

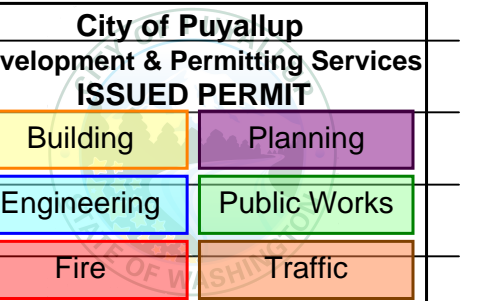
Carlile
Coatsworth
architects

18000 MacArthur Boulevard Suite 300
Irvine, California 92612
949.251.1330
www.ccarchitects.com



PROJECT NO. 24068
DATE: 05/20/2024
DRAWN BY: AL/LH/AC
SCALE: AS NOTED
FILE:
GROSS AREA 6,719 S.F.

REVISIONS:



SHEET TITLE:
GENERAL NOTES

SHOE PALACE
SOUTH HILL MALL
SPACE 410 & 420
3500 S MERIDIAN
PUYALLUP, WA 98373

PRCTI20240836

G001

- ALL BIDS ARE PER PLANS AND SPECIFICATIONS FOR A COMPLETE SCOPE OF WORK. NO EXCLUSIONS FROM THE PLANS ARE PERMITTED. ANY EXCLUSIONS ARE REJECTED AND ASSUMED AS PART OF THE SCOPE PROVIDED THEY ARE IN THE PLANS AND SPECIFICATIONS.
- IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN THE CONSTRUCTION RULES, REGULATIONS AND REQUIRED CONTRACTORS FROM THE LANDLORD. ALL COSTS ASSOCIATED WITH THESE ARE TO BE INCLUDED IN YOUR BID.
- ALTHOUGH NOT MANDATORY, A SITE VISIT IS RECOMMENDED. MISSED BID ITEMS THAT WOULD BE CLEAR DURING A SITE VISIT WILL NOT BE ACCEPTED AS A CHANGE ORDER.
- NO ALLOWANCES ARE PERMITTED IN YOUR BID UNLESS APPROVED IN WRITING. IF AN ALLOWANCE IS PRESENT ON THE BID FORM IT WILL BE ACCEPTED AS THE FULL AND COMPLETE COST TO COMPLETE THE WORK. NO CHANGE ORDERS WILL BE ACCEPTED.
- IT IS ENCOURAGED TO VALUE ENGINEER THE PROJECT AND THIS SHOULD BE PRESENTED AS AN ALTERNATE ONLY. ALL BIDS ARE TO BE PER PLANS.
- THE SALES FLOOR IS TO BE COMPLETED BY THE SUBSTANTIAL COMPLETION DATE ON YOUR CONTRACT WHICH IS AT SIX WEEKS IN MOST CASES. SALES FLOOR COMPLETED IS DEFINED AS ALL WALL AND CEILING FINISHES, HVAC, FLOORING, DRYWALL, STOREFRONT, BLOCKING, CEILING PAINT, ELECTRICAL IN WALLS TRIMMED OUT, LIGHTS HUNG AND FUNCTIONAL. ALL ITEMS COMPLETED AND READY FOR MILLWORK INSTALLER.
- ALL STORES TURN OVER TO OPERATIONS ON A MONDAY AT 7AM AND INVENTORY ARRIVES THAT MORNING. YOUR FINAL COMPLETION DATE IS THE FRIDAY PRIOR. THIS DATE ALL PUNCH ITEMS SHOULD BE COMPLETED AND A CERTIFICATE OF OCCUPANCY ACHIEVED THE PRIOR WEEK.
- GC IS RESPONSIBLE FOR ALL COMMUNICATION AND MANAGEMENT WITH OWNERS DIRECT SUBS.
- GC IS RESPONSIBLE FOR HAVING A FORKLIFT ON SITE TO RECEIVE, INVENTORY AND UNLOAD ALL OWNER SUPPLIED ITEMS. DO NOT REQUEST A LIFT GATE FROM THE TRUCKING COMPANY.
- OWNER SUPPLIED MATERIALS ARE NOT TO BE RESCHEDULED OR TURNED AWAY WITHOUT APPROVAL FROM SHOE PALACE IN WRITING.
- ALL FIRE ALARM PLANS AND SPRINKLER PLANS ARE TO BE SUBMITTED TO THE CITY WITH 7 BUSINESS DAYS OF COMMENCEMENT.
- GC IS RESPONSIBLE FOR ANY THIRD PARTY INSPECTIONS THAT MAY BE REQUIRED.
- GC IS RESPONSIBLE FOR ANCHORING STOCK ROOM SHELVING. SHELVES BY SP, ANCHORS BY GC. THIRD PARTY INSPECTION BY GC AT GC COST.
- GC TO SUPPLY AND INSTALL THREE SHELVES AT STOCKROOM VESTIBULE FOR AUDIO AND CAMERA EQUIPMENT.
- SHOE PALACE TO SUPPLY ALL LIGHT FIXTURES AND EMERGENCY LIGHTS. ALL GEAR, CONDUIT, WIRING ETC. BY GC.
- SHOE PLACE TO SUPPLY ALL FLOORING.
- SITE IS TO BE SECURED AT ALL TIMES.
- NO EATING OR SMOKING IS PERMITTED ON THE JOBSITE AT ANY TIME.
- THE JOBSITE GC IS TO PROVIDE THE COST OF THE BARRICADE AS AN ALTERNATE. INCLUDE THE COST OF THE GRAPHIC.
- GC TO INVENTORY ALL OWNER SUPPLIED MATERIAL AND REPORT ANY ISSUES WITHIN 24 HOURS. ISSUES OTHER THAN CONCEALED DAMAGES, WILL BECOME THE COST RESPONSIBILITY OF THE GC IF NOT REPORTED WITHIN 24 HOURS OF RECEIPT.
- ALL EXISTING CEILING OBSTRUCTIONS, PIPE, DUCT, ETC ARE TO BE BROUGHT ABOVE 12' TO ENSURE CLEARANCES FOR NEW LIGHTS, DUCT AND MILLWORK.
- HVAC UNITS ARE TO BE SUPPLIED AND INSTALLED BY GC - HVAC UNITS TO BE PURCHASED UNDER NATIONAL ACCOUNTS WHERE POSSIBLE - FOR CARRIER MARY BETH KOWALSKI 315-432-7054 MARYBETH.KOZLOWSKI@CARRIER.UTC.COM- HVAC UNITS ARE TO BE ORDER ON OR BEFORE DAY ONE OF THE PROJECT. IF LEAD TIMES ARE LONGER THAN PROJECT REQUIREMENTS, GC IS TO SUPPLY IMMEDIATE ALTERNATES TO ENSURE PROJECT COMPLETION.
- STORE SHOULD BE FINAL CLEANED IN TIME FOR PUNCH AND THEN A MINOR "FLUFF" BEFORE OPERATIONS TAKES OVER.
- GC TO INCLUDE THREE DUMPSTERS FOR MILLWORK.
- PROVIDE A DETAILED SCHEDULE ONCE AWARDED WITH ORDER AND SHIP DATES FOR GC SUPPLIED MATERIALS.
- THIS PROJECT SCOPE HAS BOTH INTERIOR AND EXTERIOR WORK. PATCHING OF WALLS AFTER BARRICADE REMOVAL IF BY GC.
- GC SUPER MUST HAVE THE ABILITY TO EMAIL, SCAN, AND PRINT DOCUMENTS FROM SITE.
- WORKING DWGS ON SITE MUST BE ACCESSIBLE AT ANYTIME TO ALL TRADES
- APPROVED PROJECT SCHEDULE TO BE POSTED ON SITE.
- JOB SITE MUST BE 100% CLEANED UP AND SECURED DAILY.
- GC SUPER TO REMAIN ON SITE THROUGH PUNCH LIST COMPLETION, RECEIPT OF CERTIFICATE OF OCCUPANCY, OR THROUGH THE FRIDAY AFTER CONSTRUCTION FINAL WHICH EVER IS LONGEST.
- GC TO PROVIDE THE APPROPRIATE EQUIPMENT AND MANPOWER FOR THE RECEIVING AND INVENTORYING OF ALL OSMS (AND IT'S DIRECT CONTRACTOR'S) MATERIALS, FIXTURES, AND GRAPHICS FROM THE CONSTRUCTION START DATE THROUGH COMPLETION.
- ALL MATERIALS ARE TO BE PROVIDED, RECEIVED, INSTALLED, AND CONNECTED BY GC UNLESS NOTED OTHERWISE. IF CONTRADICTIONS IN SCOPE RESPONSIBILITY ARE STATED IN THE DWGS, THEN IT IS GC SCOPE.
- ALL SUBSTITUTES FOR REQUIRED EQUIPMENT OR MATERIALS SPECIFIED ON THE DWGS NEED TO BE PRE-APPROVED.
- GC SUPER IS RESPONSIBLE FOR THE COORDINATION, AND COMPLETION OF SCOPE FOR ALL OWNER DIRECT CONTRACTORS THROUGH PROJECT COMPLETION.
- THE GC IS RESPONSIBLE FOR ANY AND ALL SIGNAGE REQUIRED BY THE LOCAL MUNICIPALITY INCLUDING FIRE EXTINGUISHER SIGNAGE OR HAZARD MATERIAL SIGNAGE OR STICKERS.
- FLOOR PROTECTION ON ALL JOBS BY GC. (RAMBOARD)
- REQUIRED ROLLING GATE VENDOR IS ALUMATEC.
- PLEASE PLACE ALL RFIS, CHANGE ORDERS AND PAY APPLICATIONS ON THE SHOE PALACE FORM.
- ALL SALES FLOOR LIGHTING TO BE HUNG BY AIRCRAFT CABLE
- GC TO PROVIDE ALL SURFACE WALL BLOCKING FOR MILLWORK.
- BARRICADE REMOVAL BY GC.
- GC TO PROVIDE PICTURES BY 2PM CENTRAL STANDARD TIME EVERY FRIDAY FROM COMMENCEMENT TO PROJECT FINAL COMPLETION. FAILURE TO PROVIDE WILL RESULT IN A \$150 PER DAY PENALTY UNTIL RECEIVED.

ITEM NO.	PRODUCT NAME	DESCRIPTION	MODEL NO.	FIXT. COUNT/ FLOOR AREA SQ. FT.	SHOE PALACE INSPECTOR	CONTR. INSPECTOR
SHOWROOM						
1	1'X4' FLAT PANEL LED FLUSH MOUNT		REFER TO ELECTRICAL	3		
2	8'-0" LED LIGHT		REFER TO ELECTRICAL	40		
3	SHOWROOM AUDIO SPEAKERS	BOOKSHELF BOX SPEAKERS	SONY SS-B3000	6 (3 PAIRS)		
STOCK ROOM						
4	6" RECESSED CAN LIGHT (LT4)		REFER TO ELECTRICAL	7		
5	2'X2' TROFFER LIGHT		REFER TO ELECTRICAL	35		
6	TRACK HEADS		REFER TO ELECTRICAL	36		
7	STOCK ROOM SHELVING (PERIMETER)	STOCKROOM SHELVING BY WESTERN SHELVING & RACK		179 LF		
8	STOCK ROOM SHELVING (CENTER)	STOCKROOM SHELVING BY WESTERN SHELVING & RACK		181 LF		
MISCELLANEOUS (SP TO PROVIDE & TGC TO INSTALL PER PLAN)						
9	ILLUMINATED EXIT SIGN		REFER TO ELECTRICAL	5		
10	RGB CONTROLLER	RGB CONTROLLER INSIDE RGB BOX		1		
11	STORE TRAFFIC SENSOR	PERCOLATA	FUSION 100 SENSOR	1		
FLOOR / WALL TILE						
12	24x48 SHOWROOM TILE-GRAY	T1 - SEE FINISH PLAN		4,206 SF		
EQUIPMENT						
13	REAR DOOR LIFT BAR	SECURITY BAR FOR REAR DOOR		1		
14	STEREO RECVR. SYS.	STEREO RECEIVER SYSTEM (SP PROVIDED & INSTALLED)		1		
15	CD/DVD PLAYER	CD/DVD PLAYER (SP PROVIDED & INSTALLED)		1		
16	SAFE			1		
17	FORK LIFT	TGC TO SUPPLY AS NEEDED				

NOTE: REFER TO THE RESPONSIBILITY SCHEDULE ON SHEET A000 FOR ADDITIONAL ITEMS

MATERIAL CHECKLIST

&	AND	INT.	INTERIOR
@	AT	JAN.	JANITOR
Ø	CENTERLINE	JOINT	JOINT
O	DIAMETER OR ROUND	KIT.	KITCHEN
#	POUND OR NUMBER	LAB.	LABORATORY
ACOUS.	ACOUSTICAL	LAM.	LAMINATE
A.D.	AREA DRAIN	LAV.	LAVATORY
ADJ.	ADJUSTABLE	LKR.	LOOKER
AGGR.	AGGREGATE	LT.	LIGHT
AL.	ALUMINUM	MAX.	MAXIMUM
APPROX.	APPROXIMATE	M.C.	MEDICINE CABINET
ARCH.	ARCHITECTURAL	MECH.	MECHANICAL
ASPH.	ASPHALT	MEMB.	MEMBRANE
A.V.	AUDIO / VISUAL	MET.	METAL
BD	BOARD	MFR.	MANUFACTURER
BITUM.	BITUMINOUS	MH.	MANHOLE
BLDG.	BUILDING	MIN.	MINIMUM
BLK.	BLOCK	MIR.	MIRROR
BLK'G	BLOCKING	MISC.	MISCELLANEOUS
BM	BENCH MARK	M.O.	MASONRY OPENING
BOT.	BOTTOM	MTD.	MOUNTED
CAB.	CABINET	MUL.	MULLION
C.B.	CATCH BASIN	N.	NORTH
CEM.	CEMENT	N.I.C.	NOT IN CONTRACT
CER.	CERAMIC	NO.	NUMBER
C.G.	CORNER GUARD	NOM.	NOMINAL
C.I.	CAST IRON	N.T.S.	NOT TO SCALE
CLG.	CEILING	O.A.	OVERALL
CLJK'G	CAULKING	OBS.	OBSOLETE
CLO.	CLOSET	O.C.	ON CENTER
CLR.	CLEAR	O.D.	OUTSIDE DIAMETER (DIM.)
COL.	COLUMN	O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED
CONG.	CONCRETE	O.F.O.I.	OWNER FURNISHED CONTRACTOR INSTALLED
CONN.	CONNECTION	OFF.	OFFICE
C.F.C.I.	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	OPNG.	OPENING
C.F.O.I.	CONTRACTOR FURNISHED OWNER INSTALLED	OPP.	OPPOSITE
CONSTR.	CONSTRUCTION	PRCST.	PRECAST
CONT.	CONTINUOUS	PL.	PLATE
CORR.	CORRIDOR	P. LAM.	PLASTIC LAMINATE
CPT.	CARPET	PLAS.	PLASTER
C.R.	CRASH ROLL AND COLD-ROLLED	PLYWD.	PLYWOOD
CTSK.	COUNTERSUNK	PR.	PAIR
CNTR.	COUNTER	PT.	PAINT
CTER.	CENTER	P.T.D.	PAPER TOWEL DISPENSER
CT.	CERAMIC TILE	P.T.O.R.	COMBINATION PAPER TOWEL DISPENSER AND RECEPTACLE
DBL.	DOUBLE	PTN.	PARTITION
DEPT.	DEPARTMENT	P.T.R.	PAPER TOWEL RECEPTACLE
D.F.	DRINKING FOUNTAIN	Q.T.	QUARRY TILE
DET.	DETAIL	R.	RISER
DIA.	DIAMETER	RAD.	RADIUS
DIM.	DIMENSION	R.D.	ROOF DRAIN
DISP.	DISPENSER	REF.	REFERENCE
DN	DOWN	REFR.	REFRIGERATOR
D.O.	DOOR OPENING	RSTR.	REGISTER
DR.	DOOR	REINF.	REINFORCED
DS.	DOWNSPOUT	REQ.	REQUIRED
D.S.P.	DRY STANDPIPE	RESIL.	RESILIENT
DWG.	DRAWING	RM.	ROOM
DWR.	DRAWER	R.O.	ROUGH OPENING
E.	EACH	RWD.	REDWOOD
E.A.	EAST	R.W.L.	RAIN WATER LEADER
E.J.	EXPANSION JOINT	S.	SOUTH
EL.	ELEVATION	S.C.	SOLID CORE
ELEC.	ELECTRIC	S.C.D.	SEAT COVER DISPENSER
EMER.	EMERGENCY	SCHED.	SCHEDULE
ENCL.	ENCLOSURE	SD.	SOAP DISPENSER
E.P.	ELECTRICAL PANELBOARD	SECT.	SECTION
E.P.D.M.	SINGLE PLY ROOF MEMBRANE	SH.	SHelf
EQAL.	EQUAL	SHR.	SHOWER
EQUIP.	EQUIPMENT	SHT.	SHEET
E.W.C.	ELECTRIC WATER COOLER	SIM.	SIMILAR
EXST.	EXISTING	S.N.D.	SANITARY NAPKIN DISPENSER
EXPO.	EXPOSED	SPEC.	SPECIFICATION
EXP.	EXPANSION	SQ.	SQUARE
EXT.	EXTERIOR	SST.	STAINLESS STEEL
F.A.	FIRE ALARM	S SK	SERVICE SINK
F.B.	FLAT BAR	STA.	STATION
F.D.	FLOOR DRAIN	STD.	STANDARD
FDN.	FOUNDATION	STL.	STEEL
F.E.	FIRE EXTINGUISHER	STOR.	STORAGE
F.E.C.	FIRE EXTINGUISHER CAB.	STRL.	STRUCTURAL
F.H.C.	FIRE HOSE CABINET	SUSP.	SUSPENDED
FIN.	FINISH	SYM.	SYMMETRICAL
FLR.	FLOOR	TRD.	TREAD
FLASH.	FLASHING	T.B.	TOWEL BAR
FLUOR.	FLUORESCENT	TEL.	TELEPHONE
F.O.C.	FACE OF CONCRETE	T.E.R.	TELEPHONE EQUIPMENT ROOM
F.O.F.	FACE OF FINISH	T & G	TONGUE AND GROOVE
F.O.S.	FACE OF STUDS	THK.	THICK
FPRF.	FULL SIZE	T.O.C.	TOP OF CURB
FT.	FOOT OR FEET	T.P.	TOP OF PAVEMENT
FTG.	FOOTING	T.O.W.	TOP OF WALL
FURR.	FURRING	T.V.	TELEVISION
FUT.	FUTURE	TYP.	TYPICAL
GA.	GUAGE	UNFIN.	UNFINISHED
GALV.	GALVANIZED	UNO.	UNLESS NOTED OTHERWISE
G.B.	GRAB BAR	UR.	URNAL
GL.	GLASS	VAR.	VARIES
GND.	GROUND	V.B.	VAPOR BARRIER
GR.	GRADE	V.C.G.	VINYL CORNER GUARD
GYP.	GYPSUM	VERT.	VERTICAL
H.B.	HOSE BIB	VEST.	VESTIBULE
H.C.	HOLLOW CORE	V.T.	VINYL TILE
HDWD.	HARDWOOD	W.	WEST
HDWE.	HARDWARE	W/	WITH
H.M.	HOLLOW METAL	W.C.	WATER CLOSET
HORIZ.	HORIZONTAL	WD.	WOOD
HR.	HEIGHT	W/O	WITHOUT
HGT.	HEIGHT	WP.	WATERPROOF
I.D.	INSIDE DIAMETER (DIM.)	WSC.	WAINSCOT
INSUL.	INSULATION	WT.	WEIGHT

SYMBOLS LEGEND

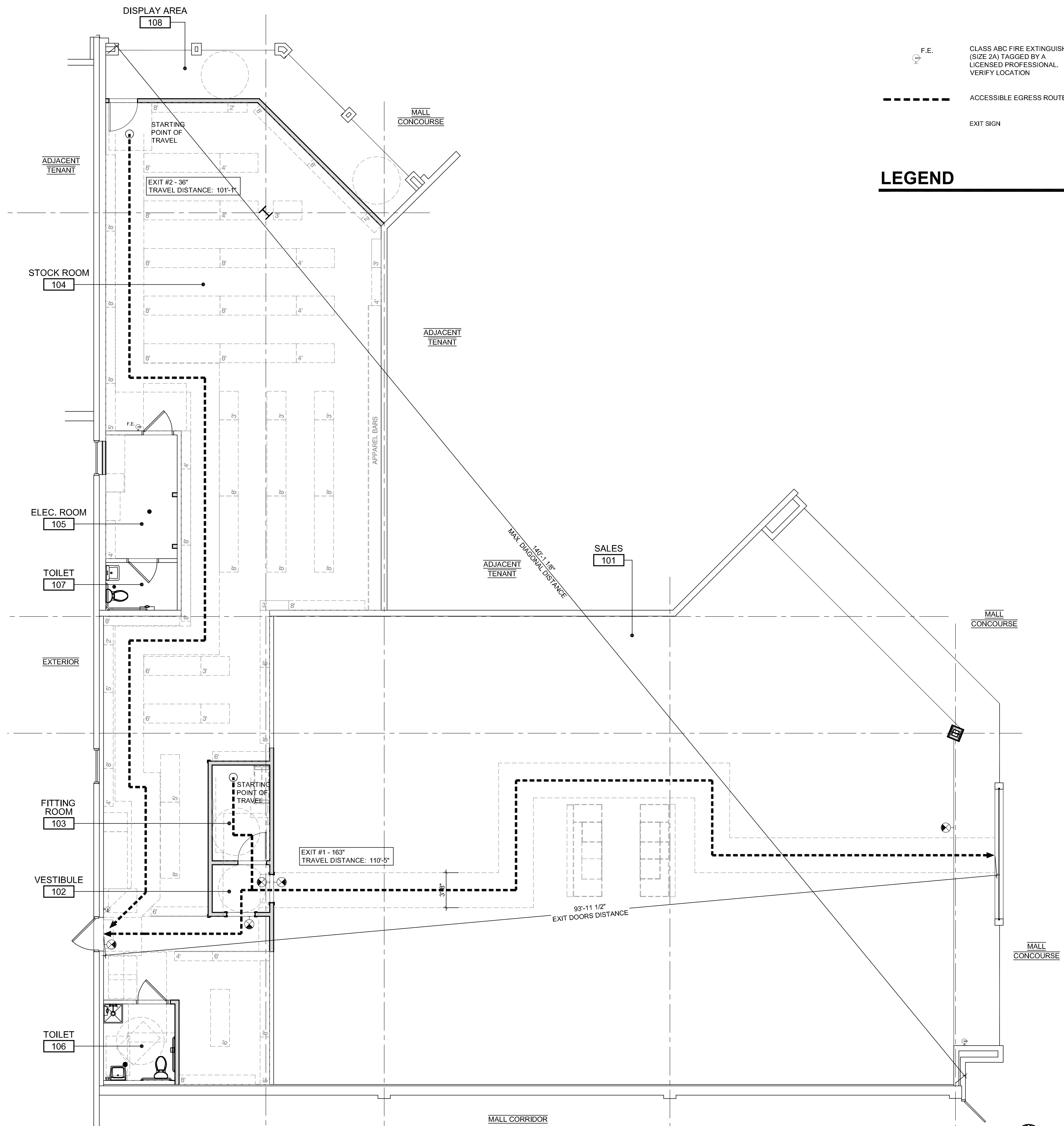
	FINISH WOOD
	BLOCKING
	ROUGH WOOD
	BATT INSULATION
	RIGID INSULATION
	EARTH
	CONCRETE
	MASONRY
	METAL
	PLYWOOD

MATERIALS

ABBREVIATIONS

BID CONSTRUCTION

MATERIAL CHECKLIST

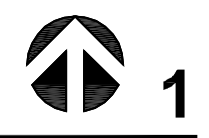


- F.E. CLASS ABC FIRE EXTINGUISHER (SIZE 2A) TAGGED BY A LICENSED PROFESSIONAL. VERIFY LOCATION
- ACCESSIBLE EGRESS ROUTE
- EXIT SIGN

LEGEND

LIFE SAFETY PLAN

SCALE: 3/16" = 1'-0"



Carlile
Coatsworth
architects
18000 MacArthur Boulevard Suite 300
Irvine, California 92612
949.833.1030
www.ccarchitects.com

6146 REGISTERED ARCHITECT
CALVIN JOHN COATSWORTH
STATE OF WASHINGTON

PROJECT NO.	24068
DATE:	05/20/2024
DRAWN BY:	AL/LH/AC
SCALE:	AS NOTED
FILE:	
GROSS AREA	6,719 S.F.

REVISIONS:

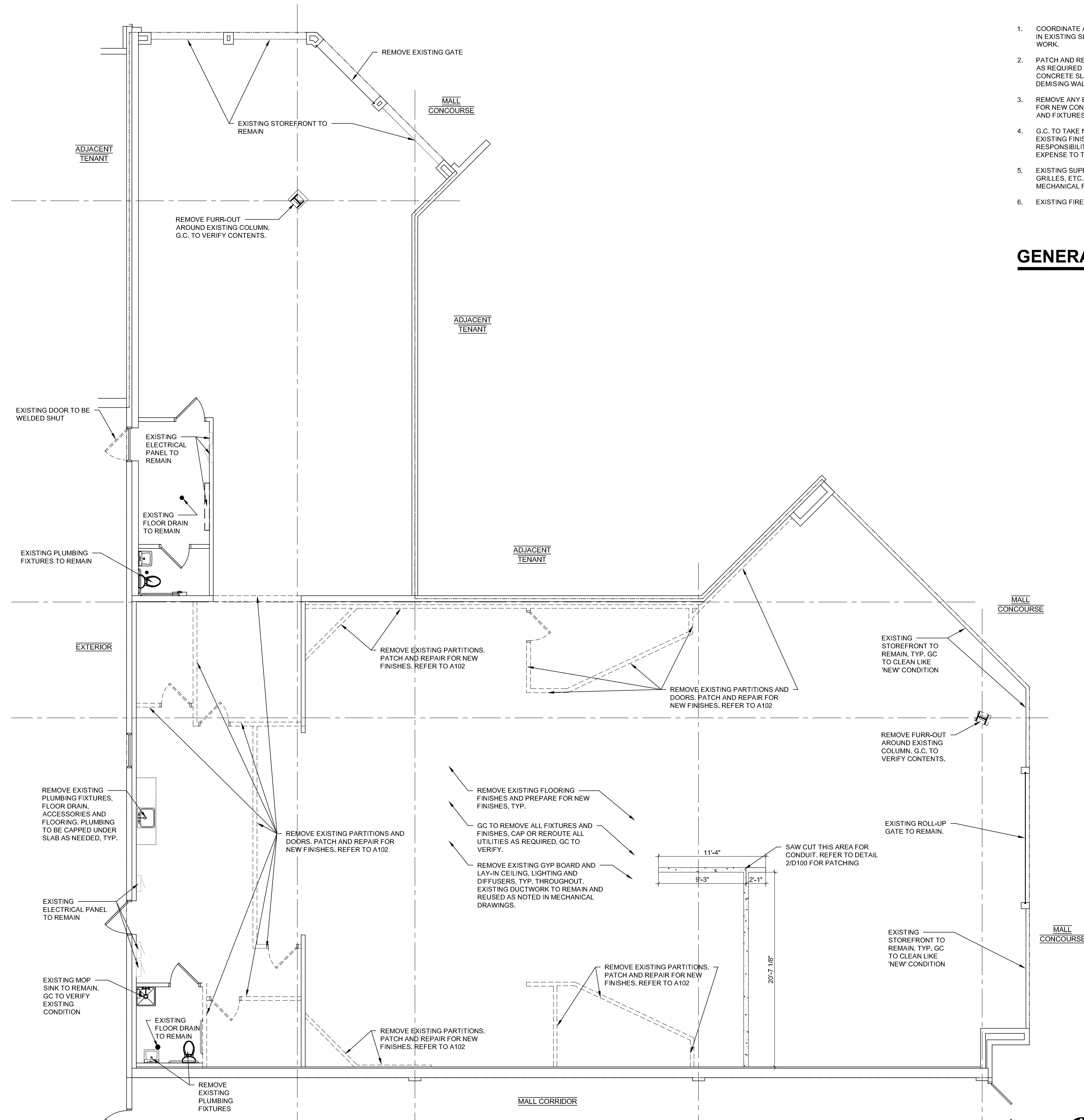
City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

SHEET TITLE:
LIFE SAFETY PLAN

SHOE PALACE
SOUTH HILL MALL
SPACE 410 & 420
3500 S MERIDIAN
PUYALLUP, WA 98373

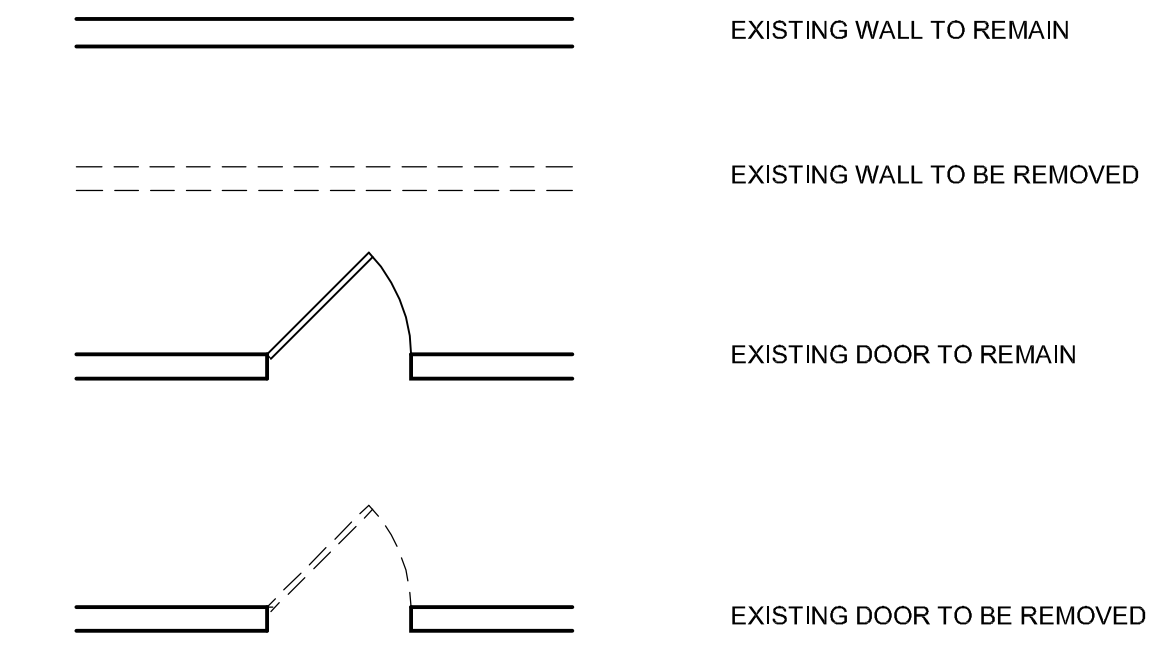
PRCTI20240836

A001

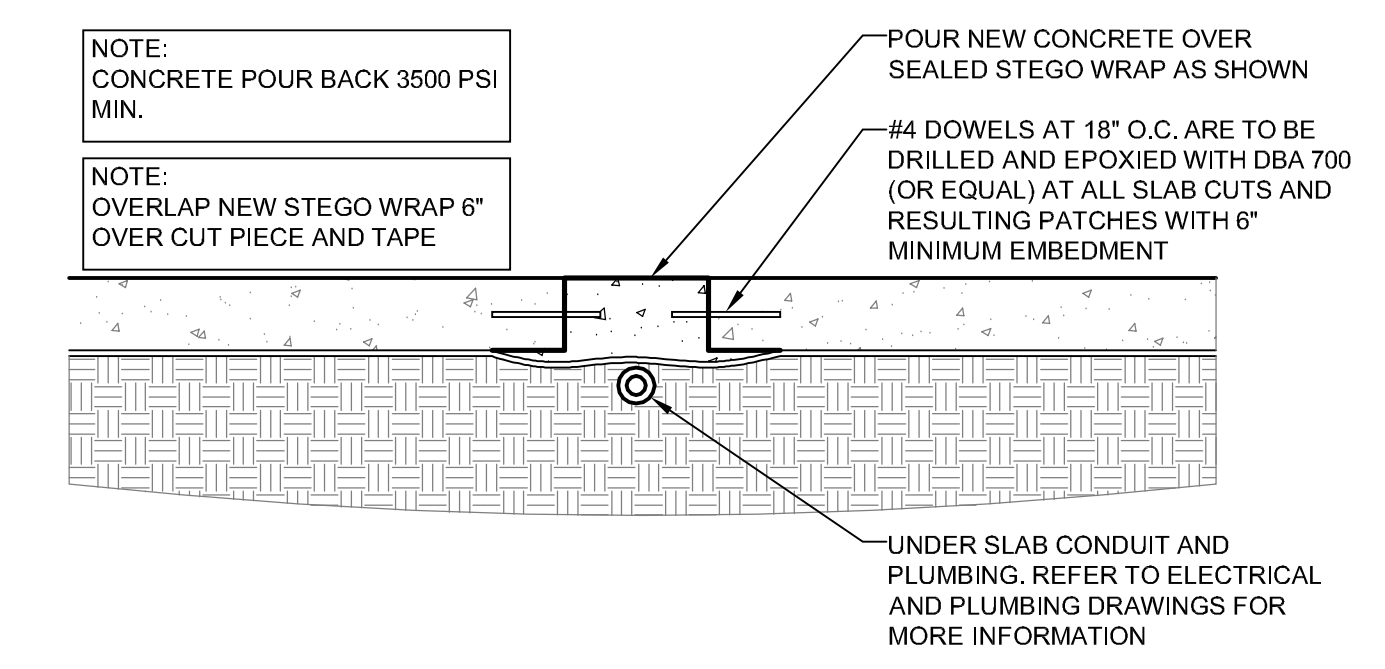


- COORDINATE ALL REQUIRED CORE BORING OR TRENCHING IN EXISTING SLAB WITH LANDLORD PRIOR TO COMMENCING WORK.
- PATCH AND REPAIR CONCRETE SLAB AND DEMISING WALLS AS REQUIRED FOR PAINTING. PATCH DIVOTS AND HOLES IN CONCRETE SLAB. G.C. TO MAINTAIN REQUIRED RATINGS AT DEMISING WALLS.
- REMOVE ANY EXISTING PARTITIONS AS SHOWN OR NEEDED FOR NEW CONSTRUCTION. REMOVE EXISTING FURNISHINGS AND FIXTURES UNLESS NOTED OTHERWISE.
- G.C. TO TAKE NECESSARY PRECAUTION TO PROTECT EXISTING FINISHES. ANY DAMAGE INCURRED WILL BE THE RESPONSIBILITY OF THE G.C. TO REPAIR / REPLACE AT NO EXPENSE TO THE TENANT OR LANDLORD.
- EXISTING SUPPLY GRILLES, HVAC DUCT WORK, RETURN AIR GRILLES, ETC. TO REMAIN U.N.O. TYP. REFER TO MECHANICAL FOR DUCTING TO BE REMOVED.
- EXISTING FIRE SPRINKLER SYSTEM TO REMAIN.
- THE EXISTING FIRE ALARM SYSTEM IS TO BE REMAIN. THE G.C. IS RESPONSIBLE FOR PROTECTING THE SYSTEM DURING CONSTRUCTION. DAMAGE TO THE FIRE ALARM SYSTEM DUE TO INADVERTENT DEMOLITION OR AS A RESULT OF THE NEW CONSTRUCTION WILL BE THE RESPONSIBILITY OF THE G.C. ANY TESTING OR INSPECTIONS OF THE FIRE ALARM SYSTEM AS A RESULT OF THIS WORK WILL BE THE RESPONSIBILITY OF THE G.C. COORDINATE WITH RETAIL CENTER MANAGEMENT.
- REMOVE ALL EXISTING FLOOR FINISHES IN THEIR ENTIRETY. REMOVE ALL THIN SET, GROUT, ADHESIVES ETC. SAND CONCRETE FINISH SMOOTH AND PREPARE CONCRETE FOR NEW FLOOR FINISHES AS SCHEDULED.
- REMOVE EXISTING TILE/CARPET/VCT FLOOR FINISH, ADHESIVES AND ANY PROTRUDING ELEMENTS, UNLESS OTHERWISE NOTED. FILL UNEVEN AREAS. PROVIDE LEVELING CONCRETE WHERE REQUIRED, GRIND SMOOTH. PREP FLOOR AS REQUIRED FOR INSTALLATION OF NEW FLOORING, TYP. THROUGHOUT
- REMOVE EXISTING SALES AREA DISPLAY FIXTURES/ASSEMBLIES INCLUDING ALL ASSOCIATED WIRING, ETC. PATCH AND REPAIR ADJACENT SURFACE AND PREPARE TO RECEIVE NEW FINISHES, TYP.

GENERAL DEMOLITION NOTES



DEMOLITION LEGEND



FLOOR SLAB PATCH DETAIL

SCALE: 3/4" = 1'-0"

2



PROJECT NO. 24068
 DATE: 05/20/2024
 DRAWN BY: AL/LH/AC
 SCALE: AS NOTED
 FILE:
 GROSS AREA 6,719 S.F.

REVISIONS:

City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

SHEET TITLE:
DEMOLITION PLAN

SHOE PALACE
 SOUTH HILL MALL
 SPACE 410 & 420
 3500 S MERIDIAN
 PUYALLUP, WA 98373

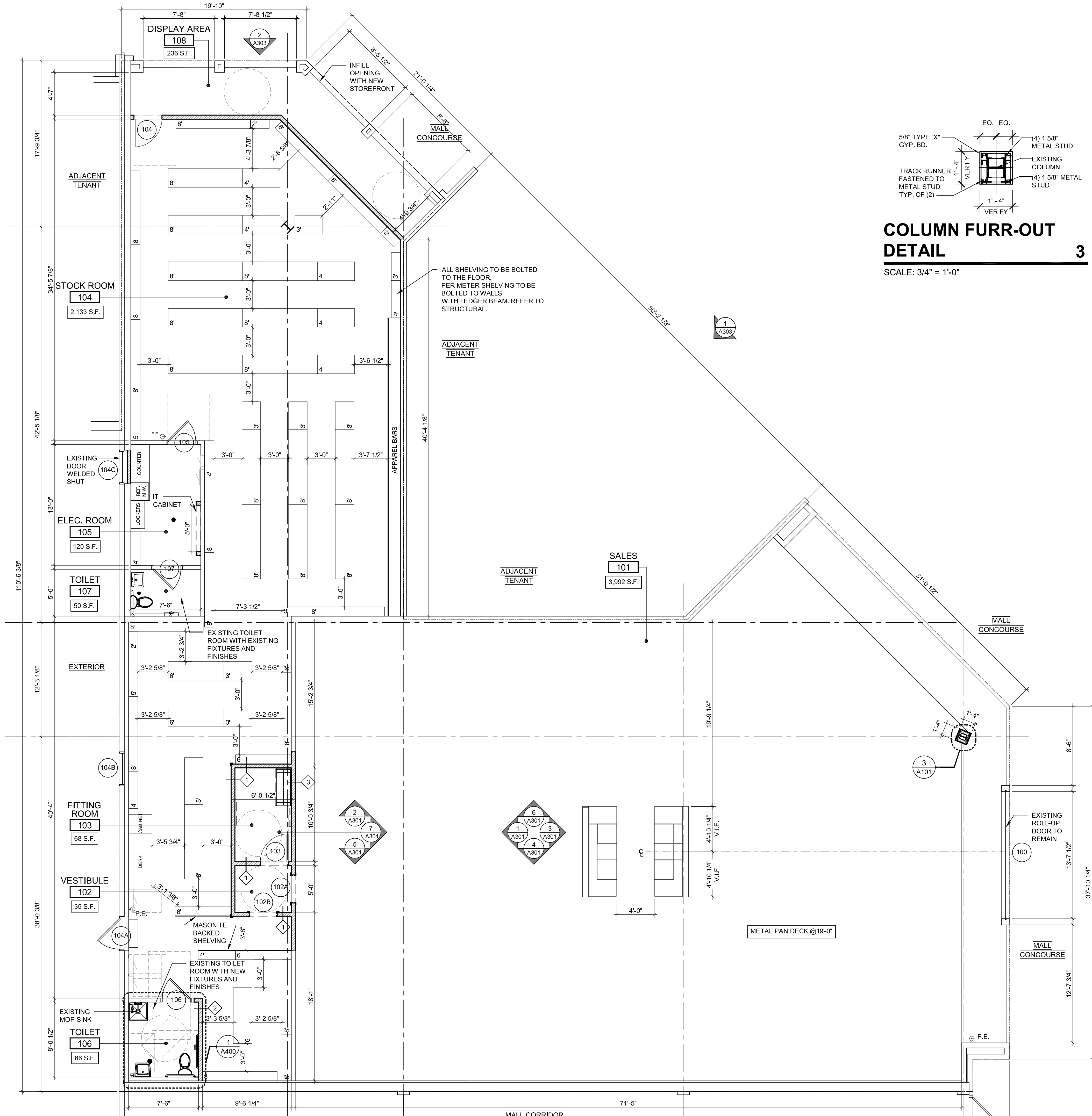
PRCTI20240836

D100

DEMOLITION PLAN

SCALE: 3/16" = 1'-0"



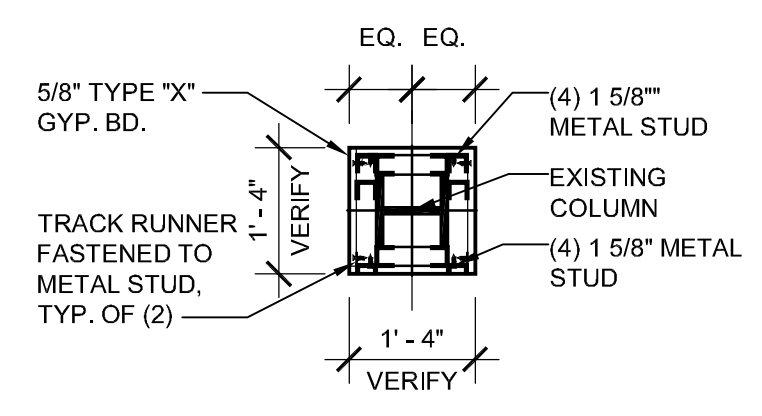


FLOOR PLAN

SCALE: 3/16" = 1'-0"

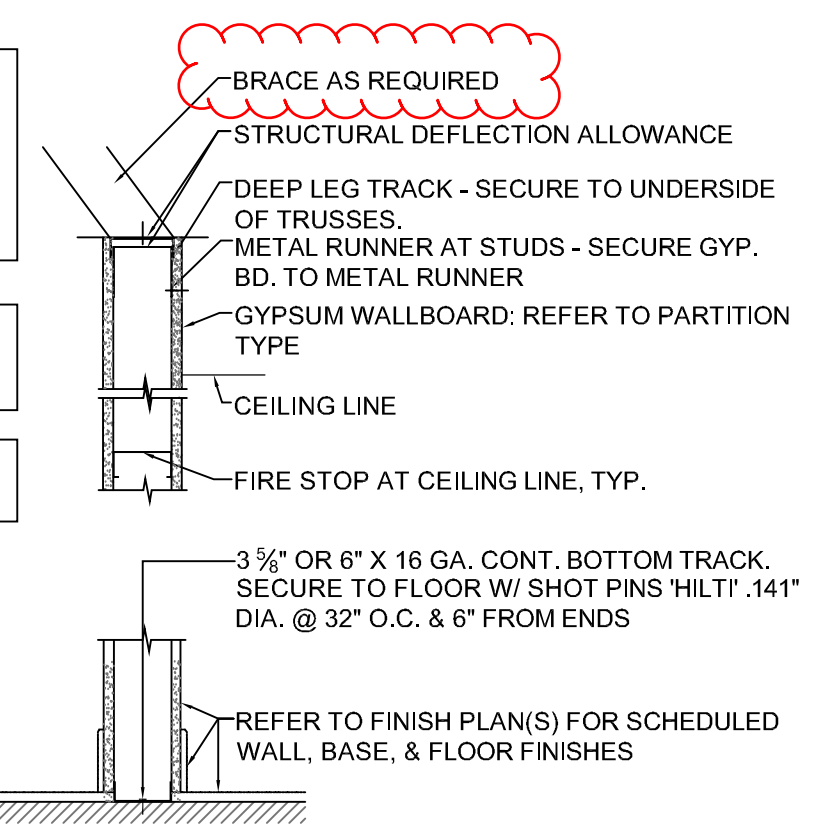
COLUMN FURR-OUT DETAIL

SCALE: 3/4" = 1'-0"

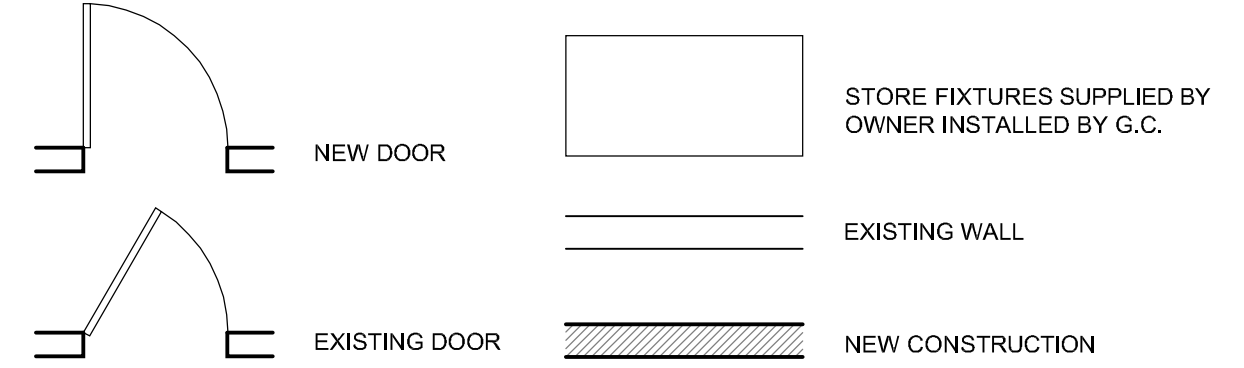


TYPICAL WALL DETAIL

SCALE: 1" = 1'-0"



TAG	DESCRIPTION
A	EXISTING INTERIOR MTL STUD DEMISING WALL - 1 HR. RATED, V.I.F. (E) GYP BD TO UNDERSIDE OF DECK AT INTERIOR. TGC TO V.I.F. & PROVIDE (N) GYP AND TGC TO MAINTAIN FIRE RATING AS REQUIRED.
1	PARTITION - 3-5/8" 20 GA. METAL STUDS AT 16" O.C. WITH 1 LAYER OF 5/8" GYP. BD. EA. EXPOSED SIDE FROM EXISTING SUB FLOOR TO DECK (SEE RCP, SHEET A2.0). TGC TO PROVIDE & INSTALL FIRE RATED WOOD BLOCKING AS REQUIRED.
2	PARTITION - 3-5/8" 20 GA. METAL STUDS AT 16" O.C. WITH 1 LAYER 5/8" W.R. GYP. ON WET SIDE. SIDE FROM EXISTING SUB FLOOR TO DECK (SEE RCP, SHEET A2.0). TGC TO PROVIDE & INSTALL FIRE RATED WOOD BLOCKING AS REQUIRED.
3	PARTITION - 6" 20 GA. METAL STUDS AT 16" O.C. WITH 1 LAYER 5/8" GYP. ON EA. SIDE FROM EXISTING SUB FLOOR TO UNDERSIDE OF DECK. EXTEND METAL STUDS AND SECURE TO B.O. DECK. TGC TO PROVIDE & INSTALL FIRE RATED WOOD BLOCKING AS REQUIRED.



LEGEND

- ALL WOOD USED FOR BLOCKING OR FRAMING IS TO BE FIRE-RETARDANT TREATED.
- CONTRACTOR IS TO PROVIDE FIRE EXTINGUISHERS AS DIRECTED BY THE FIRE MARSHAL AT THE TIME OF FINAL INSPECTION.
- ALL HARDWARE SHALL BE LEVER TYPE DESIGN. ALL CLOSERS SHALL BE FULLY ADJUSTABLE. ALL HARDWARE, THRESHOLDS, ETC. SHALL CONFIRM WITH ADAAG AND ALL APPLICABLE CODES.
- ALL NEW DOORS, JAMBS AT HINGE SIDE SHALL BE SET 4" FROM ADJACENT WALL UNLESS AVAILABLE WALL SPACE REQUIRES OTHERWISE.
- DIMENSIONS ARE TO FINISHED WALL. CONFIRM ALL MEASUREMENTS.

DRAWING NOTES

Carlie Coatsworth architects
 18000 MacArthur Boulevard Suite 300
 Irvine, California 92612
 949.831.1030
 www.carliearchitects.com

6146 REGISTERED ARCHITECT
CALVIN JOHN COATSWORTH
 STATE OF WASHINGTON

PROJECT NO. 24068
 DATE: 05/20/2024
 DRAWN BY: AL/LH/JAC
 SCALE: AS NOTED
 FILE:
 GROSS AREA 6,719 S.F.

REVISIONS:

City of Puyallup
 Development & Permitting Services
ISSUED PERMIT
 Building Planning
 Engineering Public Works
 Fire Traffic

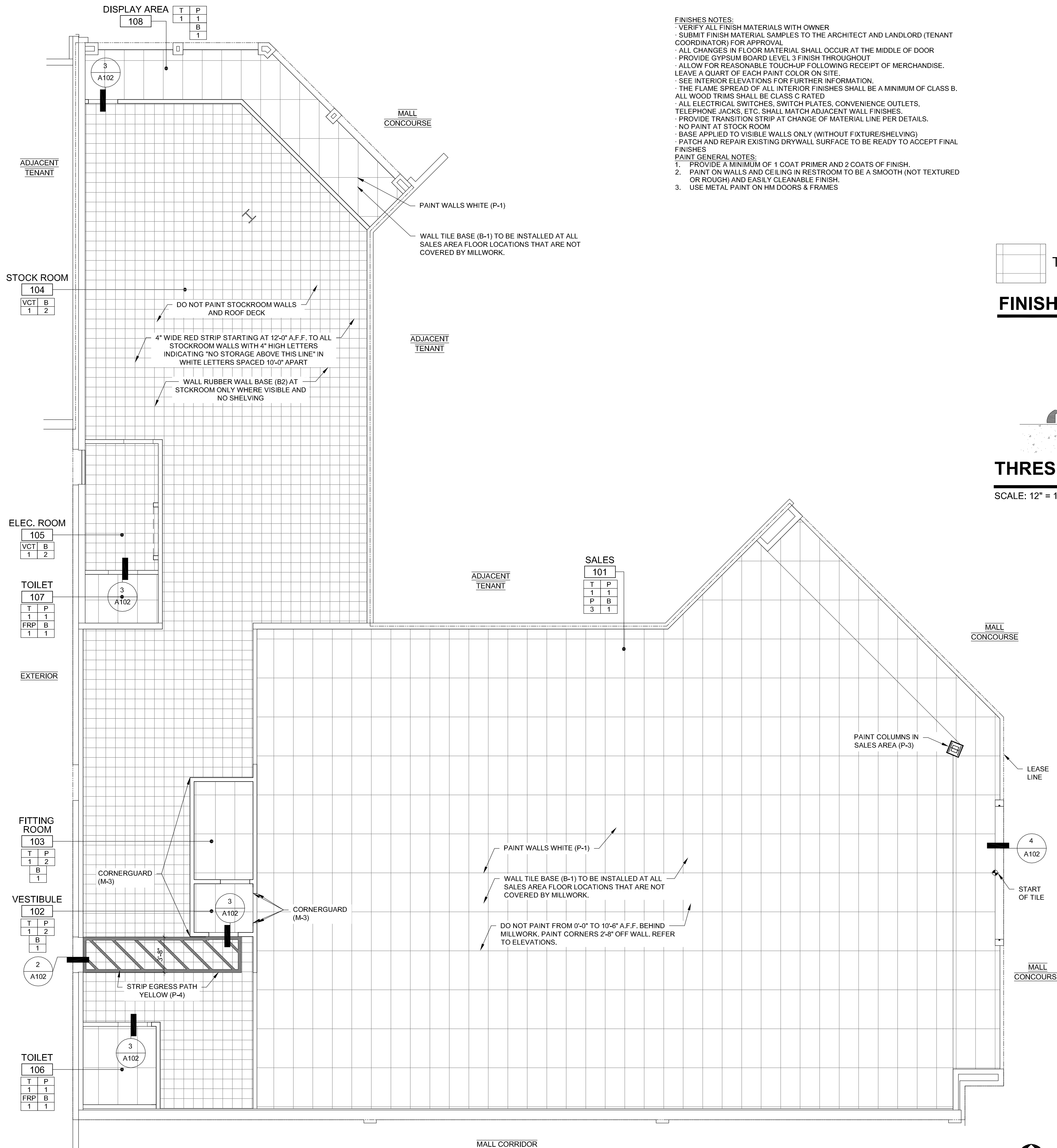
SHEET TITLE:
FLOOR PLAN

SHOE PALACE
 SOUTH HILL MALL
 SPACE 410 & 420
 3500 S MERIDIAN
 PUYALLUP, WA 98373

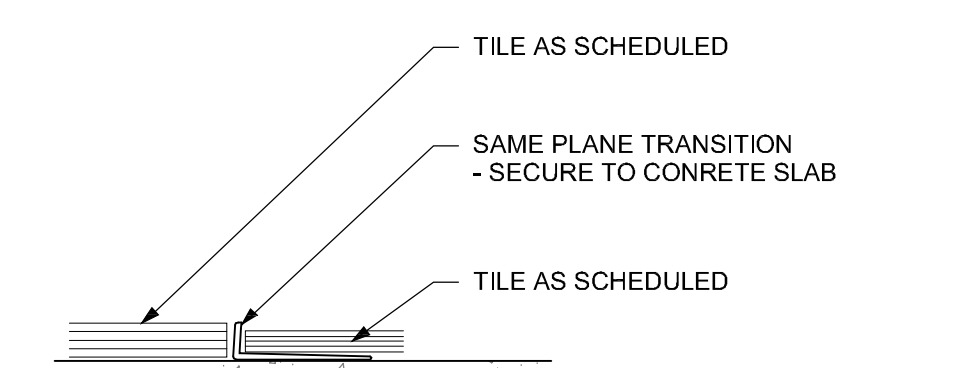
PRCT120240836

A101

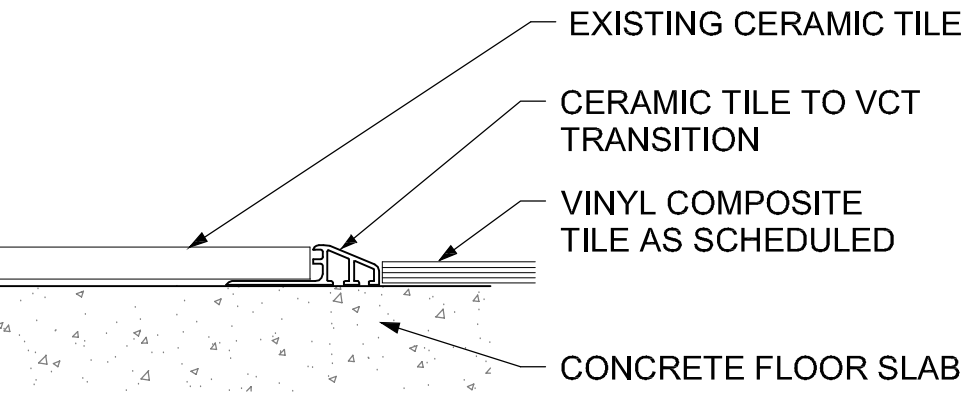




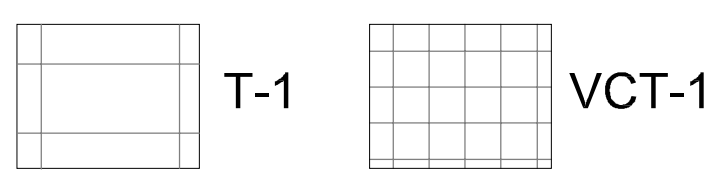
FINISHES NOTES:
 - VERIFY ALL FINISH MATERIALS WITH OWNER
 - SUBMIT FINISH MATERIAL SAMPLES TO THE ARCHITECT AND LANDLORD (TENANT COORDINATOR) FOR APPROVAL
 - ALL CHANGES IN FLOOR MATERIAL SHALL OCCUR AT THE MIDDLE OF DOOR
 - PROVIDE GYPSUM BOARD LEVEL 3 FINISH THROUGHOUT
 - ALLOW FOR REASONABLE TOUCH-UP FOLLOWING RECEIPT OF MERCHANDISE.
 - LEAVE A QUART OF EACH PAINT COLOR ON SITE.
 - SEE INTERIOR ELEVATIONS FOR FURTHER INFORMATION.
 - THE FLAME SPREAD OF ALL INTERIOR FINISHES SHALL BE A MINIMUM OF CLASS B.
 - ALL WOOD TRIMS SHALL BE CLASS C RATED
 - ALL ELECTRICAL SWITCHES, SWITCH PLATES, CONVENIENCE OUTLETS, TELEPHONE JACKS, ETC. SHALL MATCH ADJACENT WALL FINISHES.
 - PROVIDE TRANSITION STRIP AT CHANGE OF MATERIAL LINE PER DETAILS.
 - NO PAINT AT STOCK ROOM
 - BASE APPLIED TO VISIBLE WALLS ONLY (WITHOUT FIXTURE/SHELVING)
 - PATCH AND REPAIR EXISTING DRYWALL SURFACE TO BE READY TO ACCEPT FINAL FINISHES
PAINT GENERAL NOTES:
 1. PROVIDE A MINIMUM OF 1 COAT PRIMER AND 2 COATS OF FINISH.
 2. PAINT ON WALLS AND CEILING IN RESTROOM TO BE A SMOOTH (NOT TEXTURED OR ROUGH) AND EASILY CLEANABLE FINISH.
 3. USE METAL PAINT ON HM DOORS & FRAMES



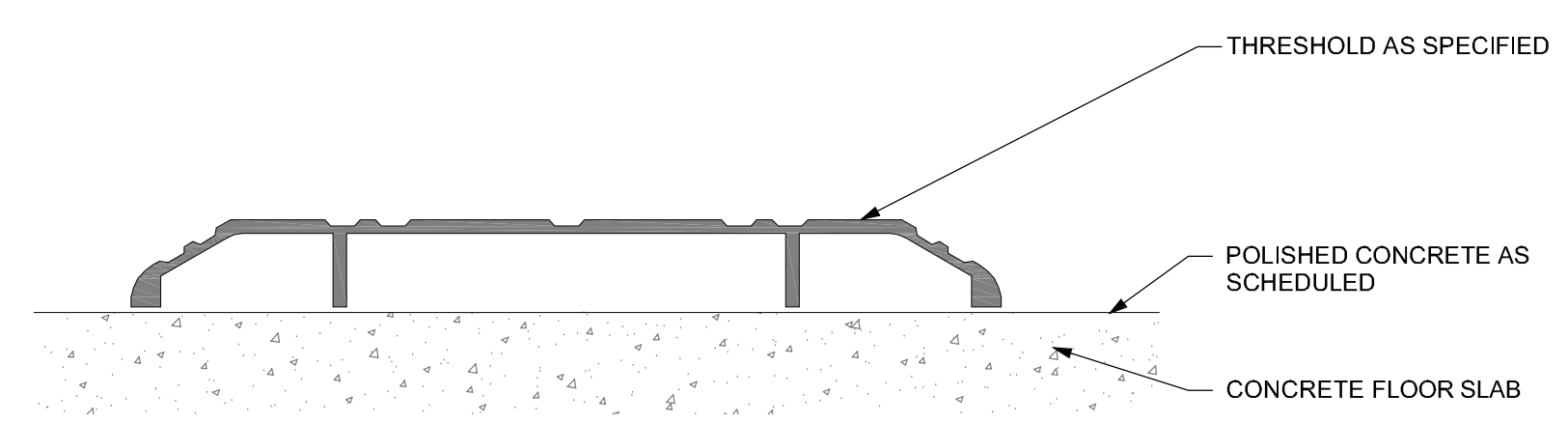
TILE TO TILE 4
 SCALE: 12" = 1'-0"



TILE TO VCT 3
 SCALE: 12" = 1'-0"



FINISH LEGEND



THRESHOLD 2
 SCALE: 12" = 1'-0"

SYMBOL	ITEM	MFR.	DESCRIPTION	REMARKS
FRP-1	FIBERGLASS REINF. PLASTIC		SIZE: 4" HIGH WITH CAP TRIM IN RESTROOMS ALL WALLS COLOR: GRAY	INSTALL ABOVE BASE
M-3	CORNERGUARD		3" x 3" x 7'-0" H. MIN. 14 GA STAINLESS STL. SCREW-LESS	MOUNT WITH COUNTERSUNK STAINLESS STEEL SCREWS
P-1	PAINT	SHERWIN WILLIAMS	COLOR: SW7008 EXTRA WHITE. FINISH: SEMI GLOSS IN RESTROOMS. EGGSHELL AT ALL OTHER LOCATIONS	
P-2	PAINT	SHERWIN WILLIAMS	COLOR: SW7659 GRIS. FINISH: EGGSHELL. IN FITTING ROOM. AT RESTROOM DOORS ALL SIDES.	
P-3	PAINT	RAL	COLOR: 3002, CARMINE RED	
P-4	PAINT	SHERWIN WILLIAMS	COLOR: SW4084 SAFETY YELLOW	
B-1	TILE BASE		SIZE: 6" HIGH TILE BASE TO MATCH FLOOR TILE	TV WALL, HAT WALL, WHERE VISIBLE AND WHERE MILLWORK IS NOT INSTALLED. GC TO CONFIRM w/ SP CM
B-2	RUBBER COVE BASE	BURKE	SIZE: 1/8" x 4" COLOR: 204 GRAY	INSTALL BASE WHERE VISIBLE. TO BE INSTALLED AFTER FIXTURES/SHELVINGS ARE INSTALLED. GC TO COORDINATE W/ MILLWORK VENDOR. STOCKROOM ONLY. - PROHIBITED FINISHES: SALES AREA: VINYL BASE, RUBBER BASE, OR LANDLORD DEEMED LOW QUALITY MATERIAL OR NON-COMMERCIAL RATED MATERIAL
T-1	TILE	SOMERTILE CONFIRM W/ SPCM	SIZE: 24" x 48" CERAMIC TILE. NON-SLIP SURFACE. "GREY" 16". GROUT 1/16" PRE-SEALING, AQUAMIX ULTRA-SOV SEALER.	GROUT: CUSTOM BUILDING PRODUCTS, TYP. GC TO CONFIRM w/ SP CM
VCT-1	VINYL TILE	ARMSTRONG	ARMSTRONG STD. EXCELON, IMPERIAL TEXTURE SIZE: 12"x12"x1/8". COLOR: 51803 BLUE GRAY	PROTECT DURING SHELF INSTALLATION AND CLEAN AFTER SHELF INSTALLATION TO THE SATISFACTION OF SHOE PALACE.
MT-1	METAL PANEL AT STOREFRONT		METAL PANEL FINIS PROVIDED BY SHOE PALACE INSTALLED BY GC	METAL PANEL FINIS PROVIDED BY SHOE PALACE INSTALLED BY GC

Carille Coatsworth architects
 18000 MacArthur Boulevard Suite 300 Irvine, California 92612 949.833.1330 www.ccarchitects.com

5146 REGISTERED ARCHITECT
CALVIN JOHN COATSWORTH
 STATE OF WASHINGTON

PROJECT NO. 24068
 DATE: 05/20/2024
 DRAWN BY: AL/LH/JAC
 SCALE: AS NOTED
 FILE:

GROSS AREA 6,719 S.F.

