

# KCHA - 600 BUILDING - BATHROOM REMODEL

## PROJECT TEAM

**OWNER:**  
KING COUNTY HOUSING AUTHORITY  
700 ANDOVER PARK WEST  
SUITE C  
SEATTLE, WA 98188  
(206) 826-5348  
PATRICK KAAPANA  
<PatrickK@kcha.org>

**ARCHITECT:**  
LAWHEAD ARCHITECTS P.S.  
1239 120TH AVENUE NORTHEAST  
SUITE D  
BELLEVUE, WA 98005  
(425) 556-1220  
FRANK LAWHEAD  
<FLawhead@Lawhead.com>

**MECHANICAL/ ELECTRICAL:**  
HULTZ BHU ENGINEERS INC.  
1111 FAWCETT AVE.  
SUITE 100  
TACOMA, WA 98402  
(253) 383-3257  
RICK HULTZ  
<RHultz@HultzBHU.com>

## PROJECT DESCRIPTION

THE PROPOSED PROJECT CONSISTS OF INTERIOR RENOVATIONS TO MALE AND FEMALE RESTROOM FACILITIES WITH MATCHING PLAN LAYOUTS ON THE 1ST AND 2ND FLOORS IN THE PUBLIC CORE OF THE KING COUNTY HOUSING AUTHORITY CENTRAL OFFICE 600 BUILDING. THE BUILDING AND RESTROOMS WERE CONSTRUCTED IN 1980 AND ORIGINAL DRAWINGS PERMITTED UNDER THE 1976 EDITION OF THE UNIFORM BUILDING CODE. THE INTENDED SCOPE OF THE PROPOSED PROJECT IS LIMITED TO THESE RESTROOMS AND WOULD INCLUDE REPLACING EXISTING WALL AND FLOOR FINISHES, MODIFYING EXISTING LIGHTING, REPLACING PLUMBING FIXTURES, REPLACING TOILET PARTITIONS, REPLACING LAVATORY CASEWORK, REPLACING TOILET ACCESSORIES, MAKING MODIFICATIONS TO THE CEILING ARCHITECTURE TO INSTALL A COFFERED CEILING DESIGN, AND RELATED MECHANICAL AND ELECTRICAL MODIFICATIONS TO ACCOMMODATE THE AFOREMENTIONED WORK.

## ARCHITECTURAL ABBREVIATIONS

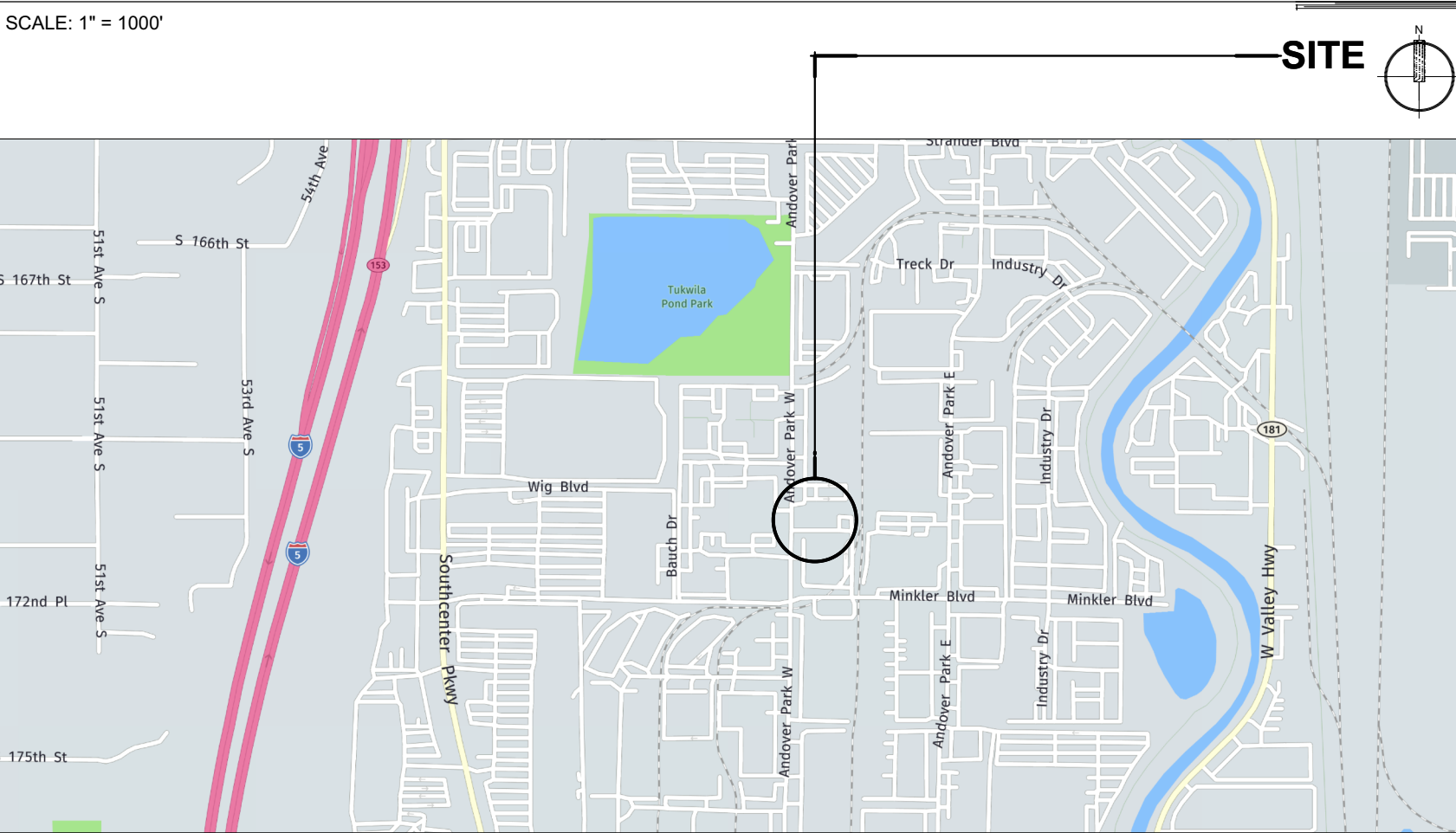
A.C.T.	ACOUSTIC CEILING TILE	ELEV.	ELEVATION/ELEVATIONS	I.D.	INSIDE DIAMETER	R.O.	ROUGH OPENING
A.F.F.	ABOVE FINISH FLOOR	ENL.	ENLARGED	IN.	INCHES	Ra	RADIUS
APPROX.	APPROXIMATE	EQ.	EQUAL	INFO.	INFORMATION	RCP	REFLECTED CEILING PLAN
ARCH.	ARCHITECTURAL	EQUIP.	EQUIPMENT	INSUL.	INSULATION	REF	REFER / REFERENCE
BLDG.	BUILDING	EXIST.	EXISTING	INT.	INTERIOR	REFR.	REFRIGERATOR
BLKG.	BLOCKING	EXP.	EXPOSED	LAV.	LAVATORY	REIN.	REINFORCING
BOTT.	BOTTOM	EXT.	EXTERIOR	LB.	POUND	REQ.	REQUIRED / REQUIREMENTS
C.I.	CAST IRON	F.D.	FLOOR DRAIN	LN.FT.	LINEAR FEET	RM.	ROOM
C.J.	CONTROL JOINT	F.E.	FIRE EXTINGUISHER	LOC.	LOCATE	S.S.	STAINLESS STEEL
C.O.	CONSTRUCTION JOINT	F.E.C.	FIRE EXTINGUISHER CABINET	MANUF.	MANUFACTURER	SCWD	SOLID CORE WOOD DOOR
C.T.	CERAMIC TILE	CALL-OUT	FACTORY FINISH	MATL.	MATERIAL	SECT.	SECTION
CEIL.	CEILING	F.F.E.	FINISH FLOOR ELEVATION	MAX.	MAXIMUM	SIM.	SIMILAR
CL.	CENTERLINE	FAC.	FIRE HOSE CABINET	MECH.	MECHANICAL	SL	SEAL
CLR.	CLEAR	FO.	FACE OF	MEZZ.	MEZZANINE	SPEC.	SPECIFICATIONS
COL.	COLUMN	F.O.I.C.	FURNISHED BY OWNER	MFR.	MANUFACTURER	SQ.	SQUARE
CONC.	CONCRETE	F.O.I.O.	FURNISHED BY OWNER	MIN.	MINIMUM	STD.	STANDARD
CONN.	CONNECTION	F.R.P.	FIBER REINFORCED PLASTIC	MISC.	MISCELLANEOUS	STL.	STEEL
CONST.	CONSTRUCTION	F.V.	FIELD VERIFY	MTL.	METAL	STRUCT.	STRUCTURAL
CONT.	CONTINUOUS	FDN.	FOUNDATION	N.O.	NOT IN CONTRACT	SV	SHEET VINYL
COORD.	COORDINATE	FIN.	FINISH	N.T.S.	NOT TO SCALE	SYST.	SYSTEM
CSK.	COUNTERSINK	FT.	FOOT/FEET	O.C.	ON CENTER	T.O.	TOP OF...
CTR.	CENTER	FTG.	FOOTING	NO.	NUMBER	TYP.	TYPICAL
D.F.	DRINKING FOUNTAIN	GA.	GAUGE	O.D.	OUTSIDE DIAMETER	U.N.O.	UNLESS NOTED OTHERWISE
D.S.	DOWNSPOUT	GAL.	GALLON	OCC.	OCCUPANCY	VCT	VINYL COMPOSITE TILE
DBL.	DOUBLE	GALV.	GALVANIZED	OCC.'S	OCCUPANTS	VERT.	VERTICAL
DEPT.	DEPARTMENT	GWB	GYPSON WALLBOARD	OPP.	OPPOSITE	W.C.	WATER CLOSET
DIA.	DIAMETER	H.C.	HOLLOW METAL	P.LAM	PLASTIC LAMINATE	W/	WITH
DIM.	DIMENSION	H.C.	HOLLOW METAL	P.E.M.B.	PRE-ENGINEERED METAL BUILDING	W/O	WITHOUT
E.I.	ELASTOMERIC JOINT / EXPANSION JOINT	HR.	HOUR	P.L	PROPERTY LINE	WD	WOOD
EA	ELECTRICAL	HRIZ.	HORIZONTAL	PLUMB.	PLUMBING	WDW	WINDOW
ELECT.		HT.	HEIGHT	PT.	POINT	WGWB	WATER RESISTANT GYPSON WALLBOARD
						WT.	WEIGHT

## ARCHITECTURAL SYMBOLS

	DOOR C.O.		KEY NOTE		BUILDING SECTION
	WINDOW C.O.		CEILING OR HEADER HEIGHT		PARTIAL SECTION
	WALL C.O. (X'-X" = HEIGHT)		INTERIOR ELEVATIONS		WALL SECTION
	FLAG NOTE		BUILDING GRIDS		DETAIL CALL-OUT
	REVISION NOTE		DETAIL & ENLARGED PLAN CALL-OUTS		
	PARTIAL INTERIOR ELEVATIONS				

## VICINITY MAP ....

600 ANDOVER PARK W, TUKWILA, WA 98188





GENERAL NOTES:

1. SEE MECHANICAL & ELECTRICAL DRAWINGS FOR MORE INFORMATION NOT SHOWN HERE.
2. ALL NOTES ARE TYPICAL FOR BOTH MEN'S AND WOMEN'S RESTROOMS AT BOTH FLOORS. SURVEY EXISTING RESTROOMS FOR A COMPLETE ACCOUNTING OF EXISTING FIXTURES, EQUIPMENT, RECEPTACLES, SIGNAGE, ETC. WITHIN PROJECT SCOPE OF WORK.
3. PROVIDE ADDITIONAL DEMOLITION NOT SHOWN HERE IN ORDER TO MAKE WAY FOR NEW CONSTRUCTION. REFER TO ALL DRAWINGS & SPECIFICATIONS.



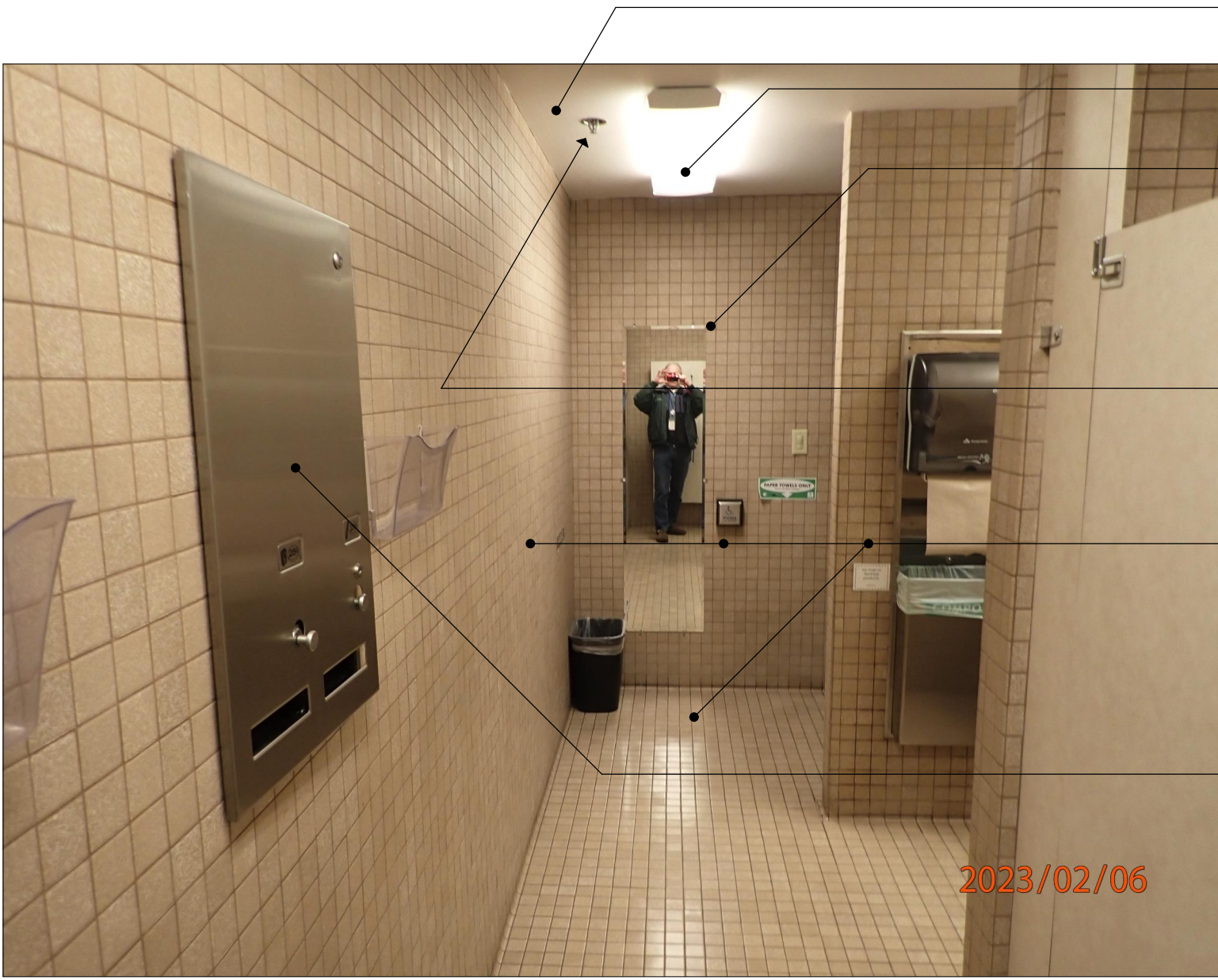
- REMOVE / SALVAGE FIRE ALARM EQUIPMENT FOR REUSE AT ORIGINAL LOCATIONS.
- REMOVE / TEMPORARILY PROTECT FIRE SPRINKLER SYSTEM WHERE NECESSARY TO MAKE WAY FOR NEW SOFFITS AND COFFERED CEILINGS.
- DEMO. LIGHTING. SALVAGE LIGHTING WHERE BEING REUSED. SEE ELEC. FOR MORE INFO.
- DEMO. TOILET PARTITIONS.
- REMOVE ALL TOILET ACCESSORIES. RETURN TO OWNER.
- DEMO EXISTING CEILING FINISHES AND SUPPORTING CONSTRUCTION TO MAKE WAY FOR NEW SOFFITS AND COFFERED CEILINGS.
- DEMO. ALL CERAMIC TILE WALL AND FLOOR FINISHES. DEMO. UNDERLYING WALL SHEATHING MATERIALS, AND FLOOR UNDERLAYMENTS DOWN TO SUBSTRATE — CONCRETE SLAB ON GRADE AT THE 1ST FLOOR & CONCRETE TOPPING AT THE 2ND FLOOR. COORDINATE WITH OWNER TO ASSESS QUALITY OF SUBSTRATE AFTER DEMOLITION. ENSURE SURFACES ARE CLEAN AND LEVEL AND READY TO RECEIVE NEW WORK.

1 WOMEN'S RESTROOM - SOUTH PERSPECTIVE



- PROTECT DOORS DURING DEMOLITION.
- DEMO. LIGHTING. SALVAGE LIGHTING WHERE BEING REUSED. SEE ELEC. FOR MORE INFO.
- REMOVE ALL TOILET ACCESSORIES. RETURN TO OWNER.
- DEMO. MIRRORS.
- DEMO. PLUMBING FIXTURES (U.N.O.). SEE MECH. FOR MORE INFO.
- DEMO. CASEWORK.

2 WOMEN'S RESTROOM - NORTHEAST PERSPECTIVE



- DEMO EXISTING CEILING FINISHES AND SUPPORTING CONSTRUCTION TO MAKE WAY FOR NEW SOFFITS AND COFFERED CEILINGS.
- DEMO. LIGHTING. SALVAGE LIGHTING WHERE BEING REUSED. SEE ELEC. FOR MORE INFO.
- DEMO. MIRRORS.
- REMOVE / TEMPORARILY PROTECT FIRE SPRINKLER SYSTEM WHERE NECESSARY TO MAKE WAY FOR NEW SOFFITS AND COFFERED CEILINGS.
- DEMO. ALL CERAMIC TILE WALL AND FLOOR FINISHES. DEMO. UNDERLYING WALL SHEATHING MATERIALS, AND FLOOR UNDERLAYMENTS DOWN TO SUBSTRATE — CONCRETE SLAB ON GRADE AT THE 1ST FLOOR & CONCRETE TOPPING AT THE 2ND FLOOR. COORDINATE WITH OWNER TO ASSESS QUALITY OF SUBSTRATE AFTER DEMOLITION. ENSURE SURFACES ARE CLEAN AND LEVEL AND READY TO RECEIVE NEW WORK.
- REMOVE ALL TOILET ACCESSORIES. RETURN TO OWNER.

3 WOMEN'S RESTROOM - NORTH PERSPECTIVE



- DEMO. PLUMBING FIXTURES (U.N.O.). SEE MECH. FOR MORE INFO.
- REMOVE ALL TOILET ACCESSORIES. RETURN TO OWNER.
- REMOVE ALL TOILET ACCESSORIES. RETURN TO OWNER.
- DEMO. CASEWORK.
- DEMO. TOILET PARTITIONS.
- EXISTING URINAL TO REMAIN. PROTECT. MODIFY VALVES PER MECH.

4 MEN'S RESTROOM - NORTHWEST PERSPECTIVE



- REMOVE / TEMPORARILY PROTECT FIRE SPRINKLER SYSTEM WHERE NECESSARY TO MAKE WAY FOR NEW SOFFITS AND COFFERED CEILINGS.
- PROTECT DOORS DURING DEMOLITION.
- DEMO. LIGHTING. SALVAGE LIGHTING WHERE BEING REUSED. SEE ELEC. FOR MORE INFO.
- DEMO GRILLES. SEE MECH.
- DEMO. TOILET PARTITIONS.
- DEMO EXISTING CEILING FINISHES AND SUPPORTING CONSTRUCTION TO MAKE WAY FOR NEW SOFFITS AND COFFERED CEILINGS.
- DEMO. PLUMBING FIXTURES (U.N.O.). SEE MECH. FOR MORE INFO.
- DEMO. ALL CERAMIC TILE WALL AND FLOOR FINISHES. DEMO. UNDERLYING WALL SHEATHING MATERIALS, AND FLOOR UNDERLAYMENTS DOWN TO SUBSTRATE — CONCRETE SLAB ON GRADE AT THE 1ST FLOOR & CONCRETE TOPPING AT THE 2ND FLOOR. COORDINATE WITH OWNER TO ASSESS QUALITY OF SUBSTRATE AFTER DEMOLITION. ENSURE SURFACES ARE CLEAN AND LEVEL AND READY TO RECEIVE NEW WORK.

5 MEN'S RESTROOM - SOUTH PERSPECTIVE



- REMOVE / SALVAGE FIRE ALARM EQUIPMENT FOR REUSE AT ORIGINAL LOCATIONS.
- DEMO. LIGHTING. SALVAGE LIGHTING WHERE BEING REUSED. SEE ELEC. FOR MORE INFO.
- REMOVE / SALVAGE SWITCH & RECEPTACLE PLATES FOR REINSTALLATION AT ORIGINAL LOCATIONS. SEE ELEC.
- REMOVE / SALVAGE SIGNAGE FOR REINSTALLATION AT ORIGINAL LOCATIONS.
- REMOVE / SALVAGE DOOR HARDWARE FOR REINSTALLATION AT ORIGINAL LOCATIONS WHERE AFFECTED BY WORK.
- DEMO EXISTING CEILING FINISHES AND SUPPORTING CONSTRUCTION TO MAKE WAY FOR NEW SOFFITS AND COFFERED CEILINGS.
- DEMO. TOILET PARTITIONS.

6 MEN'S RESTROOM - NORTH PERSPECTIVE



1. FIELD VERIFY ALL EXISTING DIMENSIONS.

9 120TH AVE, N.E., STE. D  
BELLEVUE, WA 98005  
(425) 556-1220

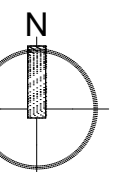
NATURE...

4565 REGISTERED ARCHITECT  
FRANK E. LAWHEAD  
STATE OF WASHINGTON

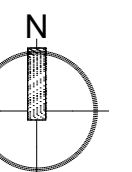
TURNER...



## 2ND FLOOR PLAN

$$\underline{3/32'' = 1'-0''}$$


## 1ST FLOOR PLAN

$$\frac{3}{32}'' = 1'-0''$$


## CASE...

## Construction Documents

NO...

-08

TE...

23/24

SHEET TITLE...

