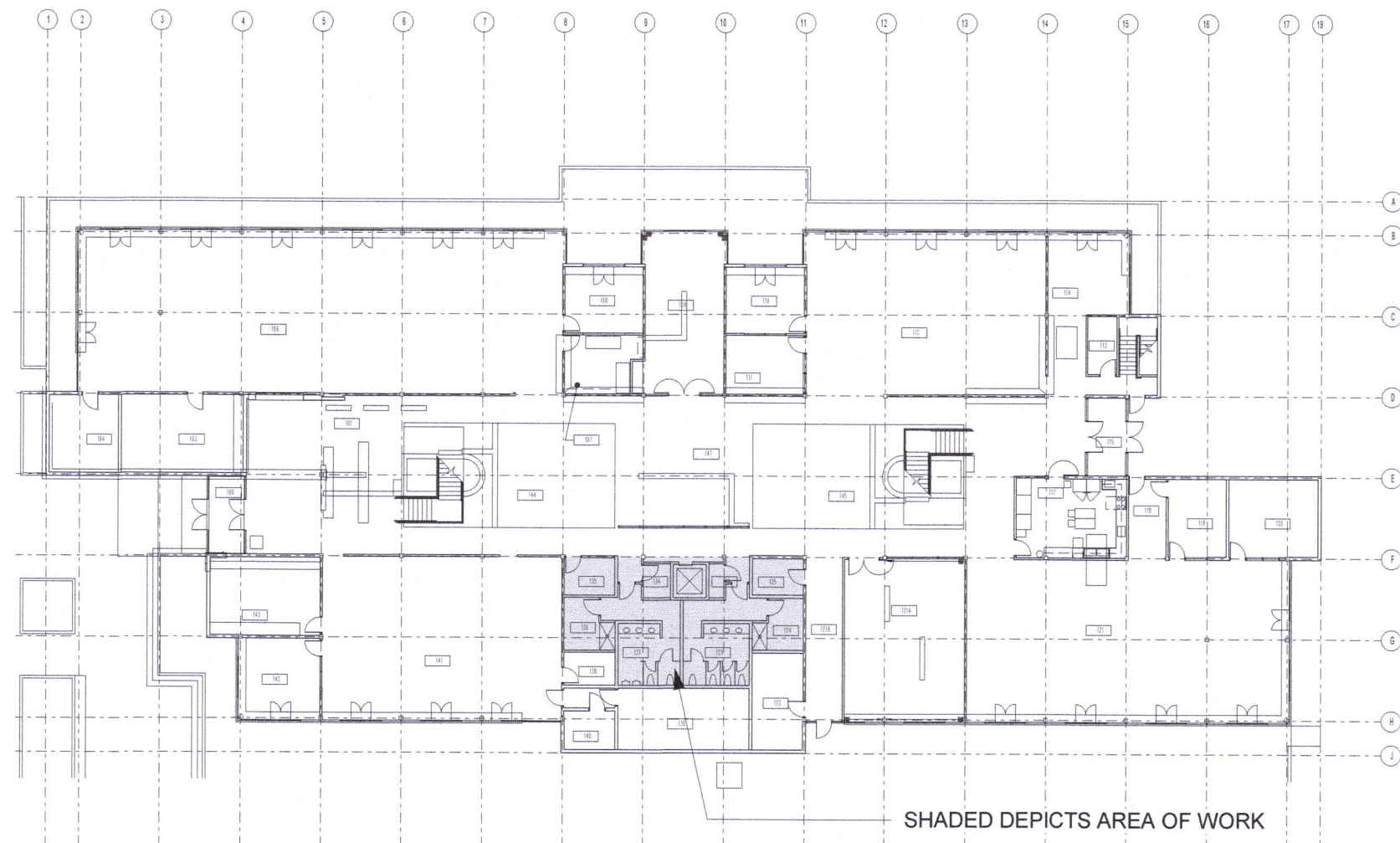
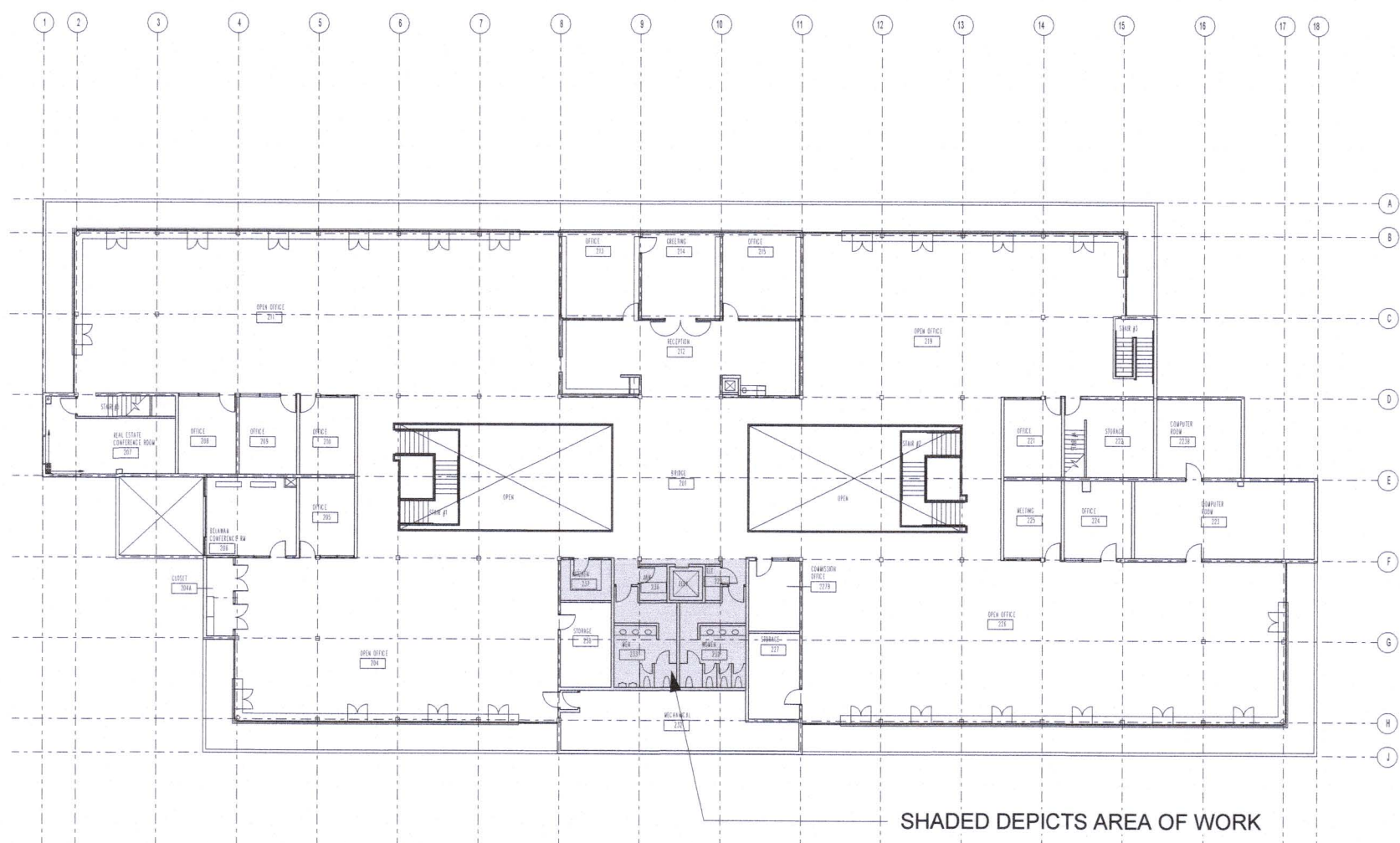
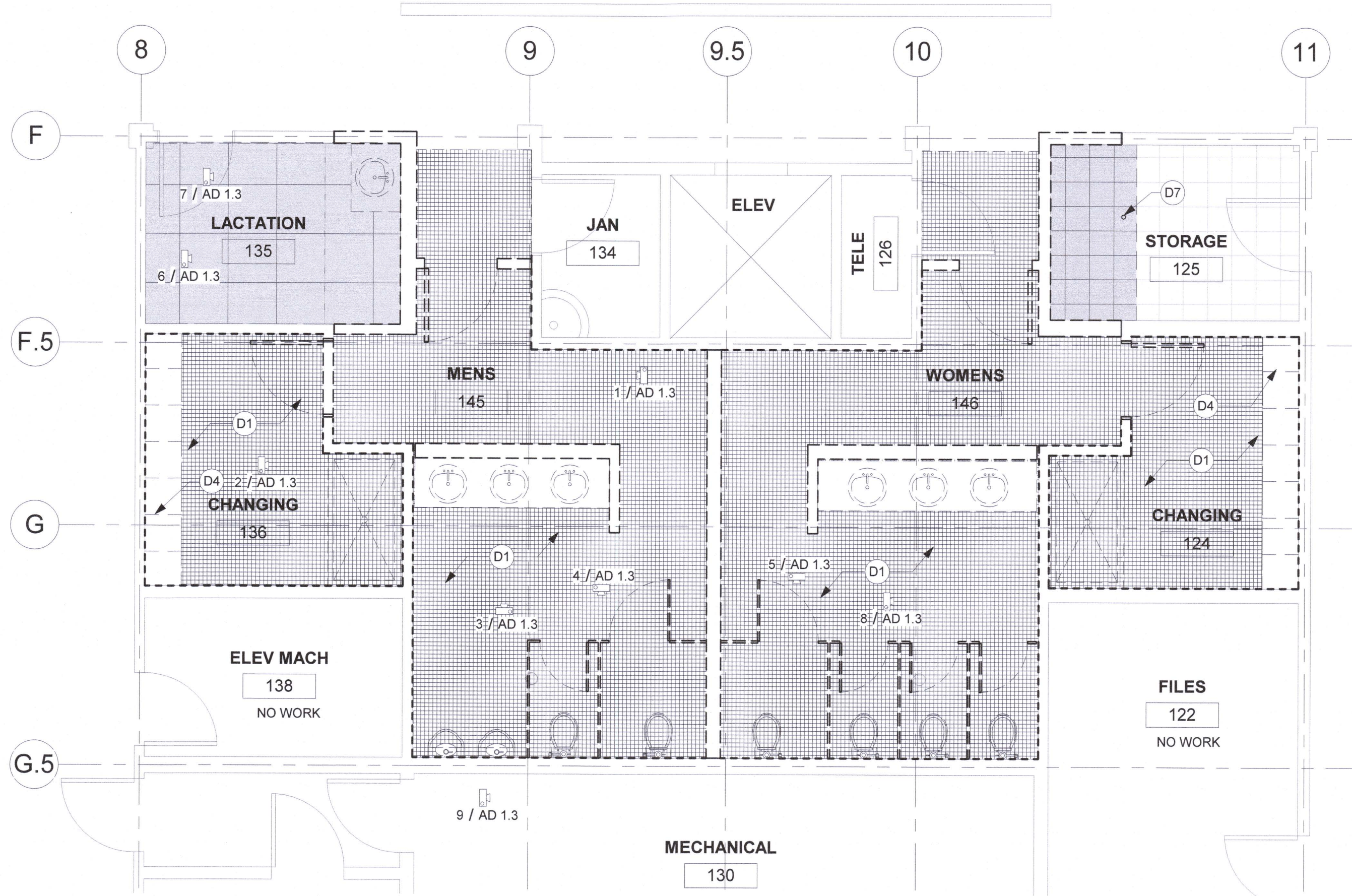




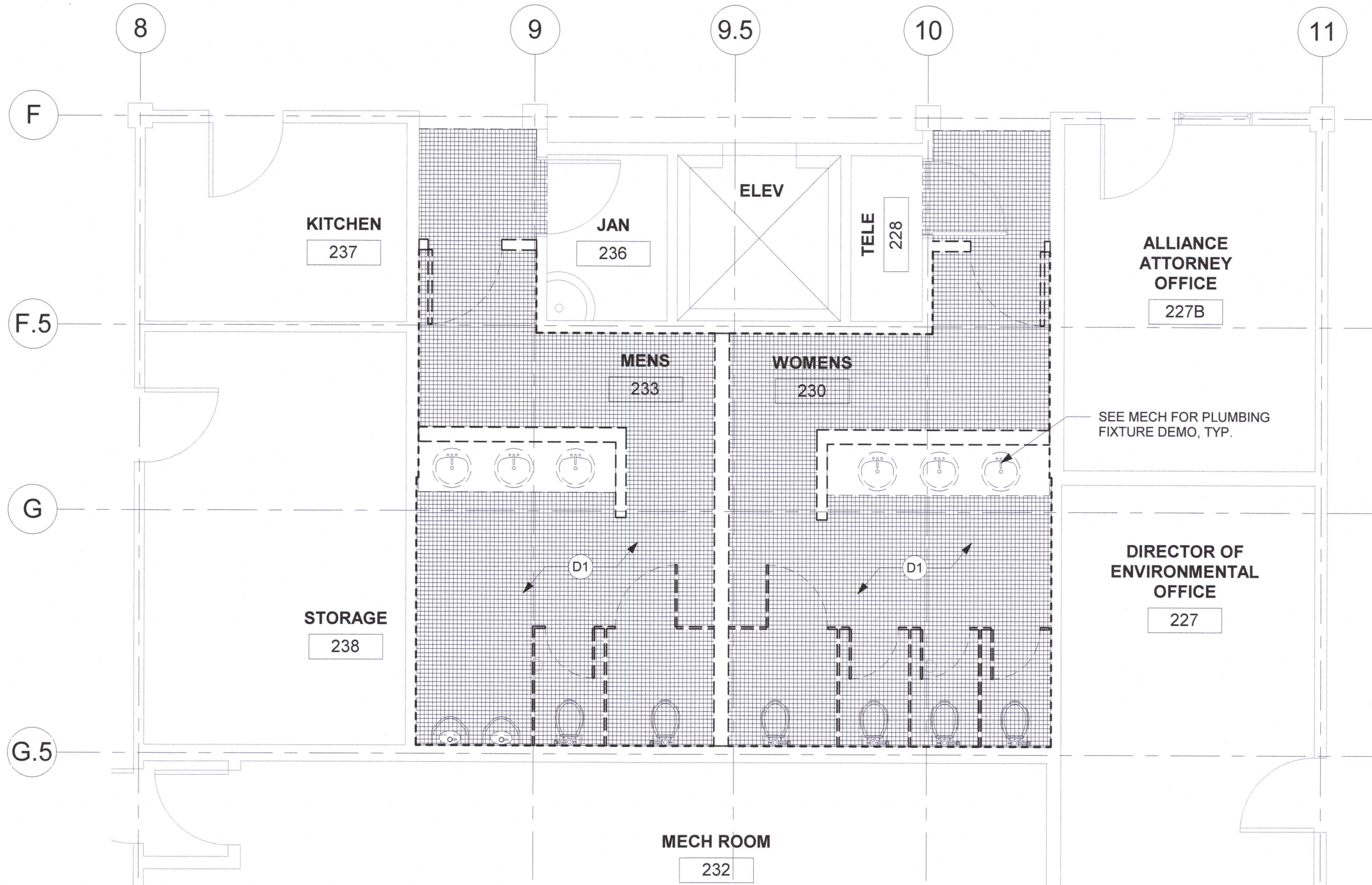
3 OVERALL BUILDING PLAN LEVEL 1
1/32" = 1'-0"



4 OVERALL BUILDING PLAN LEVEL 2
1/32" = 1'-0"



1 LEVEL 1 - DEMOLITION FLOOR PLAN
1/4" = 1'-0"



2 LEVEL 2 - DEMOLITION FLOOR PLAN
1/4" = 1'-0"

LEGEND:

- (E) CONSTRUCTION
- WALL TO BE DEMOLISHED
- TOILET PARTITION TO BE DEMOLISHED
- OTHER DEMOLISHED ITEMS
SEE MEP DRAWINGS FOR ADDITIONAL WORK
- DEMOLISH WALL TILES, BACKER BOARD, AND GWB.
(E) FRAMING TO REMAIN.
- PORCELAIN FLOOR TILE TO BE DEMOLISHED.
GRIND FLOOR IN PREPARATION FOR NEW
CEMENTITCIOUS FLOOR LEVELER. SEE MEP
DRAWINGS FOR EXTENT OF FLOOR TRENCHING.
- DEMOLISH CARPET FLOORING & WALL BASE.
GRIND FLOOR IN PREPARATION FOR NEW
CEMENTITCIOUS FLOOR LEVELER.
- DEMOLISH (E) VCT FLOORING. GRIND FLOOR IN
PREPARATION FOR NEW CEMENTITCIOUS FLOOR
LEVELER.

KEY NOTES:

- D1 DEMOLISH TILE FLOOR & WALL FINISH THROUGHOUT ROOM
- D4 DEMOLISH LOCKERS AND BASE
- D7 DEMOLISH SLAB VAPOR INSPECTION PORT AND INFILL VOID
WITH GROUT.



6666 AD1.1 2 OF 33	ADMINISTRATION BUILDING PLUMBING REPAIRS				APPROVED: <i>Shirley H. H. H.</i>	Checker JO AUG 4, 2021
	DEMOLITION FLOOR PLANS				DIRECTOR ENG. DATE NM AUG 4, 2021	
CONT/CONS: 071547	TOWNSHIP: 21	RANGE: 03	SECTION: 34	PRINTED BY: NM	PORT ADDRESS: 1 SITCUM WAY	
M. ID:	DATE-HRZ: WA83-SF	VERT:	DRAWING SCALE: AS-INDICATED	TACOMA, WA 98401		
PHASE: 100% DESIGN	PARCEL: 42					

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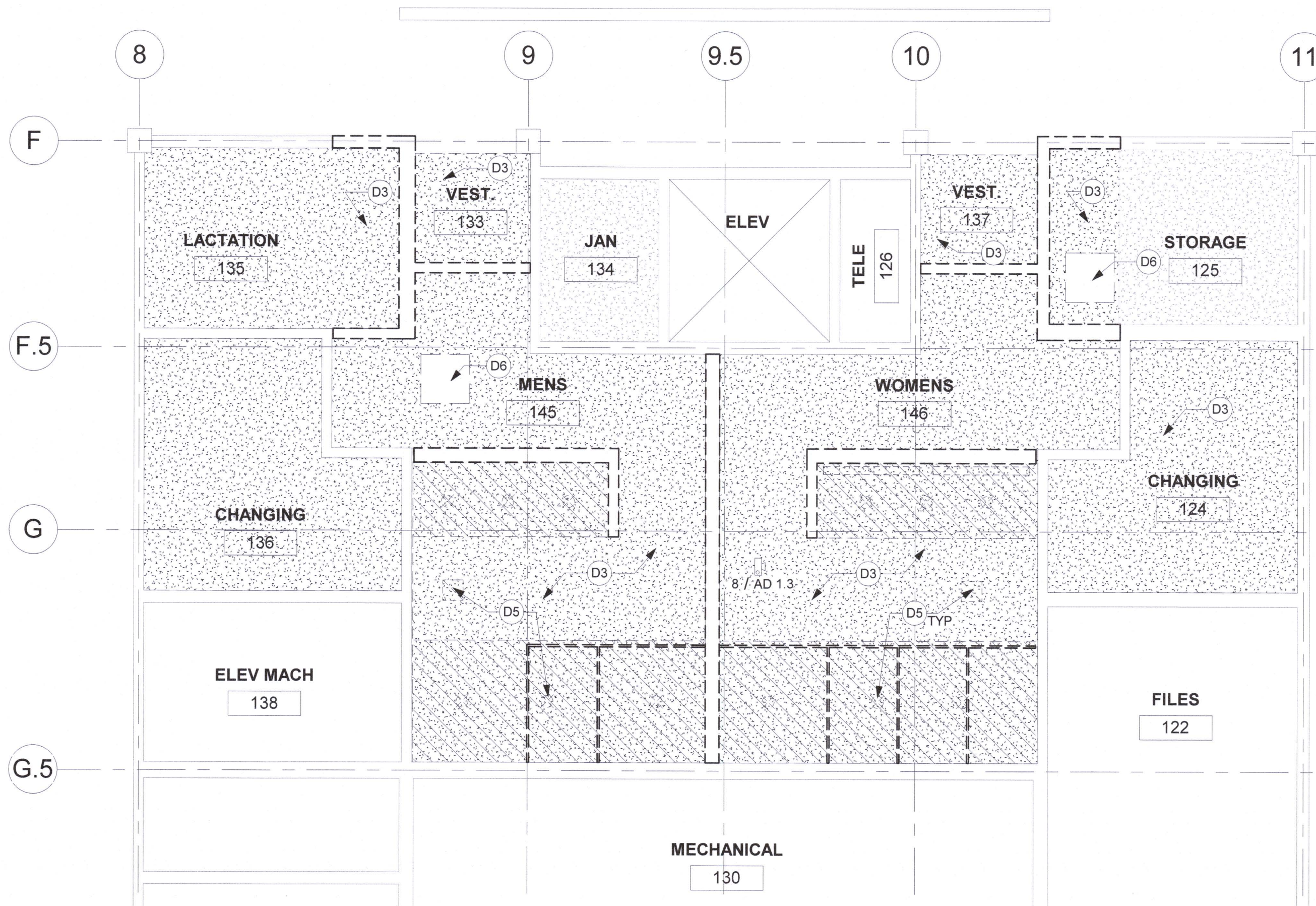
REGISTERED
ARCHITECT

Shirley H. H.

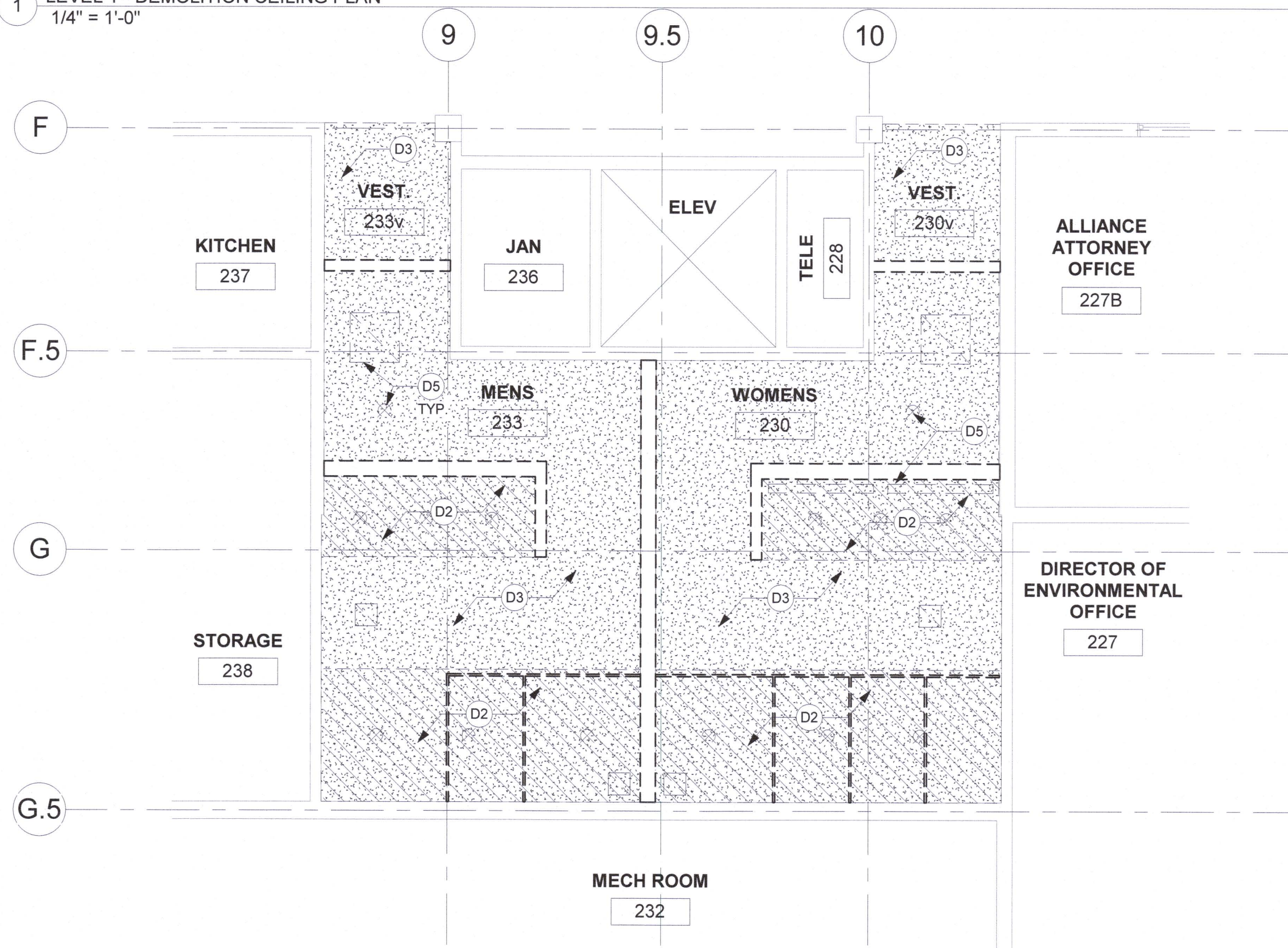
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BY: DATE:
APPR: DATE:

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1 LEVEL 1 - DEMOLITION CEILING PLAN
1/4" = 1'-0"



2 LEVEL 2 - DEMOLITION CEILING PLAN
1/4" = 1'-0"

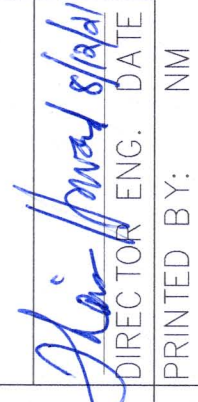
LEGEND:

- (E) CONSTRUCTION
- WALL TO BE DEMOLISHED
- CEILING MOUNTED TOILET PARTITION TO BE DEMOLISHED
- OTHER DEMOLISHED ITEMS
SEE MEP DRAWINGS FOR ADDITIONAL WORK
- DEMOLISH WALL TILES, BACKER BOARD, AND GWB. (E)
FRAMING TO REMAIN.
- SOFFIT FRAMING AND GWB FINISH TO BE DEMOLISHED
- DEMOLISH SUSPENDED GWB CEILING

KEY NOTES:

- D2 DEMOLISH SOFFIT AND FRAMING
- D3 DEMOLISH SUSPENDED GWB CEILING
- D5 DEMOLISH LIGHTS AND VENTS, SEE MECH & ELEC
- D6 DEMOLISH ACCESS PANEL



6666 AD1.2 3 OF 33	ADMINISTRATION BUILDING PLUMBING REPAIRS DEMOLITION CEILING PLANS	APPROVED:  DIRECTOR ENG. DATE NM PRINTED BY: NM	Checker JO AUG 4, 2021	 1011 SW KLIKITAT WAY, STE. 208 SEATTLE WA 98134 (206) 631-8442 P.O. BOX 1837 TACOMA, WA 98401 (206) 383-8441	
		TOWNSHIP: 21 RANGE: 03 SECTION: 34 DATE-HRZ: WA83-SF VERT: PARCEL: 42 DRAWING SCALE: AS-INDICATED	PORT ADDRESS: 1 SITCUM WAY TACOMA, WA 98401		MARK: REVISION: BY: APPR: DATE:
		THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION			

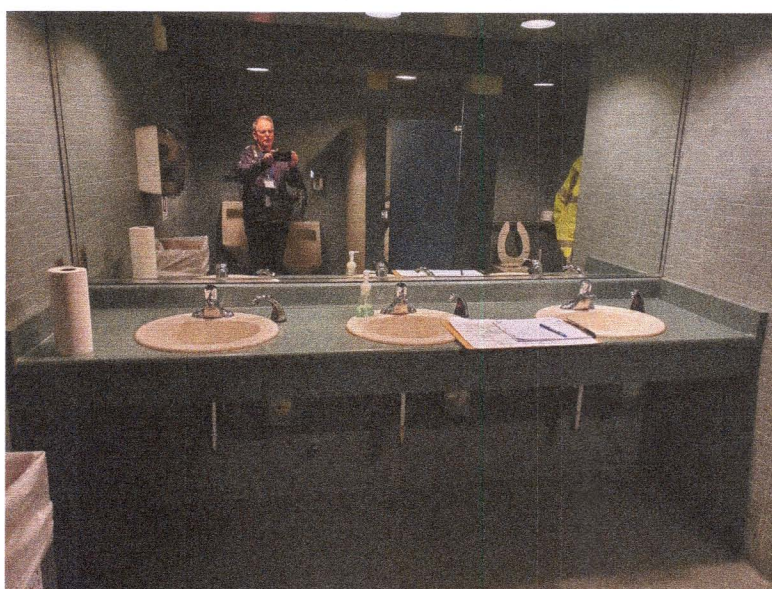


1 1ST FLOOR MENS HALL



2 1st FLOOR MENS SHOWER

DEMOLISH CURTAIN



3 1ST FLOOR MENS SINKS



4 1ST FLOOR MENS STALLS

DEMOLISH TOILET PARTITIONS, TYP.

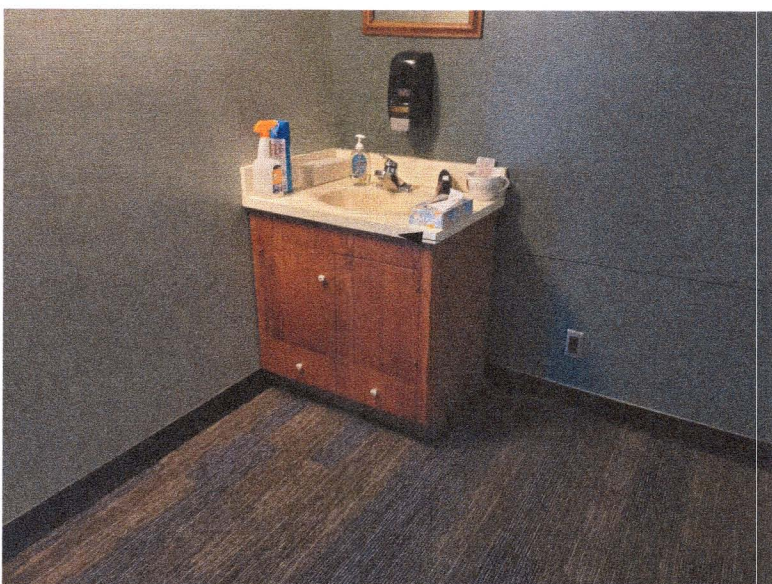


5 1ST FLOOR WOMENS PARTITIONS



6 LACTATION CEILING

DEMOLISH RADIANT HEATER, SEE MECH



7 LACTATION SINK

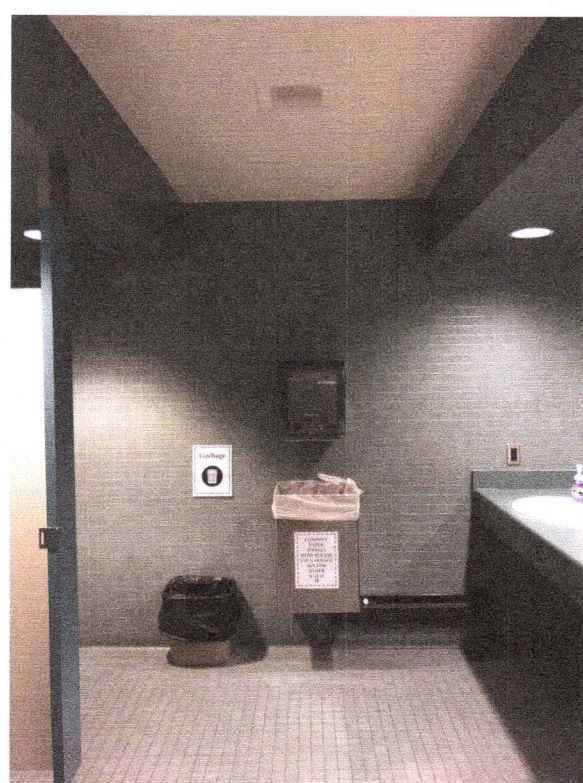
DEMOLISH LAV



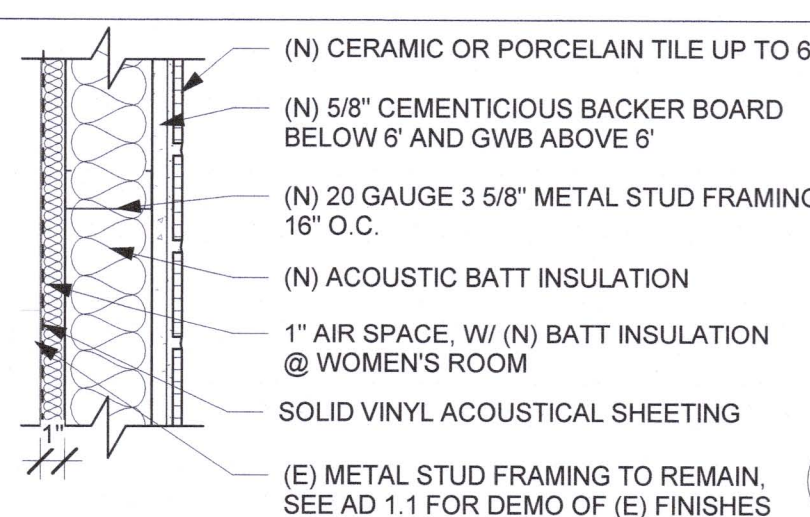
8 SOFFITT



9 MECHANICAL ROOM



10 TYPICAL RESTROOM



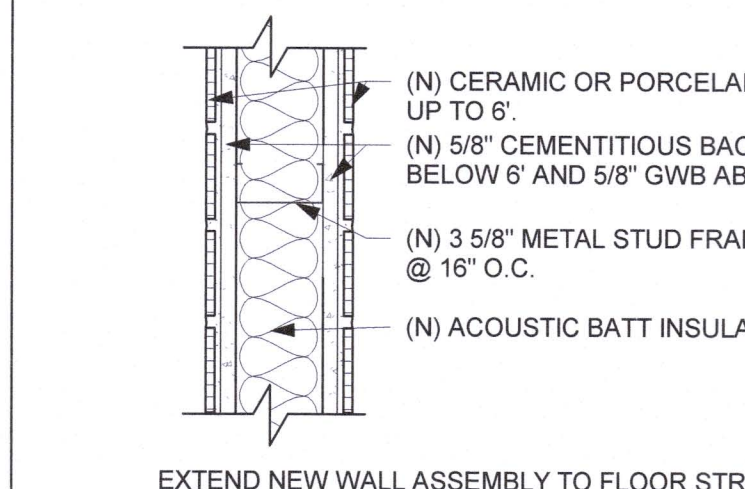
EXTEND NEW WALL ASSEMBLY TO FLOOR STRUCTURE ABOVE



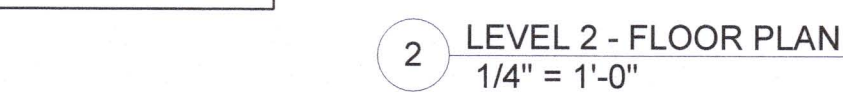
W3 WALL TYPE

W4 WALL TYPE

W5 WALL TYPE



W6 WALL TYPE



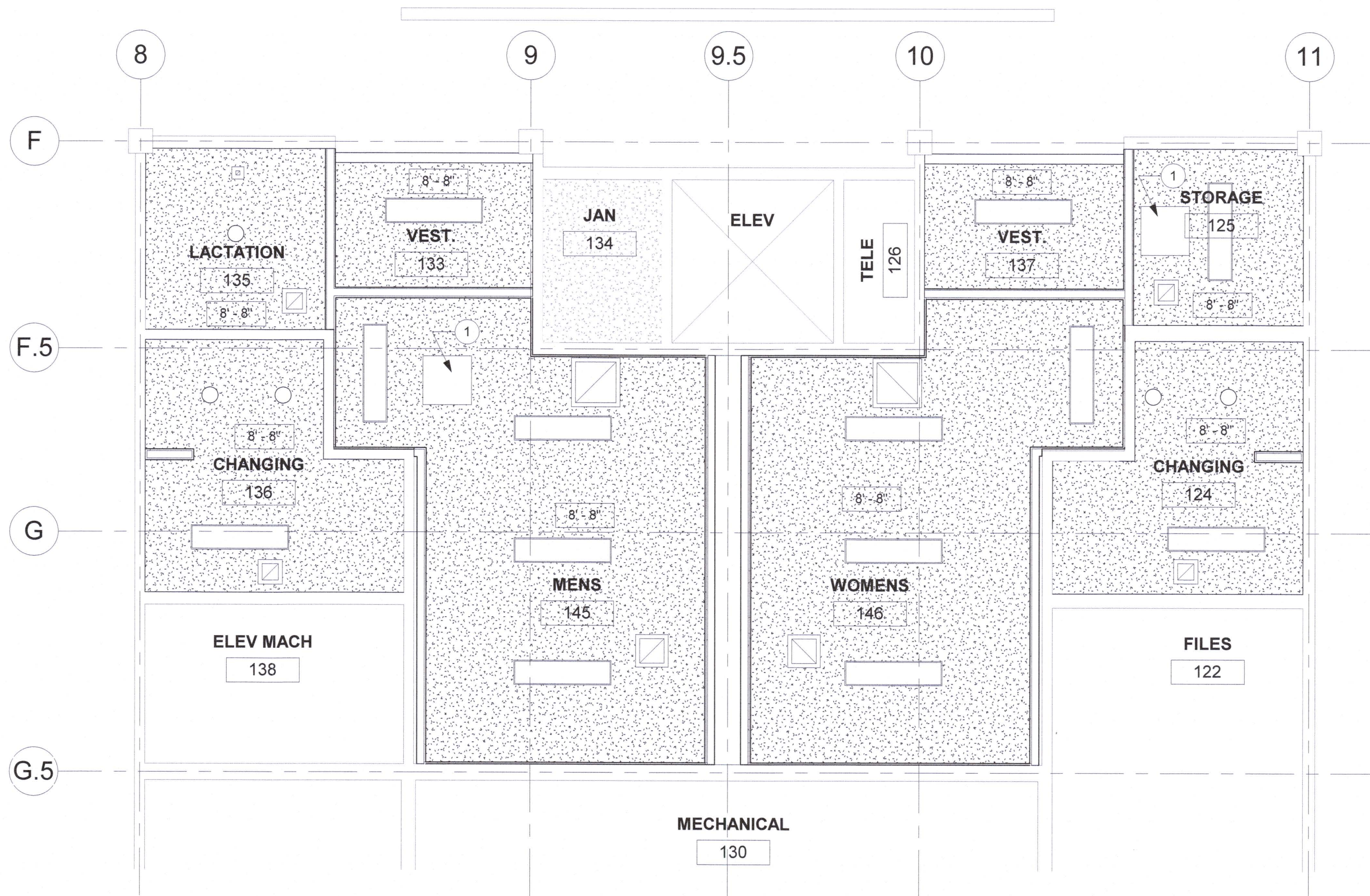
- | | |
|---|--|
|  | (E) CONSTRUCTION |
|  | NEW CONSTRUCTION |
|  | CERAMIC TILE AND TILE BACKER BOARD
ON (E) FRAMING |
|  | SKIM COAT (E) GWB WALL AND INSTALL FRP
ON LOWER 4' OF WALLS |
|  | STAINLESS STEEL CORNER GUARD |

1. DIMENSIONS FROM NEW WALLS ARE FROM CENTER OF STUDS U.N.O.
2. DIMENSIONS FROM EXISTING WALLS ARE FROM FACE OF EXISTING FINISH.
3. CONTRACTOR TO X-RAY ALL EXISTING CONCRETE SLABS PRIOR TO SAWCUTTING OR CORE DRILLING.
4. NEW BACKER BOARD REQUIRED AT ALL WALLS TO RECEIVE CERAMIC AND PORCELAIN TILE, NEW AND EXISTING WALLS.
5. PROVIDE SELF LEVELING CEMENTITIOUS UNDERLAYMENT AT ALL FLOOR AREAS.
6. SEE MEP DRAWINGS FOR AREAS OF CONCRETE FLOOR TRENCHING. PROVIDE BACKFILL FLUSH WITH (E) CONCRETE AND COVER WITH SELF LEVELING CEMENTITIOUS UNDERLAYMENT. SEE SHEET M2.1 FOR SAWCUTTING, TRENCHING, AND BACKFILL FOR NEW PIPING.
7. PROVIDE CEMENTITIOUS FLOOR LEVELING UNDERLAYMENT AT ALL AREAS OF NEW FLOOR.