REVISIONS:

City of Puyallup
 Development & Permitting Services
 ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

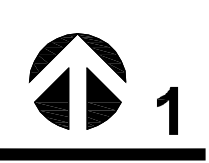
SHEET TITLE:
FINISH PLAN

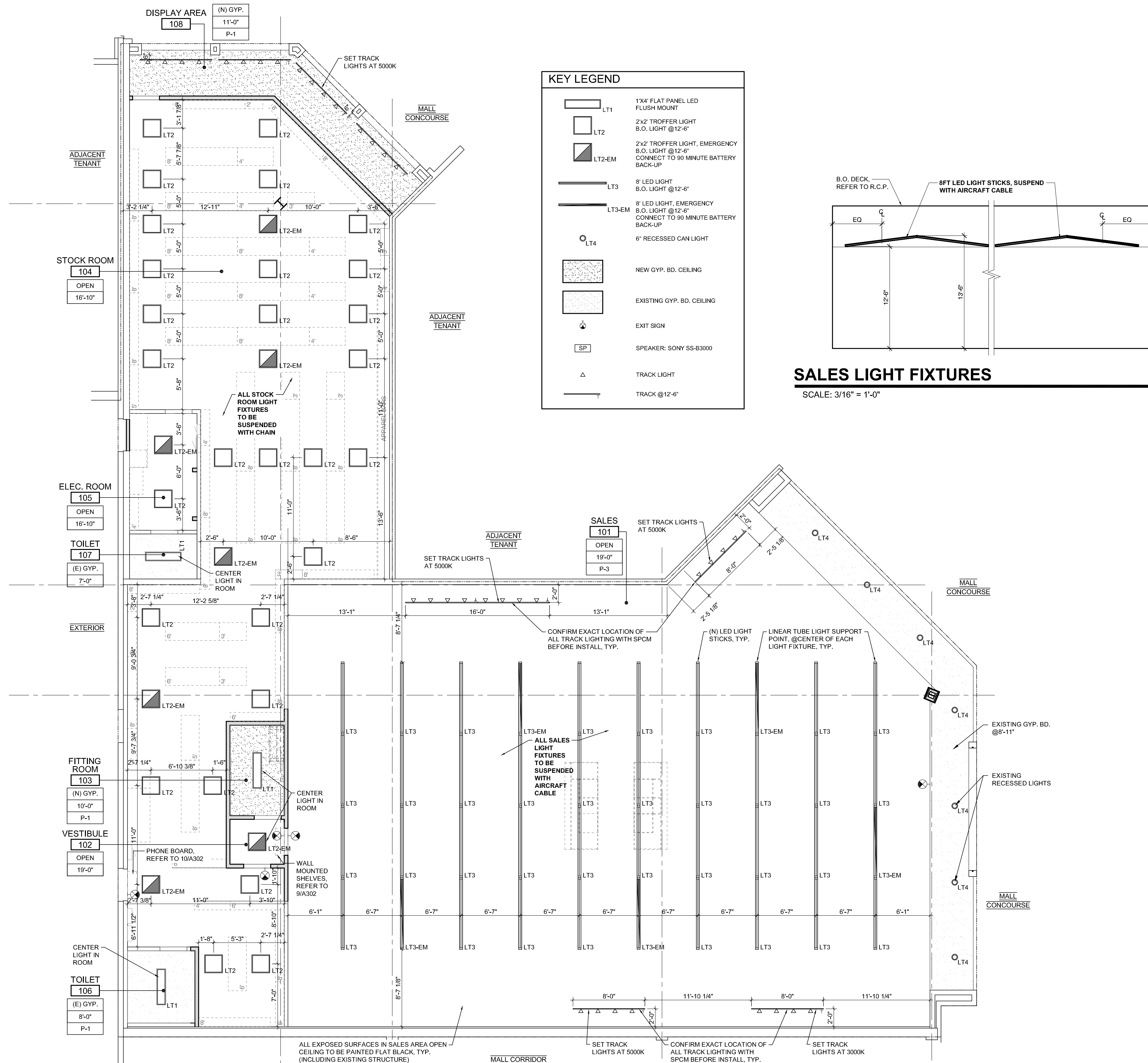
SHOE PALACE
 SOUTH HILL MALL
 SPACE 410 & 420
 3500 S MERIDIAN
 PUYALLUP, WA 98373

PRCT120240836

FINISH PLAN

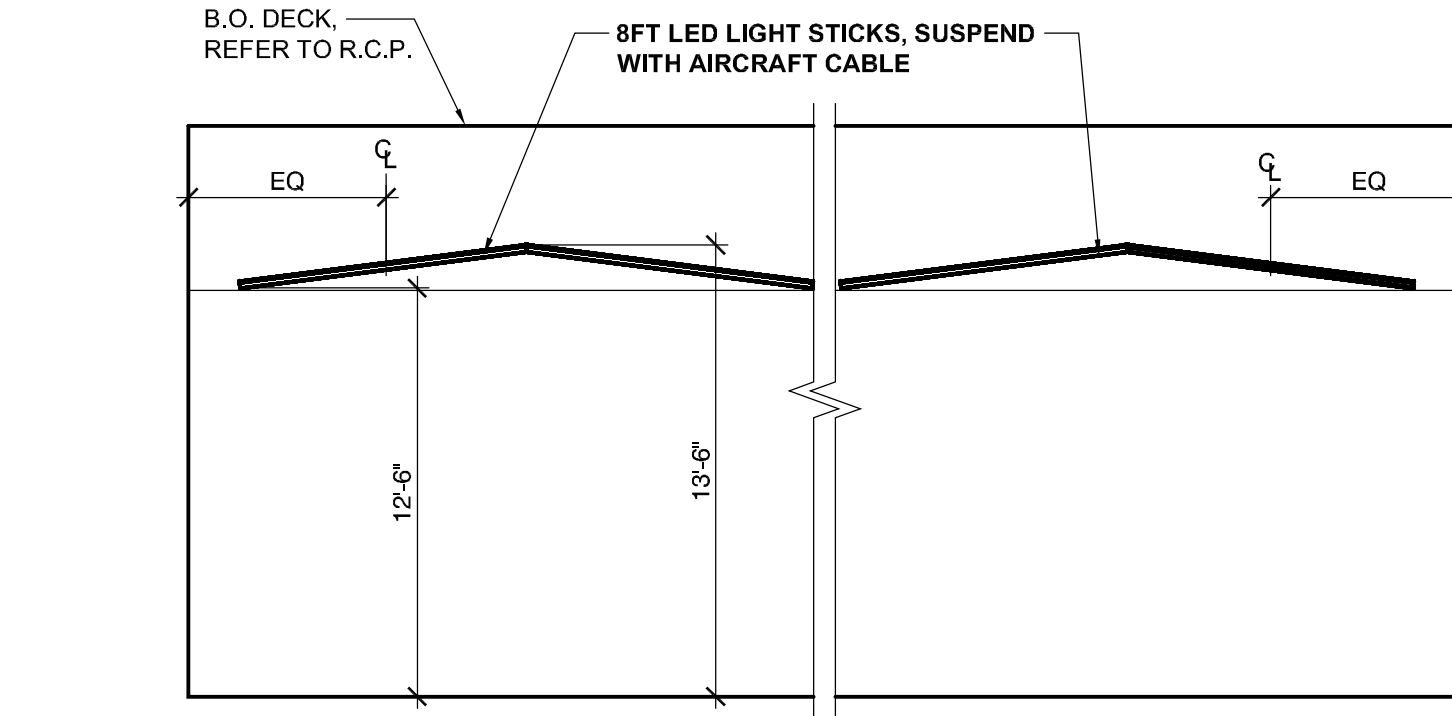
SCALE: 3/16" = 1'-0"





KEY LEGEND

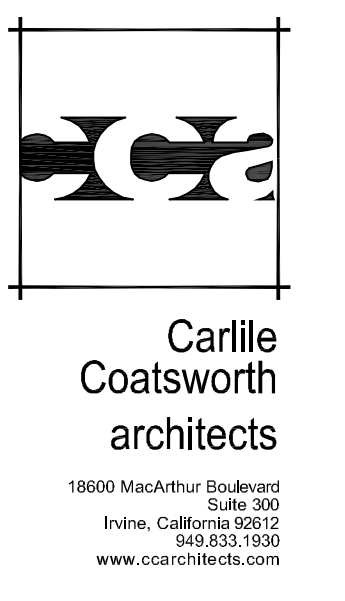
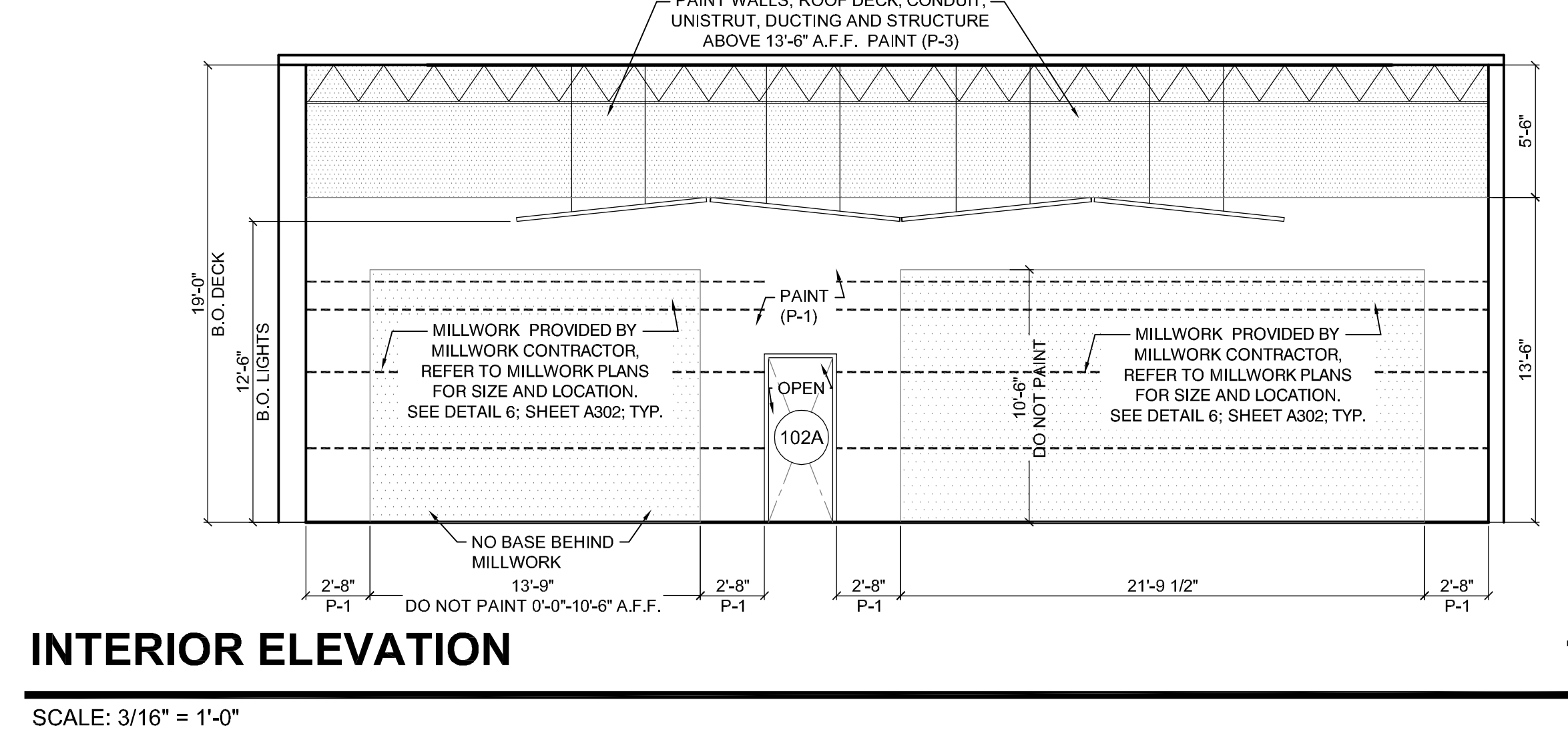
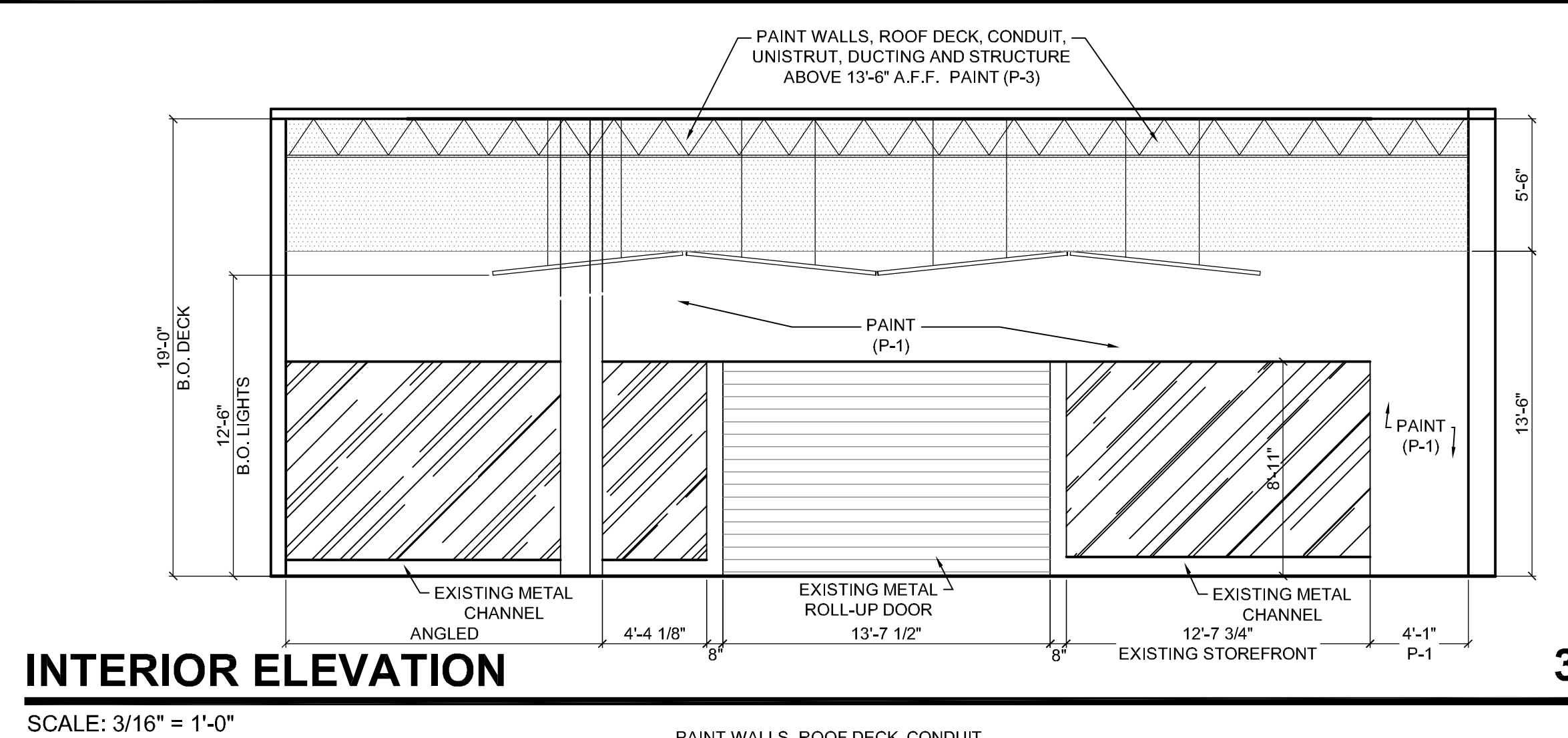
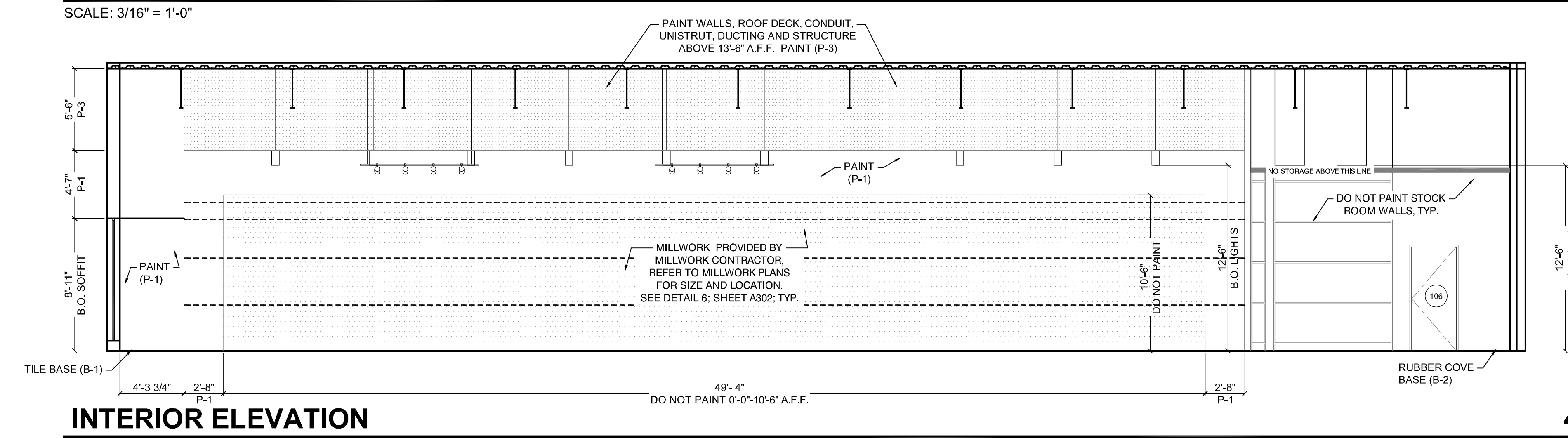
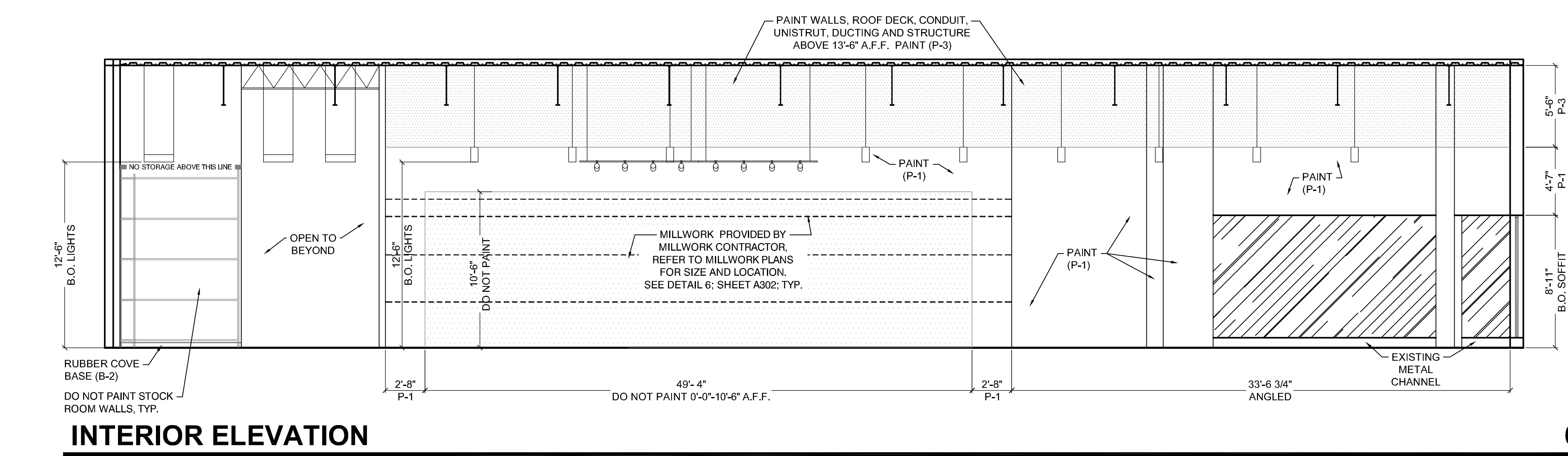
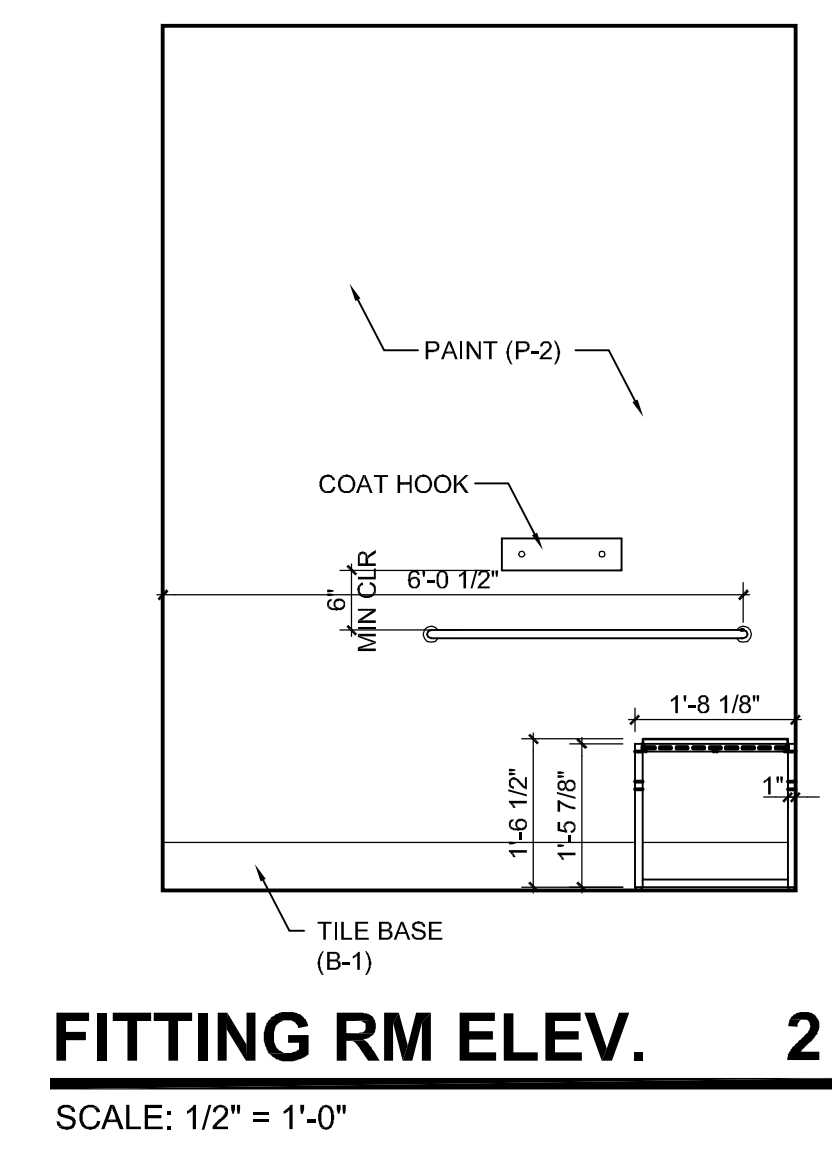
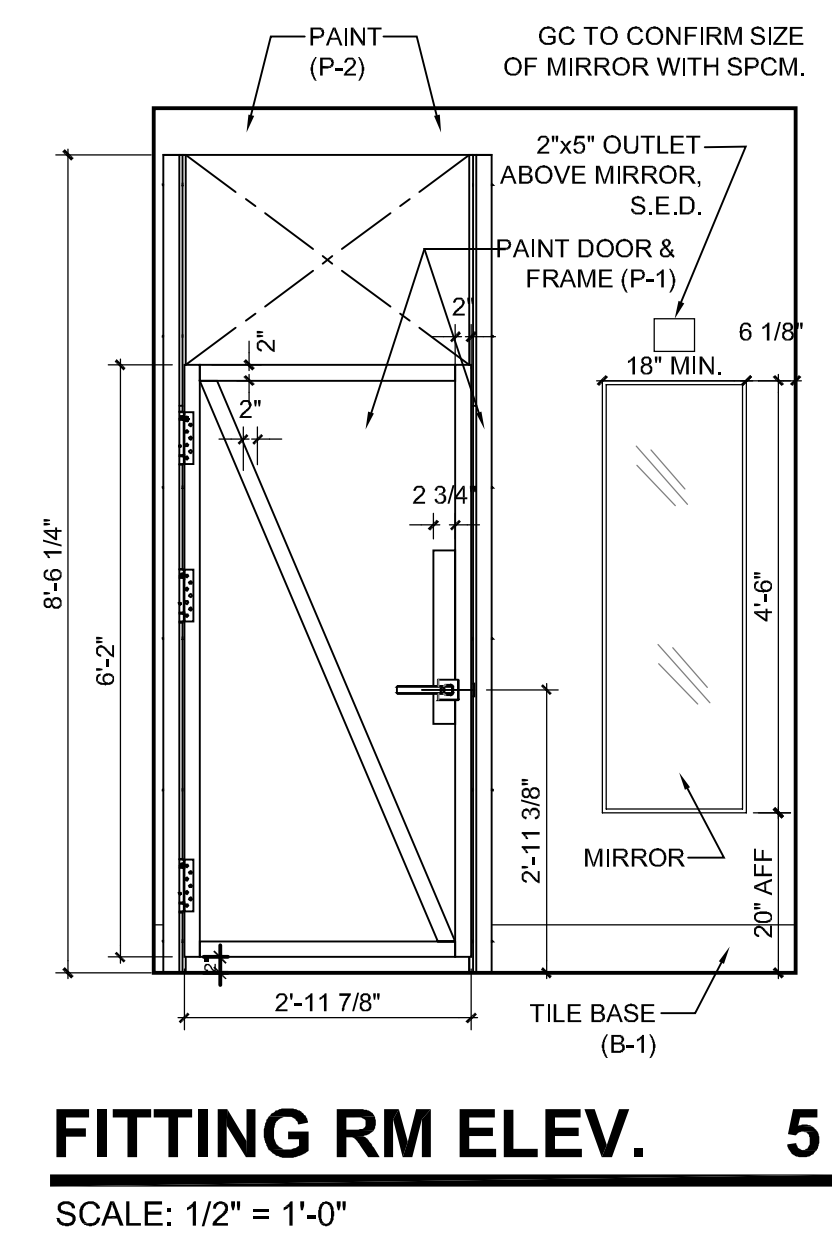
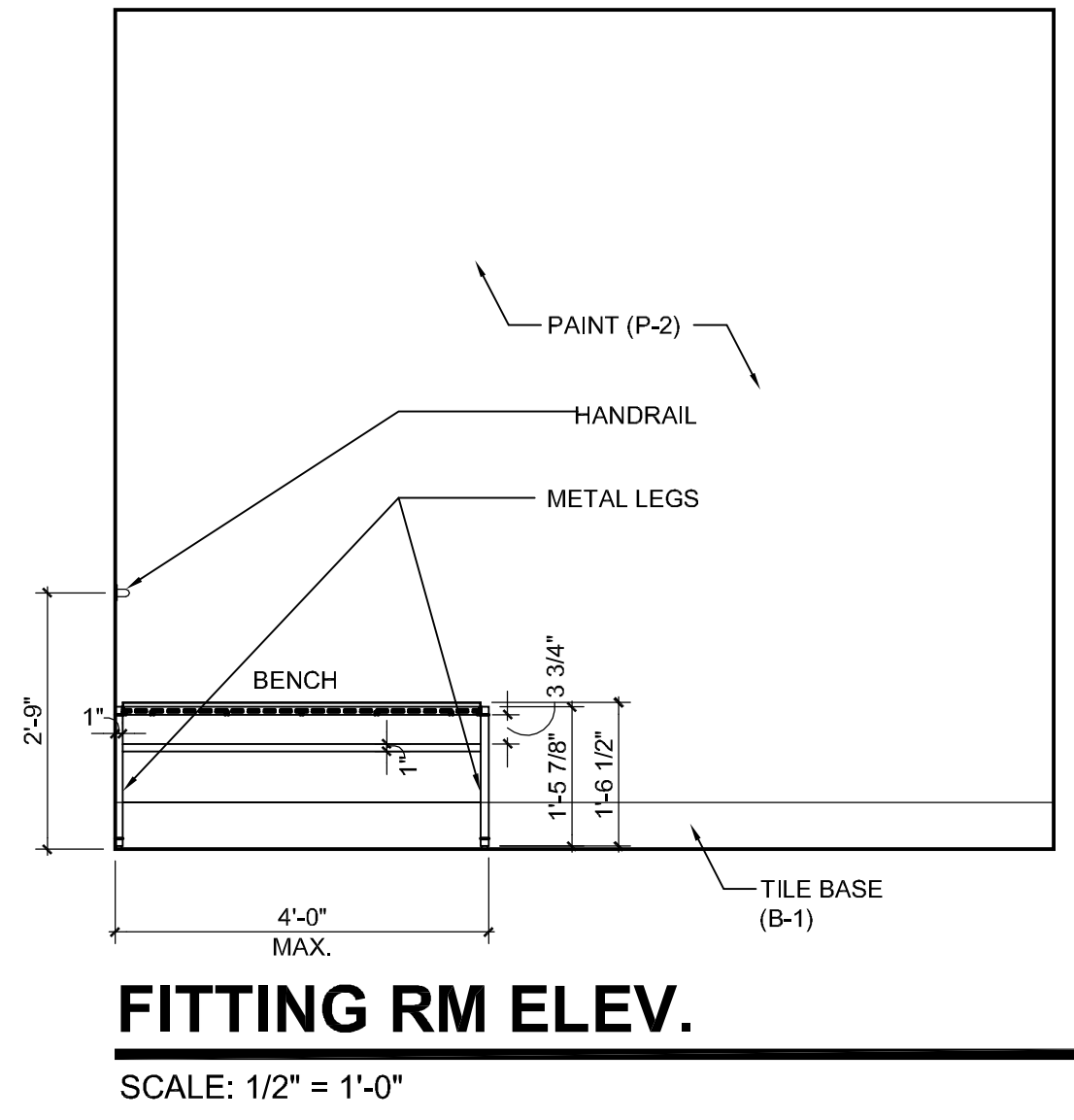
	1X4' FLAT PANEL LED FLUSH MOUNT
	2X2 TROFFER LIGHT B.O. LIGHT @12'-6"
	2X2 TROFFER LIGHT, EMERGENCY B.O. LIGHT @12'-6" CONNECT TO 90 MINUTE BATTERY BACK-UP
	8' LED LIGHT B.O. LIGHT @12'-6"
	8' LED LIGHT, EMERGENCY B.O. LIGHT @12'-6" CONNECT TO 90 MINUTE BATTERY BACK-UP
	6" RECESSED CAN LIGHT
	NEW GYP. BD. CEILING
	EXISTING GYP. BD. CEILING
	EXIT SIGN
	SPEAKER: SONY SS-B3000
	TRACK LIGHT
	TRACK @12'-6"



SALES LIGHT FIXTURES
SCALE: 3/16" = 1'-0"

REFLECTED CEILING PLAN
SCALE: 3/16" = 1'-0"





PROJECT NO. 24068
DATE: 05/20/2024
DRAWN BY: AL/LH/AC
SCALE: AS NOTED
FILE:
GROSS AREA 6,719 S.F.

REVISIONS:

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

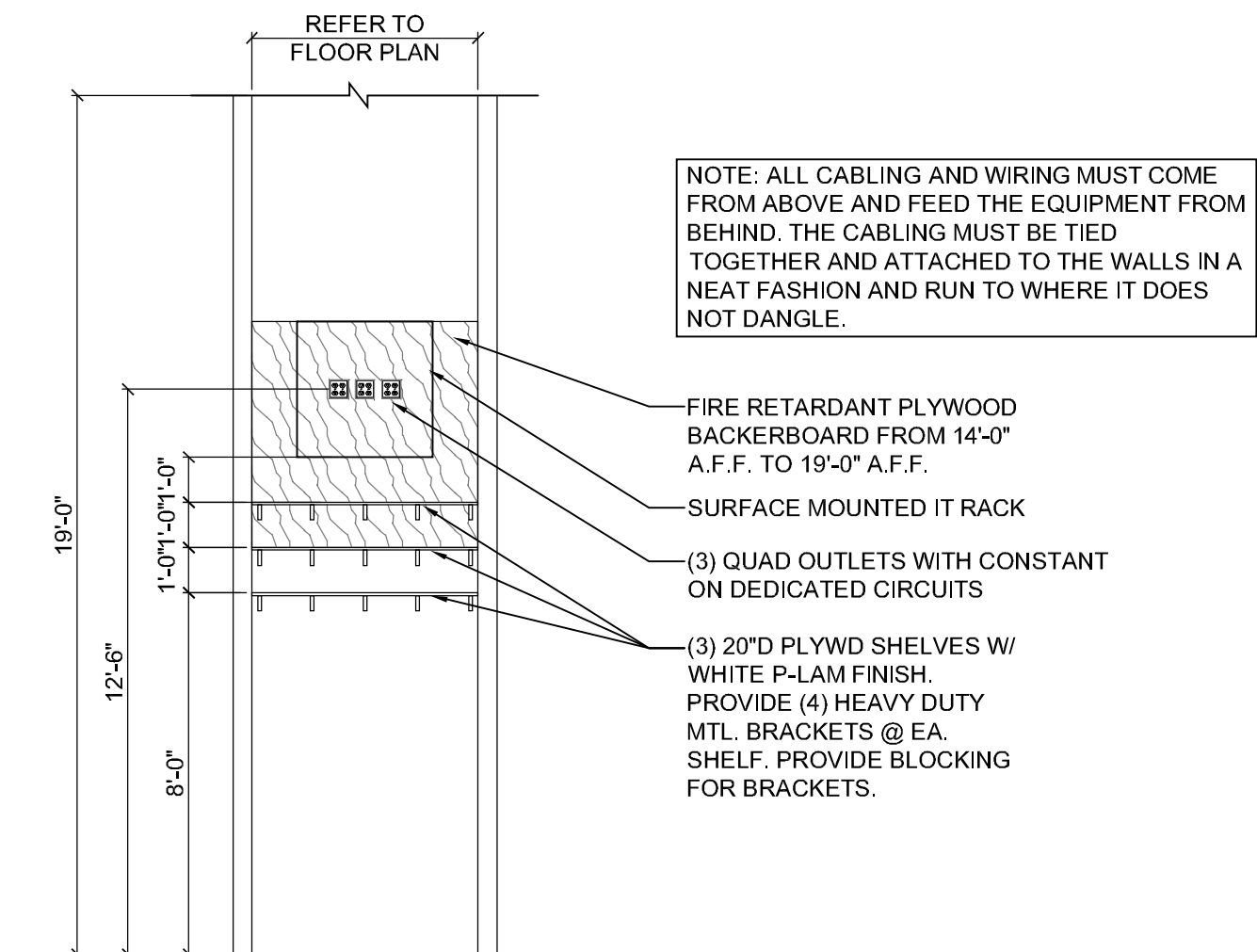
Building	Planning
Engineering	Public Works
Fire	Traffic

SHEET TITLE:
INTERIOR ELEVATIONS

SHOE PALACE
SOUTH HILL MALL
SPACE 410 & 420
3500 S MERIDIAN
PUYALLUP, WA 98373

PRCTI20240836

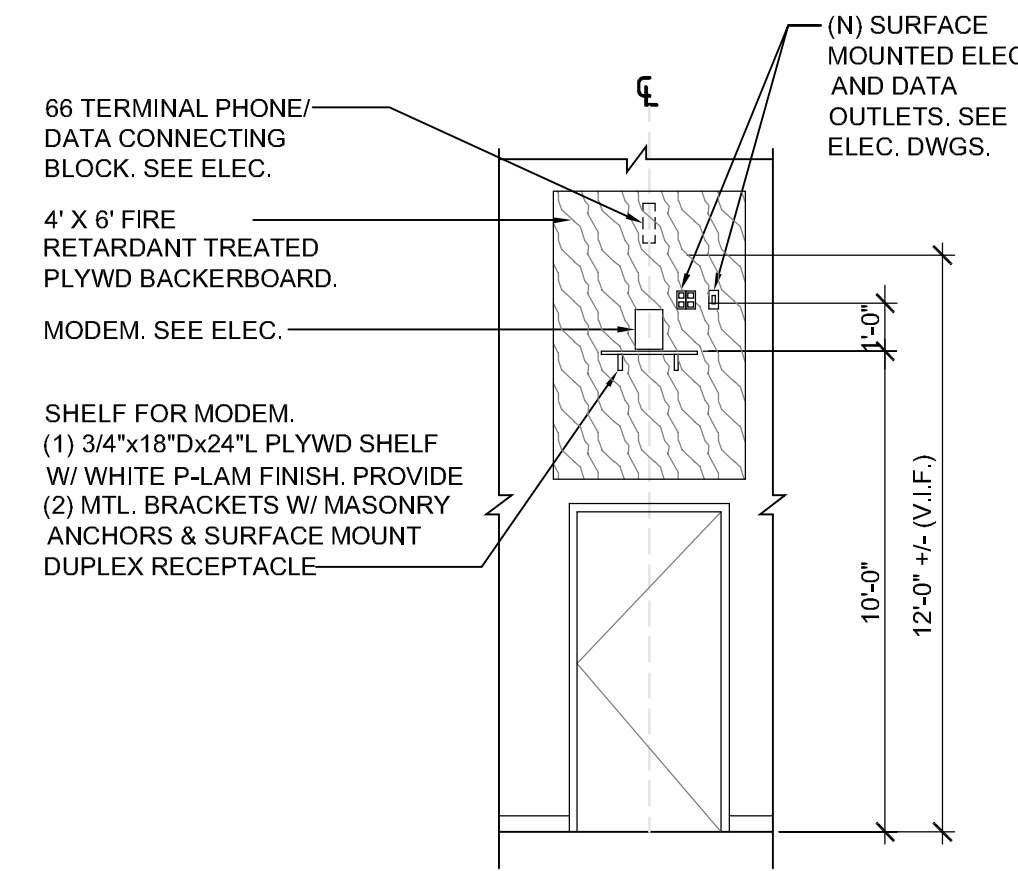
A301



IT RACK ELEVATION

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

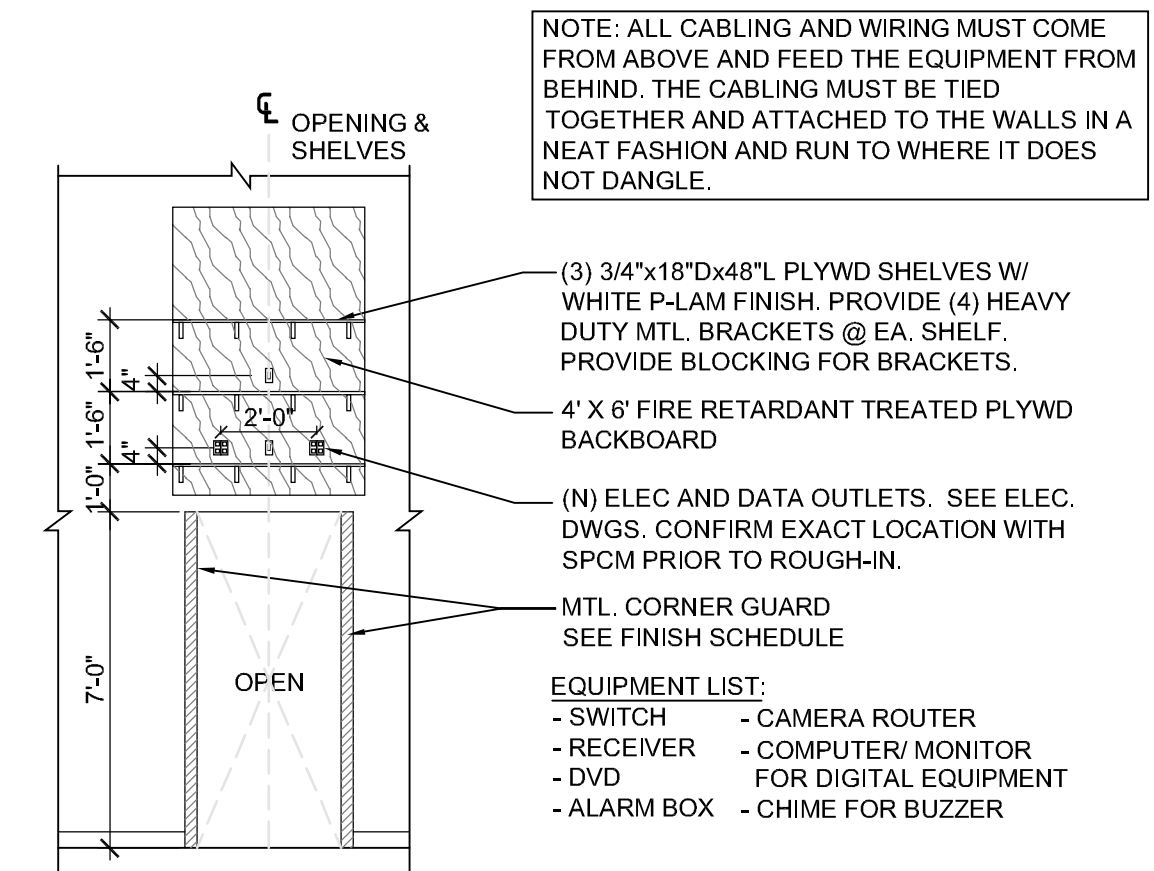
11



PHONE BOARD ELEVATION

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

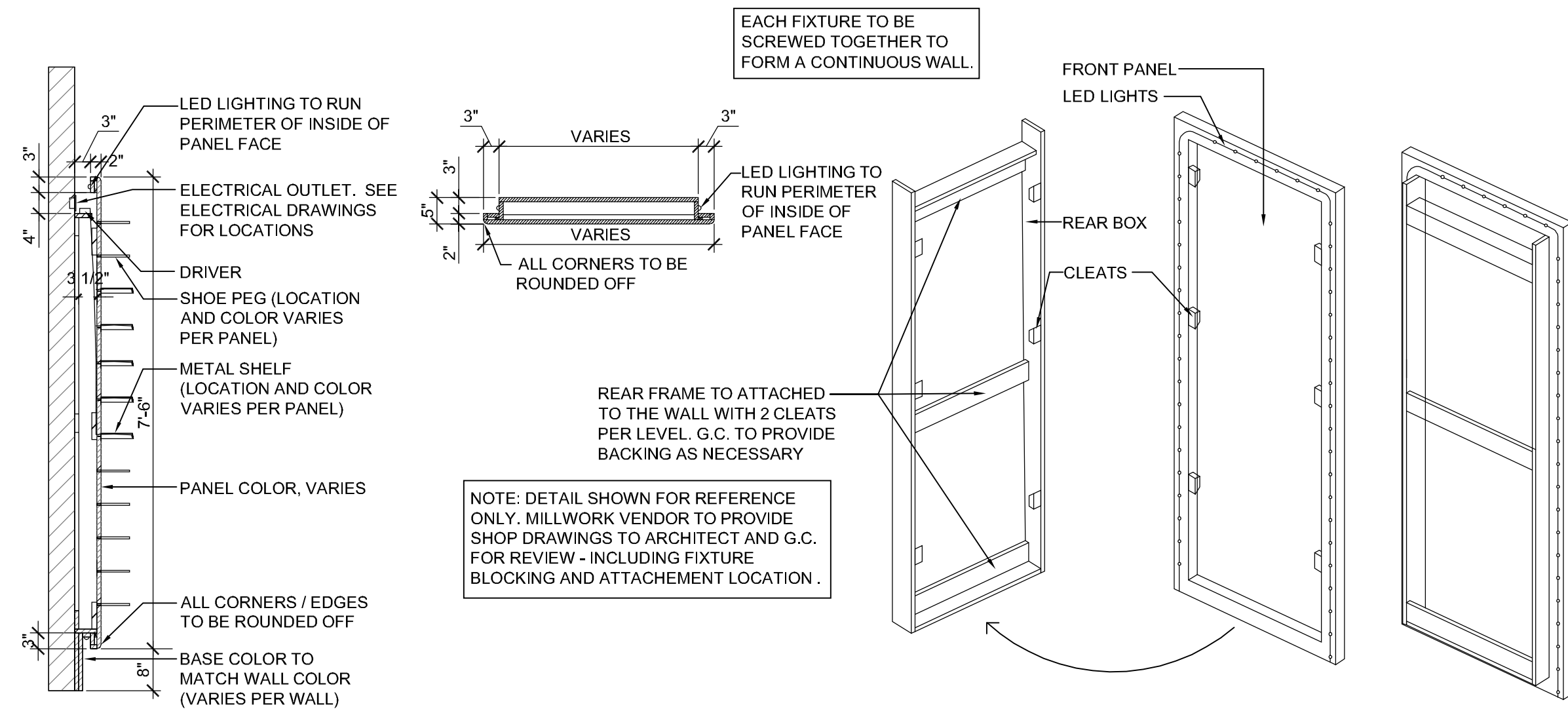
10



STOCK ROOM ELEVATION

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

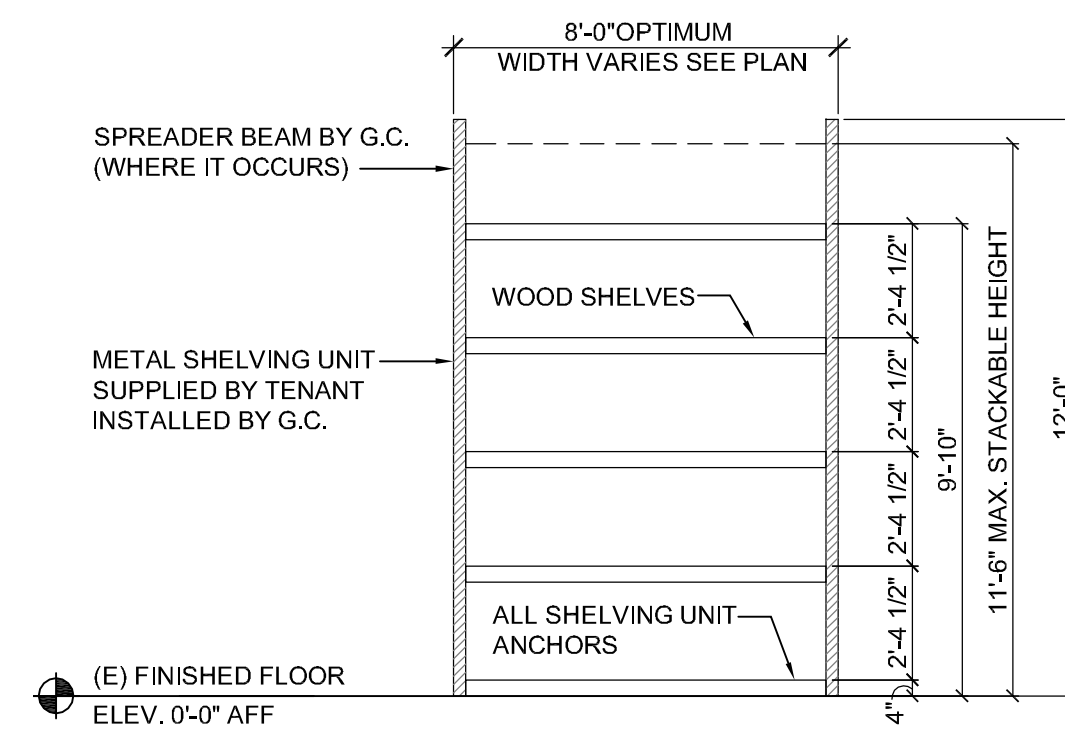
9



FIXTURE WALL ATTACHMENT

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

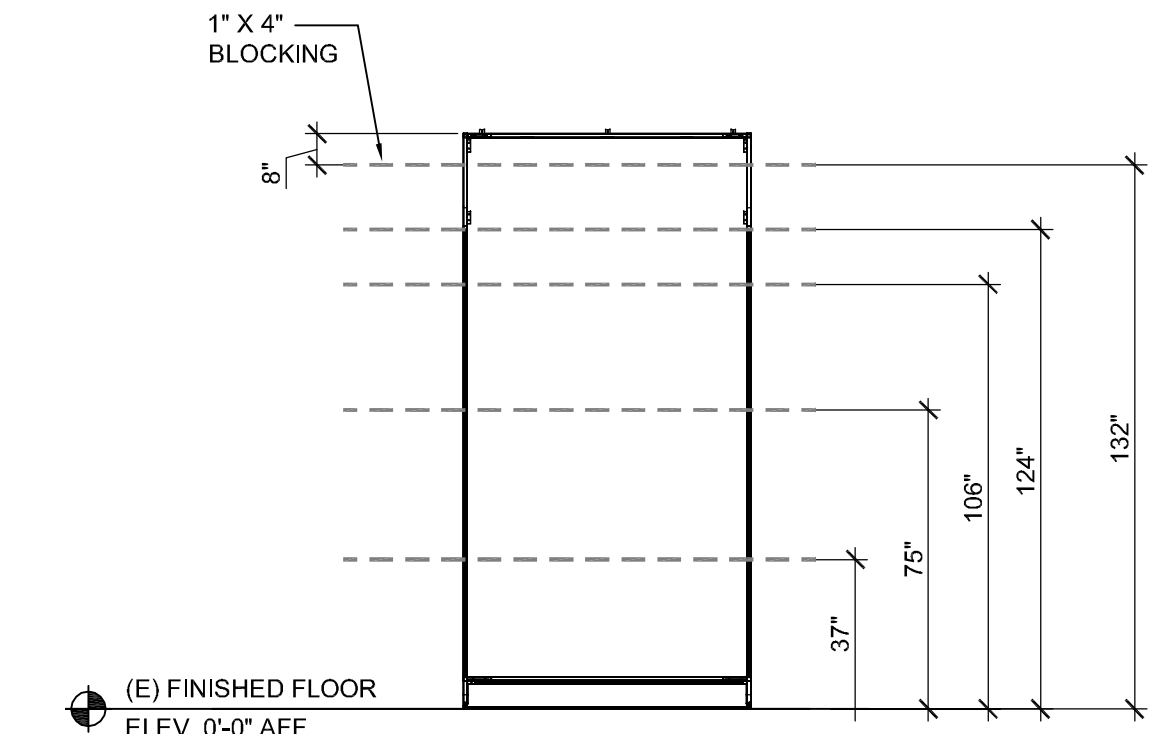
6



STOCK SHELVING ELEVATION

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

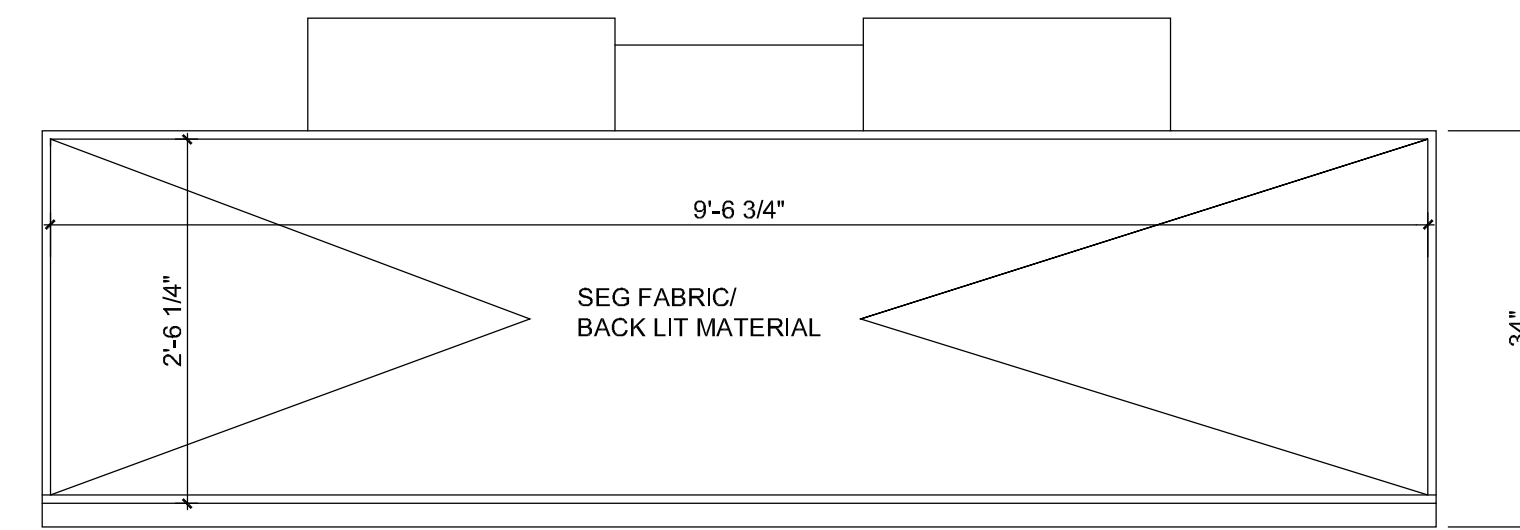
8



FIXTURE BLOCKING

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

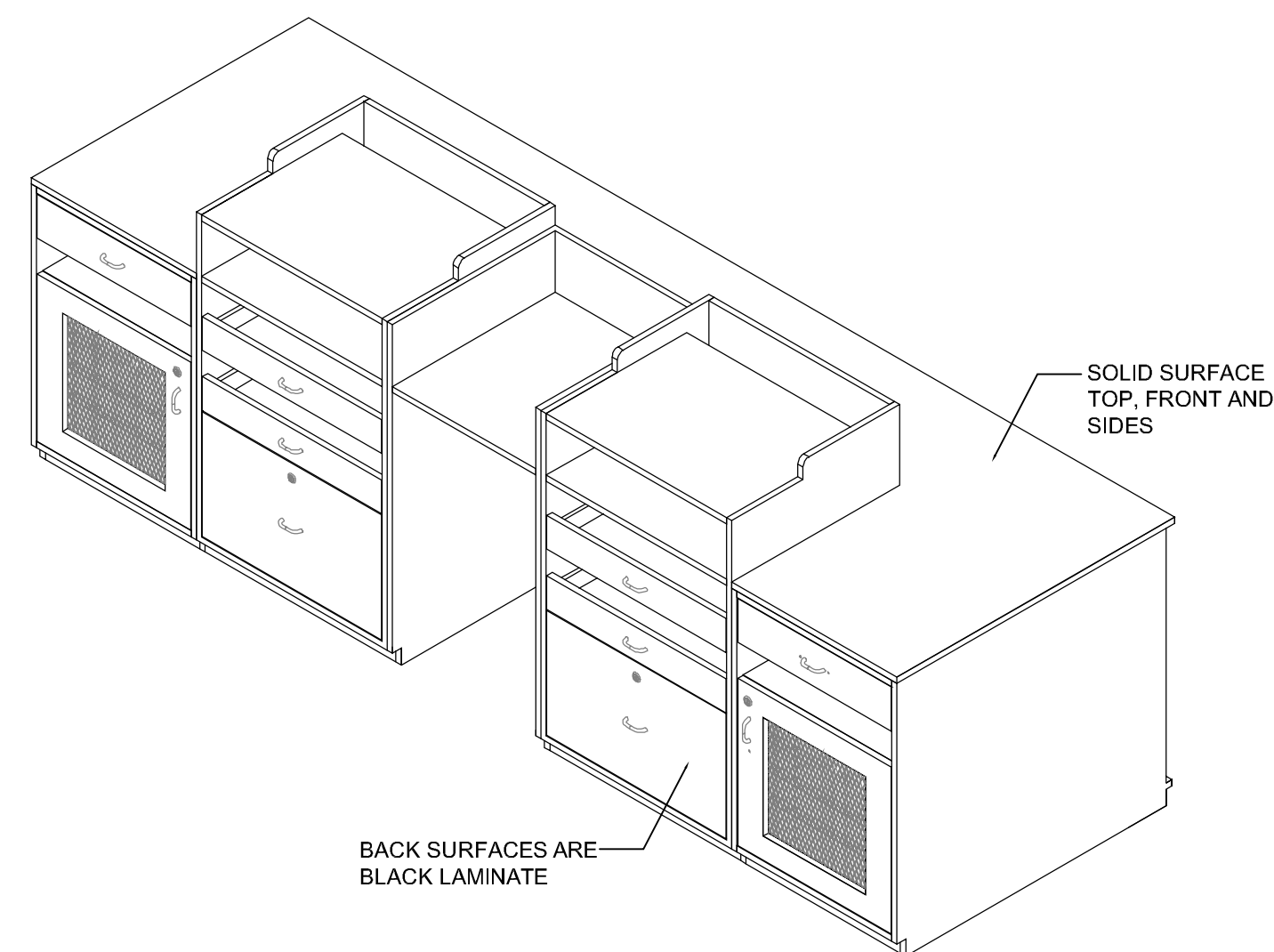
7



CASHWRAP FRONT ELEVATION

SCALE: 3/4" = 1'-0"

5



CASHWRAP PERSPECTIVE

NOT TO SCALE

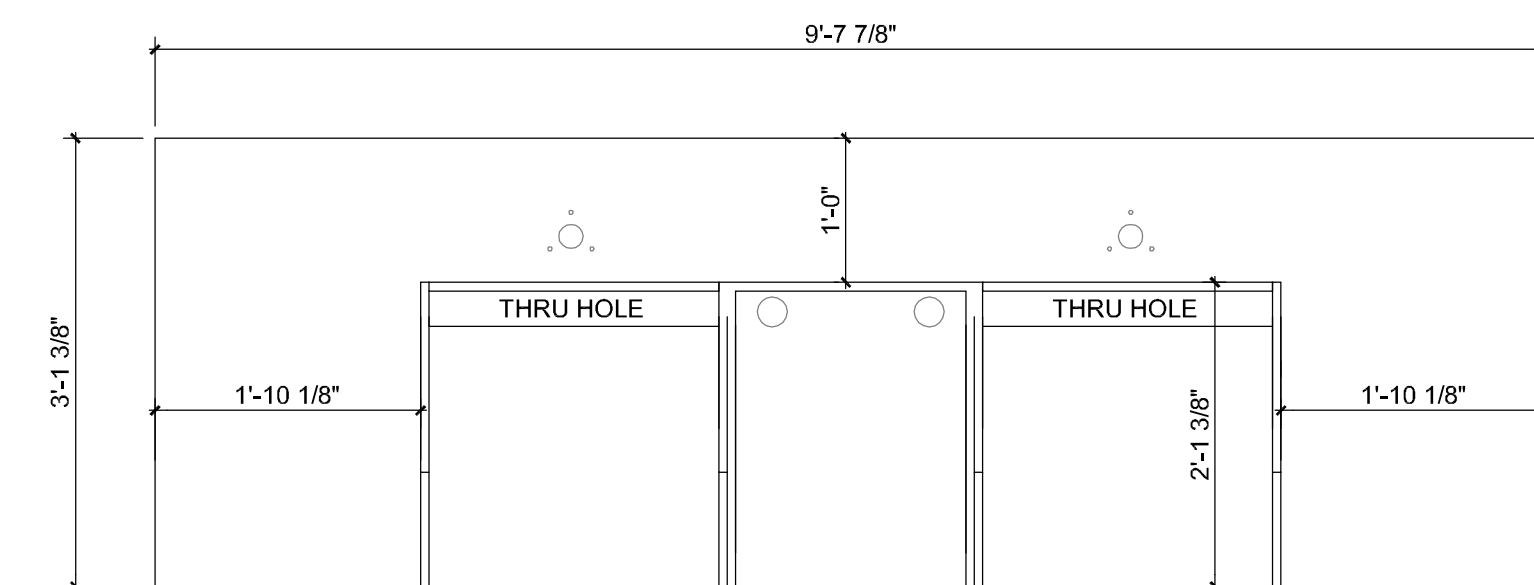
3



CASHWRAP BACK ELEVATION

SCALE: 3/4" = 1'-0"

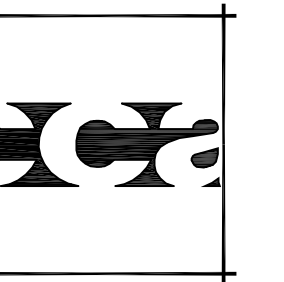
2



CASHWRAP PLAN

SCALE: 3/4" = 1'-0"

1



Carlile
Coatsworth
architects

18000 MacArthur Boulevard Suite 300
Irvine, California 92612
949.833.1330
www.ccarchitects.com



PROJECT NO. 24068
DATE: 05/20/2024
DRAWN BY: AL/LH/AC
SCALE: AS NOTED
FILE:
GROSS AREA 6,719 S.F.

