



































**FINISH SCHEDULE**

ROOM #	ROOM NAME	FLOORING			BASE		NORTH WALL			EAST WALL			SOUTH WALL			WEST WALL			CEILING			WAINSCOT			ROOM #
		MATL	FIN	CLR	FIN	CLR	MATL	FIN	CLR	MATL	FIN	CLR	MATL	FIN	CLR	MATL	FIN	CLR	MATL	FIN	HEIGHT	MATL	HEIGHT	WALL	
4302	ADA DRESSING	(E)CONC	LVT	LVT1	RB	RB1	(E)GWB	PT	PNT-1	(E)GWB	PT	PNT-1	(E)GWB	PT	PNT-1	GWB	PT	PNT-1	ACT1	FF	9'-6"				4302
4306	HALL	(E)CONC	LVT	LVT1	RB	RB1	-	-	-	(E)GWB	PT	PNT-1	(E)GWB	PT	PNT-1	GWB	PT	PNT-1	ACT1	FF	9'-6"				4306
4308	EXAM	(E)CONC	LVT	LVT1	RB	RB1	(E)GWB	PT	PNT-1	GWB	PT	PNT-2	(E)GWB	PT	PNT-1	(E)GWB	PT	PNT-1	ACT1	FF	9'-6"	SWC1	40"	N,W,S	4308
4311	EXAM	(E)CONC	LVT	LVT1	RB	RB1	(E)GWB	PT	PNT-2	GWB	PT	PNT-1	(E)GWB	PT	PNT-1	(E)GWB	PT	PNT-1	ACT1	FF	9'-6"	SWC1	40"	W,E,S	4311
4312	HALL	(E)CONC	LVT	LVT1	RB	RB1	(E)GWB	PT	PNT-1	(E)GWB	PT	PNT-1	(E)GWB	PT	PNT-1	-	-	-	ACT1	FF	9'-6"				4312
4313	DRESSING	(E)CONC	LVT	LVT1	RB	RB1	(E)GWB	PT	PNT-1	(E)GWB	PT	PNT-1	(E)GWB	PT	PNT-1	(E)GWB	PT	PNT-1	GWB	PT	9'-6"				4313
4314	MA STATION	(E)CONC	LVT	LVT1	RB	RB1	(E)GWB	PT	PNT-1	GWB	PT	PNT-3	(E)GWB	PT	PNT-1	(E)GWB	PT	PNT-1	ACT1	FF	9'-6"				4314
4315	EXAM	(E)CONC	LVT	LVT1	RB	RB1	(E)GWB	PT	PNT-2	(E)GWB	PT	PNT-1	(E)GWB	PT	PNT-1	GWB	PT	PNT-1	ACT1	FF	9'-6"	SWC1	40"	W,E,S	4315

**GENERAL NOTES**

- AN ASTERISK (\*) IN THE FINISH SCHEDULE REFERENCES CODED NOTES IN THE REMARKS COLUMN.
- ALL FLOORING / COLOR TRANSITIONS, WHERE REQUIRED, SHALL BE CENTERED UNDER DOOR.
- PAINT ALL INTERIOR MECHANICAL LOUVERS, WHERE EXPOSED, TO MATCH ADJACENT SURFACE, UNLESS NOTED OTHERWISE.
- SEE REFLECTED CEILING PLAN FOR CEILING FINISH INFORMATION.
- PAINT ALL DOOR AND RELITE FRAMES, NEW AND EXISTING, UNLESS NOTED OTHERWISE.
- SEE INTERIOR ELEVATIONS FOR FINISHES ON WALLS WITH MULTIPLE FINISHES.
- SEE INTERIOR ELEVATIONS, REFLECTED CEILING PLAN, AND INTERIOR DESIGN MATERIALS PLAN FOR EXTENT AND LOCATION OF ACCENT PAINT COLORS.
- FLOORING INSTALLATION TO COORDINATE WITH CASEWORK INSTALLATION.

**CODED NOTES**

- ① NEW FLOORING
- ② NEW CEILING

**ABBREVIATIONS**

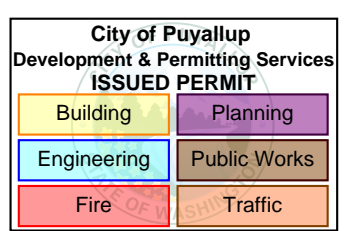
ADJ	ADJUSTABLE
AC	ACOUSTIC TREATMENT
ACC	ACCORDION DOOR
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES
AV	AUDIO/VISUAL
AWC	ACOUSTICAL WALLCOVERING
AWP	ACOUSTICAL WALL PANEL
BD	BOARD
BRK	BRICK
BROOM	LIGHT BROOM FINISH (CONCRETE)
CAB	CABINET
CG	CORNER GUARD
CLR	COLOR
CK	CORK
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CPT	CARPET
CT	CERAMIC TILE
CS	CONCRETE, SEALED
CSV	COVERED SHEET VINYL
DF	DRINKING FOUNTAIN
(E)	EXISTING
EP	EPOXY PAINT
EX-S	EXPOSED STRUCTURE
FF	FACTORY FINISH
FIN	FINISH
FLR	FLOOR
FRP	FIBERGLASS REINFORCED PLASTIC
GMU	GLAZED MASONRY UNIT
GYP	GYP SUM WALL BOARD
GWB	GYP SUM WALLBOARD
MATL	MATERIAL
MDF	MEDIUM DENSITY FIBERBOARD
MTL	METAL
MTL-S	METAL SIDING
MASN	MASONRY
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OP	OPERABLE PARTITION
PLAM	PLASTIC LAMINATE
PL	PLASTIC LAMINATE
PLA	PLASTER
PNL	PANEL
PR(#)	PROJECTION SCREEN (LENGTH)
PT	PANT
PTD	PAPER TOWEL DISPENSER
PWD	PLYWOOD
RB	RUBBER BASE
RF	RUBBER FLOORING
RC	ROLL-UP CURTAIN
SD	LIQUID SOAP DISPENSER
SEM	SURFACE-MOUNTED ENTRY MAT
SF	STOREFRONT
SV	SHEET VINYL
TB(#)	TACK BOARD (LENGTH)
TBS	TO BE SELECTED
TG	TONGUE & GROOVE CEDAR, STAINED
TP	TOILET PARTITION
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UPT	UNGLAZED PORCELAIN TILE
V	VOLUME
VCT	VINYL COMPOSITION TILE
VP	VENEER PLASTER
VWC	VINYL WALLCOVERING
WB(#)	WHITE BOARD (LENGTH)
WD	WOOD
WOM	WALK OFF MAT
WRGW	WATER-RESISTANT GYP BD

**MATERIALS LIST**

- (ACT)** ACOUSTICAL CEILING TILE - MATCH EXISTING, 24"x24"x3/4"
- (CG1)** CORNER GUARD: CONSTRUCTION SPECIALTIES, 40" ABOVE FINISHED FLOOR (A.F.F.) X 2" CORNER GUARD, 90 DEGREES, TO MATCH WALL CONDITION, COLOR ANTIQUE WHITE.
- (PNT-1)** PAINT - WALL FIELD COLOR: MPI STANDARDS LOW VOC LATEX EGGSHELL FINISH: RHODDA, #0012 "BUNNY CAKE" - COLOR USED IN ALL NEW AND REFRESHED AREAS
- (PNT-2)** DOOR AND RELITE FRAMES: ALKYD ENAMEL, EGGSHELL PAINT - ACCENT COLOR: MPI STANDARDS LOW VOC LATEX EGGSHELL FINISH: RHODDA, "SHARK FIN" - DOORWAY WALL IN EXAM ROOMS
- (PNT-3)** PAINT - ACCENT COLOR: MPI STANDARDS LOW VOC LATEX EGGSHELL FINISH: RHODDA, "NORTH BEACH BLUE" - EAST WALL IN MA STATION #4314
- (SWC1)** SYNTHETIC WALL COVERING #1: CONSTRUCTION SPECIALTIES TO 40" ABOVE FINISHED FLOOR (A.F.F.) WITH MATCHING TRIM (TOP CAP, VERTICAL DIVIDER BARS AND INSIDE CORNERS). COLOR - ANTIQUE WHITE
- (PL1)** PLASTIC LAMINATE #1 - BUILT-IN CASEWORK FACES (CABINETS/DRAWERS) LAMINATE: FORMICA "PENCILWOOD" #7747-58 - USED IN ALL EXAM ROOMS AND DRESSING ROOMS
- (PL1)** PLASTIC LAMINATE #2 - BUILT-IN CASEWORK FACES (CABINETS/DRAWERS) LAMINATE: FORMICA "PECAN WOODLINE" #5883-58 - USED IN MA STATION
- (SS1)** SOLID SURFACE #1: CORIAN: "SAVANNAH" - USED IN EXAM ROOMS
- (SS2)** SOLID SURFACE #2: CORIAN: "BISQUE" - USED IN MA STATION TRANSACTION COUNTER
- (SS2)** SOLID SURFACE #3: CORIAN: "BISQUE" - ALL INTEGRAL SINKS
- (LVT1)** LUXURY VINYL TILE, TYPE 1-C, STANDARD #1, CLASS I: TEKNOFLOOR, RARE PLANK, HPD #89007RP "SISAL" FLAT LAY WITH 4.5" RUBBER BASEBOARD. TRANSITION STRIP AT EXISTING FLOORING TO NEW FLOORING - MATCH EXISTING.
- (RB1)** 4.5 RUBBER BASE: ROPPE 700 SERIES - COLOR #193 "BLACK BROWN" TO SELECT FROM - USED IN ALL AREAS WITH FLAT LAY FLOORING
- (TG)** 3/8" THICK CLEAR TEMPERED GLASS WITH FLAT POLISHED EDGES - AT MA STATION
- DOORS** MATCH TO EXISTING

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MARK	DATE	DESCRIPTION
	7/1/2022	PERMIT SUBMITTAL #1

PROJECT NO. 31236  
 DRAWN BY: K. LANGLOIS  
 DATE: 1 JULY 2022  
 COPYRIGHT TO: InSight Healthcare Architecture