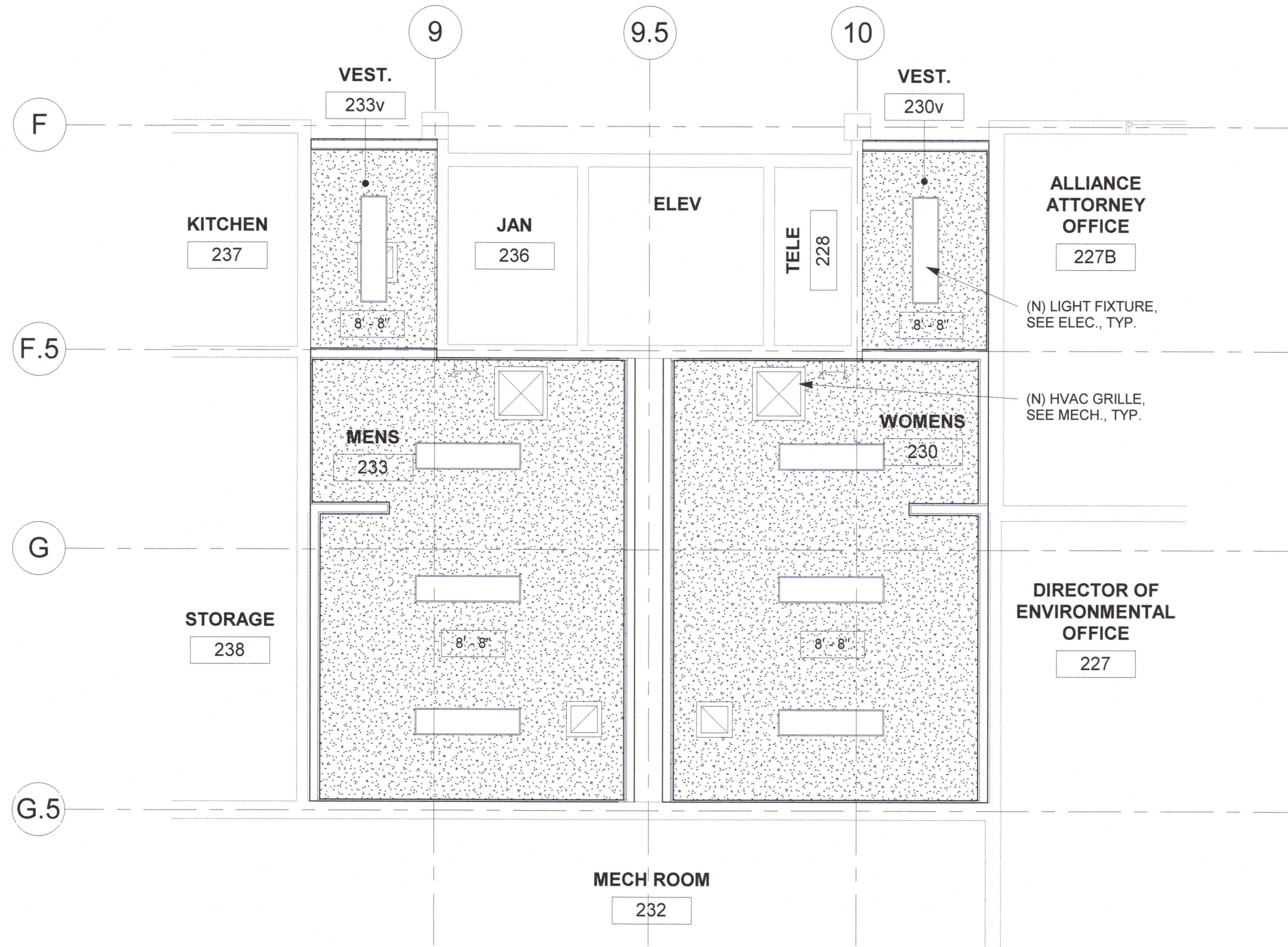
- ① SKIM COAT ALL WALLS IN ROOMS 134, 135, AND 236
- ② SKIM COAT EXISTING WALLS
- ③ NEW SHOWER CURTAIN ON STAINLESS STEEL ROD
- ④ RESET HEIGHT OF FLOOR DRAIN TO ACCOMMODATE NEW FLOOR FINISH
- ⑤ INSTALL NEW GWB FINISH TO (E) FRAMING
- ⑥ FREESTANDING WASTE RECEPTACLE



6666 A1.1 5 OF 33	ADMINISTRATION BUILDING PLUMBING REPAIRS				APPROVED:		Checker J0 AUG 4, 2021		 OAI PS Architecture & Planning 1011 SW KLUCKITAT WAY, STE. 208 SEATTLE, WA 98134 (206) 631-6442	MARK: REVISION:	B Y:	DATE:
	FLOOR PLANS				DIRECTOR ENG. DATE NM AUG 4, 2021		02/73 REGISTERED ARCHITECT JERRY D. OSBORN STATE OF WASHINGTON					
	TOWNSHIP: 21 RANGE: 03 SECTION: 34				PRINTED BY: NM							
	M. ID: DAT-HRZ: WA83-SF VERT:				PORT ADDRESS: 1 SITCOM WAY							
	PHASE: 100% DESIGN				DRAWING SCALE: AS-INDICATED							
PARCEL: 42				TACOMA, WA 98401								



1 LEVEL 1 - CEILING PLAN
1/4" = 1'-0"



2 LEVEL 2 - CEILING PLAN
1/4" = 1'-0"

LEGEND:

- (E) CONSTRUCTION
- NEW CONSTRUCTION
- NEW SUSPENDED GWB CEILING
- X'-X" HEIGHT OF NEW CEILING ABOVE FINISH FLOOR

KEY NOTES:

- 1 INSTALL NEW 24" ACCESS PANEL



6666 A1.2 6 OF 33	ADMINISTRATION BUILDING PLUMBING REPAIRS		APPROVED: <i>[Signature]</i> DIRECTOR FOR ENG. DATE: 8/2/21 PRINTED BY: NM		Checker JO AUG 4, 2021
	CEILING PLANS		TOWNSHIP: 21 RANGE: 03 SECTION: 34 DATE-HRZ: WA83-SF VERT: PARCEL: 42 DRAWING SCALE: AS-INDICATED		DATE: 8/2/21
CON/CONS: 071547		M. ID: 071547		BY: APPR:	
PHASE: 100% DESIGN		PARCEL: 42		MARK: REVISION:	

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REGISTERED ARCHITECT
Amy Olsen
STATE OF WASHINGTON
6273

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MATERIALS & FINISHES:

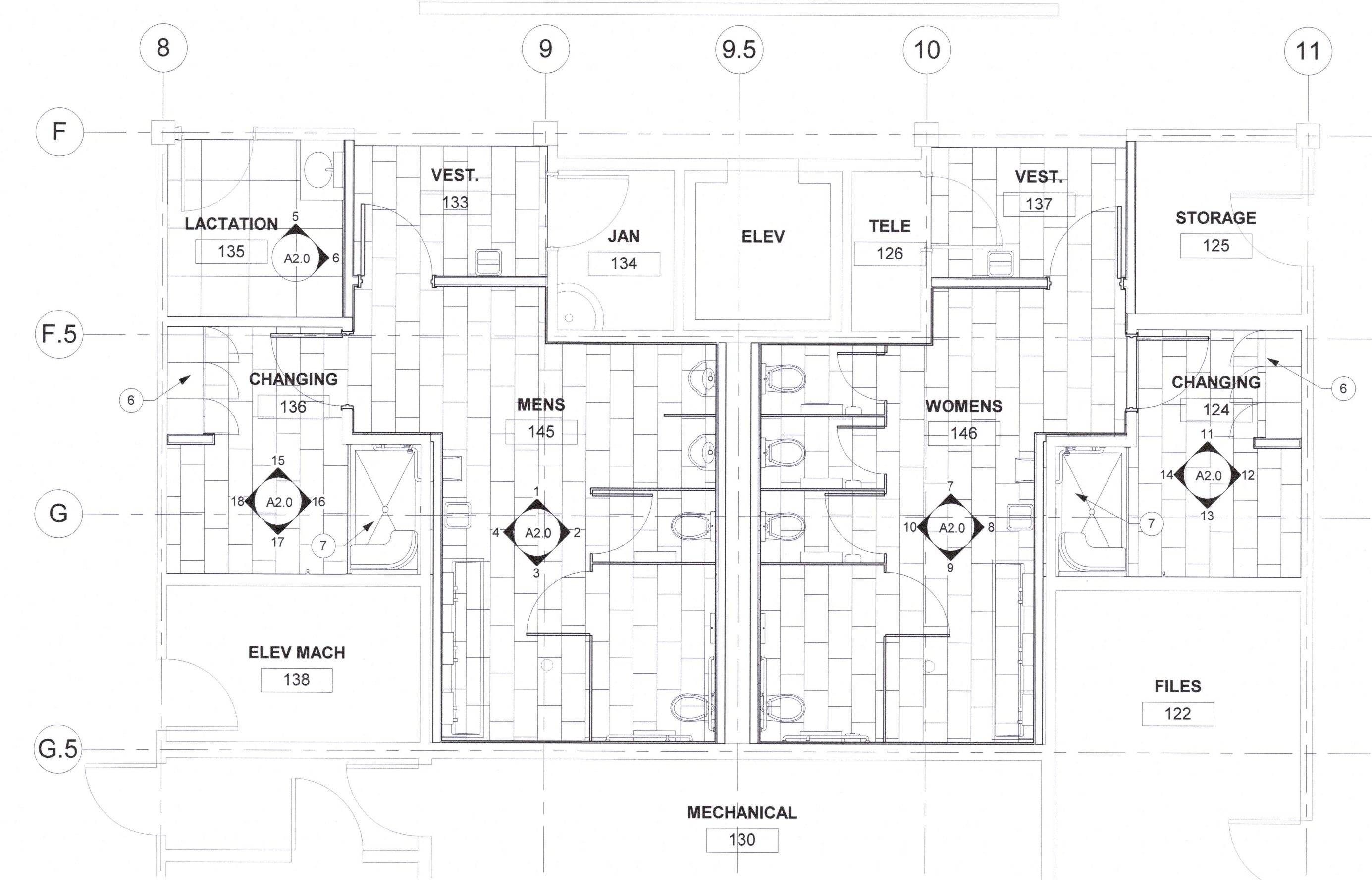
MARK	MATERIAL	STYLE	COLOR	COMMENTS
FRP	FIBERGLASS REINFORCED PLASTIC CARPET TILE	SMOOTH	WHITE	
CPT-1		TBD	TBD	
PT-1	PAINT	EGGSHELL	AF-5 FROSTINE	
PT-2	PAINT	UNKNOWN	TO MATCH (E) COLOR IN HALLWAY	
PT-3	PAINT	EGGSHELL	2045-40 BAHAMA GREEN	
RWB-1	RESILIENT WALL BASE	COVE 6"	TBD	PROVIDE PREMOLDED CORNERS
T-1	PORCELAIN FLOOR TILE	EXHIBITION	EX04 DARK GREY MATTE	GROUT COLOR TO BE BLACK
T-2	PORCELAIN FLOOR TILE	EXHIBITION	EX01 WHITE MATTE EX02 GREY MATTE EX04 DARK GREY MATTE	GROUT COLOR TO BE DARK GREY. COLORS TO BE 1/3 MIXED.

NOTE: WHERE T-1 IS THE FLOOR FINISH, THIS FINISH WILL EXTEND UP THE WALL ONE 6" COURSE, SEE DETAILS.

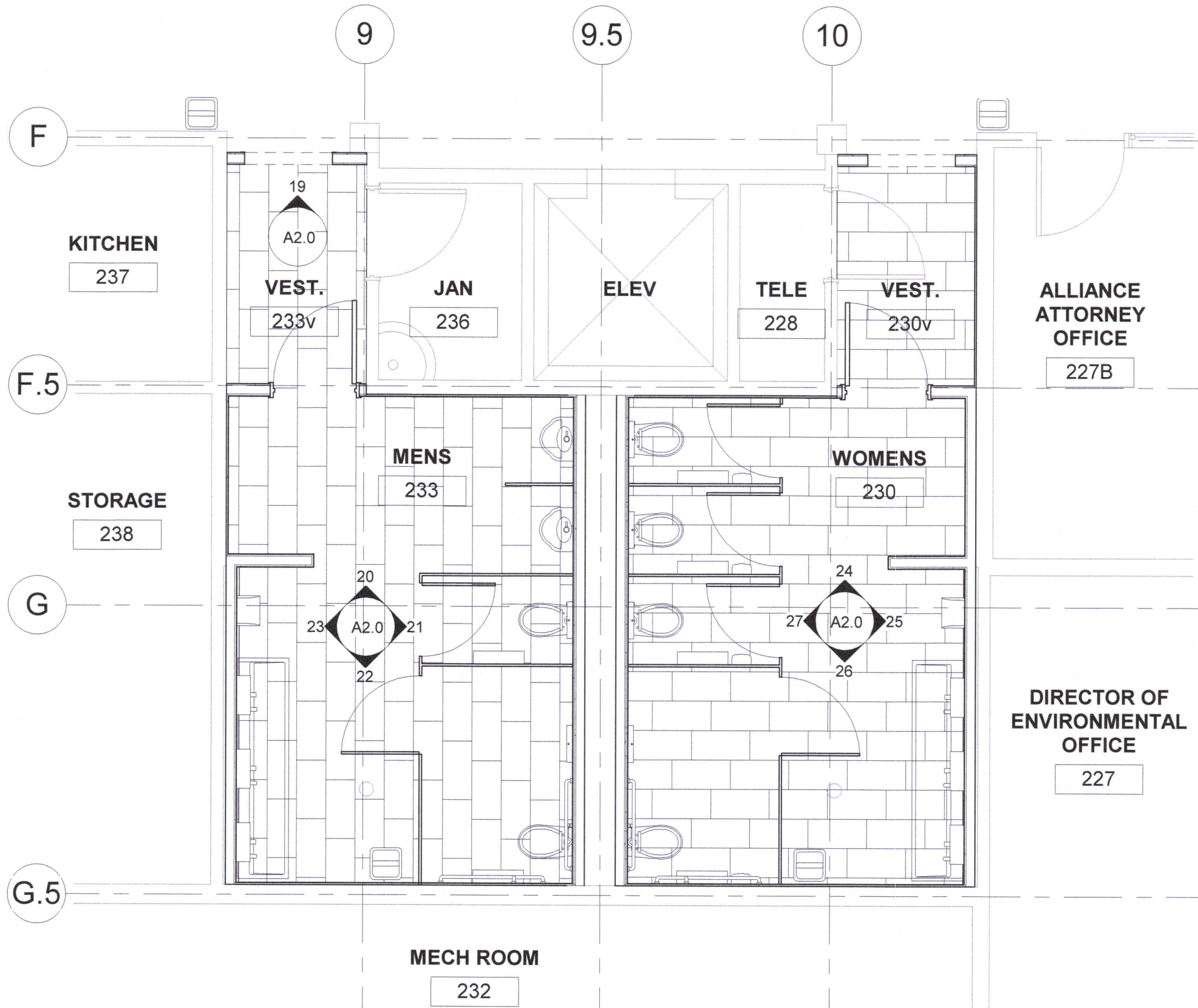
ROOM FINISH SCHEDULE						
ROOM NUMBER	ROOM NAME	FLOOR FINISH	WALL BASE	WALL FINISH	CEILING FINISH	COMMENTS
124	CHANGING	T-1	T-2	T-2 TO 6', PT-3 ABOVE	PT-1	
125	STORAGE		RWB-1			
133	VEST.	T-1	RWB-1	PT-2	PT-1	
134	JAN	(E)	RWB-1	FRP TO 4', PT-1 ABOVE	PT-1	
135	LACTATION	CPT-1	RWB-1	PT-3	PT-1	
136	CHANGING	T-1	T-2	T-2 TO 6', PT-3 ABOVE	PT-1	
137	VEST.	T-1	RWB-1	PT-2	PT-1	
145	MENS	T-1	T-2	T-2 TO 6', PT-3 ABOVE	PT-1	
146	WOMENS	T-1	T-2	T-2 TO 6', PT-3 ABOVE	PT-1	
230	WOMENS	T-1	T-2	T-2 TO 6', PT-3 ABOVE	PT-1	
230v	VEST.	T-1	RWB-1	PT-2	PT-1	
233	MENS	T-1	T-2	T-2 TO 6', PT-3 ABOVE	PT-1	
233v	VEST.	T-1	RWB-1	PT-2	PT-1	
236	JAN	(E)	RWB-1	FRP TO 4', PT-1 ABOVE	PT-1	

KEY NOTES:

- 6
- BUILT IN LOCKERS
- 7
- PREFABRICATED ADA COMPLIANT SHOWER STALL



1 LEVEL 1 - FLOOR FINISH PLAN
1/4" = 1'-0"



2 LEVEL 2 - FLOOR FINISH PLAN
1/4" = 1'-0"

6666

A1.3

7 OF 33

CONT/CONS: 071547

M. ID:

PHASE: 100% DESIGN

ADMINISTRATION BUILDING PLUMBING REPAIRS

FINISH PLANS

APPROVED:

Director

Director

Director

TOWNSHIP: 21

DAT-HRZ: WA83-SF

PARCEL: 42

SECTION: 34

RANGE: 03

VERT:

DATE: 08/24/21

PRINTED BY: NM

DRAWING SCALE: AS-INDICATED

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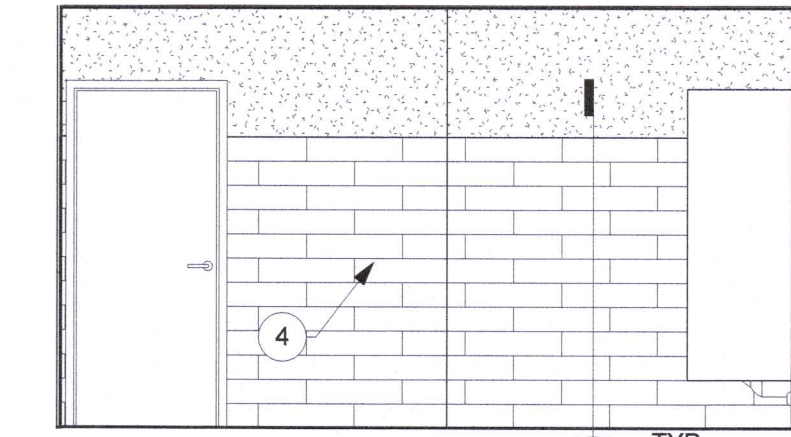
REGISTERED ARCHITECT

Ken Olson

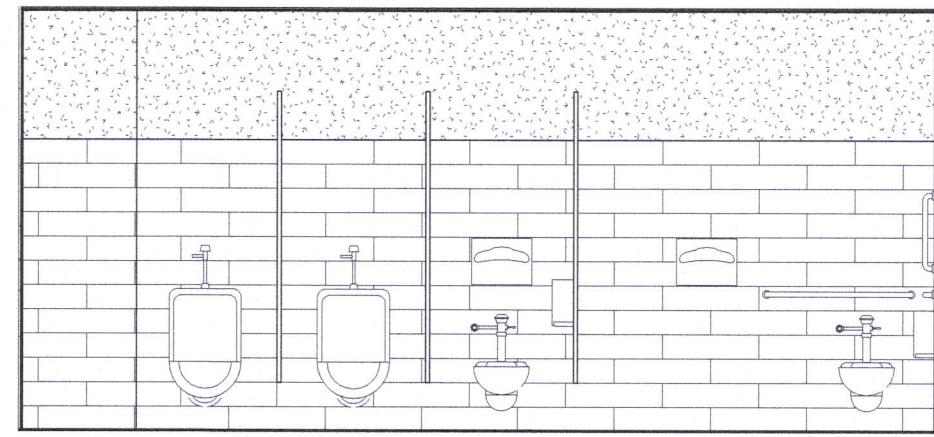
02/3

STATE OF WASHINGTON

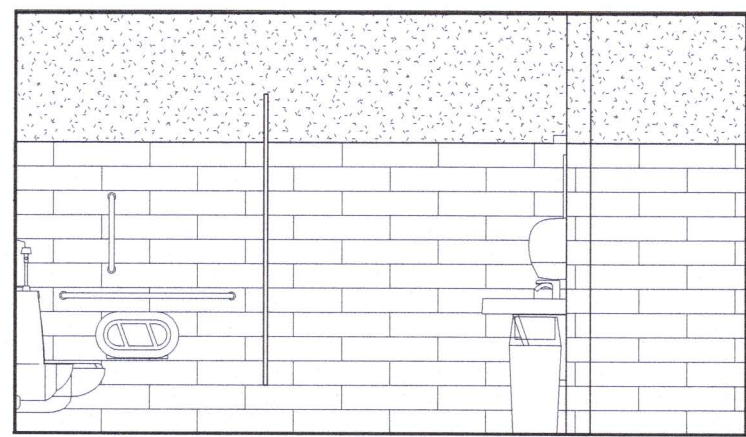
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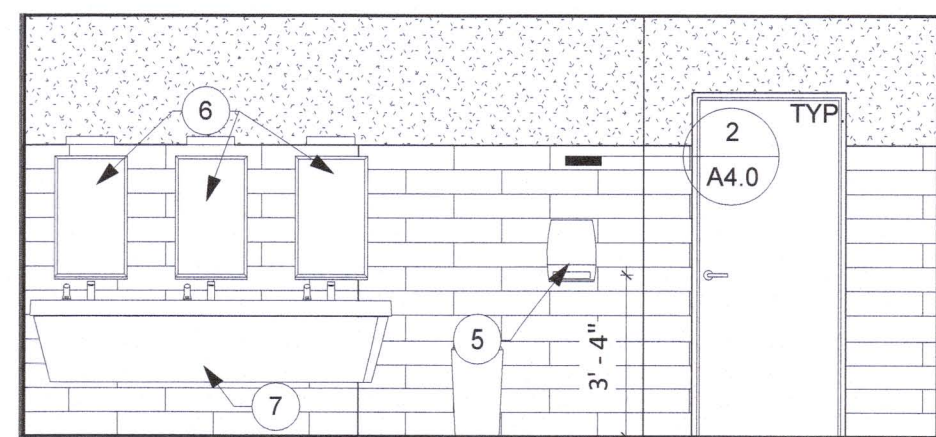
1 MENS 145 NORTH
1/4" = 1'-0"



2 MENS 145 EAST
1/4" = 1'-0"



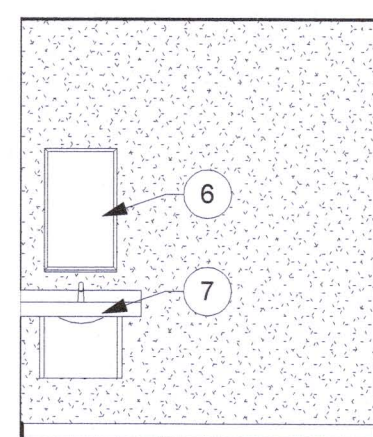
3 MENS 145 SOUTH
1/4" = 1'-0"



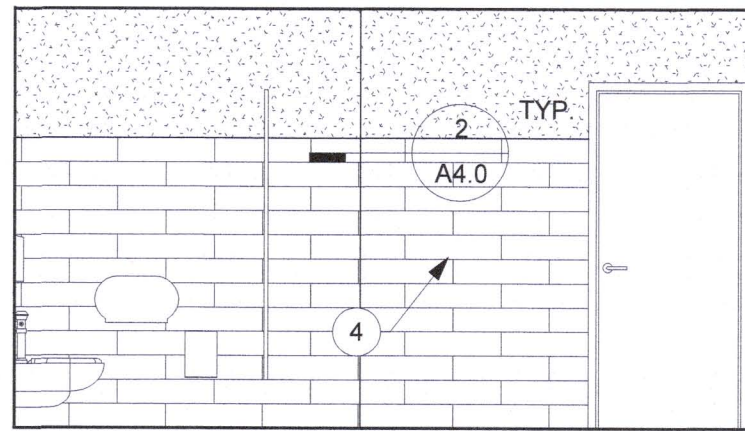
4 MENS 145 WEST
1/4" = 1'-0"



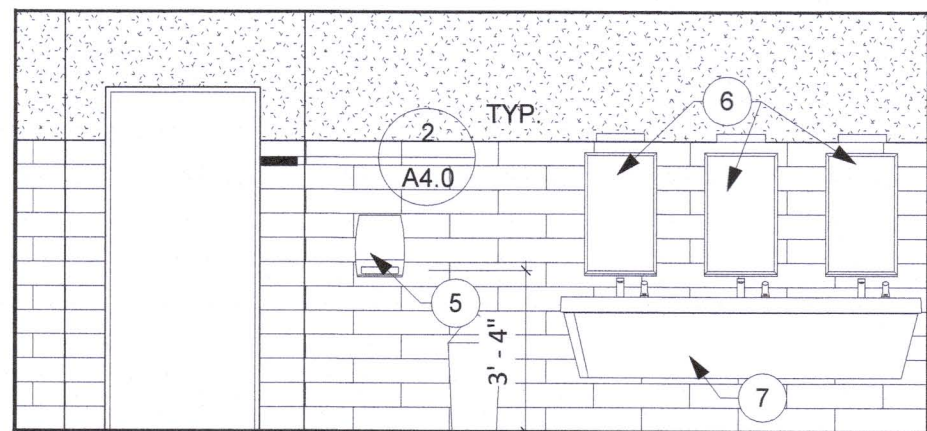
5 LACTATION 135 NORTH
1/4" = 1'-0"



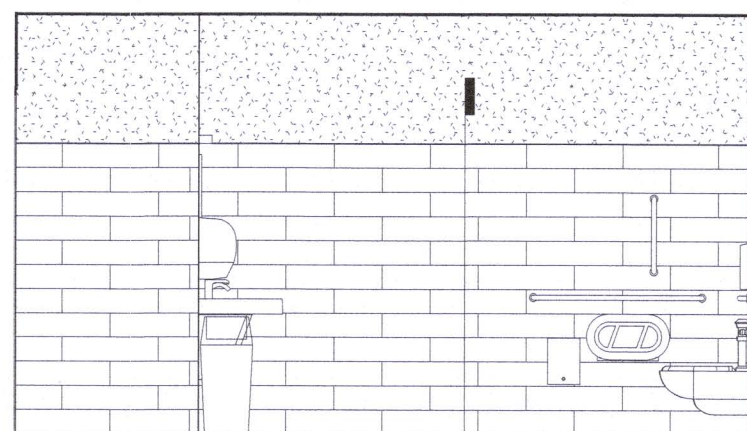
6 LACTATION 135 EAST
1/4" = 1'-0"



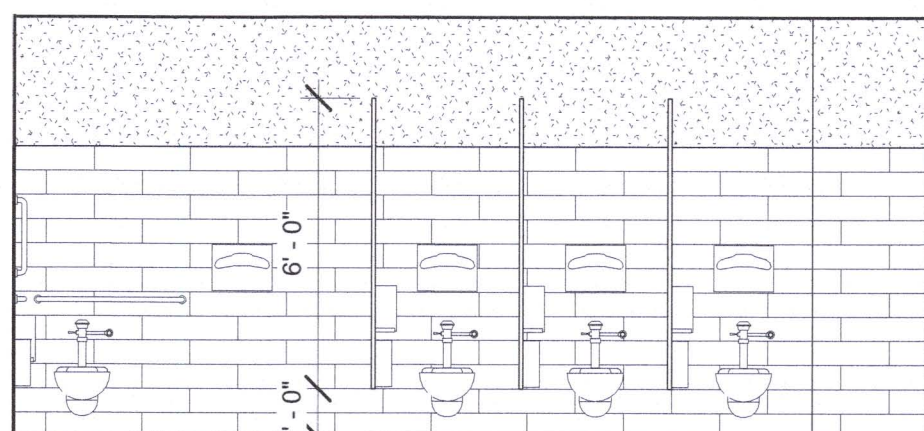
7 WOMENS 146 NORTH
1/4" = 1'-0"



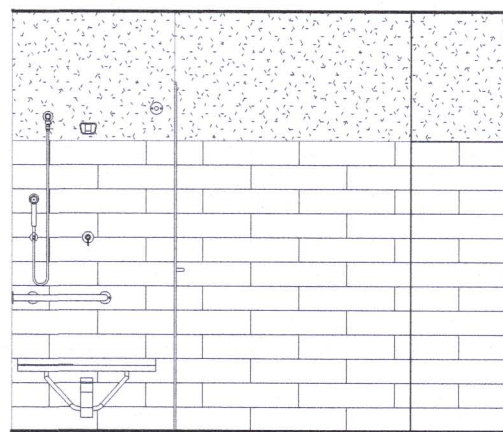
8 WOMENS 146 EAST
1/4" = 1'-0"



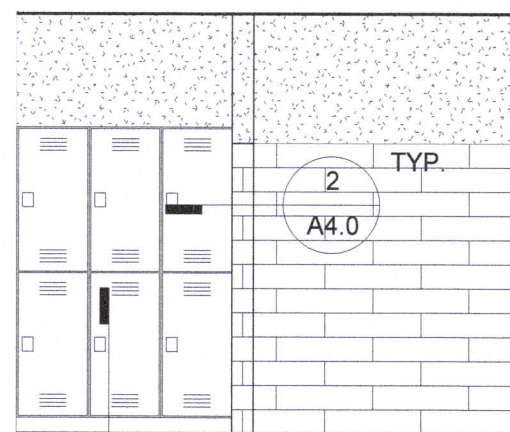
9 WOMENS 146 SOUTH
1/4" = 1'-0"



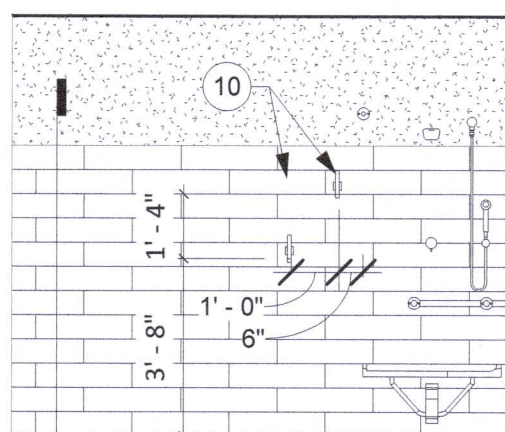
10 WOMENS 146 WEST
1/4" = 1'-0"



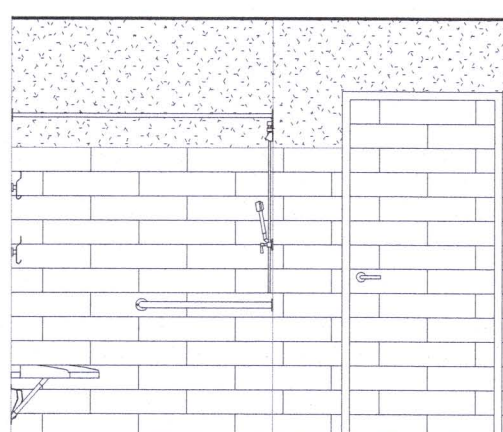
11 CHANGING 124 NORTH
1/4" = 1'-0"



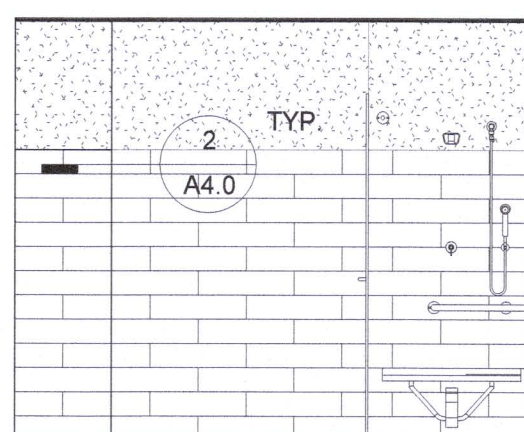
12 CHANGING 124 EAST
1/4" = 1'-0"



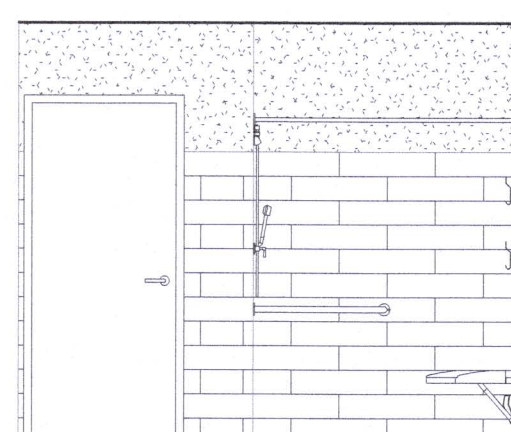
13 CHANGING 124 SOUTH
1/4" = 1'-0"



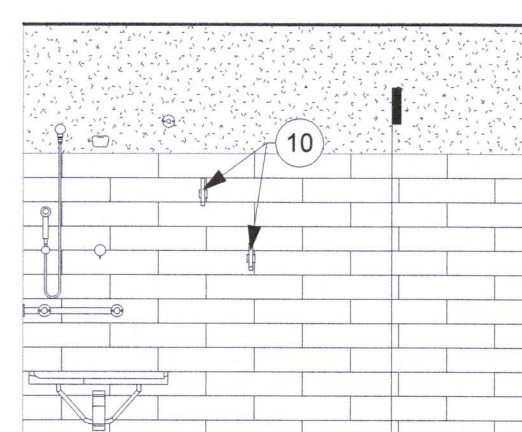
14 CHANGING 124 WEST
1/4" = 1'-0"



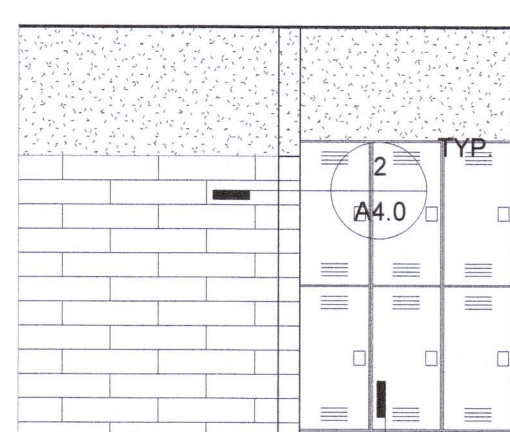
15 CHANGING 136 NORTH
1/4" = 1'-0"



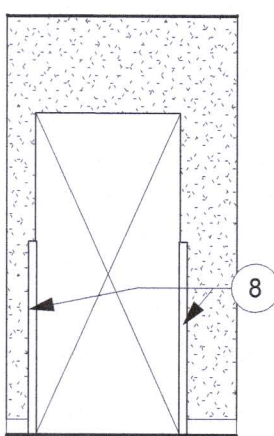
16 CHANGING 136 EAST
1/4" = 1'-0"



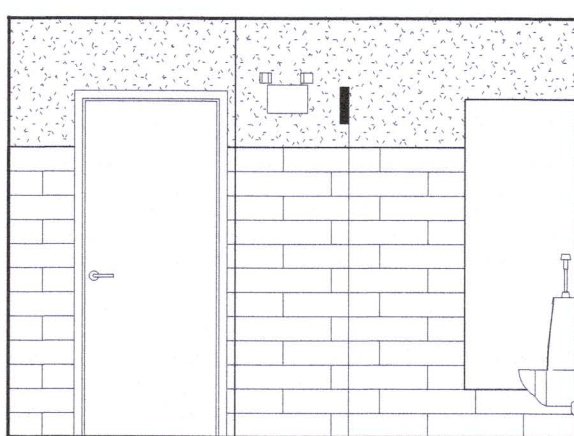
17 CHANGING 136 SOUTH
1/4" = 1'-0"



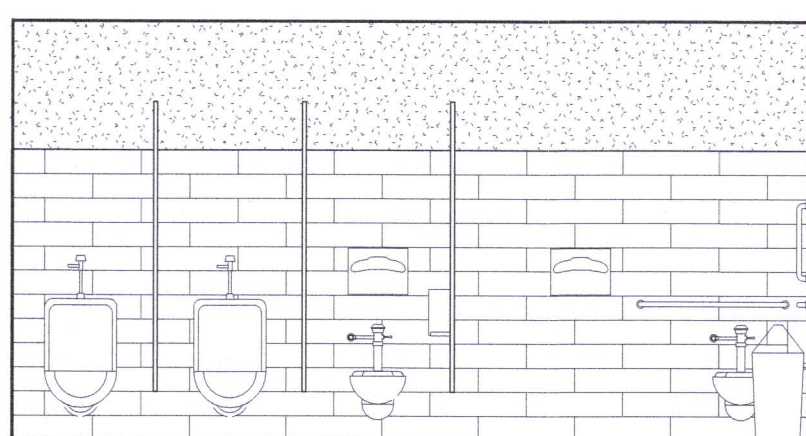
18 CHANGING 136 WEST
1/4" = 1'-0"



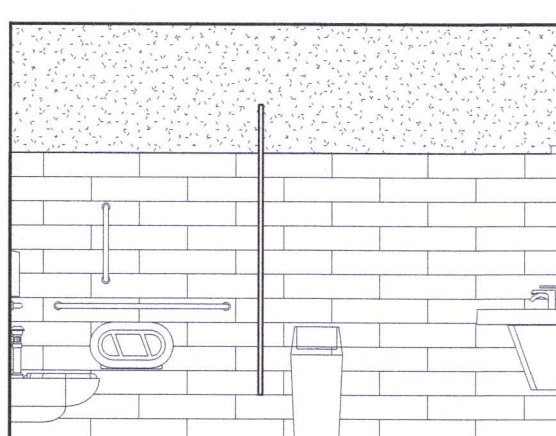
19 VESTIBULE 233V NORTH
1/4" = 1'-0"



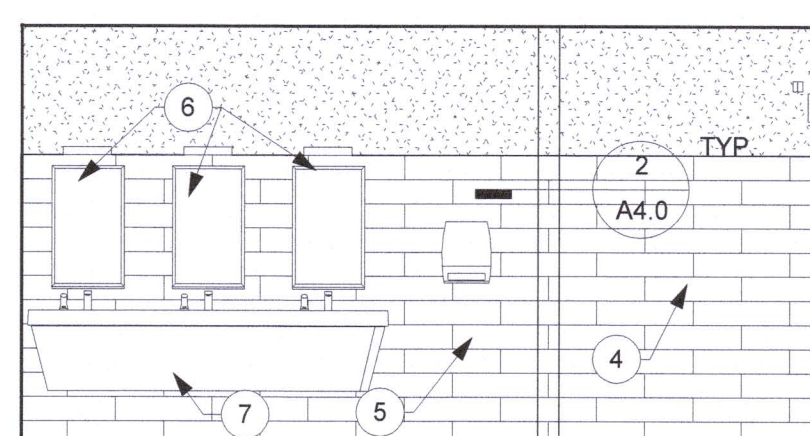
20 MENS 233 NORTH
1/4" = 1'-0"



