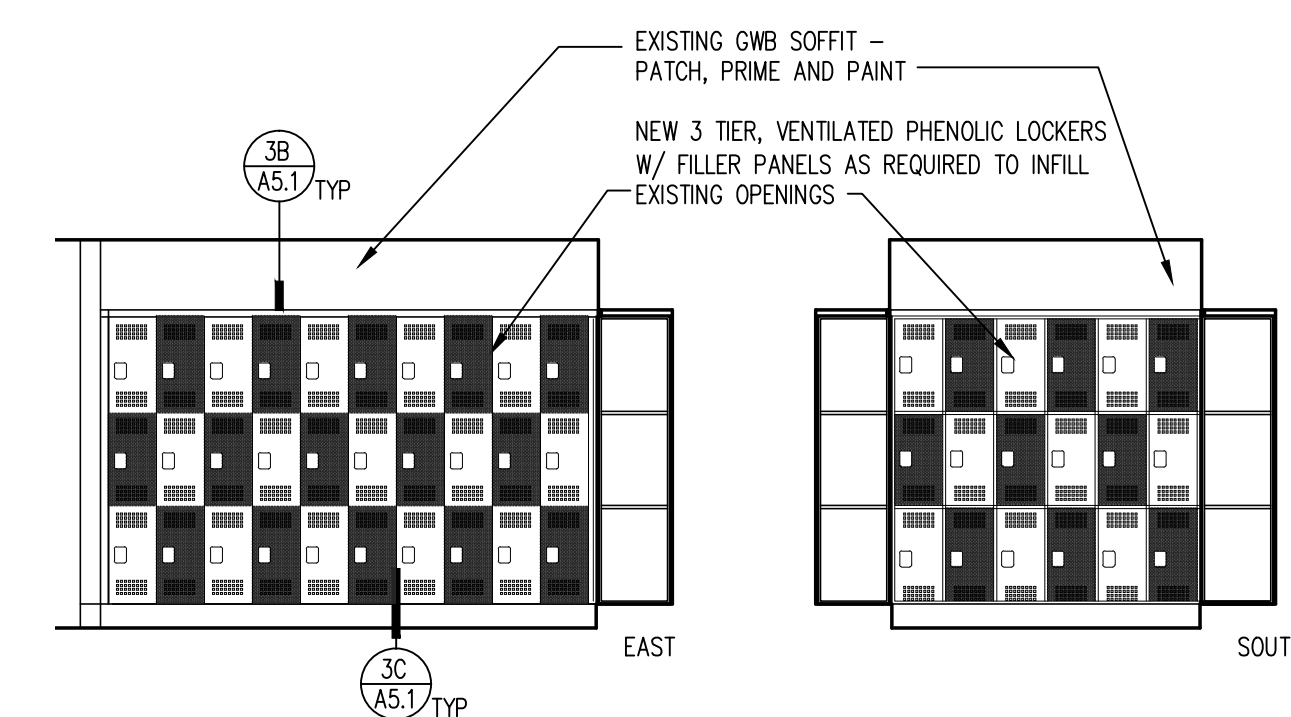
**1A**  
A6.0  
**INTERIOR ELEVATION - LOBBY 101**  
1/4"=1'-0"



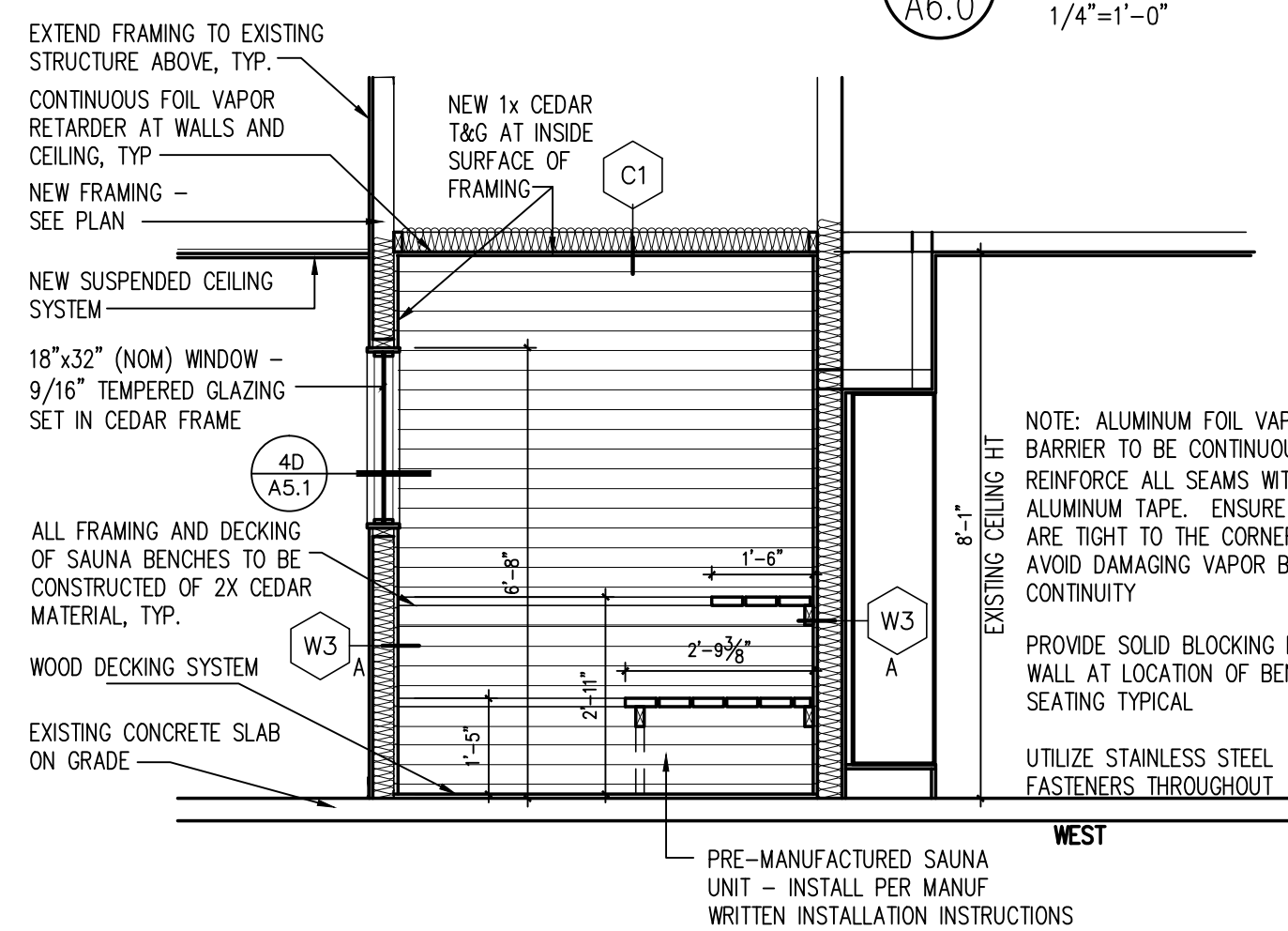
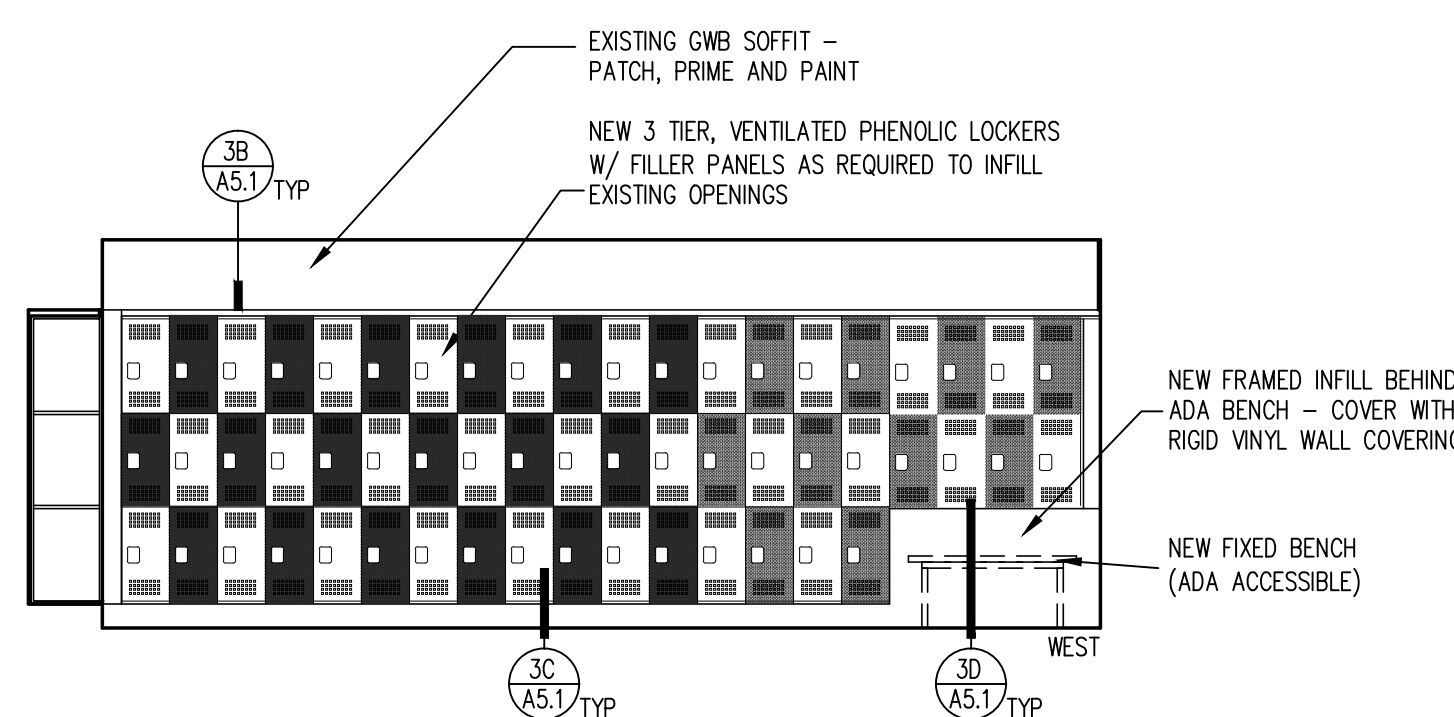
**1B**  
A6.0  
**INTERIOR ELEVATION - NATATORIUM 122**  
1/4"=1'-0"



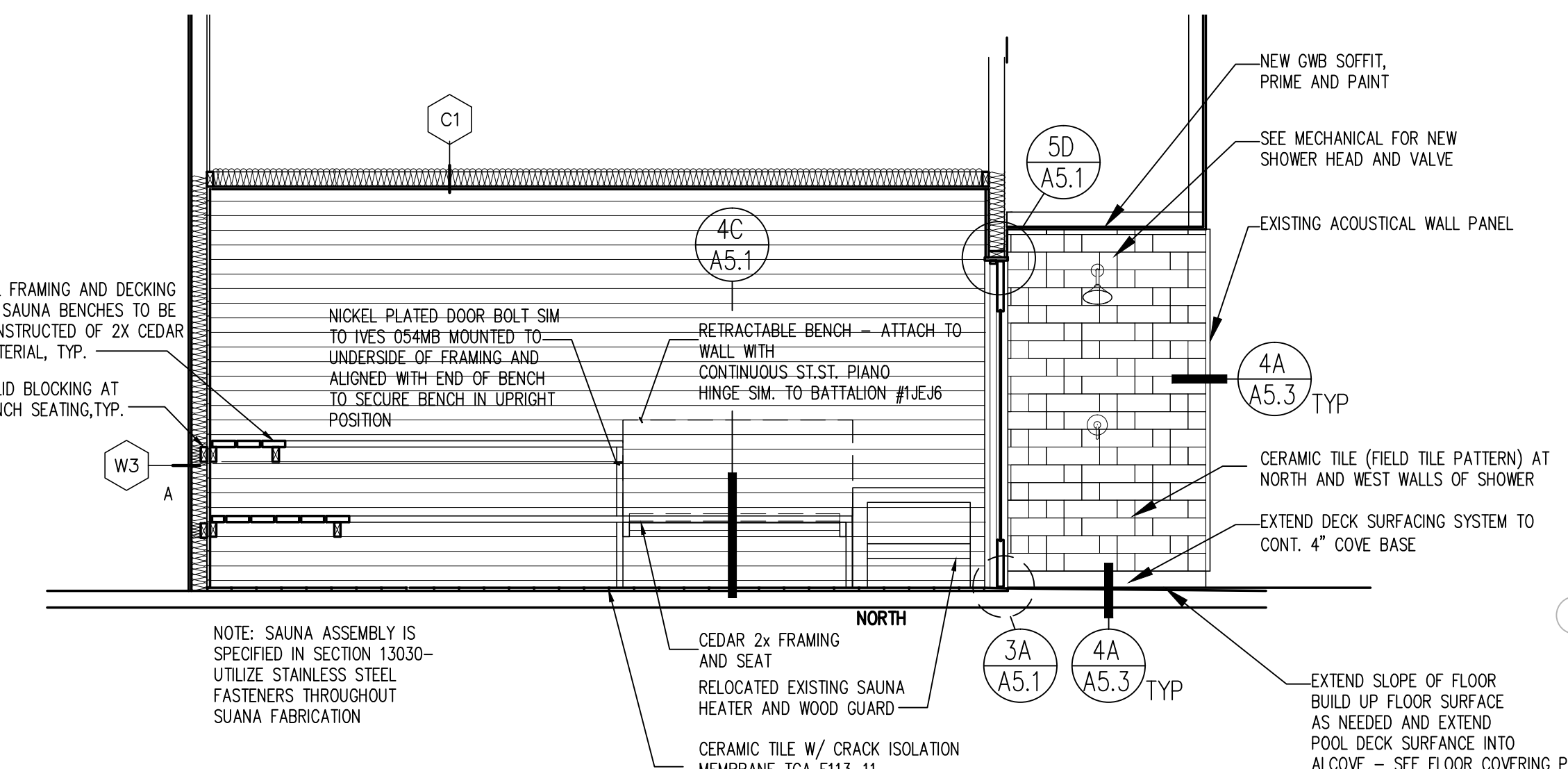
**1C**  
A6.0  
**INTERIOR ELEVATION - WOMENS LOCKER 114**  
1/4"=1'-0"



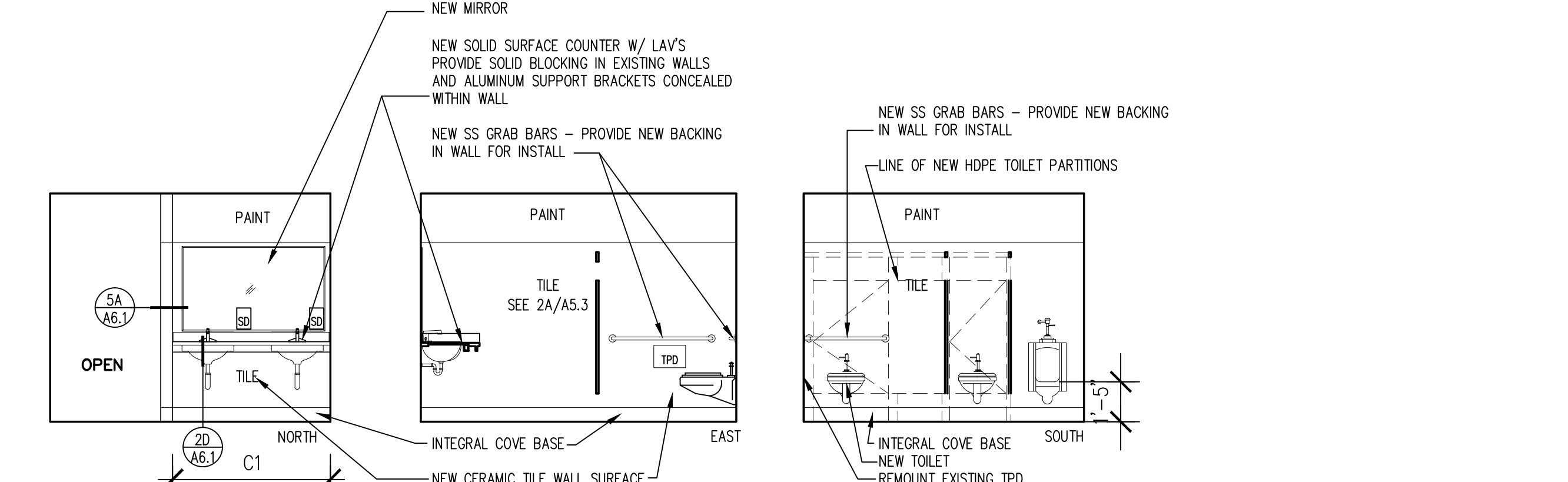
**1D**  
A6.0  
**INTERIOR ELEVATION - MENS LOCKER 106**  
3"=1'-0"



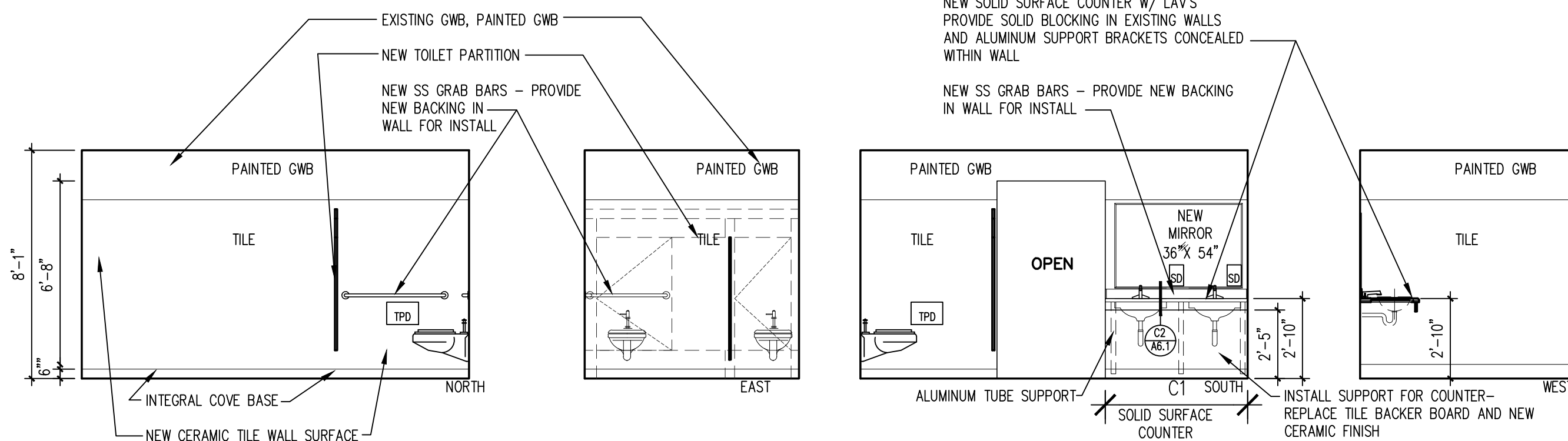
**4B**  
A6.0  
**INTERIOR ELEVATION - SAUNA 103C**  
3/8"=1'-0"



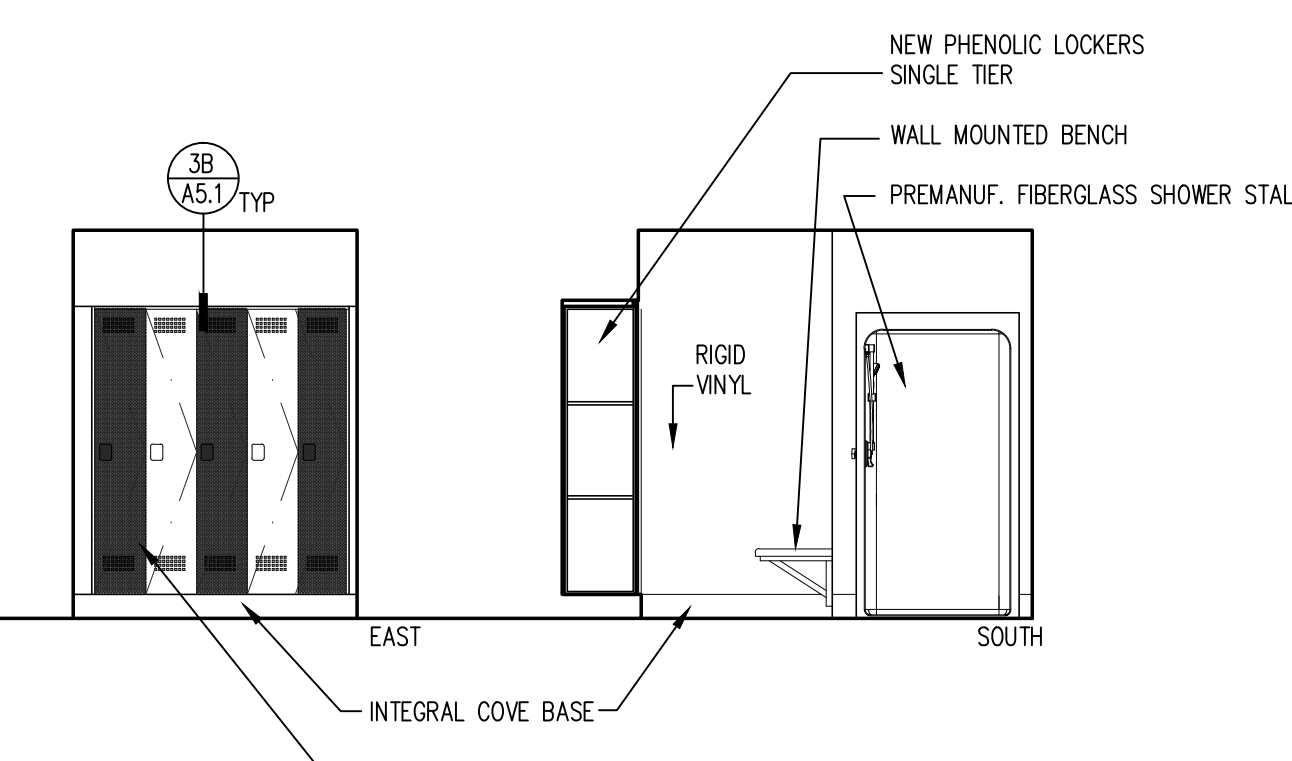
**5B**  
A6.0  
**INTERIOR ELEVATION - SAUNA 103C**  
3/8"=1'-0"



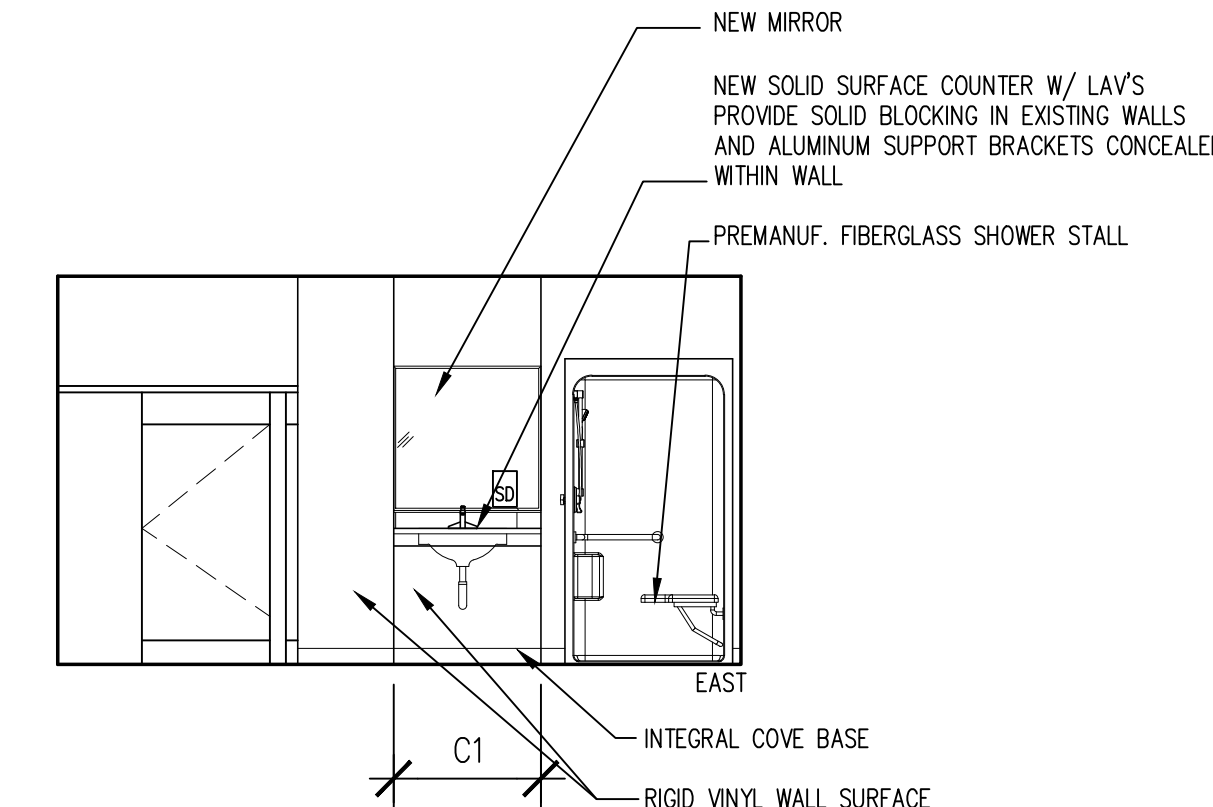
**3A**  
A6.0  
**INTERIOR ELEVATION - MENS TOILET 104**  
1/4"=1'-0"



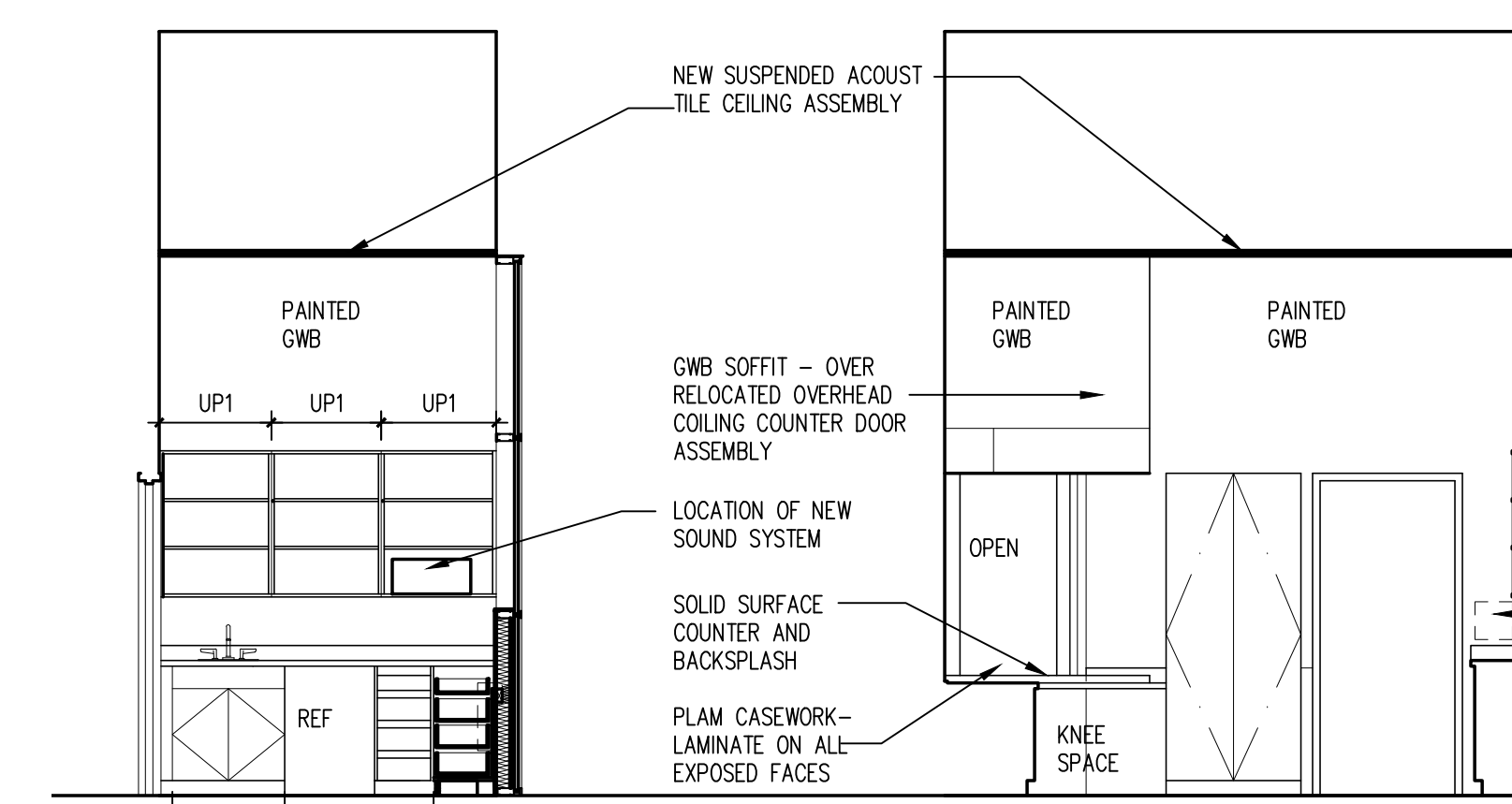
**4A**  
A6.0  
**INTERIOR ELEVATION - WOMENS TOILET 116**  
1/4"=1'-0"



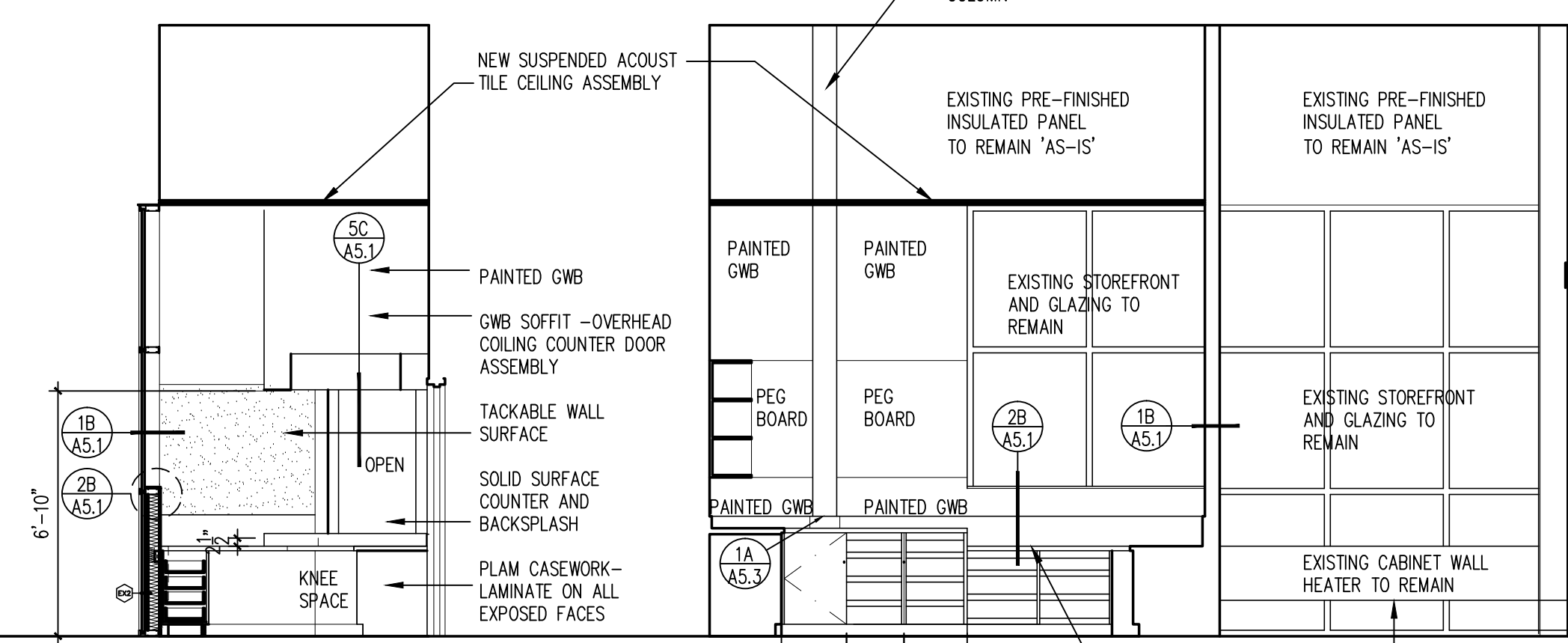
**4C**  
A6.0  
**STAFF 108**  
1/4"=1'-0"



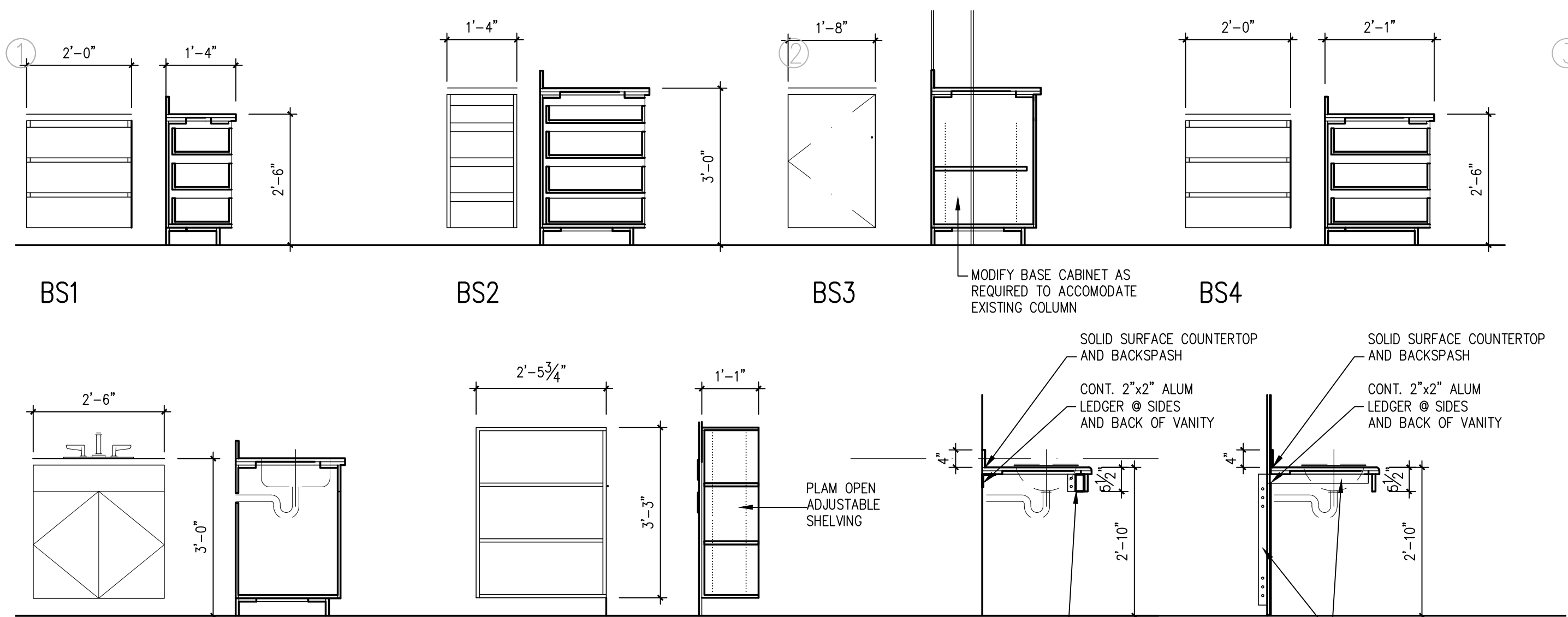
**5D**  
A6.0  
**FAMILY LOCKER ROOM 110**  
1/4"=1'-0"