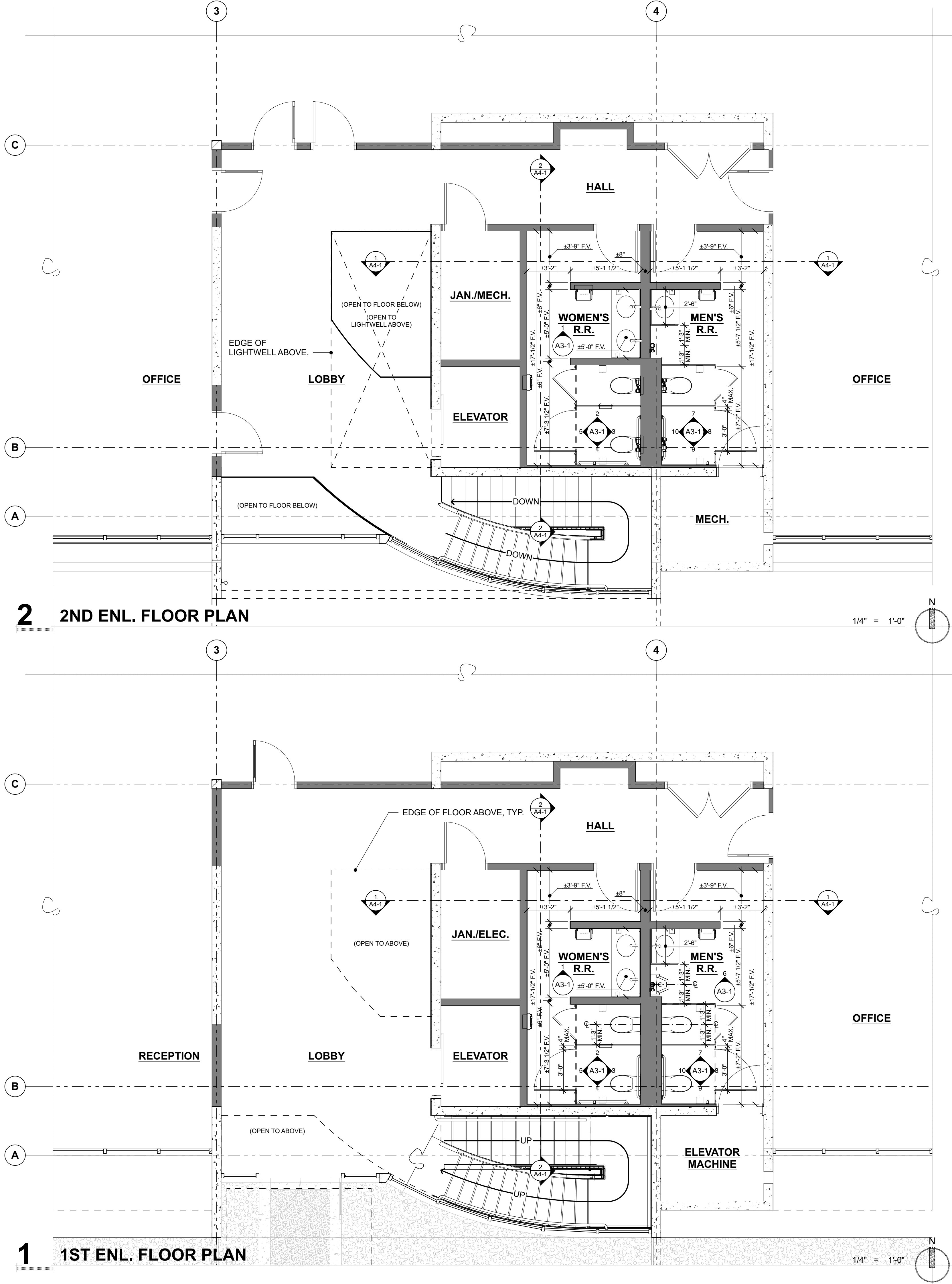
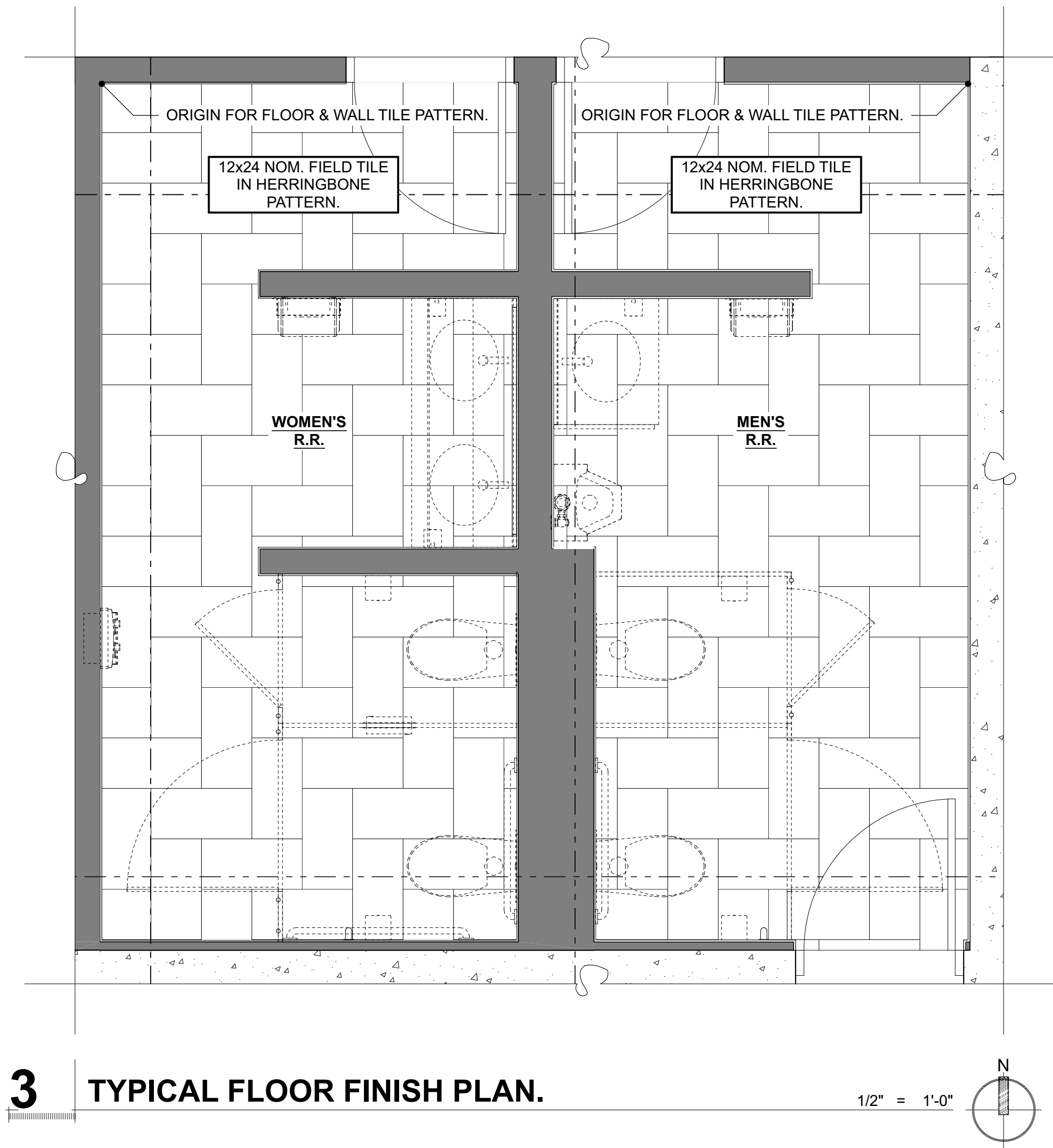
## Floor Plans

SHEET NO...

## A2-1

GENERAL NOTES:

1. SEE MECHANICAL & ELECTRICAL FOR ADDITIONAL INFORMATION NOT SHOWN HERE.
2. FIELD VERIFY ALL EXISTING DIMENSIONS.



LAWHEAD  
ARCHITECTS  
P.S.

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BELLEVUE, WA 98005  
(425) 556-1220

SIGNATURE...

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REGISTERED  
ARCHITECT  
FRANK E. LAWHEAD  
STATE OF WASHINGTON

OWNER...

King County  
Housing  
Authority

King County Housing Authority  
600 BUILDING  
Bathroom Remodel

PHASE...  
Construction  
Documents

JOB NO...

24-08

DATE...

9/23/24

SHEET TITLE...

Enl. Floor Plans

SHEET NO...

A2-2



GENERAL NOTES:

1. SEE MECHANICAL & ELECTRICAL FOR ADDITIONAL INFORMATION NOT SHOWN HERE.
2. FIELD VERIFY ALL EXISTING DIMENSIONS.
3. MODIFY EXISTING SPRINKLER SYSTEM TO ACCOMMODATE NEW COFFERED CEILINGS.
4. REINSTALL FIRE ALARM SYSTEM COMPONENTS AT ORIGINAL LOCATIONS WHERE TEMPORARILY REMOVED DURING DEMOLITION.
5. REINSTALL EXISTING CEILING GRILLS WHERE TEMPORARILY REMOVED DURING DEMOLITION.
6. REINSTALL EXISTING LIGHTING WHERE BEING SALVAGED FOR REUSE.

RCP LEGEND

GWB  
(GYPSUM WALL BOARD)

ACT  
(ACOUSTIC CEILING TILE)

PERFORATED WOOD VENEER ACT  
(ACOUSTIC CEILING TILE)

EXPOSED TO  
STRUCTURE ABOVE

LAWHEAD  
ARCHITECTS  
P.S.

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SIGNATURE...

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600 BUILDING

Bathroom Remodel

PHASE...

Construction  
Documents

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DATE...

9/23/24

SHEET TITLE...

Enl. Reflected Ceiling  
Plans

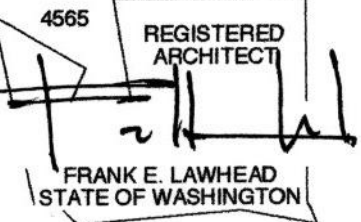
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A2-3

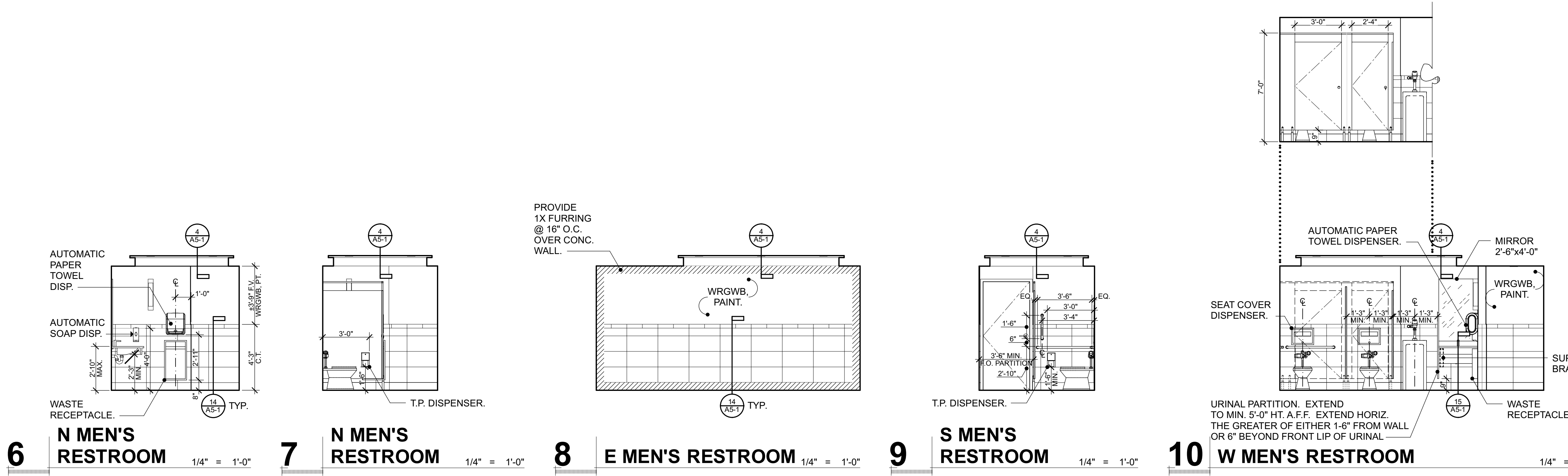
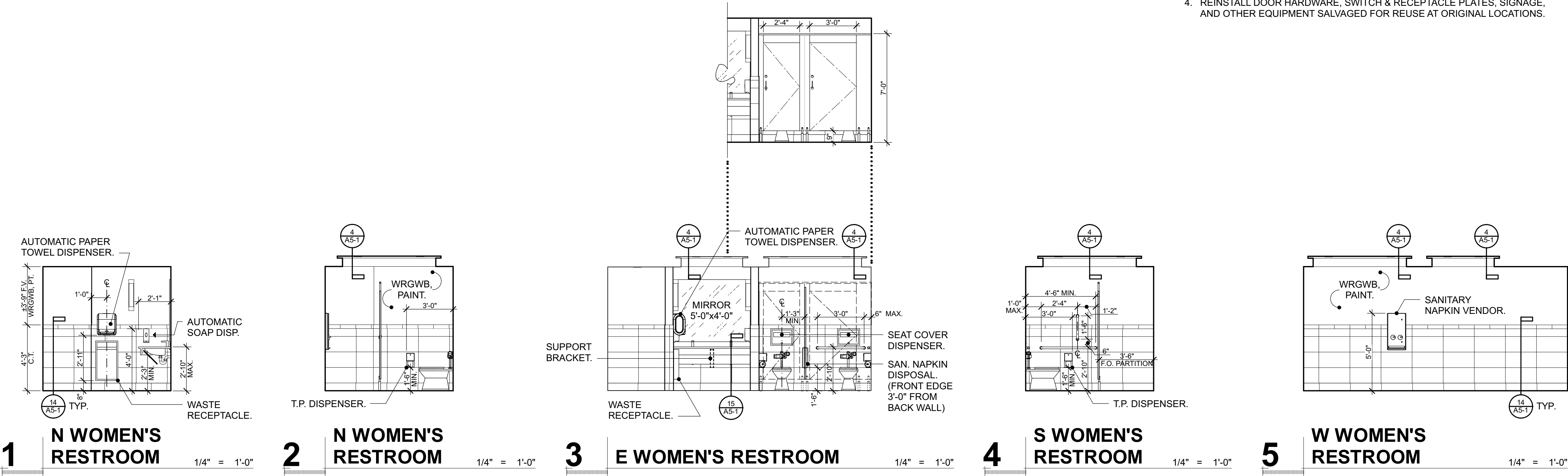


- GENERAL NOTES:**
1. SEE MECHANICAL & ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION NOT SHOWN HERE.
  2. FIELD VERIFY ALL EXISTING DIMENSIONS.
  3. MODIFY EXISTING WALL FRAMING AS REQUIRED TO MAKE WAY FOR RECESSED FIXTURES, & TO PROVIDE ADDITIONAL SUPPORT BLOCKING FOR SURFACE-MOUNTED FIXTURES. REMOVE / REPLACE EXISTING INSULATION DISTURBED DURING WORK.
  4. REINSTALL DOOR HARDWARE, SWITCH & RECEPTACLE PLATES, SIGNAGE, AND OTHER EQUIPMENT SALVAGED FOR REUSE AT ORIGINAL LOCATIONS.

SIGNATURE...



OWNER...



PHASE...

**Construction Documents**

JOB NO...

**24-08**

DATE...

**9/23/24**

SHEET TITLE...

**Interior Elevations**

SHEET NO...



FINISH LEGEND				
NO.	MATERIAL	MANUFACTURER	PRODUCT SPEC.   GROUP	COLOR SELECTION   FINISH
①	PAINT	'SHERWIN-WILLIAMS'	INTERIOR ACRYLIC LATEX	EIDER WHITE (SW 7014)   HIGH GLOSS
②	PAINT	'SHERWIN-WILLIAMS'	INTERIOR ACRYLIC LATEX	HIGH REFLECTIVE WHITE (SW 7757)   HIGH GLOSS
③	QUARTZ RESIN	'CORIAN'	QUARTZ PORTFOLIO	VENETIA CREAM   SINGLE POLISHED
④	PLASTIC LAMINATE	'WILSONART'	PREMIUM LAMINATE (HW107)	DAINTREE (8235K-05) TIMBERGRAIN FINISH WITH 'AEON'   #60 MATTE FINISH
⑤	CERAMIC TILE	'DAL TILE'	COLORBODY PORCELAIN   'STONE ATTACHÉ' COLLECTION   'DIGNITARY' SERIES	SUPERIOR TAUPE (DR08)
⑥	CERAMIC TILE	'DAL TILE'	COLORBODY PORCELAIN   'STONE ATTACHÉ' COLLECTION   'HAUTE MONDE' SERIES	GLITTERATI GRANITE (HM03)
⑦	CERAMIC TILE	'DAL TILE'	COLORBODY PORCELAIN   'STONE ATTACHÉ' COLLECTION   'DIGNITARY' SERIES	SUPERIOR TAUPE (DR08)
⑧	CERAMIC TILE	'DAL TILE'	COLORBODY PORCELAIN   'STONE ATTACHÉ' COLLECTION   'DIGNITARY' SERIES	SUPERIOR TAUPE (DR08)
⑨	PERFORATED WOOD CEILING TILE	'ARMSTRONG'	WOODWORKS VENEER	NATURAL VARIATIONS MAPLE (NMP)

SIGNATURE...

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REGISTERED  
ARCHITECT  
FRANK E. LAWHEAD  
STATE OF WASHINGTON

OWNER...



King County Housing Authority  
600 BUILDING  
Bathroom Remodel

PHASE...  
Construction Documents

JOB NO...  
24-08

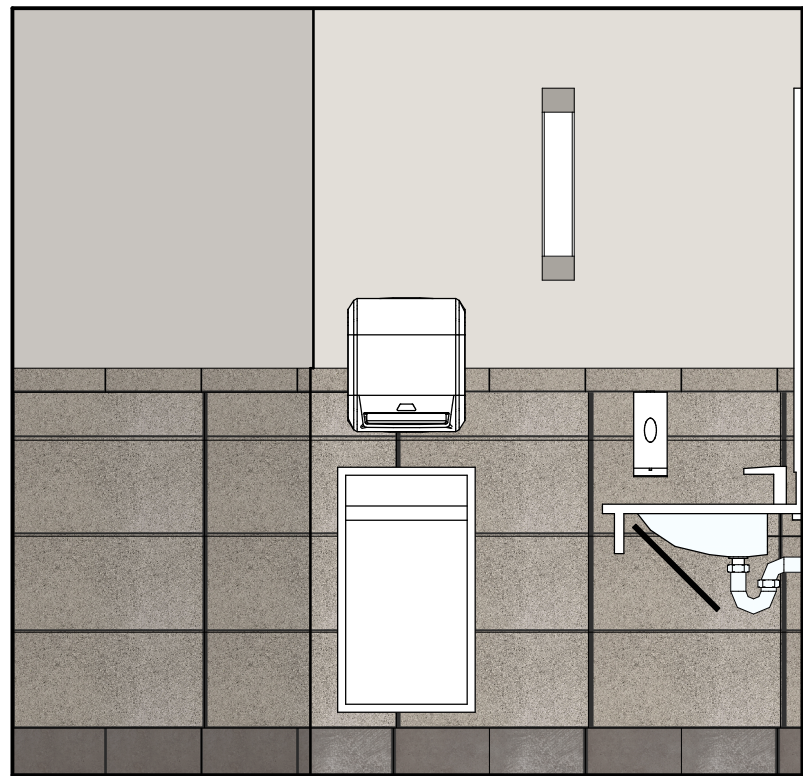
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9/23/24

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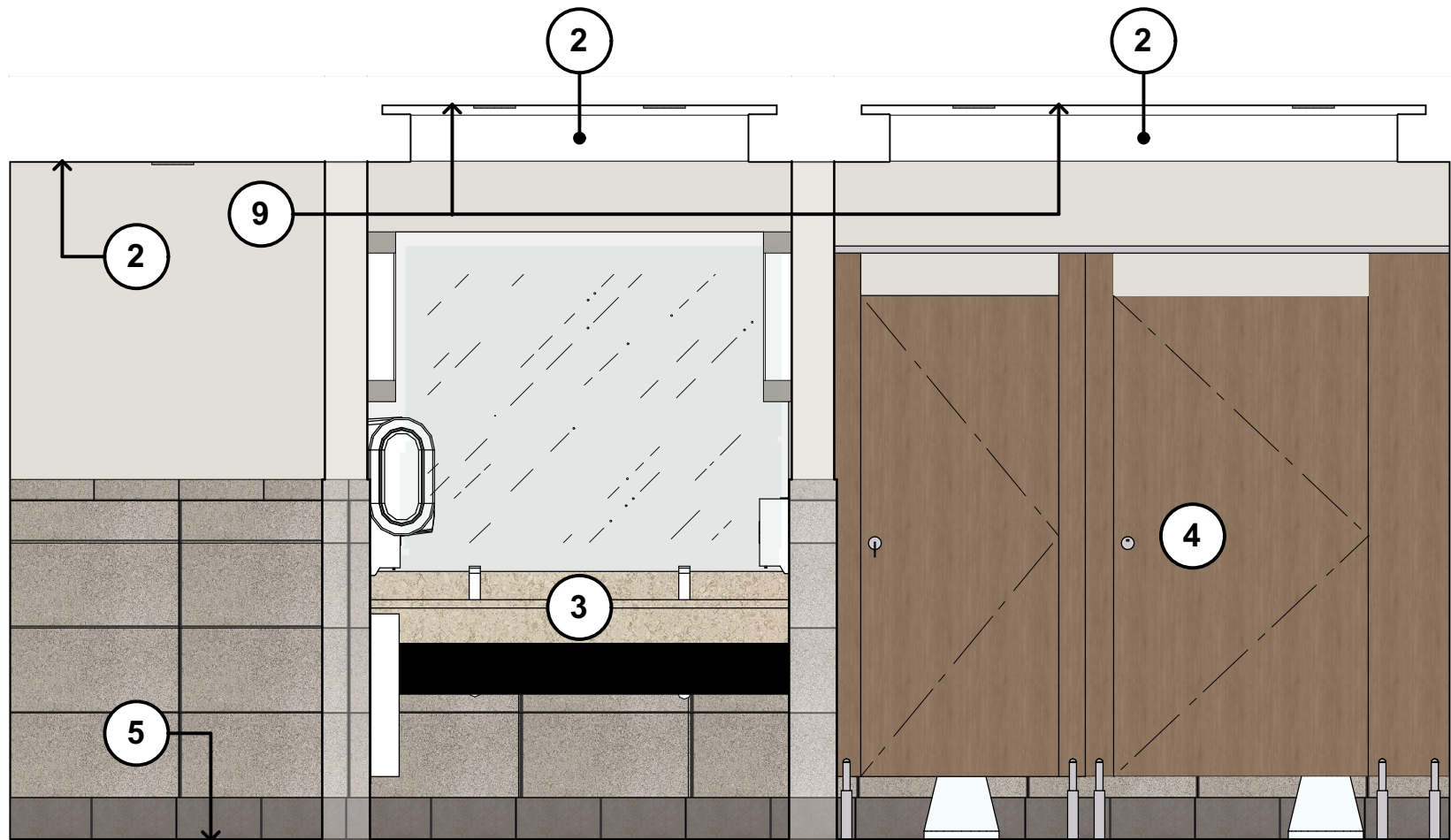
Finish Selections

SHEET NO...