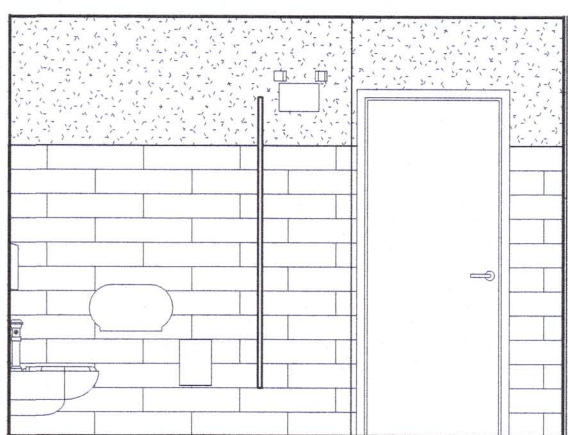
21 MENS 233 EAST
1/4" = 1'-0"



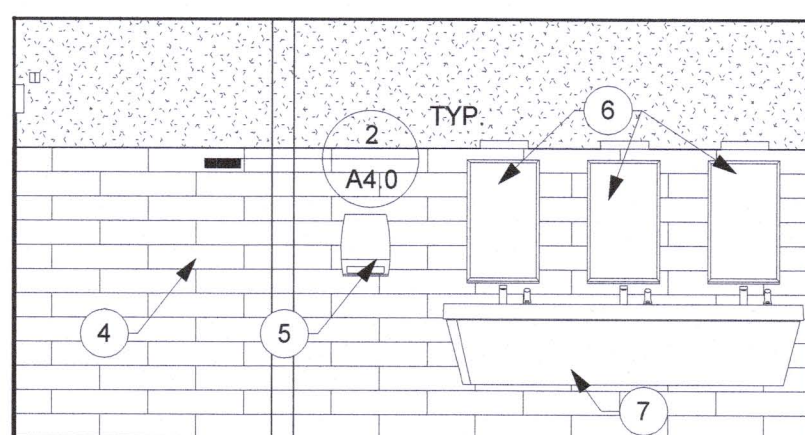
22 MENS 233 SOUTH
1/4" = 1'-0"



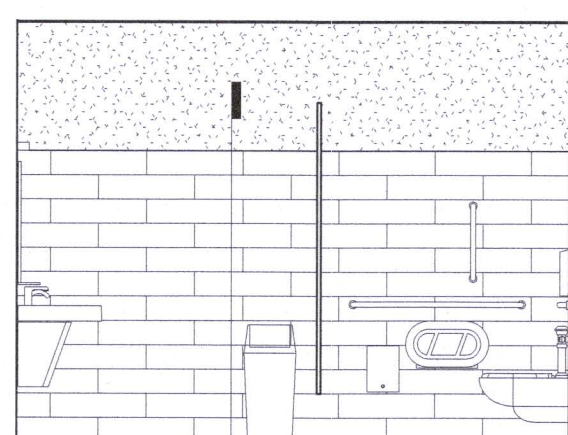
23 MENS 233 WEST
1/4" = 1'-0"



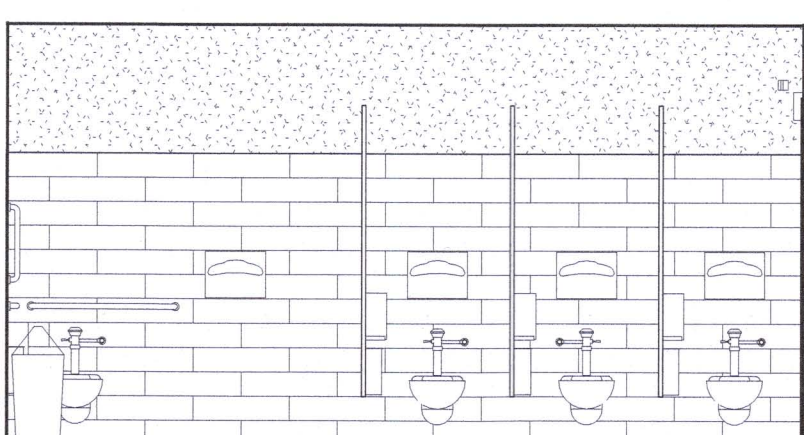
24 WOMENS 230 NORTH
1/4" = 1'-0"



25 WOMENS 230 EAST
1/4" = 1'-0"



26 WOMENS 230 SOUTH
1/4" = 1'-0"



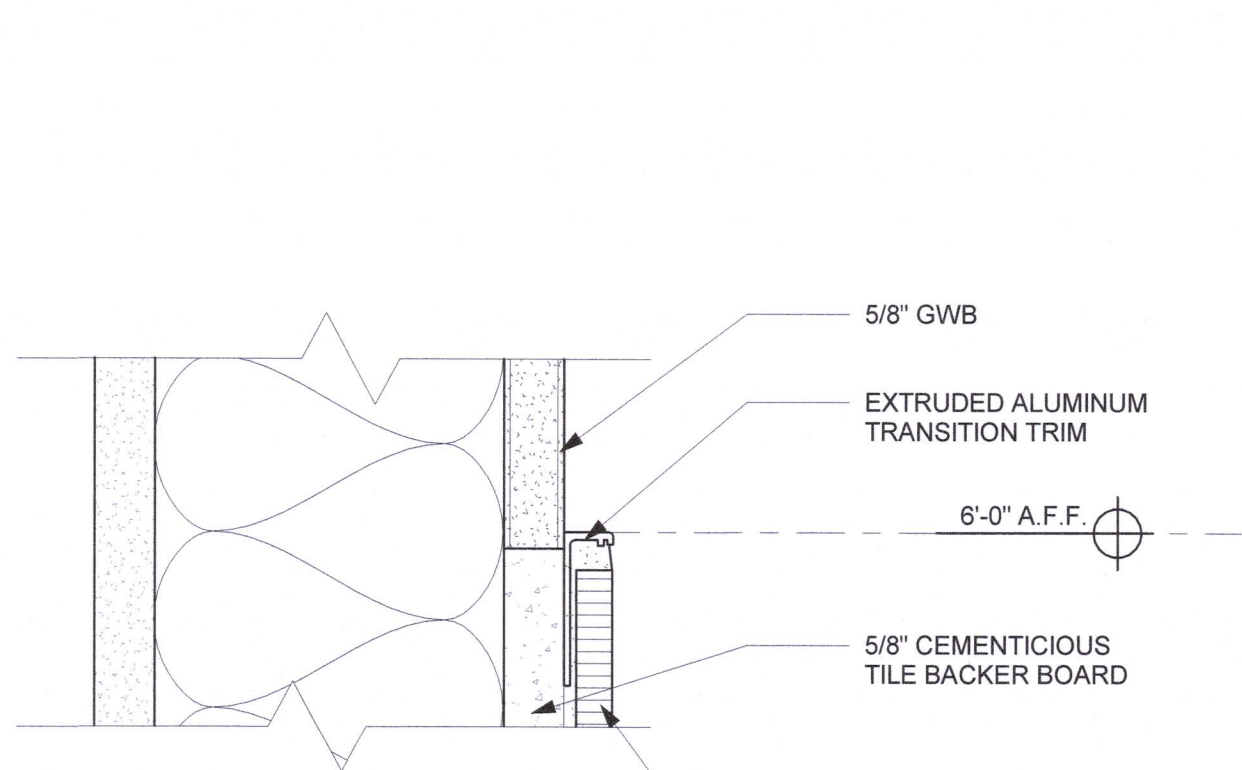
27 WOMENS 230 WEST
1/4" = 1'-0"

KEY NOTES:

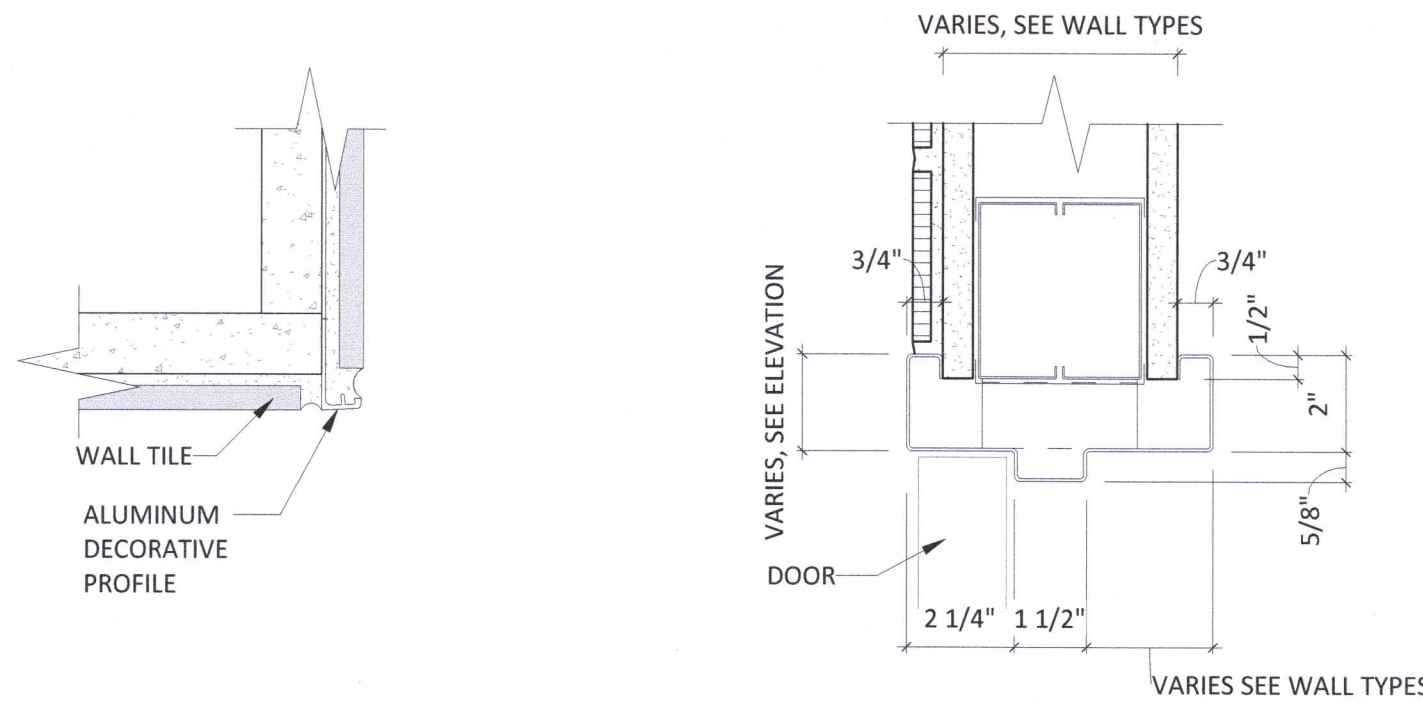
- NEW SHOWER CURTAIN ON STAINLESS STEEL ROD
- BABY CHANGING STATION
- PAPER TOWEL DISPENSER
- MIRROR
- PREFABRICATED WALL HUNG SINK & COUNTER ASSEMBLY
- 2"x2"x48" STAINLESS STEEL CORNER GUARD, ALL FOUR CORNERS OF OPENINGS
- NOT IN USE
- ROBE HOOK

6666 A2.0 8 OF 33	ADMINISTRATION BUILDING PLUMBING REPAIRS				APPROVED: <i>Oliver Howard 8/12/21</i>		Checker JO AUG 4, 2021
	INTERIOR ELEVATIONS				DIRECTOR DATE NM AUG 4, 2021		
	TOWNSHIP: 21 RANGE: 03 SECTION: 34				PRINTED BY: NM		
	M. ID: DAT-HRZ: WA83-SF PARCEL: 42				PORT ADDRESS: 1 SITCUM WAY TACOMA, WA 98401		
PHASE: 100% DESIGN				DRAWING SCALE: AS-INDICATED		P.O. BOX 1837 TACOMA, WA 98401 (253)353-8841 MARK: REVISION: BY: APPR: DATE:	

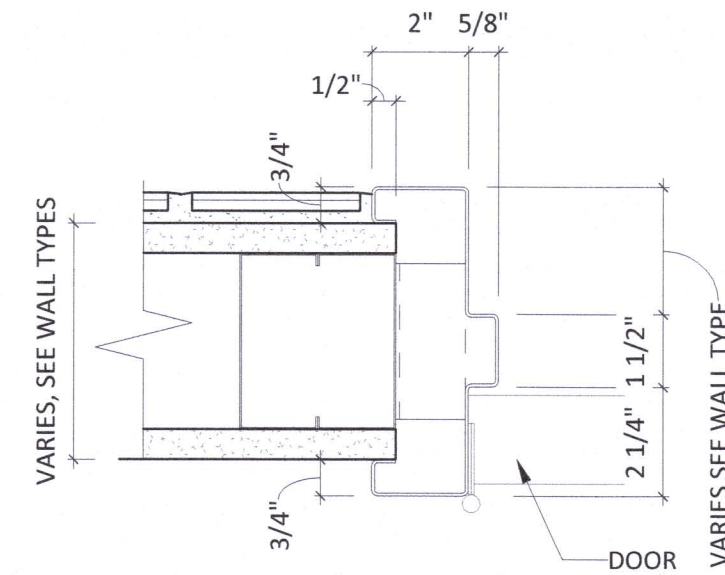
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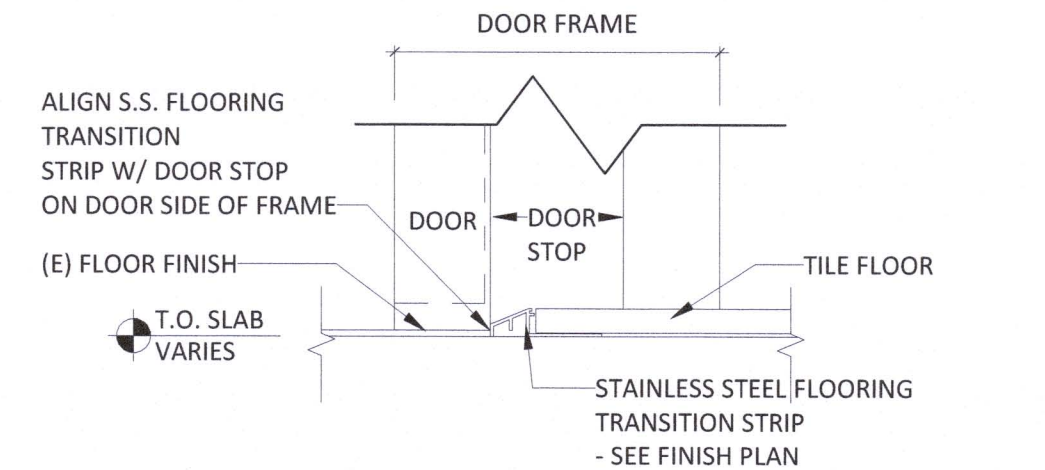
2 TILE CORNER
6" = 1'-0"



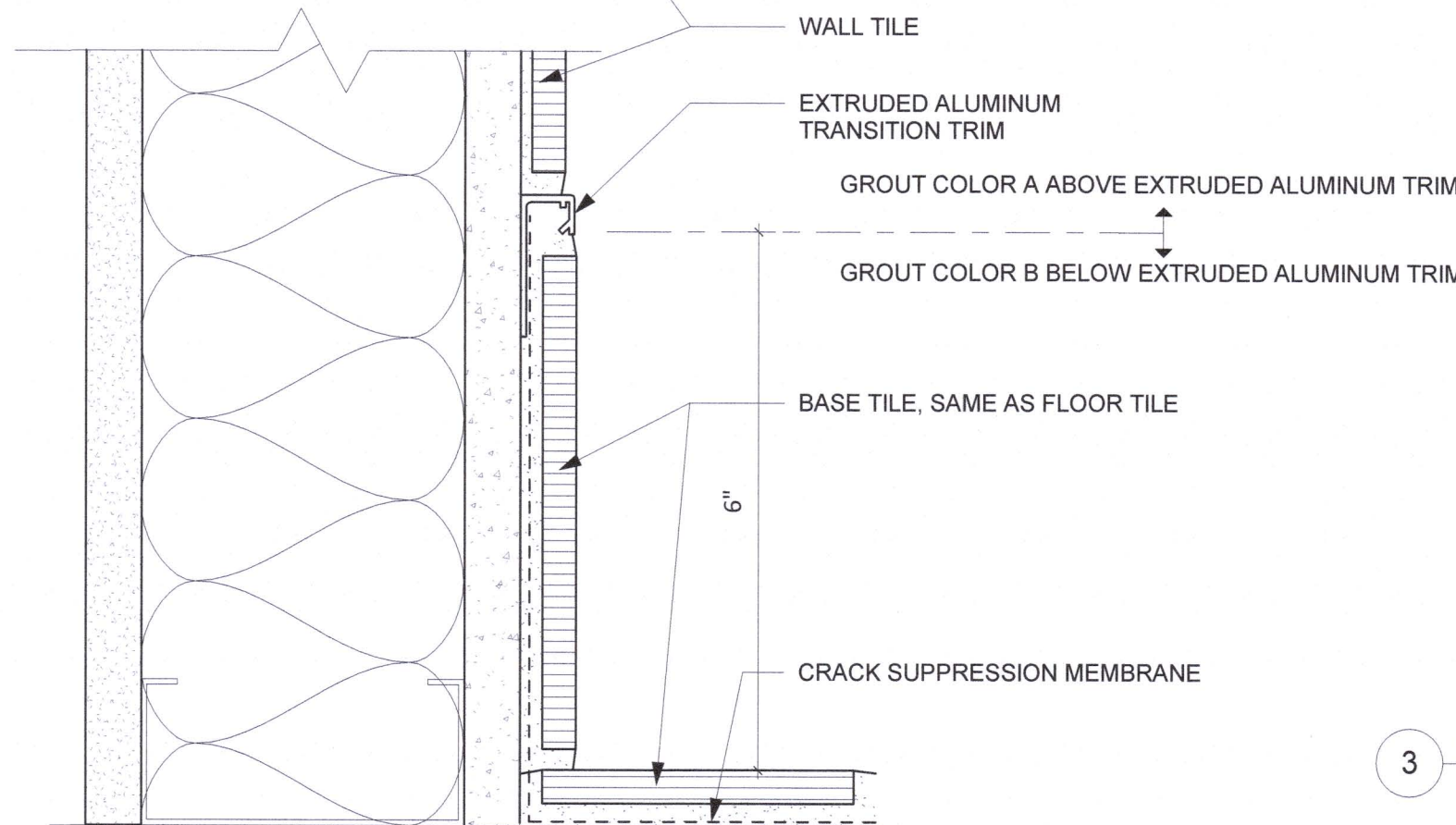
DH1 DOOR HEAD HOLLOW METAL
3" = 1'-0"



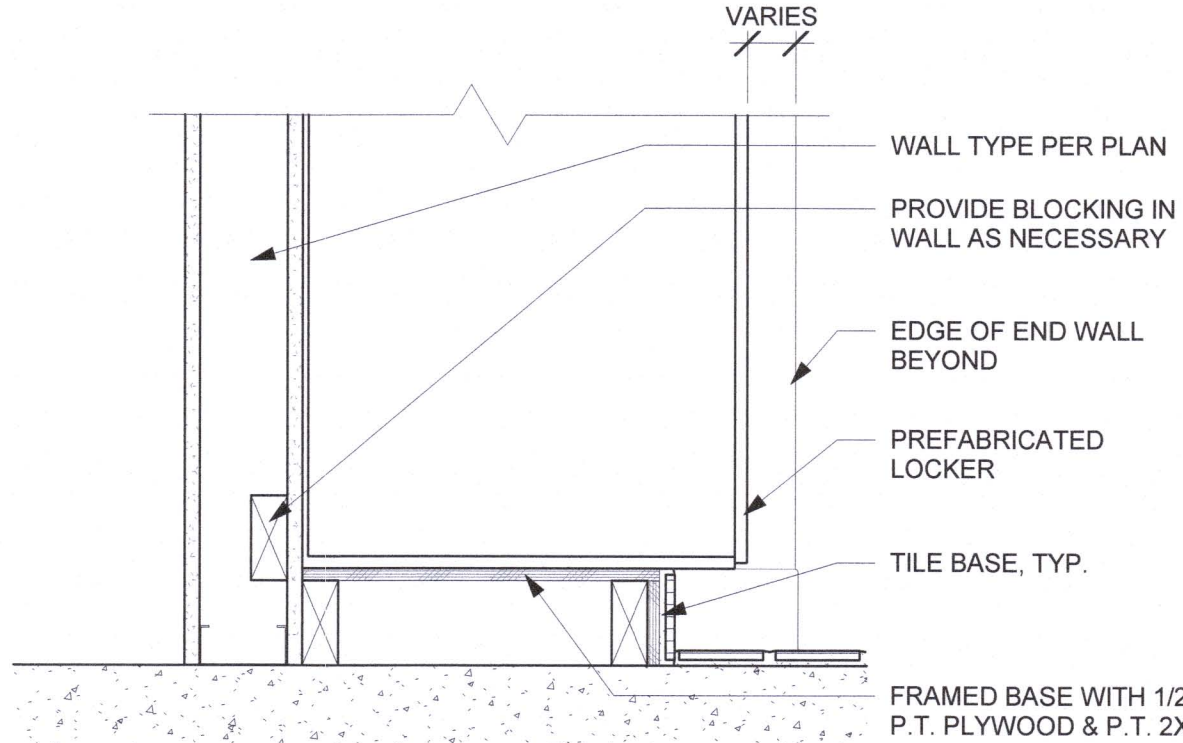
DJ1 DOOR JAMB HOLLOW METAL
3" = 1'-0"



DS1 DOOR SILL/THRESHOLD
3" = 1'-0"

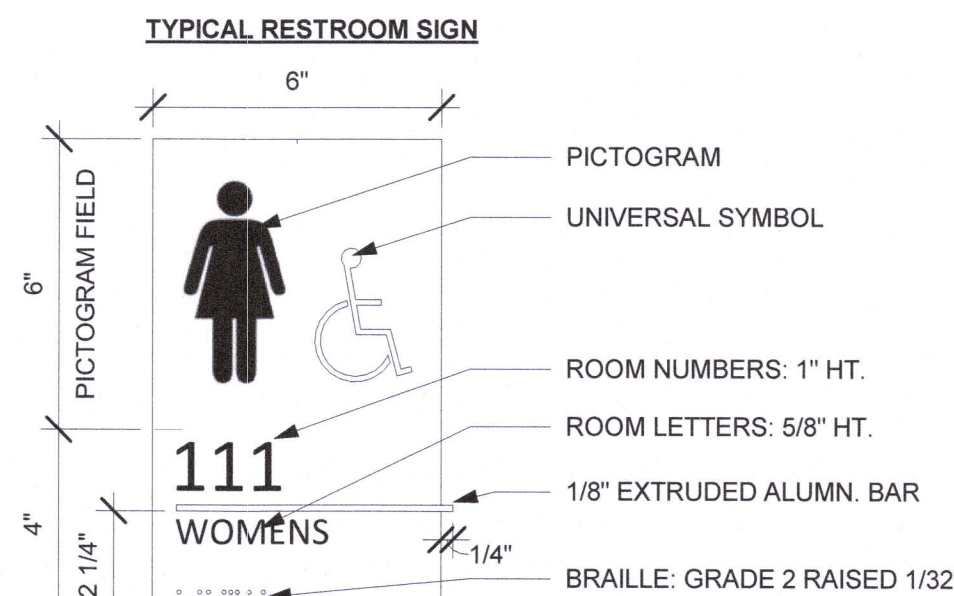


1 TYPICAL TILE TRANSITIONS
6" = 1'-0"



3 LOCKER BASE DETAIL
1 1/2" = 1'-0"

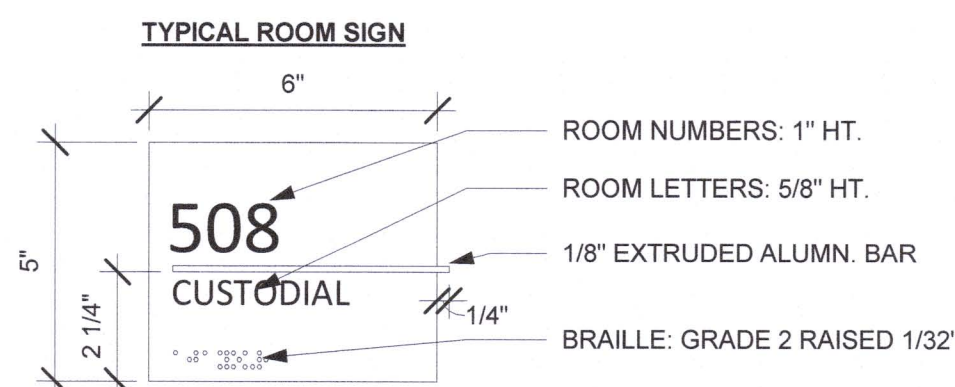
DOOR SCHEDULE											
DOOR NO.	DOOR TYPE	DOOR MATERIAL	SIZE		DOOR FRAME	FRAME TYPE	CONSTRUCTION DETAIL			HARDWARE SET	COMMENTS
			WIDTH	HEIGHT			HEAD	JAMB	SILL		
124	FLUSH	SOLID CORE WOOD	3' - 0"	7' - 0"	HM	F1	DH1	DJ1	DS1		
136	FLUSH	SOLID CORE WOOD	3' - 0"	7' - 0"	HM	F1	DH1	DJ1	DS1		
145	FLUSH	SOLID CORE WOOD	3' - 0"	7' - 0"	HM	F1	DH1	DJ1	DS1		
146	FLUSH	SOLID CORE WOOD	3' - 0"	7' - 0"	HM	F1	DH1	DJ1	DS1		
230	FLUSH	SOLID CORE WOOD	2' - 10"	7' - 0"	HM	F1	DH1	DJ1	DS1		
233	FLUSH	SOLID CORE WOOD	2' - 10"	7' - 0"	HM	F1	DH1	DJ1	DS1		



NOTE:
1. MOUNTING HEIGHT TO BE 60" A.F.F. TO THE TOP OF SIGN

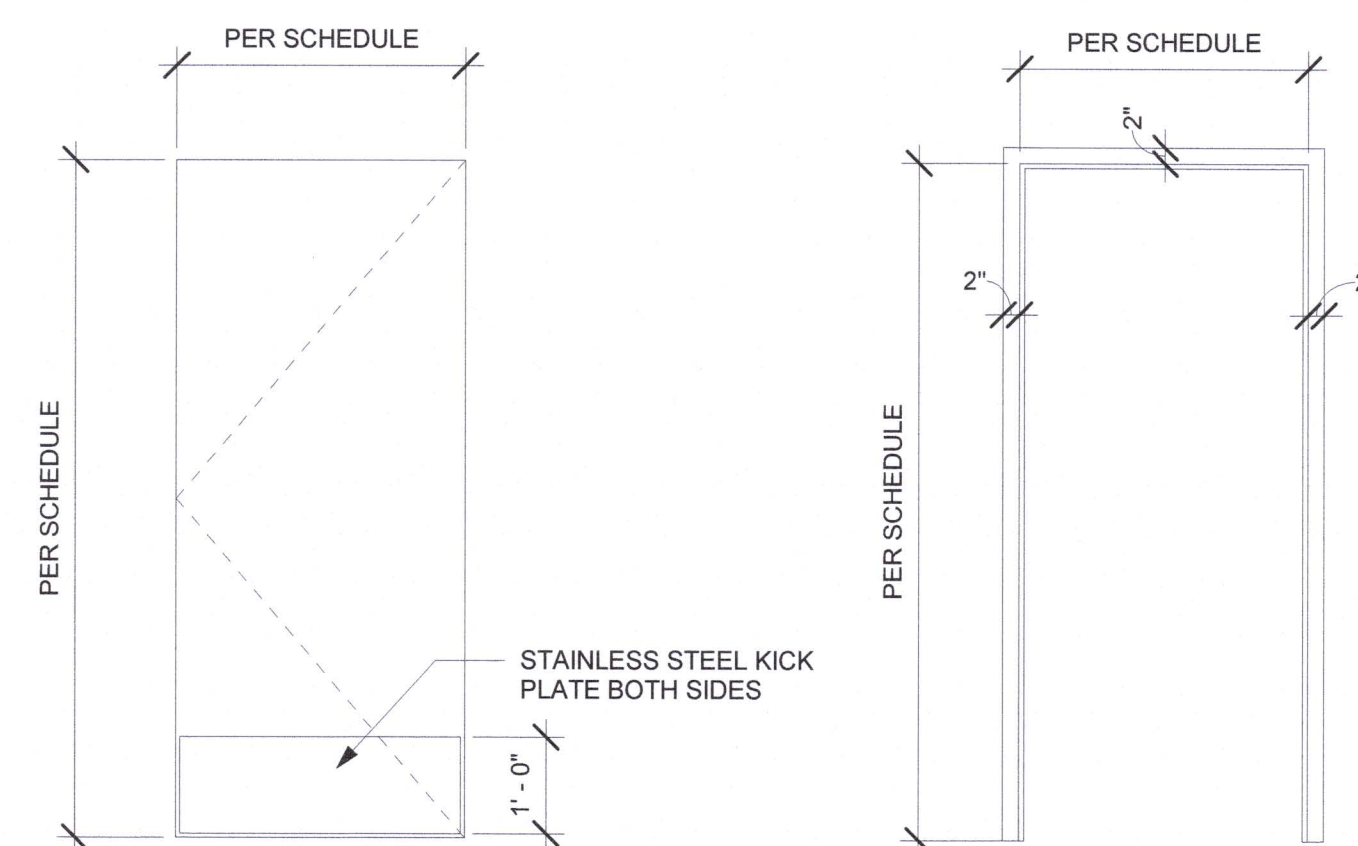
PROVIDE RESTROOM SIGNS FOR ROOMS:

- 145 MENS
- 146 WOMENS
- 230 WOMENS
- 233 MENS



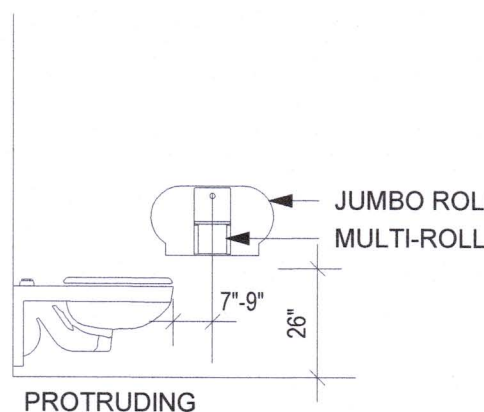
PROVIDE ROOM SIGNS FOR ROOMS:

- 124 CHANGING
- 134 CUSTODIAL
- 126 TELEPHONE
- 135 LACTATION
- 136 CHANGING
- 236 CUSTODIAL
- 228 TELEPHONE

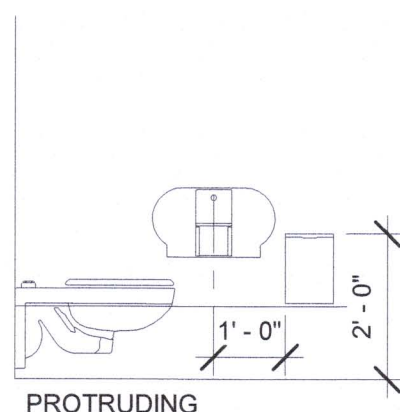


DOOR TYPES
1/2" = 1'-0"

FRAME TYPES
1/2" = 1'-0"

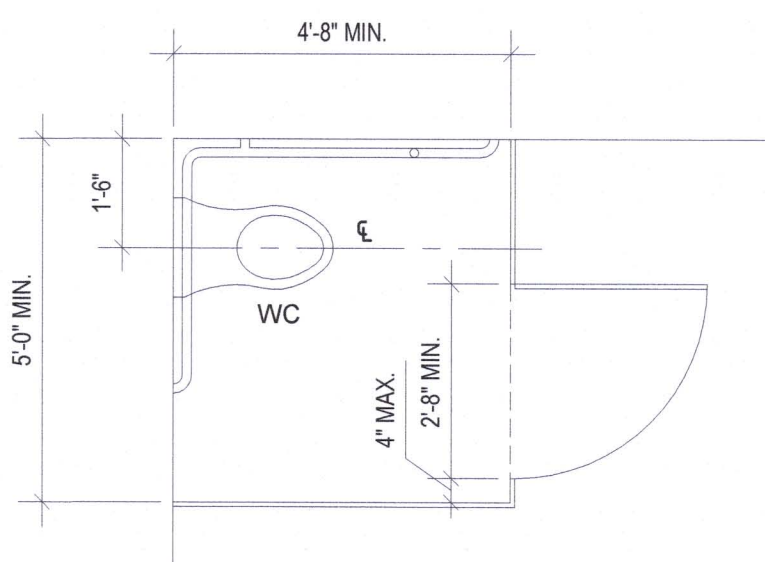


TOILET PAPER DISPENSER

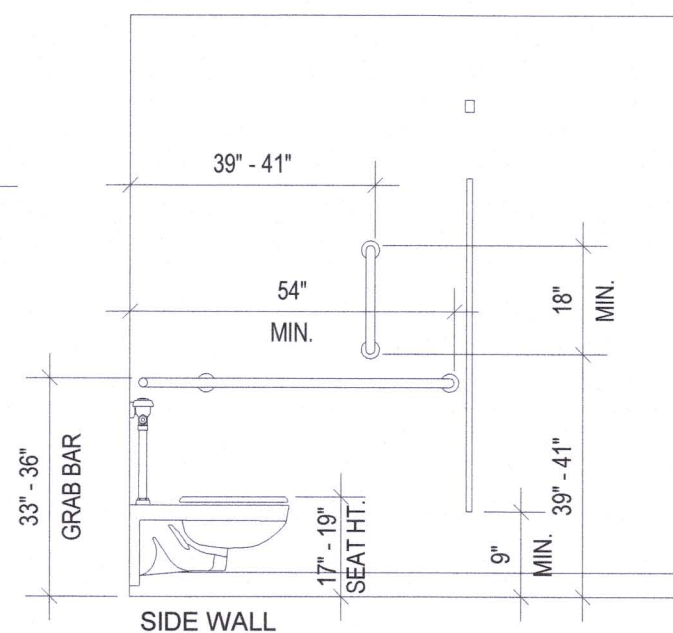


SANITARY NAPKIN DISPOSAL

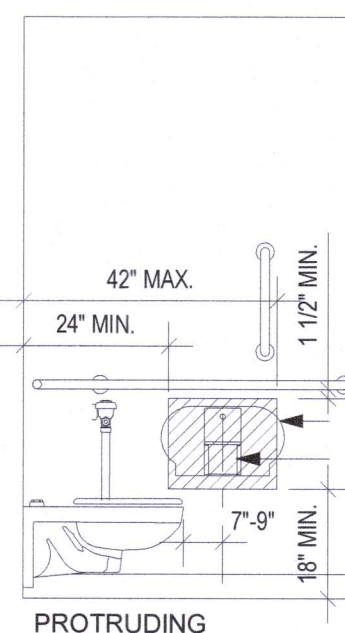
X NON-ADA MOUNTING HEIGHTS
3/8" = 1'-0"



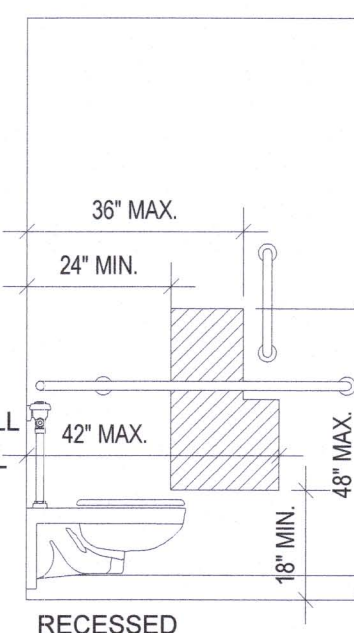
PLAN @ WATER CLOSET



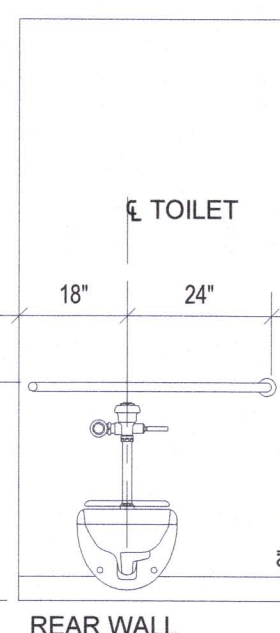
WATER CLOSET



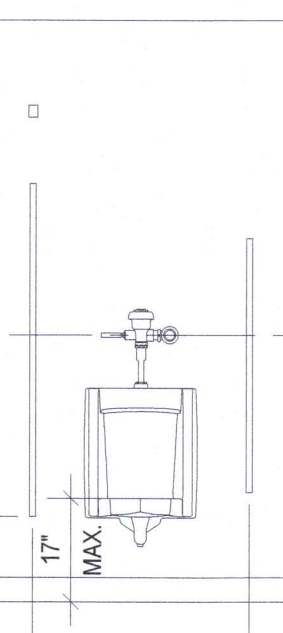
TOILET PAPER DISPENSER



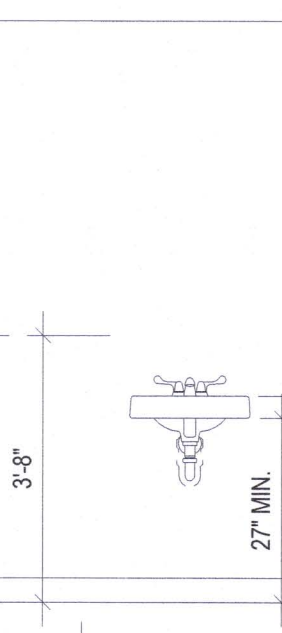
WATER CLOSET



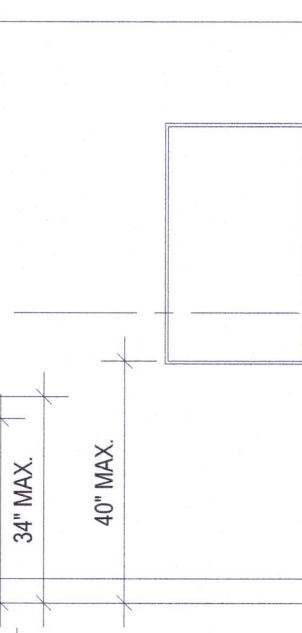
URINAL



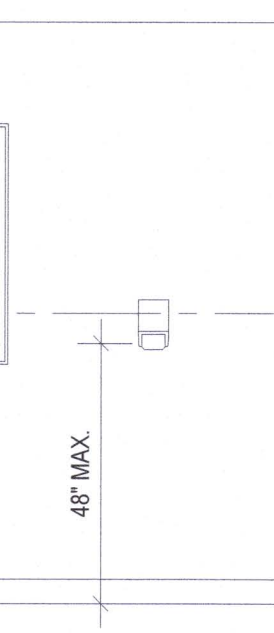
LAVATORY



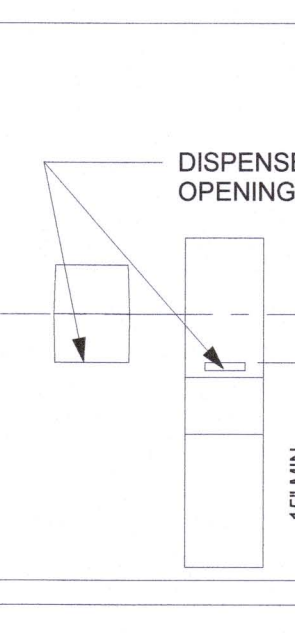
MIRROR



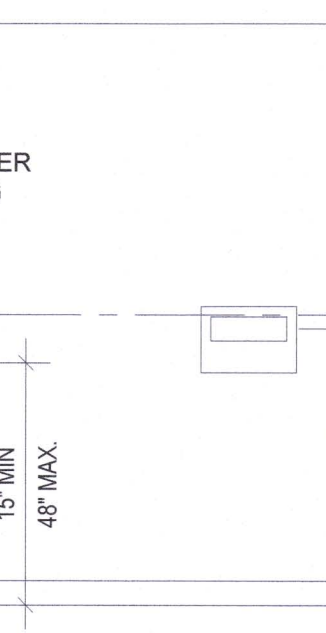
SOAP DISP.