REVISIONS:

City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

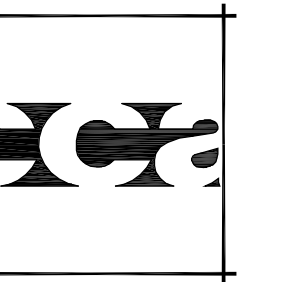
SHEET TITLE:

**INTERIOR
ELEVATIONS**

SHOE PALACE
SOUTH HILL MALL
SPACE 410 & 420
3500 S MERIDIAN
PUYALLUP, WA 98373

PRCT120240836

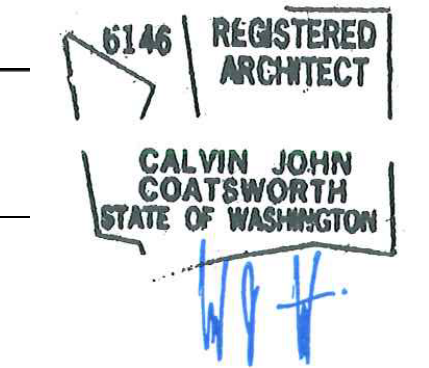
A302



Carlie Coatsworth architects

18000 MacArthur Boulevard Suite 300 Irvine, California 92612 949.833.1030 www.ccarchitects.com

APPROVED BY:



EXISTING STOREFRONT

5

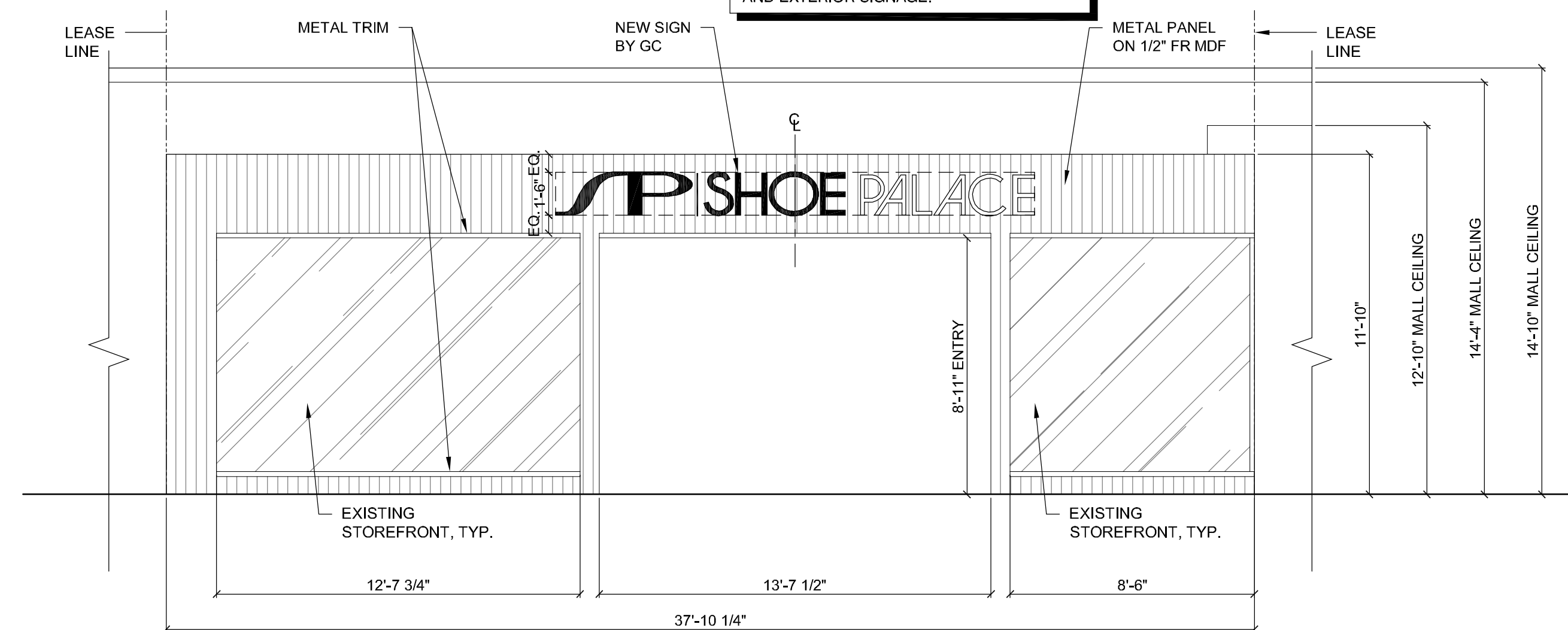
SCALE: N.T.S.

EXISTING STOREFRONT

4

SCALE: N.T.S.

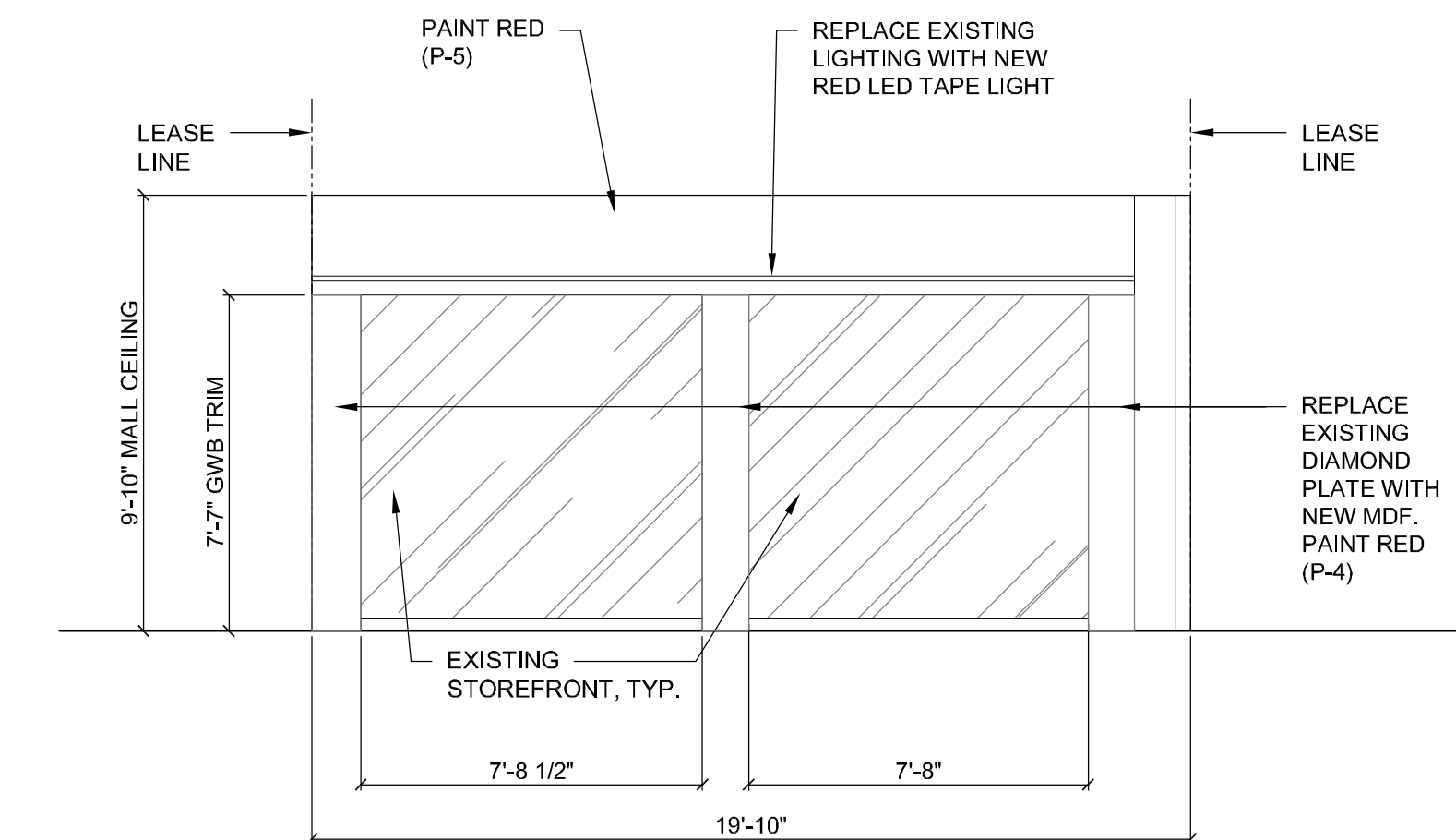
NOTE: SIGNAGE SHOWN FOR REFERENCE ONLY AND SUBMITTED UNDER A SEPARATE PERMIT. SIGNAGE CONTRACTOR TO SUBMIT SHOP DRAWINGS TO LL FOR APPROVAL. GC TO PROVIDE REQUIRED POWER, BLOCKING, SUPPORT. INSTALLATION TO ALL INTERIOR AND EXTERIOR SIGNAGE.



STOREFRONT ELEVATION

3

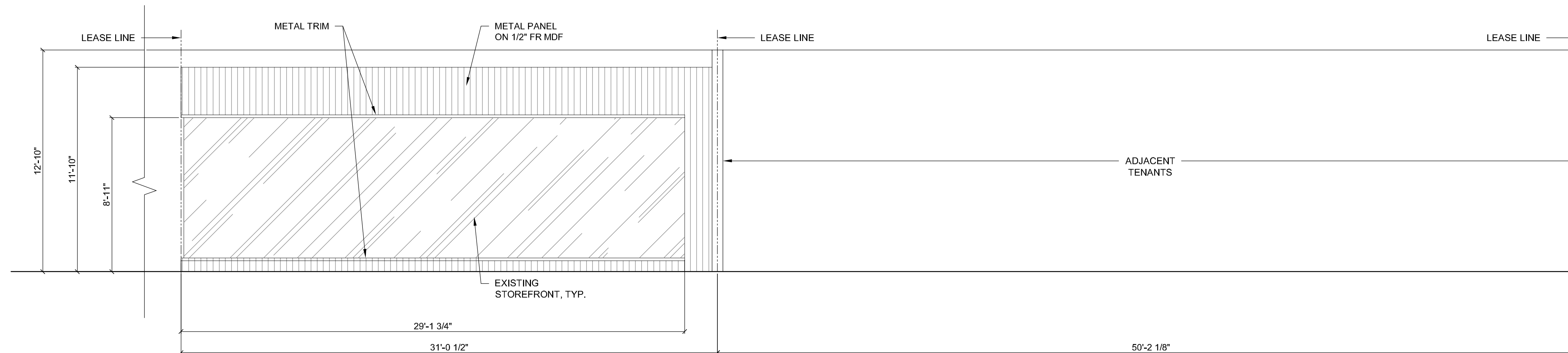
SCALE: 1/4" = 1'-0"



STOREFRONT ELEVATION

2

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



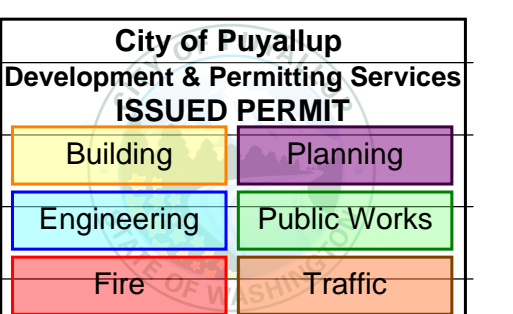
STOREFRONT ELEVATION

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

PROJECT NO. 24068
DATE: 05/20/2024
DRAWN BY: AL/LH/AC
SCALE: AS NOTED
FILE:

GROSS AREA 6,719 S.F.

REVISIONS:



SHEET TITLE:

STOREFRONT ELEVATIONS

SP SHOE PALACE

SOUTH HILL MALL
SPACE 410 & 420
3500 S MERIDIAN
PUYALLUP, WA 98373

PRCTI20240836

A303

1



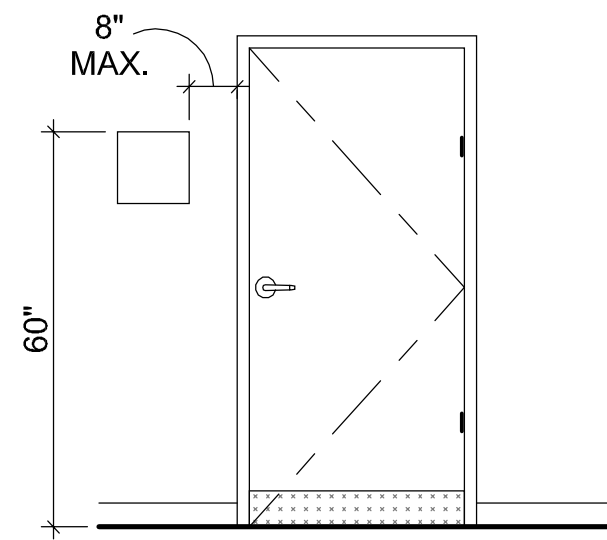
ON LAVATORY DOORS AND ACCESSIBLE FITTING ROOM DOORS:

PROVIDE A 6"x6" SIGN PORTRAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY (AS SHOWN TO LEFT).

SIGN TO BE MOUNTED AT 60" A.F.F. AND TO BE OF CONTRASTING COLORS.



SIGNS SHALL BE INSTALLED ON WALL ADJACENT TO LATCH SIDE OF DOOR OR AT THE NEAREST AVAILABLE ADJACENT WALL.



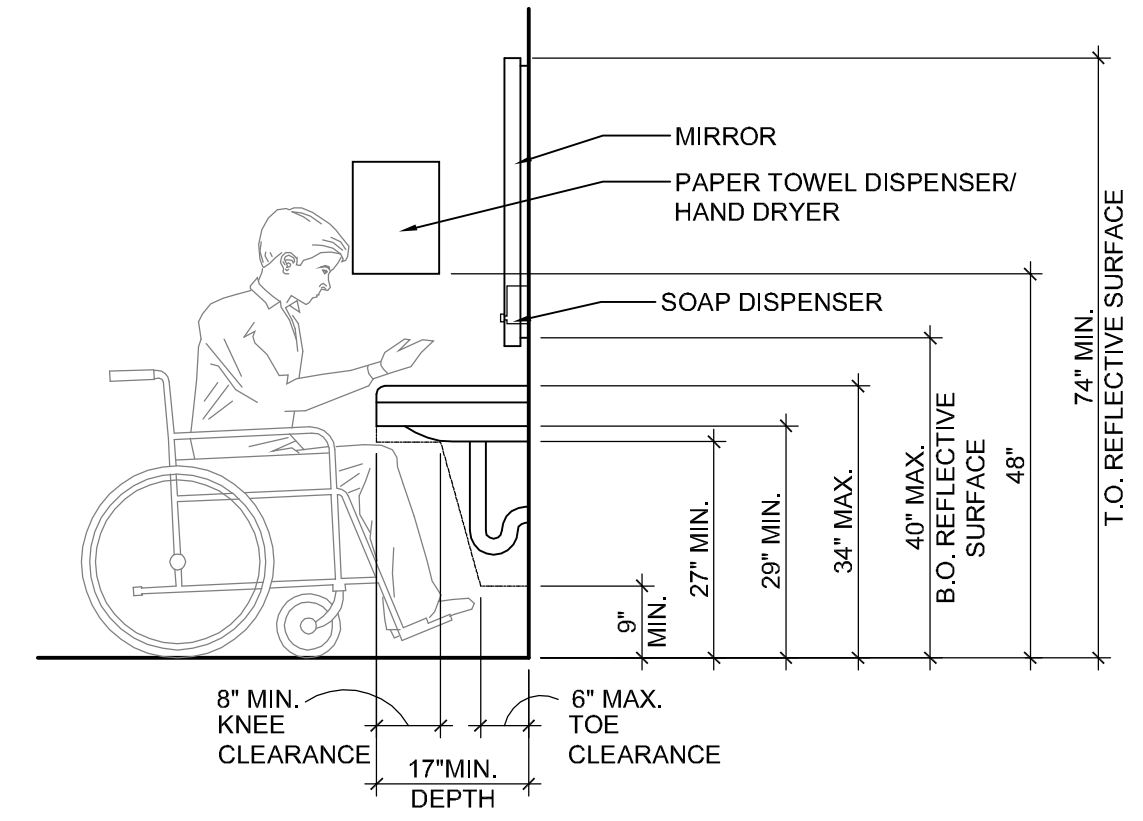
ALL SIGNAGE SHALL CONFORM WITH ADA GUIDELINES:

- LETTERS AND NUMERALS MUST BE RAISED 1/32" FROM SIGN SURFACE
- CHARACTER HEIGHT MUST BE AT LEAST 5/8" BUT NOT EXCEED 2".
- TYPE STYLE FOR LETTERS AND NUMBERS SHALL BE SANS SERIF OR SIMPLE SERIF.
- WORDS AND NUMBERS MUST BE ALSO CONVERTED INTO GRADE 2 BRAILLE AND BE APPLIED TO SIGN.
- PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY PICTOGRAM.
- THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6 IN. MIN.
- CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND.

ACCESSIBILITY SIGNAGE

PLUMBING NOTES

- PROVIDE ALL NECESSARY BLOCKING AS REQUIRED FOR ALL PLUMBING FIXTURES AND ACCESSORIES.
- GRAB BARS SHALL BE 1 1/2" CLEAR FROM WALL (1 1/4" DIAMETER), WITH 256 SERIES ANCHOR PLATES TO WITHSTAND 250 LB. VERTICAL AND HORIZONTAL PRESSURE GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8".
- PROVIDE SIGN STATING "EMPLOYEES MUST WASH HANDS BEFORE LEAVING" POSTED ADJACENT TO SINK (IF REQUIRED BY CODE, G.C. TO INSTALL)
- WATER CLOSETS AND URINAL FLUSH VALVE CONTROLS, AND FAUCET AND OPERATING MECHANISM CONTROLS, SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. CONTROLS FOR WATER CLOSET FLUSH VALVES SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS AND SHALL BE MOUNTED NO MORE THAN 44" ABOVE FINISHED FLOOR.
- THE FORCE REQUIRED TO ACTIVATE WATER CLOSET AND URINAL FLUSH VALVE CONTROLS, AND FAUCET AND OPERATING MECHANISM CONTROLS, SHALL BE NO GREATER THAN 5 lbf.



DETAIL ACCESSIBLE LAV.

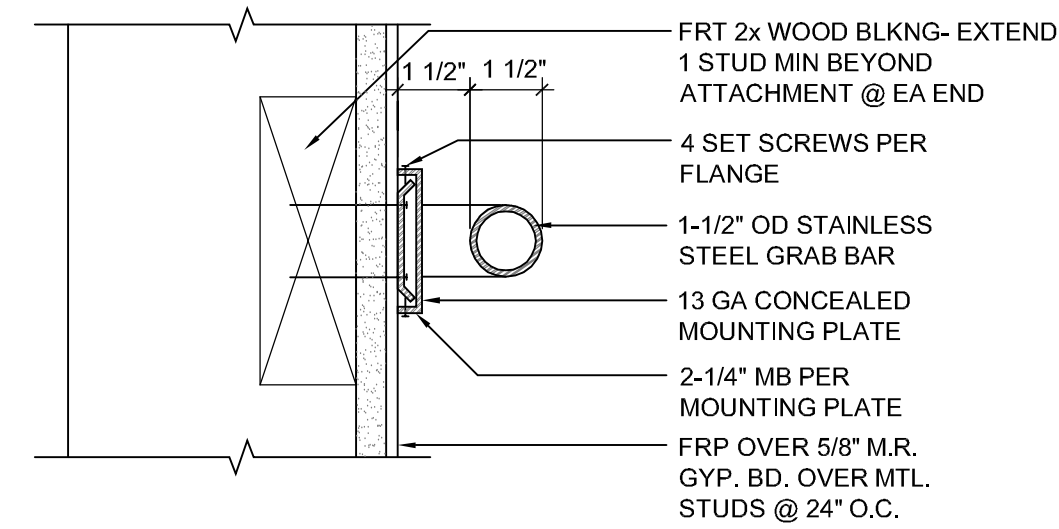
SCALE: 1/2" = 1'-0"

ITEM	MODEL / REMARKS
1	TOILET TISSUE DISPENSER ASI 0030-41 SURFACE MOUNT SINGLE - MATTE BLACK
2	TOILET ROOM SIGNAGE REFER TO SIGNAGE DETAIL
3	PAPER TOWEL DISPENSER ASI 0210-41 SURFACE MOUNT - MATTE BLACK
4	SINK REFER TO PLUMBING
5	42" LONG GRAB BAR BOBRICK, 150Cx42.MBLK
6	36" LONG GRAB BAR BOBRICK, 150Cx36.MBLK
7	TOILET REFER TO PLUMBING
8	MIRROR 24" X 36" MIRROR WITH SAFETY BACKING BOBRICK, B-290 2436.MBLK - MATTE BLACK
9	THERMAL SHIELD @ EXPOSED HOT WATER & DRAIN PIPES TRUEBRO LAV SHIELD

TOILET ROOM ACCESSORIES

NOTES:

- ALL BATHROOM ACCESSORIES SHALL BE NO MORE THAN 40" MAX. AFF.
- PROVIDE PRIVACY DOOR LOCK WHEN IT IS A PRIVATE TOILET OR FOR ALL GENDER USE.
- GRAB BARS, SEE DETAIL 6.

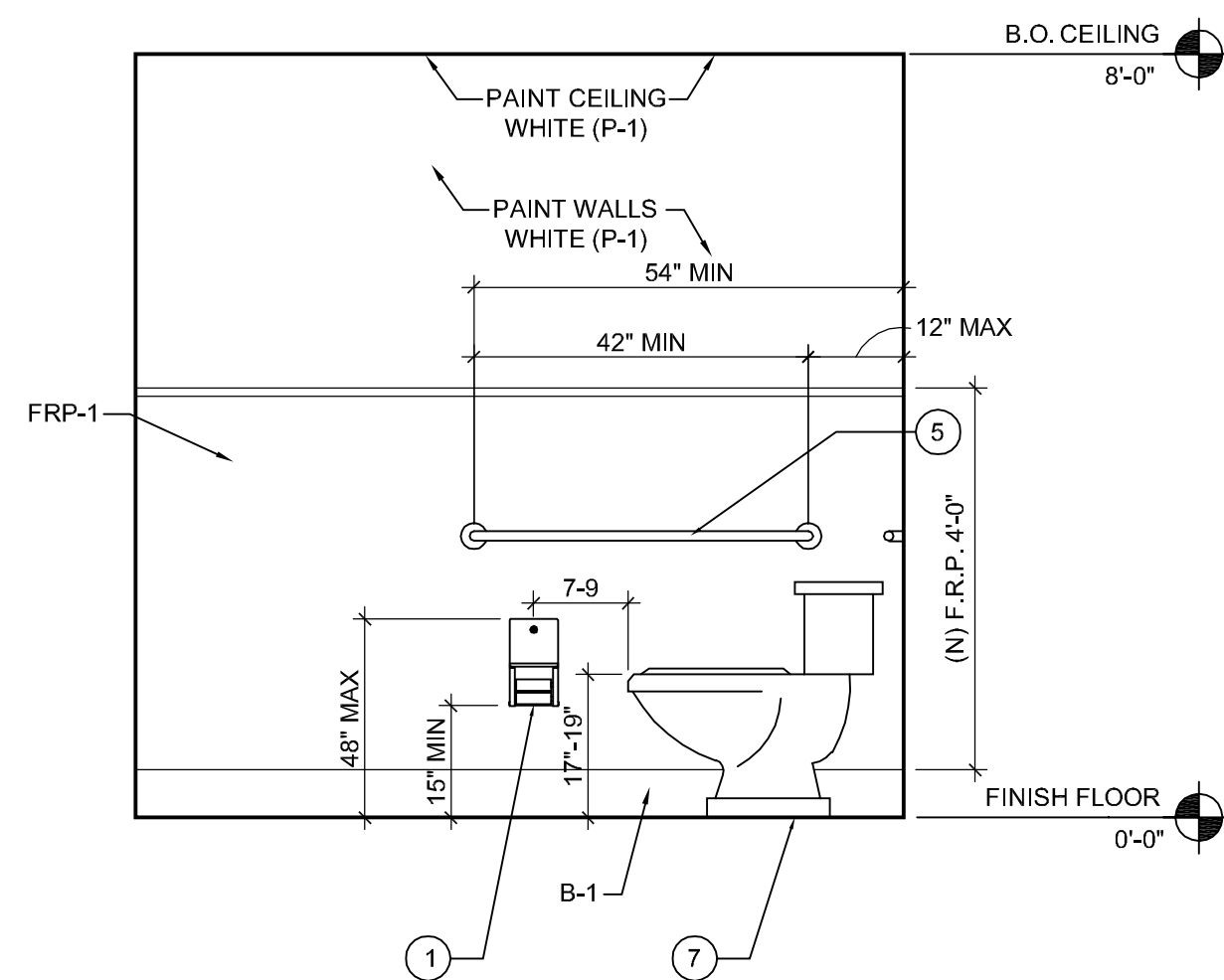


NOTE: GRAB BARS SHALL BE MOUNTED TO SUPPORT MIN. 250 LBS. LOAD. GC TO FURNISH/ INSTALL BLOCKING & MOUNTING HARDWARE AS REQUIRED FOR GRAB BARS

GRAB BAR ANCHOR

6

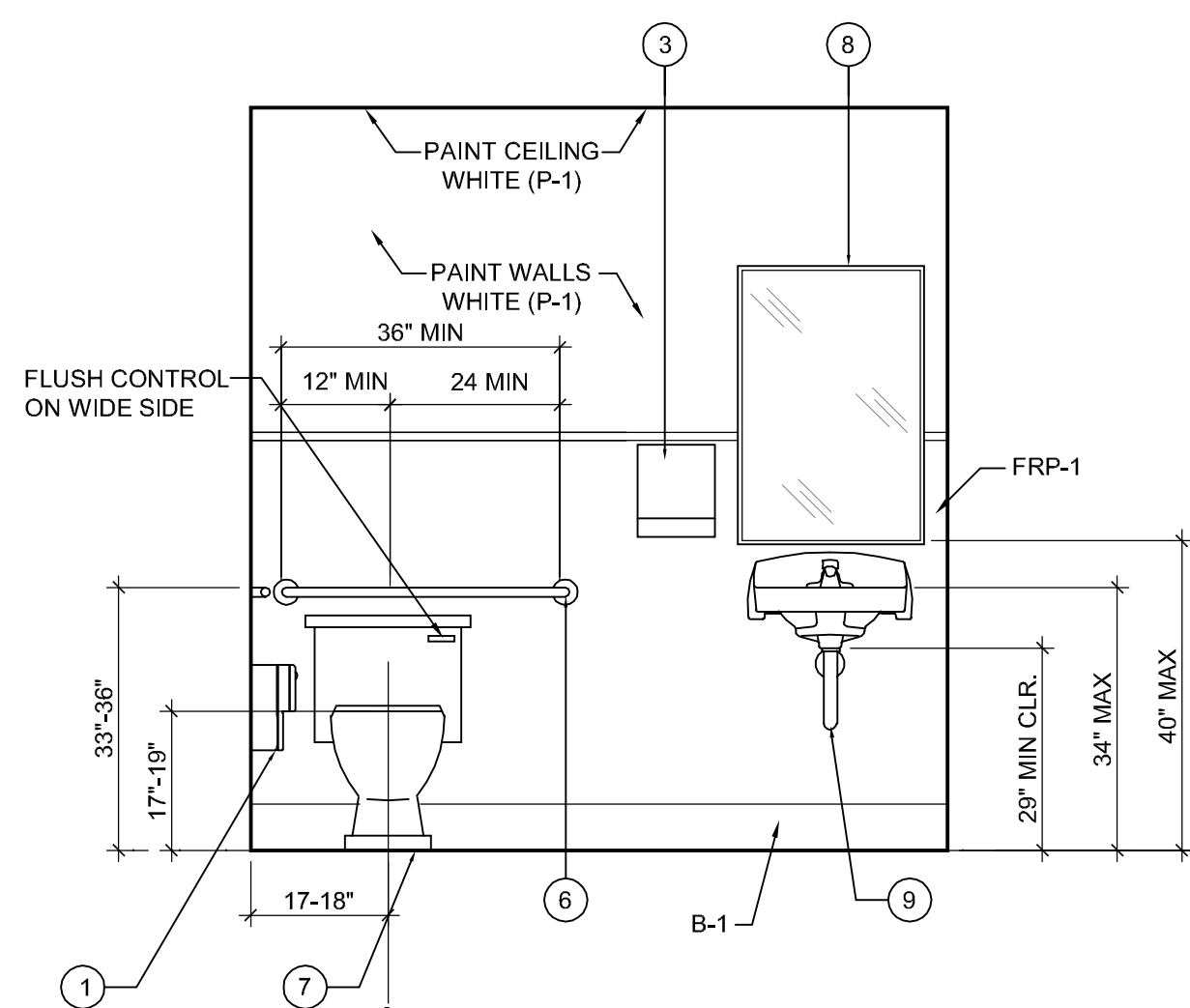
SCALE: 3" = 1'-0"



INT. ELEVATION

5

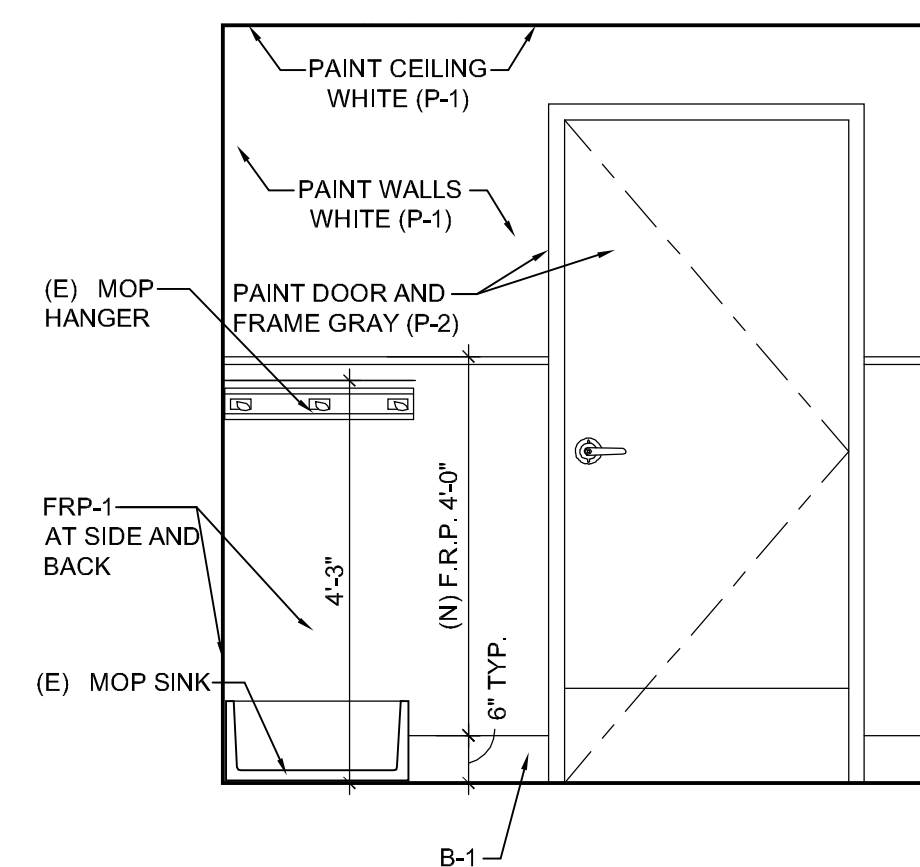
SCALE: 1/2" = 1'-0"



INT. ELEVATION

4

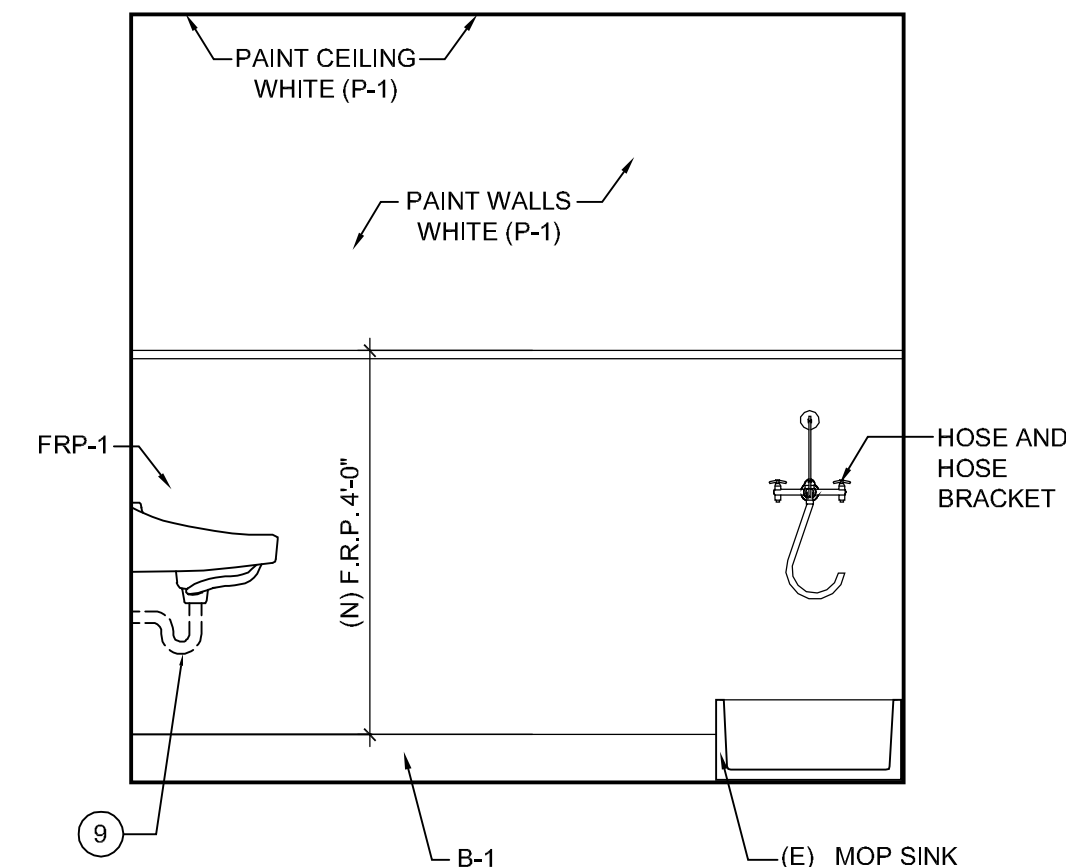
SCALE: 1/2" = 1'-0"



INT. ELEVATION

3

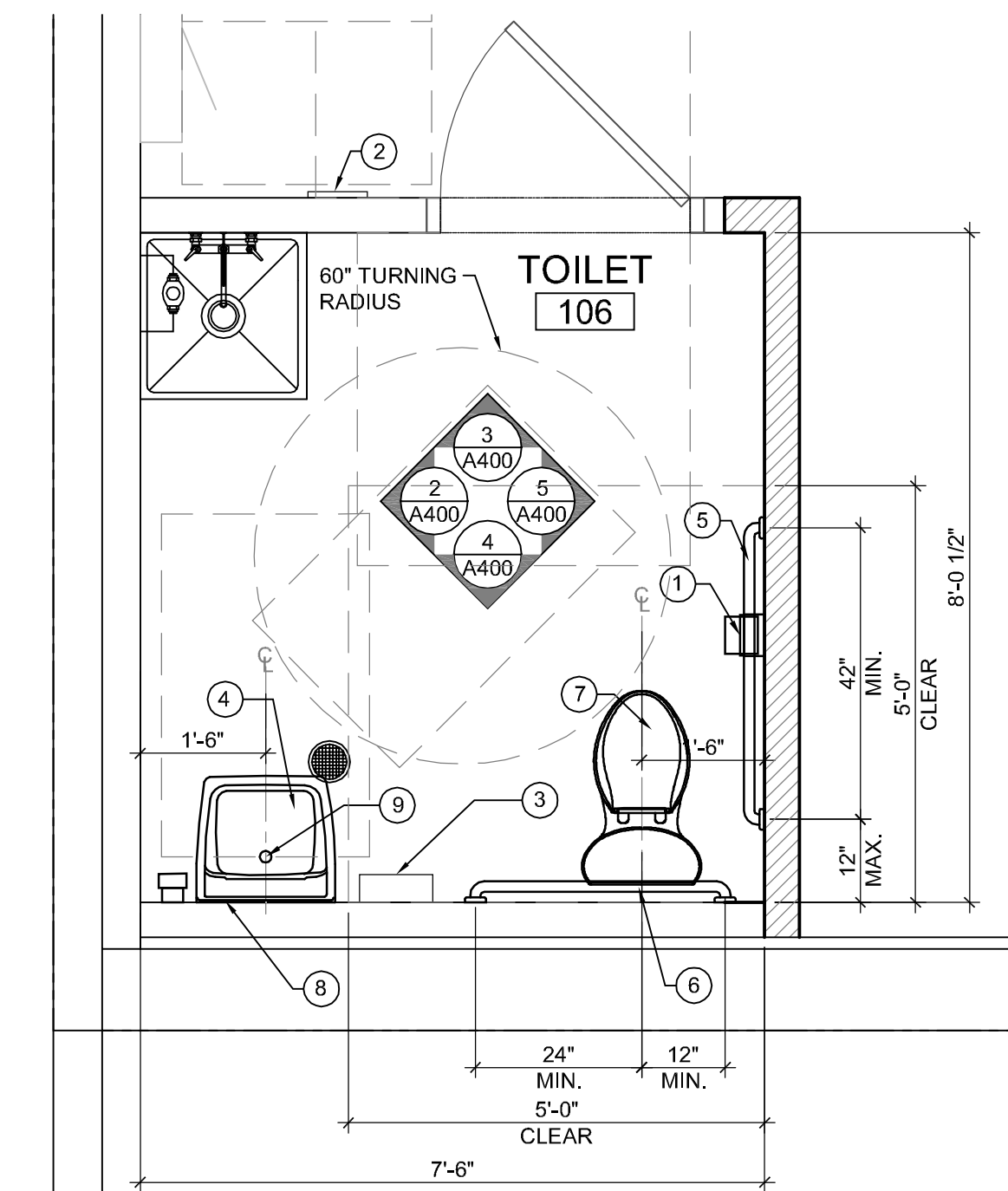
SCALE: 1/2" = 1'-0"



INT. ELEVATION

2

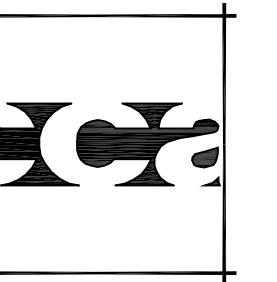
SCALE: 1/2" = 1'-0"



ENLARGED TOILET PLAN

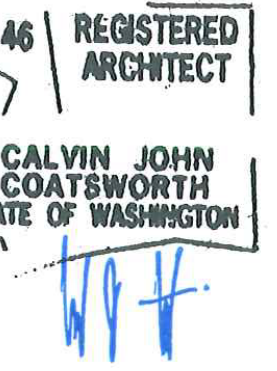
1

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



Carille
Coatsworth
architects

18000 MacArthur Boulevard
Suite 300
Irvine, California 92612
949.833.1330
www.ccarille.com

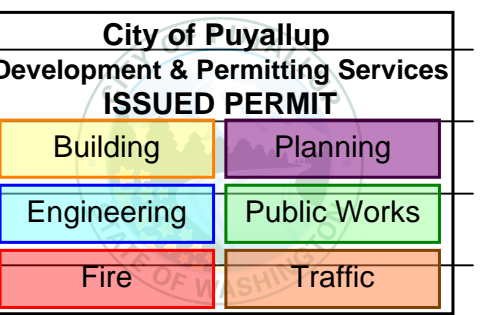


PROJECT NO. 24068
DATE: 05/20/2024
DRAWN BY: AL/LH/AC
SCALE: AS NOTED
FILE:

GROSS AREA 6,719 S.F.

REVISIONS:

CITY COMMENTS
04-01-2024



SHEET TITLE:

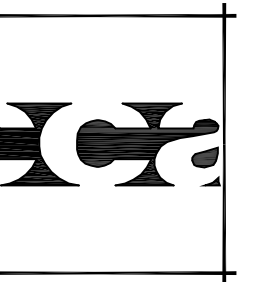
DETAILS AND
SCHEDULES

SHOE PALACE

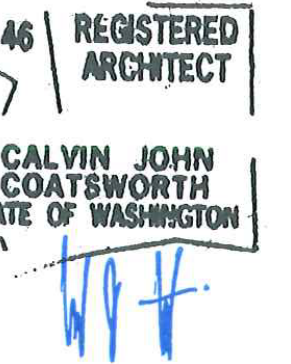
SOUTH HILL MALL
SPACE 410 & 420
3500 S MERIDIAN
PUYALLUP, WA 98373

PRCTI20240836

A400

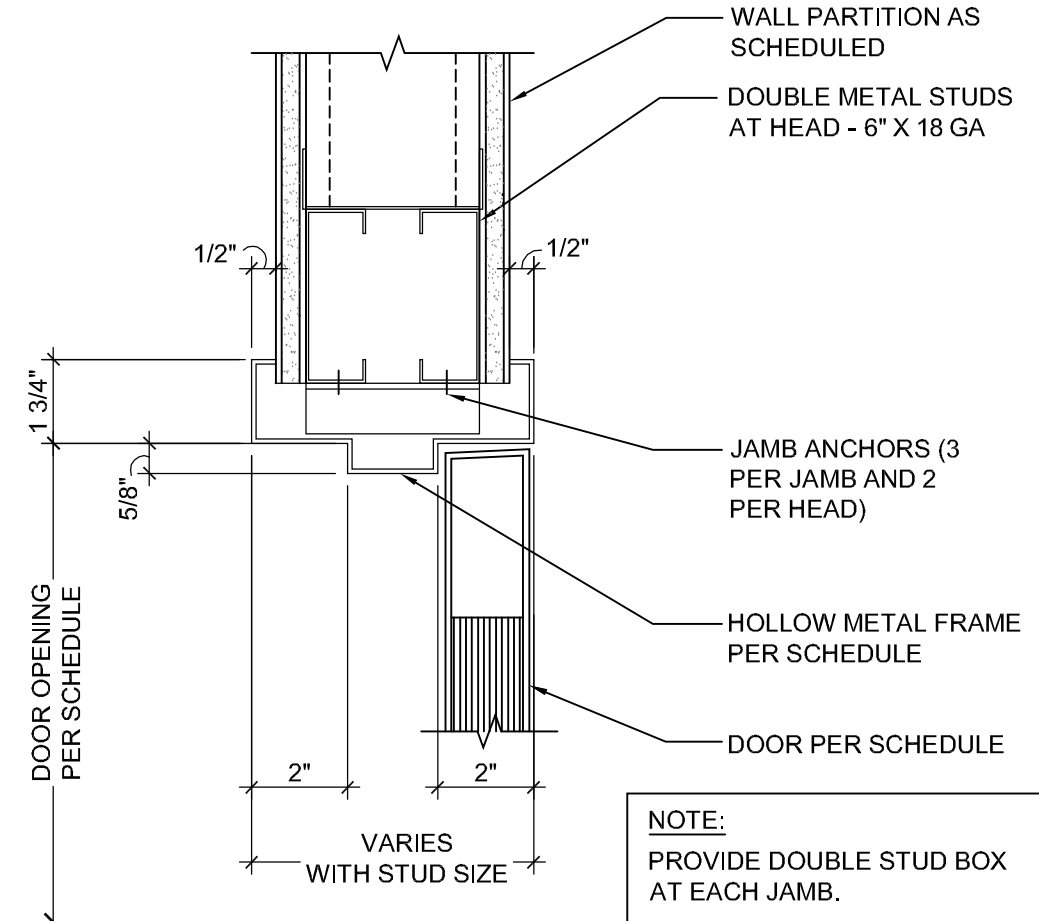


Carlile
Coatsworth
architects
18000 MacArthur Boulevard
Suite 300
Irvine, California 92612
949.833.1330
www.ccarcarchitects.com

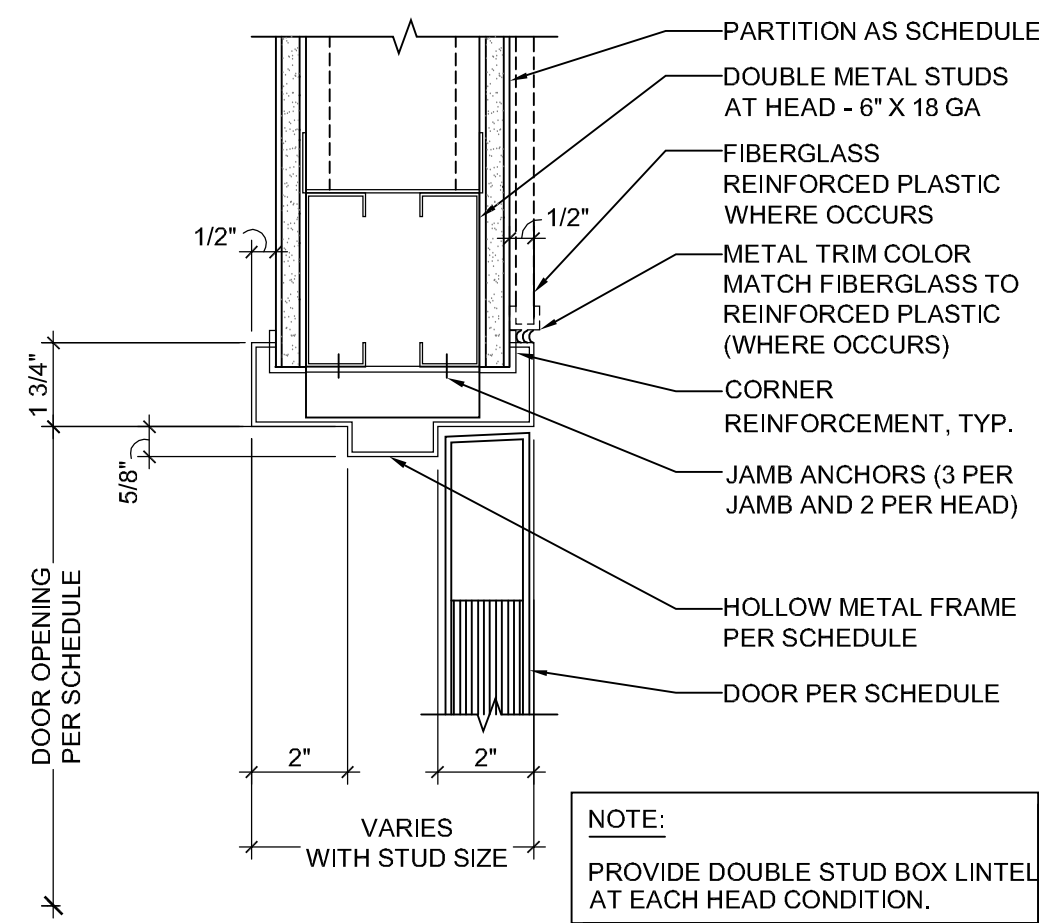


- ALL DOOR HARDWARE SHALL COMPLY WITH FEDERAL AND STATE ACCESSIBILITY REQUIREMENTS.
- ALL DOORS TO BE EQUIPPED W/ LEVER TYPE HANDLES OR PUSH BARS CAPABLE OF OPERATION W/ ONE HAND & SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE.
- THE FORCE REQUIRED TO OPERATE ANY DOOR SHALL BE MAXIMUM 5 LBS FOR EXTERIOR DOORS AND 5 LBS FOR INTERIOR DOORS.
- MOUNTING HEIGHTS OF ALL HARDWARE SHALL BE 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.
- SEE PLAN FOR DIRECTION OF SWING.
- ALL DOORS DESIGNATED "EXIT" SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF ANY SPECIAL KNOWLEDGE OR EFFORT.
- ALL EXPOSED DOOR & FRAME RECESSES (INCLUDING STRIKE PLATES) ARE TO BE FINISHED TO MATCH DOOR OR FRAME FINISH - NO UNFINISHED EXPOSED SURFACES PERMITTED.
- TGC TO SUBMIT MANUF. CUT SHEETS FOR REVIEW/APPROVAL PRIOR TO ORDERING.
- TGC SHALL FURNISH AND INSTALL ALL DOORS COMPLETE WITH ALL HARDWARE AS REQUIRED BY CODE AND/OR SPECIFIC INSTALLATION UNLESS NOTED OTHERWISE.
- IN CASE OF DEMOLITION, ALL HARDWARE ON EXISTING DOORS TO REMAIN SHALL BE REPLACED AS SPECIFIED ON SCHEDULE OR DRAWINGS, UNLESS NOTED OTHERWISE.
- ALL COMPONENTS OF FIRE RATED DR. ASSEMBLIES SHALL BEAR THE LABEL OF AN APPROVED TESTING AGENCY.
- RATED DOORS SHALL BE A TIGHT FITTING SMOKE AND DRAFT CONTROL ASSEMBLY.
- PROVIDE A SIGN ABOVE ALL EXITS FROM THE PREMISES TO READ "THIS DOOR TO REMAIN UNLOCKED WHEN THE BUILDING IS OCCUPIED." LETTERS SHALL BE AT LEAST 1" HIGH AND SHALL BE WHITE ON A CONTRASTING BACKGROUND MOUNTED AT HEAD OF DOOR.
- ALL HARDWARE FINISHES TO BE SATIN CHROME 626 / US26D U.N.O.
- LEVER HANDLE DOOR HARDWARE, THE LEVER OF LEVER ACTUATED LATCHES OR LOCKS SHALL BE CURVED WITH A RETURN TO WITHIN 1/2" INCH OF THE DOOR TO PREVENT CATCHING ON THE CLOTHING OF PERSONS DURING EGRESS.
- DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.

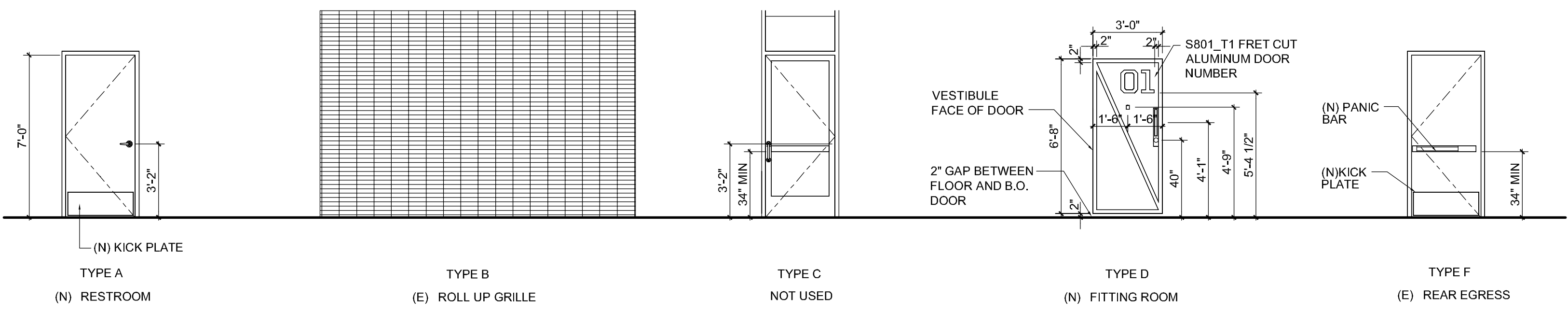
DOOR & HARDWARE NOTES



DOOR HEAD
SCALE: 3" = 1'-0"



DOOR JAMB
SCALE: 3" = 1'-0"



DOOR TYPES

DOOR SCHEDULE

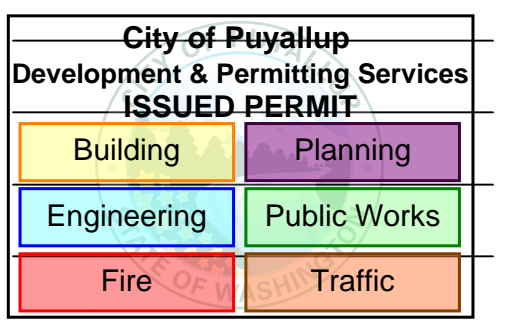
DOOR #	NAME	(N) OR (E)	DOOR				FRAME		HARDWARE	REMARKS
			SIZE	MATERIAL	TYPE	FINISH	MATERIAL	FINISH		
100	ENTRY ROLL-UP GRILLE	(E)	13'-7 1/2" X 8'-11"	AL	B			AL	1	G.C. TO COORDINATE WITH SPCM FOR REPLACEMENT OF EXISTING CYLINDER LOCKS
102A	VESTIBULE	(N)	3'-0" X 7'-0"	-	-			-	-	OPENING
102B	VESTIBULE	(N)	3'-0" X 7'-0"	-	-			-	-	OPENING
103	FITTING ROOM	(N)	3'-0" X 7'-0"	HM	D	P-1		AL	P-3	3 WITH SIGNAGE, FOIO @5'-0" AFF. JAMBS TO BE PAINTED P-3 OPEN TO CEILING ABOVE FITTING ROOM DOOR. DUMMY LEVER CENTER LINE @3'-8" ON INSIDE ONLY. DEADLOCK CENTERLINE @3'-4" GC TO CORE/DRILL DOOR ON SITE FOR HINGES. DOOR AND HARDWARE BY SP. FRAME BY GC
104	REAR EGRESS	(E)	3'-0" X 7'-0"	HM	F	-		HM	4	G.C. TO COORDINATE WITH SPCM FOR LOCK.
104A	REAR EGRESS	(E)	3'-4" X 7'-0"	HM	F	-		HM	4	G.C. TO COORDINATE WITH SPCM FOR LOCK.
104B	REAR	(E)	3'-4" X 7'-0"	EXISTING	EXIST	-		EXISTING		EXISTING DOOR TO REMAIN WELDED SHUT. EXTERIOR DOOR HANDLE TO BE REMOVED.
104C	REAR	(E)	3'-4" X 7'-0"	EXISTING	EXIST	-		EXISTING		EXISTING DOOR TO REMAIN WELDED SHUT. EXTERIOR DOOR HANDLE TO BE REMOVED.
105	ELECTRICAL ROOM	(E)	3'-0" X 7'-0"	EXISTING	EXIST	-		EXISTING		
106	TOILET ROOM	(N)	3'-0" X 7'-0"	HM	A	P-2		AL	P-2	2 G.C. TO COORDINATE WITH SPCM FOR REPLACEMENT OF EXISTING LOCKS. UNDERCUT DOOR BY 1".
107	TOILET ROOM	(E)	3'-0" X 7'-0"	EXISTING	EXIST	P-2		EXISTING	P-2	2 G.C. TO COORDINATE WITH SPCM FOR REPLACEMENT OF EXISTING LOCKS. UNDERCUT DOOR BY 1".