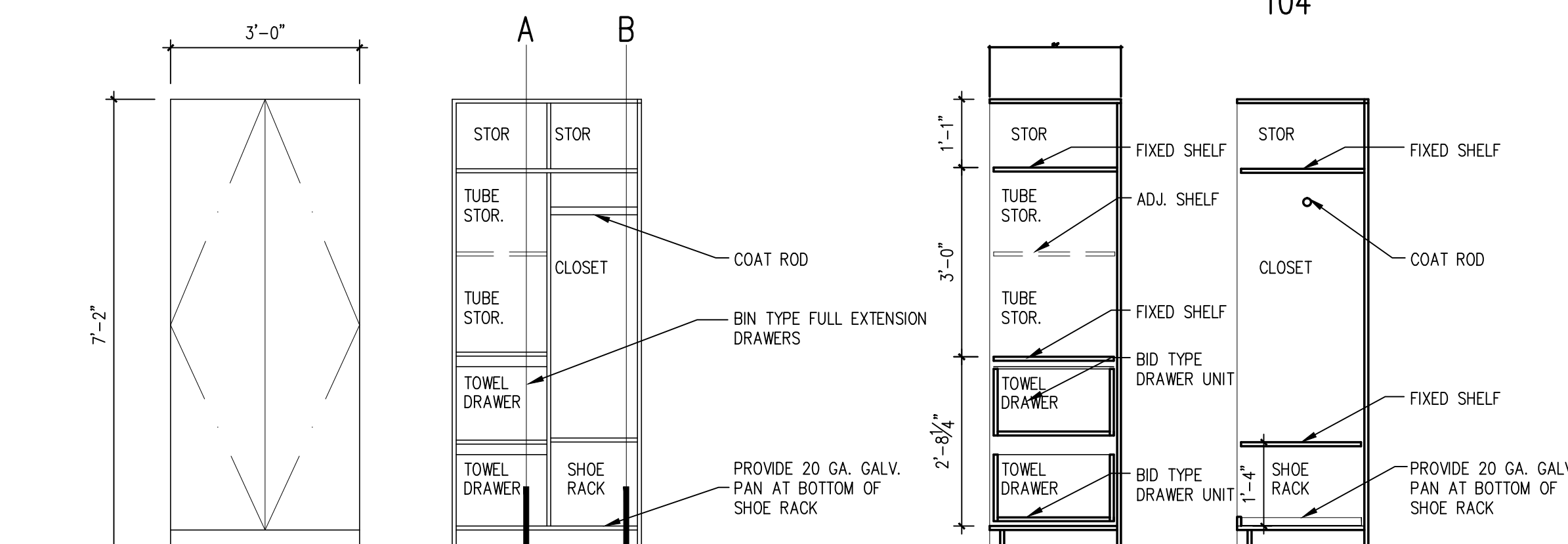
**3D**  
A6.0  
**INTERIOR ELEVATION - POOL OFFICE 102**  
3"=1'-0"



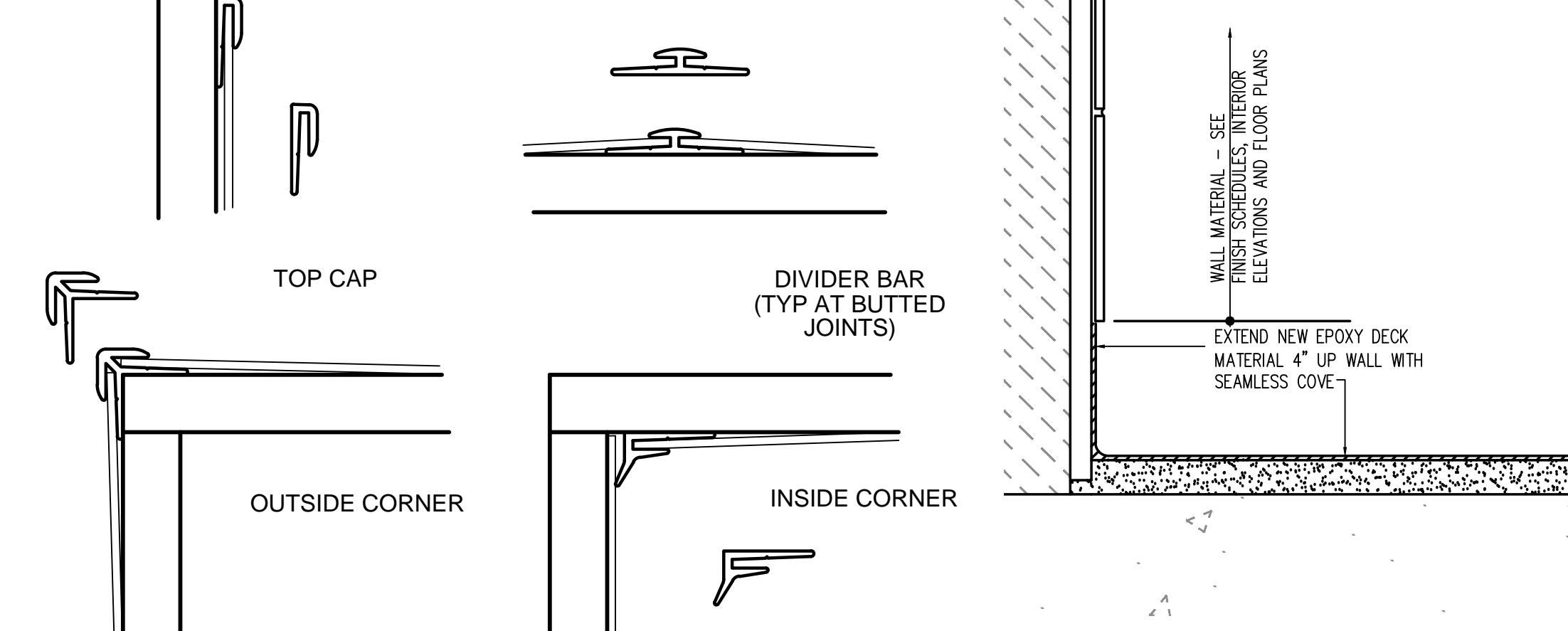
C



BS5  
CASEWORK SCHEDULE  
1/2" = 1'-0"

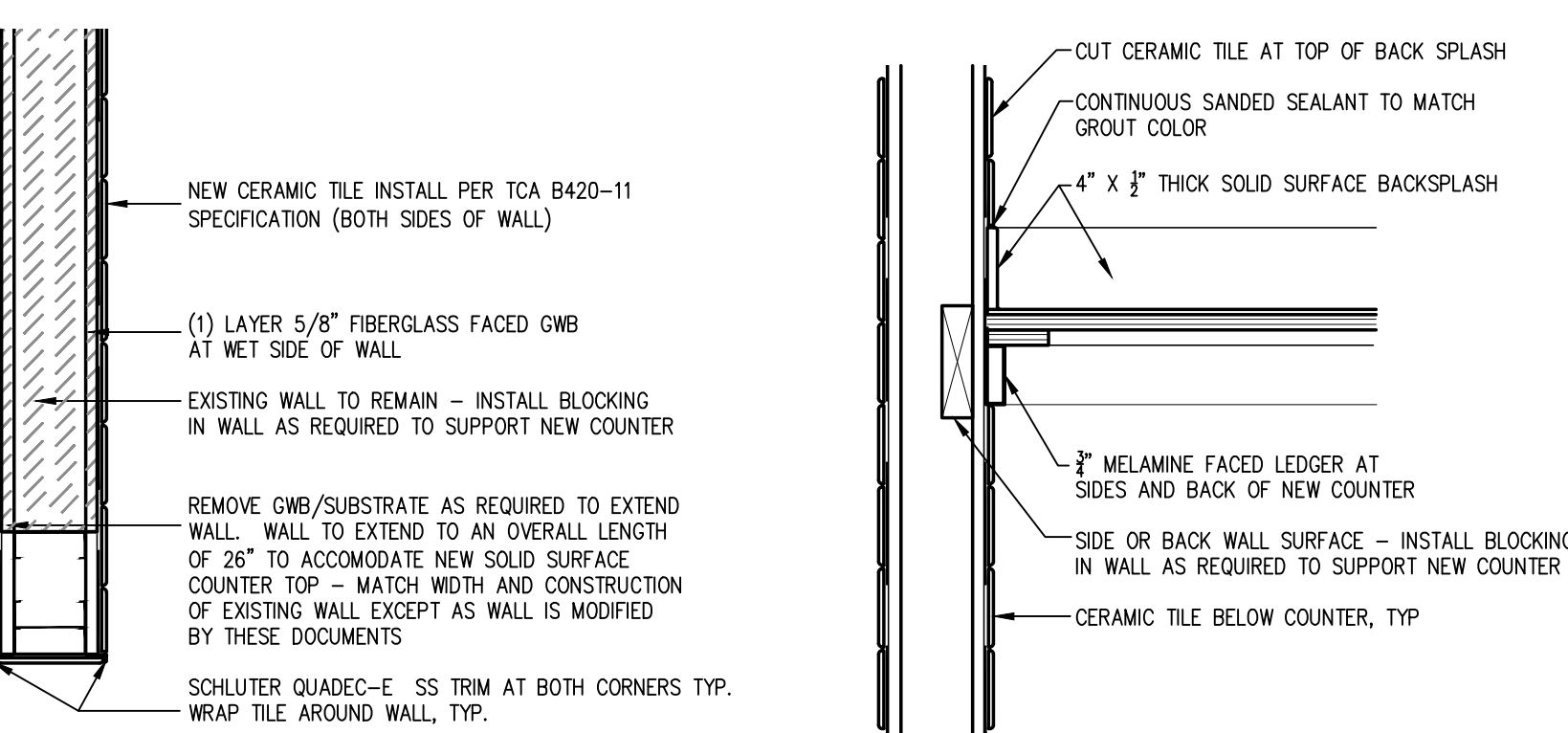


BS6  
WARDROBE SCHEDULE  
1/2" = 1'-0"



1C  
RIGID VINYL DETAILS  
FULL SCALE

2C  
EPOXY COVE BASE DETAIL  
3" = 1'-0"

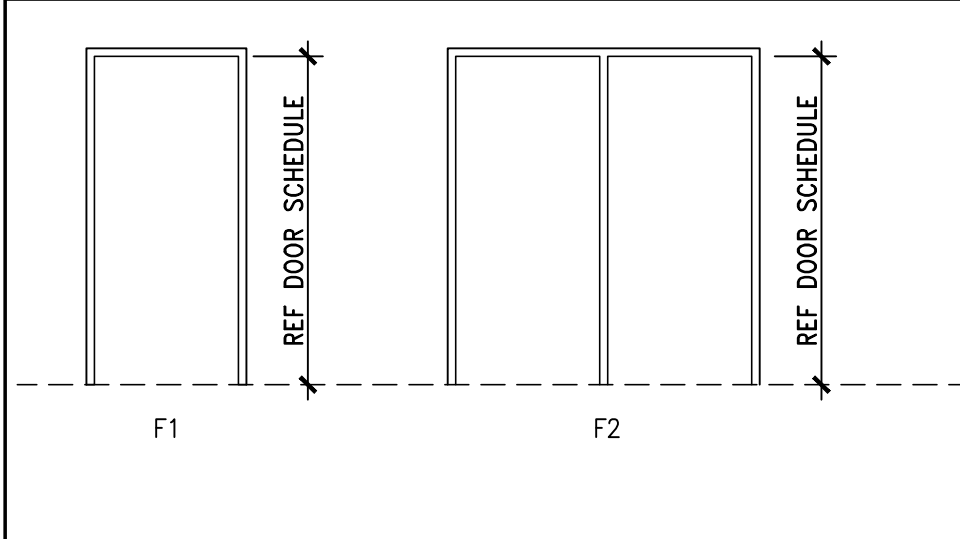


1D  
WALL EXTENSION DETAIL  
1 1/2" = 1'-0"

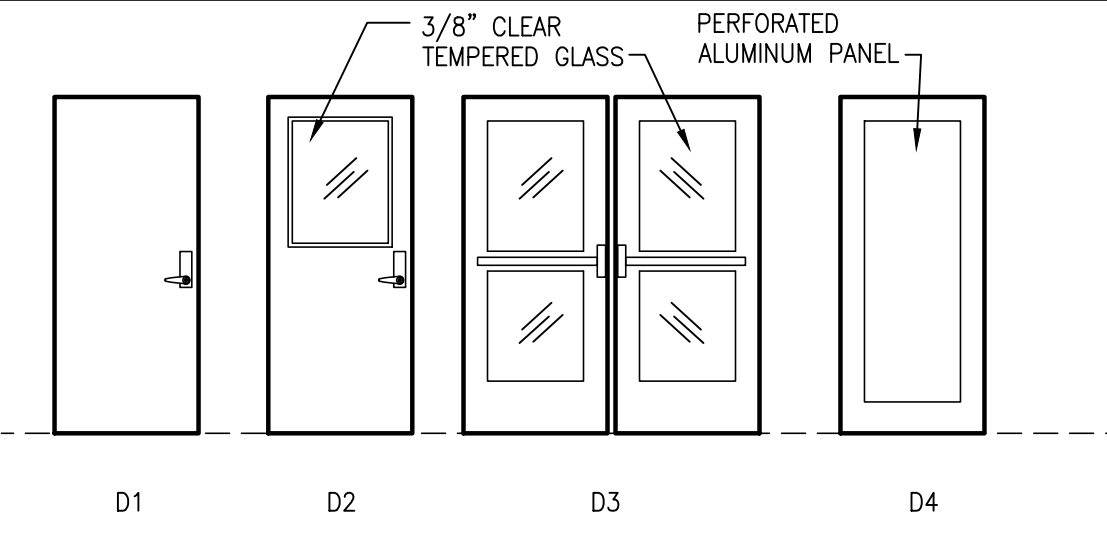
2D  
COUNTER DETAIL  
1 1/2" = 1'-0"

3D  
NOT USED  
1 1/2" = 1'-0"

#### DOOR FRAME TYPES



#### DOOR TYPES



#### DOOR AND FRAME SCHEDULE

| NUMBER | ROOM               | DOOR       |        |      |      | FRAME |      |            |         |         | HARDWARE     |       | NOTES  |
|--------|--------------------|------------|--------|------|------|-------|------|------------|---------|---------|--------------|-------|--|
|        |                    | SIZE       |        | MATL | TYPE | MATL  | TYPE | DETAIL     |         |         | FUNCTION     | GROUP |  |
|        |                    | WIDTH      | HEIGHT |      |      |       |      | HEAD       | JAMB    | SILL    |              |       |  |
| 100    | VESTIBULE          | 3'-0" (PR) | 7'-0"  | FG   | D3   | FG    | F2   | 2C/A5.1    | 2C/A5.1 | 2D/A5.1 | KEYPAD LOCK  | 2     |  |
| 102    | POOL OFFICE        | 3'-0"      | 7'-0"  | FG   | D2   | FG    | F2   |            | 1D/A5.1 |         | OFFICE LOCK  | 1     |  |
| 103B   | HALL               | 3'-0"      | 7'-0"  | FG   | D2   | FG    | F2   |            |         |         | OFFICE LOCK  | 4     |  |
| 103C   | SAUNA              |            |        |      |      |       |      |            | 5D/A5.1 | 5D/A5.1 |              |       | SAUNA DOOR SUPPLIED AS PART OF PREMANUFACTURED PACKAGE |
| 105    | MEN'S HALL         | 3'-0"      | 7'-0"  | FG   | D1   | FG    | F1   |            |         |         | PUSH / PULL  | 3     |  |
| 106    | MEN'S LOCKERS      | 3'-0"      | 7'-0"  | FG   | D1   | FG    | F1   | 1C,1D/A5.1 |         |         | PUSH / PULL  | 3     |  |
| 108    | STAFF              | 3'-0"      | 7'-0"  | FG   | D1   | FG    | F1   | 1D/A5.1    |         |         | PRIVACY LOCK | 4     |  |
| 110A   | FAMILY LOCKER ROOM | 3'-0"      | 7'-0"  | FG   | D1   | FG    | F1   | 1D/A5.1    |         |         | PRIVACY LOCK | 4     |  |
| 110B   | FAMILY LOCKER ROOM | 3'-0"      | 7'-0"  | FG   | D1   | FG    | F1   | 1C,1D/A5.1 |         |         | PRIVACY LOCK | 4     |  |
| 112    | VESTIBULE          | 3'-0"      | 7'-0"  | FG   | D1   | FG    | F1   |            |         |         | PUSH / PULL  | 3     |  |
| 114    | WOMEN'S LOCKERS    | 3'-0"      | 7'-0"  | FG   | D1   | FG    | F1   |            |         |         | PUSH / PULL  | 3     |  |
| 115    | WOMEN'S HALL       | 3'-0"      | 7'-0"  | FG   | D1   | FG    | F1   |            |         |         | PUSH / PULL  | 3     |  |
| EX-1   | SCREEN WALL        | 3'-0"      | 6'-8"  | AL   | D4   | AL    | F1   |            |         |         | EXIT DEVICE  | 6     | PERFORATED METAL IN LIEU OF GLAZING                    |
| 200    | COMM ROOM          | 3'-0"      | 7'-0"  | FG   | D1   | FG    | F1   |            |         |         | STORAGE LOCK | 5     |  |

#### ALTERNATE #1 - CARD LOCK DOOR ENTRY SYSTEM

| NUMBER | ROOM        | DOOR          |      |      | FRAME |      |        |      |      | HARDWARE | NOTES                   |
|--------|-------------|---------------|------|------|-------|------|--------|------|------|----------|-------------------------|
|        |             | SIZE          | MATL | TYPE | MATL  | TYPE | DETAIL |      |      |          |                         |
|        |             |               |      |      |       |      | HEAD   | JAMB | SILL | GROUP    |                         |
| 100    | ENTRY       | NEW PR 3'x 7' | FG   | D3   | FG    | F2   | —      | —    | —    | 3A       | —                       |
| N100   | NATATORIUM  | 3'x7'         | FG   | D1   | FG    | F1   | —      | —    | —    | 8A       | EXISTING DOOR TO REMAIN |
| N101   | NATATORIUM  | 3'x7'         | FG   | D2   | FG    | F1   | —      | —    | —    | 8A       | EXISTING DOOR TO REMAIN |
| M100   | FILTER ROOM | 3'x7'         | FG   | D1   | FG    | F1   | —      | —    | —    | 7A       | EXISTING DOOR TO REMAIN |

#### ROOM FINISH SCHEDULE

| ROOM NUMBER | ROOM NAME           | FLOOR MATERIAL | WALL BASE | NORTH WALL |                           | EAST WALL |                  | SOUTH WALL |                  | WEST WALL |                     | CEILING             |                  | CLG. HEIGHT  | NOTES  |
|-------------|---------------------|----------------|-----------|------------|---------------------------|-----------|------------------|------------|------------------|-----------|---------------------|---------------------|------------------|--------------|--|
|             |                     |                |           | SUBSTRATE  | MATERIAL/ FINISH          | SUBSTRATE | MATERIAL/ FINISH | SUBSTRATE  | MATERIAL/ FINISH | SUBSTRATE | MATERIAL/ FINISH    | MATERIAL/ SUBSTRATE | MATERIAL/ FINISH |              |  |
| 100         | VESTIBULE           | CPT            | RB        | ETR (GWB)  | PNT-1                     | ETR (GWB) | PNT-1            | ETR (GWB)  | PNT-1            | ETR (GWB) | PNT-1               | ETR (GWB/ACT)       | PNT-1/FF         | ETR (VARIES) |  |
| 101         | LOBBY               | CPT            | RB        | ETR (GWB)  | PNT-1                     | ETR (GWB) | RVS-1/PNT-1      | ETR (GWB)  | PNT-1            | ETR (GWB) | PNT-1               | ETR (GWB/ACT)       | ETR              | ---          | RVS TO 7'-2" AFF; PAINT WALLS TO UNDERSIDE OF STRUCTURE  |
| 102         | POOL OFFICE         | CPT            | RB        | GWB        | PNT-1                     | ETR (GWB) | PNT-1            | ETR (GWB)  | PNT-1            | ETR (GWB) | PNT-1               | ETR (MP/GWB)        | ETR (FF/PNT-1)   | ETR          |  |
| 103A        | HALL                | CPT            | RB        | GWB        | PNT-1                     | ---       | PNT-1            | GWB        | PNT-1            | ---       | ---                 | GWB                 | PNT-1            | +/- 8'-1"    |  |
| 103B        | HALL                | CCS            | CCS       | GWB        | PNT-1                     | ---       | ---              | GWB        | PNT-1            | GWB       | PNT-1               | GWB                 | PNT-1            | 7'-2"/8'-1"  |  |
| 103C        | SAUNA               | CCS            | CCS       | GWB        | SEE NOTES                 | GWB       | SEE NOTES        | GWB        | SEE NOTES        | GWB       | SEE NOTES           | GWB                 | SEE NOTES        | +/- 8'-1"    | WALL/CEILING FINISH MATERIALS PART OF PRE-FABRICATED UNIT  |
| 104         | MEN'S TOILET        | CCS            | CCS       | GWB        | CT-1,2/ PNT-1             | GWB       | CT-1,2/ PNT-1    | GWB        | CT-1,2/ PNT-1    | GWB       | CT-2,3,4B,5B/ PNT-1 | GWB                 | PNT-1            | +/- 8'-1"    | FULL HEIGHT ACCENT TILE AT WEST WALL; FULL HEIGHT FIELD TILE AT REMAINING WALLS; SEE ELEV.                       |
| 105         | MEN'S HALL          | CCS            | CCS       | ETR (GWB)  | RVS-2/PNT-1               | ETR (GWB) | RVS-2/PNT-1      | ETR (GWB)  | RVS-2/PNT-1      | ETR (GWB) | RVS-2/PNT-1         | ETR (GWB)           | PNT-1            | +/- 8'-1"    | RVS TO 7'-2" AFF, PAINT ABOVE  |
| 106         | MEN'S LOCKERS       | CCS            | CCS       | ETR (GWB)  | RVS-2/PNT-1               | ETR (GWB) | RVS-2/PNT-1      | ETR (GWB)  | RVS-2/PNT-1      | ETR (GWB) | RVS-2/PNT-1         | ETR (GWB)           | PNT-1            | +/- 8'-1"    | RVS TO 7'-2" AFF, PAINT ABOVE  |
| 107         | MEN'S SHOWER        | CCS            | CCS       | GWB        | CT-2,3,4B,5B/ PNT-1       | GWB       | CT-1,2/ PNT-1    | GWB        | CT-1,2/ PNT-1    | GWB       | CT-1,2/ PNT-1       | GWB                 | RVS-3            | +/- 8'-1"    | FULL HEIGHT ACCENT TILE AT WEST WALL; FULL HEIGHT FIELD TILE AT REMAINING WALLS; SEE ELEV.                       |
| 108         | STAFF               | CCS            | CCS       | GWB        | CT-1,2/PNT-1              | GWB       | CT-1,2/PNT-1     | GWB        | CT-1,2/PNT-1     | GWB       | CT-1,2/PNT-1        | GWB                 | PNT-1            | +/- 8'-1"    | FIELD TILE TO 6'-4" A.F.F. AT ALL WALLS; SEE ELEV.   |
| 109         | HALL                | CCS            | CCS       | ETR (GWB)  | RVS-2/PNT-1               | ---       | ---              | GWB        | RVS-2/PNT-1      | GWB       | RVS-2/PNT-1         | GWB                 | PNT-1            | +/- 8'-1"    | RVS TO 7'-2" AFF, PAINT ABOVE  |
| 110         | FAMILY LOCKER ROOM  | CCS            | CCS       | GWB        | CT-2,3,4B,4C, 5B,5C/PNT-1 | GWB       | CT-1,2/ PNT-1    | GWB        | CT-1,2/ PNT-1    | GWB       | CT-2,3,4B,5B/ PNT-1 | GWB                 | PNT-1            | +/- 8'-1"    | ACCENT TILE TO 6'-4" A.F.F. AT NORTH WALL; FIELD TILE TO 6'-4" A.F.F. AT REMAINING WALLS; PAINT ABOVE; SEE ELEV. |
| 111         | ALCOVE              | CPT            | RB        | ETR (GWB)  | RVS-1/PNT-1               | ETR (GWB) | RVS-1/PNT-1      | ETR (GWB)  | RVS-1/PNT-1      | ---       | ---                 | ETR (GWB)           | PNT-1            | +/- 8'-1"    | RVS TO 7'-2" AFF, PAINT ABOVE  |
| 112         | VESTIBULE           | CCS            | CCS       | ETR (GWB)  | RVS                       | ETR (GWB) | RVS              | ETR (GWB)  | RVS              | ETR (GWB) | RVS                 | ETR (GWB)           | PNT-1            | 7'-2"        | RVS TO 7'-2" AFF, PAINT ABOVE  |
| 113         | JANITOR             | ---            | ---       | ---        | ---                       | ---       | ---              | ---        | ---              | ---       | ---                 | ---                 | ---              | ---          | NO FINISH WORK   |
| 114         | WOMEN'S LOCKERS     | CCS            | CCS       | ETR (GWB)  | RVS-2/PNT-1               | ETR (GWB) | RVS-2/PNT-1      | ETR (GWB)  | RVS-2/PNT-1      | ETR (GWB) | RVS-2/PNT-1         | ETR (GWB)           | PNT-1            | +/- 8'-1"    | RVS TO 7'-2" AFF, PAINT ABOVE  |
| 115         | WOMEN'S HALL        | CCS            | CCS       | ETR (GWB)  | RVS-2/PNT-1               | ETR (GWB) | RVS-2/PNT-1      | ETR (GWB)  | RVS-2/PNT-1      | ETR (GWB) | RVS-2/PNT-1         | ETR (GWB)           | PNT-1            | +/- 8'-1"    | RVS TO 7'-2" AFF, PAINT ABOVE  |
| 116         | WOMEN'S TOILET      | CCS            | CCS       | GWB        | CT-2,3,4C,5C/ PNT-1       | GWB       | CT-1,2/ PNT-1    | GWB        | CT-1,2/ PNT-1    | GWB       | CT-1,2/ PNT-1       | ETR (GWB)           | PNT-1            | +/- 8'-1"    | FULL HEIGHT ACCENT TILE AT WEST WALL; FULL HEIGHT FIELD TILE AT REMAINING WALLS; SEE ELEV.                       |
| 117         | WOMEN'S SHOWER      | CCS            | CCS       | GWB        | CT-1,2                    | GWB       | CT-1,2           | GWB        | CT-1,2           | GWB       | CT-2,3,4C,5C        | GWB                 | RVS-3            | +/- 8'-1"    | ACCENT TILE/FIELD TILE FULL HEIGHT OF ALL WALLS  |
| 118         | ELECTRICAL          | ---            | ---       | ---        | ---                       | ---       | ---              | ---        | ---              | ---       | ---                 | ---                 | ---              | ---          | NO FINISH WORK   |
| 119         | LAUNDRY STORAGE     | ---            | ---       | ---        | ---                       | ---       | ---              | ---        | ---              | ---       | ---                 | ---                 | ---              | ---          | NO FINISH WORK   |
| 120         | FILTER ROOM/STORAGE | ---            | ---       | ---        | ---                       | ---       | ---              | ---        | ---              | ---       | ---                 | ---                 | ---              | ---          | NO FINISH WORK   |
| 121         | NATATORIUM          | ---            | ---       | ---        | ---                       | ---       | ---              | ---        | ---              | ETR (GWB) | PNT-1/AP            | ---                 | ---              | ---          | NEW AP AT WALL INFILL  |
| 200         | COMM ROOM           | CPT            | RB        | ETR (GWB)  | PNT-1                     | GWB       | PNT-1            | ETR (GWB)  | PNT-1            | ETR (GWB) | PNT-1               | ETR (ACT)           | FF               | +/- 8'-1"    | FINISH EAST WALL AT BOTH SIDES WITH PNT-1  |

#### MATERIAL AND FINISH LEGEND

| ABBREVIATION | MATERIAL/FINISH              | MANUFACTURER                     | STYLE/PATTERN                    | COLOR                         | SIZE                   | NOTES                                |
|--------------|------------------------------|----------------------------------|----------------------------------|-------------------------------|------------------------|--------------------------------------|
| CPT          | CARPET                       | MANNINGTON COMMERCIAL            | TAKE BACK                        | RESTORE 4521                  | 24" X 24"              |                                      |
| RB           | RESILIENT WALL BASE          | ROPPE                            |                                  | 123 CHARCOAL                  | 4" HIGH                |                                      |
| CCS          | CONCRETE COATING SYSTEM      | SHERWIN WILLIAMS                 | CERAMIC CARPET COATING SYSTEM    | TO BE SELECTED                |                        |                                      |
| PNT-1        | PAINT - GENERAL WALL/CEILING | BENJAMIN MOORE                   |                                  | 2124-70 DISTANT GRAY          |                        |                                      |
| PNT-2        | PAINT - DOOR FRAMES          | RODDA PAINT                      |                                  | 0539 PLACE OF DUST            |                        |                                      |
| PNT-3        | PAINT - DOORS                | RODDA PAINT                      |                                  | 0537 DOVE'S WING              |                        |                                      |
| CT-1         | CERAMIC TILE                 | DALTILE                          | MODERN DIMENSIONS                | ARCTIC WHITE 0190, SEMI-GLOSS | 4-1/4" X 12-3/4"       |                                      |
| CT-2         | CERAMIC TILE                 | DALTILE                          | GLAZED WALL TILE                 | ARCTIC WHITE 0190, SEMI-GLOSS | 4-1/4" X 4-1/4"        |                                      |
| CT-3         | CERAMIC TILE                 | DALTILE                          | GLAZED WALL TILE                 | SUEDE GRAY 0182, SEMI-GLOSS   | 4-1/4" X 4-1/4"        |                                      |
| CT-4B        | CERAMIC TILE                 | DALTILE                          | GLAZED WALL TILE                 | MUSTARD 0012, SEMI-GLOSS      | 4-1/4" X 4-1/4"        |                                      |
| CT-4C        | CERAMIC TILE                 | DALTILE                          | GLAZED WALL TILE                 | KEY LIME 0098, SEMI-GLOSS     | 4-1/4" X 4-1/4"        |                                      |
| CT-5B        | CERAMIC TILE                 | DALTILE                          | GLAZED WALL TILE                 | MOON BEAM 0091, SEMI-GLOSS    | 4-1/4" X 4-1/4"        |                                      |
| CT-5G        | CERAMIC TILE                 | DALTILE                          | GLAZED WALL TILE                 | AQUA GLOW 0197, SEMI-GLOSS    | 4-1/4" X 4-1/4"        |                                      |
| RVS-1        | RIGID VINYL SHEET            | KOROSEAL INTERIOR PRODUCTS GROUP | KOROWOOD PROTECTIVE WALLCOVERING | RIGA BIRCH                    | 48" X 96", .040" THICK | LOBBY 101 ONLY                       |
| RVS-2        | RIGID VINYL SHEET            | KOROSEAL INTERIOR PRODUCTS GROUP | KOROGARD STANDARD COLORS         | FOG                           | 48" X 96", .040" THICK | WALLS AT LOCKER ROOM AREAS           |
| RVS-2        | RIGID VINYL SHEET            | KOROSEAL INTERIOR PRODUCTS GROUP | KOROGARD STANDARD COLORS         | SIMPLY WHITE                  | 48" X 96", .040" THICK | CEILINGS AT LOCKER ROOM AREA SHOWERS |
| TWS          | TACKABLE WALL SURFACE        | KOROSEAL WALLTALKERS             | TAC-WALL                         | 62 PEWTER                     |                        |                                      |
| PL-1         | PLASTIC LAMINATE - CABINETS  | FORMICA                          | PLANKED DELUXE PEAR 6206-43      |                               |                        |                                      |
| SS-1         | SOLID SURFACE - COUNTER TOPS | CORIAN                           | BLUE SPICE                       |                               |                        | POOL OFFICE                          |
| SS-2         | SOLID SURFACE - COUNTER TOPS | CORIAN                           | SILVER BIRCH                     |                               |                        | TOILET ROOM AREAS                    |
|              | MEN'S LOCKERS                | PER SPECIFICATIONS               |                                  | TO BE SELECTED                |                        | TWO COLORS; SEE ELEV.                |
|              | WOMEN'S LOCKERS              | PER SPECIFICATIONS               |                                  | TO BE SELECTED                |                        | TWO COLORS; SEE ELEV.                |
|              | SHOWER PARTITIONS            | ASI GLOBAL PARTITIONS            | SOLID PLASTIC (HDPE)             | 9201 WHITE                    |                        |                                      |
|              | TOILET PARTITIONS            | ASI GLOBAL PARTITIONS            | SOLID PLASTIC (HDPE)             | 9201 WHITE                    |                        |                                      |
|              | SHOWER CURTAIN FABRIC        | STANDARD TEXTILE COMPANY, INC.   | MATRIX                           | TO BE SELECTED                |                        |                                      |
| IMP          | INSULATED METAL PANEL        |                                  |                                  |                               |                        |                                      |
| ETR          | EXISTING TO REMAIN           |                                  |                                  |                               |                        |                                      |
| FF           | FACTORY FINISH               |                                  |                                  |                               |                        |                                      |
| EXP STR      | EXPOSED STRUCTURE            |                                  |                                  |                               |                        |                                      |
| AP           | ACOUSTICAL PANELS            | (NEW PANELS TO MATCH EXISTING)   |                                  |                               |                        |                                      |

CITY OF UNALASKA - AQUATICS CENTER IMPROVEMENTS  
55 EAST BROADWAY  
UNALASKA, ALASKA

Drawn Date  
11/15/15

Checked Job No.  
1502

Revision Date

Sheet Contents

Category Sheet

A6 1

HALF SIZE CONTRACT DOCUMENT 17" x 22"  
FULL SIZE CONTRACT DOCUMENT 30" x 42"

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## MECHANICAL LEGEND

|           |  |
|-----------|--|
| .....     | DENOTES DEMOLITION   |
| —+—       | WASTE  |
| ----      | VENT PIPING  |
| ----      | COLD WATER   |
| ----      | HOT WATER  |
| ----      | HOT WATER RECIRCULATED   |
| ---XXX--- | SEE ABBREVIATIONS FOR MEDIA  |
| —○—       | PIPE UP  |
| —○—       | PIPE DOWN  |
| —○—       | TEE UP   |
| —○—       | TEE DOWN   |
| —┐—       | CAP  |
| — —       | UNION  |
| —▶—       | DIRECTION OF FLOW  |
| — ○ —     | ISOLATION VALVE  |
| — ○ —     | 2-WAY CONTROL VALVE  |
| — ○ —     | 3-WAY CONTROL VALVE  |
| — ○ —     | CHECK VALVE  |
| — ○ —     | BALANCE/SHUT-OFF VALVE   |
| — ○ —     | PRESSURE REDUCING VALVE  |
| — ○ —     | FLEXIBLE PIPING CONNECTOR  |
| — ○ —     | PRESSURE/TEMPERATURE RELIEF VALVE  |
| — ○ —     | HOSE BIBB  |
| — ○ —     | PUMP   |
| — ○ —     | CLEANOUT   |
| — ○ —     | PIPE GUIDE   |
| — ○ —     | PIPE ANCHOR  |
| — ○ —     | THERMOMETER  |
| — ○ —     | PRESSURE GAUGE WITH ISOLATION COCK   |
| — ○ —     | STRAINER WITH BLOWDOWN   |
| — ○ —     | WATER HAMMER ARRESTOR  |
| — ○ —     | LETTER INDICATES PDI SIZE  |
| — ○ —     | FLOOR CLEANOUT   |
| — ○ —     | FLOOR DRAIN  |
| — ○ —     | FLOOR SINK   |
| — ○ —     | SUPPLY AIR UP & DOWN (SQUARE)  |
| — ○ —     | SUPPLY AIR DIFFUSER / GRILLE   |
| — ○ —     | RETURN AIR UP & DOWN (SQUARE)  |
| — ○ —     | RETURN AIR GRILLE  |
| — ○ —     | EXHAUST AIR UP & DOWN (SQUARE)   |
| — ○ —     | EXHAUST AIR GRILLE   |
| — ○ —     | ROUND DUCT UP & DOWN   |
| — ○ —     | VOLUME DAMPER  |
| — ○ —     | MOTORIZED CONTROL DAMPER   |
| — ○ —     | SOUND LINED DUCTWORK   |
| — ○ —     | DUCT SIZE<br>(FIRST NUMBER — SIDE SHOWN)<br>(SECOND NUMBER — SIDE NOT SHOWN) |
| — ○ —     | INSULATED DUCTWORK   |
| — ○ —     | TURNING VANES  |
| — ○ —     | FLEXIBLE DUCT CONNECTION   |
| — ○ —     | FIRE DAMPER  |
| — ○ —     | FIRE SMOKE DAMPER  |
| — ○ —     | DIFFUSER WITH FLEXIBLE DUCT  |
| — ○ —     | THERMOSTAT OR SENSOR   |
| — ○ —     | THERMOSTAT OR SENSOR WITH LOCKING COVER                                      |
| — ○ —     | STATIC PRESSURE SENSOR   |
| — ○ —     | POINT OF CONNECTION  |
| — ○ —     | SHEET NOTES  |
| — ○ —     | SERVICE: S—SUPPLY, R—RETURN, E—EXHAUST                                       |
| — ○ —     | CFM  |
| — ○ —     | DIFFUSER OR GRILLE TAG   |
| — ○ —     | DETAIL NUMBER  |
| — ○ —     | SHEET LOCATED ON   |

