

PORT OF TACOMA

FABULICH CENTER 1ST FLOOR TOILET RENOVATION PROJECT NO. 101648.01 CONTRACT NO. PORT-PA-000000298

PORT COMMISSIONERS:

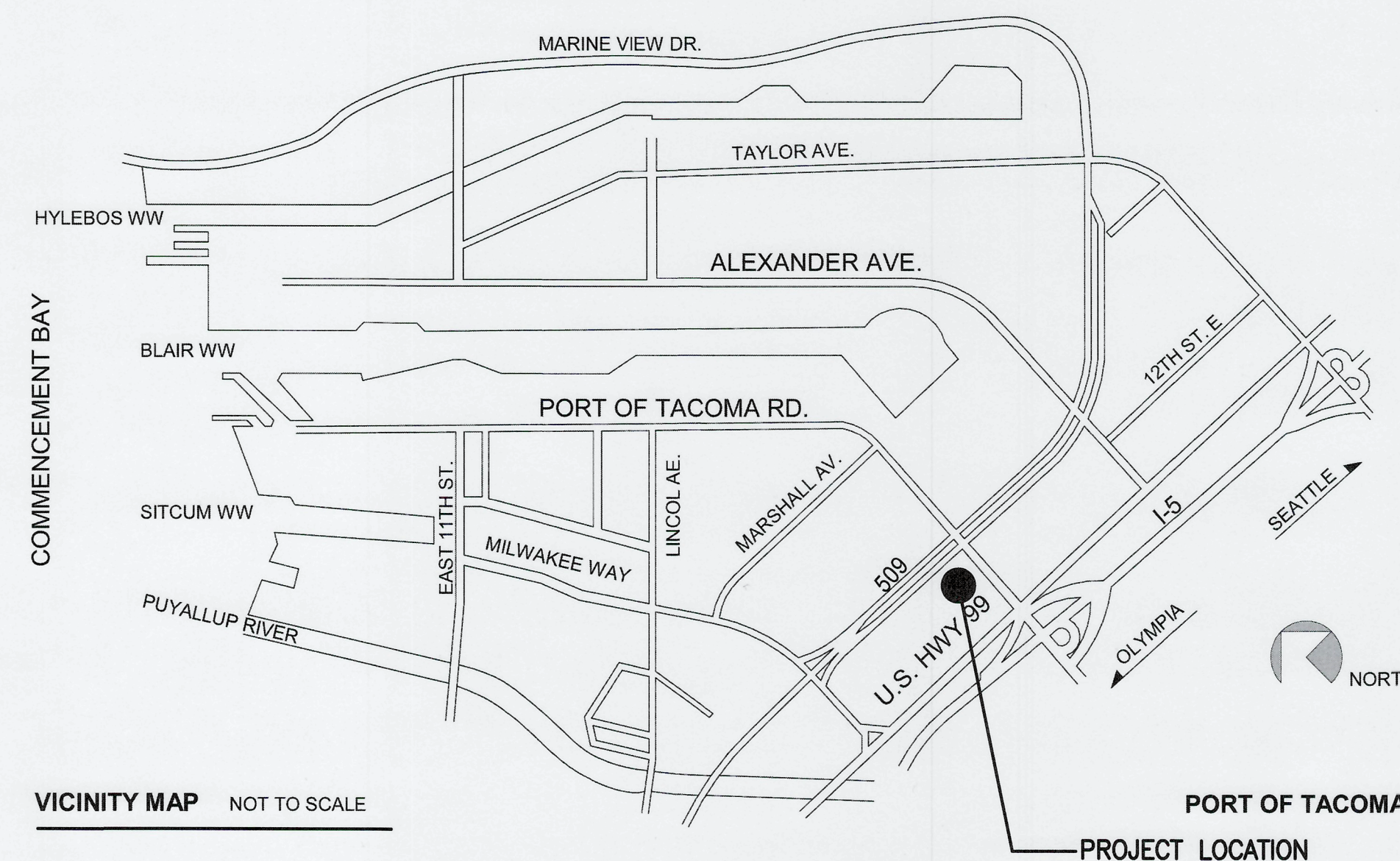
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PORT STAFF:

ERIC JOHNSON
Port of Tacoma Executive Director

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Director of Engineering

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Project Manager



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BID SET

DRAWING LIST			
SHEET DESIGNATION	SHEET #	SHEET TITLE	REVISION
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G1.1	2	SITE PLAN	0
R1.1	3	PHOTO REFERENCE PLAN AND PHOTO DETAILS	0
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E9.1	21	RISER DIAGRAM	0
E10.1	22	PANEL SCHEDULES	0
E10.2	23	PANEL SCHEDULES	0

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401

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MARK: REVISION: BY: DATE:
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REGISTERED ARCHITECT
JERRY OSBORN
STATE OF WASHINGTON

CHECKED BY: DATE
DATE
PROJ. ENGR. DATE
PRINTED BY: Marv Mar 14, 2025
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

FAB CENTER 1ST FLOOR TOILET RENOVATION
COVER SHEET

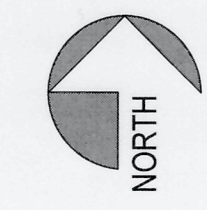
6711 OF 23
G1.00
1 OF 1

CONT./CONS: PORT-PA-000000298 TOWNSHIP: 20N RANGE: 02 SECTION: 3E
M. ID: 101648.01 DAT-HR/MARS/201 WSP VERT: MLLW 1983-2001
PHASE: BID SET PARCEL: 0320024113 DRAWING SCALE: AS NOTED

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1 OVERALL SITE PLAN
1" = 30'-0"



CODE SUMMARY:

PROJECT NAME: FABULICH CENTER
1ST FLOOR TOILET RENOVATION

PROJECT ADDRESS: 3600 PORT OF TACOMA RD
TACOMA, WA 98421

PARCEL NUMBER: 0320024113

LEGAL DESCRIPTION: Section 02 Township 20 Range 02 Quarter 43 THAT POR OF NW OF SE & SW OF SE LY SLY OF SR 509 WLY OF PORT OF TACOMA RD & NLY OF PLAT OF PUYALLUP WATERWAY FACTORY SITES EASE OF REC OUT OF 03-20-02-4- 099 SEG 2025-0077 08/16/24 JP

SCOPE OF WORK: RENOVATION OF 1ST FLOOR MEN'S AND WOMEN'S TOILETS

SQUARE FEET: 71,626

BUILDING CODE EDITION: 2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
2021 MECHANICAL CODE
2021 UNIFORM PLUMBING CODE
2017 ICC A117.1

OCCUPANCY: OFFICE CLASS A

YEAR BUILT: 1984

CONSTRUCTION TYPE: III-A

CONTACT INFORMATION:

OWNER: PORT OF TACOMA
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O: 253.888.4755 | C: 253.209.2022
KYLE SMITH
kysmith@portoftacoma.com

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JERRY OSBORN | AIA, NCARB, LEED AP
C: (206) 920 6348
josborn@oai-ps.com

		CHECKED BY: <i>Jerry Osborn</i> DATE: _____ PROJECT ENGR: _____ DATE: _____ DIRECTOR ENGR: _____ DATE: _____ PRINTED BY: Manvi Mar 14, 2025 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837
		APPROVED: <i>Jerry Osborn</i> DIRECTOR ENGR: _____ DATE: _____ PROJECT ENGR: _____ DATE: _____ SECTION: 3E RANGE: 02 TOWNSHIP: 20N DATE: 10/16/24 PARCEL: 0320024113 DRAWING SCALE: AS NOTED M. ID: 101648.01 PHASE: BID SET

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DEMO SANITARY NAPKIN DISPENSER. PATCH WALL AS REQ'D

8 PHOTO DETAIL
SCALE: N.T.S



DEMO (E) WATER CLOSETS - TYP FOR MEN'S AND WOMEN'S TOILET

DEMO (E) TOILET PARTITIONS W/ OVERHEAD BRACE - TYP FOR MEN'S AND WOMEN'S TOILET

7 PHOTO DETAIL
SCALE: N.T.S



DEMO (E) MIRROR - TYP FOR MEN'S AND WOMEN'S TOILET

DEMO (E) LAVATORIES W/ COUNTERTOPS, DEMO BACKSPASH TILES - TYP FOR MEN'S AND WOMEN'S TOILET

(E)WASTE RECEPTACLE TO REMAIN - TYP FOR MEN'S AND WOMEN'S TOILET

3 PHOTO DETAIL
SCALE: N.T.S



DEMO TILES AND BACKERBOARD - TYP FOR MEN'S AND WOMEN'S TOILET

DEMO (E) WING WALL, TYP FOR MEN'S AND WOMEN'S TOILET

DEMO (E) FLOOR TILES AND TILE BASE, TYP FOR MEN'S AND WOMEN'S TOILET

2 PHOTO DETAIL
SCALE: N.T.S



DEMO URINALS - RE MECH.

DEMO (E) FLOOR TILES, GROUT BED AND TILE BASE, TYP FOR MEN'S AND WOMEN'S TOILET

9 PHOTO DETAIL
SCALE: N.T.S



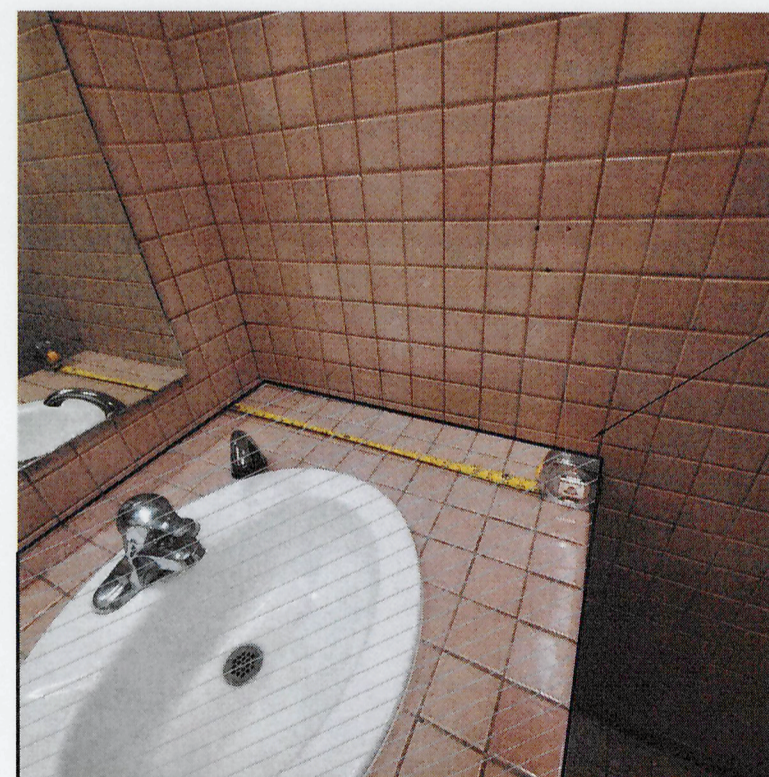
DEMO TILES AND BACKERBOARD - TYP FOR MEN'S AND WOMEN'S TOILET

DEMO SS PLATE - TYP FOR MEN'S AND WOMEN'S TOILET

DEMO (E) GRAB BARS - TYP FOR MEN'S AND WOMEN'S TOILET

DEMO TOILET PAPER DISPENSER
DEMO TOILET SEAT COVER DISPENSER (TYP FOR MEN'S AND WOMEN'S TOILET)

6 PHOTO DETAIL
SCALE: N.T.S



DEMO (E) LAVATORIES W/ COUNTERTOPS, DEMO BACKSPASH TILES - TYP FOR MEN'S AND WOMEN'S TOILET

10 PHOTO DETAIL
SCALE: N.T.S



DEMO (E) WING WALL, TYP FOR MEN'S AND WOMEN'S TOILET

DEMO URINALS - RE MECH.

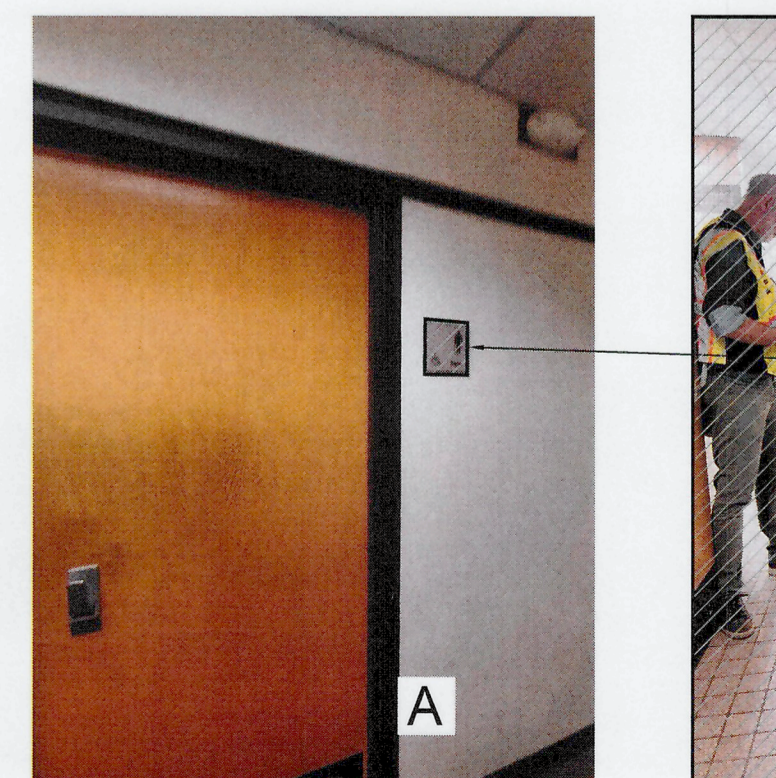
5 PHOTO DETAIL
SCALE: N.T.S



DEMO TILES AND BACKERBOARD - TYP FOR MEN'S AND WOMEN'S TOILET

DEMO (E) TOILET PARTITIONS AND OVERHEAD BRACE - TYP FOR MEN'S AND WOMEN'S TOILET

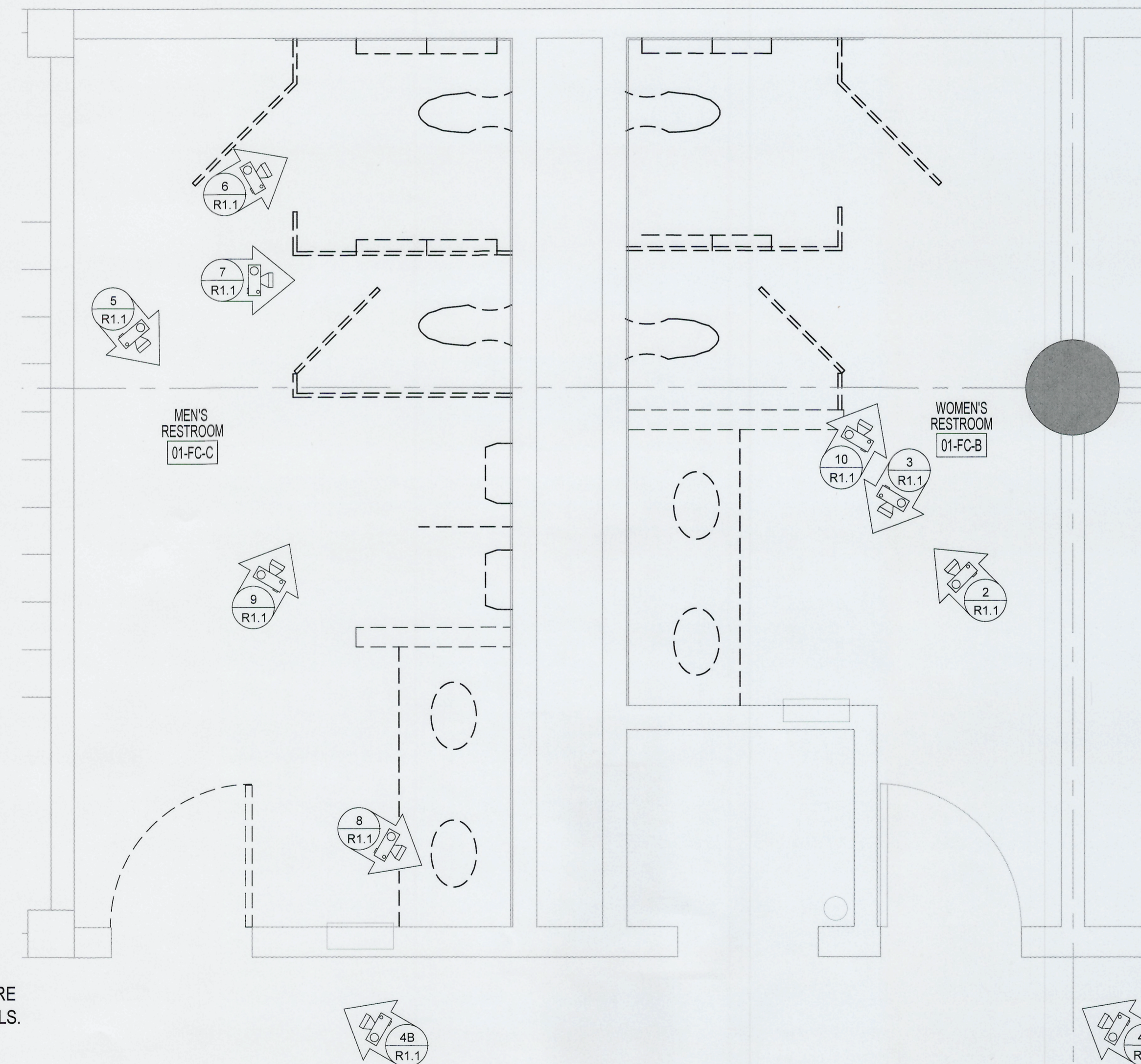
11 PHOTO DETAIL
SCALE: N.T.S



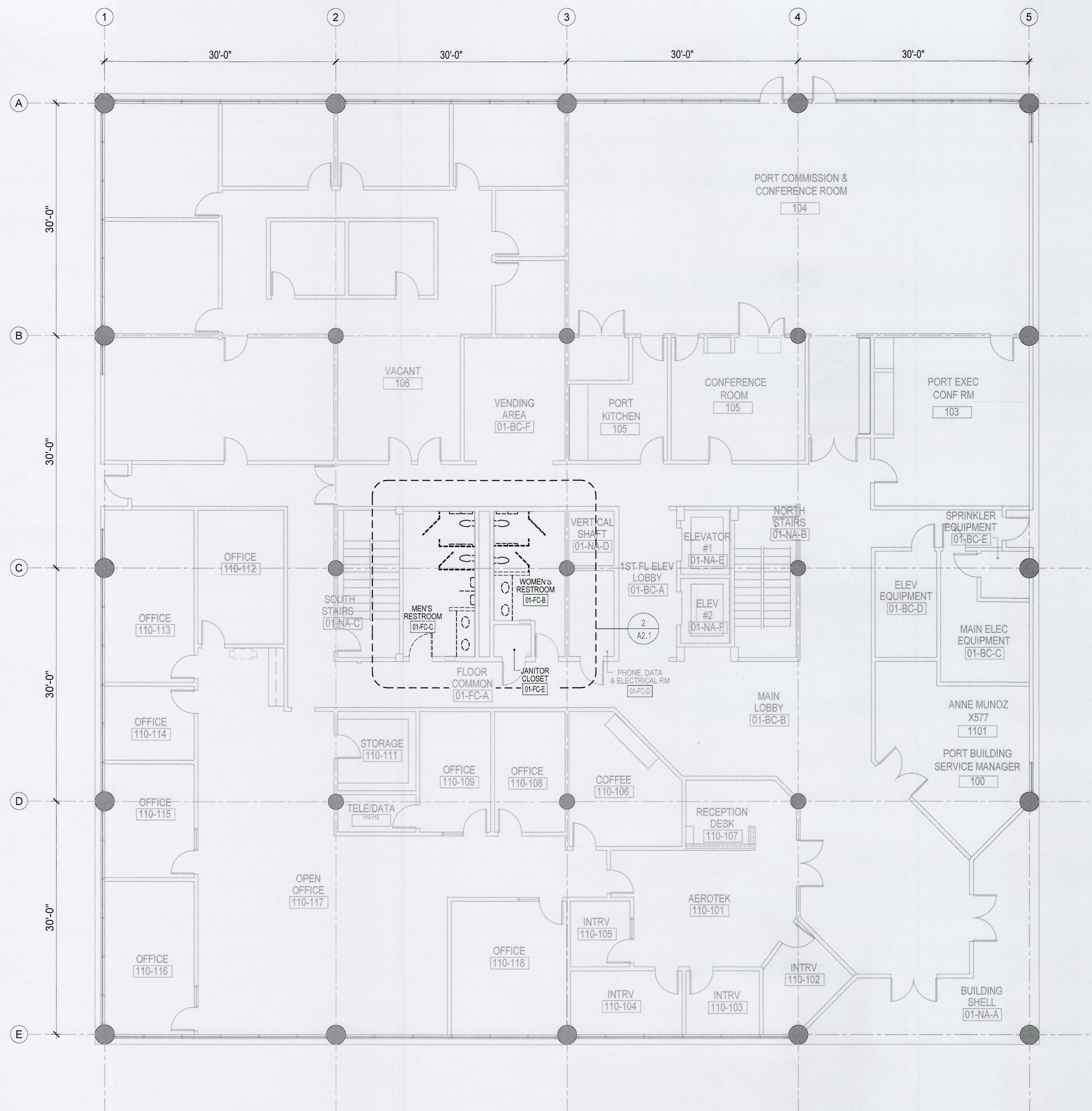
REMOVE SIGNAGE. INSTALL NEW SIGNAGE - RE A5.1 FOR SIGNAGE DETAILS. PATCH WALL AS REQ'D

DEMO DOOR AND FRAME OF WOMEN'S RESTROOM

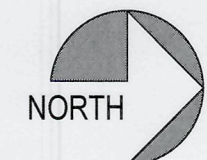
4 PHOTO DETAIL
SCALE: N.T.S



1 PHOTO REFERENCE PLAN
SCALE: 1/2" = 1'-0"



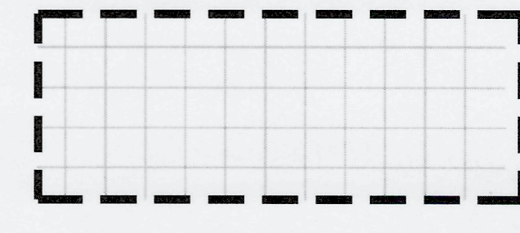
1 OVERALL FIRST FLOOR PLAN
SCALE: 1/8" = 1' - 0"



GENERAL NOTE:
1. INSTALL RAM BOARD FROM EXTERIOR ENTRANCE TO TOILET ROOMS TO PROTECT EXISTING FLOOR FINISHES.