HARDWARE GROUPS

SET #	DESCRIPTION	QUANTITY	MANUFACTURER	MODEL NO.	FINISH	REMARKS
STOREFRONT SET #1	CYLINDER LOCK	1			CLEAR ANOD.	CLEAR SATIN ANODIZED. VERIFY CYLINDER TYPE WITH OWNER.
TOILET SET #2	HINGES	1 PAIR	HAGER	BB1279		
	LOCKSET	1	SCHLAGE	AL40S NEPTUNE	-	BATH PRIVACY LOCK LEVER TYPE
	KICK PLATES	2	-	-	-	12" HIGH BOTH SIDES
	BUTT HINGES		HAGER OR EQUAL		US26D	4 1/2" X 4 1/2" (3 EACH)
FITTING ROOM SET #3	LOCKSET		CORBIN-RUSSWIN	CL3857		LEVER STYLE, STOREROOM TYPE
	SILENCERS	1 EACH	IVES OR EQUAL	SR64		
	FLOOR STOP	1 EACH	GLEN JOHNSON	#1153M	US26D	
	FINGER GUARD		G.C.			
	COAT HOOK		BID			
REAR EGRESS SET #4	PANIC		DETEX	V40	-	VERIFY SPEC WITH OWNER PRIOR TO ORDERING
	CLOSER	1	LCN	4011	-	
	KICK PLATES	2	-	-	-	12" HIGH BOTH SIDES
	LATCH PROTECTOR	1	HAGER	-	-	MIN. 10" LENGTH STAINLESS STEEL
	SECURITY BAR	1	EXIT SECURITY INC.	SB-01-0036	-	FURNISHED BY OWNER, INSTALLED BY G.C.
	SIGN	1	-	-	-	TGC TO PROVIDE SIGN(S) WITH TENANT NAME & SUITE NUMBER. SEE REQUIRED VENDOR LIST. SEE 6/A0.2
	THRESHOLD	1	NGP	#425	-	MILL ALUM
	DOOR BUZZER					F&I BY TGC
PUSH BAR					BASIC PUSH BAR FROM HOME DEPOT (NO DETEX)	

PROJECT NO. 24068
DATE: 05/20/2024
DRAWN BY: AL/LH/AC
SCALE: AS NOTED
FILE:

REVISIONS:

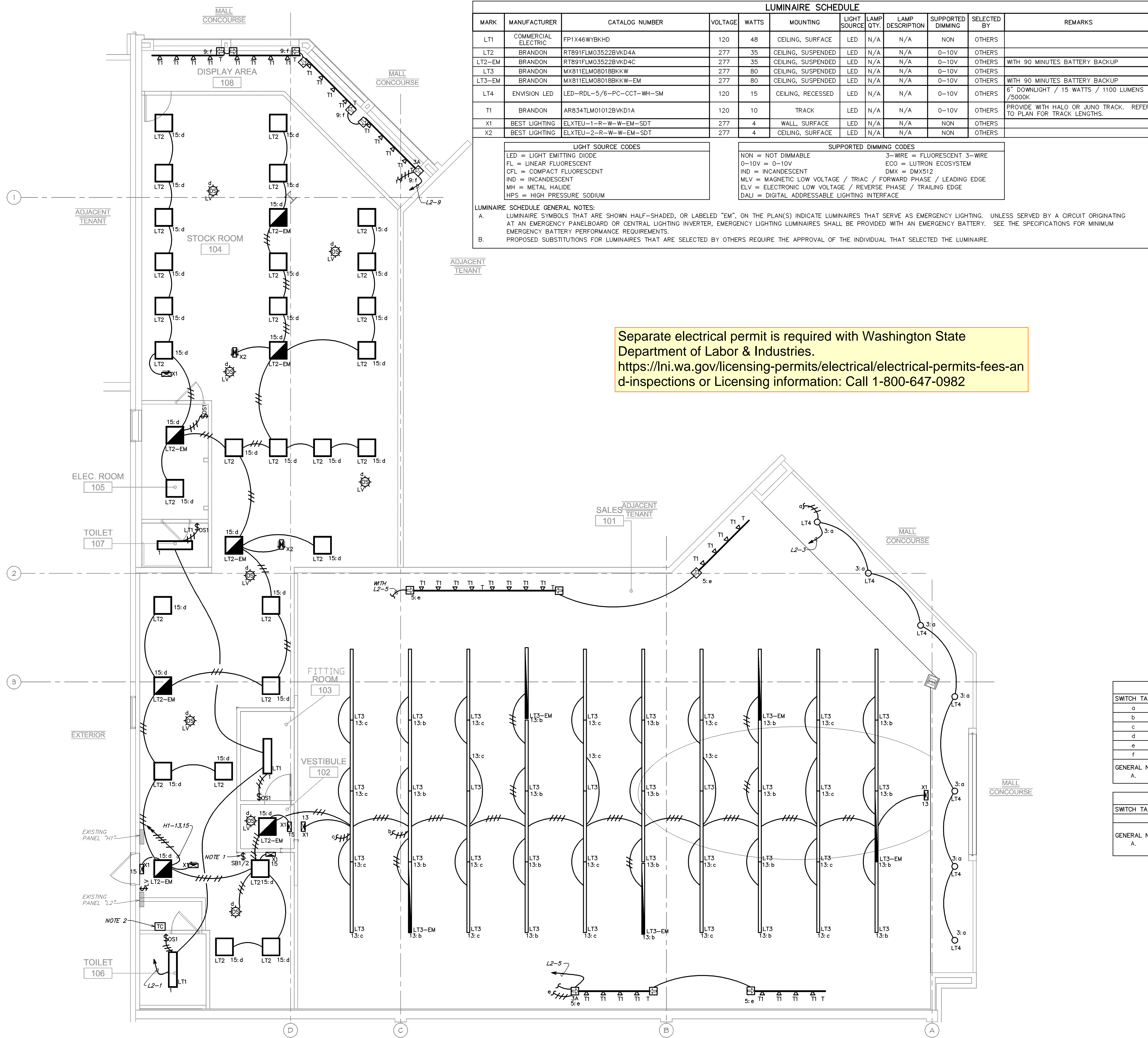


SHEET TITLE: DETAILS AND SCHEDULES

SHOE PALACE
SOUTH HILL MALL
SPACE 410 & 420
3500 S MERIDIAN
PUYALLUP, WA 98373

PRCT120240836

A401



LUMINAIRE SCHEDULE											
MARK	MANUFACTURER	CATALOG NUMBER	VOLTAGE	WATTS	MOUNTING	LIGHT SOURCE	LAMP QTY.	LAMP DESCRIPTION	SUPPORTED DIMMING	SELECTED BY	REMARKS
LT1	COMMERCIAL ELECTRIC	FP1X46WYBKHD	120	48	CEILING, SURFACE	LED	N/A	N/A	NON	OTHERS	
LT2	BRANDON	RT891FLM03522BKVD4A	277	35	CEILING, SUSPENDED	LED	N/A	N/A	0-10V	OTHERS	WITH 90 MINUTES BATTERY BACKUP
LT2-EM	BRANDON	RT891FLM03522BKVD4C	277	35	CEILING, SUSPENDED	LED	N/A	N/A	0-10V	OTHERS	
LT3	BRANDON	MX811ELM08018BKKW	277	80	CEILING, SUSPENDED	LED	N/A	N/A	0-10V	OTHERS	WITH 90 MINUTES BATTERY BACKUP
LT3-EM	BRANDON	MX811ELM08018BKKW-EM	277	80	CEILING, SUSPENDED	LED	N/A	N/A	0-10V	OTHERS	6" DOWNLIGHT / 15 WATTS / 1100 LUMENS / 5000K
LT4	ENVISION LED	LED-RDL-5/6-PC-CCT-WH-SM	120	15	CEILING, RECESSED	LED	N/A	N/A	0-10V	OTHERS	PROVIDE WITH HALO OR JUNO TRACK. REFER TO PLAN FOR TRACK LENGTHS.
T1	BRANDON	AR834TLM01012BKVD1A	120	10	TRACK	LED	N/A	N/A	0-10V	OTHERS	
X1	BEST LIGHTING	ELXTEU-1-R-W-W-EM-SDT	277	4	WALL, SURFACE	LED	N/A	N/A	NON	OTHERS	
X2	BEST LIGHTING	ELXTEU-2-R-W-W-EM-SDT	277	4	CEILING, SURFACE	LED	N/A	N/A	NON	OTHERS	

LIGHT SOURCE CODES		SUPPORTED DIMMING CODES	
LED	= LIGHT EMITTING DIODE	NON	= NOT DIMMABLE
FL	= LINEAR FLUORESCENT	0-10V	= 0-10V
CFL	= COMPACT FLUORESCENT	3-WIRE	= FLUORESCENT 3-WIRE
IND	= INCANDESCENT	ECO	= LUTRON ECOSYSTEM
MHV	= MAGNETIC LOW VOLTAGE / TRIAC / FORWARD PHASE / LEADING EDGE	DMX	= DMX512
MH	= METAL HALIDE	ELV	= ELECTRONIC LOW VOLTAGE / REVERSE PHASE / TRAILING EDGE
HPS	= HIGH PRESSURE SODIUM	DALI	= DIGITAL ADDRESSABLE LIGHTING INTERFACE

LUMINAIRE SCHEDULE GENERAL NOTES:

A. LUMINAIRE SYMBOLS THAT ARE SHOWN HALF-SHADED, OR LABELED "EM", ON THE PLAN(S) INDICATE LUMINAIRES THAT SERVE AS EMERGENCY LIGHTING. NEVER SERVED BY A CIRCUIT ORIGINATING AT AN EMERGENCY PANELBOARD OR CENTRAL LIGHTING INVERTER, EMERGENCY LIGHTING LUMINAIRES SHALL BE PROVIDED WITH AN EMERGENCY BATTERY. SEE THE SPECIFICATIONS FOR MINIMUM EMERGENCY BATTERY PERFORMANCE REQUIREMENTS.

B. PROPOSED SUBSTITUTIONS FOR LUMINAIRES THAT ARE SELECTED BY OTHERS REQUIRE THE APPROVAL OF THE INDIVIDUAL THAT SELECTED THE LUMINAIRE.

Separate electrical permit is required with Washington State Department of Labor & Industries.
<https://lni.wa.gov/licensing-permits/electrical/electrical-permits-fees-and-inspections> or Licensing information: Call 1-800-647-0982

GENERAL ELECTRICAL EXISTING CONDITIONS NOTES:

A. ANY EXISTING CONDITIONS INDICATED IN THIS SET OF DRAWINGS ARE BASED ON INFORMATION PROVIDED BY OTHERS AND POSSIBLE LIMITED FIELD VERIFICATION. ADJUST FOR ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.

B. VISIT THE PROJECT SITE, REVIEW EXISTING CONDITIONS AGAINST THE CONTRACT DOCUMENTS, AND BECOME FAMILIAR WITH THE WORK PRIOR TO BIDDING AND START OF THE CONTRACT. IT IS AN ACKNOWLEDGMENT THAT THE CONTRACTOR HAS VISITED THE PROJECT SITE AND HAS REVIEWED THE EXISTING CONDITIONS AS ACCEPTED.

C. DEMOLISH ANY EXISTING EQUIPMENT, DEVICES, AND LUMINAIRES AS INDICATED ON THIS DRAWING. THE CONTRACTOR SHALL ALLOW FOR INSTALLATION AND CONSTRUCTION OF THE NEW WORK. REMOVE ALL EQUIPMENT, DEVICES, LUMINAIRES, CONDUITS, SUPPORTS, HANGERS, ETC. THAT ARE NOT SHOWN AND ARE REQUIRED TO BE REMOVED IN ORDER TO COMPLETE THE NEW WORK.

D. ELECTRICAL CIRCUITS THAT ARE TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY. CONDUITS SHALL BE REMOVED FROM THE ITEM TO BE DEMOLISHED TO THE SOURCE OVERCURRENT DEVICE. RACEWAYS WHICH ARE INSTALLED IN OR BELOW FLOORS OR WITHIN WALLS MAY BE ABANDONED, BUT ALL OVERHEAD OR EXPOSED RACEWAYS SHALL BE REMOVED. EXPOSED RACEWAYS TO BE ABANDONED SHALL BE REMOVED AND SHALL BE CUT OR CHISELED AT LEAST 2" INTO THE WALL OR FLOOR AND THE OPENING GROUDED SMOOTH.

E. THE OWNER SHALL HAVE SALVAGE RIGHTS TO ANY ITEMS THAT ARE TO BE DEMOLISHED. THOSE ITEMS THAT THE OWNER WISHES TO SALVAGE SHALL BE CAREFULLY REMOVED AND STORED IN A LOCATION AS DIRECTED BY THE OWNER. ALL OTHER ITEMS OF DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.

F. PROVIDE TEMPORARY CIRCUITS AND CONNECTIONS TO EQUIPMENT, LUMINAIRES, OR DEVICES IN AREAS OF THE FACILITY THAT ARE TO REMAIN IN OPERATION AS REQUIRED TO MAINTAIN THOSE AREAS IN COMPLETE OPERATION.

G. MAINTAIN CONTINUITY OF EXISTING CIRCUITS AS REQUIRED TO PROVIDE POWER TO REMAINING EQUIPMENT, DEVICES, AND LUMINAIRES THAT ARE NOT BEING REMOVED.

H. PROVIDE BLANK COVERPLATES FOR EXISTING EMPTY DEVICE BOXES OR JUNCTION BOXES THAT MUST REMAIN, SUCH AS FOR CIRCUITS THAT MUST BE MAINTAINED TO OTHER AREAS.

I. LUMINAIRES MARKED "EX" ARE EXISTING LUMINAIRES THAT ARE TO REMAIN IN PLACE. ALL EXISTING LUMINAIRES WITHIN LIMITS OF CONSTRUCTION SHALL BE REPAIRED TO A LIKE-NEW CONDITION, THOROUGHLY CLEANED, AND RELAMPED. ANY EXISTING LUMINAIRES THAT ARE DAMAGED BEYOND REPAIR SHALL BE REPLACED WITH AN IDENTICAL LUMINAIRE.

GENERAL ELECTRICAL NOTES:

A. WHERE THE MECHANICAL DESIGN UTILIZES A PLENUM RETURN AIR CEILING, ALL EQUIPMENT, DEVICES, AND MATERIALS INSTALLED WITHIN THE PLENUM RETURN CEILING MUST MEET THE FLAME SPREAD AND SMOKE DEVELOPED RATINGS OF 25/50 AND BE APPROVED FOR USE IN PLENUM RETURN CEILING. COORDINATE PLENUM CEILING LOCATIONS WITH THE MECHANICAL CONTRACTOR. LUMINAIRES THAT ARE MANUFACTURED WITH A METAL HOUSING MEET THIS REQUIREMENT AND ARE NOT REQUIRED TO BE PLENUM RATED UNLESS INDICATED OTHERWISE.

B. COORDINATE ALL DEVICE LOCATIONS AND CIRCUIT ROUTING WITHIN ANY MILLWORK WITH MILLWORK VENDOR PRIOR TO ROUGH-IN.

C. COORDINATE THE CONNECTIONS OF ALL EQUIPMENT PROVIDED BY OTHERS WITH THE CONTRACTOR PROVIDING THE EQUIPMENT PRIOR TO ROUGH-IN. THIS INCLUDES, BUT IS NOT LIMITED TO, MECHANICAL EQUIPMENT, KITCHEN EQUIPMENT, AUDIO/VISUAL EQUIPMENT, FIRE SUPPRESSION SYSTEM EQUIPMENT, FIRE ALARM EQUIPMENT, ETC. PROVIDE THE APPROPRIATE DISCONNECTING MEANS FOR, AND TO MAKE THE FINAL CONNECTION TO, ANY HARDWIRED EQUIPMENT. THE ELECTRICAL CONTRACTOR IS ALSO RESPONSIBLE TO PROVIDE AN APPROPRIATE CORD AND PLUG FOR ANY CORD-AND-PLUG CONNECTED EQUIPMENT THAT IS NOT EQUIPPED WITH AN INTEGRAL CORD AND PLUG.

D. SEE PANEL SCHEDULES FOR INFORMATION ON CIRCUITS THAT ARE TO BE ROUTED THROUGH CONTACTORS OR RELAYS FOR CONTROL.

E. ALL EQUIPMENT, DEVICES, AND LUMINAIRES SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED. EQUIPMENT MOUNTED OUTDOORS SHALL BE NEMA 3R. DEVICES MOUNTED IN DAMP OR WET LOCATIONS SHALL BE WEATHERPROOF. RECEPTACLES RATED 15- OR 20-AMPS AND 120 VOLTS WHICH ARE LOCATED IN DAMP OR WET LOCATIONS SHALL BE GFCI PROTECTED AND EQUIPPED WITH A SUITABLE WEATHERPROOF COVERPLATE (WHILE-IN-USE IN WET LOCATIONS).

F. ALL LUGS, TERMINALS, ETC., IN ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE LISTED FOR A MINIMUM OF 75 DEGREE C CONDUCTORS. TERMINATIONS LISTED FOR ONLY 60 DEGREE C CONDUCTORS ARE NOT PERMITTED.

G. CIRCUITS SERVING EMERGENCY LIGHTING EQUIPMENT SUCH AS EMERGENCY BATTERIES SHALL NOT SHARE A NEUTRAL (SHALL NOT BE PART OF A MULTIWIRE BRANCH CIRCUIT) WITH ANY OTHER CIRCUIT. PROVIDE A SEPARATE NEUTRAL FOR EVERY CIRCUIT THAT SERVES EMERGENCY LIGHTING EQUIPMENT.

H. ALTHOUGH NOT SPECIFICALLY SHOWN, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED LOW VOLTAGE WIRING AND DATA CABLING, PER THE MANUFACTURER'S RECOMMENDATIONS, FOR A COMPLETE, FUNCTIONAL LIGHTING CONTROL SYSTEM.

I. ALTHOUGH NOT SPECIFICALLY SHOWN, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED WIRING AND DATA CABLING, INCLUDING ALL 0-10V CONTROL WIRING WHERE APPLICABLE, PER THE MANUFACTURER'S RECOMMENDATIONS FOR A COMPLETE, FUNCTIONAL DIMMING SYSTEM.

J. REFER TO ARCHITECTURAL PLANS FOR EXACT LUMINAIRE MOUNTING HEIGHTS.

KEYED NOTES:

1. PROVIDE LIGHTING CONTROL SWITCHBANK(S). SEE SWITCHBANK SCHEDULE(S) FOR ADDITIONAL INFORMATION. LOWERCASE LETTERS ADJACENT TO LUMINAIRES ON PLANS CORRESPOND TO THE ASSOCIATED SWITCH ON THE SWITCHBANK SCHEDULE. FIELD VERIFY EXACT LOCATION, CONFIRM SWITCHBANK(S) WILL FIT WITHIN THIS DESIGNATED AREA AND STACK MULTIPLE SWITCHBANKS WITH FEWER GANGS, AT THIS LOCATION IF A SINGLE SWITCHBANK WILL NOT FIT WITHIN THIS DESIGNATED AREA.

2. PROVIDE DIGITAL TIMELOCK FOR AUTOMATIC LIGHTING CONTROL. REFER TO DETAIL 2/E3.0 FOR ADDITIONAL INFORMATION.

SWITCHBANK "SB1" SCHEDULE		
SWITCH TAG	ZONE DESCRIPTION	CONTROL TYPE
a	STOREFRONT DOWNLIGHTS	SPST TOGGLE SWITCH
b	SALES LTS	SPST TOGGLE SWITCH
c	SALES LTS	SPST TOGGLE SWITCH
d	BOH LTS	LOW VOLTAGE DIGITAL SWITCH
e	TRACK LTS	SPST TOGGLE SWITCH
f	DISPLAY TRACK LTS	SPST TOGGLE SWITCH

GENERAL NOTES:
A. PROVIDE BOX PARTITIONS BETWEEN CONTROLS OF DIFFERING VOLTAGES.

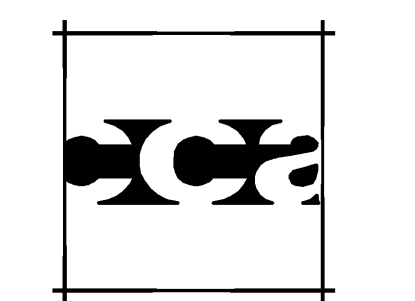
SWITCHBANK "SB2" SCHEDULE		
SWITCH TAG	ZONE DESCRIPTION	CONTROL TYPE
	TIMECLOCK OVERRIDE	TIMED OVERRIDE SWITCH

GENERAL NOTES:
A. PROVIDE BOX PARTITIONS BETWEEN CONTROLS OF DIFFERING VOLTAGES.

LIGHTING PLAN
SCALE: 3/16" = 1'-0"

LEGEND
 — EXISTING
 — NEW WORK
 ⊕ NEW TO EXISTING CONNECTION

ALL EXPOSED CONDUIT TO BE ROUTED TIGHT TO DECK.



Carlie Coatsworth architects
 18600 MacArthur Boulevard Suite 300
 Irvine, California 92612
 949.833.1930
 www.carliecoatsworth.com



PROJECT NO. 24068
DATE: 05/09/2024
DRAWN BY: SEI
SCALE: AS NOTED
FILE:
GROSS AREA 6,719 S.F.

REVISIONS:

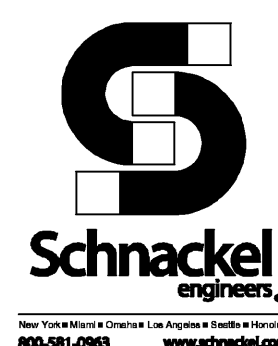
City of Puyallup
 Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

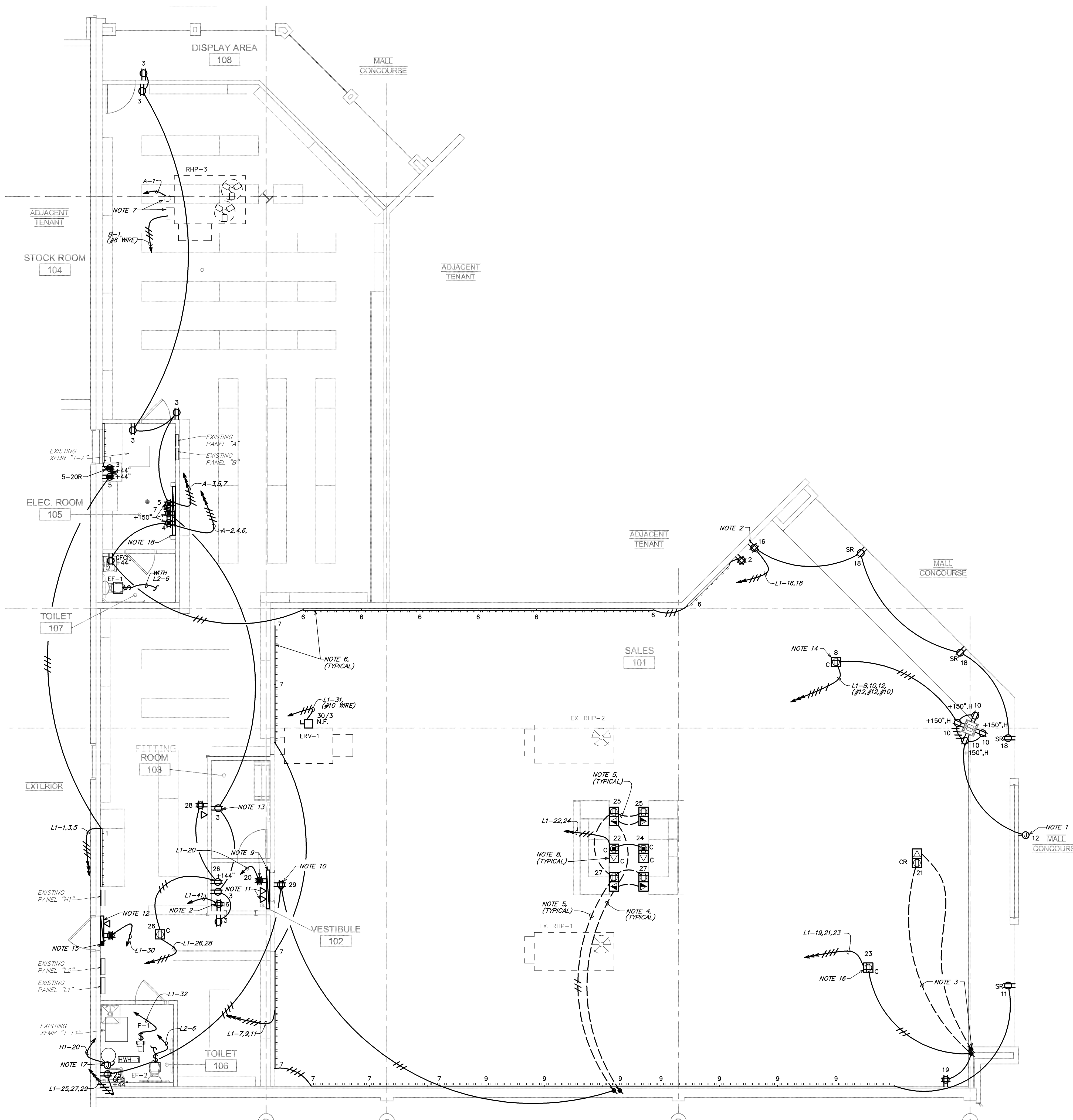
SHEET TITLE:
LIGHTING PLAN

SHOE PALACE
 SOUTH HILL MALL
 SPACE 410 & 420
 3500 S MERIDIAN
 PUYALLUP, WA 98373

PRCTI20240836



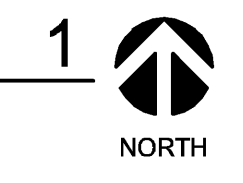
E1.0



- GENERAL ELECTRICAL EXISTING CONDITIONS NOTES:**
- ANY EXISTING CONDITIONS INDICATED IN THIS SET OF DRAWINGS ARE BASED ON INFORMATION PROVIDED BY OTHERS AND POSSIBLE LIMITED FIELD VERIFICATION. ADJUST FOR ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.
 - VISIT THE PROJECT SITE, REVIEW EXISTING CONDITIONS AGAINST THE CONTRACT DOCUMENTS, AND BECOME FAMILIAR WITH THE WORK PRIOR TO BIDDING AND START OF THE WORK. SIGNING THE CONTRACT IS AN ACKNOWLEDGEMENT THAT THE SITE VISIT HAS BEEN COMPLETED AND THE EXISTING CONDITIONS ARE ACCEPTED.
 - DEMOLISH ANY EXISTING EQUIPMENT, DEVICES, AND LUMINAIRES AS INDICATED AND/OR AS REQUIRED TO ALLOW FOR INSTALLATION AND CONSTRUCTION OF THE NEW WORK. REMOVE ALL EQUIPMENT, DEVICES, LUMINAIRES, CONDUITS, SUPPORTS, HANGERS, ETC. THAT ARE NOT SHOWN AND ARE REQUIRED TO BE REMOVED IN ORDER TO COMPLETE THE NEW WORK.
 - ELECTRICAL CIRCUITS THAT ARE TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY. CONDUCTORS SHALL BE REMOVED FROM THE ITEM TO BE DEMOLISHED TO THE SOURCE OVERCURRENT DEVICE. RACEWAYS WHICH ARE INSTALLED IN OR BELOW FLOORS OR WITHIN WALLS MAY BE ABANDONED, BUT ALL OVERHEAD OR EXPOSED RACEWAYS SHALL BE REMOVED. EXPOSED RACEWAYS TO BE ABANDONED SHALL BE REMOVED AND SHALL BE CUT OR CHISELED AT LEAST 2" INTO THE WALL OR FLOOR AND THE OPENING GROUDED SMOOTH.
 - THE OWNER SHALL HAVE SALVAGE RIGHTS TO ANY ITEMS THAT ARE TO BE DEMOLISHED. THOSE ITEMS THAT THE OWNER WISHES TO SALVAGE SHALL BE CAREFULLY REMOVED AND STORED IN A LOCATION AS DIRECTED BY THE OWNER. ALL OTHER ITEMS OF DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
 - PROVIDE TEMPORARY CIRCUITS AND CONNECTIONS TO EQUIPMENT, LUMINAIRES, OR DEVICES IN AREAS OF THE FACILITY THAT ARE TO REMAIN IN OPERATION AS REQUIRED TO MAINTAIN THOSE AREAS IN COMPLETE OPERATION.
 - MAINTAIN CONTINUITY OF EXISTING CIRCUITS AS REQUIRED TO PROVIDE POWER TO REMAINING EQUIPMENT, DEVICES, AND LUMINAIRES THAT ARE NOT BEING REMOVED.
 - PROVIDE BLANK COVERPLATES FOR EXISTING EMPTY DEVICE BOXES OR JUNCTION BOXES THAT MUST REMAIN, SUCH AS FOR CIRCUITS THAT MUST BE MAINTAINED TO OTHER AREAS.
 - REMOVE ALL ABANDONED TELECOMMUNICATIONS CABLING.
- GENERAL ELECTRICAL NOTES:**
- WHERE THE MECHANICAL DESIGN UTILIZES A PLENUM RETURN AIR CEILING DESIGN, ALL EQUIPMENT AND MATERIALS INSTALLED WITHIN THE PLENUM RETURN CEILING MUST MEET THE FLAME SPREAD AND SMOKE DEVELOPED RATINGS OF 25/50 AND BE APPROVED FOR USE IN PLENUM RETURN CEILING. COORDINATE PLENUM CEILING LOCATIONS WITH THE MECHANICAL CONTRACTOR.
 - COORDINATE ALL DEVICE LOCATIONS AND CIRCUIT ROUTING WITHIN ANY MILLWORK WITH MILLWORK VENDOR PRIOR TO ROUGH-IN.
 - COORDINATE THE CONNECTIONS OF ALL EQUIPMENT PROVIDED BY OTHERS WITH THE CONTRACTOR PROVIDING THE EQUIPMENT PRIOR TO ROUGH-IN. THIS INCLUDES, BUT IS NOT LIMITED TO, MECHANICAL EQUIPMENT, KITCHEN EQUIPMENT, AUDIO/VISUAL EQUIPMENT, FIRE SUPPRESSION SYSTEM EQUIPMENT, FIRE ALARM EQUIPMENT, ETC. PROVIDE THE APPROPRIATE DISCONNECTING MEANS FOR, AND TO MAKE THE FINAL CONNECTION TO, ANY HARDWIRED EQUIPMENT. THE ELECTRICAL CONTRACTOR IS ALSO RESPONSIBLE TO PROVIDE AN APPROPRIATE CORD AND PLUG FOR ANY CORD-AND-PLUG CONNECTED EQUIPMENT THAT IS NOT EQUIPPED WITH AN INTEGRAL CORD AND PLUG.
 - SEE PANEL SCHEDULES FOR INFORMATION ON CIRCUITS THAT ARE TO BE ROUTED THROUGH CONTACTORS OR RELAYS FOR CONTROL.
 - ALL EQUIPMENT, DEVICES, AND LUMINAIRES SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED. EQUIPMENT MOUNTED OUTDOORS SHALL BE NEMA 3R. DEVICES MOUNTED IN DAMP OR WET LOCATIONS SHALL BE WEATHERPROOF. RECEPTACLES RATED 15- OR 20-AMPS AND 120 VOLTS WHICH ARE LOCATED IN DAMP OR WET LOCATIONS SHALL BE GFCI PROTECTED AND EQUIPPED WITH A SUITABLE WEATHERPROOF COVERPLATE (WHILE-IN-USE IN WET LOCATIONS).
 - ALL LUGS, TERMINALS, ETC. IN ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE LISTED FOR A MINIMUM OF 75 DEGREE C CONDUCTORS. TERMINATIONS LISTED FOR ONLY 60 DEGREE C CONDUCTORS ARE NOT PERMITTED.
 - COORDINATE WITH ALL OTHER TRADES TO PROVIDE ALL CODE-REQUIRED CLEARANCES AROUND ELECTRICAL CONNECTION AND CONTROL COMPARTMENTS IN ALL EQUIPMENT WHICH IS PROVIDED BY OTHERS AND CONNECTED BY THE ELECTRICAL CONTRACTOR SUCH AS, BUT NOT LIMITED TO, HVAC EQUIPMENT.

- KEYED NOTES:**
- PROVIDE FINAL CONNECTION TO SIGNAGE. COORDINATE LOCATION AND ALL REQUIREMENTS WITH SIGN CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE AN APPROPRIATE LOCAL DISCONNECTING MEANS MOUNTED IN AN ACCESSIBLE, INCONSPICUOUS LOCATION THAT IS WITHIN SIGHT OF THE SIGN. EACH SIGN CIRCUIT SHALL HAVE A SEPARATE NEUTRAL AND SEPARATE EQUIPMENT GROUNDING CONDUCTOR.
 - PROVIDE ORANGE QUADRIPLEX RECEPTACLE FOR DJ EQUIPMENT.
 - STUB 1" EMT CONDUIT WITH PULL STRING UP TO 12'-0" A.F.F. OR 8" ABOVE WALL FRAMING, WHICHEVER IS HIGHER.
 - PROVIDE 1-1/2" EMT CONDUIT WITH (4) CAT 5 CABLES FOR CASHWRAP DATA.
 - PROVIDE APPROPRIATELY SIZED EMT CONDUIT FOR CASHWRAP POWER.
 - PLUGMOLD WITH 9" SPACED SINGLE RECEPTACLES AT 12'-0" A.F.F. "LEGEND" PLUGMOLD MULTIOUTLET SYSTEMS OR EQUAL. WIRING THROUGH TIMECLOCK. KEEP 3" AWAY FROM CORNER. VERIFY WITH GENERAL CONTRACTOR FOR EXACT REQUIREMENTS.
 - DISCONNECT SWITCH AND WEATHERPROOF GFCI SERVICE RECEPTACLE ARE PROVIDED BY EQUIPMENT MANUFACTURER. INTEGRAL WITH EQUIPMENT. PROVIDE CIRCUITS AND FINAL CONNECTIONS AS INDICATED.
 - PROVIDE (1) CAT 5 CABLE FOR HANGING SIGN OVER CASHWRAP.
 - GENERAL CONTRACTOR SHALL INSTALL THE RECEPTACLE ON 4" WIDE & 2" HIGH PLYWOOD ABOVE THE SERVICE DOOR WITHIN 4 WEEKS INTO CONSTRUCTION FOR SHOE PALACE. SUB-CONTRACTOR TO INSTALL OUTLET ABOVE SHELVES. SEE DETAIL ON ARCHITECTURAL PLAN 3/A1.1. VERIFY EXACT LOCATION WITH OWNER, CONSTRUCTION MANAGER, AND SUB-CONTRACTOR BEFORE ROUGH-IN.
 - PROVIDE QUADRIPLEX RECEPTACLE CENTERED 12" ABOVE DOOR ON SALES SIDE.
 - PROVIDE PHONE JACKS BEHIND VESTIBULE DOOR ABOVE THE SHELVES. GENERAL CONTRACTOR SHALL CONFIRM EXACT LOCATION AND MOUNTING HEIGHT WITH SHOE PALACE BEFORE ROUGH-IN.
 - PROVIDE A 3'-0" x 4'-0" x 3/4" UL-LABELED FIRE-RETARDANT PLYWOOD BACKBOARD MOUNTED ABOVE DOOR FOR TELECOMMUNICATIONS EQUIPMENT. PROVIDE GROUND BAR MOUNTED ON BACKBOARD WITH EQUIPMENT GROUNDING CONDUCTOR CONNECTED TO POWER SYSTEM'S GROUNDING ELECTRODE SYSTEM. SEE DETAIL 4/E3.0 FOR ADDITIONAL INFORMATION REGARDING GROUND BAR.
 - COORDINATE EXACT LOCATION WITH SHOE PALACE CONSTRUCTION MANAGER IN FIELD.
 - QUADRIPLEX RECEPTACLE MOUNTED TIGHT TO DECK ABOVE. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
 - EXTEND EMT CONDUIT WITH PULL STRING TO THIS LOCATION, FROM EXISTING TELECOMMUNICATIONS SERVICE STUB-IN TO TENANT SPACE.
 - PROVIDE QUADRIPLEX RECEPTACLE AT 12'-6" FOR JUMP MAN SIGN.
 - PROVIDE FINAL CONNECTION TO WATER HEATER. THE REQUIRED DISCONNECTING MEANS SHALL CONSIST OF PADLOCK ACCESSORY ON CIRCUIT BREAKER SERVING WATER HEATER BRANCH CIRCUIT TO LOCK CIRCUIT BREAKER IN OPEN (OFF) POSITION. COORDINATE ALL REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
 - PROVIDE A 5'-0" x 5'-0" x 3/4" UL-LABELED FIRE-RETARDANT PLYWOOD BACKBOARD MOUNTED WITH BOTTOM AT 9'-0" A.F.F. FOR TELECOMMUNICATIONS EQUIPMENT. PROVIDE GROUND BAR MOUNTED ON BACKBOARD WITH EQUIPMENT GROUNDING CONDUCTOR CONNECTED TO POWER SYSTEM'S GROUNDING ELECTRODE SYSTEM. SEE DETAIL 4/E3.0 FOR ADDITIONAL INFORMATION REGARDING GROUND BAR.

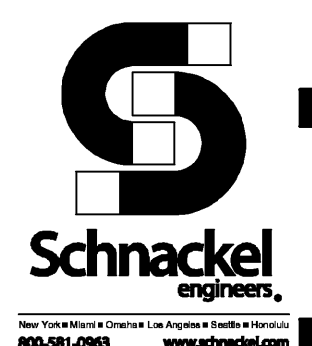
POWER AND SYSTEMS PLAN
SCALE: 3/16" = 1'-0"



LEGEND

---	EXISTING
---	NEW WORK
⊕	NEW TO EXISTING CONNECTION

ALL EXPOSED CONDUIT TO BE ROUTED TIGHT TO DECK.



E2.0

PROJ20240836

SHOE PALACE
SOUTH HILL MALL
SPACE 410 & 420
3500 S MERIDIAN
PUYALLUP, WA 98373

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

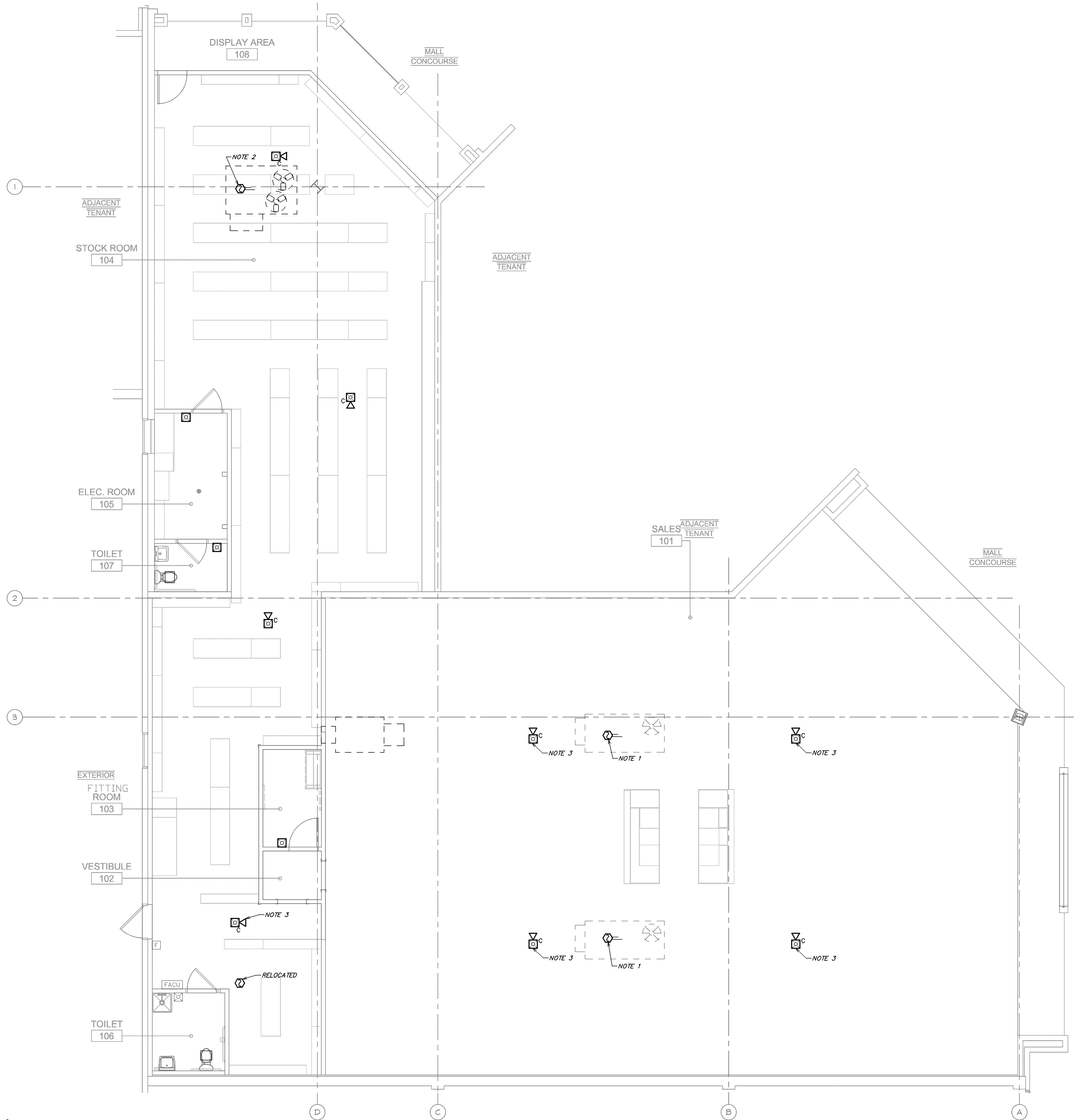
REVISIONS:

PROJECT NO.	24068
DATE	05/09/2024
DRAWN BY:	SEI
SCALE:	AS NOTED
FILE:	
GROSS AREA	6,719 S.F.



Carlie Coatsworth architects

1800 MacArthur Boulevard
Suite 300
Irvine, California 92614
949.833.1930
www.carlie-coatsworth.com



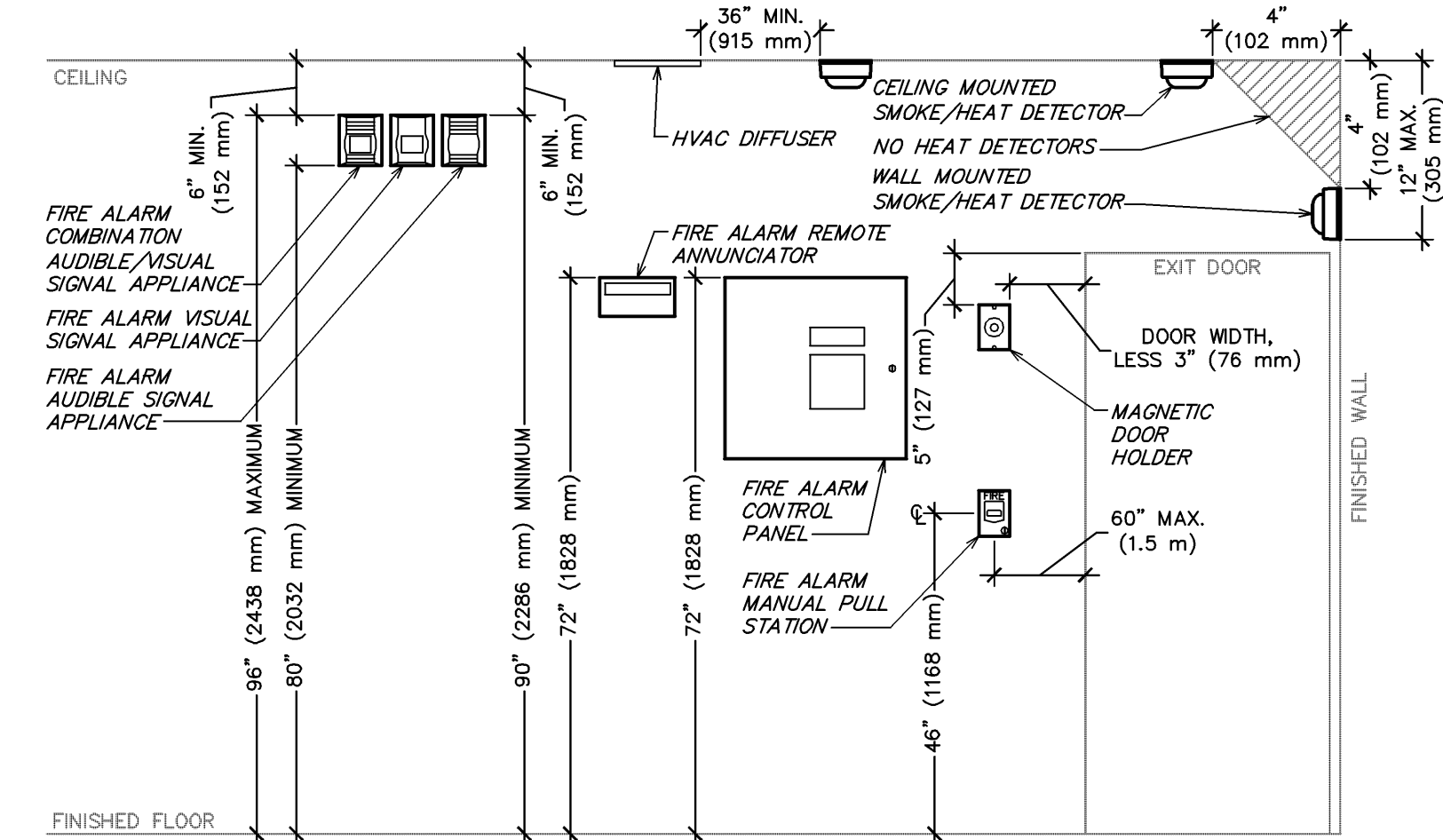
FIRE ALARM PLAN

SCALE: 3/16" = 1'-0"

BE JOB# 240291



AS NOTED FIRE ALARM IS A SEPARATE PERMIT



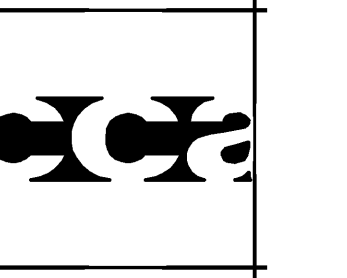
2 TYPICAL DEVICE ELEVATION DETAIL
NOT TO SCALE

LEGEND

	EXISTING
	NEW WORK
	NEW TO EXISTING CONNECTION

ALL EXPOSED CONDUIT TO BE ROUTED TIGHT TO DECK.

- GENERAL FIRE ALARM NOTES**
- THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS (INSTALLATION DOCUMENTS) COMPLYING WITH NFPA 72 SECTION 7.4 BASED ON THE MANUFACTURER-SPECIFIC EQUIPMENT AND COMPONENTS INTENDED TO BE INSTALLED.
 - INFORMATION ON THE DRAWINGS SERVES AS DESIGN (LAYOUT) DOCUMENTATION PER NFPA 72 SECTION 7.3 PRIMARILY FOR THE PURPOSE OF BIDDING, ESTABLISHING PERFORMANCE CRITERIA, CONVEYING INTENT, AND PRELIMINARY PERMIT APPROVAL. AS SUCH, THE DRAWINGS MAY NOT SHOW EVERY COMPONENT REQUIRED FOR A COMPLETE INSTALLATION. THE CONTRACTOR SHALL INCLUDE ALL COMPONENTS REQUIRED FOR A COMPLETE, CODE-COMPLIANT DESIGN AND INSTALLATION IN THE SHOP DRAWINGS (INSTALLATION DOCUMENTS).
 - THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS (INSTALLATION DOCUMENTS) TO THE AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL.
 - INCLUDE ALL COSTS ASSOCIATED WITH THE DEVELOPMENT OF THE SHOP DRAWINGS (INSTALLATION DOCUMENTS) AND ALL PERMIT FEES IN THE BID.
 - SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- KEYED NOTES**
- VERIFY EXISTING CONDITION, IF NOT PRESENT, FURNISH DUCT SMOKE DETECTOR AND RELAY FOR HVAC UNIT SUPPLY FAN SHUTDOWN, FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. PROVIDE A REMOTE KEYED TEST STATION WITH VISUAL STATUS ANNUNCIATOR, COORDINATE LOCATION WITH AUTHORITY HAVING JURISDICTION AND OWNER PRIOR TO ROUGH-IN. PROVIDE ALL FINAL WIRING FOR A COMPLETE AND FUNCTIONAL SYSTEM.
 - FURNISH DUCT SMOKE DETECTOR AND RELAY FOR HVAC UNIT SUPPLY FAN SHUTDOWN, FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. PROVIDE A REMOTE KEYED TEST STATION WITH VISUAL STATUS ANNUNCIATOR AND COORDINATE INSTALLATION LOCATION WITH AUTHORITY HAVING JURISDICTION AND OWNER PRIOR TO ROUGH-IN. PROVIDE ALL FINAL WIRING FOR A COMPLETE AND FUNCTIONAL SYSTEM.
 - RELOCATED EXISTING FIRE ALARM NOTIFICATION APPLIANCE TO OPEN STRUCTURE ABOVE, IN SAME AREA AS PREVIOUSLY LOCATED AT CEILING TO BE REMOVED.



Carlie Coatsworth architects

18000 MacArthur Boulevard
Suite 300
Irvine, California 92612
949.833.1030
www.carlie-coatsworth.com



Date: 05/13/2024
COA # 2029

PROJECT NO.	24068
DATE	05/09/2024
DRAWN BY	SEI
SCALE	AS NOTED
FILE	
GROSS AREA	6,719 S.F.

REVISIONS:

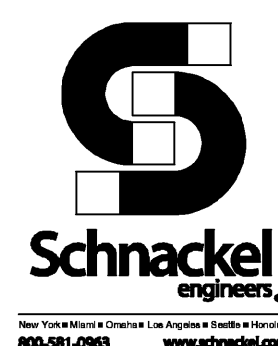
City of Puyallup Development & Permitting Services ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

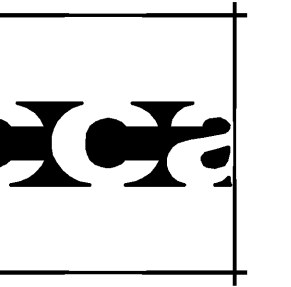
SHEET TITLE:
FIRE ALARM PLAN

SHOE PALACE
SOUTH HILL MALL
SPACE 410 & 420
3500 S MERIDIAN
PUYALLUP, WA 98373

PRCTI20240836



FA1.0



Carlie architects

18000 MacArthur Boulevard Suite 300 Irvine, California 92614 949.833.1930 www.carliearch.com



Date: 05/13/2024 CA # 2629

PROJECT NO. 24068

DATE 05/09/2024

DRAWN BY: SEI

SCALE: AS NOTED

FILE:

GROSS AREA 6,719 S.F.

REVISIONS:

Table with City of Puyallup logo and ISSUED PERMIT stamp for Building, Planning, Engineering, Public Works, Fire, and Traffic.

SHEET TITLE: FIRE ALARM SPECIFICATIONS

SHOEPALACE

PROJ20240836

SOUTH HILL MALL SPACE 410 & 420 3500 S MERIDIAN PUYALLUP, WA 98573

PROJ20240836

SOUTH HILL MALL SPACE 410 & 420 3500 S MERIDIAN PUYALLUP, WA 98573

FA2.1

Schnackel engineers

800-381-0908 www.schnackel.com

3. Signaling Line Circuits: Provide surge protection at each point where circuit enters or enters a building, rated to protect applicable equipment. Document Holder: Steel 14 inch (350 mm) wide by 14 inch (350 mm) high by 3 inch (75 mm) deep system document box with red baked enamel finish.

2.05 SEQUENCE OF OPERATION
A. Trouble Mode: System or circuit trouble places system in trouble mode, which causes the following system operations:
1. Visual and audible trouble signal indicated at fire alarm control unit.
2. Visual and audible trouble signal indicated at remote annunciator panel.
3. Trouble signal transmitted to remote supervising station.
4. Manual acknowledge function at fire alarm control panel silences audible trouble alarm; visual alarm is displayed until initiating failure or circuit trouble is cleared.

3.02 INSPECTION AND TESTING FOR COMPLETION
A. Complete NFPA 72 "RECORD OF COMPLETION" form.
B. Notify the Authority Having Jurisdiction and comply with their requirements for scheduling inspections and tests and for observation by their personnel.
C. Perform inspection and testing in accordance with NFPA 72 and requirements of the Authority Having Jurisdiction.

3.05 MAINTENANCE
A. Provide to Owner, at no extra cost, a written maintenance contract for 2 years, to include the work described below:
B. Perform routine inspection, testing, and preventive maintenance required by NFPA 72, including:
1. Maintenance of fire safety interface and supervisory devices connected to fire alarm system.
2. Repairs as required, unless due to improper use, accidents, or negligence beyond the control of the maintenance contractor.

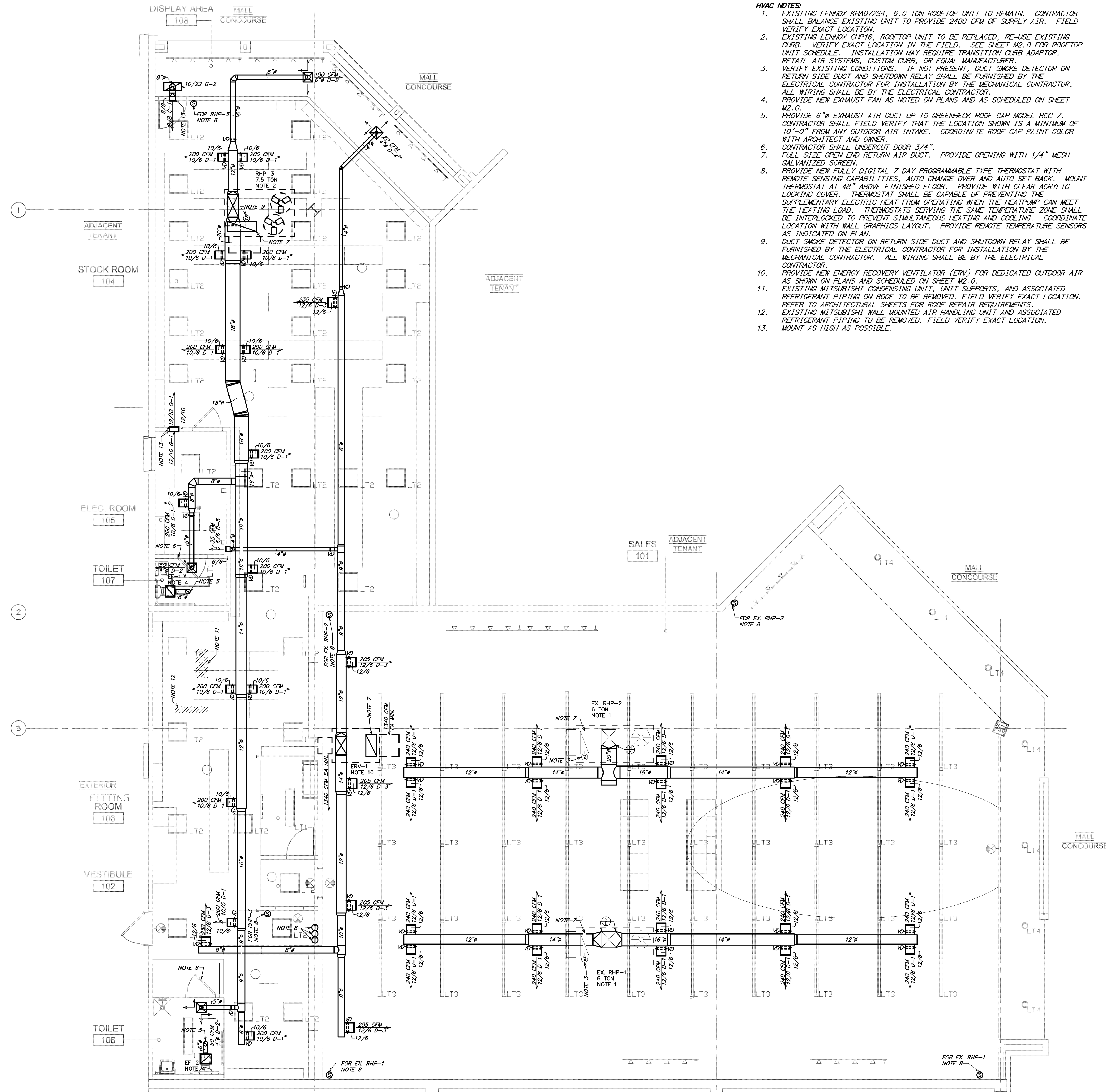
END OF SECTION

11. Primary Power: 120 VAC, 60 Hertz.
12. Secondary Power: Storage battery and battery charger capable of operating entire system for period of time specified by NFPA 72 plus 25 percent spare capacity.
13. Audio Amplifier Modules: As required for speakers served.
D. Remote Annunciators:
1. Remote annunciator including audible and visual indication of fire alarm by zone, and audible and visual indication of system trouble.
2. Compatible with the control unit; coordinate finish color with the Architect.
3. Provide at a location approved by the Authority Having Jurisdiction when indicated on the drawings or when control unit is installed at a location other than the First Responder's primary point of entry.

