

PLOT DATE: 2025-04-24 11:18:52 AM

# ATCO

## REFERENCE DRAWING APPROVED BY THE STATE

### CASCADE CHRISTIAN SCHOOL

28x64 WASHROOM-CLASSROOM

315 21st STREET SE, PUYALLUP, WA, 98372

City of Puyallup  
Building  
REVIEWED  
FOR  
COMPLIANCE

SKinnear  
05/29/2025  
1:36:53 PM



Approval of submitted plans is not an approval of omissions or oversights by this office or non compliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable codes and regulations of the local government.

The approved construction plans, documents, and all engineering must be posted on the job at all inspections in a visible and readily accessible location.

**Full sized legible color plans** are required to be provided by the permittee on site for inspection.

Separate Electrical Permit is required with the Washington State Department of Labor & Industries.  
<https://lni.wa.gov/licensing-permits/electrical/electrical-permits-fees-and-inspections>  
or call for Licensing Information: 1-800-647-0982

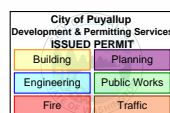
FACTORY ADDRESS: 115 PEACEKEEPERS DR SW, CALGARY, ALBERTA, T3E 7X4

FACTORY CONTACT: OWAIS KHAN E. owais.khan@atco.com T. 403.801.2796

DESIGN PROFESSIONAL: YURI YURIANTO E. yurianto@modularconsultant.com

#### OVERALL LIST - SERIAL NUMBERS

UNIT	SERIAL NUMBER	NOTES
1 OF 2	4602515144	
2 OF 2	4602515145	



PRPF20250508

11x17 Titleblock R2019.1

PLOT DATE: 2025-05-26 10:31:38 AM

R2024.1

11x17 Titleblock

# DRAWING LIST - BUILDING PERMIT

SHEET NUMBER	SHEET NAME
GM000	COVER SHEET & SERIAL NUMBERS
AM001	ARCHITECTURAL DRAWING LIST & GENERAL INFORMATION
AM002	ARCHITECTURAL GENERAL INFORMATION
AM010	ASSEMBLY SCHEDULES
AM020	OVERALL DOOR & WINDOW SCHEDULE
AM051	OVERALL FIRE SAFETY PLAN
AM101	OVERALL FLOOR PLAN
AM200	OVERALL BUILDING ELEVATION
AM201	OVERALL BUILDING ELEVATION
AM210	OVERALL BUILDING SECTIONS
AM211	OVERALL BUILDING SECTIONS
AM301	EXTERIOR FINISH DETAILS - CLADDING
AM302	EXTERIOR FINISH DETAILS - CLADDING
AM303	EXTERIOR FINISH DETAILS - CLADDING
AM307	EXTERIOR FINISH DETAILS - BARD
AM308	EXTERIOR FINISH DETAILS - BARD
AM310	EXTERIOR FINISH DETAILS - CLADDING
AM400	INTERIOR FINISH DETAILS - WASHROOM
AM401	INTERIOR FINISH DETAILS - OPEN WORK SPACE
AM402	INTERIOR FINISH DETAILS - WASHROOM PARTITIONS
EM001	ELECTRICAL DRAWING LIST, LEGEND & SINGLE LINE DIAGRAM
EM002	GENERAL NOTES & LIGHTING BUDGET CALCULATIONS
EM101	OVERALL POWER & DATA PLAN - LEVEL 1
EM201	OVERALL LIGHTING PLAN - LEVEL 1
EM301	OVERALL FIRE ALARM PLAN - LEVEL 1
EM302	FIRE RISER DIAGRAM
EM500	ELECTRICAL DETAILS
EM501	ELECTRICAL DETAILS
EM600	PANEL SCHEDULES
EM603	LPD CALCULATIONS
EM604	LOAD CALCULATIONS
MM001	MECHANICAL DRAWING LIST & GENERAL INFORMATION
MM002	MECHANICAL SCHEDULES
MM003	MECHANICAL SCHEDULES 2
MM101	OVERALL HVAC PLAN - LEVEL 1
MM301	OVERALL PLUMBING PLAN - LEVEL 1
MM310	PLUMBING DETAILS
SC100	FOUNDATION PLAN
SC200	FOUNDATION DETAILS
SM001	STRUCTURAL DRAWING LIST & GENERAL INFORMATION
SM101	OVERALL STRUCTURAL PLAN - LEVEL 1
SM121-101	STRUCTURAL FLOOR FRAMING PLAN - UNIT 101
SM121-102	STRUCTURAL FLOOR FRAMING PLAN - UNIT 102
SM141	OVERALL SEISMIC CEILING PLAN
SM151-101	STRUCTURAL ROOF FRAMING PLAN - UNIT 101
SM151-102	STRUCTURAL ROOF FRAMING PLAN - UNIT 102
SM300	EXTERIOR STRUCTURAL DETAILS
SM301	EXTERIOR STRUCTURAL DETAILS
SM302	EXTERIOR STRUCTURAL DETAILS
SM303	EXTERIOR STRUCTURAL DETAILS
SM304	EXTERIOR STRUCTURAL DETAILS
SM500	STEEL FABRICATION DETAILS
SM501	STEEL FABRICATION DETAILS
Grand total: 53	

## BUILDING DESIGN PARAMETERS/ STATE PLATE INFORMATION:

- USE / OCCUPANCY: E (EDUCATIONAL)
- CONSTRUCTION TYPE: V-B (UNSPRINKLERED)
- SPRINKLER SYSTEM: NO
- FIRE ALARM SYSTEM: NO
- BUILDING AREA: 1780 SQFT
- BUILDING HEIGHT: <15 FEET
- NUMBER OF STOREYS: 1
- NUMBER OF MODULES: 2 (REFER TO SERIAL # - LEGEND)
- OCCUPANT LOAD: 40 PERSONS
- CLIMATE ZONE: 4C
- EXTERIOR WALL FIRE RATING: NOT RATED
- THIS BUILDING MUST BE INSTALLED WITH THE FIRE SEPARATION DISTANCES AS REQUIRED BY IBC TABLE 602, AND SECTION 704.3
- ENERGY CODE COMPLIANCE: WSEC 2021
- MANUFACTURER'S DATA PLATE AND STATE LABELS ARE TO BE LOCATED ABOVE THE ELECTRICAL PANEL.