SHEET TITLE:  
**FINISH SCHEDULE**

SHEET #:  
**A7.1**

**REVISIONS TO PERMIT: PRCTI20221166**











GENERAL LEGEND	
SYMBOL	DESCRIPTION
	DETAIL SYMBOL: A = IDENTIFYING NUMBER B = SHEET WHERE DETAIL IS SHOWN
	DETAIL SYMBOL: A = IDENTIFYING NUMBER B = SHEET WHERE DETAIL IS TAKEN C = SHEET WHERE DETAIL IS SHOWN
	SECTION SYMBOL: A = IDENTIFYING LETTER B = SHEET WHERE SECTION IS SHOWN
	SECTION SYMBOL: A = IDENTIFYING LETTER B = SHEET WHERE SECTION IS TAKEN C = SHEET WHERE SECTION IS SHOWN
	SECTION CUT LINE INDICATOR
	KEYED REFERENCE NOTE OR SHEET NOTE
	POINT OF CONNECTION (POC) SYMBOL
	PLUMBING FIXTURE REFERENCE (REFER TO SCHEDULE)
	EQUIPMENT IDENTIFICATION (REFER TO SCHEDULES)
	MEDICAL GAS OUTLET IDENTIFICATION (REFER TO SCHEDULE)
	MEDICAL GAS ZONE VALVE STATION MOUNTED IN WALL
	MEDICAL GAS ALARM PANEL MOUNTED IN WALL
	MEDICAL GAS OUTLET
	REVISION CLOUD AND REVISION NUMBER
	BINARY (YES/NO) SENSING SWITCH (PIPE OR DUCT MOUNTED)
	BINARY (YES/NO) SENSING SWITCH (SURFACE MOUNTED)
	ANALOG SENSING DEVICE (PIPE OR DUCT MOUNTED)
	ANALOG SENSING DEVICE (SURFACE MOUNTED)
	ANALOG SENSING DEVICE (SURFACE MOUNTED) (APPROPRIATE FOR MEASURED FLUID) SUBSCRIPT LETTER (X) INDICATES:
A	ALARM PRESSURE SENSOR
D	DIFFERENTIAL PRESSURE
F	FLOW RATE
H	HUMIDITY
L	LOW LIMIT
P	PRESSURE (STATIC)
T	TEMPERATURE
V	VELOCITY & VOLUME FLOW RATE

ABBREVIATIONS			
ABBR	DESCRIPTION	ABBR	DESCRIPTION
ABV	ABOVE	L	LENGTH
AHU	ACCESS DOOR	LAT	LEAVING AIR TEMPERATURE
AL	AIR HANDLING UNIT	LBS	POUNDS
AP	ACOUSTIC LINED	LF	LINEAR FOOT/FEET
APD	ACCESS PANEL	LVG	LEAVING
ARCH	AIR PRESSURE DROP	LWG	LOW WALL GRILLE
ARV	ARCHITECT/ARCHITECTURAL	LWR	LOW WALL REGISTER
	AUTOMATIC RELIEF VALVE or	LWT	LEAVING WATER TEMPERATURE
	ACID RESISTANT VENT		
ARW	ACID RESISTANT WASTE	MAX	MAXIMUM
		MBH	1000 BRITISH THERMAL UNITS PER HOUR
BDD	BACKDRAFT DAMPER	MCC	MOTOR CONTROL CENTER
BFP	BACKFLOW PREVENTER	MECH	MECHANICAL
BHP	BRAKE HORSEPOWER	MFR	MANUFACTURER
BG	BELOW GROUND	MIN	MINIMUM
BJ	BETWEEN JOISTS	MISC	MISCELLANEOUS
BTU	BRITISH THERMAL UNIT	MTD	MOUNTED
BTUH	BRITISH THERMAL UNITS PER HOUR	MTG	MOUNTING
C	CENTIGRADE	N/A	NOT APPLICABLE
CC	COOLING COIL	N/C	NORMALLY CLOSED
CD	CEILING DIFFUSER	N/O	NORMALLY OPEN
CFM	CUBIC FEET PER MINUTE	NC	NOISE CRITERIA
CG	CEILING GRILLE	NIC	NOT IN CONTRACT
CI	CAST IRON	NTS	NOT TO SCALE
CLC	CEILING CLEANOUT	OA	OUTSIDE AIR
CONC	CONCRETE	OBD	OPPOSED BLADE DAMPER
CONN	CONNECT or CONNECTION	O/C	ON CENTER
CONST	CONSTRUCTION	OD	OUTSIDE DIAMETER
CONT	CONTINUATION	OPNG	OPENING
CR	CONDENSATE RETURN	PCV	PRESSURE CONTROL VALVE
DB	DECIBEL or DRY BULB	PD	PRESSURE DROP
DDC	DIRECT DIGITAL CONTROL	PH	PHASE
DIA	DIAMETER	PLCS	PLACES
DIM	DIMENSION	POC	POINT OF CONNECTION
DN	DOWN	POJA	POINT OF USE ALARM
DPR	DAMPEN	PRV	PRESSURE REDUCING VALVE
DWG	DRAWING	PSI	POUNDS PER SQUARE INCH
E-100	EXHAUST AIR NUMBER INDICATES CFM QUANTITY	PSIG	POUNDS PER SQUARE INCH GAGE
EA	EACH	R-100	RETURN AIR NUMBER INDICATES CFM QUANTITY
EAT	ENTERING AIR TEMPERATURE	RAG	RETURN AIR GRILLE
EF	EXHAUST FAN	REQD	REQUIRED
EG	EXHAUST GRILLE	RFBP	REDUCED PRESSURE BACKFLOW PREVENTOR
ELEC	ELECTRIC or ELECTRICAL	RPM	REVOLUTIONS PER MINUTE
ELEV	ELEVATION	S-100	SUPPLY AIR NUMBER INDICATES CFM QUANTITY
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM	SA	SUPPLY AIR
ESP	EXTERNAL STATIC PRESSURE	SF	SUPPLY FAN
EWT	ENTERING WATER TEMPERATURE	SHT	SHEET
EXH	EXHAUST	SIM	SIMILAR
EXST or (E)	EXISTING	SP	STATIC PRESSURE
F	FAHRENHEIT	SQ	SQUARE
FA	FACE AREA	SQ FT	SQUARE FOOT/FEET
FCO	FLOOR CLEANOUT	SS	STAINLESS STEEL
FCU	FAN COIL UNIT	STD	STANDARD
FD	FLOOR DRAIN	THK	THICK
FDPR	FIRE DAMPER	TP	TRAP PRIMER or TEST PLUG
FF	FUNNEL FLOOR DRAIN	TYP	TYPICAL
FF	FLOOR FILTER	TU	TERMINAL UNIT
FLR	FLOOR	UBC	UNIFORM BUILDING CODE
FPM	FEET PER MINUTE	UFC	UNIFORM FIRE CODE
FPS	FEET PER SECOND	UMC	UNIFORM MECHANICAL CODE
FT	FOOT/FEET	UPC	UNIFORM PLUMBING CODE
FV	FACE VELOCITY	UG	UNDERGROUND
GA	GAGE or GAUGE	UH	UNIT HEATER
GAL	GALLON	VA	VALVE
GALV	GALVANIZED	VAC	VACUUM
GPH	GALLONS PER HOUR	VAV	VARIABLE AIR VOLUME
GPM	GALLONS PER MINUTE	VD	VOLUME DAMPER
H	HEIGHT	VEL	VELOCITY
HD	HEAD	VFD	VARIABLE FREQUENCY DRIVE
HP	HORSEPOWER	VTR	VENT THRU ROOF
HTG	HEATING	W	WIDE
HVAC	HEATING, VENTILATION AND AIR CONDITIONING	W/	WITH
HWC	HIGH WALL GRILLE	W/O	WITHOUT
HWR	HIGH WALL REGISTER	WB	WET BULB
HZ	HERTZ	WCO	WALL CLEANOUT
ID	INSIDE DIAMETER	WG	WATER GAGE
IE	INVERT ELEVATION	WGE	WASTE GAS EVACUATION
IN	INCH or INCHES	WPD	WATER PRESSURE DROP
INSUL	INSULATION	WT	WEIGHT
INV	INVERT		
KW	KILOWATT		
KWH	KILOWATT HOUR		

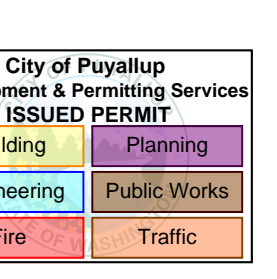
AIR DISTRIBUTION LEGEND		
SYMBOL	ABBR	DESCRIPTION
		LIGHT LINework INDICATES EXISTING DUCT OR EQUIPMENT
		INDICATES DUCT OR EQUIPMENT TO BE REMOVED
		DUCT SIZE IN INCHES FIRST SIZE LISTED IS SIDE SHOWN
	R	DUCT OFFSET (UP) IN DIRECTION OF ARROW (NOT TYPICALLY SHOWN)
	D	DUCT OFFSET (DN) IN DIRECTION OF ARROW (NOT TYPICALLY SHOWN)
		ROUND DUCT IN INCHES
		OVAL DUCT IN INCHES
		CHANGE OF DUCT SIZE
		CHANGE OF DUCT SIZE (TRIANGLE NOT ALWAYS SHOWN)
		RECTANGULAR SUPPLY DUCT ELBOW TURNED UP
		RECTANGULAR SUPPLY DUCT ELBOW TURNED DOWN OR AWAY
		RECTANGULAR RETURN/EXHAUST DUCT ELBOW TURNED UP
		RECTANGULAR RETURN/EXHAUST DUCT ELBOW TURNED DOWN OR AWAY
		SMALL RECTANGULAR DUCT ELBOW TURNED DOWN OR AWAY
		ROUND DUCT ELBOW TURNED UP
		ROUND DUCT ELBOW TURNED DOWN OR AWAY
	FLEX	FLEXIBLE DUCT
	AD	DUCT ACCESS DOOR
	VD	VOLUME DAMPER

### INSULATION REQUIREMENTS

- PIPE INSULATION REQUIREMENTS:**  
DOMESTIC COLD WATER: 1/2" THICK ON 1" DIAMETER PIPE AND SMALLER. 1" THICK ON ALL PIPING LARGER THAN 1" DIAMETER.  
DOMESTIC HOT WATER: 1" THICK ON 2" DIAMETER PIPING AND SMALLER. 1-1/2" THICK ON ALL PIPING OVER 2" DIAMETER. 1/2" INSULATION ACCEPTABLE ON RUNOUTS UP TO 8 FEET IN LENGTH ROUTED IN WALLS TO PLUMBING FIXTURES.
- DUCT INSULATION REQUIREMENTS:**  
SUPPLY DUCTS: R-3.3 INSULATION FOR ALL SUPPLY DUCTS WITHIN THE BUILDING ENVELOPE. R-8 INSULATION FOR OUTDOOR DUCTS OR DUCTS WITH OUTDOOR AIR. R-6 FOR DUCTS IN UNCONDITIONED SPACES.  
RETURN DUCTS (ALL DUCTS TRAVELING FROM SPACE BACK TO AN AIR HANDLER): R-8 INSULATION FOR OUTDOOR DUCTS AND R-6 FOR DUCTS IN UNCONDITIONED SPACES.  
ALL EXTERIOR DUCTS TO BE CLAD WITH ALUMINUM.
- EXPOSED PLENUMS IN MECHANICAL ROOMS:**  
SAME AS DUCTWORK, EXCEPT USE RIGID INSULATION BOARD WITH KRAFT BARRIER.