 1001 SW Klickitat Way, Suite 204 Seattle WA 98134 P: 206.920.6348 MARK: REVISION: BY: DATE:			
APPROVED: <i>David J. Hines</i> DIRECTOR ENG. DATE: Mar 17, 2025 PRINTED BY: Manvi Mar 17, 2025 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837		CHECKED BY:	DATE:
FAB CENTER 1ST FLOOR TOILET RENOVATION OVERALL FIRST FLOOR PLAN		PROJ. ENGR:	DATE:
TOWNSHIP: 20N	RANGE: 02	SECTION: 3E	
CONTRACT/CONS: PORT-PA-000002298	DATE-HRZ: 14082011 WASF	PARCEL: 0320024113	DRAWING SCALE: AS NOTED
M. ID: 101648.01			
PHASE: BID SET			

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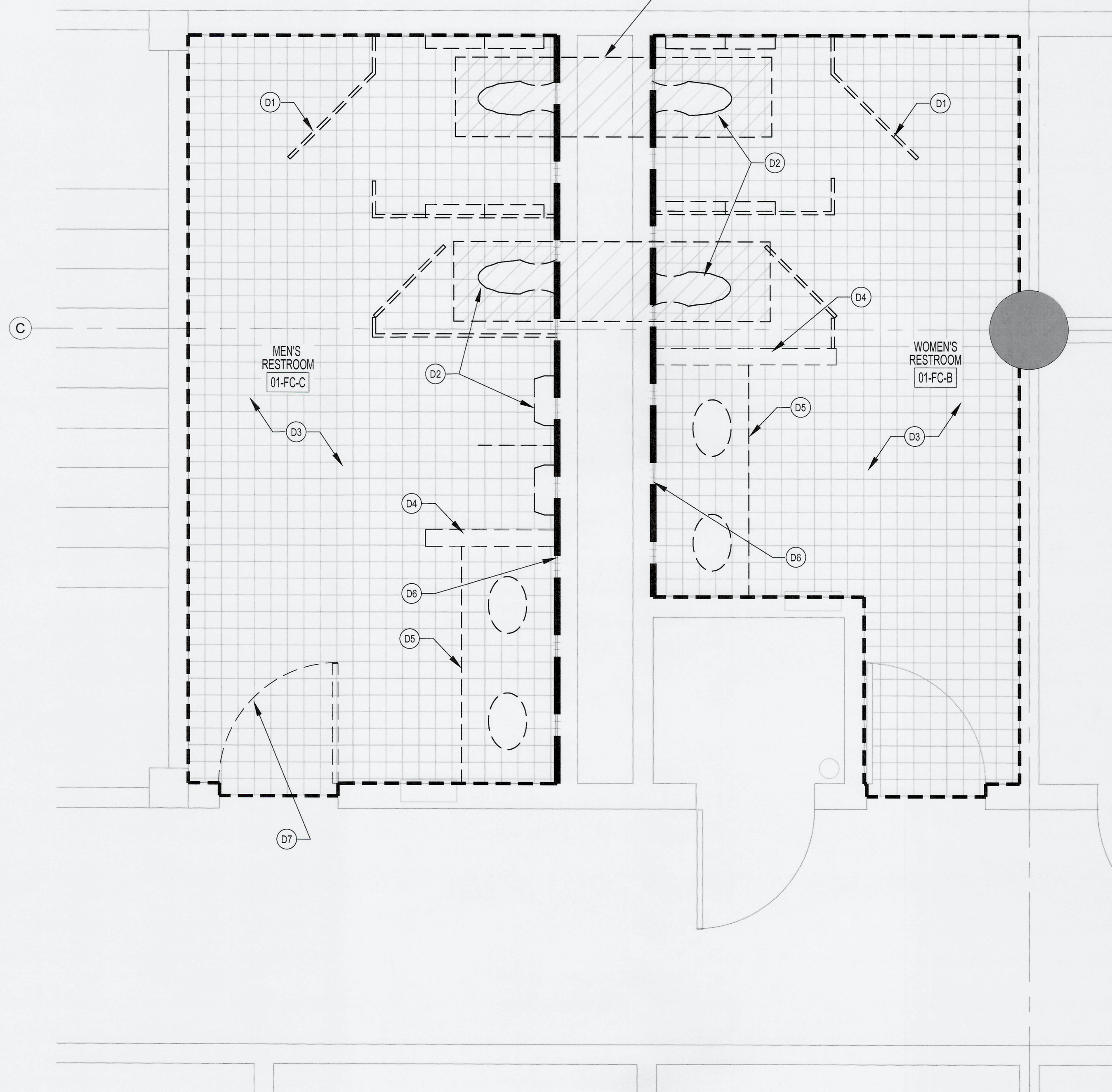
LEGEND:
 DEMO FLOOR TILES W/ BASE, TYP.



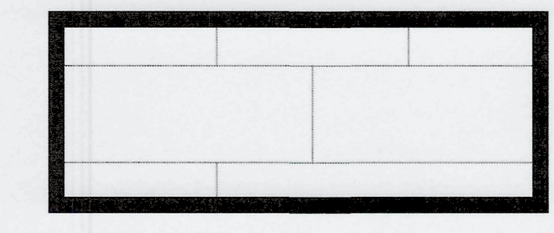
DEMO WALL TILES, TYP.

DEMO NOTES:

- (D1) DEMO (E) PARTITIONS, TYP
 - (D2) DEMO (E) TOILET FIXTURES, TYP - RE MECH.
 - (D3) DEMO (E) FLOOR CERAMIC TILE AND TILE SETTING BED
 - (D4) DEMO (E) WING WALL
 - (D5) DEMO (E) COUNTERTOP
 - (D6) DEMO (E) WALL TILES, TYP
 - (D7) DEMO (E) DOOR
- DEMO FLOOR SLAB AT WATER CLOSETS AS REQUIRED FOR MECHANICAL WORK, TYP. PATCH AND REPAIR SLAB



2 1ST FLOOR TOILET PLAN - DEMO
 SCALE: 1/2" = 1'-0"
 NORTH



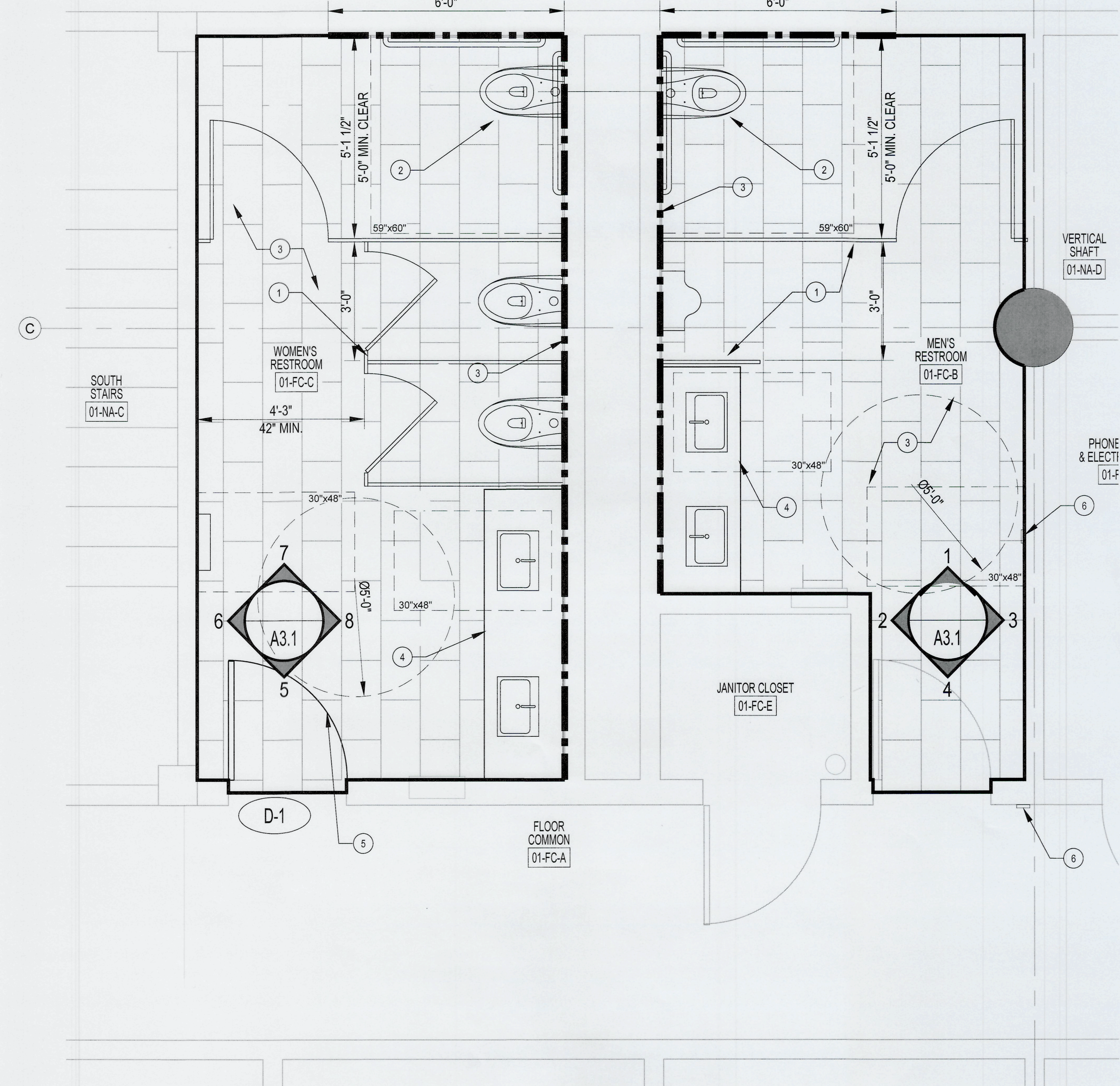
LEGEND:
 (N) FLOOR TILES W/ COVE BASE, TYP. - RE SCHEDULES



(N) WALL TILES, TYP. - RE SCHEDULES

KEY NOTES:

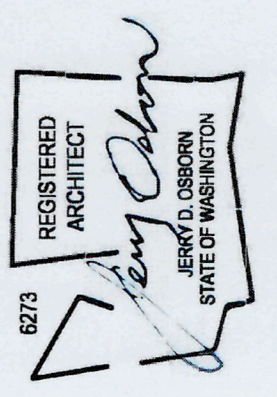
- (1) (N) HDPE TOILET PARTITIONS W/ OVERHEAD BRACE, TYP.
- (2) (N) TOILET FIXTURES, TYP.
- (3) (N) FLOOR/WALL TILES - RE FINISH SCHEDULE
- (4) (N) COUNTERTOP W/ UNDERMOUNT SINK
- (5) (N) DOOR AND FRAME
- (6) (N) AUTOMATIC DOOR PADDLE - RE DETAIL 7/A5.1 FOR MOUNTING HEIGHT



1 1ST FLOOR TOILET PLAN
 SCALE: 1/2" = 1'-0"
 NORTH



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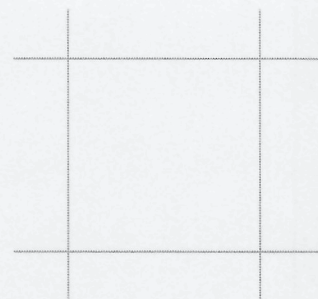
APPROVED:
 CHECKED BY: DATE
 PROJECT ENG. DATE: PROJ. ENGR DATE
 DIRECTOR: *Amy Olson* 3/16/25
 PRINTED BY: Marvi Mar 17, 2025
 PORT ADDRESS: ONE SITCUM PLAZA
 TACOMA, WA 98401-1837

FAB CENTER 1ST FLOOR TOILET RENOVATION
 ENLARGED TOILET PLANS

TOWNSHIP: 20N RANGE: 02 SECTION: 3E
 DAT - HRZ: NAD83/2011 WASF VER: 1: MLLW 1983-2001
 PARCEL: 0320024113 DRAWING SCALE: AS NOTED

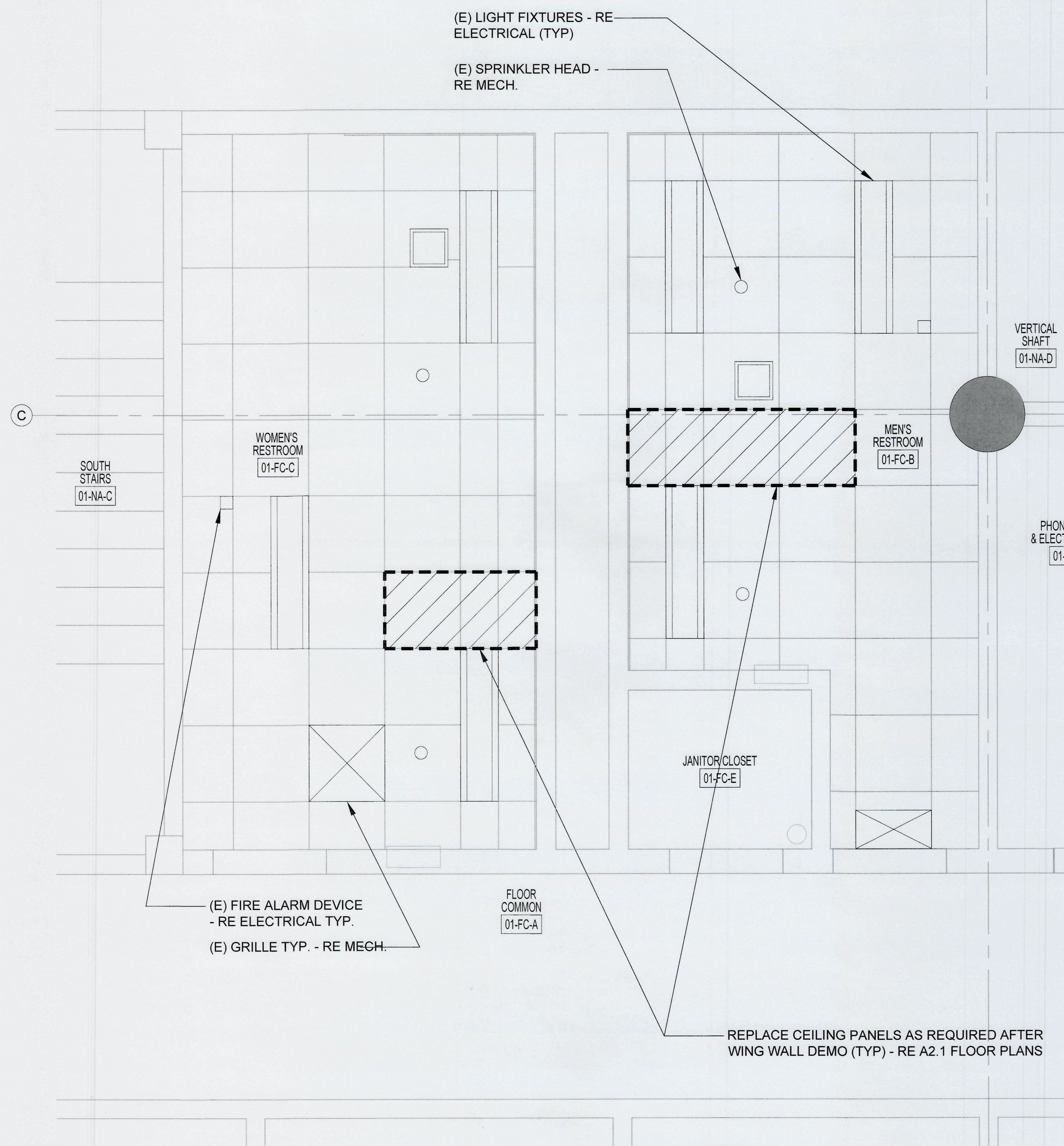
6711
A2.1
 5 OF 23
 CONT./CONS: PORT-PA-000000298
 M. D.: 101648.01
 PHASE: BID SET

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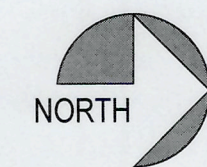


LEGEND:
(E) 2x2 TEGULAR CEILING PANELS.

- GENERAL NOTES:**
1. EXISTING CEILING GRID AND PANELS TO REMAIN.
 2. EXISTING LIGHT CEILING FIXTURES TO REMAIN.
 3. NOTE: 1ST FLOOR IS 2x2 TEGULAR CEILING PANELS.
 4. FOR BIDDING PURPOSES, ASSUME 20% OF CEILING PANELS WILL BE REPLACED



1 1ST FLOOR REFLECTED CEILING PLAN
SCALE: 1/2" = 1' - 0"

