THIS DOCUMENT AND ATTACHMENT(S) ARE AVAILABLE FOR DOWNLOAD AT

http://www.bxwa.com/bxwa toc/pub/1687/toc.html

AN EMAIL NOTIFICATION WAS SENT TO REGISTERED PLANHOLDERS. FAILURE TO ACKNOWLEDGE RECEIPT ON THE BID FORM DOES NOT AFFECT THE BIDDER'S OBLIGATION FOR COMPLIANCE.



ADDENDUM NO. 1

WASHINGTON STATE PARKS AND RECREATION COMMISSION LEWIS AND CLARK TRAIL STATE PARK COMFORT STATION RENOVATION EW-C6530

DATE: December 5, 2024

ATTENTION TO PLANHOLDERS OF RECORD. The following revisions are hereby made a part of the Contract Documents. Please be sure to acknowledge all Addenda on the Bid Form.

CHANGES TO THE DRAWINGS

- The posted drawing set has been revised.
- On **Sheet 2**, a keynote has been added to indicate the replacement of the sidewalk around the building. This note was not included in the original posted set.

Action Required:

Please remove the original drawing set in its entirety and replace it with the attached revised set, which includes **Sheets 1-17**.

ATTACHMENTS

- Revised Drawings (17 sheets).
- Pre-Bid Meeting Sign-In Sheet.

For questions or further clarification, please contact Ned Warnick, Project Representative at (509) 332-3113, nwarnick@designwestpa.com, or State Parks Representative Alex McMurry at (360) 902-0930, alex.mcmurry@parks.wa.gov.

Brett Taylor	12/05/24	
Brett Taylor, Procurement Coordinator Contracts and Grants Program	Date	

WASHINGTON STATE PARKS & RECREATION COMMISSION

SOPHIA DANENBERG, CHAIR

KEN BOUNDS LAURIE CONNELLY

SCOTT MERRIMAN MICHAEL LATIMER

ALI RAAD **HOLLY WILLIAMS**

DIANA DUPUIS, DIRECTOR



APPROVED FOR CONSTRUCTION

Area Manager: AUDRA SIMS

LEWIS & CLARK TRAIL STATE PARK

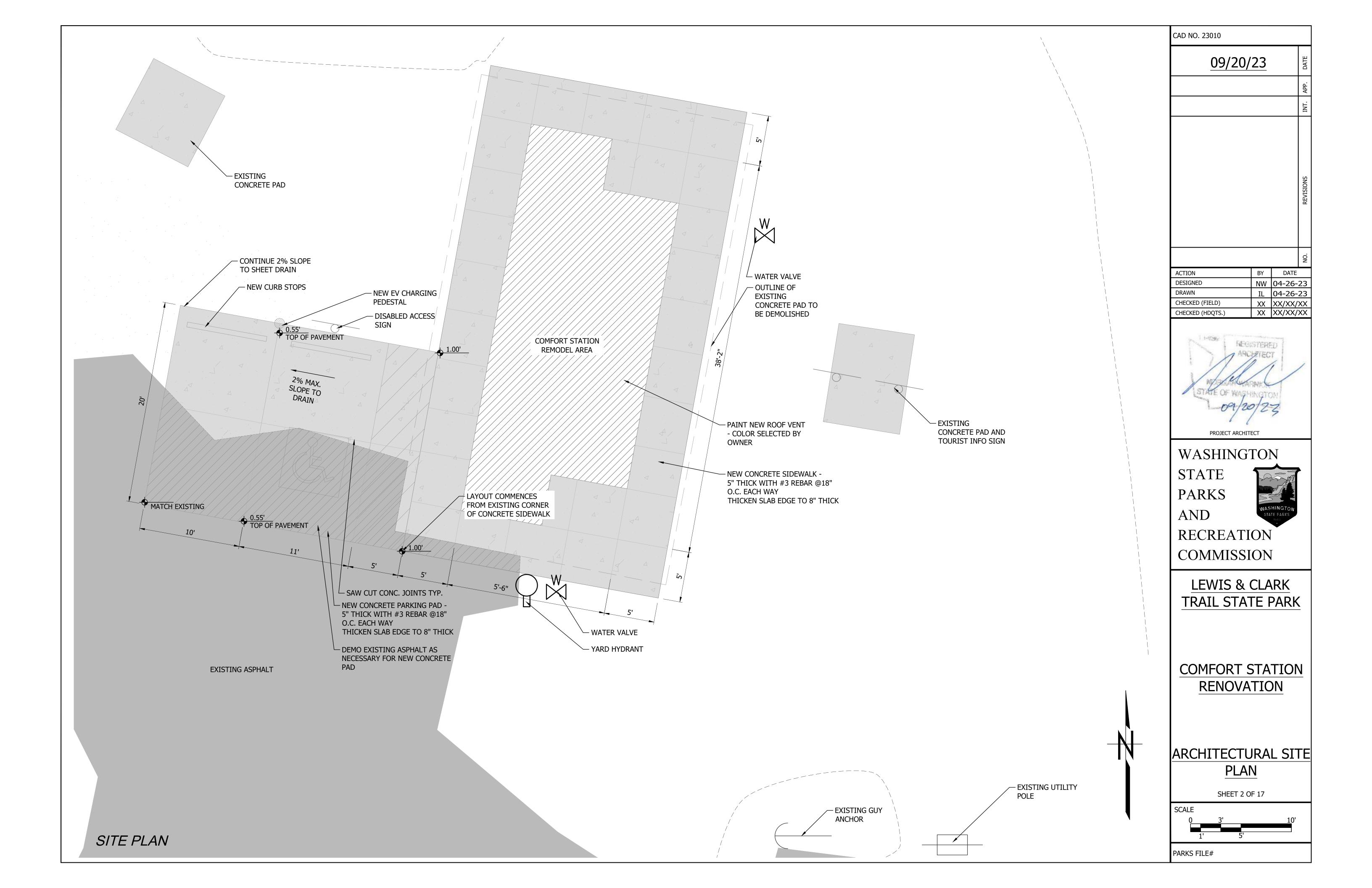
COMFORT STATION RENOVATION

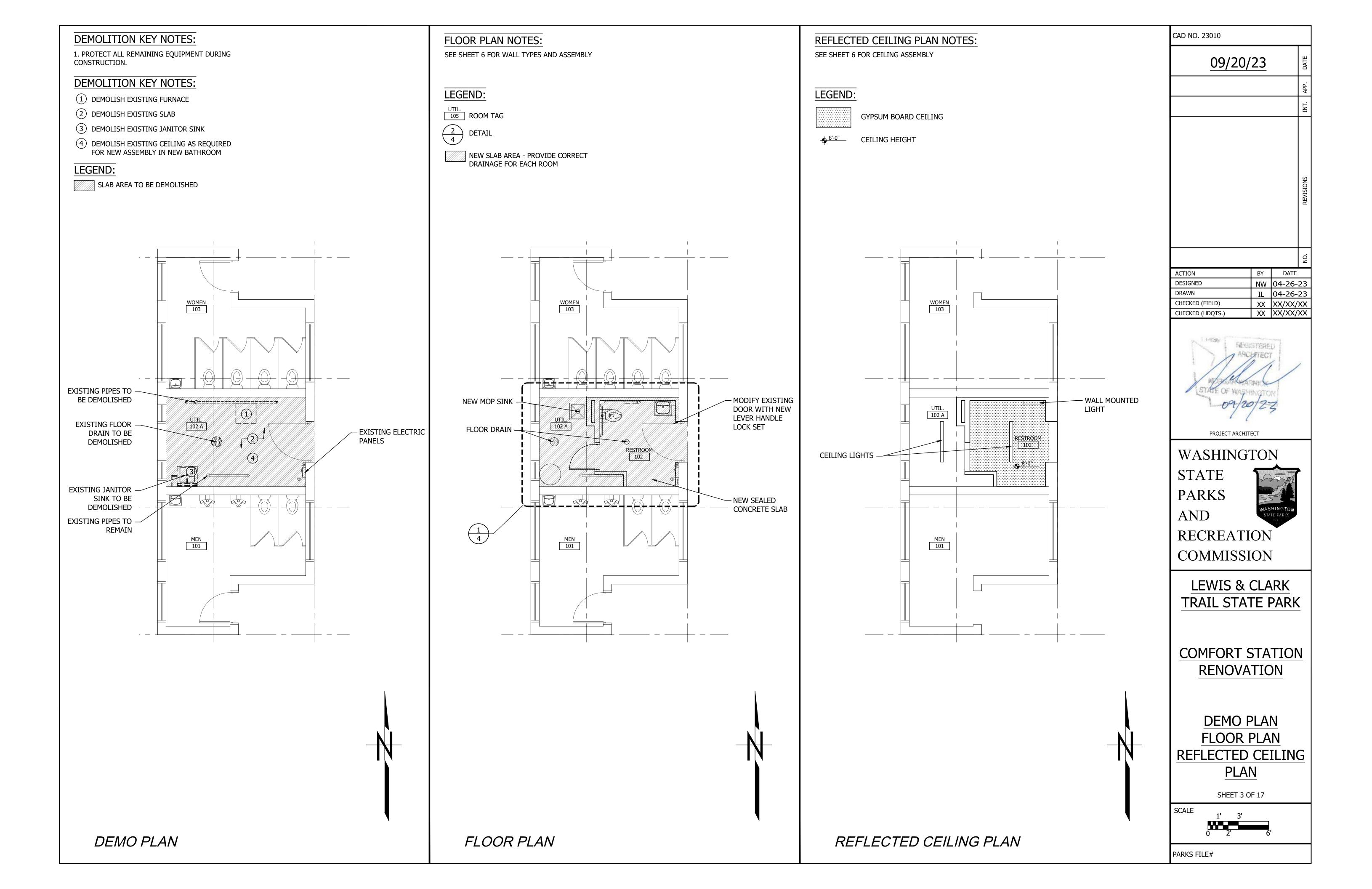


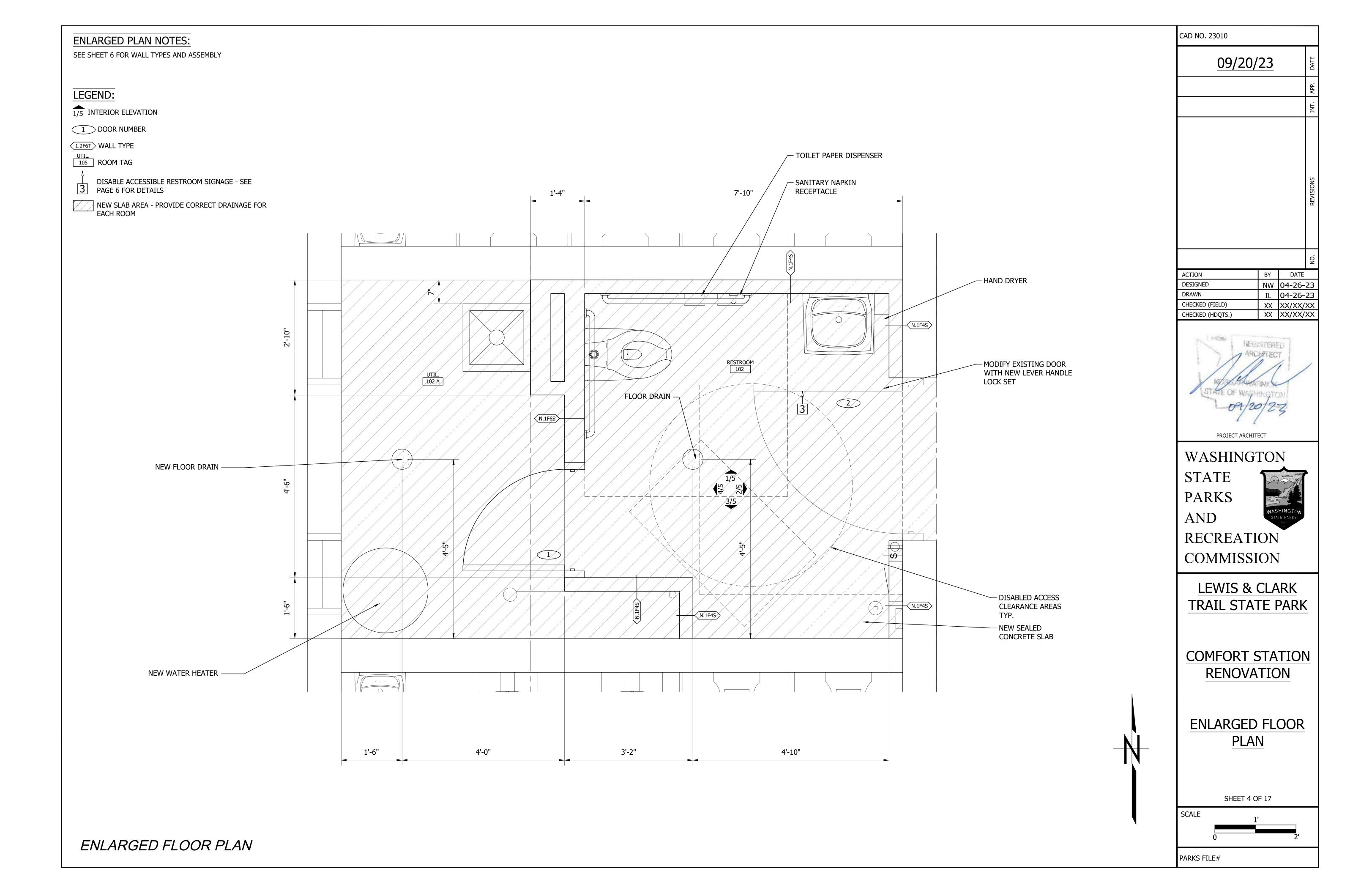


INDEX

SHEET	DESCRIPTION	
1	COVER SHEET	
2	ARCHITECTURAL SITE PLAN	
3	DEMO PLAN, FLOOR PLAN AND REFLECTED CEILING PLA	N
4	ENLARGED FLOOR PLAN	
5	INTERIOR ELEVATIONS, ROOM SCHEDULE AND DISABLE ACCESSIBLE MOUNTING HEIGHTS	
6	DETAILS	PRO
7	MECHANICAL SCHEDULES, NOTES, LEGENDS, ABBREVIATIONS	PROJECT MANAGER TO PROVIDE
8	MECHANICAL DEMO PLAN HVAC	ΓMAΓ
9	MECHANICAL FLOOR PLAN HVAC)JEC
10	PLUMBING SCHEDULES, NOTES, LEGENDS, ABBREVIATIONS	TITLE = PR(
11	PLUMBING DEMO PLAN	F
12	PLUMBING FOUNDATION PLAN	PROJEC
13	PLUMBING FLOOR PLAN	
14	ELECTRICAL LEGENDS & ABBREVIATIONS	-YEAF
15	ELECTRICAL SCHEDULES AND SINGLE LINE	CODE
16	ELECTRICAL SITE PLAN	ECTO
17	ELECTRICAL DEMO PLAN AND FLOOR PLAN	CAD#: PARKCODE-PROJECTCODE-YEAR



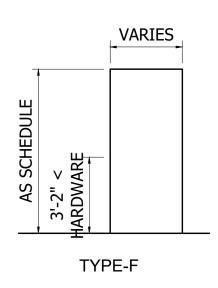




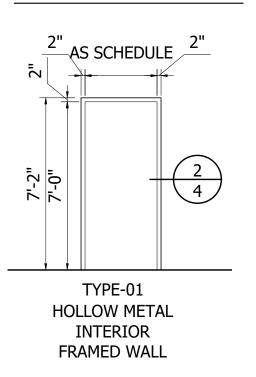
DOOR SCHEDULE

MARK	DOOR					FRAME		ASSEM.	HW
	SIZE	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	RATING	GROUP
01	2'6"X7'0"	F	HM	FF	01	HM	PT	-	02
02	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	01

DOOR TYPES



DOOR FRAME TYPES

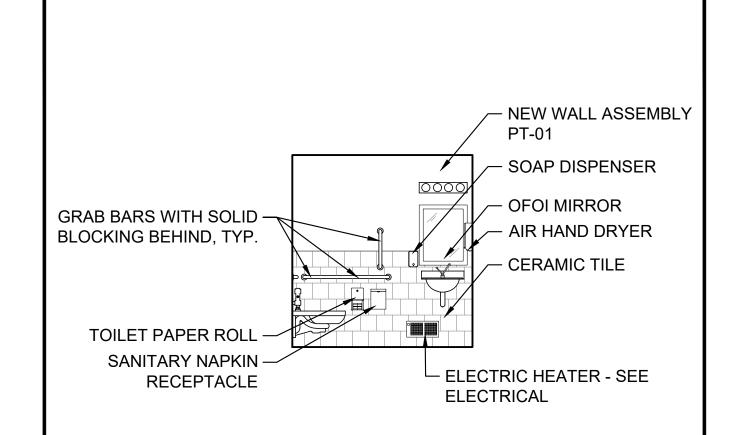


FINISH SCHEDULE

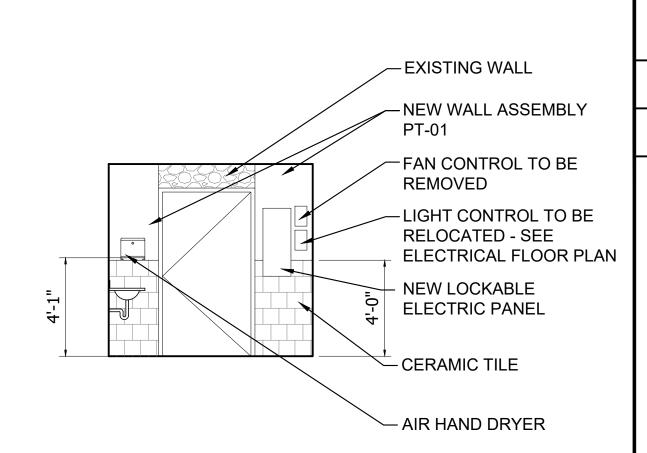
		FLOOR BAS		NOR ⁻	ΓH WALL	EAST	WALL	SOUTH	WALL	WEST	WALL	CEIL	ING
		FINISH	MATL	MATL	FINISH	MATL	FINISH	MATL	FINISH	MATL	FINISH	MATL	FINISH
	102	CONC	СТ	GB	PT/CT	GB	PT/CT	GB	PT/CT	GB	PT/CT	GB	PT
	102A	CONC.	EXIST.	EXIST.	EXIST.	GB.	PT	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.