## ABBREVIATIONS

|       |                               |
|-------|-------------------------------|
| A     | COMPRESSED AIR                |
| AAV   | AUTOMATIC AIR VENT            |
| AD    | ACCESS DOOR                   |
| AF    | AIR FOIL                      |
| AFF   | ABOVE FINISHED FLOOR          |
| AHU   | AIR HANDLING UNIT             |
| ALT   | ALTERNATE                     |
| AMPS  | AMPERES                       |
| APD   | AIR PRESSURE DROP             |
| ARCH  | ARCHITECTURAL                 |
| AWT   | AVERAGE WATER TEMPERATURE     |
| BDD   | BACKDRAFT DAMPER              |
| BHD   | BOTTOM HORIZONTAL DISCHARGE   |
| BI    | BACKWARD INCLINE              |
| BIDS  | BUILDING                      |
| BOD   | BOTTOM OF DUCT                |
| BTUH  | BRITISH THERMAL UNIT PER HOUR |
| C/A   | COMBUSTION AIR                |
| CFM   | CUBIC FEET PER MINUTE         |
| CLG   | CEILING                       |
| CONT  | CONTINUED                     |
| CO    | CLEANOUT                      |
| CONN  | CONNECTION                    |
| CP    | CIRCULATION PUMP              |
| CUH   | CABINET UNIT HEATER           |
| CW    | COLD WATER                    |
| ø     | DIAMETER                      |
| DBD   | DOWNBLAST DISCHARGE           |
| DEG   | DEGREE                        |
| DN    | DOWN                          |
| DWG   | DRAWING                       |
| E/A   | EXHAUST AIR                   |
| EAT   | ENTERING AIR TEMPERATURE      |
| EF    | EXHAUST FAN                   |
| EG    | ETHYLENE GLYCOL               |
| ET    | EXPANSION TANK                |
| EXH   | EXHAUST                       |
| EWI   | ENTERING WATER TEMPERATURE    |
| ESP   | EXTERNAL STATIC PRESSURE      |
| EGT   | ENTERING GLYCOL TEMPERATURE   |
| EXIST | EXISTING                      |
| FEET  | FEET                          |
| FPM   | FEET PER MINUTE               |
| FPF   | FINS PER FOOT                 |
| FO    | FORWARD CURVE                 |
| F     | FAHRENHEIT                    |
| FCO   | FLOOR CLEAN OUT               |
| FD    | FIRE SMOKE DAMPER             |
| FSD   | FIRE SMOKE DAMPER             |
| G     | NATURAL GAS                   |
| GPH   | GALLONS PER HOUR              |
| GPM   | GALLONS PER MINUTE            |
| GI    | GREASE INTERCEPTOR            |
| GT    | GLYCOL TANK                   |
| HB    | HOSE BIBB                     |
| HC    | HEATING COIL                  |
| HD    | HEAD                          |
| HGR   | HEATING GLYCOL RETURN         |
| HGS   | HEATING GLYCOL SUPPLY         |
| HW    | HOT WATER                     |
| HWC   | HOT WATER CIRCULATED          |
| HP    | HORSEPOWER                    |
| ID    | INSIDE DIAMETER               |
| IN    | INCHES                        |
| LAT   | LEAVING AIR TEMPERATURE       |
| LF    | LINEAL FEET                   |
| LGT   | LEAVING GLYCOL TEMPERATURE    |
| LPG   | LIQUID PROPANE GAS            |
| LWT   | LEAVING WATER TEMPERATURE     |
| MAU   | MAKE UP AIR UNIT              |
| MAX   | MAXIMUM                       |
| MBH   | THOUSAND BTU PER HOUR         |
| MFR   | MANUFACTURER                  |
| M/A   | MAKEUP AIR                    |
| MIN   | MINIMUM                       |
| MTD   | MOUNTED                       |
| NC    | NOISE CRITERIA                |
| N.C.  | NORMALLY CLOSED               |
| N.O.  | NORMALLY OPEN                 |
| NSF   | NATIONAL SANITARY FOUNDATION  |
| NTS   | NOT TO SCALE                  |
| O/A   | OUTSIDE AIR                   |
| OD    | OUTSIDE DIAMETER              |
| PD    | PRESSURE DROP                 |
| PG    | PROPYLENE GLYCOL              |
| PH    | PHASE                         |
| PSI   | POUNDS PER INCH               |
| R/A   | RETURN AIR                    |
| RP    | RADIANT PANEL                 |
| RPM   | REVOLUTIONS PER MINUTE        |
| RL    | RAIN LEADER                   |
| S/A   | SUPPLY AIR                    |
| SD    | STORM DRAIN                   |
| SP    | STATIC PRESSURE               |
| TEMP  | TEMPERATURE                   |
| THD   | TOP HORIZONTAL DISCHARGE      |
| TOD   | TOP OF DUCT                   |
| TSP   | TOTAL STATIC PRESSURE         |
| TSTAT | THERMOSTAT                    |
| TW    | TEMPERED WATER                |
| TWC   | TEMPERED WATER CIRCULATED     |
| TYP   | TYPICAL                       |
| UBD   | UP BLAST DISCHARGE            |
| UH    | UNIT HEATER                   |
| V     | VENT                          |
| VEL   | VELOCITY                      |
| VF    | VENTILATION FAN               |
| VFD   | VARIABLE FREQUENCY DRIVE      |
| VTR   | VENT THROUGH ROOF             |
| WC    | WATER COLUMN                  |
| WG    | WATER GAGE                    |
| WCO   | WALL CLEAN OUT                |
| WHA   | WATER HAMMER ARRESTOR         |
| WH    | WATER HEATER                  |
| W     | WASTE                         |
| W/    | WITH                          |
| W/O   | WITHOUT                       |
| WPD   | WATER PRESSURE DROP           |
| YCO   | YARD CLEAN OUT                |

## PLUMBING FIXTURE SCHEDULE

| SYMBOL | FIXTURE                         | MINIMUM CONNECTION SIZE |      |        |        |        | MANUFACTURER | MODEL           | COLOR     | TRIM / REMARKS                    |
|--------|---------------------------------|-------------------------|------|--------|--------|--------|--------------|-----------------|-----------|-----------------------------------|
|        |                                 | CW                      | HW   | WASTE  | VENT   | TRAP   |              |                 |           |                                   |
| WC-1   | WATER CLOSET — WALL MOUNT — ADA | 1"                      | ---- | 4"     | 2"     | ----   | KOHLER       | KINGSTON K-4325 | WHITE     | MOUNT AT ADA HEIGHT, SEE NOTES    |
| WC-2   | WATER CLOSET — WALL MOUNT       | 1"                      | ---- | 4"     | 2"     | ----   | KOHLER       | KINGSTON K-4325 | WHITE     | SEE NOTES                         |
| UR-1   | URINAL — ADA                    | 3/4"                    | ---- | 2"     | 1-1/2" | 1-1/4" | KOHLER       | BARDON K-4904   | WHITE     | MOUNT AT ADA HEIGHT, SEE NOTES    |
| LV-1   | LAVATORY — UNDER MOUNT — ADA    | 1/2"                    | 1/2" | 1-1/2" | 1-1/2" | 1-1/4" | KOHLER       | CAXTON K-2211   | WHITE     | SEE NOTES                         |
| SK-1   | SINK — SINGLE COMPARTMENT       | 1/2"                    | 1/2" | 2"     | 1-1/2" | 1-1/2" | JUST         | SL-2225-A-GR    | STAINLESS | DELTA FAUCET 100LF-HDF            |
| SH-1   | SHOWER — ADA                    | 1/2"                    | 1/2" | 2"     | 1-1/2" | 1-1/2" | AQUATIC      | 3636BFSC        | WHITE     | SEE NOTES                         |
| SH-2   | SHOWER                          | 1/2"                    | 1/2" | 2"     | 1-1/2" | 1-1/2" | AQUATIC      | 36AC            | WHITE     | SEE NOTES                         |
| SV-1   | SHOWER VALVE                    | 1/2"                    | 1/2" | ----   | ----   | ----   | DELTA        | 860T177         | CHROME    | SEE NOTES                         |
| FD-1   | FLOOR DRAIN                     | ----                    | ---- | 2"     | 1-1/2" | 2"     | ZURN         | Z415B           | ----      | ROUND TOP, TRAP PRIMER CONNECTION |
| FS-1   | FLOOR SINK                      | ----                    | ---- | 2"     | 1-1/2" | 2"     | ZURN         | Z1900           | ----      | NB RIM, 3/4 GRATE                 |
| DF-1   | DRINKING FOUNTAIN — ADA         | 1/2"                    | ---- | 1-1/2" | 1-1/4" | 1-1/2" | ELKAY        | EDFBP114C       | STAINLESS | SEE NOTES                         |
| WB-1   | ICE MAKER OUTLET BOX            | 1/2"                    | ---- | ----   | ----   | ----   | OATEY        | 38574           | ----      | ADD ALT #4                        |
| HB-1   | HOSE BIBB                       | 1/2"                    | ---- | ----   | ----   | ----   | ZURN         | Z1341           | ----      | WITH VACUUM BREAKER               |

NOTES: WC-1, WC-2: SLOAN ROYAL 111 FLUSH VALVE, 1.6 GPF, SPLIT RIM SEAT, WALL CARRIER  
UR-1: SLOAN ROYAL 180 FLUSH VALVE, 1.0 GPF, WALL CARRIER  
LV-1: METAL GRID STRAINER, OVERFLOW, SLOAN ETF-80 WITH HARD WIRED TRANSFORMER, INSULATED TRAP & HW SUPPLY.  
SH-1: WITH GRAB BARS, FOLD UP SEAT, HAND-HELD SHOWER ASSEMBLY WITH SLIDE BAR, ASSE 1016 PRESSURE BALANCING MIXING VALVE, THRESH HOLD, SOAP DISH, CURTAIN ROD.  
SH-2: DELTA T13291 SHOWER HEAD AND SINGLE HANDLE, ASSE 1016 PRESSURE BALANCING MIXING VALVE.  
SV-1: HARD WIRED, ASSE 1016 PRESSURE BALANCING MIXING VALVE, ASSEMBLED CONTROL BOX WITH PUSH BUTTON, SLOW CLOSING SOLENOID VALVE AND LEVER BLADE HANDLE, WALL MOUNT SHOWER HEAD.  
DF-1: PUSH BUTTON, WALL MOUNTED WITH BACK PANEL, SATIN FINISH, FLEXI-GUARD SAFETY BUBBLER

## AIR INLET / OUTLET SCHEDULE

| SYMBOL | MFGR / MODEL               | TYPE     | SERVICE | MATERIAL | FINISH | CFM      | FACE SIZE<br>INCHES | NECK SIZE<br>INCHES | THROW | NC  | REMARKS  |
|--------|----------------------------|----------|---------|----------|--------|----------|---------------------|---------------------|-------|-----|--|
| SA     | TITUS / 250                | DIFFUSER | S/A     | ALUMINUM | WHITE  | PER DWGS | 12/12               | 12/12               | 4-WAY | <30 | WITH OPPOSED BLADE DAMPER                            |
| SB     | TITUS / 250                | DIFFUSER | S/A     | ALUMINUM | WHITE  | PER DWGS | 12/12               | 8"ø                 | 4-WAY | <30 | ----   |
| SC     | TITUS / 350FLF1            | DIFFUSER | S/A     | ALUMINUM | WHITE  | PER DWGS | 12/12               | 12/12               | 4-WAY | <30 | WITH 1" FILTER                                       |
| SD     | TITUS / 300FL              | GRILLE   | S/A     | ALUMINUM | WHITE  | PER DWGS | 14/8                | 14/8                | 2-WAY | <30 | WITH OPPOSED BLADE DAMPER, FRAME FOR SIDE WALL MOUNT |
| EA     | TITUS / 50F                | GRILLE   | E/A     | ALUMINUM | WHITE  | PER DWGS | 8/4                 | 8/4                 | ----  | <30 | WITH OPPOSED BLADE DAMPER, FRAME FOR GWB CEILING     |
| EB     | TITUS / 50F                | GRILLE   | E/A     | ALUMINUM | WHITE  | PER DWGS | 8/6                 | 8/6                 | ----  | <30 | WITH OPPOSED BLADE DAMPER, FRAME FOR GWB CEILING     |
| EC     | TITUS / 50F                | GRILLE   | E/A     | ALUMINUM | WHITE  | PER DWGS | 8/8                 | 8/8                 | ----  | <30 | WITH OPPOSED BLADE DAMPER, FRAME FOR GWB CEILING     |
| ED     | TITUS / 350FL              | GRILLE   | E/A     | ALUMINUM | WHITE  | PER DWGS | 8/4                 | 8/4                 | ----  | <30 | WITH OPPOSED BLADE DAMPER, FRAME FOR SIDE WALL MOUNT |
| EE     | TITUS / 350FL              | GRILLE   | E/A     | ALUMINUM | WHITE  | PER DWGS | 12/6                | 12/6                | ----  | <30 | WITH OPPOSED BLADE DAMPER, FRAME FOR SIDE WALL MOUNT |
| SX     | EXISTING DIFFUSER / GRILLE |          |         |          |        | PER DWGS |                     |                     |       |     |  |

## PUMP SCHEDULE

| SYMBOL | MFGR / MODEL  | SERVICE       | FLUID  | FLOW<br>(GPM) | HEAD<br>(FT) | RPM  | ELEC. DATA |          | REMARKS                             |
|--------|---------------|---------------|--------|---------------|--------------|------|------------|----------|-------------------------------------|
| CP-1   | TACO / KV2006 | HYDRONIC HEAT | 50%P.G | 136           | 118          | 3500 | HP         | VOLTS/PH | IN-LINE TYPE, WITH WALL MOUNTED VFD |

## KICK SPACE HEATER SCHEDULE

| SYMBOL | MFGR / MODEL       | CAPACITY<br>MBH | GPM | FLUID    | EFT   | LFT   | WPD<br>FT. HD | CFM | AMP | VOLTS/PH | REMARKS       |
|--------|--------------------|-----------------|-----|----------|-------|-------|---------------|-----|-----|----------|---------------|
| KS-1   | EMBASSY / HAV-48-3 | 4.8             | 1.0 | 50% P.G. | 180°F | 150°F | <0.2          | 53  | 0.5 | 120/1    | TWO SPEED FAN |

## SPLIT SYSTEM AIR CONDITIONING CONDENSING UNIT SCHEDULE

| SYMBOL | MFGR / MODEL            | REFRIGERANT | SERVICE | NOMINAL<br>TONS | AMB<br>TEMP | ELECTRICAL DATA |      |          | REMARKS            |
|--------|-------------------------|-------------|---------|-----------------|-------------|-----------------|------|----------|--------------------|
| CU-1   | MITSUBISHI / PUY-A12NH4 | R-410A      | CAC-1   | 1.0             | 95°F        | MCA             | MOCP | VOLTS/PH | WITH WALL BRACKETS |

## COMPUTER ROOM AIR CONDITIONING UNIT

| SYMBOL | MFGR / MODEL            | NOMINAL<br>TONS | REFRIGERANT | FLA  | MCA | VOLTS/PHASE | REMARKS   |
|--------|-------------------------|-----------------|-------------|------|-----|-------------|---|
| CAC-1  | MITSUBISHI / PKA-A12HA4 | 1.0             | R-410A      | 0.33 | 1   | 208/1       | WITH WALL BRACKETS, INTEGRAL CONTROL SYSTEM, REMOTE CONTROL PANEL |

## SEQUENCE OF OPERATION

GENERAL  
UNLESS OTHERWISE INDICATED, ALL CONTROL FUNCTIONS SHALL BE THROUGH THE DIRECT DIGITAL CONTROLS (DDC) SYSTEM IN THE SCHOOL WITH APPROPRIATE SYSTEM GRAPHICS AND USER INTERFACE TO MONITOR AND CONTROL SYSTEMS. EQUIPMENT WITH INTEGRAL CONTROLS DO NOT NEED TO BE CONTROLLED THROUGH THE DDC CONTROLS SYSTEM BUT SHALL REQUIRE ENABLE/DISABLE CONTROL AND MONITORING BY DDC SYSTEM WHERE INDICATED. THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL CONTROL SYSTEM AS REQUIRED TO PROVIDE EQUIPMENT CONTROL AS SPECIFIED UNDER THE SEQUENCE OF OPERATION. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, POWER, WIRING, CONDUIT, CONTROLLERS, ACTUATORS, AND ASSOCIATED CONTROL COMPONENTS FOR A COMPLETE AND OPERATIONAL SYSTEM. REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS.

HEATING PUMP (CP-1)  
PUMP SHALL OPERATE CONTINUOUSLY. MODULATE THE PRIMARY PUMP VFD TO MAINTAIN THE SYSTEM DIFFERENTIAL PRESSURE SET POINT (ADJUSTABLE). DIFFERENTIAL PRESSURE SET-POINT SHALL BE DETERMINED DURING BALANCING.

KICK SPACE HEATER (KS-1)  
NO CONTROL OR MONITORING BY DDC.  
CONTROL VALVE SHALL OPEN ON CALL FOR HEATING FROM SPACE THERMOSTAT. FAN SHALL BE INTERNALLY CONTROLLED.

IT ROOM AIR CONDITIONING UNIT (CAC-1 AND CU-1)  
NO CONTROL OR MONITORING BY DDC.  
COMPUTER ROOM AIR CONDITIONER SHALL OPERATE TO MAINTAIN ROOM TEMPERATURE SET POINT.  
MANUFACTURER SUPPLIED CONTROL PANEL SHALL CONTROL COOLING.

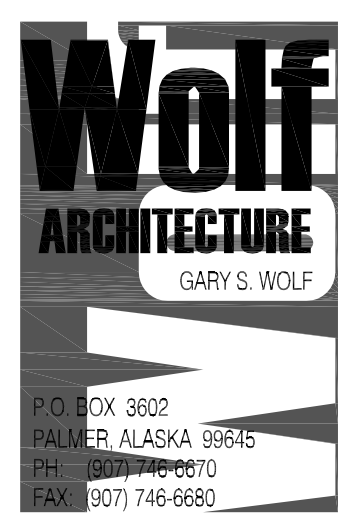
HRV  
ADD CONTROL AT DDC FOR NEW OUTSIDE AIR INTAKE PRESSURE SENSOR.  
WHEN THE PRESSURE IS ABOVE SET POINT 0.05"WC (ADJUSTABLE) THE HRV EXHAUST AND SUPPLY FANS SHALL STOP. SIGNAL ALARM. PROVIDE AUTOMATIC RESET. PRESSURE SET-POINT SHALL BE DETERMINED DURING BALANCING.

## BALANCE NOTES

RE-BALANCE AIR DISTRIBUTION AND HYDRONIC DISTRIBUTION SYSTEM IN ITS ENTIRETY.

AIR SIDE BALANCE  
THE INTENT OF THE AIR BALANCE IS TO ACHIEVE CODE REQUIRED VENTILATION IN THE REMODELED LOCKER ROOM AREAS. THE ORIGINAL DRAWINGS SHOW A FEW EXHAUST GRILLE LOCATED IN THE CHASES ABOVE THE LOCKERS IN THE MEN'S AND WOMEN'S LOCKER ROOMS. THE EXISTENCE OF THESE GRILLES COULD NOT BE VERIFIED DURING THE SITE VISIT. THE INTENT IS TO BALANCE THE LOCKER ROOM AREAS PER THE AIRFLOW ON THE DRAWINGS DESPITE LEAVING THE EXISTING GRILLES IN THE CHASES UNTOUCHED.

FLUID SIDE BALANCE  
THE INTENT OF THE PUMP REPLACEMENT AND THE REVISED FLUID SIDE BALANCE IS TO ENSURE FULL HEATING CAPACITY AT ALL HYDRONIC TERMINAL UNITS IN THE SYSTEM. FLOWS WERE COMPILED FROM RECORD DRAWINGS OF PREVIOUS MECHANICAL PROJECTS.



CITY OF UNALASKA - AQUATICS CENTER IMPROVEMENTS  
55 EAST BROADWAY  
UNALASKA, ALASKA

Drawn  
AK

Date  
11/15/2015

Checked  
CCH

Job No.  
2015.002

Revision

Date

Sheet Contents  
MECHANICAL LEGEND,  
ABBREVIATIONS,  
SCHEDULES AND  
SEQUENCE

Category

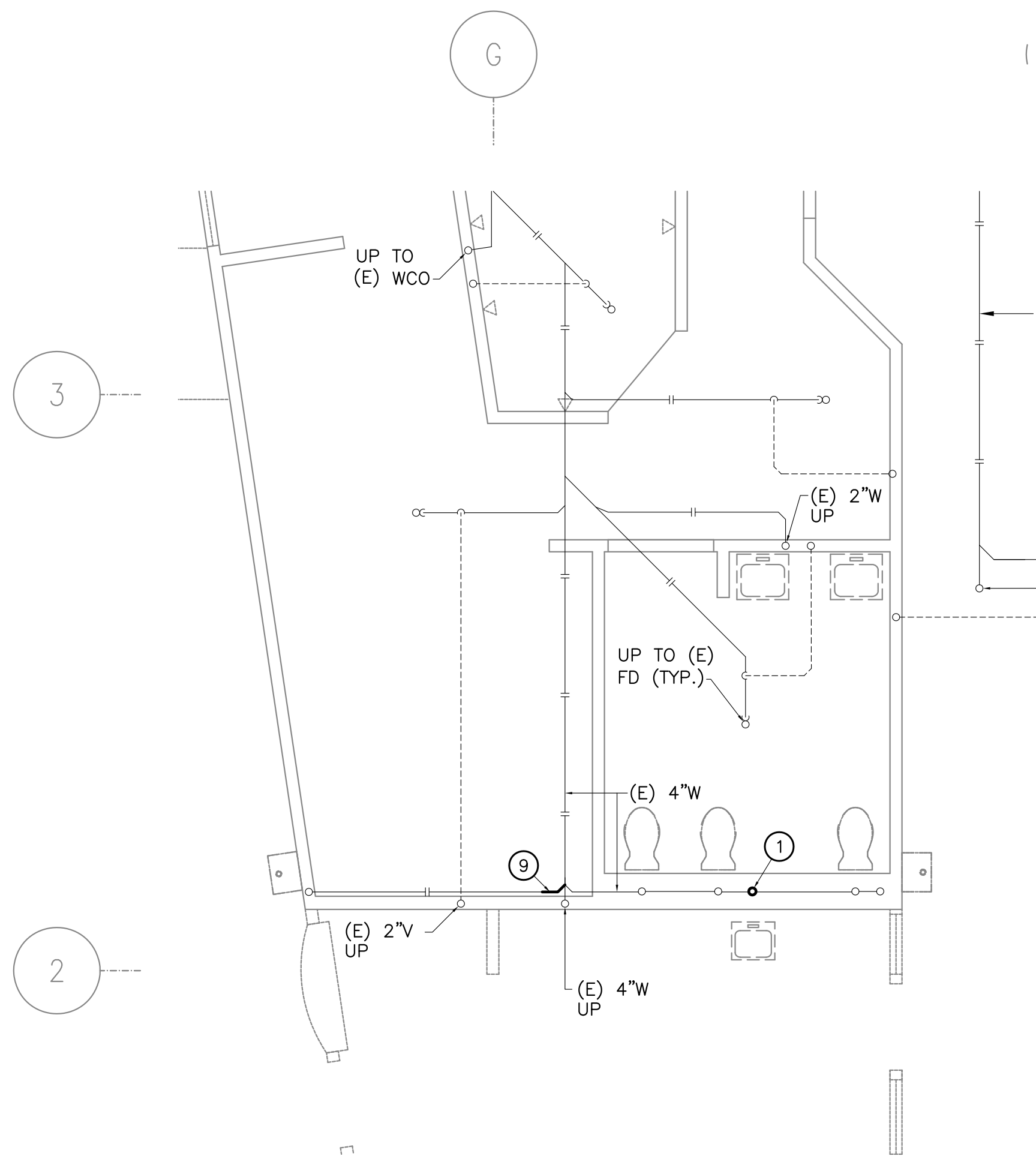
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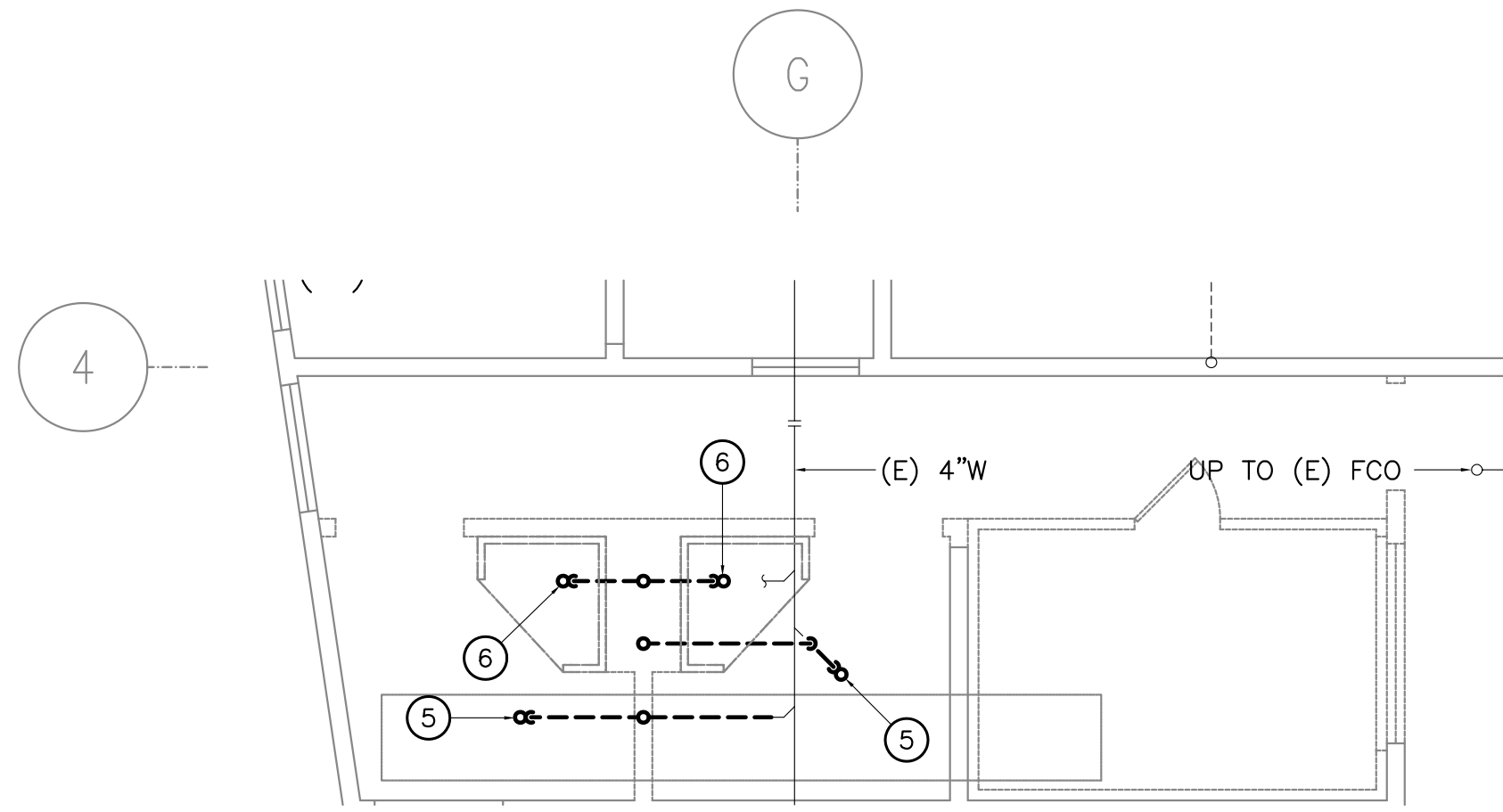
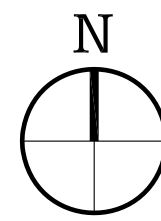
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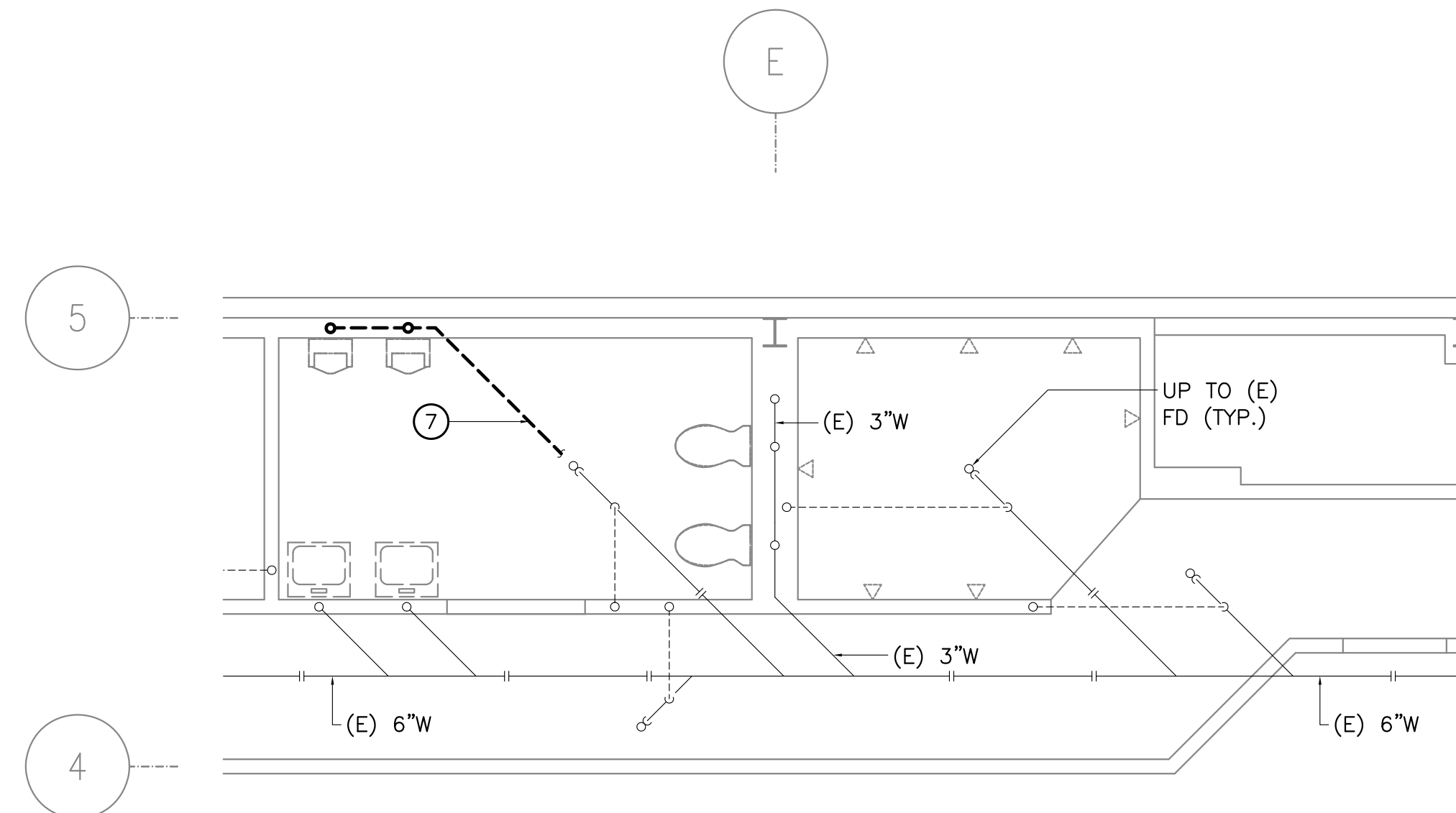
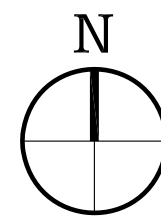




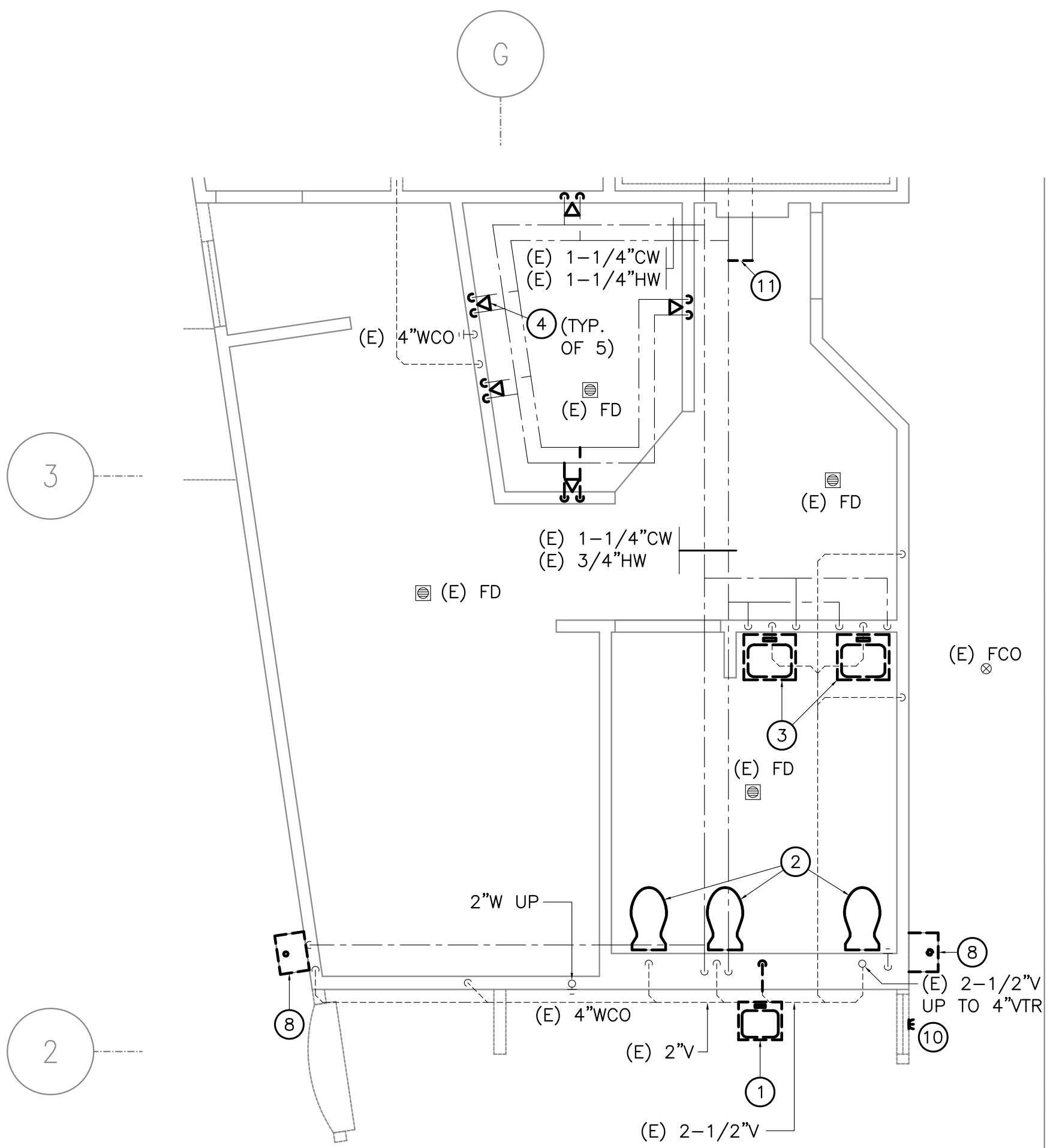
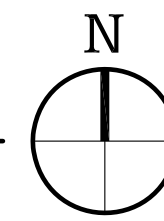
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M1.2 SCALE: 1/4" = 1'-0"