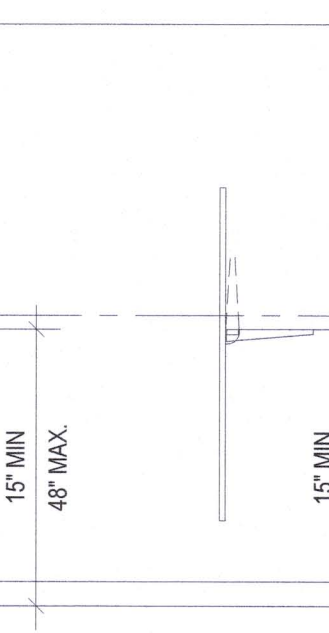
TOWEL DISP. & DISPOSAL



SEAT COVER DISP.

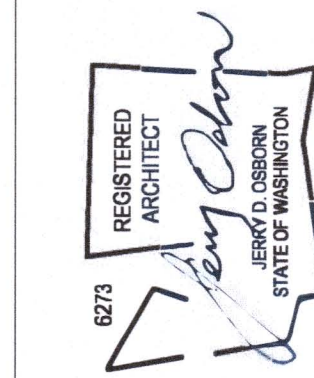


FOLDING SHELF



TOILET SEAT COVER DISPENSERS:
THE OPENING FOR TOILET SEAT
COVERS SHALL BE MOUNTED
BETWEEN 15" AND 48" ABOVE THE
FLOOR, IN AN ACCESSIBLE
LOCATION, TYPICALLY AWAY
FROM THE VICINITY OF THE TOILET
ITSELF

XX ADA MOUNTING HEIGHTS
3/8" = 1'-0"



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Architecture & Planning

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DATE:

APPR:

BY:

MARK:

REVISION:

Checker
JO AUG 4, 2021

APPROVED:

DIRECTOR: ENG. DATE NM AUG 4, 2021

PRINTED BY: NM

PORT ADDRESS: 1 SITCUM WAY

TACOMA, WA 98401

ADMINISTRATION BUILDING PLUMBING
REPAIRS

DETAILS

6666

A4.0

9 OF 33

CONTR/CONS: 071547

M. ID:

PHASE: 100% DESIGN

TOWNSHIP: 21

RANGE: 03

SECTION: 34

DAT-HRZ: WA83-SF

VERT:

PARCEL: 42

DRAWING SCALE: AS-INDICATED

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MECHANICAL GENERAL NOTES

MECHANICAL GENERAL NOTES

1. ALL WORK IS BASE BID UNLESS SPECIFICALLY NOTED AS ALTERNATE BID WORK.
2. MECHANICAL WORK IS NOT LIMITED TO MECHANICAL DRAWINGS AND DIVISION 20, 21, 22, AND 23 SPECIFICATIONS. THERE IS ADDITIONAL MECHANICAL WORK TO BE INCLUDED IN THE BID INDICATED ON OTHER DRAWINGS AND IN OTHER SPECIFICATION DIVISIONS. CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL MECHANICAL WORK.
3. ALL ITEMS ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING.
4. MECHANICAL EQUIPMENT 1/2 HP AND LESS SHALL HAVE ANY REQUIRED STARTER/CONTROL RELAY PROVIDED BY DIVISION 25 (EXCEPT WHERE SPECIFICALLY SHOWN OR SPECIFIED OTHERWISE).
5. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING SEISMIC & EXPANSION JOINTS. PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING & DUCT SYSTEMS WHICH CROSS SUCH JOINTS, SIZED/CONFIGURED TO ACCOMMODATE SPECIFIED MOVEMENT (SEE SPECIFICATIONS) IN ANY DIRECTION W/O PERMANENT DAMAGE. SUBMIT DETAILS OF FLEXIBLE CONNECTIONS & LOCATIONS.

PLUMBING GENERAL NOTES

1. 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.
2. TRAP PRIMERS: ALL FLOOR DRAINS, FUNNEL DRAINS, AND FLOOR RECEPTORS SHALL HAVE TRAP PRIMERS. SOME DRAINS HAVE THE TRAP PRIMER LINE AND ASSOCIATED TRAP PRIMER VALVE SHOWN ON THE PLANS SOME LOCATIONS DO NOT. LOCATIONS WHERE THIS TRAP PRIMER PIPING AND VALVE ARE NOT SHOWN STILL REQUIRE A TRAP PRIMER, BUT THE LOCATION MAY BE SELECTED BY THE CONTRACTOR. SEE DETAIL 4 SHEET M3.3.
3. CLEANOUTS: PROVIDE CLEANOUTS AS REQUIRED BY CODE; USE FLOOR CLEANOUTS WHERE POSSIBLE. SEE DETAILS ON SHEET M3.3.
4. PIPE ROUTING: ALL PIPING SHOWN IS SCHEMATIC. CONTRACTOR SHALL PROVIDE ALL OFFSETS/ELBOWS AS REQ'D TO ALLOW ROUTING AROUND STRUCTURE, ELECTRICAL, & OTHER INTERFERENCES. ALL PIPING SHALL BE RUN CONCEALED, UNO.
5. PIPE SIZES: UNSIZED PLUMBING PIPING SHALL MATCH THE SIZE OF THE LARGEST ADJACENT CONNECTING PIPE SIZE SHOWN, WHERE THE ADJACENT PIPE IS NOT SHOWN (OR NOT CLEAR), THE PIPE SIZE SHALL BE BASED ON THE GPM FLOWING IN THE PIPE (USE FIXTURE UNITS AND CORRESPONDING GPM PER THE UPC FOR DOMESTIC WATER SYSTEMS. USE WASTE FIXTURE UNITS & UPC TABLES FOR WASTE/VENT SYSTEM), AND A VELOCITY NO GREATER THAN 4 FEET PER SECOND. USE UPC CURVES FOR GPM/VELOCITY FOR APPROPRIATE PIPING MATERIAL INVOLVED.
6. ALL PLUMBING VENTS THRU ROOF SHALL BE MINIMUM 2' FROM ROOF CRICKET PEAK OR ROOF VALLEY. ADJUST PIPING AS NECESSARY.

HVAC GENERAL NOTES

1. ALL DUCT PENETRATIONS THRU WALLS AND FLOORS SHALL BE PROVIDED WITH CLOSURE COLLARS (BOTH SIDES OF PENETRATION) AND BE TIGHTLY SEALED TO PREVENT THE TRANSMISSION OF NOISE.
2. CONTRACTOR SHALL CAREFULLY COORDINATE WORK W/ ALL OTHER TRADES, ESPECIALLY IN CEILING SPACES WHERE SPACE IS TIGHT. SHEET METAL CONTRACTOR SHALL HAVE PRIORITY OVER OTHER MECHANICAL TRADES IN CEILING SPACE WHERE CONFLICTS OCCUR.

3. ALL DUCTWORK SHOWN IS SCHEMATIC, CONTRACTOR SHALL PROVIDE ALL OFFSETS/ELBOWS AS REQ'D TO ALLOW ROUTING AROUND STRUCTURE, ELECTRICAL, & OTHER INTERFERENCES.
4. FLEXIBLE DUCT LENGTH SHALL NOT EXCEED 8 FEET, AND MAY ONLY BE USED WHERE SPECIFICALLY SHOWN ON THE PLANS. SEE DETAIL 11 SHEET M4.4.
5. PROVIDE MANUAL VOLUME DAMPERS IN ALL BRANCH DUCTS AND SPLITS IN MAIN DUCTS AND WHERE REQUIRED BY BALANCERS; ONLY SOME OF THE REQUIRED DAMPERS ARE SHOWN ON THE PLANS.
6. UNSIZED DUCTS SHALL MATCH THE SIZE OF THE LARGEST ADJACENT DUCT THAT IS SIZED. WHERE THE ADJACENT DUCT SIZE IS NOT SHOWN, PROVIDE THE FOLLOWING SIZED DUCTS (OR EQUIVALENT RECTANGULAR).

CFM	DUCTS TO AIR INLETS/OUTLETS	OTHER DUCT
0 - 100	6" Ø	6" Ø
101 - 150	8" Ø	8" Ø
151 - 250	10" Ø	8" Ø
251 - 400	12" Ø	10" Ø
401 - 500	14" Ø	12" Ø
501 - 700	16" Ø	12" Ø
701 - 900	18" Ø	14" Ø
901 - 1200	20" Ø	16" Ø
1201 - 1500	----	18" Ø
1501 - 2000	----	20" Ø
2001 - 2400	----	22" Ø
>2401	SIZE BASED ON 0.08"/100" P.D.	

7. VERIFY LOCATIONS OF ITEMS INSTALLED IN CEILINGS WITH ARCHITECTURAL REFLECTED CEILING PLANS PRIOR TO BEGINNING WORK. NOTIFY ARCHITECT/ENGINEER OF DISCREPANCIES.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE & SELECT FINAL LOCATIONS OF ALL AIR INLETS/OUTLETS. SHIFT AIR INLETS/ OUTLETS FROM LOCATIONS SHOWN AS REQ'D TO AVOID CONFLICTS W/ STRUCTURE, LIGHTS, & OTHER ITEMS. SUCH SHIFTS SHALL MAINTAIN SYMMETRY OF AIR TERMINALS & SHALL HAVE PRIOR APPROVAL OF ARCHITECT/ENGINEER.
9. FOR HVAC DUCT FITTINGS/CONNECTIONS OF ELBOWS/TRANSITIONS SEE DETAILS ON SHEETS M4.3 & M4.4.
10. PROVIDE BALANCING OF HVAC SYSTEM & DOMESTIC HOT WATER RECIRCULATION SYSTEM.
11. CEILING SPACE IS TIGHT IN A NUMBER OF AREAS. IN SUCH AREAS, CEILING AIR INLET/OUTLET CONN'S REQUIRE SIDE INLET PLENUM, SEE DETAIL 1 SHEET M4.3. PROVIDE WHERE REQ'D DUE TO SPACE LIMITATIONS TO PREVENT KINKS IN FLEX DUCT AND ALLOW PROPER CONN.
12. ALL DUCTWORK SHALL BE RUN CONCEALED, UNO.
13. RESTROOM EXHAUST & TRANSFER GRILLES SHALL BE INSTALLED TO BE INLINE W/ EACH OTHER.
14. PROVIDE TRANSITIONS FROM DUCT SIZES INDICATED TO CONNECTION SIZES AT EQUIPMENT TO MATCH UNIT CONNECTIONS. WHERE THE CONNECTING DUCT IS LINED, THE TRANSITION SHALL BE LINED.
15. SEE SECTION 23 31 00 FOR DUCT CONSTRUCTION PRESSURE CLASS.

FIRE SPRINKLER NOTES

1. REVISE EXISTING SPRINKLER SYSTEM TO SUIT REMODEL AND PROVIDE COMPLETE FIRE SPRINKLER COVERAGE OF BUILDING, SEE SHEET M5.1.

MECHANICAL DRAWING INDEX

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M0.3	MECHANICAL SCHEDULES
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M1.2	LEVEL 1 - DEMOLITION PLAN - PLUMBING
M1.3	LEVEL 2 - DEMOLITION PLAN - PLUMBING
M1.4	LEVEL 1 - DEMOLITION PLAN - HVAC
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M3.1	LEVEL 1 - PLUMBING PLAN
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M4.3	HVAC DETAILS
M4.4	HVAC DETAILS
M5.1	FIRE PROTECTION PLANS

MECHANICAL LEGEND

SYMBOL	DESCRIPTION	ABBREV.	DESCRIPTION
—————	WASTE OR SOIL (W)	AFF	ABOVE FINISHED FLOOR
- - - - -	VENT (V)	AHJ	AUTHORITY HAVING JURISDICTION
—————	COLD WATER (CW)	AHU	AIR HANDLING UNIT
—————	HOT WATER (HW)	APPROX	APPROXIMATELY
—————	HOT WATER CIRCULATING (HWC)	ARCH	ARCHITECTURAL
⊙	FLOOR CLEANOUT (FCO)	ASSY	ASSEMBLY
— — —	ISOLATION VALVE - SEE SPECIFICATIONS FOR TYPE	AAV	AUTOMATIC AIR VENT
— — —	BALANCING VALVE	BDD	BACKDRAFT DAMPER
—○—	PIPE UP	B.O.D.	BOTTOM OF DUCT
—○—	PIPE DOWN	BTU	BRITISH THERMAL UNIT
— — —	PIPE TEE IN LINE, BRANCH PIPE DOWN	BTUH	BRITISH THERMAL UNIT/HOUR
— — —	UNION	BLDG	BUILDING
— — —	RELIEF VALVE OR SAFETY VALVE	CAP	CAPACITY
— — —	STRAINER WITH BLOW-OFF VALVE	CLG	CEILING
— — —	CONCENTRIC REDUCER	CO	CLEANOUT
↙↘	HOSE BIBB	CONN	CONNECTION
↑	MANUAL AIR VENT	CONT	CONTINUE, CONTINUATION
⊙	PRESSURE GAUGE	CFM	CUBIC FEET PER MINUTE
⊙	PRESSURE REDUCING VALVE	CW	COLD WATER
⊙	THERMOMETER	DEG F, °F	DEGREE FAHRENHEIT
⊙	FLUSH VALVE TRANSFORMER	DIA, Ø	DIAMETER
20/12	DUCT (FIRST FIGURE, SIDE SHOWN)	DN	DOWN
20/12Ø	FLAT OVAL DUCT (FIRST FIGURE, SIDE SHOWN)	DWG	DRAWING
20/12L 20/12L*	LINED DUCT (DIM. FOR NET FREE AREA) EOL = END OF LINING * = 2" THICK LINING EOL* = END OF 2" THICK LINING	DB	DRY BULB
R(D)	RISE (R) OR DROP (D) ARROW IN DIRECTION OF FLOW	EA	EACH
⊠	DUCT SECTION (SUPPLY)	EFF	EFFICIENCY
▤	DUCT SECTION (EXHAUST OR RETURN)	ELEC	ELECTRICAL, ELECTRIC
⊙ Ø	ROUND DUCT OR FLAT OVAL	EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
□	VOLUME DAMPER (MANUAL)	EOL	END OF LINING
□	MOTORIZED DAMPER	EXH	EXHAUST
□	FLEXIBLE CONNECTION	EXIST	EXISTING
□	COMBINATION FIRE/SMOKE DAMPER	ESP	EXTERNAL STATIC PRESSURE
~	FLEXIBLE DUCT	ETR	EXISTING TO REMAIN
⌋	ELBOW WITH TURNING VANES	F	FIRE
⊠	DUCT UP (RECTANGULAR)	FLEX	FLEXIBLE
⊠	DUCT UP (RECTANGULAR)	FL	FLOOR
⊠	DUCT DOWN (RECTANGULAR)	FCO	FLOOR CLEAN OUT
⊠	DUCT DOWN (RECTANGULAR)	FLA	FULL LOAD AMPS
⊙	DUCT UP (ROUND)	GAL	GALLON
⊙	DUCT DOWN (ROUND)	HB	HOSE BIBB
⊠ SIZE SYMBOL CFM	CEILING OUTLET (WHERE 2 CFM'S SHOWN, 1st = HIGH SPEED CFM 2nd = LOW SPEED CFM)	HP	HORSE POWER
⊠ SIZE SYMBOL CFM	CEILING INLET (WHERE 2 CFM'S SHOWN, 1st = HIGH SPEED CFM 2nd = LOW SPEED CFM)	HW	HOT WATER
⊠ SIZE SYMBOL CFM	WALL OUTLET (OR INLET)	HWC	HOT WATER CIRCULATION
⊙ ⊙ ⊙	THERMOSTAT A= AVERAGED WITH OTHER ⊙	IN	INCH
2 M3.1	DETAIL/SECTION IDENTIFICATION NUMBER SHEET ON WHICH DETAIL IS SHOWN	I.E.	INVERT ELEVATION
NOTE: FOR DESCRIPTION OF OTHER ABBREVIATIONS SEE SYMBOL LISTING TO THE LEFT, EQUIPMENT/ITEMS SCHEDULES, AND ABBREVIATIONS LISTED IN SPECIFICATIONS		KW	KILOWATT
		L	LINING
		MAV	MANUAL AIR VENT
		MAX	MAXIMUM
		MFR	MANUFACTURER
		MBH	THOUSAND BTUH
		MCA	MINIMUM CIRCUIT AMPACITY
		MECH	MECHANICAL
		MIN	MINIMUM
		NO	NORMALLY OPEN
		NC	NORMALLY CLOSED
		NO.	NUMBER
		NTS	NOT TO SCALE
		OBD	OPPOSED BLADE DAMPER
		OA	OUTSIDE AIR
		PH	PHASE
		P.D.I.	PLUMBING AND DRAINAGE INST.
		PD	PRESSURE DROP
		R	RETURN
		RLA	RATED LOAD AMPS
		REF	REFERENCE
		REQ'D	REQUIRED
		RA	RETURN AIR
		RPM	REVOLUTIONS PER MINUTE
		RM	ROOM
		S	SUPPLY
		SA	SUPPLY AIR
		S.O.	SCREENED OPENING
		SS	STAINLESS STEEL
		TEMP	TEMPERATURE
		TD	TRANSFER DUCT
		TG	TRANSFER GRILLE
		TYP	TYPICAL
		UNO	UNLESS NOTED OTHERWISE
		VTR	VENT THROUGH ROOF
		V	VOLTS, VOLTAGE, VENT
		WC	WATER COLUMN
		WCO	WALL CLEAN OUT
		WL	WALL LOUVER
		W	WASTE
		WA	WATT
		W/	WITH



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SIGNED
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AUG 4, 2021

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PORT ADDRESS: 1 SITCUM WAY
TACOMA, WA 98401

ADMINISTRATION BUILDING PLUMBING REPAIRS

MECHANICAL LEGEND & NOTES

6666 M0.1 10 OF 33

CONT/CONS: 071547

M. ID: 101339.02

PHASE: BID SET

TOWNSHIP: 21

DAT-HRZ: WA83-SF

PARCEL: 42

RANGE: 03

SECTION: 34

VERT: 1

DRAWING SCALE: AS-INDICATED

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1111 Fawcett Ave Suite 100 Tacoma, WA 98402
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general@hultzbhu.com Job Number: 21-028

BID SET - 08/04/21

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MECHANICAL GENERAL DEMOLITION NOTES

1. 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. NOT ALL ITEMS TO BE DEMO'D ARE SHOWN. CONTRACTOR IS RESPONSIBLE TO REVIEW EXISTING CONDITIONS, EXISTING DRAWINGS, AND MECHANICAL GENERAL DEMOLITION NOTES.
2. A PRE-BID WALK-THRU IS A MANDATORY REQUIREMENT. 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. NOT ALL PLUMBING FIXTURES & HVAC ITEMS TO BE DEMO'D ARE SHOWN; SEE GENERAL NOTES FOR REQUIREMENTS.
3. EXIST. 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.
4. ALL EXIST. ITEMS NOT BEING REUSED SHALL BE REMOVED. THIS INCLUDES SUCH ITEMS AS THERMOSTATS, CONTROL DEVICES, CONTROL WIRING, PNEUMATIC TUBING, DUCTS, FANS, PIPING, GRILLES, SUPPORTS, VALVES, CURBS, AND RELATED ACCESSORIES.
5. ABANDONED ITEMS, ANCHORS, INSERTS, PIPE STUBS, AND OTHER PROJECTIONS NOT BEING CONCEALED BY NEW CONSTRUCTION SHALL BE REMOVED TO 1" BELOW THE ADJACENT FINISHED SURFACE, AND THE DISTURBED AREA PATCHED.
6. PATCH ALL WALL/FLOOR/CEILING OPENINGS LEFT BY REMOVAL OF EXIST. ITEMS. PATCH SO AS TO MATCH FINISH OF ADJACENT UNDISTURBED AREA.
7. REFERENCE ARCHITECTURAL DRAWINGS FOR WHERE CEILING/WALL AND OTHER GENERAL DEMOLITION WORK IS BEING DONE.
8. SEE MECHANICAL FLOOR PLANS FOR HVAC DUCTS THAT ARE BEING REUSED.
9. WHERE EXIST. DUCTS ARE REUSED, AND EXIST. BRANCH DUCTS ARE REMOVED, PROVIDE SHEET METAL PATCH WITH INSULATION AT UNUSED CONNECTION (INSULATION REQUIRED ON SUPPLY AIR DUCTS ONLY).
10. WHERE EXIST. PLUMBING FIXTURES ARE REMOVED, CAP OFF CW, HW, VENT & WASTE PIPING AT A CONCEALED LOCATION (I.E. ABOVE CEILING OR INSIDE WALL).
11. WHEREVER FLOOR DRAINS ARE REMOVED, LOCATE AND REMOVE TRAP PRIMER THAT SERVED DRAIN(S) AND CAP OFF CW PIPING.
12. 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, CHS/CHR, CW, HW, WASTE, VENT, CONTROLS, DUCTWORK, ETC.).
13. HOLD ALL REMOVED ITEMS FOR OWNERS REVIEW. ITEMS SELECTED BY OWNER FOR SALVAGE SHALL BE MOVED BY THE CONTRACTOR TO THE OWNERS STORAGE ROOM (VERIFY EXACT LOCATION WITH OWNER). ITEMS NOT SELECTED BY OWNER FOR SALVAGE SHALL BE DISPOSED OF OFF SITE BY CONTRACTOR.
14. ALL EXISTING ITEMS ASSOCIATED WITH DEMO'D ITEMS SHALL BE REMOVED. THIS INCLUDES SUCH ITEMS AS HANGERS, THERMOSTATS, DAMPERS, CURBS, SUPPORTS, CONTROL WIRING/CONDUIT, UNIONS, VALVES, PIPING, DUCTS, AND SIMILAR ACCESSORIES.
15. ROUTING SHOWN OF EXISTING ITEMS IS APPROXIMATE, CONTRACTOR SHALL FIELD VERIFY LOCATIONS, CONTENTS, AND FLOW DIRECTION OF ALL PIPING & DUCTS. LABELING SHOWN ON PLANS HAS NOT BEEN VERIFIED.
16. PROVIDE CAP-OFF OF ALL EXISTING UTILITIES THAT ARE CUT OR SERVED DEMO'D ITEMS. SYSTEMS TO BE CAPPED OFF INCLUDE HW, CW, WASTE, VENT, HWS, HWR, RL, HWC, SA DUCTS, RA DUCTS, AND EXHAUST DUCTS. ALL CAP-OFFS SHALL OCCUR IN A CONCEALED LOCATION.
17. SEE PLUMBING AND HVAC FLOOR PLANS FOR RECONNECTION OF NEW PIPING AND DUCTWORK.

ENERGY CODE NOTES - MECHANICAL 2018

- DUCTING SYSTEMS
1. DUCT CONSTRUCTION, C403.10: DUCTWORK SHALL BE CONSTRUCTED AND SEALED PER IMC.
2. DUCT PRESSURE CLASS, C403.10.2: ALL DUCTWORK SHOWN IS LOW PRESSURE DUCT, OPERATING AT STATIC PRESSURE LESS THAN OR EQUAL TO 3 INCHES WATER GAUGE (W.G.).
3. DUCT INSULATION, C403.10.1: MINIMUM DUCT INSULATION PER WSEC IS AS FOLLOWS:
- | SERVICE | INSULATION LEVEL |
|--|---|
| OUTSIDE AIR DUCTS AND PLENUMS | PROVIDE INSULATION EQUIVALENT TO ENVELOPE REQUIREMENT FOR METAL FRAMED WALLS (TABLE C402.1.3) |
| OUTSIDE AIR DUCT SERVING INDIVIDUAL SUPPLY UNIT WITH LESS THAN 2,800 CFM OF SUPPLY AIR | R-7 |
| SUPPLY & RETURN DUCTS IN UNCONDITIONED SPACES | R-6 |
| SUPPLY DUCTS WITHIN CONDITIONED SPACE WHERE SUPPLY AIR IS < 55 DEG F. OR > 105 DEG F. | R-3.3 |
| EXPOSED DUCTWORK WITHIN A ZONE THAT SERVES THAT ZONE | NO INSULATION REQUIRED |
- PIPING SYSTEMS
4. PIPING INSULATION, C403.10.3: MINIMUM PIPE INSULATION PER WSEC IS AS FOLLOWS:
- | FLUID OPERATING TEMPERATURE | <1 | 1 TO <1-1/2 | 1-1/2 TO <4 | 4 TO <8 | OVER 8 |
|-----------------------------|-----|-------------|-------------|---------|--------|
| >350 | 4.5 | 5.0 | 5.0 | 5.0 | 5.0 |
| 251-350 | 3.0 | 4.0 | 4.5 | 4.5 | 4.5 |
| 201-250 | 2.5 | 2.5 | 2.5 | 3.0 | 3.0 |
| 141-200 | 1.5 | 1.5 | 2.0 | 2.0 | 2.0 |
| 105-140 | 1.0 | 1.0 | 1.5 | 1.5 | 1.5 |
| 40-60 | 0.5 | 0.5 | 1.0 | 1.0 | 1.0 |
| <40 | 0.5 | 1.0 | 1.0 | 1.0 | 1.5 |
- PROJECT CLOSE OUT DOCUMENTATION
5. DOCUMENTATION SUBMITTAL REQUIREMENTS, C103.6: SUBMIT ALL CLOSEOUT DOCUMENTATION INCLUDING AS-BUILTS AND O&M'S TO OWNER WITHIN 180 DAYS OF RECEIPT OF CERTIFICATE OF OCCUPANCY.
6. THESE "ENERGY CODE NOTES" ARE LISTED TO SATISFY THE BUILDING DEPARTMENT'S REQUIREMENT THAT CERTAIN INFORMATION BE PLACED ON THE PLANS, BUT DO NOT DIMINISH THE FULL PROJECT REQUIREMENTS. PROVIDE ITEMS IN EXCESS OF CODE WHERE NOTED ON DRAWINGS AND IN SPECIFICATIONS. FOR OTHER ADDED REQUIREMENTS, SEE SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
- | ITEM | SECTION# |
|----------------------------|-----------------------------------|
| AS-BUILT DOCUMENTS | 20 05 00 |
| O&M MANUALS | 20 05 00 |
| PIPING & DUCT INSULATION | 20 07 00 |
| DUCTWORK SEALING & TESTING | 23 31 00 |
| CONTROLS | DIVISION 25 [23 09 33 & 23 09 93] |
- PIPING SYSTEMS
7. INSULATION OF PIPING, C404.6: PROVIDE INSULATION FROM WATER HEATER TO FINAL FIXTURE, AND ON PIPING THAT IS HEAT TRACED. MINIMUM PIPE INSULATION PER WSEC IS AS FOLLOWS:
- | FLUID OPERATING TEMPERATURE | <1 | 1 TO <1-1/2 | 1-1/2 TO <4 | 4 TO <8 | OVER 8 |
|-----------------------------|-----|-------------|-------------|---------|--------|
| 141-200 | 1.5 | 1.5 | 2.0 | 2.0 | 2.0 |
| 105-140 | 1.0 | 1.0 | 1.5 | 1.5 | 1.5 |
| 40-60 | 0.5 | 0.5 | 1.0 | 1.0 | 1.0 |
| <40 | 0.5 | 1.0 | 1.0 | 1.0 | 1.5 |
8. EFFICIENT SWH SUPPLY PIPING, C404.3: ALL PIPING CONNECTING TO SERVICE HOT WATER SOURCE, SHALL COMPLY WITH MAXIMUM ALLOWABLE PIPE LENGTH METHOD. MAXIMUM ALLOWABLE LENGTHS ARE AS FOLLOWS:
- | NOMINAL PIPE SIZE (INCH) | MAXIMUM LENGTH (FEET) AT PUBLIC LAVATORY | AT OTHER FIXTURES |
|--------------------------|--|-------------------|
| 1/2 | 2 | 43 |
| 3/4 | 1 | 21 |
| 1 | 0.5 | 13 |
| 1-1/4 | 0.5 | 8 |
| 1-1/2 | 0.5 | 6 |
| 2 OR LARGER | 0.5 | 4 |

MECHANICAL COMPLIANCE SUMMARY

2018 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

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Project & Applicant Information	Project Title	PoT Plumbing Repairs - 2018 WSEC		For Building Department Use:	Date: Mar 24, 2021
	Project Address	ONE SITCUM PLAZA TACOMA, WA 98421			
	Applicant Name	Phil Crawford			
	Applicant Phone	253-383-3257			
	Applicant Email	philc@hultzbhu.com			
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com					

General Occupancy	All Commercial		General Building Use Type	Office, Government/Municipal		Building Cond. Floor Area	10,000
General Project Types	Alteration	New Building or Addition Mechanical Scope		Alteration Mechanical Scope	Single Zone Systems & Equipment	Project Cond. Floor Area	1,247
						Floors Above Grade	2
						Compliance Method	Compliance Method 1 - General
Mechanical Project Description Interior TI Remodel: Reconfigure walls for ADA compliance. New plumbing fixtures and new grilles, connected to existing infrastructure.							

Mechanical Compliance Scope and Method	Project Type	Mechanical Scope	Economizer Exception(s) Applied?	DOAS Ventilation Provided?	Higher Equipment Efficiency Option Applied?	Equipment Efficiency Compliance Verification
	Alteration	Single Zone Systems & Equipment	Yes	No	NA	COMPLIES
Additional Efficiency Credits Included (AEC)						
Does building include occupancy classifications requiring DOAS?		No		Does project include DOAS equipment?		No
Based on project scope do TSPR requirements apply?		No		Do all systems comply with Appendix D standard reference design or qualify for an exception to TSPR?		No

Scope & Space Conditioning	ALTERATION - SINGLE ZONE SYSTEMS & EQUIPMENT			Compliance Verification	COMPLIES
----------------------------	--	--	--	-------------------------	----------

Single Zone Air Systems Category - Air handling unit, hydronic

Air Systems Summary Information							
System/Equip ID	Supply Airflow Control	Ventilation Standard	Ventilation CFM	Ventilation Air Source	Paired with DOAS	Ventilation energy recovery	Energy Recovery Efficiency (%)
Existing AHU-1	Constant volume	Unoccupied, no ventilation requirement	7,800	Integral		Not provided, not required	

Air Systems & Equipment - Cooling											
System/Equip ID	Cooling System/Equip Type	Specific Type	Cooling Capacity per item (Btu/h)	AEC Efficiency Multiplier	Econo Exception Multiplier (FL & PL)	Combined Efficiency Multiplier (AEC & Econo)	Proposed Cooling Efficiency	CE Units	Proposed Part Load Efficiency	PL Units	Efficiency Compliance Verification
Existing AHU-1	Air conditioner, air cooled	Split system DX	192,000	1	0	1	11.0	EER	12.4	IEER	COMPLIES

Air Systems & Equipment Details		
System/Equip ID	Area(s) Served	Location In Project Documents - Plan/Detail #
Existing AHU-1	Building	Chase
	Heating Section/Auxiliary Heating Type: Electric resistance (or None)	
	Economizer Compliance Method: Economizer not required	
	WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(1)A - Unitary Air Conditioners & Condensing Units	

PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	W	V	CW	HW	REMARKS
P-1A	WATER CLOSET	4"	2"	1"	-	FLOOR MOUNT, ADA ACCESSIBLE, SENSOR OPERATED, 115V / 1PH
P-1B	WATER CLOSET	4"	2"	1"	-	FLOOR MOUNT, SENSOR OPERATED, 115V / 1PH
P-2A	URINAL	2"	1-1/2"	3/4"	-	WALL MOUNT, ADA ACCESSIBLE, SENSOR OPERATED, 115V/1PH
P-3A	LAVATORY	2"	1-1/2"	1/2"	1/2"	WALL MOUNT, ADA ACCESSIBLE, SENSOR OPERATED, 115V / 1PH
P-9A	SHOWER	-	-	3/4"	3/4"	ADA ACCESSIBLE
P-11A	FLOOR DRAIN	SIZES AS NOTED ON PLANS *				W/ TRAP PRIMER

* PROVIDE W/ 4" W & 2" V UNO.

AIR INLET & OUTLET SCHEDULE

SYMBOL	TYPE	MANUFACTURER AND SERIES NUMBER	REMARKS
CD	CEILING DIFFUSER	TITUS MCD	MODULAR CORE DIFFUSER, ADJUSTABLE DISCHARGE, SQUARE NECK
CEG	CEILING EXHAUST GRILLE	KRUEGER SERIES EGC-5	1/2"x1/2"x1/2" CUBE CORE
TG	TRANSFER GRILLE	KRUEGER SERIES EGC-5	1/2"x1/2"x1/2" CUBE CORE

NOTES:

- CEILING DIFFUSERS (CD) SHALL HAVE NO. & DIRECTION OF THROWS AS INDICATED ON PLANS. (E.G. CD-3 = 3 WAY THROW)
- ALL AIR TERMINALS SHALL HAVE FACTORY FINISH, COLOR AS SELECTED BY ARCHITECT.
- SEE LEGEND FOR TERMINOLOGY USED IN AIR TERMINAL CALL-OUTS ON DRAWINGS.
- SEE ARCH. FINISH SCHEDULE FOR CEILING TYPES, PROVIDE AIR TERMINALS TO MATCH CEILING CONSTRUCTION INSTALLED IN.

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general@hultzbhu.com Job Number: 21-028

BID SET - 08/04/21



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SEATTLE, WA 98134 | (206) 631-9442



SIGNED
08-04-21

Checker
BS AUG 4, 2021

APPROVED: *Phil Crawford*

MECHANICAL SCHEDULES

CONTRACTOR: 071547 TOWNSHIP: 21 RANGE: 03 SECTION: 34
M. ID: 101339.02 DAT-HRZ: WA83-SF VERT: 42
PHASE: BID SET

ADMINISTRATION BUILDING PLUMBING REPAIRS

BS AUG 4, 2021

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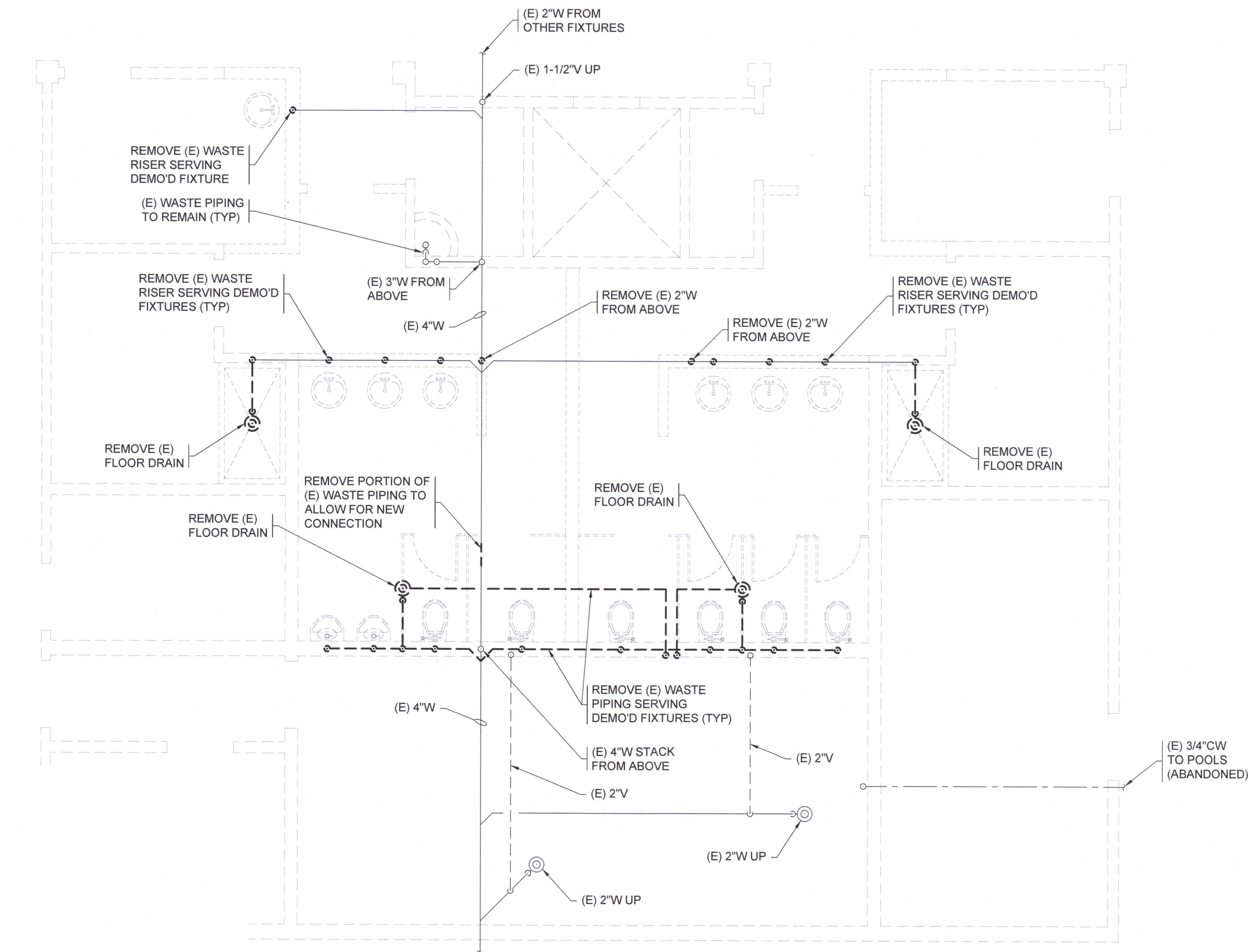
ADMINISTRATION BUILDING PLUMBING REPAIRS

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M0.3

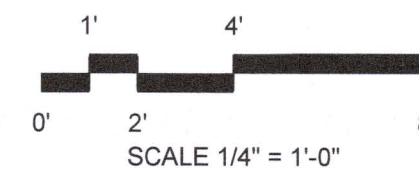
12 OF 33

CONTRACTOR: 071547 TOWNSHIP: 21 RANGE: 03 SECTION: 34
M. ID: 101339.02 DAT-HRZ: WA83-SF VERT: 42
PHASE: BID SET

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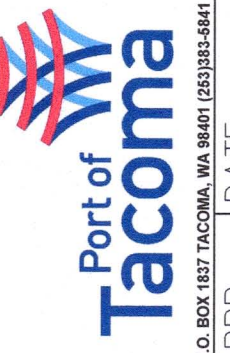


① FOUNDATION - DEMOLITION PLAN - PLUMBING
1/4" = 1'-0"



GENERAL NOTES:

- SEE MECHANICAL GENERAL DEMOLITION NOTES SHEET M0.2.
- PROVIDE SAWCUTTING OF EXISTING REINFORCED CONCRETE FLOOR TO ACCOMMODATE PLUMBING. SEE SHEET M2.1.