ABBREVIATION KEY

СТ	CERAMIC TILE
CONC	SEALED CONCRETE
FF	FACTORY FINSIH
GB	GYPSUM BOARD
НМ	HOLLOW METAL
PLAM	PLASTIC LAMINATE
PT	PAINT







2 INTERIOR ELEVATION



BY DATE

NW 04-17-23

IL 04-26-23

XX XX/XX/XX

XX XX/XX/XX

CAD NO. 23010

ACTION

DRAWN

DESIGNED

CHECKED (FIELD)

CHECKED (HDQTS.)

STATE

09/20/23

PROJECT ARCHITECT

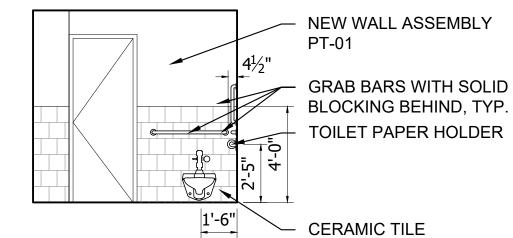
WASHINGTON

NEW WALL ASSEMBLY PT-01

CERAMIC TILE

RUBBER BASE 6" TYP.





4 INTERIOR ELEVATION

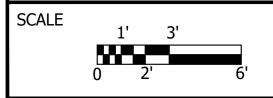


LEWIS & CLARK
TRAIL STATE PARK

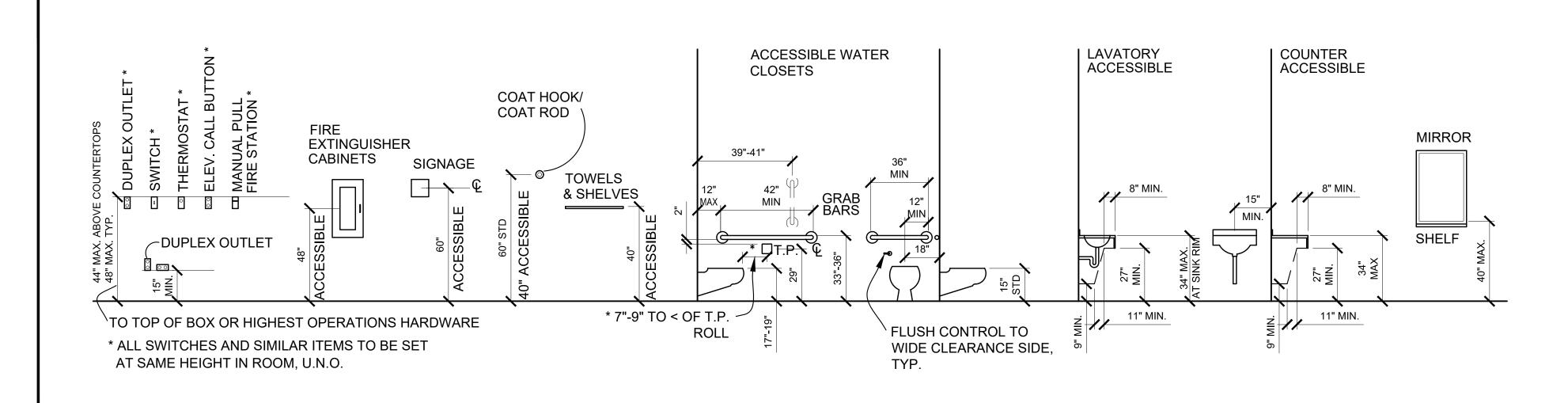
COMFORT STATION RENOVATION

INTERIOR
ELEVATIONS
ROOM SCHEDULE
DISABLE ACCESSIBLE
MOUNTING HEIGHTS

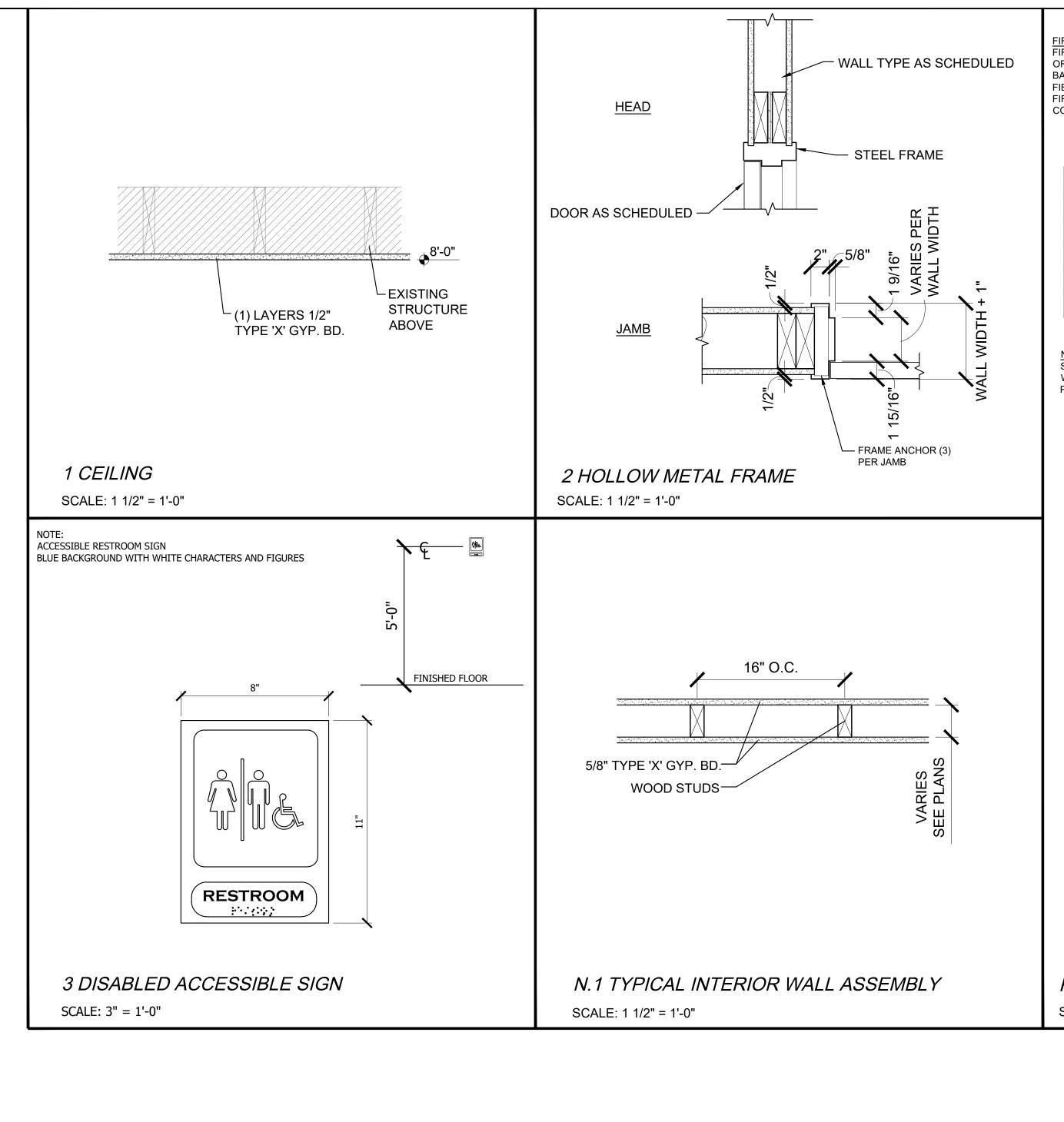
SHEET 5 OF 17



PARKS FILE#

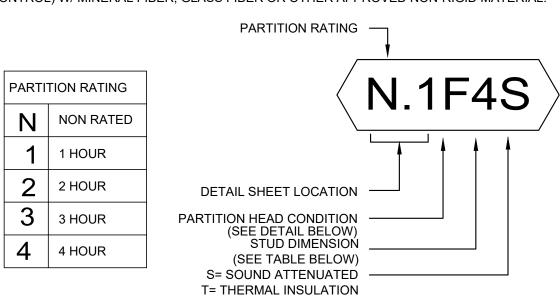


DISABLE ACCESSIBLE MOUNTING HEIGHTS

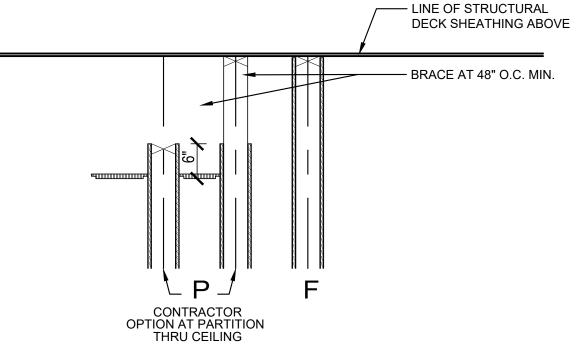


FIREBLOCKING CONSTRUCTION: (1BC SEC. 717)
FIREBLOCKING SHALL BE 2" NOM. LUMBER OR (2) LAYERS 1" NOM. LUMBER W/ BROKEN LAP JOINTS OR (1) LAYER OF 0.719 INCH WOOD STRUCTURAL PANELS OR (1) 0.75 INCH PARTICLEBOARD W/ JTS BACKED W/ 0.75 INCH PARTICLEBOARD. FIREBLOCKS MAY ALSO BE GWB, CEMENT BD., MINERAL FIBER, GLASS FIBER OR OTHER APPROVED MATERIALS SECURELY FASTENED IN PLACE.

FIRESTOP WALLS HAVING PARALLEL OF STAGGERED STUDS (FOR SOUND TRANSMISSION CONTROL) W/ MINERAL FIBER, GLASS FIBER OR OTHER APPROVED NON-RIGID MATERIAL.



NOTE:
SOUND ATTENUATED CONDITION DEFINED BY "S" REQUIRES ACOUSTICAL INSULATION IN ALL WALL VOIDS & ACOUSTICAL SEALANT AT TOP/BOTTOM & EDGES OF WALL CONSTRUCTION AND PER GA-600-2006 FIRE RESIST. DESIGN MANUAL, SECTION III.



	STUD DIMENSION	CMU NOM. DIM.	ACOUSTIC INSUL	THERMAL INSUL
0	-		N.A.	N.A.
1	3/4" WOOD		1" UNO.	1" UNO.
2	1 1/2" WOOD		2 1/2" UNO.	2 1/2" UNO.
4	3 1/2" WOOD	4"	3.5" UNO	3 1/2" R11 UNO
6	5 1/2" WOOD	6"	5.5" UNO.	5 1/2" R21 UNO.
8	7 1/4" WOOD	8"	5.5" UNO.	5 1/2" R21 UNO.
10	9 1/4" WOOD	10"	5.5" UNO.	5 1/2" R21 UNO.
12	11 1/4" WOOD	12"	5.5" UNO.	5 1/2" R21 UNO.

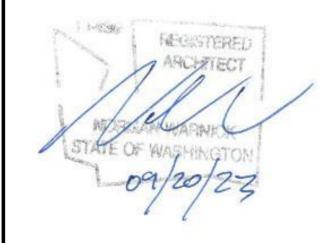
PARTITION HEAD TYPES

SCALE: FULL SIZE

PARTITION ASSEMBLY HEAD TYPES

CAD NO. 23010							
09/20/23	DATE						
	APP.						
	INT.						
	REVISIONS						
	NO.						

ACTION	BY	DATE
DESIGNED	NW	04-17-23
DRAWN	IL	04-26-23
CHECKED (FIELD)	XX	XX/XX/XX
CHECKED (HDQTS.)	XX	XX/XX/XX



PROJECT ARCHITECT

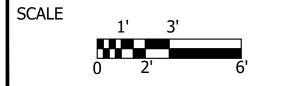
WASHINGTON
STATE
PARKS
AND
RECREATION
COMMISSION

LEWIS & CLARK
TRAIL STATE PARK

COMFORT STATION RENOVATION

DETAILS

SHEET 6 OF 17



EXHAUST FAN SCHEDULE

(#)	MFR	MODEL	TYPE	CFM	DRIVE	ESP	RPM	INLET	WEIGHT	MO	TOR	NOTES
	IVIER	WIODEL	ITE	CFW	DRIVE	(")	KEW	SONES	(LBS)	V/PH	HP	NOTES
EF-1	COOK	100SQN15D	INLINE	550	DIRECT	0.5	1677	6.8	50	120/1	1/8	1

- (1) FEATURES, OPTIONS AND ACCESSORIES SHALL INCLUDES:
 - DISCONNECTS PROVIDED BY DIV 26. EC MOTOR WITH MANUAL SPEED ADJUSTMENT DIAL ON MOTOR.
 - FACTORY MOUNTING BRACKET. 120V MOTORIZED BACKDRAFT DAMPER

AIR OUTLETS SCHEDULE

(#)	MFR	MODEL	SERVICE	TYPE	MATERIAL	PATTERN	FINISH	BLADE			NOTES
								SPC (")	POS	DEFL (°)	NOTES
1	PRICE	96	HEAVY DUTY RETURN	GRILLE	ALUMINUM	FIXED	ALUM.	3/4	ANGLED DOWN	45	123

- 1 PAINT THE INSIDE SURFACE OF THE DUCT CONNECTION FLAT BLACK, UNLESS OTHERWISE PROVIDED WITH DUCT LINER.
- PROVIDE BALANCING DAMPER IN BRANCH DUCT SERVING AIR OUTLET AT TAKEOFF FROM TRUNK DUCT.
- PROVIDE TRANSITION FROM AIR OUTLET NECK TO BRANCH DUCT AS REQUIRED.

ELECTRIC WALL HEATER SCHEDULE

				ΔΤ	ELEC	TRICAL	
MFR	MODEL	MOUNTING	CFM	(°F)	V/PH	WATTS	NOTES
INDEECO	WRI	RECESSED WALL	40	60	240/1	750	1
INDEECO	WRI	RECESSED WALL	40	60	240/1	750	1
INDEECO	CLI	RECESSED CEILING	80	50	240/1	1250	1
INDEECO	CLI	RECESSED CEILING	80	50	240/1	1250	1
INDEECO	CLI	RECESSED CEILING	80	50	240/1	1250	1
INDEECO	CLI	RECESSED CEILING	80	50	240/1	1250	1
	INDEECO INDEECO INDEECO	INDEECO WRI INDEECO CLI INDEECO CLI INDEECO CLI INDEECO CLI	INDEECO WRI RECESSED WALL INDEECO WRI RECESSED WALL INDEECO CLI RECESSED CEILING INDEECO CLI RECESSED CEILING INDEECO CLI RECESSED CEILING INDEECO CLI RECESSED CEILING	INDEECO WRI RECESSED 40 INDEECO WRI RECESSED 40 INDEECO CLI RECESSED 80 INDEECO CLI RECESSED 80	MFR MODEL MOUNTING CFM (°F) INDEECO WRI RECESSED 40 60 INDEECO CLI RECESSED 80 50 INDEECO CLI RECESSED 60 50	MFR MODEL MOUNTING CFM Δ1 (°F) V/PH INDEECO WRI RECESSED WALL 40 60 240/1 INDEECO WRI RECESSED WALL 40 60 240/1 INDEECO CLI RECESSED CEILING 80 50 240/1 INDEECO CLI RECESSED CEILING 80 50 240/1 INDEECO CLI RECESSED CEILING 80 50 240/1	MFR MODEL MOUNTING CFM (°F) V/PH WATTS INDEECO WRI RECESSED WALL 40 60 240/1 750 INDEECO WRI RECESSED WALL 40 60 240/1 750 INDEECO CLI RECESSED CEILING 80 50 240/1 1250 INDEECO CLI RECESSED CEILING 80 50 240/1 1250 INDEECO CLI RECESSED CEILING 80 50 240/1 1250

(1) FEATURES, OPTIONS AND ACCESSORIES SHALL INCLUDE: - INTEGRAL TAMPER-PROOF THERMOSTAT PROVIDE WITH WALL BOX FOR RECESSED MOUNTING AND FACTORY DISCONNECT - CONFIRM COLOR SELECTION WITH ARCHITECT

	ROOF HOOD SCHEDULE										
#	MFR	MODEL	SERVICE	SIZE (W"XH")	CFM	MAX S.P. (" WC)	NOTES				
RH-1	GREENHECK	GRSR	EF-1 EXHAUST	10X10	550	0.10	1				

(1) FEATURES, OPTIONS AND ACCESSORIES SHALL INCLUDE:

 ALUMINUM INSECT SCREEN PRE-FABRICATED ROOF CURB FOR PITCHED SHINGLES ROOF APPLICATION - SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING LOCATION.