## STATE CODES:

- BUILDING : 2021 WASHINGTON STATE BUILDING CODE (2021 IBC, AMENDED)  
 PLUMBING: 2021 WASHINGTON PLUMBING CODE (2021 UPC, AMENDED)  
 MECHANICAL: 2021 WASHINGTON STATE MECHANICAL CODE (2021 IMC, AMENDED)  
 ELECTRICAL: 2023 WASHINGTON ELECTRICAL CODE (2023 NFPA 70, AMENDED)  
 ENERGY: 2021 WASHINGTON STATE COMMERCIAL ENERGY CODE (2021 IECC, AMENDED)  
 ACCESSIBILITY: 2017 WASHINGTON ACCESSIBILITY CODE (ANSI A117.1, AMENDED)

## FLOOD LOAD:

THIS BUILDING IS NOT DESIGNED TO BE SUBMERGED OR SUBJECTED TO WAVE ACTION WHEN LOCATED IN A FLOOD PRONE OR ZONE AREA. THE FINISH FLOOR ELEVATION MUST BE LOCATED ABOVE THE BUILDING SITE FLOOD PLANE LEVEL FOR THIS BUILDING TO BE LOCATED IN A FLOOD PRONE OR ZONE AREA SUBJECT TO LOCAL JURISDICTION.

## ACCESSIBILITY NOTES:

- THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL BE DISPLAYED AT ALL ACCESSIBLE RESTROOM FACILITIES AND AT ACCESSIBLE BUILDING ENTRANCES UNLESS ALL ENTRANCES ARE ACCESSIBLE. INACCESSIBLE ENTRANCES SHALL HAVE DIRECTIONAL SIGNS INDICATING THE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE.
- WHERE STORAGE FACILITIES SUCH AS CABINETS, SHELVES, CLOSETS, AND DRAWERS ARE PROVIDED AT LEAST ONE OF EACH TYPE PROVIDED SHALL CONTAIN STORAGE SPACE COMPLYING WITH THE FOLLOWING: DOORS, ETC. TO SUCH SPACES SHALL BE ACCESSIBLE (ie. TOUCH LATCHES, U-SHAPED PULLS); SPACES SHALL BE WITHIN 15 INCHES MINIMUM AND 48 INCHES MAXIMUM OF THE FLOOR FOR FORWARD REACH OR 9 INCHES MINIMUM AND 54 INCHES MAXIMUM, OF THE FLOOR FOR SIDE REACH; CLOTHES RODS SHALL BE A MAXIMUM OF 54 INCHES ABOVE THE FLOOR (48 INCHES MAXIMUM WHEN DISTANCE FROM WHEELCHAIR TO ROD EXCEEDS 10 INCHES).
- CONTROLS, DISPENSERS, RECEPTACLES AND OTHER OPERABLE EQUIPMENT SHALL BE NO HIGHER THAN 45 INCHES ABOVE THE FLOOR FOR FRONT APPROACH OR 54 INCHES ABOVE THE FLOOR FOR SIDE APPROACH. RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15 INCHES ABOVE THE FLOOR. EXCEPTION: HEIGHT LIMITATIONS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.
- WHERE EMERGENCY WARNING SYSTEMS ARE PROVIDED, THEY SHALL INCLUDE BOTH AUDIBLE AND VISUAL ALARMS. THE VISUAL ALARMS SHALL BE LOCATED THROUGH- OUT, INCLUDING RESTROOMS, AND PLACED 80 INCHES ABOVE THE FLOOR OR 6 INCHES BELOW CEILING, WHICHEVER IS LOWER.
- DOORS TO ALL ACCESSIBLE SPACES SHALL HAVE ACCESSIBLE HARDWARE (ie. LEVER-OPERATED, PUSH-TYPE, U-SHAPED) MOUNTED NO HIGHER THAN 48 INCHES ABOVE THE FLOOR.
- ALL DOORS SHALL BE OPENABLE BY A SINGLE EFFORT. THE MAXIMUM FORCE REQUIRED TO OPEN A DOOR SHALL NOT EXCEED 8.5 LBS. FOR EXTERIOR SWINGING DOORS AND 5 LBS. FOR ALL SLIDING, FOLDING, AND INTERIOR SWINGING DOORS.
- FLOOR SURFACES SHALL BE STABLE, FIRM, AND SLIP-RESISTANT. CHANGES IN LEVEL BETWEEN 0.25 INCH AND 0.5 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. CHANGES IN LEVEL GREATER THAN 0.5 INCH REQUIRE RAMPS. CARPET PILE THICKNESS SHALL BE 0.5 INCH MAX. GRATINGS IN FLOOR SHALL HAVE SPACES NO GREATER THAN 0.5 INCH WIDE IN ONE DIRECTION. DOORWAY THRESHOLDS SHALL NOT EXCEED 0.5 INCH IN HEIGHT.