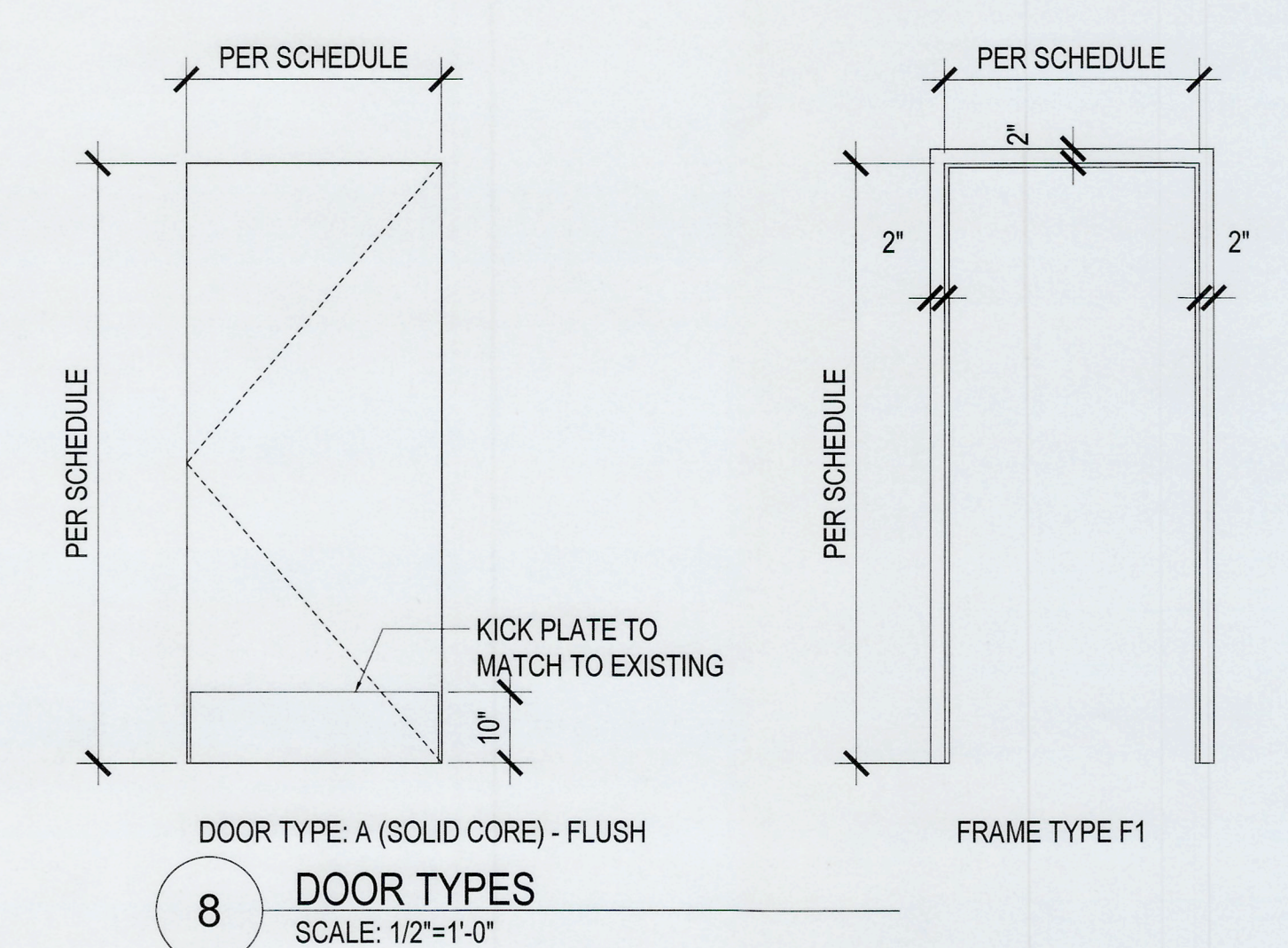
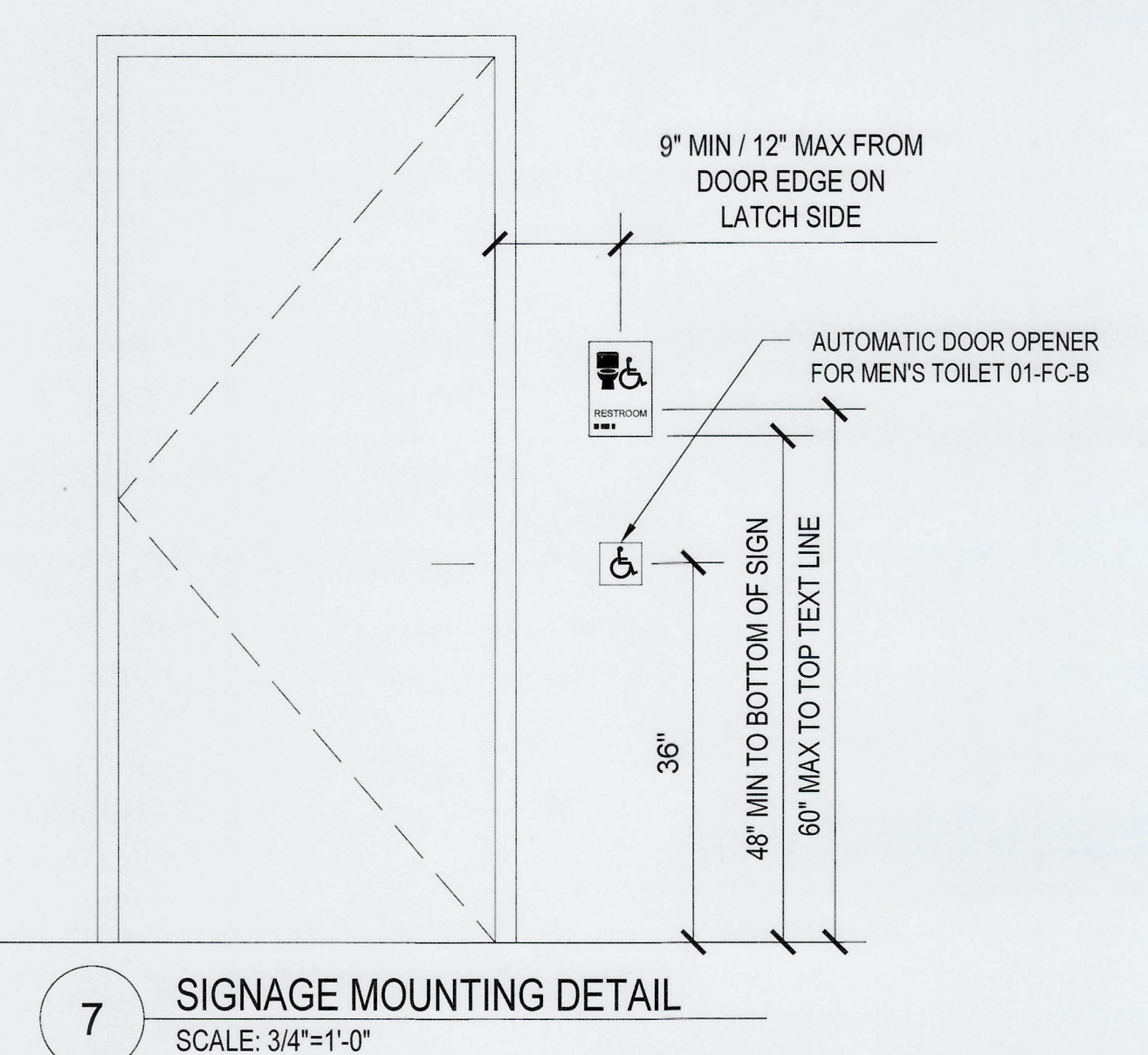
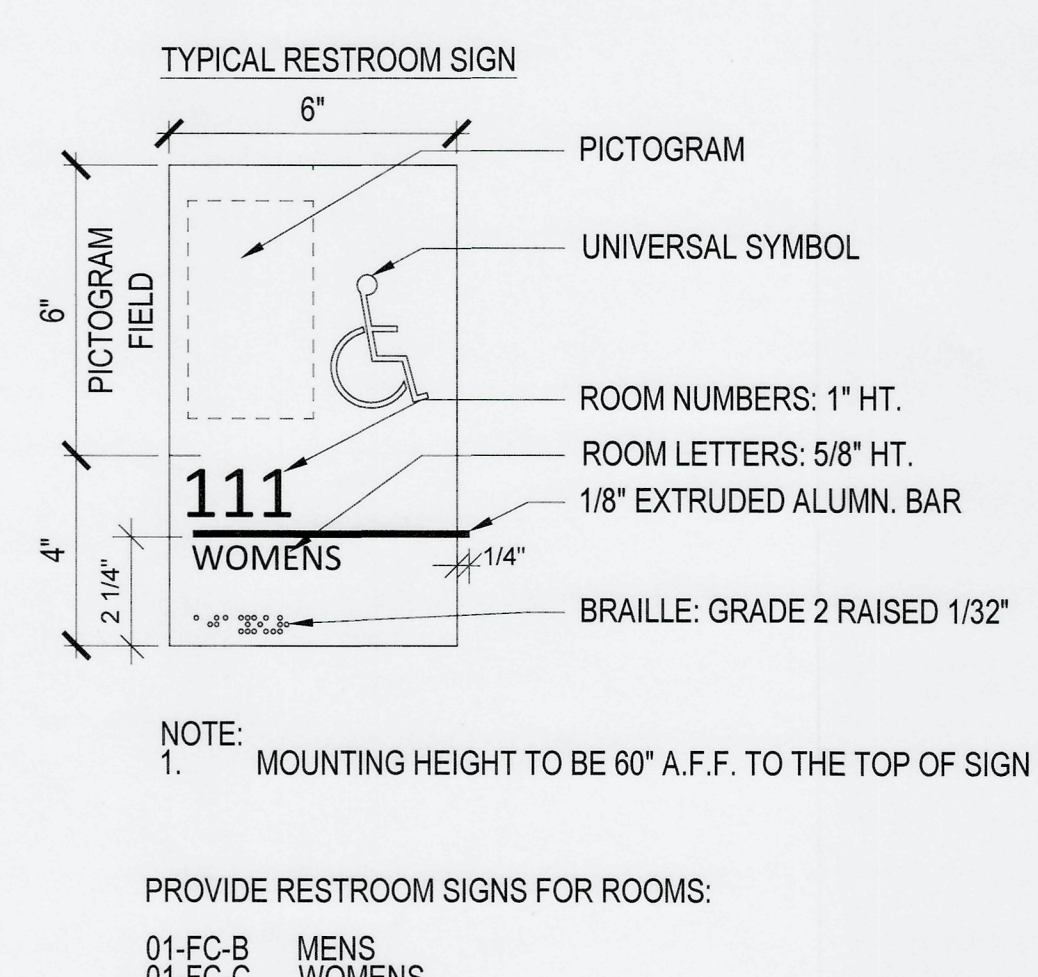
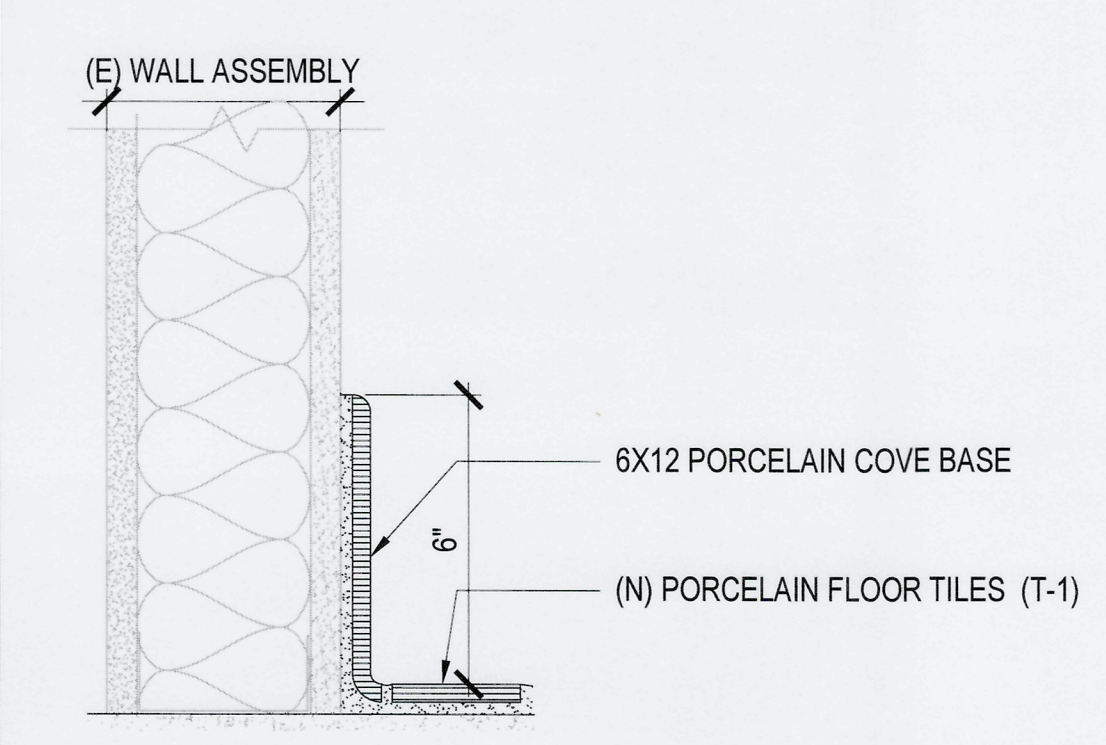
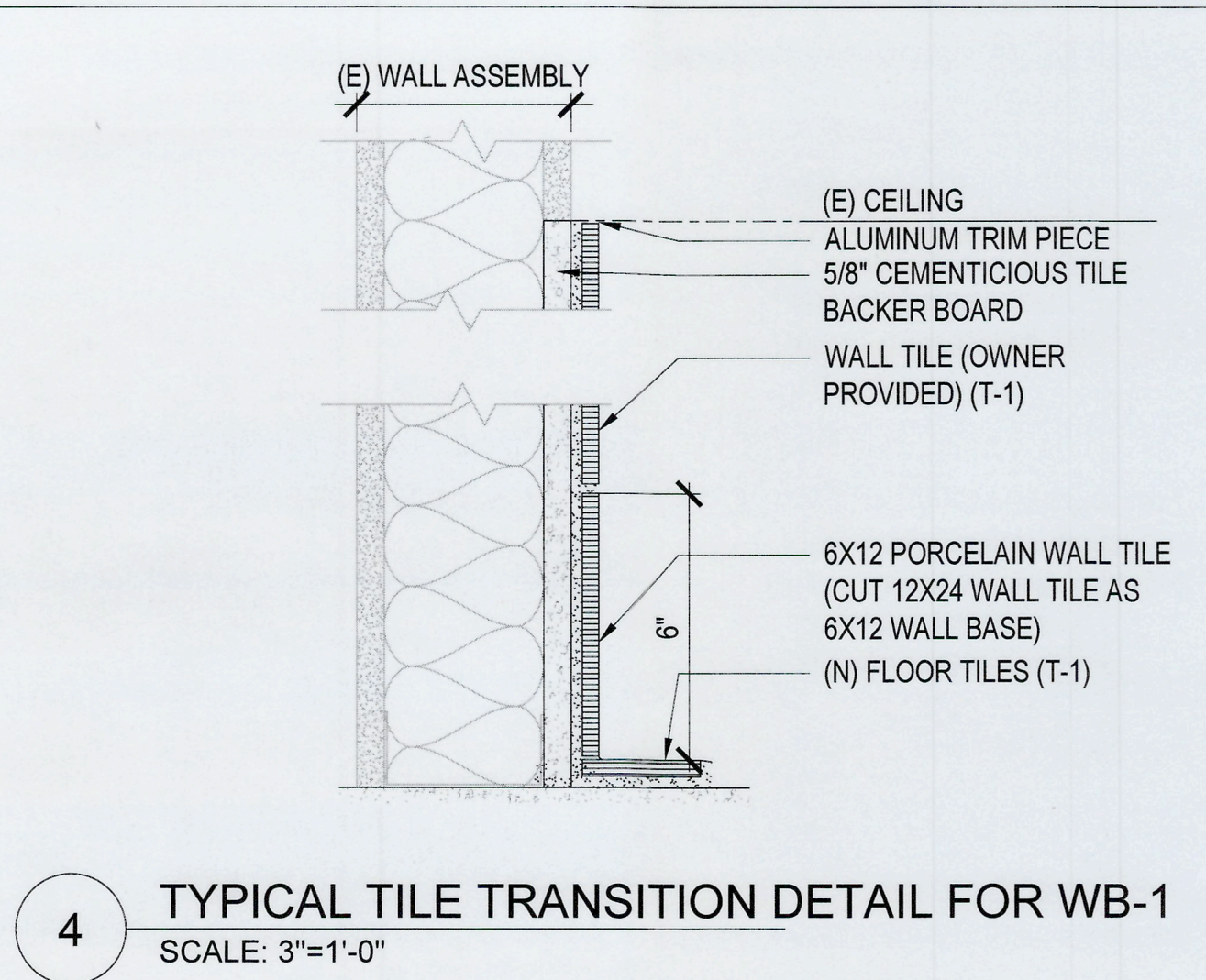
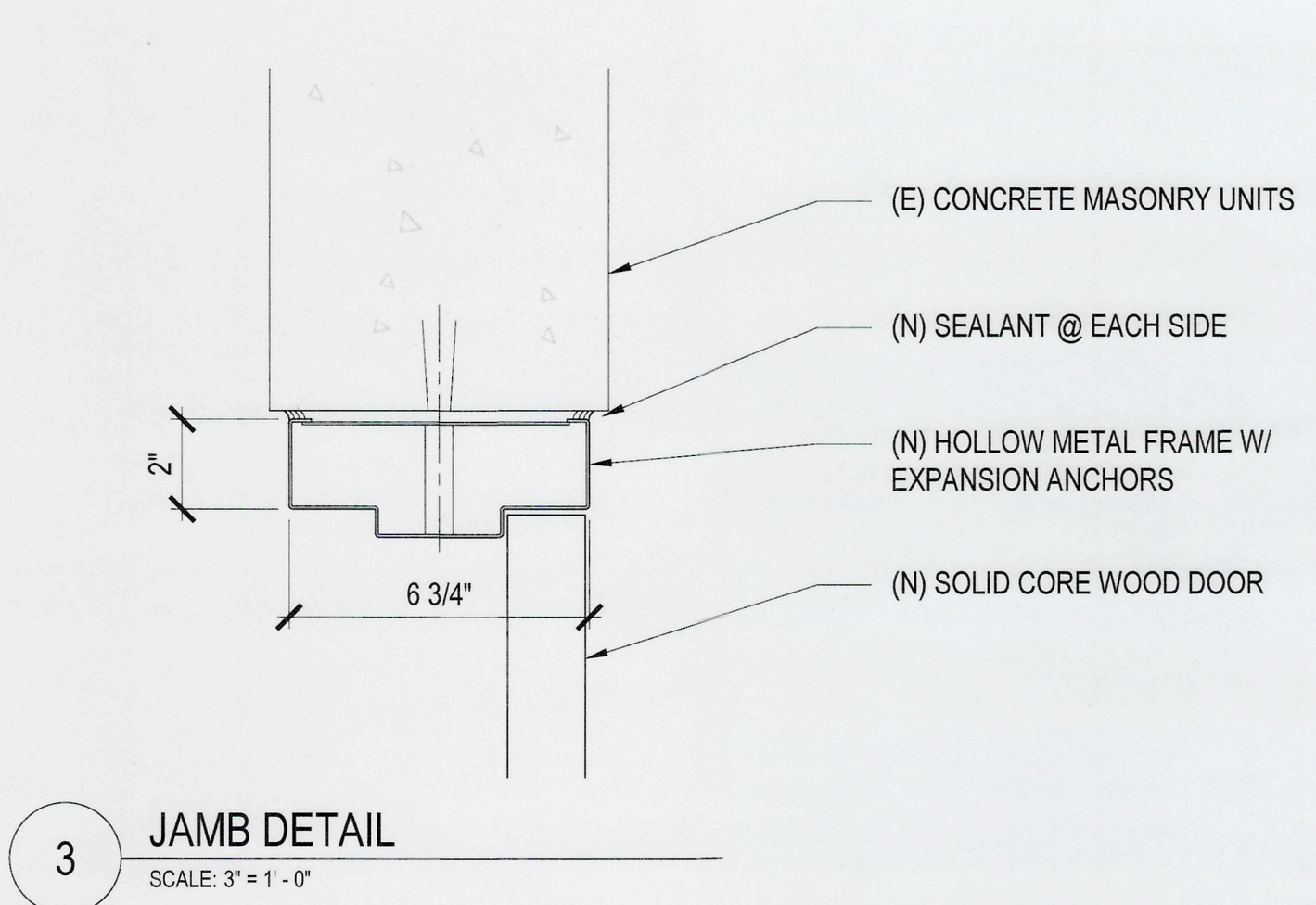
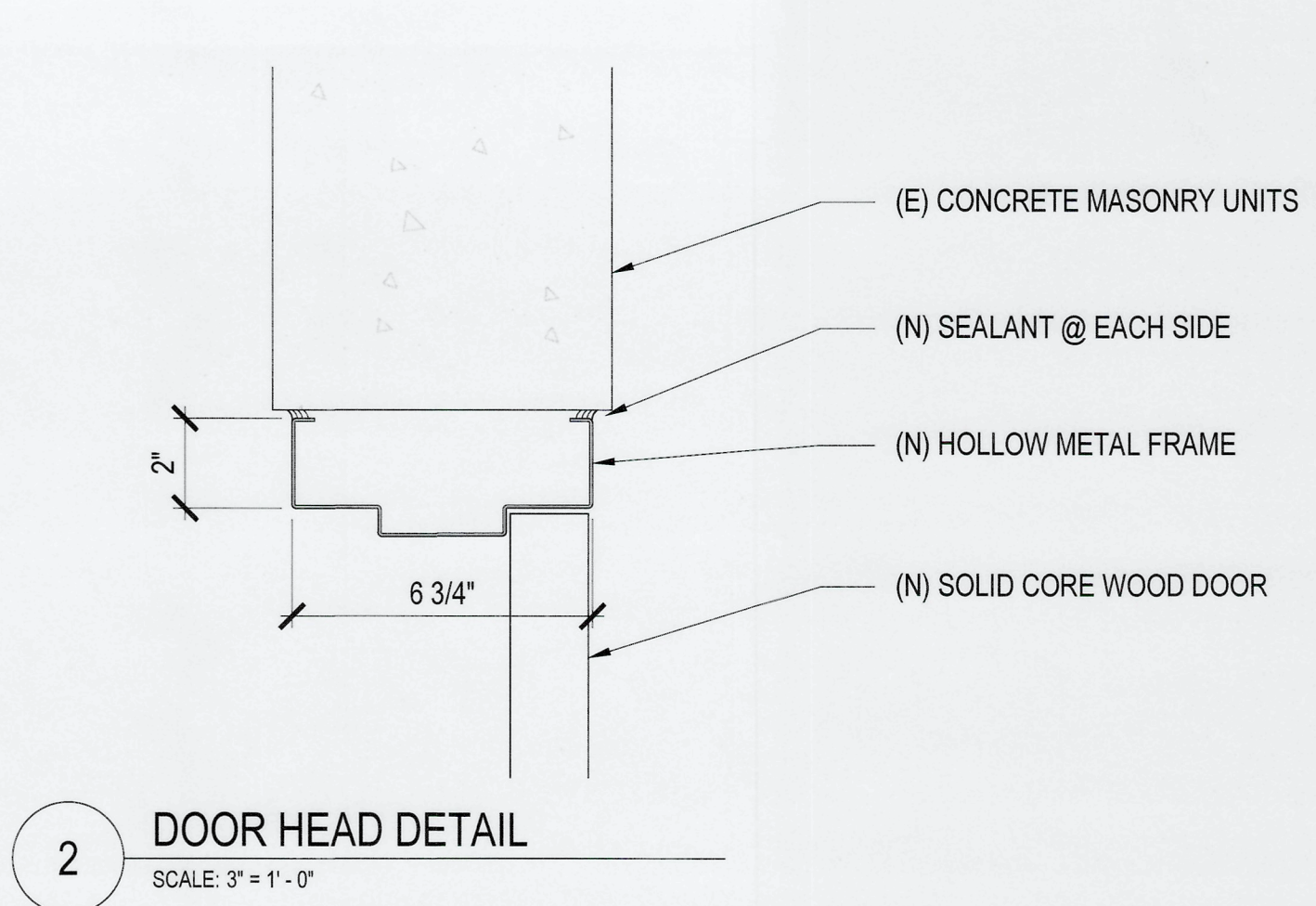
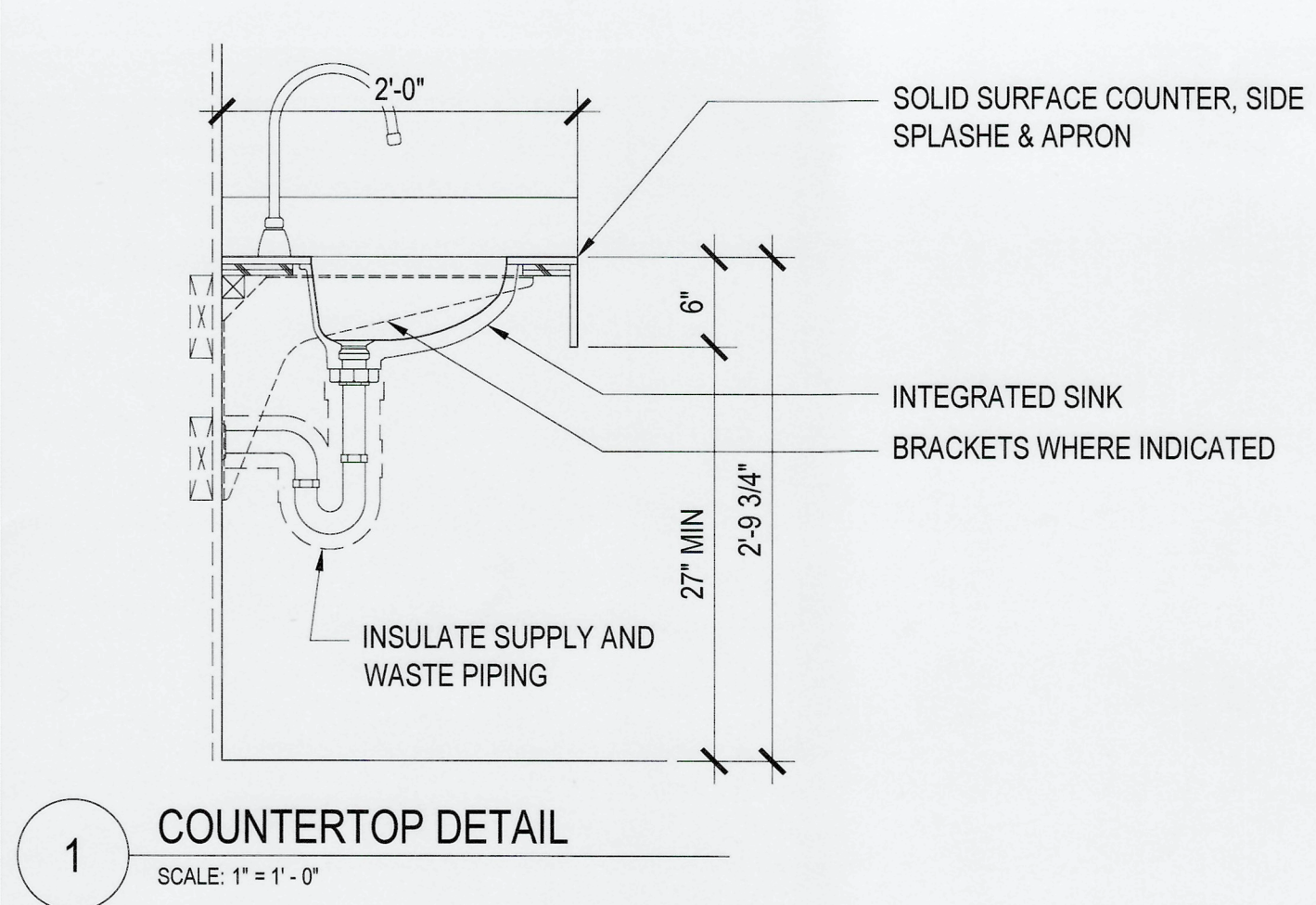


6711 A3.1 6 OF 23	FAB CENTER 1ST FLOOR TOILET RENOVATION REFLECTED CEILING PLAN		APPROVED: <i>[Signature]</i> DIRECTOR ENG. DATE: Mar 17, 2025		CHECKED BY: [] DATE: []	
	TOWNSHIP: 20N	RANGE: 02	SECTION: 3E	PRINTED BY: Mar 17, 2025	TACOMA, WA 98401-1837	
CONT/CONS: PORT-PA-000000298	DATE: 101648.01	DATE-HRZ: NAB032011 WASF	VERT: MLLW 1983-2001	PORT ADDRESS: ONE SITCUM PLAZA		
M. ID: 101648.01	PARCEL: 0320024113	DRAWING SCALE: AS NOTED	TACOMA, WA 98401-1837			
PHASE: BID SET	PARCEL: 0320024113		TACOMA, WA 98401-1837			

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 Seattle WA 98134 P: 206.920.6348
 MARK: REVISION: [] BY: [] DATE: []

REGISTERED ARCHITECT
 AMY OLSON
 LICENSE NO. 000000000000000000
 STATE OF WASHINGTON

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5 TYPICAL COVE BASE DETAIL FOR WB-2
SCALE: 3"=1'-0"

6 SIGNAGE DETAIL
SCALE: 3"=1'-0"

7 SIGNAGE MOUNTING DETAIL
SCALE: 3/4"=1'-0"

8 DOOR TYPES
SCALE: 1/2"=1'-0"

ROOM FINISH SCHEDULE														
ROOM NUMBER	ROOM NAME	FLOOR FINISH	WALL BASE				WALL FINISH				CEILING	COMMENTS		
			N	S	E	W	N	S	E	W				
01-FC-C	WOMEN'S RESTROOM	T-1	WB-1	WB-2	WB-2	WB-1	WB-2	T-1	PT-1	PT-1	PT-1	T-1	(E)	REPLACE CEILING PANELS AS REQUIRED AFTER WING WALL DEMO
01-FC-B	MEN'S RESTROOM	T-1	WB-2	WB-1	WB-2	WB-1	WB-2	PT-1	T-1	PT-1	PT-1	T-1	(E)	

DOOR SCHEDULE										
ROOM #	MARK	FRAME			DOOR				HARDWARE	REMARKS
		MATL.	TYPE	DETAIL	SIZE	TYPE	MATL.	FIN.		
01-FC-C	D-1	HM	F1	JAMB 3/A5.1 HEAD 2/A5.1	36" X 84"	A	SOLID CORE WOOD	PAINT	1	1. NEW DOOR AND FRAME TO MATCH EXISTING FIRE RATING 2. DOOR VENEER AND FINISH TO MATCH EXISTING DOORS. EXISTING DOORS ARE STAINED AND HAVE CLEAR FINISH.
01-FC-B	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	1. INSTALL NEW AUTOMATIC DOOR OPENER

GENERAL NOTES:

- DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.
- THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE SHALL BE AS FOLLOWS:
 - INTERIOR HINGED DOORS AND GATES: 5 POUNDS MAXIMUM.
 - INTERIOR SLIDING OR FOLDING DOORS: 5 POUNDS MAXIMUM.
 - EXTERIOR HINGED, SLIDING, OR FOLDING DOOR: 10 POUNDS MAXIMUM.