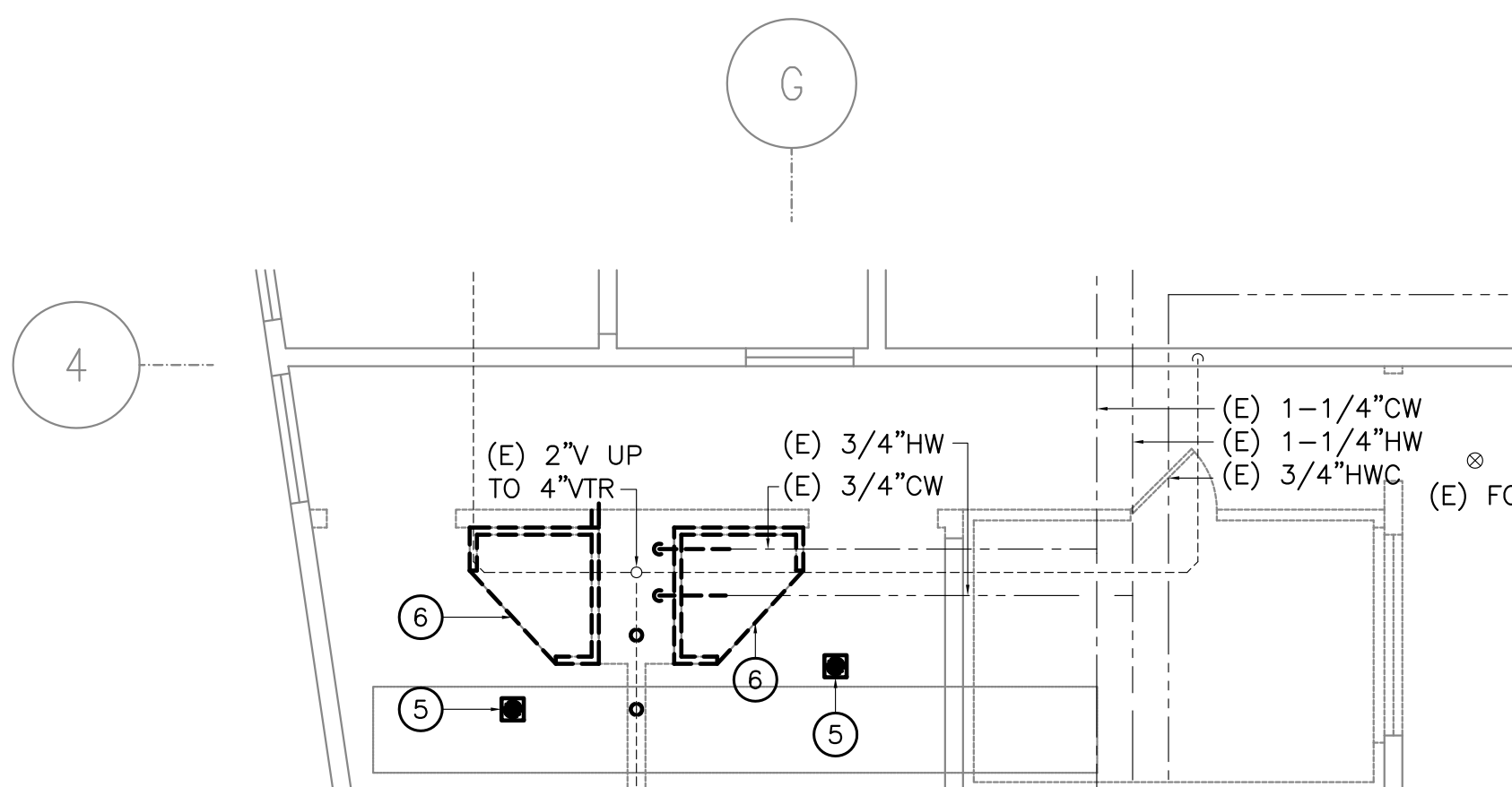
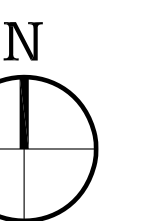
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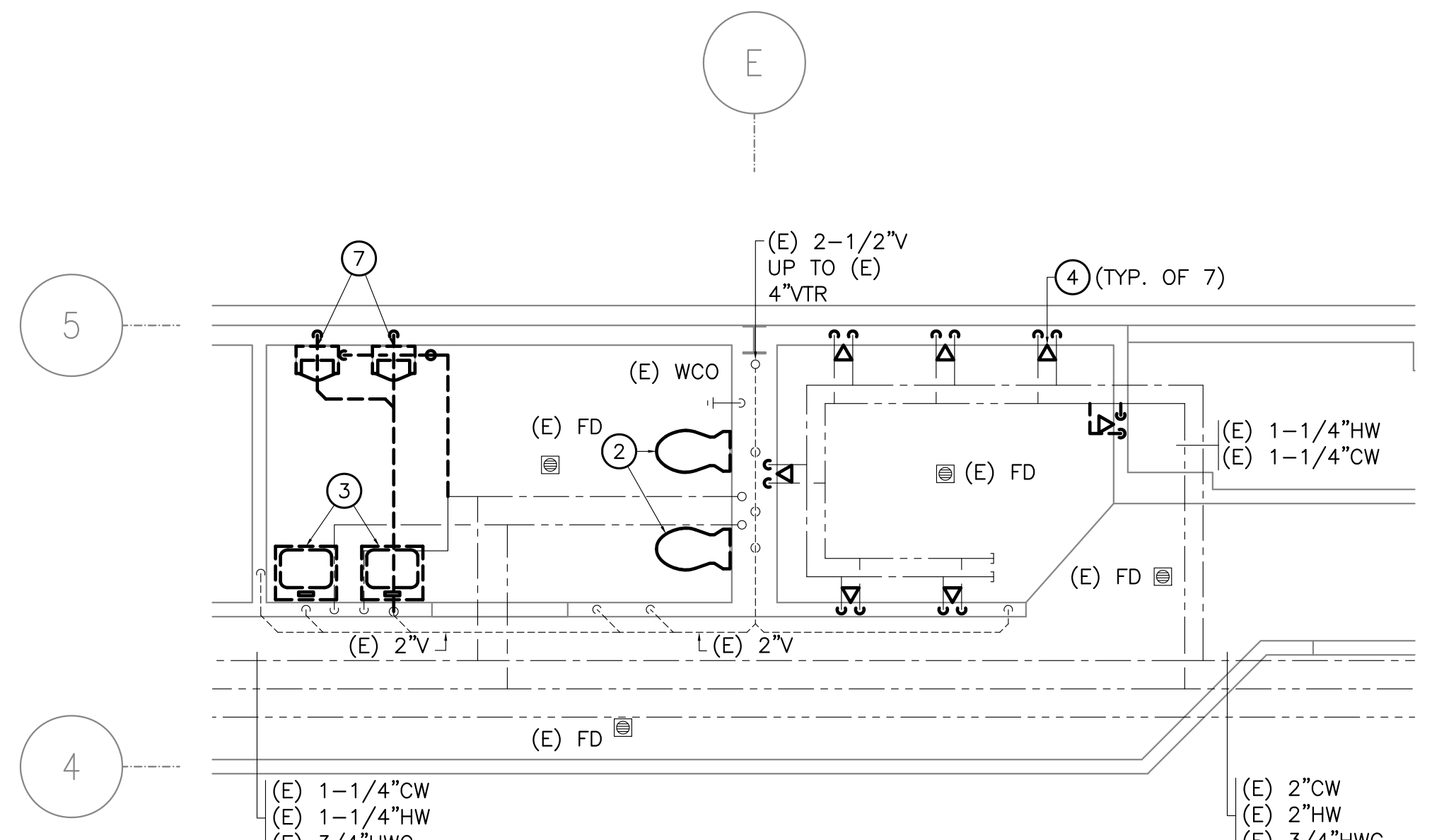
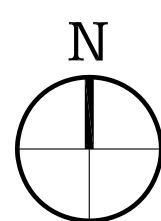
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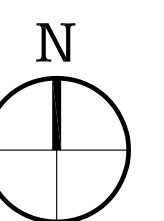
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M1.2 SCALE: 1/4" = 1'-0"



**5 FAMILY 1ST FLOOR DEMO PLUMBING PLAN**  
M1.2 SCALE: 1/4" = 1'-0"



**6 MEN'S 1ST FLOOR DEMO PLUMBING PLAN**  
M1.2 SCALE: 1/4" = 1'-0"



## SHEET NOTES

- EXISTING SYSTEMS SHOWN ON THE DRAWINGS ARE MOSTLY FROM RECORD DRAWINGS. ACTUAL SYSTEMS MAY VARY FROM THE INFORMATION INDICATED ON THE DRAWINGS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, LOCATIONS AND SIZES BEFORE START OF WORK.
- PIPING AND EQUIPMENT SHOWN LIGHT IS EXISTING, INSTALLED UNDER PREVIOUS PROJECTS. DEMO IS SHOWN DARK-DASHED.
- CONTRACTOR SHALL CUT AND REPAIR SLAB TO MATCH EXISTING WHEN DEMOLISHED TO MODIFY TO THE WASTE PIPING AS PART OF THIS REMODEL.
- CONTRACTOR SHALL PATCH AND REPAIR WALLS AND CEILINGS TO MATCH EXISTING WHEN DEMOLISHED TO MODIFY TO THE WATER AND VENT PIPING AS PART OF THIS REMODEL.

## KEY NOTES

- DEMOLISH SINK AND ASSOCIATED WASTE, VENT, HOT WATER AND COLD WATER PIPING BACK TO MAIN. CAP PIPING IN CONCEALED LOCATION.
- DEMOLISH TOILET, WALL CARRIER AND FLUSH VALVE. MODIFY COLD WATER WASTE AND VENT PIPING AS REQUIRED FOR RECONNECTION.
- DEMOLISH LAVATORY. MODIFY WASTE, VENT, HOT WATER AND COLD WATER AS REQUIRED FOR RECONNECTION.
- DEMOLISH SHOWER HEAD AND TRIM. MODIFY HOT AND COLD WATER PIPING AS REQUIRED FOR RECONNECTION.
- DEMOLISH FLOOR DRAIN AND ASSOCIATED WASTE AND VENT PIPING TO EXTENT SHOWN. CAP PIPING IN CONCEALED LOCATION.
- DEMOLISH SHOWER AND ASSOCIATED WASTE, VENT, HOT WATER AND COLD WATER PIPING TO EXTENT SHOWN. CAP PIPING IN CONCEALED LOCATION.
- DEMOLISH URINAL, WALL CARRIER, FLUSH VALVE, AND ASSOCIATED COLD WATER, WASTE, AND VENT PIPING TO EXTENT SHOWN. CAP PIPING IN CONCEALED LOCATION.
- DEMOLISH EXISTING DRINKING FOUNTAIN. EXISTING WASTE, VENT AND COLD WATER PIPING TO REMAIN.
- DEMOLISH EXISTING 1-1/2" WASTE AS REQUIRED TO ACCOMMODATE NEW FIXTURE INSTALLATION.
- DEMOLISH HOSE BIBB. MODIFY COLD WATER PIPING AS REQUIRED FOR RECONNECTION.
- DEMOLISH 3/4"HWC TO EXTENT SHOWN IN PREPARATION FOR HWC EXTENSION.

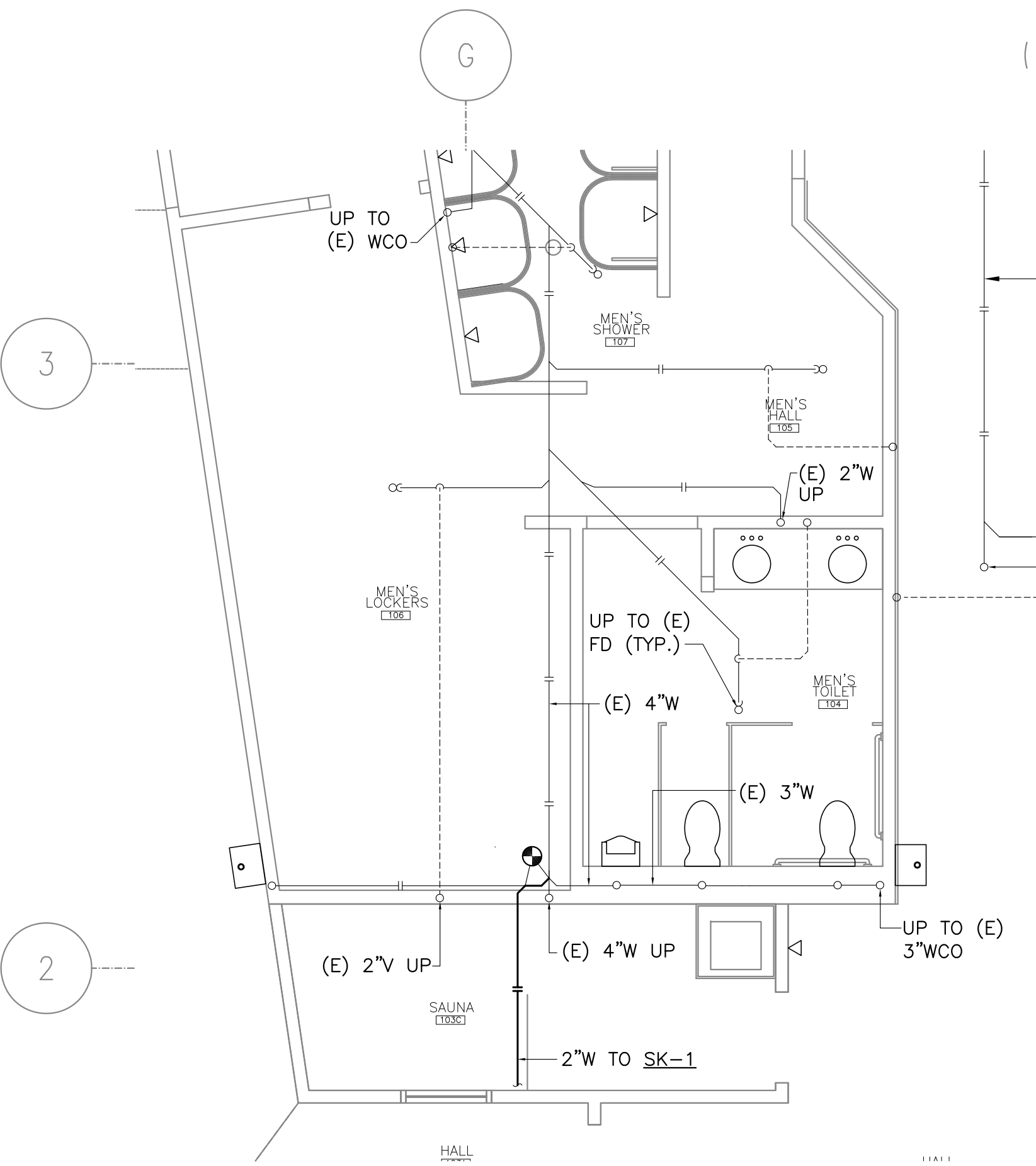
**CITY OF UNALASKA - AQUATICS CENTER IMPROVEMENTS**  
**55 EAST BROADWAY**  
**UNALASKA, ALASKA**

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| AK      | 11/15/2015 |
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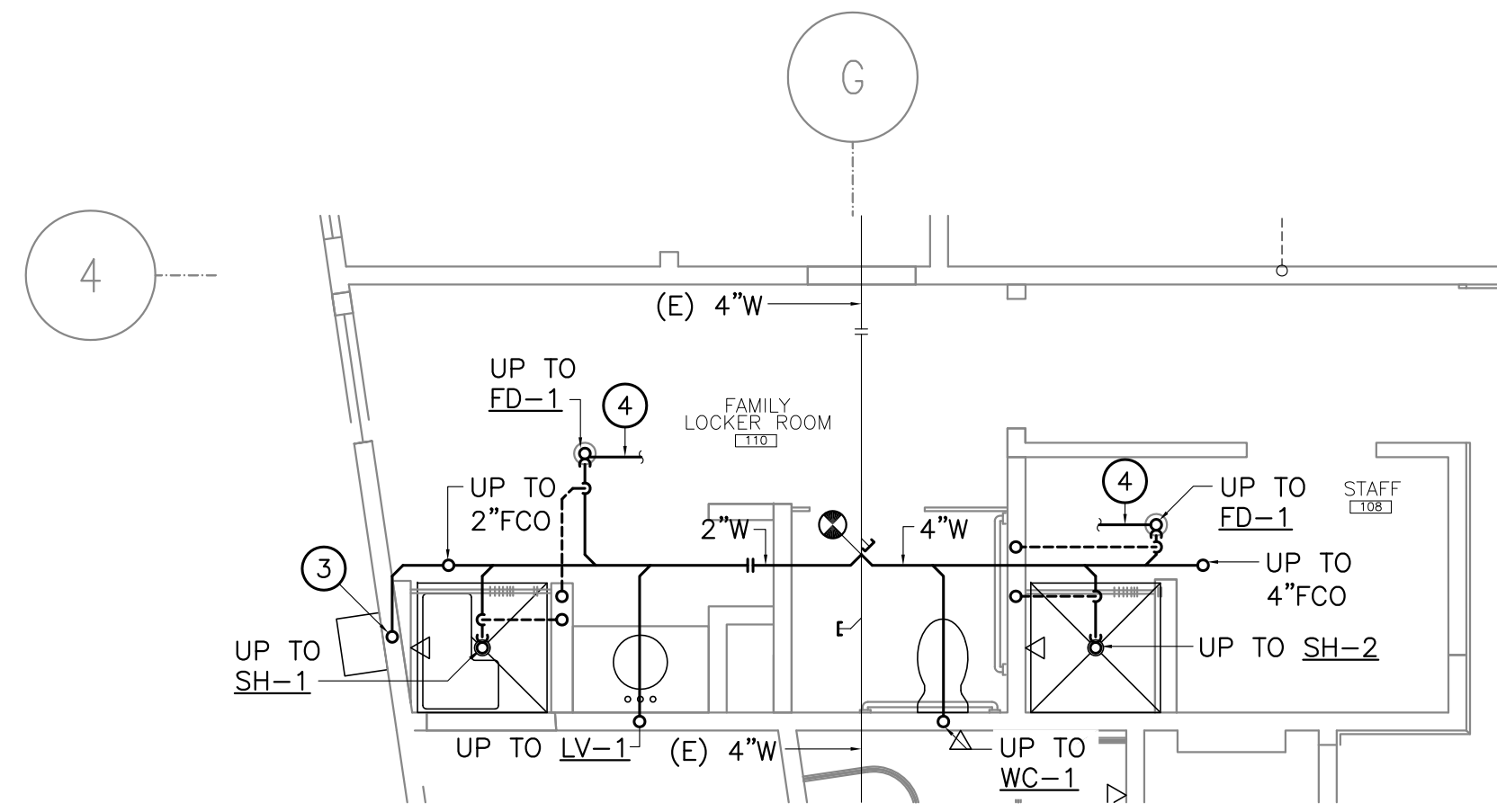
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DEMO PLUMBING  
ENLARGEMENT PLANS

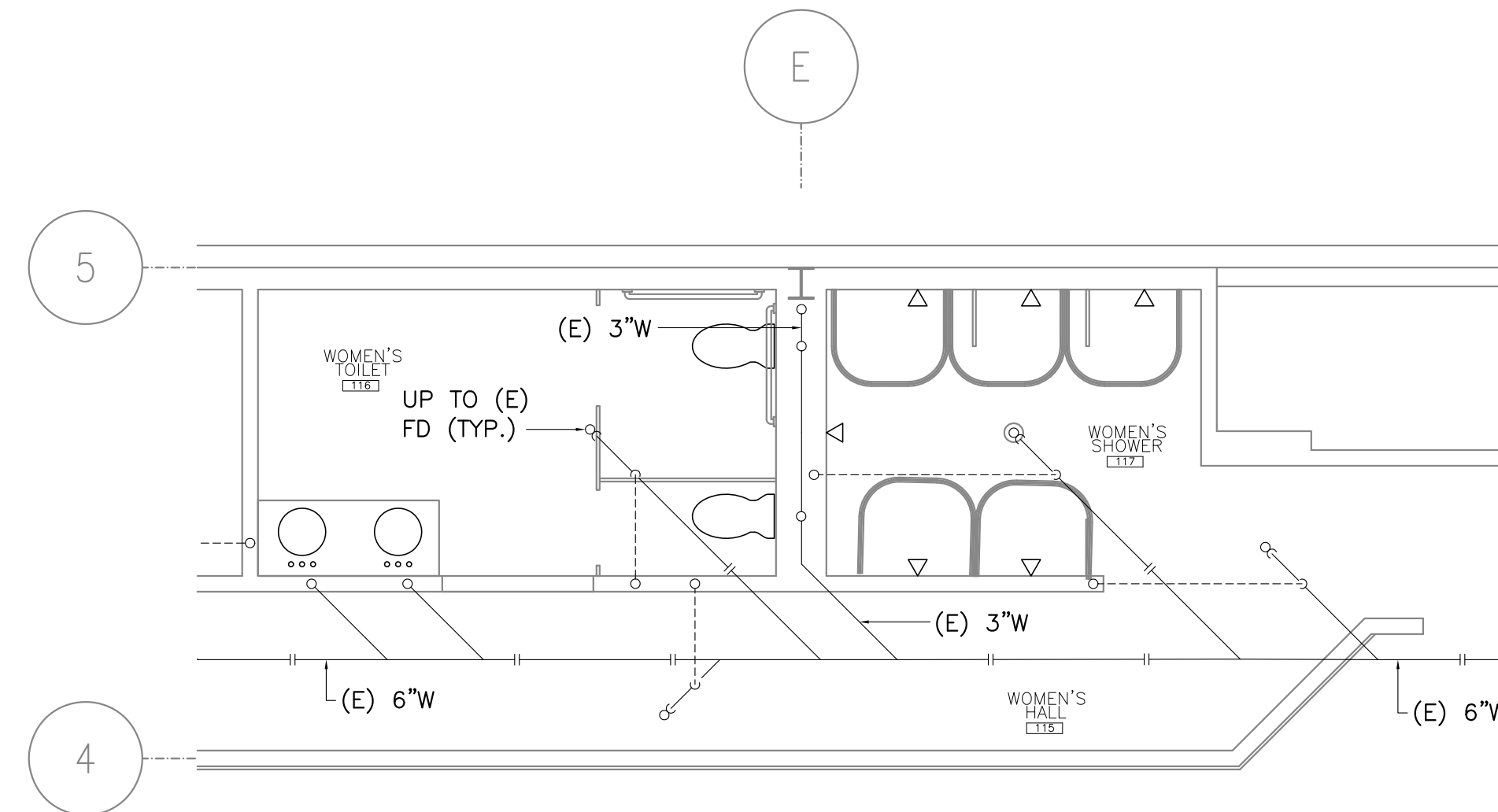
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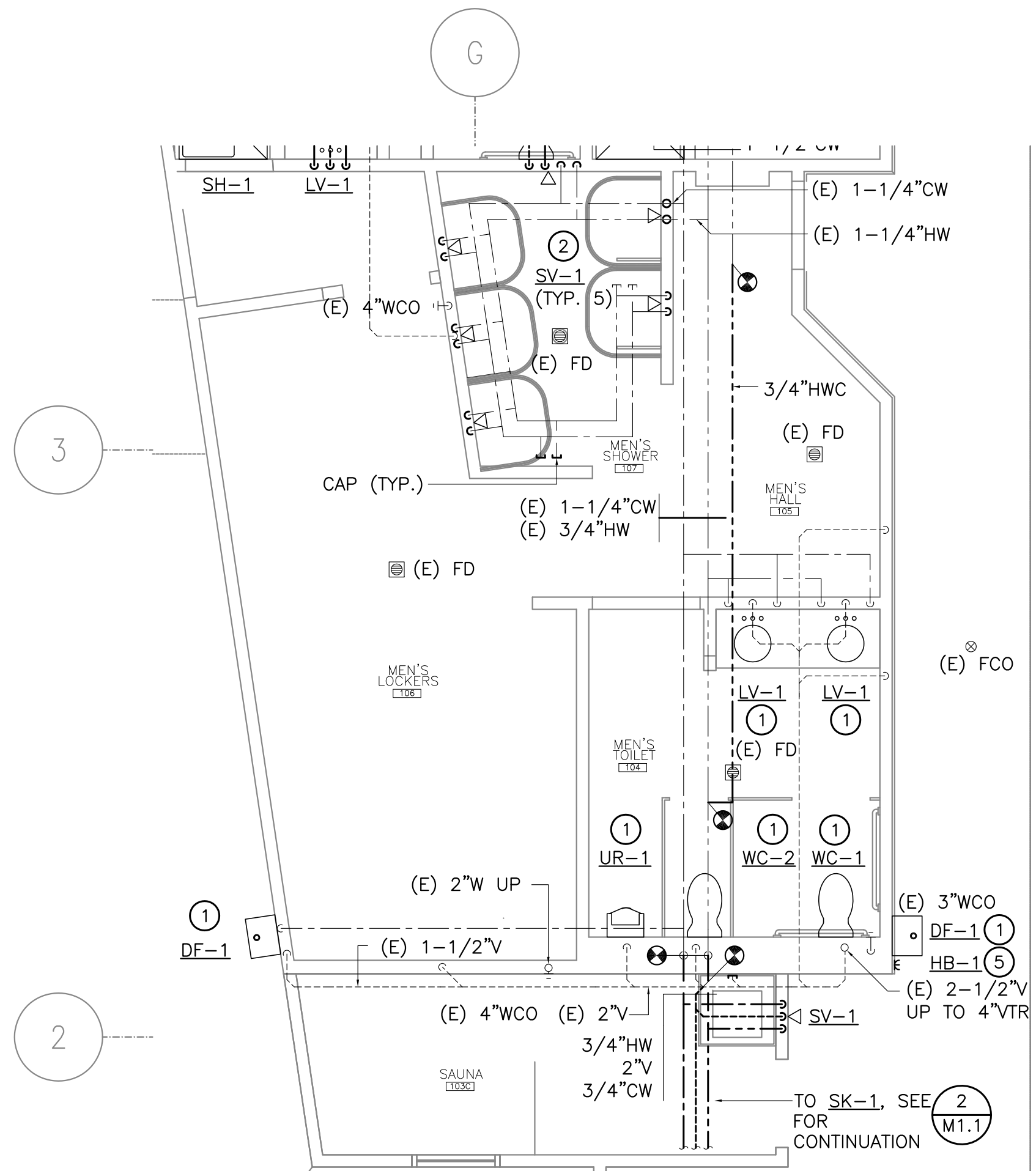
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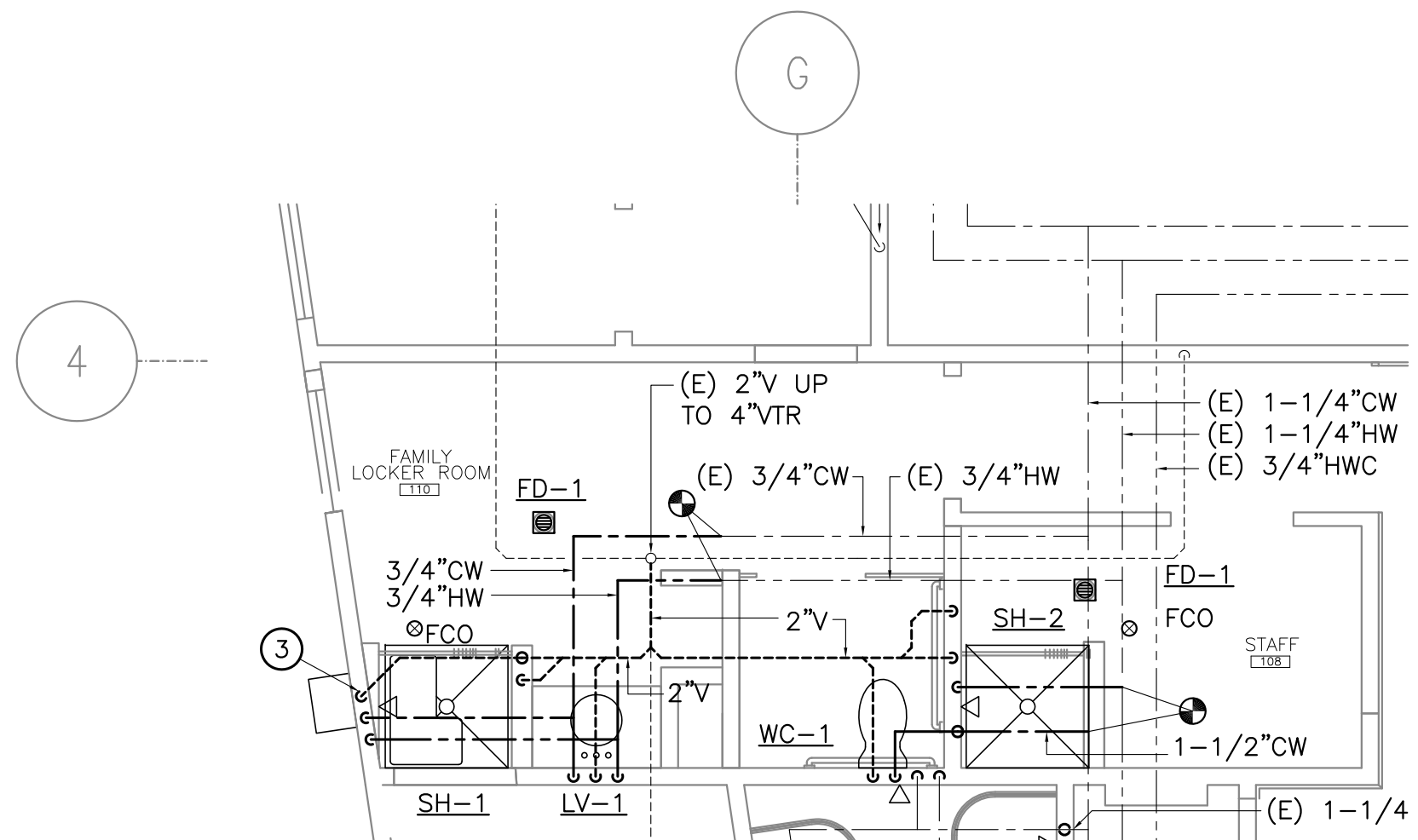
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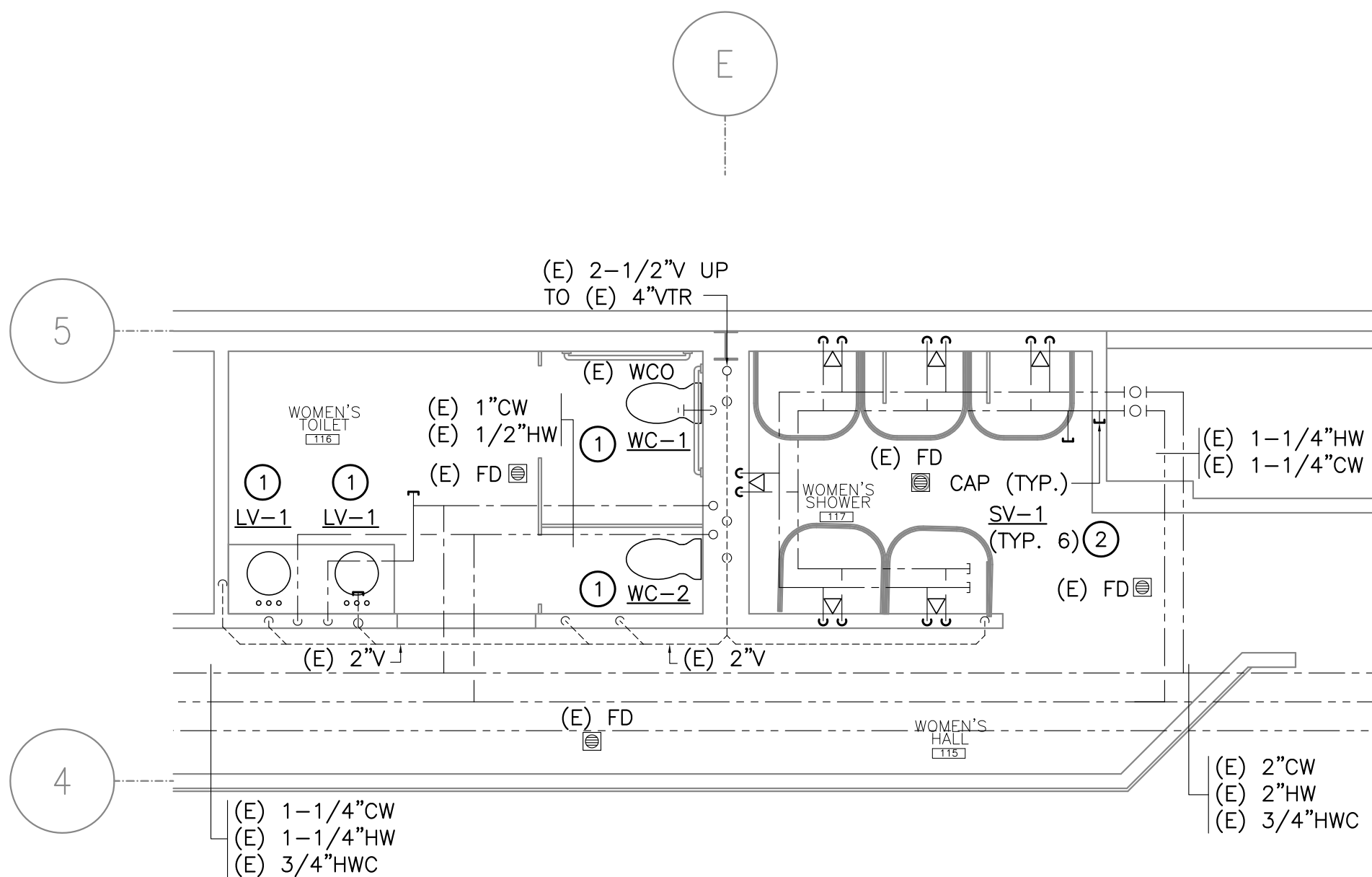
**3 NEW WOMEN'S UNDERFLOOR PLUMBING PLAN**  
M1.3 SCALE: 1/4" = 1'-0"



**4 NEW MEN'S 1ST FLOOR PLUMBING PLAN**  
M1.3 SCALE: 1/4" = 1'-0"



**5 FAMILY 1ST FLOOR PLUMBING PLAN**  
M1.3 SCALE: 1/4" = 1'-0"



**6 NEW WOMEN'S 1ST FLOOR PLUMBING PLAN**  
M1.3 SCALE: 1/4" = 1'-0"

## SHEET NOTES

- EXISTING SYSTEMS SHOWN ON THE DRAWINGS ARE MOSTLY FROM RECORD DRAWINGS. ACTUAL SYSTEMS MAY VARY FROM THE INFORMATION INDICATED ON THE DRAWINGS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, LOCATIONS AND SIZES BEFORE START OF WORK.
- PIPING AND EQUIPMENT SHOWN LIGHT IS EXISTING, INSTALLED UNDER PREVIOUS PROJECTS.
- BRANCH PIPING TO INDIVIDUAL PLUMBING FIXTURES SHALL EQUAL THE SIZE INDICATED ON THE PLUMBING FIXTURE SCHEDULE UNLESS OTHERWISE INDICATED.
- PROVIDE CLEANOUTS ON ALL INDIVIDUAL SINK RISERS.
- CONTRACTOR SHALL CUT AND REPAIR SLAB TO MATCH EXISTING WHEN DEMOLISHED TO MODIFY TO THE WASTE PIPING AS PART OF THIS REMODEL.
- CONTRACTOR SHALL PATCH AND REPAIR WALLS AND CEILINGS TO MATCH EXISTING WHEN DEMOLISHED TO MODIFY TO THE WATER AND VENT PIPING AS PART OF THIS REMODEL.
- REMODEL SPRINKLER SYSTEM AS REQUIRED FOR NEW FLOOR PLAN PER NFPA13, SEE SPECIFICATIONS.

## KEY NOTES

- CONNECT FIXTURE TO EXISTING WASTE, VENT, COLD, AND HOT WATER AS REQUIRED BY PLUMBING FIXTURE SCHEDULE. PROVIDE NEW WALL CARRIER AS REQUIRED.
- CONNECT SHOWER HEAD TO EXISTING HOT AND COLD WATER AS REQUIRED BY PLUMBING FIXTURE SCHEDULE. MODIFY PIPING AS REQUIRED FOR NEW FIXTURE LOCATION.
- 1-1/4" WASTE AND VENT TO SWIMSUIT WATER EXTRACTOR. PROVIDE AIR GAP PER UPC 2009 AND INSTALL PER MANUFACTURER'S REQUIREMENTS. SEE ARCHITECTURAL FOR PRODUCT SPECIFICATION.
- 1/2" CW TO TRAP PRIMER, SEE 3/M4.1 FOR DETAIL.
- CONNECT HOSE BIBB COLD WATER BRANCH PIPING AS REQUIRED BY PLUMBING FIXTURE SCHEDULE. MODIFY PIPING AS REQUIRED NEW FIXTURE LOCATION.

**CITY OF UNALASKA - AQUATICS CENTER IMPROVEMENTS**  
55 EAST BROADWAY  
UNALASKA, ALASKA

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| Checked | CCH | Job No. | 2015.002   |

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PLUMBING  
ENLARGEMENT  
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|           |          |
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| <b>M1</b> | <b>3</b> |

**IIZA**  
ENGINEERING SOLUTIONS  
Mechanical & Electrical Consulting Engineers  
113 W. Northern Lights Blvd., Suite 240  
Anchorage, Alaska 99503  
Tel. (907) 562-1012 Fax (907) 562-1013

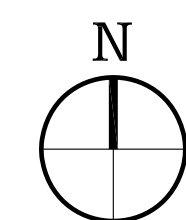
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FULL SIZE CONTRACT DOCUMENT 30" x 42"  
95% REVIEW SET



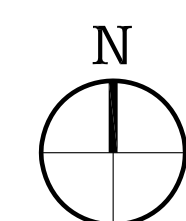


1. EXISTING SYSTEMS SHOWN ON THE DRAWINGS ARE MOSTLY FROM RECORD DRAWINGS. ACTUAL SYSTEMS MAY VARY FROM THE INFORMATION INDICATED ON THE DRAWINGS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, LOCATIONS AND SIZES BEFORE START OF WORK.
2. PIPING AND EQUIPMENT SHOWN LIGHT IS EXISTING, INSTALLED UNDER PREVIOUS PROJECTS. DEMO IS SHOWN DARK-DASHED.
3. BRANCH PIPING TO INDIVIDUAL TERMINAL HEATING UNITS SHALL BE ¾" UNLESS OTHERWISE INDICATED.

- ① DEMOLISH CABINET UNIT HEATER AND THERMOSTAT. MODIFY PIPING AS NECESSARY FOR RECONNECTION TO NEW KICK SPACE HEATER.
- ② DEMOLISH BASEBOARD TO EXTENT SHOWN. MODIFY PIPING AND APPURTENANCES AS REQUIRED FOR REMAINING BASEBOARD TO OPERATE.
- ③ BALANCE EXISTING TERMINAL UNIT TO FLOW INDICATED.
- ④ UP TO PRIMARY AND BACK UP PUMP SERVING POOL HEAT EXCHANGERS AND SOME TERMINAL UNITS. BALANCE TO FLOW INDICATED.
- ⑤ UP TO EXISTING HRV COIL. BALANCE COIL TO 22 GPM.
- ⑥ FOR KS-1 VALVES, COORDINATE LOCATION WITH ARCHITECT.
- ⑦ PROVIDE NEW PRESSURE DIFFERENTIAL SENSOR TO CONTROL HEATING PUMP VFD.