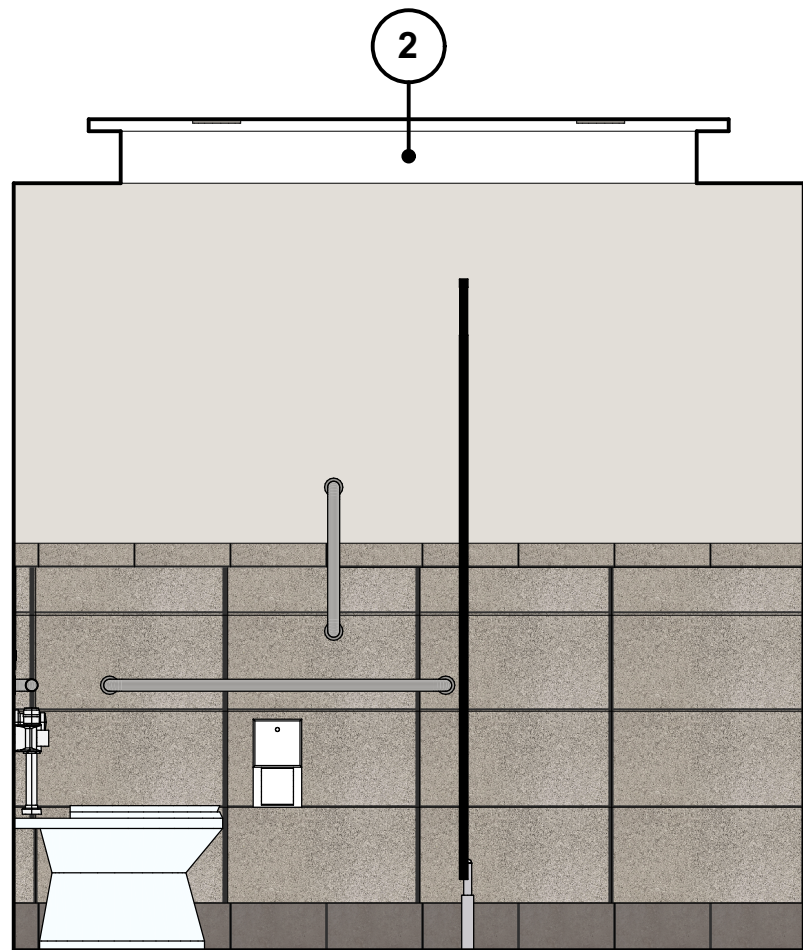
A3-2



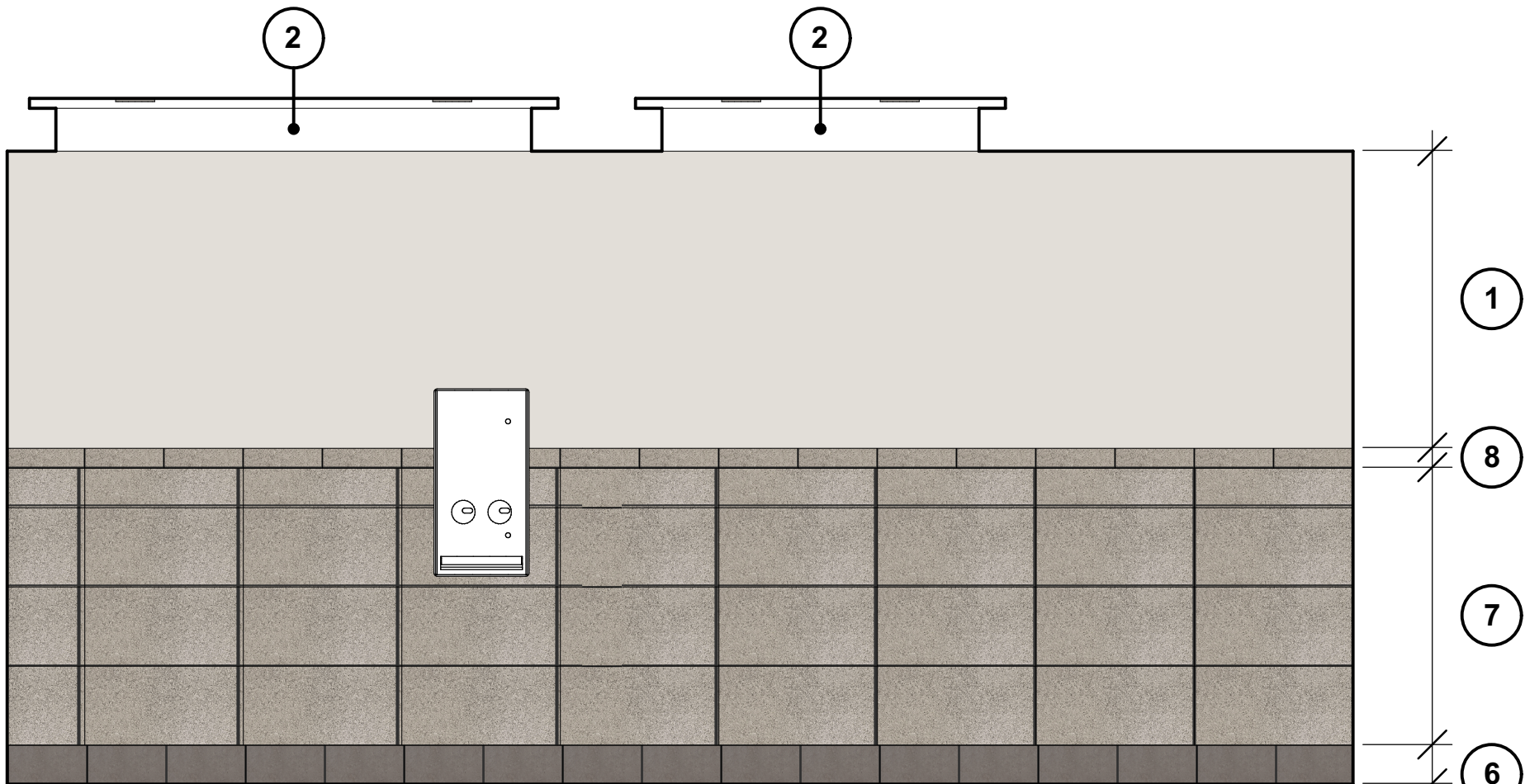
1 N WOMEN'S RESTROOM  
1/2" = 1'-0"



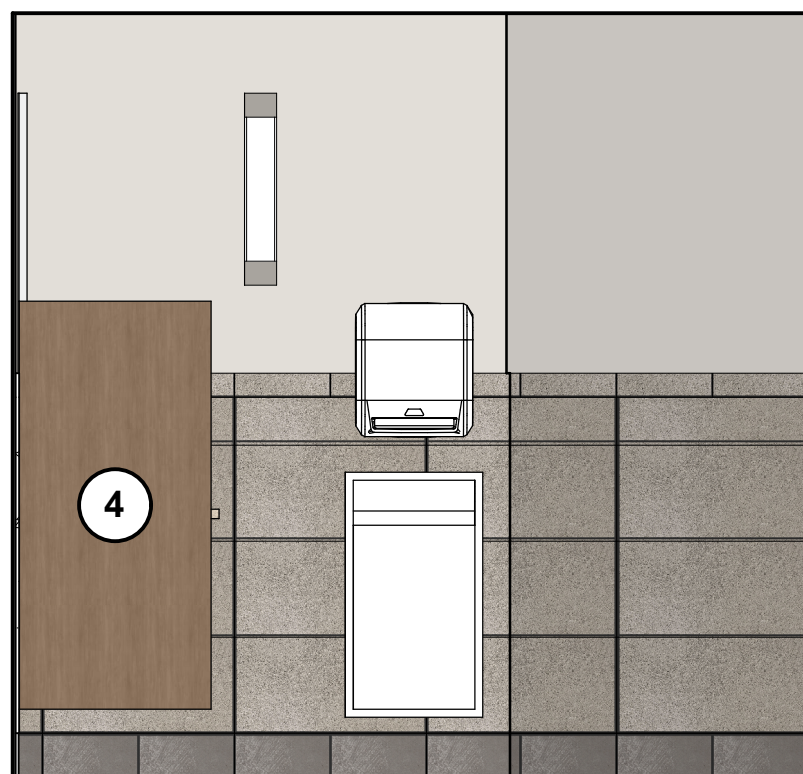
2 E WOMEN'S RESTROOM  
1/2" = 1'-0"



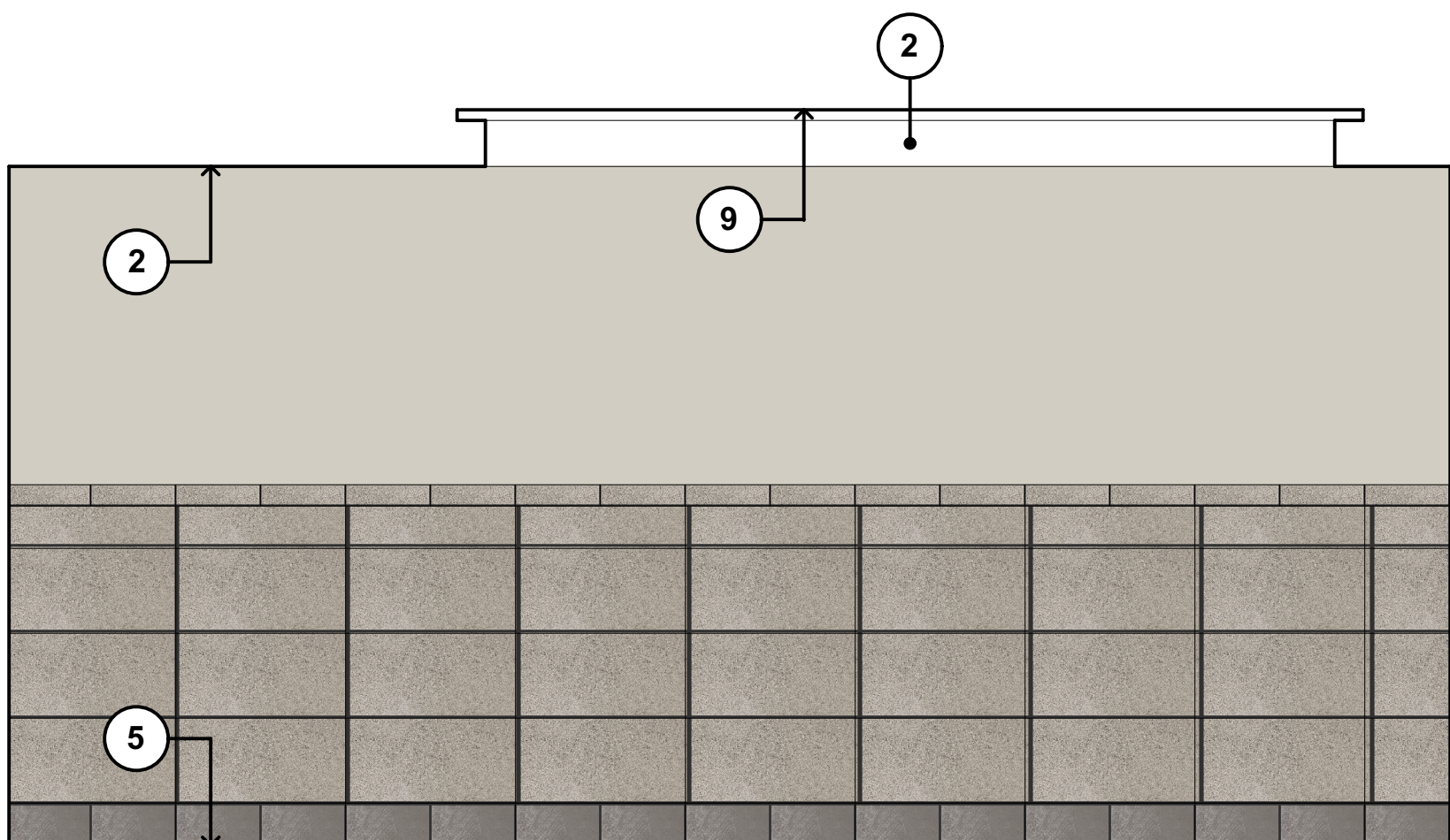
3 S WOMEN'S RESTROOM  
1/2" = 1'-0"



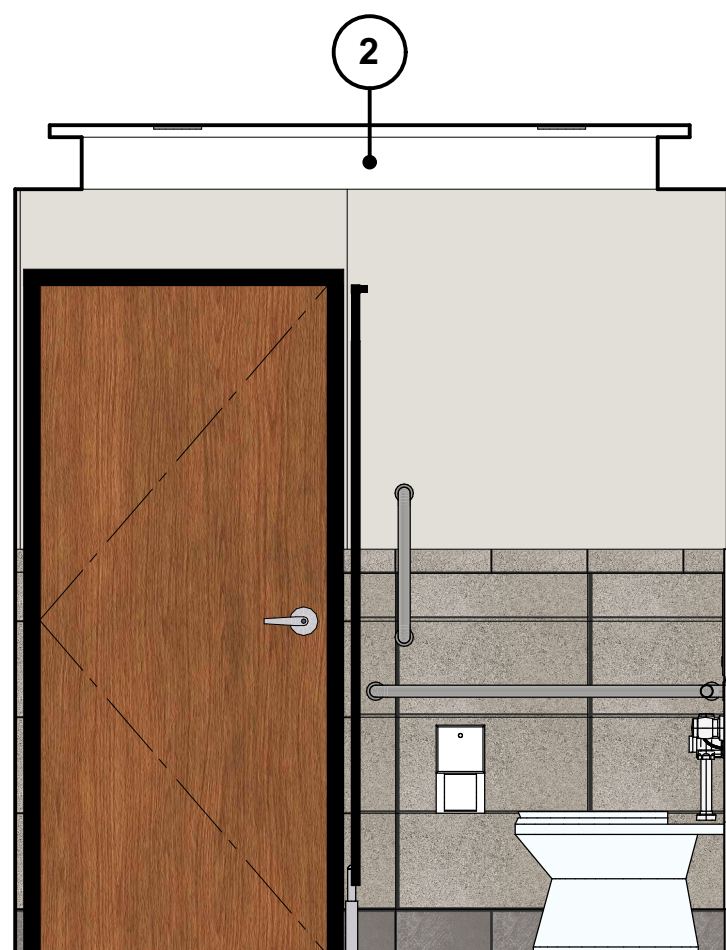
4 W WOMEN'S RESTROOM  
1/2" = 1'-0"



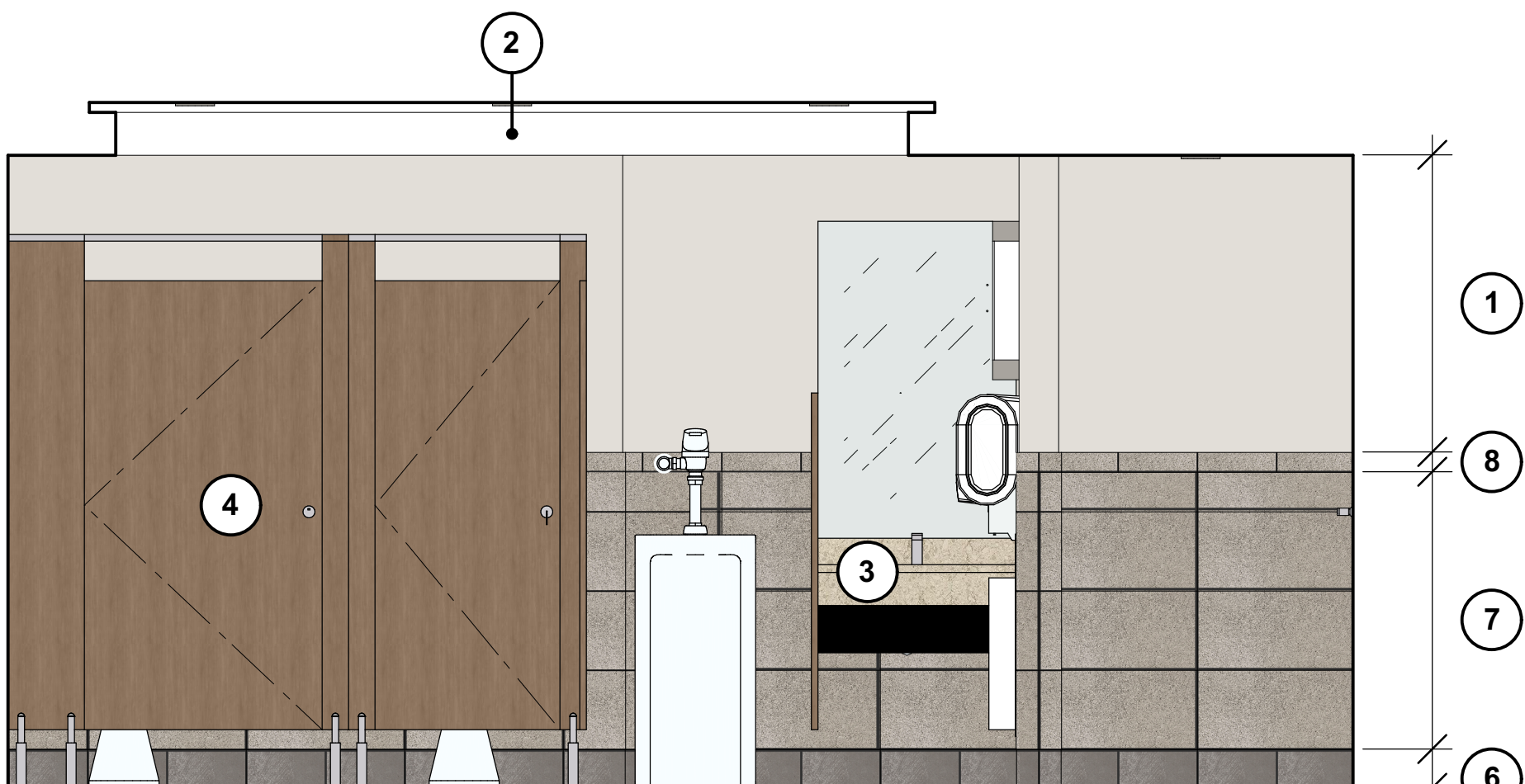
5 N MEN'S RESTROOM  
1/2" = 1'-0"



6 E MEN'S RESTROOM  
1/2" = 1'-0"



7 S MEN'S RESTROOM  
1/2" = 1'-0"

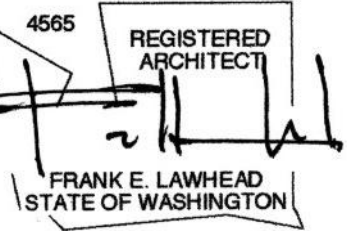


8 W MEN'S RESTROOM  
1/2" = 1'-0"



- GENERAL NOTES:**
1. SEE MECHANICAL & ELECTRICAL FOR ADDITIONAL INFORMATION NOT SHOWN HERE.
  2. FIELD VERIFY ALL EXISTING DIMENSIONS.
  3. FIELD VERIFY ALL EXISTING CONSTRUCTION. IMMEDIATELY REPORT ANY DISCREPANCIES FOUND TO ARCHITECT OR OWNER'S REPRESENTATIVE.

SIGNATURE...



OWNER...



PHASE...

**Construction Documents**

JOB NO...

**24-08**

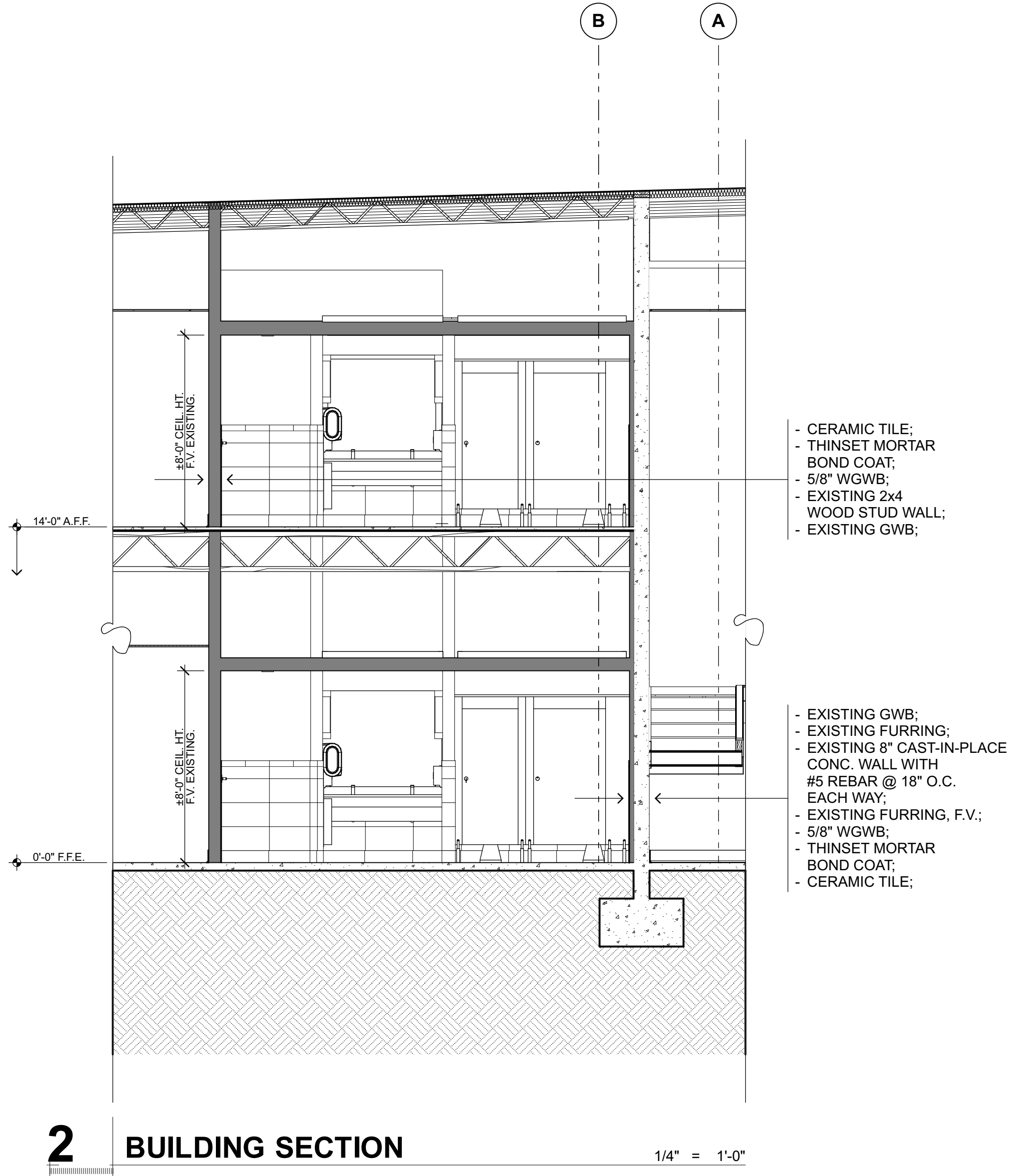
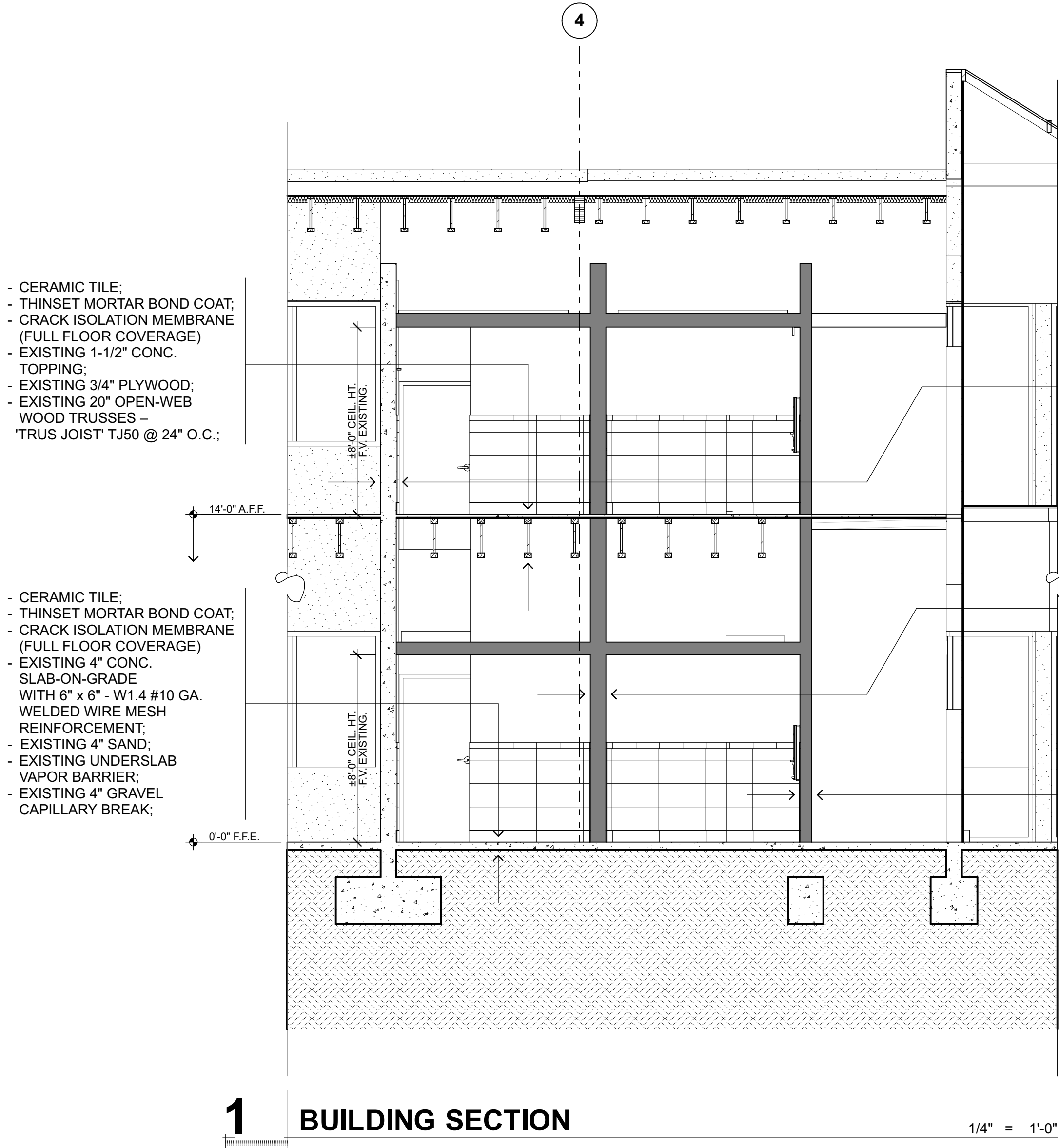
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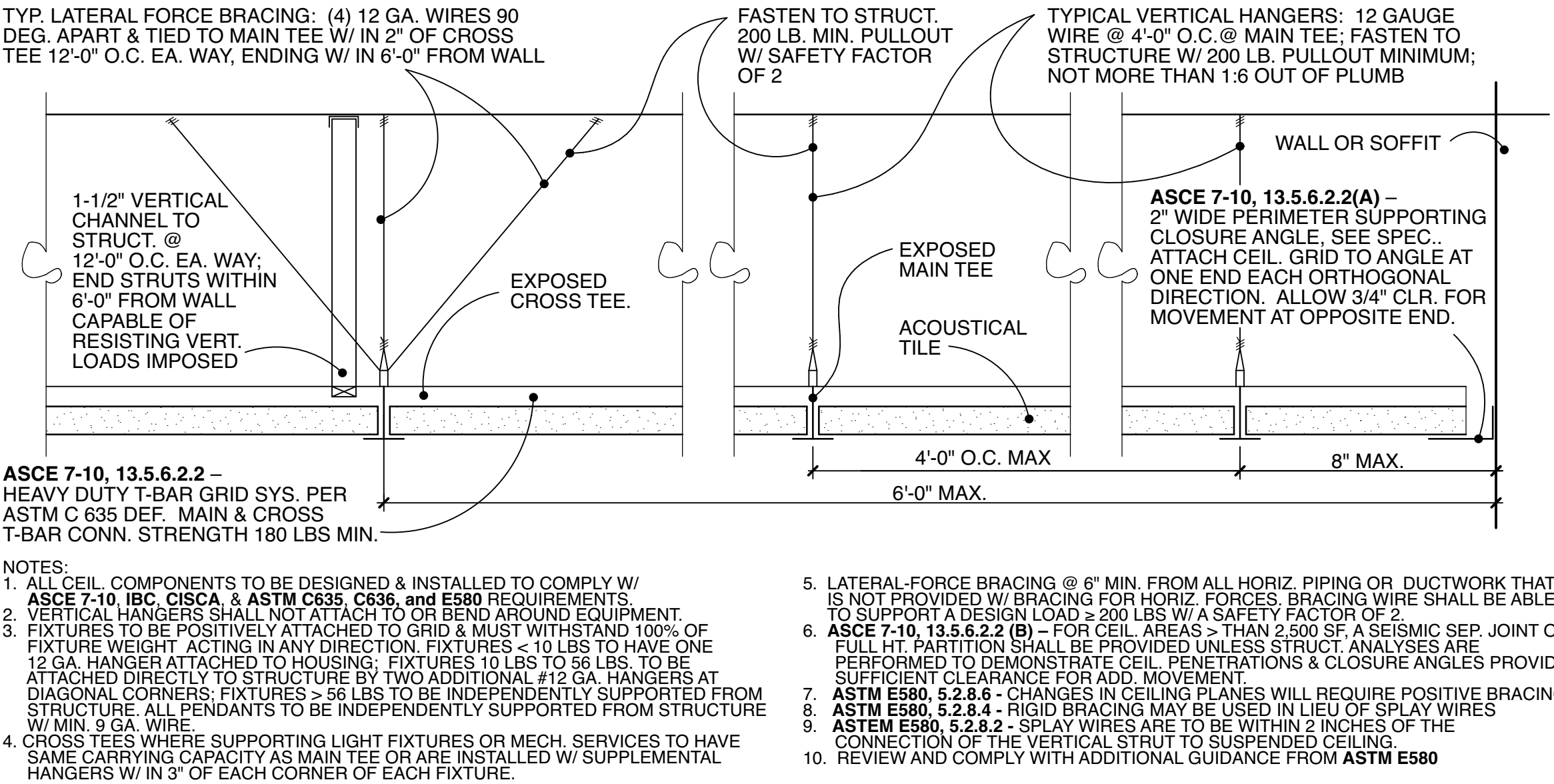
SHEET TITLE...