GENERAL NOTES

- THE MECHANICAL SYSTEMS SHALL CONSIST OF ALL WORK SHOWN ON THE MECHANICAL DRAWINGS, DIAGRAMS AND AS DESCRIBED IN ASSOCIATED TECHNICAL SPECIFICATIONS.
- REFER TO SPECIFICATIONS AND ALL OTHER DIVISION DOCUMENTS FOR ADDITIONAL REQUIREMENTS. COORDINATE WORK SHOWN ON THE DRAWINGS WITH THE SPECIFICATIONS. IN CASE OF DISCREPANCY BETWEEN SPECIFICATIONS AND DRAWINGS REFER TO THE GENERAL CONDITIONS AND NOTIFY THE A/E FOR
- MECHANICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES.
- MODEL NUMBERS OF EQUIPMENT SHOWN ON THE SCHEDULES AND THROUGHOUT THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MFR/MODEL ALONE. REVIEW THE COMPLETE DESCRIPTION, LOCATION AND ARRANGEMENT ON THE DRAWINGS, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL, CONFIGURATION AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS OF DESIGN.
- HVAC SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH THE 2018 WA STATE ENERGY CODE, THE PROJECT SPECIFICATIONS AND GENERALLY ACCEPTED ENGINEERING STANDARDS TO ENSURE AT A MINIMUM THAT AIR AND WATER FLOW RATES ARE MEASURED AND ADJUSTED TO DELIVER THE DESIGN RATES WITHIN SPECIFIED TOLERANCES.
- THE MECHANICAL PLANS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS AND FITTINGS. PROVIDE ALL NECESSARY OFFSETS, TRANSITIONS AND FITTINGS REQUIRED FOR A COMPLETE SYSTEM. REFER TO ARCHITECTURAL, STRUCTURAL, PLUMBING AND ELECTRICAL DRAWINGS FOR COORDINATION PURPOSES TO AVOID CONFLICTS.
- INSTALL ALL MECHANICAL WORK AS HIGH AS POSSIBLE, TIGHT TO STRUCTURE ABOVE, UNLESS NOTED OTHERWISE. IN GENERAL IT IS THE INTENT THAT ALL MECHANICAL SYSTEMS BE CONCEALED ABOVE CEILINGS OR INSIDE WALLS AND SHAFTS.
- COORDINATE ALL EXPOSED MECHANICAL SYSTEMS, PIPING AND DUCTWORK SO THAT LOCATIONS AND ROUTING ARE INTEGRATED WITH THE OTHER BUILDING ELEMENTS (WALLS, ROOFS, JOISTS, LIGHTS, ETC.). GENERALLY RUN SYSTEMS PARALLEL OR PERPENDICULAR TO BUILDING ELEMENTS AND RUN IN A MANNER TO CONCEAL OR BLEND WITH BUILDING LINES.
- PROVIDE NEC CODE MINIMUM HORIZONTAL AND VERTICAL WORKING CLEARANCES FOR ALL ELECTRICAL PANELS AND EQUIPMENT. OFFSET MECHANICAL WORK AS REQUIRED.
- COORDINATE ALL MECHANICAL WORK WITH THAT OF OTHER TRADES TO ENSURE PROPER INTERFACE, ADEQUATE CLEARANCES, AND TO AVOID CONFLICTS. PROVIDE FIELD COORDINATION AND/OR DRAWINGS PRIOR TO FABRICATION AND/OR INSTALLATION. CONFLICTS AND INTERFERENCES THAT COULD HAVE BEEN AVOIDED BY PROPER PRE-PLANNING AND COORDINATION SHALL BE REMOVED AND CORRECTED AT NO COST TO THE OWNER.
- FIELD LOCATE ALL ROOF, FLOOR AND WALL PENETRATIONS AND ADJUST TO AVOID CONFLICT WITH STRUCTURAL ELEMENTS, BEAMS, CROSS-BRACING, ARCHITECTURAL ELEMENTS. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING ALL SAW CUTTING AND DRILLING REQUIRED FOR MECHANICAL SYSTEM OPENINGS.
- HANGERS, SUPPORTS AND ANCHORS FOR MECHANICAL SYSTEMS AND EQUIPMENT ARE NOT NECESSARILY DESIGNED OR SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPORT MEMBERS. HANGERS. BRACKETS. HARDWARE, CLEVIS HANGERS, RODS, ETC. TO SECURELY HANG, BRACE AND SUPPORT MECHANICAL SYSTEMS, DUCTWORK, PIPING, EQUIPMENT AND OTHER DEVICES. ANCHOR SUPPORTS TO BUILDING STRUCTURE OR OTHER APPROPRIATE BUILDING ELEMENTS. SEE TYPICAL MECHANICAL DETAILS, ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION, LIMITATIONS AND DETAILS.
- ROOF CURBS: ROOF CURBS SHALL BE MOUNTED PLUMB AND LEVEL ON PITCHED ROOFS. PROVIDE FACTORY CURBS WITH CORRECT SLOPE OR PROVIDE FIELD INSTALLED BLOCKING AND SHIMS BELOW CURB. ALL WOOD PRODUCTS SHALL BE PRESSURE TREATED LUMBER.
- COORDINATE THE FURNISHING AND INSTALLATION OF ALL ELECTRICAL DISCONNECT SWITCHES, STARTERS, VFDS, ETC., IN ORDER TO ASSURE THAT ALL ENERGIZED MECHANICAL IS PROVIDED WITH THE REQUIRED CIRCUIT PROTECTION METHODS AND CONTROL DEVICES. WHERE DRAWINGS NOTES, SCHEDULES AND EQUIPMENT SPECIFICATIONS ARE SILENT OR UNCLEAR AS TO WHICH DIVISION (22-PLBG, 23-HVAC, OR 26-ELECTRICAL) IS TO PROVIDE THESE DEVICES, THE CONTRACTOR SHALL CONTACT THE ENGINEER, PRIOR TO BID, FOR DIRECTION.
- 15. VOLUME DAMPERS ARE NOT SHOWN FOR CLARITY. PROVIDE A DAMPER FOR EACH SUPPLY, RETURN AND EXHAUST OPENING AND IN BRANCHES WHERE THREE OR MORE OPENINGS ARE ASSOCIATED WITH THE BRANCH AND ELSEWHERE AS NOTED ON THE DRAWINGS OR SPECIFICATIONS.
- 16. PROVIDE CONCEALED DAMPER REGULATORS FOR ALL VOLUME DAMPERS OVER INACCESSIBLE CEILINGS AND SOFFITS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- 17. PROVIDE DIFFUSER AND GRILLE FRAMES COMPATIBLE WITH ARCHITECTURAL CEILING TYPE. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPE.
- 18. ALL DUCTWORK SIZES SHOWN ARE OUTSIDE DIMENSIONS, UNLESS SPECIFICALLY NOTED ON PLANS. DUCT LINER HAS BEEN ACCOUNTED FOR ON LINED DUCT. ADDITIONAL CLEARANCE WILL NEED TO BE ACCOUNTED FOR FOR EXTERNALLY INSULATED DUCT
- 19. TURNING VANES: ALL RECTANGULAR DUCT ELBOWS SHALL BE PROVIDED WITH TURNING VANES, WHETHER OR NOT SPECIFICALLY SHOWN ON THE DUCTWORK DRAWING PLANS AND SECTIONS.
- 20. PROVIDE TRANSITIONS AS REQUIRED TO TO CONNECT DUCTWORK TO TERMINAL UNITS, FANS, AIR HANDLERS CONNECTIONS, ETC.
- 21. PROVIDE FLEXIBLE DUCT FITTINGS ON CONNECTIONS TO ALL ENERGIZED AIR MOVING EQUIPMENT (FANS, AIR HANDLERS, ETC.).

		MECHANICAL AE	3BREV	'IATIONS
	AAV	AUTOMATIC AIR VENT	HW	HOT WATER
	ABV AD	ABOVE ACCESS DOOR	HX HZ	HEAT EXCHANGER HERTZ
	AFS	ACCESS DOOK AIR FLOW SWITCH	⊓∠ ID	INSIDE DIAMETER
	AFF	ABOVE FINISHED FLOOR	INV	INVERT
	AG	ABOVE GROUND	I.E.	INVERT ELEVATION
	AHU	AIR HANDLING UNIT	INSUL	INSULATION
	AL ALUM	ACOUSTICALLY LINED ALUMINUM	IND KW	INDIRECT KILOWATT
	APD	AIR PRESSURE DROP	KWH	KILOWATT HOUR
	ARCH	ARCHITECT	LAT	LEAVING AIR
	AVG	AVERAGE	1.00	TEMPERATURE
	AWT	AVERAGE WATER TEMPERATURE	LBS LDB	POUNDS LEAVING DRY BULB
	BAS	BUILDING AUTOMATION	LF	LINEAR FOOT
		SYSTEM	LWT	LEAVING WATER
	BDD	BACKDRAFT DAMPER		TEMPERATURE
	BFF BFP	BELOW FINISHED FLOOR BACKFLOW PREVENTER	LG L/P	LONG OR LENGTH LOW POINT
	BG	BELOW GROUND	L/F LWB	LEAVING WET BULB
	BHP	BRAKE HORSEPOWER	LWG	LOW WALL GRILLE
	BLDG	BUILDING	LWT	LEAVING WATER
	BP BTU	BYPASS BRITISH THERMAL UNIT	LVG	TEMPERATURE LEAVING
	BTUH	BRITISH THERMAL	MCA	MINIMUM CIRCUIT
	B1011	UNITS PER HOUR	WOY	AMPACITY
	BOD	BOTTOM OF DUCT	MOCP	MAXIMUM OVERCURRENT
	BOP	BOTTOM OF PIPE	MDII	PROTECTION
	BSMT BV	BASEMENT BALANCING VALVE	MBH	THOUSAND (1000) BTU PER HOUR
	CA	COMBUSTION AIR	MCC	MOTOR CONTROL CENTER
	CAP	CAPACITY	MFR	MANUFACTURER
	CC	CENTER TO CENTER	MS	MOTOR STARTER
	CD	OR COOLING COIL CEILING DIFFUSER	MTD MTG	MOUNTED MOUNTING
	CFM	CUBIC FEET PER MINUTE	NC	NORMALLY CLOSED
	CG	CEILING GRILLE	NO	NORMALLY OPEN
	CI	CAST IRON	MOD	MOTOR-OPERATED
	CLG COG	CEILING CLEAN OUT TO GRADE	NIC	DAMPER NOT IN CONTRACT
	CO	CLEAN OUT	NPT	NATIONAL PIPE THREAD
	COMB	COMBUSTION	NTS	NOT TO SCALE
	COND	CONDENSATE OR	OA	OUTDOOR AIR
	CONC	CONDENSER CONCRETE	OBD OD	OPPOSED BLADE DAMPER OUTSIDE DIAMETER
	CONST		OSA	OUTSIDE DIAMETER OUTSIDE AIR
	COP	COEFFICIENT OF	OAT	OUTSIDE AIR
		PERFORMANCE		TEMPERATURE
	CU CUH	COPPER CABINET UNIT HEATER	OF OFCI	OVERFLOW OWNER FURNISHED,
	CW	COLD WATER	OI CI	CONTRACTOR
	CU	CONDENSING UNIT		INSTALLED
	CR	CONDENSATE RETURN	PD	PRESSURE DROP
	CL D	CENTER LINE DEEP OR DEPTH	PH PIAC	PHASE PRESSURE INDEPENDENT
	DB	DRY BULB OR DECIBEL	PIAC	AIR CONTROLLER
	DBA	A-WEIGHTED DECIBELS	PG	PROPYLENE GLYCOL
	DCV	DEMAND CONTROL	PLBG	PLUMBING
	DDC	VENTILATION	POC PRV	POINT OF CONNECTION PRESSURE REDUCING
	DDC	DIRECT DIGITAL CONTROLS	PRV	VALVE
	DEMO	DEMOLITION	PSI	POUNDS PER SQUARE
	DN	DOWN		INCH
	DIA,	DIAMETER Ø	PSIG	POUNDS PER SQUARE
	DPS	DIFFERENTIAL PRESSURE SWITCH	PT	INCH GAUGE PRESSURE &
	DP	DROP		TEMPERATURE
	DPR	DAMPER	RA	RETURN AIR
	DWG	DRAWING	RAG	RETURN AIR GRILLE
	(E) EA	EXISTING EACH OR EXHAUST AIR	RAT	RETURN AIR TEMPERATURE
		ENTERING AIR	RD	ROOF DRAIN
		TEMPERATURE	RET	RETURN
1	FDB	ENTERING DRY BUI B	RFV	REVISION

REVOLUTIONS PER **ROOF TOP UNIT** TEMPERATURE SEASONAL ENERGY EFFICIENT RATIO SMOKE DETECTOR OR SMOKE-FIRE DAMPER STATIC PRESSURE FT SQUARE FOOT STAINLESS STEEL TRANSFER AIR TEMPERATURE THICK OR THICKNESS TOP OF DUCT UNDER FLOOR UNDERGROUND UNIT HEATER VENT OR VOLT VARIABLE AIR VOLUME VARIABLE FREQUENCY VENT THRU ROOF

REVISION

MINUTE

RETURN FAN

SUPPLY AIR

SUPPLY AIR

SENSIBLE

DAMPER SUPPLY FAN

SHEET

SQUARE

STANDARD

TOP OF PIPE

TRAP PRIMER

UNDER SLAB

VACUUM

VELOCITY

WET BULB

VOLUME DAMPER

WATER CLOSET

WALL CLEAN OUT

WATER HEATER

WATER HAMMER

ARRESTOR

WEIGHT

WATER GAUGE

WATER PRESSURE DROP

TYPICAL

URINAI

REV

SAT

SENS

SFD

SQ

SQ

SS

TΑ

TEMP

TOP

TYP

US

VAV

VEL

VFD

WHA

ENTERING DRY BULB

ENERGY EFFICIENCY

EXHAUST FAN

EXHAUST GRILLE

EMCS ENERGY MANAGEMENT

EXTERNAL STATIC

ENTERING WET BULB

FRESH AIR (OUTSIDE AIR)

FIRE DAMPER OR FLOOR

ENTERING WATER

FLOOR CLEAN OUT

FIRE DEPARTMENT

FAN COIL UNIT

CONNECTION

FULL LOAD AMPS

FLAT ON BOTTOM

FEET PER MINUTE

FEET PER SECOND

FIRE PROTECTION

FINAL FILTER

FLAT ON TOP

FINS PER INCH

FLOOR SINK

FEET/FOOT OR

FINNED TUBE

FACE VELOCITY

GAS (NATURAL)

GALLONS

GALVANIZED

HOSE BIBB

HIGH LIMIT

HEATING

HORSEPOWER

HEATING COIL

GAUGE OR GAGE

GALLONS PER MINUTE

GALLONS PER HOUR

HIGH OR HEIGHT

HOT GAS BYPASS

FLOOR

TEMPERATURE

ESTIMATE(D)