## GENERAL NOTES:

- ACCESS TO BUILDING FOR PERSONS IN WHEELCHAIRS IS DESIGNED BY AND FIELD BUILT BY OTHERS AND SUBJECT TO LOCAL JURISDICTION. AT LEAST 60% OF PUBLIC ENTRANCES (INCLUDING PRIMARY ENTRANCE) AND ALL REQUIRED EXITS MUST BE ACCESSIBLE.
- ALL DOORS SHALL BE OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR EFFORT. MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS SHALL NOT BE USED.
- ALL GLAZING WITHIN A 24 INCH ARC OF DOORS, WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR, AND ALL GLAZING IN DOORS SHALL BE SAFETY, TEMPERED OR ACRYLIC PLASTIC SHEET.
- ALL STEEL STRAPS REFERENCED ON FLOOR PLAN SHALL BE 1.5 INCH x 26 GA. w(8) 15 GA. x 7/16 INCH CROWN x 1 1/2 INCH STAPLES WITH A MINIMUM OF 1" PENETRATION EACH END OF STRAP OR EQUVALENT FROM RIDGE BEAM TO COLUMN, AND COLUMN TO FLOOR.
- MINIMUM CORRIDOR WIDTH IS 44 INCHES (IF APPLICABLE).
- PORTABLE FIRE EXTINGUISHER PER N.F.P.A. - 101 INSTALLED BY OTHERS ON SITE, AND SUBJECT TO LOCAL JURISDICTION AND APPROVAL.
- THIS BUILDING HAS NOT BEEN DESIGNED FOR COASTAL HAZARD AREAS, OCEAN HAZARD OR REGULATORY FLOOD PLAIN AREAS.
- ALL INTERIOR WALL AND CEILING FINISHES SHALL BE CLASS 'B' OR BETTER IN CORRIDORS. ALL INTERIOR WALL AND CEILING FINISHES SHALL BE CLASS 'C' OR BETTER IN ROOMS AND ENCLOSED SPACES.
- ALL INTERIOR ENCLOSED AREAS OF PLENUM WALL FINISHES SHALL BE CLASS 'A' OR BETTER. CARPET SHALL BE CLASS II OR BETTER.

**PRPF20250508**

### GENERAL NOTE:

- DRINKING FOUNTAIN, BOTTLE FILLING STATION SHALL BE PROVIDED AND INSTALLED BY OTHERS ON SITE.
- THIS BUILDING SHALL NOT BE LOCATED IN AREAS WITH SNOW, WIND, AND/OR SEISMIC LOADS IN EXCESS OF THOSE NOTED N THE BUILDING DESIGN LOADS.
- U-VALUES FOR ROOF, WALLS, FLOORS, DOORS AND WINDOWS MAY EXCEED THE MINIMUM REQUIRED U-VALUES NOTED IN THE ENERGY REPORT.

### MODEL APPROVAL :

THIRD PARTY OR REGISTERED ARCHITECT OR ENGINEER - STATE OF WASHINGTON

### SEALED DRAWING :

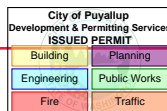
WASHINGTON REGISTERED ARCHITECT OR ENGINEER



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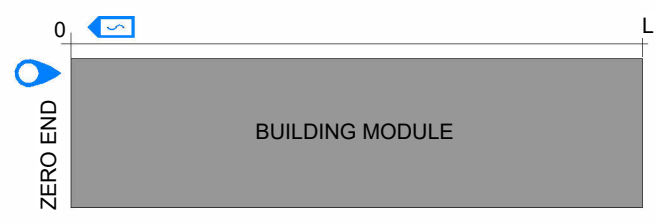
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D	2025-05-14	RE-ISSUED FOR STATE APPROVAL	NM	AH
C	2025-04-22	RE-ISSUED FOR STATE APPROVAL	NM	AH
B	2024 -07-17	REISSUED FOR STATE APPROVAL	NM	
A	2024 -06-07	ISSUED FOR STATE APPROVAL	NM	

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH		DRAWING TITLE: ARCHITECTURAL DRAWING LIST & GENERAL INFORMATION	
CLIENT: CASCADE CHRISTIAN SCHOOL	PROJECT NO: 1107994	DRAWING NO: AM001	REV. # D

ZERO END:   
 ARROW INDICATES THE LOCATION OF THE ZERO END ON THE UNIT  
 ORDINATE DIMENSIONS WILL START AT THIS POINT

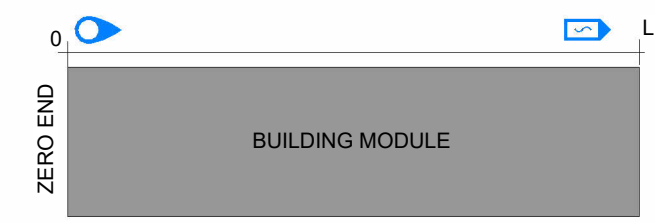
SHIPPING DIRECTION:   
 ARROW INDICATES THE DIRECTION OF TRAVEL

EXAMPLE 1:



OR,

EXAMPLE 2:



ARCHITECTURAL ABBREVIATIONS	
ABBREVIATION	DEFINITION
ACC	ACCESSIBLE
ACFL	ACCESS FLOOR
AD	AREA DRAIN
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
B/O	BOTTOM OF
BFC	BELOW FINISHED CEILING
BLDG	BUILDING
BSC	BELOW STRUCTURAL CEILING
C/L	CENTRE LINE
C/W	COMPLETE WITH
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CLR	CLEARANCE
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
DEG	DEGREES
DIA	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
DP	DEPTH
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
F/O	FACE OF
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FIM	FREE ISSUE MATERIAL
FLR	FLOOR
FT	FOOT/ FEET
GA	GAUGE
GWB	GYPSUM WALL BOARD
GWG	GEORGIAN WIRE GLASS
GYP	GYPSUM
ID	INSIDE DIAMETER
INFO	INFORMATION
INSUL	INSULATION
L	LENGTH