### DUCT CONSTRUCTION AND SEALING REQUIREMENTS

- SUPPLY DUCTWORK FROM AIR HANDLER TO TERMINAL UNITS**  
2' STATIC PRESSURE CLASS WITH ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS SEALED (SMACNA SEAL CLASS A).
- SUPPLY DUCTWORK DOWNSTREAM OF TERMINAL UNITS:**  
1' STATIC PRESSURE CLASS WITH ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS SEALED (SMACNA SEAL CLASS A). SPIRAL LOCK SEAMS IN ROUND AND FLAT OVAL DUCTWORK DO NOT REQUIRE SEALING.
- EXHAUST AND RETURN DUCTWORK:**  
2' STATIC PRESSURE CLASS WITH ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS SEALED (SMACNA SEAL CLASS A). 1' PRESSURE CLASS ACCEPTABLE BETWEEN GRILLES AND FIRST DAMPER.



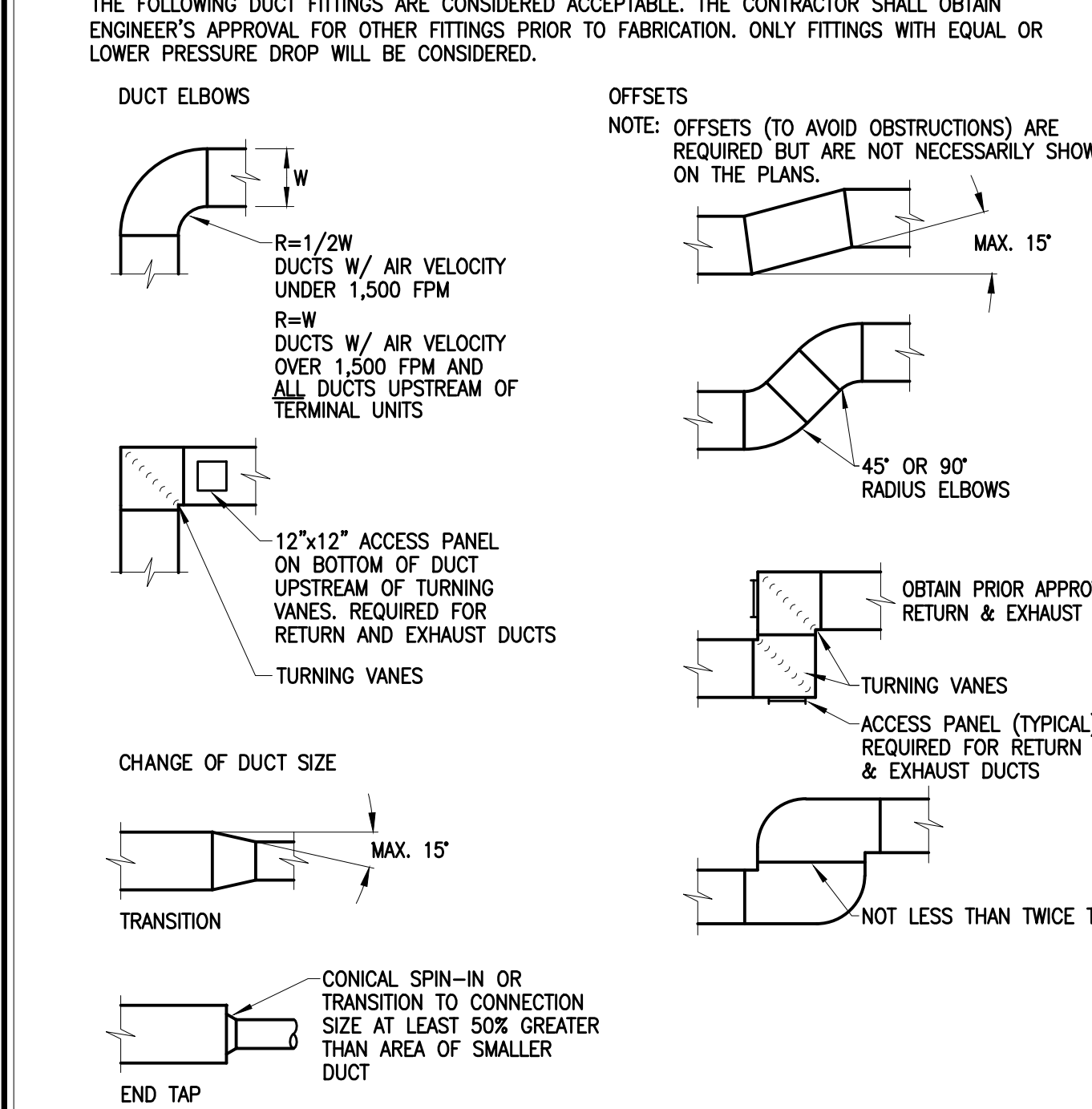
DRAWING INDEX	
SHEET NUMBER	DESCRIPTION
M0.1	COVER SHEET, GENERAL NOTES, & INDEX
M0.2	SCHEDULES
M1.1	THIRD FLOOR HVAC PLAN - DEMO
M1.2	THIRD FLOOR HVAC PLAN
M3.1	DETAILS

GENERAL NOTES	
1.	PIPE AND DUCT SIZES: WHERE A SECTION OF PIPE OR DUCT BETWEEN TAKEOFFS DOES NOT HAVE A SIZE INDICATED, IT SHALL BE SAME SIZE AS SECTION UPSTREAM (DOWNSTREAM FOR EXHAUST AND RETURN DUCTS). IN GENERAL, AS VOLUME FLOW RATE DECREASES, PIPE OR DUCT SIZE SHALL REMAIN LARGE UNTIL A SMALLER SIZE IS INDICATED. NOTE THAT SOME PIPE AND DUCT SIZES ARE INDICATED ON ASSOCIATED DEVICE SCHEDULE.
2.	CEILING COORDINATION: REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL PLANS. COORDINATE LOCATION OF DIFFUSERS, CEILING GRILLES, SPRINKLER HEADS, ETC. WITH OTHER CEILING ELEMENTS. VALVES, FIRE DAMPERS, HEATING AND COOLING COILS, AND OTHER SERVICEABLE ITEMS ABOVE THE CEILING SHALL BE LOCATED SO AS TO BE READILY ACCESSIBLE FROM REMOVABLE CEILING PANELS OR ACCESS DOORS. IF REMOVABLE PANELS OR ACCESS DOORS ARE NOT CONVENIENT, CONTACT ARCHITECT FOR DIRECTION PRIOR TO INSTALLING SERVICEABLE ITEMS.
3.	WALL MOUNTED ITEMS: REFER TO ARCHITECTURAL PLANS AND WALL ELEVATIONS FOR EXACT LOCATIONS OF PLUMBING FIXTURES, AND OTHER WALL MOUNTED OR COUNTER MOUNTED MECHANICAL ITEMS.
4.	OFFSETS: PLANS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW EXACT LOCATIONS OF DUCTWORK AND PIPING NOR DO THEY SHOW ALL OFFSETS THAT WILL BE REQUIRED FOR INSTALLATION. IN MANY CASES, OFFSETS WILL REQUIRE SIGNIFICANT ADDITIONAL LENGTHS OF PIPE OR DUCT AND ADDITIONAL FITTINGS, PARTICULARLY IN AREAS WHERE OTHER MEP DISTRIBUTION EXISTS IN UNKNOWN LOCATIONS, SUCH AS IN THE EXISTING TENANT SPACE BELOW. PROVIDE ALL NEEDED OFFSETS WITHOUT ADDED COMPENSATION. PERFORM FIELD INVESTIGATION AND COORDINATE WITH OTHER TRADES PRIOR TO FABRICATION OF DUCTWORK AND PIPING.
5.	CLEANOUTS: PLUMBING CLEANOUT LOCATIONS ARE NOT ALWAYS ESTABLISHED ON THE PLANS IN ORDER TO GIVE THE PLUMBER FLEXIBILITY TO LOCATE PLUMBING CLEANOUTS IN THE MOST ACCESSIBLE AREAS. AS A MINIMUM, PROVIDE CLEANOUTS AS REQUIRED BY THE UNIFORM PLUMBING CODE. CLEANOUTS THAT MUST BE INSTALLED IN PIPES THAT ARE IN DIFFICULT TO ACCESS AREAS SHALL BE EITHER WALL OR FLOOR CLEANOUTS SERVICED FROM THE FLOOR ABOVE. FLOOR CLEANOUTS SHALL BE LOCATED SO AS TO BE SERVICED FROM CORRIDORS, TOILETS OR JANITOR ROOMS WHEREVER POSSIBLE.
6.	PIPE AND EQUIPMENT IDENTIFICATION: PROVIDE PIPE, EQUIPMENT, AND VALVE LABELING.
7.	TRAP PRIMERS AND ARRESTORS: TRAP PRIMER ACTUATORS AND WATER HAMMER ARRESTORS SHALL BE LOCATED TO BE ACCESSIBLE EITHER THROUGH ACCESSIBLE CEILING OR WALL ACCESS DOORS, REFER TO SPECIFICATION FOR WHERE ARRESTORS NEED TO BE LOCATED.
8.	PIPING, DUCTWORK AND EQUIPMENT ANCHORAGE: PROVIDE SEISMIC RESTRAINTS AND ANCHORAGE PER SPECIFICATIONS AND THE INTERNATIONAL BUILDING CODE.
9.	HANDICAP FIXTURES: PLUMBING FIXTURES AND TRIM IN HANDICAP ACCESSIBLE AREAS SHALL COMPLY WITH ADA STANDARDS AS WELL AS STATE AND LOCAL CODES.
10.	ELECTRICAL CLEARANCES: COORDINATE WITH ALL TRADES TO MAINTAIN ELECTRICAL SERVICE CLEARANCE (PER NATIONAL ELECTRIC CODE) FOR MECHANICAL EQUIPMENT.