EXHAUST

ELEC ELECTRIC OR ELECTRICAL

AND CONTROL SYSTEM

EFFICIENCY

ELEV ELEVATION

ENCL ENCLOSURE

EER

EFF

ESP

FCO

FCU

FLR

FOB

FOT

FPM

GALV

GPM

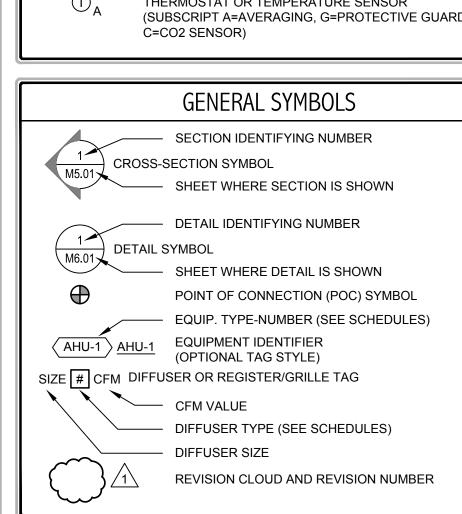
GPH

HGBP

HTG

HVAC SYMBOLS RECT. DUCT SIZE (INCHES) (FACING 12x8 SIDE LISTED FIRST) CIRCULAR DUCT DIAMETER (INCHES) 12Ø FLAT OVAL DUCT SIZE (INCHES)(FACING 24x18 F.O. SIDE LISTED FIRST) ACOUSTICALLY LINED DUCT, 1" THICK UNLESS NOTED OTHERWISE, DUCT SIZE INCLUDES ALLOWANCE FOR LINER DUCT RISE IN DIRECTION OF DUCT DROP IN DIRECTION OF ARROW FIRE OR FIRE/SMOKE DAMPER (# INDICATES TYPE) TURNING VANES HIGH EFFICIENCY BRANCH TAP FLEXIBLE DUCT CONNECTOR VOLUME CONTROL DAMPER (SEE GENERAL NOTES)

(M)	7.011011		
MOTORIZED DAMPER & ACTUATOR	DESIGNED	ASD	09-20-23
NIGTORIZED BAWII ER & AGTOATOR	DRAWN	ASD	09-20-23
	CHECKED (FIELD)	XX	XX/XX/XX
SUPPLY/OSA DUCT TURNED UP	CHECKED (HDQTS.)	XX	XX/XX/XX
SUPPLY/OSA DUCT TURNED DOWN	10 TH	Q.	
RETURN AIR DUCT TURNED UP	S. DO OF WASH	Mora	
RETURN AIR DUCT TURNED DOWN	Jam &	onnell	
EXHAUST/RELIEF DUCT TURNED UP	ASS/S REGISTERS SS/ONAL	O THE	
EXHAUST/RELIEF DUCT TURNED DOWN	PROJECT EN	GINEER	
SIDEWALL DIFFUSER/GRILLE	WASHING	OT	N
LINEAR SLOT DIFFUSER			
AIR OUTLET (SUPPLY)	STATE		The rest
AIR INLET (RETURN/RELIEF)	DADIZO	San Bark W	
AIR INLET (EXHAUST)	PARKS		
E==== LOUVER	AND		HINGTON TE PARKS
THERMOSTAT OR TEMPERATURE SENSOR (SUBSCRIPT A=AVERAGING, G=PROTECTIVE GUARD, C=CO2 SENSOR)	RECREAT	'ION	
	COMMISS	SION	Ţ
GENERAL SYMBOLS			
SECTION IDENTIFYING NUMBER	LEWIS &	CLA	١RK
CROSS-SECTION SYMBOL			
SHEET WHERE SECTION IS SHOWN	TRAIL STA	<u> </u>	PARN
DETAIL IDENTIFYING NUMBER			
M6.01 DETAIL SYMBOL			
SHEET WHERE DETAIL IS SHOWN			
POINT OF CONNECTION (POC) SYMBOL	COMFORT	STA	NOITA
EQUIP. TYPE-NUMBER (SEE SCHEDULES)			
AHU-1 AHU-1 EQUIPMENT IDENTIFIER (OPTIONAL TAG STYLE)	RENOV	AII	<u> </u>
ZE # CFM DIFFUSER OR REGISTER/GRILLE TAG			
CFM VALUE			



----- LIGHT DASHED LINES HIDDEN OR UNDERGROUND ITEMS

BOLD DASHED LINES INDICATE EXISTING ITEMS TO BE REMOVED

LINEWEIGHTS ARE GENERAL GUIDES ONLY. REFER TO DRAWING NOTES

AND WORK PHASES (DEMO OR NEW) FOR ADDITIONAL DISTINCTIONS.

BOLD LINES INDICATES NEW ITEMS

DIFFUSER SIZE REVISION CLOUD AND REVISION NUMBER	MECHANICAL SCHEDULES,
LINEWEIGHT LEGEND	NOTES, LEGENDS
LINEWLIGHT LEGEND LIGHT LINES INDICATES EXISTING ITEMS TO REMAIN	ABBREVIATIONS

SHEET 7 OF 17

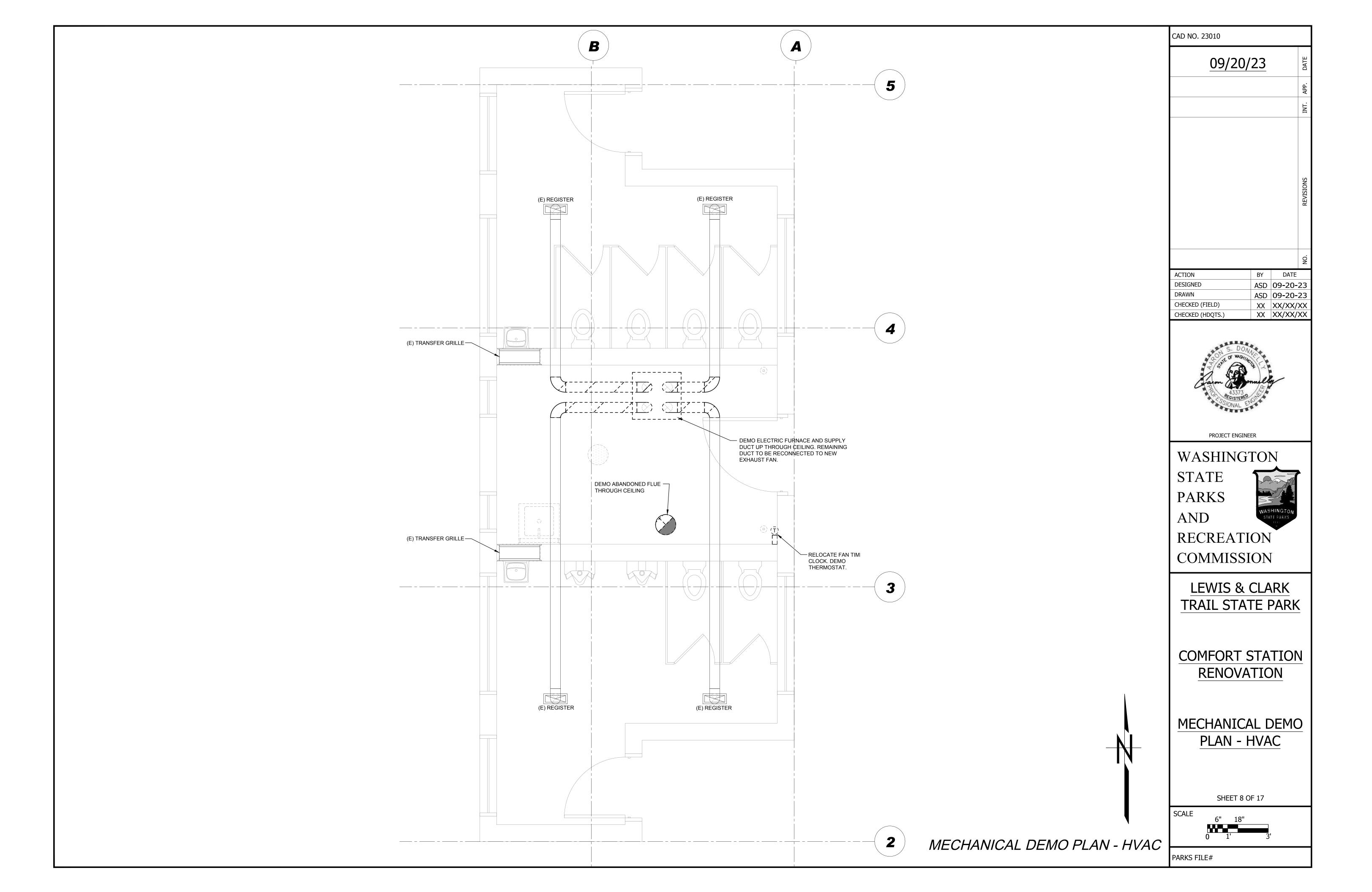
SCALE

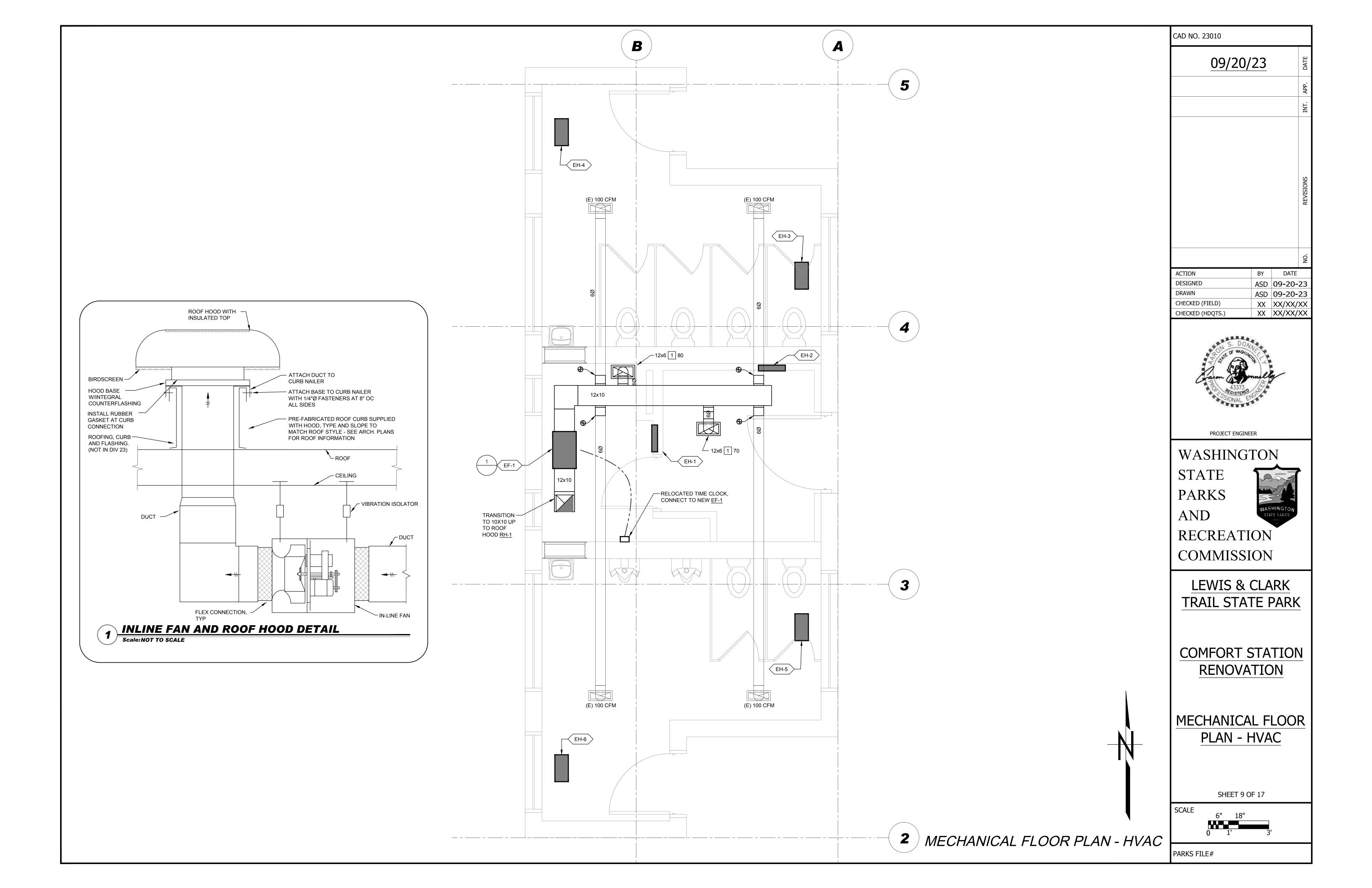
PARKS FILE#

CAD NO. 23010

09/20/23

BY DATE





PLUMBING FIXTURES

ΙL																	
$\ \ $								MFR & MODEL#									
	<u>P#</u>	FIXTURE	MFR	MODEL#	MOUNTING	MATERIAL	SIZE	OF	DRAIN	CARRIER	TRAP	W	V	HW	CW	STOPS	NOTES
								FAUCET & VALVE									
$\ \ $	<u>P1</u>	SERVICE SINK	ACORN	TRH-24	FLOOR	TERRAZZO	24"x24"x12"	CHICAGO	INTEGRAL	_	3" P-TRAP	3"	2"	3/4"	3/4"	_	M
Ш	' '	OLIVIOL OIM		110124	TEOOK	TEITIVAZZO	24 724 712	897-CP	INTEGRAL		3 1 -11VAI		_	0/-	0/4		34
	D2	ADA	AMERICAN	AFWALL	WALL	VITREOUS	ELONGATED	SLOAN ROYAL 111		JAY R. SMITH	INTEGRAL	4"	2"		1"	INTEGRAL	23
	<u>P2</u>	WATER CLOSET	STANDARD	2257101.020	VVALL	CHINA	BOWL	1.6-TP	-	0200 SERIES	INTEGRAL	+	^	_	'	INTLGNAL	
		ADA	AMERICAN	LUCERNE	WALL	VITREOUS	20"540"	CHICAGO	ELKAY	JAY R. SMITH	1½"x17GA C.P.	1½"	1½"	1/2"	1/2"	BRASS CRAFT	ക്ക
	<u>P3</u>	LAVATORY	STANDARD	0355.012	VVALL	CHINA	20"x18"	3502-E2805ABCP	LKAD174	0700 SERIES	1/4 X1/GA C.F.	1/2	1/2		1,2	STCR1915A	023
1 [•			-									•

- 1 PROVIDE WITH TRUEBRO TRAP & SUPPLIES WRAP KIT.
- (2) MOUNT PER ADA REQUIREMENTS.
- CAULK FIXTURE AT FLOOR, COUNTERTOP AND/OR WALL SURFACE WITH CAULKING.
- (4) PROVIDE WITH HOSE, HOSE HANGER AND MOP HANGER.

FLOOR DRAIN SCHEDULE

	MFR	MODEL	T) (DE		BODY	STRAINER	VARIATION	NOTEO	
FD-#	IVII IX	WODEL	TYPE	STYLE	MATERIAL	STYLE	MATERIAL	VARIATION	NOTES
FD-1	JAY R. SMITH	2005-A-P-U-Y	FLOOR DRAIN	-	CAST IRON	VANDAL-PROOF ROUND	NICKEL BRONZED	TRAP PRIMER	1
FD-2	JAY R. SMITH	2142Y-P050	FLOOR DRAIN	-	CAST IRON	VANDAL-PROOF ROUND	CAST IRON	TRAP PRIMER	

1 PROVIDE WITH SUFFIX -C WHEN LOCATED IN MECHANICAL ROOMS AND SIMILAR SPACES.

I										
	WATER HEATER SCHEDULE									
	MED	MODEL	CALL ONG	KW	THERMAL	-	ATURES	RECOVERY	EL EOTDIO AL	NOTES
#	MFR	MODEL	GALLONS	INPUT	EFFICIENCY	OUTLET (°F)	RISE (°F)	(GPH)	ELECTRICAL	
WH-1	A.O. SMITH	DEL-15	19	1.5	99.86%	120	80	8	240V / 1PH	1
DET-1	AMTROL	ST-12	4.4	-	-	-	-	-	-	-

1) SINGLE ELEMENT / NON-SIMULTANEOUS OPERATION

WATER HAMMER ARRESTER SIZING CHART

SYMBOL	FIXTURE UNIT RATING	CONNECTION TO SUPPLY PIPE
WHA-1	1-11	3/4"
WHA-2	12-32	1"