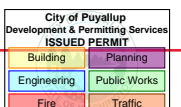
ARCHITECTURAL ABBREVIATIONS	
ABBREVIATION	DEFINITION
LL	LIVE LOAD
m	METER
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MIN	MINIMUM
MISC	MISCELLANEOUS
mm	MILLIMETER
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
No.	NUMBER
NTS	NOT TO SCALE
O/C	ON CENTRE
O/H	OVERHEAD
OD	OUTSIDE DIAMETER
OPP	OPPOSITE
OWSJ	OPEN WEB STEEL JOIST
PLAM	PLASTIC LAMINATE
PSPI	PLANT SUPPLIED PLANT INSTALLED
PSSI	PLANT SUPPLIED SITE INSTALLED
PT	PRESSURE TREATED
R	RADIUS
R/W	REINFORCE WITH
REINF	REINFORCED
SF	SQUARE FEET
SIM	SIMILAR
SOG	SLAB ON GRADE
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
SSSI	SITE SUPPLIED SITE INSTALLED
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STRUCT	STRUCTURAL
SUSP	SUSPENDED
T/O	TOP OF
TBD	TO BE DETERMINED
TOC	TOP OF CURB
TOF	TOP OF FLOOR
TOS	TOP OF STEEL
TYP	TYPICAL
U/G	UNDER GROUND
U/S	UNDERSIDE
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/C	WATER CLOSET

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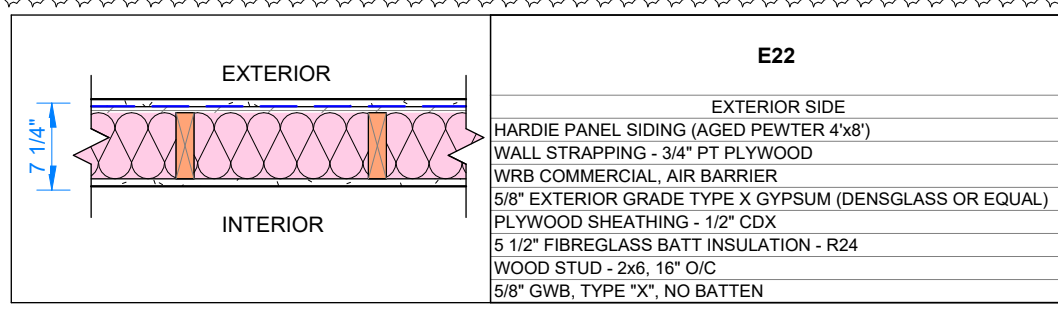
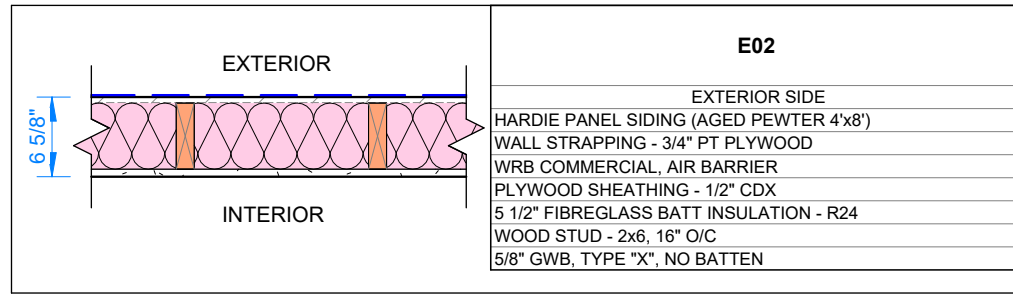


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0	2024-07-17	ISSUED FOR CONSTRUCTION	NM	AH
B	2024-07-17	REISSUED FOR STATE APPROVAL	NM	
A	2024-06-07	ISSUED FOR STATE APPROVAL	NM	

PROJECT:	28x64 ASL USA SR FLEET OFFICE WASH
CLIENT:	CASCADE CHRISTIAN SCHOOL

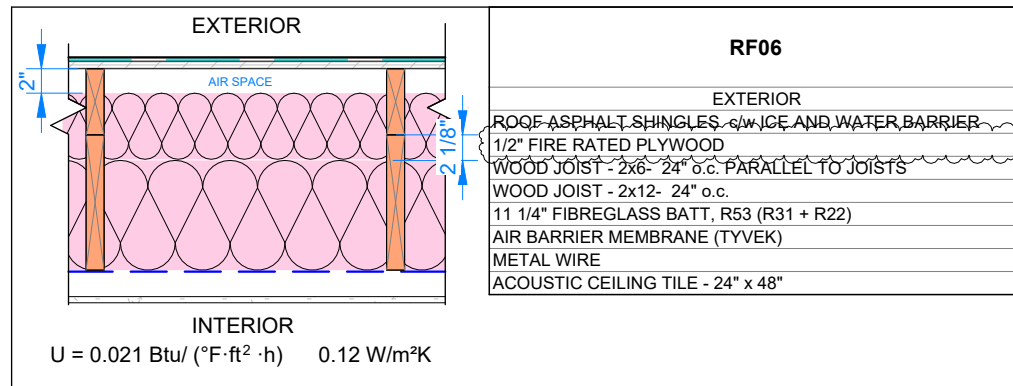
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PROJECT NO: 1107994	DRAWING NO: AM002
REV. # 0	