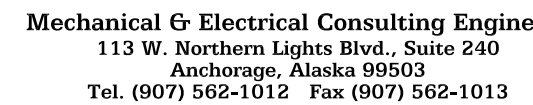
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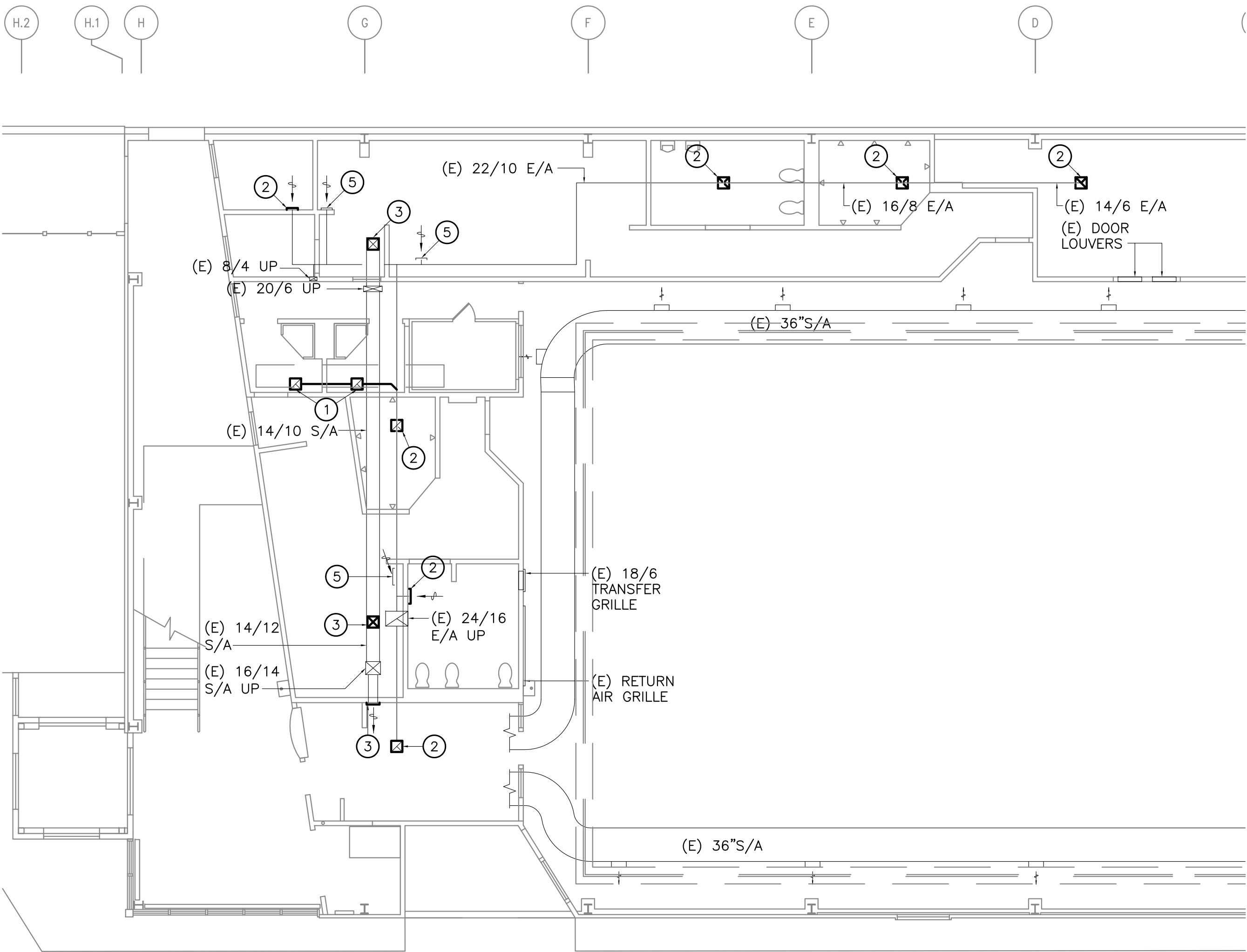
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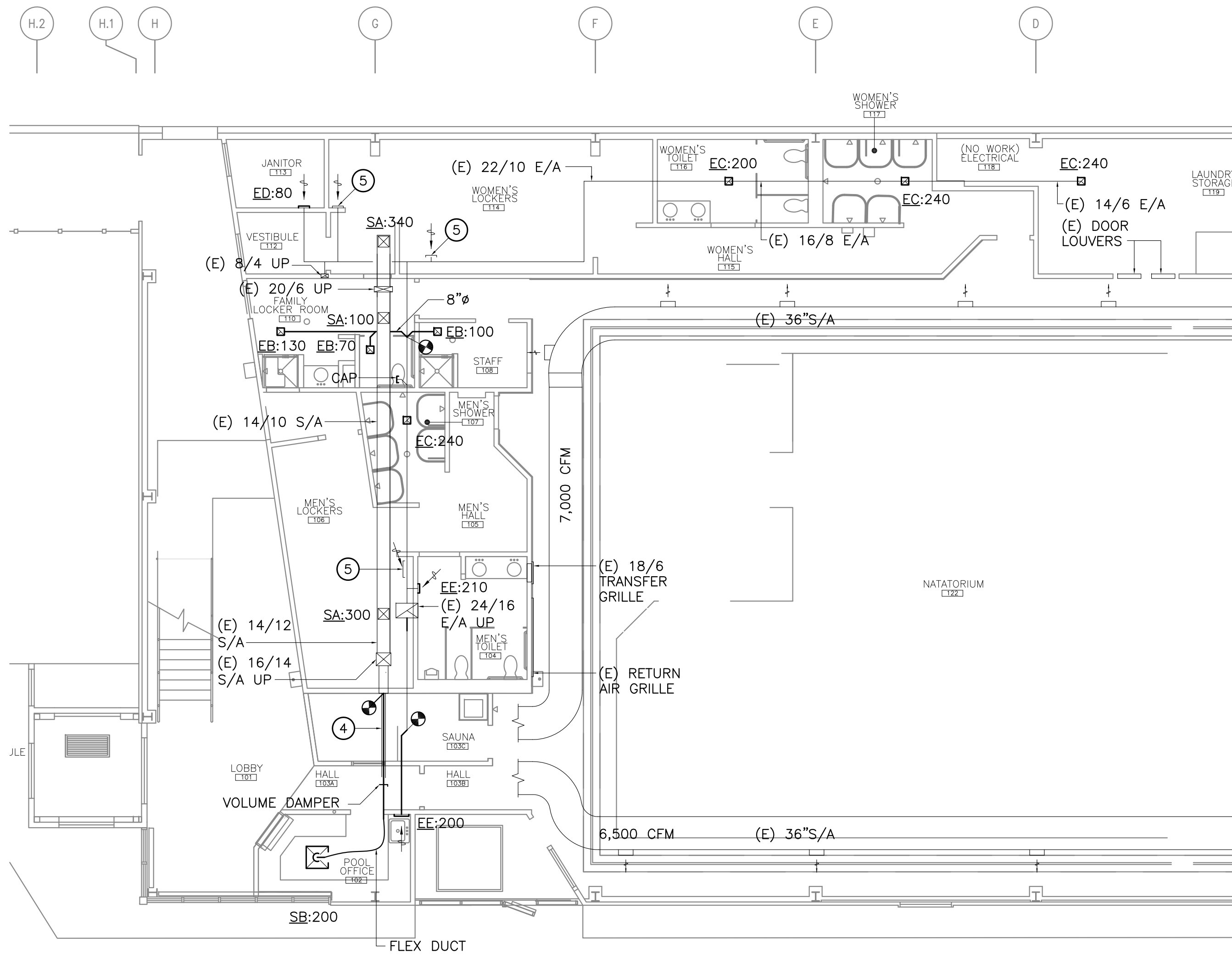
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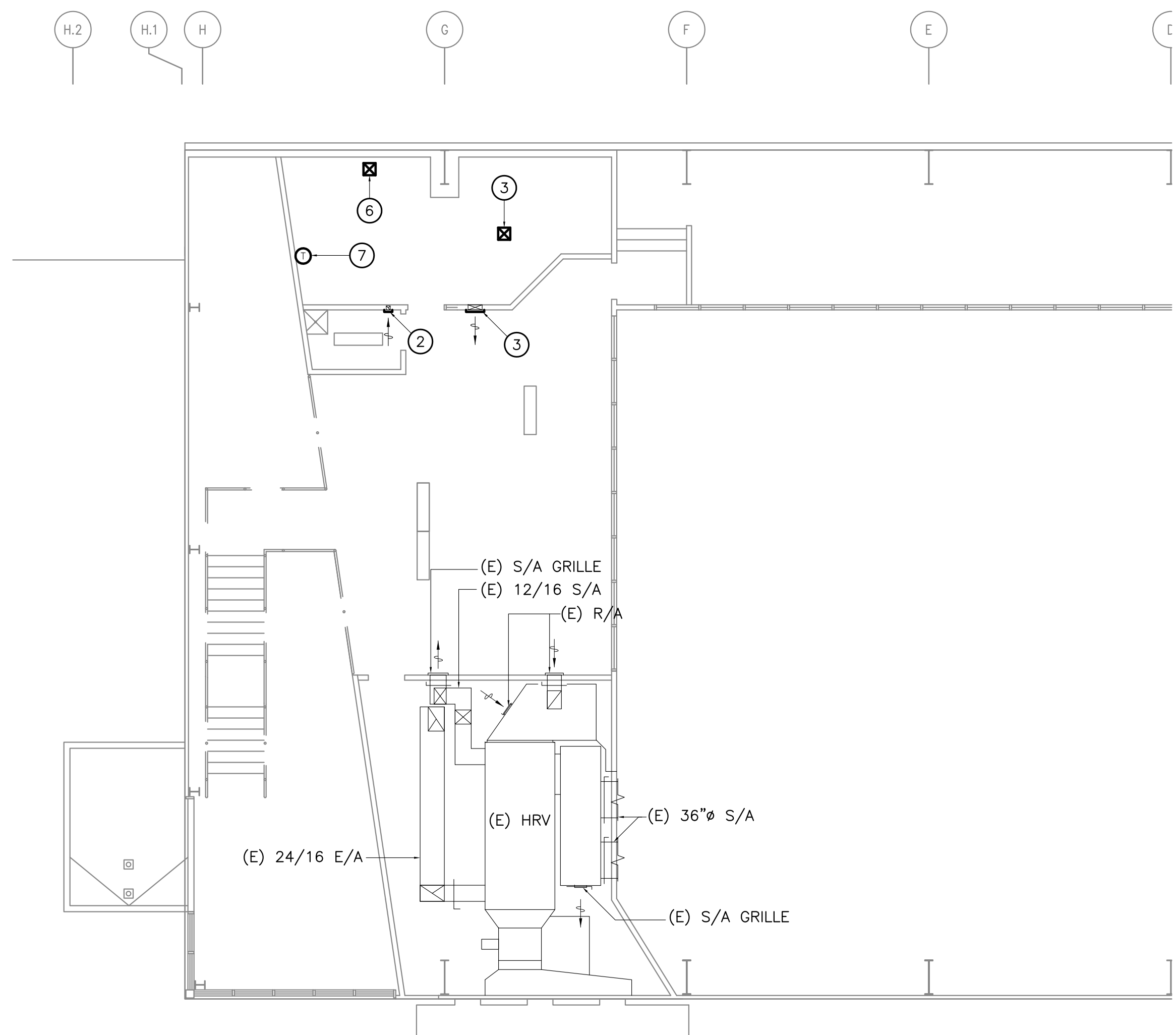
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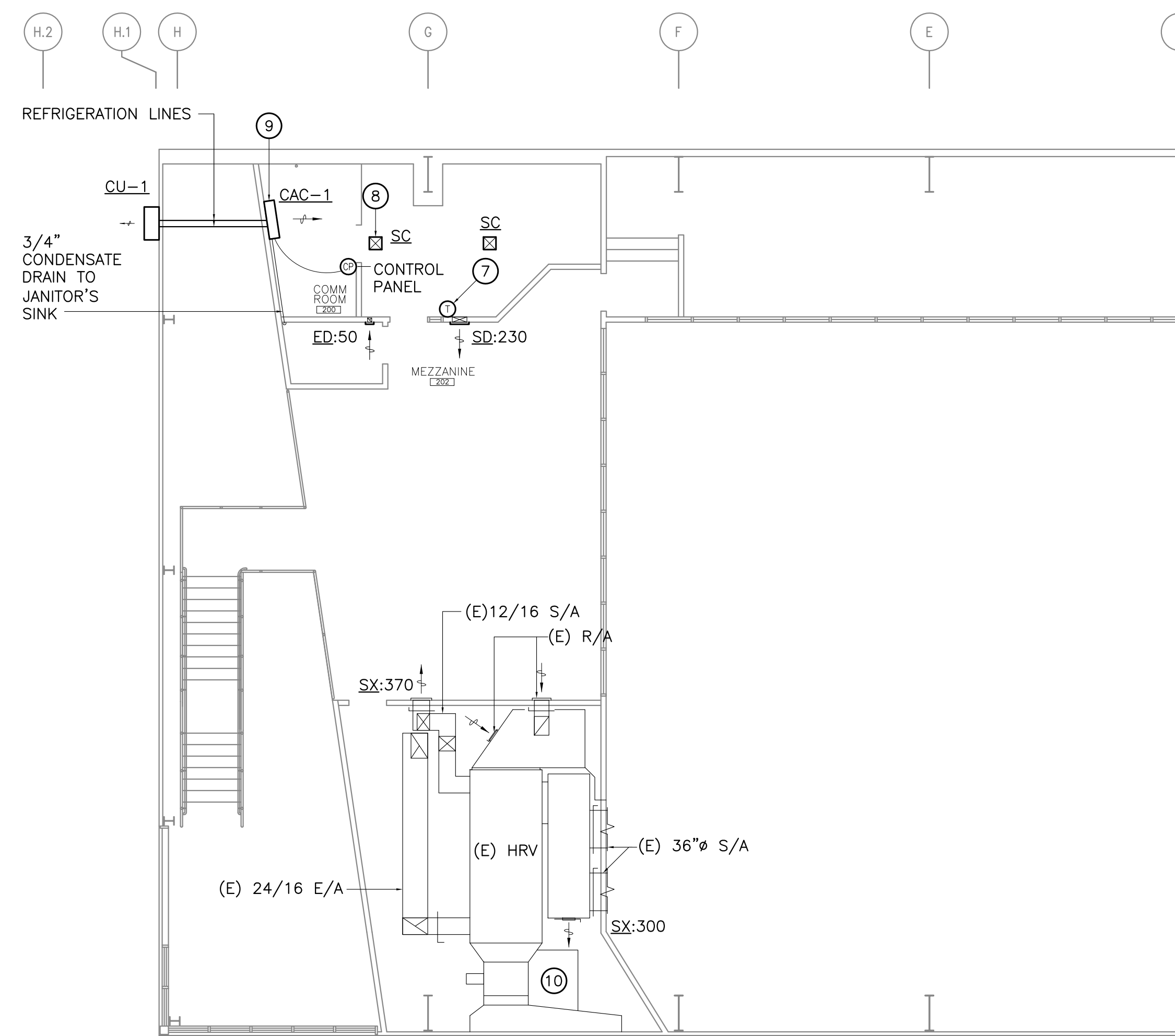
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M3.1 SCALE: 1/8" = 1'-0"



**2 1ST FLOOR VENTILATION PLAN**  
M3.1 SCALE: 1/8" = 1'-0"



**3 2ND FLOOR VENTILATION DEMOLITION PLAN**  
M3.1 SCALE: 1/8" = 1'-0"



**4 2ND FLOOR VENTILATION PLAN**  
M3.1 SCALE: 1/8" = 1'-0"

## SHEET NOTES

- EXISTING SYSTEMS SHOWN ON THE DRAWINGS ARE MOSTLY FROM RECORD DRAWINGS. ACTUAL SYSTEMS MAY VARY FROM THE INFORMATION INDICATED ON THE DRAWINGS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, LOCATIONS AND SIZES BEFORE START OF WORK.
- VENTILATION SYSTEM TO BE PROTECTED DURING CONSTRUCTION PER SMACMA.
- DUCTWORK AND EQUIPMENT SHOWN LIGHT IS EXISTING, INSTALLED UNDER PREVIOUS PROJECTS. DUCTWORK AND EQUIPMENT SHOWN DARK AND DASHED ARE TO BE DEMOLISHED.
- NEW DIFFUSERS WHERE SELECTED TO MATCH THE SIZE OF EXISTING BASED ON INFORMATION FROM EXISTING DRAWINGS. CONTRACTOR SHALL FIELD VERIFY SIZE BEFORE ORDERING.
- BRANCH DUCTWORK TO INDIVIDUAL DIFFUSERS SHALL EQUAL THE DIFFUSER NECK SIZE UNLESS OTHERWISE INDICATED. PROVIDE FLEX DUCT CONNECTION AT DIFFUSERS WHERE INDICATED ON PLANS.

## KEY NOTES

- DEMOLISH EXHAUST AIR GRILLES AND DUCT WORK TO EXTENT SHOWN. CAP ABANDONED DUCT.
- REMOVE EXISTING EXHAUST AIR GRILLE.
- REMOVE EXISTING SUPPLY AIR DIFFUSER.
- INSULATE SUPPLY DUCTWORK ABOVE SAUNA.
- (E) GRILLE IN CHASE TO REMAIN IN PLACE. NO AIRFLOW ADJUSTMENT.
- REMOVE AND RELOCATE EXISTING SUPPLY AIR OUTLET. PATCH AND REPAIR CEILING TO MATCH EXISTING.
- REMOVE AND RELOCATE THERMOSTAT CONTROLLING EXISTING SUPPLY FAN.
- NEW LOCATION FOR SUPPLY AIR OUTLET. PROVIDE NEW DIFFUSER, FLEX DUCT AND BRANCH DUCTWORK AS REQUIRED FOR RELOCATION.
- COORDINATE LOCATION OF COOLING AIR DISTRIBUTION UNIT WITH OWNER AND THE LOCATION OF IT EQUIPMENT IN ROOM.
- INSTALL PRESSURE SENSOR IN OUTSIDE AIR INTAKE DUCT ON THE INLET SIDE OF THE SUPPLY FAN. IN CASE OF BLOCKAGE OF THE OUTSIDE AIR INTAKE, HRV FAN SHALL SHUT OFF AND ALARM AT DDC.

# CITY OF UNALASKA - AQUATICS CENTER IMPROVEMENTS 55 EAST BROADWAY UNALASKA, ALASKA

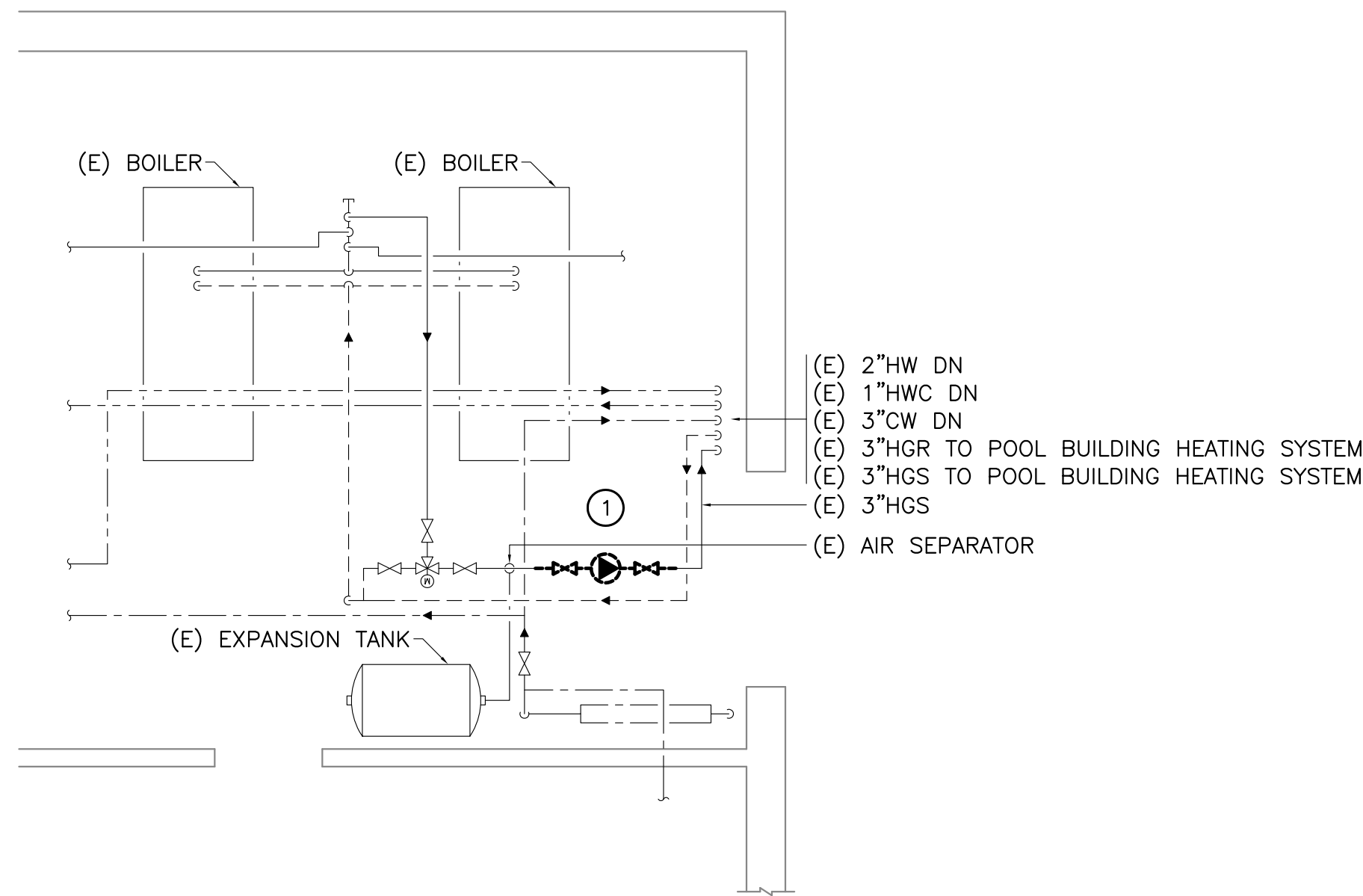
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| AK      | 11/15/2015 |
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| CCH     | 2015.002   |

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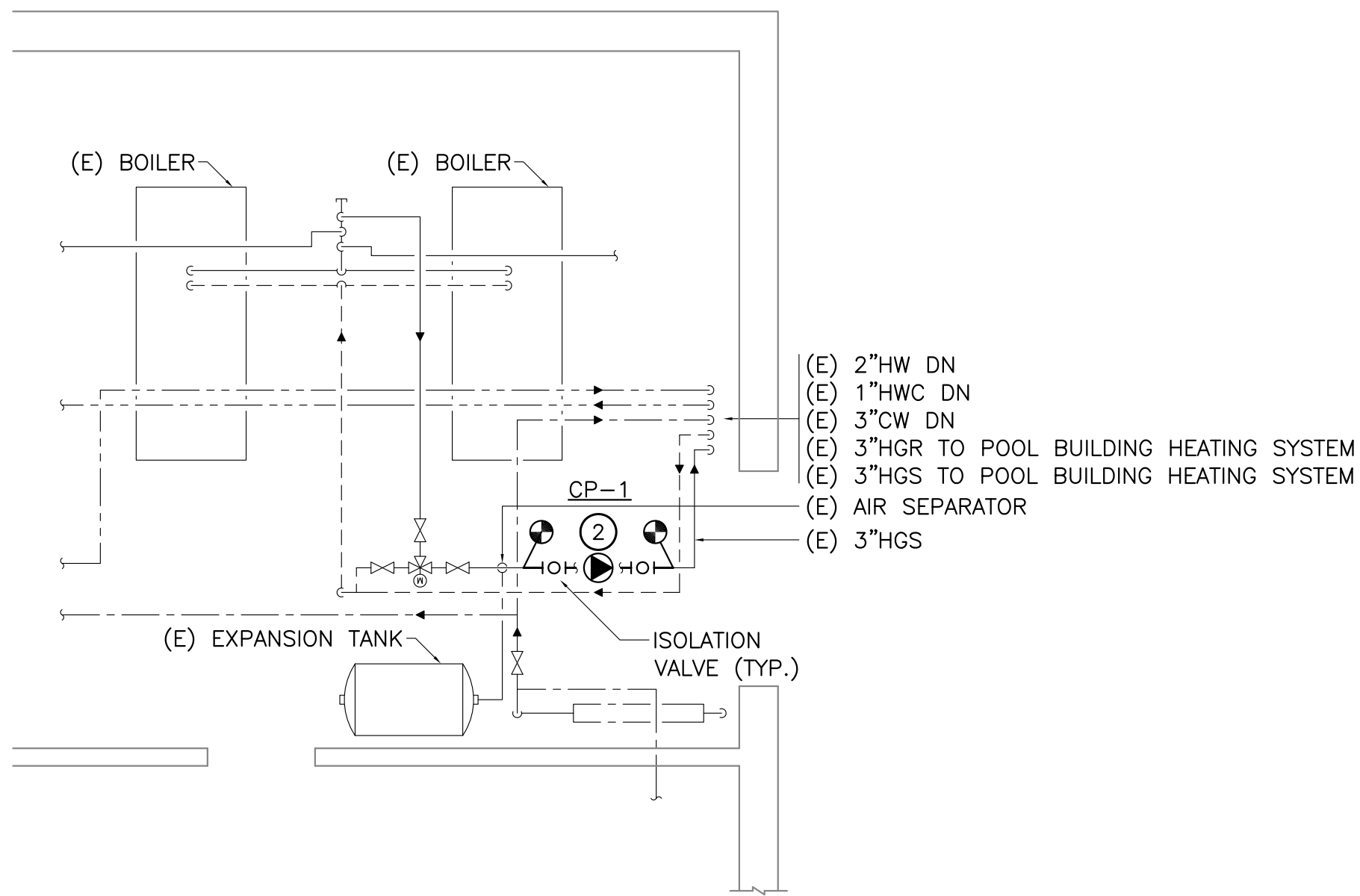
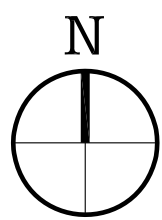
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VENTILATION  
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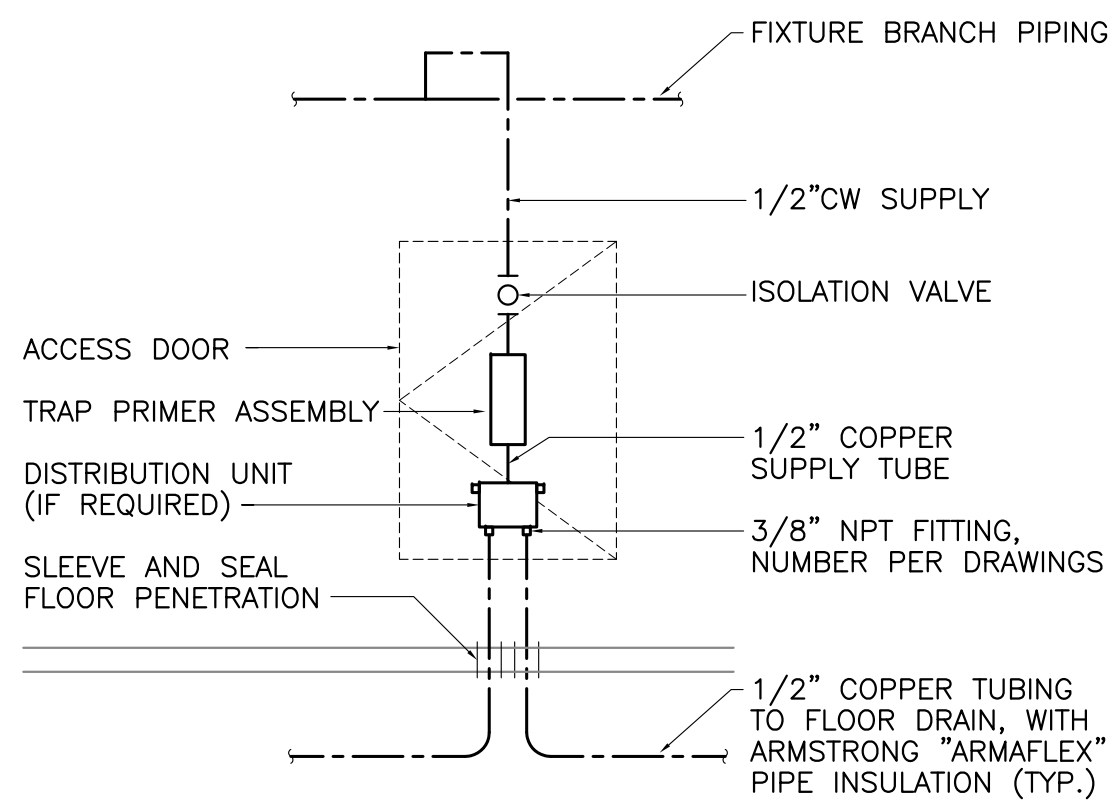
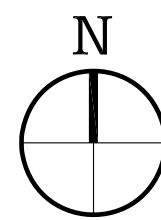




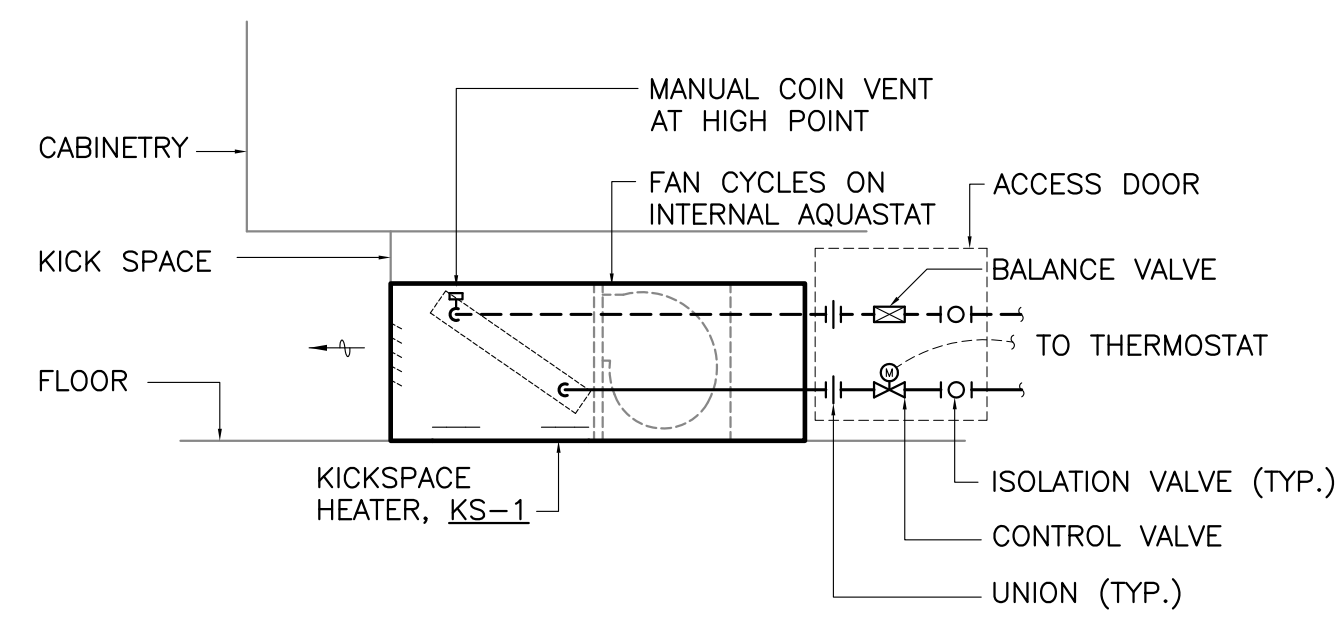
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M4.1 SCALE: 1/4" = 1'-0"



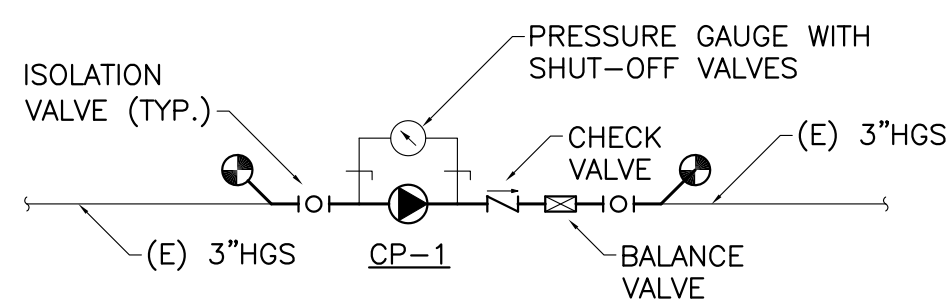
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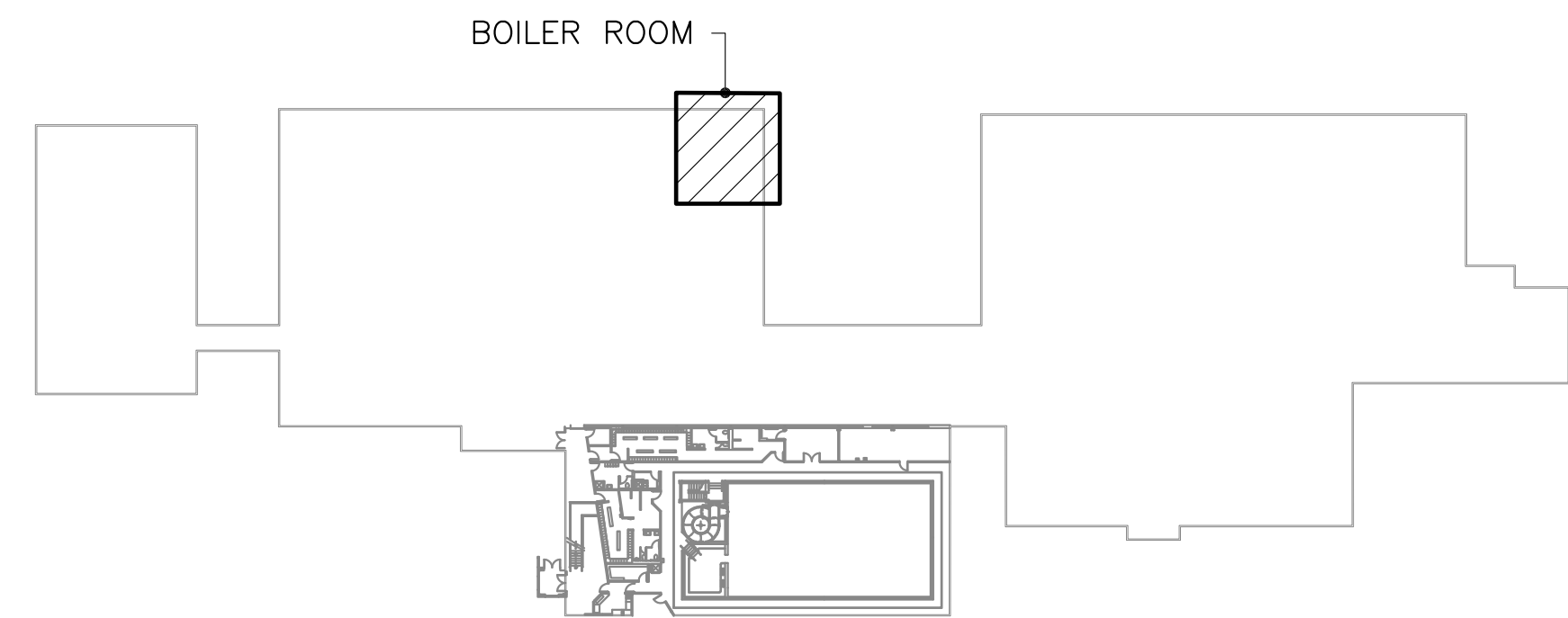
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**4 KICK SPACE HEATER DETAIL**  
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**5 HEATING PUMP PIPING DETAIL**  
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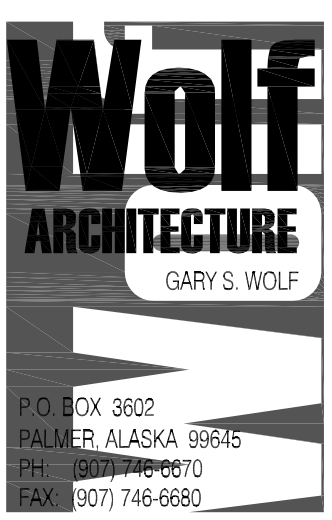
**KEYPLAN**

## SHEET NOTES

- EXISTING SYSTEMS SHOWN ON THE DRAWINGS ARE MOSTLY FROM RECORD DRAWINGS. ACTUAL SYSTEMS MAY VARY FROM THE INFORMATION INDICATED ON THE DRAWINGS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, LOCATIONS AND SIZES BEFORE START OF WORK.
- PIPING AND EQUIPMENT SHOWN LIGHT IS EXISTING, INSTALLED UNDER PREVIOUS PROJECTS. DEMO IS SHOWN DARK-DASHED.