GENERAL NOTES

- THE PLUMBING SYSTEM SHALL CONSIST OF ALL WORK SHOWN ON DRAWINGS, DIAGRAMS AND AS DESCRIBED IN SPECIFICATIONS.
- NOTIFY THE A/E FOR DIRECTION.
- INSTALL ALL PLUMBING WORK AS HIGH AS POSSIBLE, TIGHT TO STRUCTURE ABOVE. COORDINATE ALL EXPOSED PLUMBING SYSTEMS SO THAT LOCATIONS AND ROUTING ARE INTEGRATED WITH THE OTHER BUILDING ELEMENTS (WALLS ROOFS, JOISTS, LIGHTS, ETC.). GENERALLY RUN SYSTEMS PARALLEL OR PERPENDICULAR TO BUILDING ELEMENTS AND RUN IN A MANNER TO CONCEAL OR BLEND WITH BUILDING LINES.
- COORDINATE ALL PLUMBING WORK WITH THAT OF OTHER TRADES TO ENSURE PROPER INTERFACE, ADEQUATE CLEARANCES, AND TO AVOID CONFLICTS. PROVIDE FIELD COORDINATION AND/OR DRAWINGS PRIOR TO FABRICATION AND/OR INSTALLATION. CONFLICTS AND INTERFERENCES THAT COULD HAVE BEEN AVOIDED BY PROPER PRE-PLANNING AND COORDINATION SHALL BE REMOVED AND CORRECTED AT NO COST TO THE OWNER.
- FIELD LOCATE ALL ROOF, FLOOR AND WALL PENETRATIONS AND ADJUST TO AVOID CONFLICT WITH STRUCTURAL ELEMENTS, BEAMS, CROSS-BRACING, ARCHITECTURAL ELEMENTS. DIV. 22 CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING ALL SAW CUTTING AND DRILLING REQUIRED FO MECHANICAL SYSTEM OPENINGS.
- ITEMS NOTED "TYPICAL" OR "TYP" ON ANY SHEET APPLY TO THAT PARTICULAR
- MODEL NUMBERS OF EQUIPMENT SHOWN ON THE SCHEDULES AND THROUGHOUT THE DRAWINGS AND SPECIFICATIONS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MFR/MODEL ALONE. REVIEW THE COMPLETE DESCRIPTION, NOTES AND
- ALL INSULATED PIPING EXPOSED TO VIEW IN OCCUPIED SPACES SHALL BE PROVIDED WITH PVC JACKETING.
- 0. PROVIDE TRAP PRIMERS ON ALL FLOOR DRAINS AND FLOOR SINKS, UNLESS PIECE BRANCHES, OR PRESSURE DROP OPERATED UNITS AS BEST FITS THE AUTOMATIC ELECTRONIC TRAP PRIMER UNITS.
 - HOT AND COLD WATER SERVING ALL RESTROOMS - AT ALL FLUSH VALVES AND OTHER QUICK ACTING VALVES
 - FIXTURES LOCATED AT THE END OF MAIN AND BRANCH PIPING RUNS - IN WATER SUPPLIES TO REMOTE SINKS
- ALL SMALL PIPING OR COMPONENTS, INSTRUMENT TAPS OR DRAINS. PROVIDE ON THE PIPING FLOW DIAGRAMS, PIPING/EQUIPMENT DETAILS AND/OR CONTROL/INSTRUMENTATION DIAGRAMS.
- ARE INTEGRATED WITH THE OTHER BUILDING ELEMENTS (WALLS, ROOFS, JOISTS, LIGHTS, ETC.). GENERALLY RUN SYSTEMS PARALLEL OR
- INTERFACE, ADEQUATE CLEARANCES, AND TO AVOID CONFLICTS. PROVIDE FIELD COORDINATION AND/OR DRAWINGS PRIOR TO FABRICATION AND/OR INSTALLATION. CONFLICTS AND INTERFERENCES THAT COULD HAVE BEEN
- THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPORT
- COORDINATE THE FURNISHING AND INSTALLATION OF ALL ELECTRICAL DISCONNECT SWITCHES, STARTERS, VFDS, ETC., IN ORDER TO ASSURE THAT ALL ENERGIZED EQUIPMENT IS PROVIDED WITH THE REQUIRED CIRCUIT PROTECTION METHODS AND CONTROL DEVICES. WHERE DRAWINGS NOTES, SCHEDULES AND EQUIPMENT SPECIFICATIONS ARE SILENT OR UNCLEAR AS TO WHICH DIVISION (22-PLBG, 23-HVAC, OR 26-ELECTRICAL) IS TO PROVIDE THESE

- COORDINATE WITH SPECIFICATIONS. IN CASE OF DISCREPANCY BETWEEN SPECIFICATIONS AND DRAWINGS REFER TO THE GENERAL CONDITIONS AND
- PROVIDE NEC CODE MINIMUM HORIZONTAL AND VERTICAL WORKING CLEARANCES FOR ALL ELECTRICAL PANELS AND EQUIPMENT. OFFSET PLUMBING WORK AS REQUIRED.

- SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS OF DESIGN.
- AUTOMATIC, ELECTRONIC TRAP PRIMER UNITS LOCATED IN THE VICINITY (FOR CLUSTERS OF MULTIPLE DRAINS), WATER CLOSET FLUSH VALVE TAPS, SINK TAIL SITUATION. ALL FLOOR DRAINS AND FLOOR SINKS IN KITCHENS, MECHANICAL MEZZANINES, AND MECHANICAL ROOMS ARE REQUIRED TO BE INSTALLED WITH
- . PROVIDE AN ACCESS PANEL WHERE REQUIRED FOR ACCESS TO WATER HAMMER ARRESTORS. PROVIDE WATER HAMMER ARRESTORS AT THE FOLLOWING LOCATIONS:
- 12. SMALL PIPING OR COMPONENTS: PIPING PLANS DO NOT NECESSARILY SHOW ALL PIPING, VALVES, SPECIALTY ITEMS, INSTRUMENTATION, ETC. AS INDICATED
- 3. THE MECHANICAL AND PLUMBING PLANS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS AND FITTINGS, PROVIDE ALL NECESSARY OFFSETS, TRANSITIONS AND FITTINGS REQUIRED FOR A COMPLETE SYSTEM. REFER TO ARCHITECTURAL, STRUCTURAL, PLUMBING AND ELECTRICAL DRAWINGS FOR COORDINATION PURPOSES TO AVOID CONFLICTS.
- 4. COORDINATE ALL EXPOSED PLUMBING SYSTEMS SO LOCATIONS AND ROUTING PERPENDICULAR TO BUILDING ELEMENTS AND RUN IN A MANNER TO CONCEAL OR BLEND WITH BUILDING LINES.
- 5. COORDINATE ALL WORK WITH THAT OF OTHER TRADES TO ENSURE PROPER AVOIDED BY PROPER PRE-PLANNING AND COORDINATION SHALL BE REMOVED AND CORRECTED AT NO COST TO THE OWNER.
- 6. HANGERS, SUPPORTS AND ANCHORS FOR MECHANICAL AND PLUMBING SYSTEMS AND EQUIPMENT ARE NOT NECESSARILY DESIGNED OR SHOWN ON MEMBERS, HANGERS, BRACKETS, HARDWARE, CLEVIS HANGERS, RODS, ETC. ANCHOR SUPPORTS TO BUILDING STRUCTURE OR OTHER APPROPRIATE BUILDING ELEMENTS.
- DEVICES, THE CONTRACTOR SHALL CONTACT THE ENGINEER, PRIOR TO BID.

ADDDEVIATIONS

ABBREVIATIONS									
AAV ABV	AUTOMATIC AIR VENT ABOVE	HW HX	HOT WATER HEAT EXCHANGER]					
ACCU	AIR COOLED CONDENSING	HZ ID	HERTZ INSIDE DIAMETER	Ш					
AD	UNIT ACCESS DOOR	INV	INVERT						
AFS	AIR FLOW SWITCH	I.E.	INVERT ELEVATION						
AFF	ABOVE FINISHED FLOOR	INSUL IND	INSULATION INDIRECT						
AG	ABOVE GROUND	K/W	KILOWATT						
AHU	ABOVE GROUND AIR HANDLING UNIT ACOUSTICALLY LINED	K/V/H	KILOWATT HOUR						
AL ALUM		L	LENGTH OR LOUVER						
ALUM	ALUMINUM AIR PRESSURE DROP	L LAT	LEAVING AIR TEMPERATURE						
ARCH		LBS							
AVG	AVERAGE	LDB	LEAVING DRY BULB						
AWT	AVERAGE WATER	LF	LINEAR FOOT						
	TEMPERATURE	LWT							
BAS	BUILDING AUTOMATION		TEMPERATURE						
	SYSTEM	LG L/P	LONG OR LENGTH LOW POINT						
BDD	BACKDRAFT DAMPER	L/P LWB	LEAVING WET BULB						
BFF	BELOW FINISHED FLOOR	LWG							
BFP	BACKFLOW PREVENTER	LWT	LEAVING WATER						
BG	BELOW GROUND BRAKE HORSEPOWER		TEMPERATURE						
BLDG	BUILDING	LVG	LEAVING						
BP	BYPASS	MCA							
BTU		MOCP	MAXIMUM OVERCURRENT						
BTUH	BRITISH THERMAL		PROTECTION						
	UNITS PER HOUR	MBH	THOUSAND (1000) BTU						
BOD	BOTTOM OF DUCT BOTTOM OF PIPE	MOO	PER HOUR						
BOP		MCC MFR	MOTOR CONTROL CENTER MANUFACTURER						
BSMT	BASEMENT	MS	MOTOR STARTER						
BV	BALANCING VALVE	MTD	MOUNTED						
C	CELSIUS COMBUSTION AIR CAPACITY	MTG	MOUNTING						
CA CAP	CAPACITY	MAU	MAKE-UP AIR UNIT						
CC	CENTER TO CENTER	NC	NORMALLY CLOSED						
	OR COOLING COIL	NO	NORMALLY OPEN						
CD	CEILING DIFFUSER	MOD	MOTOR-OPERATED DAMPER						
CFM	CUBIC FEET PER MINUTE	NIC	NOT IN CONTRACT						
CG	CEILING GRILLE	NPT	NATIONAL PIPE THREAD						

NOT TO SCALE NTS OUTDOOR AIR

POUNDS PER SQUARE INCH

PRESSURE & TEMPERATURE

RETURN AIR TEMPERATURE

REVOLUTIONS PER MINUTE

SUPPLY AIR TEMPERATURE

RECIRCULATING HOT WATER

POUNDS PER SQUARE

RETURN AIR GRILLE

INCH GAUGE

RETURN AIR

ROOF DRAIN

RETURN FAN

ROOF TOP UNIT

SEASONAL ENERGY

EFFICIENT RATIO

SMOKE DETECTOR OR

SMOKE-FIRE DAMPER

STATIC PRESSURE

FT SQUARE FOOT

STAINLESS STEEL

TRANSFER AIR

TEMPERATURE

TOP OF DUCT

TRAP PRIMER

TERMINAL UNIT

UNDER FLOOR

UNIT HEATER

UNDER SLAB

VENT OR VOLT

VARIABLE AIR VOLUME

VARIABLE REFRIGERANT

VARIABLE REFRIGERANT

WATER HAMMER ARRESTOR

WATER PRESSURE DROP

VENT THRU ROOF

WIDE OR WIDTH

WATER CLOSET

WALL CLEAN OUT

WATER HEATER

WATER GAUGE

WEIGHT

VOLUME DAMPER

VARIABLE FREQUENCY DRIVE

UNDERGROUND

TOP OF PIPE

TYPICAL

URINAL

VACUUM

VELOCITY

VOLUME

WET BULB

FLOW

THICK OR THICKNESS

SUPPLY AIR

SENSIBLE

DAMPER

SHEET

SQUARE

STANDARD

SUPPLY FAN

RETURN

REVISION

RTU

SD

SS

STD

TOD

TOP

TYP

VEL

VFD

VD

WG

WPD

CAST IRON CEILING OPPOSED BLADE DAMPER CLEAN OUT TO GRADE COG OUTSIDE DIAMETER CO CLEAN OUT OUTSIDE AIR COMB COMBUSTION OUTSIDE AIR TEMPERATURE COND CONDENSATE OR CONDENSER OVERFLOW CONC CONCRETE OWNER FURNISHED, CONST CONSTRUCTION CONTRACTOR INSTALLED

COEFFICIENT OF PERFORMANCE PRESSURE DROP COPPER CABINET UNIT HEATER PRESSURE INDEPENDENT CW COLD WATER AIR CONTROLLER CU CONDENSING UNIT PROPYLENE GLYCOL CONDENSATE RETURN PLUMBING CENTER LINE POINT OF CONNECTION DEEP OR DEPTH PRESSURE REDUCING VALVE

DRY BULB OR DECIBEL DB A-WEIGHTED DECIBELS DDC DIRECT DIGITAL CONTROLS DEMO DEMOLITION DN DOWN

DIAMETER Ø DIFFERENTIAL PRESSURE SWITCH DAMPER **DRAWING EXISTING**

EACH OR EXHAUST AIR ENTERING AIR TEMPERATURE EAT ENTERING DRY BUI B ENERGY EFFICIENCY RATIO EEF EXHAUST FAN EFF EFFICIENCY EG EXHAUST GRILLE ELEC ELECTRIC OR ELECTRICAL

ELEVATION ELEV **EMCS** ENERGY MANAGEMENT AND CONTROL SYSTEM **ENCLOSURE** ENCL EQUIP EQUIPMENT EXTERNAL STATIC PRESSURE ESTIMATE(D)

ENTERING WET BULB **ENTERING WATER** TEMPERATURE EXH EXHAUST **FAHRENHEIT** FRESH AIR (OUTSIDE AIR)

FLOOR CLEAN OUT FCU FAN COIL UNIT FD FIRE DAMPER OR FLOOR DRAIN FIRE DEPARTMENT CONNECTION

FINAL FILTER FULL LOAD AMPS FLR FLOOR FLEX **FLEXIBLE** FOB FLAT ON BOTTOM FOT FLAT ON TOP

FEET PER MINUTE FINS PER INCH FEET PER SECOND FIRE PROTECTION FLOOR SINK FEET/FOOT OR FINNED TUBE FACE VELOCITY

GAS (NATURAL) GAUGE OR GAGE GAL GALLONS GALV GALVANIZED GALLONS PER MINUTE **GYPSUM WALL** BOARD

HIGH OR HEIGHT HOSE BIBB HD HEAD HGBP HOT GAS BYPASS HIGH LIMIT HORSEPOWER OR

HIGH POINT

PLUMBING SYMBOLS

ELBOW UP ELBOW DOWN TEE DOWN

CONCENTRIC REDUCER/INCREASER ECCENTRIC REDUCER/INCREASER

RISE/DROP IN PIPE **VENT THRU ROOF**

FLOOR DRAIN

CLEAN-OUT (WALL) CLEAN-OUT (FLUSH TO FLOOR OR GRADE)

CIRCULATING PUMP VALVE (AS INDICATED OR SPECIFIED)

CHECK VALVE PRESSURE & TEMPERATURE RELIEF VALVE

PRESSURE REDUCING VALVE

(POINTS TOWARDS LOW PRESSURE) GAS VALVE SOLENOID VALVE

HOSE BIBB CIRCUIT SETTER VALVE BOX W/ VALVE (AS SPECIFIED)

THERMOMETER

PLUMBING LEGEND

——— HOT WATER RETURN SANITARY DRAIN ABOVE FLOOR --- SAN --- SANITARY DRAIN BELOW FLOOR ----- STORM DRAIN ABOVE FLOOR ---- ST --- STORM DRAIN BELOW FLOOR

GENERAL SYMBOLS

— SECTION IDENTIFYING NUMBER CROSS-SECTION SYMBOL — SHEET WHERE SECTION IS SHOWN — DETAIL IDENTIFYING NUMBER DETAIL SYMBOL SHEET WHERE DETAIL IS SHOWN POINT OF CONNECTION (POC) SYMBOL

EQUIP. TYPE-NUMBER (SEE SCHEDULES) **EQUIPMENT IDENTIFIER** (OPTIONAL TAG STYLE)

REVISION CLOUD AND REVISION NUMBER

LINEWEIGHT LEGEND

LIGHT SOLID LINES INDICATES EXISTING ITEMS TO REMAIN ----- LIGHT DASHED LINES GENERALLY INDICATE HIDDEN OR UNDERGROUND PIPING OR EQUIPMENT DARK LINE INDICATES NEW PIPING & EQUIPMENT ---- DARK DASHED LINES INDICATE EXISTING PIPING & EQUIPMENT TO BE REMOVED (FLOOR PLANS & SECTIONS)

---- DASHED LINES INDICATE EXISTING PIPING &

& FLOW DIAGRAMS)

LINEWEIGHTS ARE GENERAL GUIDES ONLY. REFER TO DRAWING NOTES AND WORK PHASES (DEMO OR NEW) FOR ADDITIONAL DISTINCTIONS.

EQUIPMENT TO BE REMOVED (DEMOLITION DETAILS

CAD NO. 23010

09/20/23

ACTION BY DATE **DESIGNED** ASD 09-20-23 DRAWN ASD 09-20-23 CHECKED (FIELD) XX XX/XX/XX

XX XX/XX/XX



PROJECT ENGINEER

WASHINGTON

STATE

CHECKED (HDQTS.)