APPROVED:	Checker
<i>Michael Leo Thomas</i>	BS AUG 4, 2021
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ADMINISTRATION BUILDING PLUMBING REPAIRS	SECTION: 34
FOUNDATION - DEMOLITION PLAN - PLUMBING	RANGE: 03
TOWNSHIP: 21	DATE: 10/13/2021
DAT-HRZ: WA83-SF	VERT: 42
PARCEL: 42	DRAWING SCALE: AS-INDICATED

6666	13 OF 33
M1.1	CONT/CONS: 071547
	M. ID: 101339.02
	PHASE: BID SET

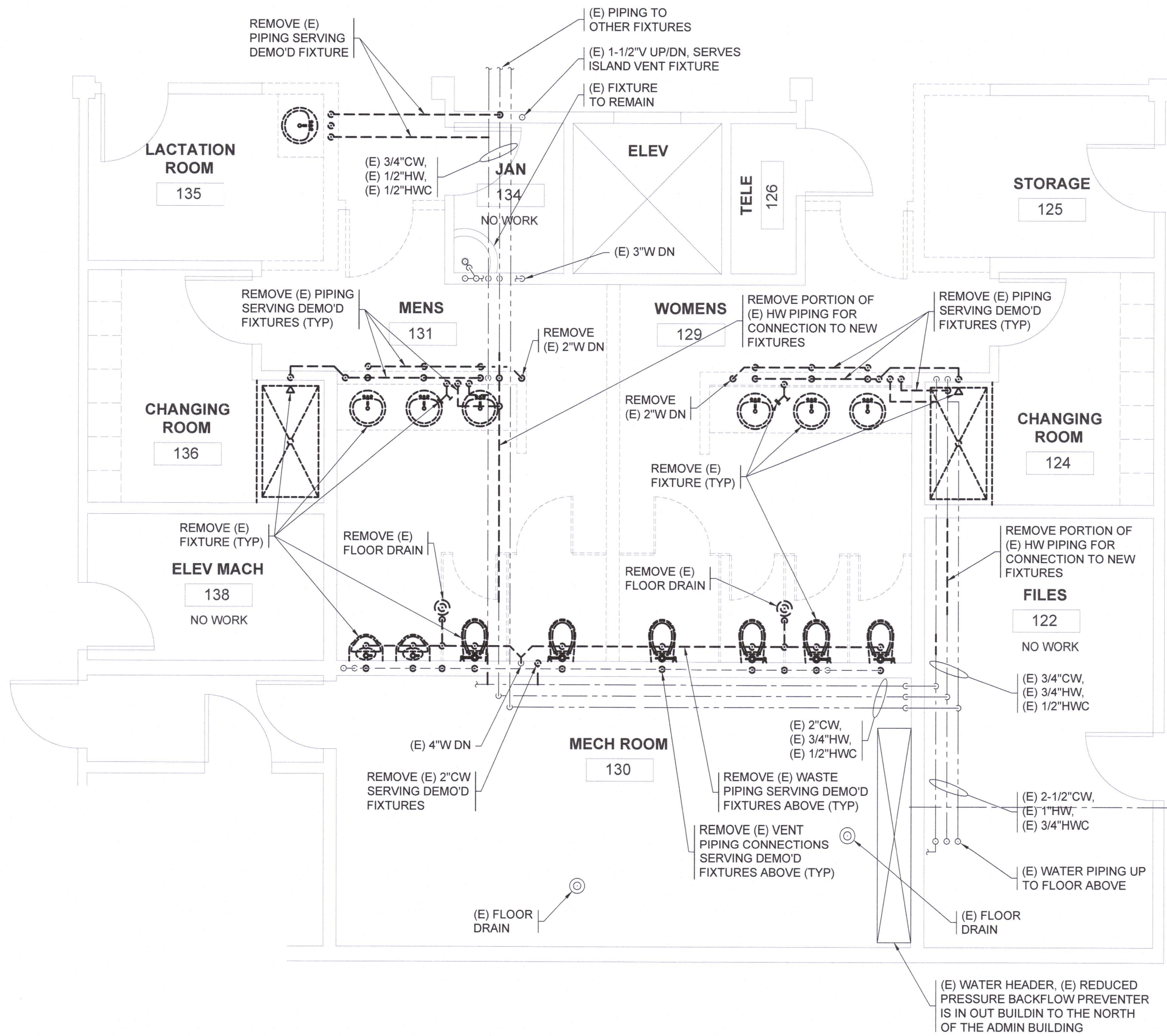
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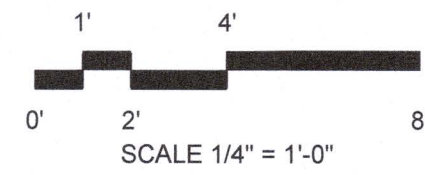
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① LEVEL 1 - DEMOLITION PLAN - PLUMBING
1/4" = 1'-0"



GENERAL NOTES:

- SEE MECHANICAL GENERAL DEMOLITION NOTES SHEET M0.2.
- PROVIDE CORE DRILL AND SAWCUTTING OF EXISTING REINFORCED CONCRETE FLOOR FOR NEW FIXTURES, FLOOR DRAINS, AND PIPING.



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SEATTLE, WA 98124 | (206) 531-6442

DATE:

BY:

APPR:

MARK:

REVISION:



SIGNED

08-04-21

Checker
BS AUG 4, 2021

APPROVED:
Michael Leo Jones

DIRECTOR ENG. DATE MT AUG 4, 2021

PRINTED BY: BS

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TACOMA, WA 98401

DRAWING SCALE: AS-INDICATED

SECTION: 34

RANGE: 03

TOWNSHIP: 21

DATE-HRZ: WA83-SF

PARCEL: 42

PHASE: BID SET

CONTRACT/CONS: 071547

M. ID: 101339.02

14 OF 33

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M1.2

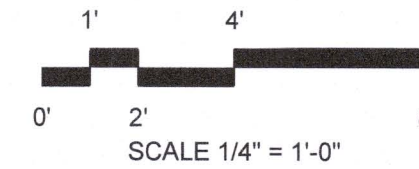
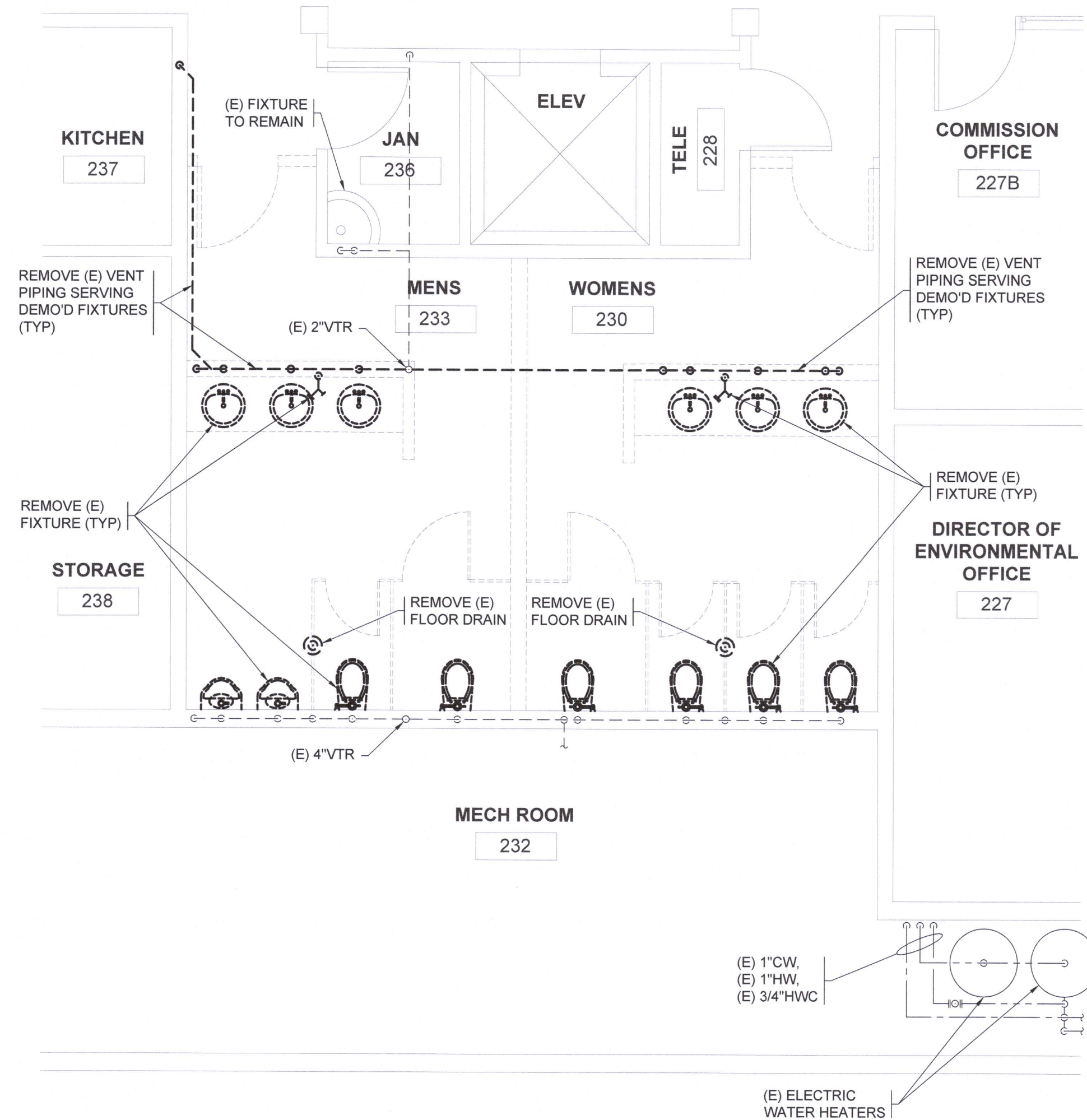
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① LEVEL 2 - DEMOLITION PLAN - PLUMBING
1/4" = 1'-0"



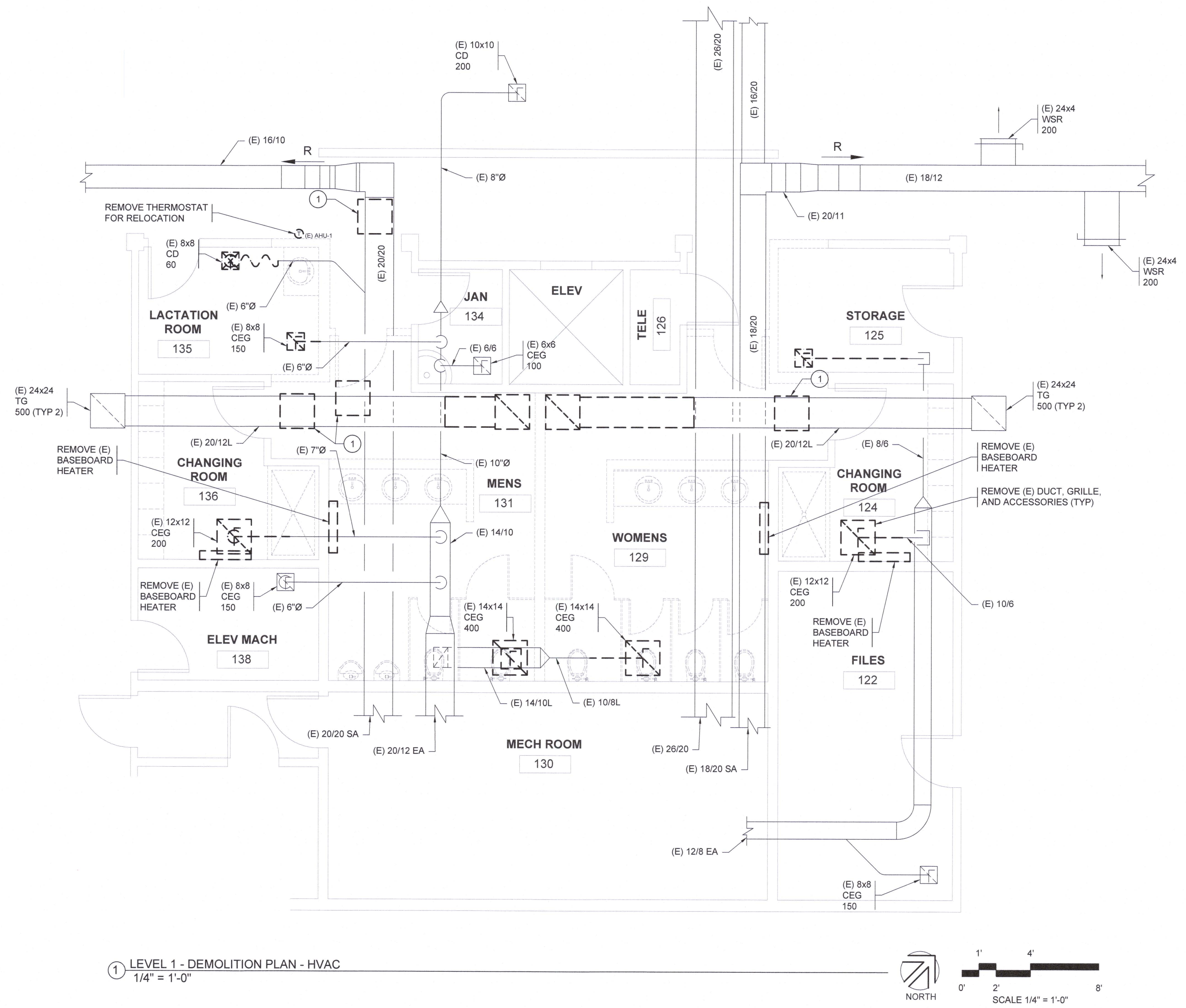
GENERAL NOTES:

- SEE MECHANICAL GENERAL DEMOLITION NOTES SHEET M0.2.
- PROVIDE CORE DRILL AND SAWCUTTING OF EXISTING REINFORCED CONCRETE FLOOR FOR NEW FIXTURES, FLOOR DRAINS, AND PIPING.

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6666 M1.3 15 OF 33 CONT/CONS: 071547 M. ID: 101339.02 PHASE: BID SET	ADMINISTRATION BUILDING PLUMBING REPAIRS		APPROVED: <i>Shirley Hultz</i> DIRECTOR DATE: BS PRINTED BY: BS PORT ADDRESS: 1 SITCUM WAY TACOMA, WA 98401		CHECKER: BS AUG 4, 2021							
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1 LEVEL 1 - DEMOLITION PLAN - HVAC
1/4" = 1'-0"

GENERAL NOTES:

1. SEE MECHANICAL GENERAL DEMOLITION NOTES SHEET M0.2.

KEYED NOTES:

- 1 REMOVE EXISTING CEILING ACCESS DOOR.

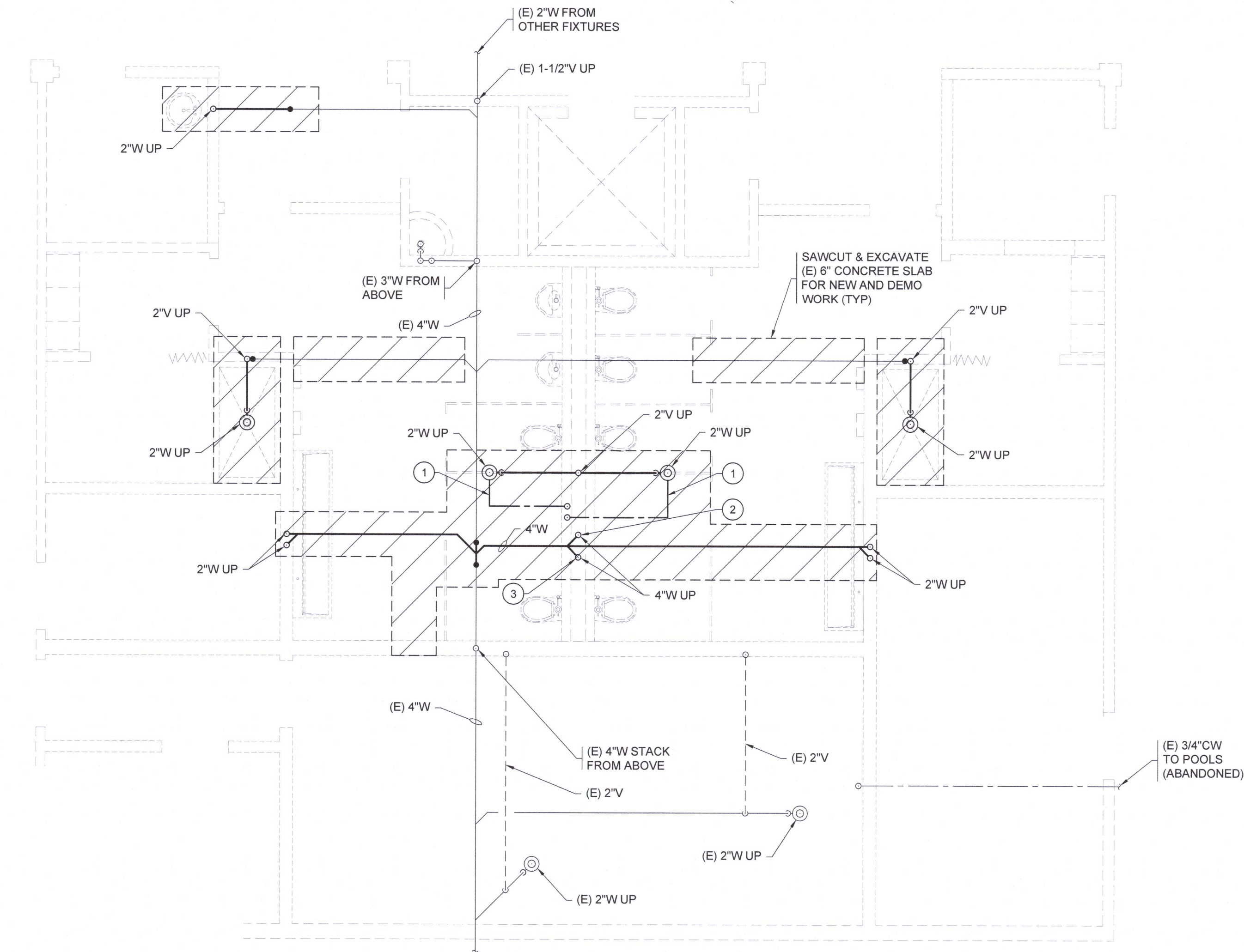
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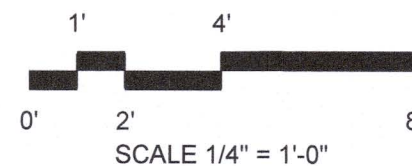
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	LEVEL 1 - DEMOLITION PLAN - HVAC				PRINTED BY: BS DATE: MT SECTION: 34		PORT ADDRESS: 1 SITCUM WAY TACOMA, WA 98401				
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1 FOUNDATION PLAN - PLUMBING
1/4" = 1'-0"



GENERAL NOTES:

1. SEE MECHANICAL GENERAL NOTES ON SHEET M0.1.
2. PRIOR TO BEGINNING ANY WORK CONTRACTOR SHALL VERIFY DEPTH OF SITE SEWER AND CONFIRM PIPING SLOPES IN ORDER TO PROVIDE PROPER WORKING SEWER SYSTEM.
3. FIXTURES SHOWN DASHED REPRESENT FIXTURES ON FLOOR ABOVE. SEE PLUMBING FLOOR PLAN FOR EXACT TYPE AND LOCATION.
4. REVIEW ALL DRAWINGS & SUBMITTALS AND VERIFY FIXTURE LOCATIONS PRIOR TO BEGINNING WORK.
5. FOR PIPE SIZES TO INDIVIDUAL PLUMBING FIXTURES SEE "PLUMBING FIXTURE SCHEDULE", SHEET M0.3.
6. REVIEW ALL DRAWINGS & SUBMITTALS & VERIFY LOCATION OF ALL FLOOR DRAINS AND FIXTURES PRIOR TO BEGINNING WORK. VERIFY EQUIPMENT LOCATIONS, DRAIN POINTS, AND RELATED DETAILS TO ENSURE THAT DRAINS CAN PROPERLY SERVE ITEMS INTENDED TWO ABOVE FLOOR DRAIN PIPING ROUTED THROUGH WALKWAY OR ACCESS PATHS.

KEYED NOTES:

- 1 1/2" TRAP PRIMER LINE TO FLOOR DRAIN/FLOOR RECEPTOR.
- 2 WASTE LAYOUT IS BASED ON HORIZONTAL CARRIERS AND WASTE MAIN ROUTED IN CHASE ABOVE FLOOR.
- 3 4" WASTE FROM LEVEL 2 FIXTURES.

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ADMINISTRATION BUILDING PLUMBING
REPAIRS

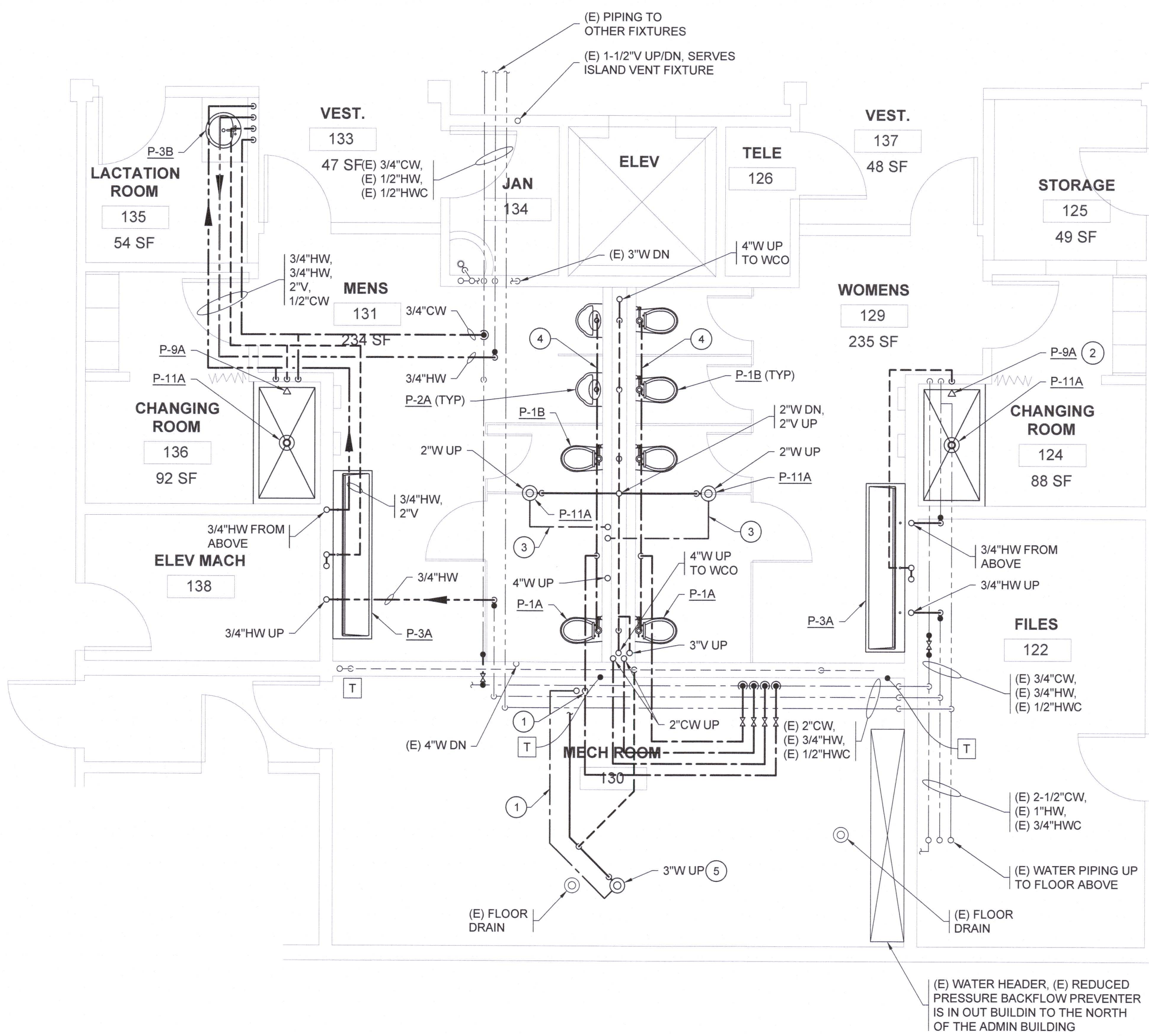
FOUNDATION PLAN - PLUMBING

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M2.1
18 OF 33

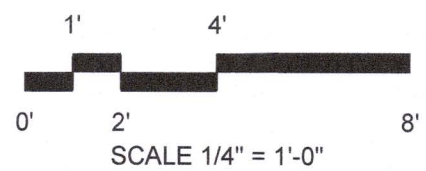
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DATE: MT
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PARCEL: 42

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① LEVEL 1 PLAN - PLUMBING
1/4" = 1'-0"



GENERAL NOTES:

1. SEE MECHANICAL GENERAL NOTES ON SHEET M0.1.
2. FOR PIPING SIZES TO INDIVIDUAL PLUMBING FIXTURES SEE "PLUMBING FIXTURE SCHEDULE", SHEET M0.3.
3. ALL ISOLATION VALVES SHALL BE ACCESSIBLE. PLUMBING CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO INSURE VALVE IS ACCESSIBLE.
4. OFFSET VTR'S AND PIPING AS REQUIRED TO AVOID DUCTWORK, STRUCTURAL AND OTHER OBSTRUCTIONS.
5. AT RESTROOMS PROVIDE COLD WATER HEADER FULL LENGTH OF PLUMBING CHASE SAME SIZE AS BRANCH COLD WATER LINE SHOWN SERVING RESTROOMS (UNO).
6. PROVIDE WATER HAMMER ARRESTORS ON ALL COLD WATER LINES SERVING FIXTURES WITH FLUSH VALVES. LOCATE UPSTREAM OF LAST FIXTURE ON LINE, AT EACH FIXTURE GROUP. PROVIDE SHUT-OFF VALVE AND ACCESS DOOR. PDI SIZE SHALL BE AS FOLLOWS:

NO. OF FIXTURES	PDI SIZE
W/ FLUSH VALVES	
1-2	A
3-5	B
6 & MORE	C

KEYED NOTES:

- ① 1/2" CW DN TO TRAP PRIMER VALVE, SEE DETAIL 4 SHEET M3.3. TRAP PRIMER VALVE SHALL BE SET IN MECHANICAL ROOM, WITH CONNECTING DISCHARGE PIPING ROUTED IN CHASE, AND ROUTED TO DRAINS AS SHOWN ON SHEET M2.1.
- ② CONNECT EXISTING TO HW/CW PIPING. REVISE ROUGH-IN AS REQUIRED.
- ③ 1/2" TRAP PRIMER LINE TO FLOOR DRAIN/FLOOR RECEPTOR.
- ④ 2"CW HEADER IN CHASE.
- ⑤ LOCATION SHOWN IS PRELIMINARY. THE CEILING SPACE IN LEVEL 1 IS CONGESTED, AND MAY HAVE TO SHIFT TO AVOID EXISTING PIPING AND SIMILAR CONFLICTS. FIELD LOCATE AFTER REVIEWING SITE CONDITIONS AND CONFIRM LOCATION WITH PORT OF TACOMA ENGINEERING PROJECT MANAGER.

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MARK: REVISION:
BY: APPR: DATE:

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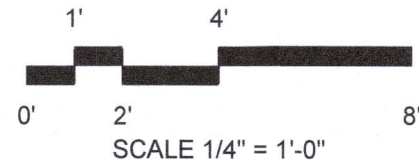
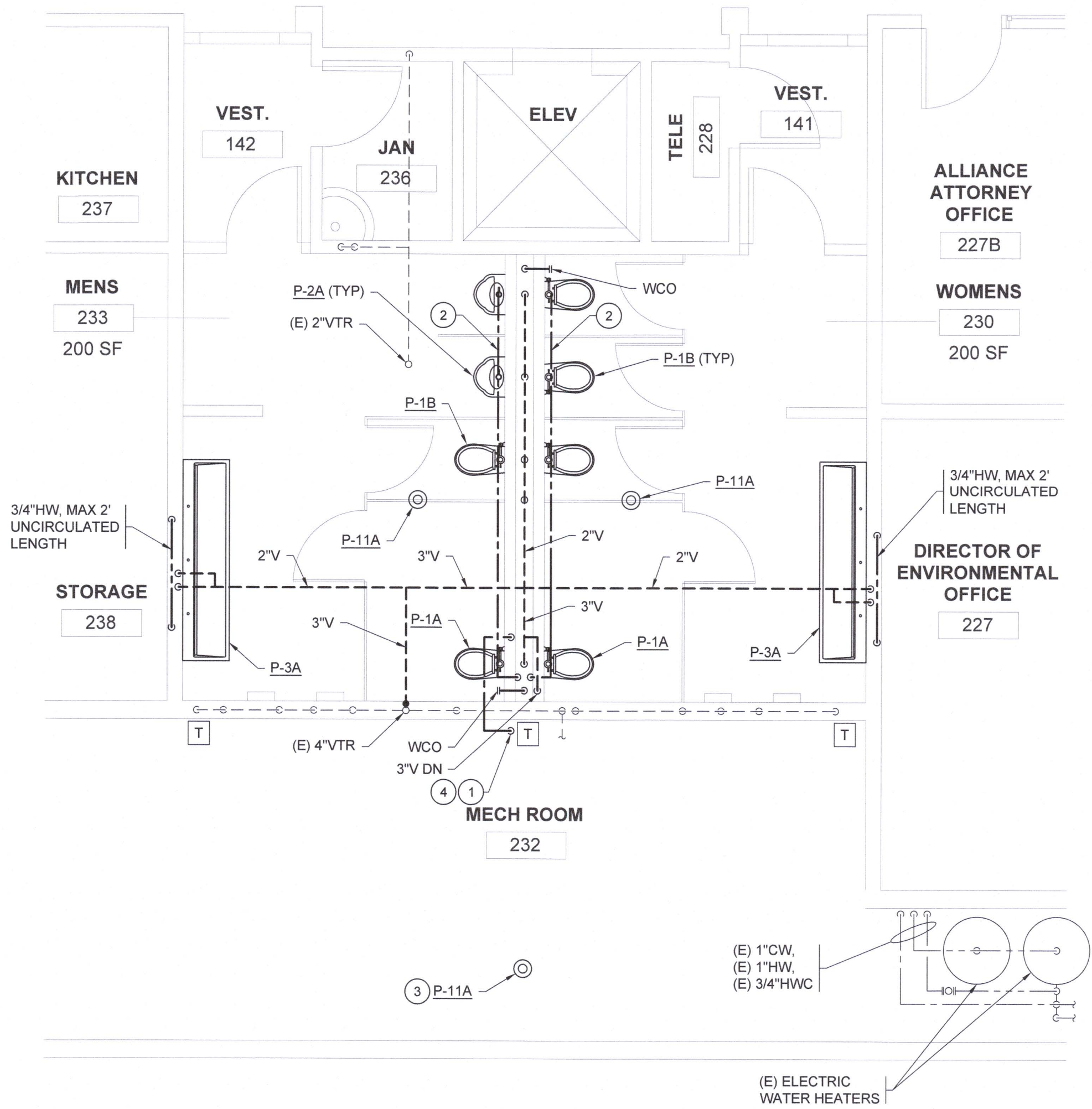
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ADMINISTRATION BUILDING PLUMBING REPAIRS	TOWNSHIP: 21	RANGE: 03	SECTION: 34
LEVEL 1 PLAN - PLUMBING	DATE-HRZ: WA83-SF	VERT:	
	PARCEL: 42	DRAWING SCALE: AS-INDICATED	

6666
M3.1
19 OF 33
CONT/CONS: 071547
M. ID: 101339.02
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1 LEVEL 2 PLAN - PLUMBING
1/4" = 1'-0"



GENERAL NOTES:

- SEE MECHANICAL GENERAL NOTES ON SHEET M0.1.
- FOR PIPING SIZES TO INDIVIDUAL PLUMBING FIXTURES SEE "PLUMBING FIXTURE SCHEDULE", SHEET M0.3.
- ALL ISOLATION VALVES SHALL BE ACCESSIBLE. PLUMBING CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO INSURE VALVE IS ACCESSIBLE.
- OFFSET VTR'S AND PIPING AS REQUIRED TO AVOID DUCTWORK, STRUCTURAL AND OTHER OBSTRUCTIONS.
- AT RESTROOMS PROVIDE COLD WATER HEADER FULL LENGTH OF PLUMBING CHASE SAME SIZE AS BRANCH COLD WATER LINE SHOWN SERVING RESTROOMS (UNO).
- PROVIDE WATER HAMMER ARRESTORS ON ALL COLD WATER LINES SERVING FIXTURES WITH FLUSH VALVES. LOCATE UPSTREAM OF LAST FIXTURE ON LINE, AT EACH FIXTURE GROUP. PROVIDE SHUT-OFF VALVE AND ACCESS DOOR. PDI SIZE SHALL BE AS FOLLOWS:

NO. OF FIXTURES W/ FLUSH VALVES	PDI SIZE
1-2	A
3-5	B
6 & MORE	C

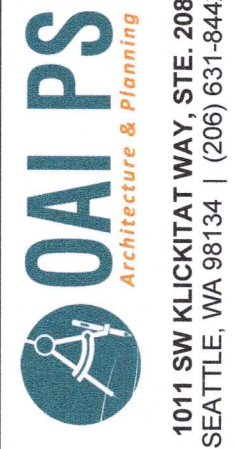
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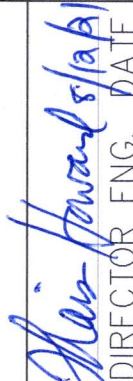
- 1/2" CW DN TO TRAP PRIMER VALVE, SEE DETAIL 4 SHEET M3.3. TRAP PRIMER VALVE SHALL BE SET IN MECHANICAL ROOM 232, WITH CONNECTING DISCHARGE PIPING ROUTED IN CHASE, AND ROUTED TO DRAINS AS SHOWN ON SHEET M3.1.
- 2" CW HEADER IN CHASE.
- LOCATION SHOWN IS PRELIMINARY. THE CEILING SPACE IN LEVEL 1 IS CONGESTED, AND MAY HAVE TO SHIFT TO AVOID EXISTING PIPING AND SIMILAR CONFLICTS. FIELD LOCATE AFTER REVIEWING SITE CONDITIONS AND CONFIRM LOCATION WITH PORT OF TACOMA ENGINEERING PROJECT MANAGER.
- TRAP PRIMER ALSO SERVES NEW MECH ROOM FLOOR DRAIN. PROVIDE NEW CORE DRILL FOR 1/2" TRAP PRIMER LINE.