FIRE ALARM SYMBOL LEGEND (SOME MAY NOT BE USED) table with columns for SYMBOL and DESCRIPTION.

FIRE ALARM ABBREVIATIONS AND MODIFIERS (SOME MAY NOT BE USED) table with columns for GENERAL, HEAT DETECTORS, SMOKE DETECTORS, FLAME DETECTORS, and NOTIFICATION APPLIANCES.

Surge Protection: In accordance with IEEE C62.41.2 category B combination waveform and NFPA 70.
1. Equipment Connected to Alternating Current Circuits: Maximum let through voltage of 350 VAC, line-to-neutral, and 350 VAC, line-to-line; do not use fuses.
2. Initiating Device Circuits, Notification Appliance Circuits, and Communications Circuits: Provide surge protection at each point where circuit enters or enters a building, rated to protect applicable equipment; for 24 VDC maximum dc clamping voltage of 36 VDC, line-to-ground, and 72 VDC, line-to-line.



HVAC NOTES:

- EXISTING LENNOX KHA072S4, 6.0 TON ROOFTOP UNIT TO REMAIN. CONTRACTOR SHALL BALANCE EXISTING UNIT TO PROVIDE 2400 CFM OF SUPPLY AIR. FIELD VERIFY EXACT LOCATION.
- EXISTING LENNOX CHP16, ROOFTOP UNIT TO BE REPLACED. RE-USE EXISTING CURB. VERIFY EXACT LOCATION IN THE FIELD. SEE SHEET M2.0 FOR ROOFTOP UNIT SCHEDULE. INSTALLATION MAY REQUIRE TRANSITION CURB ADAPTOR, RETAIL AIR SYSTEMS, CUSTOM CURB, OR EQUAL MANUFACTURER. VERIFY EXISTING CONDITIONS. IF NOT PRESENT, DUCT SMOKE DETECTOR ON RETURN SIDE DUCT AND SHUTDOWN RELAY SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. ALL WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR.
- PROVIDE NEW EXHAUST AIR DUCT UP TO GREENHECK ROOF CAP MODEL RCC-7. CONTRACTOR SHALL FIELD VERIFY THAT THE LOCATION SHOWN IS A MINIMUM OF 10'-0" FROM ANY OUTDOOR AIR INTAKE. COORDINATE ROOF CAP PAINT COLOR WITH ARCHITECT AND OWNER.
- CONTRACTOR SHALL UNDERCUT DOOR 3/4".
- FULL SIZE OPEN END RETURN AIR DUCT. PROVIDE OPENING WITH 1/4" MESH GALVANIZED SCREEN.
- PROVIDE NEW FULLY DIGITAL 7 DAY PROGRAMMABLE TYPE THERMOSTAT WITH REMOTE SENSING CAPABILITIES, AUTO CHANGE OVER AND AUTO SET BACK. MOUNT THERMOSTAT AT 48" ABOVE FINISHED FLOOR. PROVIDE WITH CLEAR ACRYLIC LOCKING COVER. THERMOSTAT SHALL BE CAPABLE OF PREVENTING THE SUPPLEMENTARY ELECTRIC HEAT FROM OPERATING WHEN THE HEATPUMP CAN MEET THE HEATING LOAD. THERMOSTATS SERVING THE SAME TEMPERATURE ZONE SHALL BE INTERLOCKED TO PREVENT SIMULTANEOUS HEATING AND COOLING. COORDINATE LOCATION WITH WALL GRAPHICS LAYOUT. PROVIDE REMOTE TEMPERATURE SENSORS AS INDICATED ON PLAN.
- DUCT SMOKE DETECTOR ON RETURN SIDE DUCT AND SHUTDOWN RELAY SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR FOR INSTALLATION BY THE MECHANICAL CONTRACTOR. ALL WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR.
- PROVIDE NEW ENERGY RECOVERY VENTILATOR (ERV) FOR DEDICATED OUTDOOR AIR AS SHOWN ON PLANS AND SCHEDULED ON SHEET M2.0.
- EXISTING MITSUBISHI CONDENSING UNIT, UNIT SUPPORTS, AND ASSOCIATED REFRIGERANT PIPING ON ROOF TO BE REMOVED. FIELD VERIFY EXACT LOCATION. REFER TO ARCHITECTURAL SHEETS FOR ROOF REPAIR REQUIREMENTS.
- EXISTING MITSUBISHI WALL MOUNTED AIR HANDLING UNIT AND ASSOCIATED REFRIGERANT PIPING TO BE REMOVED. FIELD VERIFY EXACT LOCATION. MOUNT AS HIGH AS POSSIBLE.

GENERAL NOTES:

- EXISTING CONDITIONS ARE BASED ON RECORD DRAWINGS PROVIDED BY THE OWNER AND/OR LIMITED FIELD VERIFICATION BY OTHERS. CONTRACTOR SHALL ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE PROJECT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING THE BID. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY EXTRAS DUE TO THE CONTRACTOR'S FAILURE TO VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER FOR RESOLUTION.
- ALL CONTRACTORS SHALL REVIEW A COMPLETE SET OF CONSTRUCTION DOCUMENTS. CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH DEMOLITION WORK PRIOR TO BIDDING AND START OF WORK. CONTRACTOR IS RESPONSIBLE TO DEMOLISH ALL EXISTING AS REQUIRED FOR INSTALLATION/CONSTRUCTION OF NEW WORK.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE GOVERNMENT AND LOCAL CODES.
- MECHANICAL CONTRACTOR SHALL FIELD COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL POWER REQUIREMENTS.
- ALL CONTRACTORS SHALL REVIEW A COMPLETE SET OF CONSTRUCTION DOCUMENTS AND COOPERATE WITH THE OTHER TRADES SO THAT THE INSTALLATION OF ALL EQUIPMENT MAY BE PROPERLY COORDINATED.
- ALL EQUIPMENT FURNISHED SHALL FIT THE SPACE AVAILABLE WITH CONNECTIONS IN THE REQUIRED LOCATIONS AND WITH ADEQUATE SPACE FOR OPERATING AND SERVICING. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATE THE INTENT OF THE INSTALLATION WHILE THE SPECIFICATIONS AND EQUIPMENT LIST DENOTE THE TYPE AND QUALITY OF MATERIAL AND WORKMANSHIP TO BE USED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. WHERE A CONFLICT EXISTS BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE HIGHER AND/OR MORE COSTLY STANDARD WILL APPLY. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER WHOSE DECISION SHALL BE FINAL. NO ALLOWANCE WILL BE MADE SUBSEQUENTLY IN THIS REGARD ON BEHALF OF THE CONTRACTOR AFTER AWARD OF THE CONTRACT.
- COORDINATE DUCT ROUTING AND HEIGHTS WITH GENERAL CONTRACTOR. VERIFY ALL CLEARANCES BEFORE STARTING WORK.
- THE CONTRACTOR SHALL INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT AS REQUIRED TO CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE CEILING HEIGHTS AND HEADROOM AND MAKE ALL EQUIPMENT REQUIRING MAINTENANCE OR REPAIR ACCESSIBLE.
- ALL DUCT CONNECTIONS TO HVAC EQUIPMENT MUST BE MADE WITH FLEXIBLE CONNECTORS.
- DO NOT ATTACH ANYTHING TO DECK ABOVE. ATTACH TO STRUCTURE (i.e., BEAMS, JOISTS) ONLY. DUCT HANGERS SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODE. ALL CONNECTIONS TO JOISTS SHALL BE MADE AT THE TOP CORNER.
- ALL DUCT DIMENSIONS INDICATED ARE CLEAR INSIDE DIMENSIONS. ALL SUPPLY AND UNTEMPERED OUTDOOR AIR DUCTWORK SHALL BE LINED WITH 1" ACOUSTICAL DUCT LINER OR WRAPPED WITH 1-1/2" THICK FIRE RETARDANT FIBERGLASS WITH A REINFORCED ALUMINUM FOIL JACKET AND SHALL BE APPROVED FOR USE BY SMOGNA AND NAIMA. RETURN AIR TRANSFER DUCTS AND RETURN DUCTWORK WITHIN 10 FEET OF THE UNIT RAN SHALL BE LINED WITH 1" ACOUSTICAL DUCT LINER. ALL SUPPLY AND UNTEMPERED OUTDOOR AIR DUCTWORK VISIBLE TO THE PUBLIC SHALL BE INTERNALLY LINED AND PAINTED TO MATCH THE SURROUNDING AREA. DUCT WRAP INSULATION IS NOT PERMITTED IN THESE AREAS.
- EXPOSED SPIRAL DUCT TO BE GALVANIZED FINISH, FREE FROM SCRATCHES, DENTS OR BLEMISHES AND PAINTED TO MATCH THE SURROUNDING AREA. DUCT SHALL BE INTERNALLY LINED AND SEALED WITH DUCT SEALER COMPLETELY CONCEALED WITHIN THE DUCT JOINT. NO EXPOSED SEALER OR TAPE WILL BE ACCEPTED.
- ALL EXPOSED DUCTWORK SHALL BE INSTALLED TIGHT TO THE BOTTOM OF THE STRUCTURE, THRU JOIST SPACE.
- AT THE START OF CONSTRUCTION, THE MECHANICAL CONTRACTOR SHALL INSPECT AND RUN TEST ALL EXISTING HVAC UNITS DESIGNATED FOR REUSE. CONTRACTOR SHALL INFORM THE ENGINEER OF ANY NECESSARY REPAIRS FOR APPROVAL IN A TIMELY MANNER, AS TO NOT DELAY THE PROJECT OPENING DATE.
- TENANT'S CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF ALL UTILITY RUNS AND/OR OTHER IMPROVEMENTS LOCATED ON THE PREMISES PRIOR TO BIDDING. TENANT'S CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL COSTS RELATING TO THE RELOCATION OF, DAMAGE TO, REPAIR OF ANY EXISTING UTILITY RUNS AND/OR IMPROVEMENTS WHICH ARE DAMAGED AS A RESULT OF TENANT'S WORK IN OR AROUND THE PREMISES.
- ALL ROOFING WORK SHALL BE PERFORMED BY LANDLORD'S APPROVED ROOFING CONTRACTOR AT TENANT'S EXPENSE, IF REQUIRED IN LEASE OR TENANT CRITERIA MANUAL.
- ROOF MOUNTED EQUIPMENT SHALL BE LABELED WITH THE TENANT NAME AND SPACE NUMBER WITH 3" HIGH WEATHER PROOF LETTERS.
- MECHANICAL CONTRACTOR SHALL PROVIDE TENANT WITH A WRITTEN ONE (1) YEAR MANUFACTURER'S WARRANTY ON ALL HVAC EQUIPMENT PROVIDED AND / OR INSTALLED. THE WARRANTY SHALL INCLUDE ALL LABOR, MATERIALS AND THREE (3) ROUTINE SERVICES INCLUDING FILTER CHANGES DURING A ONE (1) YEAR PERIOD.
- AT THE COMPLETION OF CONSTRUCTION AN NEBB, AABC OR TABB CERTIFIED AIR BALANCE REPORT SHALL BE SUBMITTED TO THE ENGINEER AND LANDLORD. THE BALANCING MUST BE COMPLETED BY AN INDEPENDENT, THIRD PARTY CONTRACTOR WITH NO TIES TO THE INSTALLING CONTRACTORS.
- THE CONTRACTOR SHALL OBTAIN A COPY OF THE LANDLORD'S TENANT CRITERIA MANUAL. TENANT CRITERIA MANUAL IS AN INTEGRAL PART OF THIS CONTRACT. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH LANDLORD REQUIREMENTS AT NO ADDITIONAL COST TO THE TENANT.
- PARTS OF THE BASE BUILDING SYSTEMS THAT FALL INTO LEASE LINE SHALL REMAIN UNDISTURBED UNLESS NOTED OTHERWISE.
- PROVIDE ALL NECESSARY WIRING, RELAYS, DETECTORS, COMPONENTS, ETC., FOR FIRE ALARM OR CONTROL SYSTEM INTERLOCK IF APPLICABLE. VERIFY WITH MALL PERSONNEL BEFORE BID.

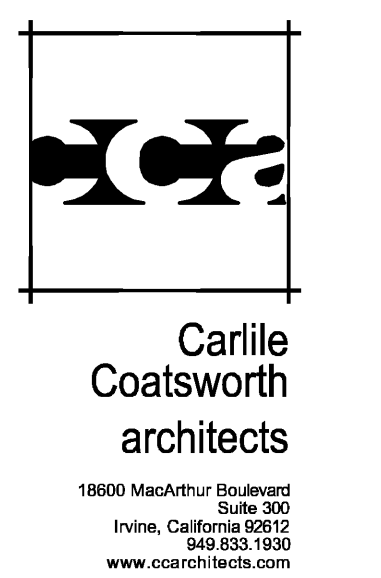
DEMOLISH ALL EXISTING DUCTWORK IN THE DEMISED SPACE. NO EXISTING DUCTWORK IS DESIGNATED FOR REUSE.

AT THE START OF CONSTRUCTION, THE MECHANICAL CONTRACTOR SHALL INSPECT AND RUN TEST ALL EXISTING HVAC UNITS DESIGNATED FOR REUSE. CONTRACTOR SHALL INFORM THE ENGINEER OF ANY NECESSARY REPAIRS FOR APPROVAL IN A TIMELY MANNER, AS TO NOT DELAY THE PROJECT OPENING DATE.

AT COMPLETION OF CONSTRUCTION, HVAC SYSTEMS OUTLINED IN WASHINGTON ENERGY CODE SECTION C403 SHALL BE COMMISSIONED IN ACCORDANCE WITH REQUIREMENTS OUTLINED IN SECTION C408. FINAL COMMISSIONING REPORT SHALL BE COMPLETED AND CERTIFIED BY A CERTIFIED COMMISSIONING PROFESSIONAL. THE COMMISSIONING AGENT SHALL SUBMIT A COPY OF THE REPORT TO THE CODE OFFICIAL.

LEGEND

—	EXISTING
---	NEW WORK
⊕	NEW TO EXISTING CONNECTION



PROJECT NO.	24068
DATE	05/09/2024
DRAWN BY	SEI
SCALE	AS NOTED
FILE	
GROSS AREA	6,719 S.F.

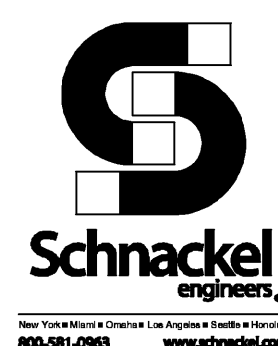
REVISIONS:

City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

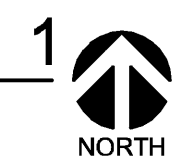
SHEET TITLE:
HVAC PLAN

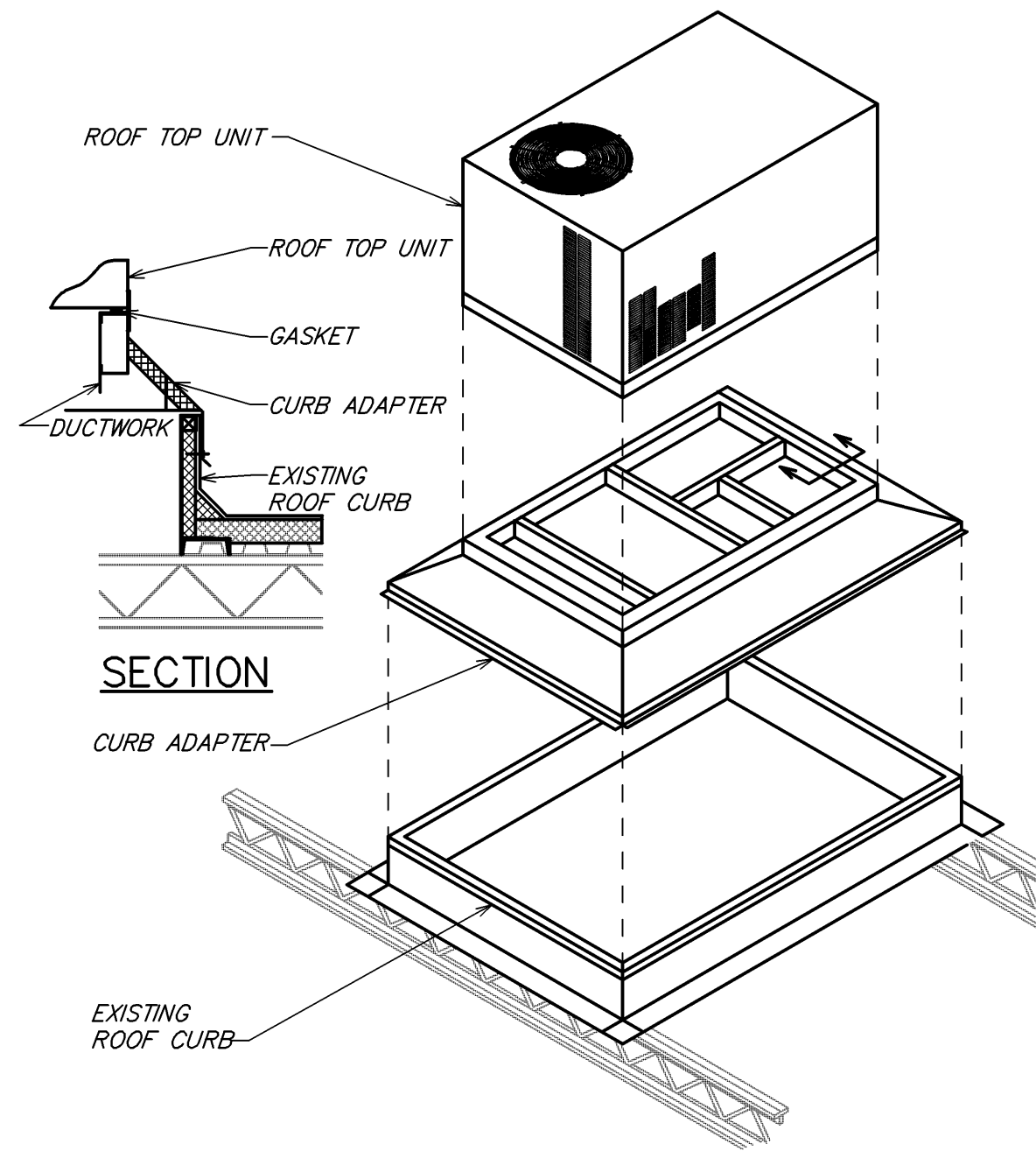
SHOE PALACE
SOUTH HILL MALL
SPACE 410 & 420
3500 S MERIDIAN
PUYALLUP, WA 98373

PROJ20240836



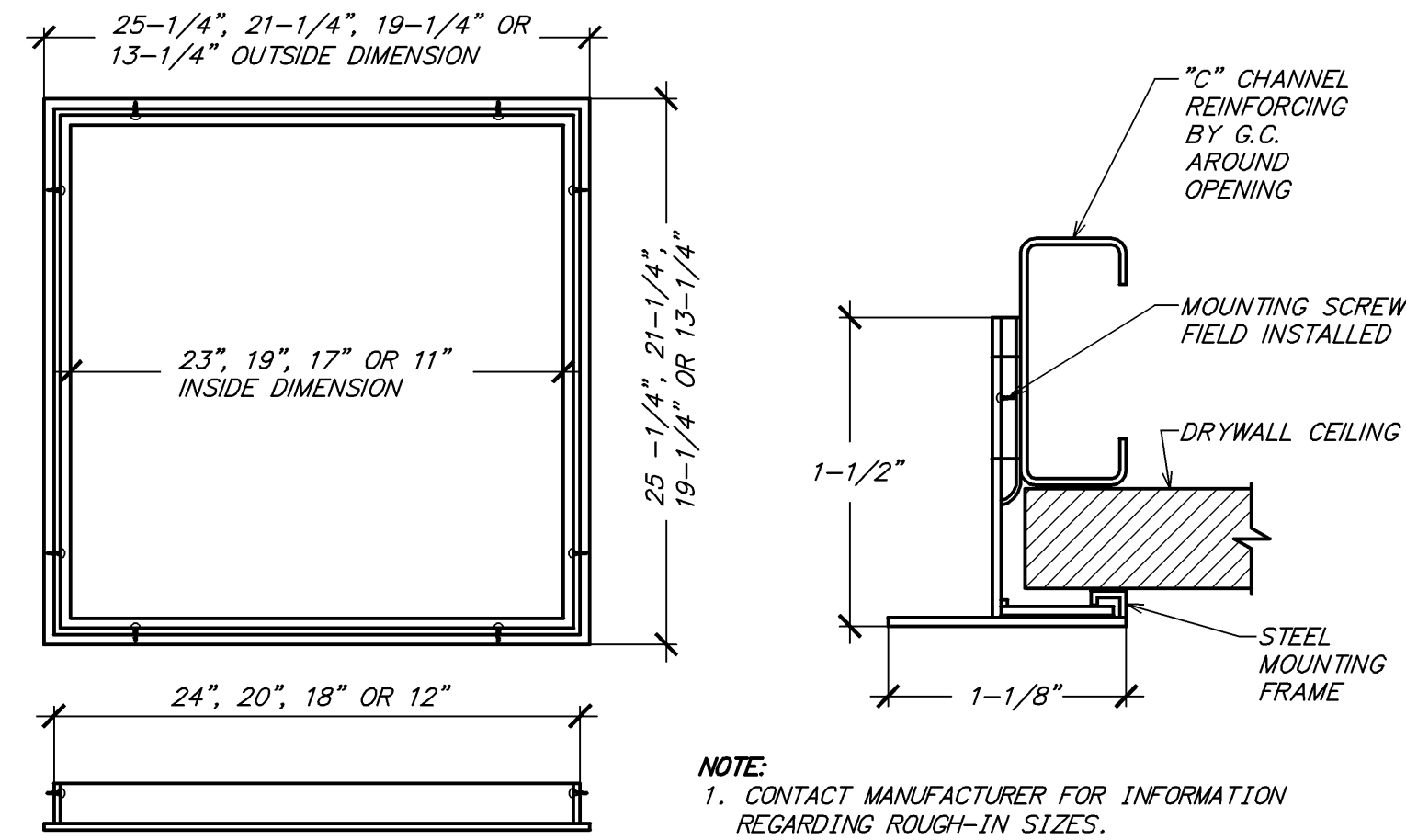
M1.0



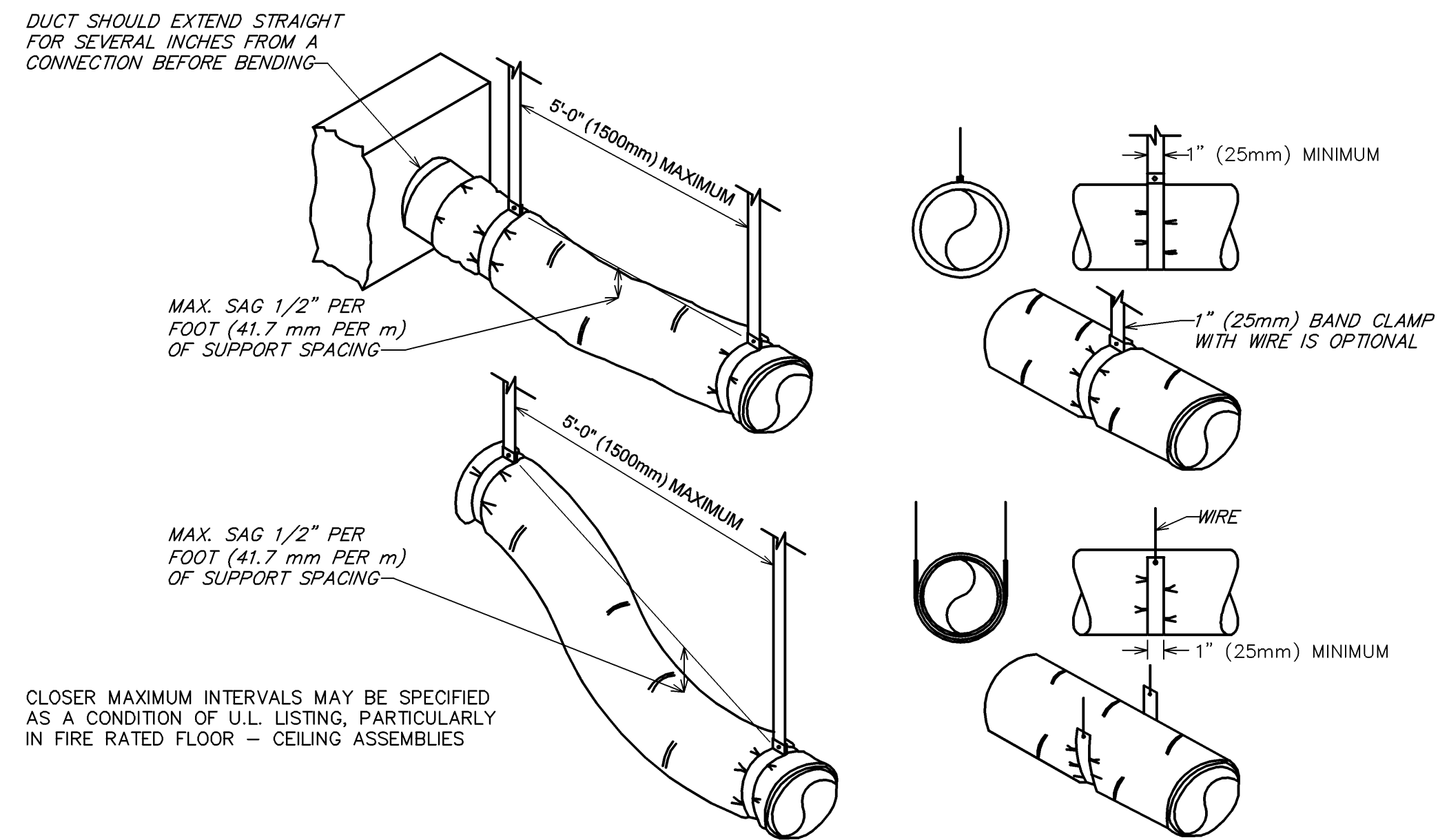


8 CURB ADAPTER
NOT TO SCALE

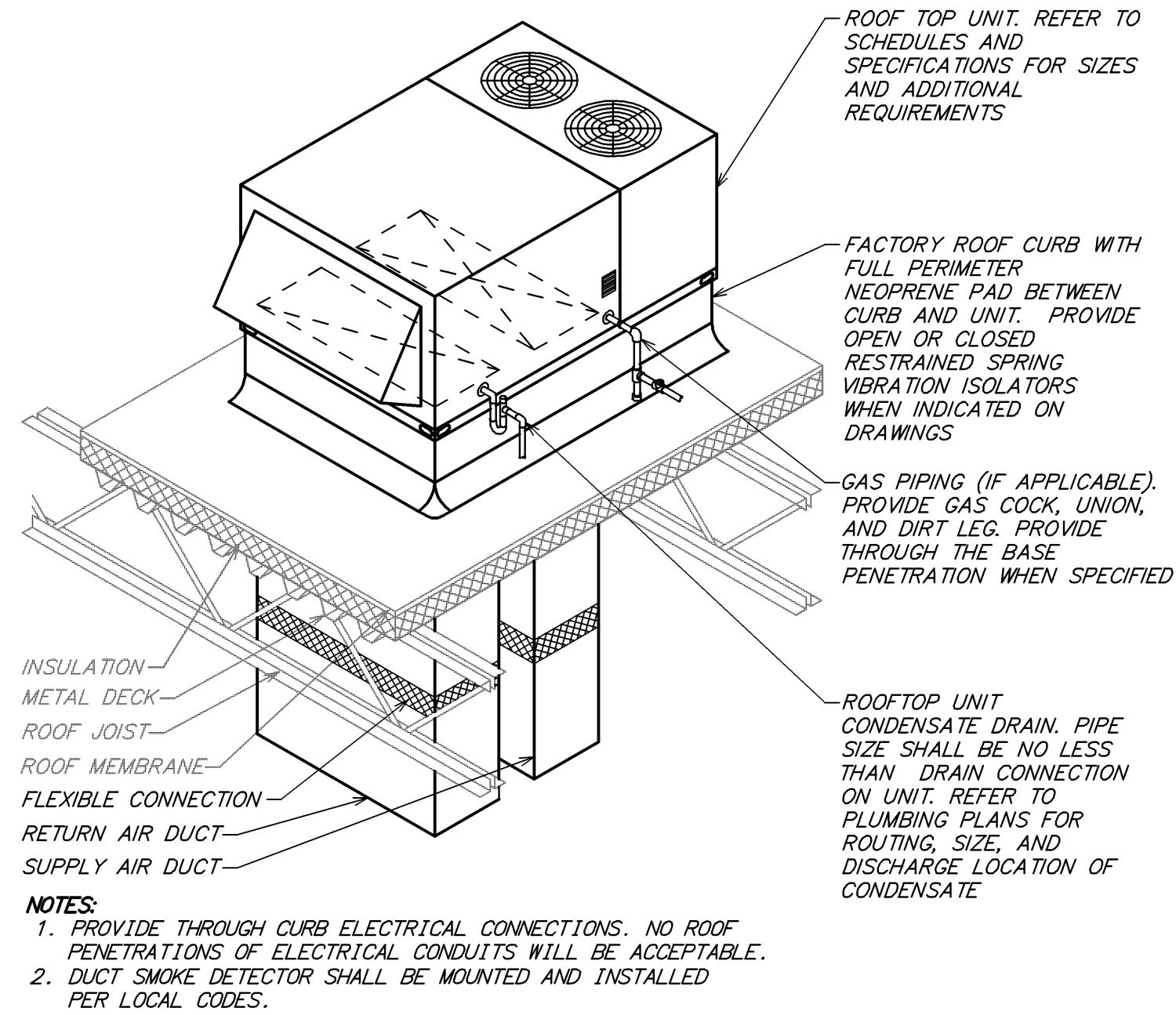
STRUCTURAL CURBS INSTALLED TO SUPPORT ROOFTOP HVAC EQUIPMENT ARE ALLOWED TO INTERRUPT THE ABOVE ROOF INSULATION. THE AREA UNDER THE HVAC EQUIPMENT INSIDE OF THE EQUIPMENT CURB SHALL BE INSULATED TO A MINIMUM OF R-13 IN ALL LOCATIONS WHERE THERE ARE NOT ROOF OPENINGS FOR DUCTWORK. THE ANNULAR SPACE BETWEEN THE ROOF OPENING AND THE DUCTWORK SHALL BE SEALED TO MAINTAIN THE BUILDING AIR BARRIER.



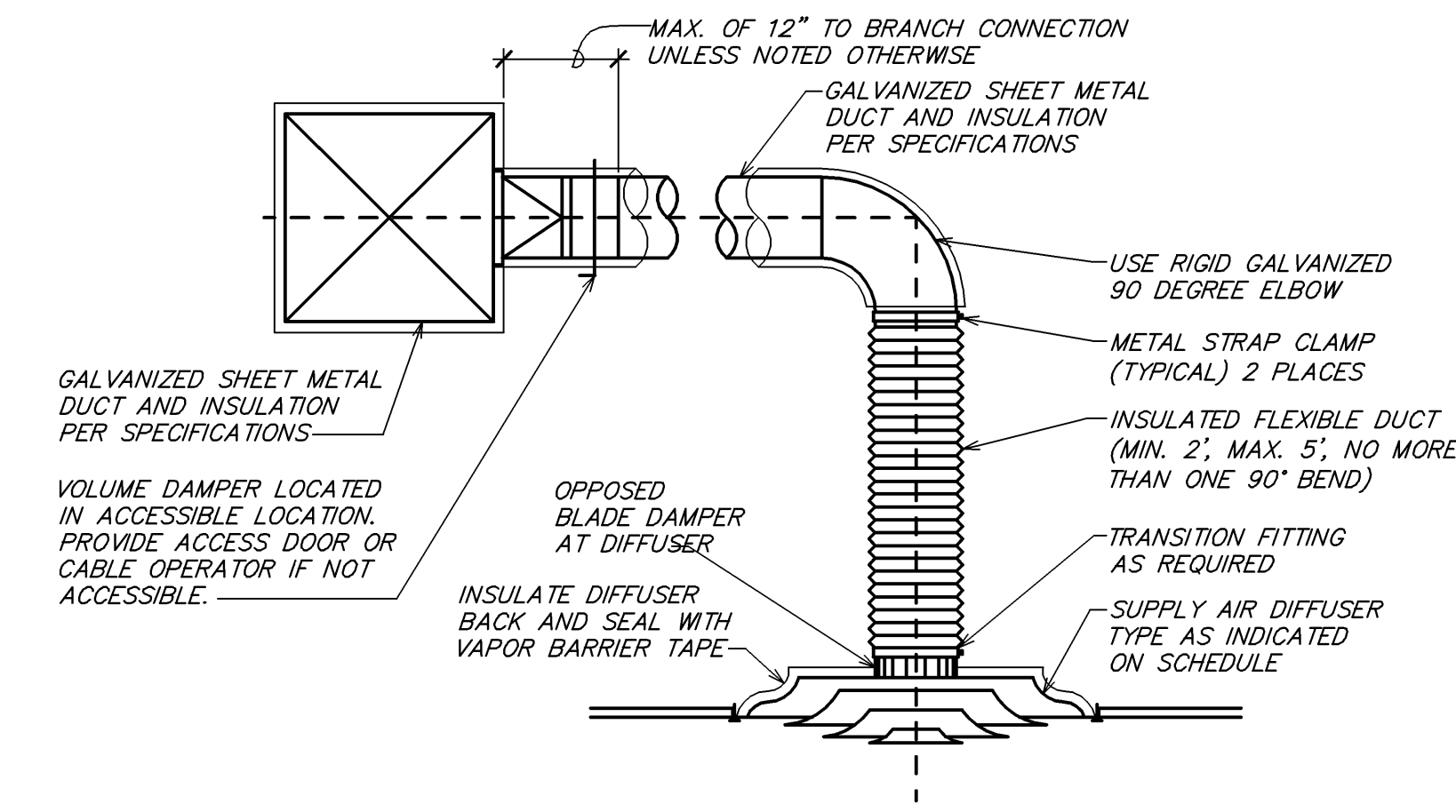
5 TYPICAL DRYWALL MOUNTING FRAME DETAIL
NOT TO SCALE



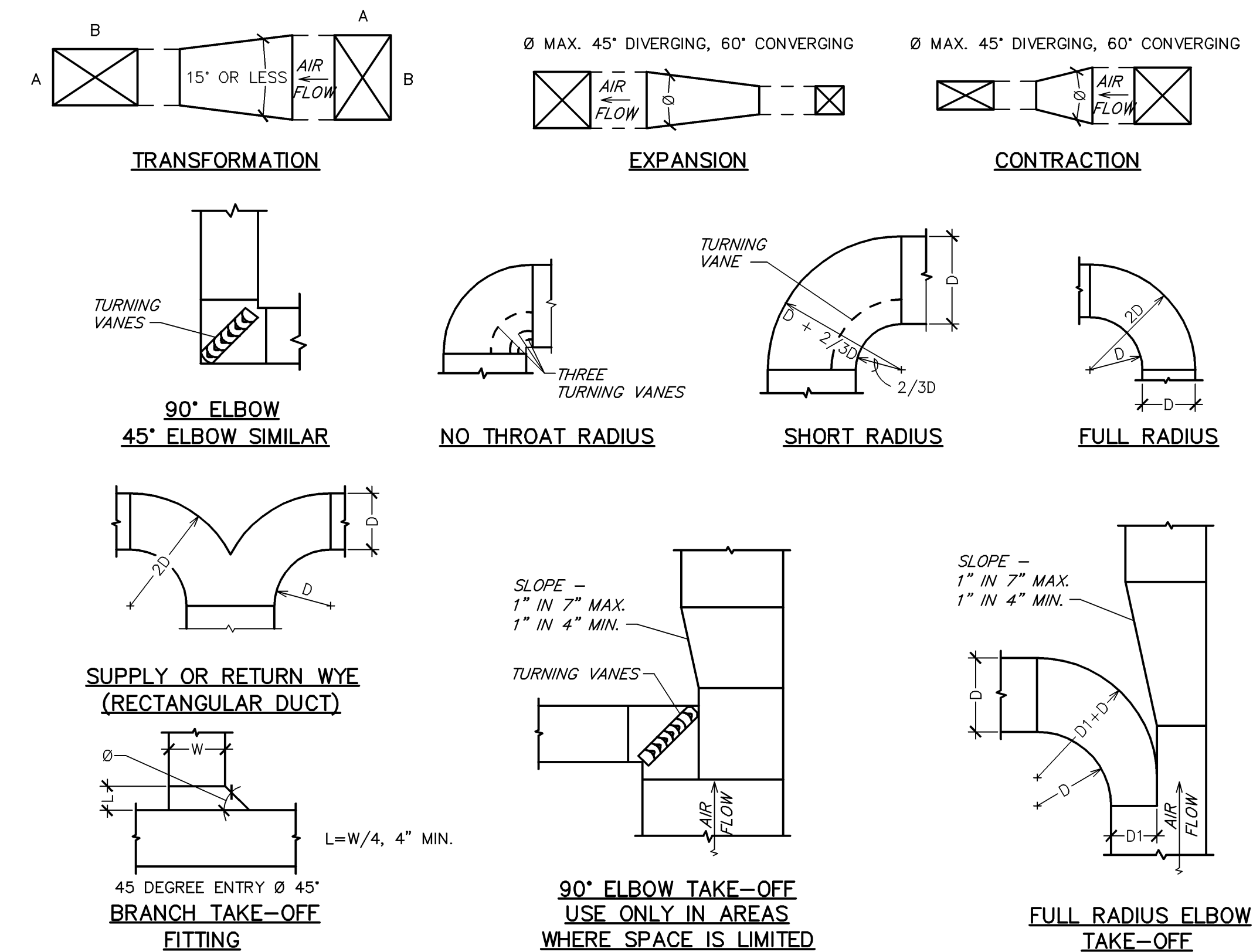
2 FLEXIBLE DUCT SUPPORTS
NOT TO SCALE



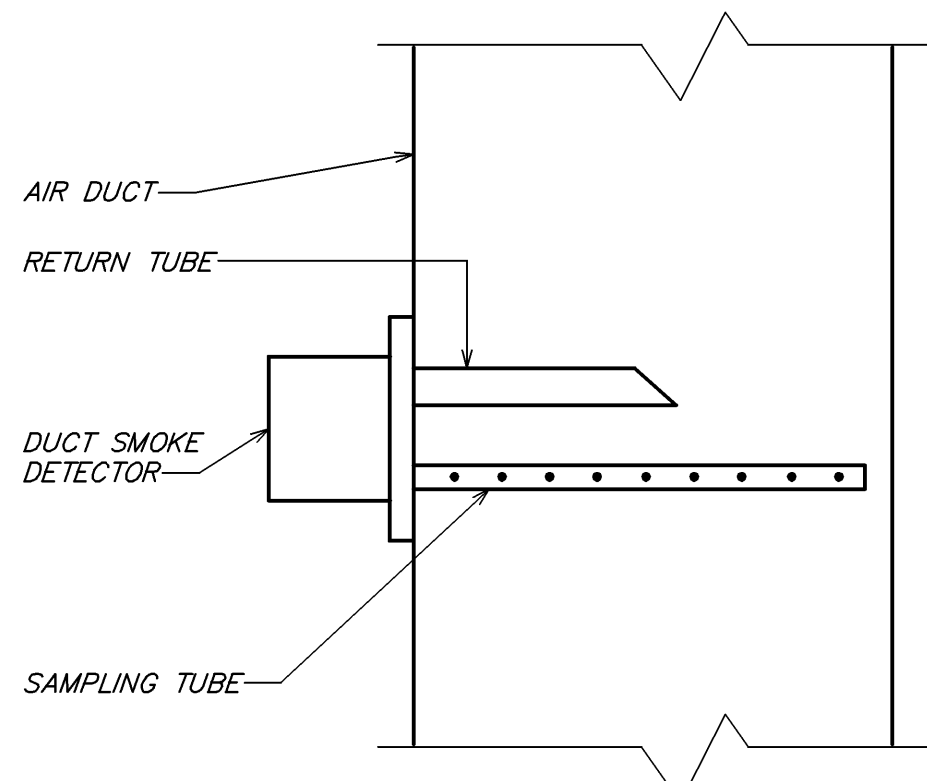
7 TYPICAL ROOF TOP UNIT DETAIL
NOT TO SCALE



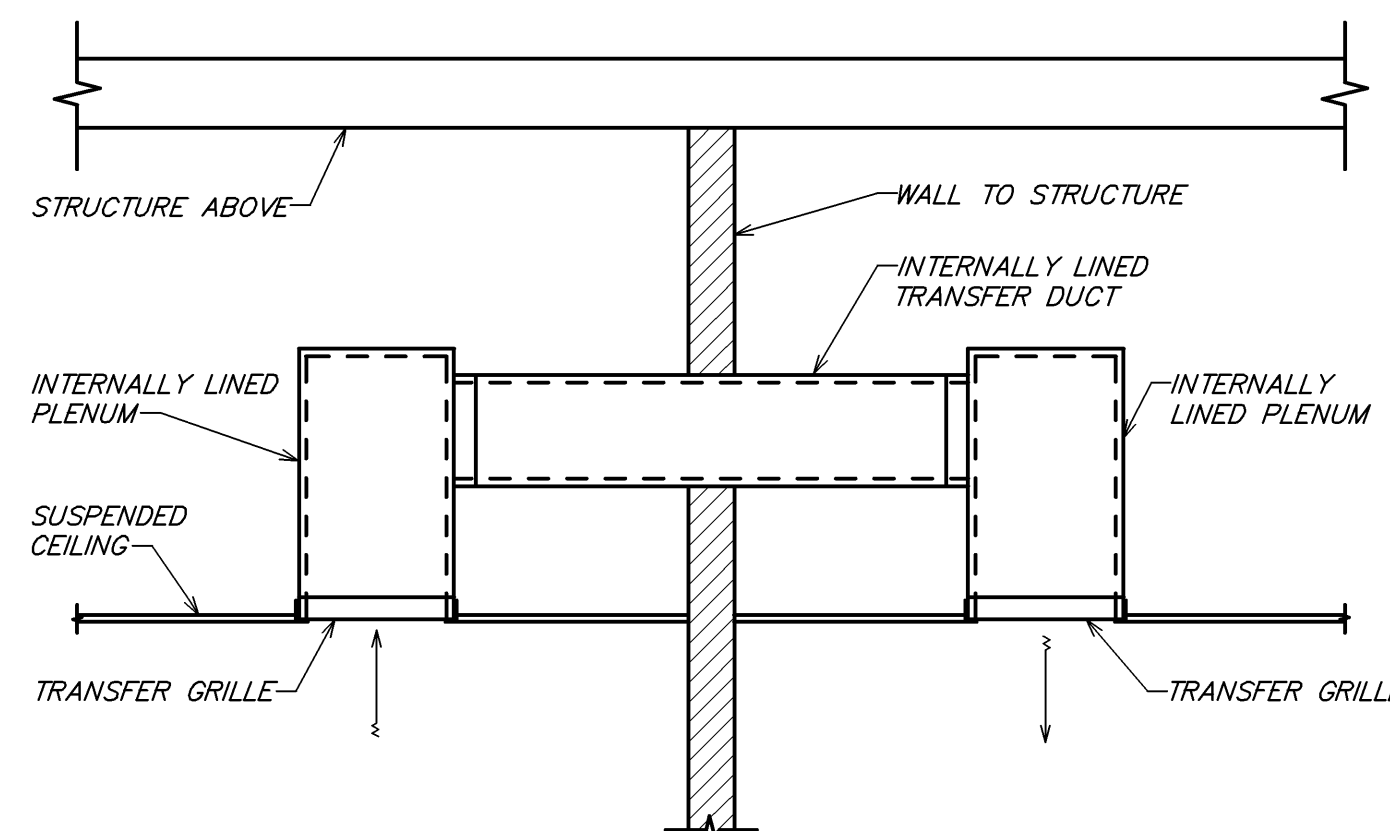
4 TYPICAL DIFFUSER CONNECTION DETAIL
NOT TO SCALE



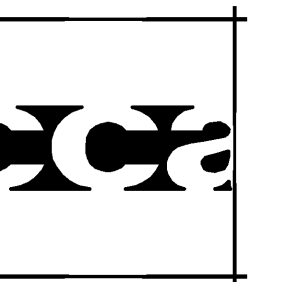
1 DUCTWORK DETAILS
NOT TO SCALE



6 DUCT SMOKE DETECTOR DETAIL
NOT TO SCALE

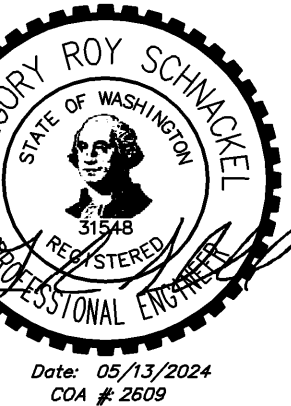


3 RETURN AIR TRANSFER
NOT TO SCALE



Carlile
Coatsworth
architects

1800 MacArthur Boulevard
Suite 300
Irvine, California 92612
949.833.1930
www.carlile-arch.com



PROJECT NO. 24068
DATE: 05/09/2024
DRAWN BY: SEI
SCALE: AS NOTED
FILE:

GROSS AREA 6,719 S.F.

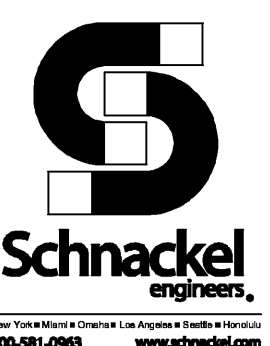
REVISIONS:

City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

SHEET TITLE:
**MECHANICAL
DETAILS**

SHOE PALACE
SOUTH HILL MALL
SPACE 410 & 420
3500 S MERIDIAN
PUYALLUP, WA 98373

PRCT120240836



M2.1

SECTION 230000 - HVAC GENERAL CONDITIONS

PART 1 GENERAL

- 1.01 APPLICABILITY
A. This section supplements all sections of the Specifications for Division 23 and shall apply to all phases of work hereinafter specified, shown on the Drawings, or required to provide a complete installation of approved HVAC systems.
1.02 DEFINITIONS
A. Work is hereby defined as: "The construction and services required by the Contractor specified in the section and included or excluded as labor, materials, equipment, and services provided or to be provided by the Contractor to fulfill the Contractor's obligations. The work may constitute the whole or a part of the project."
B. Furnish is hereby defined as: "To supply and deliver, unload, and inspect for damage."
C. Install is hereby defined as: "To unpack, assemble, erect, apply, place, finish, cure, protect, and place into operation in accordance with the work."
D. Provide is hereby defined as: "To furnish and install."
E. Connect is hereby defined as: "To bring service to the equipment and make final attachment including necessary ductwork, piping, wiring, etc."
F. Concealed is hereby defined as: "Hidden from sight in chases, furred spaces, shafts, hung ceilings, embedded in construction, in crawl spaces, or buried."
G. Exposed is hereby defined as: "Not installed underground nor concealed as defined by the Specifications."
H. Drawings is hereby defined as: "All plans, details, equipment schedules, diagrams, sketches, etc. issued for the construction of the work."
1.03 CODES AND STANDARDS
A. Perform work in accordance with the applicable Building Code, Electrical Code, Fire Code, Mechanical Code, Plumbing Code, Energy Code, and all other applicable codes, ordinances, and regulations. Also perform all work in accordance with the Americans with Disabilities Act (ADA) and the Authority Having Jurisdiction (AHJ) including Fire Marshal(s).
B. Perform work in accordance with Landlord requirements, including any Tenant Criteria Manuals and Lease Exhibits, where applicable.
C. Perform work in accordance with the applicable utility companies serving the project. Make all arrangements with the utility companies for proper coordination of the work.
D. Recognized Standards: Design, manufacture, testing and method of installation of all apparatus and materials furnished under the requirements of these Specifications shall conform to the latest publications and standard rules of Underwriters Laboratories, Inc. (U.L.), American Society for Testing and Materials (ASTM), American National Standards Institute (ANSI), and National Electrical Code (NEC), National Fire Protection Association (NFPA), American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), and the Sheet Metal and Air Conditioning Contractors' National Association (SMACNA).
E. The Contract Documents shall take precedence where the Contract Documents exceed code, Landlord, utility, or recognized standards requirements.
1.04 PERMITS AND FEES
A. Permit licenses, fees, inspections and arrangements required for the work under this Contract shall be obtained by the Contractor at his expense, unless otherwise indicated.
1.05 CONTRACT DRAWINGS
A. The Contractor is responsible to obtain, fully understand, and coordinate the work with the complete set of Contract Documents. Any required corrections, including all associated costs, arising from issues caused by the Contractor's failure to understand and/or coordinate the work with the complete set of Contract Documents are the Contractor's sole responsibility.
B. Work under these sections is diagrammatic unless indicated otherwise and is intended to convey the scope of work and indicate the general arrangement of ductwork, piping, equipment, and accessories. Follow these drawings in laying out the work and verify spaces for the installation of these materials and equipment. Wherever a question exists as to the exact intended location of ductwork, piping, or equipment, obtain instructions from the Architect before proceeding with the work.
C. Notify the Architect for resolution if a discrepancy is discovered within the Contract Documents. Failure of the Contractor to notify the Architect of discrepancies shall result in the resolution becoming the Contractor's responsibility and subject to the Architect's review and possible rejection. Should the Architect reject a discrepancy resolution which they were not notified, the Contractor is fully responsible to correct the installation, including all associated costs, until approval of the installation is given by the Architect.
1.06 EXISTING CONDITIONS
A. Verify all existing conditions prior to beginning work.
B. Any existing conditions indicated in the Contract Documents are based on information drawings provided by others and possibly limited field verification. The Contractor shall adjust for actual field conditions at no additional expense to the Owner.
C. The Contractor shall visit the project site, review existing conditions against the Contract Documents, and familiarize himself with the work prior to bidding and start of the work. By signing the Contract, the Contractor acknowledges the site visit has been completed and the existing conditions are accepted as shown.
D. The Contractor shall notify the Architect of major discrepancies in writing so the appropriate modifications to the design can be made without delay to the project. The Contractor assumes full responsibility of adjusting for discrepancies of which the Architect is not informed.
1.07 SUBMITTALS
A. Shop Drawings:
1. Furnish the following submittals to the Architect for review by the Engineer:
a. Provide product data and shop drawings for vibration isolation.
b. Provide balancing and final test report for Testing, Adjusting, and Balancing.
c. Provide product data for duct insulation.
d. Provide product data for grease duct fireproofing (if specified).
e. Provide product data for HVAC piping insulation.
f. Provide product data and shop drawings for HVAC ductwork.
g. Provide product data for air duct accessories.
h. Provide product data and shop drawings for HVAC power ventilators.
i. Provide product data and shop drawings for air outlets and inlets.
j. Provide product data and shop drawings for packaged rooftop units.
2. Submit all items other than those listed above which will not be reviewed and will be returned stating as such.
3. Shop drawings shall be prepared by a manufacturer's representative, and shall contain names of the manufacturer and cut sheets of equipment to be used on the project. Use manufacturer's specification sheets identified by number indicated on drawings or schedules. Indicate catalog number on the cut sheets. As applicable, provide construction data, weight and dimensional data, voltage ratings, performance data, listing data, pump curves, fan curves and sound data as part of the shop drawing submittal.
4. Submittals are reviewed only for general compliance with the Contract Documents. Dimensions, quantities and details are not checked during the submittal review. Review of the submittals does not relieve the Contractor of the responsibility for providing all materials, equipment and accessories necessary for a complete and operating system meeting the requirements of the project and the intent of the Contract Documents. The responsibility for coordination of substituted materials and equipment lies solely with the substituting Contractor.
5. Electrical Characteristics: Verify that proper power supply is available prior to ordering equipment. Verify proper voltage, phase and current rating of power supply and inform Engineer of any deviations prior to order.
B. Test Reports: Provide Testing, Adjusting, and Balancing (TAB) and Commissioning reports to the Architect for review by the Engineer. All other reports shall be provided to the Owner.
1.08 QUALITY ASSURANCE
A. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum five years experience.
B. Installer Qualifications: Company specializing in performing the work of this section, with minimum five years experience.
C. Products:
1. Listed and classified by Underwriters Laboratories Inc. as suitable for the purpose specified and indicated.
D. All equipment and components shall be free of all rust/corrosion or any visible damage. All items not complying with this requirement shall be replaced without any change in the Contract amount.
E. Equipment performance and accessories shall be as scheduled on the Drawings and specified herein. Inclusion in both locations is not a prerequisite to inclusion in the Contract. Equipment and accessories specified in either location shall be included in the Contract. Provide all necessary accessories and connections as required for a complete, functional system, including all required components reasonably inferred as necessary through such components may or may not be specifically indicated in the Contract Documents.
F. Code or utility company requirements shall supersede any conflicting requirements of this section.
1.09 DELIVERY, STORAGE, AND HANDLING
A. Rooftop Equipment: Protect units from physical damage by storing off site until roof mounting curbs are in place, ready for immediate installation of units.
B. Protect insulation from weather and construction traffic, dirt, water, chemical, and mechanical damage, by storing in original wrapping.
C. Protect dampers and accessories from damage to operating linkages, blades and vanes.
D. Provide temporary end caps and closures on piping and fittings. Maintain in place until installation.
E. Protect materials stored on site from weather and moisture by maintaining factory covers and suitable weather-proof covering. For extended outdoor storage, remove materials from equipment and store separately.
1.10 WARRANTY AND GUARANTEE
A. Submit manufacturer's warranty and ensure forms have been filled out in Owner's name and registered with manufacturer.
B. Provide one year manufacturer warranty for pumps.
C. Provide three year manufacturer warranty for solid state ignition modules.
D. Provide five year manufacturer warranty for compressors, heat exchangers, condensing units, and electronic air cleaners.
PART 2 PRODUCTS
2.01 SUBSTITUTIONS
A. The manufacturers listed are listed to set minimum standards for quality, design,

and functionality. The products of other manufacturers may be submitted, at the Contractor's option, during shop drawing review unless indicated otherwise. The products of other manufacturers shall meet or exceed all requirements of the Contract Documents. The Contractor accepts all responsibility for costs and coordination of the substitution of materials or equipment, and the coordination of such substitutions with all other contractors and subcontractors. The Contractor may use any of the following ductwork, piping or insulation materials at his option, provided the selected material meets with the approval of all State, local authorities and any utility company requirements. Verification of compliance of the selected material is the sole responsibility of the installing Contractor.

PART 3 EXECUTION

- 3.01 COORDINATION OF WORK
A. Examine the Contract Documents as a whole for the work of other trades. Coordinate all work accordingly.
B. Promptly report to the Architect any delay or difficulties encountered in the installation of the work, which might prevent prompt and proper installation, or make it unsuitable to connect with or receive the work of others. Failure to so report shall constitute an acceptance of the work of other trades as being fit and proper for the execution of this work.
C. Plan, lay out, and coordinate the work with all trades well enough in advance so that it proceeds with a minimum of interference to work that has not been completed and work that is in progress. Inform all trades of openings required for the work and provide all special frames, sleeves, and anchor bolts required. The HVAC installation layout may be altered to suit the conditions with engineer approval, prior to the installation of any work and without additional cost to the Owner. Conflicts arising from lack of coordination shall be the Contractor's responsibility.
D. Perform all work in conformity with the Contract Documents and afford other trades reasonable opportunity for the execution of their work. Properly connect and coordinate this work with the work of other trades at such time and in such a manner as is not to delay or interfere with their work.
E. All roofing penetrations shall be flashed and weather sealed by the roofing contractor at this Contractor's expense. This Contractor shall contract with the factory authorized roofing contractor for the specific roofing system applicable to this Project. The use of an unauthorized roofing contractor may result in removal and replacement of the penetration systems at this Contractor's expense.
F. All temperature control wiring, thermostat wiring, damper interlock wiring, control panel interlock wiring and miscellaneous low voltage wiring associated with the equipment furnished or installed under this contract shall be furnished and installed by the mechanical contractor or his sub-contractor. All wiring installed under this contract shall be in full compliance with the National Electrical Code, all State and local codes and requirements of the Electrical Specifications for this project.
3.02 EXAMINATION
A. Verify field measurements as are indicated on the Drawings.
B. Verify all equipment locations prior to rough-in. Maintain adequate equipment service clearance per manufacturer and code.
C. Verify routing of all ductwork and piping in field prior to fabrication or installation. Verify adequate clearance with structure, light fixtures, and ceiling heights.
D. Verify that proper fuel and power supply is available for connection.
3.03 INTERFACE WITH OTHER PRODUCTS
A. Install all ductwork, pipe, equipment, and accessories to preserve fire resistance rating of partitions and other elements, using materials and methods specified.
3.04 FIELD QUALITY CONTROL
A. Provide tests as necessary to establish the adequacy, quality, safety, completed status, and suitable operation of each system. Tests shall be conducted under the supervision of the Architect.
3.05 CLEANING AND REPAIR
A. Clean fire suppression parts to remove harmful materials.
B. Clean exposed surfaces of all ductwork, pipe, equipment, and accessories of all dirt, debris, and other deleterious materials. Follow the manufacturer's recommendations for cleaning as applicable.
C. Repair or replace damaged ductwork, pipe, equipment, and accessories, as directed by the Architect. Repair or replace any deterioration or disfigurement has occurred. All pipe, equipment, and accessories shall be new.
3.06 PROJECT CLOSEOUT
A. Project Record Documents: At project closeout, provide one printed copy and one electronic copy of the project record documents to the Owner. Record documents will not be reviewed by the Engineer.
B. Record Drawings: Information contained on project record drawings shall include, as a minimum:
1. Actual locations of all equipment, ductwork, air inlets/outlets, accessories, and other items.
2. Actual routing of ductwork with sizes and elevations.
3. Actual locations of control devices including valves and volume dampers.
C. Operation and Maintenance Data: Provide descriptive literature, maintenance and repair instructions for all hvac equipment, control systems, accessories and materials used. Include maintenance procedures, intervals, and parts list of each item installed under this contract. Include all manufacturer's guarantees and warranties.
D. Maintenance Materials: At project closeout, furnish to the Owner the following:
1. One set of replacement filters for all hvac equipment.
2. The maintenance schedule, if applicable.
E. Test Reports: Submit to the Owner all testing reports.