## KEY NOTES

- REMOVE EXISTING HEATING CIRCULATION PUMP, ISOLATION VALVES, AND PIPING TO EXTENT INDICATED.
- CONNECT 3"HGS TO EXISTING 3"HGS. SEE 5/M4.1 FOR PUMP DETAIL.



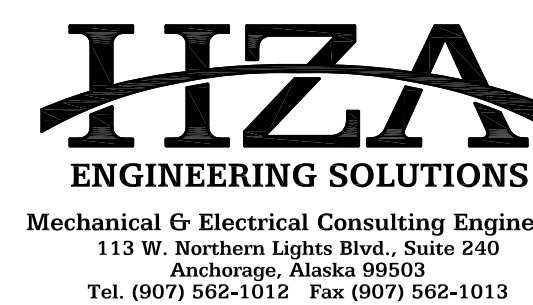
**CITY OF UNALASKA - AQUATICS CENTER IMPROVEMENTS**  
**55 EAST BROADWAY**  
**UNALASKA, ALASKA**

| Drawn   | Date       |
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| AK      | 11/15/2015 |
| Checked | Job No.    |
| CCH     | 2015.002   |

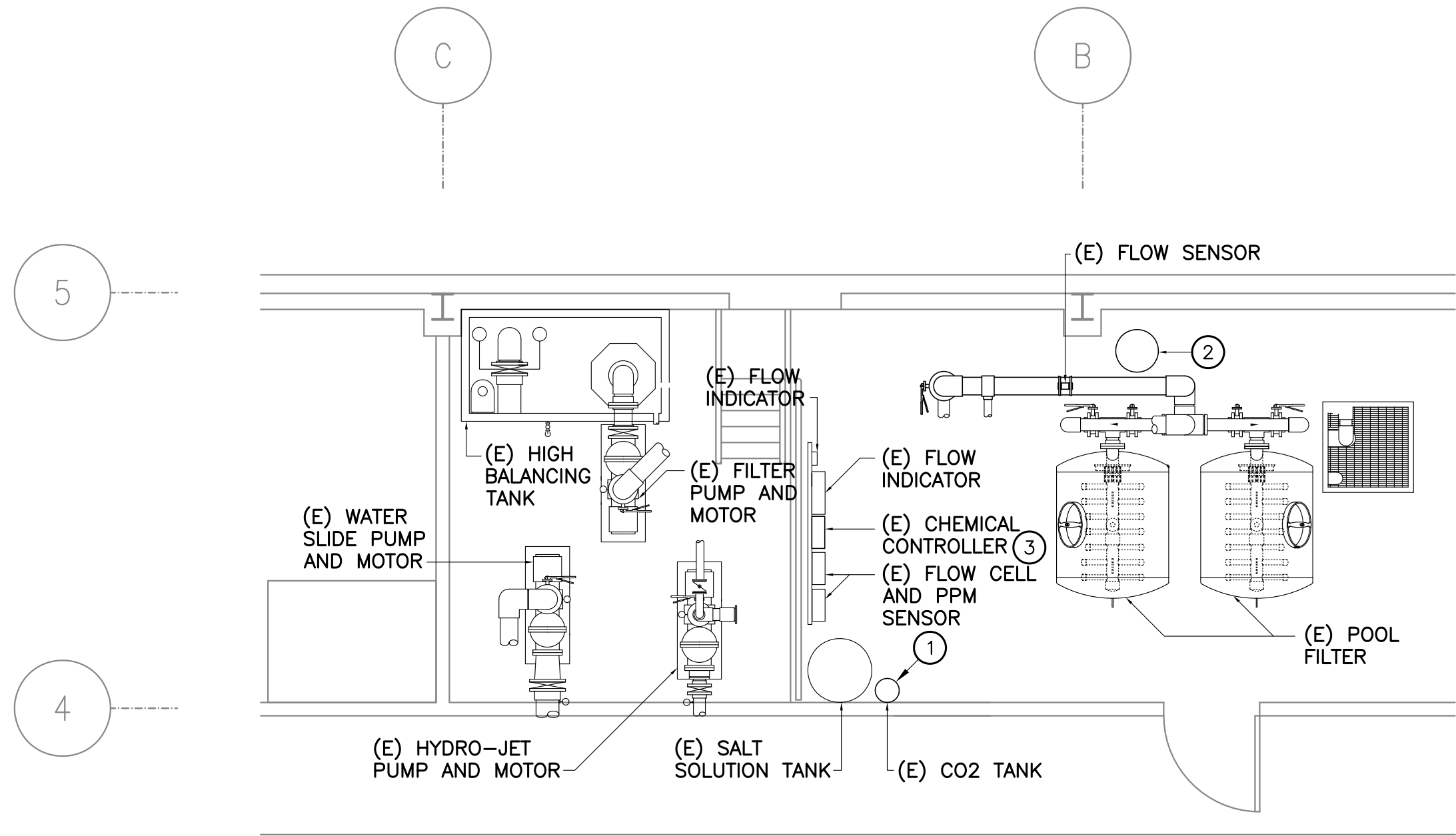
| Revision | Date |
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**Sheet Contents**  
BOILER ROOM  
PLANS AND  
DETAILS

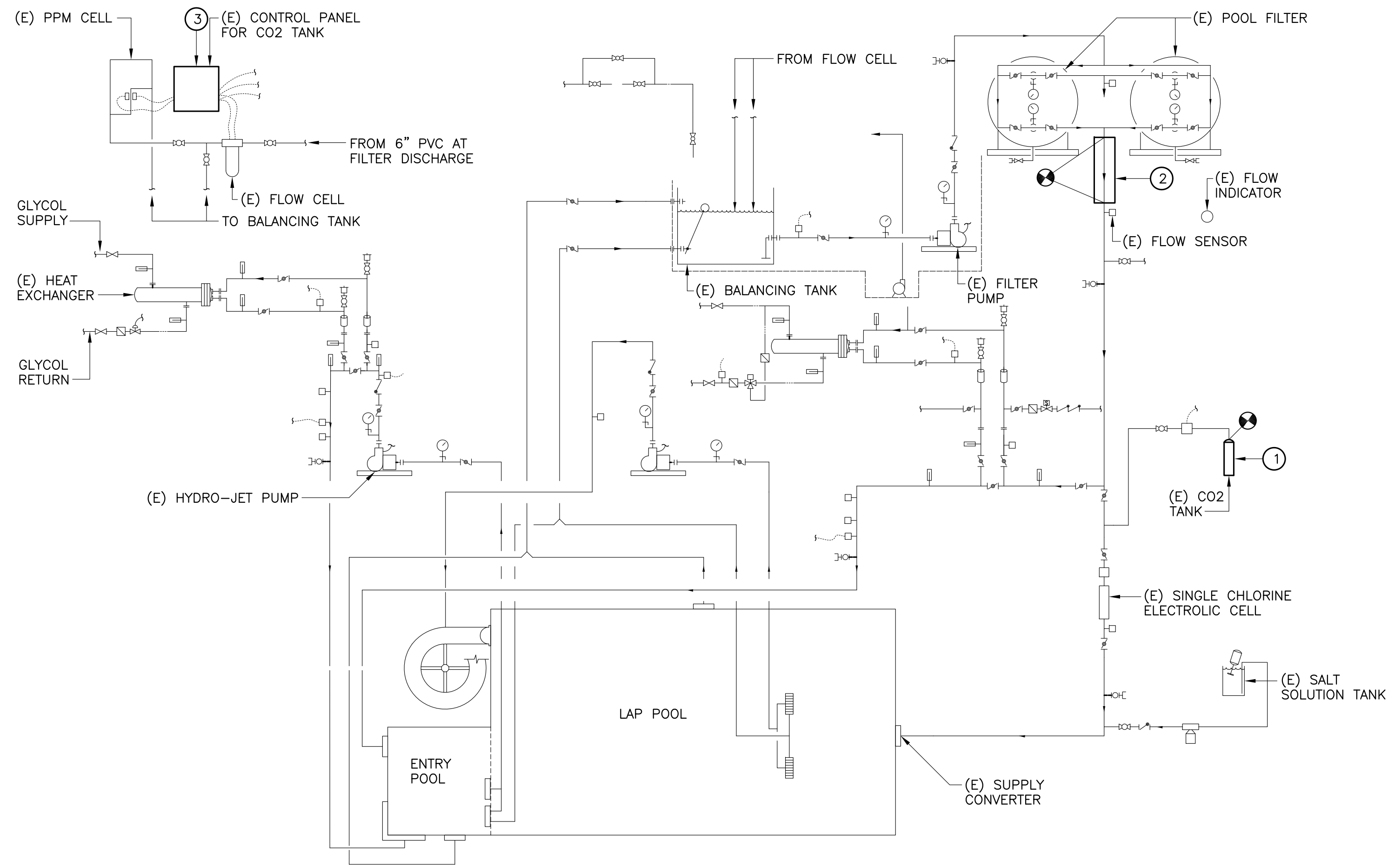
| Category  | Sheet    |
|-----------|----------|
| <b>M4</b> | <b>1</b> |



HALF SIZE CONTRACT DOCUMENT 17" x 22"  
FULL SIZE CONTRACT DOCUMENT 30" x 42"  
95% REVIEW SET



1 FILTER ROOM EQUIPMENT  
SP.1 SCALE: 1/4" = 1'-0"



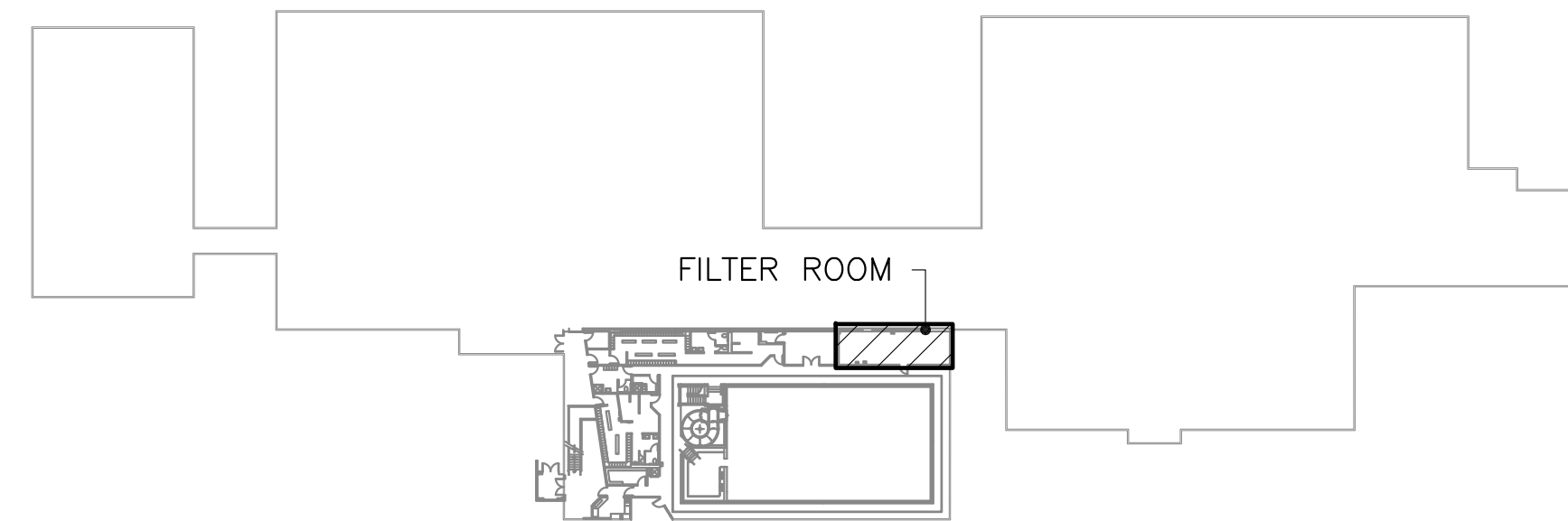
2 POOL SYSTEMS DIAGRAM  
SP.1 SCALE: NONE

SHEET NOTES

- EXISTING SYSTEMS SHOWN ON THE DRAWINGS ARE FROM RECORD DRAWINGS. ACTUAL SYSTEMS MAY VARY FROM THE INFORMATION INDICATED ON THE DRAWINGS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS, LOCATIONS AND SIZES BEFORE START OF WORK.
- POOL EQUIPMENT AND WORK RELATED TO THE POOL EQUIPMENT IS SPECIFIED IN SPECIFICATIONS DIVISION 13.

KEY NOTES

- REPLACE CO2 SYSTEM WITH BUFFERED ACID SYSTEM WITH CHEMISTRY CONTROLLER AND PERISTALTIC PUMP. INSTALL PER MANUFACTURER'S REQUIREMENT.
- NEW SSUV SERIES ULTRAVIOLET SYSTEM. INSTALL PER MANUFACTURER'S REQUIREMENT.
- REPLACE EXISTING ACU-TROL CONTROLLER WITH NEW RSC3-VF CHEMISTRY CONTROLLER. INSTALL PER MANUFACTURER'S REQUIREMENT.



KEYPLAN

CITY OF UNALASKA - AQUATICS CENTER IMPROVEMENTS  
55 EAST BROADWAY  
UNALASKA, ALASKA



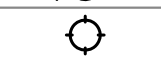



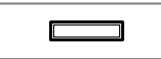













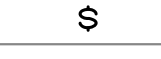

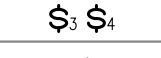

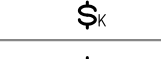

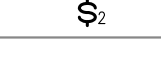







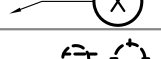












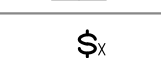
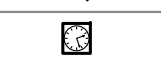




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Sheet Contents  
FILTER ROOM  
EQUIPMENT  
AND POOL  
PIPING  
DIAGRAM

|          |       |
|----------|-------|
| Category | Sheet |
| SP       | 1     |



| ELECTRICAL SYMBOLS LEGEND   |  |   |  |
|---|--|---|--|
|  | LIGHT FIXTURE -- SURFACE WALL MOUNTED  |  | PANEL  |
|  | LIGHT FIXTURE -- SURFACE MOUNTED   |  | DUPLEX RECEPTACLE  |
|  | LIGHT FIXTURE -- RECESSED MOUNTED  |  | GROUND FAULT CURRENT INTERRUPTER RECEPTACLE  |
|  | FLUORESCENT FIXTURE -- SURFACE MOUNTED 1'x4'                                       |  | QUADRAPLEX RECEPTACLE  |
|  | FLUORESCENT FIXTURE -- SURFACE MOUNTED 1'x2'                                       |  | JUNCTION BOX   |
|  | EXIT LIGHT -- CEILING MOUNTED  |  | DISCONNECT SWITCH  |
|  | EXIT LIGHT -- WALL MOUNTED   |  | FUSED DISCONNECT SWITCH  |
|  | SELF-CONTAINED EMERGENCY LIGHT   |  | COMBINATION MOTOR STARTER DISCONNECT   |
|  | REMOTE HEAD ASSOCIATED W/ EMERGENCY LIGHT  |  | FRACTIONAL HP MOTOR SWITCH   |
|  | FIXTURE IDENTIFICATION (LETTER INDICATES TYPE)                                     |  | MOTOR  |
|  | SINGLE POLE SWITCH   |  | FA SMOKE DETECTOR  |
|  | THREE WAY SWITCH AND FOUR WAY SWITCH   |  | FA HEAT DETECTOR (FIXED TEMP. NOTED)   |
|  | KEYED SWITCH   |  | FA HORN STROBE   |
|  | 2 BUTTON SWITCH, PUSH BUTTON TYPE  |  | FA MANUAL PULL STATION   |
|  | CONDUIT, CONCEALED   |  | BELL   |
|  | NUMBER AND SIZE OF WIRES (NO SLASHES = 3#12)                                       |  | GROUND FAULT CIRCUIT INTERRUPTER   |
|  | HOMERUN TO PANEL (PANEL AND CIRCUIT No.)   |  | E EXISTING FIXTURE OR DEVICE TO REMAIN   |
|  | NOTE TAG (No. INDICATES NOTE)  |  | R EXISTING FIXTURE TO BE RELOCATED   |
|  | DASHED SYMBOL = DEVICE TO BE REMOVED   |  | U.O.N. UNLESS OTHERWISE NOTED  |
|  | LIGHT SYMBOL = EXISTING DEVICE TO REMAIN   |  | WP WEATHERPROOF  |
|  | DARK SYMBOL = NEW DEVICE   |  | CLG FIXTURE MOUNTED ON CEILING   |
|  | ULTRASONIC OCCUPANCY SENSOR  |  | EM FIXTURE WITH EMERGENCY BATTERY BACK-UP  |
|  | CARD READER -- CARD LOCK DOOR ENTRY SYSTEM   |  | AC ABOVE COUNTER -- COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF OUTLETS DENOTED AS ABOVE COUNTER TO BE INSTALLED 6" ABOVE COUNTERS OR BACKSPLASHES, WHICHEVER IS HIGHER |
|  | PANIC EXIT DEVICE -- CARD LOCK DOOR ENTRY SYSTEM                                   |   |  |
|  | COMBINATION INTERCOM SPEAKER/CLOCK   |   |  |
|  | INTERCOM CALL-IN SWITCH  |   |  |
|  | MASTER TIME SYSTEM CLOCK   |   |  |
|  | SPEAKER  |   |  |
|  | CAMERA -- SURVEILLANCE SYSTEM  |   |  |
|  | TELECOMMUNICATION OUTLET -- #=QUANTITY OF JACKS (NO # REQUIRES TWO JACKS, TYPICAL) |   |  |

ADDITIVE ALTERNATES:

ADDITIVE ALTERNATE #1 -- NEW CARD LOCK DOOR ENTRY SYSTEM  
PROVIDE ALL EQUIPMENT, DEVICES, POWER, WIRING, INSTALLATION, AND CONNECTIONS FOR A NEW CARD LOCK DOOR ENTRY SYSTEM AS SHOWN ON THE REMODEL DRAWINGS AND IN THE SPECIFICATIONS.

ADDITIVE ALTERNATE #2 -- NEW CAMERA SURVEILLANCE SYSTEM  
PROVIDE ALL EQUIPMENT, DEVICES, POWER, WIRING, INSTALLATION, AND CONNECTIONS FOR A NEW CAMERA SURVEILLANCE SYSTEM AS SHOWN ON THE REMODEL DRAWINGS AND IN THE SPECIFICATIONS.

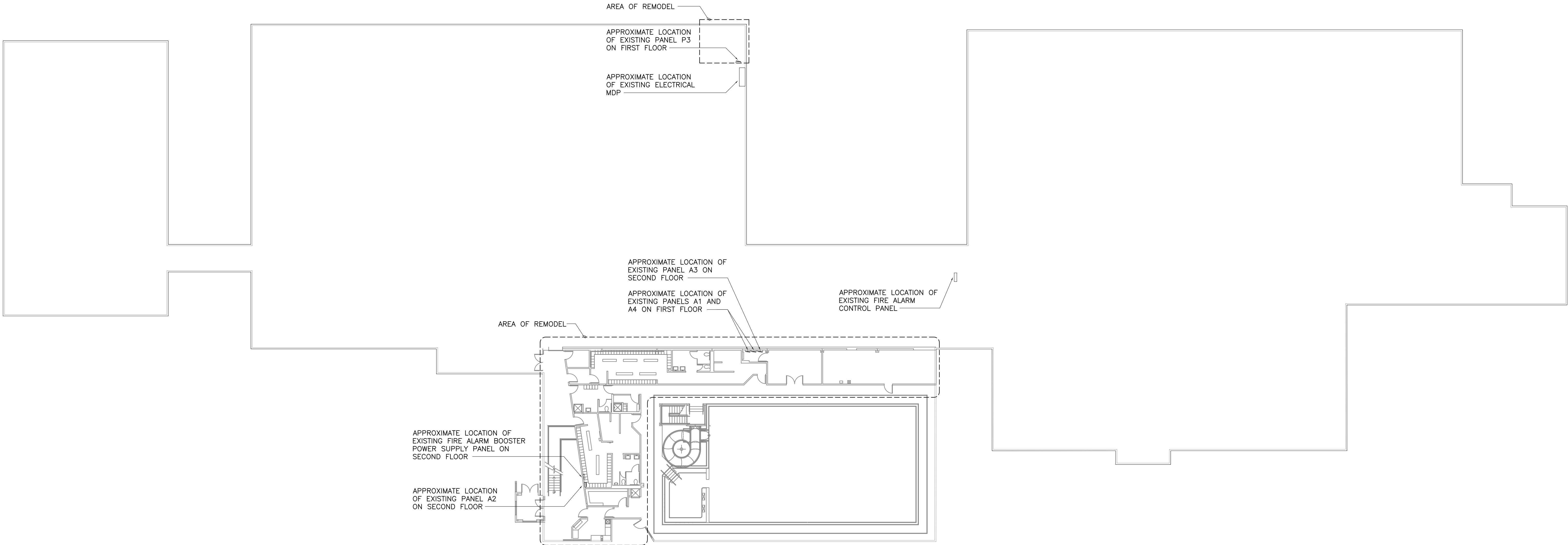
ADDITIVE ALTERNATE #3 -- NEW SOUND SYSTEM  
PROVIDE ALL EQUIPMENT, DEVICES, POWER, WIRING, INSTALLATION, AND CONNECTIONS FOR A NEW SOUND SYSTEM AS SHOWN ON THE REMODEL DRAWINGS AND IN THE SPECIFICATIONS.

ADDITIVE ALTERNATE #4 -- ICE MACHINE  
PROVIDE ALL NECESSARY POWER AND CONNECTIONS FOR THE ADDITION OF AN ICE MACHINE.

| LIGHTING FIXTURE SCHEDULE |   |   |          |          |          |                        |
|---------------------------|---|---|----------|----------|----------|------------------------|
| TYPE                      | MANUFACTURER AND MODEL NUMBER   | DESCRIPTION   | LAMP     |          | MOUNTING |                        |
|                           |   |   | TYPE     | QUANTITY | TYPE     | HEIGHT                 |
| A                         | COLUMBIA<br>#LXEM4-40ML-RA-EU-<br>(ELL14)                                   | 4FT LED FIXTURE WITH FIBERGLASS HOUSING, ENCLOSED/GASKETED (WET LOCATION), 4000K TEMPERATURE, MEDIUM LUMEN PACKAGE (5000 NOMINAL), UNIVERSAL VOLTAGE DRIVER, EMERGENCY BATTERY (120V) WHERE INDICATED           | 47W LED  | -        | SURFACE  | CEILING                |
| A2                        | COLUMBIA<br>#LXEM2-40ML-RA-EU   | 2FT LED FIXTURE WITH FIBERGLASS HOUSING, ENCLOSED/GASKETED (WET LOCATION), 4000K TEMPERATURE, MEDIUM LUMEN PACKAGE (4500 NOMINAL), UNIVERSAL VOLTAGE DRIVER   | 43W LED  | -        | SURFACE  | CEILING                |
| B                         | LITHONIA<br>#ST8-332-MVOLT-<br>GEB10IS-LP841-(EL14)                         | VOLUMETRIC LUMINAIRE, 4', WITH FLUORESCENT LAMPS, 4100K COLOR TEMPERATURE, PROVIDE EMERGENCY BATTERY (120V) WHERE SHOWN.  | F32/T8   | 3        | SURFACE  | CEILING                |
| C                         | PROVIDED UNDER DIVISION 13 (SECTION 13030) ELECTRICAL CONTRACTOR TO INSTALL | RECESSED MOUNTED VAPOR TIGHT FIXTURE WITH MOISTURE SEAL GASKET, WET LOCATION LISTING, SUITABLE FOR LOCATION & OPERATION WITHIN A SAUNA, 120V  | 20W HAL  | 1        | RECESSED | CEILING                |
| D                         | KIRLIN<br>#LRR-07462-<br>43(11W)-41K  | 7" DIAMETER APERTURE RECESSED SEALED/GASKETED LED DOWNLIGHT W/ WET LOCATION LISTING, RUSTPROOF TRIM AND HOUSTING, WHITE TRIM, UNIVERSAL VOLTAGE POWER SUPPLY, 11WATT/800 LUMEN PACKAGE, 4100K COLOR TEMPERATURE | 11W LED  | -        | RECESSED | CEILING                |
|                           | LITHONIA<br>#ELM618-RO  | SELF CONTAINED EMERGENCY LIGHTING UNIT WITH MAINTENANCE FREE LEAD CALCIUM BATTERY, WITHOUT LAMP HEADS, 18W OUTPUT, FOR CONNECTION TO REMOTE HEADS   | 6V       | -        | WALL     | 7.5'<br>(VERIFY)       |
| R                         | LITHONIA<br>#ELA-TNX-H0606  | COMPACT REMOTE EMERGENCY EXTERIOR FLOODLIGHT (6V) WITH WET LOCATION LISTING   | 6W<br>6V | 2        | WALL     | 7.5'<br>(VERIFY)       |
|                           | LITHONIA<br>#LV-S-W-X-G-120/277<br>-EL N-4X                                 | SELF CONTAINED EMERGENCY EXIT SIGN WITH MAINTENANCE FREE NICKEL CADMIUM BATTERY, WET LOCATION LISTING, PROVIDE WITH MOUNTING, QUANTITY OF FACES, AND DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS                | LED      | -        | WALL     | ABOVE DOOR/<br>CEILING |

GENERAL NOTES:

- ALL WORK SHALL BE PERFORMED IN A NEAT AND PROFESSIONAL MANNER USING GOOD ENGINEERING PRACTICES. ALL NEW AND EXISTING WORK MODIFIED BY THIS PROJECT SHALL COMPLY WITH THE OWNER'S REQUIREMENTS, SPECIFICATIONS, LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE, INTERNATIONAL BUILDING CODE, AND INTERNATIONAL FIRE CODE INCLUDING ALL STATE AND LOCAL AMENDMENTS.
- COORDINATE EXACT LOCATIONS AND REQUIREMENTS OF MECHANICAL AND POOL ITEMS PRIOR TO ROUGH-IN. PROVIDE ALL REQUIRED CONTROLS AND CONNECTIONS AS NEEDED FOR FULLY OPERATIONAL SYSTEMS, AND THE INTENDED OPERATION AS INDICATED BY MECHANICAL SEQUENCE OF OPERATIONS, AND THE SPECIFICATIONS.
- COORDINATE WITH MECHANICAL AND OTHER TRADES TO ENSURE THAT ANY NEW ELECTRICAL PANELS AND/OR DISTRIBUTION EQUIPMENT ARE PROVIDED WITH THE NEC REQUIRED WORKING CLEARANCES.
- COORDINATE EXACT HEIGHTS AND LOCATIONS OF ELECTRICAL DEVICES WITH ARCHITECTURAL, FURNITURE, AND EQUIPMENT DRAWINGS PRIOR TO ROUGH-IN.
- NEW GFCI RECEPTACLES SHALL BE LOCATED IN A READILY ACCESSIBLE LOCATION PER NEC 210.8. IF NOT POSSIBLE, PROVIDE CIRCUITS SUPPLIED BY A 5mA GFCI CIRCUIT BREAKER.
- ALTHOUGH NOT SHOWN, AND UNLESS CONDUCTORS ENTER THE BOX THROUGH A RACEWAY, NEW SWITCH BOXES SHALL INCLUDE A "GROUNDED CONDUCTOR" (NEUTRAL) OF THE CONTROLLED LIGHTING CIRCUIT AS REQUIRED BY NEC 404.2(C).
- SIZE CONDUCTORS TO PROVIDE MAXIMUM VOLTAGE DROP NOT TO EXCEED 2% IN BRANCH CIRCUITS AND A MAXIMUM OF 3% IN FEEDERS. IN GENERAL, FOR A 20 AMP CIRCUIT, MINIMUM WIRE SIZE SHALL BE #12 (CU.) FOR BRANCH CIRCUITS LESS THAN 70', #10 (CU.) FOR CIRCUITS 70' TO 125' AND #8 (CU.) FOR CIRCUITS 125' TO 200'.
- PROVIDE SEISMIC BRACING AND SUPPORT FOR ALL NEW ELECTRICAL EQUIPMENT AS REQUIRED BY THE IBC AND OTHER APPLICABLE CODES. EQUIPMENT TO BE BRACED AND SUPPORTED MAY INCLUDE BUT IS NOT LIMITED TO LIGHTS, PANELS, CONDUIT, ETC.
- THE CONTRACTOR SHALL REFERENCE NEC 680 "SWIMMING POOLS, FOUNTAINS, AND SIMILAR INSTALLATIONS" AND SHALL INSTALL ALL WORK IN ACCORDANCE WITH ALL APPLICABLE SECTIONS INCLUDING GROUNDING AND EQUIPOTENTIAL BONDING OF NEW POOL SYSTEMS.

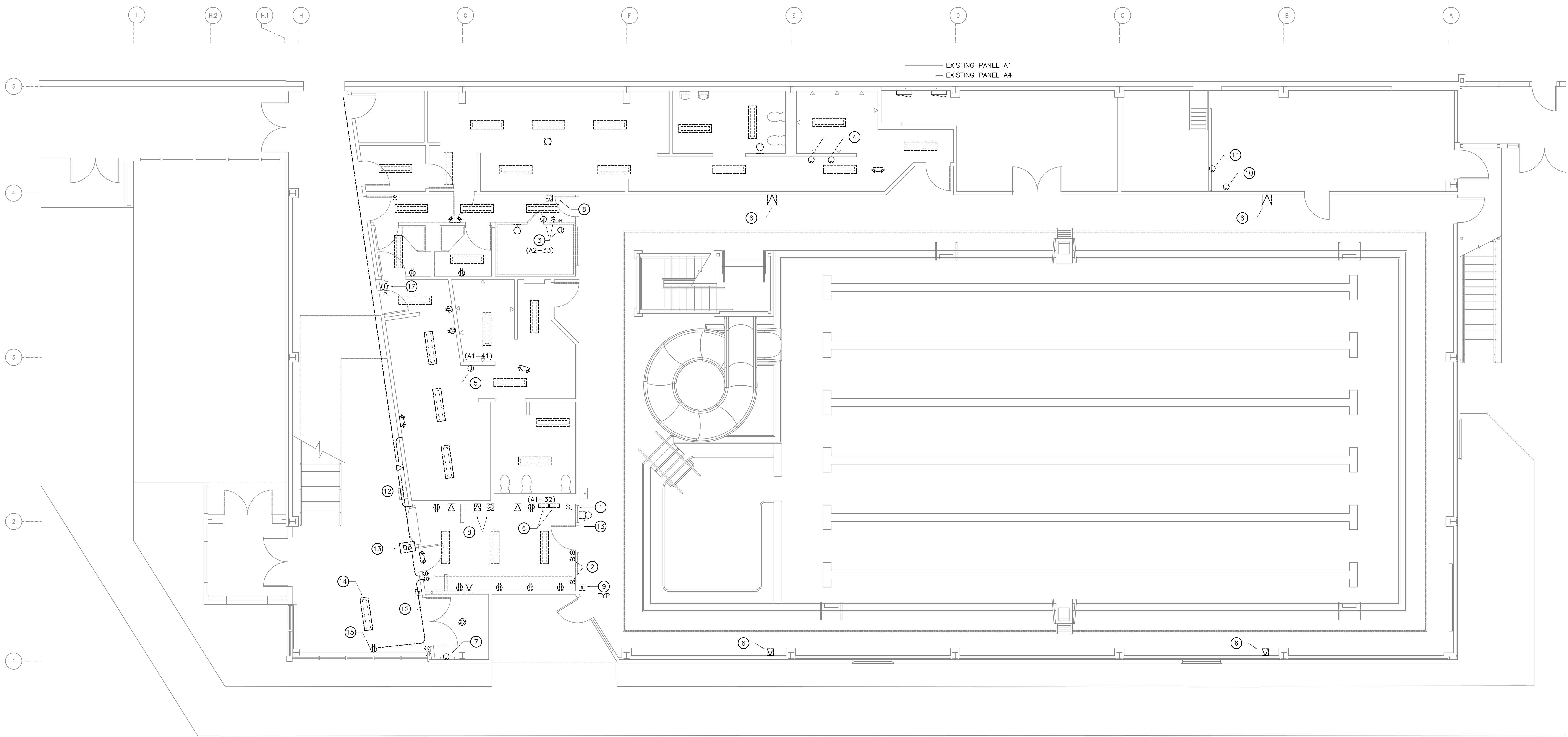


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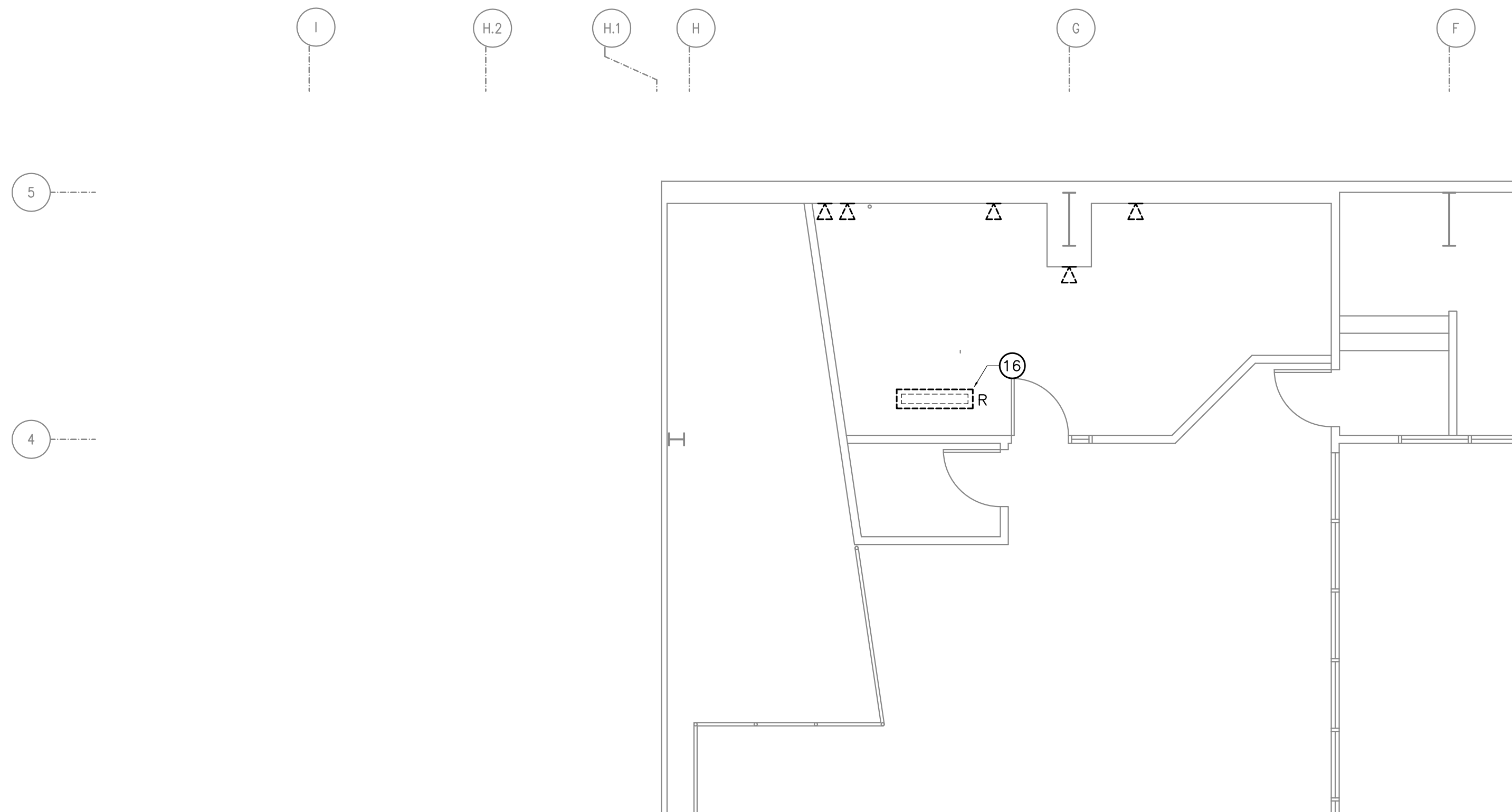
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| Sheet Contents                |
|-------------------------------|
| ELECTRICAL<br>DEMOLITION PLAN |

| Category | Sheet |
|----------|-------|
| E1       | 1     |



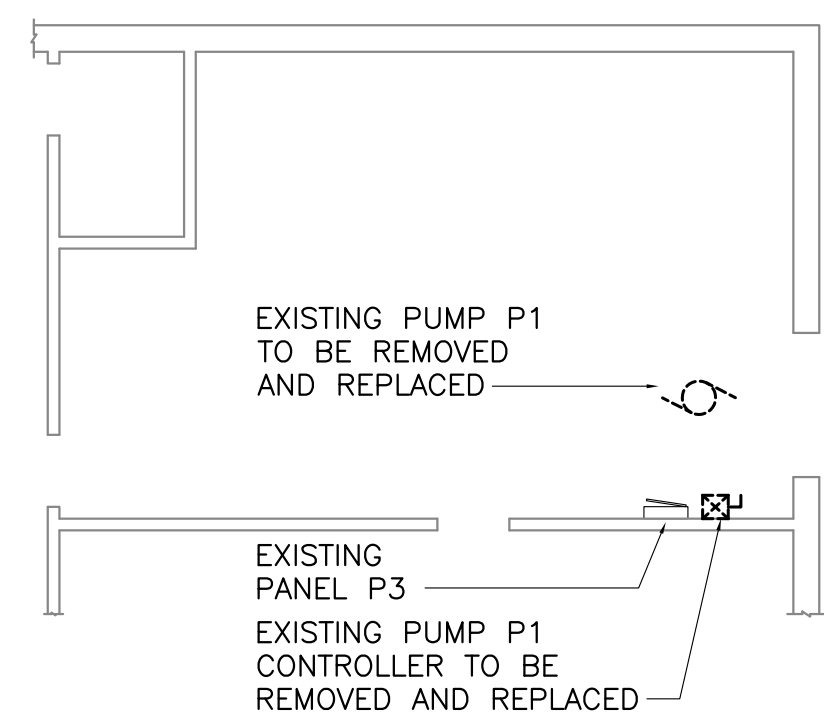
**1** ELECTRICAL DEMOLITION PLAN - FIRST FLOOR  
E1.1 SCALE: 3/16" = 1'-0"



**2** ELECTRICAL DEMOLITION PLAN - SECOND FLOOR  
E1.1 SCALE: 3/16" = 1'-0"

**GENERAL NOTES:**

- UNLESS OTHERWISE NOTED, DASHED SYMBOLS INDICATE EXISTING EQUIPMENT TO BE REMOVED AND ASSOCIATED ELECTRICAL SUCH AS CONDUIT, BOXES, WIRING, ETC TO BE REMOVED BACK TO SOURCE PANEL.
- ITEMS SHOWN TO BE REMOVED ARE BASED ON CASUAL FIELD OBSERVATIONS. THE CONTRACTOR SHALL FIELD VERIFY ALL DISCREPANCIES PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL DISCONNECT, REMOVE, RELOCATE, AND RECONNECT ALL ELECTRICAL EQUIPMENT AS REQUIRED FOR THE REMODEL WORK, INCLUDING ANY WORK ASSOCIATED WITH THE REPLACEMENT OF GWB AS INDICATED IN THE ARCHITECTURAL DRAWINGS.
- THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DISPOSE OF ALL UNWANTED MATERIALS OFF OF THE SITE.
- EXISTING DEVICES TO REMAIN ARE NOT SHOWN. CONTRACTOR TO ENSURE THAT ALL EXISTING FIXTURES AND DEVICES TO REMAIN, REMAIN ENERGIZED.
- CIRCUITS IN PARENTHESIS, IF SHOWN, ARE BELIEVED TO BE EXISTING CIRCUITS FOR FIXTURES AND DEVICES SHOWN, CONTRACTOR TO VERIFY.