**EXTERIOR WALLS**

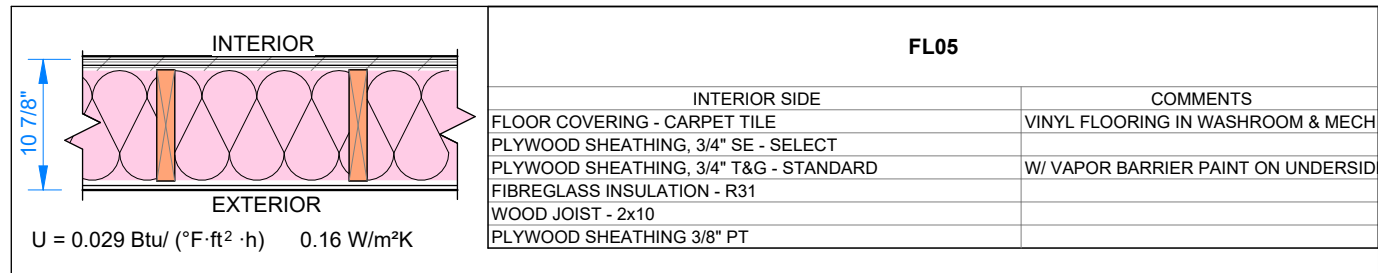


**NOTE:**  
 - 5/8" TYPE "X" VINYL COVERED GYPSUM ( CLASS I F.S. , CLASS II VAPOR RETARDER )  
 - DOUBLE TOP PLATE (SPF #2)  
 - TRIPLE 2x6 (SPF #2) ROUGH OPENING HEADERS

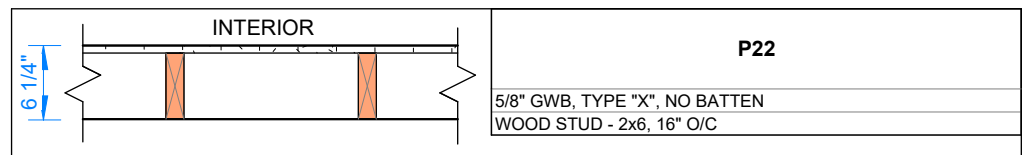
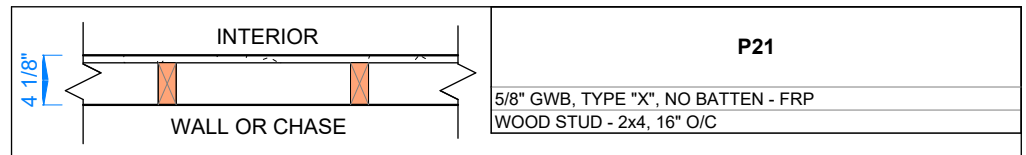
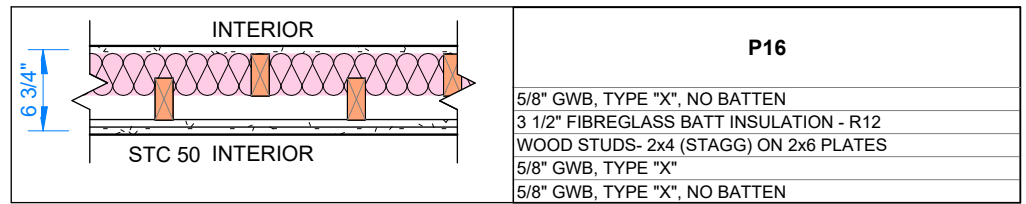
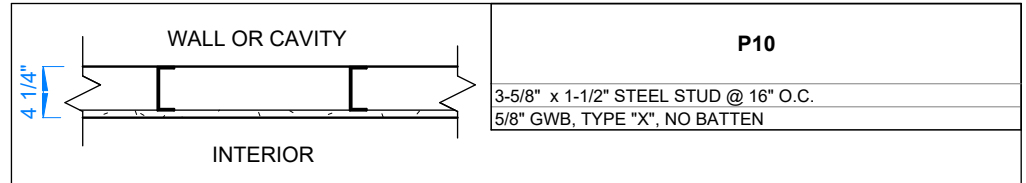
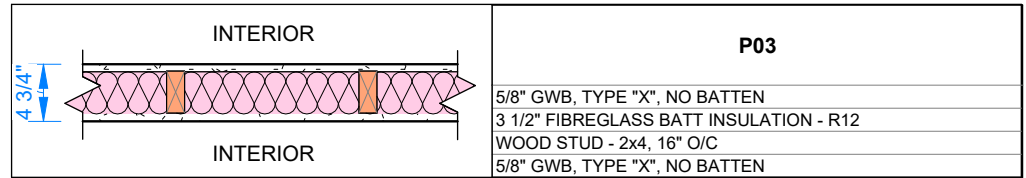
**ROOFS**