### ENERGY CODE NOTES

- EQUIPMENT EFFICIENCIES AND CAPACITIES: SEE EQUIPMENT SCHEDULES.
- THERMOSTATIC CONTROL AND DEADBAND: PROVIDED WITH SETPOINT, AND DEADBAND CONTROLS AS PER C403.2.4.1. THIS INCLUDES CONTROLLING NEIGHBORING OPEN ZONES TP HAVE SETPOINTS AND DEADBANDS COORDINATED SO THAT COOLING IN ADJACENT ZONES SHALL NOT OPERATE UNTIL THE ADJACENT ZONE TEMPERATURE IS 5°F HIGHER THAN PERIMETER TEMPERATURE.
- PROVIDE DDC CONTROLS IN ACCORDANCE WITH C403.2.4.12 2015 WASHINGTON STATE ENERGY CODE.
- OFF-HOUR CONTROLS: PROVIDED WITH THERMOSTATIC SETBACK, AUTOMATIC SETBACK AND SHUTDOWN, AND AUTOMATIC START AS PER C403.2.4.2 2015 WASHINGTON STATE ENERGY CODE.
- AUTOMATIC (MOTORIZED) DAMPERS AT OUTSIDE AIR INTAKES, EXHAUST OUTLETS, AND RELIEF OUTLETS. DAMPERS TO COMPLY WITH C403.2.4.3 2015 WASHINGTON STATE ENERGY CODE DAMPER LEAKAGE RATES SHALL NOT EXCEED 4 CFM / SQ.FT. AT 1.0" W.G. FOR MOTORIZED DAMPERS OR 20 CFM / SQ.FT. AT 1.0" W.G. FOR NONMOTORIZED DAMPERS, EXCEPT NONMOTORIZED DAMPERS SMALLER THAN 24" IN EITHER DIMENSION WHERE THE MAXIMUM ALLOWABLE LEAKAGE RATE IS 40 CFM / SQ.FT.
- ECONOMIZER FAULT DETECTION: IN ACCORDANCE WITH C403.2.4.7, PROVIDE ECONOMIZER FAULT DETECTION AND DIAGNOSTICS ON REQUIRED EQUIPMENT
- HEAT PUMP (UNITARY, AIR COOLED) MICROPROCESSOR CONTROLS: PROVIDED PER WASHINGTON STATE ENERGY CODE SECTION C403.2.4.1.1
- FREEZE PROTECTION CONTROL SYSTEMS: FREEZE PROTECTION SYSTEMS, SUCH AS HEAT TRACE, SHALL INCLUDE AUTOMATIC SHUT-OFF WHEN OSA IS ABOVE 40°F PER C403.2.4.6
- BALANCING DAMPERS, VALVES, AND ASSOCIATED TESTING AND ADJUSTING EQUIPMENT ARE SHOWN ON THE HVAC, PLUMBING, AND PIPING DIAGRAMS.
- AIR ECONOMIZERS: SEE EQUIPMENT SCHEDULES. INTEGRATED ECONOMIZER CONTROLS TO BE PER C403.3.1. ECONOMIZER TO NOT INCREASE BUILDING HEATING. HIGH-LIMIT SHUT-OFF TO BE PER ENERGY CODE TABLE C403.3.3.3
- DUCT SEALING: SEE 'DUCT CONSTRUCTION AND SEALING REQUIREMENTS'
- DUCT AND PIPING INSULATION: SEE 'INSULATION REQUIREMENTS' ON SHEET(S) M0.01
- PROVIDE AS-BUILT RECORD DRAWINGS AND OPERATING AND MAINTENANCE MANUALS AS SPECIFIED AND AS REQUIRED BY SECTION C103.6 OF THE 2015 WASHINGTON STATE ENERGY CODE
- PROVIDE MECHANICAL SYSTEMS COMMISSIONING (INCLUDES COMMISSIONING PLAN AND REPORTS) FOR ALL SYSTEMS PER SPECIFICATIONS AND SECTION 408 OF THE 2015 WASHINGTON STATE ENERGY CODE. BALANCING SUBCONTRACTOR SHALL BE NEBB OR ABC MEMBER. BALANCING CONTRACTOR SHALL BE CONTRACTED WITH THE OWNER. COMPLETED COMMISSIONING REPORT SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER.

### DUCT FITTING REQUIREMENTS



**COFFMAN ENGINEERS**  
1101 2nd Avenue, Suite 400  
Seattle, WA 98101  
ph 206.623.0717  
www.coffman.com

OWNER: **MultiCare** BetterConnected

PROJECT NAME: **MultiCare GSMOB Orthopedics & Sports Medicine Clinic T.I.**  
1450 5th St SE  
Puyallup, WA 98372

MARK	DATE	DESCRIPTION
	06/30/2022	PERMIT SUBMITTAL #1

PROJECT NO. 31236  
DRAWN BY:  
DATE: 06.30.2022  
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SHEET TITLE: **COVER SHEET, GENERAL NOTES, & INDEX**  
SHEET #: **M0.1**



### HEALTHCARE AIR CHANGE RATES

AREA SERVED	FUNCTION OF SPACE	FLOOR AREA (SQ. FT.)	ROOM HEIGHT (FT.)	ROOM VOLUME (CU. FT.)	ASHRAE 170 REQUIREMENTS				DESIGN AIRFLOW CONDITIONS						
					PRESSURE RELATIONSHIP	OUTSIDE AIR		TOTAL		PRESSURE RELATIONSHIP	OUTSIDE AIR (CFM)	SUPPLY (CFM)	EXHAUST (CFM)	RETURN (CFM)	TOTAL AIR CHANGES (ACHR)
						MN. AIR CHANGES (ACHR)	MN. AIR FLOW (CFM)	MN. AIR CHANGES (ACHR)	MN. AIR FLOW (CFM)						
4308	EXAM ROOM	104	9	936	-	2	31	6.0	94	-	105	375	130		24.0
4311	EXAM ROOM	121	9	1089	-	2	36	6.0	109	-	36	130		110	7.2
4315	EXAM ROOM	107	9	963	-	2	32	6.0	96	-	36	130		110	8.1
4306/4312	PATIENT CORRIDOR	211	9	1899	-	0	0	2.0	63	-	28	100			3.2

### VAV TERMINAL UNIT SCHEDULE

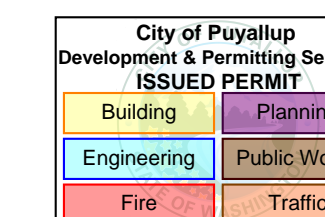
UNIT NO.	BASIS OF DESIGN	SERVICE	VAV DUCT SIZE	MAX. CFM	MIN. CFM	EAT	LAT	ELECTRIC HEATING KW	REMARKS
VAV-2/4-10	TRANE VCEF	EXAM ROOMS	6	260	260	50	95	4	ALL
VAV-2/4-13	TRANE VCEF	EXAMS ROOMS	8	375	130	50	95	2	ALL

**NOTES:**

- PROVIDE WITH SCR CONTROL
- VAV DUCT SIZE IS FOR UNIT SIZING ONLY, ACTUAL CONNECTED DUCTS TO BE EITHER ONE SIZE LARGER OR THE SIZE INDICATED ON THE DRAWINGS
- CONTROL POWER BY BAS
- MIN CFM BASED ON 28% OSA
- VAV TO HAVE NO LINER OR STERILOC LINDER

### DIFFUSER AND GRILLE SCHEDULE

MARK	TYPE	NC	BASIS OF DESIGN	REMARKS
CD-1	CEILING DIFFUSER	25	TITUS MCD	MODULAR CORE DIFFUSER, LAY-IN
RG-1	CEILING EXHAUST GRILLE, ALUMINUM	25	TITUS 350FL	ALUMINUM, LOUVERED, 3/4" BLADE SPACING, 35° DEFLECTION, LAY-IN
EG-1	CEILING EXHAUST GRILLE, ALUMINUM	25	TITUS 350FL	ALUMINUM, LOUVERED, 3/4" BLADE SPACING, 35° DEFLECTION, LAY-IN



OWNER:

**MultiCare**  
BetterConnected

PROJECT NAME:

**MultiCare  
GSMOB  
Orthopedics &  
Sports Medicine  
Clinic T.I.**

1450 5th St SE  
Puyallup, WA 98372

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PROJECT NO. 31236

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DATE: 06.30.2022

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SHEET TITLE:  
**MECHANICAL  
SCHEDULES**

SHEET #:

**M0.2**





































**LIGHTING COMPLIANCE SUMMARY**

2018 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1 — Administered by: ©2022 NEEA, All rights reserved

Project Title: **GSMOB PUALLUP 4TH FLOOR - 2018 WSEC** Date: **Jun 02, 2022**

Project & Applicant Information: 1450 5TH SE SE, PUYALLUP, WA 98372

Project Address: 1450 5TH SE SE, PUYALLUP, WA 98372

Applicant Name: Coffman Engineers

Applicant Phone: 206-623-0717

Applicant Email: Seattle@NLEC.coffman.com

For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com

General Occupancy	All Commercial	General Building Use Type	Healthcare, Hospital	Building Cond. Floor Area	608
General Project Types	Alteration	Interior Lighting	Interior Lighting	Project Cond. Floor Area	608
Lighting Project Description	REPLACED LED FIXTURES				
Lighting Compliance Scope and Method	Alteration	Interior/ Exterior (interior includes both interior & parking)	Luminaire Replacement Scope	50% or more replaced	Compliance Method
Additional Efficiency Options Included	None				

Project Title: **GSMOB PUALLUP 4TH FLOOR - 2018 WSEC** Date: **Jun 02, 2022**

Lighting Power Calculation: **ALTERATION - INTERIOR LIGHTING (50% or more replaced)** Compliance Verification: **COMPLIES**

Compliance Method: Building area LPA Calculation Adjustment

Interior Lighting Power Allowance - Building Area				
Building Areas	Gross Interior Area (SF)	LPA (Watts/SF)	Total Watts Allowed (SF x WpL x 1)	Total Proposed Watts By Building Area
Hospital	608	0.84	511	310

Proposed Lighting Power Density							
Fixture Type/Application	Fixture ID	Building Area	New or Existing-to-Remain	Quantity of Fixtures, CLDs or Luminaires (qf)	Watts per Fixture, CLD or Luminaire (WpF)	Total Linear Foot (LF)	Total Watts Proposed (qf x WpF) or (LF x WpLF)
Individual Fixtures	Other fixture type	RA1	Hospital	New	7	38	266
	Other fixture type	RB1	Hospital	New	1	44	44

Project Title: **GSMOB PUALLUP 4TH FLOOR - 2018 WSEC** Date: **Jun 02, 2022**

Proposed Fixtures Details: **ALTERATION - INTERIOR LIGHTING (50% or more replaced)**

Fixture Type/Application	Fixture ID	Location in Documents	Lamp Type	Building Area	New or Existing-to-Remain
Individual Fixtures	Other fixture type	RA1	LED	Hospital	New
	Other fixture type	RB1	LED	Hospital	New

Do these fixtures require specific application lighting controls? None required

**Lighting, Motor and Electrical Requirements List, pg 1 of 10**

2018 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1 — Administered by ©2022 NEEA, All rights reserved

The following information is necessary to check a permit application for compliance with the lighting systems, motors and electrical system requirements in the Washington State Energy Code, Commercial Provisions.