END OF SECTION

SECTION 230501 - MECHANICAL DEMOLITION

- PART 1 GENERAL
1.01 SECTION INCLUDES
A. Mechanical demolition.
PART 2 PRODUCTS
2.01 MATERIALS AND EQUIPMENT
A. Maximum equipment for patching and extending work: As specified in individual sections of the architectural specifications.
PART 3 EXECUTION
3.01 EXAMINATION
A. The demolition work indicated on the Drawings is intended to convey the scope of the work. Dimensions, quantities and details are not checked during the submittal review. Review of the submittals does not relieve the Contractor of the responsibility for providing all materials, equipment and accessories necessary for a complete and operating system meeting the requirements of the project and the intent of the Contract Documents. The responsibility for coordination of substituted materials and equipment lies solely with the substituting Contractor.
B. Verify field measurements and piping or duct arrangements as are shown on Drawings.
C. Verify that abandoned piping and equipment serve only abandoned facilities.
D. Demolition drawings are based on casual field observation and existing record documents when available.
E. The existing buildings, structure and utility information indicated on the Drawings are based on as-built information and/or survey documents provided by the Owner. The Contractor shall adjust for minor field variations without additional expense to the project. If major discrepancies are found the Contractor shall advise the Engineer of such deviations in writing so that the appropriate modifications to the Demolition drawings can be made without delay to the Project.
F. Beginning of demolition means installer accepts existing conditions.
3.02 PREPARATION
A. Disconnect mechanical systems in walls, floors, and ceilings to be removed.
B. Coordinate utility service outages with utility company and the Owner.
C. Provide temporary piping, duct and connections to maintain existing systems in service during construction as required for the sequencing of the work or the Owner's need for continued operations. When work must be performed on active equipment or systems, use personnel experienced in such operations.
D. Existing Utility Services: Maintain existing system in service until new system is installed and ready for service. Disable system only to make switchovers and connections. Minimize outage duration.
1. Obtain permission from Owner at least 48 hours before partially or completely disconnecting system.
2. Make temporary connections to maintain service in areas adjacent to work areas.
3.03 DEMOLITION AND EXTENSION OF EXISTING MECHANICAL WORK
A. Remove, relocate, and extend existing installations to accommodate new construction.
B. Remove abandoned systems to source of supply.
C. Remove exposed abandoned pipe and ductwork, including abandoned items above accessible ceiling finishes. Cut pipes or ducts flush with walls and floors, and patch surfaces.
D. Disconnect abandoned outlets and remove equipment. Remove abandoned equipment if systems serving them is abandoned and removed.
E. Disconnect and remove all abandoned mechanical equipment.
F. Remove and remove mechanical devices and equipment serving utilization equipment that has been removed.
G. Repair adjacent construction and finishes damaged during demolition and extension of existing systems.
H. Maintain access to existing installations which remain active. Modify installation or provide access panel as appropriate.
I. Extend existing installations using materials and methods compatible with the existing systems and materials as specified and required by code.
3.04 CLEANING AND REPAIR
A. Clean and repair existing materials and equipment which remain or are to be reused.
B. Provide new components or parts as required to restore operating conditions.

END OF SECTION

SECTION 230548 - VIBRATION AND SEISMIC CONTROLS FOR HVAC PIPING AND EQUIPMENT

- PART 1 GENERAL
1.01 SECTION INCLUDES
A. Vibration isolators.

- B. Equipment:
1. Fans, axial and centrifugal
2. Packaged roof top equipment
1.02 SUBMITTALS
A. Product Data: Provide schedule of vibration isolator type with location and load on each.
PART 2 PRODUCTS
2.01 MANUFACTURERS
A. Isolation Technology, Inc.; Kinetics Noise Control, Inc.; Mason Industries.
2.02 VIBRATION ISOLATORS
A. Restrained Open Spring Isolators:
1. Springs: Minimum horizontal stiffness equal to 75 percent vertical stiffness, with working deflection between 0.3 and 0.6 of maximum deflection. Color code springs for load carrying capacity.
2. Spring Mounts: Provide with leveling devices, minimum 0.25 inch thick neoprene sound pads, and zinc chromate plated hardware.
3. Sound Pads: Size for minimum deflection of 0.05 inch; meet requirements for neoprene pad isolators.
4. Restraints: Provide heavy mounting frame and limit stops.
5. For Exterior and Humid Areas: Hot dipped galvanized housings and neoprene coated springs.
B. Spring Hanger:
1. Springs: Minimum horizontal stiffness equal to 75 percent vertical stiffness, with working deflection between 0.3 and 0.6 of maximum deflection. Color code springs for load carrying capacity.
2. Housings: Incorporate neoprene isolation pad meeting requirements for neoprene pad isolators or rubber hanger with threaded insert.
3. Misalignment: Capable of 20 degree hanger rod misalignment.
4. For Exterior and Humid Areas: Hot dipped galvanized housings and neoprene coated springs.
C. Neoprene Pad Isolators:
1. Rubber or neoprene waffle pads.
a. Hardness: 30 durometer.
b. Thickness: Minimum 1/2 inch.
c. Maximum Loading: 50 lbs.
d. Rib Height: Maximum 0.7 times width.
2. Configuration: Single layer.
D. Rubber Mount or Hanger: Molded rubber designed for 0.4 inch deflection with threaded insert.
E. Glass Fiber Pads: Neoprene jacketed pre-compressed molded glass fiber.

PART 3 EXECUTION

- 3.01 INSTALLATION
A. Install in accordance with manufacturer's instructions.
B. On closed spring isolators, adjust so side stabilizers are clear under normal operating conditions.
C. Prior to making piping connections to equipment with operating weights substantially different from installed weights, block up equipment with temporary shims to final height. When full load is applied, adjust isolators to load to allow shim removal.
D. Support piping connections to equipment mounted on isolators using isolators or resilient hangers to nearest flexible pipe connector.
E. Provide flexible connections on all piping and ductwork connections to equipment. Refer to other sections of this Specification for the acceptable types of flexible connectors to be used.
F. Selection of type, thickness and deflection of vibration isolation shall be by the vibration control manufacturer based on the specific equipment type and size, as scheduled on the Drawings and indicated below.
3.02 SCHEDULES
A. Equipment Isolation Schedule: (Minimum deflection as sized by the isolation equipment manufacturer.)
1. Fans, axial and centrifugal.
a. Small fans up to 22" diameter wheel:
1. Rubber Mount or Hanger
2. Packaged roof top equipment.
a. Above grade roof structures:
1. Restraints: Roof Curbs.
2. Isolation: Full perimeter Neoprene Pad between curb and units.
2. Provide restrained spring vibration isolation curbs when indicated on the Drawings.

END OF SECTION

SECTION 230693 - TESTING, ADJUSTING, AND BALANCING FOR HVAC

- PART 1 GENERAL
1.01 SECTION INCLUDES
A. Testing, adjustment, and balancing of air systems.
1. Air handling units; Packaged heating and/or cooling equipment; Fans, (Exhaust and supply); Coils; Terminal equipment; Air inlets and outlets. (Diffusers, grilles, louvers)
B. Measurement of final operating condition of HVAC systems.
C. Independent agency requirements.
1.02 SUBMITTALS
A. Qualifications: Submit name of adjusting and balancing agency and TAB supervisor for approval within 30 days after award of Contract. Provide TAB Agency qualifications in accordance with the following:
1. Final Report: Indicate deficiencies in systems that would prevent proper testing, adjusting, and balancing of systems and equipment to achieve specified performance.
2. Submit to the Construction Manager within two weeks after completion of testing, adjusting, and balancing.
3. Provide reports in bound manuals, complete with index page and indexing tabs, with cover identification of each report. Provide uniform drawings with air outlets and equipment identified to correspond with data sheets, and indicating thermostat and equipment locations.
4. Include actual instrument list, with manufacturer name, serial number, and date of calibration.
5. Form of Test Reports: Where the TAB standard being followed recommends a report, include the following on the title page of each report:
a. Name, address and telephone number of Testing, Adjusting, and Balancing Agency.
b. Project Name; location; Engineer; Contractor; Report date.
1.03 WARRANTY
A. The Balancing Contractor shall be prepared to return to the site at no additional cost to re-adjust air quantities as required to provide uniform temperatures, eliminate drafts and objectionable noises during the first year of occupancy, including one full heating and one full cooling season, after the acceptance of the final balancing report.
PART 2 PRODUCTS - NOT USED
PART 3 EXECUTION
3.01 GENERAL REQUIREMENTS
A. Perform Total system balance in accordance with one of the following:
1. AABC MN-1, AABC National Standards for Total System Balance.
2. ASHRAE Std 111, Practices for Measurement, Testing, Adjusting and Balancing of Building Heating, Ventilation, Air-Conditioning, and Refrigeration Systems.
3. NEBB Procedural Standards for Testing Adjusting Balancing of Environmental Systems.
4. SMACNA HVAC Systems Testing, Adjusting, and Balancing.
B. Begin work after completion of systems to be tested, adjusted, or balanced and complete work prior to Substantial Completion of the Project.
C. Where HVAC systems and/or components interface with life safety systems, including fire and smoke detection, alarm, and control, coordinate scheduling and testing and inspection procedures with the authorities having jurisdiction.
D. TAB Agency Qualifications:
1. Company specializing in the testing, adjusting, and balancing of systems specified in this Section with a minimum of five years experience.
2. Certified by one of the following:
a. AABC, Associated Air Balance Council; upon completion submit AABC National Performance Guaranty
b. NEBB, National Environmental Balancing Bureau.
c. TABB, The Testing, Adjusting, and Balancing Bureau of National Energy Management Institute.
3. The TAB Agency must be completely independent, third party balancing contractor with no financial, common owners or other ties to the installing contractors.
E. TAB Supervisor and Technician Qualifications: Certified by same organization as TAB Agency.
3.02 ADJUSTMENT TOLERANCES
A. Air Handling Systems, Air Outlets and Inlets; Hydronic Systems: Adjust to within plus or minus 15 percent of design.
3.03 RECORDING AND ADJUSTING
A. Permanently mark settings of valves, dampers, and other adjustment devices allowing settings to be reset, read, and lock memory stops.
B. Mark on the Drawings the locations where traverse and other critical measurements were taken and cross reference the location in the final report.
3.04 AIR SYSTEM PROCEDURES
A. Adjust air handling and distribution systems to provide required or design supply, return, and exhaust air quantities.
B. Make air quantity measurements in ducts by Pitot tube traverse of entire cross sectional area of duct.
C. Measure air quantities at air inlets and outlets.
D. Adjust distribution system to obtain uniform space temperatures free from objectionable drafts and noises.
E. Use volume control devices to regulate air quantities only to extend that adjustments do not create objectionable air motion or sound levels. Effect volume control by duct internal devices such as dampers and spacers. Do not use diffuser, grille or register integral dampers for balancing adjustments unless the plans do not indicate duct mounted devices.
F. Verify total system air quantities by fan speeds. Provide drive changes required at no additional expense to the Owner. Vary branch air quantities

- by damper regulation.
G. Measure static air pressure conditions on air supply units, including filter and coil pressure drops, and total pressure across the fan. Make allowances for 50 percent loading of filters.
H. Adjust outside air automatic dampers, outside air, return air, and exhaust dampers for design conditions in all operating modes as indicated in the sequence of control.
I. Measure temperature conditions across outside air, return air, and exhaust dampers to check leakage.
J. Where modulating dampers are provided, take measurements and balance at extreme conditions and at all intermediate operating conditions specified in the sequence of control. Balance variable volume systems at maximum air flow rate, full cooling, and at minimum air flow rate, full heating.
3.05 SCOPE
A. Equipment Requiring Testing, Adjusting, and Balancing (if present on the project):
1. HVAC Pumps; Boilers; All Air Handling Equipment; All Packaged Heating and/or Cooling Equipment; All Coils; All Heat Exchangers; Terminal Heat Transfer Units; Air Terminal Units; Air Inlets and Outlets
3.06 MINIMUM DATA TO BE REPORTED
A. Report (as applicable to the project):
1. Summary Comments:
a. Design versus final performance
b. Notable characteristics of system
c. Summary of outdoor and exhaust flows to indicate amount of building pressurization
d. Nomenclature used throughout report and test conditions.
B. Electric Motors and Drives:
1. Manufacturer, Model/Frame; HP/BHP; Phase, voltage, amperage; nameplate, actual, no load; RPM; Service factor; Sheave Make/Size/Bore.
2. V-Belt Drives: Identification/location; Required driver RPM; Driven sheave, diameter; and the RPM, Belt, size and quantity.
C. Cooling and Heating Coils:
1. Identification/number; Manufacturer
2. Air flow, design and actual (if applicable)
3. Air pressure drop, design and actual
4. Entering and leaving air DB and WB temperature, design and actual
5. Water pressure drop, design and actual (if applicable)
6. Design velocity
7. Entering and leaving water temperature, design and actual (if applicable)
D. Air Moving Equipment:
1. Identification/number; Manufacturer
2. Air flow, specified and actual
3. Inlet; Discharge; Total static pressure (total external), specified and actual
E. Air Distribution Tests:
1. Air terminal number
2. Room number location
3. Terminal type
4. Terminal size
5. Area factor
6. Design velocity
7. Design air flow
8. Test (final) air velocity
9. Test (final) air flow
10. Percent of design air flow

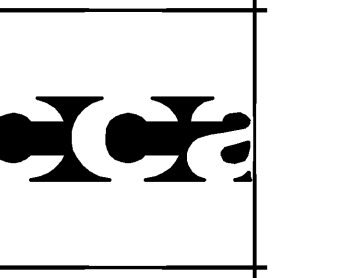
END OF SECTION

SECTION 230713 - DUCT INSULATION

- PART 1 GENERAL
1.01 SECTION INCLUDES
A. Duct insulation.
B. Insulation jackets.
C. Supply, return or exhaust ducts in ceiling spaces.
D. Supply, return or exhaust ducts in interior unconditioned areas.
E. Supply, return or exhaust ducts in exposed locations.
1.02 FIELD CONDITIONS
A. Maintain ambient temperatures and conditions required by manufacturers of adhesives, mastic, and insulation cement.
B. Maintain temperature during and after installation for minimum period of 24 hours.
PART 2 PRODUCTS
2.01 REQUIREMENTS FOR ALL PRODUCTS OF THIS SECTION
A. Surface Burning Characteristics: Flame spread/Smoke developed index of 25/50, maximum when tested in accordance with ASTM E 84, NFA 255, or UL 723.
B. Manufacturer: Knaflex Fiber Glass; Johns Manville Corporation; Owens Corning Corp.; CertainTeed Corporation.
2.02 GLASS FIBER INSULATION
A. Insulation: ASTM C 553; flexible, noncombustible blanket.
1. "K" value: 0.31 at 75 degrees F, when tested in accordance with ASTM C 518.
2. Maximum Service Temperature: 450 degrees F.
3. Maximum Water Vapor Sorption: 5.0 percent by weight.
B. Vapor Barrier Jacket:
1. Kraft paper with glass fiber yarn and bonded to aluminized film.
2. Moisture Vapor Permeability: 0.029 ng/Pa s m (0.02 perm inch), when tested in accordance with ASTM E 96/E 96M.
3. Secure with pressure sensitive tape.
C. Vapor Barrier Tape:
1. Kraft paper reinforced with glass fiber yarn and bonded to aluminized film, with pressure sensitive rubber based adhesive.
D. Outdoor Vapor Barrier Mastic:
1. Vinyl emulsion type acrylic or mastic, compatible with insulation, black color.
E. Tie Wire: Annealed steel, 16 gage.
2.03 DUCT LINER
A. Insulation: Incombustible glass fiber complying with ASTM C 1071; flexible blanket, rigid board and preformed round liner board; impregnated surface and edges coated with acrylic polymer shown to be fungus and bacteria resistant by testing to ASTM G 21.
1. Apparent Thermal Conductivity: Maximum of 0.31 at 75 degrees F.
2. Service Temperature: Up to 250 degrees F.
3. Rated Velocity on Coated Air Side for Air Erosion: 5,000 fpm, minimum.
4. Minimum Noise Reduction Coefficients:
a. 0.95 at 125 Hz.
b. 1 inch thickness: 0.45.
c. 1-1/2 inches thickness: 0.60.
D. Adhesive: Waterproof, fire-retardant type.
E. Liner Fasteners: Galvanized steel, self-adhesive pad or impact applied with integral, or press-on head.

- PART 3 EXECUTION
3.01 INSTALLATION
A. Install in accordance with manufacturer's instructions and NAIMA National Insulation Standards.
B. Insulate ducts conveying air below ambient temperature:
1. Provide insulation with vapor barrier jackets.
2. Finish with tape and vapor barrier jacket.
3. Continue insulation through walls, sleeves, hangers, and other duct penetrations.
4. Insulate entire system including fittings, joints, flanges, fire dampers, flexible connections, and expansion joints.
C. Insulated ducts conveying air above ambient temperature:
1. Provide with or without standard vapor barrier jacket.
2. Provide with vapor barrier adhesive or tape. Where access is required, bevel and seal ends of insulation.
D. External Duct Insulation Application:
1. Secure insulation with vapor barrier with wires and seal jacket joints with adhesive or vapor barrier adhesive or tape to match jacket.
2. Secure insulation without vapor barrier with staples, tape, or wires.
3. Install without sag on underside of duct. Use adhesive or mechanical fasteners by one of the following:
a. Use adhesive or mechanical fasteners where necessary to prevent sagging. Lift duct off trapeze hangers and insert spacers.
b. Seal vapor barrier penetrations by mechanical fasteners with vapor barrier adhesive or tape.
4. Stop and point insulation around access doors and damper operators to allow operation without disturbing wrapping.
E. Duct and Flange Insulation Application:
1. Adhere insulation with adhesive for 90 percent coverage.
2. Secure insulation with mechanical Liner fasteners. Refer to SMACNA HVAC Duct Construction Standards - Metal Flexible for spacing.
3. Seal and smooth joints. Seal and coat traverse joints.
4. Seal liner surface penetrations with adhesive.
5. Duct dimensions indicated are net. Inside dimensions required for air flow. Increase duct size to allow for insulation thickness.
3.02 SCHEDULES
A. The Contractor may use any of the following insulating materials, at his option, provided the selected material meets with the approval of all State, local authorities and utility company requirements. Verification of compliance of the selected insulating material and thickness with all State and local codes and utility company requirements is the sole responsibility of the installing Contractor.
B. Supply air ducts in ceiling spaces:
1. Flexible Glass Fiber Duct Insulation: 1-1/2 inches thick.
2. Flexible Glass Fiber Duct Liner Insulation: 1 inches thick.
C. Supply, return or exhaust air ducts in crawl spaces, attics or other unconditioned areas:
1. Flexible Glass Fiber Duct Insulation: 3 inches thick.
2. Flexible Glass Fiber Duct Liner Insulation: 1 inches thick.
D. Supply air ducts exposed in finished areas:
1. Flexible Glass Fiber Duct Liner Insulation: 1 inches thick.
E. Return or exhaust air ducts exposed in finished areas: None.

END OF SECTION



Carlie architects
18000 MacArthur Boulevard, Suite 300
Irvine, California 92618
949.253.1030
www.carlie-arch.com



Table with project information: PROJECT NO. 24068, DATE 05/09/2024, DRAWN BY: SEI, SCALE AS NOTED, GROSS AREA 6,719 S.F.

REVISIONS:

Table with permit information: City of Puyallup, Development & Permitting Services, ISSUED PERMIT, Building Planning, Engineering Public Works, Fire Traffic.

SHEET TITLE: MECHANICAL SPECIFICATIONS

SHOE PALACE
SOUTH HILL MALL
SPACE 410 & 420
3500 S MERIDIAN
PUYALLUP, WA 98573

PROJ20240836



M3.0

SECTION 233100 - HVAC DUCTS AND CASINGS

- PART 1 GENERAL
- 1.01 SECTION INCLUDES
- A. Metal ductwork.
 - B. Nonmetal ductwork.
 - C. Round spiral ductwork.
 - D. Duct cleaning.
- 1.02 PERFORMANCE REQUIREMENTS
- A. No variation of duct configuration or sizes permitted except by written permission. Size round ducts installed in place of rectangular ducts in accordance with ASHRAE table of equivalent rectangular and round ducts, only after approval of the Engineer. Sizes shown on design drawings are air dimensions. Contractor may increase duct size without engineer approval, provided all ceiling and shaft clearances can be maintained. Additional charges for increased duct size will not be accepted by the owner.
- B. Report all conflicts with structure or other obstructions, prior to fabrication of any ductwork. Suitable adjustments in the sizes of ducts shall be accommodated without any additional expense to the Owner.
- 1.03 SUBMITTALS
- A. Shop Drawings: Indicate duct fittings, particulars such as gages, sizes, welds, and configuration prior to start of work for all systems. No ductwork shall be fabricated until engineer approved shop drawings have been received by the Contractor. Identify on ductwork shop drawings any deviations in sizes or shapes made necessary by the obstructions of other trades.
- B. Test Reports: Indicate pressure tests performed. Include date, section tested, test pressure, and leakage rate, following SMACNA (LEAK) - HVAC Air Duct Leakage Test Manual.
- 1.04 REGULATORY REQUIREMENTS
- A. Construct ductwork to NFPA 90A, NFPA 90B, and NFPA 96 standards.
- B. Code or utility company requirements shall supersede any conflicting requirements of this Section.
- 1.05 FIELD CONDITIONS
- A. Do not install duct sealants when temperatures are less than those recommended by sealant manufacturers.
- B. Maintain temperatures within acceptable range during and after installation of duct sealants.
- PART 2 PRODUCTS
- 2.01 MATERIALS
- A. Galvanized Steel Ducts: Hot-dipped galvanized steel sheet, ASTM A 653/A 653M FS Type, with G90/G95 coating.
 - B. Steel Ducts: ASTM A 1008/A 1008M, Designation CS, cold-rolled commercial steel.
 - C. Aluminum Ducts: ASTM B 209 (ASTM B 209M); aluminum sheet, alloy 3003-H14.
 - D. Aluminum Bar Stock: Alloy 5061-T651 or of equivalent strength.
1. Insulated Flexible Ducts:
1. The Contractor may use any of the following ductwork materials, at his option, provided the selected material meets with the approval of all State, local authorities and utility company requirements. Verification of compliance of the selected ductwork material is the sole responsibility of the installing contractor.
 2. Two ply vinyl film supported by helically wound spring steel wire; fiberglass insulation; aluminum vapor barrier film.
 - a. Pressure Rating: 10 inches WG positive and 1.0 inches WG negative.
 - b. Maximum Velocity: 4000 fpm.
 - c. Temperature Range: -10 degrees F to 160 degrees F.
 - d. Minimum R-Value: 4.2 or greater as required by the applicable energy codes.
 3. Black polymer film supported by helically wound spring steel wire; fiberglass insulation; aluminum vapor barrier film.
 - a. Pressure Rating: 4 inches WG positive and 0.5 inches WG negative.
 - b. Maximum Velocity: 4000 fpm.
 - c. Temperature Range: -20 degrees F to 175 degrees F.
 - d. Minimum R-Value: 4.2 or greater as required by the applicable energy codes.
 4. Multiple layers of aluminum laminate supported by helically wound spring steel wire; fiberglass insulation; aluminum vapor barrier film.
 - a. Pressure Rating: 10 inches WG positive and 1.0 inches WG negative.
 - b. Maximum Velocity: 4000 fpm.
 - c. Temperature Range: -20 degrees F to 210 degrees F.
 - d. Minimum R-Value: 4.2 or greater as required by the applicable energy codes.
 5. UL 181, Class 1, aluminum laminate and polyester film with latex adhesive supported by helically wound spring steel wire; fiberglass insulation; aluminum vapor barrier film.
 - a. Pressure Rating: 10 inches WG positive and 1.0 inches WG negative.
 - b. Maximum Velocity: 4000 fpm.
 - c. Temperature Range: -20 degrees F to 210 degrees F.
 - d. Minimum R-Value: 4.2 or greater as required by the applicable energy codes.
 6. UL 181, Class 0, interlocking spiral of aluminum foil; fiberglass insulation; aluminum vapor barrier film.
 - a. Pressure Rating: 8 inches WG positive or negative.
 - b. Maximum Velocity: 5000 fpm.
 - c. Temperature Range: -20 degrees F to 250 degrees F.
 - d. Minimum R-Value: 4.2 or greater as required by the applicable energy codes.
- E. Joint Sealers and Sealants: Non-hardening, water resistant, mildew and mold resistant.
1. Type: Heavy mastic or liquid used alone or with tape, suitable for joint configuration and compatible with substrates, and recommended by manufacturer for pressure class of ducts.
 2. VOC Content: Not more than 250 g/l, excluding water.
 3. Surface Burning Characteristics: Flame spread of zero, smoke developed of zero, when tested in accordance with ASTM E 84.
 4. For Use With Flexible Ducts: UL labeled.
- F. Ductwork Exposed to the Weather: Hard cast VersaGrip 102, (VG-102), UL 181-AM compliant duct joint sealer, as manufactured by Carlisle, with fiberglass scrim tape reinforcement on all seams and joints, lateral and longitudinal.
- F. Hanger Rod: ASTM A 36/A 36M, steel; threaded both ends, threaded one end, or continuously threaded.
- 2.02 DUCTWORK FABRICATION
- A. Fabricate, support and seal in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible, and as indicated. Provide duct material, gages, reinforcing, and sealing for operating pressures indicated.
 - B. Construct tees, bends, and elbows with radius of not less than 1-1/2 times width of duct on centerline. Where not possible and where rectangular elbows must be used, provide turning vanes. Where acoustical lining is indicated, provide turning vanes of perforated metal with glass fiber insulation.
 - C. Increase duct sizes gradually, not exceeding 15 degrees divergence wherever possible; maximum 30 degrees divergence upstream of equipment and 45 degrees convergence downstream.
 - D. Fabricate continuously welded round and oval duct fittings two gages heavier than duct gages indicated in SMACNA Standards. Joints shall be minimum 4 inch cemented slip joints, or steel or electric welded, fire coat, and welded slip joints.
 - E. Provide standard 45 degree lateral we takeoffs unless otherwise indicated where 90 degree conical tee connections may be used.
 - F. Where ducts are connected to exterior wall louvers and duct outlet is smaller than louver frame, provide blank-out panels sealing louver or louver duct. Use same material as duct, painted black on exterior side; seal to louver frame and duct.
- 2.03 DUCT MANUFACTURERS
- Metal-Fab, Inc.; SEMCO Incorporated; United McGill Corporation.
- 2.04 MANUFACTURED METAL DUCTWORK AND FITTINGS
- A. Manufacture in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible, and as indicated. Provide duct material, gages, reinforcing, and sealing for operating pressures indicated.
 - B. Round Spiral Ducts: Machine made from round spiral lockseam duct with light reinforcing corrugations; fittings manufactured of at least two gages heavier metal than duct.
 - C. Double Wall Insulated Round Ducts: Round spiral lockseam duct with galvanized steel outer wall, 1 inch thick fiberglass insulation, perforated galvanized steel inner wall; fitting with solid inner wall.
 - D. Transverse Duct Connection System: SMACNA "E" rated rigidly class connection, interlocking angle and duct edge connection system with sealant, gasket, cleats, and corner clips.
- PART 3 EXECUTION
- 3.01 EXAMINATION
- A. Examine drawings for the Architectural, Structural, Electrical and all other trades prior to preparation of ductwork shop drawings and prior to the fabrication of any ductwork.
 - B. Resolve any conflicts encountered with the Engineer prior to fabrication.
 - C. Identify on ductwork shop drawings any deviations in sizes or shapes made necessary by the obstructions of other trades.
- 3.02 INSTALLATION
- A. Install in accordance with manufacturer's instructions.
 - B. Duct sizes indicated are inside clear dimensions. For lined ducts, maintain sizes inside lining.
 - C. Install and seal metal and flexible ducts in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible.
 - D. Provide openings in ductwork where required to accommodate thermometers and controllers. Provide pivot tube openings where required for testing of systems, complete with metal can with spring device or screw to ensure against air leakage. Where openings are provided in insulated ductwork, install insulation material inside a metal ring.
 - E. Locate ducts with sufficient space around equipment to allow normal operating and maintenance activities.
 - F. Use crimp joints with or without bead for joining round duct sizes 8 inch and smaller with crimp in direction of air flow.
 - G. Use double nuts and lock washers on threaded rod supports.
 - H. Connect flexible ducts to metal ducts with draw bands.
 - I. Support flexible duct runs every five feet in the horizontal direction to avoid dips and sags.
 - J. Connect terminal units to supply ducts with one foot maximum length of flexible duct. Do not use flexible duct to change direction.
 - K. Connect diffusers to low velocity ducts directly or with 5 feet maximum length of flexible duct held in place with strap or clamp. Longer duct lengths are

- acceptable if depicted on the design drawings and allowed per local code. A maximum of one 90 degree bend, or equivalent, will be allowed in flexible duct runs.
- L. During construction provide temporary closures of metal or taped polyethylene on open ductwork to prevent construction dust from entering ductwork system.
 - M. All exposed ducts in finished areas must be completely free from all dents or imperfections in the galvanized coating and shall be sealed CAREFULLY AND NEATLY with a sealer completely contained within the joint. Duct wrap will not be permitted in exposed locations.
- 3.03 CLEANING
- A. Clean duct system and force air at high velocity through duct to remove accumulated dust or clean with high power vacuum machines. To obtain sufficient air, clean half the system at a time. Protect equipment which may be harmed by excessive dirt with temporary filters, or bypass during cleaning.
- 3.04 SCHEDULES
- A. Ductwork Material:
 - B. The Contractor may use any of the following ductwork materials, at his option, provided the selected material meets with the approval of all State, local authorities and utility company requirements. Verification of compliance of the selected piping material is the sole responsibility of the installing Contractor.
 1. Low Velocity Supply (Heating Systems): Galvanized Steel, Aluminum.
 2. Low Velocity Supply (System with Cooling Coils): Galvanized Steel, Aluminum.
 3. Return and Relief: Galvanized Steel, Aluminum.
 4. General Exhaust: Galvanized Steel, Aluminum.
 5. Outside Air Intake: Galvanized Steel.
 - C. Ductwork Pressure Class:
 1. Low Velocity Supply (Heating Systems): Scheduled System ESP+0.25", round up to next higher pressure class.
 2. Low Velocity Supply (Systems with Cooling): Scheduled System ESP +0.5", round up to next higher pressure class.
 3. Return and Relief: inch.
 4. General Exhaust: Scheduled System ESP +1.0", round up to next higher pressure class.
 5. Outside Air Intake: 1 inch.

SECTION 233300 - AIR DUCT ACCESSORIES

- PART 1 GENERAL
- 1.01 SECTION INCLUDES
- A. Air turning devices/extractors.
 - B. Volume control dampers.
 - C. Flexible duct connections.
 - D. Duct access doors.
- PART 2 PRODUCTS
- 2.01 AIR TURNING DEVICES/EXTRACTORS
- A. Manufacturers: Krueger; Ruskin Company; Titus.
 - B. Multi-blade device with blades aligned in short dimension; steel or aluminum construction; with individually adjustable blades, mounting straps.
- 2.02 VOLUME CONTROL DAMPERS
- A. Manufacturers: Louvers & Dampers, Inc.; Nailor Industries Inc.; Ruskin Company; Tranco Inc.
 - B. Fabricate in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible, and as indicated.
 - C. Single Blade Damper: Fabricate for duct sizes up to 6 x 30 inch.
 - D. Multi-Blade Damper: Fabricate of opposed blade pattern with maximum blade sizes 8 x 72 inch. Assemble center and edge crimped blades in prime coated or galvanized steel frame with suitable hardware.
 - E. End Bearings: Except in round ducts 12 inches and smaller, provide end bearings. On multiple blade dampers, provide oil-impregnated nylon or sintered bronze bearings.
 - F. The contractor shall provide either a mechanical or electrical cable operated system wherever dampers are located in non-accessible areas.
 1. Mechanical cable operator system shall be similar and equal to Young Electric Corporation, "Bowden Cable Control" system including damper, flexible cable with casing and concealed ceiling regulator control.
 2. Electrically operated damper control system shall be similar and equal to United Electric Corporation, "Power Balance" system including motor operated damper, RJ-11 plenum rated cabling and flush ceiling or wall mounted RJ-11 jack in remote plate. Include one hand held battery pack operator pack to be delivered to the Owner upon completion of the balancing.
- 2.03 FLEXIBLE DUCT CONNECTIONS
- A. Fabricate in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible, and as indicated.
 - B. Flexible Duct Connections: Fabric crimped into metal edging strip.
 1. Fabric: UL listed fire-retardant neoprene coated woven glass fiber fabric to NFPA 90A, minimum density 30 oz per sq yd.
 - a. Net Fabric Width: Approximately 48 inches wide.
 - b. Metal: 3 inches wide, 24 gage thick galvanized steel.
- 2.04 DUCT ACCESS DOORS
- A. Manufacturers: Acudor Products Inc.; Nailor Industries Inc.; Ruskin Company; SEMCO Incorporated.
 - B. Fabricate in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible, and as indicated.
 - C. Fabrication: Rigid and close-fitting of galvanized steel with sealing gaskets and quick fastening locking devices. For insulated ducts, install minimum 1 inch thick insulation with sheet metal cover.
 1. Up to 18 inches Square: Provide two hinges and two sash locks.
 2. Access doors with sheet metal screw fasteners are not acceptable.
- PART 3 EXECUTION
- 3.01 INSTALLATION
- A. Install accessories in accordance with manufacturer's instructions, NFPA 90A, and follow SMACNA HVAC Duct Construction Standards - Metal and Flexible. Duct construction and pressure class shall be as indicated.
 - B. Provide duct access doors for inspection and cleaning before and after filters, coils, fans, automatic dampers, or fire dampers, combination fire and smoke dampers, and elsewhere as indicated. Provide minimum 8 x 8 inch size for hand access 18 x 18 inch size for shoulder access, and as indicated. Provide 4 x 4 inch for balancing dampers only. Review locations prior to fabrication.
 - C. Locate all dampers and control elements in accessible areas wherever possible to avoid access doors. Provide access doors for access to all dampers and control elements located above inaccessible ceiling areas. Provide minimum 12 x 12 inch size for hand access, 18 x 18 inch size for shoulder access, and as indicated.
 - D. Provide balancing dampers at points on supply, return, and exhaust systems where branches are taken from larger ducts or required for air balancing. Install minimum 2 duct widths from duct take-off.
 - E. Provide balancing dampers on duct take-off to diffusers, grilles, and registers, regardless of whether dampers are specified as part of the diffuser, grille, or register assembly. Do not locate dampers closer than 5 feet or 10 duct diameters from the air terminal device, whichever is greater.
 - F. At fans and motorized equipment associated with ducts, provide flexible duct connections immediately adjacent to the equipment.
 - G. At equipment supported by vibration isolators, provide flexible duct connections immediately adjacent to the equipment.

SECTION 233423 - HVAC POWER VENTILATORS

- PART 1 GENERAL
- 1.01 SECTION INCLUDES
- A. Cabinet and ceiling fans.
- PART 2 PRODUCTS
- 2.01 MANUFACTURERS
- A. Greenheck; Loren Cook Company; PennBarry; CaptiveAire.
- 2.02 POWER VENTILATORS - GENERAL
- A. Performance Ratings: Determined in accordance with AMCA 210 and bearing the AMCA Certified Rating Seal.
 - B. Sound Ratings: AMCA 301, tested to AMCA 300, and bearing AMCA Certified Sound Rating Seal.
 - C. Fabrication: Conform to AMCA 99.
 - D. UL Compliance: UL listed and labeled, designed, manufactured, and tested as suitable for the purpose specified and indicated.
- 2.03 CABINET AND CEILING FANS
- A. Centrifugal Fan Unit: V-belt or direct driven with galvanized steel housing lined with acoustic insulation, resilient mounted motor, gravity backdraft damper in discharge.
 - B. Disconnect Switch: Cord and plug in housing for thermal overload protected motor.
 - C. Grille: Aluminum with baked white enamel finish or molded white plastic as specified on the Drawings.
 - D. Backdraft Damper: Gravity actuated, aluminum blade construction, felt edged with offset hinge pin, nylon bearings, blade linkage.
 - E. Shafts: Cast Iron or steel, dynamically balanced, bored to fit shafts and keyed; variable and adjustable pitch motor shafts selected so required rpm is obtained with shafts set at mid-position; fan shaft with self-aligning pre-lubricated ball bearings.
- PART 3 EXECUTION
- 3.01 INSTALLATION
- A. Install in accordance with manufacturer's instructions.
 - B. Provide shoves required for final air balance at no additional expense to the project.
 - C. Hang Cabinet Fans:
 1. Ecomonizer shall be furnished and installed complete with outside air and relief dampers and controls.
 2. Install flexible connections specified between fan and ductwork. Ensure

- D. metal bands of connectors are parallel with minimum one inch flex between ductwork and fan while running.
- E. Provide gravity backdraft dampers on outlet from cabinet and ceiling fans and as indicated.

END OF SECTION

SECTION 233700 - AIR OUTLETS AND INLETS

- PART 1 GENERAL
- 1.01 SECTION INCLUDES
- A. Rectangular ceiling diffusers.
 - B. Grid core exhaust and return grilles.
 - C. Wall registers and grilles.
- 1.02 SUBMITTALS
- A. Product Data: Provide data for equipment required for this project. Review outlets and inlets as to size, finish, and type of mounting prior to submission. Submit schedule of outlets and inlets showing type, size, location, application, accessories, and noise level.
- 1.03 QUALITY ASSURANCE
- A. Test and rate air outlet and inlet performance in accordance with ASHRAE Std 70.
 - B. Test and rate lower performance in accordance with AMCA 500-L.
 - C. Code requirements shall supersede any conflicting requirements of this Section.
- 1.04 QUALIFICATIONS
- A. Manufacturer Qualifications: Company specializing in manufacturing the type of products specified in this Section, with minimum five years of documented experience.
- PART 2 PRODUCTS
- 2.01 MANUFACTURERS
- A. Titus; Krueger; Price Industries; Nailor Industries Inc.; Hart & Cooley; Ruskin, Greenheck.
- 2.02 RECTANGULAR CEILING DIFFUSERS
- A. Type: Square, adjustable pattern, stamped, multi-core, or architectural plaque diffuser to discharge air in 360 degree pattern with sectorizing baffles where indicated.
 - B. Frame: Inverted T-bar type. In plaster ceilings, provide plaster frame and ceiling frame. (To allow lift-out removal of the diffuser without removal of the plaster frame.)
 - C. Fabrication: Steel with baked enamel off-white finish.
 - D. Accessories: Opposed blade damper and multi-louvered equalizing grid with damper adjustable from diffuser face.
- 2.03 GRID CORE EXHAUST AND RETURN GRILLES
- A. Type: Fixed grilles of 1/2 x 1/2 x 1 inch louvers.
 - B. Fabrication: Aluminum with factory off-white enamel finish.
 - C. Frame: 1-1/4 inch margin with countersunk screw mounting.
 - D. Frame: Channel lay-in frame for suspended grid ceilings where face size exceeds 18 x 18 inch.
 - E. Damper (if specified on drawings): Integral, gang-operated, opposed blade type with removable key operator, operable from face.
- 2.04 WALL SUPPLY REGISTERS/GRILLES
- A. Type: Streamlined and individually adjustable blades, 3/4 inch minimum depth, 3/4 inch maximum spacing with spring or other device to set blades, horizontal face, double deflection.
 - B. Frame: 1-1/4 inch margin with countersunk screw mounting and gasket.
 - C. Fabrication: Steel with 20 gage minimum frame, or aluminum extrusions, with factory off-white enamel finish.
 - D. Damper: Integral, gang-operated opposed blade type with removable key operator, operable from face.
 - E. Rough Service: Provide front pivoted or welded in place blades, securely fastened to be immobile.
- PART 3 EXECUTION
- 3.01 INSTALLATION
- A. Install in accordance with manufacturer's instructions.
 - B. Check location of outlets and inlets and make necessary adjustments in position to conform with architectural features, symmetry, and lighting arrangement.
 - C. Install diffusers to ductwork with air tight connection.
 - D. Provide balancing dampers on duct take-off to diffusers, and grilles and registers, despite whether dampers are specified as part of the diffuser, or grille and register assembly.
 - E. Paint ductwork visible behind air outlets and inlets matte black.

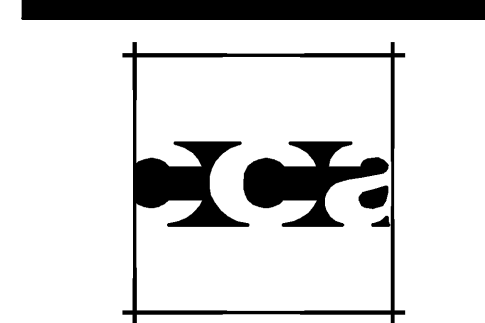
END OF SECTION

SECTION 237413.16 - PACKAGED OUTDOOR ROOF TOP UNITS - HEAT PUMP

- PART 1 GENERAL
- 1.01 SECTION INCLUDES
- A. Packaged roof top units.
 - B. Thermostat controls.
 - C. Remote EMS panel connection.
 - D. Roof mounting curb and base.
 - E. Economizer.
- PART 2 PRODUCTS
- 2.01 MANUFACTURERS
- A. Carrier Corporation; Trane Inc.; Lennox Industries; York; AAOI Incorporated.
- 2.02 AIR CONDITIONING UNITS
- A. General: Roof mounted units having electric heating elements when indicated and electric refrigeration.
 - B. Description: Self-contained, packaged, factory assembled and prewired, consisting of cabinet and frame, supply fan, when indicated provide electric heating elements, controls, air filters, refrigerant cooling coil and compressor, dry bulb economizer and power exhaust fan where indicated on the drawings, condenser coil and condenser fan.
 - C. Electrical Characteristics: As scheduled on the Drawings.
 - D. Disconnect Switch: Factory mount disconnect switch on equipment.
- 2.03 FABRICATION
- A. Cabinet: Steel with baked enamel finish, including access panels with screwdriver operated flush cap top, fastener or door with hinge pins with locking handles. Structural members shall be minimum 18 gage, with access doors or panels of minimum 20 gage.
 - B. Insulation: Minimum 1/2 inch thick neoprene coated glass fiber with edges protected from erosion.
 - C. Supply Fan: Forward curved centrifugal type, resiliently mounted with V-belt drive, adjustable variable pitch motor pulley, and rubber isolated hinge mounted motor or direct drive as indicated. Isolate complete fan assembly.
 1. Fans for units with a mechanical cooling capacity greater than or equal to 65,000 Btu/h shall have a minimum of two stages of fan control.
 - D. Air Filters: 2 inch thick disposable media in metal frames.
 - E. Roof Mounting Curb: Galvanized steel, channel frame, insulated, with gaskets, nailer strips. Provide roof curb of adequate height to provide a unit mounting height of 12' or greater above the top of the roof surface with the curb mounted to the building structure. Roof curb height must compensate for the roof insulation thickness to meet this requirement.
 - F. Vibration Isolation Curb: Only when indicated on the Drawings.
- 2.04 ELECTRIC HEATING COIL (PROVIDE IF INDICATED ON DESIGN DRAWINGS)
- A. Helical nickel-chrome resistance wire coil heating elements with refractory ceramic support bushings or finned tube heating elements easily accessible with automatic reset thermal cut-out, built-in magnetic contactors, galvanized steel frame, control circuit transformer and fuse, manual reset thermal cut-out, airflow proving device, load fuses.
 - B. Controls: Start supply fan before electric elements are energized and continue operating until air temperature reaches minimum setting, with switch for continuous fan operation. Controls shall prevent supplemental heater operation when heating load can be met by the heat pump alone. Heater operation is permitted during outdoor coil defrost cycles.
- 2.05 EVAPORATOR COIL
- A. Provide copper tube aluminum fin coil assembly with galvanized drain pan and connection.
 - B. Provide capillary tubes or thermostatic expansion valves for units of 6 tons capacity and less, and thermostatic expansion valves and alternate row circulating for units 7.5 tons cooling capacity and larger.
- 2.06 COMPRESSOR
- A. Provide hermetic or semi-hermetic compressors, 3600 rpm maximum, resiliently mounted with positive lubrication, crankcase heater, high and low pressure safety controls, motor overload protection, suction and discharge service valves and gage ports, and filter drier.
 - B. Five minute timed off circuit to delay compressor start.
 - C. Outdoor thermostat to energize compressor above 35 degrees F ambient.
 - D. For heat pump units, provide reversing valve, suction line accumulator, discharge muffler, flow control check valve, and solid-state defrost control utilizing thermistors.
- 2.07 CONDENSER COIL
- A. Provide copper tube aluminum fin coil assembly with subcooling rows and coil guard.
 - B. Provide direct drive propeller fans, resiliently mounted with fan guard, motor overload protection, wired to operate with compressor.
- 2.08 MIXED AIR CASING
- A. Dampers: Provide outside, return, and relief dampers with damper operator and control package to automatically vary outside air quantity. Outside air damper to fail to closed position. Relief dampers may be gravity balanced.
 - B. Ducts: Provide tight fitting dampers with edge gaskets minimum leakage 5 percent at 2 inches pressure differential.
 - C. Damper Operator: 24 volt with gear train sealed in oil.
 - D. Damper Operator, Units 7.5 Ton Cooling Capacity and Larger: 24 volt with gear train sealed in oil with spring return fan.
 - E. Mixed Air Controls: Maintain selected supply air temperature and return dampers to minimum position on call for heating operation above 75 degrees F ambient, or when ambient air temperature exceeds return air temperature.
- 2.09 INTEGRATED ECONOMIZER
- A. Economizer shall be furnished and installed complete with outside air and relief dampers and controls.

- B. Provide low-leakage, opposed blade dampers.
 - C. Meet all leakage requirements of applicable energy code.
 - D. Economizer shall be capable of introducing up to 100% outdoor air for minimum ventilation as well as free cooling.
 - E. Damper actuator shall be electrically fully modulating design.
 - F. Economizer outdoor hood shall be pre-painted and fully integrated with the unit.
 - G. Dry Bulb Control: Provide dry bulb sensor capable of measuring temperature of outdoor air and controlling economizer cut-in point at the most economical level. High level cutoff shall be set per applicable energy code.
 - H. Provide economizer Fault Detection and Diagnostics (FDD).
- 2.10 WATER LEVEL MONITORING DEVICES
- A. A water-level monitoring device shall be installed inside the primary drain pan. This device shall shut off the equipment served in the event that the primary drain becomes restricted. Devices installed in the drain line shall not be permitted.
- 2.11 OPERATING CONTROLS
- A. Provide low voltage, adjustable thermostat to control heater stages in sequence with delay between stages, compressor and condenser fan, and supply fan to maintain temperature setting.
 1. Include system selector switch (off-heat-auto-cool) and fan control switch (auto-on).
 2. The Mechanical Contractor shall provide all control wiring between thermostat and unit control panel and any required remote sensors.
 3. Locate thermostat in room as shown.
 4. Electric solid state microcomputer based room thermostat, located as indicated. Provide remote sensors when indicated on the Drawings.
 5. Room thermostat shall incorporate:
 - a. Automatic switching from heating to cooling.
 - b. Preferential rate control to minimize overshoot and deviation from set point.
 - c. Automatic Start Capabilities: Controls shall be capable of automatically adjusting the daily start time of the HVAC system in order to bring each space to the desired occupied temperature immediately prior to scheduled occupancy.
 - d. Set-up for four separate temperatures per day.
 - e. Instant override of set point for continuous or timed period from one hour to 31 days.
 - f. Short cycle protection.
 - g. Programming based on weekdays, Saturday and Sunday.
 - h. Switch selection features including imperial or metric display, 12 or 24 hour clock, keyboard disable, remote sensor, fan on-out.
 6. Room thermostat display shall include:
 - a. Time of day.
 - b. Actual room temperature.
 - c. Programmed temperature.
 - d. Day of week.
 - e. System mode indication: heating, cooling, auto, off, fan auto, fan on.
 - B. Provide terminal strip on unit for connection of operating controls to remote EMS panel with wiring furnished and installed by this Contractor. Control shall allow for stages of heating and stages cooling as required by the unit specific and coordinated with the EMS control system requirements for the control and monitoring functions specified elsewhere.

END OF SECTION



Carlie Coatsworth architects
18600 MacArthur Boulevard Suite 300
Irvine, California 92612
949.833.1030
www.carliecoatsworth.com



PROJECT NO.	24068
DATE	05/09/2024
DRAWN BY	SEI
SCALE	AS NOTED
FILE	
GROSS AREA	6,719 S.F.

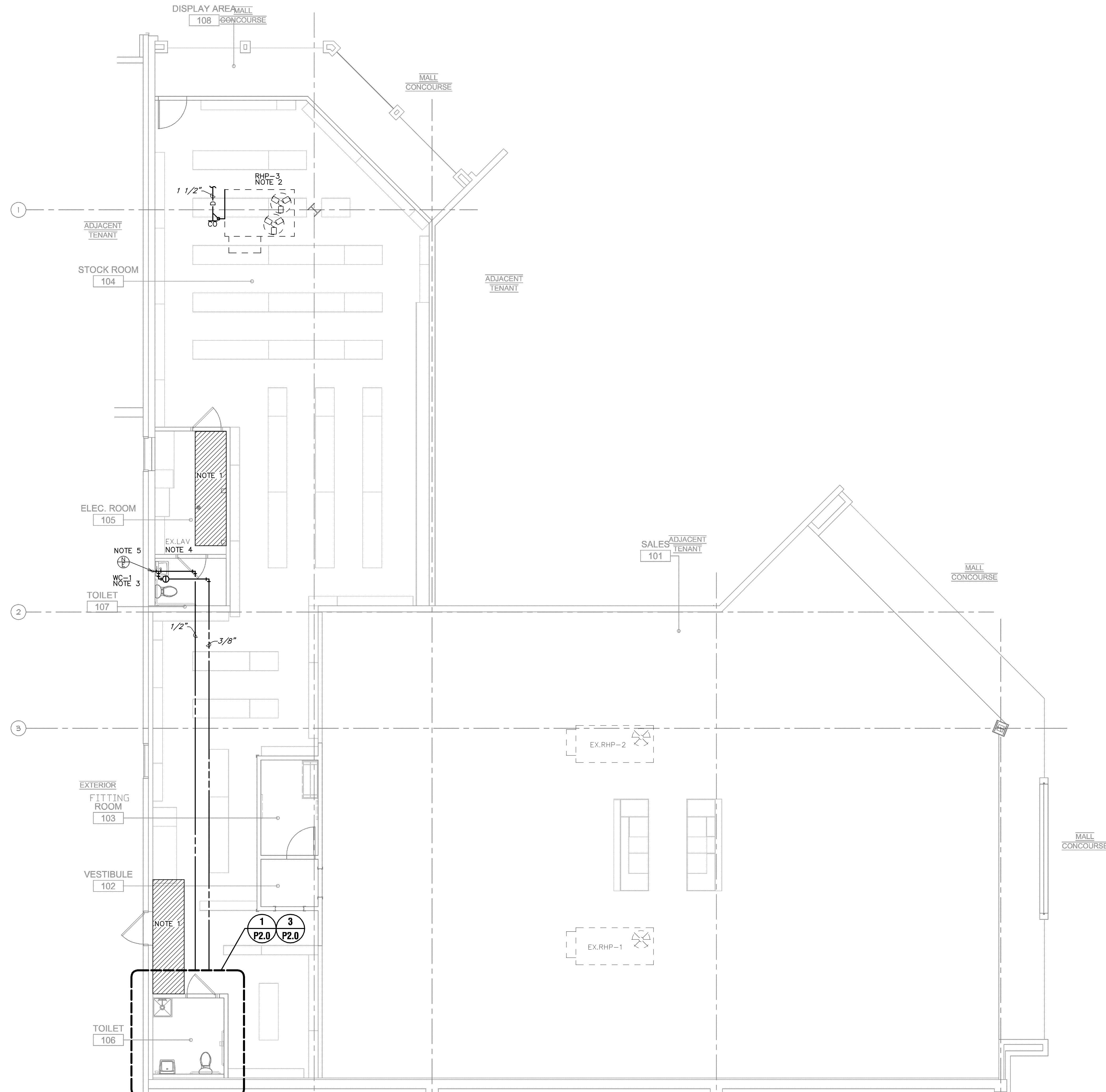
REVISIONS

City of Puyallup	
Development & Permitting Services	
ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

SHEET TITLE: MECHANICAL SPECIFICATIONS

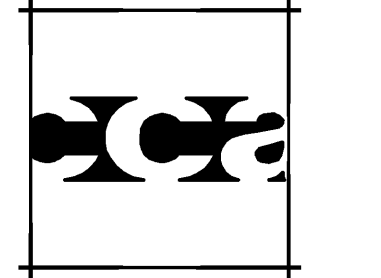
SHOE PALACE
SOUTH HILL MALL
SPACE 410 & 420
3500 S MERIDIAN
PUYALLUP, WA 98573
PRCTI20240836





- GENERAL NOTES:**
- THE EXISTING CONDITIONS ARE BASED ON "AS-BUILT" DRAWINGS AND/OR LIMITED FIELD VERIFICATIONS. THE CONTRACTOR SHALL ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE PROJECT. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY EXTRAS DUE TO THE CONTRACTOR'S FAILURE TO VISIT THE PROJECT SITE AND/OR PREDETERMINATION OF EXISTING CONDITIONS PRIOR TO SUBMITTING THE BID. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION.
 - THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE INCIDENTAL DEMOLITION WORK PRIOR TO BIDDING AND COMMENCEMENT OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF ALL EXISTING EQUIPMENT AS REQUIRED FOR THE INSTALLATION/CONSTRUCTION OF NEW WORK.
 - ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE GOVERNMENTAL AND LOCAL CODE REQUIREMENTS.
 - PROVIDE ACCESS PANELS AS REQUIRED TO ALLOW ACCESS TO VALVES, EQUIPMENT, ETC., LOCATED ABOVE INACCESSIBLE CEILINGS AND WALL CAVITIES.
 - ALL SANITARY LINES AND PLUMBING FIXTURES ON THE PROJECT SHALL HAVE AN APPROVED MEANS OF SEWAGE BACKFLOW PREVENTION. FIXTURE SPECIFIC BACKFLOW PREVENTION INCLUDING AIR GAPS AND VACUUM BREAKERS ARE AN ACCEPTABLE MEANS OF BACKFLOW PREVENTION.
 - PIPE SIZES INDICATED ON THE PLANS ARE MINIMUM. THE CONTRACTOR SHALL PROVIDE PIPE SIZES EQUAL TO OR GREATER THAN THE SPECIFIED SIZES. THE CONTRACTOR MAY INCREASE PIPE SIZES AS REQUIRED AT NO ADDITIONAL EXPENSE TO THE PROJECT.
 - REFER TO THE PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL PLUMBING FIXTURE CONNECTION SIZE REQUIREMENTS.
 - COORDINATE ALL SLAB PENETRATIONS WITH GENERAL CONTRACTOR PRIOR TO CONSTRUCTION. MAINTAIN A MINIMUM OF 2" CLEARANCE FROM THE EDGE OF THE SLAB OPENING TO ANY STRUCTURAL MEMBERS AND PIPES.
 - SLEEVE OR CORE-DRILL FLOOR SLABS, WALLS, ETC., AS REQUIRED FOR PIPING AND FIRE-STOP OPENING AROUND PIPE. VERIFY LOCATION OF STRUCTURAL BEAMS, JOISTS, ETC. BEFORE DRILLING.
 - THE CONTRACTOR SHALL OBTAIN A COPY OF THE LANDLORD'S TENANT CRITERIA MANUAL PRIOR TO BIDDING. THE TENANT CRITERIA MANUAL REQUIREMENTS SHALL BE INCLUDED IN THE CONTRACTOR CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE LANDLORD REQUIREMENTS AT NO ADDITIONAL EXPENSE TO THE PROJECT.
 - ALL HANDICAPPED ACCESSIBLE WATER CLOSETS SHALL HAVE THE FLUSHING HANDLE ON THE WIDE SIDE OF THE HANDICAPPED ACCESSIBLE STALL AS REQUIRED BY ADA REQUIREMENTS.
 - THE ENTIRE AREA UNDER CONSTRUCTION SHALL BE PROVIDED WITH A COMPLETE FIRE SPRINKLER SYSTEM IN ALL RESPECTS. RELOCATE/ADD NEW SPRINKLER DROPS TO EXISTING SYSTEMS WHERE REQUIRED TO PROVIDE COMPLETE COVERAGE THROUGHOUT THE AREA OF CONSTRUCTION. COORDINATE FIRE SPRINKLER PIPING AND HEAD LOCATIONS WITH ALL TRADES PRIOR TO FABRICATION AND/OR INSTALLATION. IF CONFLICTS OCCUR BETWEEN FIRE SPRINKLER PIPING/HEADS AND LIGHTS, DIFFUSERS, DUCTWORK, ETC., THE FIRE SPRINKLER PIPING/HEADS SHALL BE RELOCATED OR REROUTED AT NO ADDITIONAL EXPENSE TO THE PROJECT. AN ADEQUATE SUPPLY OF EXTRA PIPING AND FITTINGS SHALL BE MAINTAINED ON SITE TO ALLOW FOR FIELD MODIFICATIONS. PERFORM HYDRAULIC CALCULATIONS AS REQUIRED BY NFPA, LOCAL, STATE CODES, AND THE OWNER'S INSURANCE AGENCY. APPROVED SHOP DRAWINGS DO NOT PRECLUDE REROUTING IF SO REQUIRED BY THE ARCHITECT/ENGINEER.

- PLUMBING NOTE**
- THIS SPACE IS RESERVED FOR ELECTRICAL EQUIPMENT. NO PIPING SHALL PASS BELOW, ABOVE, OR AROUND ELECTRICAL EQUIPMENT. PROVIDE CODE REQUIRED MINIMUM CLEARANCE ABOVE ELECTRICAL EQUIPMENT ACCESS SPACE.
 - ROUTE THE CONDENSATE PIPING ON THE ROOF FROM THE ROOFTOP UNIT TO THE NEAREST ROOF DRAIN OR GUTTER. THE CONDENSATE SHALL BE CONNECTED TO THE ROOFTOP UNIT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. VERIFY CONDENSATE REMOVAL REQUIREMENTS WITH LOCAL JURISDICTION PRIOR TO INSTALLATION. IF CONFLICTS OCCUR, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY.
 - PROVIDE NEW PLUMBING FIXTURE AS SCHEDULED AND RECONNECT TO EXISTING UTILITY ROUGH-INS. ADJUST EXISTING ROUGH-INS AS NECESSARY TO CONNECT TO NEW FIXTURE.
 - EXISTING PLUMBING FIXTURE TO REMAIN. CONTRACTOR SHALL REVIEW CONDITION OF EXISTING FIXTURE AND BRING TO LIKE NEW CONDITION. COORDINATE WITH OWNERS REPRESENTATIVE IF EXISTING FIXTURE NEEDS TO BE REPLACED.
 - CONNECT THE NEW DOMESTIC HOT WATER LINE TO AN EXISTING HOT WATER LINE OF EQUAL OR GREATER SIZE. FIELD VERIFY THE EXACT LOCATION AND SIZE OF THE EXISTING WATER LINE PRIOR TO CONSTRUCTION. ADJUST THE NEW WATER LAYOUT AS REQUIRED TO ALLOW FOR CONNECTION TO THE EXISTING WATER SYSTEM.



**Carlite
Coatsworth
architects**
1800 MacArthur Boulevard
Suite 300
Irvine, California 92612
949.833.1930
www.carlite-arch.com



PROJECT NO.	24068
DATE	05/09/2024
DRAWN BY	SEI
SCALE	AS NOTED
FILE	
GROSS AREA	6,719 S.F.