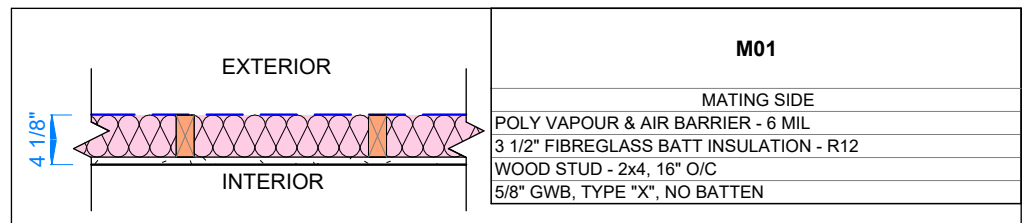
**FLOORS**



**PARTITIONS**



**MATING WALL**

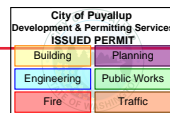


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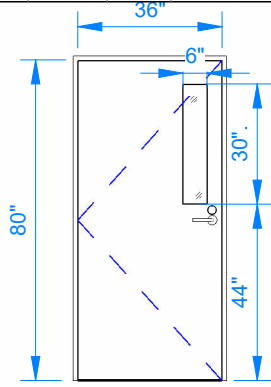


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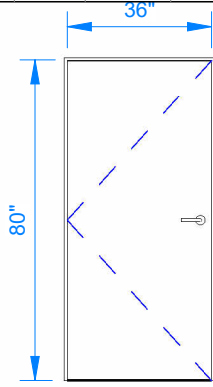
PROJECT:	28x64 ASL USA SR FLEET OFFICE WASH		DRAWING TITLE:	ASSEMBLY SCHEDULES			
CLIENT:	CASCADE CHRISTIAN SCHOOL	PROJECT NO:	1107994	DRAWING NO:	AM010	REV. #	D

DOOR SCHEDULE.

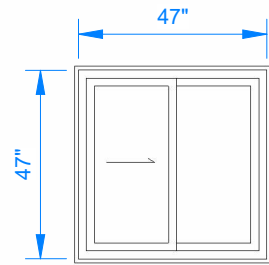
TYPE MARK	QTY.	FUNCTION	DOOR SWING	PANEL TYPE	DOOR PANEL PARAMETERS					LITE			FRAME PARAMETERS			KICKPLATE			PANIC HARDWARE	KEYED ENTRY LEVER SET	DOREX L42 GRADE 2 PRIVACT LEVER	ALUM NEOPRENE WEATHER STRIP	36" ALUM/TPE DOOR SWEEP C/W DRIP CAP	DOOR CLOSER	BALL BEARING HINGES, 4 1/2" X 4"	DS801TBA - 8" ALUMINUM 1/2" RISE THRESHOLD	STORE ROOM LOCKSET	D-PULL, ALUMINUM 9", CW 4X16" PUSH PLATE	DOREX 9500TL70, PANIC CLASSROOM LEVER LOCKSET WEISER K'WAY MK	2560 HEAVY DUTY CHAIN CHECK	8" THERM BRK THRESHOLD	T233 DOOR STOP, WALL MOUNTED.	COMMENTS		
					SILL HEIGHT	WIDTH	HEIGHT	ROUGH WIDTH	ROUGH HEIGHT	EXTERIOR COLOUR	INTERIOR COLOUR	REQ.	WIDTH	HEIGHT	FRAME TYPE	THROAT SIZE	FRAME COLOUR	REQ.																WIDTH	HEIGHT
D265C	2	Exterior	LHR	COMM. INSULATED STEEL	0' - 0"	3' - 0"	6' - 8"	3' - 2 1/4"	6' - 9"	ANCHORS AWEIGH	SOFTWARE SW7074	Yes	0' - 6"	2' - 6"	WELDED	0' - 6 5/8"	-EXT ANCHORS AWEIGH SW9179 / INT SOFTWARE SW7074	No	0' - 0"	0' - 0"	Yes	Yes		Yes	Yes	3	1								UVALUE=0.146 Btu/h*sqft*F PSSI
D550N	2	Interior	RH	SC WOOD	0' - 0"	3' - 0"	6' - 8"	3' - 1 1/2"	6' - 9 1/8"	SOFTWARE SW7074	SOFTWARE SW7074	No	0' - 0"	0' - 0"	18ga EXP REV STEEL FRAME	0' - 4 3/4"	SOFTWARE SW7074	Yes	2' - 10 1/2"	0' - 10"	No	No		No	3	No	Yes	No	No	No	Yes				BARRIER FREE SIGN, SELF CLOSING HINGE
D550P	1	Interior	RH	SC WOOD	0' - 0"	3' - 0"	6' - 8"	3' - 1 1/2"	6' - 9 1/8"	SOFTWARE SW7074	SOFTWARE SW7074	No	0' - 0"	0' - 0"	18ga EXP REV STEEL FRAME	0' - 4 3/4"	SOFTWARE SW7074	No	0' - 0"	0' - 0"					3	Yes	No	No	Yes						
D560G	1	Interior	RHR	SC WOOD	0' - 0"	3' - 0"	6' - 8"	3' - 1 1/2"	6' - 9 1/8"	SOFTWARE SW7074	SOFTWARE SW7074	No	0' - 0"	0' - 0"	18ga EXP REV STEEL FRAME	0' - 7 3/8"	SOFTWARE SW7074	No	0' - 0"	0' - 0"					3		Yes	No	Yes						



D265 C  
HMI 36x80  
6x30 LITE  
EXP REV



D550 - D560  
SC WOOD 36x80  
EXP REV



WS280  
PVC SLIDER  
47X47

**NOTE:**  
MINIMUM REQUIRED U-VALUES FOR DOORS AND WINDOWS MAY EXCEED IN THIS PACKAGE COMPARING TO WHAT HAS BEEN CALCULATED IN ENERGY REPORT.