FINISH MATERIALS SCHEDULE				
MARK	MANUFACTURER	COLOR/STYLE	SIZE	COMMENTS
T-1	DALTILE	CH 25 FORT GREY	12x24	OWNER PROVIDED
WB-1	DALTILE	CH 25 FORT GREY	6x12	CUT WALL TILE TO SIZE 6X12 (OWNER PROVIDED)
WB-2	DALTILE	CH 25 FORT GREY COVE BASE	6x12	OWNER PROVIDED
GROUT	DALTILE	DARK GREY		
PT-1	SHERWIN WILLIAMS	SW 7551 GREEK VILLA		OWNER SELECTED
SSC-1	DUPONT CORIAN	ANTARCTICA		
ACT-1	ARMSTRONG	TEGULAR CEILING PANELS	24"x24"	TO MATCH EXSITING
TOILET PARTITIONS	SCRANTON	HINY HIDERS SHALE - ORANGE PEEL	55" HIGH	FLOOR MOUNTED OVERHEAD BRACED

ABBREVIATIONS	
ACT	ACOUSTICAL CEILING TILES
E	EAST
(E)	EXISTING
N	NORTH
PT	PAINT
S	SOUTH
SS	STAINLESS STEEL
SSC	SOLID SURFACE COUNTERTOP
T	TILE
W	WEST
WB	WALL BASE

P.O. BOX 1837 TACOMA, WA 98401-1837
 APPR: DATE:

LOAI ARCHITECTURE + PLANNING
 1001 SW Klickitat Way, Suite 204
 Seattle WA 98134 P: 206.920.6348
 MARK: REVISION: BY:

6322 REGISTERED ARCHITECT AMY OLSON STATE OF WASHINGTON

CHECKED BY:	DATE:	PROJ. ENGR:	DATE:
<i>Amy Olson</i>		Mar 17, 2025	
DIRECTOR ENG. DATE:		PRINTED BY: Mar 17, 2025	
TACOMA, WA 98401-1837		PORT ADDRESS: ONE SITCUM PLAZA	

FAB CENTER 1ST FLOOR TOILET RENOVATION
 DETAILS, DOOR TYPES AND SCHEDULES
 6711 **A5.1** OF 23
 M. ID: 101648.01
 PHASE: BID SET

TOWNSHIP: 20N RANGE: 02 SECTION: 3E
 MLLW 1983-2001
 DAT-HRZ: 03/20/24 13 VERT:
 PARCEL: 0320024113 DRAWING SCALE: AS NOTED

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OTHER CODE NOTES

INTERNATIONAL BUILDING CODE

- PROVIDE SEISMIC BRACING AND SUPPORTS IN ACCORDANCE WITH THE 2021 IBC FOR SEISMIC DESIGN CATEGORY D AND BASED ON A SEISMIC IMPORTANCE FACTOR OF 1.0 FOR ALL SYSTEMS.
- THROUGH PENETRATIONS OF FIRE-RESISTANCE RATED ASSEMBLIES SHALL COMPLY WITH 2021 IBC SECTION 714.4.1 AND 714.5.1. REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATIONS, MEMBRANE PENETRATIONS OF FIRE RESISTANCE RATED WALLS AND ASSEMBLIES SHALL COMPLY WITH 2021 IBC SECTIONS 714.4.2 AND 714.5.2.
- PROTECT ALL DUCT OPENINGS OF FIRE RATED ASSEMBLIES PER 2021 IBC SECTION 716.

UNIFORM PLUMBING CODE

- CLEANOUTS SHALL BE LOCATED IN HORIZONTAL WASTE PIPING AS REQUIRED BY 2021 UPC WITH WASHINGTON STATE AMENDMENTS SECTION 707.4, INCLUDING ONE AT EACH UPPER TERMINAL, EACH CHANGE OF DIRECTION THAT IS GREATER THAN 135° AND IN RUNS GREATER THAN 100 FEET IN LENGTH.
- FIXTURES LOCATED ON A FLOOR LEVEL THAT IS BELOW THE NEXT UPSTREAM MANHOLE OR BELOW THE MAIN SEWER LEVEL SHALL BE PROVIDED WITH BACKWATER VALVES AS REQUIRED BY 2021 UPC SECTION 710.1.
- DOMESTIC WATER PIPE SIZING IS BASED ON THE CODE REQUIRED MAXIMUM VELOCITIES PER 2021 UPC SECTION 610.12.1 OF 8 FEET PER SECOND FOR COLD AND 5 FEET PER SECOND FOR HOT WATER PIPING AND ASSUMING COPPER PIPE SIZES. THE USE OF ALTERNATE MATERIALS SHALL BE COORDINATED WITH THE SPECIFIC MANUFACTURER'S INSTRUCTIONS FOR RECOMMENDED SIZING PRACTICES AND SIZING SHALL BE INCREASED AS NEEDED. PLANS PROVIDE MINIMUM PIPE SIZES, REGARDLESS OF MATERIALS.
- SANITARY WASTE PIPING SHALL BE INSTALLED AT 1/4" PER FOOT SLOPE AWAY FROM FIXTURES UNLESS NOTED OTHERWISE ON THE FLOOR PLANS.
- PIPING IN CONNECTION WITH A PLUMBING SYSTEM SHALL BE SO INSTALLED THAT PIPING OR CONNECTIONS WILL NOT BE SUBJECT TO UNDE STRAINS OR STRESSES, AND PROVISIONS SHALL BE MADE FOR EXPANSION, CONTRACTION, AND STRUCTURAL SETTLEMENT. JOINTS AROUND PIPING PASSING THROUGH CONCRETE FLOORS ON THE GROUND SHALL BE SEALED AS REQUIRED BY 2021 UPC SECTION 312.1.
- HOT WATER TANKS SHALL BE PROVIDED WITH TEMPERATURE AND PRESSURE RELIEF VALVES THAT DISCHARGE INDEPENDENTLY, INDIRECTLY AND BY GRAVITY AS REQUIRED BY 2021 UPC WITH WASHINGTON STATE AMENDMENTS SECTION 609.6.
- SUDS RELIEF SHALL BE PROVIDED AS REQUIRED BY 2021 UPC SECTION 711.1 WITH AT LEAST 8' OF UNAPPED HORIZONTAL WASTE PIPING FOLLOWING A RISER THAT SERVICES SUDS PRODUCING FIXTURES AND SERVES AT LEAST 3 FLOORS, INCLUDING WASTE STACKS THAT SERVE BATHTUBS, LAUNDRIES, KITCHEN SINKS AND/OR DISHWASHERS.

MECHANICAL ENERGY CODE NOTES

- MECHANICAL SYSTEMS HAVE BEEN DESIGNED PER THE REQUIREMENTS OF THE FOLLOWING CODES:
 - 2021 WASHINGTON STATE ENERGY CODE (WAC) CHAPTER 51-11C
 - 2021 INTERNATIONAL BUILDING CODE WITH WASHINGTON STATE AMENDMENTS (WAC CHAPTER 51-50)
 - 2021 INTERNATIONAL MECHANICAL CODE WITH WASHINGTON STATE AMENDMENTS (WAC CHAPTER 51-52)
 - 2021 UNIFORM PLUMBING CODE WITH WASHINGTON STATE AMENDMENTS (WAC CHAPTER 51-56)
 - 2021 INTERNATIONAL FUEL GAS CODE WITH WASHINGTON STATE AMENDMENTS (WAC CHAPTER 51-52)
 - 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

- MECHANICAL PIPING, IF EXPOSED TO THE ENVIRONMENT, SHALL BE PROTECTED AND ALL MECHANICAL PIPING SHALL BE INSULATED AS REQUIRED BY 2021 WSEC SECTION C403.10.3 AND AS FOLLOWS:
 - o REFER TO THE PROJECT SPECIFICATIONS FOR REQUIREMENTS THAT MAY BE MORE STRINGENT THAN THE CODES.
 - o PROVIDE AN ADDITIONAL 1" OF PIPE INSULATION THICKNESS TO THE TABULATED CODE REQUIREMENT FOR ALL DOMESTIC HOT WATER RECIRCULATION PIPING AS REQUIRED BY 2021 WSEC SECTION C404.7.3.1.
 - o PIPE INSULATION FOR DOMESTIC HOT WATER PIPING SHALL BE PROVIDED AS REQUIRED BY 2021 UPC SECTION 609.12. INSULATION THICKNESS SHALL BE EQUAL OR GREATER THAN THE PIPE DIAMETER FOR SIZES UP TO 2". PIPING LARGER THAN 2" SHALL BE PROVIDED WITH NO LESS THAN 2" INSULATION THICKNESS.

- DOMESTIC HOT WATER SYSTEMS SHALL BE DESIGNED TO COMPLY WITH MAXIMUM PIPE LENGTHS OR VOLUMES AS REQUIRED BY 2021 WSEC SECTION C404.3.
- CIRCULATED AND HEAT TRACED HOT WATER SYSTEMS SHALL BE PROVIDED WITH ACCESSIBLE, AUTOMATIC SETBACK AND/OR SHUT-OFF CONTROLS AS REQUIRED BY 2021 WSEC SECTION C404.7.

- FUNCTIONAL TESTING OF MECHANICAL SYSTEMS SHALL BE PROVIDED BY DIVISION 23 TO ENSURE PROPER OPERATION IN ALL SEQUENCES OF OPERATIONS INCLUDING POWER FAILURE AS REQUIRED BY 2021 WSEC SECTION C408.1.2.2.

- COPIES OF ALL APPLICABLE SERVICE AND EQUIPMENT DATA, AND PROJECT DOCUMENTATION THAT RELATES, SHALL BE PROVIDED TO THE BUILDING OWNER AND/OR THEIR REPRESENTATIVES WITHIN 90 DAYS OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY AS REQUIRED BY 2021 WSEC SECTION C103.8 INCLUDING:
 - RECORD DRAWINGS DEPICTING FINAL INSTALLATION CONFIGURATIONS OF SYSTEMS AND EQUIPMENT
 - OPERATION AND MAINTENANCE MANUALS INCLUDING MANUFACTURER'S INFORMATION ON SPECIFIC MODEL NUMBERS AND OPTIONS INSTALLED, CONTROLS DATA INCLUDING CALIBRATION AND DESIGN SETPOINT INFORMATION, AND RECOMMENDED MAINTENANCE SCHEDULE WITH A REPUTABLE SERVICE CONTRACTOR'S CONTACT INFORMATION.
 - REPORTS SUCH AS AIR AND WATER BALANCING, START-UP AND/OR PRESSURE TESTING DATA AS APPLICABLE.
 - TRAINING OF THE MAINTENANCE STAFF SHALL BE PROVIDED, INCLUDING REVIEW OF DOCUMENTATION, HANDS-ON DEMONSTRATION OF OPERATION AND START-UP PROCEDURES AS WELL AS A TRAINING COMPLETION REPORT.

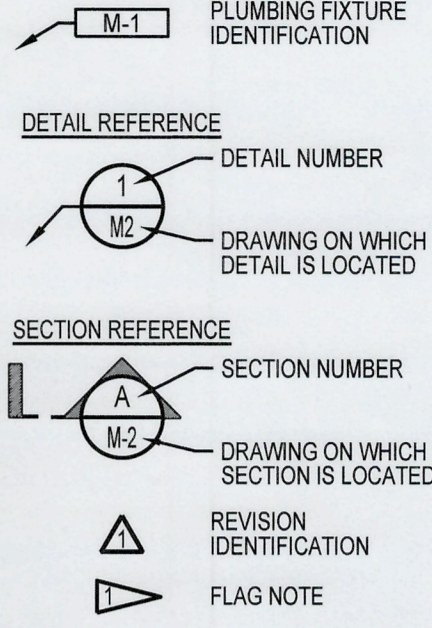
GENERAL NOTES

- THE FOLLOWING NOTES APPLY TO ALL MECHANICAL DRAWINGS. ADDITIONAL MECHANICAL NOTES MAY BE INDICATED ON EACH MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWING. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL DETAILS.
- REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR GENERAL CONSTRUCTION INCLUDING LOUVERS, CONCRETE EQUIPMENT PADS, FLASHING DETAILS, ETC.
- INSTALL ALL PIPING ON ROOM SIDE OF BUILDING INSULATION.
- ENGINEERED DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT NECESSARILY REFLECT EVERY REQUIRED OFFSET, FITTING OR ACCESSORY. REFER TO SYSTEM SCHEMATIC DIAGRAMS FOR ADDITIONAL DESIGN INFORMATION INCLUDING VALVE SIZES AND LOCATIONS.
- THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BEGINNING WORK IN ORDER TO OBSERVE EXISTING CONDITIONS, VERIFY EXACT SIZE, LOCATION AND CONDITION OF ALL EXISTING SYSTEMS, DUCTS, PIPES, UTILITIES AND BUILDING STRUCTURE. VERIFY VOLTAGES AT THE SITE PRIOR TO ORDERING ANY EQUIPMENT.
- REFER TO ARCHITECTURAL DRAWINGS FOR ROOM ELEVATIONS AND PLUMBING FIXTURE MOUNTING HEIGHTS. LOCATE MECHANICAL DEVICES SUCH AS THERMOSTATS, PANELS, ETC. SO THAT THEY DO NOT CONFLICT WITH GENERAL CONSTRUCTION, OR ELECTRICAL SYSTEM (LIGHT SWITCHES, PANELS, OUTLETS, ETC.).
- REFER TO PIPING DIAGRAMS AND DETAILS FOR REQUIRED FITTINGS, VALVES, ETC. FLOOR PLANS AND SECTIONS INDICATE EQUIPMENT LOCATIONS AND GENERAL PIPE ROUTING ONLY. PROVIDE PIPING SHOP DRAWINGS COORDINATED WITH OTHER TRADES. REFER TO SPECIFICATIONS FOR ADDITIONAL SHOP DRAWING REQUIREMENTS.

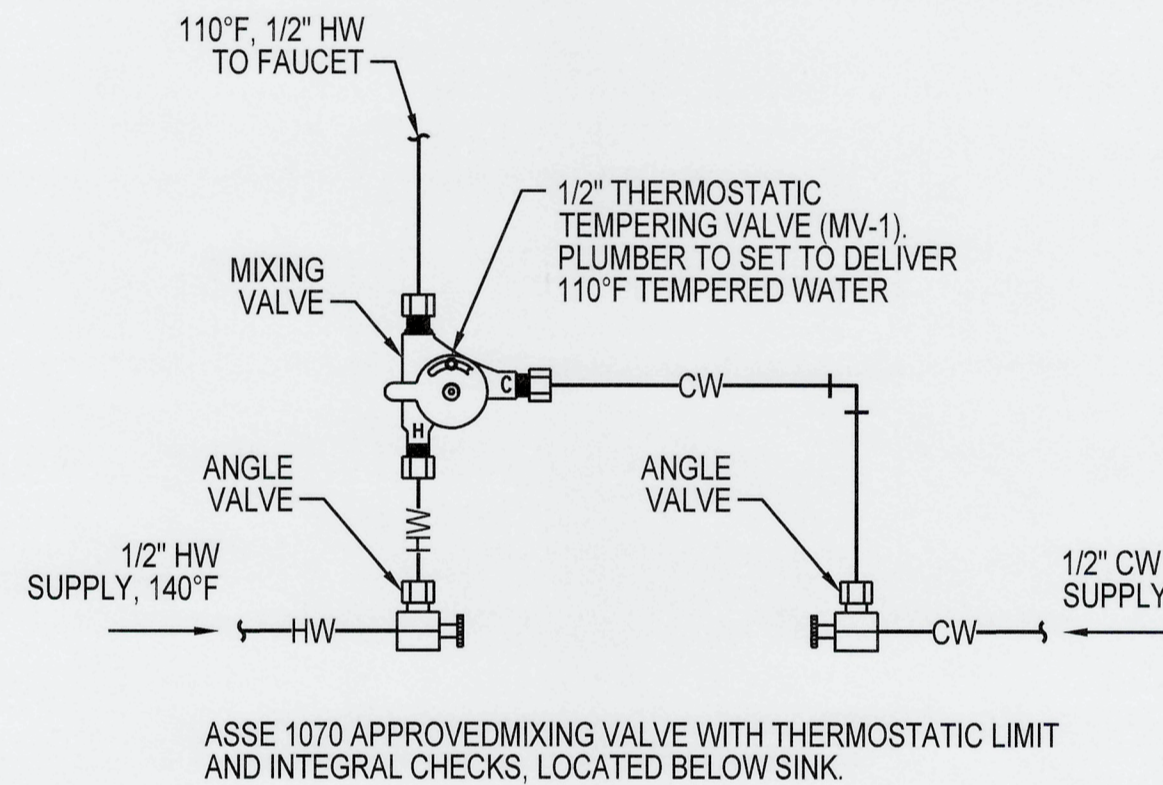
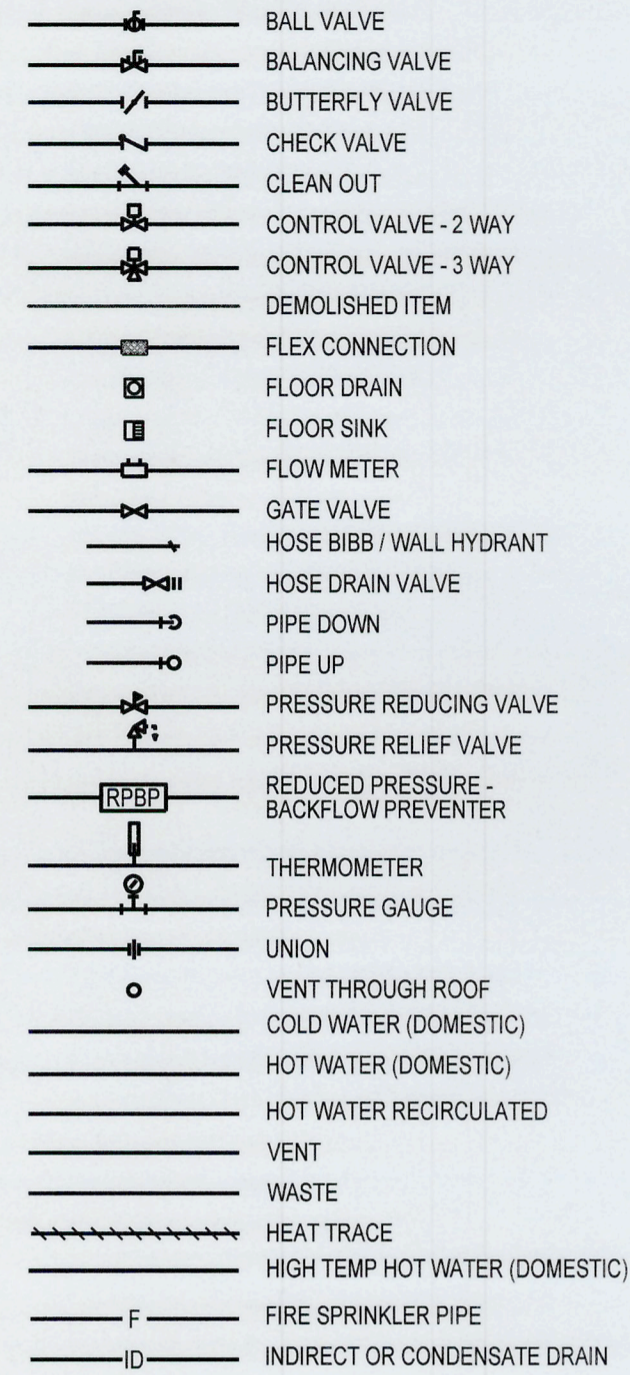
ABBREVIATIONS

ADA	ACCESSIBLE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
ARCH	ARCHITECT / ARCHITECTURAL
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BOD	BASIS OF DESIGN
CL	CENTER LINE
CLG	CEILING
CO	CLEANOUT
CONN	CONNECTION
CONT	CONTINUATION
CW	DOMESTIC COLD WATER
Ø	DIAMETER
DEG F	DEGREES IN FAHRENHEIT
DELTA P	PRESSURE DIFFERENCE
DELTA T	TEMPERATURE DIFFERENCE
DEMO	DEMOLISH OR DEMOLITION
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DIV	DIVISION
DN	DOWN
DWG	DRAWING
DWW	DOMESTIC WASTE AND VENT
(E)	EXISTING ITEMS
EACH	EACH
EA	EFFICIENCY / EFFICIENT
ETC	ET CETERA
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FOOT OR FEET	FOOT OR FEET
FT WG	FEET OF WATER GAGE PRESSURE
FU	FIXTURE UNITS
FV	FLUSH VALVE
GA	GAUGE
GAL	GALLONS
GALV	GALVANIZED
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GV	GATE VALVE
H	HEIGHT
H2O	WATER
HDPE	HIGH DENSITY POLYETHYLENE
HR	HOUR
HW	DOMESTIC HOT WATER
HWC	DOMESTIC HOT WATER CIRCULATED
ID	INSIDE DIAMETER
IN	INVERT ELEVATION
IN	INCHES
L	LENGTH
LBS	POUNDS
LF	LINEAR FOOT
LVLAV	LAVATORY
MAX	MAXIMUM
MIN	MINUTES OR MINIMUM
NA/NA	NOT APPLICABLE
NO	NUMBER
NOM	NOMINAL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
REQD	REQUIRED
RRBP	REDUCED PRESSURE BACKFLOW PREVENTER
SK	SINK
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STD	STANDARD
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
TSTAT	THERMOSTAT
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES UNLESS NOTED OTHERWISE
UNO	UNIFORM PLUMBING CODE
UPC	UNIFORM PLUMBING CODE
V	VENT
VEL	VELOCITY
VTR	VENT THROUGH ROOF
W	WASTE, WATTS OR WIDTH
WB	WET BULB TEMPERATURE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WG	WATER GAUGE
WHA	WATER HAMMER ARRESTOR
WSFU	WATER SUPPLY FIXTURE UNITS