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ADMINISTRATION BUILDING PLUMBING
REPAIRS

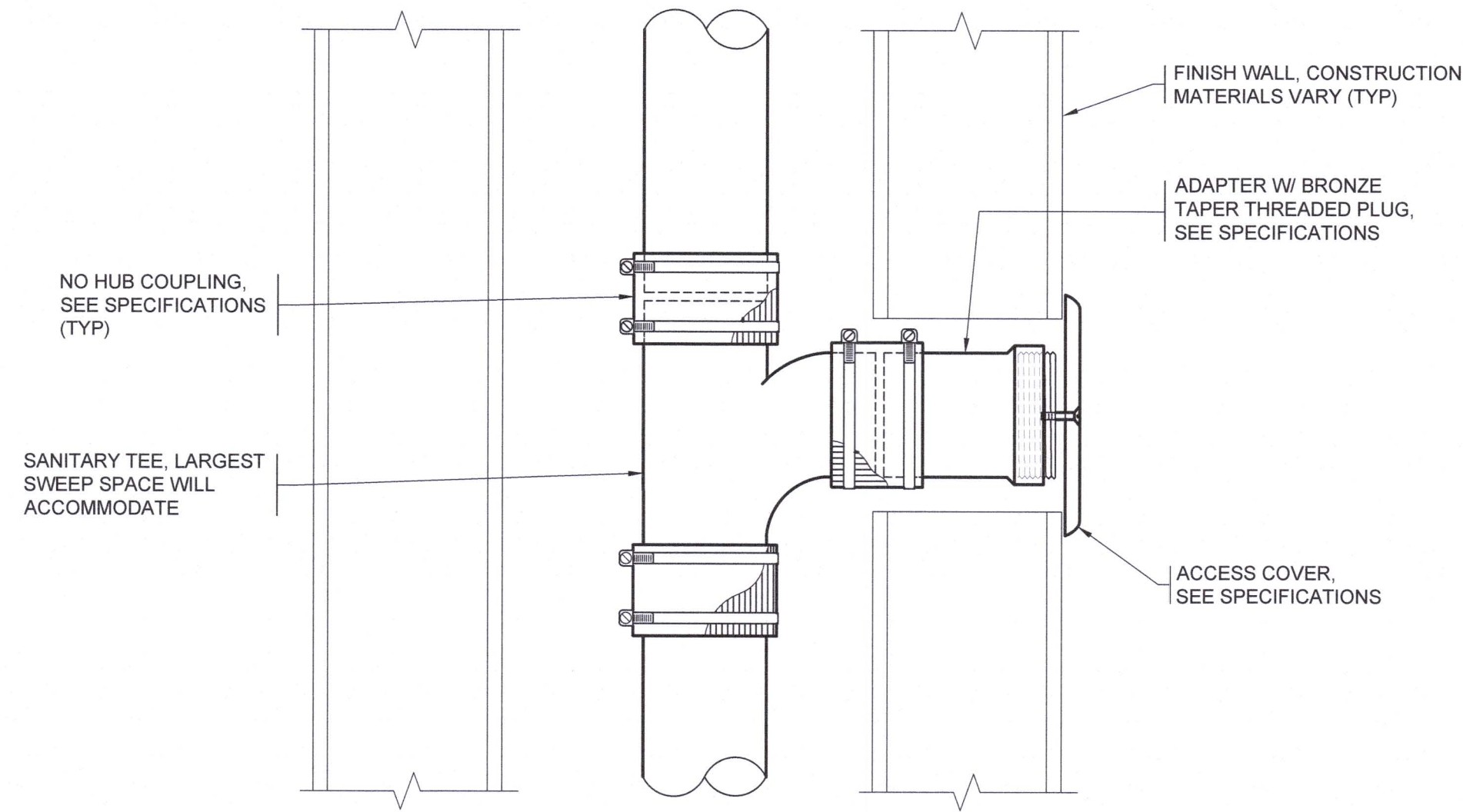
LEVEL 2 PLAN - PLUMBING

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DAT-HRZ: WA83-SF	VERT:	
PARCEL: 42	DRAWING SCALE: AS-INDICATED	

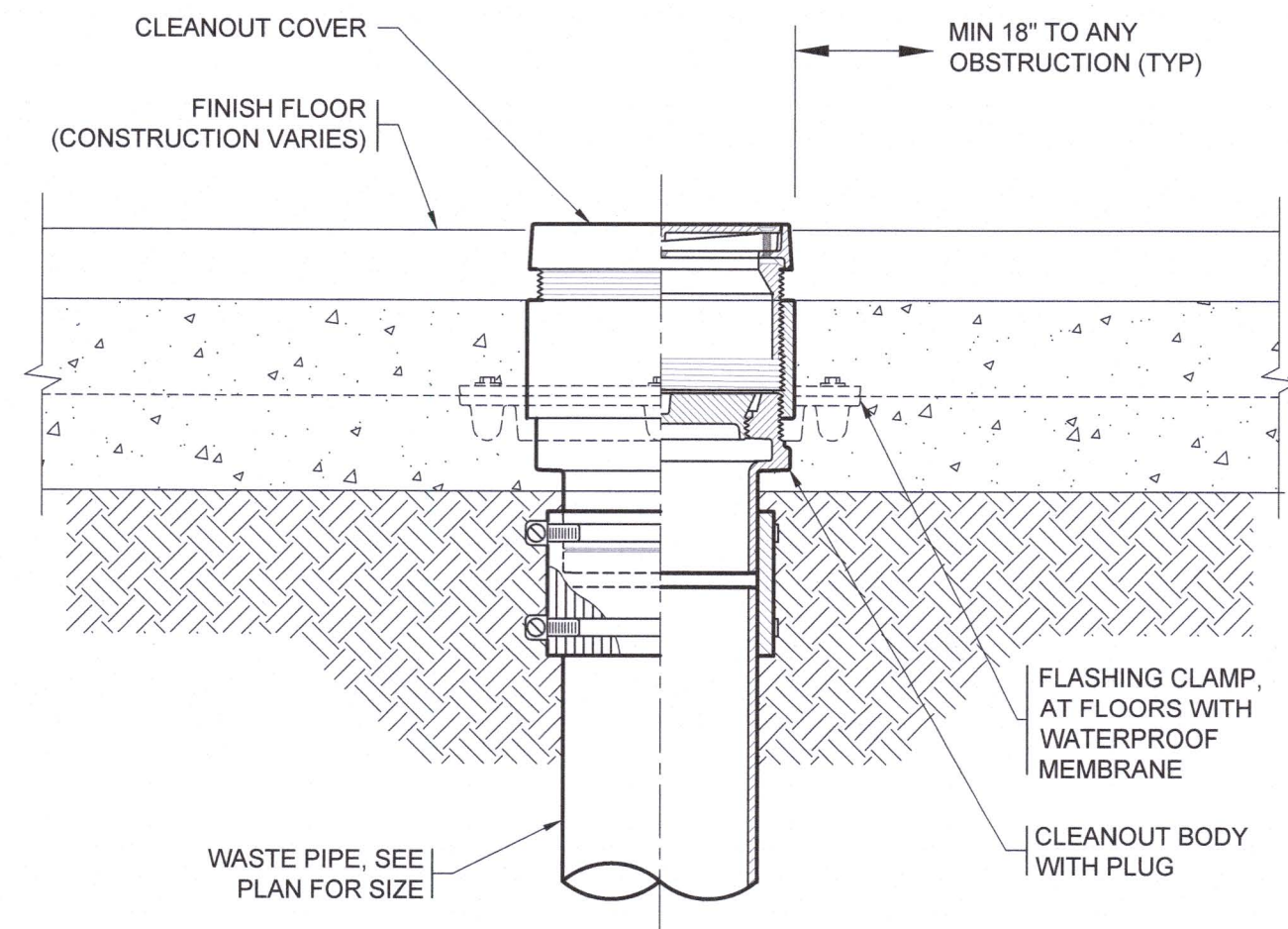
6666
M3.2
20 OF 33

CONT/CONS: 071547
M. ID: 101339.02
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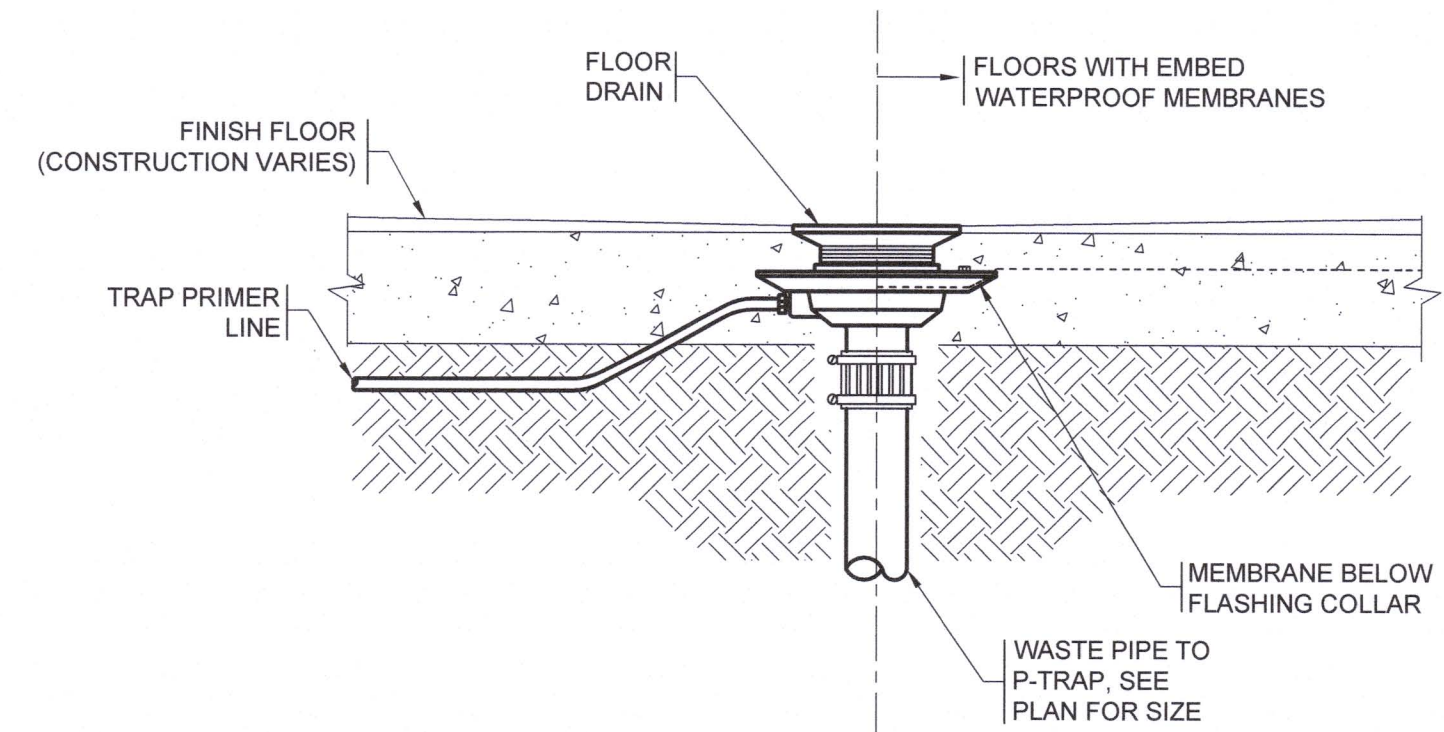
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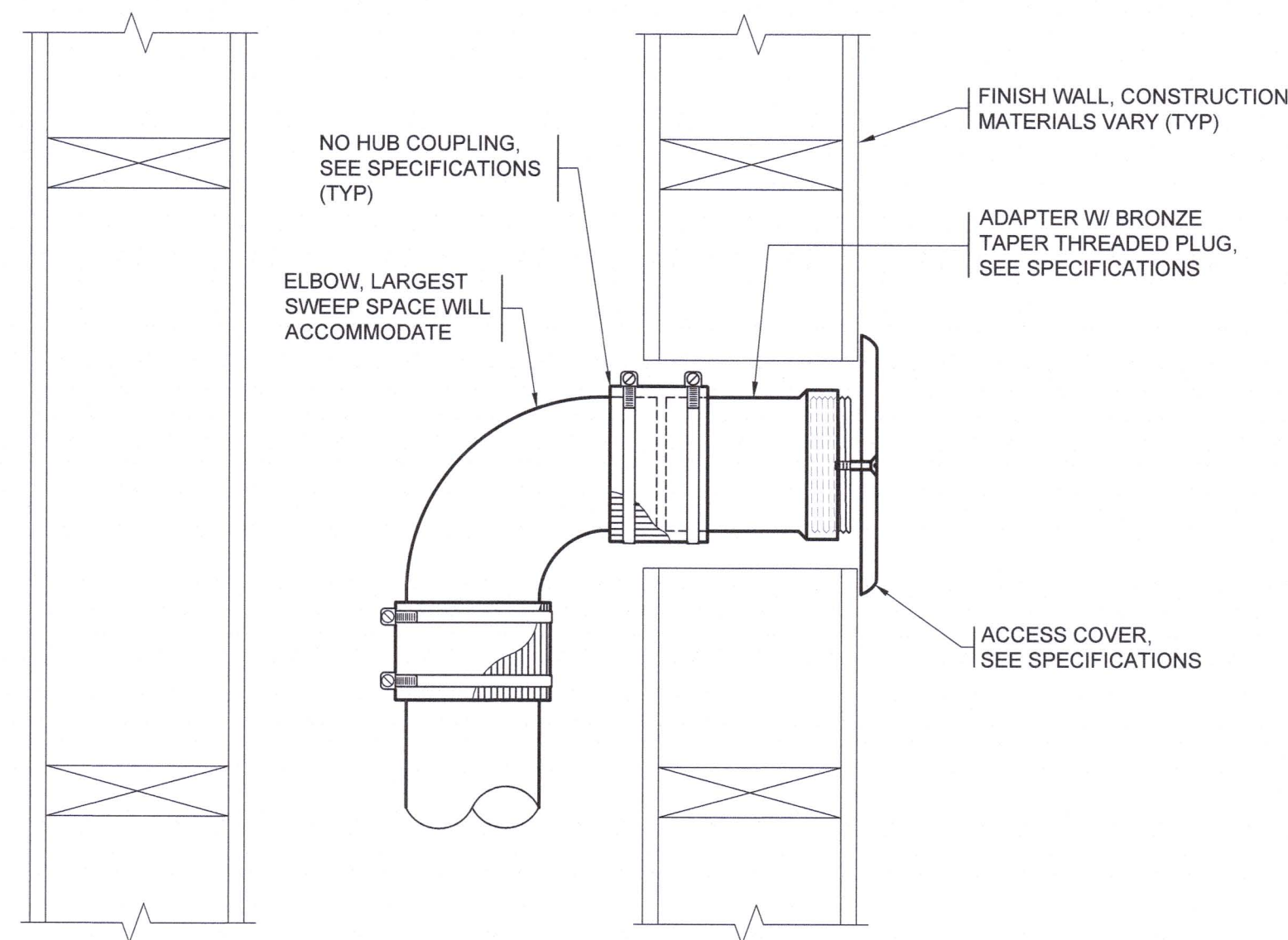
WALL CLEANOUT-W/ TEE IN CHASE 3
NTS M3.3



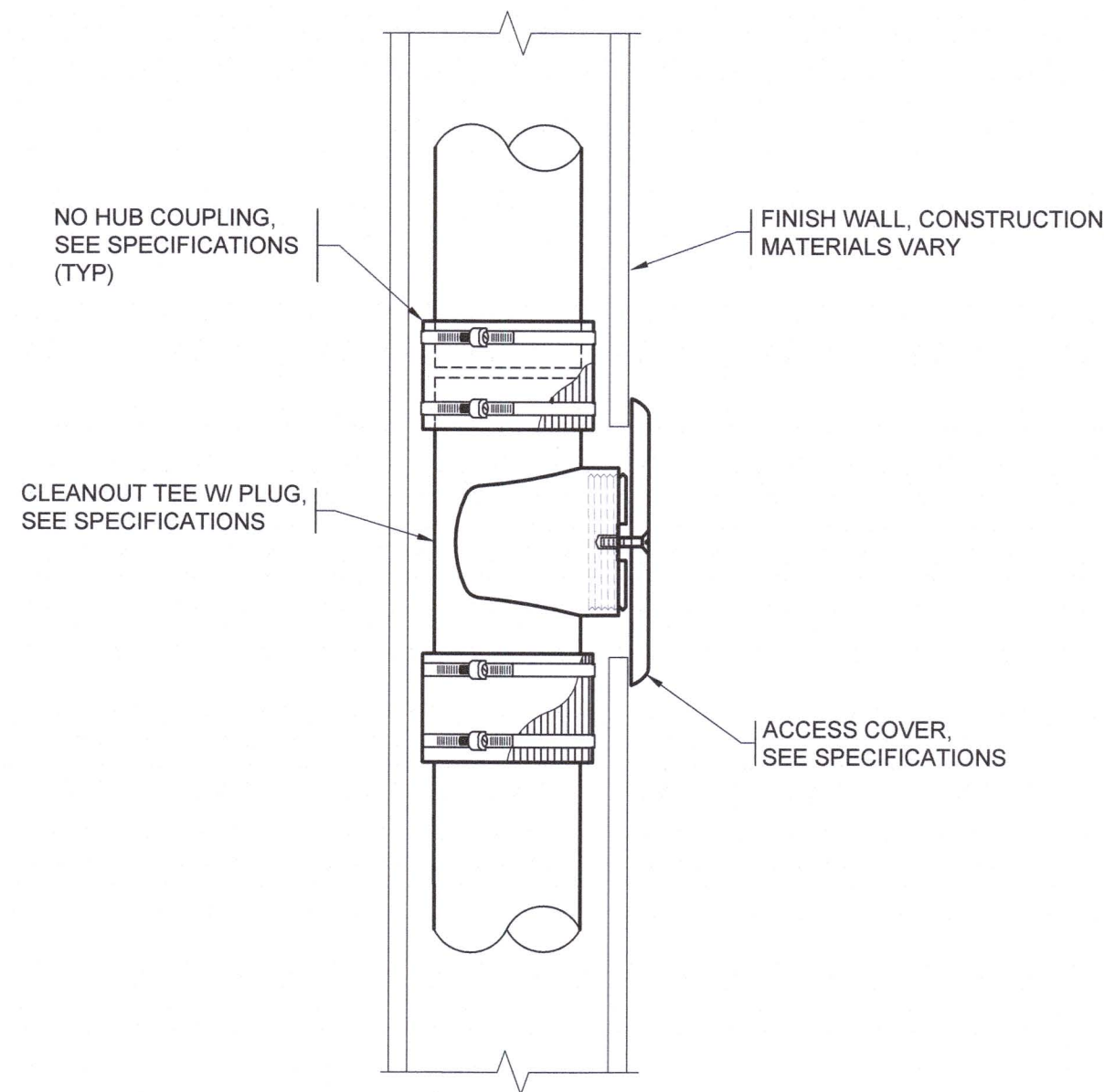
FLOOR CLEANOUT (FCO) DETAIL 2
NTS M3.3



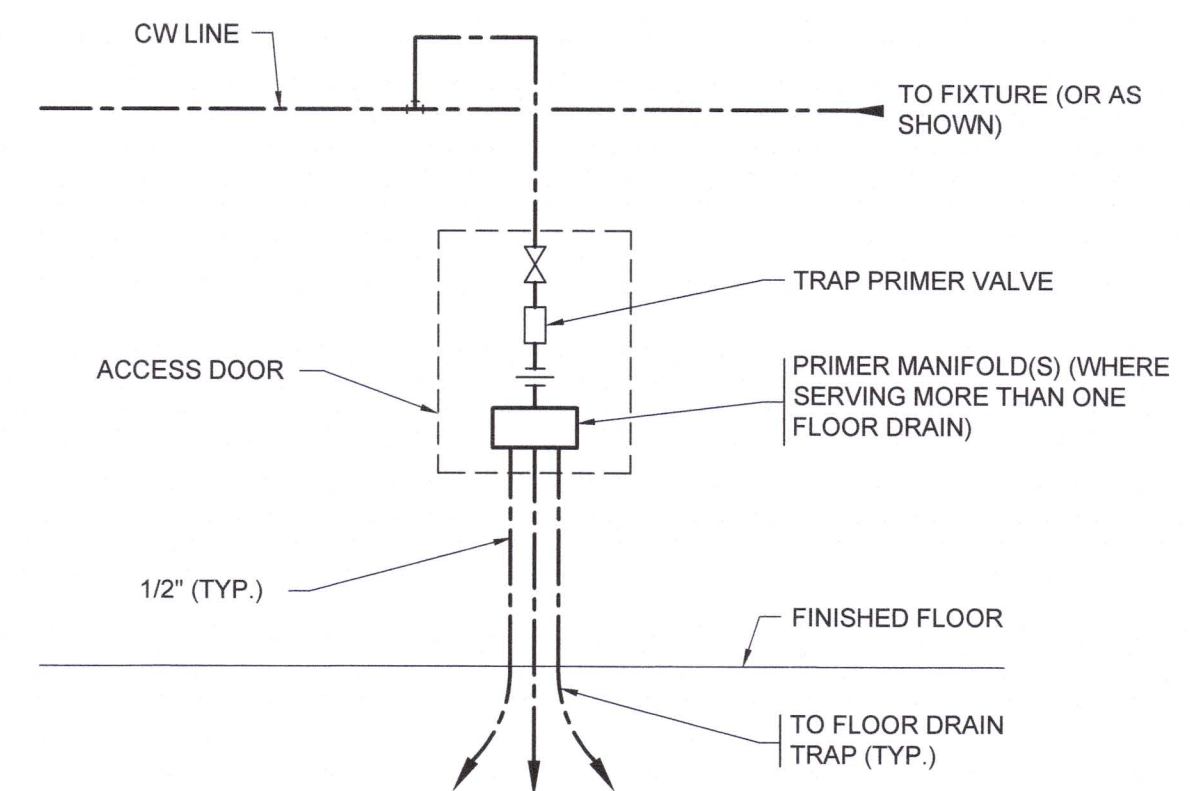
FLOOR DRAIN DETAIL 1
NTS M3.3



WALL CLEANOUT-W/ ELBOW 6
NTS M3.3



WALL CLEANOUT-IN WALL 5
NTS M3.3



TRAP PRIMER DETAIL 4
NTS M3.3

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6666 M3.3
21 OF 33
CONT/CONS: 071547
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ADMINISTRATION BUILDING PLUMBING REPAIRS
PLUMBING DETAILS

TOWNSHIP: 21 RANGE: 03 SECTION: 34
DATE-HRZ: WA83-SF VERT: 42
DRAWING SCALE: AS-INDICATED

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M3.3
21 OF 33
CONT/CONS: 071547
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MICHAEL LEO HANSEN
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
SIGNED
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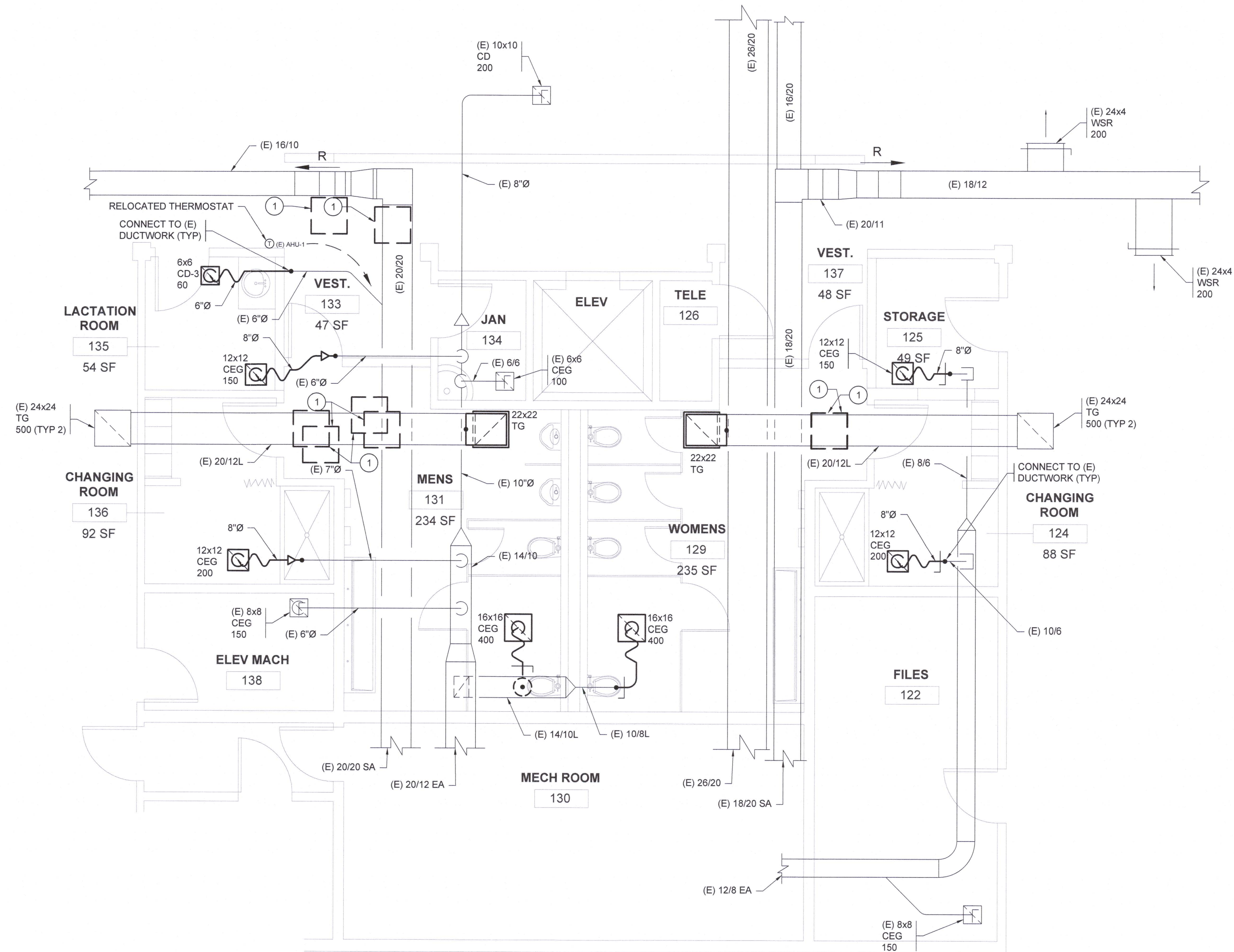
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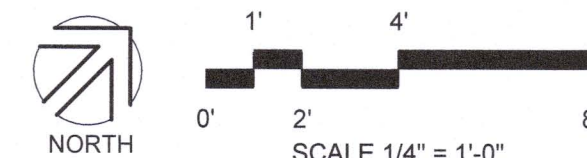
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① LEVEL 1 PLAN - HVAC
1/4" = 1'-0"

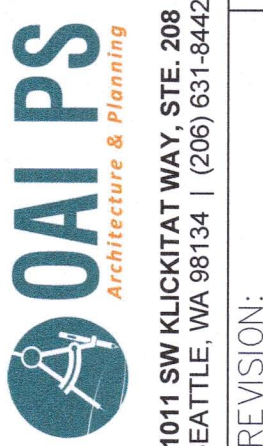
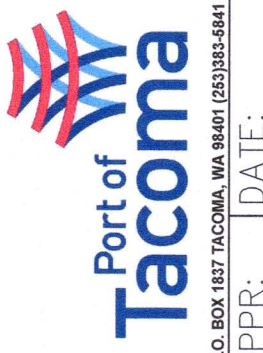


GENERAL NOTES:

- SEE MECHANICAL GENERAL NOTES SHEET M0.2.
- PROVIDE TRANSITIONS AT DUCT CONNECTIONS TO ALL HVAC UNITS, AIR INLETS/OUTLETS FANS & OTHER EQUIPMENT TO MATCH UNIT CONNECTIONS. TRANSITIONS SHALL BE LINED WHERE CONNECTING DUCTS ARE LINED.
- RESTROOM EXHAUST & TRANSFER GRILLES SHALL BE INSTALLED TO BE INLINE W/ EACH OTHER.

KEYED NOTES:

- PROVIDE NEW CEILING ACCESS DOOR (24"x24") IN SIMILAR LOCATION TO EXISTING.



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ADMINISTRATION BUILDING PLUMBING REPAIRS

LEVEL 1 PLAN - HVAC

6666
M4.1
22 OF 33

CONT/CONS:	071547
M. ID:	101339.02
PHASE:	BID SET

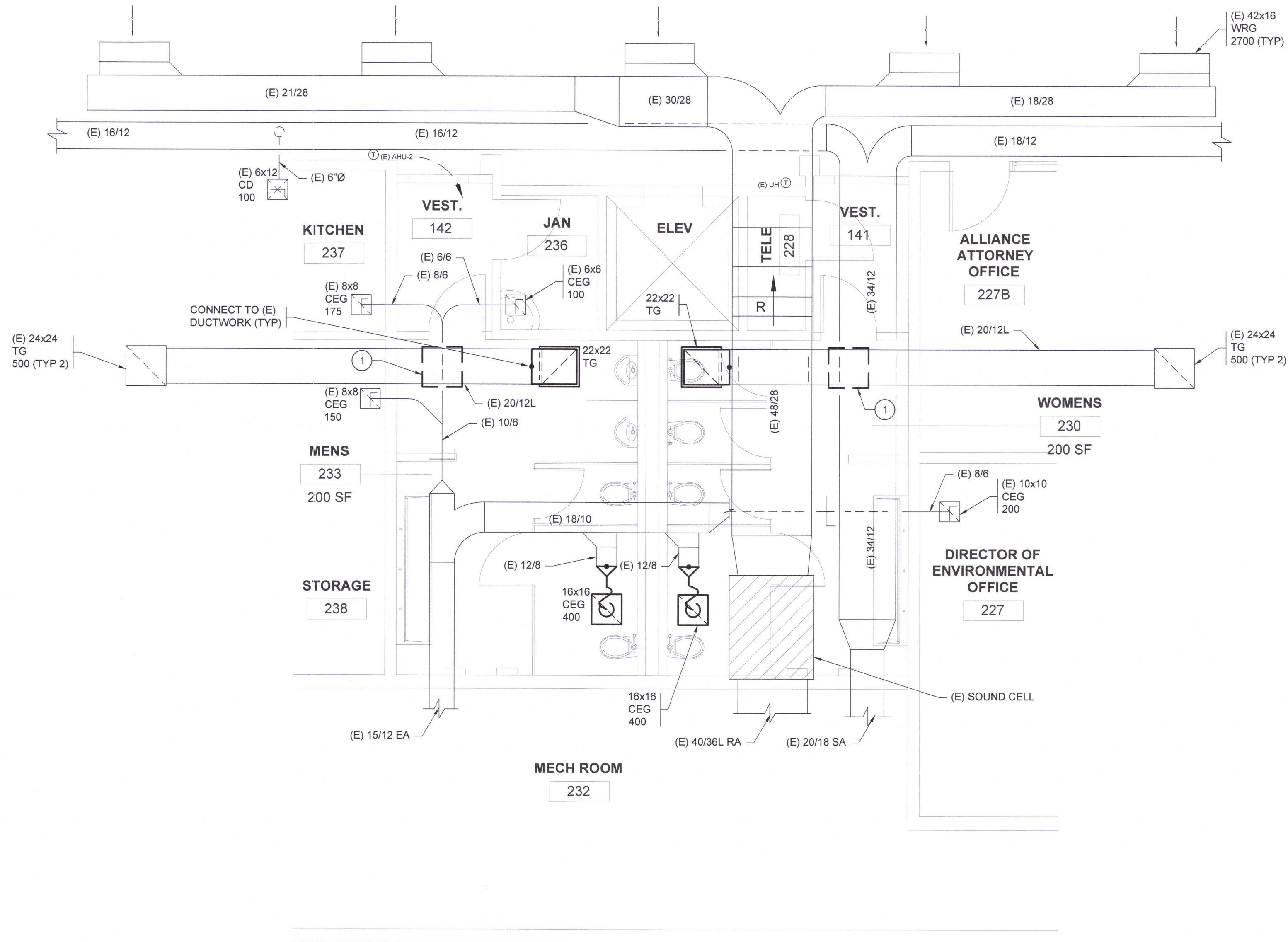
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PARCEL:	42	DRAWING SCALE:	AS-INDICATED		

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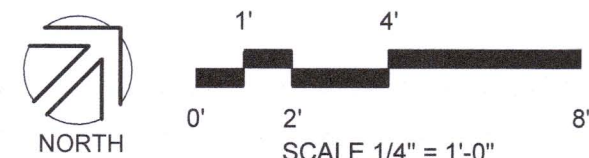
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1 LEVEL 2 PLAN - HVAC
1/4" = 1'-0"



GENERAL NOTES:

1. SEE MECHANICAL GENERAL NOTES SHEET M0.2.
2. PROVIDE TRANSITIONS AT DUCT CONNECTIONS TO ALL HVAC UNITS, AIR INLETS/OUTLETS FANS & OTHER EQUIPMENT TO MATCH UNIT CONNECTIONS. TRANSITIONS SHALL BE LINED WHERE CONNECTING DUCTS ARE LINED.
3. RESTROOM EXHAUST & TRANSFER GRILLES SHALL BE INSTALLED TO BE INLINE W/ EACH OTHER.

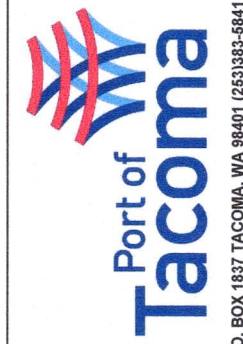
KEYED NOTES:

- 1 PROVIDE NEW CEILING ACCESS DOOR (24"x24") IN SIMILAR LOCATION TO EXISTING.

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Michael Leo Jones
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REPAIRS

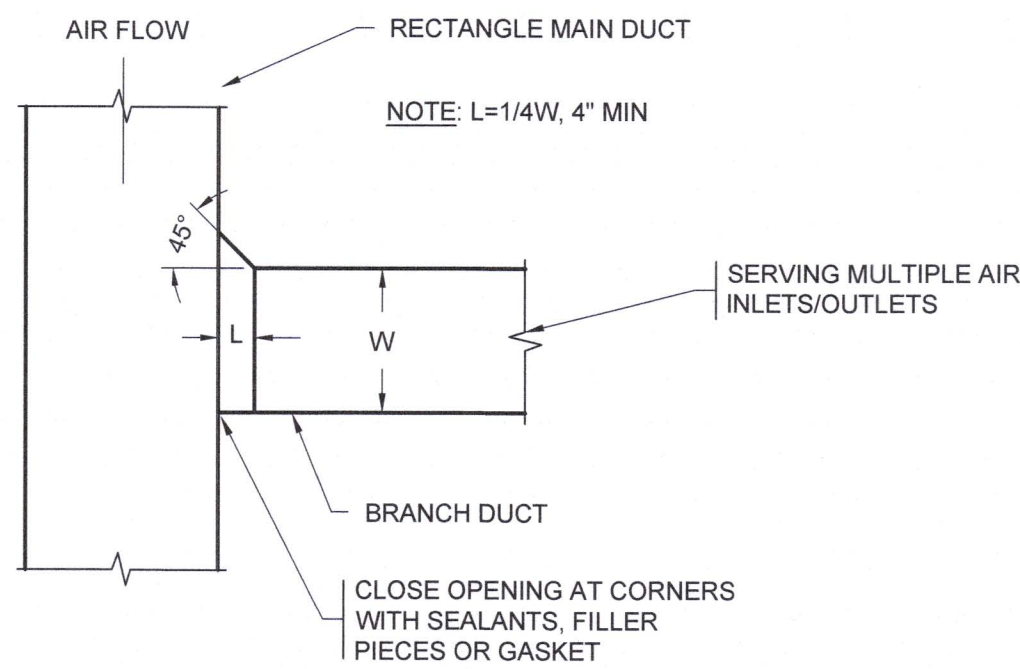
LEVEL 2 PLAN - HVAC

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DATE-HRZ: WA83-SF VERT:
PARCEL: 42 DRAWING SCALE: AS-INDICATED

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M4.2
23 OF 33

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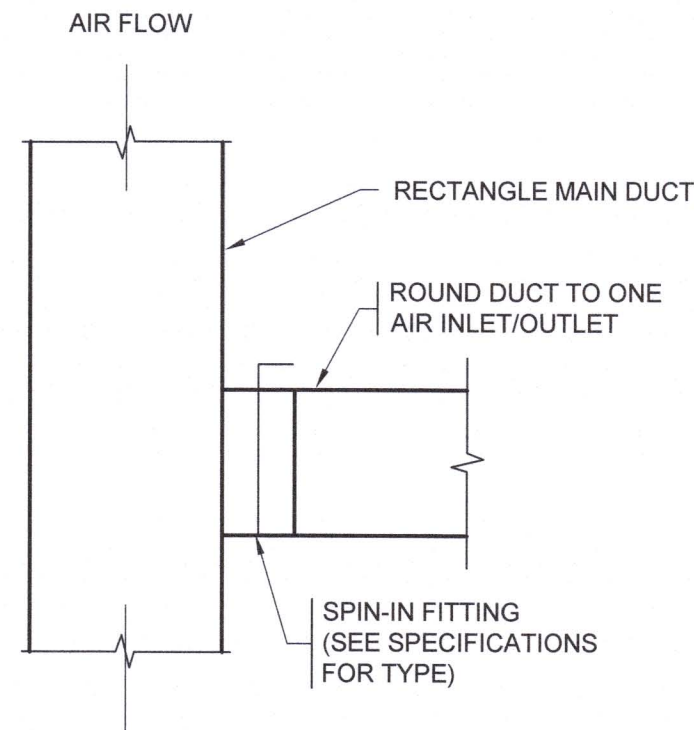
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RECT-TO-RECT BRANCH DUCT CONNECTION

NTS

3
M4.3



SERVING ONE INLET/OUTLET

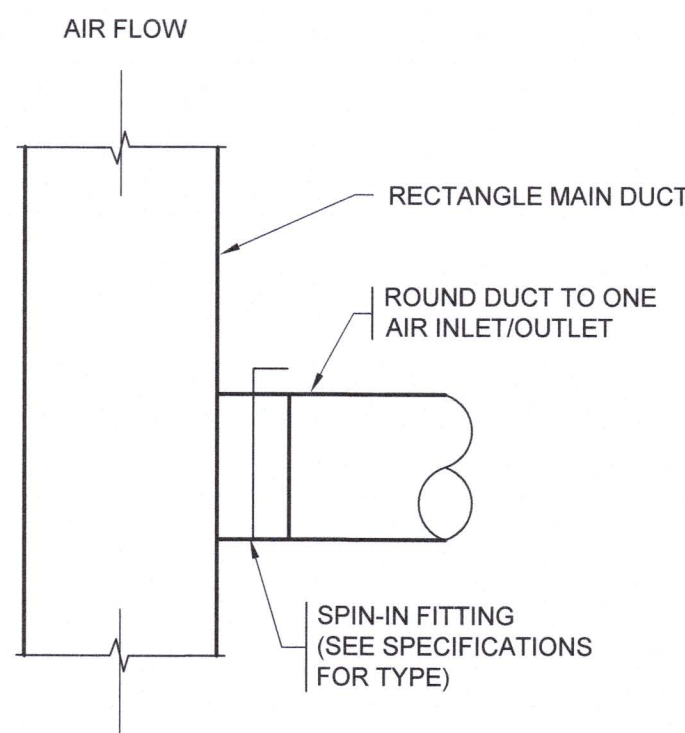
NOTE:

WHERE MAIN DUCT DOES NOT HAVE ADEQUATE HEIGHT TO ACCEPT ROUND DUCT, PROVIDE RECTANGULAR CONNECTION, WITH SAME FREE AREA AS ROUND DUCT, AND TRANSITION TO ROUND

RECT-TO-RECT BRANCH DUCT CONNECTION

NTS

2
M4.3



SERVING ONE INLET/OUTLET

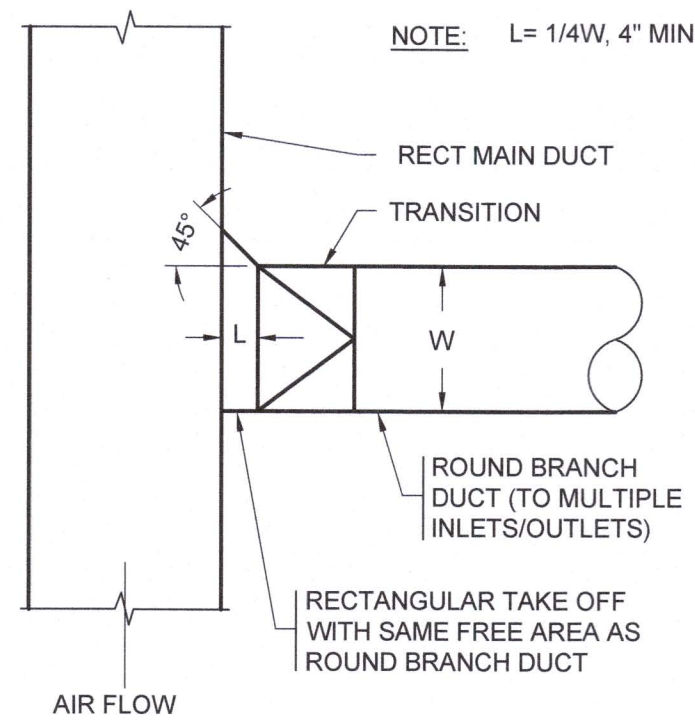
NOTE:

WHERE MAIN DUCT DOES NOT HAVE ADEQUATE HEIGHT TO ACCEPT ROUND DUCT, PROVIDE RECTANGULAR CONNECTION, WITH SAME FREE AREA AS ROUND DUCT, AND TRANSITION TO ROUND