**DOOR TAG LEGEND:**  
XX - #Y - ZZ  
DOOR STOP LOCATION  
WS: WALL MOUNTED DOOR STOP  
FS: FLOOR MOUNTED DOOR STOP  
HP: HINGE PIN  
CS: CHAIN STOP  
THRESHOLD SIZE  
X: X" FLAT ALUMINUM THRESHOLD  
XT: X" THERMALLY BROKEN THRESHOLD  
DOOR SWING  
LH: LEFT HAND  
RH: RIGHT HAND  
RHR: RIGHT HAND REVERSE  
LHR: LEFT HAND REVERSE

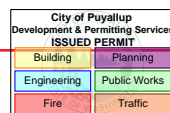
DOOR & WINDOW LEGEND

WINDOW SCHEDULE																			
WINDOW NO.	QTY	DIMENSIONS				TYPE	ROUGH OPENING		MATERIAL	FINISH COLOUR	JAMB THICKNESS	GLAZING		DP	WINDOW COLOUR	NFRC	WINDOW SHGC	WINDOW U-VALUE, (Btu/h-ft2-F)	COMMENTS
		WIDTH	HEIGHT	HEAD HEIGHT	SILL HEIGHT		WIDTH	HEIGHT				DESCRIPTION							
WS280	3	47"	47"	82"	35"	HORZ SLIDER	48"	48"	PVC	WHITE	6 5/8"	DUAL GLAZED, SOFTCOAT LOW E, ARGON	45	WHITE	0.20	0.3	0.239	BUG SCREEN	



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B	2024 -07-17	REISSUED FOR STATE APPROVAL	NM	
A	2024 -06-07	ISSUED FOR STATE APPROVAL	NM	

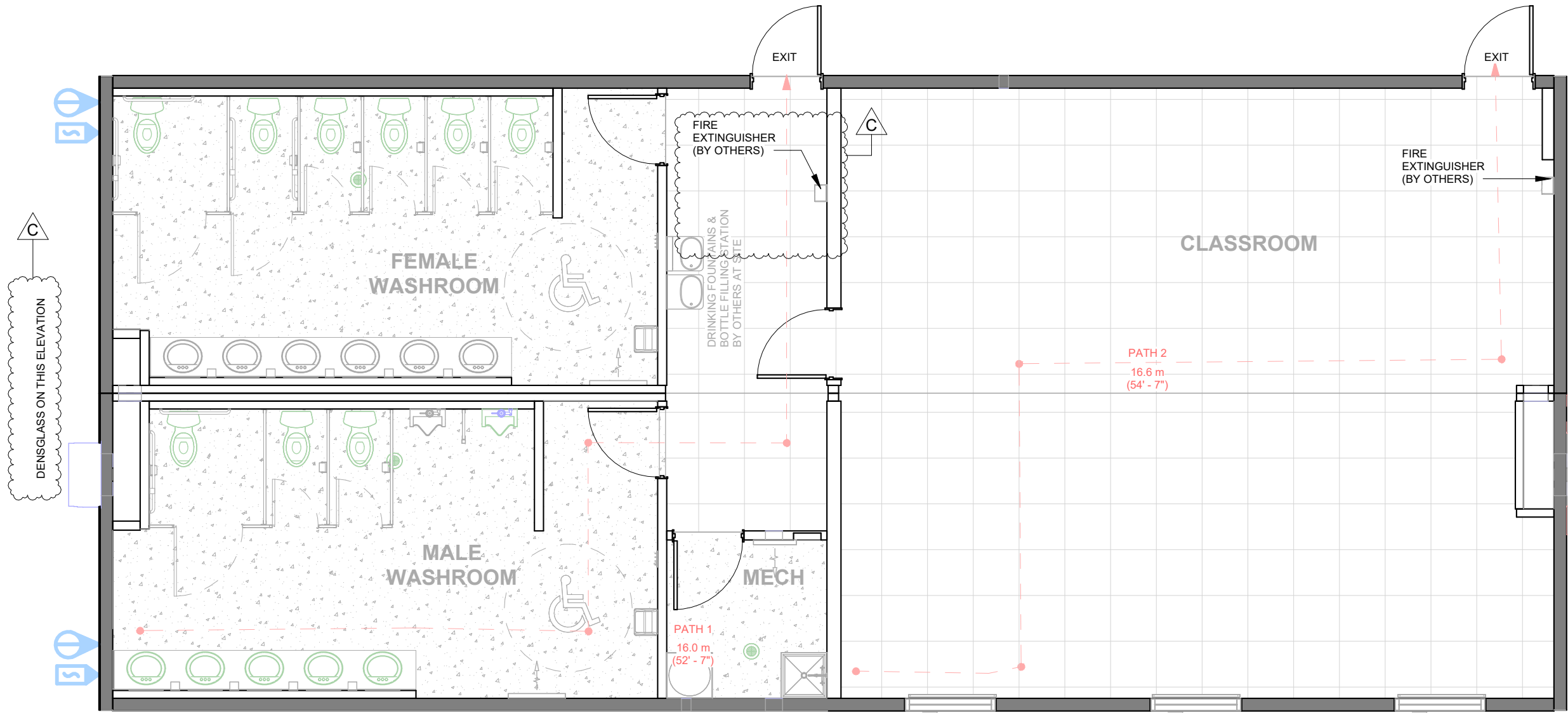
PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH

DRAWING TITLE: OVERALL DOOR & WINDOW SCHEDULE

CLIENT: CASCADE CHRISTIAN SCHOOL

PROJECT NO: 1107994  
DRAWING NO: AM020  
REV. #: C

PRPF20250508



1 OVERALL FIRE SAFETY PLAN  
3/16" = 1'-0"

PATH OF TRAVEL SCHEDULE		
PATH	ft	m
PATH 1	52' - 7 1/8"	16 m
PATH 2	54' - 7"	17 m

**KEY PLAN**

101
102

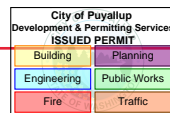
CRITICAL TRANSPORT DIMENSIONS  
L: 70' - 0"  
W: 15' - 11"  
H: 13' - 2"