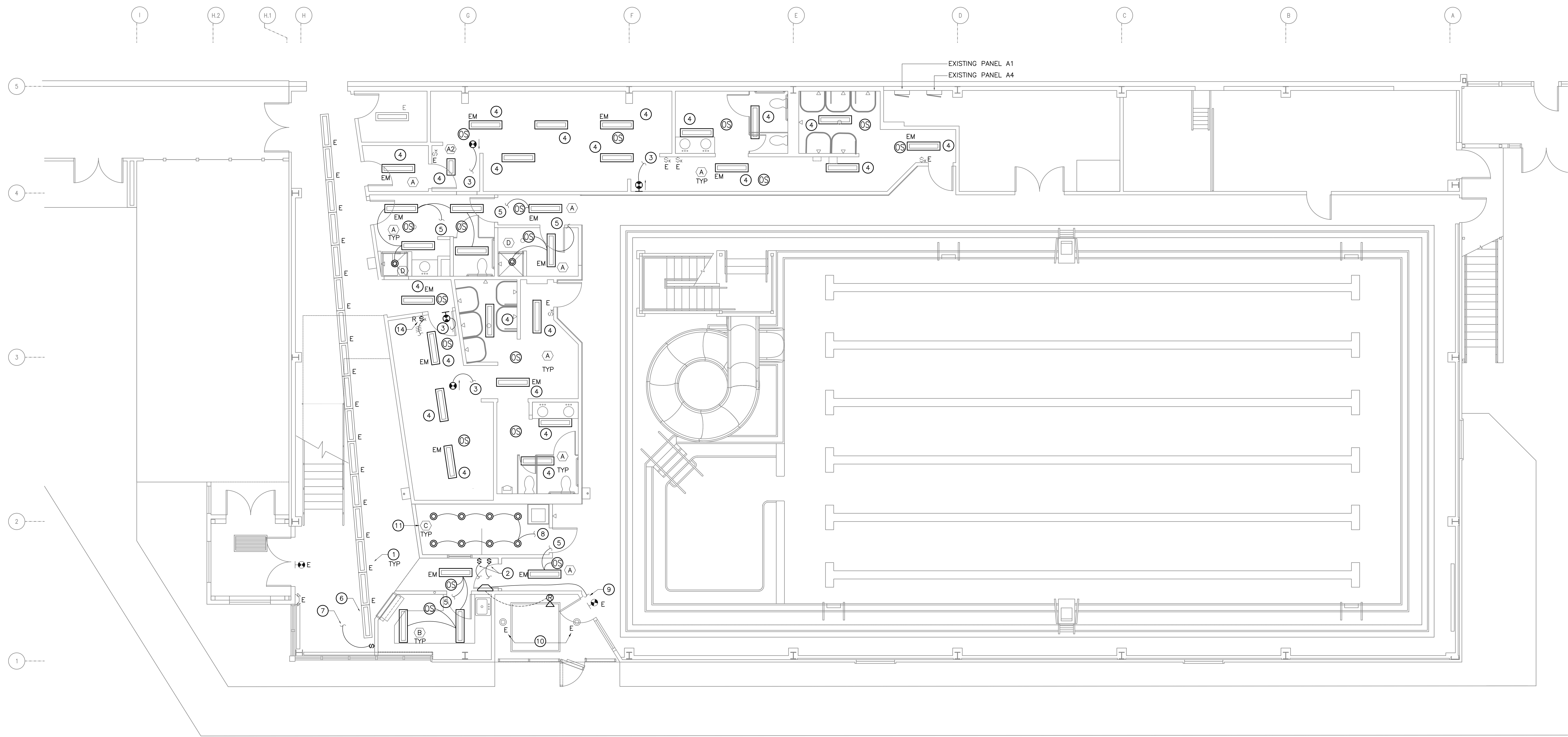


**3** ELECTRICAL DEMOLITION PLAN  
E1.1 HIGH SCHOOL MECHANICAL ROOM  
SCALE: 1/8" = 1'-0"

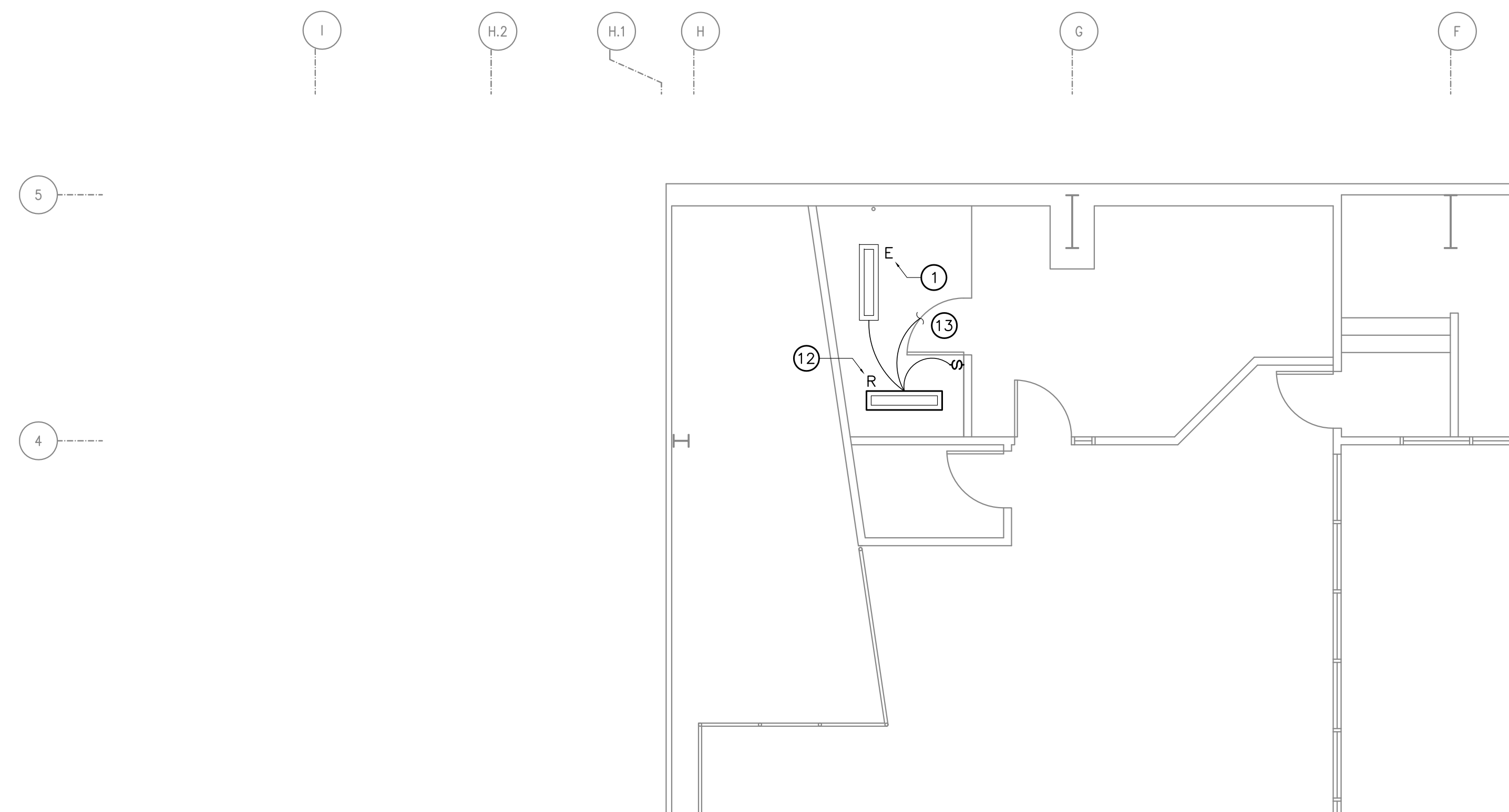
**SHEET NOTES:**

- REMOVE AND RELOCATE SLIDE PUMP SWITCH (TWO BUTTON, PUSH TYPE) TO NEW LOCATION. SEE REMODEL PLANS ON SHEET E3.1.
- REMOVE AND RELOCATE SWITCHING CONTROLS FOR POOL LIGHTING. SEE REMODEL PLANS ON SHEET E2.1.
- EXISTING SAUNA TO BE REMOVED. DISCONNECT AND REMOVE ASSOCIATED ELECTRICAL. EXISTING HEATER, TIMER CONTROLS, AND CONTACTOR TO BE REMOVED AND RELOCATED TO NEW SAUNA LOCATION.
- EXISTING HANDDRYER TO BE REMOVED AND REPLACED WITH NEW. CONTRACTOR TO DISCONNECT IN PREPARATION FOR REPLACEMENT.
- EXISTING HANDDRYER TO BE REMOVED AND RELOCATED TO NEW LOCATION. CONTRACTOR TO DISCONNECT AND REMOVE ASSOCIATED ELECTRICAL.
- EXISTING "BOGEN" SOUND SYSTEM, SPEAKERS, AND WIRING TO BE REMOVED.
- HEATER TO BE REMOVED. REMOVE ASSOCIATED ELECTRICAL.
- INTERCOM/CLOCK DEVICES TO BE REMOVED AND RELOCATED WHERE SHOWN ON REMODEL DRAWINGS.
- EXISTING FIRE ALARM DEVICES TO BE REMOVED AND RELOCATED WHERE SHOWN ON REMODEL DRAWINGS.
- EXISTING CO2 SYSTEM AND CONTROLLER TO BE REMOVED AND REPLACED WITH NEW. PROVIDE DISCONNECTION OF ELECTRICAL.
- EXISTING CONTROLLER TO BE REMOVED AND REPLACED WITH NEW. PROVIDE DISCONNECTION OF ELECTRICAL.
- EXISTING SURFACE MOUNTED CONDUIT AND CONDUCTORS TO SIGN, COURTESY PHONE, WIRELESS RADIO ON THE EXTERIOR OF THE BUILDING AND TO THE UPSTAIRS OFFICE TO BE REMOVED AND/OR RELOCATED AS REQUIRED FOR THE DEMOLITION AND REMODEL.
- DOORBELL AND WIRING TO BE REMOVED, RELOCATED, AND RECONNECTED AS REQUIRED AND WHERE SHOWN ON REMODEL DRAWINGS.
- CONTRACTOR TO REMOVE AND RELOCATE EXISTING LIGHT IF REQUIRED TO AVOID CONFLICT WITH NEW OFFICE WALL. ENSURE EXISTING FIXTURES TO REMAIN ARE ADEQUATELY ATTACHED TO CEILING.
- CONTRACTOR TO REMOVE AND RELOCATE EXISTING SIGN POWER OUTLET ABOVE WINDOW.
- EXISTING LIGHT FIXTURE TO BE REMOVED AND RELOCATED WHERE SHOWN ON LIGHTING REMODEL DRAWINGS.
- EXISTING KEYED SWITCH TO BE REMOVED AND RELOCATED WHERE SHOWN ON LIGHTING REMODEL DRAWINGS.





1 LIGHTING REMODEL PLAN - FIRST FLOOR  
E2.1 SCALE: 3/16" = 1'-0"



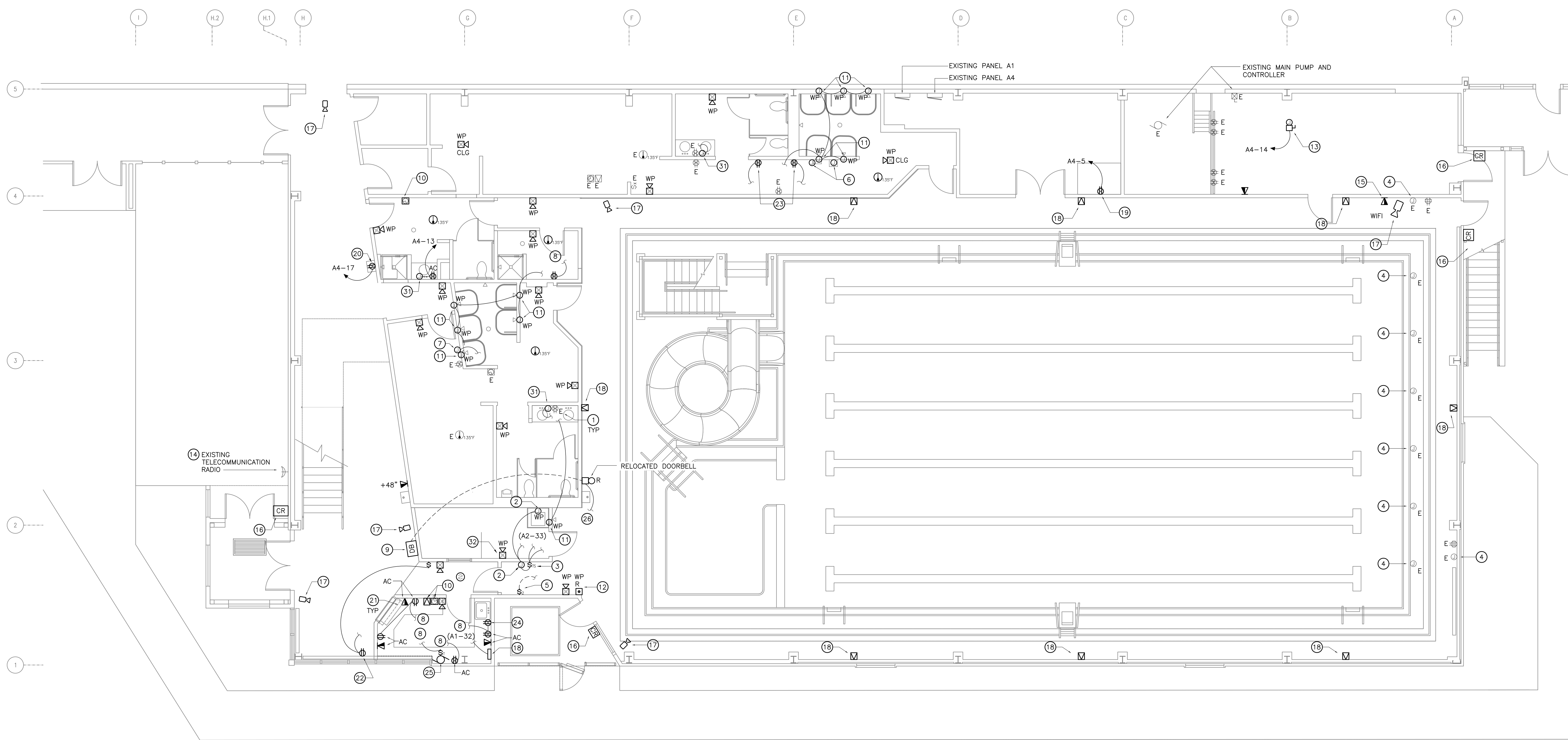
2 LIGHTING REMODEL PLAN - SECOND FLOOR  
E2.1 SCALE: 3/16" = 1'-0"

#### GENERAL NOTES:

1. PROVIDE SEISMIC BRACING AND SUPPORT FOR ALL ELECTRICAL LIGHTS AS REQUIRED BY THE IBC AND OTHER APPLICABLE CODES.
2. COORDINATE THE EXACT LOCATION AND MOUNTING OF ALL NEW LIGHT FIXTURES TO AVOID CONFLICTS WITH BUILDING STRUCTURAL COMPONENTS, MECHANICAL PIPING, DUCTWORK, ETC.
3. INSTALL WALL AND CEILING MOUNTED OCCUPANCY SENSORS WIRED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

#### SHEET NOTES:

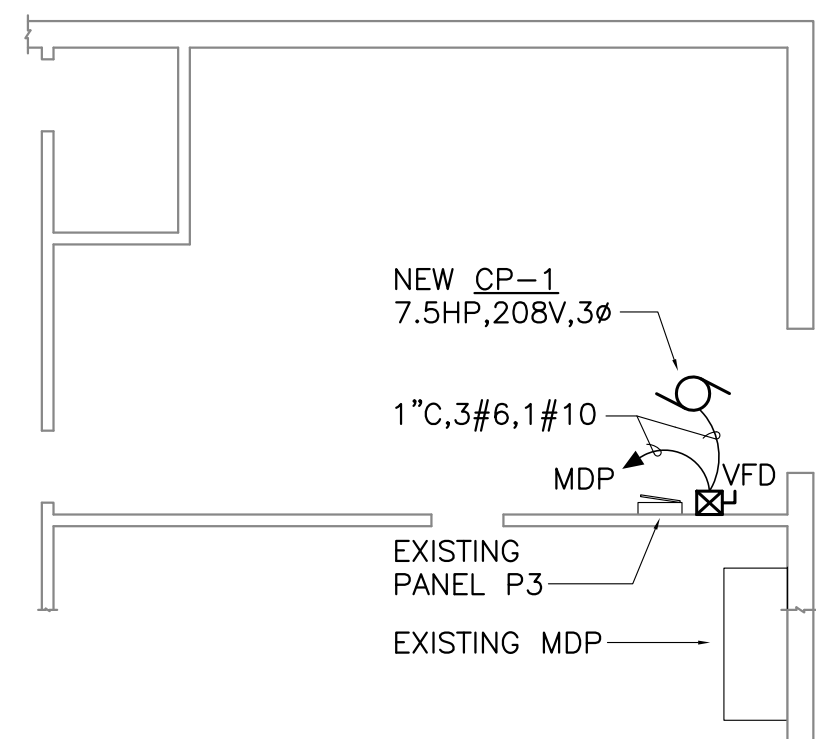
- 1 LETTER INDICATES EXISTING FIXTURE OR DEVICE TO REMAIN, TYPICAL.
- 2 NEW LOCATION OF RELOCATED SWITCHING CONTROLS FOR POOL LIGHTING. RECONNECT.
- 3 CONNECT TO EXISTING UNSWITCHED AREA LIGHTING BRANCH CIRCUITRY.
- 4 PROVIDE AND INSTALL NEW FIXTURE AS INDICATED AND RECONNECT. PROVIDE NEW WIRING AND CIRCUITRY AS REQUIRED FOR NEW SWITCHING CONTROL FROM OCCUPANCY SENSORS SHOWN. PROVIDE NEW WIRING AS NECESSARY FOR NEW EMERGENCY LIGHTING FIXTURE LOCATIONS. CONNECT EMERGENCY LIGHTING BATTERY TO UNSWITCHED HOT LEG OF EXISTING AREA LIGHTING BRANCH CIRCUIT. UNSWITCHED CONDUCTORS MAY NOT BE PRESENT AT FIXTURES NOTED TO HAVE EMERGENCY BATTERIES. CONTRACTOR TO VERIFY AND PULL CONDUCTORS AS NEEDED.
- 5 PROVIDE NEW BRANCH CIRCUITRY AS SHOWN AND AS NECESSARY TO PROVIDE NEW ROOM SWITCHING SCHEME. RECONNECT TO UNSWITCHED LEG OF EXISTING AREA BRANCH LIGHTING CIRCUITRY MADE AVAILABLE AS A RESULT OF THE DEMOLITION.
- 6 CONTRACTOR TO FIELD VERIFY, AND RELOCATE EXISTING LIGHT FIXTURE ONLY AS NECESSARY TO AVOID CONFLICT WITH NEW OFFICE WALL. PROVIDE SEISMIC BRACING AS REQUIRED AND RECONNECT TO EXISTING LIGHTING CIRCUITRY AND CONTROLS.
- 7 CONNECT TO EXISTING LOBBY LIGHT FIXTURES FOR CONTROL.
- 8 CONNECT TO EXISTING RELOCATED TIMER SWITCH AND LIGHTING CIRCUITRY AS SHOWN AND INDICATED ON SHEET E3.1.
- 9 CONNECT TO EXISTING UNSWITCHED HOT LEG OF POOL AREA LIGHTING CIRCUITRY.
- 10 CONTRACTOR TO PROVIDE PHOTOCELL AND CONNECTIONS AS REQUIRED FOR CONTROL OF THESE TWO EXISTING LIGHT FIXTURES INDEPENDENTLY OF ALL OTHER EXTERIOR LIGHTING FIXTURES.
- 11 TYPE 'C' SAUNA LIGHTS ARE TO BE PROVIDED UNDER DIVISION 13 (SECTION 13030). THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR FOR THE PROVIDING OF FIXTURES. ELECTRICAL CONTRACTOR SHALL INSTALL AND PROVIDE WIRING AND CONNECTIONS AS REQUIRED FOR COMPLETE OPERATION AS INTENDED AND REQUIRED. REFERENCE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 12 LETTER INDICATES EXISTING FIXTURE RELOCATED TO NEW LOCATION.
- 13 PROVIDE AND INSTALL NEW CIRCUITRY AS REQUIRED FOR NEW SWITCHING SCHEME. RECONNECT TO EXISTING AREA LIGHTING CIRCUITRY.
- 14 NEW LOCATION FOR RELOCATED KEY SWITCH. PROVIDE AND INSTALL NEW CIRCUITRY AS REQUIRED FOR 3 WAY CONTROL OF LOCKER ROOM LIGHTS.



**1** POWER AND SIGNAL REMODEL PLAN - FIRST FLOOR - POOL  
E3.1 SCALE: 3/16" = 1'-0"

**GENERAL NOTES:**

- COORDINATE WITH GENERAL CONTRACTOR TO ENSURE NEC REQUIRED WORKING CLEARANCES AND SPACES ARE MAINTAINED AROUND ELECTRICAL EQUIPMENT SUCH AS SERVICE, DISTRIBUTION EQUIPMENT, PANELS, DISCONNECTS, MOTOR STARTERS, ETC. PER NEC 110.26. WHERE NECESSARY, PROVIDE STRUCTURAL CHANNEL (UNISTRUT) SUPPORT FOR INSTALLATION.
- THE CONTRACTOR SHALL COORDINATE WITH MECHANICAL FOR EXACT LOCATION OF MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.
- THE CONTRACTOR SHALL COORDINATE WITH MECHANICAL AND PROVIDE ALL REQUIRED POWER AND CONTROL CONNECTIONS AS NECESSARY FOR EQUIPMENT TO OPERATE AS A COMPLETE SYSTEM AS INTENDED AND INDICATED IN THE DRAWINGS, SPECIFICATIONS, AND IN THE SEQUENCE OF OPERATIONS.
- ALL EXISTING DEVICES TO REMAIN ARE NOT SHOWN. CONTRACTOR TO ENSURE THAT ALL EXISTING FIXTURES AND DEVICES TO REMAIN, REMAIN ENERGIZED.
- CIRCUITS IN PARENTHESIS, IF SHOWN, ARE BELIEVED TO BE EXISTING CIRCUITS MADE AVAILABLE AS A RESULT OF THE DEMOLITION OF SIMILAR EQUIPMENT, CONTRACTOR TO VERIFY.
- THESE DRAWINGS INDICATE A PROPOSED QUANTITY AND LOCATION OF FIRE ALARM DEVICES IN THE AREA OF REMODEL. ALL REQUIRED FIRE ALARM DEVICES MAY NOT BE SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETE DESIGN AND MODIFICATION OF EXISTING FIRE ALARM AND DETECTION SYSTEMS ASSOCIATED WITH THE REMODEL OF A SMALL PORTION OF THE EXISTING SCHOOL. PROVIDE ALL NECESSARY DEVICES, WIRING, ETC. FOR COMPLIANCE WITH GOVERNING CODES AND THE LOCAL A.H.J. AS REQUIRED FOR THE REMODEL. THE EXISTING FIRE ALARM CONTROL PANEL IS A GE/EST 10-500 FIRE ALARM. THE CONTRACTOR SHALL VERIFY THAT THE EXISTING FIRE ALARM SYSTEMS (ZONES, CIRCUITRY, BATTERIES, ETC) HAVE ADEQUATE CAPACITY FOR THE MODIFICATIONS/ADDITIONS AND PROVIDE ALL NECESSARY APPURTENANCES AS REQUIRED IF NOT.

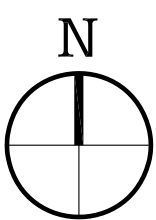


**2** POWER REMODEL PLAN  
E3.1 HIGH SCHOOL MECHANICAL ROOM  
SCALE: 1/8" = 1'-0"

**SHEET NOTES:**

- THE FOLLOWING SHEET NOTES ARE A COMPREHENSIVE LIST APPLYING TO SHEET E3.1 AND E3.2. NOT ALL NOTES APPLY TO EVERY SHEET.
- LETTER INDICATES EXISTING FIXTURE OR DEVICE, TYPICAL OF ALL.
  - JUNCTION BOX AND DISCONNECT FOR CONNECTION TO RELOCATED SAUNA HEATER 14.4KVA, 208V, 3Ø AND 50 AMP CONTACTOR. 1" CONDUIT 4#6,1#10 GROUND. RECONNECT TO EXISTING SAUNA CIRCUIT. SEE MANUFACTURERS INSTALLATION INSTRUCTIONS. EXISTING SDA 2 POLE CIRCUIT BREAKER TO BE REPLACED WITH NEW BREAKER WITH DEVICE FOR LOCKING THE CIRCUIT BREAKER IN THE OFF POSITION.
  - EXISTING RELOCATED TIMER FOR SAUNA. CONNECT TO SAUNA LIGHTS, AND CONTACTOR. RECONNECT TO EXISTING SAUNA LIGHTING CIRCUITRY MADE AVAILABLE AS A RESULT OF THE DEMOLITION.
  - TIMING SYSTEM DISPLAY SYSTEM. CONTRACTOR TO PROVIDE AND INSTALL ALL WIRING AS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM. SEE SPECIFICATION SECTION 11664 FOR REQUIREMENTS.
  - RELOCATE SLIDE PUMP SWITCH (2 BUTTON, PUSH TYPE) TO NEW LOCATION. RECONNECT.
  - EXISTING HANDDRYER TO BE REPLACED WITH NEW. CONTRACTOR TO RECONNECT TO EXISTING HANDDRYER POWER CIRCUITRY. CONTRACTOR TO PROVIDE LOCK-OFF TYPE DEVICE AT EXISTING CIRCUIT BREAKER AS REQUIRED BY NEC 422.31(B). SEE SPECIFICATION SECTION 10800 FOR REQUIREMENTS.
  - NEW HANDDRYER LOCATION. CONTRACTOR TO RECONNECT TO EXISTING HANDDRYER POWER CIRCUITRY MADE AVAILABLE AS A RESULT OF THE DEMOLITION. CONTRACTOR TO PROVIDE LOCK-OFF TYPE DEVICE AT EXISTING CIRCUIT BREAKER AS REQUIRED BY NEC 422.31(B). SEE SPECIFICATION SECTION 10800 FOR REQUIREMENTS.
  - RECONNECT TO EXISTING AREA POWER BRANCH CIRCUITRY MADE AVAILABLE AS A RESULT OF THE DEMOLITION IN THE OFFICE AREA AND STAFF SHOWER/LOCKER ROOM.
  - NEW DOORBELL BUTTON AND LOCATION, RECONNECT TO EXISTING BELL IN POOL AREA.
  - EXISTING INTERCOM/CLOCK DEVICES RELOCATED TO NEW LOCATION AND RECONNECTED AS REQUIRED.
  - JUNCTION BOX FOR CONNECTION TO TIMED SHOWER VALVES. COORDINATE WITH MECHANICAL EQUIPMENT MANUFACTURER'S LITERATURE FOR EXACT LOCATION AND REQUIREMENTS FOR TRANSFORMER AND CONNECTIONS. PROVIDE CONNECTION TO NEAREST AVAILABLE UNSWITCHED 20 AMP 120 VOLT POWER CIRCUITRY.
  - PROPOSED LOCATION OF EXISTING RELOCATED FIRE ALARM DEVICE. RECONNECT TO EXISTING FIRE ALARM NOTIFICATION AND DETECTION CIRCUITRY. AT CONTRACTORS' DISCRETION, EXISTING DEVICES MAY BE RE-USED OR PROVIDE NEW (COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM) AS REQUIRED.
  - NEW UV SANITIZATION SYSTEM, 478W 208V 1Ø. CIRCUIT BREAKER TO BE 5mA GFCI TYPE. PROVIDE NECESSARY APPURTENANCES, EQUIPMENT AND CONNECTIONS FOR INTERCONNECTION TO EXISTING MAIN PUMP IN FILTER ROOM. COORDINATE WITH POOL EQUIPMENT SUPPLIER FOR REQUIREMENTS.
  - PROVIDE CONDUIT AND CAT 5E CABLE FROM EXISTING TELECOMM WIRELESS RADIO TO NEW TELECOMMUNICATION ROOM ON SECOND FLOOR. TERMINATE AT OWNER PROVIDED PATCH PANEL. COORDINATE WITH OWNER FOR REQUIREMENTS.
  - PROVIDE CONDUIT AND CAT 5E CABLE FROM NEW TELECOMMUNICATION ROOM ON SECOND FLOOR FOR WIRELESS ACCESS POINT. TERMINATE AT OWNER PROVIDED PATCH PANEL. COORDINATE WITH OWNER FOR REQUIREMENTS.
  - ALTERNATE #1 - PROVIDE NEW CARD READERS, PANIC EXIT DEVICES, POWER ADAPTERS, SOFTWARE, WIRING, INSTALLATION, ETC AS REQUIRED FOR NEW CARD LOCK DOOR ENTRY SYSTEM. SEE SPECIFICATION SECTION 13700 FOR REQUIREMENTS. PROVIDE POWER FROM NEAREST AVAILABLE UNSWITCHED 20A 120V POWER RECEPTACLE, AND PROVIDE AND INSTALL CONTROL WIRING AS REQUIRED.
  - ALTERNATE #2 - PROVIDE NEW CAMERAS, SERVER, STORAGE, AND WIRING ASSOCIATED WITH NEW CAMERA SURVEILLANCE SYSTEM. PROVIDE CAT 5E WIRING FROM EACH CAMERA BACK TO NEW TELECOMMUNICATION ROOM ON SECOND FLOOR AND TERMINATE ON OWNER PROVIDED PATCH PANEL. SEE SPECIFICATION SECTION 13700 FOR ADDITIONAL REQUIREMENTS.
  - ALTERNATE #3 - PROVIDE NEW SOUND SYSTEM, SPEAKERS, AND WIRING AS REQUIRED FOR NEW SOUND SYSTEM. PROVIDE 20 AMP 120 VOLT CONNECTION TO EXISTING SOUND SYSTEM POWER CIRCUITRY MADE AVAILABLE AS A RESULT OF THE DEMOLITION. SEE SPECIFICATION SECTION 11130 FOR REQUIREMENTS. PROVIDE POWER AND CONTROL WIRING AS REQUIRED.
  - ALTERNATE #4 - PROVIDE NEW GFCI RECEPTACLE AND CIRCUITRY FOR ICE MAKER, 7A 115V.
  - PROVIDE NEW GFCI RECEPTACLE AND CIRCUITRY FOR SWIMSUIT SPINNER/DRYER, 1400W 115V. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER.
  - TELECOMMUNICATION OUTLET WITH 2 CAT. 5E JACKS. ONE CAT 5E CABLE PER JACK IN 3/4" CONDUIT RUN BACK TO NEW SECOND FLOOR TELECOMMUNICATION ROOM AND TERMINATED AT OWNER PROVIDED PATCH PANEL. COORDINATE WITH OWNER FOR REQUIREMENTS. TYPICAL OF ALL SHOWN.
  - NEW POWER OUTLET ABOVE WINDOW FOR SIGN. RECONNECT TO EXISTING SIGN POWER CIRCUITRY MADE AVAILABLE FROM THE DEMOLITION.
  - NEW GFCI RECEPTACLES, MOUNTED AT 48" BETWEEN MIRRORS, COORDINATE WITH ARCHITECT. RECONNECT TO EXISTING WOMENS POWER RECEPTACLE CIRCUITRY MADE AVAILABLE AS A RESULT OF THE DEMOLITION.
  - RECEPTACLE AT 18" FOR UNDERCOUNTER FRIDGE.
  - KS-1, .5A 120V.
  - RECONNECT TO DOORBELL TRANSFORMER.
  - PROVIDE POWER AND CONTROL CONNECTIONS FROM OUTDOOR CONDENSING UNIT TO RESPECTIVE INDOOR COOLING UNIT.
  - IF THERE ARE NOT ANY EXISTING RECEPTACLES WITHIN 25' OF THE EXTERIOR MECHANICAL UNITS, PROVIDE AND INSTALL NEW RECEPTACLE(S) WITHIN 25' OF MECHANICAL EQUIPMENT PER NEC 210.63.
  - PROVIDE 4'x8'x 3/4" FIRE RETARDANT AC PLYWOOD BACKBOARD FINISHED WITH WHITE FIRE RETARDANT PAINT FOR MOUNTING OF OWNER TELECOMMUNICATION EQUIPMENT.
  - COORDINATE WITH OWNER FOR EXACT LOCATION.
  - JUNCTION BOX FOR CONNECTION TO AUTOMATIC ELECTRIC FAUCETS. COORDINATE WITH MECHANICAL AND EQUIPMENT MANUFACTURER'S LITERATURE FOR EXACT LOCATION AND REQUIREMENTS FOR TRANSFORMER AND CONNECTIONS. CONNECT TO POWER RECEPTACLE ABOVE.
  - DEVICE IS TO BE APPROPRIATE FOR LOCATION IN SAUNA





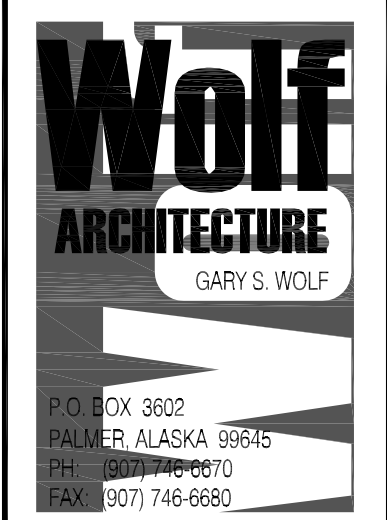
E3.2 SCALE: 3/16" = 1'-0"

1. COORDINATE WITH GENERAL CONTRACTOR TO ENSURE NEC REQUIRED WORKING CLEARANCES AND SPACES ARE MAINTAINED AROUND ELECTRICAL EQUIPMENT SUCH AS SERVICE, DISTRIBUTION EQUIPMENT, PANELS, DISCONNECTS, MOTORS, MOTOR STARTERS, ETC. PER NEC 110.26 WHERE NECESSARY, PROVIDE STRUCTURAL CHANNEL (UNISTRUT) SUPPORT FOR INSTALLATION.
2. THE CONTRACTOR SHALL COORDINATE WITH MECHANICAL FOR EXACT LOCATION OF MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.
3. THE CONTRACTOR SHALL COORDINATE WITH MECHANICAL AND PROVIDE ALL REQUIRED POWER AND CONTROL CONNECTIONS AS NECESSARY FOR EQUIPMENT TO OPERATE AS A COMPLETE SYSTEM AS INTENDED AND INDICATED IN THE DRAWINGS, SPECIFICATIONS, AND IN THE SEQUENCE OF OPERATIONS.
4. ALL EXISTING DEVICES TO REMAIN ARE NOT SHOWN. CONTRACTOR TO ENSURE THAT ALL EXISTING FIXTURES AND DEVICES TO REMAIN, REMAIN ENERGIZED.
5. CIRCUITS IN PARENTHESIS, IF SHOWN, ARE BELIEVED TO BE EXISTING CIRCUITS MADE AVAILABLE AS A RESULT OF THE DEMOLITION OF SIMILAR EQUIPMENT, CONTRACTOR TO VERIFY.
6. THESE DRAWINGS INDICATE A PROPOSED QUANTITY AND LOCATION OF FIRE ALARM DEVICES IN THE AREA OF REMODEL. ALL REQUIRED FIRE ALARM DEVICES MAY NOT BE SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETE DESIGN AND MODIFICATION OF EXISTING FIRE ALARM AND DETECTOR SYSTEMS IN ASSOCIATION WITH THE REMODEL. A SUFFICIENT PORTION OF THE EXISTING SCHOOL, PROVIDING ALL NECESSARY DEVICES, WIRING, ETC. FOR COMPLIANCE WITH GOVERNING CODES AND THE LOCAL A.H.J. AS REQUIRED FOR THE REMODEL. THE EXISTING FIRE ALARM CONTROL PANEL IS A GE/EST 10-500 FIRE ALARM. THE CONTRACTOR SHALL VERIFY THAT THE EXISTING FIRE ALARM SYSTEM (BONES, ORION, BATTERIES, ETC) HAVE ADEQUATE CAPACITY FOR THE MODIFICATIONS/ADDITIONS AND PROVIDE ALL NECESSARY APPROPRIANCES AS REQUIRED IF REQUIRED.