RECT-TO-ROUND BRANCH DUCT CONNECTION

NTS

6
M4.3

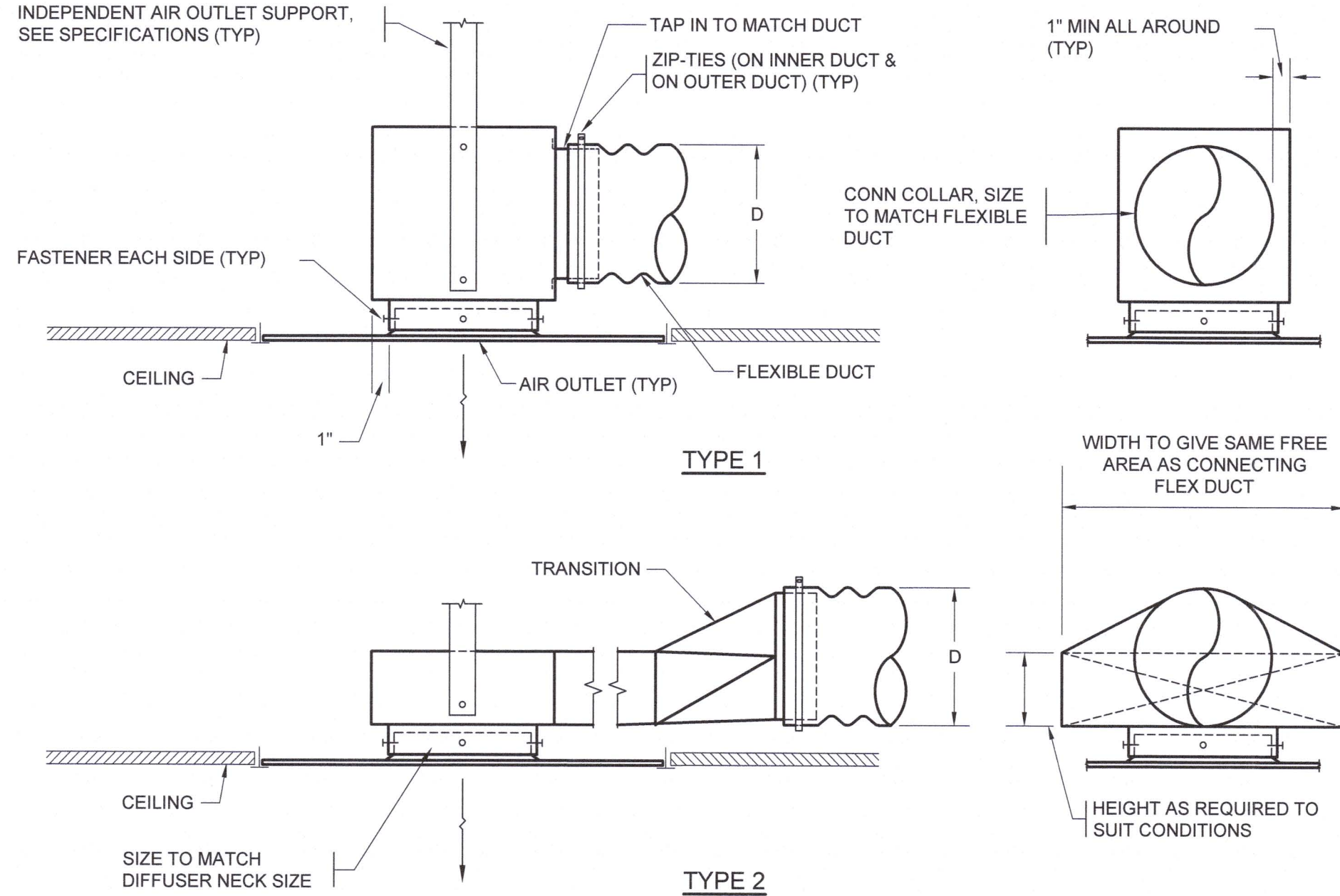


SERVING MULTIPLE INLET/OUTLET

RECT-TO-ROUND BRANCH DUCT CONNECTION

NTS

5
M4.3

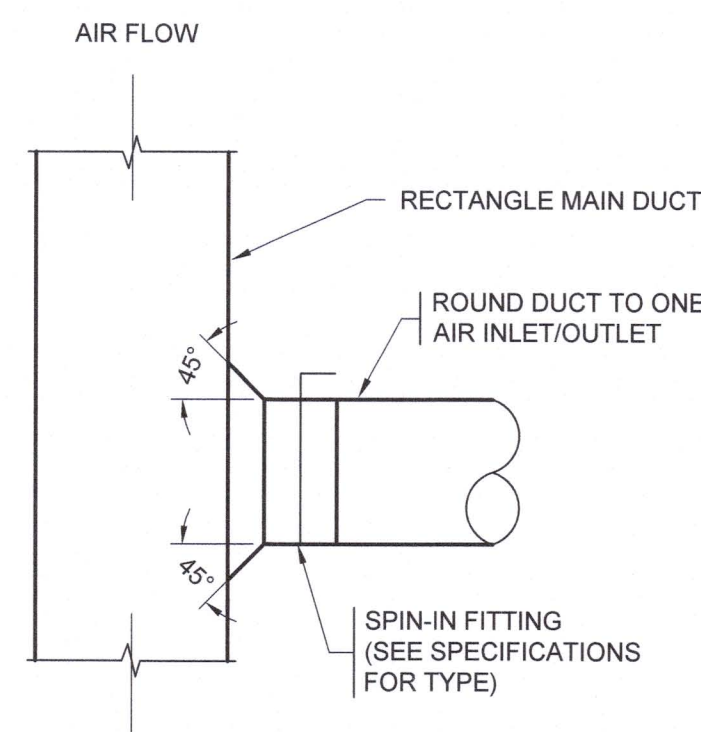


- NOTES:
1. PROVIDE TYPE 1 UNLESS BUILDING CONDITIONS REQUIRE LOWER PROFILE - THEN USE TYPE 2.
 2. CONSTRUCT PLENUM BOXES OF MIN. 26 GA. GALV. STEEL.
 3. NOT ALLOWED AT TRANSFER DUCTS.
 4. LINE PLENUM & DUCT TO AIR OUTLET WHERE SO NOTED ON PLANS OR IN SPECIFICATIONS.
 5. CEILING TYPE & AIR OUTLET FRAME STYLE MAY VARY FROM THAT DEPICTED.
 6. NOT ALL SUPPORTS ARE SHOWN FOR CLARITY.
 7. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

TIGHT CONDITION - FLEX DUCT AIR OUTLET CONNECTION

NTS

1
M4.3



BRANCH SERVING MULTIPLE AIR INLETS/OUTLETS

NOTE:

WHERE MAIN DUCT DOES NOT HAVE ADEQUATE HEIGHT TO ACCEPT ROUND DUCT, PROVIDE RECTANGULAR CONNECTION, WITH SAME FREE AREA AS ROUND DUCT, AND TRANSITION TO ROUND

RECT-TO-ROUND BRANCH DUCT CONNECTION

NTS

4
M4.3

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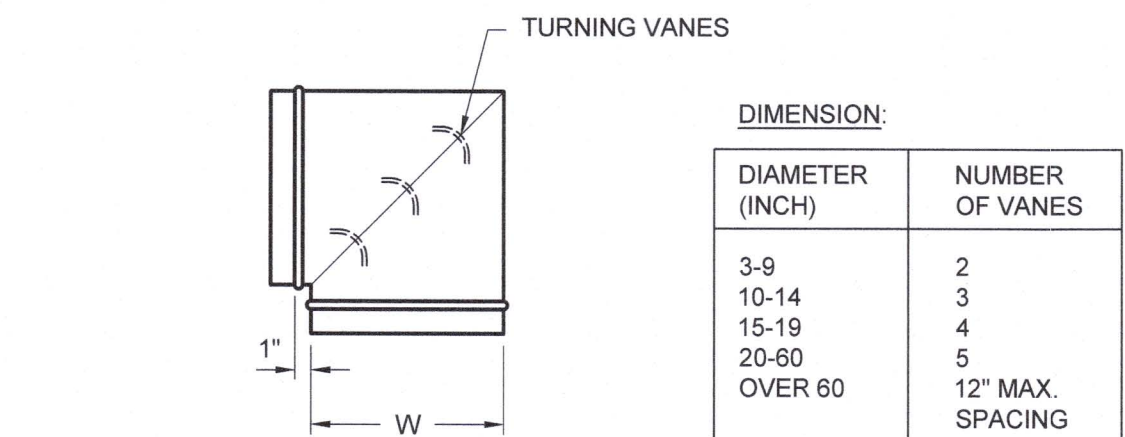
MICHAEL LEO TAYLOR
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
SIGNED
08-04-21

APPROVED: *Chris M. Taylor*
DIRECTOR ENG. DATE: 8/24/21
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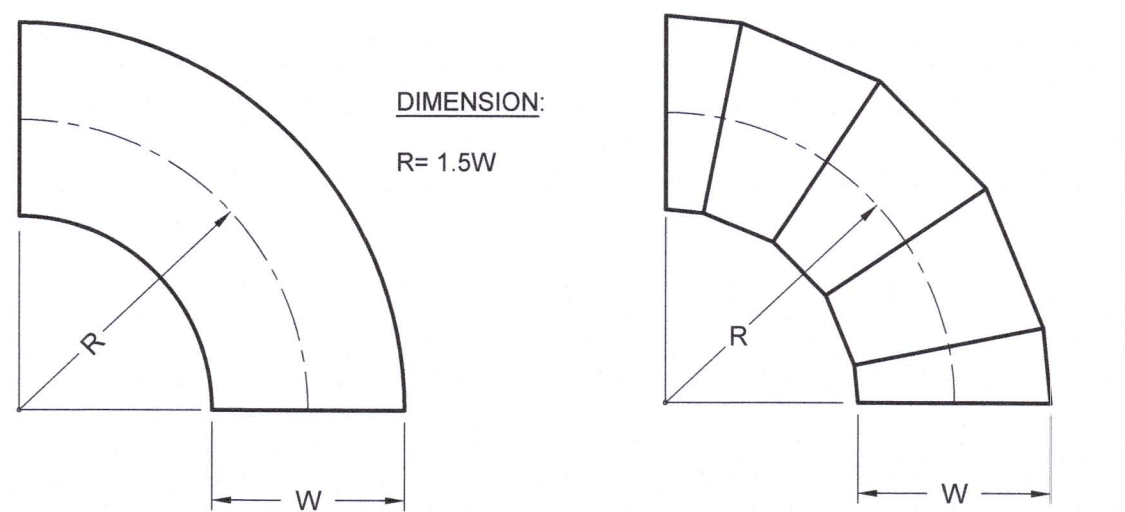
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REPAIRS
HVAC DETAILS
RANGE: 03 SECTION: 34
TOWNSHIP: 21
DATE-HRZ: WA83-SF
PARCEL: 42
DRAWING SCALE: AS-INDICATED

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M4.3
24 OF 33
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MITERED 90° ELBOW



DIE-STAMPED ELBOW

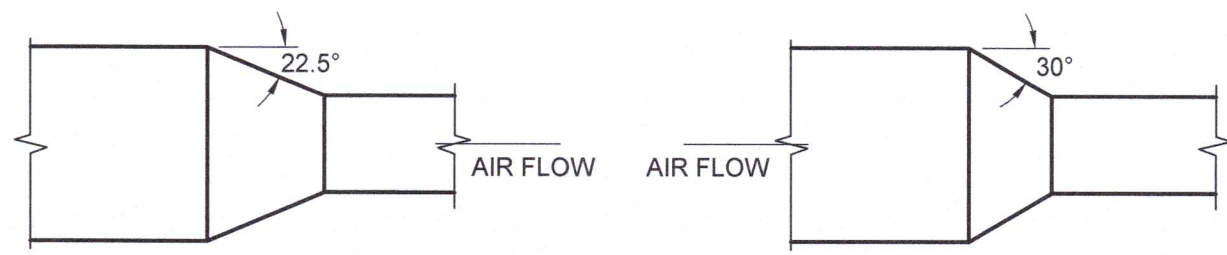
FABRICATED ELBOW

ELBOWS - ROUND

NTS

9

M4.4



CONCENTRIC TRANSITION (DIVERGING)

CONCENTRIC TRANSITION (CONVERGING)



ECCENTRIC TRANSITION

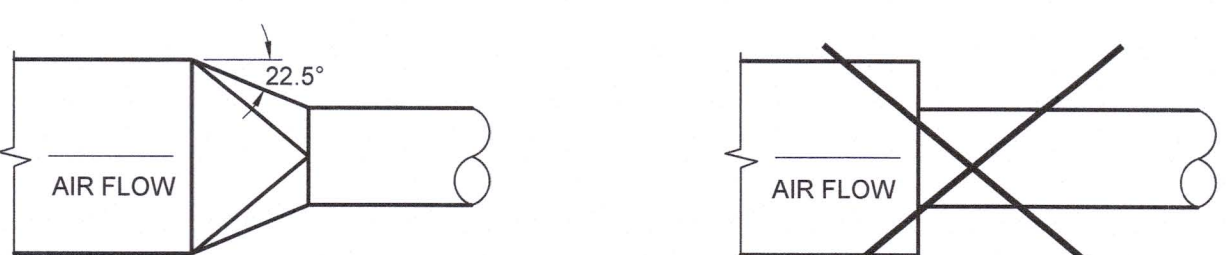
STRAIGHT TAP NOT ALLOWED

RECT-TO-RECT TRANSITIONS

NTS

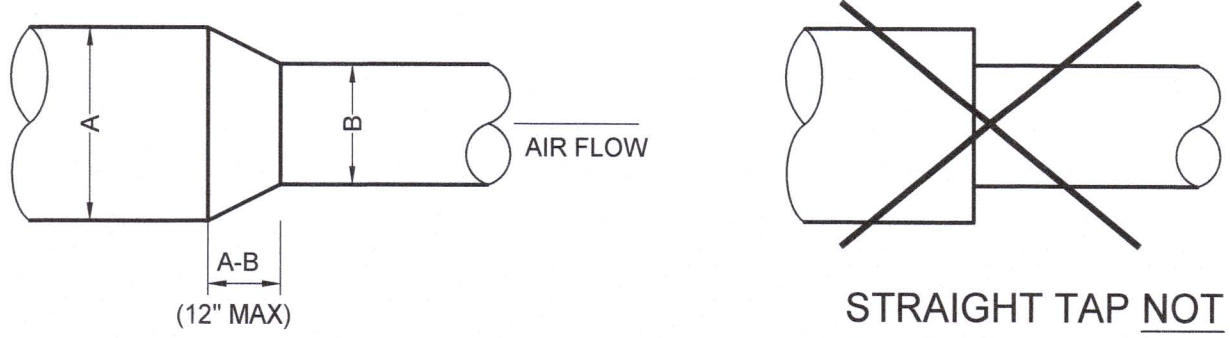
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M4.4



RECT - TO ROUND

STRAIGHT TAP NOT ALLOWED



ROUND - TO ROUND

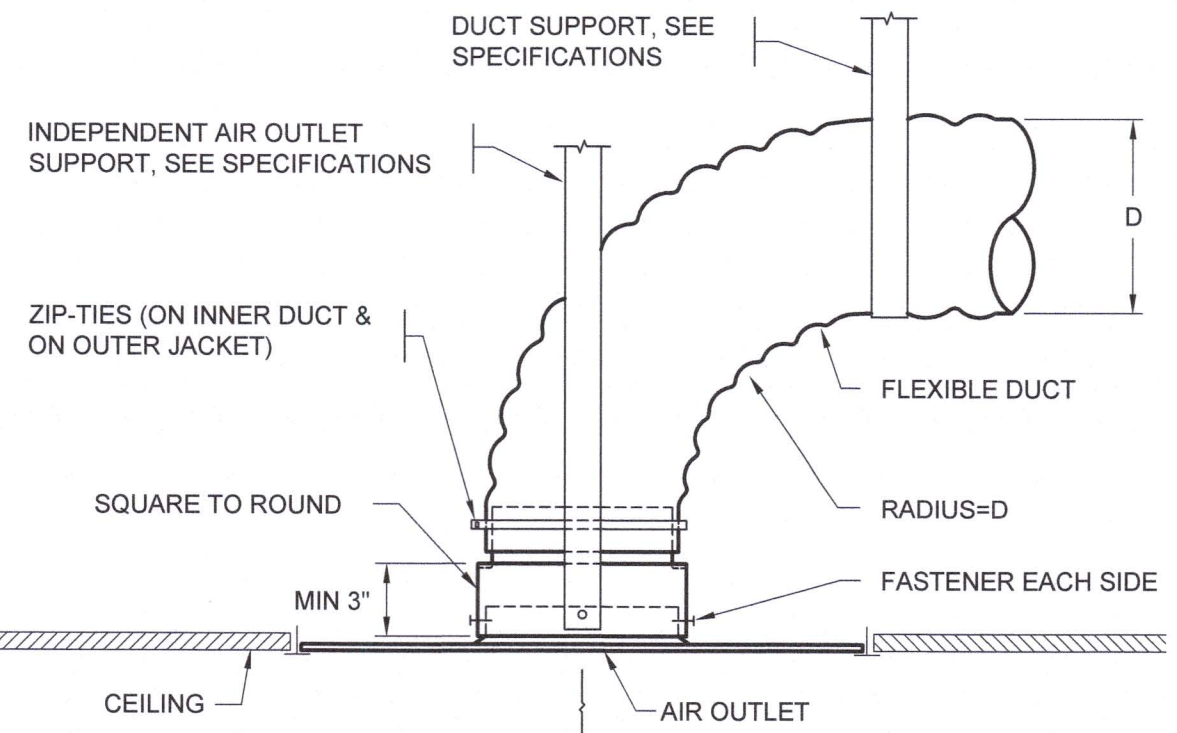
STRAIGHT TAP NOT ALLOWED

ROUND TRANSITIONS

NTS

7

M4.4



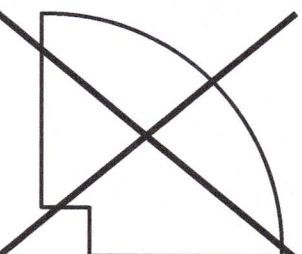
- NOTES:
1. USE WHERE ADEQUATE SPACE IS AVAILABLE FOR FLEX DUCT RADIUS, AND WHERE FLEX DUCT IS SHOWN ON PLANS TO AIR OUTLET.
 2. NOT ALLOWED AT TRANSFER DUCTS.
 3. WHEN THERE IS INSUFFICIENT ROOM TO MAINTAIN FLEX DUCT RADIUS, SEE DETAIL TITLED "TIGHT CONDITION - FLEX DUCT AIR OUTLET CONNECTION."
 4. NOT ALLOWED WHERE LINED "CANS" (OR LINED DUCTS) SHOWN (OR REQ'D) AT AIR OUTLETS.
 5. CEILING TYPE & AIR OUTLET FRAME STYLE MAY VARY FROM THAT DEPICTED.
 6. NOT ALL SUPPORTS SHOWN FOR CLARITY.

FLEX DUCT AIR OUTLET CONNECTION

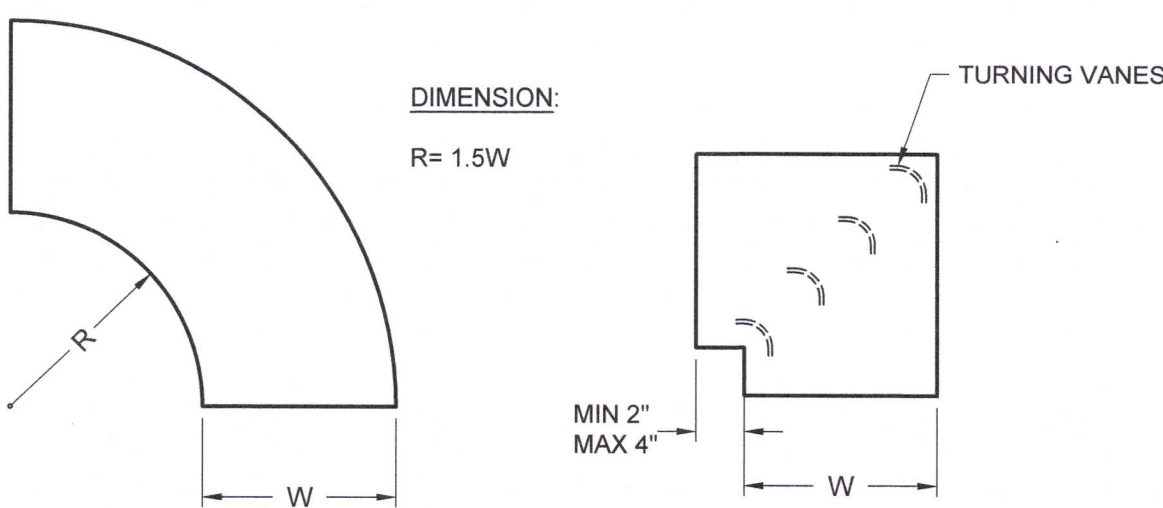
NTS

11

M4.4



NOT ALLOWED



RADIUS ELBOW

MITERED ELBOW

ELBOWS - RECTANGULAR

NTS

10

M4.4

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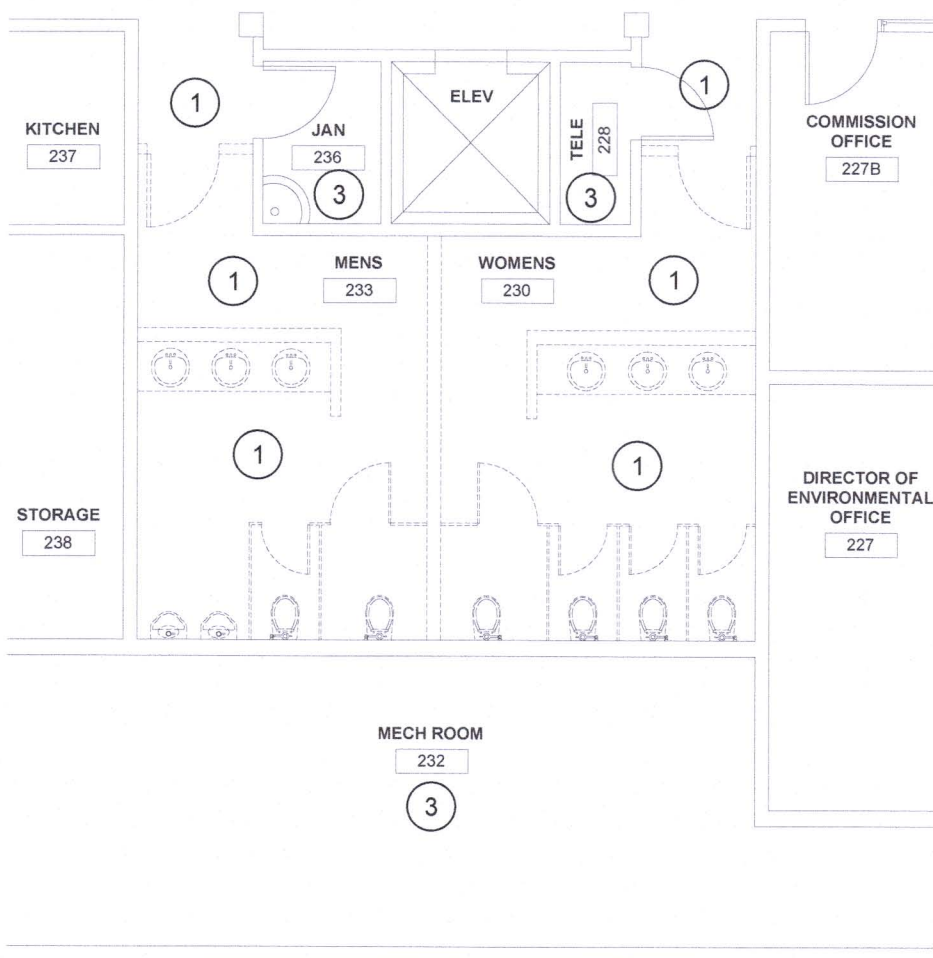
6666		ADMINISTRATION BUILDING PLUMBING REPAIRS				APPROVED:		Checker
M4.4		HVAC DETAILS				<i>Michael Leo Thoms</i>		BS
25 OF 33								
CONT/CONS: 071547		TOWNSHIP: 21		RANGE: 03		SECTION: 34		
M. ID: 101339.02		DAT-HRZ: WA83-SF		VERT:				
PHASE: BID SET		PARCEL: 42		DRAWING SCALE: AS-INDICATED		PORT ADDRESS: 1 SITCUM WAY		TACOMA, WA 98401
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						DIRECTOR ENG. DATE		MT AUG 4, 2021



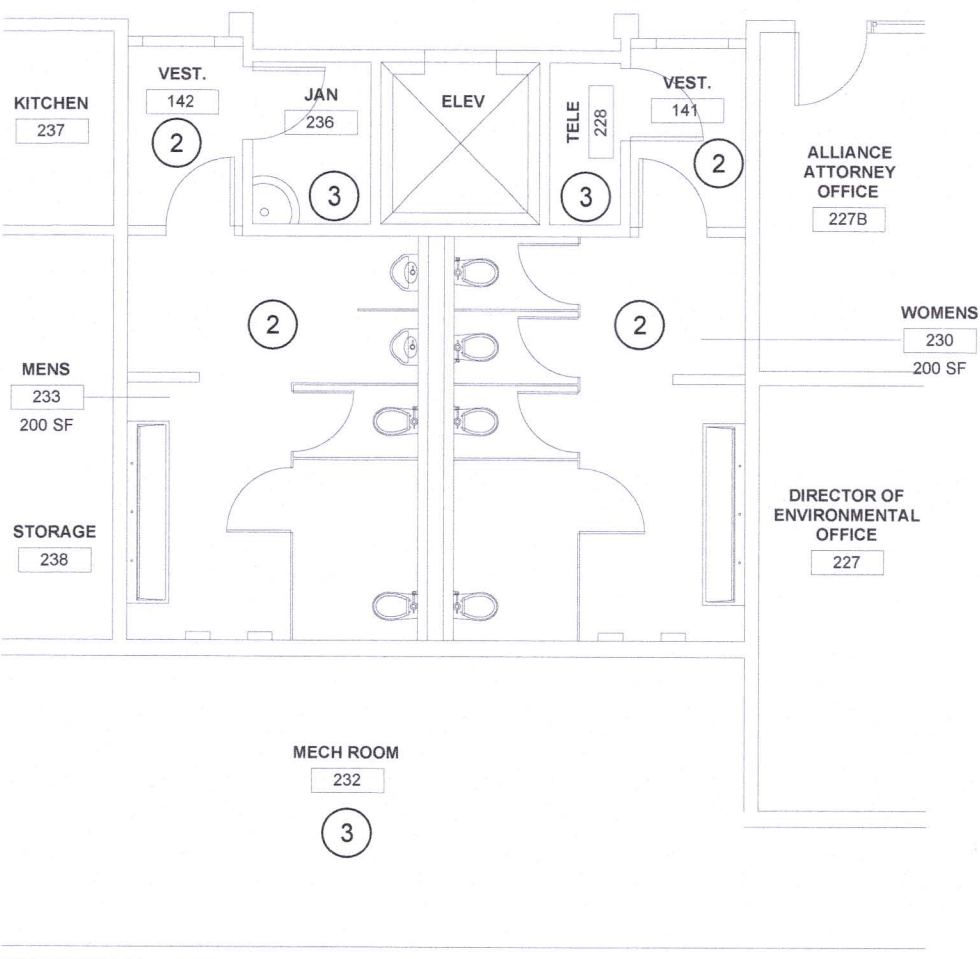
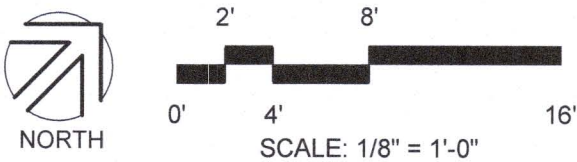
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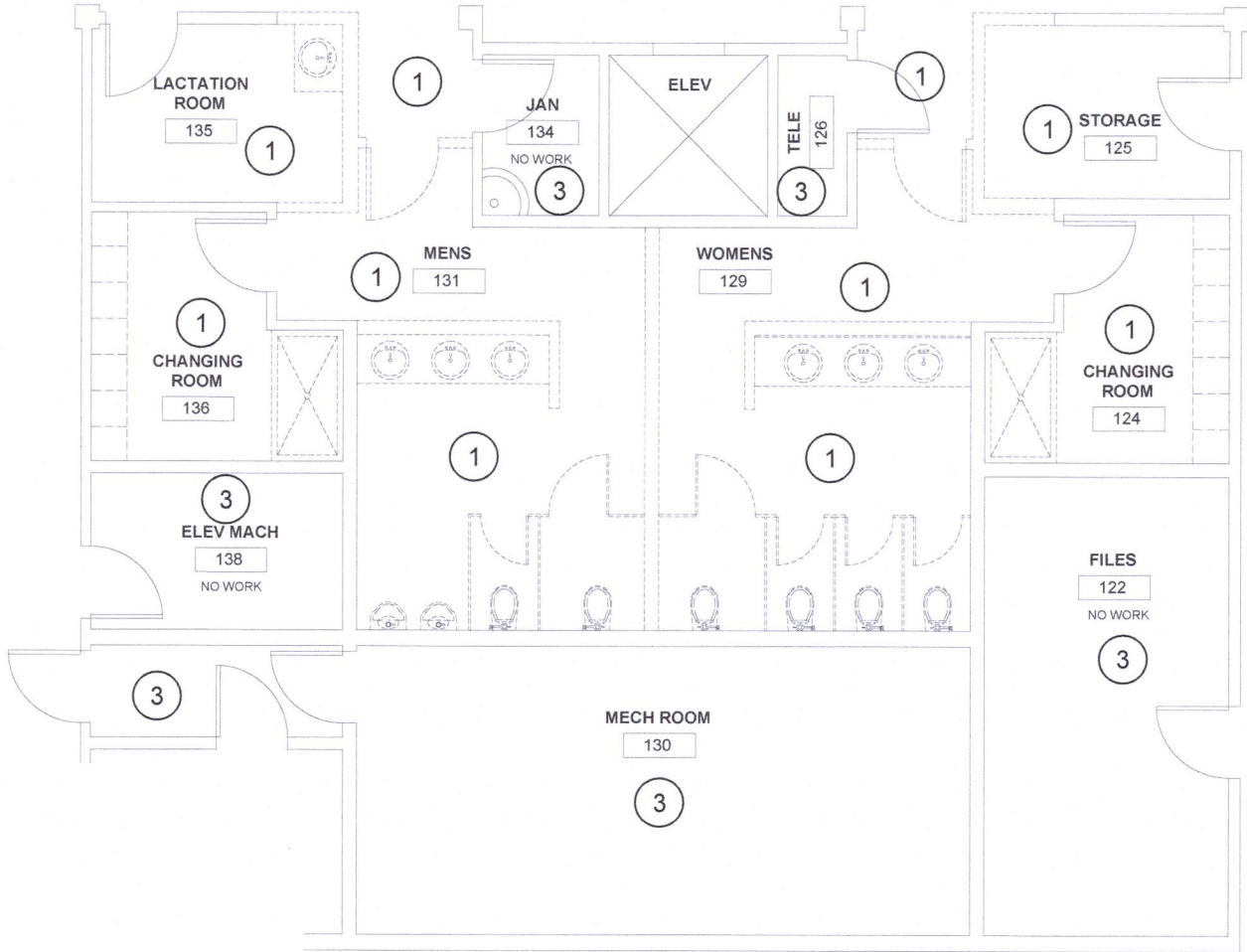
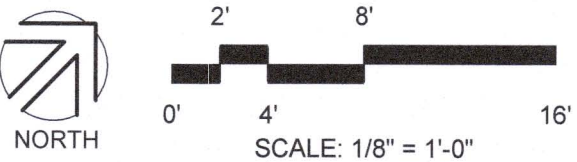
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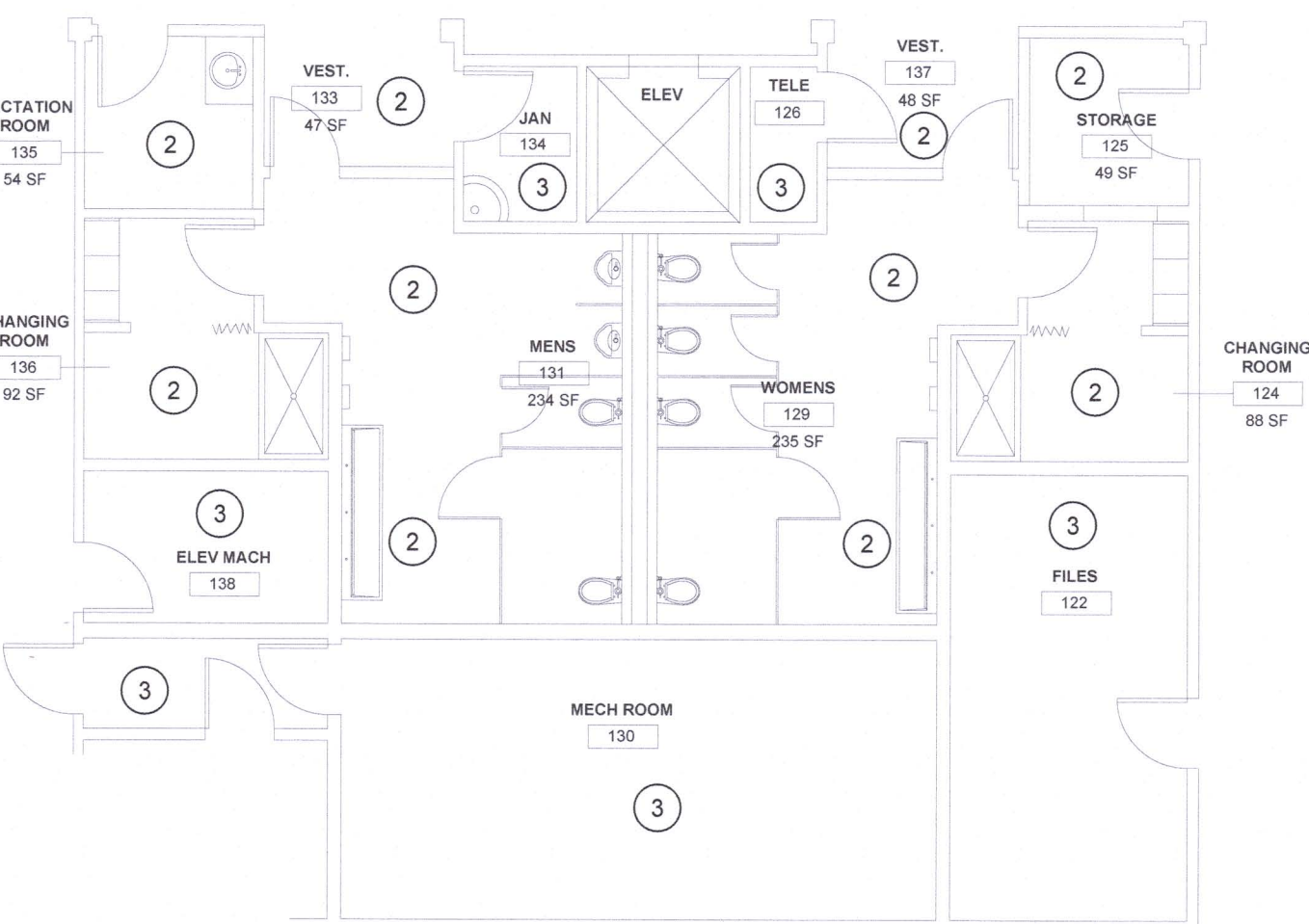
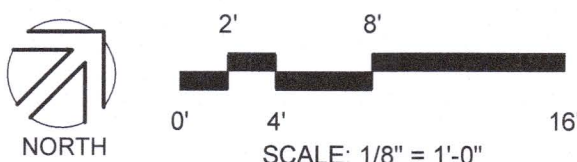
② LEVEL 2 - DEMOLITION PLAN - FIRE PROTECTION
1/8" = 1'-0"



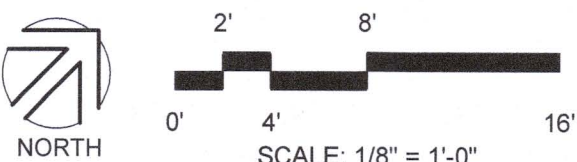
② LEVEL 2 PLAN - FIRE PROTECTION
1/8" = 1'-0"



① LEVEL 1 - DEMOLITION PLAN - FIRE PROTECTION
1/8" = 1'-0"



① LEVEL 1 PLAN - FIRE PROTECTION
1/8" = 1'-0"



FIRE PROTECTION NOTES:

1. REVIEW ARCHITECTURAL, STRUCTURAL, AND ALL OTHER DRAWINGS FOR BUILDING DETAILS AND LAYOUT. PLANS SHOWN ON "M" SHEETS ARE APPROXIMATE.
2. 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, MEZZANINE. PROVIDE OFFSETS AS REQUIRED.
3. SPRINKLER HEADS IN T-BAR CEILINGS SHALL BE CENTERED IN CEILING TILE.
4. SEE DIVISION 21 FOR FIRE SPRINKLER SYSTEM SPECIFICATIONS.
5. HAZARD CLASS SHALL BE AS DETERMINED BY AUTHORITY HAVING JURISDICTION AND FM GLOBAL REQUIREMENTS.
6. SEE ELECTRICAL PLANS & SPECIFICATIONS FOR FIRE ALARM SYSTEM.
7. CONTRACTOR'S PLANS SHALL BE STAMPED BY A STATE LICENSED FIRE PROTECTION DESIGNER (AS REQ'D BY AUTHORITY HAVING JURISDICTION).
8. ALL FIRE SPRINKLER HEADS SERVING THE BLDG SHALL BE QUICK RESPONSE TYPE.
9. ALL FIRE SPRINKLER HEADS SHALL BE LOCATED TO BE SYMMETRIC WITHIN SPACES SERVED AND BUILDING ARCHITECTURAL FEATURES.
10. BUILDING PLANS ON THESE SHEETS IS APPROXIMATE AND IS SCHEMATIC. USE ARCHITECTURAL PLANS FOR ACTUAL BUILDING LAYOUT. SEE ARCHITECTURAL PLANS FOR CEILINGS. ARCHITECTURAL PLANS GOVERN.
11. SYSTEM AND COMPONENT LAYOUT IS SUBJECT TO THE ARCHITECTS REVIEW. REASONABLE ADJUSTMENTS FOR AESTHETIC CONCERNS SHALL BE ACCOMMODATED WITHIN THE BID.
12. SEE PLANS FOR CALL-OUTS FOR NEW HEADS AND BRANCH PIPING TO SUIT THE REMODEL. FOR BIDDING PURPOSES, ALSO ASSUME RELOCATING UP TO TWO SPRINKLER HEADS PER EACH TOILET ROOM SUITE ON THE FIRST FLOOR, AND RELOCATING ONE SPRINKLER HEAD ON THE SECOND FLOOR; PLUS RELOCATION FOR LACTATION AND STORAGE ON LEVEL 1; TOTAL OF RELOCATED 8 HEADS, PLUS ALL NEW HEADS IN THE REMODEL AREA. DRAIN EXISTING FIRE SPRINKLER SYSTEM AS REQUIRED TO FACILITATE THIS WORK, AND PROVIDE FIRE WATCH REQUIREMENTS.

KEYED NOTES:

- ① REMOVE EXISTING SPRINKLER HEADS AND BRANCH LINES IN THE REMODEL AREA.
- ② PROVIDE NEW SPRINKLER HEADS AND BRANCH LINES IN THE REMODEL AREA. EXISTING SPRINKLER MAINS TO REMAIN.
- ③ EXISTING FIRE SPRINKLER COVERAGE TO REMAIN.