REVISIONS:

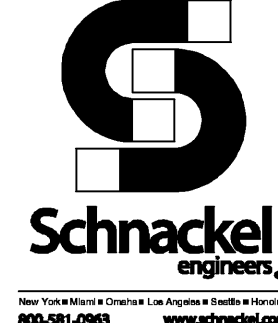
City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

SHEET TITLE:
**OVERALL
PLUMBING PLAN**

SHOE PALACE
SOUTH HILL MALL
SPACE 410 & 420
3500 S MERIDIAN
PUYALLUP, WA 98373

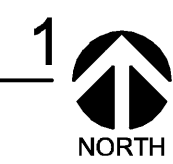
PRCTI20240836



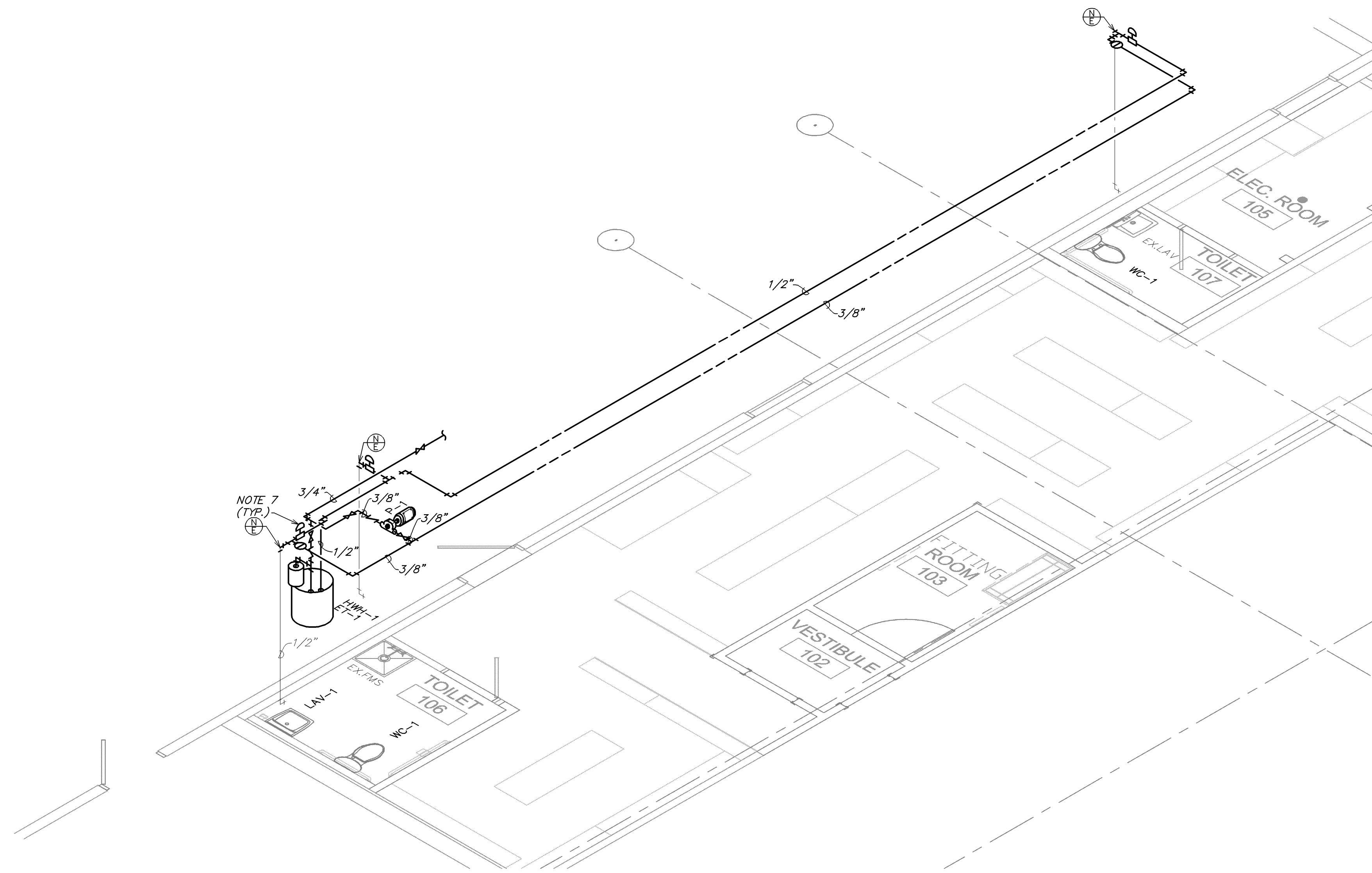
P1.0

OVERALL PLUMBING PLAN

SCALE: 3/16" = 1'-0"



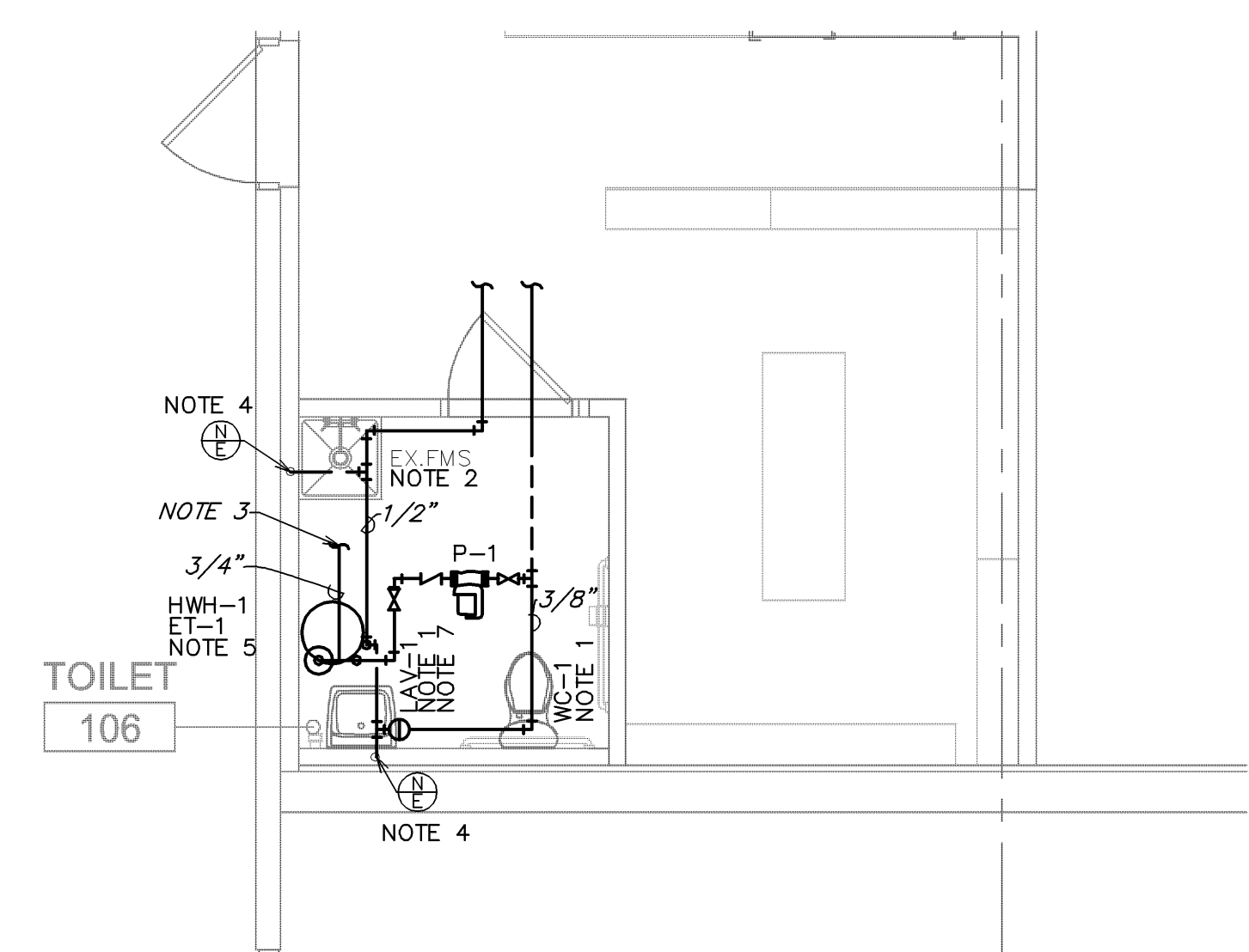
BE JOB# 240291



WATER RISER DIAGRAM

NOT TO SCALE

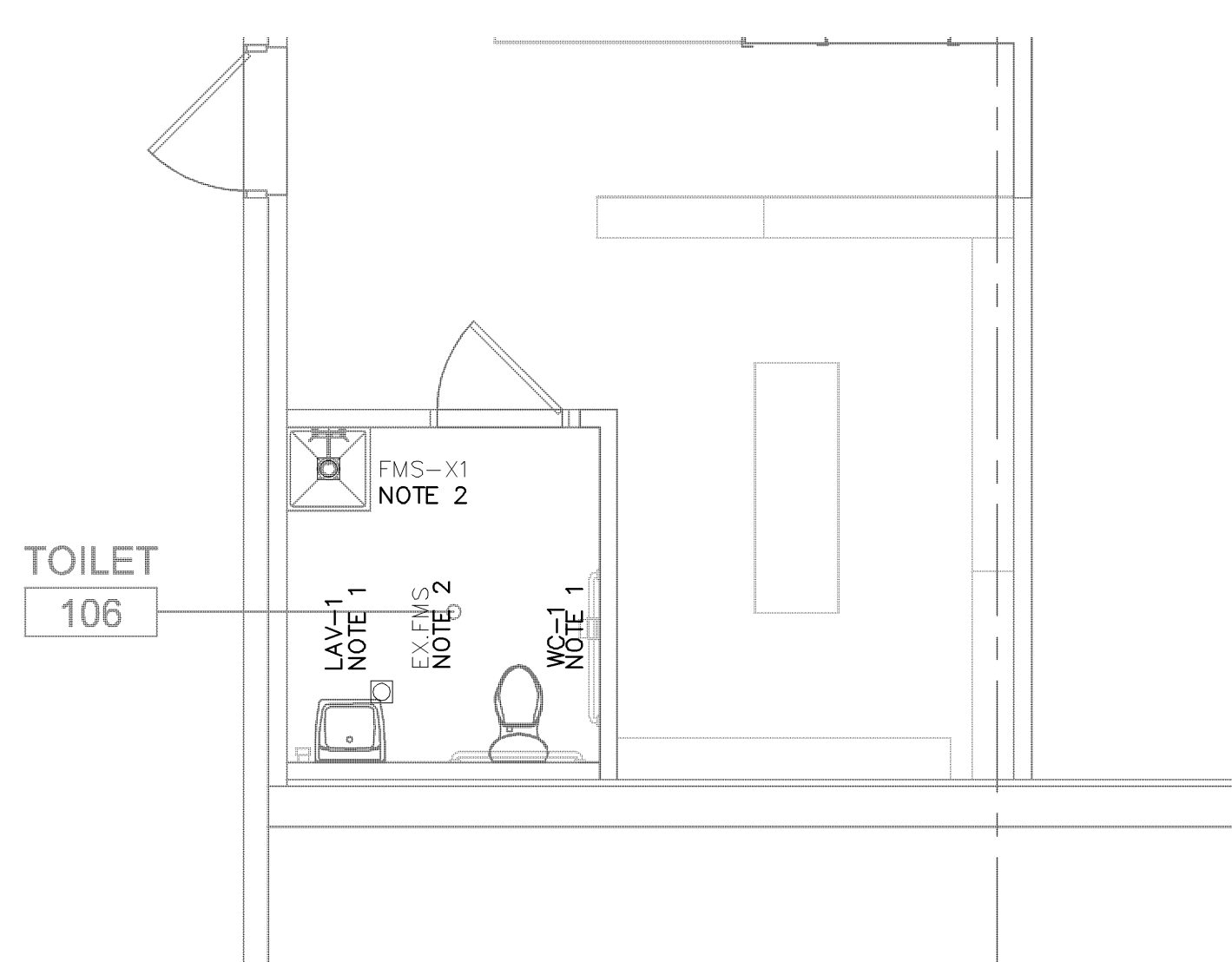
2



ENLARGED WATER PLAN

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

3



ENLARGED SANITARY PLAN

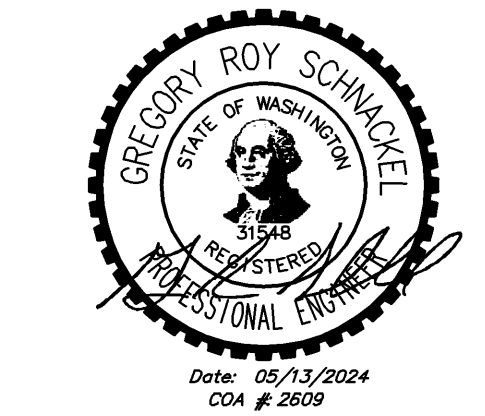
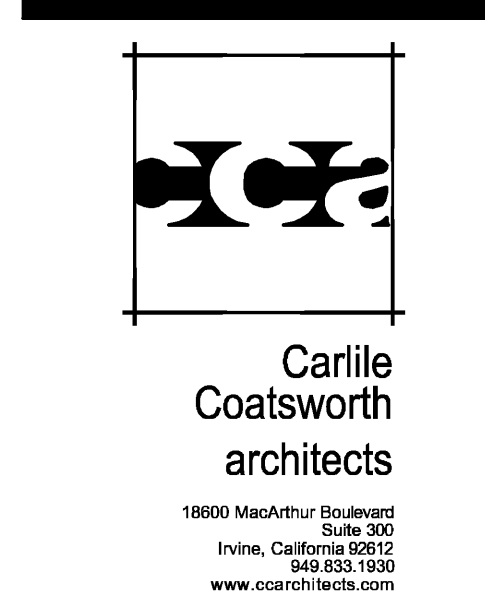
SCALE: 1/4"=1'-0"

1



- GENERAL NOTES:**
- THE EXISTING CONDITIONS ARE BASED ON "AS-BUILT" DRAWINGS AND/OR LIMITED FIELD VERIFICATIONS. THE CONTRACTOR SHALL ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE PROJECT. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ANY EXTRAS DUE TO THE CONTRACTOR'S FAILURE TO VISIT THE PROJECT SITE AND/OR PREDETERMINATION OF EXISTING CONDITIONS PRIOR TO SUBMITTING THE BID. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION.
 - THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE INCIDENTAL DEMOLITION WORK PRIOR TO BIDDING AND COMMENCEMENT OF WORK. THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF ALL EXISTING EQUIPMENT AS REQUIRED FOR THE INSTALLATION/CONSTRUCTION OF NEW WORK.
 - ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE GOVERNMENTAL AND LOCAL CODE REQUIREMENTS.
 - PROVIDE ACCESS PANELS AS REQUIRED TO ALLOW ACCESS TO VALVES, EQUIPMENT, ETC., LOCATED ABOVE INACCESSIBLE CEILINGS AND WALL CAVITIES.
 - ALL SANITARY LINES AND PLUMBING FIXTURES ON THE PROJECT SHALL HAVE AN APPROVED MEANS OF SEWAGE BACKFLOW PREVENTION. FIXTURE SPECIFIC BACKFLOW PREVENTION INCLUDING AIR GAPS AND VACUUM BREAKERS ARE AN ACCEPTABLE MEANS OF BACKFLOW PREVENTION.
 - PIPE SIZES INDICATED ON THE PLANS ARE MINIMUM. THE CONTRACTOR SHALL PROVIDE PIPE SIZES EQUAL TO OR GREATER THAN THE SPECIFIED SIZES. THE CONTRACTOR MAY INCREASE PIPE SIZES AS REQUIRED AT NO ADDITIONAL EXPENSE TO THE PROJECT.
 - REFER TO THE PLUMBING FIXTURE SCHEDULE FOR INDIVIDUAL PLUMBING FIXTURE CONNECTION SIZE REQUIREMENTS.
 - COORDINATE ALL SLAB PENETRATIONS WITH GENERAL CONTRACTOR PRIOR TO CONSTRUCTION. MAINTAIN A MINIMUM OF 2" CLEARANCE FROM THE EDGE OF THE SLAB OPENING TO ANY STRUCTURAL MEMBERS AND PIPES.
 - SLEEVE OR CORE-DRILL FLOOR SLABS, WALLS, ETC., AS REQUIRED FOR PIPING AND FIRE-STOP OPENING AROUND PIPE. VERIFY LOCATION OF STRUCTURAL BEAMS, JOISTS, ETC. BEFORE DRILLING.
 - THE CONTRACTOR SHALL OBTAIN A COPY OF THE LANDLORD'S TENANT CRITERIA MANUAL PRIOR TO BIDDING. THE TENANT CRITERIA MANUAL REQUIREMENTS SHALL BE INCLUDED IN THE CONTRACTOR CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE LANDLORD REQUIREMENTS AT NO ADDITIONAL EXPENSE TO THE PROJECT.
 - ALL HANDICAPPED ACCESSIBLE WATER CLOSETS SHALL HAVE THE FLUSHING HANDLE ON THE WIDE SIDE OF THE HANDICAPPED ACCESSIBLE STALL AS REQUIRED BY ADA REQUIREMENTS.
 - PROVIDE TEMPORARY COVERS, CAPS, OR PLUGS ON SANITARY SEWER SYSTEM THROUGHOUT THE DURATION OF CONSTRUCTION. RAG WADS, DUCT TAPE, OR OTHER SIMILAR METHODS OF TEMPORARY COVERS SHALL NOT BE UTILIZED. UPON COMPLETION OF CONSTRUCTION, COMPLETELY REMOVE ANY AND ALL OBSTRUCTIONS INSIDE THE ENTIRE SYSTEM BY SNAKING, RODING, OR JETTING THE SYSTEM IMMEDIATELY PRIOR TO PROJECT TURNOVER TO THE OWNER.
 - ALL BELOW GRADE SANITARY LINES SHALL BE A MINIMUM OF 2" OR IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
 - SANITARY TEE FITTINGS SHALL NOT BE INSTALLED IN DRAIN, WASTE, AND VENT (DWV) SYSTEMS.
 - INSTALL SANITARY PIPING 3" OR SMALLER AT A SLOPE OF 1/4" PER FOOT AND SANITARY PIPING 4" AND LARGER AT A SLOPE OF 1/8" PER FOOT.
 - ALL PUBLIC USE LAVATORY FAUCETS SHALL HAVE AN AUTOMATIC SAFETY WATER MIXING DEVICE IN ACCORDANCE WITH ANSI/ASSE 1017 OR 1070 AS APPLICABLE. THE ENTIRE AREA UNDER CONSTRUCTION SHALL BE PROVIDED WITH A COMPLETE FIRE SPRINKLER SYSTEM IN ALL RESPECTS. RELOCATE/ADD NEW SPRINKLER DROPS TO EXISTING SYSTEMS WHERE REQUIRED TO PROVIDE COMPLETE COVERAGE THROUGHOUT THE AREA OF CONSTRUCTION. COORDINATE FIRE SPRINKLER PIPING AND HEAD LOCATIONS WITH ALL TRADES PRIOR TO FABRICATION AND/OR INSTALLATION. IF CONFLICTS OCCUR BETWEEN FIRE SPRINKLER PIPING/HEADS AND LIGHTS, DIFFUSERS, DUCTWORK, ETC., THE FIRE SPRINKLER PIPING/HEADS SHALL BE RELOCATED OR REROUTED AT NO ADDITIONAL EXPENSE TO THE PROJECT. AN ADEQUATE SUPPLY OF EXTRA PIPING AND FITTINGS SHALL BE MAINTAINED ON SITE TO ALLOW FOR FIELD MODIFICATIONS. PERFORM HYDRAULIC CALCULATIONS AS REQUIRED BY NFPA, LOCAL, STATE CODES, AND THE OWNER'S INSURANCE AGENCY. APPROVED SHOP DRAWINGS DO NOT PRECLUDE REROUTING IF SO REQUIRED BY THE ARCHITECT/ENGINEER.

- PLUMBING NOTES:**
- PROVIDE NEW PLUMBING FIXTURE AS SCHEDULED AND RECONNECT TO EXISTING UTILITY ROUGH-INS. ADJUST EXISTING ROUGH-INS AS NECESSARY TO CONNECT TO NEW FIXTURE.
 - EXISTING PLUMBING FIXTURE TO REMAIN. CONTRACTOR SHALL REVIEW CONDITION OF EXISTING FIXTURE AND BRING TO LIKE NEW CONDITION. COORDINATE WITH OWNERS REPRESENTATIVE IF EXISTING FIXTURE NEEDS TO BE REPLACED.
 - CONNECT THE NEW DOMESTIC COLD WATER LINE TO AN EXISTING COLD WATER LINE OF EQUAL OR GREATER SIZE. FIELD VERIFY THE EXACT LOCATION AND SIZE OF THE EXISTING WATER LINE PRIOR TO CONSTRUCTION. ADJUST THE NEW WATER LAYOUT AS REQUIRED TO ALLOW FOR CONNECTION TO THE EXISTING WATER SYSTEM.
 - CONNECT THE NEW DOMESTIC HOT WATER LINE TO AN EXISTING HOT WATER LINE OF EQUAL OR GREATER SIZE. FIELD VERIFY THE EXACT LOCATION AND SIZE OF THE EXISTING WATER LINE PRIOR TO CONSTRUCTION. ADJUST THE NEW WATER LAYOUT AS REQUIRED TO ALLOW FOR CONNECTION TO THE EXISTING WATER SYSTEM.
 - FURNISH AND INSTALL WATER HEATER AND EXPANSION TANK ON SHELF AS INDICATED ON THE PLANS. SET THE DISCHARGE TEMPERATURE TO 140 DEG. F. REFER TO ARCHITECTURAL PLANS FOR WATER HEATER SHELF REQUIREMENTS AND EXACT LOCATION. PIPE WATER HEATER RELIEF AND SECONDARY DRAIN PAN DISCHARGE TO THE NEAREST MOP SINK OR FLOOR DRAIN BELOW THE WATER HEATER. PROVIDE A CODE APPROVED AIR GAP ON THE DISCHARGE OF THE WATER HEATER RELIEF AND SECONDARY DRAIN. REFER TO DETAILS SHEET FOR ADDITIONAL INFORMATION.
 - PROVIDE THERMOSTATIC MIXING VALVE, POWERS #LFE480 OR EQUAL, BELOW FIXTURE. SET TEMPERATURE AS REQUIRED BY LOCAL JURISDICTION. THERMOSTATIC MIXING VALVE SHALL BE IN ACCORDANCE WITH ANSI/ASSE 1070. WATER HAMMER ARRESTORS SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. LOCATIONS SHOWN ARE FOR REFERENCE PURPOSES ONLY.



PROJECT NO.	24068
DATE	05/09/2024
DRAWN BY	SEI
SCALE	AS NOTED
FILE	
GROSS AREA	6,719 S.F.

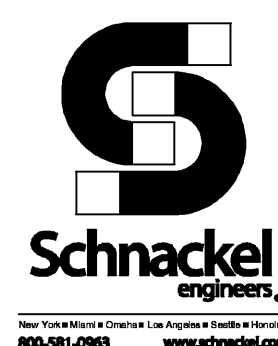
REVISIONS	

City of Puyallup	
Development & Permitting Services	
ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

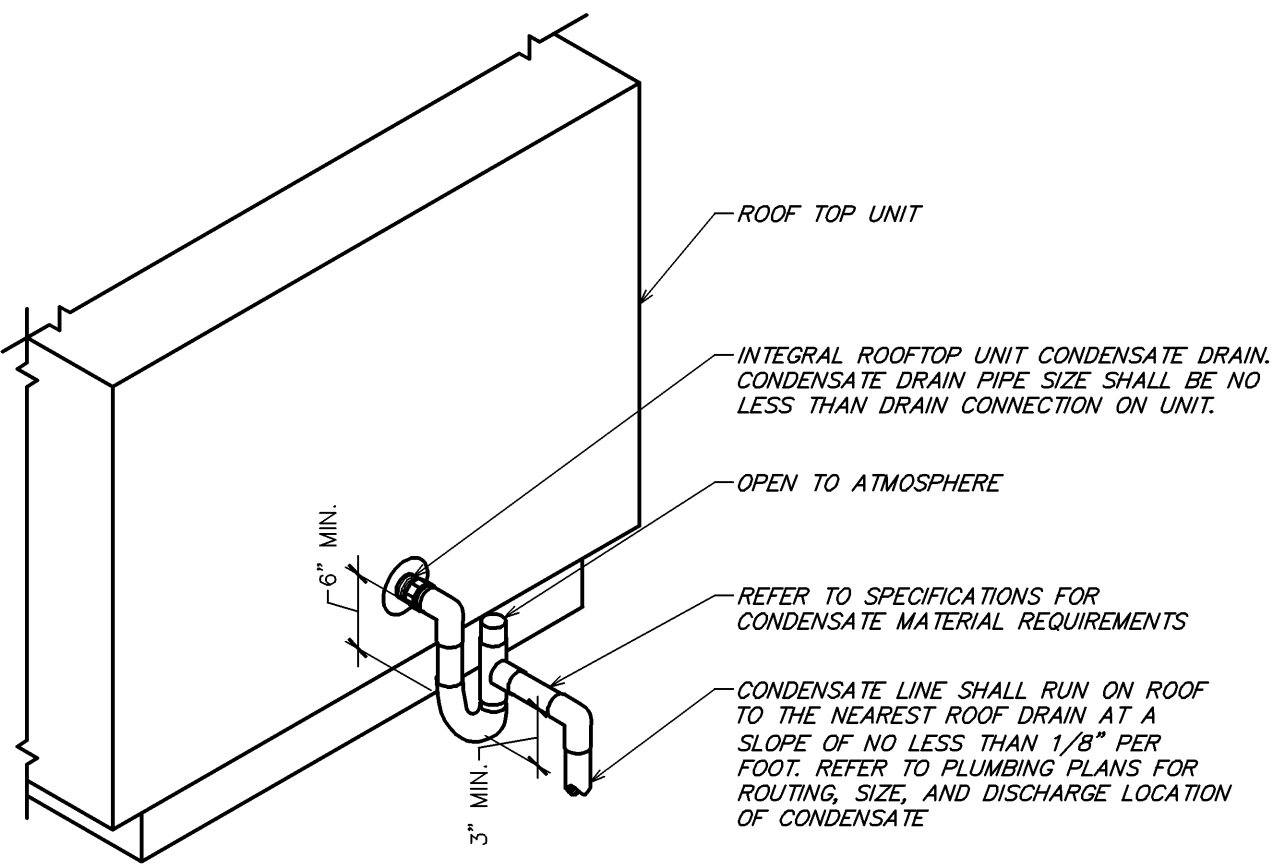
SHEET TITLE:
ENLARGED PLUMBING PLAN

SHOE PALACE
SOUTH HILL MALL
SPACE 410 & 420
3500 S MERIDIAN
PUYALLUP, WA 98373

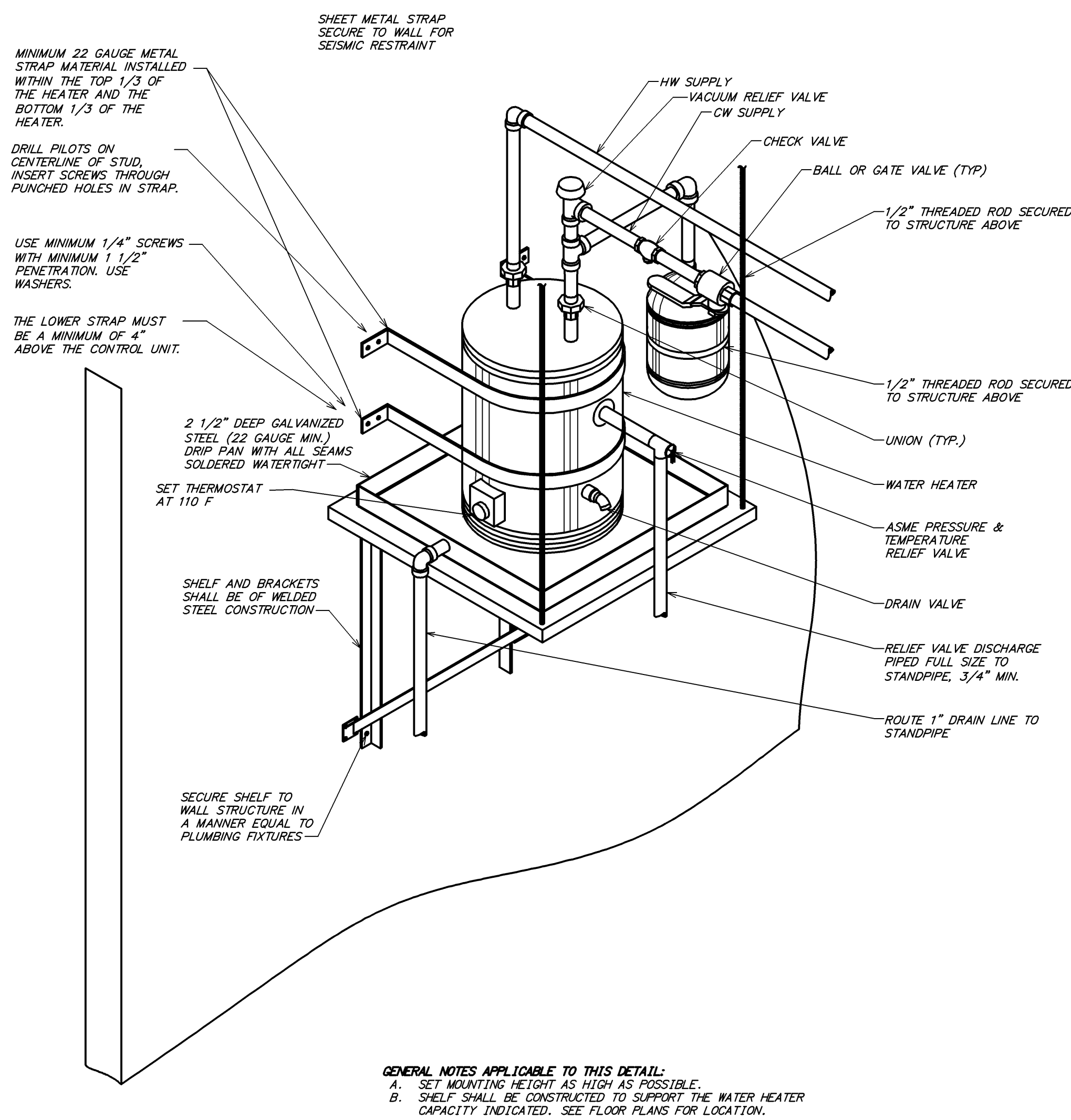
PROJ20240836



P2.0

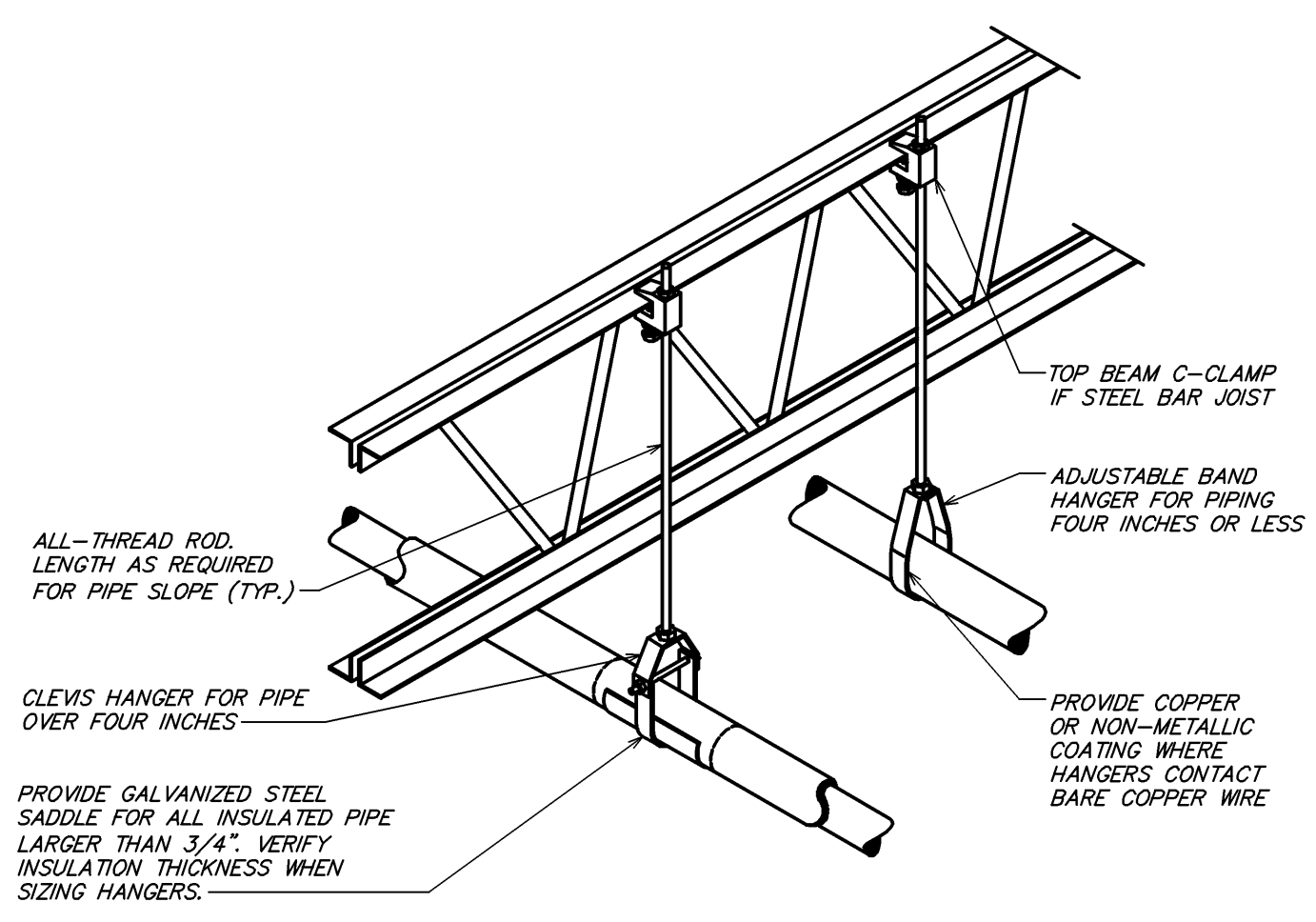


4 ROOFTOP UNIT CONDENSATE TRAP
NOT TO SCALE



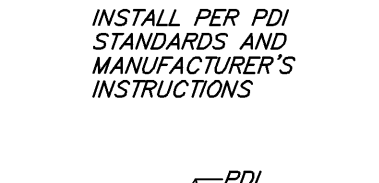
GENERAL NOTES APPLICABLE TO THIS DETAIL:
A. SET MOUNTING HEIGHT AS HIGH AS POSSIBLE.
B. SHELF SHALL BE CONSTRUCTED TO SUPPORT THE WATER HEATER CAPACITY INDICATED. SEE FLOOR PLANS FOR LOCATION.

2 WATER HEATER DETAIL
NOT TO SCALE



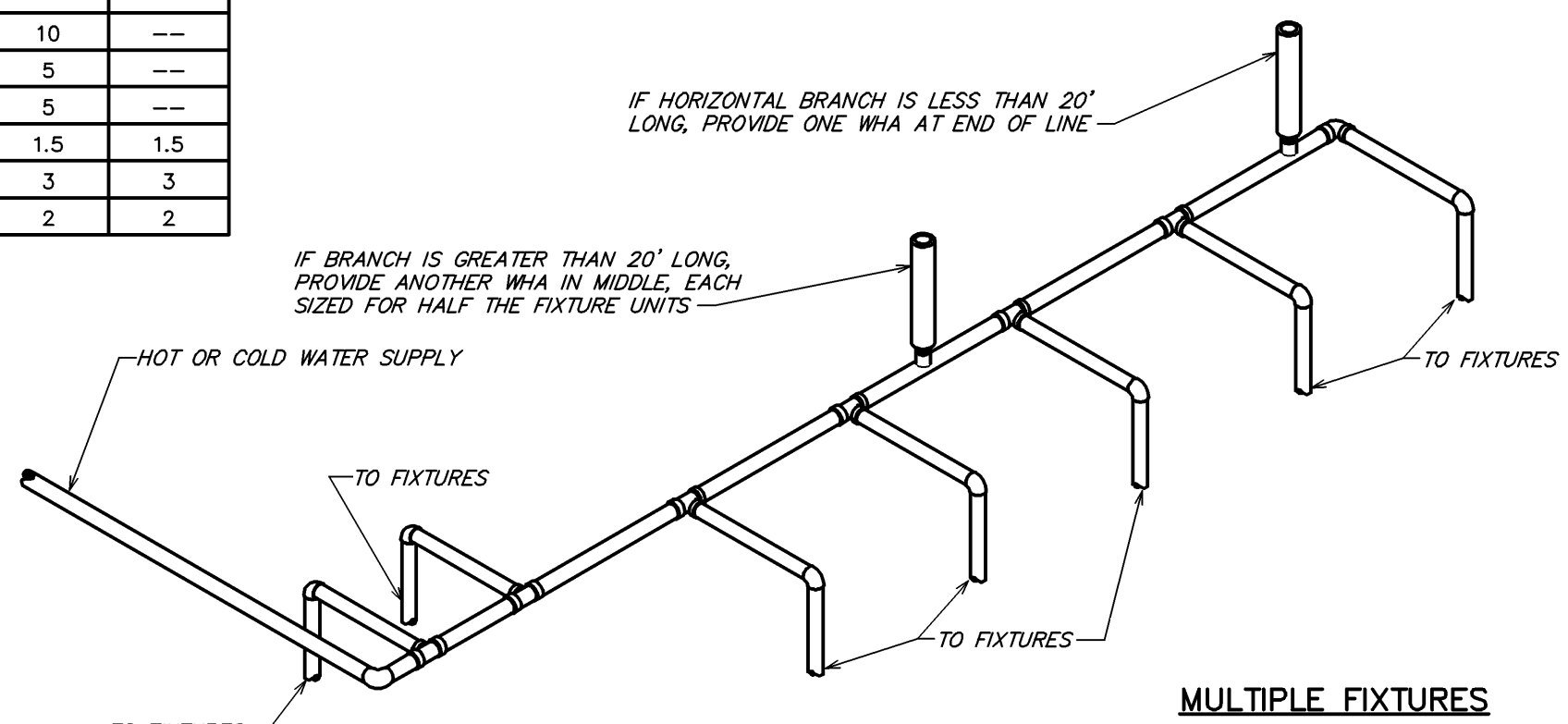
3 PIPE INSULATION DETAIL
NOT TO SCALE

FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	---
TANK WATER CLOSET	5	---
URINAL	5	---
LAVATORY/SINK	1.5	1.5
JANITOR'S SINK	3	3
SHOWER/BATHTUB	2	2



SINGLE FIXTURE

PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154
F	2"	155-330



1 WATER HAMMER ARRESTERS
NOT TO SCALE

PLUMBING CONTRACTOR SHALL PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.

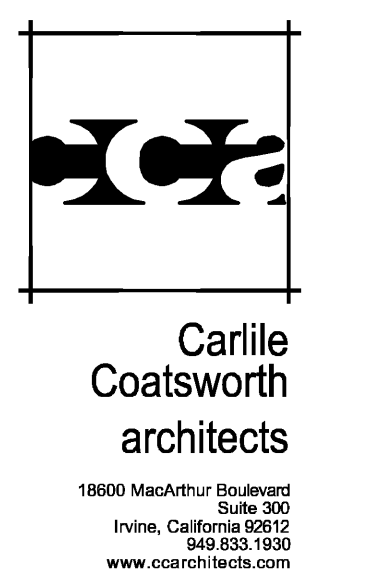
Mark	DESCRIPTION	FINAL CONNECTIONS				MANUFACTURER MODEL NUMBER
		HW	CW	V	W	
LAV-1	LAVATORIES SWISS MADISON ST. TROPEZ WALL MOUNT SM-WS320 GLAZED CERAMIC, 1-3/4" FRAM HOLE, 1-3/8" FAUCET HOLE, 17-1/2" L X 13" W X 4-5/16" H. WHITE.	1/2"	1/2"	1 1/2"	2"	SWISS MADISON: SM-WS320
	LAVATORY FAUCET KINNESSIS TOUCHLESS TECHNOLOGY, SINGLE-HOLE, BELOW COUNTER VALVING, METERED, SENSOR, AC-POWERED, 0.5 GPM, 5-1/8" SPOUT REACH, ADA COMPLIANT, MATTE BLACK.					KOHLER: OBL0 K-1036B76-SBNA-BL
	LAVATORY SUPPLIES INSIGHT AC POWERED DECK AND WALL MOUNT TOUCHLESS POWER SUPPL. ENERGY STAR EFFICIENCY.					KOHLER: K-13480-A
	LAVATORY WASTE POP UP DRAIN WITH OVERFLOW					SWISS MADISON: SM-PD25
WC-1	WATER CLOSETS FLUSH TANK, FLOOR MOUNTED, VITREOUS CHINA, ELONGATED BOWL, CLASSIC COMFORT HEIGHT, 1.28 GPF, W/ KOHLER LUSTRA ELONGAED FROM SEAT, SELF-SUSTAINING HINGES.	-	1/2"	2"	3"	KOHLER: KINGSTON K-25077
	WATER CLOSET SEAT COMMERCIAL DUTY, EXTRA HEAVY WEIGHT, INJECTION MOLDED SOLID PLASTIC, LARGE MOLDED BUMPERS, STAINLESS STEEL POSTS, SELF-SUSTAINING, CONCEALED STAINLESS STEEL CHECK HINGE HOLDING SEAT IN ANY RAISED POSITION UP TO 11 DEG. BEYOND VERTICAL, OPEN FRONT, LESS COVER, COLOR: WHITE					KOHLER: LUSTRA K-4650
	SUPPLIES CHROME PLATED LEVER TYPE 1/4 TURN BALL ANGLE STOP VALVE					

MARK	LOCATION	OPERATING WEIGHT (LBS)	SIZE (IN)		STORAGE CAPACITY (GALLONS)	RECOVERY (GPH @ 100 DEG F RISE)	ELECTRICAL			MANUFACTURER	MODEL	REMARKS
			DIA	H			KW	VOLT	PH			
HWH-1	SHELF	572	26.25"	32	47	13.7	3	277	1	RHEEM	ELDS52-TB	1

REMARKS:
1. SET WATER HEATER STORAGE TEMPERATURES TO 120F.

MARK	LOCATION	SERVES	MINIMUM ACCEPTANCE	WORKING PRESS (PSI)	SIZE (APPROX)	MANUFACTURER	MODEL	REMARKS
ET-1	MOP SINK	DOM. HW	0.9	150	8"Øx12 1/2"	AMTROL		MODEL ST-5

MARK	LOCATION	SERVICE	FLOW RATE (GPM)	HEAD (FT)	ELECTRICAL DATA				RPM	TYPE	MANUFACTURER	MODEL	REMARKS
					HP	VOLT	PH	CYC.					
P-1	HWH-1	DOM. HW	1	10.5	1/6	115	1	60	2950	INLINE	BELL & GOSSETT	NBF-25	



PROJECT NO. 24068
DATE: 05/09/2024
DRAWN BY: SEI
SCALE: AS NOTED
FILE:
GROSS AREA 6,719 S.F.

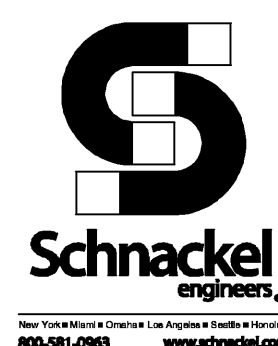
REVISIONS:

City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

SHEET TITLE:
PLUMBING SCHEDULE AND DETAILS

SHOE PALACE
SOUTH HILL MALL
SPACE 410 & 420
3500 S MERIDIAN
PUYALLUP, WA 98373

PROJ20240836



P3.0

PART 1 – GENERAL

1. SUMMARY

- A. Provide complete, approved sprinkler system as specified, including, but not limited to, the following:
 1. Sprinkler service connections to existing piping terminating above floor in sprinkler valve rooms with all required valves, devices, connections, etc.
 2. Sprinkler valves, hangers, connections, test connections, drain connections, alarm check valves, flow switches, etc.
 3. Complete interior sprinkler system of the wet type as indicated.
 4. Include coverage for all canopies, awnings, vestibule overhangs, etc. as required by NFPA 13.
 5. Identification, diagrams, and signs.
 6. Cutting and patching.
 7. All other requirements of a complete sprinkler installation.
 8. Furnish all permits of a special roof decking. Suspend from structural steel only.

2. IN GENERAL

- A. The naming of manufacturers in the Specifications shall not be construed as eliminating the materials, products, or services of other manufacturers and suppliers having approved equivalent items.
- B. The substitutions of materials or products other than those named in the Specifications are subject to prior approval of the Engineer granted in writing.
- C. The Subcontractor shall furnish and install wet pipe automatic sprinkler systems of first quality in every and all respects, together with the necessary pipe, fittings, hangers and other apparatus as hereinafter enumerated and/or indicated.
- D. All sprinkler piping must be substantially supported from building structure and only approved type hangers shall be used. Sprinkler lines under ducts shall not be supported from ductwork or roof deck, but shall be supported from building structure with trapeze hangers where necessary. No fire sprinkler piping may be attached to Epic Deck or any metal roof decking. Suspend from structural steel only.
- E. Sprinkler equipment shall be completed and placed in service during non-attended hours in all areas. Every effort shall be made to provide sprinkler protection before combustible contents are moved into the building. Sprinkler Subcontractor shall plan his work with Owner's representative to determine which system will be required first.
- F. All work specified shall be done in a first class and workmanlike manner, complete in every respect and when completed shall conform to the present standards of the National Fire Protection Association Pamphlet #13 and to all requirements of the inspection agency of the owner's insurance company, to all local and state inspection agencies and to the requirements of the local utility. Pressure tests to be 200 psi or as required by inspection authorities, but not less than 200 psi.
- G. The Sprinkler Subcontractor shall obtain the approval of local officials on system design and completed installation.

3. DEFINITIONS

- A. Pipe sizes used in this Specification are Nominal Pipe size (NPS).
- B. Other definitions for fire protection systems are listed in NFPA Standards 13, 14, and 24.
- C. Working Plans as used in this section means those documents (including drawings and calculations) prepared pursuant to the requirements contained in NFPA 13 for obtaining approval of the authority having jurisdiction.

4. SYSTEM DESCRIPTION

- A. Fire protection system is a "Wet-Pipe" system employing automatic sprinklers attached to a piping system containing water and connected to a water supply so that water discharges immediately from sprinklers opened by fire. Wet standpipes are to be provided as required by local building codes.

5. SUBMITTALS

- A. Product Data for each type sprinkler head, valve, piping specialty, fire protection specialty, fire department connection and standpipe cabinet specified.
- B. Shop Drawings prepared in accordance with NFPA 13 identified as "Working Plans," including hydraulic calculations that have been approved by the authority having jurisdiction.
 1. The Subcontractor shall before commencing installation of his work obtain all necessary insurance or inspection agency approvals and then send one set and one copy of approved drawings to the Architect for his review.
 2. Shop drawings must be legible copies of clear, sharp tracings, prepared at scale of 1/8" = 1'-0" and must show along with piping, sprinklers, ductwork, etc., construction and occupancy of each area, including ceiling and roof heights.
 3. Calculations shall be based on NFPA requirements for mercantile occupancy.
 4. Shop drawings shall be prepared using for reference all of the architectural, structural, mechanical, plumbing, and electrical drawings.
 5. The placement of sprinklers and the routing of all exposed piping are subject to the review and approval of both the Engineer and the Architect for proper coordination and aesthetics. Pipe routing in exposed areas may require rerouting for architectural reasons, at no additional cost to the Owner.
- C. Maintenance Data for each type sprinkler head, valve, piping specialty, fire protection specialty, fire department connection, hose and rack, and hose cabinet specified, for inclusion in operating and maintenance manual specified in Division 1 and Division-15 Section "Basic mechanical Requirements."
- D. Welders, qualification certificates.
- E. Test Reports and Certificates including "Contractor's Material & Test Certificate for Above-ground Piping" and "Contractor's Material & Test Certificate for Underground Piping" as described in NFPA 13.

6. QUALITY ASSURANCE

- A. Subcontractor's Qualifications: Installation and alterations of fire protection piping, equipment, specialties, and accessories, and repair and servicing of equipment shall be performed only by a qualified installer employed by the subcontractor. The term qualified means experienced in such work (experienced shall mean having a minimum of 5 previous projects similar in size and scope to this project), familiar with all precautions required, and has complied with all the requirements of the authority having jurisdiction. Upon request, submit evidence of such qualifications to the Architect. Refer to Division-1 Section: "Definitions and Standards", for definitions for "Installers."
- B. Qualifications for Welding Processes and Operators: Comply with the requirements of AWS D10.9, Specifications for Qualifications of Welding Procedures and Welders for Piping and Tubing, Level AR-3."
- C. Regulatory Requirements: Comply with the requirements of the following codes:
 1. NFPA 13 – Standard for the Installation of Sprinkler Systems.
 2. UL Compliance: Fire protection system materials and components shall be Underwriter's Laboratories listed and labeled, and approved for the application anticipated.
 3. Current Uniform Building Code and Uniform Fire Code as they apply to covered mall buildings.

7. SEQUENCING AND SCHEDULING

- A. Schedule rough-in installations with installations of other building components as directed by the Construction Manager.

8. EXTRA MATERIALS

- A. Valve Wrenches: Furnish to Owner, 3 valve wrenches for each type of sprinkler head installed.
- B. Sprinkler Heads and Cabinets: Furnish 12 extra sprinkler heads of each style included in the project. Furnish each style with its own sprinkler head cabinet and special wrenches as specified in this Section.

PART 2 – PRODUCTS

1. MANUFACTURERS

- A. Manufacturer: Subject to compliance with requirements, provide fire protection system components from one of the following:
 1. Grooved Mechanical Couplings:
 - a. Stockham
 - b. Victaulic Company of America
 2. Sprinkler Heads:
 - a. Automatic Sprinkler Corp of America.
 - b. Tyco
 - c. Reliable Automatic sprinkler Co., Inc.
 - d. Star Sprinkler Corp.
 - e. Viking Corp.

2. PIPE AND TUBING MATERIALS

- A. General: Refer to Part 3 Article "PIPE APPLICATIONS" for identification of systems where the below specified pipe and fitting materials are used.
- B. Steel Pipe (2 inches and smaller): ASTM A 120, Schedule 40, E.R.W., black steel pipe, plain ends.
- C. Steel Pipe (2–1/2 inches and larger): ASTM A53 or AB5, Schedule 10, E.R.W., black steel pipe, plain or roll grooved ends.
- D. The use of threaded "thinwall" pipe will not be acceptable.
- E. The use of schedule 40 black steel pipe 2" and smaller with roll grooved connections on gridded systems is acceptable.

3. FITTINGS

- A. Cast-Iron Threaded Fittings: ANSI B16.4, Class 125, standard pattern, for threaded joints. Threads shall conform to ANSI B1.20.1.
- B. Malleable-Iron Threaded Fittings: ANSI B16.3, Class 300, standard pattern, for threaded joints. Threads shall conform to ANSI B1.20.1.
- C. Steel Fittings: ASTM A 234, seamless or welded, for welded joints.
- D. Grooved Mechanical Fittings: ASTM A 536, Grade 65–45–12 ductile iron; ASTM A 47 Grade 32510 malleable iron; or ASTM A53, Type F or Types E or S, Grade B fabricated steel fittings with grooves or shoulders designed to accept grooved end couplings.
- E. Grooved Mechanical Couplings: Consist of ductile or malleable iron housing, a synthetic rubber gasket of a central cavity pressure-responsive design; with nuts, bolts, locking pin, locking toggle, or lugs to secure roll-grooved pipe and fittings.
- F. Cast-Iron Threaded Flanges: ANSI B16.1, Class 125; raised ground face, bolt holes spot faced.

4. JOINING MATERIALS

- A. Welding Materials: Comply, with section II, Part C, ASME Boiler and Pressure Vessel Code for welding material appropriate for the wall thickness and chemical analysis of the pipe being welded.
 1. Brazing Filler Metals: AWS A5.8, Classification BAgl (silver).
 2. Solder Filler Metals: ASTM B 32, 95–5 Tin–Antimony.
- B. Gasket Materials: Thickness, material, and type suitable for fluid to be handled, and design temperatures and pressures.

5. AUTOMATIC SPRINKLERS

- A. Sprinkler Heads: Fusible link type or glass bulb type, and style as required by the application. Unless otherwise indicated, provide heads with nominal 1/2–inch discharge orifice, for "Ordinary" temperature range.
- B. Sprinkler Head Finishes: Provide heads with the following finishes:
 1. Sprinklers for the proposed equipment shall be of the approved bronze and chrome upright and pendant; bronze and chrome flush and semi-recessed; and lead coated upright type, and shall be distributed throughout the building as required.
 2. Sprinklers in suspended acoustical tile and gypsum drywall ceilings in service/exit corridors or office areas shall be approved semi-recessed pendant type, chrome plated with escutcheon of 1" maximum depth with supply piping concealed above ceiling.
 3. Sprinklers within existing spaces with fire sprinkler coverage shall match existing sprinklers in color, K factor, temperature, and style.

PART 3 – EXECUTION

1. EXAMINATION

- A. Examine rough in for sprinkler system piping and equipment to verify actual locations of piping and equipment prior to installation.
- B. Examine walls for suitable conditions where cabinets are to be installed.
- C. Do not proceed until unsatisfactory conditions have been corrected.

2. PIPE APPLICATIONS

- A. Use most economical combination of the following materials meeting all requirements. Alternate piping materials may be submitted for approval, subject to prior written approval by the Local Fire Marshal.
 1. Install Schedule 40 steel pipe with threaded joints and fittings for 2 inch and smaller.
 2. Install Schedule 10 steel pipe with roll-grooved ends and grooved mechanical couplings for 2 1/2 inch and larger.

3. PIPING INSTALLATIONS

- A. Locations and Arrangements: Drawings (plans, schematics, and diagrams) indicate the general location and arrangement of piping systems. So far as practical, install piping as indicated.
 1. The Subcontractor shall make no changes in installation from layout as shown on approved working drawings which may be requested by any Inspection Bureau or Insurance Association unless such change is specifically approved by the Engineer. Any changes made other than as above stated are at the Subcontractor's own expense and responsibility.
- B. Install sprinkler piping to provide for complete system drainage in accordance with NFPA 13.
- C. Use approved fittings to make all changes in direction, branch takeoffs from mains, and reductions in pipe sizes.
- D. Install unions in pipes 2 inch and smaller, adjacent to each valve. Unions are not required on flanged devices or in piping installations using grooved mechanical couplings.
- E. Hangers and Supports: Comply with the requirements of NFPA 13 and NFPA 14. Hanger and support spacing and locations for piping joined with grooved mechanical couplings shall be in accordance with the grooved mechanical coupling manufacturer's written instructions, for rigid systems. Provide protection from damage where subject to earthquake in accordance with NFPA 13.
- F. Install pressure gage on the riser or feed main at or near each test connection. Provide gage with a connection not less than 1/4 inch and having a soft metal seated globe valve, arranged for draining pipe between gage and valve. Install gages to permit removal, and where they will not be subject to freezing.

4. PIPE JOINT CONSTRUCTION

- A. Welded Joints: AWS D10.9, Level AR-3.
- B. Threaded Joints: conform to ANSI B1.20.1, tapered pipe threads for field cut threads. Join pipe, fittings, and valves as follows:
 1. Note the internal length of threads in fittings or valve ends, and proximity of internal seat or wall, to determine how far pipe should be threaded into joint.
 2. Align threads at point of assembly.
 3. Apply appropriate tape or thread compound to the external pipe threads.
 4. Assemble joint to appropriate thread depth. When using a wrench on valves place the wrench on the valve end into which the pipe is being threaded.
 5. Damaged Threads: Do not use pipe with threads that are corroded or damaged. If a weld opens during cutting or threading operations, that portion of pipe shall not be used.

- C. Mechanical Grooved Joints: Cut or roll grooves on pipe ends dimensionally compatible with the couplings.

- D. End Treatment: After cutting pipe lengths, remove burrs and fins from pipe ends.

5. SPRINKLER HEAD INSTALLATIONS

- A. Use proper tools to prevent damage during installations.

6. FIELD QUALITY CONTROL

- A. Flush, test, and inspect sprinkler piping systems in accordance with NFPA 13 requirements.
- B. Flush, test, and inspect standpipe systems in accordance with NFPA 14 requirements.
- C. Replace piping system components, which do not pass the test procedures, specified, and retest repaired portion of the system.

7. FLUSHING CONNECTIONS

- A. Provide flushing connections in cross-mains as specified in NFPA 13, latest edition.

8. PIPING THROUGH WALLS AND FLOORS

- A. Sleeves shall be set in place for all pipes passing through floors and walls.
- B. In the event Sprinkler Subcontractor fails to set sleeves for passage of piping through floors and walls, he shall pay the Construction Manager to cut and install them.
- C. All hangers and hanger components shall be approved type.

9. FREIGHT & HAULING

- A. Deliver materials to job site and unload and stack in location designated by the owner's representative.

10. LEAK DAMAGE

- A. This Subcontract shall be responsible during the installation and testing periods of the sprinkler system for any damage to the work of others, to the building, its contents, etc., caused by leaks in any equipment, by unplugged or disconnected pipes, fittings, etc. or by overflow, and shall pay for necessary replacements or repair to work of others, building, store fixtures, or merchandise damaged by such leakage.

11. GUARANTEE

- A. At the completion of the work under this sprinkler contractor, this Subcontractor shall furnish, in writing, to the owner, a guarantee stating that all equipment, materials and work performed are in full accordance with the Plans and Specifications.
 - B. This Subcontractor shall also furnish to the owner a written guarantee (in triplicate) that all equipment, materials and work performed under this contract, and any subsequent change orders thereto, are fully guaranteed for one year from date of final acceptance, and that any equipment, materials or workmanship which may prove defective within that time will be replaced at no cost to the owner.
- 12. MORE OR LESS SPRINKLERS**
- A. The Sprinkler Subcontractor shall state price in the bid for more or less sprinklers than the total number of sprinkler heads as shown on the working drawings. This price shall include all necessary heads, piping, fittings, and labor per head and shall state price for installation of each type of sprinkler used job.

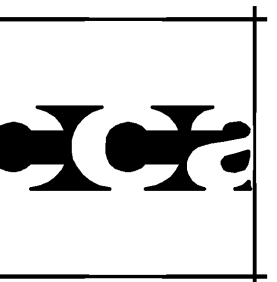
13. ACCEPTANCE

- A. Before offering system for acceptance, the Subcontractor shall furnish written proof that it is entirely satisfactory to the Inspection Agency, governmental bodies having jurisdiction and the local water utility.