- THE FOLLOWING SHEET NOTES ARE A COMPREHENSIVE LIST APPLYING TO SHEET E3.1 AND E3.2. NOT ALL NOTES APPLY TO EVERY SHEET.
- 1 LETTER IDENTIFIES EXISTING FIXTURE OR DEVICE, TYPICAL OF ALL.
- 2 JUNCTION BOX AND DISCONNECT FOR CONNECTION TO RELOCATED SAUNA HEATER. 14 AWG, 20BY, 36 AWG 50 AMP CONTRACTOR, 1" CONDUIT #86,1#10 GROUND. RECONNECT TO EXISTING SAUNA CIRCUIT. SEE MANUFACTURERS INSTALLATION INSTRUCTIONS. EXISTING 50 A POLE CIRCUIT BREAKER TO BE REPLACED WITH NEW BREAKER WITH DEVICE FOR LOCKING THE CIRCUIT BREAKER IN THE OFF POSITION.
- 3 EXISTING RELOCATED TIMER FOR SAUNA. CONNECT TO SAUNA LIGHTS, AND CONTRACTOR. RECONNECT TO EXISTING SAUNA LIGHTING CIRCUITRY MADE AVAILABLE AS A RESULT OF THE DEMOLITION.
- 4 TIMING SYSTEM DISPLAY SYSTEM. CONTRACTOR TO PROVIDE AND INSTALL ALL WIRING AS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM. SEE SPECIFICATION SECTION 11664 FOR REQUIREMENTS.
- 5 RELOCATE SLIDE PUMP SWITCH (2 BUTTON, PUSH TYPE) TO NEW LOCATION. RECONNECT.
- 6 EXISTING HANDDRYER TO BE REPLACED WITH NEW. CONTRACTOR TO RECONNECT TO EXISTING HANDDRYER POWER CIRCUITRY. CONTRACTOR TO PROVIDE LOCK-OFF TYPE DEVICE AT EXISTING CIRCUIT BREAKER AS REQUIRED BY NEC 422.31(B). SEE SPECIFICATION SECTION 10800 FOR REQUIREMENTS.
- 7 NEW HANDDRYER LOCATION. CONTRACTOR TO RECONNECT TO EXISTING HANDDRYER POWER CIRCUITRY MADE AVAILABLE AS A RESULT OF THE DEMOLITION. CONTRACTOR TO PROVIDE LOCK-OFF TYPE DEVICE AT EXISTING CIRCUIT BREAKER AS REQUIRED BY NEC 422.31(B). SEE SPECIFICATION SECTION 10800 FOR REQUIREMENTS.
- 8 RECONNECT TO EXISTING AREA POWER BRANCH CIRCUITRY MADE AVAILABLE AS A RESULT OF THE DEMOLITION IN THE OFFICE AREA AND STAFF SHOWER/LOCKER ROOM.
- 9 NEW DOORBELL BUTTON AND LOCATION, RECONNECT TO EXISTING BELL IN POOL AREA.
- 10 EXISTING INTERCOM/CLOCK DEVICES RELOCATED TO NEW LOCATION AND RECONNECTED AS REQUIRED.
- 11 JUNCTION BOX FOR CONNECTION TO TIMED SHOWER VALVES. COORDINATE WITH MECHANICAL EQUIPMENT MANUFACTURER'S LITERATURE FOR EXACT LOCATION AND REQUIREMENTS FOR TRANSFORMER AND CONNECTIONS. PROVIDE CONNECTION TO NEAREST AVAILABLE UNSWITCHED 20 AMP 120 VOLT POWER CIRCUITRY.

- |    |   |    |   |
|----|---|----|---|
|    | PROPOSED LOCATION OF EXISTING RELOCATED FIRE ALARM DEVICE. RECONNECT TO EXISTING FIRE ALARM NOTIFICATION AND DETECTION CIRCUITRY. AT CONTRACTORS' DISCRETION, EXISTING DEVICES MAY BE RE-USED OR PROVIDE NEW (COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM) AS REQUIRED.  | 22 | NEW POWER OUTLET ABOVE WINDOW FOR SIGN. RECONNECT TO EXISTING SIGN POWER CIRCUITRY MADE AVAILABLE FROM THE DEMOLITION.  |
| 13 | NEW UV SANITIZATION SYSTEM, 478W 208V 1Ø. CIRCUIT BREAKER TO BE 5mA GFCI TYPE. PROVIDE NECESSARY APPURTENANCES, EQUIPMENT AND CONNECTIONS FOR INTERCONNECTION TO EXISTING MAIN PUMP IN FILTER ROOM. COORDINATE WITH POOL EQUIPMENT SUPPLIER FOR REQUIREMENTS.   | 23 | NEW GFCI RECEPTACLES, MOUNTED AT 48" BETWEEN MIRRORS, COORDINATE WITH ARCHITECT. RECONNECT TO EXISTING WOMENS POWER RECEPTACLE CIRCUITRY MADE AVAILABLE AS A RESULT OF THE DEMOLITION.  |
| 14 | PROVIDE CONDUIT AND CAT 5E CABLE FROM EXISTING TELECOMM WIRELESS RADIO TO NEW TELECOMMUNICATION ROOM ON SECOND FLOOR. TERMINATE AT OWNER PROVIDED PATCH PANEL. COORDINATE WITH OWNER FOR REQUIREMENTS.  | 24 | RECEPTACLE AT 18" FOR UNDERCOUNTER FRIDGE.  |
| 15 | PROVIDE CONDUIT AND CAT 5E CABLE FROM NEW TELECOMMUNICATION ROOM ON SECOND FLOOR FOR WIRELESS ACCESS POINT. TERMINATE AT OWNER PROVIDED PATCH PANEL. COORDINATE WITH OWNER FOR REQUIREMENTS.  | 25 | KS-1, 5A 120V.  |
| 16 | ALTERNATE #1 - PROVIDE NEW CARD READERS, PANIC EXIT DEVICES, POWER ADAPTERS, SOFTWARE, WIRING, INSTALLATION, ETC AS REQUIRED FOR NEW CARD SWIPE DOOR ENTRY SYSTEM. SEE SPECIFICATION SECTION 13700 FOR REQUIREMENTS. PROVIDE POWER FROM NEAREST AVAILABLE UNSWITCHED 20A 120V POWER RECEPTACLE, AND PROVIDE AND INSTALL CONDUIT WIRING AS REQUIRED. | 26 | RECONNECT TO DOORBELL TRANSFORMER.  |
| 17 | ALTERNATE #2 - PROVIDE NEW CAMERAS, SERVER, STORAGE, AND WIRING ASSOCIATED WITH NEW CAMERA SURVEILLANCE SYSTEM. PROVIDE CAT 5E WIRING FROM EACH CAMERA BACK TO NEW TELECOMMUNICATION ROOM ON SECOND FLOOR AND TERMINATE ON OWNER PROVIDED PATCH PANEL. SEE SPECIFICATION SECTION 13700 FOR ADDITIONAL REQUIREMENTS.                                 | 27 | PROVIDE POWER AND COOL CONNECTIONS FROM OUTDOOR CONDENSING UNIT TO RESPECTIVE INDOOR COOLING UNIT.  |
| 18 | ALTERNATE #3 - PROVIDE NEW SOUND SYSTEM, SPEAKERS, AND WIRING AS REQUIRED FOR NEW SOUND SYSTEM. PROVIDE 20 AMP 120 VOLT CONNECTION TO EXISTING SOUND SYSTEM POWER CIRCUITRY MADE AVAILABLE AS A RESULT OF THE DEMOLITION. SEE SPECIFICATION SECTION 11130 FOR REQUIREMENTS. PROVIDE POWER AND CONTROL WIRING AS REQUIRED.                           | 28 | IF THERE ARE NOT ANY EXISTING RECEPTACLES WITHIN 25' OF THE EXTERIOR MECHANICAL UNITS, PROVIDE AND INSTALL NEW RECEPTACLE(S) WITHIN 25' OF MECHANICAL EQUIPMENT PER NEC 210.63.   |
| 19 | ALTERNATE #4 - PROVIDE NEW GFCI RECEPTACLE AND CIRCUITRY FOR ICE MAKER, 7A 115V.  | 29 | PROVIDE 4"x8"x 3" FIRE RETARDANT AC PLYWOOD BACKBOARD FINISHED WITH WHITE FIRE RETARDANT PAINT FOR MOUNTING OF OWNER TELECOMMUNICATION EQUIPMENT.   |
| 20 | PROVIDE NEW GFCI RECEPTACLE AND CIRCUITRY FOR SWIMSUIT SPINNER/DRYER, 1400W 115V. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER.   | 30 | COORDINATE WITH OWNER FOR EXACT LOCATION.   |
| 21 | TELECOMMUNICATION OUTLET WITH 2 CAT. 5E JACKS. ONE CAT 5E CABLE PER JACK IN 3/4" CONDUIT RUN BACK TO NEW SECOND FLOOR TELECOMMUNICATION ROOM AND TERMINATED AT OWNER PROVIDED PATCH PANEL. COORDINATE WITH OWNER FOR REQUIREMENTS. TYPICAL OF ALL SHOWN.  | 31 | JUNCTION BOX FOR CONNECTION TO AUTOMATIC ELECTRIC FAUCETS. COORDINATE WITH MECHANICAL AND EQUIPMENT MANUFACTURER'S LITERATURE FOR EXACT LOCATION AND REQUIREMENTS FOR TRANSFORMER AND CONNECTIONS. CONNECT TO POWER RECEPTACLE ABOVE. |
|    |   | 32 | DEVICE IS TO BE APPROPRIATE FOR LOCATION IN SAUNA   |





CITY OF UNALASKA - AQUATICS CENTER IMPROVEMENTS  
55 EAST BROADWAY  
UNALASKA, ALASKA

|         |            |
|---------|------------|
| Drawn   | Date       |
| BAB     | 11/15/2015 |
| Checked | Job No.    |
| BAB     | 2015.002   |

|          |      |
|----------|------|
| Revision | Date |
|          |      |
|          |      |
|          |      |

|                 |
|-----------------|
| Sheet Contents  |
| PANEL SCHEDULES |
| PARTIAL SINGLE  |
| LINE DIAGRAM    |
| LOAD ANALYSIS   |

95% REVIEW SET  
HALF SIZE CONTRACT DOCUMENT 17" x 22"  
FULL SIZE CONTRACT DOCUMENT 30" x 42"

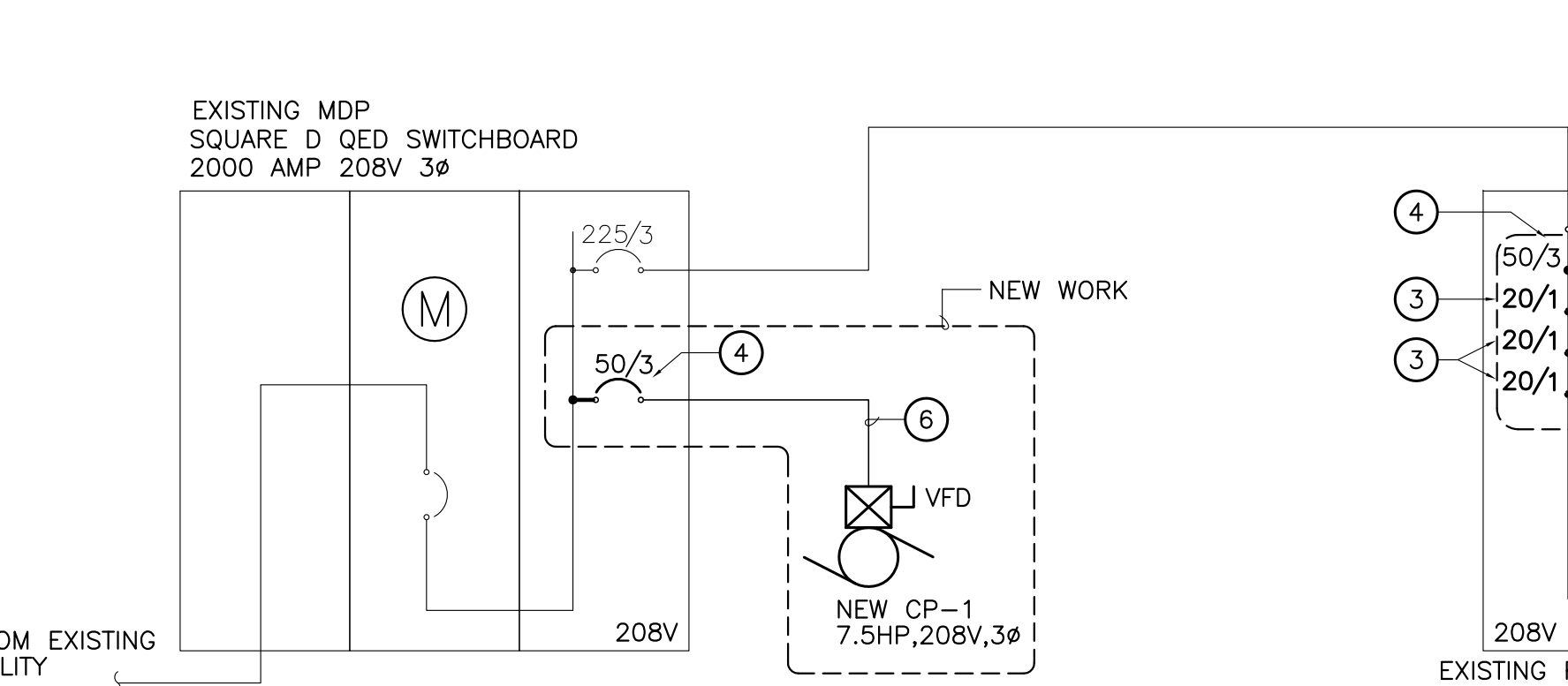
|          |       |
|----------|-------|
| Category | Sheet |
| E4       | 1     |



| LOAD ANALYSIS - EXISTING ELECTRICAL SERVICE                               |  |           |           |
|---|--|-----------|-----------|
| EXISTING 1200A (208V) SERVICE<br>(Peak 12-mo. demand per Utility Company) |  |           |           |
| 91 Power Factor   |  |           | 201.4 kW  |
| @ 125% per NEC 220.87   |  |           | 221.3 kVA |
| @ 120/208 Volt, Three Phase, Four Wire                                    |  |           | 276.6 kVA |
|   |  |           | 768.3 A   |
| PANELS A1, A2, A3, AND A4   |  |           |           |
| LOAD REMOVED  |  |           |           |
| LIGHTING  |  | -2.5 kVA  |           |
| GENERAL POWER OUTLETS   |  | -1.8 kVA  |           |
| MISCELLANEOUS   |  | -14.9 kVA |           |
| MECHANICAL  |  | -0.5 kVA  |           |
| LOAD ADDED  |  |           |           |
| LIGHTING  |  | 1.9 kVA   |           |
| GENERAL POWER OUTLETS   |  | 1.6 kVA   |           |
| MISCELLANEOUS   |  | 17.2 kVA  |           |
| MECHANICAL  |  | 0.0 kVA   |           |
| POOL EQUIPMENT  |  | 0.5 kVA   |           |
| PANEL A5  |  | 6.4 kVA   |           |
| TOTAL NET INCREASE DEMAND LOAD  |  |           | 7.9 kVA   |
| PANEL P3  |  |           |           |
| LOAD REMOVED  |  | -2.8 kVA  |           |
| TOTAL NET INCREASE DEMAND LOAD  |  |           | -2.8 kVA  |
| MDP   |  |           |           |
| LOAD ADDED (CP-1)   |  | 9.1 kVA   |           |
| TOTAL NET INCREASE DEMAND LOAD  |  |           | 9.1 kVA   |
| TOTAL DEMAND LOAD - EXISTING 2000A SERVICE                                |  |           |           |
| @ 120/208 volt, Three Phase, Four Wire                                    |  |           | 290.8 kVA |
|   |  |           | 807.8 A   |
| RATED CAPACITY - EXISTING 1200A SERVICE                                   |  |           |           |
|   |  |           | 432.0 kVA |
| AVAILABLE SPARE CAPACITY  |  |           |           |
|   |  |           | 141.2 kVA |

| EXISTING PANEL A1   |     |      |                                   | SCHEDULE          |               |               |                         | 225A MLO                                   |     |     |   |
|---|-----|------|-----------------------------------|-------------------|---------------|---------------|-------------------------|--|-----|-----|---|
| SQUARE D NQ0B   |     |      |                                   | 120/208V,3PH,4W   |               |               |                         | SUPPLIED BY 225 AMP BREAKER AND FEEDER     |     |     |   |
| CKT   | AMP | POLE | LOAD DESCRIPTION                  | PHASE A<br>VA     | PHASE B<br>VA | PHASE C<br>VA | LOAD DESCRIPTION        | POLE                                       | AMP | CKT |   |
| 1   | 20  | 1    | LTG - MEN'S LOCKER & CLOSET       |                   |               |               | EXISTING LOAD           | 1  | 20  | 2   | E |
| 3   | 20  | 1    | LTG - STAFF LOCKER RMs & HALL     |                   |               |               | LTG - MEN'S LOCKER RM   | 1  | 20  | 4   | E |
| 5   | 20  | 1    | LTG - GIRL'S LOCKER RM            |                   |               |               | REC - EXERCISE RM NORTH | 1  | 20  | 6   | E |
| 7   | 20  | 1    | REC - EXERCISE RM NORTH           |                   |               |               | REC - EXERCISE RM NORTH | 1  | 20  | 8   | E |
| 9   | 20  | 1    | REC - EXERCISE RM                 |                   |               |               | REC - EXERCISE RM NORTH | 1  | 20  | 10  | E |
| 11  | 20  | 1    | LTG - LAUNDRY & ELECTRIC RM       |                   |               |               | REC - EXERCISE RM NORTH | 1  | 20  | 12  | E |
| 13  | 30  |      | DRYER - LOWER                     |                   |               |               | WATER SLIDE PUMP        | 1  | 60  | 14  | E |
| 15  | 80  | 2    |                                   |                   |               |               |                         |  |     |     |   |
| 17  | 80  |      | DRYER - BELCO                     |                   |               |               |                         | 3  | 16  |     |   |
| 19  |     |      |                                   |                   |               |               | FILTER PUMP             | 60   | 20  |     |   |
| 21  | 3   |      |                                   |                   |               |               |                         |  |     | 22  |   |
| 23  | 20  | 1    | REC - BOY'S ENTRY & GIRL'S LOCKER |                   |               |               |                         |  |     | 24  |   |
| 25  | 20  | 1    | REC - BOY'S LOCKER RM             |                   |               |               | SPARE                   | 15   | 26  |     |   |
| 27  | 20  | 1    | LTG - OFFICE                      |                   |               |               |                         |  |     | 28  |   |
| 29  | 20  | 1    | SMALL HAND DRYER - BOY'S LOCKER   |                   |               |               |                         | 3  | 30  |     |   |
| 31  | 20  | 1    | LARGE HAND DRYER - BOY'S LOCKER   |                   |               |               | BOGEN SOUND SYSTEM      | 1  | 20  | 32  |   |
| 33  | 20  | 1    | REC - VANITY GIRL'S BATH DOOR     |                   |               |               | REC - WASHER            | 1  | 20  | 34  |   |
| 35  | 20  | 1    | REC - POOL SCOREBOARD             |                   |               |               | REC - WASHER            | 1  | 20  | 36  |   |
| 37  | 20  | 1    | REC - BOYS AND PANEL RM           |                   |               |               | REC - WASHER            | 1  | 20  | 38  |   |
| 39  | 20  | 1    | EXISTING LOAD                     |                   |               |               | DRYER - UPPER           | 3  | 40  |     |   |
| 41  | 20  | 1    | HAND DRYER - WOMAN'S LOCKER       |                   |               |               |                         |  |     | 42  |   |
| CONNECTED LOAD (VA)   |     |      |                                   |                   |               |               |                         | VA   |     |     |   |
| CONNECTED LOAD (AMPERES)  |     |      |                                   |                   |               |               |                         | A  |     |     |   |
| DEMAND LOAD (VA)  |     |      |                                   | NO CHANGE IN LOAD |               |               |                         | VA   |     |     |   |
| DEMAND LOAD (AMPERES)   |     |      |                                   |                   |               |               |                         | A  |     |     |   |
| AMPERE INTERRUPT RATING   |     |      |                                   |                   |               |               |                         | AS INDICATED BY THE FAULT CURRENT ANALYSIS |     |     |   |
| E - EXISTING LOAD   |     |      |                                   |                   |               |               |                         |  |     |     |   |
| L - PROVIDE DEVICE FOR LOCKING CIRCUIT BREAKER IN OFF POSITION AS REQUIRED BY NEC 422.31(B) |     |      |                                   |                   |               |               |                         |  |     |     |   |

| EXISTING PANEL A4  |     |      |                         | SCHEDULE          |               |               |                     | 225A MLO                                   |     |        |    |   |
|--|-----|------|-------------------------|-------------------|---------------|---------------|---------------------|--|-----|--------|----|---|
| SQUARE D NQ0B  |     |      |                         | 120/208V, 3PH, 4W |               |               |                     | SUPPLIED BY 225 AMP BREAKER AND FEEDER     |     |        |    |   |
| CKT  | AMP | POLE | LOAD DESCRIPTION        | PHASE A<br>VA     | PHASE B<br>VA | PHASE C<br>VA | LOAD DESCRIPTION    | POLE                                       | AMP | CKT    |    |   |
| 1  | 20  | 1    | REC - EXERCISE RM SOUTH | 720               | 720           |               | CHLOROMATIC CELL #1 | 1  | 15  | 2      | E  |   |
| 3  | 20  | 1    | REC - EXERCISE RM SOUTH |                   | 720           | 720           | CHLOROMATIC CELL #2 | 2  | 4   | 4      | E  |   |
| 5  | 20  | 1    | REC-ICE MACHINE         |                   |               | 840           | REC - ACUTROL       | 1  | 20  | 6      | E  |   |
| 7  | 20  | 1    | REC - PIT WEST          | 720               | 3,685         |               | NEW PANEL A5        | 1  | 20  | 8      | N  |   |
| 9  | 20  | 1    | REC - FILTER ROOM       |                   | 360           | 3,685         |                     | 1  | 20  | 10     | N  |   |
| 11   | 20  | 1    | REC - FILTER ROOM       |                   |               | 360           | 3,515               | 1  | 20  | 12     | N  |   |
| 13   | 20  | 1    | REC-FAMILY LOCKER       | 180               | 240           |               | UV CONTROLLER       | 1  | 20  | 14     | NG |   |
| 15   | 20  | 1    | REC - FILTER ROOM       |                   | 360           | 240           |                     | 1  | 20  | 16     | E  |   |
| 17   | 20  | 1    | SPANNER/DRYER           |                   |               | 1,400         | SPARE               | 1  | 20  | 18     | E  |   |
| 19   | 20  | 1    | SPARE                   | 1,500             |               |               | LTG - EXTERIOR      | 1  | 20  | 20     | E  |   |
| 21   | 20  | 1    | HEAT TRACE              |                   | 1,000         | 1,840         | LTG - POOL          | 1  | 20  | 22     | E  |   |
| 23   | 15  | 1    | CUH-2                   |                   |               | 180           | 1,840               | LTG - POOL                                 | 1   | 20     | 24 | E |
| 25   | 50  | 1    | HYDROJET PUMP (7.5HP)   | 2,920             | 1,840         |               | LTG - POOL          | 1  | 20  | 26     | E  |   |
| 27   | 20  | 1    |                         |                   | 2,920         | 1,840         | LTG - POOL          | 1  | 20  | 28     | E  |   |
| 29   | 3   | 3    |                         |                   |               | 2,920         | 1,840               | LTG - POOL                                 | 1   | 20     | 30 | E |
| 31   | 20  | 1    | REC - FILTER ROOM       | 720               | 1,840         |               | LTG - POOL          | 1  | 20  | 32     | E  |   |
| 33   | 20  | 1    | REC - FILTER ROOM       |                   | 540           | 1,840         | LTG - POOL          | 1  | 20  | 34     | E  |   |
| 35   | 20  | 1    | REC - FILTER ROOM       |                   |               | 720           | 1,840               | LTG - POOL                                 | 1   | 20     | 36 | E |
| 37   | 20  | 1    | SP-1                    | 950               | 1,840         |               | LTG - POOL          | 1  | 20  | 38     | E  |   |
| 39   | 15  | 1    | UH-1                    |                   | 180           | 1,840         | LTG - POOL          | 1  | 20  | 40     | E  |   |
| 41   | -   | 1    | SPACE                   |                   |               |               | 720                 | 1  | 20  | 42     | E  |   |
| CONNECTED LOAD (VA)  |     |      |                         | 17,875            | 18,085        | 16,535        |                     |  |     | 52,495 | VA |   |
| CONNECTED LOAD (AMPERES)   |     |      |                         | 149               | 151           | 138           |                     |  |     | 146    | A  |   |
| DEMAND LOAD (VA)   |     |      |                         | 20,360            | 20,905        | 18,625        |                     |  |     | 60,090 | VA |   |
| DEMAND LOAD (AMPERES)  |     |      |                         | 170               | 174           | 157           |                     |  |     | 167    | A  |   |
| AMPERE INTERRUPT RATING  |     |      |                         |                   |               |               |                     | AS INDICATED BY THE FAULT CURRENT ANALYSIS |     |        |    |   |
| E - EXISTING LOAD  |     |      |                         |                   |               |               |                     |  |     |        |    |   |
| L - PROVIDE DEVICE FOR LOCKING CIRCUIT BREAKER IN OFF POSITION AS REQUIRED BY NEC 422.31(B)                  |     |      |                         |                   |               |               |                     |  |     |        |    |   |
| R - NEW LOAD ADDED TO EXISTING SPARE CIRCUIT BREAKER   |     |      |                         |                   |               |               |                     |  |     |        |    |   |
| N - REMOVE EXISTING CIRCUIT BREAKERS, PROVIDE NEW CIRCUIT BREAKER COMPATIBLE WITH AND OF THE SAME AIC RATING |     |      |                         |                   |               |               |                     |  |     |        |    |   |
| AS EXISTING FOR NEW LOAD TO BE ADDED.  |     |      |                         |                   |               |               |                     |  |     |        |    |   |
| G - CIRCUIT BREAKER SHALL BE 5mA GFCI TYPE.  |     |      |                         |                   |               |               |                     |  |     |        |    |   |



1 ELECTRICAL DISTRIBUTION SYSTEM - PARTIAL SINGLE LINE DIAGRAM  
SCALE: NONE

| EXISTING PANEL P3   |     |      |                         | SCHEDULE          |               |               | 225A MLO                                   |      |     |     |   |
|---|-----|------|-------------------------|-------------------|---------------|---------------|--|------|-----|-----|---|
| GE NLAB   |     |      |                         | 120/208V, 3PH, 4W |               |               | SUPPLIED BY 100 AMP BREAKER AND FEEDER     |      |     |     |   |
| CKT   | AMP | POLE | LOAD DESCRIPTION        | PHASE A<br>VA     | PHASE B<br>VA | PHASE C<br>VA | LOAD DESCRIPTION                           | POLE | AMP | CKT |   |
| 1   | 15  | 1    | HVU 1                   |                   |               |               | HVU 2                                      | 1    | 15  | 2   | E |
| 3   |     |      |                         |                   |               |               |  |      |     |     | E |
| 5   | 15  | 3    |                         |                   |               |               |  | 3    | 15  | 8   | E |
| 7   | 15  | 1    | BOILER 3                |                   |               |               | BOILER 2                                   |      |     | 10  | E |
| 9   |     |      |                         |                   |               |               |  |      |     | 12  | E |
| 11  | 15  | 3    |                         |                   |               |               |  | 3    | 15  | 14  | E |
| 13  | 15  | 1    | PUMP 2A                 |                   |               |               | BOILER 1                                   | 3    | 12  | 16  | E |
| 15  |     |      |                         |                   |               |               |  | 20   | 14  | 18  | E |
| 17  | 15  | 3    |                         |                   |               |               |  |      |     | 20  | E |
| 19  | 15  | 1    | SPARE                   |                   |               |               |  | 3    | 10  |     | E |
| 21  |     |      |                         |                   |               |               | BOILER ROOM RECEPT                         | 1    | 15  | 20  | E |
| 23  |     |      |                         |                   |               |               | ROOF FAN, STAFF BATH                       | 1    | 20  | 22  | E |
| 25  | 15  | 1    | BOILER ROOM FAN         |                   |               |               | BOILER 2 CONTROL                           | 1    | 20  | 24  | E |
| 27  | 20  | 1    | BOILER ROOM RECEPTACLES |                   |               |               | BOILER 3 CONTROL                           | 1    | 20  | 26  | E |
| 29  | 20  | 1    | COMPRESSOR              |                   |               |               | HOW WSAER HEATER                           | 1    | 20  | 28  | E |
| 31  | 30  | 1    | AIR COMPRESSOR          |                   |               |               | HOT WATER CIRC PUMP                        | 1    | 20  | 30  | E |
| 33  |     |      |                         |                   |               |               | CONTROL POWER                              | 1    | 20  | 32  | E |
| 35  | 3   | 3    |                         |                   |               |               | PUMP 3 P2 ELEMENTARY                       | 1    | 20  | 34  | E |
| 37  | -   | 1    | SPACE                   |                   |               |               | DAY TANK                                   | 1    | 15  | 36  | E |
| 39  | -   | 1    | SPACE                   |                   |               |               | SPACE                                      | 1    | -   | 38  | E |
| 41  | -   | 1    | SPACE                   |                   |               |               | SPACE                                      | 1    | -   | 40  | E |
|   |     |      |                         |                   |               |               | SPACE                                      | 1    | -   | 42  | E |
| CONNECTED LOAD (VA)   |     |      |                         |                   |               |               |  |      | VA  |     |   |
| CONNECTED LOAD (AMPERES)                                      |     |      |                         |                   |               |               |  |      | VA  |     |   |
| DEMAND LOAD (VA)  |     |      |                         |                   |               |               | NO NEW LOAD ADDED                          |      | VA  |     |   |
| DEMAND LOAD (AMPERES)   |     |      |                         |                   |               |               |  |      | VA  |     |   |
| AMPERE INTERRUPT RATING                                       |     |      |                         |                   |               |               |  |      | VA  |     |   |
|   |     |      |                         |                   |               |               | AS INDICATED BY THE FAULT CURRENT ANALYSIS |      |     |     |   |
| E - EXISTING LOAD   |     |      |                         |                   |               |               |  |      |     |     |   |
| R - EXISTING LOAD REMOVED, CIRCUIT BREAKER TO BECOME A SPARE. |     |      |                         |                   |               |               |  |      |     |     |   |

| EXISTING PANEL A2  |     |      |                             | SCHEDULE          |               |               |                          | 225A MLO                                   |     |     |   |
|--|-----|------|-----------------------------|-------------------|---------------|---------------|--------------------------|--|-----|-----|---|
| SQUARE D NQ0B  |     |      |                             | 120/208V, 3PH, 4W |               |               |                          | SUPPLIED BY 200 AMP BREAKER AND FEEDER     |     |     |   |
| CKT  | AMP | POLE | LOAD DESCRIPTION            | PHASE A<br>VA     | PHASE B<br>VA | PHASE C<br>VA | LOAD DESCRIPTION         | POLE                                       | AMP | CKT |   |
| 1  | 20  | 1    | LTG - ABOVE STEP & CORRIDOR | 980               | 1,200         |               | LTG - LOUNGE AREA        | 1  | 20  | 2   | E |
| 3  | 20  | 1    | LTG - UPSTAIRS BATH         |                   | 1,000         |               | SPARE                    | 1  | 20  | 4   | E |
| 5  | 20  | 1    | UNIT HEATER FRONT VEST      |                   |               | 860           |                          | 3  | 8   | 8   | E |
| 7  | 20  | 1    | LTG - AIR HANDELING         | 1,090             |               |               |                          | 3  | 8   | 10  | E |
| 9  | 20  | 1    | HEAT TRACE                  |                   | 1,000         |               | SPARE                    | 15   | 10  | 12  | E |
| 11   | 20  | 1    | SPARE                       |                   |               |               |                          | 2  | 12  | 14  | E |
| 13   | 20  | 1    | REC - LOUNGE & UPPER BATH   | 1,030             | 7,480         |               | AIR HANDLING UNIT        | 1  | 100 | 16  | E |
| 15   | 20  | 1    | SPARE                       |                   | 7,480         |               |                          | 3  | 16  | 18  | E |
| 17   | 20  | 1    | LTG - EXERCISE RM           |                   |               | 620           | 7,480                    | 3  | 18  | 20  | E |
| 19   | 20  | 1    | REC - AIR HANDLING RM       | 900               | 1,200         |               | REC - VENDING            | 1  | 20  | 22  | E |
| 21   | 20  | 1    | SPARE                       |                   | 1,200         |               | REC - VENDING            | 1  | 20  | 24  | E |
| 23   | -   | 1    | SPACE                       |                   |               | 1,200         | REC - VENDING            | 1  | 20  | 26  | E |
| 25   | 20  | 1    | EMS CONTROL                 | 180               | 180           |               | FIRE ALARM BOOSTER PANEL | 1  | 20  | 28  | E |
| 27   | 20  | 1    | SPARE                       |                   |               | 800           | PERIMETER LIGHTS POOL    | 1  | 20  | 30  | E |
| 29   | 30  | 3    |                             |                   | 800           |               | PERIMETER LIGHTS POOL    | 1  | 20  | 32  | E |
| 31   | 50  | 3    | SAUNA                       |                   | 4,620         | 800           | PERIMETER LIGHTS POOL    | 1  | 15  | 34  | E |
| 33   | 50  | 3    |                             |                   |               | 4,620         | 120                      | 1  | 20  | 36  | E |
| 35   | 30  | 3    |                             | 4,620             | 2,670         |               | CUH-1                    | 3  | 30  | 38  | E |
| 37   | 30  | 3    |                             |                   | 2,670         |               |                          | 3  | 40  | 40  | E |
| 39   | -   | 1    | SPACE                       |                   |               |               |                          | 3  | 42  |     | E |
| 41   | -   | 1    | SPACE                       |                   |               |               |                          | 3  | 42  |     | E |
| CONNECTED LOAD (VA)  |     |      |                             |                   |               |               |                          | VA   |     |     |   |
| CONNECTED LOAD (AMPERES)   |     |      |                             |                   |               |               |                          | VA   |     |     |   |
| DEMAND LOAD (VA)   |     |      |                             | NO CHANGE IN LOAD |               |               |                          | VA   |     |     |   |
| DEMAND LOAD (AMPERES)  |     |      |                             |                   |               |               |                          | VA   |     |     |   |
| AMPERE INTERRUPT RATING  |     |      |                             |                   |               |               |                          | AS INDICATED BY THE FAULT CURRENT ANALYSIS |     |     |   |
| E - EXISTING LOAD  |     |      |                             |                   |               |               |                          |  |     |     |   |
| L - PROVIDE DEVICE FOR LOCKING CIRCUIT BREAKER IN OFF POSITION AS REQUIRED BY NEC 422.31(B)          |     |      |                             |                   |               |               |                          |  |     |     |   |
| R - CIRCUIT BREAKER HANDLE IS BROKEN, REPLACE CIRCUIT BREAKER AND RECONNECT EXISTING RELOCATED LOAD. |     |      |                             |                   |               |               |                          |  |     |     |   |