PARKS

AND RECREATION

COMMISSION

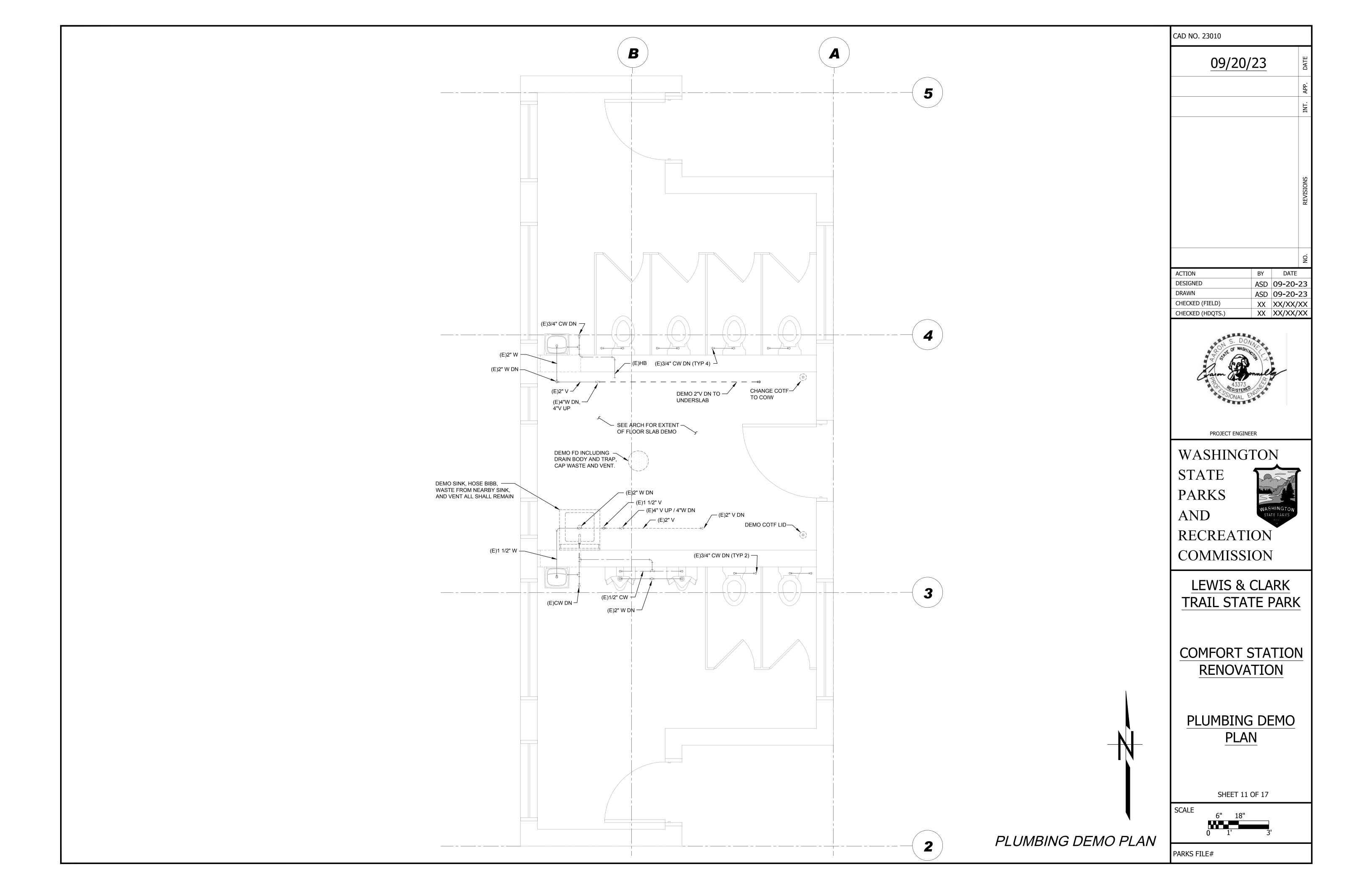
LEWIS & CLARK TRAIL STATE PARK

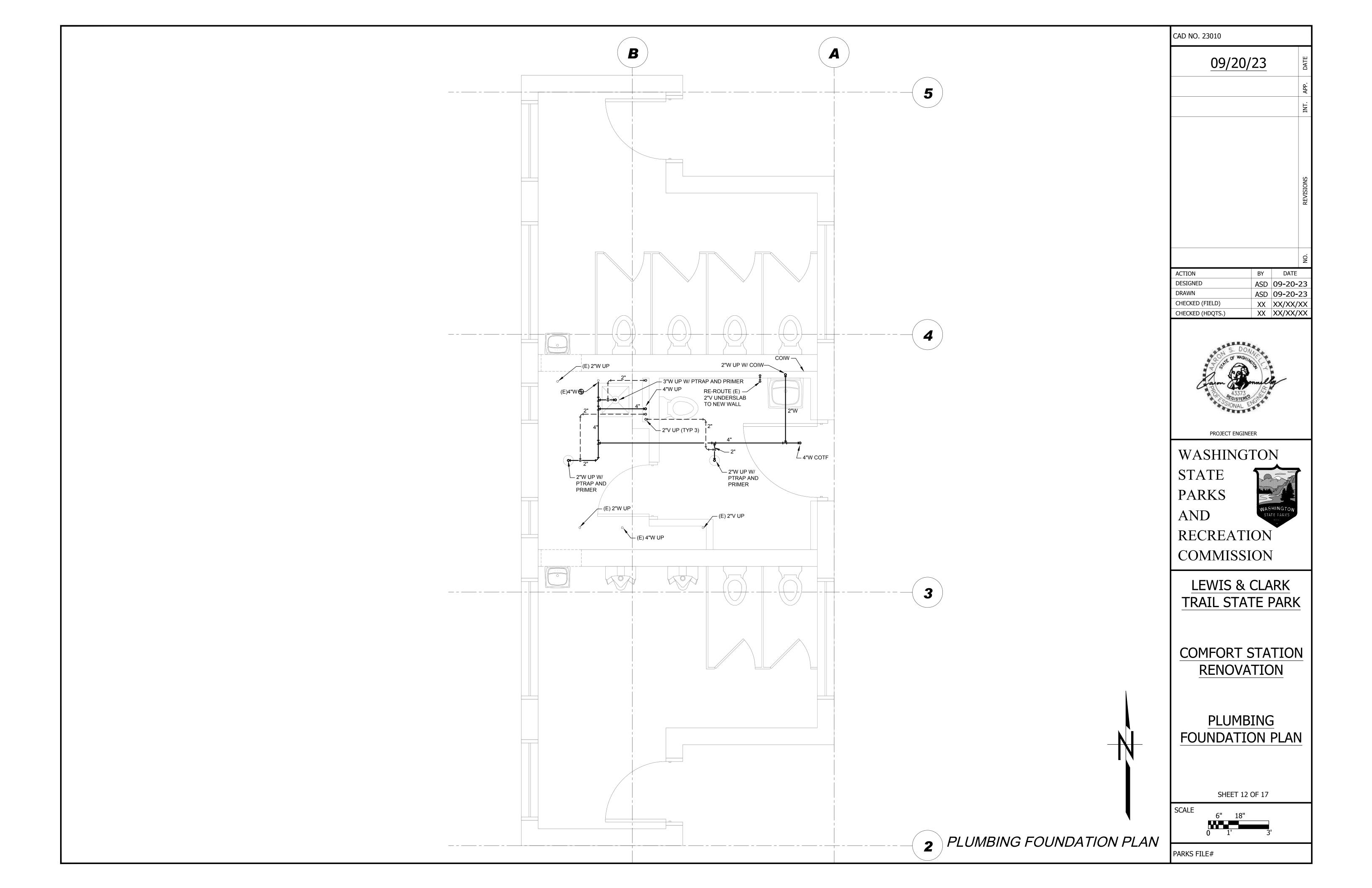
> COMFORT **STATION** RENOVATION

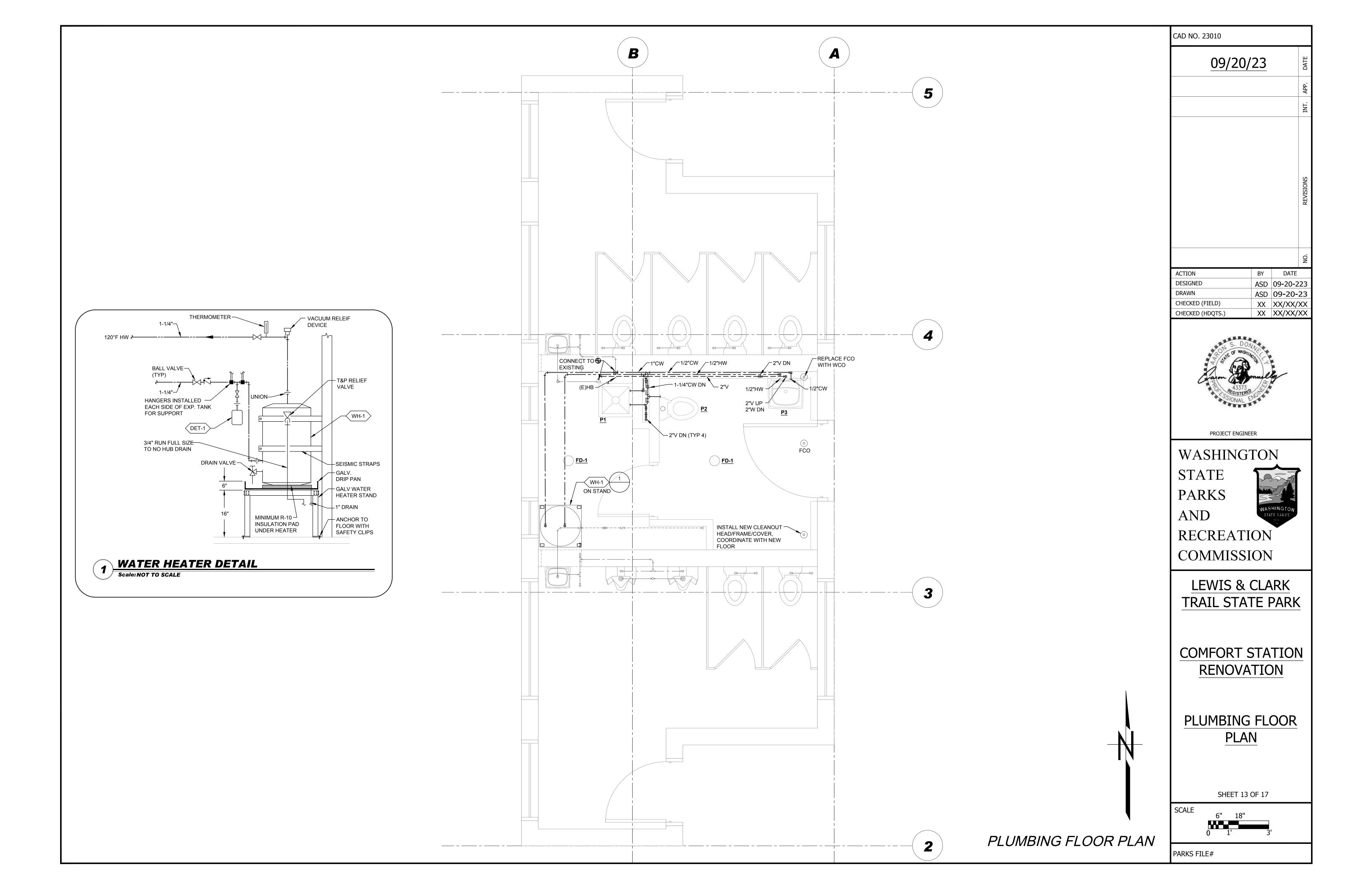
PLUMBING SCHEDULES, NOTES, LEGENDS, **ABBREVIATIONS**

SHEET 10 OF 17

SCALE







GENERAL NOTES

(RE: ALL ELECTRICAL SHEETS)

- ALL ELECTRICAL EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, INTERNATIONAL FIRE CODE, AND ALL OTHER STATE AND LOCAL CODES. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER IN WRITING IF PORTIONS OF THE DESIGN SET OR FIELD CONDITIONS DO NOT MEET REQUIRED CODES.
- PROVIDE FIRESTOPPING FOR ALL FLOOR AND FIREWALL PENETRATIONS FROM ELECTRICAL DEVICE, RACEWAY, AND CABLE PENETRATIONS, SEE ARCHITECTURAL DRAWINGS FOR FIREWALL LOCATIONS.
- ALL WIRING DEVICES SHALL BE OF THE SAME MANUFACTURER AND SHALL MATCH THROUGHOUT. COVER PLATES SHALL BE STAINLESS AND DEVICES SHALL BE WHITE.
- DESIGN OF ELECTRICAL REQUIREMENTS IS BASED ON MECHANICAL EQUIPMENT SPECIFIED. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR IF EQUIPMENT PURCHASED IS DIFFERENT FROM THAT SPECIFIED STILL MEETS DESIGN INTENT, INCLUDING BUT NOT LIMITED TO OVER-CURRENT PROTECTION, LOCAL DISCONNECTING MEANS, AND WIRE
- IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO VERIFY TYPE OF CEILING SYSTEMS AND TO FURNISH APPROVED LIGHTING FIXTURES OF THE TYPE REQUIRED FOR MOUNTING IN SUBJECT CEILING. WHERE FIXTURES ARE RECESSED IN PLASTER OR DRYWALL CEILINGS, THEY SHALL BE COMPLETE WITH NECESSARY MOUNTING HARDWARE AND PLASTER FRAMES.
- ALL RECESSED LIGHTING FIXTURES, SPEAKERS, RECEPTACLES, SWITCHES, ETC. MOUNTED IN THE FIRE RATED CEILINGS OR WALLS SHALL BE ENCLOSED WITH AN APPROVED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING OR WALL BY THIS CONTRACTOR.
- ALL COMMUNICATION CONDUIT SHALL BE 3/4" UNO.
- COLOR CODE WIRES AS FOLLOWS:

	CONDUCTORS	120/208V	277/480V
Ī	PHASE A	BLACK	BROWN
	PHASE B	RED	ORANGE
	PHASE C	BLUE	YELLOW
	NEUTRAL	WHITE	WHITE OR GRA
	GROUND	GREEN	GREEN

- 9. ALL SWITCHES TO BE 20 AMP, 277 VOLT, SPECIFICATION
- ALL WIRE SHALL BE STRANDED TYPE THHN/THWN, MINIMUM SIZE #12 UNLESS OTHERWISE INDICATED.
- NUMBER NEXT TO DEVICE/EQUIPMENT INDICATES PANEL AND POLE POSITION TO WHICH DEVICE/EQUIPMENT SHALL BE CIRCUITED. CIRCUITS SHOWN ARE NEW UNLESS NOTED OTHERWISE (E.G. BY "(E)" OR "EXISTING").CIRCUITS UNDER 100' SHALL BE 3/4"C, 2#12, 1#12G UNLESS NOTED OTHERWISE. CIRCUITS 100' OR LONGER SHALL BE 3/4"C, 2#12, 1#12G UNLESS NOTED OTHERWISE.
- ALL HOME RUN JUNCTION BOXES SHALL BE A MINIMUM OF 4" SQUARE, 2-1/8" DEEP.
- FURNISH AND INSTALL A COMPLETE ELECTRICAL SYSTEM AS DEPICTED FROM THE PLANS AND SPECIFICATIONS. COMPLETE AS NOTED OR IMPLIED, NOT LIMITED TO WHAT
- ALL DRAWINGS ARE SCHEMATIC IN NATURE AND ALL APPURTENANCES NOT INDICATED TO MAKE A WORKING SYSTEM MUST BE INCLUDED IN THE CONTRACTOR'S BID.
- IF THERE APPEAR TO BE ANY ITEMS IN CONFLICT WITH THE DRAWINGS, INCONSISTENCIES WITH DESIGN OR INTENT, OR NEED FOR CLARIFICATION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLARIFY THESE ITEMS PRIOR TO BID IN WRITING WITH THE ENGINEER. IF THE CONTRACTOR FAILS TO CLARIFY ANY QUESTIONS OR INCONSISTENCY, HE ACCEPTS RESPONSIBILITY TO CORRECT AT HIS COST ANY SUCH ITEM TO MEET INTENT AS DEFINED BY THE ENGINEER.
- 16. ALL MOUNTING HEIGHTS OF EQUIPMENT SHALL MEET ADA REQUIREMENTS UNLESS OTHERWISE NOTED.
- 17. CONDUIT RUNS IN WALLS SHALL BE VERTICAL, MINIMUM
- COORDINATE ALL DEVICE/FIXTURE LOCATIONS AND SPECIFIC REQUIREMENTS WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
- OR IMC FOR ANY BEND OVER 45 DEGREES AND ALL 90 DEGREE ELBOWS. UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC.

ALL CONDUIT RUNS USING PVC CONDUIT SHALL USE RGD

- MINIMUM OF 1" CONDUIT THROUGHOUT UNDERGROUND SYSTEM UNLESS OTHERWISE INDICATED.
- 23. ALL CONDUIT PENETRATING SLAB IN EXPOSED LOCATIONS SHALL BE RIGID STEEL.
- EACH TRADE SUBCONTRACTOR IS RESPONSIBLE FOR SUSPENDED SUPPORTS NOT SHOWN ON STRUCTURAL DRAWINGS. ALL SUBCONTRACTORS SHALL COORDINATE WITH EACH OTHER FOR ELEVATION PRIORITY PLACEMENT OF GRADED PIPES, LARGE DUCTWORK, EQUIPMENT, CONDUIT, FIRE PROTECTION, AND LIGHTING.
- OVERCURRENT PROTECTION FOR HVAC EQUIPMENT SHALL BE PER THE MANUFACTURER'S NAMEPLATE, FUSE, OR HACR TYPE BREAKER.
- LABEL ALL RECEPTACLE FACE PLATES WITH PANEL AND CIRCUIT NUMBER.