**Enl. Building Sections**

SHEET NO...

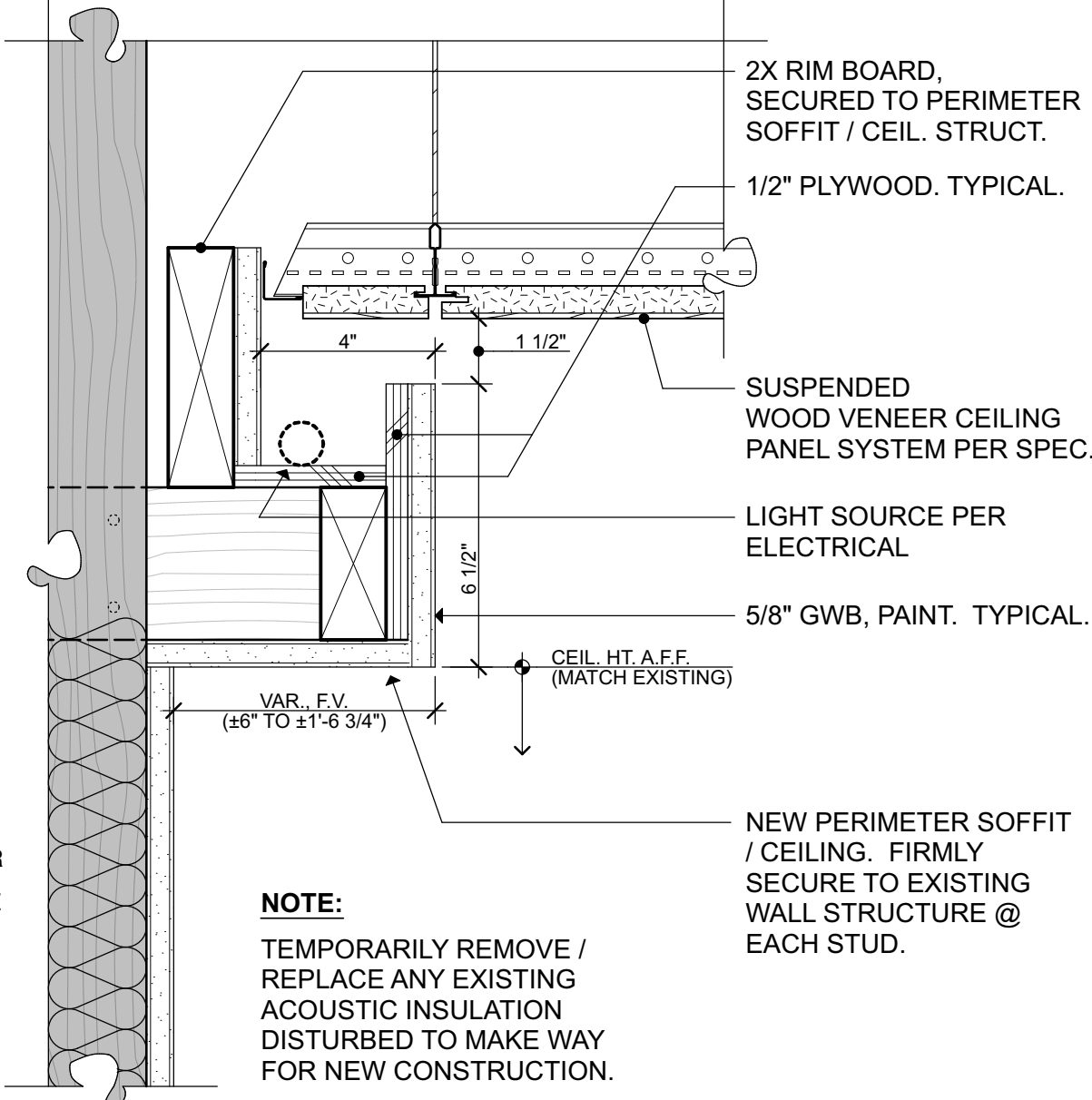






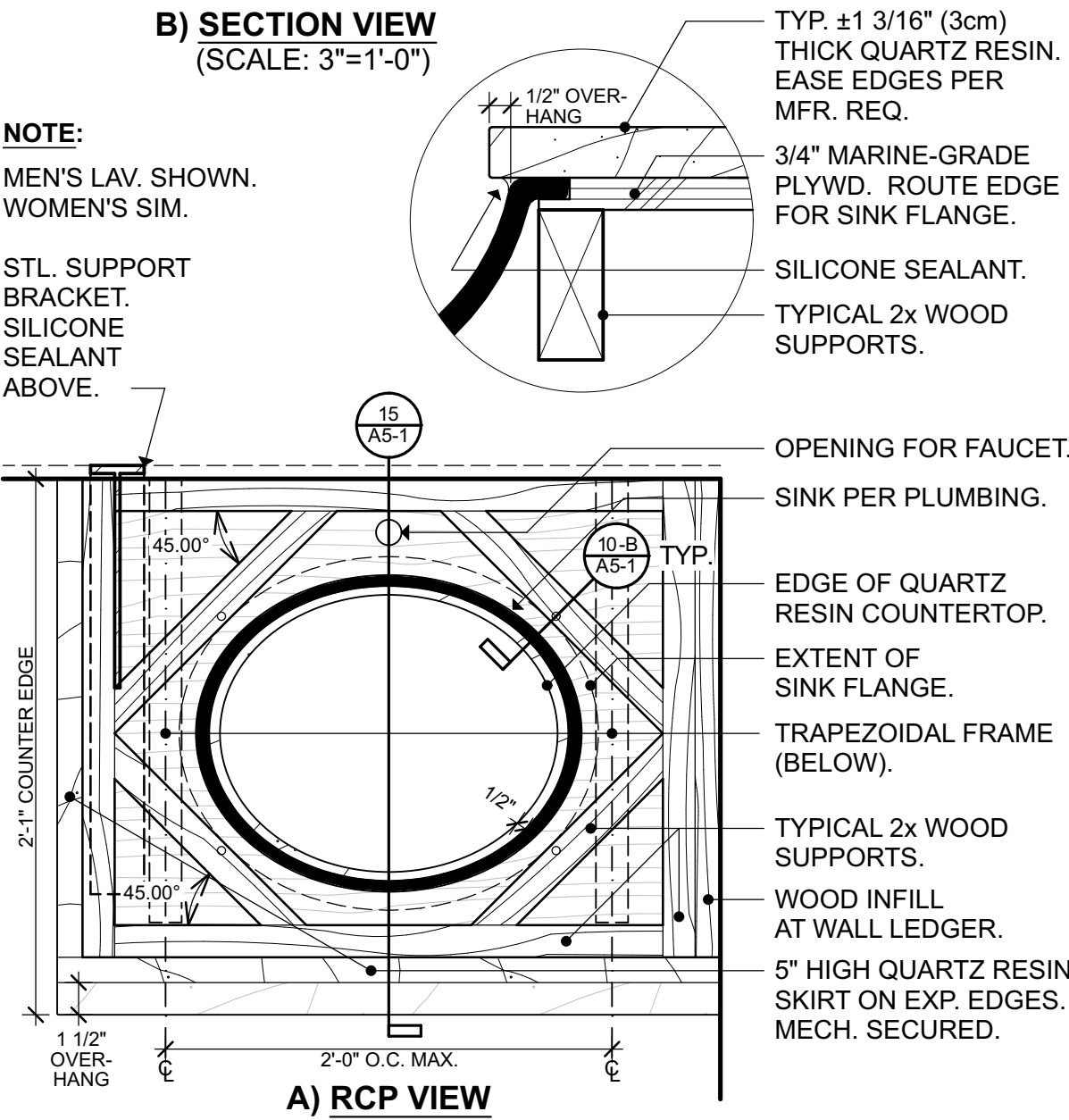
2 TYPICAL A.C.T. CEILING

3" = 1'-0"



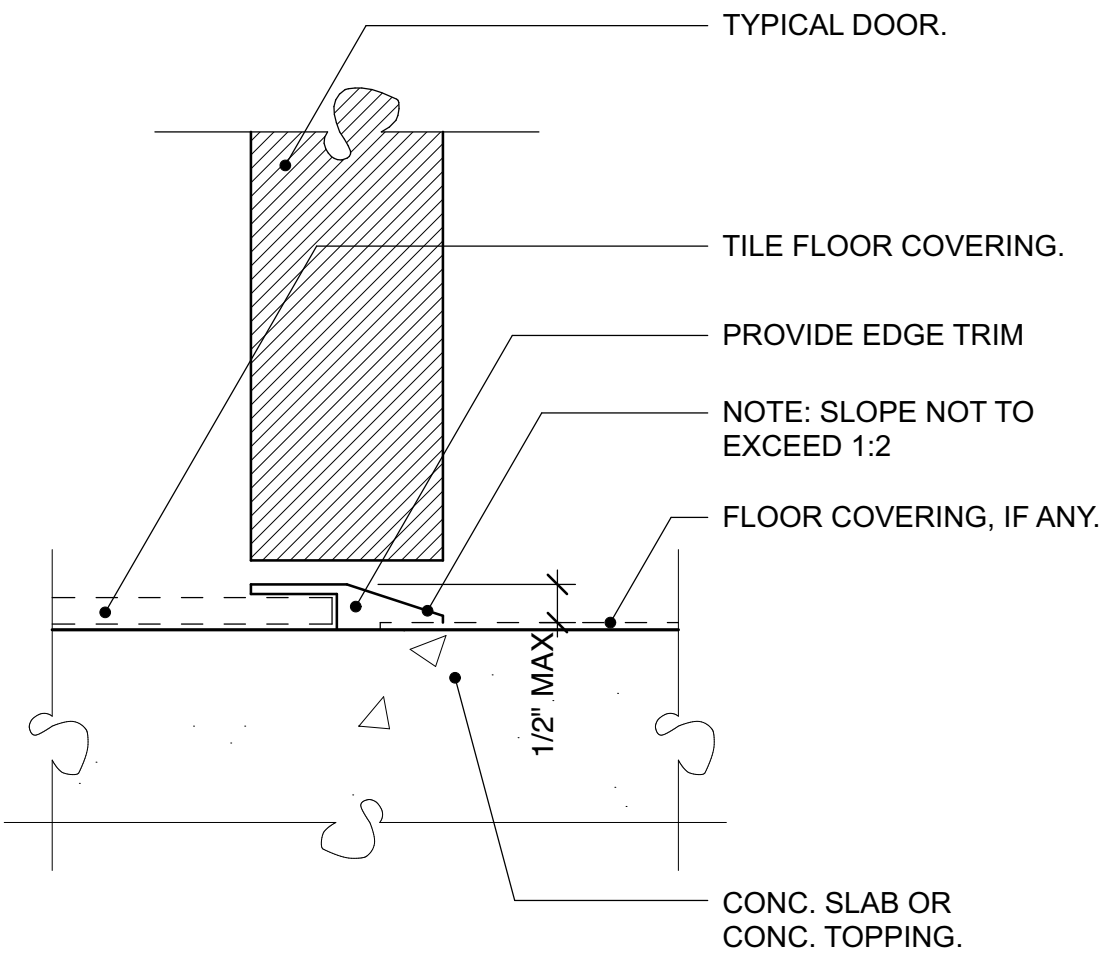
4 LIGHT COVE DETAIL

3" = 1'-0"



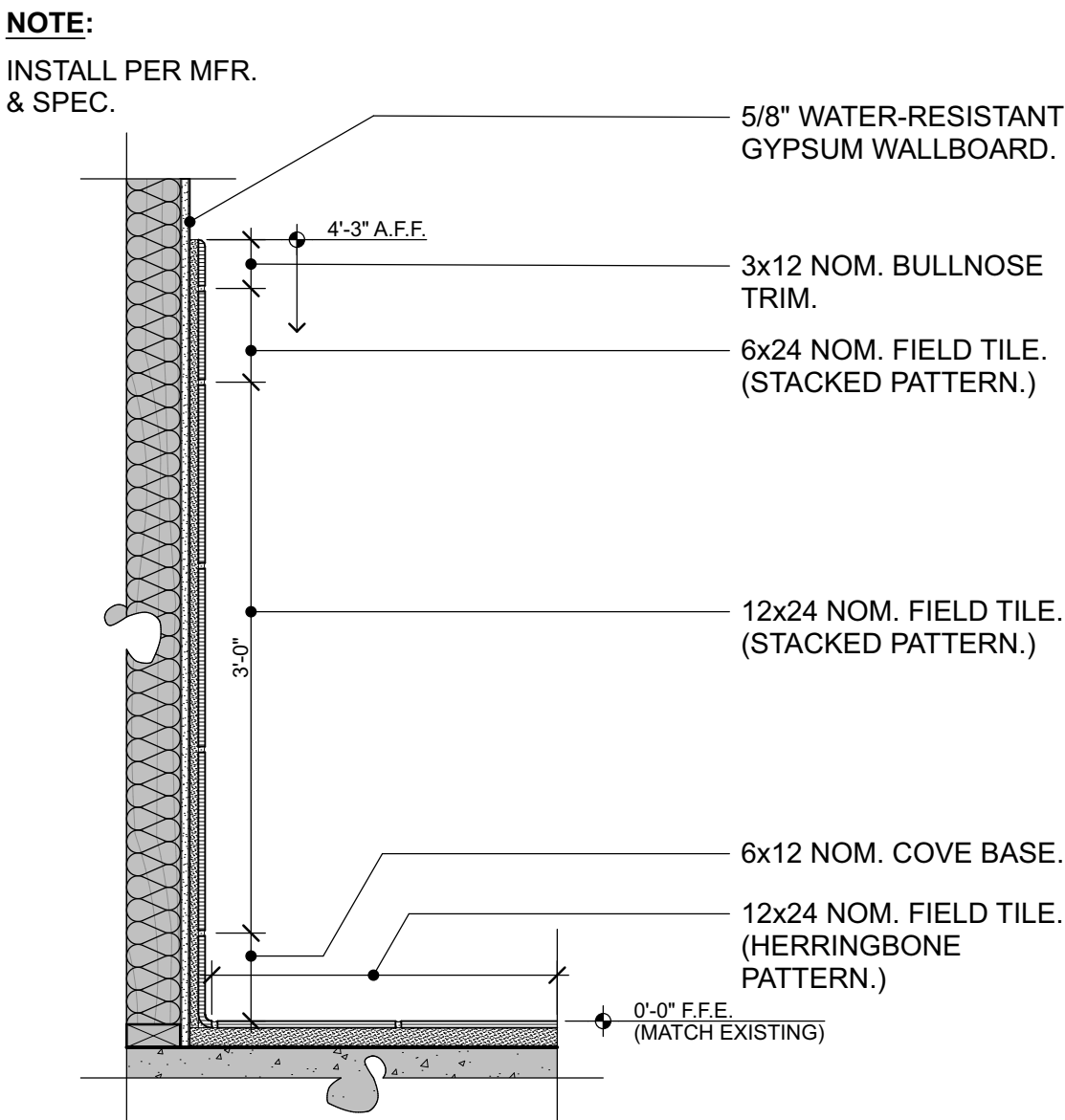
10 LAVATORY SINK PLAN

1 1/2" = 1'-0"



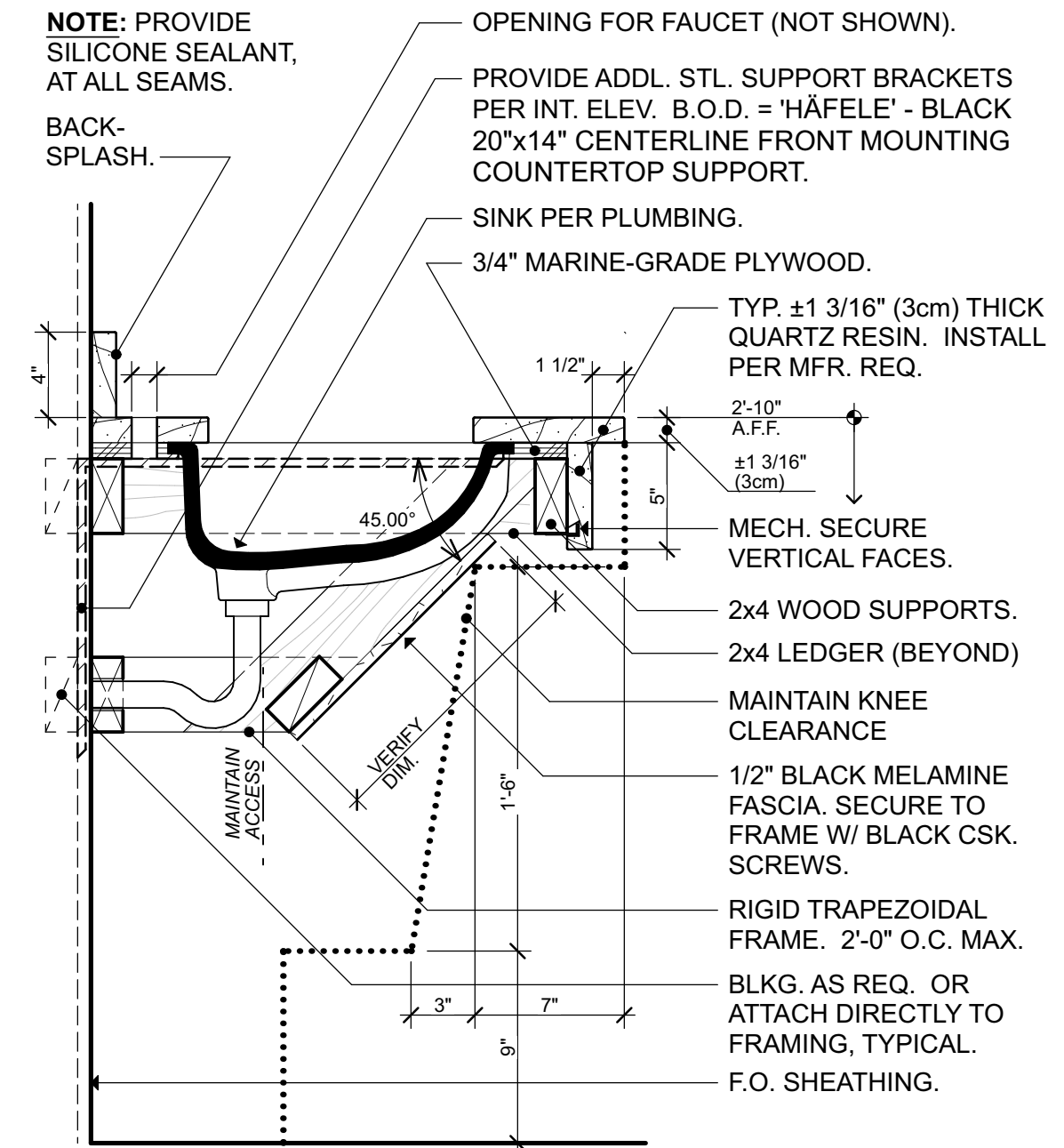
13 TYPICAL INTERIOR DOOR THRESHOLD

6" = 1'-0"



14 TILE WAINSCOT

1" = 1'-0"



15 LAVATORY SINK SECTION

1 1/2" = 1'-0"

LAWHEAD ARCHITECTS P.S.

1239 120TH AVE. N.E., STE. D  
BELLEVUE, WA 98005  
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SIGNATURE...

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REGISTERED ARCHITECT  
FRANK E. LAWHEAD  
STATE OF WASHINGTON

OWNER...