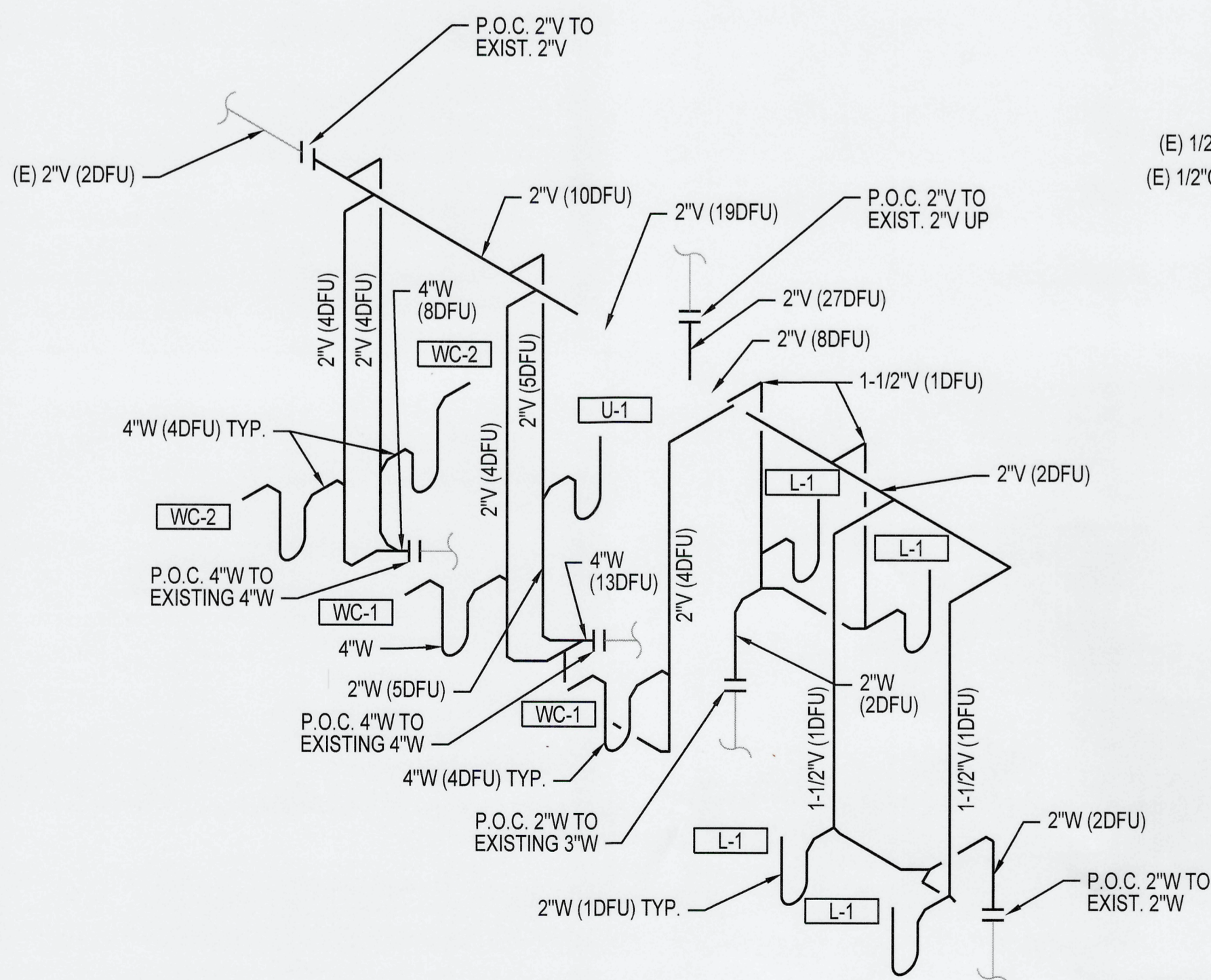
GENERAL SYMBOLS



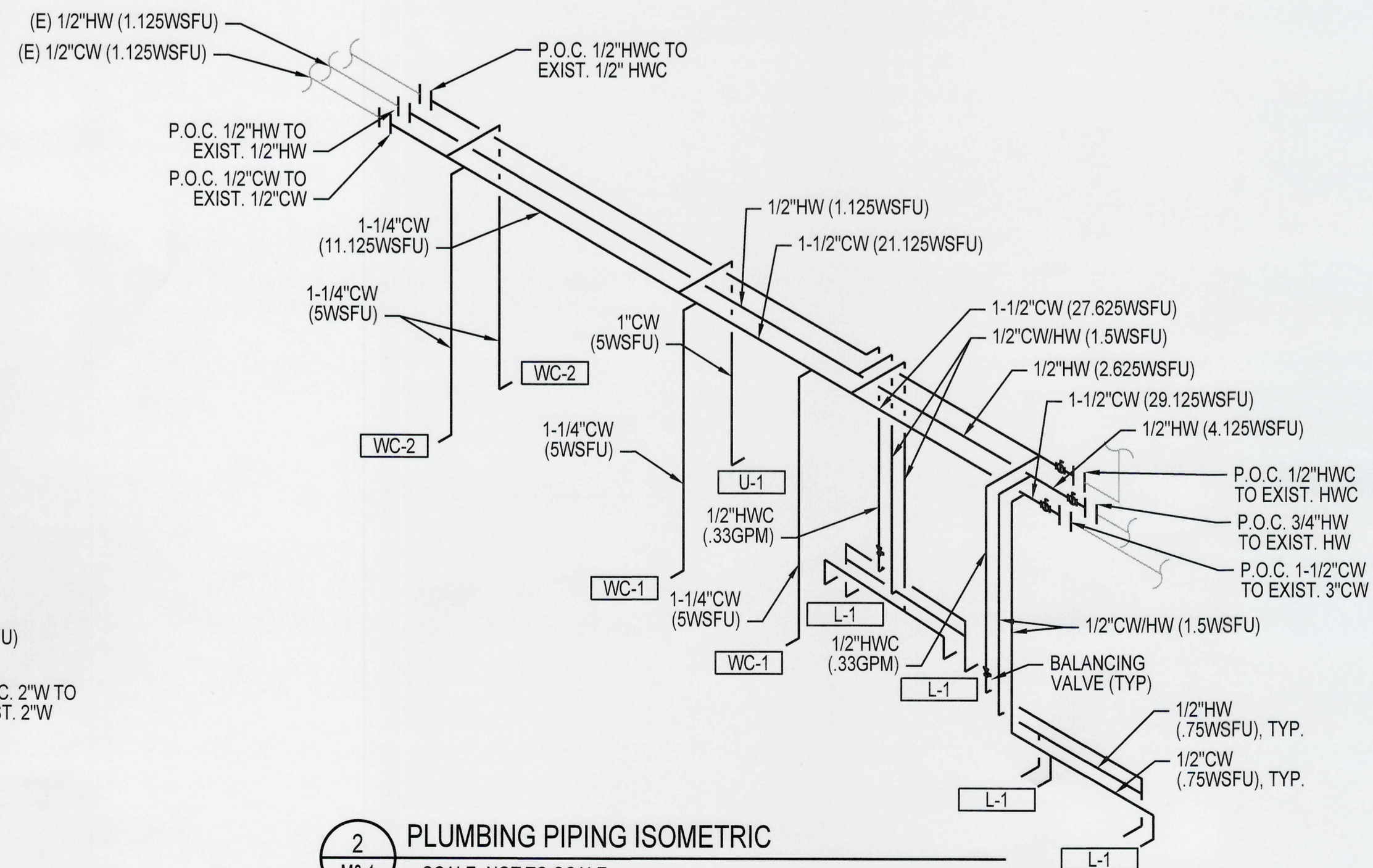
PIPING SYMBOLS



1 HANDWASH SINK TEMPERING VALVE DETAIL
SCALE: NONE



3 DRAINAGE, WASTE AND VENT PIPING ISOMETRIC
SCALE: NOT TO SCALE



2 PLUMBING PIPING ISOMETRIC
SCALE: NOT TO SCALE

DRAWING INDEX	
#	DESCRIPTION
M0.1	MECHANICAL NOTES, LEGEND, AND INDEX
M0.2	MECHANICAL EQUIPMENT SCHEDULES
M1.1	PLUMBING DEMOLITION PLANS
M2.1	PLUMBING PLANS

Port of Tacoma

ARCHITECTURE
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1001 SW Klickitat Way, Suite 204
Seattle WA 98134 P: 206.920.6348

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APPROVED:		PRINTED BY:	BPE MAR 14, 2025
DIRECTOR ENG. DATE		PORT ADDRESS: ONE SITCUM PLAZA	
TACOMA, WA 98401-1837		DRAWING SCALE: NTS	

6711

M0.1

9 OF 23

CONTR/CONS: PORT-PA-000000298

M. ID: 101648.01

PHASE: BID SET

TOWNSHIP: 20N

DAI-HRZ-MAR2025/11/WSF

PARCEL: 032002413

SECTION: 3E

MLLW 1983-2001

DR: 02

SCALE: NTS

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PLUMBING FIXTURE SCHEDULE

GENERAL PLUMBING FIXTURE NOTES:

1. FIXTURE DESCRIBED IS THE BASIS OF DESIGN AND MAY BE SUBSTITUTED FOR APPROVED EQUAL OR BETTER PRODUCT. REFER TO APPROVED PLUMBING SUBMITTALS FOR FINAL FIXTURE SELECTIONS.
2. EXTEND AND CONNECT PIPING TO ALL PLUMBING FIXTURES. FURNISH COMPLETE AND FUNCTIONAL SYSTEM.
3. COORDINATE ALL FINAL TRIM AND OPTIONS WITH ARCHITECT, INCLUDING COLORS, FINISHES HEIGHTS & LOCATIONS OF ALL FIXTURES, INCLUDING THOSE LOCATIONS THAT ARE REQUIRED TO BE ACCESSIBLE.
4. WASTE AND VENT PIPE SIZES SHOWN ARE MINIMUMS, LARGER SIZES MAY BE USED.
5. FIXTURE UNIT VALUES ARE BASED ON THE 2021 UNIFORM PLUMBING CODE.

TAG	SYMBOL	FIXTURE	W	V	CW	HW	DESCRIPTION	SUPPLY FIXTURE UNITS	CWFU	HWFU	DFU	NOTES
WCO	⊥	WALL CLEANOUT	AS SHOWN	--	--	--	WALL CLEANOUT WITH CAST-IRON BODY, GAS AND WATERTIGHT ABS TAPERED THREAD PLUG, ROUND AND SMOOTH STAINLESS STEEL COVER WITH SECURING SCREW. ZURN Z1446.	--	--	--	--	--
L-1	☐	ACCESSIBLE LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	BOWL: VITREOUS CHINA RECTANGULAR COUNTERTOP LAVATORY, WITH OVERFLOW, 21"x17", PROFLO HOFFMAN MODEL PF211181WH. FAUCET: TOUCHLESS PROGRAMMABLE FAUCET WITH ABOVE DECK ELECTRONICS, CHICAGO 116707.AB.1 OR APPROVED EQUAL. 0.35 GPM VANDAL PROOF PRESSURE COMPENSATING NON-AERATING OUTLET. HARDWIRED BY DIVISION 26. PROVIDE WITH ASSE 1070 THERMOSTATIC MIXING VALVE SET TO 110°F. COORDINATE WITH ARCHITECT FOR SOAP DISPENSER. GRID STRAINER: KOHLER K-13885 AND OFFSET TAILPIECE. MOUNTED IN ACCORDANCE WITH ADA AND ALL FEDERAL ACCESSIBILITY STANDARDS.	1 x 4	0.75 x 4	0.75 x 4	1 x 4	2, 3
U-1	☐	ACCESSIBLE URINAL	2"	2"	1"	--	WALL-MOUNTED, WASHDOWN, VITREOUS CHINA URINAL. 3/4" TOP SPUD AND 2" OUTLET SPUD. KOHLER K-4991-ET. FLUSHOMETER: HARDWIRED AUTOMATIC SENSOR FLUSH VALVE, 0.125 GALLONS PER FLUSH, ZURN MODEL ZEMS6003AV-IS-MOB. FLUSHOMETER TO INCLUDE CLOG RESISTANT BYPASS, VACUUM BREAKER, HARDWIRED POWER CONVERTER, AND MANUAL OVERRIDE BUTTON. APPROVED VACUUM BREAKER PER UPC 412.2, AND WALL CLEANOUT ABOVE FIXTURE CONNECTION FITTING PER UPC 707.4. HARDWIRED BY DIVISION 26. PROVIDE WALL CARRIER AS REQUIRED TO FIT WITHIN EXISTING CHASE. WATERSENSE CERTIFIED. COORDINATE WITH ARCHITECT FOR COLORS/FINISHES.	4	4	--	2	2, 3, 4
WC-1	☐	WATER CLOSET	4"	2"	1-1/2"	--	WALL-MOUNTED VITREOUS CHINA FLUSH VALVE WATER CLOSET. ELONGATED BOWL, TOP SPUD. KOHLER KINGSTON K-84325-SS. FLUSHOMETER: HARDWIRED AUTOMATIC SENSOR FLUSH VALVE, 1.28 GALLONS PER FLUSH, ZURN MODEL ZEMS6000AV-MOB-W1. FLUSHOMETER TO INCLUDE CLOG RESISTANT BYPASS, VACUUM BREAKER, MANUAL OVERRIDE BUTTON, HARDWIRED POWER CONVERTER. RECESSED WALL BOX AND VANDAL RESISTANT CAP. HARDWIRED BY DIVISION 26. PROVIDE WITH ELONGATED, OPEN PLASTIC TOILET SEAT, BEMIS 1955CT. PROVIDE WALL CARRIER AS REQUIRED TO FIT WITHIN EXISTING CHASE. WATERSENSE CERTIFIED. COORDINATE WITH ARCHITECT FOR COLORS/FINISHES.	5 x 2	5 x 2	--	4 x 2	2, 3, 4
WC-2	☐	ACCESSIBLE WATER CLOSET	4"	2"	1-1/2"	--	WALL-MOUNTED VITREOUS CHINA FLUSH VALVE WATER CLOSET. ELONGATED BOWL, TOP SPUD. KOHLER KINGSTON K-84325-SS. FLUSHOMETER: HARDWIRED AUTOMATIC SENSOR FLUSH VALVE, 1.28 GALLONS PER FLUSH, ZURN MODEL ZEMS6000AV-MOB-W1. FLUSHOMETER TO INCLUDE CLOG RESISTANT BYPASS, VACUUM BREAKER, MANUAL OVERRIDE BUTTON, HARDWIRED POWER CONVERTER. RECESSED WALL BOX AND VANDAL RESISTANT CAP. HARDWIRED BY DIVISION 26. PROVIDE WITH ELONGATED, OPEN PLASTIC TOILET SEAT, BEMIS 1955CT. PROVIDE WALL CARRIER AS REQUIRED TO FIT WITHIN EXISTING CHASE. WATERSENSE CERTIFIED. COORDINATE WITH ARCHITECT FOR COLORS/FINISHES. MOUNT IN ACCORDANCE WITH ADA AND ALL FEDERAL ACCESSIBILITY STANDARDS.	5 x 2	5 x 2	--	4 x 2	2, 3, 4
TOTALS								28	27	3	22	

FIXTURE SPECIFIC NOTES:

1. PROVIDE WITH WATER BASED TRAP PRIMER FOR TRAPS BELOW THE SLAB ON GRADE OR OTHERWISE INACCESSIBLE.
2. ELECTRICAL CONNECTION SHALL BE PROVIDED BY DIVISION 26.
3. SINK AND LAVATORY VALVES SHALL BE ASSE 1070 LISTED FOR TEMPERATURE LIMITING DEVICES (AKA ANTI-SCALD VALVE).
4. PROVIDE WITH WATER HAMMER ARRESTOR ON COLD WATER SUPPLY BRANCH.

PLUMBING PIPING & EQUIPMENT INSULATION SCHEDULE

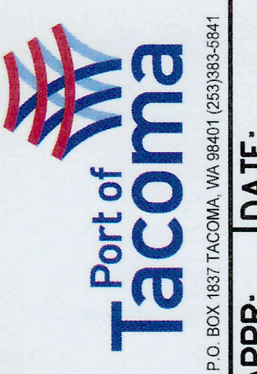
PIPING SYSTEM	TEMP RANGE °F	THERMAL COND BTU * IN / (HR * SF * °F)	MEAN TEMP RATING °F	INSULATION MATERIAL	MINIMUM INSULATION THICKNESS (INCHES) BY PIPE SIZE (INCHES)					NOTES
					< 1"	1" TO < 1-1/2"	1-1/2" TO < 4"	4" TO < 8"	> 8"	
ALL DOMESTIC COLD WATER	40-65	0.21 - 0.27	75	FIBERGLASS	0.5	0.5	1.0	1.0	1.0	1, 2
ALL DOMESTIC HOT WATER	105-140	0.21 - 0.28	100	FIBERGLASS	1.0	1.0	1.5	1.5	1.5	1, 3, 4

NOTES:

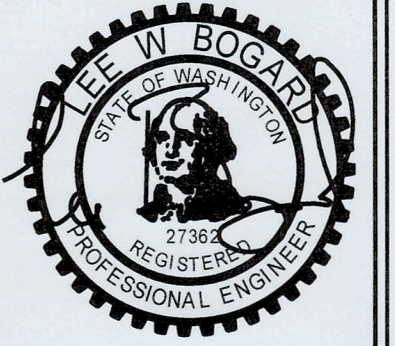
1. FOR HOT AND COLD PIPING LARGER THAN 2", UTILIZE RIGID INSERTS, INSULATION THROUGH THE HANGER, SHEET METAL SHIELD.
2. FOR COLD PIPES 2" AND SMALLER, UTILIZE RIGID INSERTS, INSULATION CONTINUOUS THROUGH THE HANGER, SHEET METAL SHIELD.
3. PROVIDE DOMESTIC HOT WATER PIPING WITH INSULATION AS REQUIRED BY 2018 SEC TABLE C403.10.3.
4. INSULATE HEAT TRACED HOT WATER PIPING IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

DOMESTIC WATER PIPE SCHEDULE

TAG	CATEGORY	SERVICE DESCRIPTION	OPERATING PRESSURE	PIPE MATERIAL	JOINTS AND FITTINGS MATERIAL
CW	COLD WATER PIPE	BELOW GRADE WATER SERVICE	UP TO 100 PSI	TYPE K COPPER	CAST FITTINGS, SOLDERED
CW	COLD WATER PIPE	DOMESTIC WATER SERVICE	UP TO 100 PSI	TYPE L COPPER	CAST FITTINGS, SOLDERED
HW	HOT WATER PIPE	DOMESTIC WATER SERVICE	UP TO 100 PSI	TYPE L COPPER	CAST FITTINGS, SOLDERED
V	PLUMBING VENT	SANITARY WASTE AND VENT	-	CAST IRON	DWV
W	PLUMBING WASTE	SANITARY WASTE AND VENT	-	CAST IRON	DWV



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 1001 SW Klickitat Way, Suite 204
 Seattle WA 98134 P: 206.920.6348



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 TACOMA, WA 98401-1837

FAB CENTER 1ST FLOOR TOILET RENOVATION MECHANICAL SCHEDULES
 TOWNSHIP: 20N RANGE: 02 SECTION: 3E
 DAT-HRZ-NAD83(2011) WGS84
 M. ID: 101648.01
 PHASE: BID SET
 PARCEL: 0320024113
 DRAWING SCALE: NTS

6.711
MO.2
 10 OF 23
 CONT/CONS:PORT-PA--000000298
 M. ID: 101648.01
 PHASE: BID SET

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LIGHTING COMPLIANCE SUMMARY

2021 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1 Administered by: ©2024 NEEA, All rights reserved

Project & Applicant Information	Project Title	PoT FAB Restroom Remodel - 2021 WSEC	For Building Department Use	Date: Nov 01, 2024
	Project Address	360 Port of Tacoma Rd. Tacoma, WA 98424		
	Applicant Name	Tim Nichols		
	Applicant Phone	425-402-9400		
	Applicant Email	tim@caseng.com		

General Occupancy	All Commercial	General Building Use Type	Office, Professional Services	Building Cond. Floor Area	7,200
General Project Types	Alteration	New Building or Addition Lighting Scope	Alteration Lighting Scope	Project Cond. Floor Area	412
Lighting Project Description	Restroom refresh				

Lighting Compliance Scope and Method	Project Type	Interior / Exterior (interior includes both interior & parking)	Luminaire Replacement Scope	Compliance Method	LPA Calculation Adjustment	Compliance Verification
Additional Energy Efficiency (AEC) Measures Included	Alteration	Interior Lighting	less than 20% replaced		No Calculation Adjustments allowed	COMPLIES

Project Title	PoT FAB Restroom Remodel - 2021 WSEC	Date	Nov 01, 2024
Lighting Power Calculation	ALTERATION - INTERIOR LIGHTING (less than 20% replaced)	Compliance Verification	COMPLIES
Interior Lighting Power Allowance			
Space Type	Existing Lighting Wattage Prior to Alteration	Total Watts Allowed	Total Proposed Watts (LPD = Display LPD)
Existing Lighting	144	144	144

Proposed Lighting Power Density						
Fixture Type	Fixture ID	Quantity of Fixtures (#F)	Watts or Wattage 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	Troffer	(E)(EX)	6	24		144
Proposed Total LPD						144

Project Title	PoT FAB Restroom Remodel - 2021 WSEC	Date	Nov 01, 2024
Proposed Fixtures Details			
ALTERATION - INTERIOR LIGHTING (less than 20% replaced)			
Individual Fixtures	Fixture Type/Application	Fixture ID	Location in Documents
	Troffer	(E)(EX)	E3.1
			Lamp Type
			LED
			New or Existing-to-Remain
			Existing-to-Remain

E0.2

14 OF 23

CONT/CONS: PORT-PA-00000288

M. ID: 101648.01

PHASE: BID SET

FAB CENTER 1ST FLOOR TOILET RENOVATION

LIGHTING ENERGY CODE FORM

TOWNSHIP: 20N RANGE: 02 SECTION: 3E

DAT-HRZ: 14088/2011 WSEF VERT: MLLW 1983-2001

PARCEL: 0320024113 DRAWING SCALE: AS NOTED

APPROVED: *[Signature]*

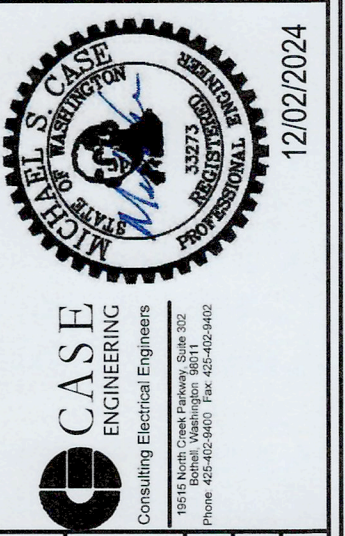
DIRECTOR: ENG. DATE: **Mar 17, 2025**

PRINTED BY: Tim

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CHECKED BY: DATE

PROJ. ENGR DATE



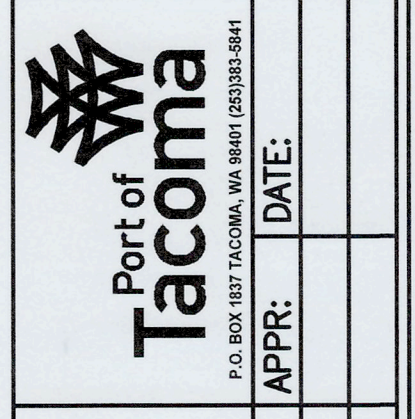
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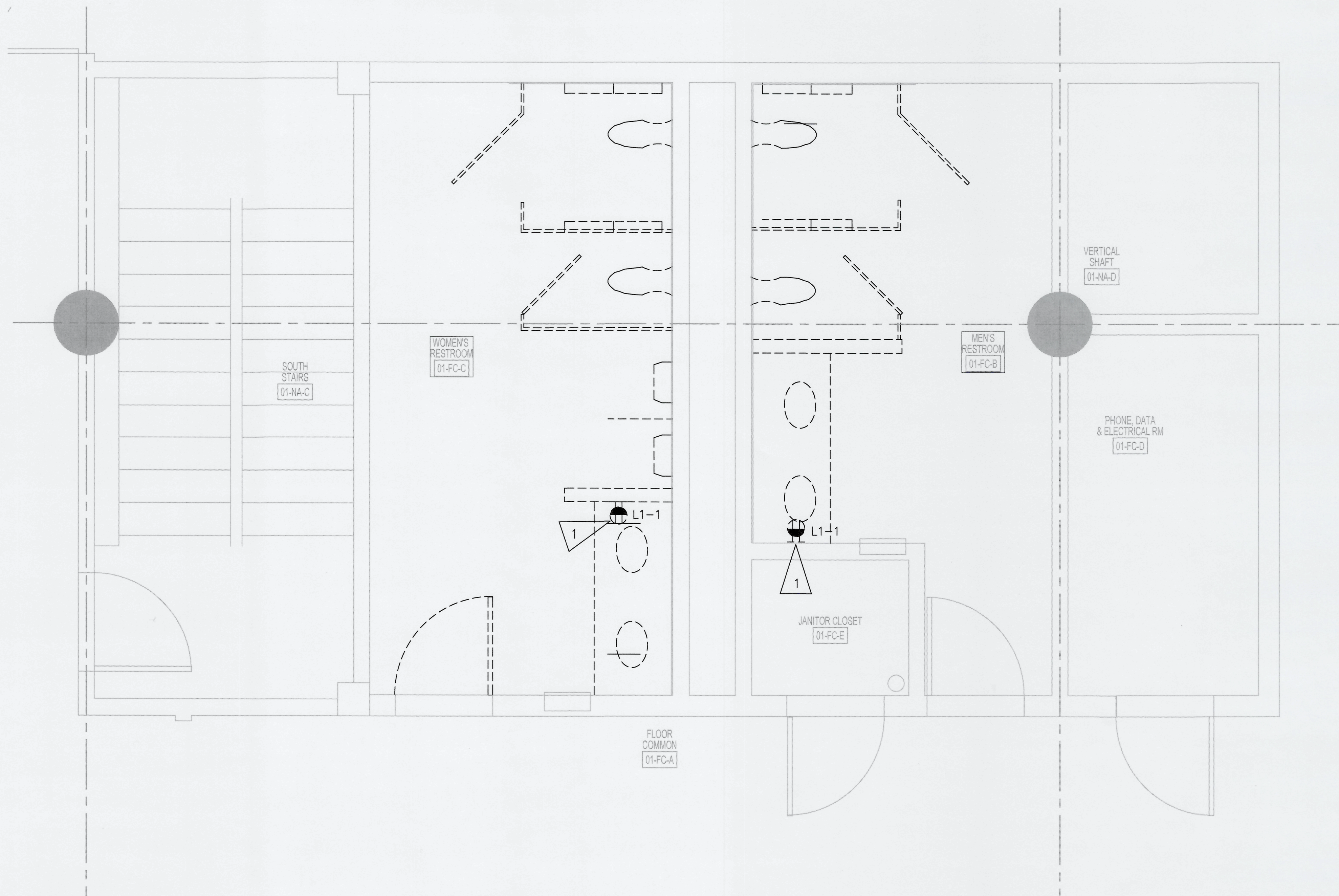
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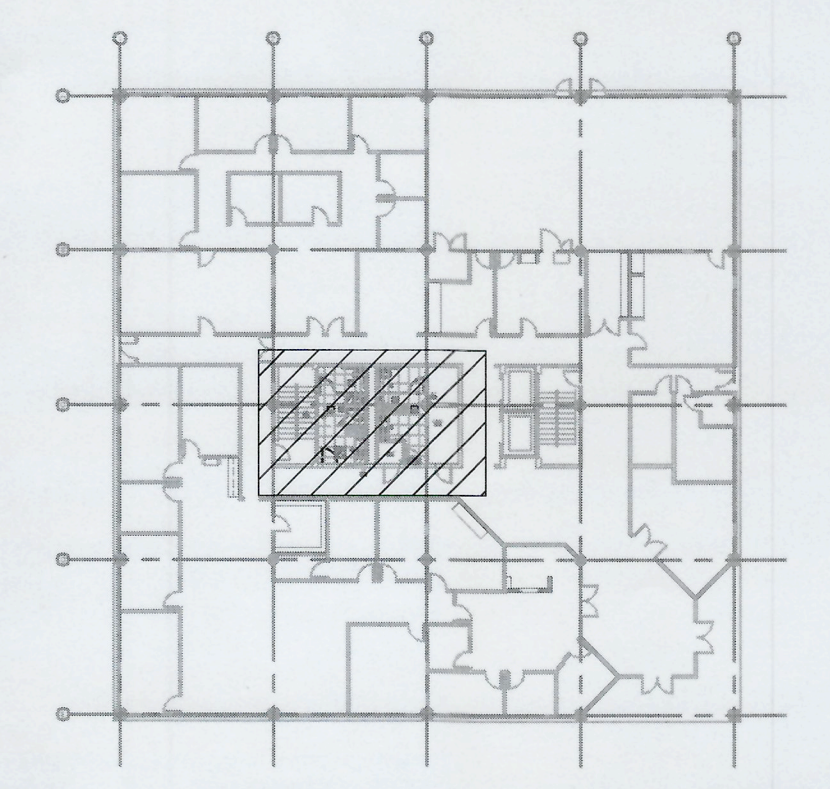
ENLARGED DEMOLITION RESTROOMS POWER AND DATA FLOOR PLAN
 SCALE: 1/2" = 1'-0"

GENERAL NOTES

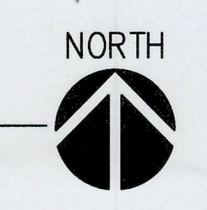
1. REFER TO THE MECHANICAL EQUIPMENT CONNECTION SCHEDULE, THIS SHEET, FOR ADDITIONAL INFORMATION.
2. PROVIDE ALL CONDUIT, BOXES AND WIRE AS REQUIRED BY WAC, NEC, AND SPECIFICATIONS SECTIONS 26 0510, 26 0511, 26 0519, 26 0532 AND 26 0533 FOR A FULLY FUNCTIONING SYSTEM.
3. WALL MOUNTED DEVICES SHALL NOT BE MOUNTED BACK TO BACK UNLESS PHYSICAL SPACE NECESSITATES IT. IF THESE DEVICES MUST BE MOUNTED BACK TO BACK, PROVIDE SOUND INSULATION AT BOXES.
4. FOR BRANCH CIRCUITS THAT EXCEED 75 FEET IN LENGTH, INCREASE WIRE BY ONE WIRE SIZE.
5. HOMERUNS SHALL NOT BE COMBINED.
6. PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.