- (E) EXISTING RELOCATED
- (RE) REPLACED **AMPERES**
- ABOVE COUNTER AMPERE FRAME
- ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE
- AHJ AUTHORITY HAVING JURISDICTION

ABBREVIATIONS

- AMP TRIP AWG AMERICAN WIRE GAUGE
- BUILDING MANAGEMENT SYSTEM
- BLANKET WARMER
- CONDUIT CB CIRCUIT BREAKER
- CC CRASH CART
- CKT CIRCUIT CL CRITICAL LOAD
- CM CEILING MOUNTED CONDUIT ONLY, PROVIDE PULL-LINE
- MECHANICAL DUCT-MOUNTED DEVICE DC DIRECT CURRENT
- DET DETAIL
- EMERGENCY/CRITICAL CARE
- EF EXHAUST FAN
- EMERGENCY LIGHT EWC ELECTRIC WATER COOLER
- EWH ELECTRIC WATER HEATER
- FUSE FACP FIRE ALARM CONTROL PANEL
- FVNR FULL VOLTAGE NON-REVERSING
- G/GND GROUND
- GFI GROUND FAULT INTERRUPTION GFP GROUND FAULT PROTECTION
- HEAT
- HID HIGH INTENSITY DISCHARGE HOA HAND OFF AUTO

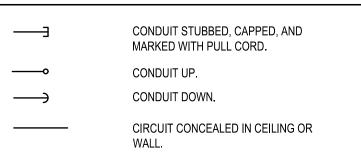
HANDHOLE

- HOUSE PHONE
- HVAC HEATING, VENTILATING, & AIR CONDITIONING IONIZATION
- INTERRUPTING CAPACITY
- ID IN-DUCT
- ISOLATED GROUND J/JB JUNCTION BOX
- KW KILOWATT
- KWH KILOWATT HOUR MAGNETIC CONTACTOR COIL
- MAIN BREAKER
- MCC MOTOR CONTROL CENTER
- MH MANHOLE
- MLO MAIN LUGS ONLY
- MOTOR STARTER
- MW MICROWAVE
- NEUTRAL
- NC NORMALLY CLOSED
- NCL NON CRITICAL LOAD NEC NATIONAL ELECTRICAL CODE
- NIC NOT IN CONTRACT
- NO NORMALLY OPEN NTS NOT TO SCALE
- OFCI OWNER FURNISHED CONTRACTOR INSTALLED
- OL OVERLOAD
- os OCCUPANCY SENSOR
- PHOTO
- PC PHOTOCELL
- PVC POLYVINYL CHLORIDE RCPT RECEPTACLE
- REF REFRIGERATOR
- SPST SINGLE POLE SINGLE THROW
- TIME CLOCK
- TDR TIME DELAY RELAY
- TJB TERMINAL JUNCTION BOX
- TSP TWISTED SHIELDED PAIR
- TTB TELEPHONE TERMINAL BOARD TVSS TRANSIENT VOLTAGE SURGE SUPPRESSER
- TYP TYPICAL
- UNIT HEATER
- UNO UNLESS NOTED OTHERWISE
- VOLT VA VOLT AMPERE
- PROVIDE PROTECTIVE WIRE GUARD
- WEATHER PROOF/NEMA 3R
- XFMR TRANSFORMER

POWER

- DUPLEX NEMA 5-20A OUTLET. +18" AFF UNO.
- DUPLEX NEMA 5-20A OUTLET. MOUNT ABOVE COUNTER
- DUPLEX 20A OUTLET. +18" AFF UNO WITH
- GROUND FAULT INTERRUPTION PROTECTION. DUPLEX 20A OUTLET. MOUNTED ABOVE COUNTER UNO
- WITH GROUND FAULT INTERRUPTION PROTECTION DUPLEX NEMA 5-20A RECEPTACLE WITH INTEGRAL
- USB CHARGING. +18" AFF UNO. FOURPLEX 20A OUTLET. +18" AFF UNO.
- FOURPLEX 20A OUTLET. MOUNTED ABOVE COUNTER UNO.
- SPECIAL PURPOSE OUTLET. VERIFY SIZE AND TYPE WITH EQUIPMENT SUPPLIER.
- CONNECTION POINT TO EQUIPMENT SPECIFIED, FURNISHED, AND INSTALLED UNDER OTHER SECTIONS. ELECTRICAL CONTRACTOR TO SUPPLY RACEWAY AND CONDUCTORS AND MAKE FINAL CONNECTION TO EQUIPMENT UNDER THIS SECTION, UNO.
- MOTOR CONNECTION, RE: MECHANICAL EQUIPMENT SCHEDULE
- MOTOR STARTER/CONTACTOR.
- _____ X NON-FUSED DISCONNECT SWITCH. SIZE AS
- INDICATED, NEMA 1 UNO, 3 POLE UNO.
- FLX FUSED DISCONNECT SWITCH. SIZE AS INDICATED, NEMA 1 UNO, 3 POLE UNO.

CIRCUITING SYMBOLS



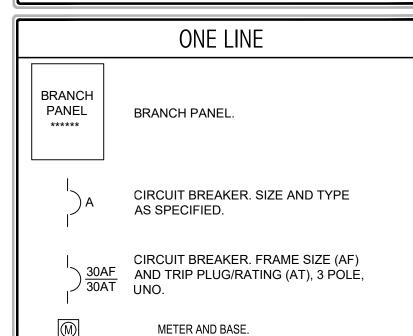
CIRCUIT CONCEALED IN FLOOR OR UNDERGROUND. HOMERUN. PANEL AND CIRCUIT AS

CONDUCTOR SIZE

RACEWAY SIZE — CONDUCTOR SIZE — PANEL & CIRCUIT CONDUCTOR — −2#12: P**-**1 QUANTITY 1#12G

INDICATED.

CONTRACTOR SHALL ROUTE CIRCUIT HOMERUN FROM DEVICE NEAREST THE PANEL.



MISCELLANEOUS JUNCTION BOX.

- JUNCTION BOX, WALL MOUNTED.
- THERMOSTAT. +56" AFF UNO. UNIT CONTROLLED INDICATED. SURFACE MOUNTED PANELBOARD/
- ENCLOSURE. SEE SCHEDULE FOR TYPE. FLUSH MOUNTED PANELBOARD/ENCLOSURE. SEE SCHEDULE FOR TYPE. MECHANICAL EQUIPMENT SYMBOL (RE:

MECHANICAL DRAWINGS FOR EXACT

GROUND.

AVAILABLE FAULT CURRENT.

LOCATION OF UNITS). INDICATES FIXTURE TYPE. REFER TO LUMINAIRE SCHEDULE.

LIGHTING

DOUBLE FACE EXIT SIGN. WALL MOUNTED.

(SEE LUMINAIRE SCHEDULE FOR EXACT REQUIREMENTS)

SINGLE FACE EXIT SIGN. CEILING MOUNTED. DOUBLE FACE EXIT SIGN. CEILING MOUNTED. SINGLE FACE EXIT SIGN. WALL MOUNTED.

SINGLE FACE COMBO EXIT SIGN/

EMERGENCY LUMINAIRE. WALL MOUNTED. 2'x2' RECESSED LED LIGHT FIXTURE. 2'x4' RECESSED LED LIGHT FIXTURE.

PENDANT LIGHT FIXTURE. EMERGENCY PENDANT LIGHT FIXTURE.

RECESSED LIGHT FIXTURE. EMERGENCY EGRESS LIGHT. WALL MOUNTED.

SWITCHES

EMERGENCY EGRESS LIGHT. CEILING MOUNTED.

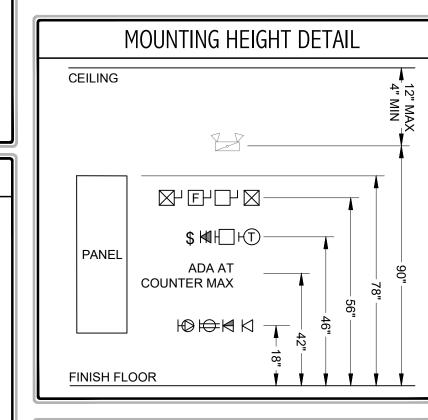
\$ SWITCH. TYPE AS INDICATED. +46"AFF, UNO. DOUBLE POLE

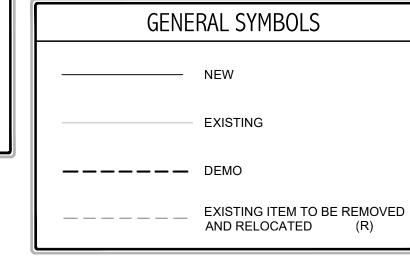
- 3-WAY 4-WAY DIMMER. LUTRON DVSTV
- CEILING FAN CONTROLLER HORSE POWER RATED KEYED LOW VOLTAGE
- MOMENTARY CONTACT MANUAL MOTOR STARTER OCCUPANCY SENSOR PILOT LIGHT 15 MINUTE TIMER
- VOLUME CONTROL VACANCY SENSOR SUPERSCRIPT INDICATES LIGHTS TO BE SWITCHED TOGETHER

THERMAL OVERLOAD

MULTI-LEVEL SWITCHING, TO MEET LIGHT REDUCTION LEVELS PER ENERGY CODE AS SHOWN. PROVIDE ADDITIONAL OR STEP-DIMMING BALLASTS WHERE REQUIRED.

INFRARED OCCUPANCY SENSOR SWITCH - CEILING MOUNTED.

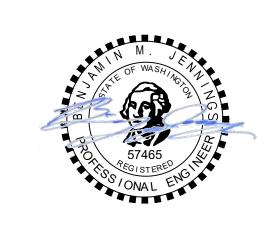




CAD NO. 23010

09/20/23

ACTION BY DATE DESIGNED BJ 08-18-23 DRAWN BC | 08-18-23 CHECKED (FIELD) XX XX/XX/XX CHECKED (HDQTS.) XX XX/XX/XX



PROJECT ENGINEER

WASHINGTON

STATE **PARKS** WASHINGTON **AND**

RECREATION

COMMISSION

LEWIS & CLARK

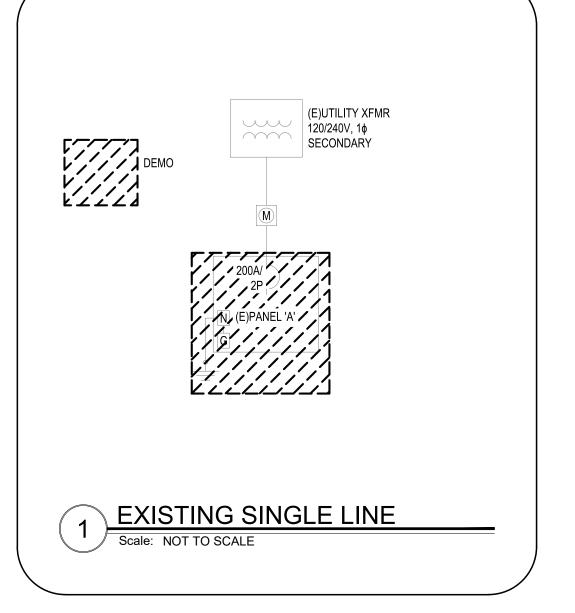
TRAIL STATE PARK

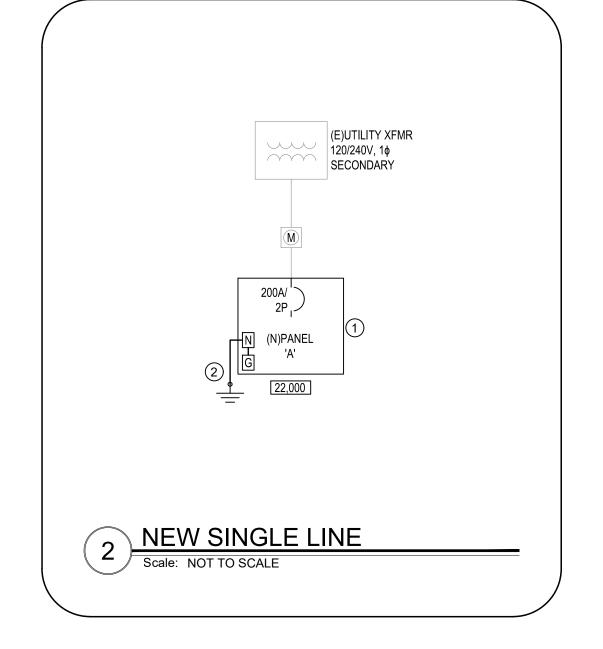
COMFORT STATION RENOVATION

ELECTRICAL LEGENDS & ABBREVIATIONS

SHEET 14 OF 17

SCALE





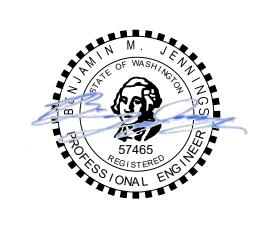
									MS	SI EN	GINE	ERS						
PANE	EL: A ((NEW)																
OLTA	GE: 240/1	20V		PHASE: 1	WIRE: 3			MINII	мим	AIC RA	TING: SE	E SIN	GLE	LINE		200A MAIN BREA	A MAIN BREAKER	
MPER	E RATING	3:	200A		ENCLOSU	JRE RATI	NG:	NEM	A 1							SERVICE ENTRANCE RATED		
CKT	LOAD						LOAD	AM	PS/	PH	ASE	AMF	PS/	LOAD			LOAD	CK
NO	(VA)		LOA	SERVED		NOTE	TYPE	POL	ES	Α	В	POL	ES	TYPE	NOTE	LOAD SERVED	(VA)	NC
1	1375	WALL HEA	TERS EWI	1-1,2,3		N	MC	20	2	3775		40	2	MC	E	KITCHEN SHELTER	2400	2
3	1375	WALL HEAT	TERS EWI	1-1,2,3		N	MC	*	*		3775	*	*	MC	E	KITCHEN SHELTER	2400	4
5	180	REC-RESTR	ROOM			E	R	15	1	680		20	1	MC	E	WEST SHELTER	500	6
7	500	LIGHTS				Е	L	15	1		1500	30	2	MC	Е	INTERP. SHELTER	1000	8
9	180	REC-RESTR	ROOM			E	R	20	1	1180		*	*	MC	E	INTERP. SHELTER	1000	10
11	750	MERCURY L	LIGHTS			E	L	15	1		988	20	1	MC	E	RESTROOM LIGHTS	238	12
13	500	EXISTING				E	MC	15	1	1000		20	1	MC	E	AREA LIGHTS	500	14
15		SPARE				S		20	1		750	20	2	MC	N	WATER HEATER WH-1	750	16
17		EXISTING				E	MC	20	1	1250		*	*	MC	N	WATER HEATER WH-1	750	18
19	1920	SEWAGE PI	UMP PANE	L(1HP)		E	MT	30	2		6720	50	2	MC	N	EV CHARGER	4800	20
21	1920	SEWAGE PI	UMP PANE	L(1HP)		E	MT	*	*	6720		*	*	MC	N	EV CHARGER	4800	22
23	1250	WALL HEAT	TERS EWI	1-5,6		N	MC	20	2		6050	50	2	MC	N	EV CHARGER	4800	24
25	1250	WALL HEA	TERS EW	1 -5,6		N	MC	*	*	6050		*	*	MC	N	EV CHARGER	4800	26
27	625	WALL HEAT	TER EWH-	4		N	MC	20	2		973	20	1	MT	N	UTILITY RM EXHAUST FAN EF-1	348	28
29	625	WALL HEAT	TER EWH-	4		N	MC	*	*	1575		20	1	MC	N,G	HAND DRYER	950	30
31		SPARE						20	1		0	20	1			SPARE		32
33		SPARE						20	1	0		20	1			SPARE		34
35		SPARE						20	1		0	20	1			SPARE		36
37		SPARE						20	1	0		20	1			SPARE		38
39		SPACE									0					SPACE		40
41		SPACE								0						SPACE		42
C	CONNECT	ED LOADS:	Amps	VA	LOAD TYPES:							NOTE						
		PHASE A:	185	22230		R = REC	EPTACL	ES	1							N CIRCUIT; RE-CONNECT AS SHOWN.		
		PHASE B:	173	20756		MC = MIS	SC		1					IRCUIT				
						MT = MO	TOR							IT SPAF DE GFC				
		TOTAL:		42986		K = KITC	HEN					G - Pi	KUVI	DE GFC	I DKE	ANEK		
						LARGES	т мото	R=	1824	4.0								
						# OF KIT	CHEN =	1										
LOADING BY TYPE DEMAND FACTOR		ACTOR	DI	EMAND		NEC	CODE											
LOADING BY TYPE DEMAND FACTOR L 125%			563 VA		210-			1										
R 10kVA @ 100%, REM @ 50%			60 VA		220-			1										
MC 100%						220-			1									
					188 VA					1								
	MT		100	70 T LANGE	O 1 X Z J 70		644 VA		220-			1						
	K					0 VA			220-56									

KEY NOTES

- PANELBOARD TO BE REPLACED IN PLACE WITH NEW LOCKABLE
 PANELBOARD PER PANEL SCHEDULE ON THIS SHEET. CONNECT TO
 EXISTING-TO-REMAIN SERVICE CONDUCTORS AND BRANCH
 CIRCUITS
- 2. EXISTING BUILDING GROUND TO BE REMOVED/RELOCATED OUT OF WALKING PATH. INTERCEPT AND EXTEND OUT OF WALKWAY. PROVIDE/ESTABLISH NEW BUILDING GROUND IF REQUIRED.