King County  
Housing  
Authority

King County Housing Authority  
600 BUILDING  
Bathroom Remodel

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SHEET TITLE...

Interior Details

SHEET NO...

A5-1



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 BY: \_\_\_\_\_

## GENERAL MECHANICAL DEMOLITION NOTES

- DEMOLITION DRAWINGS ARE INTENDED TO ONLY GIVE A GENERAL REPRESENTATION OF THE DEMOLITION INVOLVED, AND DO NOT CONSTITUTE A FULL LISTING OF ALL ITEMS REQUIRING REMOVAL. SEE SPECIFICATIONS & THESE GENERAL NOTES FOR REQUIREMENTS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW SITE CONDITIONS AND TO IDENTIFY ALL DEMOLITION WORK, AND INCLUDE IN HIS BID ALL COSTS FOR DEMOLITION & DISPOSAL.
- EXISTING DUCTS, EQUIPMENT, PIPING, AIR INLETS/OUTLETS, PLUMBING FIXTURES SHOWN DASHED REPRESENT MAJOR MECHANICAL ITEMS TO BE REMOVED. SEE GENERAL NOTES, DRAWING NOTES & KEYED NOTES WHICH COVER ALL OTHER MISC. MECHANICAL ITEMS TO BE REMOVED.
- ALL EXISTING ITEMS NOT BEING REUSED SHALL BE REMOVED. THIS INCLUDES SUCH ITEMS AS THERMOSTATS, CONTROL DEVICES, DUCTS, FANS, PIPING, GRILLES, SUPPORTS, VALVES, CURBS, AND RELATED ACCESSORIES.
- PATCH ALL WALL/FLOOR/CEILING OPENINGS LEFT BY REMOVAL OF EXISTING ITEMS. PATCH SO AS TO MATCH FINISH OF ADJACENT UNDISTURBED AREA.
- REFERENCE ARCHITECTURAL DRAWINGS FOR WHERE CEILING/WALL AND OTHER GENERAL DEMOLITION WORK IS BEING DONE.
- SEE MECHANICAL FLOOR PLANS FOR HVAC DUCTS THAT ARE BEING REUSED.
- WHERE EXISTING PLUMBING FIXTURES ARE REMOVED, CAP OFF CW, HW, VENT & WASTE PIPING AT A CONCEALED LOCATION (I.E. ABOVE CEILING OR INSIDE WALL).
- PROVIDE TEMPORARY CAP-OFF OF ALL EXIST. SYSTEMS TO ALLOW CONTINUED USE OF ALL SYSTEMS UNTIL THE FINAL SYSTEM COMPONENTS ARE INSTALLED AND CONNECTED (INCLUDE HWS/HWR AT EACH RHI, RHU; FIRE SPRINKLERING, ETC.).
- VERIFY SIZE & LOCATION OF ALL EXISTING ITEMS SHOWN TO BE DEMO'D. LOCATIONS SHOWN ARE APPROXIMATE AND ARE BASED ON OWNER'S AS-BUILTS.

## MECHANICAL GENERAL NOTES

- ALL ITEMS ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING.
- FIXTURE LOCATIONS: VERIFY LOCATION OF PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS BEFORE BEGINNING WORK. ARCHITECTURAL DRAWINGS GOVERN. PLUMBING FIXTURE HEIGHTS SHALL BE AS SHOWN ON ARCHITECTURAL DRAWINGS.
- ALL PIPING & DUCTWORK SHOWN IS SCHEMATIC, CONTRACTOR SHALL PROVIDE ALL OFFSETS/ELBOWS AS REQ'D TO ALLOW ROUTING AROUND STRUCTURE, ELECTRICAL, & OTHER INTERFERENCES.
- BUILDING FEATURES AND PIPING LOCATIONS & SIZES SHOWN ON PLANS ARE APPROXIMATE & ARE BASED ON AS-BUILT DATA PROVIDED BY THE OWNER, A COMPLETE REVIEW IS REQUIRED TO BE MADE BY THE CONTRACTOR. VERIFY SIZES PRIOR TO BIDDING AND BEGINNING WORK.
- CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING EQUIPMENT, PIPING, WALLS, SUPPORTS, ELECTRICAL AND RELATED BUILDING FEATURES AND RELOCATE/REVISE SUCH EXISTING ITEMS AS NECESSARY TO ALLOW FOR THE WORK INDICATED.
- CONTRACTOR SHALL FIELD VERIFY THE SIZES AND LOCATIONS OF ALL EXISTING ITEMS SHOWN BEING CONNECTED TO. VERIFICATION SHALL OCCUR PRIOR TO MATERIALS BEING ORDERED OR FABRICATED.
- CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO REVIEW AND VERIFY EXISTING CONDITIONS AND CONSTRUCTION MATERIALS, INCLUDING, BUT NOT LIMITED TO, ALL WALLS, FLOORS, CEILINGS, AND OTHER AREAS THAT MAY BE DISTURBED DURING CONSTRUCTION IN ORDER TO ACCOMPLISH THE WORK IN THESE DOCUMENTS. THE CONTRACTOR SHALL ALSO VISIT THE SITE AGAIN PRIOR TO BEGINNING ANY WORK.
- PROVIDE PIPING TRANSITIONS AS NECESSARY TO CONNECT TO EXISTING SYSTEMS. SUCH SYSTEMS SHALL BE FIELD REVIEWED FOR SIZE, DIRECTION OF FLOW, LOCATION AND TYPE PRIOR TO ORDERING/FABRICATING SUCH TRANSITIONS BECAUSE OWNER PROVIDED AS-BUILT DRAWINGS THAT SHOW SUCH INFORMATION ARE CONSIDERED APPROXIMATE. CONTRACTOR SHALL ASSUME IN HIS BID ONE TRANSITION FOR EACH CONNECTION TO EXISTING SYSTEMS. PIPING CONNECTIONS ON EXISTING ITEMS MAY BE ONE PIPE SIZE SMALLER OR LARGER THAN SHOWN.

## FIRE SPRINKLER NOTES

- FIRE SPRINKLER SYSTEM & WORK IS CONTRACTOR DESIGN/BUILD.
- BUILDING HAS AN EXISTING FIRE SPRINKLER SYSTEM.
- PROVIDE MODIFICATIONS TO (E) SYSTEM TO ACCOMMODATE REVISED CEILING AND OTHER WORK. SEE ARCHITECTURAL DRAWINGS.
- REVIEW ARCHITECTURAL AND ALL OTHER DRAWINGS FOR BUILDING DETAILS AND LAYOUT.
- COORDINATE WITH ALL TRADES IN ROUTING OF SPRINKLER PIPING TO AVOID CONFLICTS. FIRE PROTECTION SYSTEM HAS THE LOWEST PRIORITY OF ITEMS RAN IN THE CEILING. PROVIDE OFFSETS AS REQUIRED.
- ALL FIRE SPRINKLER HEADS SERVING OCCUPIED AREAS OF THE BLDG SHALL BE QUICK RESPONSE TYPE.
- ALL FIRE SPRINKLER HEADS SHALL BE LOCATED TO BE SYMMETRICAL WITHIN SPACES SERVED AND BUILDING ARCHITECTURAL FEATURES.
- PIPING SHALL BE RAN CONCEALED.

## MECHANICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	WASTE OR SOIL (W)	AFF	ABOVE FINISHED FLOOR
	VENT (V)	AHJ	AUTHORITY HAVING JURISDICTION
	COLD WATER (CW)	APPROX	APPROXIMATELY
	HOT WATER (HW)	ARCH	ARCHITECTURAL
	HOT WATER CIRCULATING (HWC)	ASSY	ASSEMBLY
	FLOOR CLEANOUT (FCO) OR SURFACE CLEANOUT (SCO)	BDD	BACKDRAFT DAMPER
	ISOLATION VALVE	B.O.D.	BOTTOM OF DUCT
	PIPE UP	BTU	BRITISH THERMAL UNIT
	PIPE DOWN	BTUH	BRITISH THERMAL UNIT/HOUR
	PIPE TEE IN LINE, BRANCH PIPE DOWN	BLDG	BUILDING
	DUCT (FIRST FIGURE, SIDE SHOWN)	CAP	CAPACITY
	DUCT SECTION (EXHAUST OR RETURN)	CLG	CEILING
	VOLUME DAMPER (MANUAL)	CO	CLEANOUT
	ELBOW WITH TURNING VANES	COP	COEFFICIENT OF PERFORMANCE
	DUCT UP (RECTANGULAR)	COMP	COMPRESSOR
	DUCT DOWN (RECTANGULAR)	CONN	CONNECTION
	CEILING INLET	CONT	CONTINUE, CONTINUATION
		CFH	CUBIC FEET PER HOUR
		CFM	CUBIC FEET PER MINUTE
		CW	COLD WATER
		CWV	COMBINATION WASTE/VENT
		DEG F, °F	DEGREE FAHRENHEIT
		DIA, Ø	DIAMETER
		DN	DOWN
		DWG	DRAWING
		DB	DRY BULB
		EA	EACH
		ECM	ELECTRONIC COMMUTATED MOTOR
		EF	EXHAUST FAN
		EFF	EFFICIENCY
		ELEC	ELECTRICAL, ELECTRIC
		EER	ENERGY EFFICIENCY RATIO
		EAT	ENTERING AIR TEMPERATURE
		EWB	ENTERING WET BULB
		EDB	ENTERING DRY BULB
		EOL	END OF LINING
		EXH	EXHAUST
		ESP	EXTERNAL STATIC PRESSURE
		FV	FACE VELOCITY
		FPM	FEET PER MINUTE
		FLEX	FLEXIBLE
		FL	FLOOR
		FCO	FLOOR CLEAN OUT
		FLA	FULL LOAD AMPS
		GAL	GALLON
		HP	HORSE POWER
		HW	HOT WATER
		HWC	HOT WATER CIRCULATION
		INTEGR.	INTEGRAL
		IN	INCH
		KW	KILOWATT
		L	LINING
		LAT	LEAVING AIR TEMPERATURE
		LDB	LEAVING DRY BULB
		LWT	LEAVING WATER TEMPERATURE
		LWB	LEAVING WET BULB
		MAX	MAXIMUM
		MFR	MANUFACTURER
		MBH	THOUSAND BTUH
		MCA	MINIMUM CIRCUIT AMPACITY
		OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
		MECH	MECHANICAL
		MIN	MINIMUM
		NO	NUMBER
		NTS	NOT TO SCALE
		OBD	OPPOSED BLADE DAMPER
		PH	PHASE
		PD	PRESSURE DROP
		R	RETURN
		REF	REFERENCE
		REL	RELIEF
		RLA	RATED LOAD AMPS
		REQ'D	REQUIRED
		RPM	REVOLUTIONS PER MINUTE
		SCO	SURFACE CLEANOUT
		S.O.	SCREENED OPENING
		SS	STAINLESS STEEL
		TEMP	TEMPERATURE
		TD	TRANSFER DUCT
		TG	TRANSFER GRILLE
		TYP	TYPICAL
		UG	UNDER GROUND
		UNO	UNLESS NOTED OTHERWISE
		V	VOLTS, VOLTAGE, VENT
		WC	WATER COLUMN
		WCO	WALL CLEAN OUT
		W	WASTE
		WA	WATT
		WB	WET BULB
		W/	WITH

NOTE: FOR DESCRIPTION OF OTHER ABBREVIATIONS SEE SYMBOL LISTING TO THE LEFT, EQUIPMENT/ITEMS SCHEDULES, AND SPECIFICATIONS.

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P.S.

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(425) 556-1220

SIGNATURE



OWNER...



King County Housing Authority  
600 BUILDING  
Bathroom Remodel

PHASE...

Construction  
Documents

JOB NO...

24-08

DATE...

9/23/24

SHEET TITLE...

MECHANICAL  
LEGEND AND  
NOTES

SHEET NO...

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M0-1



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FAN SCHEDULE												
SYMBOL	BASIS OF DESIGN MANUFACTURER AND SERIES NO.	TYPE	AREA SERVED	CFM	ESP	MAX RPM	ELECTRICAL		DRIVE	CONTROL	MAX WEIGHT LBS	REMARKS
							HP	VOLTS / PH				
EF-1	COOK 100C17DEC	ROOFTOP	FIRST FLOOR RESTROOMS	650	0.5"	1725	1/4	115/1	DIRECT	TIME CONTROL	50	
EF-2	COOK 100C17DEC	ROOFTOP	SECOND FLOOR RESTROOMS	650	0.5"	1725	1/4	115/1	DIRECT	TIME CONTROL	50	
NOTES:    1.    PROVIDE FANS WITH EC MOTORS WITH SPEED ADJUSTMENT (MOTOR MOUNTED) OR VARIABLE FREQUENCY DRIVES. 2.    PROVIDE FANS WITH DISCONNECT. 3.    PROVIDE ALL ROOFTOP FANS WITH ADAPTER CURBS.												

AIR INLET & OUTLET SCHEDULE			
SYMBOL	TYPE	MANUFACTURER AND SERIES NUMBER	REMARKS
CEG	CEILING EXHAUST GRILLE	KRUEGER SERIES EGC-5	1/2"x1/2"x1/2" CUBE CORE
CTG	CEILING TRANSFER GRILLE	KRUEGER SERIES EGC-5	1/2"x1/2"x1/2" CUBE CORE
NOTES: 1. ALL AIR TERMINALS SHALL HAVE FACTORY FINISH, COLOR AS SELECTED BY ARCHITECT. 2. SEE LEGEND FOR TERMINOLOGY USED IN AIR TERMINAL CALL-OUTS ON DRAWINGS. 3. SEE ARCH. FINISH SCHEDULE FOR CEILING TYPES, PROVIDE AIR TERMINALS TO MATCH CEILING CONSTRUCTION INSTALLED IN.			

PLUMBING FIXTURE SCHEDULE						
SYMBOL	DESCRIPTION	W	V	CW	HW	REMARKS
P-1A	WATER CLOSET	4"	2"	1"	-	FLOOR MOUNT, ADA ACCESSIBLE, SENSOR FLUSH VALVE
P-2A	URINAL	-	-	3/4"	-	(E) FIXTURE, SENSOR FLUSH VALVE REPLACEMENT
P-3A	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	UNDERMOUNT, ADA ACCESSIBLE, SENSOR FAUCET

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SHEET TITLE...

MECHANICAL SCHEDULES

SHEET NO...

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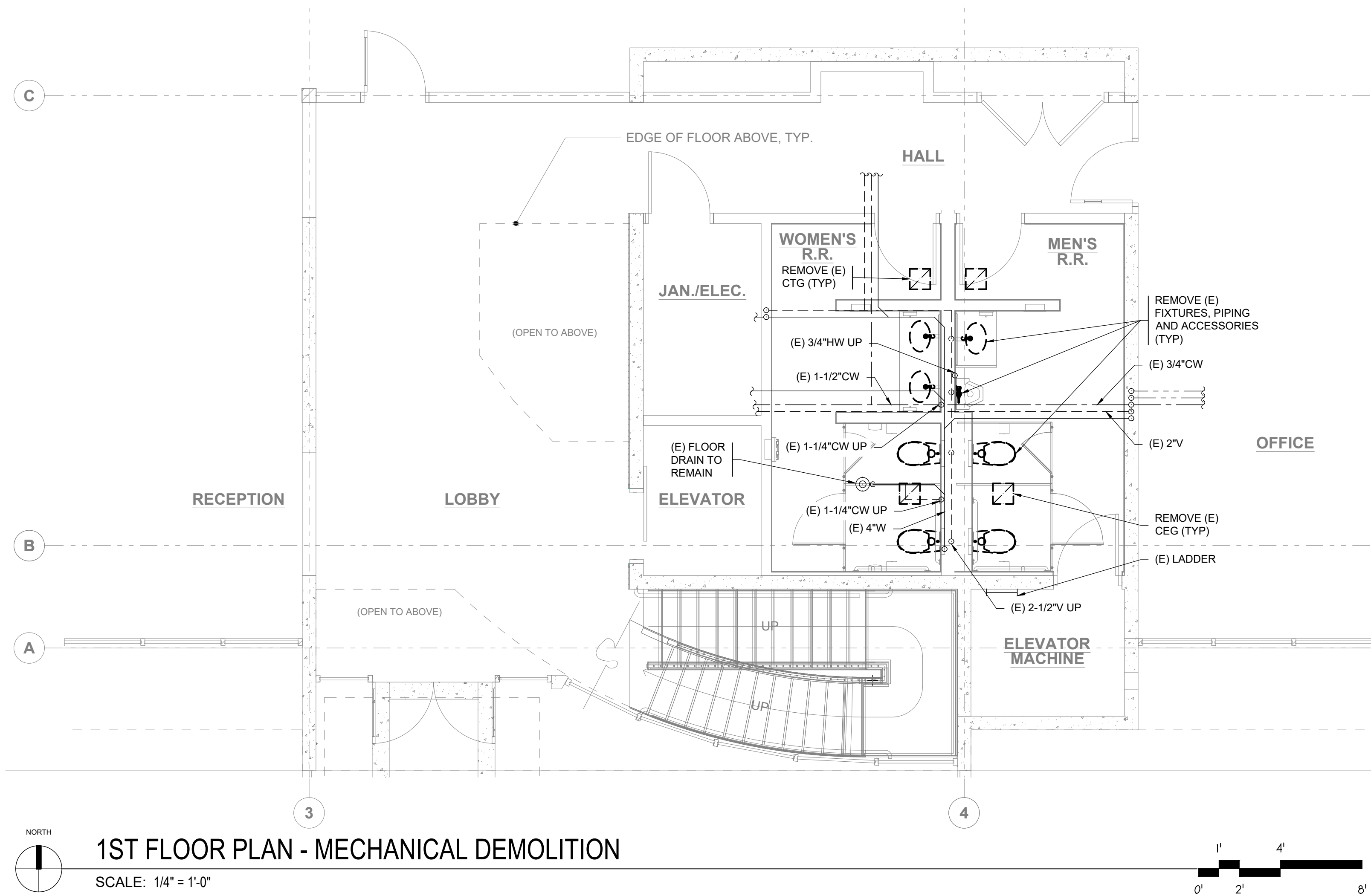
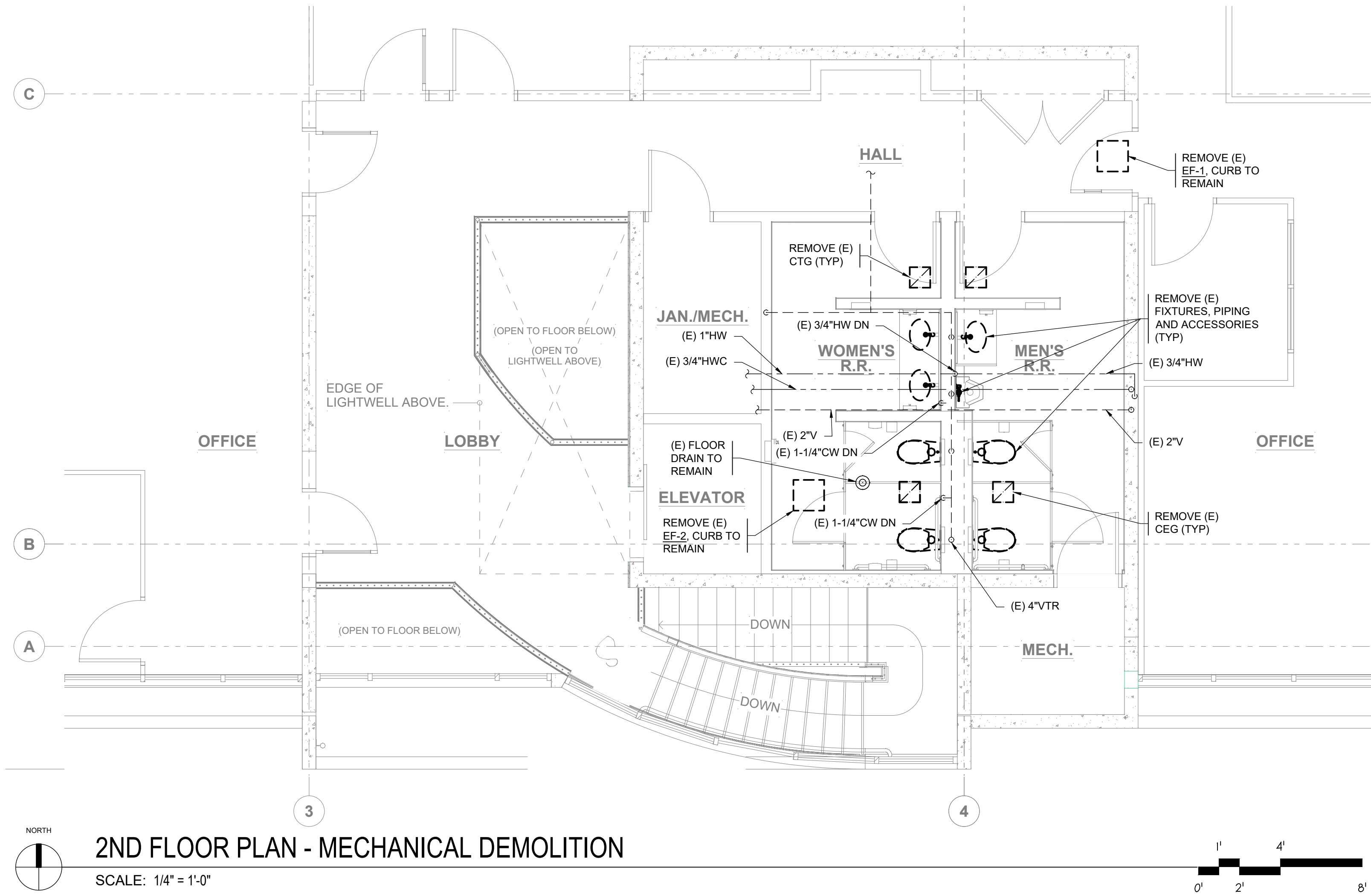
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Job Number: 24-145

M0-2





GENERAL NOTES:

1. SEE MECHANICAL GENERAL NOTES AND MECHANICAL DEMOLITION NOTES ON SHEET M0-1.

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SHEET TITLE...

ENLARGED  
DEMOLITION  
PLANS

SHEET NO...