FLAG NOTES

- 1 PROVIDE LABOR AND MATERIALS AS REQUIRED TO INTERCEPT AND MAINTAIN EXISTING BRANCH CIRCUIT FOR USE AT NEW LOCATION. SEE FLAG NOTE 1, SHEET E2.1, FOR ADDITIONAL INFORMATION.



KEY PLAN
 NOT TO SCALE



6711
ED2.1
 15 OF 23

CONT/CONS: PORT-PA-00000288
 M. ID: 101648.01
 PHASE: BID SET

FAB CENTER 1ST FLOOR TOILET RENOVATION
 DEMOLITION POWER PLAN

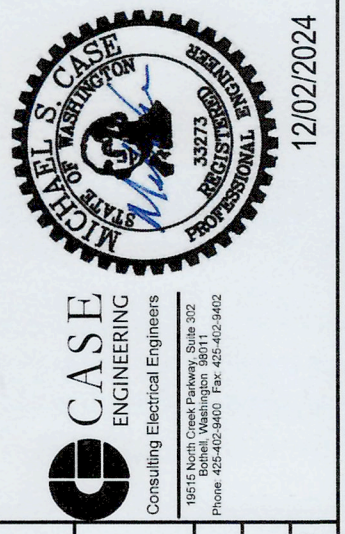
TOWNSHIP: 20N RANGE: 02 SECTION: 3E
 DAT-HRZ: w083/2011 wsf VERT: MLLW 1983-2001
 PARCEL: 0320024113 DRAWING SCALE: AS NOTED

APPROVED:

John Frost
 DIRECTOR ENGR. DATE: Mar 17, 2025
 PRINTED BY: Tim Mar 17, 2025
 PORT ADDRESS: ONE SITCUM PLAZA
 TACOMA, WA 98401-1837

CHECKED BY DATE

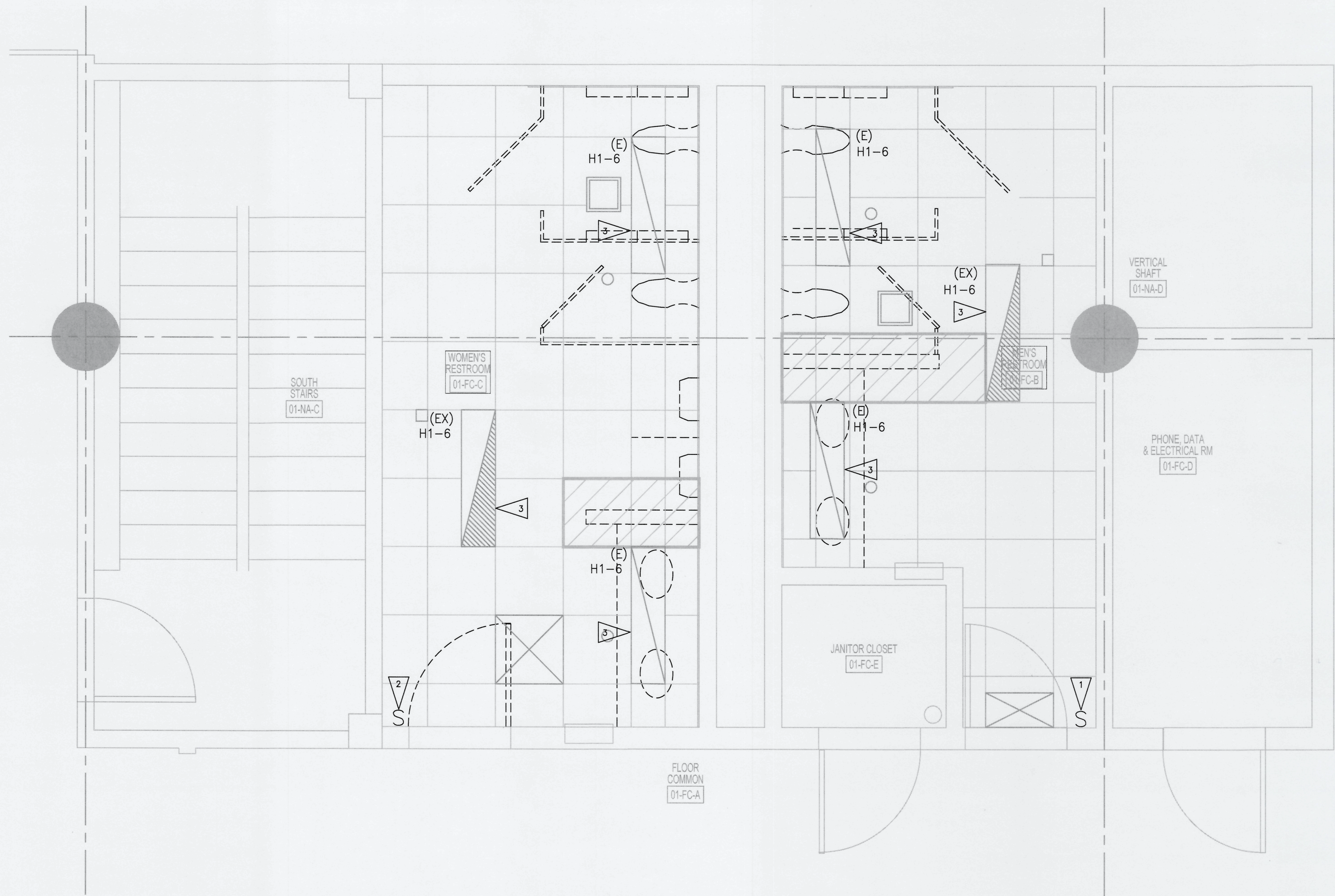
PROJ. ENGR DATE



LOAI ARCHITECTURE + PLANNING
 1001 SW Klickitat Way, Suite 204
 Seattle WA 98134 P: 206.920.6348
 MARK: REVISION: BY: DATE:

Port of Tacoma
 P.O. BOX 1837 TACOMA, WA 98401-1837

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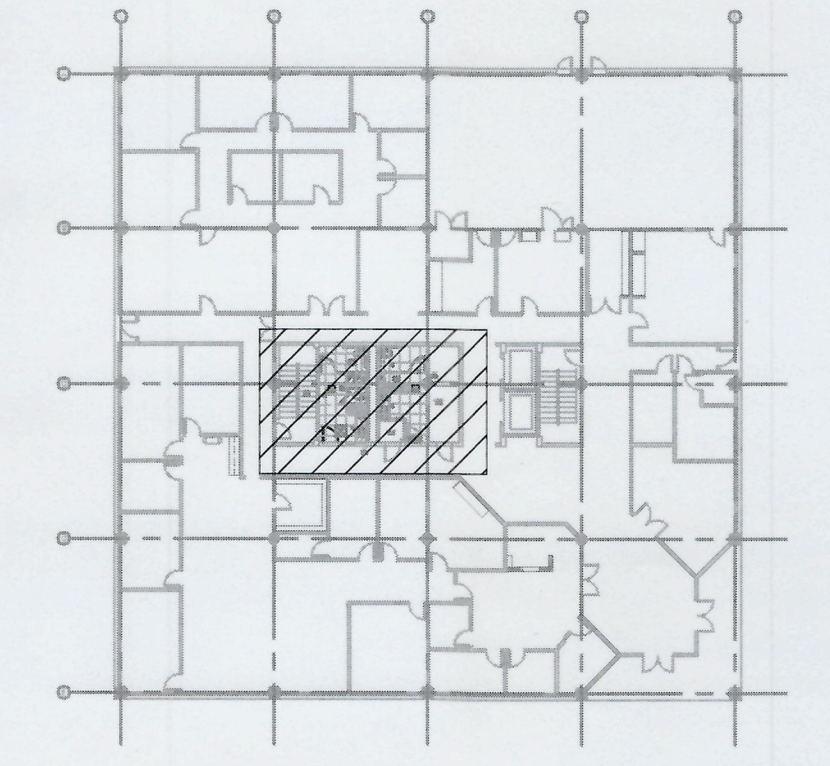
ENLARGED DEMOLITION RESTROOMS LIGHTING FLOOR PLAN
 SCALE: 1/2" = 1'-0"

GENERAL NOTES

- REFER TO LIGHTING FIXTURE SCHEDULE, THIS SHEET, FOR ADDITIONAL INFORMATION.
- PROVIDE ALL CONDUIT, BOXES AND WIRE AS REQUIRED BY WAC, NEC, AND SPECIFICATIONS SECTIONS 26 0510, 26 0511, 26 0519, 26 0532 AND 26 0533 FOR A FULLY FUNCTIONING SYSTEM.
- WALL MOUNTED DEVICES SHALL NOT BE MOUNTED BACK TO BACK UNLESS PHYSICAL SPACE NECESSITATES IT. IF THESE DEVICES MUST BE MOUNTED BACK TO BACK, PROVIDE SOUND INSULATION AT BOXES.
- FOR BRANCH CIRCUITS THAT EXCEED 75 FEET IN LENGTH, INCREASE WIRE BY ONE WIRE SIZE.
- HOMERUNS SHALL NOT BE COMBINED.
- PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
- ALL 2X2 FIXTURES RECESSED IN COVE. SEE ARCHITECTURAL DETAIL #5, SHEET A3.0, FOR ADDITIONAL INFORMATION.

FLAG NOTES

- PROVIDE LABOR AND MATERIALS AS REQUIRED TO DEMOLISH EXISTING LIGHT SWITCH. MAINTAIN EXISTING LIGHTING CIRCUIT AND CONTROLS FOR CONNECTION TO NEW LIGHT SWITCH IN EXISTING LOCATION. SEE FLAG NOTE 1, SHEET E3.1, FOR ADDITIONAL INFORMATION.
- PROVIDE LABOR AND MATERIALS AS REQUIRED TO DEMOLISH EXISTING LIGHT SWITCH. MAINTAIN EXISTING LIGHTING CIRCUIT AND CONTROLS IN ACCESSIBLE CEILING SPACE FOR EXTENSION TO NEW LIGHT SWITCH. SEE FLAG NOTE 2, SHEET E3.1, FOR ADDITIONAL INFORMATION.
- PROVIDE LABOR AND MATERIALS AS REQUIRED TO CAREFULLY MAINTAIN EXISTING FIXTURES. PROVIDE CLEAR PLASTIC COVERS OVER FIXTURES FOR CONSTRUCTION DURATION TO PROTECT FROM DUST. SEE FLAG NOTE 3, SHEET E3.1, FOR ADDITIONAL INFORMATION.

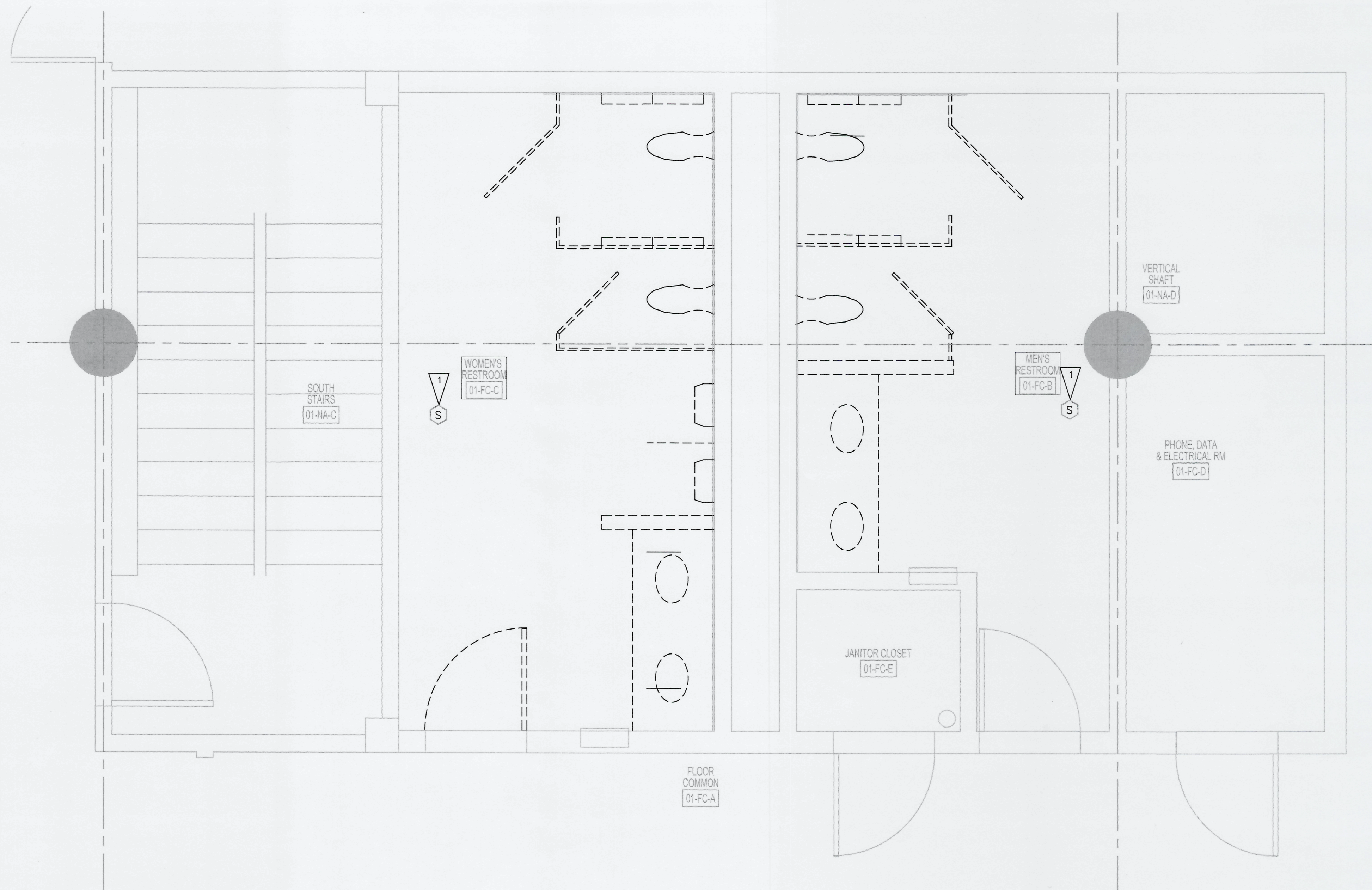


KEY PLAN
 NOT TO SCALE



6711 ED3.1 16 OF 23 CONT/CONS: PORT-PA-00000298 M. ID: 101648.01 PHASE: BID SET	FAB CENTER 1ST FLOOR TOILET RENOVATION DEMOLITION LIGHTING PLAN				CHECKED BY: [] DATE: []
	APPROVED: <i>[Signature]</i> DIRECTOR: [] ENGR. DATE: [] PRINTED BY: Tim Mar 17, 2025 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401 - 1837				12/02/2024
TOWNSHIP: 20N RANGE: 02 SECTION: 3E		DAT-HRZ: 03/20024113 VERT: 1983-2001 PARCEL: 0320024113 DRAWING SCALE: AS NOTED		CASE ENGINEERING CONSULTING ELECTRICAL ENGINEERS 1001 SW Klickitat Way, Suite 204 Seattle WA 98134 P: 206.920.6348	
Port of Tacoma P.O. BOX 1837 TACOMA, WA 98401-0183		IOAI ARCHITECTURE + PLANNING 1001 SW Klickitat Way, Suite 204 Seattle WA 98134 P: 206.920.6348		APPR: [] DATE: []	BY: [] REVISION: []

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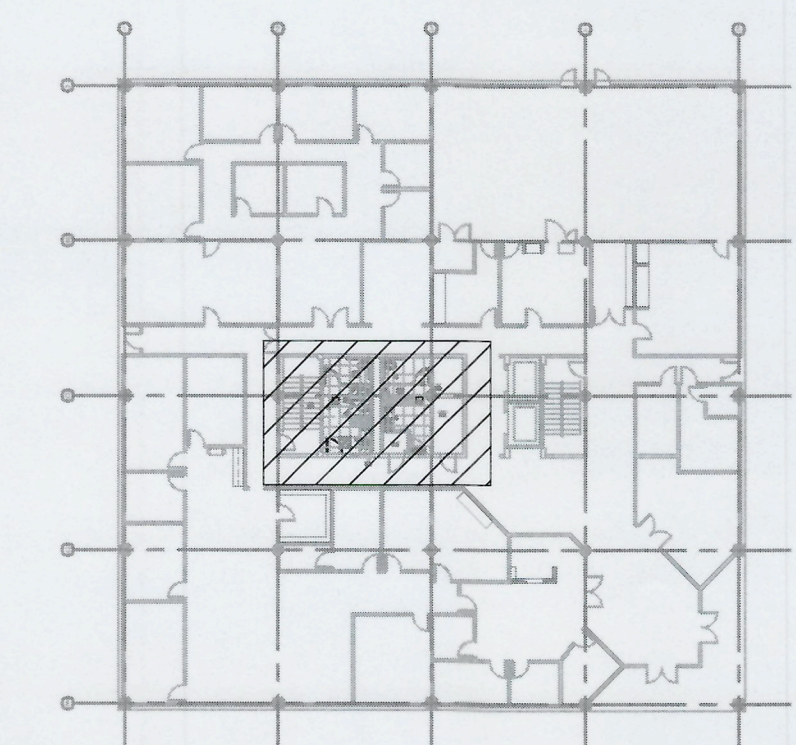


GENERAL NOTES

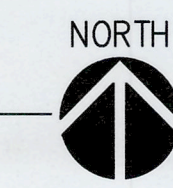
1. FIRE ALARM SYSTEM IS BIDDER DESIGNED. EXTEND EXISTING SYSTEM TO MODIFIED AREAS. COMPLY WITH ALL CODES AND REQUIREMENTS OF THE CITY OF SEATTLE. PROVIDE A COMPLETE AND APPROVED SYSTEM. PAY ALL COSTS ASSOCIATED WITH PRODUCTION OF PLAN REVIEW DOCUMENTS, REVIEW FEES AND PERMIT FEES.
2. SUBMIT COMPLETED DRAWINGS AND CALCULATIONS TO AUTHORITY HAVING JURISDICTION FOR APPROVAL. COMPLY WITH AND PROVIDE ALL REQUIREMENTS.
3. SUBMIT APPROVED DRAWINGS AND CALCULATIONS TO OWNER FOR REVIEW PRIOR TO PURCHASE OF EQUIPMENT OR ROUGH IN.
4. COORDINATE ALL DEVICE LOCATIONS WITH ARCHITECTURAL INTERIOR ELEVATIONS AND CEILING PLANS PRIOR TO ROUGH-IN.
5. SHOULD ANY DEVICE LOCATION FALL WITHIN A MIRROR OR OTHER ARCHITECTURAL FEATURE, COORDINATE LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.
6. FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID.
7. SEE SPECIFICATIONS SECTION 283111 FOR ADDITIONAL INFORMATION.
8. FIRE ALARM CONTROL PANEL IS HONEYWELL AND SUBCONTRACTOR MUST BE HONEYWELL APPROVED.
9. DEVICES SHOWN ARE NOT TO BE CONSIDERED AS ONLY DEVICES NEEDED TO COMPLY WITH CODE AND AHJ'S REQUIREMENTS

FLAG NOTES

- 1 PROVIDE LABOR AND MATERIALS AS REQUIRED TO MAINTAIN EXISTING FIRE ALARM DEVICE. SEE FLAG NOTE 1, SHEET E7.1, FOR ADDITIONAL INFORMATION.