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Project: **GSMOB PUALLUP 4TH FLOOR - 2018 WSEC** Date: **2022-06-02**

1450 5TH SE SE, PUYALLUP, WA 98372

Applies	Code Section	Component	Compliance Information Required In Permit Documentation	Location in Documents	Building Department Notes
<b>LIGHTING SCOPE</b>					
NA	C103.1	Construction documents - General	For a shell & core or tenant space (first build-out) project, indicate if there is no lighting scope included in the project.		
NA	C103.1	Construction documents - General	For an alteration project, indicate if there is no lighting scope included in the project.		
<b>LIGHTING CONTROLS</b>					
YES	C405.2	Lighting controls, general	For all lighting fixtures, indicate lighting control method on plans for spaces and lighting zone(s) served, or exception taken	E2.1	
NA	C405.2, Option 2	Luminaire level lighting controls (LLLC)	Indicate on plans all fixtures provided with LLLC in lieu of C405.2 lighting controls; provide description of control capabilities and performance parameters		
NA	C405.2.5, Item 3	Lighting in dwelling units (domesticity, hotel and all other than multifamily)	Indicate method of automatic control of all installed luminaires in dwelling units in buildings other than multifamily (occupancy or light reduction controls)		
NO	C405.2.5, Item 2	Lighting in sleeping units	Indicate method of automatic off control of all installed luminaires in sleeping units (vacancy or key card control); also refer to Receptacles		
NA	C405.2.3	Manual controls	Indicate on plans the method of manual lighting control, location of manual control device and the area or specific application it serves		
NA	C405.2.3.1	Manual interior light reduction controls	Indicate on plans which method of manual 50% lighting load reduction is provided, or indicate applicable exception		
NA	C405.2.1	Method of automatic shut-off control	Indicate on plans the method of automatic shut-off control during unoccupied periods (occupancy sensor, time switch or digital timer switch) for all lighting zones		
YES	C405.2.1	Occupant sensor controls	Indicate on plans all luminaires that are controlled by occupant sensor controls; indicate controls are configured to turn luminaires 100% off when the space is unoccupied	E2.1	
YES	C405.2.1	Occupant sensor controls	Indicate if occupant sensor controls are configured to be manual on or automatic on to not more than 50% power; indicate spaces eligible for exception that allows automatic on to 100% power	E2.1	

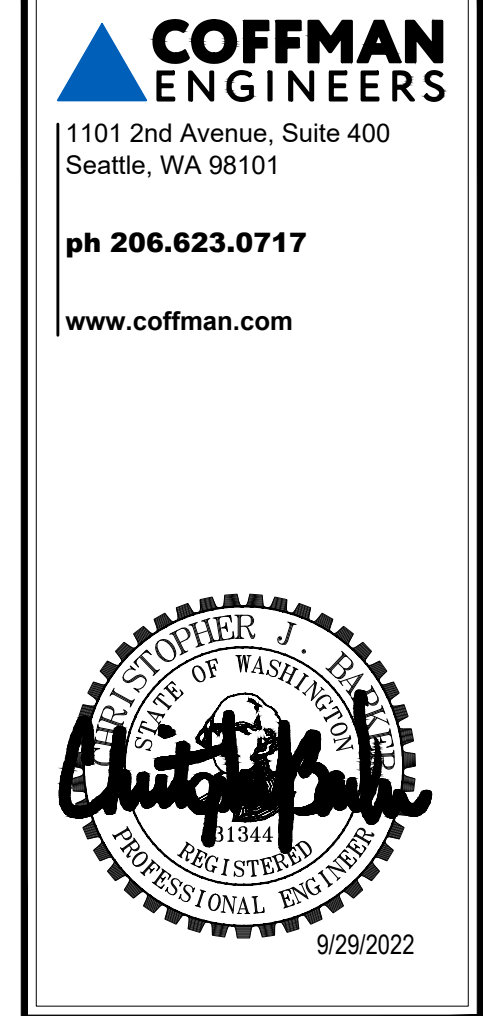
**Lighting, Motor and Electrical Requirements List, pg 2 of 10**

2018 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1 — Administered by ©2022 NEEA, All rights reserved

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NA	C405.2.1.2	Occupant sensor controls - warehouses spaces	Indicate each aisleway and corridor within a warehouse space are designated as separate zones that are independently controlled		
NA			Indicate occupant sensors are configured to automatically reduce lighting power by 50% when the zone is unoccupied and 100% off after the zone is unoccupied for over 20 minutes; indicate controls are configured to automatically restore lighting to full power when the zone or space is occupied		
NA	C405.2.1.3	Occupant sensor controls - open plan office areas	For open plan office areas larger than 300 sf, indicate general lighting is provided with vacancy controls that reduce lighting power by not less than 80% and are configured to turn luminaires 100% off when the space is unoccupied; indicate that no individual control zone area exceeds 600 sf		
NA	C405.2.1.4	Occupant sensor controls - parking garages	Indicate parking garage general lighting is provided with vacancy controls that reduce lighting power by not less than 30% and are configured to turn luminaires 100% off when no vehicles or pedestrians are present, unless eligible for an exception; indicate that no individual control zone area exceeds 3,600 sf		
NA	C405.2.1.5	Occupant sensor controls - enclosed fire-rated stairwells	Indicate stairway lighting is provided with vacancy controls that reduce lighting power by not less than 50% when the stairway is unoccupied		
NA	C405.2.2.1	Automatic time switch controls	Indicate spaces on plans where time switch controls turn luminaires 100% off during unoccupied hours		
NA			Indicate spaces on plans where time switch controls are configured to turn on lighting to full power versus 50% power		
NA			Indicate locations of override switches on plans and the lighting zone(s) served; indicate that the area(s) served by each override switch does not exceed 5,000 sf		
NA	C405.2.1, Exception 3	Digital timer switch	Indicate digital timer switch control includes: manual shutoff, time delay, audible and visual indication of impending timeout		
NA	C405.2.4.2	Daylight zones - Sidelit and toplit	Indicate primary and secondary sidelit daylight zone floor areas on plans		
NA			Indicate toplit daylight zone floor areas on plans		
NA			For small vertical fenestration assemblies (rough opening less than 10 percent of primary daylight zone floor area) where daylight responsive controls are not required, provide fenestration area to daylight zone floor area calculation(s)		



OWNER: **MultiCare** BetterConnected

PROJECT NAME: **MultiCare GSMOB Orthopedics & Sports Medicine Clinic T.I.**  
1450 5th St SE, Puyallup, WA 98372

MARK	DATE	DESCRIPTION
	7/1/2022	PERMIT SUBMITTAL #1
▲	9/27/2022	PERMIT SUBMITTAL #2

PROJECT NO. **220991**

DRAWN BY:

DATE: **1 JULY 2022**

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SHEET TITLE: **NREC**

SHEET #: **E0.4**

**Lighting, Motor and Electrical Requirements List, pg 3 of 10**

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NA	C405.2.4	Daylight responsive controls	Indicate on plans lighting zone(s) served by daylight responsive controls; indicate that the area served by each control device does not exceed 2,500 sf		
NA			Identify sidelit and toplit daylight zones that are not provided with daylight sensing controls and the exception(s) that apply		
NA	C405.2.4.1.1	Daylight responsive controls	Indicate on plans the lighting load reduction method (continuous dimming, or stepped dimming that provides at least two even steps between 0%-100% of rated power)		
NA	C405.2.4.1	Daylight responsive controls	Indicate that daylight sensing controls are configured to completely shut off all controlled lights in the lighting zone		
NA	C405.2.5	Additional controls - Specific application lighting controls	Identify spaces and lighting fixtures on plans that require specific application lighting controls per this section		
NA	C405.2.5, Item 1	Display and accent lighting	Indicate on plans that manual controls are provided that control display, accent lighting and display case lighting independently from both general area lighting and other lighting applications within the same space		
NA			Indicate manual and automatic (occupant sensor or time switch) lighting control methods		
NA	C405.2.5, Item 3	Hotel/motel guest rooms	Indicate method of automatic control - vacancy or captive key control of all installed luminaires and switched receptacles in guest rooms		
NA	C405.2.5, Item 1	Supplemental task lighting	Indicate method and location of manual and automatic shut-off control (occupant sensor or time switch) for supplemental task lighting, including under-shell or under-cabinet lighting		
NA	C405.2.5, Item 1	Lighting equipment for sale or demonstration	Indicate on plans that lighting equipment for sale or demonstration are controlled independently from both general area lighting and other lighting applications within the same space		
NA			Indicate manual and automatic (occupant sensor or time switch) lighting control methods		
NA	C405.2.5, Item 4	Lighting for non-visual applications	Identify all eligible non-visual lighting applications on plans; indicate that the area served by each control device does not exceed 4,000 sf		
NA			Indicate on plans that non-visual lighting are controlled independently from both general area lighting and other lighting applications within the same space		

**Lighting, Motor and Electrical Requirements List, pg 4 of 10**

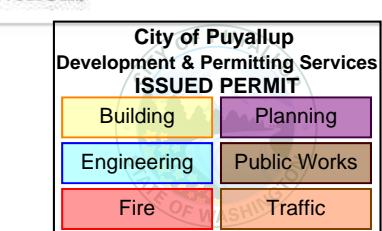
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NA			Indicate method of manual lighting control and applicable automatic lighting control		
NA	C405.2.5, Item 5	Means of egress lighting	Identify on plans egress fixtures that function as both normal and emergency means of egress illumination		
NA			Provide calculation of lighting power density of total egress lighting		
NA			If total egress lighting power density is greater than 0.02 W/sq. ft., indicate on plans egress fixtures requiring automatic shut-off during unoccupied periods		
NA			Indicate method of automatic shut-off control		
NA	C405.4.1	Lighting control of exempt interior lighting	Indicate that exempt interior lighting equipment and lighting located within spaces that are eligible for a lighting power exemption are controlled independently from non-exempt and general area lighting		
NA	C405.2.6	Exterior lighting controls	For decorative exterior lighting, indicate on plans automatic daylight shut-off controls, or exception taken		
NA			For exterior lighting that is not decorative, indicate on plans automatic daylight or time-switch shut-off controls and setback controls; or indicate exception taken		
NA			For lighting requiring setback controls, include control sequence that reduces lighting power by at least 30% between 12am-6am, or from 1 hour after closing to 1 hour before opening, or based upon motion sensor		
NA			For building facade and landscape lighting, indicate control sequence for shut-off control is based on days-of-week and business opening/closing schedule; indicate whether automatic or time switch controls will be provided for this function		
NA	C405.5.2	Lighting control of exempt exterior lighting	Indicate that exempt exterior lighting and lighting located within exterior areas/surfaces that are eligible for a lighting power exemption are controlled independently from non-exempt exterior lighting		
NA	C405.5.4	Exterior gas-fired lighting appliances	Indicate ignition system is a method other than continuously burning pilot light		
NA	C405.2.7	Area controls - Master control switches, circuit breaker power limit	Indicate location(s) of master control switch(es) intended to control multiple independent switches; circuit breaker may not be used as a master control switch		
NA			Verify that no 20 amp circuit controlled by a single switch or automatic control is loaded beyond 80%		