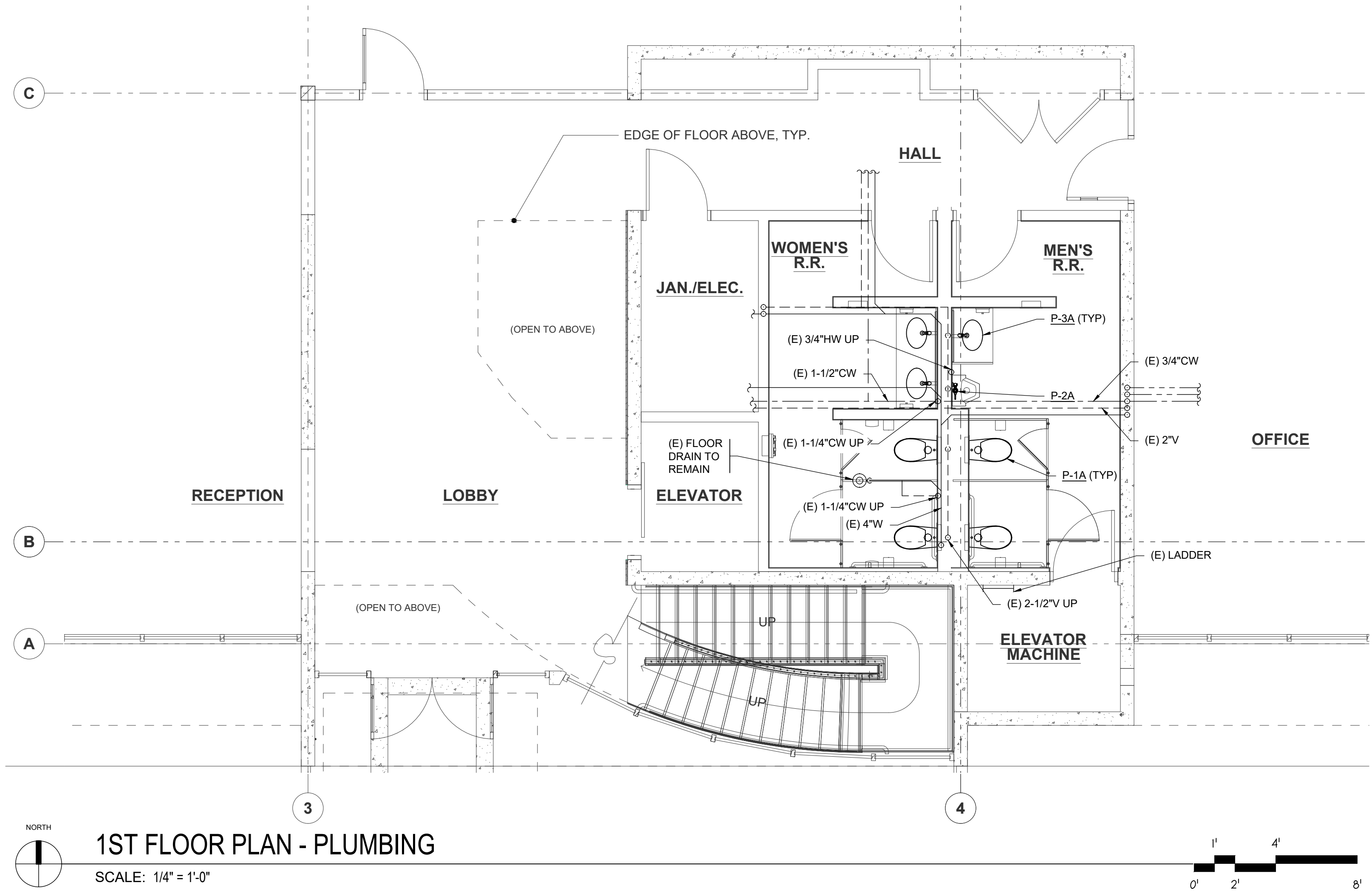
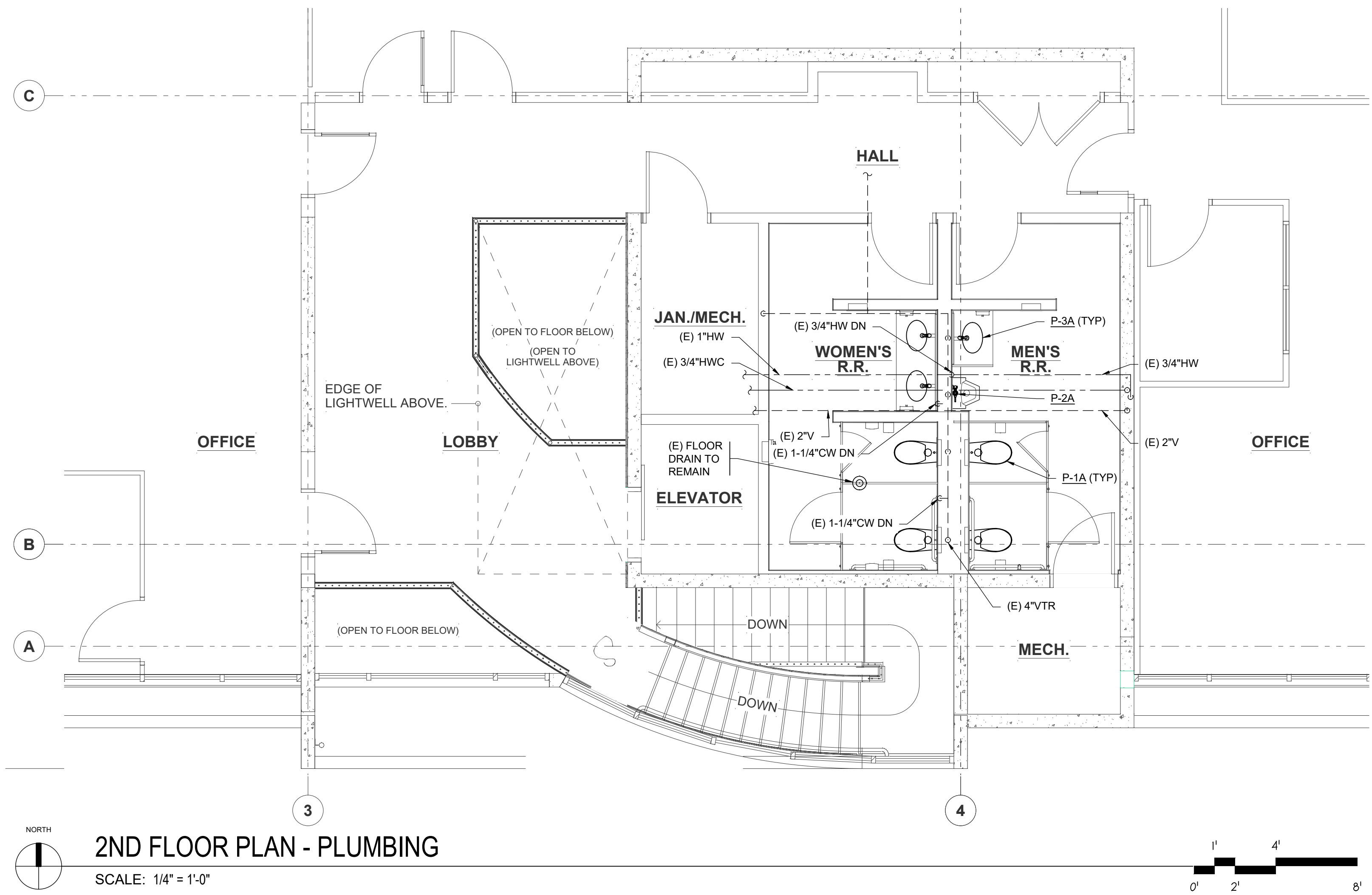
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M1-1

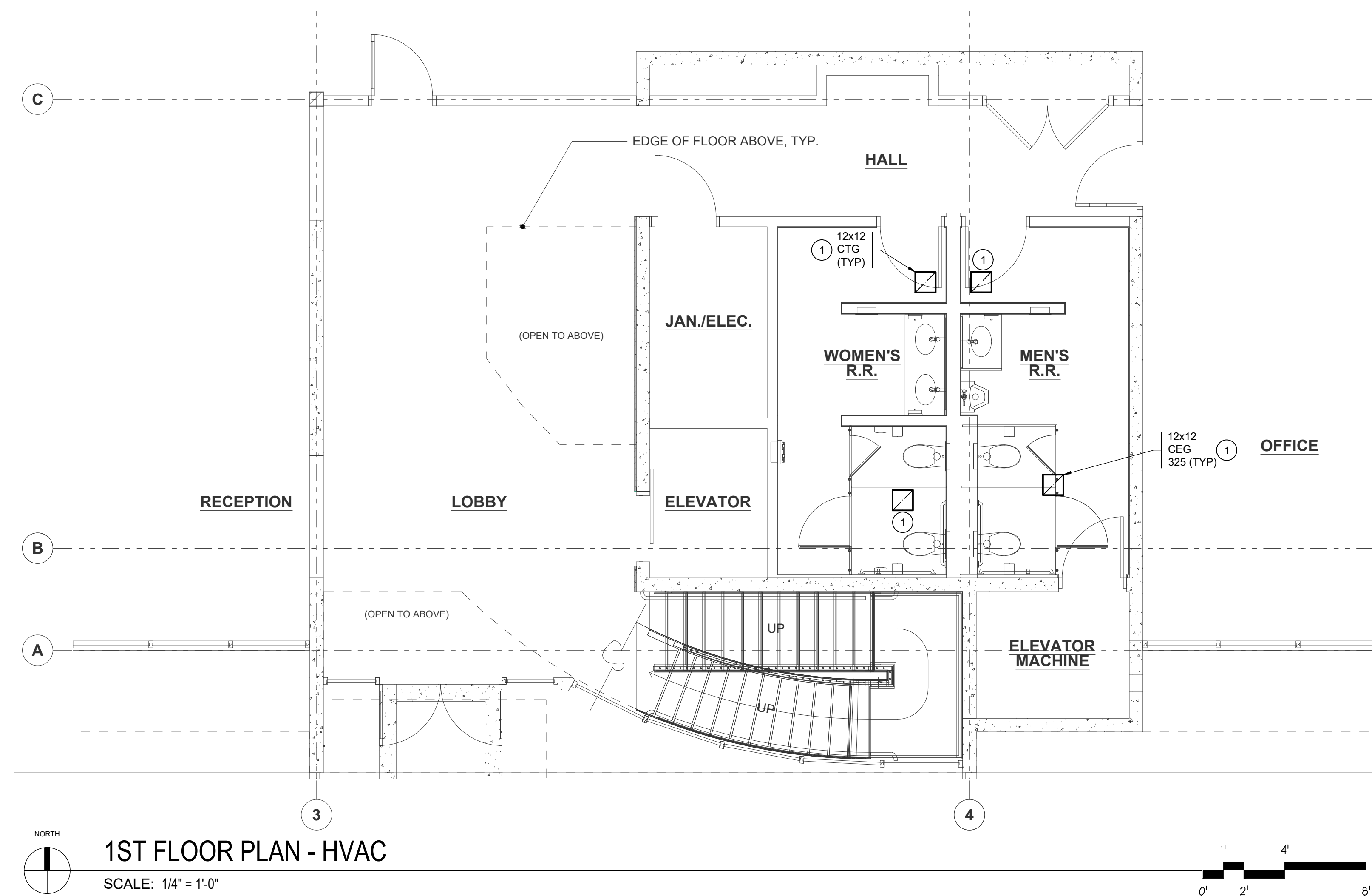
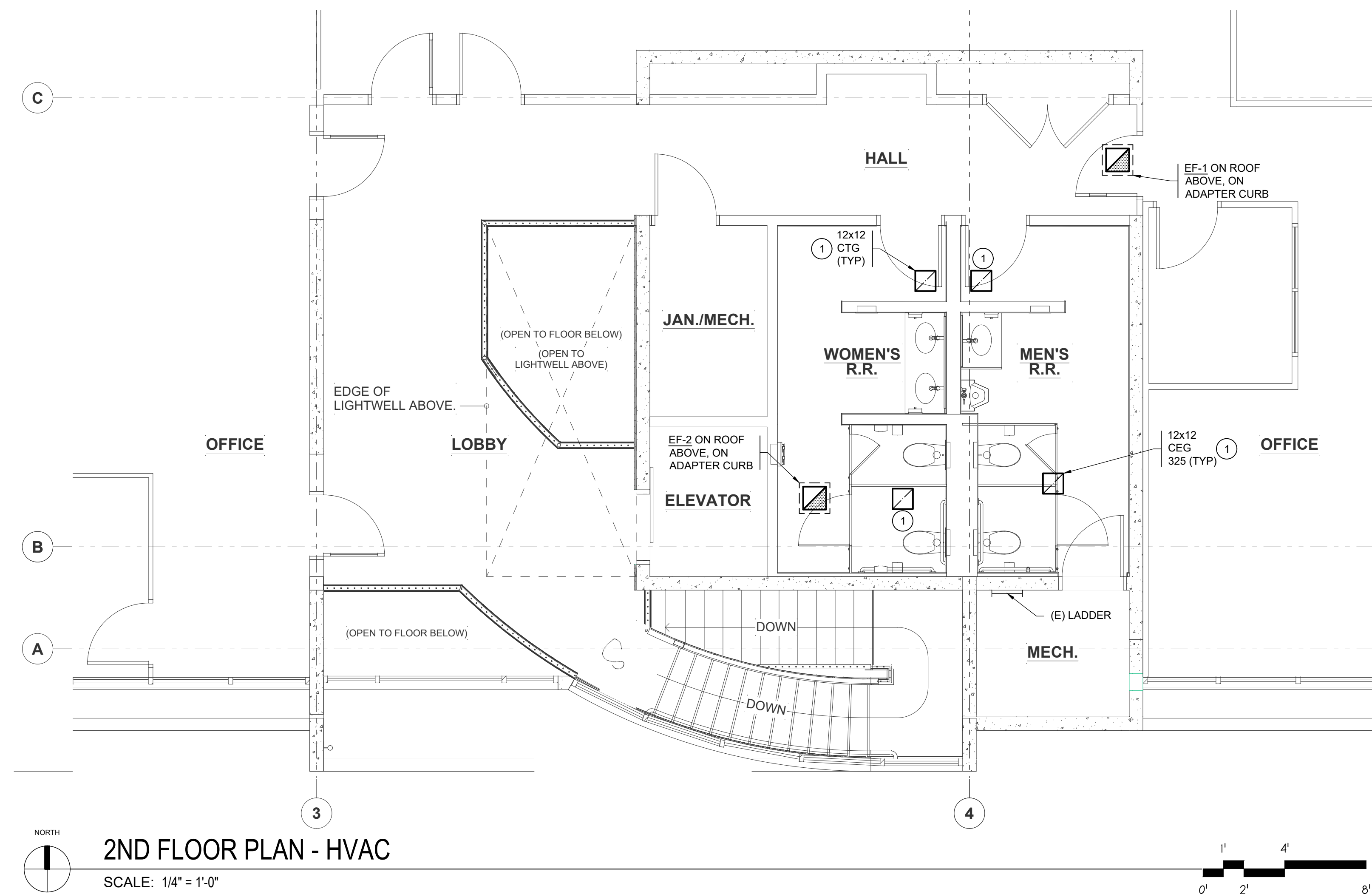




**GENERAL NOTES:**

1. SEE MECHANICAL GENERAL NOTES SEE SHEET M0-1.
2. REVISE EXISTING PLUMBING ROUGH-IN AS REQ'D TO ACCOMMODATE NEW FIXTURES.







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ABBREVIATIONS			
(SOME ABBREVIATIONS MAY NOT BE USED ON DRAWINGS)			
ABBREVIATIO N	DESCRIPTION	ABBREVIATIO N	DESCRIPTION
A or AMP	AMPERES	MECH	MECHANICAL
AC	ALTERNATING CURRENT	MH	MANHOLE
A/C	AIR CONDITIONING	MIN	MINIMUM
AIC	AMPERE INTERRUPTING CAPACITY	MLO	MAIN LUGS ONLY
AL	ALUMINUM	MOP, MOCP	MAXIMUM OVERCURRENT PROTECTION
ARCH	ARCHITECTURAL	MTD	MOUNTED
ATC	AUTOMATIC TEMPERATURE CONTROL	MTG	MOUNTING
ATS	AUTOMATIC TRANSFER SWITCH	NC	NORMALLY CLOSED
AWG	AMERICAN WIRE GAUGE	N, NEUT	NEUTRAL
BIL	BASIC IMPULSE LEVEL	NIC	NOT IN CONTRACT
BKR	BREAKER	NO	NORMALLY OPEN
BLDG	BUILDING	NTS	NOT TO SCALE
C	CONDUIT	OC	ON CENTER
C.O.	CONDUIT ONLY	OD	OUTSIDE DIAMETER
°C	DEGREES CELSIUS	OH	OVERHEAD
CB	CIRCUIT BREAKER	PA	PUBLIC ADDRESS
CCTV	CLOSED CIRCUIT TELEVISION	PB	PULLBOX
CFM	CUBIC FEET PER MINUTE	PF	POWER FACTOR
CKT	CIRCUIT	Ø or PH	PHASE
CL	CENTER LINE	PNL	PANEL
CLG	CEILING	PR	PAIR
CONC	CONCRETE	PRI	PRIMARY
CT	CURRENT TRANSFORMER	PT	POTENTIAL TRANSFORMER
CU	COPPER	PVC	POLYVINYL CHLORIDE
CW	COLD WATER	RECPT	RECEPTACLE
BD	DECIBELS	REQ	REQUIRED
DC	DIRECT CURRENT	RF	RADIO FREQUENCY
DIA	DIAMETER	RM	ROOM
DIV	DIVISION	RMS	ROOT MEAN SQUARE
DPDT	DOUBLE POLE, DOUBLE THROW	SEC	SECONDARY
DPST	DOUBLE POLE, SINGLE THROW	SHT	SHEET
DWG	DRAWING	SMR	SURFACE METAL RACEWAY
EGC	EQUIPMENT GROUND CONDUCTOR	SN	SOLID NEUTRAL
ELEC	ELECTRIC	SP	SINGLE POLE
EMT	ELECTRICAL METALLIC TUBING	SPD	SURGE PROTECTIVE DEVICE
EXST, (E)	EXISTING	SPDT	SINGLE POLE, DOUBLE THROW
ETR	EXISTING TO REMAIN	SPST	SINGLE POLE, SINGLE THROW
°F	DEGREES FAHRENHEIT	SS	STAINLESS STEEL
FA	FIRE ALARM	STD	STANDARD
FC	FOOTCANDLE	SW	SWITCH
FLA	FULL LOAD AMPS	SWBD	SWITCHBOARD
FLEX	FLEXIBLE CONDUIT	TEL	TELEPHONE
GALV	GALVANIZED	TV	TELEVISION
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TTB	TELECOMMUNICATIONS TERMINAL BOARD
GND	GROUND	TYP	TYPICAL
H-O-A	HAND - OFF - AUTO	UL	UNDERWRITERS LABORATORY
HP	HORSEPOWER	UF	UNDERFLOOR
HPF	HIGH POWER FACTOR	UG	UNDERGROUND
H & V	HEATING AND VENTILATION	V	VOLTS
HVAC	HEATING, VENTILATION & AIR CONDITIONING	VA	VOLT AMPERES
HZ	HERTZ	VAC	VOLTS ALTERNATING CURRENT
IDF	INTERMEDIATE DISTRIBUTION FRAME	VAR	REACTIVE VOLT AMPERES
J-BOX	JUNCTION BOX	VAV	VARIABLE AIR VOLUME
KV	KILOVOLTS	VD	VOLTAGE DROP
KVA	KILOVOLT AMPERES	VDC	VOLTS DIRECT CURRENT
KVAR	REACTIVE KILOVOLT AMPERES	VFD	VARIABLE FREQUENCY DRIVE
KW	KILOWATTS	VT	VAPORTIGHT
KWH	KILOWATT HOURS	W	WATTS
LT	LIGHT	WP	WEATHERPROOF
LTG	LIGHTING	/W	WITH
MAX	MAXIMUM	W/O	WITHOUT
MCA	MINIMUM CIRCUIT AMPS	XFER	TRANSFER
MCB	MAIN CIRCUIT BREAKER	XFMR	TRANSFORMER
MCC	MOTOR CONTROL CENTER	XLP	CROSS-LINKED POLYETHYLENE
MCM, KCM	THOUSAND CIRCULAR MILS	XP	EXPLOSION PROOF
MDF	MAIN DISTRIBUTION FRAME	Z	IMPEDANCE

ELECTRICAL LEGEND			
(SOME SYMBOLS MAY NOT BE USED ON DRAWINGS)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BUBBLE NOTE TAG SYMBOL: # – IDENTIFYING NUMBER		DUPLEX RECEPTACLE (NEMA 5–20R)
	SCHEDULED EQUIPMENT CONNECTION (INCLUDE ALL WIRING, DISCONNECTING MEANS, CONTROL AND OTHER REQUIREMENTS SCHEDULED)		FOURPLEX RECEPTACLE (NEMA 5–20R)
	LIGHTING OUTLET – CEILING		GFCI DUPLEX RECEPTACLE (NEMA 5–20R) SUBSCRIPT: REF REFRIGERATOR DW DISHWASHER FREZ CHEST FREEZER MWO MICROWAVE OVEN
	STRIP LUMINAIRE (LENGTH TO SCALE)		ASTERISK INDICATES COUNTER HEIGHT OUTLET (DUPLEX RECEPTACLE SHOWN)
	LUMINAIRE (TO SCALE ON DRAWINGS)		DRYER RECEPTACLE (NEMA 14–30R)
	RECESSED FIXTURE – ROUND		SPLIT WIRED RECEPTACLE, 1/2 OF RECEPTACLE IS CONTROLLED BY OCCUPANCY SENSOR OR TIMESWITCH
	EXIT FIXTURE		SPLIT WIRED FOURPLEX (1) DUPLEX RECEPTACLE UNSWITCHED, (1) DUPLEX RECEPTACLE CONTROLLED BY OCCUPANCY SENSOR OR TIME SWITCH
	LUMINAIRE WITH EMERGENCY LIGHTING UNIT		COPY MACHINE RECEPTACLE (NEMA 5–20R)
	LAY–IN LUMINAIRE		JUNCTION BOX
	EMERGENCY SURFACE FIXTURE		INDOOR POWER POLE
	EMERGENCY FIXTURE – TWIN HEAD		MOTOR CONNECTION
	EXIT FIXTURE		PANELBOARD
	SINGLE POLE TOGGLE SWITCH		DISCONNECT SWITCH
	DIGITAL SWITCH STATION		DRY TYPE TRANSFORMER
	SWITCH SUBSCRIPTS: 2 DOUBLE POLE 3 THREE WAY 4 FOUR WAY D DIMMER EP EXPLOSION PROOF K KEY OPERATED LV LOW VOLTAGE LVM LOW VOLTAGE MASTER M MANUAL MOTOR STARTER W/OVERLOADS MC MOMENTARY CONTACT P SWITCH W/PILOT LIGHT T TIMER WP WEATHERPROOF a, b, c MULTIGANG SWITCH STATION		DATA (COMPUTER) OUTLET WITH JACK
	OCCUPANCY SENSOR – CEILING MOUNT		FEEDER CALLOUT X–Y–Z. SEE SCHEDULE.
	DAYLIGHT SENSOR		DEVICE SIZE / FUSE OR TRIP RATING – No. OF POLES
			HEAVY LINE WEIGHT = NEW WORK (RECEPTACLE SHOWN)
			STANDARD LINE WEIGHT = EXISTING TO REMAIN (RECEPTACLE SHOWN)
			BROKEN LINE WORK = ELECTRICAL DEMOLITION (RECEPTACLE SHOWN)

MECHANICAL EQUIPMENT CONNECTION SCHEDULE													
NAME	DESCRIPTION	LOCATION	MAXIMUM RATINGS					(CU) FEEDER		DISCONNECT		CONTROLS	REMARKS
			HP	KVA	FLA	MCA	MOCP	VOLT/PH	#12 EACH PHASE + NEUTRAL +GND. UNO.	BY	DESCRIPTION	STARTER	
												BY DESCRIPTION	
EF-1	EXHAUST FAN	ROOF	1/4	0.70	5.8	7.3	15	120 1	3/4" C-2#12 + #12G	●	TOGGLE		
EF-2	EXHAUST FAN	ROOF	1/4	0.70	5.8	7.3	15	120 1	3/4" C-2#12 + #12G	●	TOGGLE		

EQUIPMENT CONNECTION SCHEDULE NOTES:

1. VERIFY VOLTAGE, PHASE, FLA/MCA OF EACH CONNECTION WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. NOTIFY ARCHITECT/ENGINEER WHEN SCHEDULED SUPPLY WILL NOT MEET NEC REQUIREMENTS.

2. OUTLETS, DISCONNECTS, CONTROLLERS, AND EQUIPMENT CONNECTIONS FOR ROOF TOP AND OTHER OUTDOOR EQUIPMENT SHALL BE WEATHER PROOF.

3. LOCATION OF OUTLETS, DISCONNECTS, CONTROL DEVICES, AND EQUIPMENT CONNECTIONS ARE DIAGRAMMATIC AND TO BE LOCATED IN FIELD BY THE CONTRACTOR AS APPROVED BY THE ENGINEER. UNLESS OTHERWISE INDICATED ON PLANS, INSTALL SCHEDULED DISCONNECTS AND CONTROL DEVICES IN SIGHT OF EQUIPMENT. ARRANGE WIRING AND EQUIPMENT TO AVOID INTERFERENCE WITH OTHER WORK AND TO MAXIMIZE ACCESSIBILITY FOR MAINTENANCE AND REPAIRS.

4. COORDINATE WITH THE OTHER INSTALLING CONTRACTORS TO ENSURE NEC REQUIRED ACCESS TO DISCONNECTS IS PROVIDED FOR EACH PIECE OF EQUIPMENT.