KEY PLAN
NOT TO SCALE

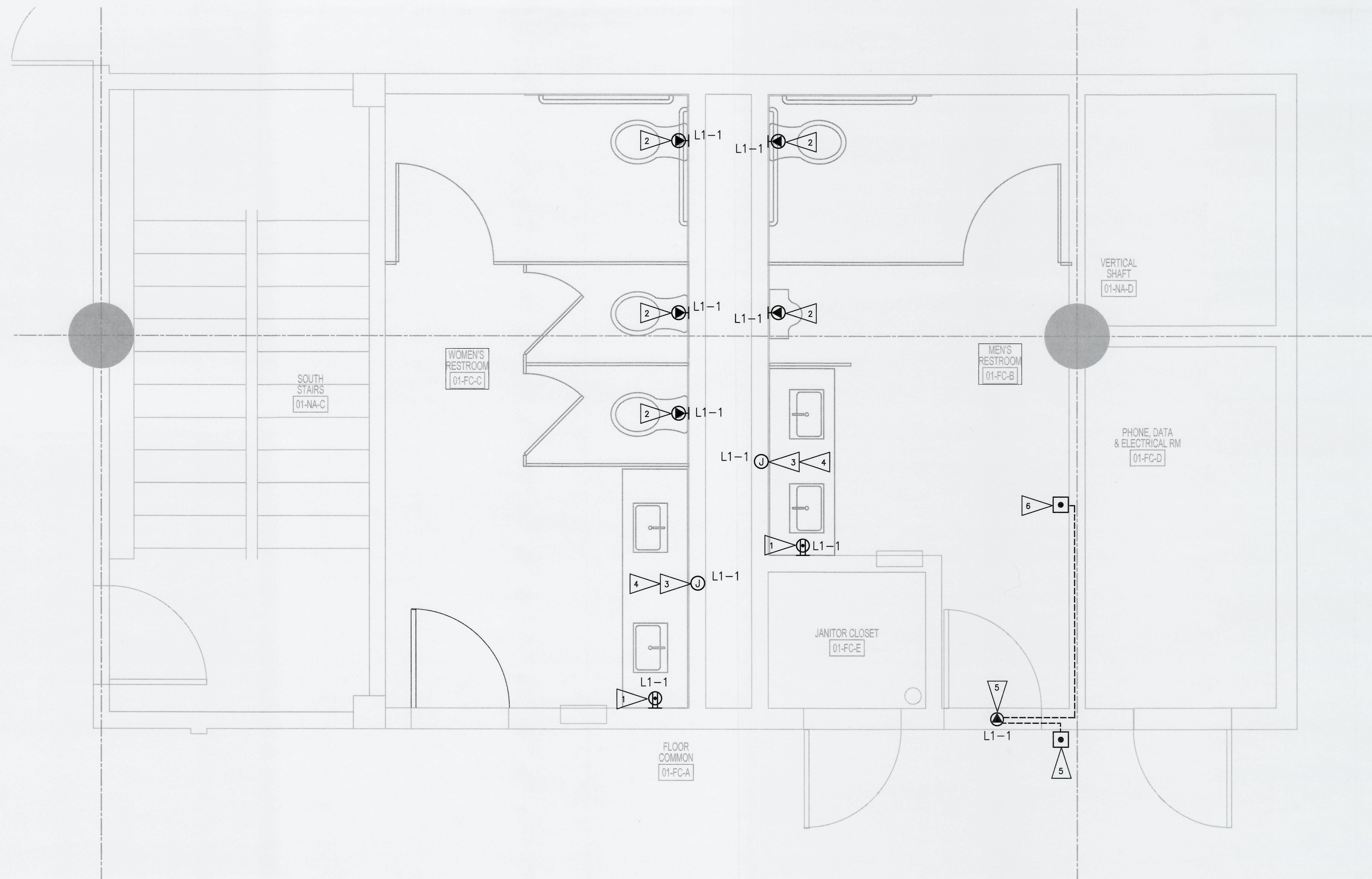


ENLARGED DEMOLITION RESTROOMS FIRE ALARM FLOOR PLAN

SCALE: 1/2" = 1'-0"

6711 ED7.1 17 OF 23	FAB CENTER 1ST FLOOR TOILET RENOVATION DEMOLITION FIRE ALARM PLAN		TOWNSHIP: 20N RANGE: 02 SECTION: 3E
	CONT/CONS: PORT-PA-00000298 M. ID: 101648.01 PHASE: BID SET	DATE: 03/20/2024 PARCEL: 0320024113 DRAWING SCALE: AS NOTED	TOWN: 20N RANGE: 02 SECTION: 3E DATE: 03/20/2024 VERT: MLLW 1983-2001
APPROVED: <i>[Signature]</i> DIRECTOR: <i>[Signature]</i> PRINTED BY: Tim Mar 17, 2025 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837			
CHECKED BY: <i>[Signature]</i> DATE:		PROJ. ENGR: <i>[Signature]</i> DATE:	REVISION:
IAI ARCHITECTURE + PLANNING 1001 SW Klickitat Way, Suite 204 Seattle WA 98134 P: 206.920.6348		BY:	DATE:
Port of Tacoma P.O. BOX 887 TACOMA, WA 98401-0887		APPR:	DATE:

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GENERAL NOTES

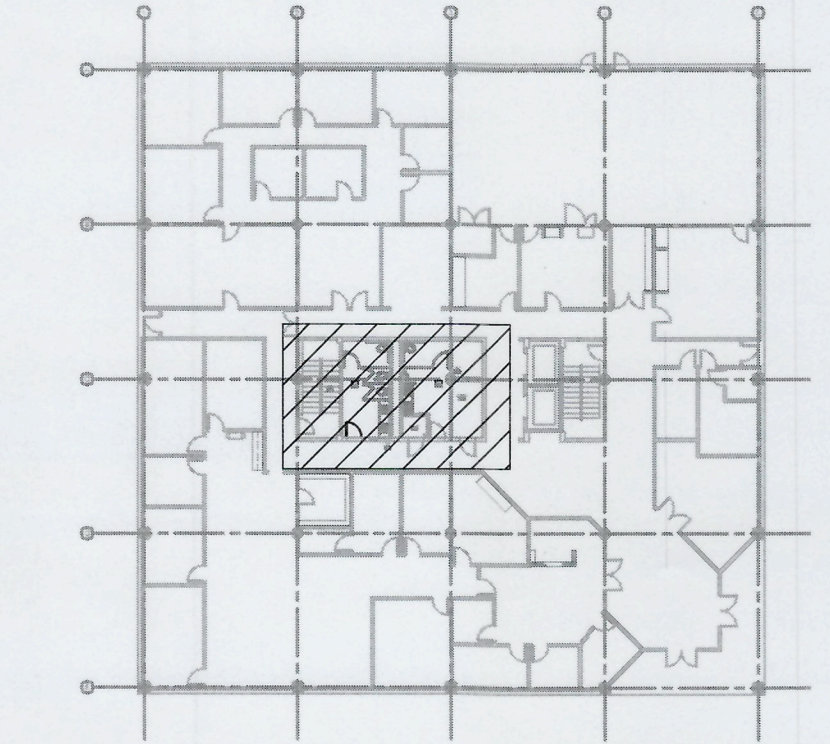
- REFER TO THE MECHANICAL EQUIPMENT CONNECTION SCHEDULE, THIS SHEET, FOR ADDITIONAL INFORMATION.
- PROVIDE ALL CONDUIT, BOXES AND WIRE AS REQUIRED BY WAC, NEC, AND SPECIFICATIONS SECTIONS 26 0510, 26 0511, 26 0519, 26 0532 AND 26 0533 FOR A FULLY FUNCTIONING SYSTEM.
- WALL MOUNTED DEVICES SHALL NOT BE MOUNTED BACK TO BACK UNLESS PHYSICAL SPACE NECESSITATES IT. IF THESE DEVICES MUST BE MOUNTED BACK TO BACK, PROVIDE SOUND INSULATION AT BOXES.
- FOR BRANCH CIRCUITS THAT EXCEED 75 FEET IN LENGTH, INCREASE WIRE BY ONE WIRE SIZE.
- HOMERUNS SHALL NOT BE COMBINED.
- PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.

FLAG NOTES

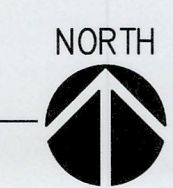
- PROVIDE LABOR AND MATERIALS AS REQUIRED TO INTERCEPT EXISTING BRANCH CIRCUIT TO NEW LOCATION SHOWN. SEE FLAG NOTE 1, SHEET ED2.1, FOR ADDITIONAL INFORMATION.
- PROVIDE CONNECTION TO POWERED TOILET FLUSH VALVE. COORDINATE EXACT POWER CONNECTION WITH TOILET SUPPLIER. 120V/10W EACH TOILET.
- PROVIDE CONNECTION FOR (2) POWERED FAUCET. MOUNT JUNCTION BOX INSIDE WALL THROUGH ACCESS PANEL. CONNECT 12V TRANSFORMER CONCEALED IN WALL, AND CONNECT TO FAUCETS. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. VERIFY LAYOUT WITH ARCHITECT/ENGINEER PRIOR TO COVER. 120V/6W EACH SINK.
- PROVIDE RECEPTACLE FOR (2) POWERED SOAP DISPENSER. MOUNT INSIDE JUNCTION BOX INSIDE WALL THROUGH ACCESS PANEL FOR POWERED FAUCETS. CONNECT 6V TRANSFORMER CONCEALED IN WALL, AND CONNECT TO SOAP DISPENSERS. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. VERIFY LAYOUT WITH ARCHITECT/ENGINEER PRIOR TO COVER. 120V/6W EACH SINK.
- ADA AUTO DOOR OPENER. 120V.
- ADA AUTO DOOR REQUEST TO EXIT DEVICE. PROVIDE 1/2" PATHWAY BETWEEN EXIT DEVICES AND ADA AUTO DOOR OPENER AS REQUIRED. COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

ENLARGED RESTROOMS POWER AND DATA FLOOR PLAN

SCALE: 1/2" = 1'-0"

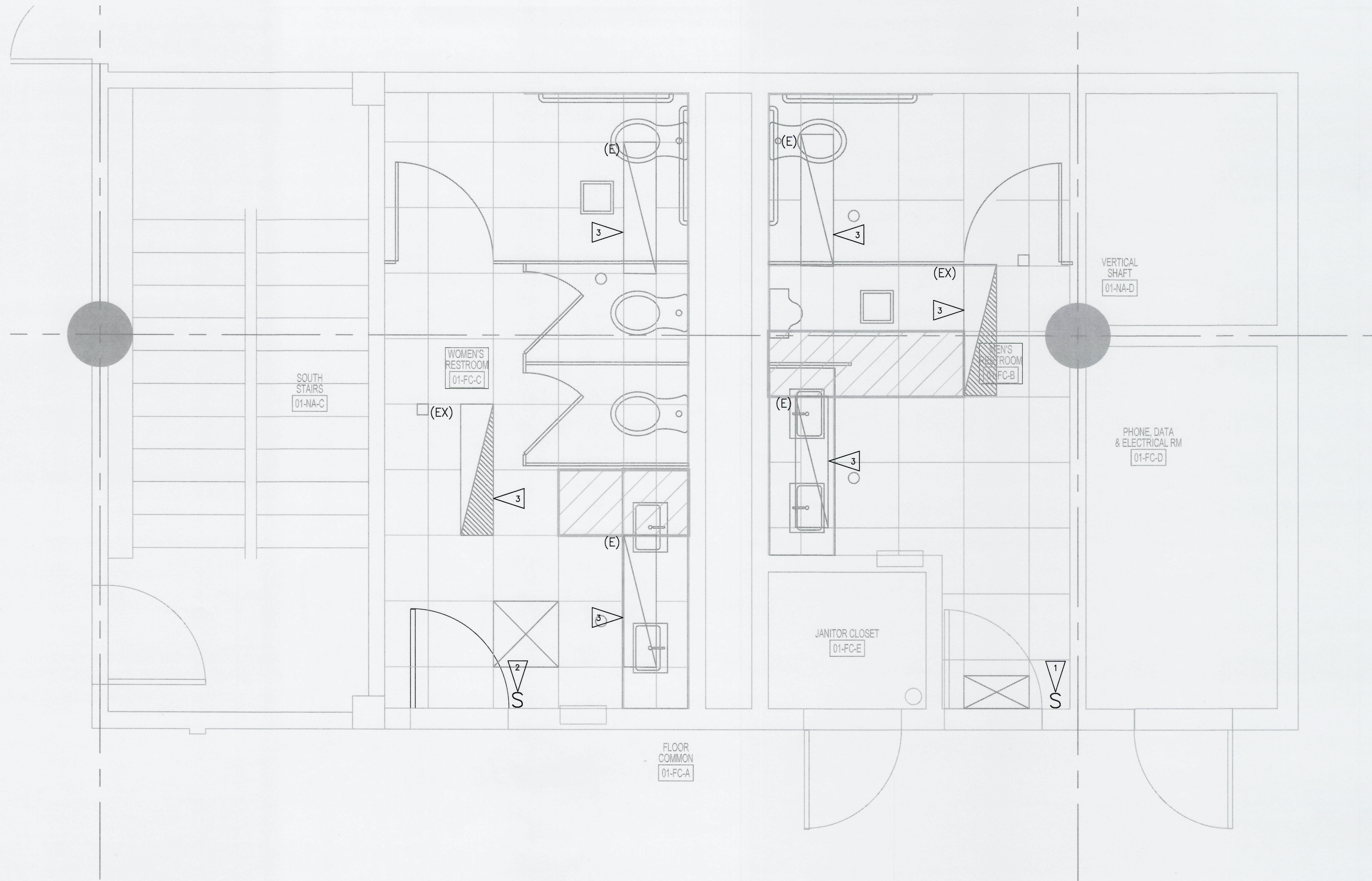


KEY PLAN
NOT TO SCALE



6711 E2.1 18 OF 23 CONT/CONS: PORT-PA-00000298 M. ID: 101648.01 PHASE: BID SET	FAB CENTER 1ST FLOOR TOILET RENOVATION POWER PLAN		TOWNSHIP: 20N DAT-HRZ: MAPS/2011 WSEF PARCEL: 0320024113	RANGE: 02 VERT: MLLW SECTION: 3E 1983-2001	DRAWING SCALE: AS NOTED
	APPROVED: <i>[Signature]</i> DIRECTOR ENG. DATE: Tim Mgr 17, 2025 PRINTED BY: Tim Mgr 17, 2025 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	CHECKED BY: DATE: _____ PROJ. ENGR: DATE: _____ DATE: _____	ARCHITECTURE + PLANNING LOAI 1001 SW Klickitat Way, Suite 204 Seattle WA 98134 P: 206.920.6348 MARK: REVISION: BY: DATE:		

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GENERAL NOTES

- REFER TO LIGHTING FIXTURE SCHEDULE, THIS SHEET, FOR ADDITIONAL INFORMATION.
- PROVIDE ALL CONDUIT, BOXES AND WIRE AS REQUIRED BY WAC, NEC, AND SPECIFICATIONS SECTIONS 26 0510, 26 0511, 26 0519, 26 0532 AND 26 0533 FOR A FULLY FUNCTIONING SYSTEM.
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- FOR BRANCH CIRCUITS THAT EXCEED 75 FEET IN LENGTH, INCREASE WIRE BY ONE WIRE SIZE.
- HOMERUNS SHALL NOT BE COMBINED.
- PROVIDE DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
- ALL 2X2 FIXTURES RECESSED IN COVE. SEE ARCHITECTURAL DETAIL #5, SHEET A3.0, FOR ADDITIONAL INFORMATION.

FLAG NOTES

- PROVIDE LABOR AND MATERIALS AS REQUIRED TO CONNECT NEW LIGHT SWITCH TO EXISTING CIRCUIT AND CONTROLS. SEE FLAG NOTE 1, SHEET ED3.1, FOR ADDITIONAL INFORMATION.
- PROVIDE LABOR AND MATERIALS AS REQUIRED TO EXTEND EXISTING MAINTAINED LIGHTING CIRCUIT AND CONTROLS TO NEW LIGHT SWITCH AND LOCATION SHOWN. SEE FLAG NOTE 2, SHEET ED3.1, FOR ADDITIONAL INFORMATION.
- PROVIDE LABOR AND MATERIALS AS REQUIRED TO CLEAN EXISTING MAINTAINED FIXTURE FROM ALL CONSTRUCTION DUST AND DEBRIS. ELECTRICAL CONTRACTOR TO PROVIDE (3) NEW ROOM FIXTURES OF EQUAL CONSTRUCTION AND PERFORMANCE IF FIXTURES DAMAGED AND NON-REPAIRABLE DUE TO CONSTRUCTION DEBRIS AND/OR DAMAGE.

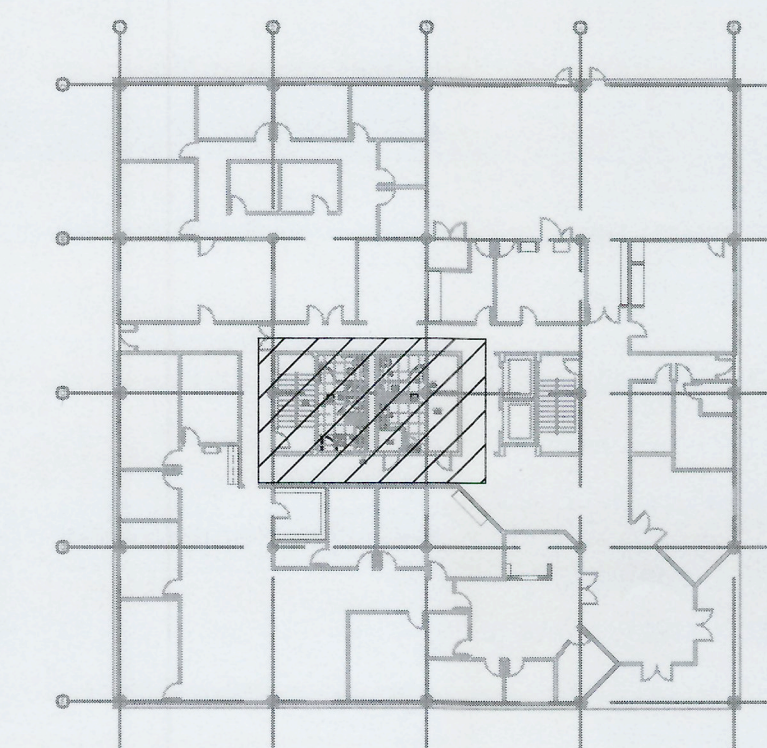
ENLARGED RESTROOMS LIGHTING FLOOR PLAN

SCALE: 1/2" = 1'-0"

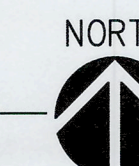
LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER		LAMP	INPUT WATTS	REMARKS
		NAME	CATALOG NO.			
(E)	EXISTING RECESSED 1'X4' TROFFER	EXISTING	-	LED	24	-
(EX)	EXISTING RECESSED 1'X4' TROFFER WITH BATTERY BACKUP	EXISTING	-	LED	24	-

- ALL FINISHES TO BE VERIFIED BY ARCHITECT PRIOR TO ORDER.
- ALL VOLTAGES TO BE VERIFIED BY CONTRACTOR PRIOR TO ORDER.



KEY PLAN
NOT TO SCALE



Port of Tacoma

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LOAI ARCHITECTURE + PLANNING

 1001 SW Klickitat Way, Suite 204

 Seattle WA 98134 P: 206.920.6348

 MARK: REVISION: BY: APPR: DATE:

CASE ENGINEERING

Professional Engineer License No. 12375

 12/02/2024

APPROVED:	<i>Tim Mar</i>	CHECKED BY:	DATE:
DIRECTOR:	Tim Mar	PROJ. ENGR:	DATE:
PRINTED BY:	Tim Mar	17, 2025	
PORT ADDRESS:	ONE SITCUM PLAZA	TACOMA, WA 98401-1837	

FAB CENTER 1ST FLOOR TOILET RENOVATION

 LIGHTING PLAN

TOWNSHIP:	20N	RANGE:	02	SECTION:	3E
DATE-HRZ:	03/20/2011	W/SF:	VERT:	MLLW	1983-2001
PARCEL:	0320024113	DRAWING SCALE:	AS NOTED		

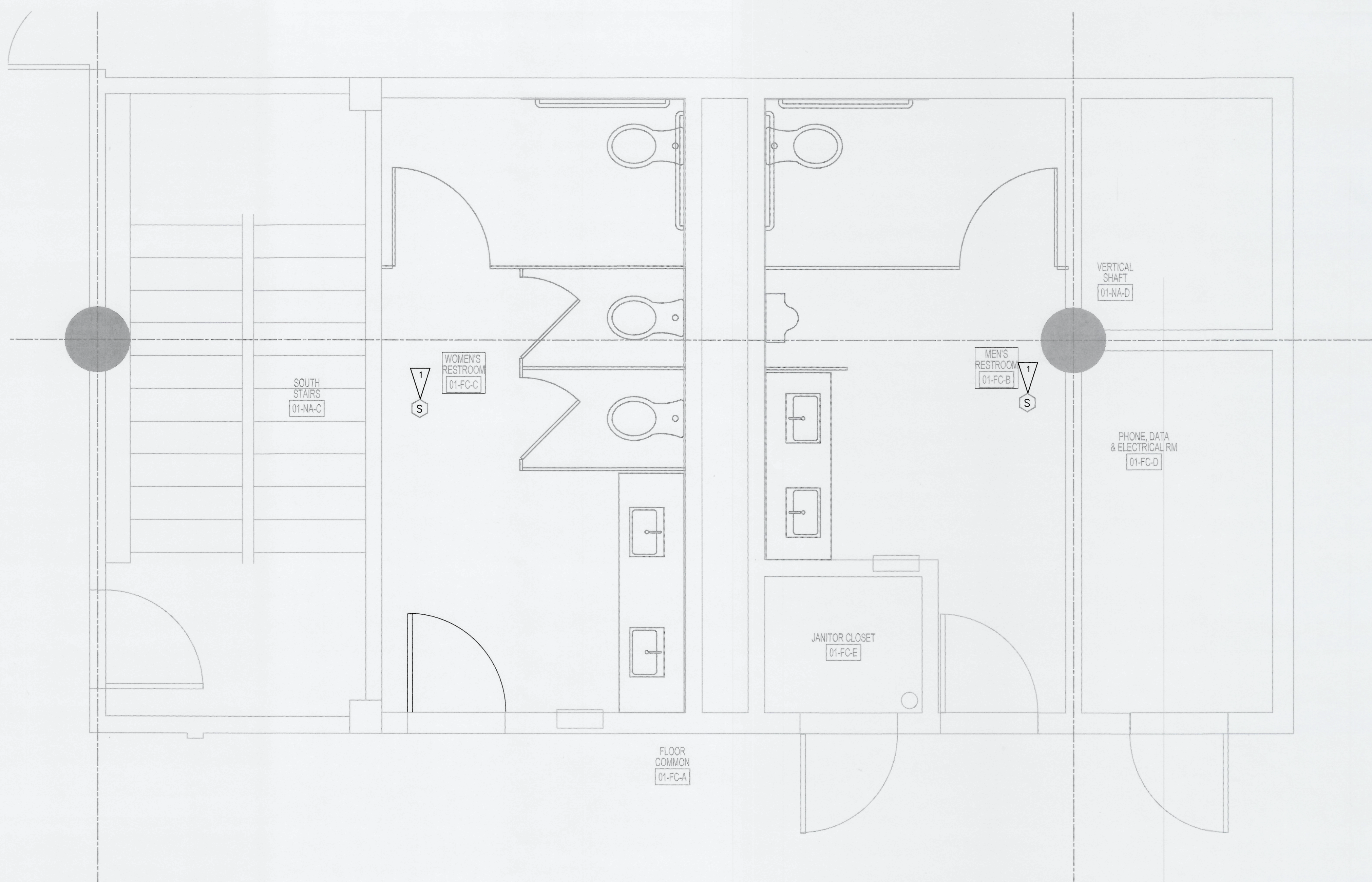
6711 OF 23

E3.1

 19

CONT/CONS:PORT-PA-00000288	
M. ID: 101648.01	
PHASE: BID SET	

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ENLARGED RESTROOMS FIRE ALARM FLOOR PLAN

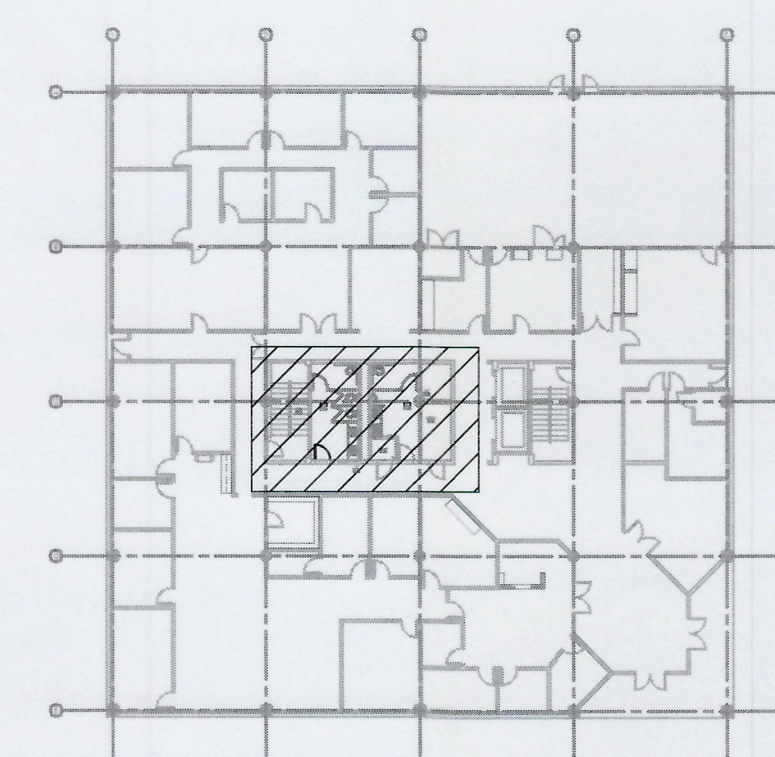
SCALE: 1/2" = 1'-0"

GENERAL NOTES

1. FIRE ALARM SYSTEM IS BIDDER DESIGNED. EXTEND EXISTING SYSTEM TO MODIFIED AREAS. COMPLY WITH ALL CODES AND REQUIREMENTS OF THE CITY OF SEATTLE. PROVIDE A COMPLETE AND APPROVED SYSTEM. PAY ALL COSTS ASSOCIATED WITH PRODUCTION OF PLAN REVIEW DOCUMENTS, REVIEW FEES AND PERMIT FEES.
2. SUBMIT COMPLETED DRAWINGS AND CALCULATIONS TO AUTHORITY HAVING JURISDICTION FOR APPROVAL. COMPLY WITH AND PROVIDE ALL REQUIREMENTS.
3. SUBMIT APPROVED DRAWINGS AND CALCULATIONS TO OWNER FOR REVIEW PRIOR TO PURCHASE OF EQUIPMENT OR ROUGH-IN.
4. COORDINATE ALL DEVICE LOCATIONS WITH ARCHITECTURAL INTERIOR ELEVATIONS AND CEILING PLANS PRIOR TO ROUGH-IN.
5. SHOULD ANY DEVICE LOCATION FALL WITHIN A MIRROR OR OTHER ARCHITECTURAL FEATURE, COORDINATE LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.
6. FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID.
7. SEE SPECIFICATIONS SECTION 283111 FOR ADDITIONAL INFORMATION.
8. FIRE ALARM CONTROL PANEL IS HONEYWELL AND SUBCONTRACTOR MUST BE HONEYWELL APPROVED.
9. DEVICES SHOWN ARE NOT TO BE CONSIDERED AS ONLY DEVICES NEEDED TO COMPLY WITH CODE AND AHJ'S REQUIREMENTS

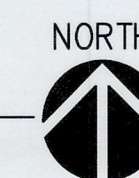
FLAG NOTES

- 1 PROVIDE LABOR AND MATERIALS AS REQUIRED TO MAINTAIN EXISTING FIRE ALARM DEVICE. SEE FLAG NOTE 1, SHEET ED7.1, FOR ADDITIONAL INFORMATION.