ADDITIONAL EFFICIENCY CREDIT - ENHANCED INTERIOR LIGHTING CONTROLS



REVISIONS TO PERMIT: PRCTI20221166

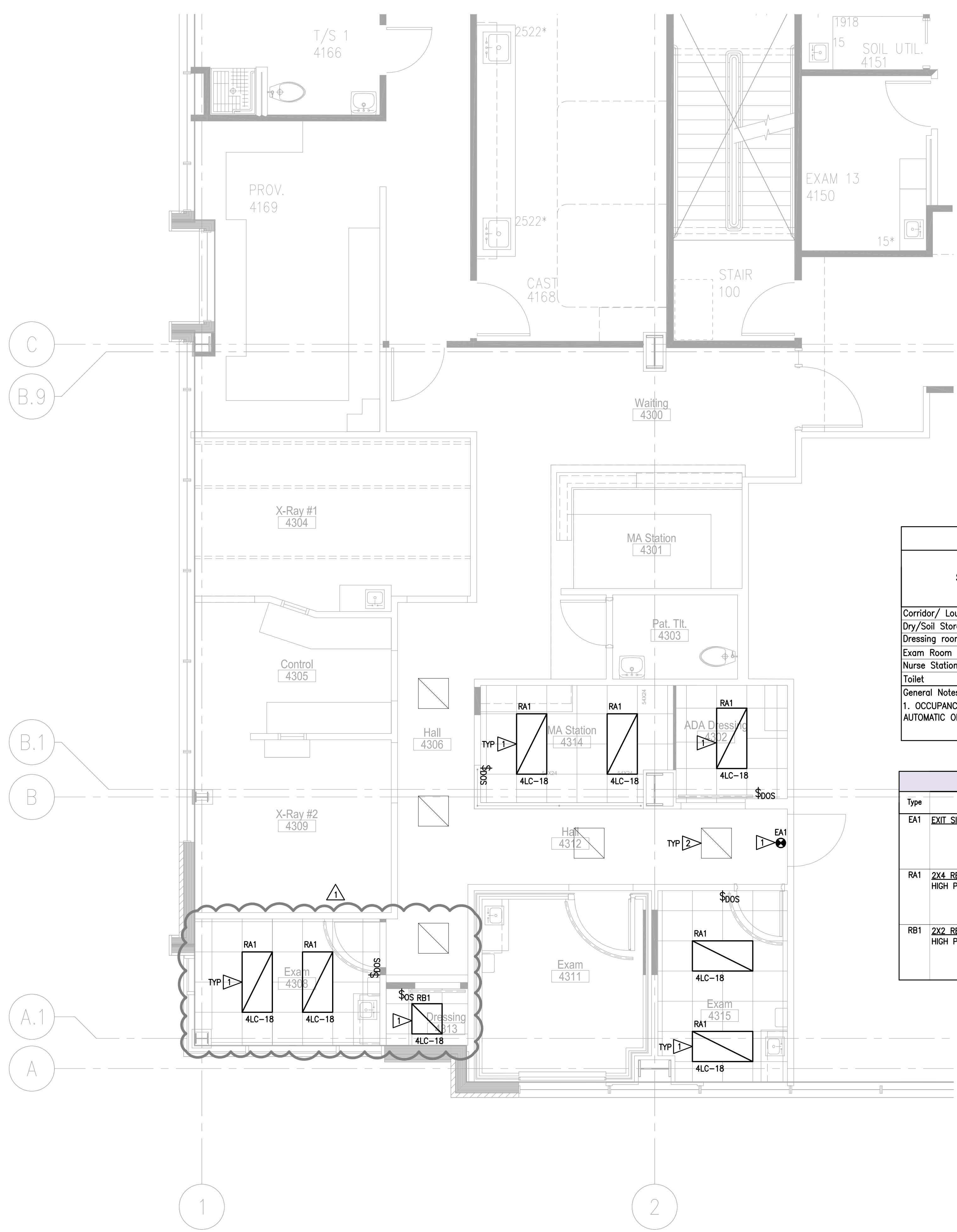






**FLAG NOTES**

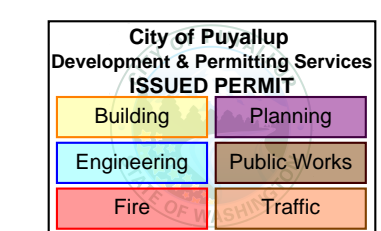
- 1 REUSE EXISTING BRANCH CIRCUIT. FIELD VERIFY.
- 2 EXISTING HALL LIGHTING TO REMAIN.



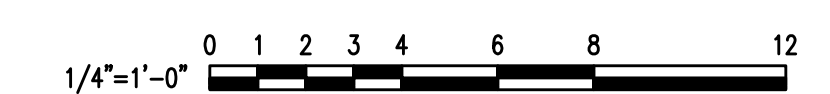
Lighting Control Matrix							
Space Type	Switching Strategy						Comments
	Time Clock	Occupancy/Vacancy Sensor	Switching Zones	USER ON/OFF	User ON/OFF Dimming	Scene Control	
Corridor/ Lounge/ Lobby	X	-	PER PLAN	NO	NO	NO	OCCUPANCY SENSORS FOR AFTER HOURS OVERRIDE
Dry/Soil Storage/Clean Supply	-	X	1	NO	NO	NO	
Dressing room	-	X	1	YES	YES	NO	
Exam Room	-	X	1	YES	YES	NO	
Nurse Station/ Nourish Alcove	X	X	1	YES	YES	NO	
Toilet	-	X	1	YES	YES	NO	

General Notes:  
 1. OCCUPANCY SENSORS SHALL BE SET-UP FOR AUTOMATIC OFF/MANUAL ON WITH A 15 MINUTE TIME OUT. IN CORRIDORS AND RESTROOMS OCCUPANCY SENSORS SHALL BE SET UP FOR AUTOMATIC OFF/AUTOMATIC ON WITH A 15 MINUTE TIME OUT.

LUMINAIRE SCHEDULE						
Type	Description	Lamp Type	Ballast/ Driver	Dimming Type	WATTS/VA	Manufacturer Information
EA1	EXIT SIGN-UNIVERSAL MOUNTING, WHITE THERMOPLASTIC	2W GREEN LED	INTEGRAL ELECTRONIC DRIVER	-	2/2	BEGHELLI "VA5" SERIES
RA1	2X4 RECESS MOUNT GASKETED LED LUMINAIRE HIGH PERFORMANCE EXTRUDED ACRYLIC DIFFERS CONCEAL LEDS	38W LED 3500k 4894 LUMENS	INTEGRAL DIMMING DRIVER	0-10V 1%	38/38	LITHONIA LIGHTING "2BLT4" SERIES
RB1	2X2 RECESS MOUNT GASKETED LED LUMINAIRE HIGH PERFORMANCE EXTRUDED ACRYLIC DIFFERS CONCEAL LEDS	44W LED 3500K 4800 LUMENS	INTEGRAL DIMMING DRIVER	0-10V 1%	38/38	LITHONIA LIGHTING "2BLT2" SERIES



**LIGHTING PLAN**  
 SCALE: 1/4" = 1'-0"



**COFFMAN ENGINEERS**  
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 ph 206.623.0717  
 www.coffman.com

OWNER:  
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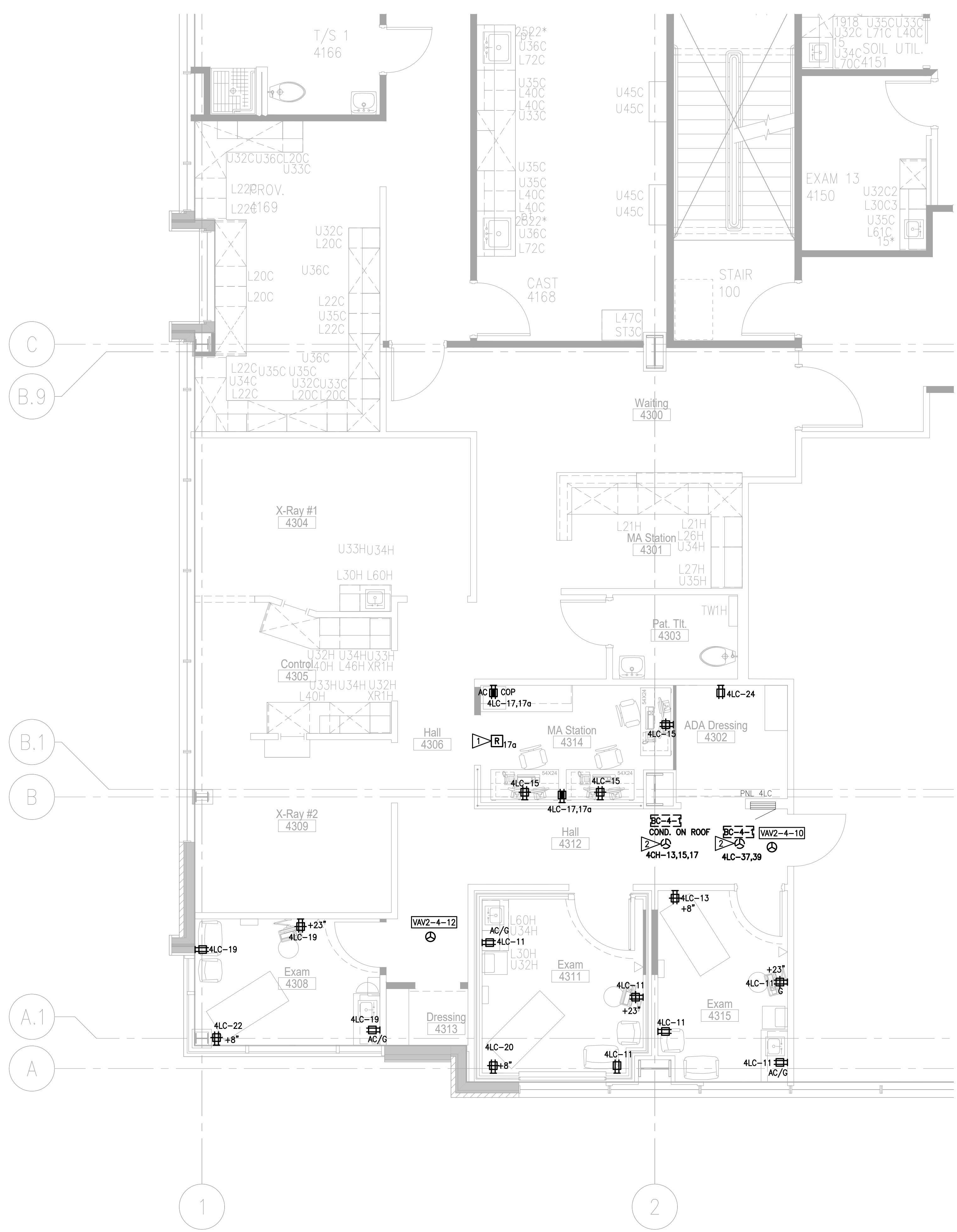
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SHEET TITLE:  
**LIGHTING PLAN & SCHEDULES**

SHEET #:  
**E2.1**



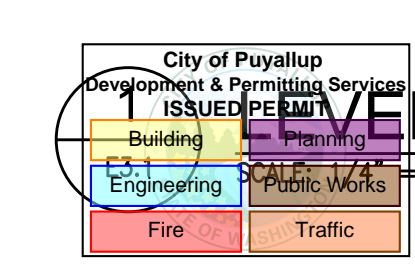
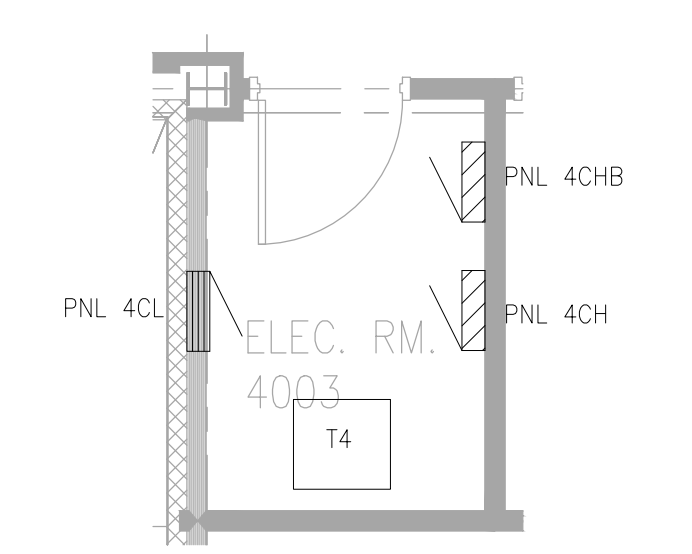


**GENERAL NOTES**

1. REFER TO ARCHITECTURE ELEVATION FOR RECEPTACLE/DATA MOUNTING HEIGHT.

**FLAG NOTES**

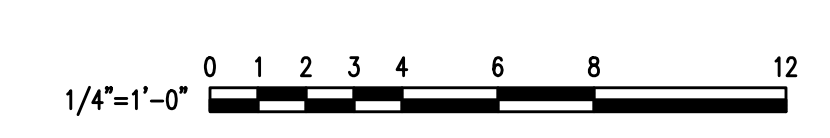
- ▶ PROVIDE RELAY INTERFACED WITH THE LIGHTING CIRCUIT IN THIS SPACE TO TURN SWITCHED RECEPTACLES ON/OFF.
- ▶ REMOVE EXISTING SPLIT SYSTEM. SEE MECHANICAL FOR DEMOLITION EQUIPMENT.