5. PROVIDE SMOKE DUCT DETECTORS IN HEATING AND COOLING SYSTEMS PER INTERNATIONAL MECHANICAL CODE. SEE DIVISION 25 EQUIPMENT SCHEDULES FOR ADDITIONAL UNITS RATED COMBINED 2000 CFM OR GREATER AND PROVIDE DUCT DETECTOR AS REQUIRED.

6. WIRING BETWEEN EQUIPMENT DISCONNECT AND POINT OF CONNECTION SHALL COMPLY WITH NEC BASED ON EQUIPMENT NAMEPLATE RATING EXCEPT MINIMUM BRANCH CIRCUIT RATING SHALL BE 20 AMPERES.

7. SIZE OF DISCONNECT SWITCH AND MOTOR STARTER SHALL BE SIZED TO COMPLY WITH NEC REQUIREMENTS. WHERE INDICATED MOTOR CONTROL IS NOT LOCATED IN SIGHT OF MOTOR AS DEFINED BY NEC, PROVIDE ADDITIONAL DISCONNECTING MEANS TO COMPLY WITH NEC 430.102.

8. WIRING SIZES ARE BASED ON 60 DEGREE C. FOR AMPACITIES 100 AMPERES AND LESS. FOR FEEDERS LESS THAN 100 FEET IN LENGTH, CONDUCTOR SIZES MAY BE SELECTED BASED ON 75 DEGREE C. WHERE EQUIPMENT INSTALLED IS LABELED FOR 75 DEGREE C. WIRING.

9. SCHEDULE LEGEND:

●

= FURNISH AND INSTALL NEW UNDER DIVISION 26

○

= INSTALL UNDER DIVISION 26; FURNISHED WITH EQUIPMENT OR BY OTHERS.

X

= FURNISH AND INSTALL BY OTHERS (NOT DIVISION 26)

\*

= EXISTING, RELOCATED EQUIPMENT

GENERAL ELECTRICAL NOTES:

- SEE ARCHITECTURAL PLANS FOR LOCATION OF FIRE RATED CONSTRUCTION.
- BRANCH CIRCUIT NOTES:
  - VERIFY BRANCH CIRCUIT WIRE COUNT BEFORE PULLING CONDUCTORS. PROVIDE REQUIRED CONDUCTORS TO EACH OUTLET AND DEVICE FOR PHASE, NEUTRAL AND EQUIPMENT GROUND BASED ON CIRCUIT DESIGNATIONS SHOWN AND AS OTHERWISE INDICATED ON PLANS OR NOTE BELOW.
  - PROVIDE SEPARATE NEUTRAL CONDUCTOR FOR BRANCH CIRCUITS SERVING RECEPTACLE OUTLETS UNLESS OTHERWISE INDICATED.
  - MINIMUM BRANCH CIRCUIT CONDUCTOR SIZE FOR OUTDOOR AND EXTERIOR BUILDING LIGHTING SHALL BE MINIMUM NO. #10 AWG. PROVIDE LARGER SIZE FEEDER PER CODE WHERE EQUIPMENT MCA EXCEEDS 30 AMPS.
- MINIMUM CONDUIT SIZE FOR HOMERUNS SHALL BE 3/4 INCH.
- REFER TO ARCHITECTURAL PLANS FOR LIGHT FIXTURE LOCATIONS AND FOR MOUNTING HEIGHT OF SUSPENDED AND WALL MOUNTED LIGHT FIXTURES. REFER TO REFLECTED CEILING PLANS, INTERIOR ELEVATIONS, EXTERIOR ELEVATIONS, ROOM SECTIONS, AND DETAILS SHOWN ON ARCHITECTURAL CONTRACT DOCUMENTS PRIOR TO ROUGH-IN. REPORT CONFLICTS TO ARCHITECT/ENGINEER FOR RESOLUTION.
- REFER TO ARCHITECTURAL ELEVATIONS FOR LOCATION AND MOUNTING HEIGHT OF WIRING DEVICES. REPORT CONFLICTS TO ARCHITECT/ENGINEER FOR RESOLUTION.
- VERIFY BACK BOX REQUIREMENTS OF EQUIPMENT FURNISHED UNDER OTHER THAN DIVISION 26, 27 OR 28 SECTIONS AND EQUIPMENT FURNISHED BY OWNER.

ENERGY CODE COMPLIANCE NOTES

- MANUAL LIGHTING CONTROL: PROVIDE EACH ROOM WITH MANUAL LIGHTING CONTROL AS INDICATED. REMOTE LIGHTING CONTROLS SHALL IDENTIFY WHERE LIGHTS ARE CONTROLLED AND ON/OFF STATUS. MANUAL CONTROLS FOR SPACES NOT COVERED IN C405.2.1 LISTED EXCEPTIONS SHALL INCLUDE PROVISION FOR 50% LIGHT REDUCTION.
- OCCUPANCY SENSORS: PROVIDE OCCUPANCY SENSORS IN ALL CLASSROOMS, CONFERENCE/MEETING ROOMS, LUNCH AND BREAK ROOMS, PRIVATE OFFICES, RESTROOMS, WAREHOUSE AND STORAGE SPACES, JANITORIAL CLOSETS, AND OTHER SPACES 300 SQUARE FEET OR LESS.
- MOTORS SHALL COMPLY WITH EFFICIENCY REQUIREMENTS OF C405.8, SEE MECHANICAL DOCUMENTS FOR MOTOR EFFICIENCY DATA.

DRAWING INDEX	
SHEET #	DESCRIPTION
E0-1	ABBREVIATIONS, LEGEND, & NOTES
E1-1	ELECTRICAL DEMOLITION PLANS
E2-1	ELECTRICAL POWER AND LIGHTING PLANS
E5-1	ONE-LINE DIAGRAM

**LAWHEAD ARCHITECTS P.S.**

1239 120TH AVE. N.E., STE. D  
BELLEVUE, WA 98005  
(425) 556-1220

SIGNATURE

SIGNED  
9-23-2024

OWNER...

King County  
Housing  
Authority

King County Housing Authority

600 BUILDING

Bathroom Remodel

PHASE...

Construction Documents

JOB NO...

24–08

DATE...

9/23/24

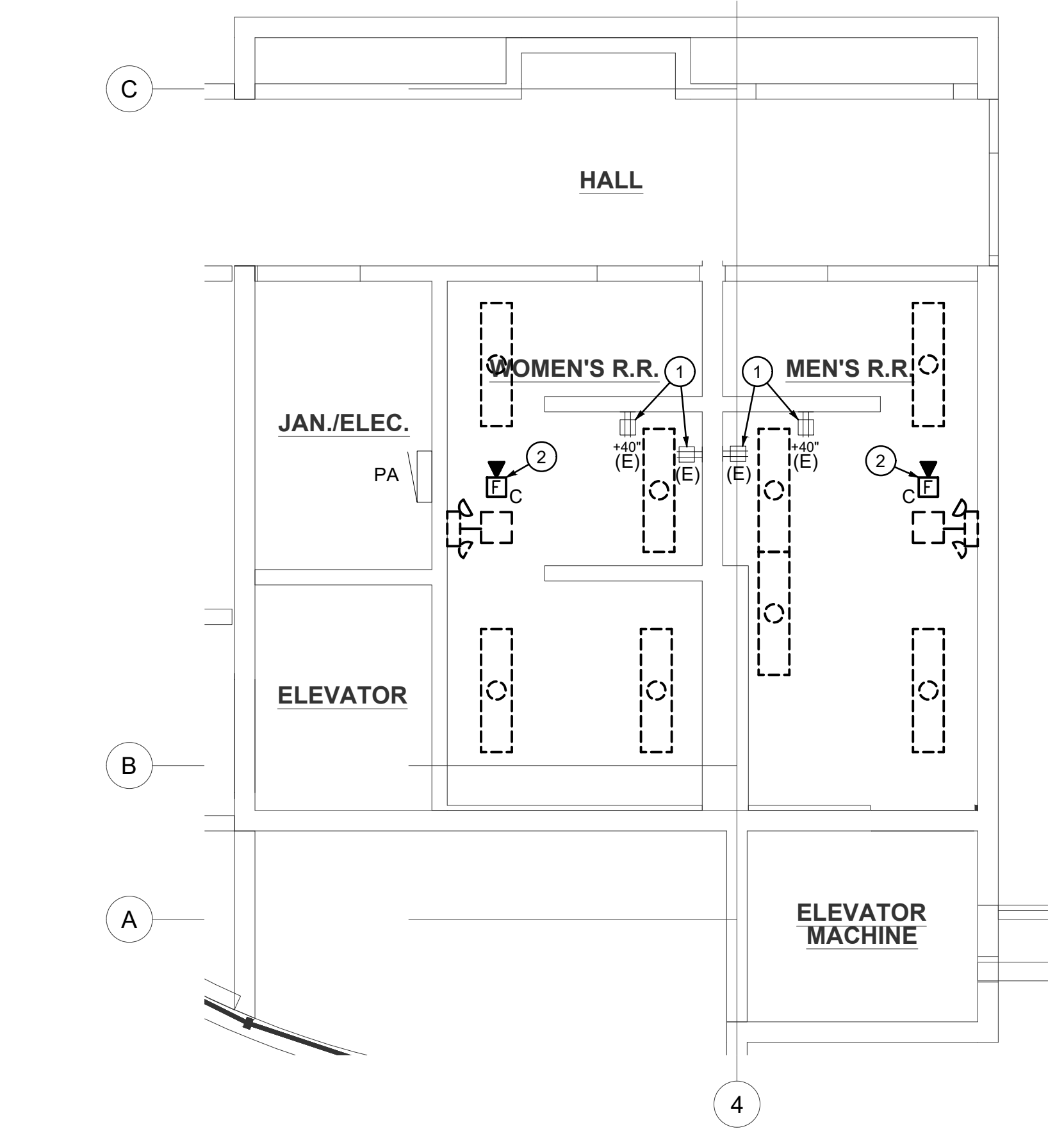
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ABBREVIATIONS, LEGEND, & NOTES

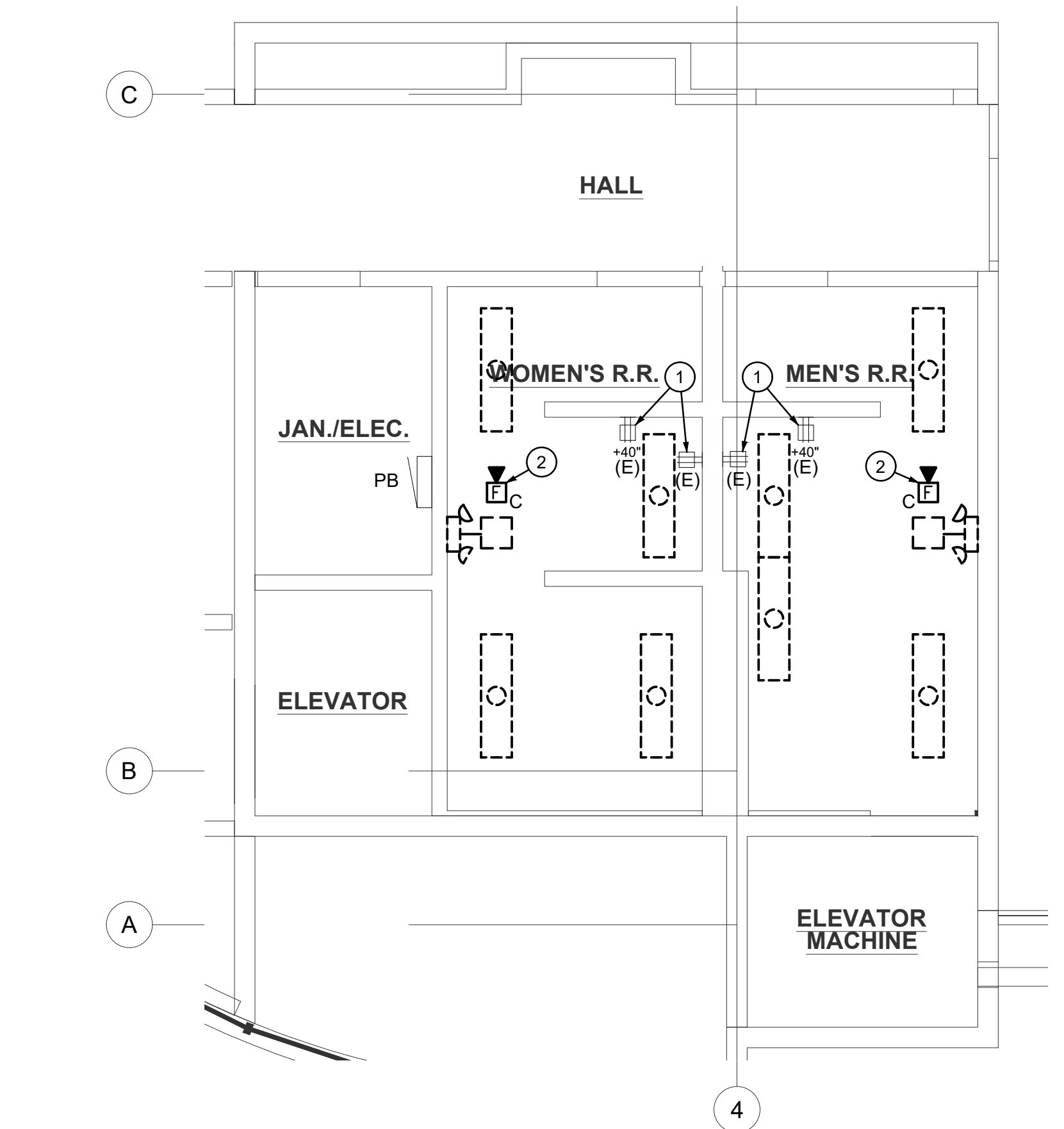
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NORTH  
 FIRST FLOOR PLAN - DEMO  
 SCALE: 1/4" = 1'-0"



NORTH  
 SECOND FLOOR PLAN - DEMO  
 SCALE: 1/4" = 1'-0"

GENERAL NOTES:

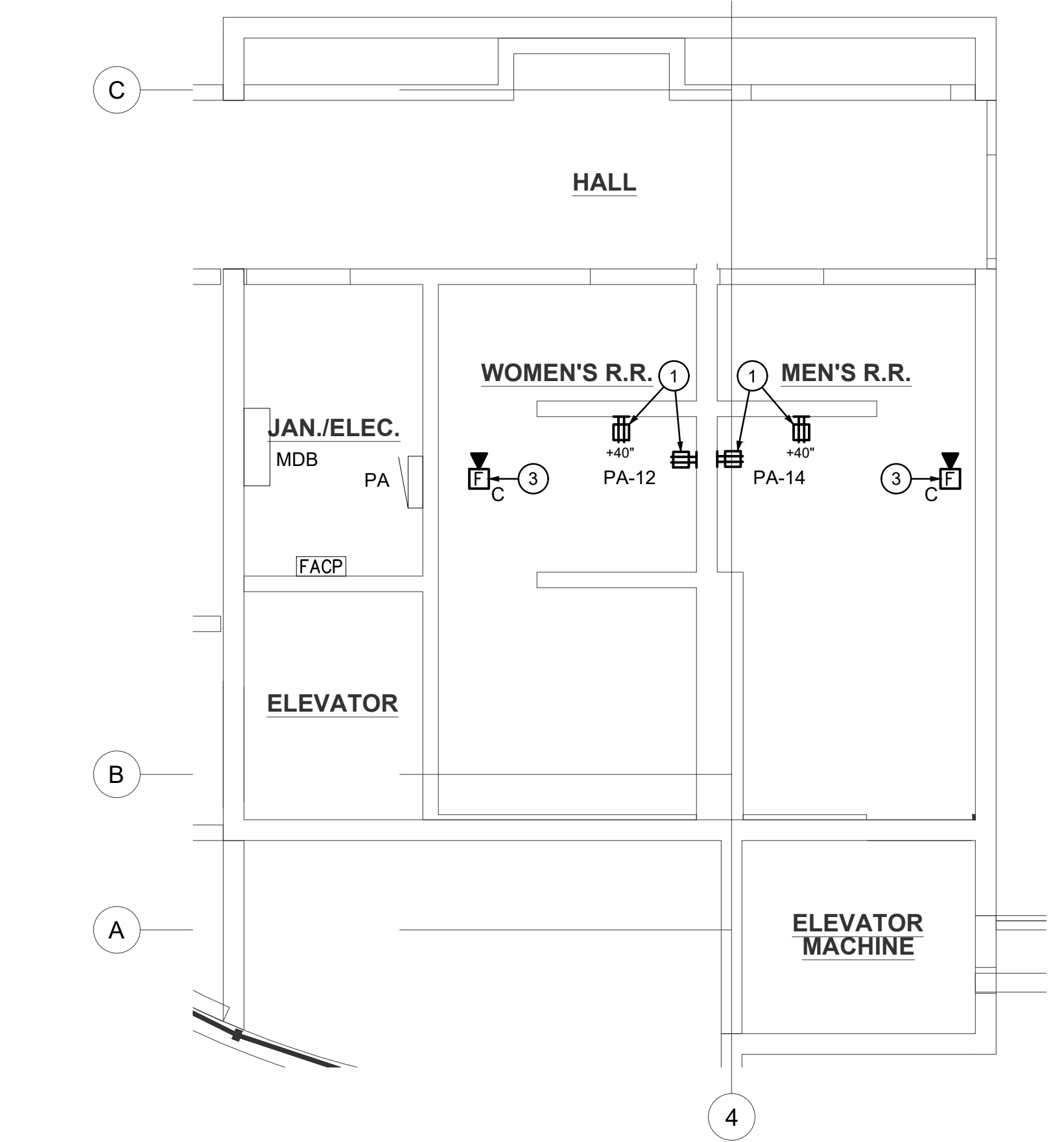
- REFER TO GENERAL ELECTRICAL NOTES ON SHEET E0-1 FOR ADDITIONAL INFORMATION.
- CONTRACTOR TO VERIFY ALL CIRCUITING PRIOR TO BEGINNING WORK. ALL CIRCUITS IDENTIFY ARE BASED ON LIMITED FIELD OBSERVATIONS AND OWNER PROVIDED AS-BUILTS.

PLAN NOTES:

- EXISTING OUTLETS TO BE REPLACED. REMOVE EXISTING GFCI DUPLEX OUTLET AND FACEPLATE. EXISTING WIRING TO REMAIN FOR RECONNECTION.
- SALVAGE FIRE ALARM HORN/STROBE FOR REINSTALLATION. WIRING IS TO REMAIN FOR RECONNECTION.

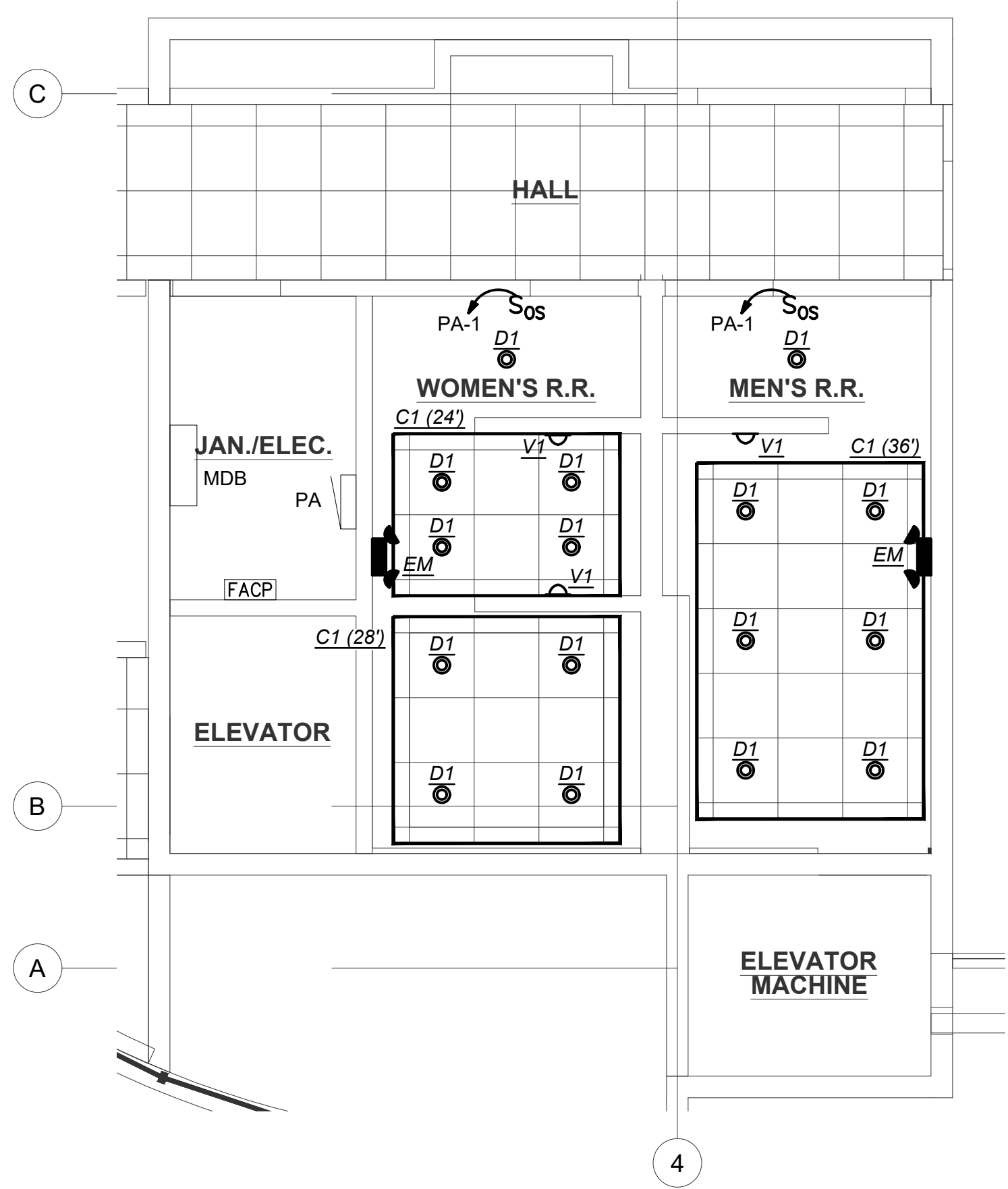


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FIRST FLOOR PLAN - POWER

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



FIRST FLOOR PLAN - LIGHTING

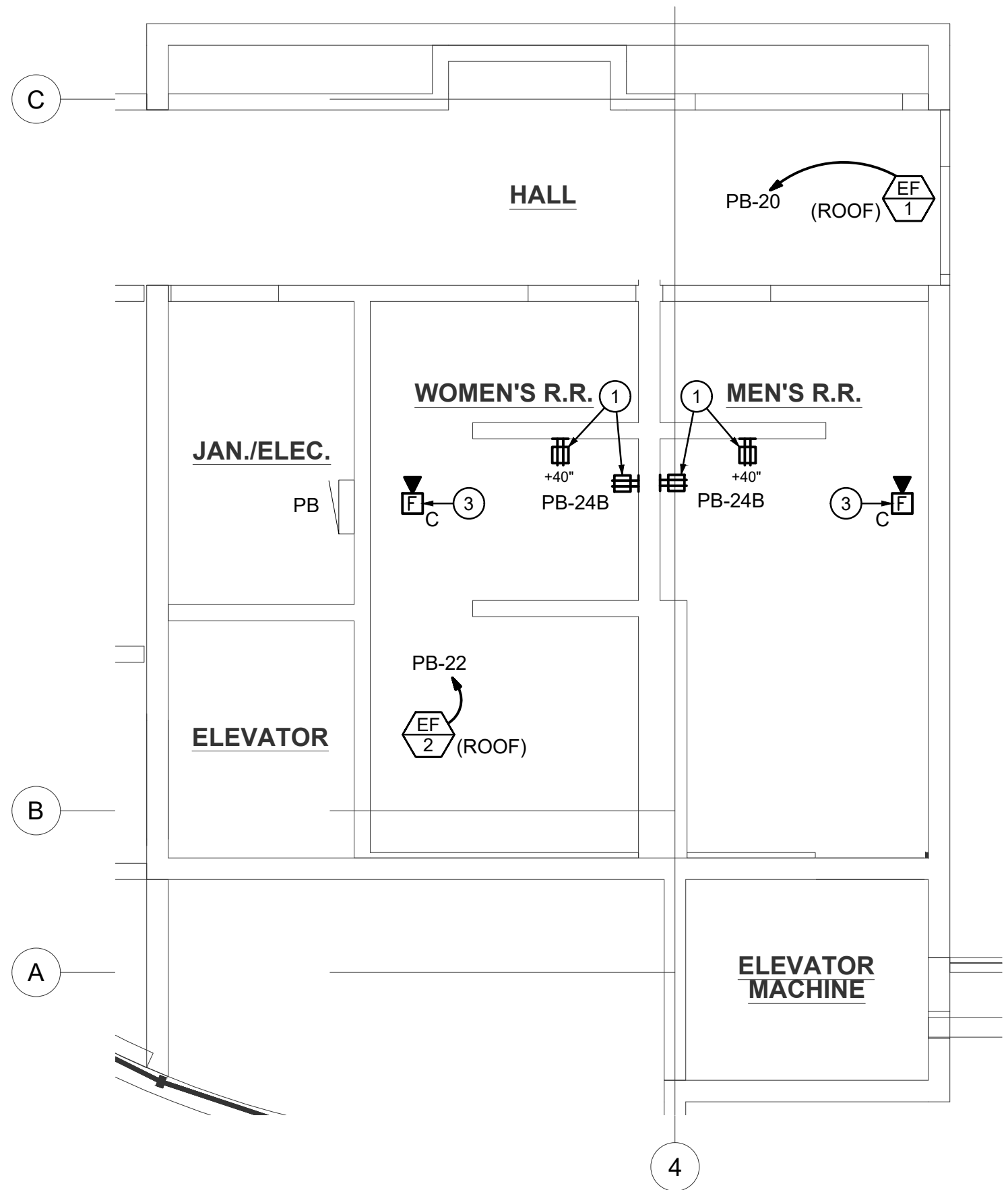
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- REFER TO GENERAL ELECTRICAL NOTES ON SHEET E0-1 FOR ADDITIONAL INFORMATION.
- CONTRACTOR TO VERIFY ALL CIRCUITING PRIOR TO BEGINNING WORK. ALL CIRCUITS IDENTIFY ARE BASED ON LIMITED FIELD OBSERVATIONS AND OWNER PROVIDED AS-BUILTS.