CAD NO. 23010			
09/20/	23		DATE
			INT. APP.
			INT.
			REVISIONS
			NO.
ACTION	BY	DATE	

ACTION	BY	DATE
DESIGNED	BJ	08-18-23
DRAWN	ВС	08-18-23
CHECKED (FIELD)	XX	XX/XX/XX
CHECKED (HDQTS.)	XX	XX/XX/XX



PROJECT ENGINEER

WASHINGTON STATE PARKS AND RECREATION

COMMISSION

LEWIS & CLARK

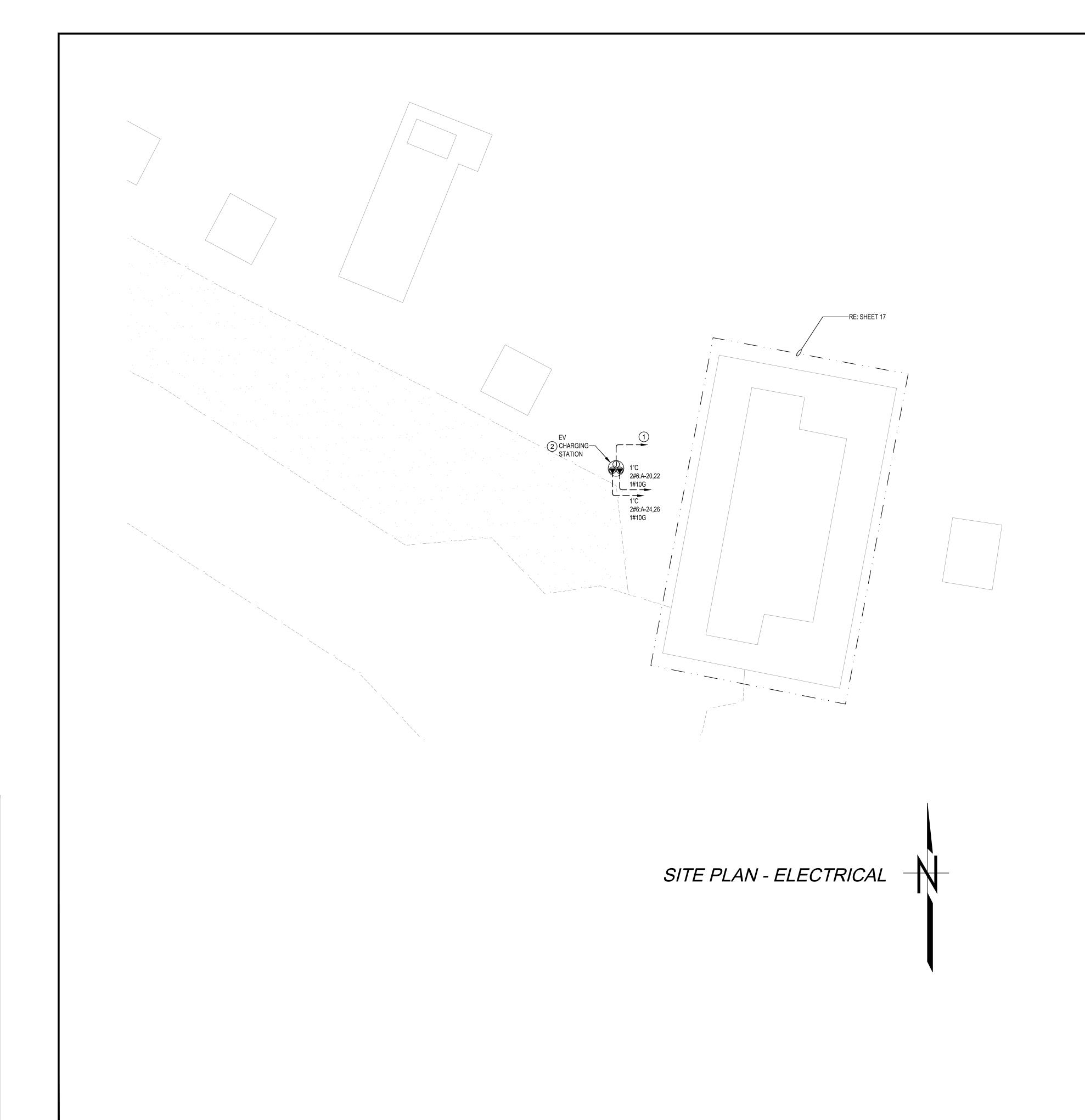
TRAIL STATE PARK

COMFORT STATION RENOVATION

ELECTRICAL
SCHEDULES AND
SINGLE LINE

SHEET 15 OF 17

SCALE



GENERAL NOTES

COORDINATE UNDERGROUND CONDUIT ROUTING WITH FIELD CONDITIONS AND WORK OF OTHER TRADES.

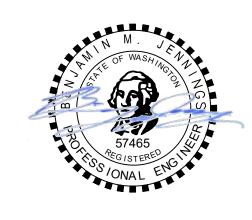
KEY NOTES

- PROVIDE 1"C STUBBED INTO NEW UTILITY ROOM FOR ETHERNET CONNECTION.
- 2. COORDINATE EXACT LOCATION WITH ARCHITECT.

CAD NO. 23010

09/20/23

ACTION	BY	DATE
DESIGNED	BJ	08-18-23
DRAWN	ВС	08-18-23
CHECKED (FIELD)	XX	XX/XX/XX
CHECKED (HDQTS.)	XX	XX/XX/XX



PROJECT ENGINEER

WASHINGTON

STATE PARKS AND

RECREATION COMMISSION

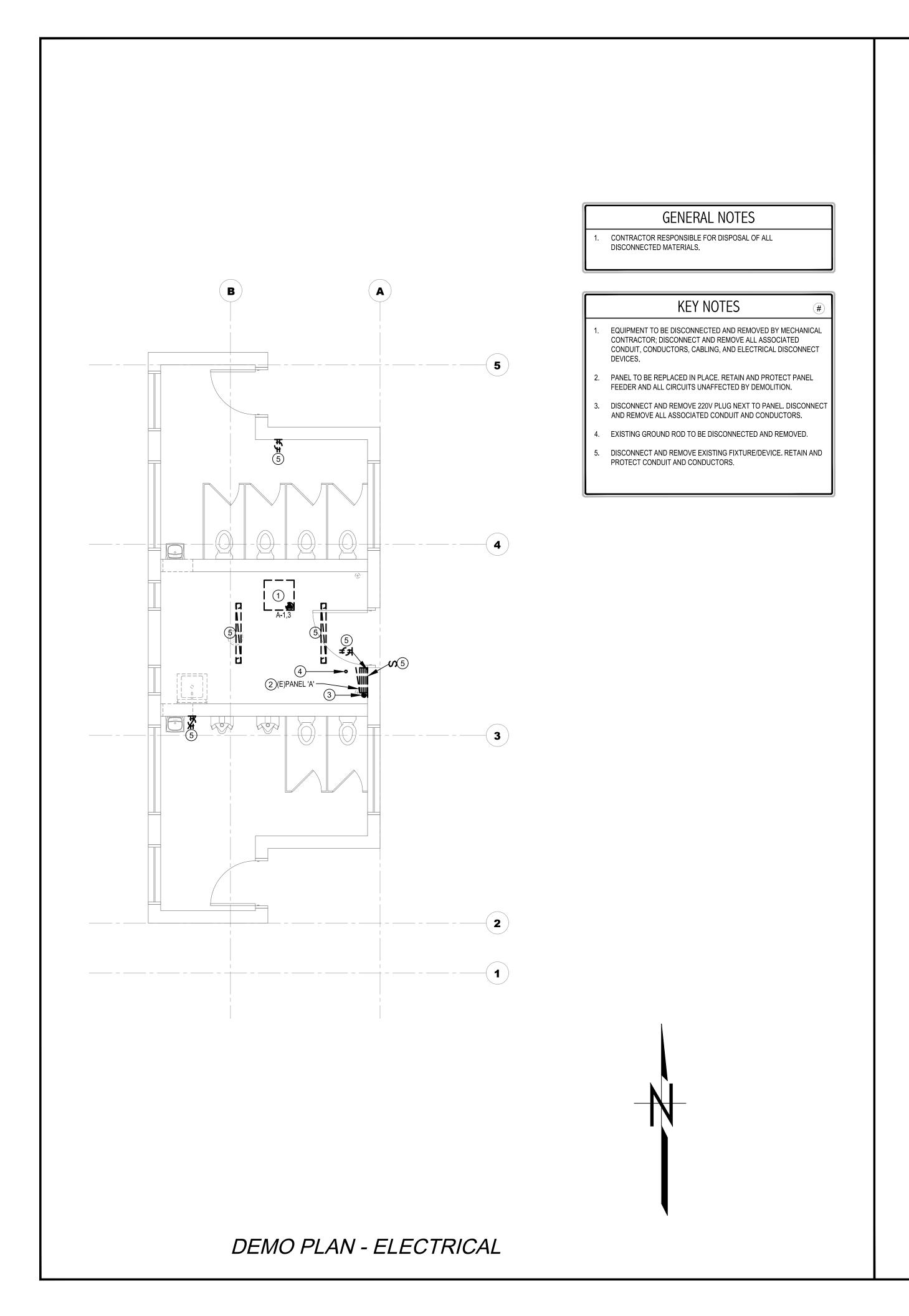
LEWIS & CLARK TRAIL STATE PARK

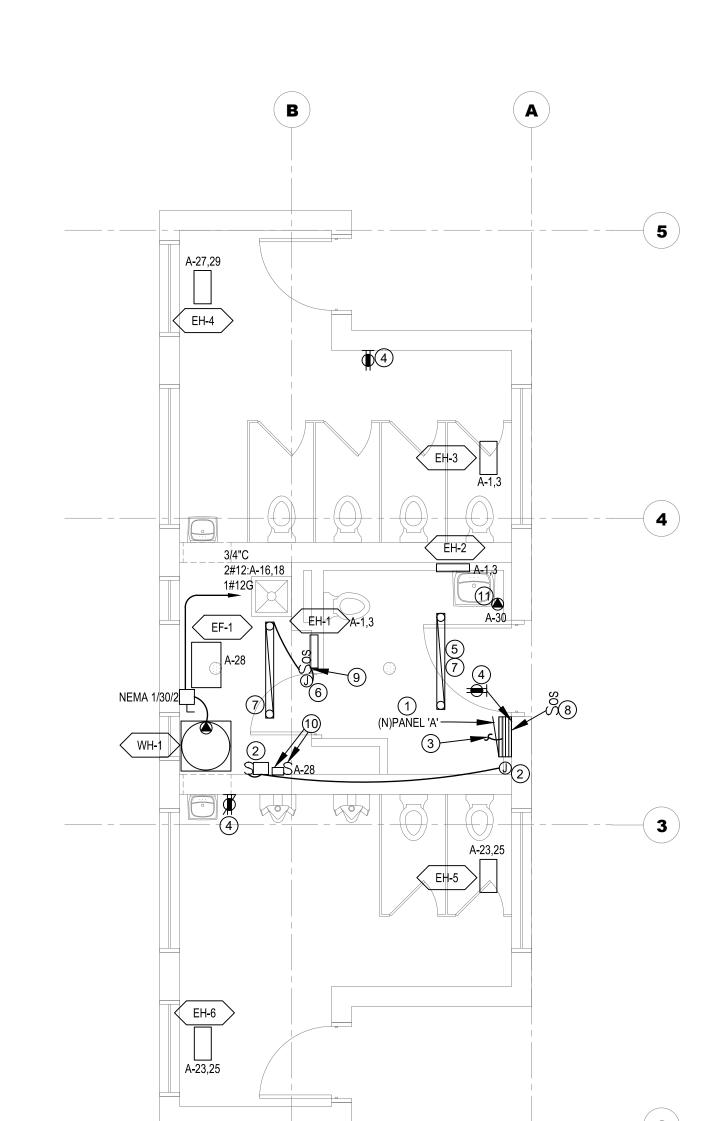
COMFORT STATION RENOVATION

> **ELECTRICAL** SITE PLAN

> > SHEET 16 OF 17







GENERAL NOTES

WALL HEATERS ARE PROVIDED WITH FACTORY DISCONNECTS PER MECHANICAL DRAWINGS.

KEY NOTES

PROVIDE NEW UFER GROUND IN NEW CONCRETE SLAB.

REPLACE RECEPTACLE WITH GFCI RECEPTACLE. RE-CONNECT TO EXISTING CONDUIT/CONDUCTORS.

REPLACE LIGHT FIXTURE IN PLACE; CONNECT TO

INTERCEPT AND EXTEND CIRCUIT TO NEW FIXTURE SHOWN.

PROVIDE NEW LUMINAIRE: LITHONIA

REPLACE SWITCH IN PLACE WITH NEW OCCUPANCY SENSOR

COORDINATE SWITCH MOUNTING HEIGHT/LOCATION WITH THAT OF

11. COORDINATE EXACT HAND DRYER LOCATION WITH ARCHITECTURAL DRAWINGS.

PANEL REPLACED IN PLACE; SEE PAGE 15 OF 17 FOR NEW PANEL REQUIREMENTS.

LIGHTING TIME SWITCH AND ON/TIMER SWITCH TO BE RELOCATED TO LOCATION INDICATED. EXTEND CONDUIT/CONDUCTORS AND RECONNECT TO DOWNSTREAM LIGHT FIXTURES AS WELL PANEL BRANCH CIRCUIT BREAKER.

RE-CONNECT TO NEW PANELBOARD AND NEARBY STRUCTURES PER PREVIOUS GROUNDING CONFIGURATION.

EXISTING-TO-REMAIN CONDUIT/CONDUCTORS.

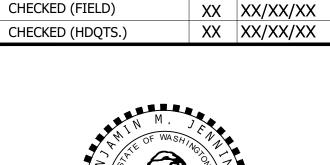
CSVT-L48-4000LM-MVOLT-40K-80CRI OR EQUIVALENT.

NEW WALL HEATER.

10. RELOCATED FAN TIMER/SWITCH PER MECHANICAL DRAWINGS. CONNECT TO 'EF-1' VIA 3/4"C, 2#12 AWG CU, 1#12 CU GROUND.

BY DATE ACTION DESIGNED BJ 08-18-23

CAD NO. 23010



BC 08-18-23

PROJECT ENGINEER

WASHINGTON STATE

PARKS AND

DRAWN

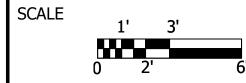
RECREATION COMMISSION

LEWIS & CLARK TRAIL STATE PARK

COMFORT STATION RENOVATION

ELECTRICAL DEMO PLAN AND FLOOR PLAN

SHEET 17 OF 17





PRE-BID MEETING

STATE PARK	Lewis and Clark Trail State Park	DATE:	12/4/2024
PROJECT NAME	Comfort Station Renovation	TIME:	2:00pm

NAME	TITLE	FIRM NAME AND ADDRESS	PHONE, FAX, E-MAIL
		Wesslen Construction	(509)998-9934
Gabe Yost	Field Engineer	Spokane Valley	
Aaron Mangum		Mangum Construction	(509)254-1034
	PM	1451 Bridge Street	
		Clarkston, WA	aaron@mangum-construction.com
		JK Greystone	(208)997-1645
Joe Hunt	PM	1026 Hall Rd	
		Viola, ID 83872	
Aaron Grimm		ESF Development (DBA ESF Solutions)	(509)730-1537
	GC		aaron@esfsolutionsllc.com
Trent Depping	Estimator	WW Electric	(509)525-8672
		1225 W Poplar	
		Walla Walla, WA	trent@wwelectric.com
		Nelson Construction	(509)301-6045
Matt Triebwasser	PM		matt@nelson-corp.com
Jordan Mattila	CEO	47 North Custom Homes	(509)845-9242
		1360 N. Louisiana St #A-733	47northhomes@gmail.com
		Kennewick, WA 99336	

		North Point Electrical Contracting	(509)572-2120
Herb Clay	Foreman	530 W Deschutes Ave.	
		Kennewick, WA 99336	herb@northpointelectrical.com
Robert Stemple		Mill Creek Mechanical	(509)520-4311
	HVAC Specialist		wwmillcreekmechanical@gmail.com
		G2 Commercial Construction	(509)783-8900
Mike Sisemore	Superintendent	7117 W. Hood Place	
		Kennewick, WA 99336	mike@g2construction.net
	1		