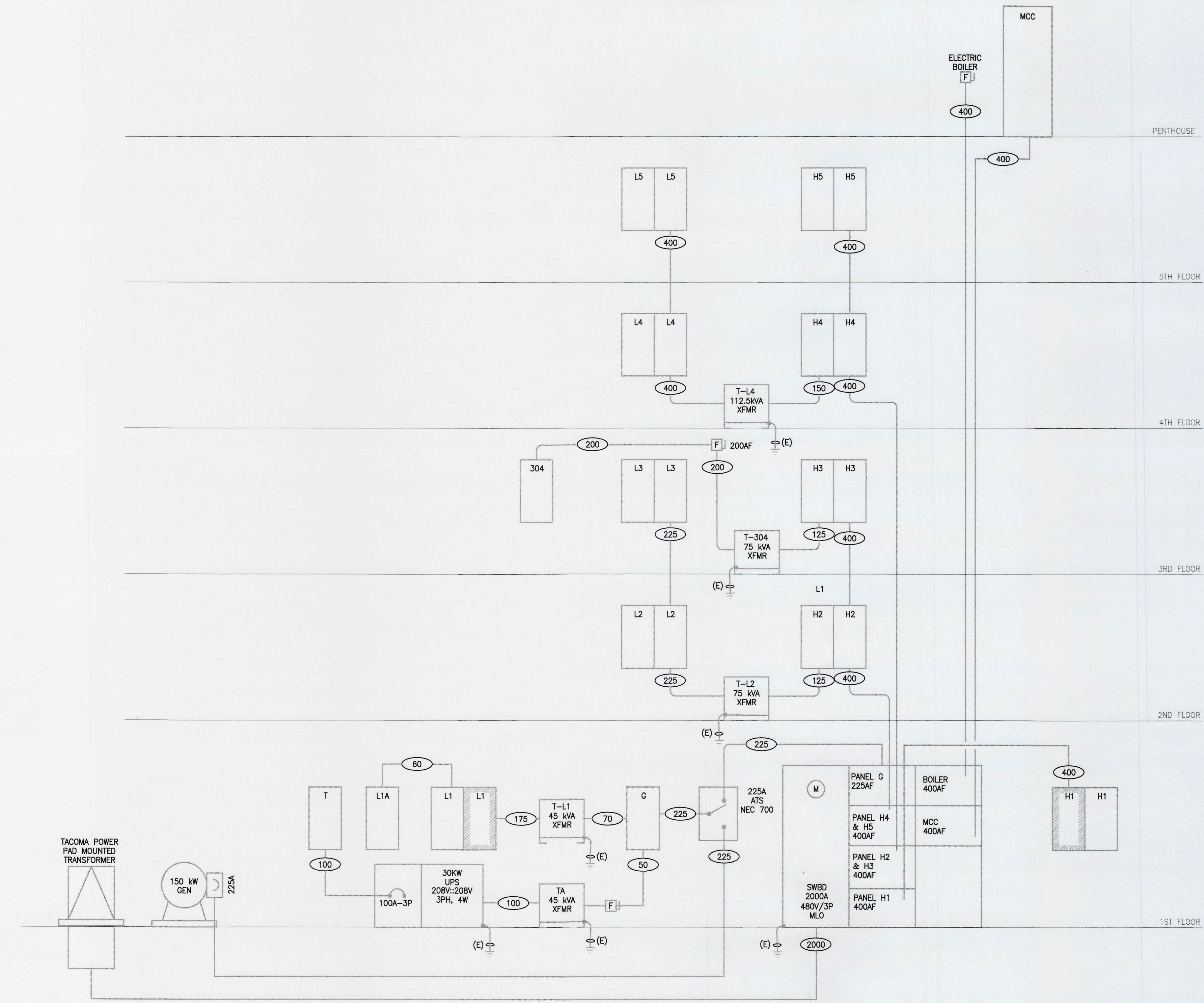
KEY PLAN

NOT TO SCALE



E7.1 20 OF 23 COUNTY/CONS: PORT-PA-000000298 M. ID: 101648.01 PHASE: BID SET	FAB CENTER 1ST FLOOR TOILET RENOVATION FIRE ALARM PLAN		TOWNSHIP: 20N RANGE: 02 SECTION: 3E
	DAT-HRZ: 04/08/2011 WWSF PARCEL: 0320024.113	PRINTED BY: Tim Mar 17, 2025 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	CHECKED BY: [Signature] DATE: 12/02/2024
APPROVED: [Signature] DIRECTOR: [Signature]		CASE ENGINEERING Consulting Electrical Engineers 1001 SW Klickitat Way, Suite 204 Seattle WA 98134 P: 206.920.6348 MARK: REVISION: [Blank] BY: [Blank]	LOAI ARCHITECTURE + PLANNING 1001 SW Klickitat Way, Suite 204 Seattle WA 98134 P: 206.920.6348 MARK: REVISION: [Blank] BY: [Blank]

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RISER DIAGRAM
NOT TO SCALE

6711
E9.1
21 OF 23

CONTRACT/CONS: PORT-PA-000000298
M. ID: 101648.01
PHASE: BID SET

FAB CENTER 1ST FLOOR TOILET RENOVATION
RISER DIAGRAM

TOWNSHIP: ZON RANGE: 02 SECTION: 3E
DATE-HRZ: 10/03/2011 WWSF VERT: MLLW 1983-2001
PARCEL: 0320024113 DRAWING SCALE: AS NOTED

APPROVED:

DIRECTOR: *Alvin J. ...*
PRINTED BY: Tim Mar 17, 2025
PORT ADDRESS: ONE SITCUM PLAZA
TACOMA, WA 98401-1837

CHECKED BY: DATE
PROJ. ENGR DATE
DATE

CASE ENGINEERING
CONSULTING ELECTRICAL ENGINEERS
1911 1st Avenue, Tacoma, WA 98401
Phone: 252-8888 Fax: 252-8888
12/02/2024



JOAI ARCHITECTURE + PLANNING
1001 SW Klickitat Way, Suite 204
Seattle WA 98134 P: 206.920.6348
MARK: REVISION: BY: DATE:

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(E) PANEL 'G' (BEFORE)													
PROJECT NAME											PROJECT #		
LOCATION													
NOTE	CKT NO.	CIRCUIT NAME	FED FROM		LOAD (KVA)							PANEL DESCRIPTION	
			Ø	AMP	R	H	M	L	K	O	TOTAL		
1	TRANSFORMER TO PANEL L1	A 70 3	11.1	1.0	1.1	0.6	2.5	4.3	20.6				PANEL AMPS : 225
3	-	B -	13.1	1.0	1.0	1.7	2.5	2.0	21.3				FEEDEE AMPS : 225
5	-	C -	11.2	2.0	0.6		1.4	15.2					L - L VOLTS : 480
1	7 ELEVATOR	A 70 3			13.2				13.2				L - N VOLTS : 277
9	-	B -			13.2				13.2				PHASE : 3
11	-	C -			13.2				13.2				WIRE : 4
13	SPARE	A 20 1											
15	SPARE	B 20 1											
17	SPARE	C 20 1											
19	SPARE	A 20 1											
21	SPARE	B 20 1											
23	SPARE	C 20 1											
25	SPACE	A - 1											
27	SPACE	B - 1											
29	SPACE	C - 1											
31	SPACE	A - 1											
33	SPACE	B - 1											
35	SPACE	C - 1											
37	SPACE	A - 1											
39	SPACE	B - 1											
41	SPACE	C - 1											
LOAD SUMMARY (TOTAL ALL SECTIONS)													
1	2 UPS SECURITY SUITE	A 50 3	10.0						10.0				REC KVA : 65.4
4	-	B -	10.0						10.0				HEAT KVA : 2.0
6	-	C -	10.0						10.0				MOTOR KVA : 83.3
1	8 ELEVATOR	A 70 3			13.2				13.2				LIGHTING KVA : 2.9
10	-	B -			13.2				13.2				KITCHEN KVA : 5.0
12	-	C -			13.2				13.2				OTHER KVA : 7.7
14	SPARE	A 20 1											
16	SPARE	B 20 1											
18	SPARE	C 20 1											
20	SPARE	A 20 1											
22	SPARE	B 20 1											
24	SPARE	C 20 1											
26	SPARE	A 20 1											
28	SPARE	B 20 1											
30	SPARE	C 20 1											
32	SPACE	A - 1											
34	SPACE	B - 1											
36	SPACE	C - 1											
38	SPACE	A - 1											
40	SPACE	B - 1											
42	SPACE	C - 1											
DEMAND LOAD													
KVA : 149.2													
AMPS : 179.5													
NOTES/REMARKS :													
1. EXISTING LOAD													
2.													
3.													
DEMAND / DIVERSITY FACTORS													
LOAD DESCRIPTION DEMAND													
R RECEPTACLES - TO 10KVA 100% = 10.0													
H HEATING 100% = 2.0													
M MOTORS 100% = 43.7													
LM LARGEST MOTOR 125% = 49.5													
L LIGHTING 125% = 3.6													
K KITCHEN 100% = 5.0													
O OTHER 100% = 7.7													

(E) PANEL 'G' (AFTER)													
PROJECT NAME											PROJECT #		
LOCATION													
NOTE	CKT NO.	CIRCUIT NAME	FED FROM		LOAD (KVA)							PANEL DESCRIPTION	
			Ø	AMP	R	H	M	L	K	O	TOTAL		
1	TRANSFORMER TO PANEL L1	A 70 3	11.4	1.0	1.1	0.6	2.5	4.6	21.3				PANEL AMPS : 225
3	-	B -	13.1	1.0	1.0	1.7	2.5	2.0	21.3				FEEDEE AMPS : 225
5	-	C -	11.2	2.0	0.6		1.4	15.2					L - L VOLTS : 480
1	7 ELEVATOR	A 70 3			13.2				13.2				L - N VOLTS : 277
9	-	B -			13.2				13.2				PHASE : 3
11	-	C -			13.2				13.2				WIRE : 4
13	SPARE	A 20 1											
15	SPARE	B 20 1											
17	SPARE	C 20 1											
19	SPARE	A 20 1											
21	SPARE	B 20 1											
23	SPARE	C 20 1											
25	SPACE	A - 1											
27	SPACE	B - 1											
29	SPACE	C - 1											
31	SPACE	A - 1											
33	SPACE	B - 1											
35	SPACE	C - 1											
37	SPACE	A - 1											
39	SPACE	B - 1											
41	SPACE	C - 1											
LOAD SUMMARY (TOTAL ALL SECTIONS)													
1	2 UPS SECURITY SUITE	A 50 3	10.0						10.0				REC KVA : 65.7
4	-	B -	10.0						10.0				HEAT KVA : 2.0
6	-	C -	10.0						10.0				MOTOR KVA : 83.3
1	8 ELEVATOR	A 70 3			13.2				13.2				LIGHTING KVA : 2.9
10	-	B -			13.2				13.2				KITCHEN KVA : 5.0
12	-	C -			13.2				13.2				OTHER KVA : 8.0
14	SPARE	A 20 1											
16	SPARE	B 20 1											
18	SPARE	C 20 1											
20	SPARE	A 20 1											
22	SPARE	B 20 1											
24	SPARE	C 20 1											
26	SPARE	A 20 1											
28	SPARE	B 20 1											
30	SPARE	C 20 1											
32	SPACE	A - 1											
34	SPACE	B - 1											
36	SPACE	C - 1											
38	SPACE	A - 1											
40	SPACE	B - 1											
42	SPACE	C - 1											
DEMAND LOAD													
KVA : 167.0													
AMPS : 200.8													
NOTES/REMARKS :													
1. EXISTING LOAD													
2.													
3.													
DEMAND / DIVERSITY FACTORS													
LOAD DESCRIPTION DEMAND													
R RECEPTACLES - TO 10KVA 100% = 10.0													
H HEATING 100% = 2.0													
M MOTORS 100% = 43.7													
LM LARGEST MOTOR 125% = 49.5													
L LIGHTING 125% = 3.6													
K KITCHEN 100% = 5.0													
O OTHER 100% = 8.0													

(E) PANEL 'H1' (SECTION 2) (BEFORE)													
PROJECT NAME											PROJECT #		
LOCATION													
NOTE	CKT NO.	CIRCUIT NAME	FED FROM		LOAD (KVA)							PANEL DESCRIPTION	
			Ø	AMP	R	H	M	L	K	O	TOTAL		
1	43 LTS - TENANT	A 20 1			1.8				1.8				PANEL AMPS : 400
1	45 LTS - TENANT	B 20 1			1.8				1.8				FEEDEE AMPS : 400
1	47 LTS - TENANT	C 20 1			1.9				1.9				L - L VOLTS : 480
1	49 LTS - TENANT 110	A 20 1			1.9				1.9				L - N VOLTS : 277
1	51 LTS - TENANT 110	B 20 1			1.9				1.9				PHASE : 3
1	53 LTS - TENANT 108 & HALL	C 20 1			1.7				1.7				WIRE : 4
1	55 HP-118 @ ELEVATOR ROOM	A 20 1			2.5				2.5				
57	SPARE	B 20 1											
59	SPARE	C 20 1											
61	SPARE	A 20 1											
63	SPARE	B 20 1											
65	SPARE	C 20 1											
67	SPARE	A 30 2											
69	-	B -											
71	SPARE	C 20 1											
73	SPARE	A 20 1											
75	SPARE	B 20 1											
77	SPARE	C 20 1											
79	SPARE	A 20 1											
81	SPARE	B 20 1											
83	SPARE	C 20 1											
LOAD SUMMARY (TOTAL ALL SECTIONS)													
44	SPARE	A 70 3											REC KVA : 13.0
46	-	B -											HEAT KVA : 2.0
48	-	C -											MOTOR KVA : 83.3
50	SPARE	A 70 3											LIGHTING KVA : 37.5
52	-	B -											KITCHEN KVA : 5.0
54	-	C -											OTHER KVA : 7.7
56	SPARE	A 30 3											
58	-	B -											
60	-	C -											

(E) PANEL 'L1A' (BEFORE)														
PROJECT NAME											PROJECT #			
LOCATION											FED FROM			
NOTE	CKT NO.	CIRCUIT NAME	CB SIZE	LOAD (KVA)					TOTAL					PANEL DESCRIPTION
			Ø	A	R	H	M	L	K	O				
	1	SPARE	A 20 1										PANEL AMPS : 60	
	3	OUTDOOR UNIT #1	B 20 2	1.0								1.0	FEDDER AMPS : 60	
	5	-	C -	1.0								1.0	L - L VOLTS : 208	
	7	GEN BLOCK HEATER	A 20 2	1.0								1.0	L - N VOLTS : 120	
	9	-	B -	1.0								1.0	PHASE : 3	
	11	LTS & REC - GEN	C 20 1	0.2				0.0				0.2	WIRE : 4	
	13	GEN BATTERY CHARGER	A 20 1							1.5	1.5			
	15	SPACE	B -											
	17	SPACE	C -											
	19	SPACE	A -											
	21	SPACE	B -											
	23	SPACE	C -											
	25	SPACE	A -											
	27	SPACE	B -											
	29	SPACE	C -											
	31	SPACE	A -											
	33	SPACE	B -											
	35	SPACE	C -											
	37	SPACE	A -											
	39	SPACE	B -											
	41	SPACE	C -											
	1	2 AV ROOM RACK	A 20 1								1.0	1.0	REC KVA : 0.2	
	1	4 AV ROOM RACK	B 20 1								1.0	1.0	HEAT KVA : 2.0	
	6	SPARE	C 20 1										MOTOR KVA : 2.0	
	8	SPARE	A 20 1										LIGHTING KVA : 0.0	
	10	SPARE	B 20 1										KITCHEN KVA : 4.5	
	12	SPARE	C 20 1										OTHER KVA : 4.5	
	1	14 OOM RM LUMEN	A 15 1							0.5	0.5		PHASE A KVA : 4.0	
	1	16 OOM RM LUMEN	B 15 1							0.5	0.5		AMPS : 33.3	
	18	SPACE	C -										PHASE B KVA : 3.5	
	20	SPACE	A -										AMPS : 29.2	
	22	SPACE	B -										PHASE C KVA : 1.2	
	24	SPACE	C -										AMPS : 9.9	
	26	SPACE	A -											
	28	SPACE	B -											
	30	SPACE	C -											
	32	SPACE	A -											
	34	SPACE	B -											
	36	SPACE	C -											
	38	SPACE	A -											
	40	SPACE	B -											
	42	SPACE	C -											
NOTES/REMARKS:			DEMAND / DIVERSITY FACTORS											
1. EXISTING LOAD			LOAD	DESCRIPTION						DEMAND				
2.			R	RECEPTACLES - TO 10KVA						100%	=	0.2		
3.				REMAINING OVER 10KVA						50%	=	2.0		
			H	HEATING						100%	=	2.0		
			M	MOTORS						100%	=	2.5		
			LM	LARGEST MOTOR						125%	=	0.0		
			L	LIGHTING						125%	=	0.0		
			K	KITCHEN						100%	=	4.5		
			O	OTHER						100%	=	4.5		

(E) PANEL 'L1A' (AFTER)														
PROJECT NAME											PROJECT #			
LOCATION											FED FROM			
NOTE	CKT NO.	CIRCUIT NAME	CB SIZE	LOAD (KVA)					TOTAL					PANEL DESCRIPTION
			Ø	A	R	H	M	L	K	O				
	1	SPARE	A 20 1										PANEL AMPS : 60	
	3	OUTDOOR UNIT #1	B 20 2	1.0								1.0	FEDDER AMPS : 60	
	5	-	C -	1.0								1.0	L - L VOLTS : 208	
	7	GEN BLOCK HEATER	A 20 2	1.0								1.0	L - N VOLTS : 120	
	9	-	B -	1.0								1.0	PHASE : 3	
	11	LTS & REC - GEN	C 20 1	0.2				0.0				0.2	WIRE : 4	
	13	GEN BATTERY CHARGER	A 20 1							1.5	1.5			
	15	SPACE	B -											
	17	SPACE	C -											
	19	SPACE	A -											
	21	SPACE	B -											
	23	SPACE	C -											
	25	SPACE	A -											
	27	SPACE	B -											
	29	SPACE	C -											
	31	SPACE	A -											
	33	SPACE	B -											
	35	SPACE	C -											
	37	SPACE	A -											
	39	SPACE	B -											
	41	SPACE	C -											
	1	2 AV ROOM RACK	A 20 1								1.0	1.0	REC KVA : 0.2	
	1	4 AV ROOM RACK	B 20 1								1.0	1.0	HEAT KVA : 2.0	
	6	SPARE	C 20 1										MOTOR KVA : 2.0	
	8	SPARE	A 20 1										LIGHTING KVA : 0.0	
	10	SPARE	B 20 1										KITCHEN KVA : 4.5	
	12	SPARE	C 20 1										OTHER KVA : 4.5	
	1	14 OOM RM LUMEN	A 15 1							0.5	0.5		PHASE A KVA : 4.0	
	1	16 OOM RM LUMEN	B 15 1							0.5	0.5		AMPS : 33.3	
	18	SPACE	C -										PHASE B KVA : 3.5	
	20	SPACE	A -										AMPS : 29.2	
	22	SPACE	B -										PHASE C KVA : 1.2	
	24	SPACE	C -										AMPS : 9.9	
	26	SPACE	A -											
	28	SPACE	B -											
	30	SPACE	C -											
	32	SPACE	A -											
	34	SPACE	B -											
	36	SPACE	C -											
	38	SPACE	A -											
	40	SPACE	B -											
	42	SPACE	C -											
NOTES/REMARKS:			DEMAND / DIVERSITY FACTORS											
1. EXISTING LOAD			LOAD	DESCRIPTION						DEMAND				
2.			R	RECEPTACLES - TO 10KVA						100%	=	0.2		
3.				REMAINING OVER 10KVA						50%	=	2.0		
			H	HEATING						100%	=	2.0		
			M	MOTORS						100%	=	2.5		
			LM	LARGEST MOTOR						125%	=	0.0		
			L	LIGHTING						125%	=	0.0		
			K	KITCHEN						100%	=	4.5		
			O	OTHER						100%	=	4.5		

(E) PANEL 'L1' (SECTION 2) (BEFORE)														
PROJECT NAME											PROJECT #			
LOCATION											FED FROM			
NOTE	CKT NO.	CIRCUIT NAME	CB SIZE	LOAD (KVA)					TOTAL					PANEL DESCRIPTION
			Ø	A	R	H	M	L	K	O				
	1	43 REC - SUITE 109 & 110	A 20 1	0.7								0.7	PANEL AMPS : 225	
	1	45 REC - SUITE 109 & 110	B 20 1	0.7								0.7	FEDDER AMPS : 225	
	1	47 REC - SUITE 109 & 110	C 20 1	0.7								0.7	L - L VOLTS : 208	
	1	49 REC - SUITE 109	A 20 1	0.5								0.5	L - N VOLTS : 120	
	1	51 REC - SUITE 109	B 20 1	0.5								0.5	PHASE : 3	
	1	53 REC - SUITE 109	C 20 1	0.5								0.5	WIRE : 4	
	1	55 REC - SUITE 110	A 20 1	0.5								0.5		
	1	57 REC - SUITE 110	B 20 1	0.5								0.5		
	1	59 REC - SUITE 110	C 20 1	0.4								0.4	M.L.O. <input checked="" type="checkbox"/>	
	1	61 REC - SUITE 110 PHONE ROOM	A 20 1	0.2								0.2	MAIN CB <input checked="" type="checkbox"/>	
	1	63 REC - SUITE 110 PHONE ROOM	B 20 1	0.2								0.2	FLUSH <input checked="" type="checkbox"/>	
	1	65 REC - EXISTING	C 20 1	0.2								0.2	SURFACE <input checked="" type="checkbox"/>	
	1	67 REC - EXISTING	A 30 2	1.0								1.0	ISO GND <input checked="" type="checkbox"/>	
	1	69 -	B -	-	1.0							1.0	FEED-THRU <input checked="" type="checkbox"/>	
	1	71 REC - SUITE 110 COPPER	C 20 1							0.8	0.8			
	1	73 REC - SUITE 110 COPPER	A 20 1							0.8	0.8			
	1	75 SPARE	B 20 1											
	1	77 SPARE	C 20 1											
	1	79 TIMELOCK PHOTOCCELL	A 20 1							0.5	0.5		LOAD SUMMARY	
	1	81 SPRINKLERS	B 20 1							0.5	0.5		(TOTAL ALL SECTIONS)	
	1	83 F.A. SMOKE DAMPERS	C 20 1					1.0				1.0		
	1	44 REC - SUITE 110	A 20 1	0.5								0.5	REC KVA : 16.2	
	1	46 REC -												