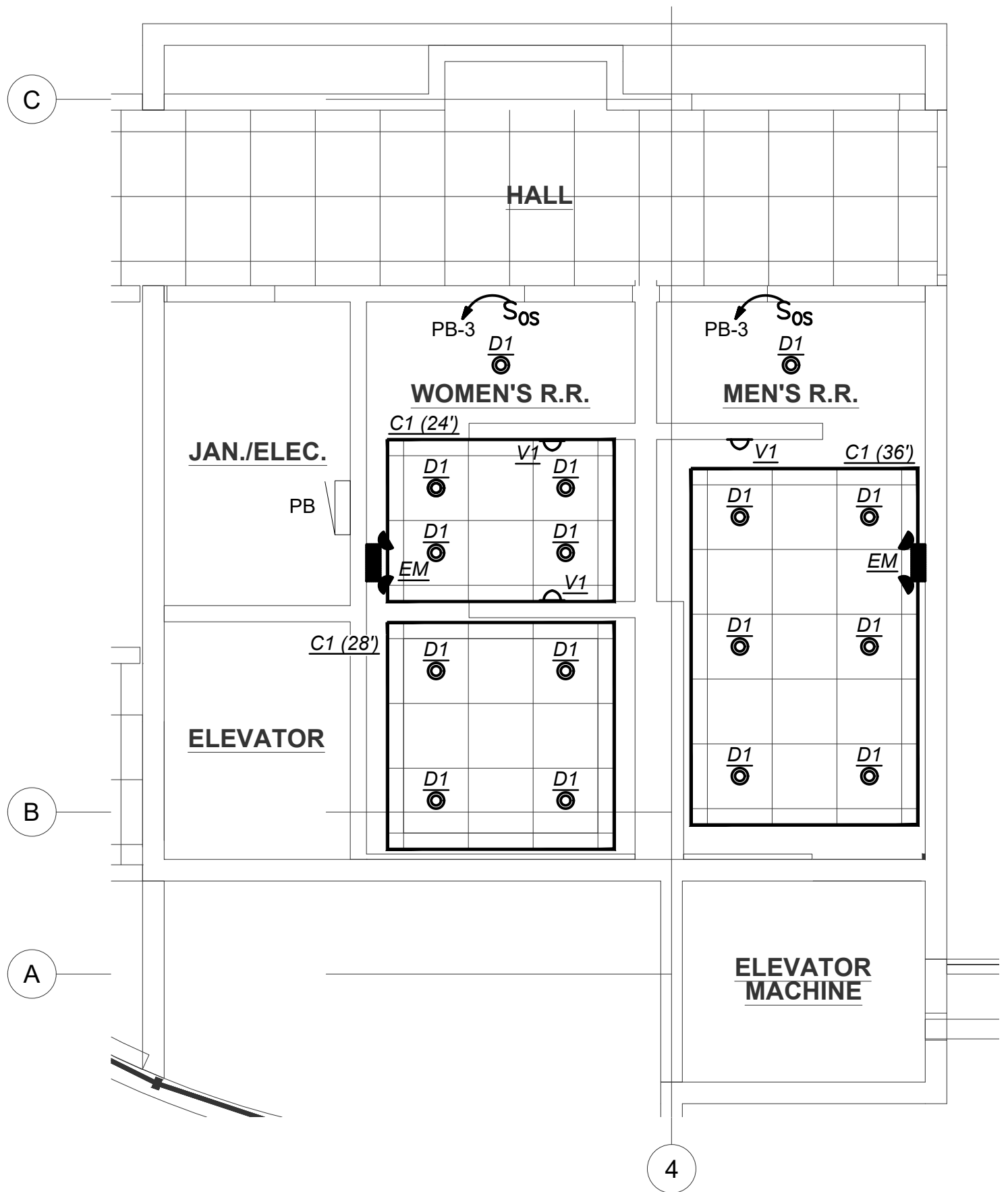
PLAN NOTES:

- EXISTING OUTLETS TO BE REPLACED WITH NEW. PROVIDE NEW GFCI DUPLEX OUTLET AND NEW FACEPLATE. CONNECT TO EXISTING CIRCUIT.
- NOT USED
- REINSTALL SALVAGED FIRE ALARM HORN/STROBE. RECONNECT TO EXISTING WIRING.



SECOND FLOOR PLAN - POWER

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



SECOND FLOOR PLAN - LIGHTING

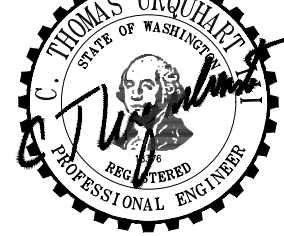
SCALE: 1/4" = 1'-0"

LUMINAIRE SCHEDULE							
TYPE	DESCRIPTION	MANUFACTURER	LAMP	VOLTAGE	INPUT WATTS	BALLAST/ DRIVER	REMARKS
C1	COVE LIGHTING, 45 DEGREE CHANNEL, ALUMINUM FINISH, FROSTED LENS	DIOELED BLAZE SERIES	LED 3500K 126 LM/FT	24VDC	1.5W / FT	0-10V	PROVIDE POWER SUPPLY AS REQUIRED. LENGTH VARIES, SEE PLANS
D1	4" DOWNLIGHT, SEMI SPECULAR FINISH, MEDIUM WIDE DISTRIBUTION	LITHONIA LIGHTING LDN4 SERIES	LED 3500K 1500 LUMENS	120V	19	0-10V	
V1	24" VANITY LIGHT, SILVER FINISH	INDESSA 444 SERIES	LED 3500K 2380 LUMENS	120V	24	0-10V	
EM	EMERGENCY TWIN HEAD FIXTURE, WHITE, WITH SELF DIAGNOSTICS	LITHONIA LIGHTING ELM2L SERIES	LED	120V	2.4	-	

GENERAL LUMINAIRE SCHEDULE NOTES:

- LED LUMENS ARE BASED ON TOTAL ILLUMINATION OUTPUT OF THE LUMINAIRE UNLESS OTHERWISE INDICATED.
- VERIFY STEM, CHAIN, OR CABLE LENGTH WITH FIXTURE VENDOR AS REQUIRED TO ACCOMMODATE THE INDICATED MOUNTING HEIGHT MEASURED TO BOTTOM OF FIXTURE.
- LED DRIVERS FOR LOW VOLTAGE DIMMING SHALL BE 0-10 VOLTS [ DIGITAL SIGNAL DIMMING INTERFACE TYPE ] UNLESS OTHERWISE INDICATED.
- LED DRIVERS FOR LINE VOLTAGE DIMMING SHALL BE REVERSE PHASE ELECTRONIC LOW VOLTAGE (ELV) UNLESS OTHERWISE APPROVED BY THE ARCHITECT.

SIGNATURE



SIGNED 9-23-2024

OWNER...



King County Housing Authority  
 600 BUILDING  
 Bathroom Remodel

PHASE...

Construction Documents

JOB NO...

24-08

DATE...

9/23/24

SHEET TITLE...

ELECTRICAL  
 POWER AND  
 LIGHTING PLANS

SHEET NO...



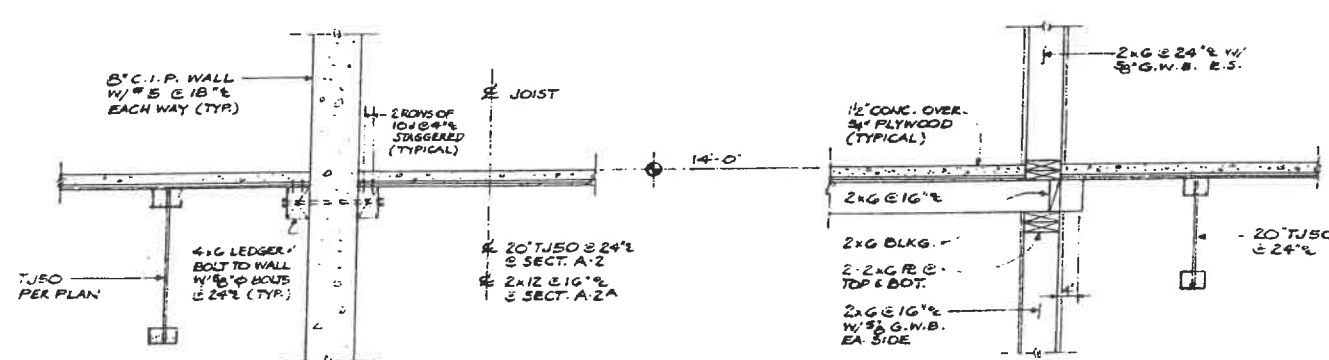
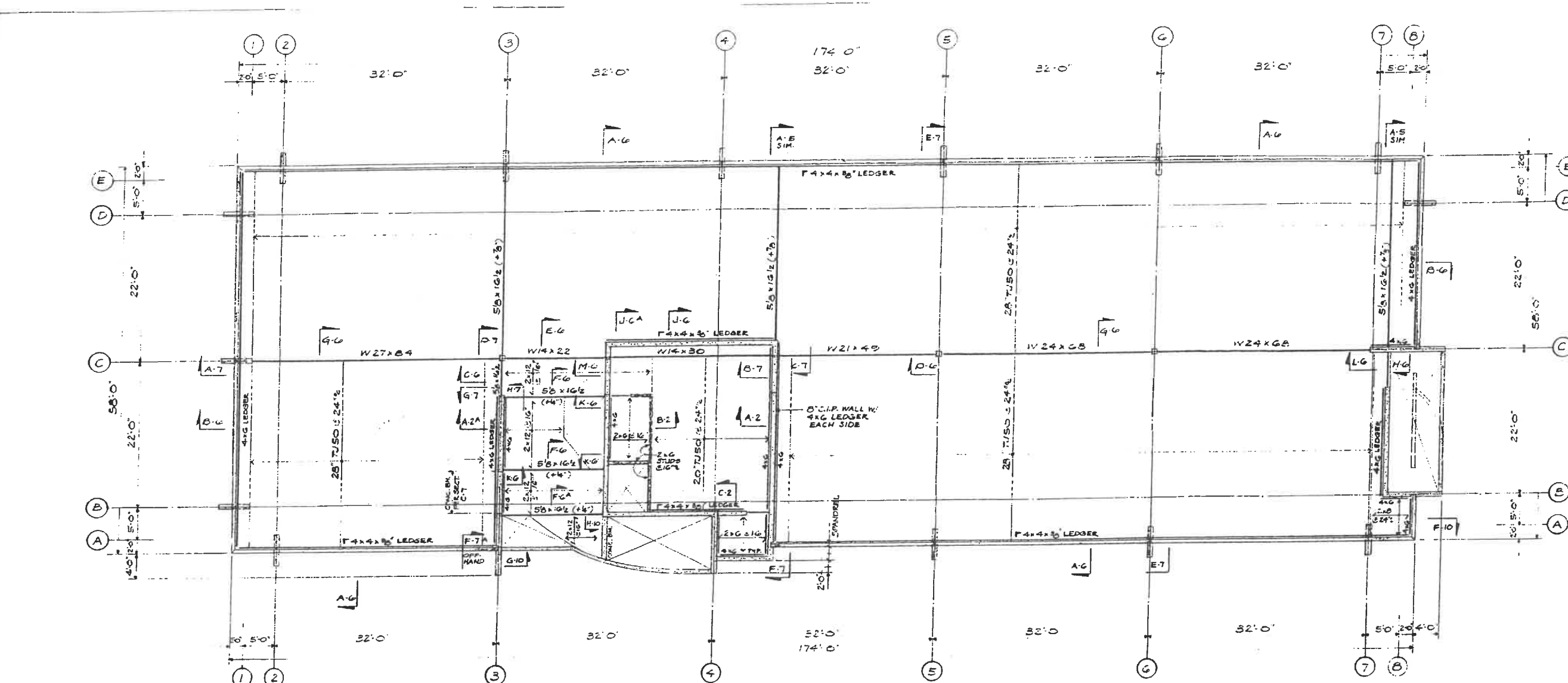
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LOAD CALCULATION - 30 DAY MINIMUM RECORDING				
480/277V - 3PH				
PANEL MDB				
DESCRIPTION				REMARKS
RECORDING PERIOD				HIGHEST RECORDED
PEAK AMPERES	125.12	AMPS	104.0	KVA
SEASONAL ADJUSTMENT			100%	
ADJUSTED DEMAND			104.0	KVA
OCCUPANCY ADJUSTMENT			100%	
ADJUSTED DEMAND			104.0	
DEMAND FACTOR			125%	
ADJUSTED DEMAND			130.0	KVA
LOAD ADDED 3-05-24			393.9	KVA
NEW LOAD ADDED			2.4	KVA
TOTAL LOAD				526.3 KVA
				633.4 AMPS

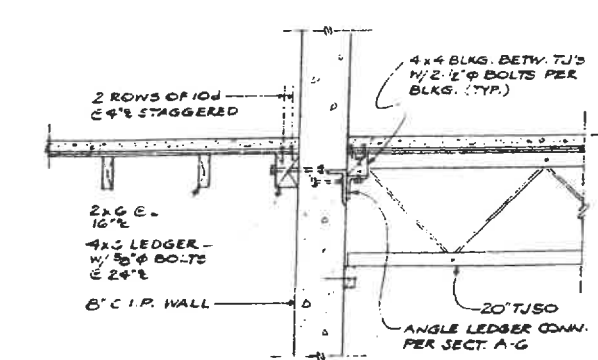
REVISED															THREE PHASE PANEL SCHEDULE																							
PA															VOLTAGE: 208/120			4W			RATING: 200 A			MAIN:			LUG											
GRID															ENCLOSURE						ACCESSORIES						AIC ASSEMBLY											
SECTION 1 OF 1															FLUSH						ISOLATED GROUND						SERVICE RATED											
LOCATION: ELEC CLOSET															X SURFACE						SPD						SERIES RATED											
															X NEMA TYPE 1						200% NEUTRAL						X 10K											
															NEMA TYPE 3R						FEED THRU LUGS						22K											
															NEMA TYPE 12						DOUBLE LUGS						42K											
DESCRIPTION															VA	BKR	CKT	A	B	C	CKT	BKR	VA	DESCRIPTION														
RESTROOM LIGHTS															588	20/1*	1	1228			2	20/1	720	RECEPT. PERIMETER WALL														
RECEPTACLES															720	20/1*	3		1440		4	20/1	720	RECEPTACLES														
RECEPTACLES															720	20/1	6			1440	6	20/1	720	RECEPT. PERIMETER WALL														
RECEPTACLES															720	20/1	7	1440			8	20/1	720	RECEPT. PERIMETER WALL														
RECEPTACLES															720	20/1	9		1440		10	20/1	720	RECEPTACLES														
RECEPTACLES															720	20/1	11			1080	12	20/1	360	GFCI RECEPT. RESTROOMS														
RECEPTACLES															720	20/1	13	1080			14	20/1	360	GFCI RECEPT. RESTROOMS														
RECEPTACLES															720	20/1	15		11596		16	100/3	10876	PANEL PB														
RECEPTACLES															720	20/1	17			9426	18		8706															
RECEPTACLES															720	20/1	19	14680			20		13960															
TELEPHONE RECEPTACLE															360	20/1	21		1080		22	20/1	720	RECEPTACLES														
RECEPTACLES															720	20/1	23			1220	24	20/1	500	SPINKLER WATER ALARM														
BATHROOM VANITY															100	20/1	25	600			26	20/1	500	SPRINKLER SYSTEM														
FIRE ALARM PANEL															500	20/1	27		7220		28	100/3	6720	PANEL P5														
RECEPTACLES															720	20/1	29			7440	30		6720															
ADT SYSTEM															500	20/1	31	7220			32		6720															
4 WORK STATIONS															1000	20/1	33		1500		34	20/1	500	LOW VOLTAGE PANEL														
RECEPTACLES															720	20/1	35			9680	36	100/3	8960	PANEL P2														
MAIN ENTRY LIGHTS (DESK)															500	20/1	37	9460			38		8960															
2 WORK STATIONS															500	30/2	39		9460		40		8960															
															500		41			500	42			SPACE														
BREAKER CODE:																									35708	33736	30786	VA PANEL PA										
A=AFCI, G=GFCI, N=SWITCHED NEUTRAL, S=SHUNT TRIP																												VA										
K=KEYED, P=PADLOCK ATTACHMENT																												VA										
																									35708	33736	30786	VA SUB-TOTAL										
															KVA			KVA											TOTAL LOAD	KVA	AMPS							
LIGHTING															2.6	X	125%	3.3											CONNECTED	100.0	272.5							
RECEPTACLES															10.0	X	100%	10.0											CALCULATED	62.0	177.1							
RECEPTACLES OVER 10K															77.2	X	50%	38.6																				
MOTORS															1.4	X	100%	1.4																				
LARGEST MOTOR																X	125%																					
KITCHEN															6.2	X	100%	6.2																				
NONCOINCIDENT																X	0%																					
REMAINDER															2.5	X	100%	2.5																				
EV CHARGER																X	125%																					
																									REMARKS													
																									* NEW LOAD ON EXISTING BREAKER													
																									LIGHT LINE WEIGHT EQUALS EXISTING													
																									HEAVY LINE WEIGHT EQUALS NEW													

REVISED															THREE PHASE PANEL SCHEDULE																																																	
<b>PB</b> <b>GRID</b> SECTION 1 OF 1 LOCATION: ELEC CLOSET															VOLTAGE: 208/120					4W					RATING: 225 A					MAIN:					BREAKER																													
															ENCLOSURE										ACCESSORIES										AIC ASSEMBLY																													
															FLUSH										ISOLATED GROUND										SERVICE RATED																													
															X SURFACE										SPD										SERIES RATED																													
															X NEMA TYPE 1										200% NEUTRAL										X 10K																													
															NEMA TYPE 3R										FEED THRU LUGS										22K																													
															NEMA TYPE 12										DOUBLE LUGS										42K																													
DESCRIPTION															*	VA		BKR		CKT		A		B		C		CKT		BKR		VA		*	DESCRIPTION																													
RECEPTACLES																720		20/1		1		2220								2		20/1		1500		AC UNIT RECEPTACLE																												
CORE LIGHTING																588		20*/20		3				758						4		20/1		250		CIRCULATION PUMP																												
RECEPTACLES																1440		20/20		5								2440		6		20/1		1000		CORE LIGHTING																												
RECEPTACLES																1440		20/20		7		2880								8		20/20		1440		RECEPTACLES																												
RECEPTACLES																1440		20/20		9				2880						10		20/20		1440		RECEPTACLES																												
RECEPT. PERIMETER																1440		20/20		11						2880				12		20/20		1440		RECEPT. PERIMETER																												
WORK STATION																500		20/20		13		1940								14		20/20		1440		RECEPTACLES																												
WORK STATION																500		20/20		15				1940						16		20/20		1440		RECEPTACLES / FURNACE																												
WIREMOLD																1440		20/20		17						2880		18		20/20		1440		RECEPTACLES / FURNACE																														
220 OUTLET																500		20/2		19		1196						20		20/1*		696		RESTROOM EXHAUST FAN																														
OFFICE RECEPTACLES																1440		20/20		23				1196				2880		24		20/20		1440		RESTROOM EXHAUST FAN																												
PRINTER / RESTROOM GFCI																1200		20/20		25		2640								26		20/20		1440		RECEPTACLES																												
RECEPTACLES																720		20/1		27				2160						28		20/20		1440		RECEPTACLES																												
RECEPTACLES																1440		20/20		29						2880		30		20/20		1440		RECEPTACLES																														
BREAKER CODE:																									10876	8934		13960										VA PANEL PB																										
A=AFCI, G=GFCI, N=SWITCHED NEUTRAL, S=SHUNT TRIP																																						VA																										
K=KEYED, P=PADLOCK ATTACHMENT																																						VA																										
																									10876	8934		13960										VA SUB-TOTAL																										
																									KVA												KVA												TOTAL LOAD		KVA		AMPS											
LIGHTING															1.5		X		125%		1.9												CONNECTED		33.8		93.7																											
RECEPTACLES															10.0		X		100%		10.0												CALCULATED		23.7		65.8																											
RECEPTACLES OVER 10K															20.9		X		50%		10.4																																											
MOTORS															1.4		X		100%		1.4																																											
LARGEST MOTOR																	X		125%																																													
KITCHEN																	X		100%																																													
NONCOINCIDENT																	X		0%																																													
REMAINDER																	X		100%																																													
EV CHARGER																	X		125%																																													

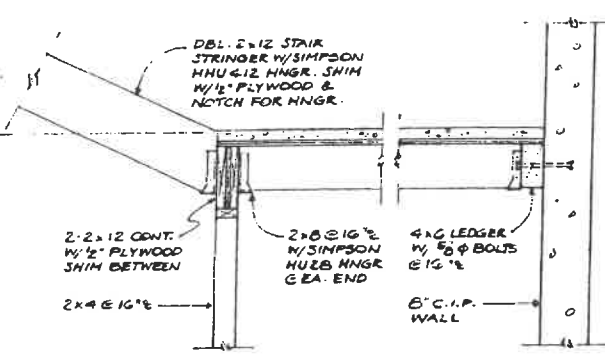




SECTION B-2  
14'-0"



SECTION C-2  
14'-0"



SECTION D-2  
14'-0"

## 2ND FLOOR FRAMING PLAN

- NOTES:
- 1) TOP OF 4" PLYWOOD @ ELEVATION 13'-10 1/2"
  - 2) NAIL PLYWOOD TO TRUSSES W/ 10" x 12" AT INTERMEDIATE SUPPORTS & AT G' & C PANEL EDGES.