**FL 4 ELECTRICAL ROOM**

1'-0"

**POWER PLAN**  
SCALE: 1/4" = 1'-0"



**COFFMAN ENGINEERS**  
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SHEET TITLE:  
**POWER PLAN**

SHEET #:  
**E3.1**







OWNER:

**MultiCare**  
BetterConnected

PROJECT NAME:

**MultiCare  
GSMOB  
Orthopedics &  
Sports Medicine  
Clinic T.I.**

1450 5th St SE  
Puyallup, WA 98372

MARK	DATE	DESCRIPTION
	7/1/2022	PERMIT SUBMITTAL #1
▲	9/27/2022	PERMIT SUBMITTAL #2

PROJECT NO. 220991

DRAWN BY:  
DATE: 1 JULY 2022  
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SHEET TITLE:  
**ONE-LINE  
DIAGRAM**

SHEET #:

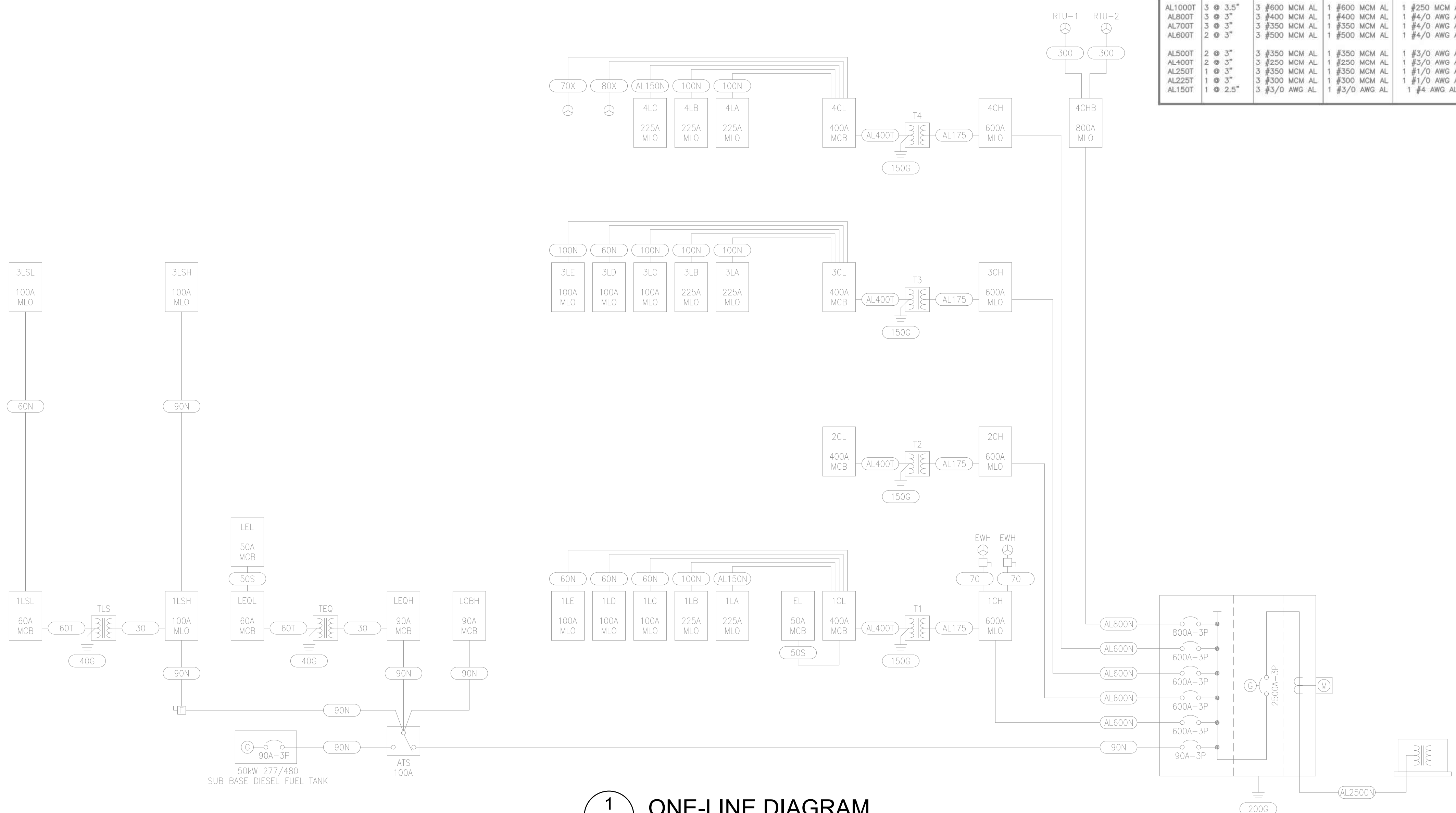
**E5.1**

**Aluminum Feeder Schedule:**

Feeder Number	Conduit Qty & Size	Phase Cond Qty & Size	Neut Cond Qty & Size	Ground Cond Qty & Size
<b>3 phase with neutral</b>				
AL3000N	9 @ 3.5"	3 #600 MCM AL	1 #600 MCM AL	1 #600 MCM AL
AL2500N	7 @ 3.5"	3 #700 MCM AL	1 #700 MCM AL	1 #600 MCM AL
AL2000N	6 @ 3.5"	3 #600 MCM AL	1 #600 MCM AL	1 #600 MCM AL
AL1600N	5 @ 3.5"	3 #600 MCM AL	1 #600 MCM AL	1 #350 MCM AL
AL1200N	4 @ 3"	3 #500 MCM AL	1 #500 MCM AL	1 #250 MCM AL
AL1000N	4 @ 3"	3 #350 MCM AL	1 #350 MCM AL	1 #4/0 AWG AL
AL800N	3 @ 3"	3 #400 MCM AL	1 #400 MCM AL	1 #3/0 AWG AL
AL700N	3 @ 2.5"	3 #300 MCM AL	1 #300 MCM AL	1 #2/0 AWG AL
AL600N	2 @ 3"	3 #500 MCM AL	1 #500 MCM AL	1 #2/0 AWG AL
AL500N	2 @ 3"	3 #350 MCM AL	1 #350 MCM AL	1 #1/0 AWG AL
AL400N	2 @ 2.5"	3 #4/0 AWG AL	1 #4/0 AWG AL	1 #1 AWG AL
AL350N	1 @ 3.5"	3 #600 MCM AL	1 #600 MCM AL	1 #1 AWG AL
AL300N	1 @ 3"	3 #500 MCM AL	1 #500 MCM AL	1 #2 AWG AL
AL250N	1 @ 3"	3 #350 MCM AL	1 #350 MCM AL	1 #2 AWG AL
AL225N	1 @ 2.5"	3 #300 MCM AL	1 #300 MCM AL	1 #2 AWG AL
AL200N	1 @ 2.5"	3 #250 MCM AL	1 #250 MCM AL	1 #4 AWG AL
AL175N	1 @ 2"	3 #4/0 AWG AL	1 #4/0 AWG AL	1 #4 AWG AL
AL150N	1 @ 2"	3 #3/0 AWG AL	1 #3/0 AWG AL	1 #4 AWG AL
AL125N	1 @ 1.5"	3 #1/0 AWG AL	1 #1/0 AWG AL	1 #4 AWG AL
<b>3 phase no neutral</b>				
AL1600	5 @ 3"	3 #600 MCM AL	(None)	1 #350 MCM AL
AL1200	4 @ 3"	3 #500 MCM AL	(None)	1 #250 MCM AL
AL1000	4 @ 2.5"	3 #350 MCM AL	(None)	1 #4/0 AWG AL
AL800	3 @ 2.5"	3 #400 MCM AL	(None)	1 #3/0 AWG AL
AL700	3 @ 2.5"	3 #300 MCM AL	(None)	1 #3/0 AWG AL
AL600	2 @ 3"	3 #500 MCM AL	(None)	1 #2/0 AWG AL
AL500	2 @ 2.5"	3 #350 MCM AL	(None)	1 #1/0 AWG AL
AL300	1 @ 3"	3 #500 MCM AL	(None)	1 #2 AWG AL
AL250	1 @ 2.5"	3 #350 MCM AL	(None)	1 #2 AWG AL
AL225	1 @ 2"	3 #300 MCM AL	(None)	1 #2 AWG AL
AL200	1 @ 2"	3 #250 MCM AL	(None)	1 #4 AWG AL
AL175	1 @ 2"	3 #4/0 AWG AL	(None)	1 #4 AWG AL
AL150	1 @ 1.5"	3 #3/0 AWG AL	(None)	1 #4 AWG AL
AL125	1 @ 1.25"	3 #1/0 AWG AL	(None)	1 #4 AWG AL
<b>Single Phase no neutral</b>				
AL200S	1 @ 1.5"	2 #250 MCM AL	(None)	1 #4 AWG AL
AL175S	1 @ 1.5"	2 #4/0 AWG AL	(None)	1 #4 AWG AL
AL150S	1 @ 1.25"	2 #3/0 AWG AL	(None)	1 #4 AWG AL
AL125S	1 @ 1.25"	2 #1/0 AWG AL	(None)	1 #4 AWG AL
<b>Transformer Secondary Feeder</b>				
AL1000T	3 @ 3.5"	3 #600 MCM AL	1 #600 MCM AL	1 #250 MCM AL
AL800T	3 @ 3"	3 #400 MCM AL	1 #400 MCM AL	1 #4/0 AWG AL
AL700T	3 @ 3"	3 #350 MCM AL	1 #350 MCM AL	1 #4/0 AWG AL
AL600T	2 @ 3"	3 #500 MCM AL	1 #500 MCM AL	1 #4/0 AWG AL
AL500T	2 @ 3"	3 #350 MCM AL	1 #350 MCM AL	1 #3/0 AWG AL
AL400T	2 @ 3"	3 #250 MCM AL	1 #250 MCM AL	1 #3/0 AWG AL
AL250T	1 @ 3"	3 #500 MCM AL	1 #500 MCM AL	1 #1/0 AWG AL
AL225T	1 @ 3"	3 #350 MCM AL	1 #350 MCM AL	1 #1/0 AWG AL
AL150T	1 @ 2.5"	3 #3/0 AWG AL	1 #3/0 AWG AL	1 #4 AWG AL