14. CUTTING & PATCHING

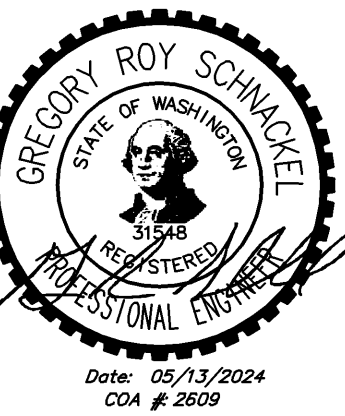
- A. Chases, openings, recesses, etc. in new construction shall be provided where so indicated by the Subcontractors in construction at the locations involved. Subcontractors shall furnish information as to size, location, etc. and shall provide and set in place all boxes, sleeves, inserts, forms, etc.
 - B. If he fails to provide the required data in time for openings to be left, or if he fails to set boxes, sleeves, inserts, forms, etc., Construction manager shall do required cutting.
 - C. Openings shall be accurately located, neatly cut and no larger than necessary.
 - D. The Subcontractor shall do rebuilding, patching, refinishing and painting required to restore construction to original condition before cutting, as approved by the Architect, using skilled craftsmen.
- 15. INSPECTOR'S TESTING**
- A. Inspector's test connections, consisting of 1" piping, 1" Globe valve, and 1/2" special discharge nozzle, shall be provided and connected to the systems at required points. The subcontractor to consult with Construction Manager's superintendent on the job to determine exact locations of inspector's test connections and locations of discharge piping. Piping downstream of test valves shall be galvanized.
- 16. SUBSTITUTIONS**
- A. If the Subcontractor makes any substitutions of equipment or materials from that specified he shall be responsible for any required changes in drawings and responsible for any changes and cost caused by changes to other contracts involved.

END OF SECTION



**Carille
Coatsworth
architects**

18000 MacArthur Boulevard
Suite 300
Irvine, California 92612
949.833.1930
www.carillecoatsworth.com



PROJECT NO.	24068
DATE	05/09/2024
DRAWN BY	SEI
SCALE	AS NOTED
FILE	
GROSS AREA	6,719 S.F.

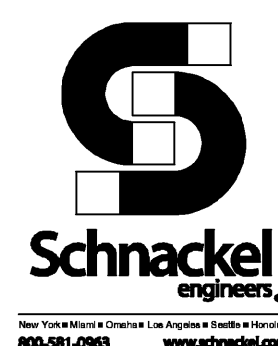
REVISIONS:

City of Puyallup	
Development & Permitting Services	
ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

**SHEET TITLE:
FIRE
SPECIFICATIONS**

SHOE PALACE
SOUTH HILL MALL
SPACE 410 & 420
3500 S MERIDIAN
PUYALLUP, WA 98373

PROJ20240836



P4.0

PART 1 GENERAL
1.01 SUMMARY

A. This section supplements all sections of the Specifications for this Division and shall apply to all phases of work hereinafter specified, shown on the Contract Documents, or required to provide a complete installation of approved plumbing systems.

B. All drawings and specifications, including drawings and specifications related to other divisions, apply to the work. Where conflicts arise between documents, the more stringent requirement shall apply, subject to the interpretation of the Engineer.

C. Furnish all labor, material, services, and skilled supervision necessary for the construction, erection, installation, connections, testing, and adjustment of all materials and piping as specified herein, or shown or noted on the Drawings, and its delivery to the Owner, complete in all respects and ready for use.

D. Products furnished but not installed under this section:
1. Where plans indicate fixtures or equipment to be furnished by this Contractor for installation by other Contractors, this Contractor shall furnish all such equipment, complete in all respects and ready for installation.

2. Drawings, instructions, and manuals supplied with equipment furnished under this Division, but installed under other Divisions shall be carefully preserved and turned over to the Installing Contractor.
E. Products installed but not furnished under this section:

1. Where plans indicate fixtures or equipment will be furnished by others, this Contractor shall provide all rough-in and supplies and shall connect such equipment to the plumbing systems.
2. Drawings, instructions, and manuals supplied with equipment furnished under separate Divisions but installed under this Division shall be carefully preserved and turned over to the architect.

1.02 DEFINITIONS

A. The following definitions apply throughout the drawings and specifications associated with the work performed under this Division:
1. Authority Having Jurisdiction: All regulatory agencies, including but not limited to, plans examiners, fire marshals, inspectors, insurance carriers, and utility companies.
2. Concealed: Hidden from sight in chases, furred spaces, shafts, hung ceilings, embedded in construction, in crawl spaces, or underground.
3. Conduit: Conduit or tubing and all required fittings, pull boxes, hangers, and other supports and accessories related to such.
4. Code: All applicable codes, including but not limited to the administrative code, building code, electrical code, energy conservation code, existing building code, fire code, fuel gas code, mechanical code, plumbing code, and residential code.
5. Code, Administrative: The administrative code, including all local amendments and reference standards, adopted and enforced by the Authority Having Jurisdiction.
6. Code, Building: The administrative code, including all local amendments and reference standards, adopted and enforced by the Authority Having Jurisdiction.
7. Code, Electrical: The electrical code, including all local amendments and reference standards, adopted and enforced by the Authority Having Jurisdiction.
8. Code, Energy Conservation Code: The energy conservation code, including all local amendments and reference standards, adopted and enforced by the Authority Having Jurisdiction.
9. Code, Existing Building: The existing building code, including all local amendments and reference standards, adopted and enforced by the Authority Having Jurisdiction.
10. Code, Fire: The fire code, including all local amendments and reference standards, adopted and enforced by the Authority Having Jurisdiction.
11. Code, Fuel Gas: The fuel gas code, including all local amendments and reference standards, adopted and enforced by the Authority Having Jurisdiction.
12. Code, Mechanical: The mechanical code, including all local amendments and reference standards, adopted and enforced by the Authority Having Jurisdiction.
13. Code, Plumbing: The plumbing code, including all local amendments and reference standards, adopted and enforced by the Authority Having Jurisdiction.
14. Code, Residential: The residential code, including all local amendments and reference standards, adopted and enforced by the Authority Having Jurisdiction.
15. Connect: To bring service to the equipment and make final attachment including necessary switches, outlets, boxes, terminations, etc.
16. Contract Documents: All drawings, specifications, specified reference standards, applicable codes, manufacturer's installation instructions, and executed legal documents related to the project.
17. Contractor: The contractor(s) or subcontractor(s) responsible for performing the work associated with Divisions 26, 27, and 28, and ultimately the General Contractor.
18. Drawings: All plans, details, equipment schedules, diagrams, sketches, etc. issued for the construction of the work.
19. Exposed: Not concealed.
20. Furnish: To supply and deliver, unload, and inspect for damage.
21. Install: To unbox, assemble, erect, apply, place, finish, cure, protect, clean, connect, and place into operation into the work.
22. Owner: The entity, including authorized representatives, to which the work is being provided.
23. Provide: To furnish and install.
24. Work: The construction and services, including all labor, materials, and equipment, required by the contract documents to fulfill the Contractor's obligations. The work may constitute the whole or a part of the project.

1.03 CODES AND STANDARDS

A. Perform work in accordance with code requirements.
B. Perform work in accordance with:
1. Occupational Safety and Health Administration (OSHA) Regulations.
2. Americans with Disabilities Act (ADA).
3. The Authority Having Jurisdiction (AHJ).
4. Landlord requirements including Tenant Criteria Manuals and Lease Exhibits.
5. Utility company requirements. Make all arrangements with the utility companies for proper coordination of the work.
C. All Referenced Standards identified in the specifications apply to the work as if they were incorporated into the specifications in their entirety. It shall not be necessary to specifically reference one of these Referenced Standards for the requirements of the Referenced Standards to apply to the work. If there is a conflict between the requirements of a Referenced Standard and the specifications, it is the responsibility of this Contractor to notify the Engineer of the discrepancy and obtain direction as to which standard applies prior to proceeding.
D. Landlord, and utility company requirements supersede any requirements of the contract documents.
E. The contract documents take precedence where the contract documents exceed code, utility, or referenced standards requirements.

1.04 PERMITS AND FEES

A. Permits, licenses, fees, inspections and arrangements required for the work under this Contract shall be obtained by the Contractor at his expense, unless otherwise indicated.
B. All fees and scheduling associated with obtaining an accurate water flow test shall be at the Contractor's expense.

1.05 PREPARATION

A. The Contractor is responsible to obtain, fully understand, and coordinate the work with the complete set of Contract Documents. Any required corrections, including all associated costs, arising from issues caused by the Contractor's failure to understand and/or coordinate the work with the complete set of Contract Documents are the Contractor's sole responsibility.
B. Work under this section is diagnostic unless indicated otherwise and is intended to convey the scope of work and indicate the general arrangement of piping, equipment, and accessories. Follow these drawings in laying out the work and verify spaces for the installation of these materials and equipment. Where a question exists as to the exact intended location of pipe, sprinklers, or equipment, obtain instructions from the Architect before proceeding with the work. Notify the Architect/Engineer for resolution if a discrepancy in the Contractor's failure to understand and/or coordinate the work with the complete set of Contract Documents are the Contractor's sole responsibility.
C. The Contractor shall be responsible for the resolution of any discrepancies in the Contractor's failure to understand and/or coordinate the work with the complete set of Contract Documents are the Contractor's sole responsibility. Failure of the Contractor to notify the Architect/Engineer of discrepancies shall result in the resolution becoming the Contractor's responsibility and subject to the Architect/Engineer's review and possible rejection. The Contractor shall be responsible for the resolution of any discrepancies in the Contractor's failure to understand and/or coordinate the work with the complete set of Contract Documents are the Contractor's sole responsibility. As such, the Contractor is responsible to:
1. Obtain and review shop drawings, product data, manufacturer's wiring diagrams, and manufacturer's instructions for equipment furnished under other sections.
2. Determine connection locations and requirements.
3. Sequence rough-in of plumbing connections to coordinate with installation of equipment.
4. Utilize galvanized steel hangers and supports in all wet, damp, and corrosive environments, including all exterior locations.
5. Where crane rental or other erection is required, such costs shall be included in the plumbing contract, unless specific arrangements are made with the General Contractor to cover these costs.
6. Verify that mounting surfaces are ready to receive support and attachment components.
7. Verify that conditions are satisfactory for installation prior to starting work.

1.06 EXISTING CONDITIONS

A. Verify all existing conditions prior to beginning work.
B. Any existing conditions indicated are based on information provided by others and possible limited field verification.
C. Visit the project site, review existing conditions against the contract documents, and verify spaces for the installation of these materials and equipment. Where a question exists as to the exact intended location of pipe, sprinklers, or equipment, obtain instructions from the Architect before proceeding with the work. Notify the Architect/Engineer for resolution if a discrepancy in the Contractor's failure to understand and/or coordinate the work with the complete set of Contract Documents are the Contractor's sole responsibility. Failure of the Contractor to notify the Architect/Engineer of discrepancies shall result in the resolution becoming the Contractor's responsibility and subject to the Architect/Engineer's review and possible rejection. The Contractor shall be responsible for the resolution of any discrepancies in the Contractor's failure to understand and/or coordinate the work with the complete set of Contract Documents are the Contractor's sole responsibility. As such, the Contractor is responsible to:
1. Obtain and review shop drawings, product data, manufacturer's wiring diagrams, and manufacturer's instructions for equipment furnished under other sections.
2. Determine connection locations and requirements.
3. Sequence rough-in of plumbing connections to coordinate with installation of equipment.
4. Utilize galvanized steel hangers and supports in all wet, damp, and corrosive environments, including all exterior locations.
5. Where crane rental or other erection is required, such costs shall be included in the plumbing contract, unless specific arrangements are made with the General Contractor to cover these costs.
6. Verify that mounting surfaces are ready to receive support and attachment components.
7. Verify that conditions are satisfactory for installation prior to starting work.

1.07 SUBMITTALS

A. Furnish the Architect/Engineer product data and/or shop drawings, as specified in the individual specification sections, for review.
B. Only submittals specifically required to be provided for Architect/Engineer review within the individual specification sections will be reviewed by the Engineer.
C. Indicate the corresponding equipment tag on each unique component or piece of equipment.
D. Indicate all proposed catalog numbers.
E. Product data shall consist of manufacturer's standard catalog pages and/or cut-sheets.
F. Submittals shall be concise and to the point, demonstrating the key performance parameters indicated in the contract documents, major dimensions, and identifying the materials used to manufacture the products. Submittals shall directly address the specifications and contract documents and shall include the following:
1. Superfluous information such as non-applicable catalog pages, non-applicable cut sheets, and/or sales brochures. Submittals that are deemed overly voluminous and unnecessary for the requirements of the contract documents will be returned without Engineer review.
2. The Architect/Engineer's review shall not relieve the Contractor from responsibility for errors within the submittals.
3. If a submittal is not approved by the Architect/Engineer, the Contractor shall advise the Architect/Engineer of the deviation in writing accompanying the submittal, including the reason for the deviation.
4. Submittals are reviewed only for general compliance with the Contract Documents. Dimensions, quantities and details are not checked during submittal review. Review of the submittals does not relieve the Contractor of the responsibility for providing all materials, equipment and accessories necessary for a complete and operational system meeting the requirements of the project and the intent of the Contract Documents. The responsibility for coordination of substituted materials and equipment lies solely with the substituting Contractor.
5. Manufacturer Qualifications: Company specializing in manufacturing the Products specified herein with minimum five years' experience.
6. Installer Qualifications: Company specializing in performing the work of this section with minimum five years' experience. Approved by manufacturer.
7. All Products:
a. Be listed and classified by Underwriters Laboratories Inc. as suitable for the purpose specified and indicated.
b. Be listed and classified by the local Department of Buildings and furnished with an acceptance label, where applicable.
c. Be listed and classified by the Landlord's and/or Owner's insurance carrier, where applicable.
8. All equipment and components shall be free of all rust/corrosion or any visible damage. All items not complying with this requirement shall be replaced at no additional cost to the Owner.
9. Equipment performance and accessories shall be as scheduled on the Drawings and specifications. Equipment performance and accessories shall be included in the Contract Documents. Equipment and accessories specified in either location shall be included in the Contract Documents. Provide all necessary accessories and connections as required for a complete and operational system including, but not limited to, components reasonably inferred to be necessary although such components may or may not be specifically indicated on the Drawings or within the Specifications.
10. F. Fill Composition Test Reports: Results of laboratory tests on actual materials used; Composition Density Test Reports.
1.09 DELIVERIES AND HANDLING:
A. Receive, inspect, handle, and store products in accordance with manufacturer's instructions and specifications.
B. Provide temporary and caps and closures on piping and fittings. Maintain in place until installation.
C. Protect equipment on site from weather and moisture by maintaining factory covers and suitable weatherproof covering. For extended outdoor storage, remove covers from equipment and store separately.
1.10 WARRANTIES AND GUARANTEES:
A. Provide a complete parts and labor warranty and guarantee on all systems installed under this section.
B. Additional warranty and guarantee in excess of this requirement are specified within the individual sections of Division 22.
PART 2 PRODUCTS
2.01 MANUFACTURERS:
A. Manufacturers listed are listed to set minimum standards for quality, design, and performance. The products of other manufacturers may be submitted, at the Contractor's expense, for review and approval. The Contractor shall provide the products of other manufacturers which meet or exceed all requirements of the Contract Documents. The Contractor accepts all responsibility for costs and coordination of such substitutions with all other contractors and subcontractors.
2.02 SOURCE LIMITATIONS:
A. Provide a complete parts and labor warranty and guarantee on all systems installed under this section.
B. Additional warranty and guarantee in excess of this requirement are specified within the individual sections of Division 22.
PART 3 EXECUTION
3.01 INSTALLATION:
A. Work shall be in strict accordance with the contract documents. Verify all dimensions shown and establish all elevations and detailed dimensions not shown.
B. Promptly report to the Architect any delay or difficulties encountered in the installation of the work, which might prevent prompt and proper installation, or make it unsuitable to connect with or receive the work of others. Failure to so report shall constitute an acceptance of the work of other trades as being fit and proper for the execution of this work.
C. Plan, lay out, and coordinate the work with all other trades well in advance so that it proceeds with a minimum of interference to work that has not been completed and work that is in progress.
D. Inform all trades of openings required for the work and provide all special frames, sleeves, and anchor bolts required.
E. The plumbing system layout may be in advance of need.
F. Finish Grade Elevations: 4 inches (100 mm) below finish grade elevations indicated on drawings, unless otherwise indicated.
G. Submittals for Architect/Engineer review are not required.
H. Provide the following to the Owner upon project closeout:
1. Fill Composition Test Reports: Results of laboratory tests on actual materials used.
2. Composition Density Test Reports.
I. Wherever pipe runs in or above ceilings or walls, the Contractor shall arrange the run of pipe in such a manner that it does not interfere with grilles, diffusers, outlet boxes, underlayment, or other ceiling or wall components.
J. Install systems, materials and equipment to provide for maximum headroom. Maintain access to equipment requiring service when selecting mounting elevations.
K. Interfering piping shall be eliminated, and repair or replacement of equipment components. As such as practical, connect equipment for ease of disconnecting, with minimum of interference with other installations.
L. Verify that survey bench marks and intended elevations for the work are as indicated.
M. Protect plants, lawns, rock outcroppings, existing construction, and other features to remain.
N. Verify that survey bench marks, survey control points, existing structures, fences, sidewalks, paving, and curbs from excavating equipment and vehicular traffic.
O. Equipment shall be installed in accordance with the manufacturer's instructions and specifications. The Contractor shall contract with the factory authorized roofing contractor for this specific roofing system applicable to this Project. The use of an unauthorized roofing contractor may result in removal and replacement of the penetration systems at this Contractor's expense.
P. All piping shall be installed in accordance with the manufacturer's instructions and specifications. The Contractor shall be responsible for the resolution of any discrepancies in the Contractor's failure to understand and/or coordinate the work with the complete set of Contract Documents are the Contractor's sole responsibility. Failure of the Contractor to notify the Architect/Engineer of discrepancies shall result in the resolution becoming the Contractor's responsibility and subject to the Architect/Engineer's review and possible rejection. The Contractor shall be responsible for the resolution of any discrepancies in the Contractor's failure to understand and/or coordinate the work with the complete set of Contract Documents are the Contractor's sole responsibility. As such, the Contractor is responsible to:
1. Obtain and review shop drawings, product data, manufacturer's wiring diagrams, and manufacturer's instructions for equipment furnished under other sections.
2. Determine connection locations and requirements.
3. Sequence rough-in of plumbing connections to coordinate with installation of equipment.
4. Utilize galvanized steel hangers and supports in all wet, damp, and corrosive environments, including all exterior locations.
5. Where crane rental or other erection is required, such costs shall be included in the plumbing contract, unless specific arrangements are made with the General Contractor to cover these costs.
6. Verify that mounting surfaces are ready to receive support and attachment components.
7. Verify that conditions are satisfactory for installation prior to starting work.
3.02 COORDINATION:
A. Prepare coordination drawings to a scale of 1/4"=1'-0" or larger; detailing major components of the plumbing system, including equipment, and building components. Indicate locations where space is limited for installation and access and where sequencing and coordination of installations are required to maintain the intended flow of the work, including (but not necessarily limited to) the following:
1. Indicate the proposed locations of conduits, equipment, and materials. Include the following:
a. Clearances required for maintaining Code required working space.
b. Equipment connections and support details.
c. Exterior wall and foundation penetrations.
d. Fire-rated wall and floor penetrations and floor penetrations.
e. Sizes and location of required concrete pads and bases.
f. Indicate scheduling, sequencing, movement, and positioning of large equipment into the building during construction.
g. Prepare floor plans, elevations, and details to indicate penetrations in floors, walls, and ceilings and their relationship to other penetrations and installations.
2. Coordination drawings are for use between the different construction trades and will not be reviewed by the Architect/Engineer.

3.03 INTERFACES

A. Install all pipe, equipment, and accessories to preserve fire resistance rating of partitions and other elements, using materials and methods specified.
3.04 FIELD QUALITY CONTROL:
A. Provide tests as necessary to establish the adequacy, quality, safety, completed status, and suitable operation of each system.
B. Install all equipment, devices, pipe, and materials securely and in a neat and workmanlike manner in accordance with all applicable standards and codes.
C. Install all equipment, pipe, and materials plumb and level and align and adjust for satisfactory operation.
D. Install all equipment, pipe, and materials in accordance with the manufacturer's instructions and recommendations.
E. Inspect all equipment, pipe, and materials for defects.
3.05 ERECTION:
A. Rigging:
1. The Plumbing Contractor shall arrange for all labor and equipment required for the proper installation of the plumbing equipment in the locations indicated on the Drawings. Where crane rental or other erection is required, such costs shall be included in the plumbing contract, unless specific arrangements are made with the General Contractor to cover these costs.
B. Supplemental Framing:
1. Provide the design, fabrication, and erection of supplementary structural framing required for attachment of hangers or other devices supporting plumbing equipment. Provide framing members of standard rolled steel shapes, 36 steel. Provide members welded to structural members equal to the specification for the main structural member. Provide "simple beam" type framing with end connections welded or bolted for shear loads. Use cantilevers when detailed or specifically approved by the Architect/Engineer. The Architect/Engineer's approval is required for location of supplementary framing. Use only certified welders. Design framing members for their actual loads, with all allowable stresses specified by AISI, without excessive deflection and with consideration of the Plumbing Contractor, unless specific arrangements are made with the General Contractor to cover these costs.
2. Provide the design, fabrication, and erection of supplementary structural framing required for attachment of hangers or other devices supporting plumbing equipment. Provide framing members of standard rolled steel shapes, 36 steel. Provide members welded to structural members equal to the specification for the main structural member. Provide "simple beam" type framing with end connections welded or bolted for shear loads. Use cantilevers when detailed or specifically approved by the Architect/Engineer. The Architect/Engineer's approval is required for location of supplementary framing. Use only certified welders. Design framing members for their actual loads, with all allowable stresses specified by AISI, without excessive deflection and with consideration of the Plumbing Contractor, unless specific arrangements are made with the General Contractor to cover these costs.
3.06 CUTTING, PATCHING, AND PIERCING:
A. Cutting of openings and installation of sleeves or frames through walls and surfaces shall be done in a neat workmanlike manner. Openings shall be cut only as large as required for the installation; sleeves or frames installed flush with finished surfaces and grouted in place. Surfaces around openings shall be left smooth and finished to match surrounding surface.
B. Obtain written permission from the Architect/Engineer before cutting or piercing structural members. Use craftsmen skilled in their respective trades for cutting, fitting, repointing, patching of plaster, and finishing of materials including carpentry work, metal work, or concrete work required for this work.
C. Do not weaken walls, partitions, or other structural members. Fire and smoke rated floors must be drilled without breaking out around the holes. The Architect/Engineer will determine suitability of patching and/or refinishing requirements.
D. The Plumbing Contractor is responsible for patching of all openings resulting from the installation or removal of plumbing equipment or materials.
E. Provide and maintain temporary partitions or dust barriers adequate to prevent the spread of dust and dirt to adjacent areas.
F. Patch existing finished surfaces and building components using new materials matching existing materials and experienced subcontractors.
G. Fire and Smoke Partition Penetrations: The Contractor shall familiarize himself with all fire rated construction and install his work so as to maintain the integrity of the fire code rating. Maintain rating of fire rated and smoke rated construction, including annual space around conduits. For fire and smoke rated floors, walls and partitions, use UL listed material that maintains fire rated wall and floor integrity.
3.07 CLEANING AND REPAIR:
A. Clean plumbing parts to remove harmful materials.
B. Clean exposed surfaces of all pipe, equipment, and accessories of all dirt, debris, splatter, and other deleterious materials. Follow the manufacturer's recommendations for cleaning as applicable.
C. Repair or replace damaged pipe, equipment, and accessories, as directed by and to the satisfaction of the Architect, where marring or disfigurement has occurred. All pipe, equipment, and accessories shall be new.
3.08 TESTING AND INSPECTION:
A. Upon completion, the entire system shall be tested under operating conditions.
1. All equipment shall be tested under service conditions and proven to operate properly and noiselessly.
2. All additional tests as required throughout this Specification shall be completed with results reported back to the Architect/Engineer for review.
B. Operate all equipment, after installation and connection. Inspect for improper connections and operation and correct deficiencies as required.
C. Inspection:
1. Upon completion of the work, the Contractor shall obtain certificates of inspection and approval from all City and State Authorities Having Jurisdiction.
3.09 PROJECT CLOSEOUT:
A. Project Record Documents:
1. Provide one printed copy and one electronic copy of project record drawings to the Owner.
2. These drawings shall remain at the construction site throughout construction and shall be updated on a daily basis.
3. These drawings shall be available for review by the Architect/Engineer at all times.
4. Include information required in the individual specification sections.
B. Operation and Maintenance Data:
1. Provide one printed copy and one electronic copy of operation and maintenance data to the Owner, including:
a. All submittals required in the individual specification sections.
b. All manufacturers' warranty information.
c. All certificates of compliance with testing or regulatory requirements.
d. All test and inspection reports.
2. Organize all information by specification section.
END OF SECTION

3.03 INTERFACES

A. Cut out soft areas of subgrade not capable of compaction in place. Backfill with general fill.
B. Compact subgrade to density equal to or greater than requirements for subsequent fill material.
C. Under and above backfill, maintain excavations and prevent loose soil from falling into excavation.
3.04 BACKFILLING:
A. Backfill to contours and elevations indicated using unfrozen materials.
B. Fill up to finish grade or slab elevations unless otherwise indicated.
C. Employ a placement method that does not disturb or damage other work.
D. Symmetrical fill to allow maximum time for natural settlement. Do not fill over porous, wet, frozen or spongy subgrade surfaces.
E. Maintain optimum moisture content of fill materials to attain required compaction density.
F. Granular Fill: Place and compact materials in equal continuous layers not exceeding 8 inches (200 mm) compacted depth.
G. Soil Fill: Place and compact material in equal continuous layers not exceeding 8 inches (200 mm) compacted depth.
H. Slope grade away from building minimum 2 inches in 10 ft (50 mm in 3 m), unless noted otherwise. Make gradual grade changes. Blend slope into level areas.
I. Correct areas that are over-excavated.
J. Thrust bearing surfaces: Fill with concrete.
K. Other areas: Use general fill, flush to required elevation, compacted to minimum 95 percent of maximum dry density.
L. Compaction Density Unless Otherwise Specified or Indicated:
1. Under paving, slabs-on-grade, and similar construction: 97 percent of maximum dry density.
2. At other locations: 95 percent of maximum dry density.
M. Reshape and re-compact fills subjected to vehicular traffic.
3.05 BEDDING AND FILL AT SPECIFIC LOCATIONS:
A. Bedding: Provide bedding as specified or indicated.
B. Utility Piping, Conduits, and Duct Bank:
1. Bedding: Use granular fill.
2. Cover with general fill.
3. Fill up to finish grade elevation.
4. Compact in maximum 8 inch (200 mm) lifts to 95 percent of maximum dry density.
C. Over Subdrainage Piping at Foundation Perimeter and Under Slabs:
1. Drainage Fill and geotextile fabric.
2. Obtain written permission from the Architect/Engineer for drainage fill.
3. Fill up to finish grade elevation.
4. Compact to 95 percent of maximum dry density.
3.06 TOLERANCES:
A. Top Surface of General Backfilling: Plus or minus 1 inch (25 mm) from required elevations.
B. Top Surface of Backfilling Under Paved Areas: Plus or minus 1 inch (25 mm) from required elevations.
3.07 FIELD QUALITY CONTROL:
A. Perform compaction density testing on compacted fill in accordance with ASTM D1556, ASTM D2922, or ASTM D3017.
B. Evaluate results in relation to compaction curve determined by testing uncompacted material in accordance with ASTM D 698 ("standard Proctor"), ASTM D 1557 ("modified Proctor") or AASHTO T 180.
C. If tests indicate work does not meet specified requirements, remove, replace and retest.
D. Frequency of Tests: Every two feet.
3.08 CLEANING AND REPAIR:
A. Leave unused materials in a neat, compact stockpile.
B. Remove unused stockpiled materials. Leave area in a clean and neat condition.
C. Leave borrow areas in a clean and neat condition. Grade to prevent standing surface water.
END OF SECTION

3.03 INTERFACES

A. Receive, inspect, handle, and store products in accordance with manufacturer's instructions and specifications.
B. Provide temporary and caps and closures on piping and fittings. Maintain in place until installation.
C. Protect equipment on site from weather and moisture by maintaining factory covers and suitable weatherproof covering. For extended outdoor storage, remove covers from equipment and store separately.
1.09 DELIVERIES AND HANDLING:
A. Receive, inspect, handle, and store products in accordance with manufacturer's instructions and specifications.
B. Provide temporary and caps and closures on piping and fittings. Maintain in place until installation.
C. Protect equipment on site from weather and moisture by maintaining factory covers and suitable weatherproof covering. For extended outdoor storage, remove covers from equipment and store separately.
1.10 WARRANTIES AND GUARANTEES:
A. Provide a complete parts and labor warranty and guarantee on all systems installed under this section.
B. Additional warranty and guarantee in excess of this requirement are specified within the individual sections of Division 22.
PART 2 PRODUCTS
2.01 MANUFACTURERS:
A. Manufacturers listed are listed to set minimum standards for quality, design, and performance. The products of other manufacturers may be submitted, at the Contractor's expense, for review and approval. The Contractor shall provide the products of other manufacturers which meet or exceed all requirements of the Contract Documents. The Contractor accepts all responsibility for costs and coordination of such substitutions with all other contractors and subcontractors.
2.02 SOURCE LIMITATIONS:
A. Provide a complete parts and labor warranty and guarantee on all systems installed under this section.
B. Additional warranty and guarantee in excess of this requirement are specified within the individual sections of Division 22.
PART 3 EXECUTION
3.01 INSTALLATION:
A. Work shall be in strict accordance with the contract documents. Verify all dimensions shown and establish all elevations and detailed dimensions not shown.
B. Promptly report to the Architect any delay or difficulties encountered in the installation of the work, which might prevent prompt and proper installation, or make it unsuitable to connect with or receive the work of others. Failure to so report shall constitute an acceptance of the work of other trades as being fit and proper for the execution of this work.
C. Plan, lay out, and coordinate the work with all other trades well in advance so that it proceeds with a minimum of interference to work that has not been completed and work that is in progress.
D. Inform all trades of openings required for the work and provide all special frames, sleeves, and anchor bolts required.
E. The plumbing system layout may be in advance of need.
F. Finish Grade Elevations: 4 inches (100 mm) below finish grade elevations indicated on drawings, unless otherwise indicated.
G. Submittals for Architect/Engineer review are not required.
H. Provide the following to the Owner upon project closeout:
1. Fill Composition Test Reports: Results of laboratory tests on actual materials used.
2. Composition Density Test Reports.
I. Wherever pipe runs in or above ceilings or walls, the Contractor shall arrange the run of pipe in such a manner that it does not interfere with grilles, diffusers, outlet boxes, underlayment, or other ceiling or wall components.
J. Install systems, materials and equipment to provide for maximum headroom. Maintain access to equipment requiring service when selecting mounting elevations.
K. Interfering piping shall be eliminated, and repair or replacement of equipment components. As such as practical, connect equipment for ease of disconnecting, with minimum of interference with other installations.
L. Verify that survey bench marks and intended elevations for the work are as indicated.
M. Protect plants, lawns, rock outcroppings, existing construction, and other features to remain.
N. Verify that survey bench marks, survey control points, existing structures, fences, sidewalks, paving, and curbs from excavating equipment and vehicular traffic.
O. Equipment shall be installed in accordance with the manufacturer's instructions and specifications. The Contractor shall contract with the factory authorized roofing contractor for this specific roofing system applicable to this Project. The use of an unauthorized roofing contractor may result in removal and replacement of the penetration systems at this Contractor's expense.
P. All piping shall be installed in accordance with the manufacturer's instructions and specifications. The Contractor shall be responsible for the resolution of any discrepancies in the Contractor's failure to understand and/or coordinate the work with the complete set of Contract Documents are the Contractor's sole responsibility. Failure of the Contractor to notify the Architect/Engineer of discrepancies shall result in the resolution becoming the Contractor's responsibility and subject to the Architect/Engineer's review and possible rejection. The Contractor shall be responsible for the resolution of any discrepancies in the Contractor's failure to understand and/or coordinate the work with the complete set of Contract Documents are the Contractor's sole responsibility. As such, the Contractor is responsible to:
1. Obtain and review shop drawings, product data, manufacturer's wiring diagrams, and manufacturer's instructions for equipment furnished under other sections.
2. Determine connection locations and requirements.
3. Sequence rough-in of plumbing connections to coordinate with installation of equipment.
4. Utilize galvanized steel hangers and supports in all wet, damp, and corrosive environments, including all exterior locations.
5. Where crane rental or other erection is required, such costs shall be included in the plumbing contract, unless specific arrangements are made with the General Contractor to cover these costs.
6. Verify that mounting surfaces are ready to receive support and attachment components.
7. Verify that conditions are satisfactory for installation prior to starting work.
3.02 COORDINATION:
A. Prepare coordination drawings to a scale of 1/4"=1'-0" or larger; detailing major components of the plumbing system, including equipment, and building components. Indicate locations where space is limited for installation and access and where sequencing and coordination of installations are required to maintain the intended flow of the work, including (but not necessarily limited to) the following:
1. Indicate the proposed locations of conduits, equipment, and materials. Include the following:
a. Clearances required for maintaining Code required working space.
b. Equipment connections and support details.
c. Exterior wall and foundation penetrations.
d. Fire-rated wall and floor penetrations and floor penetrations.
e. Sizes and location of required concrete pads and bases.
f. Indicate scheduling, sequencing, movement, and positioning of large equipment into the building during construction.
g. Prepare floor plans, elevations, and details to indicate penetrations in floors, walls, and ceilings and their relationship to other penetrations and installations.
2. Coordination drawings are for use between the different construction trades and will not be reviewed by the Architect/Engineer.

3.03 INTERFACES

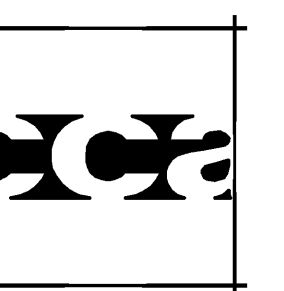
A. Receive, inspect, handle, and store products in accordance with manufacturer's instructions and specifications.
B. Provide temporary and caps and closures on piping and fittings. Maintain in place until installation.
C. Protect equipment on site from weather and moisture by maintaining factory covers and suitable weatherproof covering. For extended outdoor storage, remove covers from equipment and store separately.
1.09 DELIVERIES AND HANDLING:
A. Receive, inspect, handle, and store products in accordance with manufacturer's instructions and specifications.
B. Provide temporary and caps and closures on piping and fittings. Maintain in place until installation.
C. Protect equipment on site from weather and moisture by maintaining factory covers and suitable weatherproof covering. For extended outdoor storage, remove covers from equipment and store separately.
1.10 WARRANTIES AND GUARANTEES:
A. Provide a complete parts and labor warranty and guarantee on all systems installed under this section.
B. Additional warranty and guarantee in excess of this requirement are specified within the individual sections of Division 22.
PART 2 PRODUCTS
2.01 MANUFACTURERS:
A. Manufacturers listed are listed to set minimum standards for quality, design, and performance. The products of other manufacturers may be submitted, at the Contractor's expense, for review and approval. The Contractor shall provide the products of other manufacturers which meet or exceed all requirements of the Contract Documents. The Contractor accepts all responsibility for costs and coordination of such substitutions with all other contractors and subcontractors.
2.02 SOURCE LIMITATIONS:
A. Provide a complete parts and labor warranty and guarantee on all systems installed under this section.
B. Additional warranty and guarantee in excess of this requirement are specified within the individual sections of Division 22.
PART 3 EXECUTION
3.01 INSTALLATION:
A. Work shall be in strict accordance with the contract documents. Verify all dimensions shown and establish all elevations and detailed dimensions not shown.
B. Promptly report to the Architect any delay or difficulties encountered in the installation of the work, which might prevent prompt and proper installation, or make it unsuitable to connect with or receive the work of others. Failure to so report shall constitute an acceptance of the work of other trades as being fit and proper for the execution of this work.
C. Plan, lay out, and coordinate the work with all other trades well in advance so that it proceeds with a minimum of interference to work that has not been completed and work that is in progress.
D. Inform all trades of openings required for the work and provide all special frames, sleeves, and anchor bolts required.
E. The plumbing system layout may be in advance of need.
F. Finish Grade Elevations: 4 inches (100 mm) below finish grade elevations indicated on drawings, unless otherwise indicated.
G. Submittals for Architect/Engineer review are not required.
H. Provide the following to the Owner upon project closeout:
1. Fill Composition Test Reports: Results of laboratory tests on actual materials used.
2. Composition Density Test Reports.
I. Wherever pipe runs in or above ceilings or walls, the Contractor shall arrange the run of pipe in such a manner that it does not interfere with grilles, diffusers, outlet boxes, underlayment, or other ceiling or wall components.
J. Install systems, materials and equipment to provide for maximum headroom. Maintain access to equipment requiring service when selecting mounting elevations.
K. Interfering piping shall be eliminated, and repair or replacement of equipment components. As such as practical, connect equipment for ease of disconnecting, with minimum of interference with other installations.
L. Verify that survey bench marks and intended elevations for the work are as indicated.
M. Protect plants, lawns, rock outcroppings, existing construction, and other features to remain.
N. Verify that survey bench marks, survey control points, existing structures, fences, sidewalks, paving, and curbs from excavating equipment and vehicular traffic.
O. Equipment shall be installed in accordance with the manufacturer's instructions and specifications. The Contractor shall contract with the factory authorized roofing contractor for this specific roofing system applicable to this Project. The use of an unauthorized roofing contractor may result in removal and replacement of the penetration systems at this Contractor's expense.
P. All piping shall be installed in accordance with the manufacturer's instructions and specifications. The Contractor shall be responsible for the resolution of any discrepancies in the Contractor's failure to understand and/or coordinate the work with the complete set of Contract Documents are the Contractor's sole responsibility. Failure of the Contractor to notify the Architect/Engineer of discrepancies shall result in the resolution becoming the Contractor's responsibility and subject to the Architect/Engineer's review and possible rejection. The Contractor shall be responsible for the resolution of any discrepancies in the Contractor's failure to understand and/or coordinate the work with the complete set of Contract Documents are the Contractor's sole responsibility. As such, the Contractor is responsible to:
1. Obtain and review shop drawings, product data, manufacturer's wiring diagrams, and manufacturer's instructions for equipment furnished under other sections.
2. Determine connection locations and requirements.
3. Sequence rough-in of plumbing connections to coordinate with installation of equipment.
4. Utilize galvanized steel hangers and supports in all wet, damp, and corrosive environments, including all exterior locations.
5. Where crane rental or other erection is required, such costs shall be included in the plumbing contract, unless specific arrangements are made with the General Contractor to cover these costs.
6. Verify that mounting surfaces are ready to receive support and attachment components.
7. Verify that conditions are satisfactory for installation prior to starting work.
3.02 COORDINATION:
A. Prepare coordination drawings to a scale of 1/4"=1'-0" or larger; detailing major components of the plumbing system, including equipment, and building components. Indicate locations where space is limited for installation and access and where sequencing and coordination of installations are required to maintain the intended flow of the work, including (but not necessarily limited to) the following:
1. Indicate the proposed locations of conduits, equipment, and materials. Include the following:
a. Clearances required for maintaining Code required working space.
b. Equipment connections and support details.
c. Exterior wall and foundation penetrations.
d. Fire-rated wall and floor penetrations and floor penetrations.
e. Sizes and location of required concrete pads and bases.
f. Indicate scheduling, sequencing, movement, and positioning of large equipment into the building during construction.
g. Prepare floor plans, elevations, and details to indicate penetrations in floors, walls, and ceilings and their relationship to other penetrations and installations.
2. Coordination drawings are for use between the different construction trades and will not be reviewed by the Architect/Engineer.

3.03 INTERFACES

A. Receive, inspect, handle, and store products in accordance with manufacturer's instructions and specifications.
B. Provide temporary and caps and closures on piping and fittings. Maintain in place until installation.
C. Protect equipment on site from weather and moisture by maintaining factory covers and suitable weatherproof covering. For extended outdoor storage, remove covers from equipment and store separately.
1.09 DELIVERIES AND HANDLING:
A. Receive, inspect, handle, and store products in accordance with manufacturer's instructions and specifications.
B. Provide temporary and caps and closures on piping and fittings. Maintain in place until installation.
C. Protect equipment on site from weather and moisture by maintaining factory covers and suitable weatherproof covering. For extended outdoor storage, remove covers from equipment and store separately.
1.10 WARRANTIES AND GUARANTEES:
A. Provide a complete parts and labor warranty and guarantee on all systems installed under this section.
B. Additional warranty and guarantee in excess of this requirement are specified within the individual sections of Division 22.
PART 2 PRODUCTS
2.01 MANUFACTURERS:
A. Manufacturers listed are listed to set minimum standards for quality, design, and performance. The products of other manufacturers may be submitted, at the Contractor's expense, for review and approval. The Contractor shall provide the products of other manufacturers which meet or exceed all requirements of the Contract Documents. The Contractor accepts all responsibility for costs and coordination of such substitutions with all other contractors and subcontractors.
2.02 SOURCE LIMITATIONS:
A. Provide a complete parts and labor warranty and guarantee on all systems installed under this section.
B. Additional warranty and guarantee in excess of this requirement are specified within the individual sections of Division 22.
PART 3 EXECUTION
3.01 INSTALLATION:
A. Work shall be in strict accordance with the contract documents. Verify all dimensions shown and establish all elevations and detailed dimensions not shown.
B. Promptly report to the Architect any delay or difficulties encountered in the installation of the work, which might prevent prompt and proper installation, or make it unsuitable to connect with or receive the work of others. Failure to so report shall constitute an acceptance of the work of other trades as being fit and proper for the execution of this work.
C. Plan, lay out, and coordinate the work with all other trades well in advance so that it proceeds with a minimum of interference to work that has not been completed and work that is in progress.
D. Inform all trades of openings required for the work and provide all special frames, sleeves, and anchor bolts required.
E. The plumbing system layout may be in advance of need.
F. Finish Grade Elevations: 4 inches (100 mm) below finish grade elevations indicated on drawings, unless otherwise indicated.
G. Submittals for Architect/Engineer review are not required.
H. Provide the following to the Owner upon project closeout:
1. Fill Composition Test Reports: Results of laboratory tests on actual materials used.
2. Composition Density Test Reports.
I. Wherever pipe runs in or above ceilings or walls, the Contractor shall arrange the run of pipe in such a manner that it does not interfere with grilles, diffusers, outlet boxes, underlayment, or other ceiling or wall components.
J. Install systems, materials and equipment to provide for maximum headroom. Maintain access to equipment requiring service when selecting mounting elevations.
K. Interfering piping shall be eliminated, and repair or replacement of equipment components. As such as practical, connect equipment for ease of disconnecting, with minimum of interference with other installations.
L. Verify that survey bench marks and intended elevations for the work are as indicated.
M. Protect plants, lawns, rock outcroppings, existing construction, and other features to remain.
N. Verify that survey bench marks, survey control points, existing structures, fences, sidewalks, paving, and curbs from excavating equipment and vehicular traffic.
O. Equipment shall be installed in accordance with the manufacturer's instructions and specifications. The Contractor shall contract with the factory authorized roofing contractor for this specific roofing system applicable to this Project. The use of an unauthorized roofing contractor may result in removal and replacement of the penetration systems at this Contractor's expense.
P. All piping shall be installed in accordance with the manufacturer's instructions and specifications. The Contractor shall be responsible for the resolution of any discrepancies in the Contractor's failure to understand and/or coordinate the work with the complete set of Contract Documents are the Contractor's sole responsibility. Failure of the Contractor to notify the Architect/Engineer of discrepancies shall result in the resolution becoming the Contractor's responsibility and subject to the Architect/Engineer's review and possible rejection. The Contractor shall be responsible for the resolution of any discrepancies in the Contractor's failure to understand and/or coordinate the work with the complete set of Contract Documents are the Contractor's sole responsibility. As such, the Contractor is responsible to:
1. Obtain and review shop drawings, product data, manufacturer's wiring diagrams, and manufacturer's instructions for equipment furnished under other sections.
2. Determine connection locations and requirements.
3. Sequence rough-in of plumbing connections to coordinate with installation of equipment.
4. Utilize galvanized steel hangers and supports in all wet, damp, and corrosive environments, including all exterior locations.
5. Where crane rental or other erection is required, such costs shall be included in the plumbing contract, unless specific arrangements are made with the General Contractor to cover these costs.
6. Verify that mounting surfaces are ready to receive support and attachment components.
7. Verify that conditions are satisfactory for installation prior to starting work.
3.02 COORDINATION:
A. Prepare coordination drawings to a scale of 1/4"=1'-0" or larger; detailing major components of the plumbing system, including equipment, and building components. Indicate locations where space is limited for installation and access and where sequencing and coordination of installations are required to maintain the intended flow of the work, including (but not necessarily limited to) the following:
1. Indicate the proposed locations of conduits, equipment, and materials. Include the following:
a. Clearances required for maintaining Code required working space.
b. Equipment connections and support details.
c. Exterior wall and foundation penetrations.
d. Fire-rated wall and floor penetrations and floor penetrations.
e. Sizes and location of required concrete pads and bases.
f. Indicate scheduling, sequencing, movement, and positioning of large equipment into the building during construction.
g. Prepare floor plans, elevations, and details to indicate penetrations in floors, walls, and ceilings and their relationship to other penetrations and installations.
2. Coordination drawings are for use between the different construction trades and will not be reviewed by the Architect/Engineer.

3.03 INTERFACES

A. Receive, inspect, handle, and store products in accordance with manufacturer's instructions and specifications.
B. Provide temporary and caps and closures on piping and fittings. Maintain in place until installation.
C. Protect equipment on site from weather and moisture by maintaining factory covers and suitable weatherproof covering. For extended outdoor storage, remove covers from equipment and store separately.
1.09 DELIVERIES AND HANDLING:
A. Receive, inspect, handle, and store products in accordance with manufacturer's instructions and specifications.
B. Provide temporary and caps and closures on piping and fittings. Maintain in place until installation.
C. Protect equipment on site from weather and moisture by maintaining factory covers and suitable weatherproof covering. For extended outdoor storage, remove covers from equipment and store separately.
1.10 WARRANTIES AND GUARANTEES:
A. Provide a complete parts and labor warranty and guarantee on all systems installed under this section.
B. Additional warranty and guarantee in excess of this requirement are specified within the individual sections of Division 22.
PART 2 PRODUCTS
2.01 MANUFACTURERS:
A. Manufacturers listed are listed to set minimum standards for quality, design, and performance. The products of other manufacturers may be submitted, at the



Carlie Architects

18000 MacArthur Boulevard Suite 300 Irvine, California 92612 949.233.1030 www.carlie-arch.com



Date: 05/12/2024 CDA # 2020

Table with project details: PROJECT NO. 24068, DATE 05/09/2024, DRAWN BY SEI, SCALE AS NOTED, GROSS AREA 6,719 S.F.

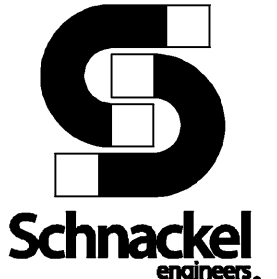
REVISIONS

Table with City of Puyallup Development & Permitting Services ISSUED PERMIT, Building, Planning, Engineering, Public Works, Fire, Traffic.

SHEET TITLE: PLUMBING SPECIFICATIONS

SHOE PALACE SOUTH HILL MALL SPACE 410 & 420 3500 S MERIDIAN PUYALLUP, WA 98573

PROJ20240836



P5.1

- 3. Coordinate compatibility of support and attachment components with mounting surfaces... 1.02 SUBMITTALS... 1.03 QUALITY ASSURANCE... PART 2 PRODUCTS... 2.01 SUPPORT AND ATTACHMENT COMPONENTS... 2.02 INSULATION ACCESSORIES...

- 2.03 FLEXIBLE ELASTOMER CELLULAR INSULATION... 2.04 JACKETS... PART 3 EXECUTION... 3.01 EXAMINATION... 3.02 INSTALLATION... 3.03 SCHEDULES...

- 2.05 FIELD QUALITY CONTROL... PART 3 EXECUTION... 3.01 EXAMINATION... 3.02 INSTALLATION... 3.03 SCHEDULES...

- 2.06 FIELD QUALITY CONTROL... PART 3 EXECUTION... 3.01 EXAMINATION... 3.02 INSTALLATION... 3.03 SCHEDULES...

- 2.07 FIELD QUALITY CONTROL... PART 3 EXECUTION... 3.01 EXAMINATION... 3.02 INSTALLATION... 3.03 SCHEDULES...

- 2.08 FIELD QUALITY CONTROL... PART 3 EXECUTION... 3.01 EXAMINATION... 3.02 INSTALLATION... 3.03 SCHEDULES...

- 2.09 FIELD QUALITY CONTROL... PART 3 EXECUTION... 3.01 EXAMINATION... 3.02 INSTALLATION... 3.03 SCHEDULES...

- 2.10 FIELD QUALITY CONTROL... PART 3 EXECUTION... 3.01 EXAMINATION... 3.02 INSTALLATION... 3.03 SCHEDULES...

- 2.11 FIELD QUALITY CONTROL... PART 3 EXECUTION... 3.01 EXAMINATION... 3.02 INSTALLATION... 3.03 SCHEDULES...

- 2.12 FIELD QUALITY CONTROL... PART 3 EXECUTION... 3.01 EXAMINATION... 3.02 INSTALLATION... 3.03 SCHEDULES...

- 2.13 FIELD QUALITY CONTROL... PART 3 EXECUTION... 3.01 EXAMINATION... 3.02 INSTALLATION... 3.03 SCHEDULES...

- 2.14 FIELD QUALITY CONTROL... PART 3 EXECUTION... 3.01 EXAMINATION... 3.02 INSTALLATION... 3.03 SCHEDULES...

- 2.15 FIELD QUALITY CONTROL... PART 3 EXECUTION... 3.01 EXAMINATION... 3.02 INSTALLATION... 3.03 SCHEDULES...

- 2.16 FIELD QUALITY CONTROL... PART 3 EXECUTION... 3.01 EXAMINATION... 3.02 INSTALLATION... 3.03 SCHEDULES...

- 2.17 FIELD QUALITY CONTROL... PART 3 EXECUTION... 3.01 EXAMINATION... 3.02 INSTALLATION... 3.03 SCHEDULES...

- 2.18 FIELD QUALITY CONTROL... PART 3 EXECUTION... 3.01 EXAMINATION... 3.02 INSTALLATION... 3.03 SCHEDULES...

- 2.19 FIELD QUALITY CONTROL... PART 3 EXECUTION... 3.01 EXAMINATION... 3.02 INSTALLATION... 3.03 SCHEDULES...

- 2.20 FIELD QUALITY CONTROL... PART 3 EXECUTION... 3.01 EXAMINATION... 3.02 INSTALLATION... 3.03 SCHEDULES...

- 2.21 FIELD QUALITY CONTROL... PART 3 EXECUTION... 3.01 EXAMINATION... 3.02 INSTALLATION... 3.03 SCHEDULES...

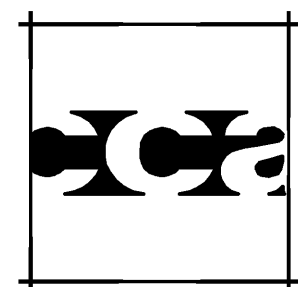
- 2.22 FIELD QUALITY CONTROL... PART 3 EXECUTION... 3.01 EXAMINATION... 3.02 INSTALLATION... 3.03 SCHEDULES...

- 2.23 FIELD QUALITY CONTROL... PART 3 EXECUTION... 3.01 EXAMINATION... 3.02 INSTALLATION... 3.03 SCHEDULES...

- 2.24 FIELD QUALITY CONTROL... PART 3 EXECUTION... 3.01 EXAMINATION... 3.02 INSTALLATION... 3.03 SCHEDULES...

- 2.25 FIELD QUALITY CONTROL... PART 3 EXECUTION... 3.01 EXAMINATION... 3.02 INSTALLATION... 3.03 SCHEDULES...

- 2.26 FIELD QUALITY CONTROL... PART 3 EXECUTION... 3.01 EXAMINATION... 3.02 INSTALLATION... 3.03 SCHEDULES...



Carlie Coatsworth architects

1800 MacArthur Boulevard Suite 300 Irvine, California 92614 949.833.1030 www.carliecoatsworth.com

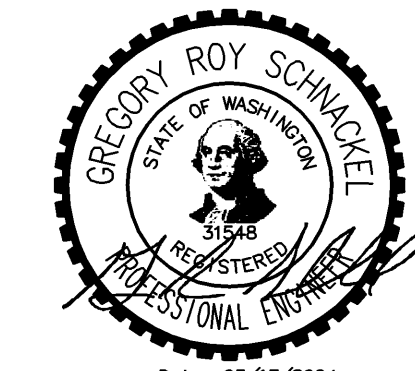


Table with project details: PROJECT NO. 24068, DATE 05/09/2024, DRAWN BY SEI, SCALE AS NOTED, FILE, GROSS AREA 6,719 S.F.

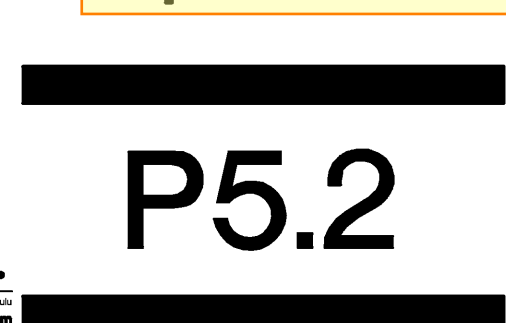
REVISIONS

Table with project approval: City of Puyallup Development & Permitting Services ISSUED PERMIT, Building Planning, Engineering Public Works, Fire Traffic

SHEET TITLE: PLUMBING SPECIFICATIONS

SHOE PALACE SOUTH HILL MALL SPACE 410 & 420 3500 S MERIDIAN PUYALLUP, WA 98573

PROJ20240836



P5.2

- E. Install approved potable water protection devices on plumbing lines where contamination of domestic water may occur...

END OF SECTION SECTION 223000 - PLUMBING EQUIPMENT

- PART 1 GENERAL 1.01 ADMINISTRATIVE REQUIREMENTS A. Sequencing: Ensure that utility connections are achieved in an orderly and expeditious manner...

- 2.01 COMMERCIAL TANK WATER HEATERS A. Commercial Electric: 1. Type: Factory-assembled and wired, electric, vertical storage...

- 2.02 ELECTRICAL WORK A. Provide electrical motor driven equipment specified complete with motors, motor starters, controls, and wiring...

END OF SECTION SECTION 224000 - PLUMBING FIXTURES

- PART 1 GENERAL 1.01 SUBMITTALS A. Provide the following for Architect/Engineer review: 1. Product Data: Provide catalog illustrations of fixtures, sizes, rough-in dimensions, utility sizes, and finish options...

END OF SECTION SECTION 221006 - PLUMBING SPECIALTIES

- PART 1 GENERAL 1.01 SUBMITTALS A. Provide the following for Architect/Engineer review: 1. Product Data: Provide component sizes, rough-in requirements, service sizes, and finishes...

END OF SECTION

- Q. Provide dirt legs as detailed on the Drawings on all gas piping connections to appliances and adjacent work.

- X. Manufactured Sleeve-Seal Systems: 1. Install manufactured sleeve-seal systems in sleeves located in grade slabs and exterior walls at piping entrances into building...

- 3.04 APPLICATION A. Use grooved mechanical couplings and fasteners only in accessible locations.

- 3.05 TOLERANCES A. Interior Drainage Piping: Establish invert elevations within 1/2 inch (10 mm) vertically of location indicated and slope to drain at minimum of 1/4 inch per foot (1:50) slope, unless noted otherwise on the Drawings...

- 3.08 SCHEDULES A. Pipe Hanger Spacing: 1. Metal Piping: a. Pipe Size: 1/2 inches (15 mm) to 1-1/4 inches (32 mm): 1. Maximum Hanger Spacing: 6.5 ft (2 m)...

END OF SECTION SECTION 221006 - PLUMBING SPECIALTIES

- 3.01 EXAMINATION A. Verify that excavations are to required grade, dry, and not over-excavated.

- 3.01 EXAMINATION A. Verify that excavations are to required grade, dry, and not over-excavated.

- 7. Multiple or Trapezoid Hangers for Hot Pipe Sizes 6 Inches (150 mm) and Over: Small channels with welded supports or spacers and hanger rods, cast iron roll...

- 2.11 MANUFACTURED SLEEVE-SEAL SYSTEMS A. Modular/Mechanical Seal: 1. Synthetic rubber interlocking links continuously fill annular space between pipe and well casing opening...

- 2.12 GATE VALVES (EXTERIOR UTILITY SERVICE ONLY) A. Up to 24 inches (600 mm) and Larger: 1. MSS 300, Class 125, bronze body, bronze trim, rising stem, handwheel, inside screw, solid wedge disc, solder or threaded ends...

- 2.17 RELIEF VALVES A. Pressure: 1. ANSI Z21.22, AGA certified, bronze body, teflon seat, steel stem and springs, automatic, direct pressure actuated...

- 2.20 ACCESS DOORS A. Stealth access panel units as manufactured by Wind-lock, or equal, shall be prefabricated with high-density opaque, reinforced with composite filament glass fiber mat and structural reinforcing as required...

END OF SECTION SECTION 221006 - PLUMBING SPECIALTIES

- 2.10 PIPE HANGERS AND SUPPORTS A. Provide hangers and supports that comply with MSS SP-58. B. Plumbing Piping - Draw, Waste, and Vent: 1. Conform to MSS SP-58...

- a. Burning Characteristics: 0 seconds Average Time of Burning (ATB), 0 mm Area of Burning (AB), when tested in accordance with ASTM D 635.

END OF SECTION SECTION 221005 - PLUMBING PIPING

- 1.01 QUALITY ASSURANCE A. Valves: Manufacturer's name and pressure rating marked on valve body.

- 2.03 SANITARY SEWER PIPING, BURIED WITHIN 5 FEET (1500 MM) OF BUILDING A. Cast Iron Pipe: ASTM A474, service weight.

- 2.04 SANITARY SEWER PIPING, ABOVE GRADE A. Cast Iron Pipe: ASTM A88 and C151 301, hubless, service weight.

- 2.05 DOMESTIC WATER PIPING, BURIED WITHIN 5 FEET (1500 MM) OF BUILDING A. Copper Pipe: ASTM B62, hard drawn.

- 2.06 DOMESTIC WATER PIPING, ABOVE GRADE A. Copper Pipe: ASTM B88 (ASTM B88M), Type L (B), Draw (H).

- 2.07 NATURAL GAS PIPING, ABOVE GRADE A. Steel Pipe: ASTM A53/ASTM Schedule 40 black.

- 2.08 CONDENSATE DRAINAGE PIPING AND EQUIPMENT DRAINS, ABOVE GRADE A. Copper Tube: ASTM B306, DW.

BE JOHN 240681