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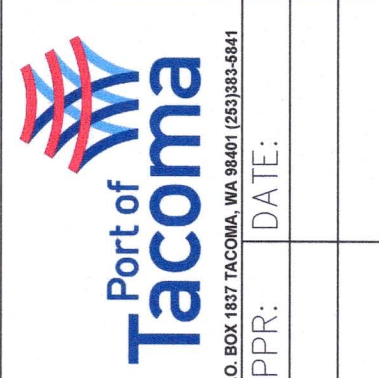
6666 M5.1 26 OF 33 CONT/CONS: 071547 M. ID: 101339.02 PHASE: BID SET	ADMINISTRATION BUILDING PLUMBING REPAIRS		FIRE PROTECTION PLANS	
	TOWNSHIP: 21	RANGE: 03	SECTION: 34	
	DATE: 03	DATE: 03	DATE: 03	
	PARCEL: 42	PARCEL: 42	PARCEL: 42	

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LIGHTING COMPLIANCE SUMMARY

2018 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

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Project & Applicant Information	Project Title	PoT Plumbing Repairs - 2018 WSEC	For Building Department Use: Date: Mar 24, 2021
	Project Address	ONE SITCUM PLAZA TACOMA, WA 98421	
	Applicant Name	Phil Crawford	
	Applicant Phone	253-383-3257	
	Applicant Email	philc@hultzbhu.com	
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com			

General Occupancy	All Commercial	General Building Use Type	Office, Government/Municipal	Building Cond. Floor Area	10,000	
General Project Types	Alteration	New Building or Addition Lighting Scope	Alteration Lighting Scope	Interior Lighting	Project Cond. Floor Area	1,247
					Floors Above Grade	2
Lighting Project Description				Compliance Method	Compliance Method 1 - General	

Lighting Compliance Scope and Method	Project Type	Interior / Exterior (Interior includes both interior & parking)	Luminaire Replacement Scope	Compliance Method	LPA Calculation Adjustment	Compliance Verification
	Alteration	Interior Lighting				
Additional Efficiency Options Included			50% or more replaced	Space by space	No Calculation Adjustments allowed	COMPLIES

Project Title	PoT Plumbing Repairs - 2018 WSEC	Date	Mar 24, 2021	
Lighting Power Calculation	ALTERATION - INTERIOR LIGHTING (50% or more replaced)		Compliance Verification	COMPLIES
Compliance Method	Space by space		LPA Calculation Adjustment	none

Interior Lighting Power Allowance - Space by Space						
General Space Type	Specific Space Type	Ceiling Height (Ft)	Gross Interior Area (SF)	LPA (Watts/SF)	Total Watts Allowed (SF x LPA x 1)	Compliance Status
Restroom	General		1,198	0.63	755	
Storage room	Less than 50 sf		49	0.51	25	
Totals					Proposed Total LPD	
					780	
					675.2	
					675	COMPLIES

Proposed Lighting Power Density						
Fixture Type	Fixture ID	Quantity of Fixtures (#F)	Watts or Wange Limit per Fixture (WpF)	Total Linear Feet (LF)	Watts per Linear Foot (WpLF)	Total Watts Proposed (#F x WpF) or (LF x WpLF)
Individual Fixtures	Horizontal surface-mount	S1	20	20		400
	Horizontal surface-mount	S2	5	15		75
	Horizontal surface-mount	W1	13	15		200
Proposed Total LPD						675.2

Project Title	PoT Plumbing Repairs - 2018 WSEC	Date	Mar 24, 2021
Proposed Fixtures Details	ALTERATION - INTERIOR LIGHTING (50% or more replaced)		
Fixture Type/Application	Fixture ID	Location in Documents	Lamp Type
			New or Existing-to-Remain

GENERAL ELECTRICAL NOTES:

1. MINIMUM CONDUIT SIZE FOR HOMERUNS AND FOR CONDUIT INSTALLED BELOW GRADE OUTDOORS SHALL BE 3/4 INCH.
2. LIGHTING, POWER, AND MECHANICAL EQUIPMENT CONDUCTORS SHALL NOT BE COMBINED IN THE SAME RACEWAY UNLESS NOTED OTHERWISE.
3. WHERE ROOM OCCUPANCY SENSORS ARE INDICATED, PROVIDE QUANTITY AND LOCATION OF DEVICES PER MANUFACTURER'S RECOMMENDATION FOR COMPLETE ROOM COVERAGE AND TO MINIMIZE FALSE ACTIVATION THRU OPEN DOORS.
4. 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.
5. REFER TO ARCHITECTURAL ELEVATIONS FOR LOCATION AND MOUNTING HEIGHT OF WIRING DEVICES. REPORT CONFLICTS TO ARCHITECT/ENGINEER FOR RESOLUTION.
6. VERIFY EXACT LOCATION OF FLOOR BOXES AND OUTLETS LOCATED IN KNEE SPACES AND CASEWORK. OBTAIN ARCHITECT APPROVAL PRIOR TO ROUGH-IN.

LIGHT FIXTURE SCHEDULE

SYM	DESCRIPTION	MANUFACTURER	LAMP TYPE	VOLTS	WATTS	REMARKS
S1	4', SURFACE MOUNT, VOLUMETRIC LED FIXTURE.	LITHONIA STL4	LED 2000 lm @3500K	UNV	20	
S2	6" ROUND, SURFACE MOUNT, LED DOWNLIGHT, WET LOCATION, DIMMING DRIVER.	HALO SLD	LED 1000 LUMEN @3500K	UNV	15	
W1	2" X 12" LONG, DIRECT/INDIRECT, WALL MOUNT, 1-CIRCUIT LED FIXTURE, SATIN WHITE DIFFUSER.	NEO-RAY DEFINE 2	LED 1005D/ 710U LUMEN @3000K	UNV	15.4	
	TWIN HEAD LED EMERGENCY LIGHT WITH INTEGRAL BATTERY AND SELF DIAGNOSTICS	LITHONIA EU2C CLORIDE VLTU	LED	UNV		

ENERGY CODE COMPLIANCE NOTES FOR LIGHTING

- A. SCOPE: COMMISSIONING OF AUTOMATIC LIGHTING CONTROL SYSTEMS FOR COMPLIANCE WITH THE ENERGY CODE AND CONTRACT DOCUMENTS. WORK INCLUDES COMMISSIONING, FUNCTIONAL PERFORMANCE TESTING, OWNER TRAINING, DOCUMENTATION, AND CLOSE OUT DOCUMENTATION
- B. SUBMIT TESTING REPORTS AS PART OF PROJECT CLOSEOUT DOCUMENTATION.
- C. FUNCTIONAL TESTING: PROVIDE ALL TOOLS, EQUIPMENT, MATERIALS, SERVICES, AND LABOR REQUIRED TO PERFORM FUNCTION CHECK AND FOLLOW UP SPOT CHECK ACTIVITIES. TESTS SHALL PROVE ALL MODES OF SEQUENCES AND OPERATION. UPON FAILURE OF ANY FUNCTIONAL PERFORMANCE TEST ITEM, THE CONTRACTOR SHALL CORRECT THE DEFICIENCY. FUNCTIONAL TESTING SHALL BE REPEATED UNTIL ALL CORRECTIONS ARE PROVED. FUNCTION TESTING SHALL INCLUDE THE FOLLOWING MINIMUM REQUIREMENTS:
1. OCCUPANCY SENSOR TESTING

☐ VERIFY LIGHTS AUTOMATICALLY TURN OFF WITHIN 20 MINUTES AFTER ROOM IS UNOCCUPIED.

☐ VERIFY SENSOR COVERAGE EXTENDS TO PERIMETER OF ROOM

☐ VERIFY SENSOR COVERAGE EXTENDS PER MANUFACTURERS RECOMMENDATIONS.

LIGHTING CONTROL NOTES

1. PROVIDE QUANTITY OF RELAY POWER PACKS, ROOM CONTROLLERS, AUTOMATIC SENSORS, AND INTERFACE ACCESSORIES REQUIRED FOR COMPLETE LIGHTING CONTROL SYSTEM BASED ON GENERAL AREA LIGHTING, AND MANUAL SWITCH CONTROL INDICATED ON PLANS.
2. WHERE OCCUPANCY SENSORS ARE INDICATED, PROVIDE ONE OR MORE SENSORS AS REQUIRED FOR FULL AREA COVERAGE. LOCATE OCCUPANCY SENSORS IN ROOM TO MINIMIZE FALSE ACTIVATION THROUGH OPEN DOORS.
3. LOW VOLTAGE WIRING SHALL BE INSTALLED IN 3/4" DIAMETER CONDUIT EXCEPT OPEN CABLING MAY BE INSTALLED ABOVE ACCESSIBLE CEILINGS AND IN ATTIC SPACES UNLESS OTHERWISE INDICATED ON PLANS.

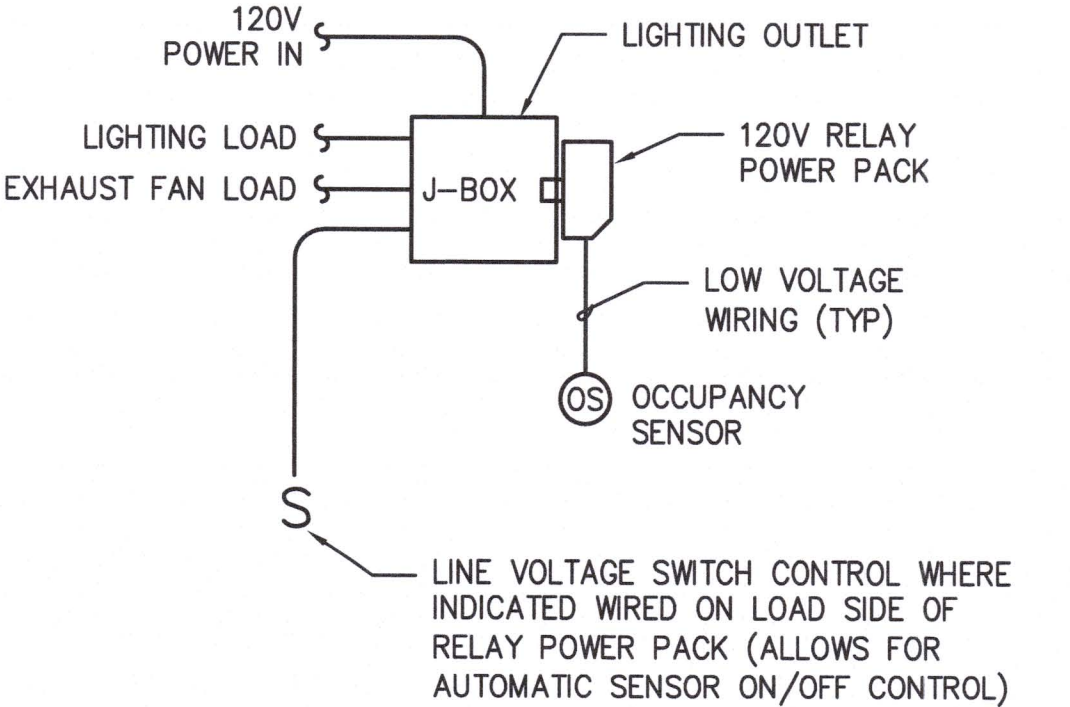
REMODEL ELECTRICAL NOTES:

1. REPLACE ALL WIRING DEVICES AND FACEPLATES WITH NEW AT EXISTING OUTLETS UNLESS INDICATED AS EXISTING TO REMAIN (E).
2. FIELD VERIFY EXISTING CIRCUITS BEING REPLACED OR MODIFIED, AND SCHEDULED FOR PANELBOARDS BEING REPLACED. USE AVAILABLE SPARE BREAKERS TO RECONNECT EXISTING CIRCUITS NOT SHOWN. REVISE CIRCUIT DIRECTORIES AND NOTE CHANGES ON RECORD DRAWINGS.
3. IT IS ASSUMED THAT EXISTING WIRING ABOVE CEILINGS AND IN CRAWLSPACES ARE NOT SUPPORTED PER CODE. INCLUDE NEW CONDUIT SUPPORTS FOR EXISTING WIRING ACCESSED DURING CONSTRUCTION.
4. CONTRACTOR SHALL DEMO ALL ELECTRICAL DEVICES AND WIRING INDICATED. CONTRACTOR SHALL INCLUDE A MINIMUM OF 20 HOURS IN BID TO FIELD VERIFY CIRCUITING FOR DEVICES NOT INDICATED FOR REMOVAL THAT MAY BE AFFECTED BY NEW WORK. EXTEND WIRING AS REQUIRED TO RECONNECT ANY DEVICES OR EQUIPMENT NOT INDICATED FOR REMOVAL.
5. BUILDING WAS OCCUPIED DURING FIELD INVESTIGATION. INCLUDE 20% MORE DEVICES THAN INDICATED TO BE REMOVED, DEMOLISHED, AND/OR REPLACED WITH NEW, AS REQUIRED.
6. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS & LOCATIONS OF ALL ITEMS BEFORE BIDDING & AGAIN BEFORE BEGINNING ANY WORK.

ELECTRICAL LEGEND

(SOME SYMBOLS MAY NOT BE USED ON DRAWINGS)

SYMBOL	DESCRIPTION
	LUMINAIRE (TO SCALE ON DRAWINGS)
	SURFACE FIXTURE – ROUND
	EMERGENCY FIXTURE – TWIN HEAD
	SINGLE POLE TOGGLE SWITCH
	OCCUPANCY SENSOR – WALL SWITCH
	OCCUPANCY SENSOR – CEILING MOUNT
	SCHEDULED EQUIPMENT CONNECTION (INCLUDE ALL WIRING, DISCONNECTING MEANS, CONTROL AND OTHER REQUIREMENTS SCHEDULED)
	GFCI DUPLEX RECEPTACLE (NEMA 5–20R) SUBSCRIPT: WC WATER COOLER * COUNTER HEIGHT
	EQUIPMENT CONNECTION SUBSCRIPT: WH WATER HEATER HD HAND DRYER WD WASTE DISPOSER
	HEAVY LINE WEIGHT = NEW WORK (RECEPTACLE SHOWN)
	STANDARD LINE WEIGHT = EXISTING TO REMAIN (RECEPTACLE SHOWN)
	BROKEN LINE WORK = ELECTRICAL DEMOLITION (RECEPTACLE SHOWN)
	HORN [SPEAKER] WITH VISUAL SIGNAL (STROBE)
	CONTROL TRANSFORMER



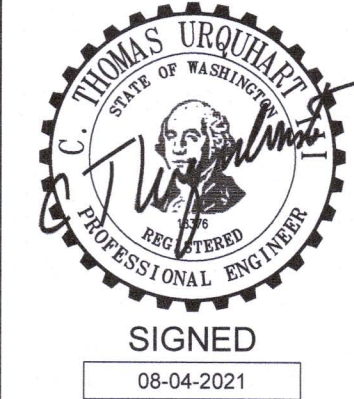
ROOM OCCUPANCY SENSOR

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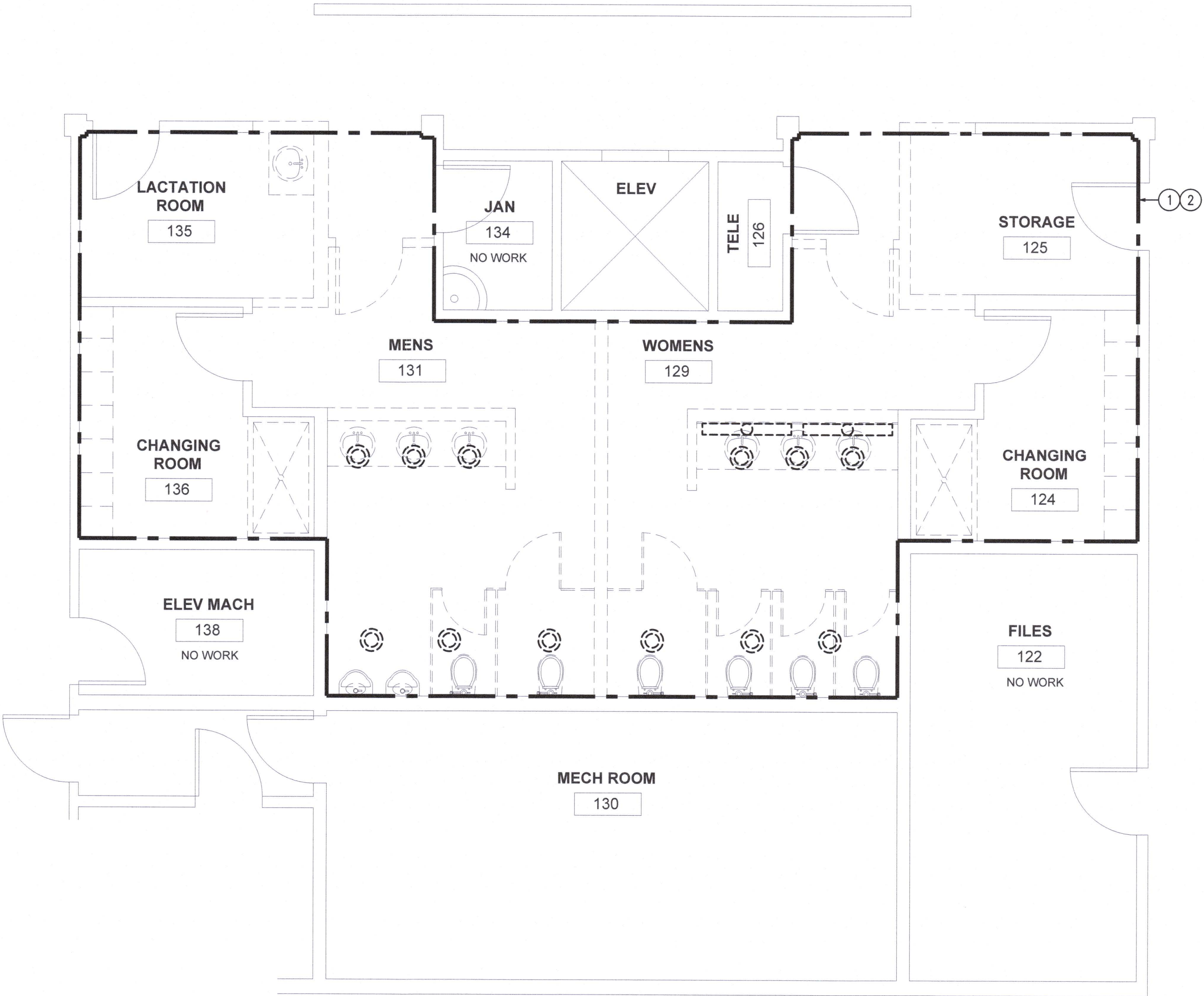
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6666	E0.1	27 OF 33	CONT/CONS: 071547	TOWNSHIP: 21	DATE-HRZ: WA83-SF	VERT: 101339.02	PARCEL: 42	DRAWING SCALE: AS-INDICATED	PORT ADDRESS: 1 SITCUM WAY TACOMA, WA 98401	APPROVED: <i>Phil Crawford</i> DIRECTOR ENG. DATE	Checker	AD	AUG 4, 2021
											PRINTED BY:	PC	AUG 4, 2021
											SECTION: 34		
											RANGE: 03		
											LEGEND, SCHEDULE & DETAIL		
ADMINISTRATION BUILDING PLUMBING REPAIRS										APPROVED: <i>Phil Crawford</i> DIRECTOR ENG. DATE			
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TOWNSHIP: 21										DATE-HRZ: WA83-SF			
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PARCEL: 42										DRAWING SCALE: AS-INDICATED			
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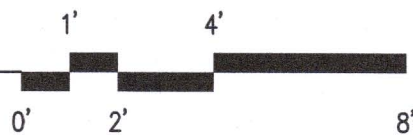


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LEVEL 1 - ELECTRICAL DEMO PLAN

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



PLAN KEY NOTES:

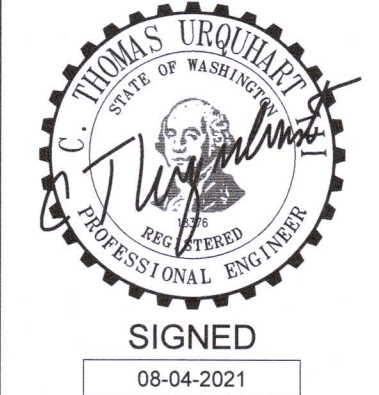
- 1 REMOVE EXISTING LIGHT FIXTURES IN THIS SPACE. RETAIN CIRCUIT FOR REUSE.
- 2 REMOVE EXISTING OUTLETS AND RETAIN CIRCUIT FOR FUTURE USE.

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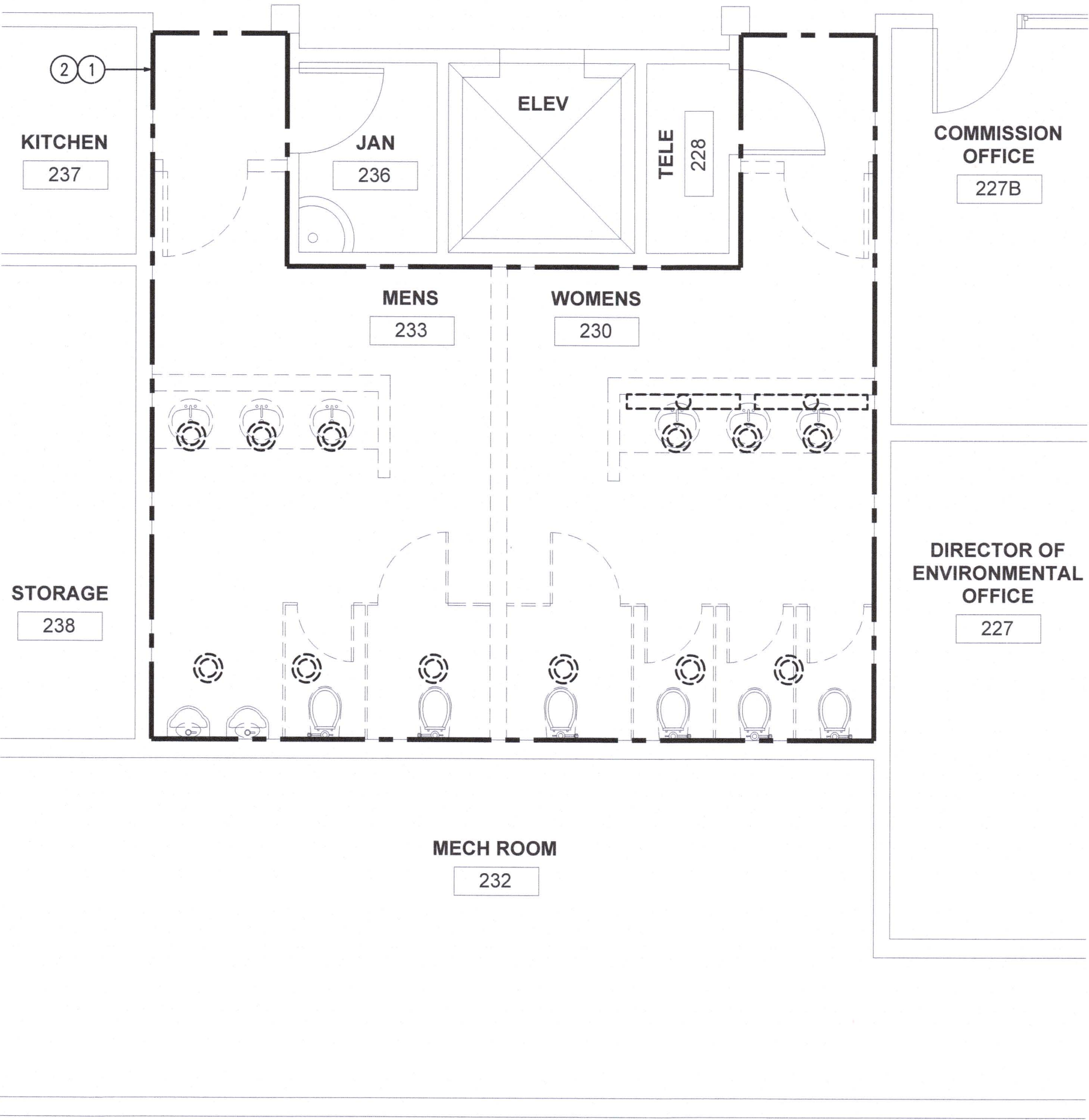
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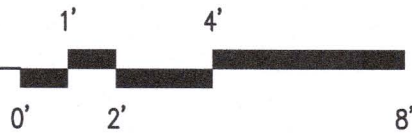
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LEVEL 2 - ELECTRICAL DEMO PLAN

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



PLAN KEY NOTES:

- 1 REMOVE EXISTING LIGHT FIXTURES IN THIS SPACE. RETAIN CIRCUIT FOR REUSE.
- 2 REMOVE EXISTING OUTLETS AND RETAIN CIRCUIT FOR FUTURE USE.

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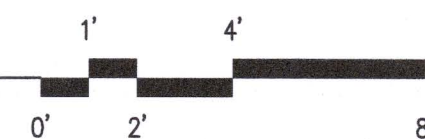
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6666 E1.2 29 OF 33 CONT/CONS: 071547 M. ID: 101339.02 PHASE: BID SET	ADMINISTRATION BUILDING PLUMBING REPAIRS LEVEL 2 - ELECTRICAL DEMO SECTION: 34 TOWNSHIP: 21 RANGE: 03 VERT: 42 DATE-HRZ: WA83-SF PARCEL: 42 DRAWING SCALE: AS-INDICATED	APPROVED: DIRECTOR ENG. DATE 6/2/21	Checker AD AUG 4, 2021		 1011 SW KLIKITTAT WAY, STE. 208 SEATTLE, WA 98134 (206) 631-6442	 P.O. BOX 637 TACOMA, WA 98401 (206) 383-5611
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LEVEL 1 - LIGHTING PLAN

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

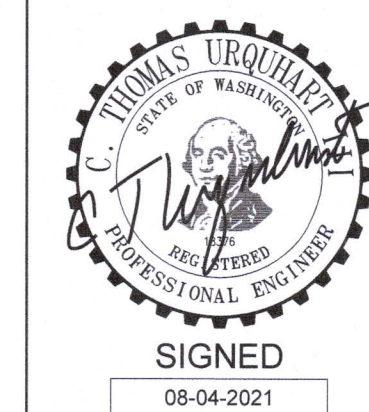


- PLAN KEY NOTES:
- ① REUSE EXISTING LIGHTING CIRCUIT WITH NEW FIXTURES AND UPDATED LIGHTING CONTROLS.

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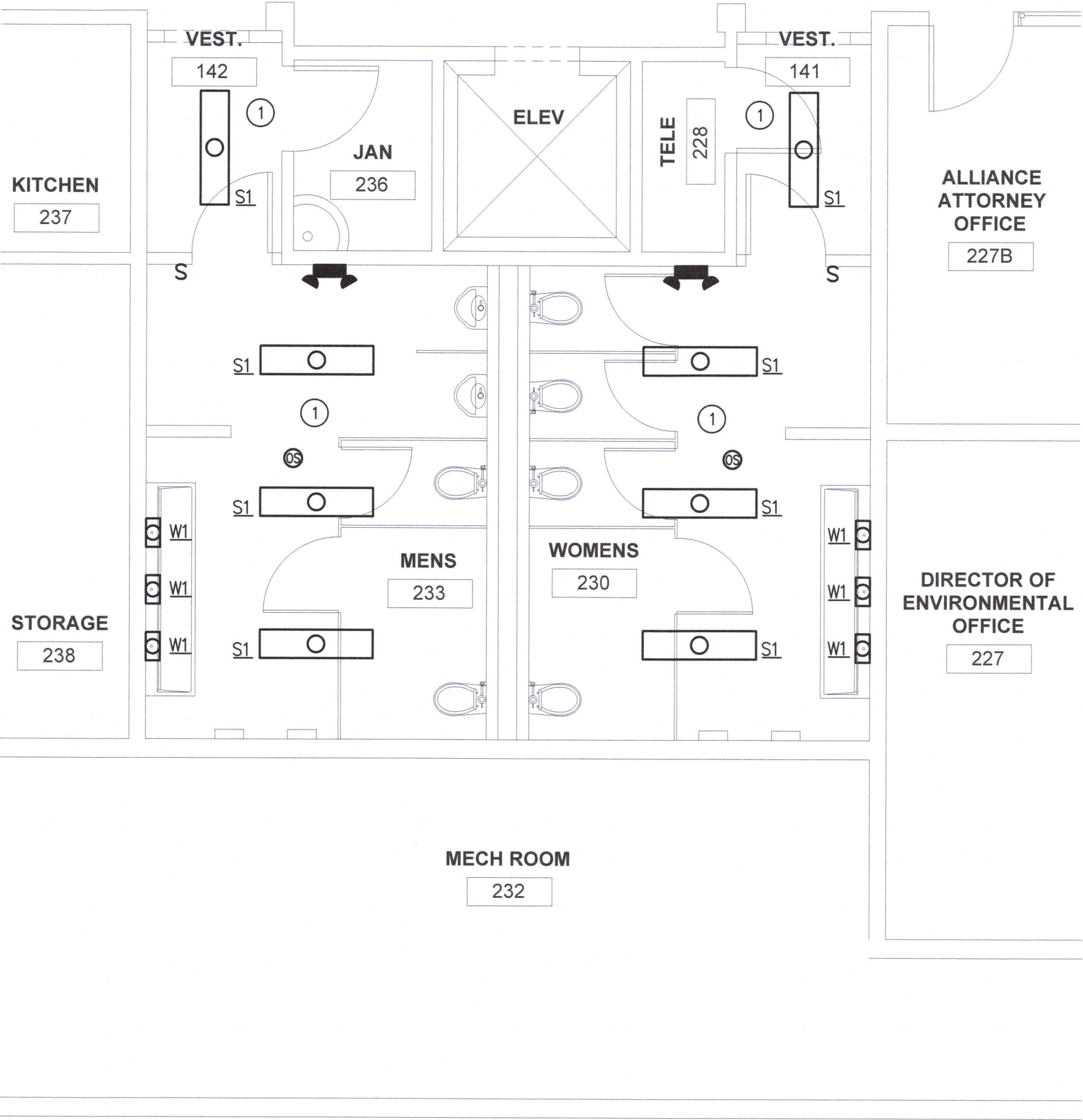
LEVEL 1 - LIGHTING PLAN

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DAT-HRZ: WA83-SF		
VERT:		
PARCEL: 42	DRAWING SCALE: AS INDICATED	

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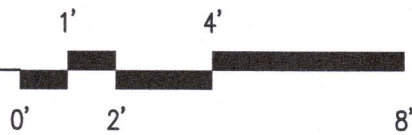
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LEVEL 2 - LIGHTING PLAN

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



PLAN KEY NOTES:

- ① REUSE EXISTING LIGHTING CIRCUIT WITH NEW FIXTURES AND UPDATED LIGHTING CONTROLS.

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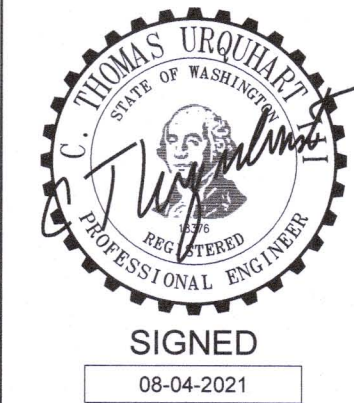
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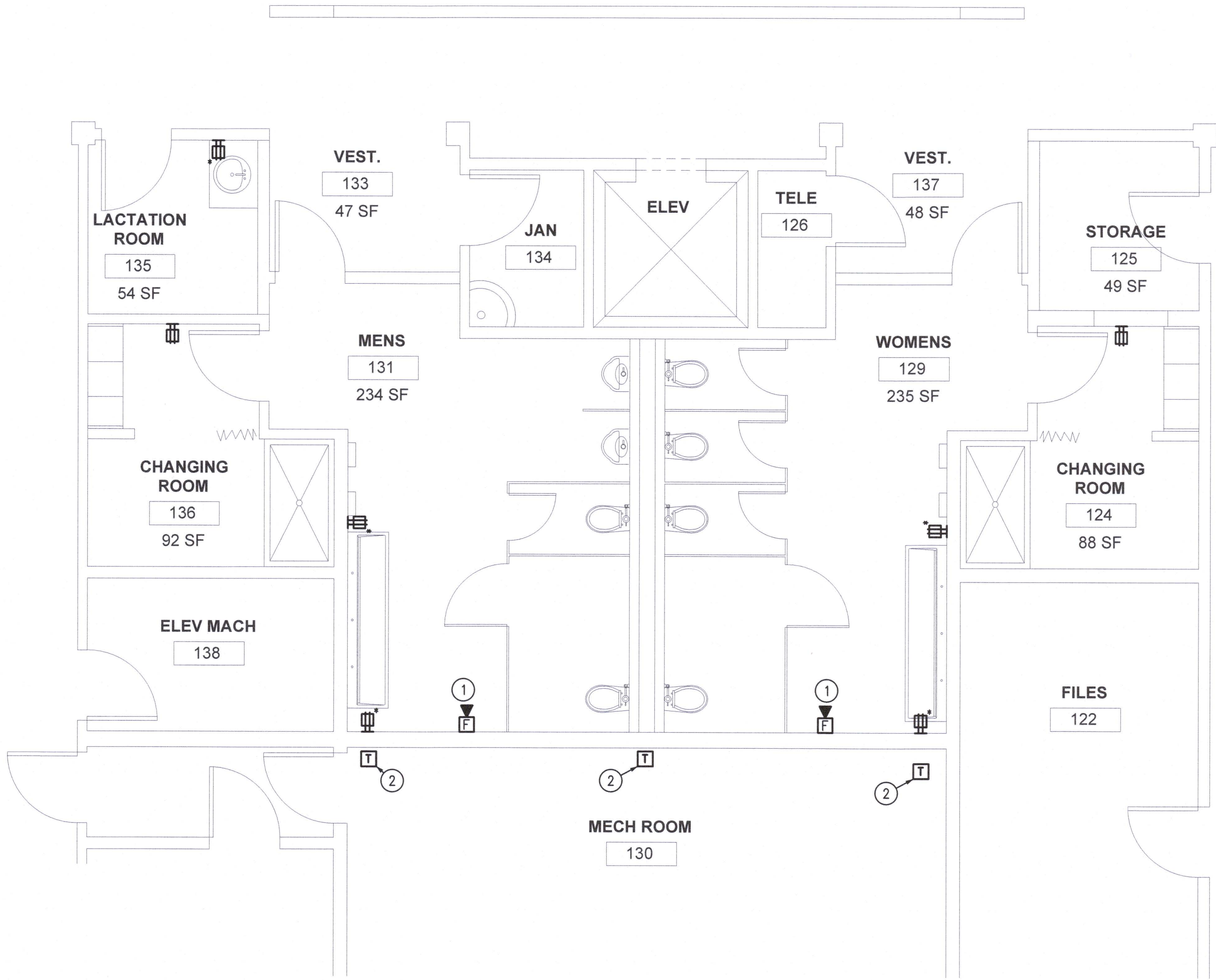
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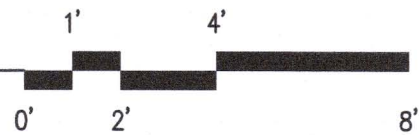
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LEVEL 1 - POWER PLAN

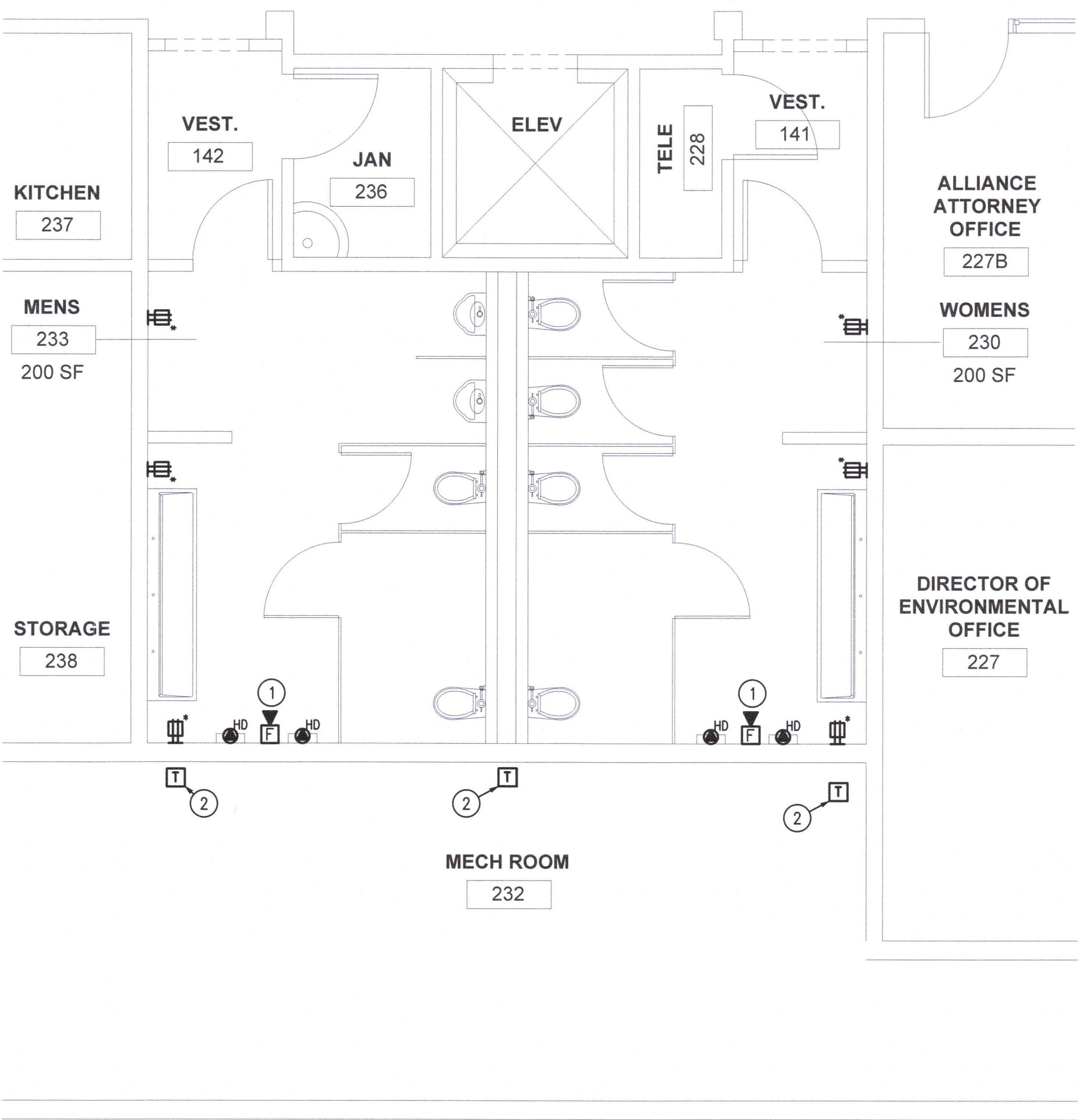
SCALE: 1/4" = 1'-0"



PLAN KEY NOTES:

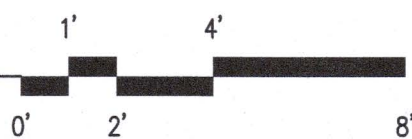
1. CONNECT HORN STROBE TO EXISTING FA SYSTEM.
2. CONTROL TRANSFORMER FOR TOUCHLESS FAUCETS TO BE LOCATED IN MECHANICAL ROOM WITH WIRING TO FIXTURES CONCEALED IN WALL.

6666 E3.1 32 OF 33 CONT/CONS: 071547 M. ID: 101339.02 PHASE: BID SET	ADMINISTRATION BUILDING PLUMBING REPAIRS				APPROVED: DIRECTOR ENG. DATE: 08-04-2021 PRINTED BY: PC PORT ADDRESS: 1 SITCUM WAY TACOMA, WA 98401		CHECKER: AD AUG 4, 2021		 Port of Tacoma P.O. BOX 1837 TACOMA, WA 98401 (253) 383-5841	
	LEVEL 1 - POWER PLAN				RANGE: 03 TOWNSHIP: 21 DATE-HRZ: WA83-SF PARCEL: 42		SECTION: 34 VERT: 42		OAI PS Architecture & Planning 1011 SW KLUCKITAT WAY, STE. 208 SEATTLE, WA 98134 (206) 631-8442 MARK: REVISION: BY: DATE:	
SIGNED 08-04-2021										
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LEVEL 2 - POWER PLAN

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



- PLAN KEY NOTES:
- 1 CONNECT HORN STROBE TO EXISTING FA SYSTEM.
 - 2 CONTROL TRANSFORMER FOR TOUCHLESS FAUCETS TO BE LOCATED IN MECHANICAL ROOM WITH WIRING TO FIXTURES CONCEALED IN WALL.

6666 E3.2 33 OF 33	ADMINISTRATION BUILDING PLUMBING REPAIRS				APPROVED: <i>[Signature]</i> DIRECTOR ENG. DATE		Checker AD AUG 4, 2021		 P.O. BOX 4187 TACOMA, WA 98401 (253) 383-5641 DATE: APPR: BY:						
	LEVEL 2 - POWER PLAN				PRINTED BY: PC		AUG 4, 2021								
	TOWNSHIP: 21				RANGE: 03		SECTION: 34								
	DAT-HRZ: 101339.02				WA83-SF		VERT:								
PHASE: BID SET				PARCEL: 42				DRAWING SCALE: AS-INDICATED				PORT ADDRESS: 1 SITCUM WAY TACOMA, WA 98401			

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