**Copper Feeder Schedule:**

Feeder Number	Conduit Qty & Size	Phase Cond Qty & Size	Neut Cond Qty & Size	Ground Cond Qty & Size
<b>3 phase with neutral</b>				
3000N	8 @ 3.5"	3 #500 MCM Cu	1 #500 MCM Cu	1 #400 MCM Cu
2500N	7 @ 3.5"	3 #500 MCM Cu	1 #500 MCM Cu	1 #350 MCM Cu
2000N	6 @ 3.5"	3 #500 MCM Cu	1 #500 MCM Cu	1 #250 MCM Cu
1600N	5 @ 3.5"	3 #500 MCM Cu	1 #500 MCM Cu	1 #4/0 AWG Cu
1200N	4 @ 3"	3 #350 MCM Cu	1 #350 MCM Cu	1 #3/0 AWG Cu
1000N	3 @ 3.5"	3 #500 MCM Cu	1 #500 MCM Cu	1 #2/0 AWG Cu
800N	2 @ 3.5"	3 #500 MCM Cu	1 #500 MCM Cu	1 #1/0 AWG Cu
600N	2 @ 3"	3 #350 MCM Cu	1 #350 MCM Cu	1 #1 AWG Cu
500N	2 @ 2.5"	3 #250 MCM Cu	1 #250 MCM Cu	1 #2 AWG Cu
400N	1 @ 3.5"	3 #500 MCM Cu	1 #500 MCM Cu	1 #3 AWG Cu
350N	1 @ 3.5"	3 #500 MCM Cu	1 #500 MCM Cu	1 #3 AWG Cu
300N	1 @ 3"	3 #350 MCM Cu	1 #350 MCM Cu	1 #4 AWG Cu
250N	1 @ 2.5"	3 #250 MCM Cu	1 #250 MCM Cu	1 #4 AWG Cu
225N	1 @ 2.5"	3 #4/0 AWG Cu	1 #4/0 AWG Cu	1 #4 AWG Cu
200N	1 @ 2"	3 #3/0 AWG Cu	1 #3/0 AWG Cu	1 #6 AWG Cu
175N	1 @ 2"	3 #2/0 AWG Cu	1 #2/0 AWG Cu	1 #6 AWG Cu
150N	1 @ 2"	3 #1/0 AWG Cu	1 #1/0 AWG Cu	1 #6 AWG Cu
125N	1 @ 1.5"	3 #1 AWG Cu	1 #1 AWG Cu	1 #6 AWG Cu
110N	1 @ 1.25"	3 #2 AWG Cu	1 #2 AWG Cu	1 #6 AWG Cu
100N	1 @ 1.25"	3 #3 AWG Cu	1 #3 AWG Cu	1 #6 AWG Cu
90N	1 @ 1.25"	3 #3 AWG Cu	1 #3 AWG Cu	1 #6 AWG Cu
80N	1 @ 1.25"	3 #4 AWG Cu	1 #4 AWG Cu	1 #6 AWG Cu
70N	1 @ 1.25"	3 #4 AWG Cu	1 #4 AWG Cu	1 #6 AWG Cu
60N	1 @ 1"	3 #6 AWG Cu	1 #6 AWG Cu	1 #10 AWG Cu
50N	1 @ 3/4"	3 #6 AWG Cu	1 #6 AWG Cu	1 #10 AWG Cu
40N	1 @ 3/4"	3 #8 AWG Cu	1 #8 AWG Cu	1 #10 AWG Cu
30N	1 @ 1/2"	3 #10 AWG Cu	1 #10 AWG Cu	1 #10 AWG Cu
<b>3 phase no neutral</b>				
1600	5 @ 3"	3 #500 MCM Cu	(None)	1 #4/0 AWG Cu
1200	4 @ 2.5"	3 #350 MCM Cu	(None)	1 #3/0 AWG Cu
1000	3 @ 3"	3 #500 MCM Cu	(None)	1 #2/0 AWG Cu
800	2 @ 3"	3 #500 MCM Cu	(None)	1 #1/0 AWG Cu
700	2 @ 3"	3 #500 MCM Cu	(None)	1 #1/0 AWG Cu
600	2 @ 2.5"	3 #350 MCM Cu	(None)	1 #1 AWG Cu
500	2 @ 2.5"	3 #250 MCM Cu	(None)	1 #2 AWG Cu
450	2 @ 2"	3 #4/0 AWG Cu	(None)	1 #2 AWG Cu
400	1 @ 3"	3 #600 MCM Cu	(None)	1 #3 AWG Cu
350	1 @ 3"	3 #500 MCM Cu	(None)	1 #3 AWG Cu
300	1 @ 2.5"	3 #350 MCM Cu	(None)	1 #4 AWG Cu
250	1 @ 2"	3 #250 MCM Cu	(None)	1 #4 AWG Cu
225	1 @ 2"	3 #4/0 AWG Cu	(None)	1 #4 AWG Cu
200	1 @ 2"	3 #3/0 AWG Cu	(None)	1 #6 AWG Cu
175	1 @ 1.5"	3 #2/0 AWG Cu	(None)	1 #6 AWG Cu
150	1 @ 1.5"	3 #1/0 AWG Cu	(None)	1 #6 AWG Cu
125	1 @ 1.25"	3 #1 AWG Cu	(None)	1 #6 AWG Cu
110	1 @ 1.25"	3 #2 AWG Cu	(None)	1 #6 AWG Cu
100	1 @ 1.25"	3 #3 AWG Cu	(None)	1 #6 AWG Cu
90	1 @ 1.25"	3 #3 AWG Cu	(None)	1 #6 AWG Cu
80	1 @ 1"	3 #4 AWG Cu	(None)	1 #6 AWG Cu
70	1 @ 1"	3 #4 AWG Cu	(None)	1 #6 AWG Cu
60	1 @ 3/4"	3 #6 AWG Cu	(None)	1 #10 AWG Cu
50	1 @ 3/4"	3 #6 AWG Cu	(None)	1 #10 AWG Cu
40	1 @ 3/4"	3 #8 AWG Cu	(None)	1 #10 AWG Cu
30	1 @ 1/2"	3 #10 AWG Cu	(None)	1 #10 AWG Cu
20	1 @ 1/2"	3 #12 AWG Cu	(None)	1 #10 AWG Cu
<b>Single Phase no neutral</b>				
150S	1 @ 1.25"	2 #1/0 AWG Cu	(None)	1 #6 AWG Cu
125S	1 @ 1.25"	2 #1 AWG Cu	(None)	1 #6 AWG Cu
110S	1 @ 1"	2 #2 AWG Cu	(None)	1 #6 AWG Cu
100S	1 @ 1"	2 #3 AWG Cu	(None)	1 #6 AWG Cu
90S	1 @ 1"	2 #3 AWG Cu	(None)	1 #6 AWG Cu
80S	1 @ 1"	2 #4 AWG Cu	(None)	1 #6 AWG Cu
70S	1 @ 1"	2 #4 AWG Cu	(None)	1 #6 AWG Cu
60S	1 @ 3/4"	2 #6 AWG Cu	(None)	1 #10 AWG Cu
50S	1 @ 1/2"	2 #8 AWG Cu	(None)	1 #10 AWG Cu
40S	1 @ 1/2"	2 #8 AWG Cu	(None)	1 #10 AWG Cu
30S	1 @ 1/2"	2 #10 AWG Cu	(None)	1 #10 AWG Cu
<b>Grounding Conductor</b>				
250G	1 @ 1"	(None)	(None)	1 #250 MCM Cu
225G	1 @ 1"	(None)	(None)	1 #4/0 AWG Cu
200G	1 @ 1"	(None)	(None)	1 #3/0 AWG Cu
175G	1 @ 3/4"	(None)	(None)	1 #2/0 AWG Cu
150G	1 @ 3/4"	(None)	(None)	1 #1/0 AWG Cu
125G	1 @ 3/4"	(None)	(None)	1 #1 AWG Cu
110G	1 @ 1/2"	(None)	(None)	1 #2 AWG Cu
100G	1 @ 1/2"	(None)	(None)	1 #3 AWG Cu
90G	1 @ 1/2"	(None)	(None)	1 #3 AWG Cu
80G	1 @ 1/2"	(None)	(None)	1 #4 AWG Cu
70G	1 @ 1/2"	(None)	(None)	1 #4 AWG Cu
60G	1 @ 1/2"	(None)	(None)	1 #6 AWG Cu
50G	1 @ 1/2"	(None)	(None)	1 #6 AWG Cu
40G	1 @ 1/2"	(None)	(None)	1 #8 AWG Cu
30G	1 @ 1/2"	(None)	(None)	1 #10 AWG Cu
<b>Transformer Secondary Feeder</b>				
1000T	3 @ 3.5"	3 #500 MCM Cu	1 #500 MCM Cu	1 #3/0 AWG Cu
800T	2 @ 3.5"	3 #600 MCM Cu	1 #600 MCM Cu	1 #3/0 AWG Cu
700T	2 @ 3.5"	3 #500 MCM Cu	1 #500 MCM Cu	1 #2/0 AWG Cu
600T	2 @ 3"	3 #350 MCM Cu	1 #350 MCM Cu	1 #2/0 AWG Cu
500T	2 @ 2.5"	3 #250 MCM Cu	1 #250 MCM Cu	1 #2/0 AWG Cu
400T	1 @ 3.5"	3 #600 MCM Cu	1 #600 MCM Cu	1 #1/0 AWG Cu
250T	1 @ 3"	3 #250 MCM Cu	1 #250 MCM Cu	1 #2 AWG Cu
225T	1 @ 2.5"	3 #4/0 AWG Cu	1 #4/0 AWG Cu	1 #2 AWG Cu
150T	1 @ 2"	3 #1/0 AWG Cu	1 #1/0 AWG Cu	1 #6 AWG Cu
60T	1 @ 1"	3 #6 AWG Cu	1 #6 AWG Cu	1 #8 AWG Cu
<b>Imaging Feeders</b>				
*90X	1 @ 2.5"	3 #4/0 AWG Cu	1 #4/0 AWG Cu	1 #1/0 AWG Cu
*70X	1 @ 1.25"	3 #2 AWG Cu	1 #2 AWG Cu	1 #2 AWG Cu



**1 ONE-LINE DIAGRAM**  
E5.1 NOT TO SCALE

City of Puyallup  
Development & Permitting Services  
**ISSUED PERMIT**

- Building
- Engineering
- Fire
- Planning
- Public Works
- Traffic