PRPF20250508



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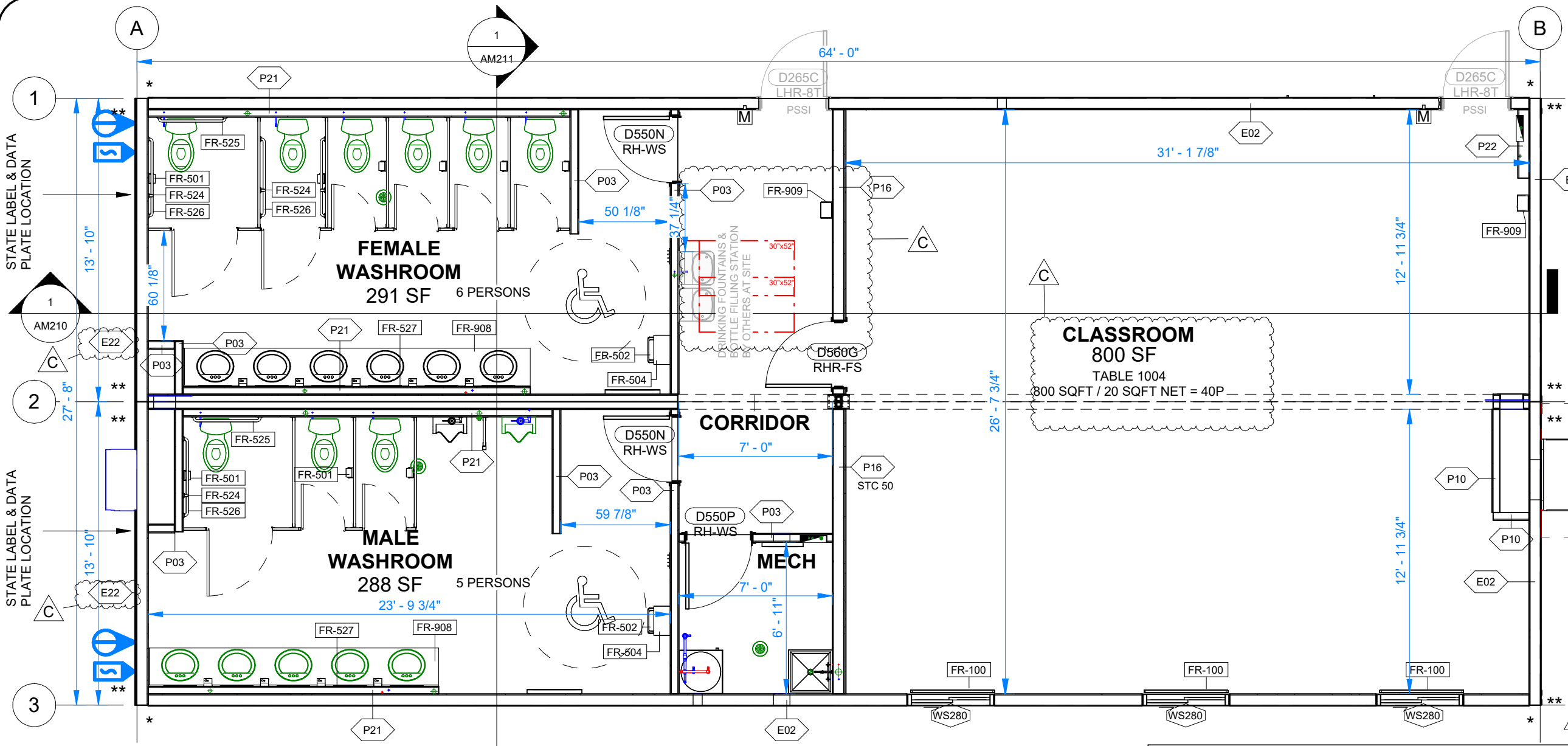
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PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH  
CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: OVERALL FIRE SAFETY PLAN		
PROJECT NO: 1107994	DRAWING NO: AM051	REV. # C



**DOOR SCHEDULE UNIT**

DOOR TAG	QTY	SCOPE
D265C	2	PSSI
D550N	2	
D550P	1	
D560G	1	
	6	

**WINDOW SCHEDULE UNIT**

WINDOW NO.	QTY
WS280	3

**NOTE:**  
 - FOR DOOR AND WINDOW SIZES REFER TO AM020.  
 - ALL TURNING CIRCLES ARE 67" RADIUS WITH 10" OF ALLOWABLE OVERLAP WITH PROVIDED KNEE SPACE BELOW AS PER WA 2017 A117.1 - 304.3.1 - CIRCULAR SPACE.  
 - TOTAL REQUIRED EGRESS CAPACITY: 0.2" PER PERSON X 40 PERSONS = 8".

**ENHANCED ACOUSTICAL NOTE:**  
 ENHANCED ACOUSTICS FOR CLASSROOM (SECTION 808, ANSI A117.1, 20217)  
 -REQUIRED: CLASSROOM VOLUME = 800 SQFT X 7'-10"H = 6264.16 CU.FT.  
 -REVERBERATION TIME COMPLIANCE TO 808.2.2 PRESCRIPTIVELY  
 NRC CARPET TILE: AT LEAST 0.15  
 NRC CEILING TILE RADAR ILLUSIONS: 0.55  
 NRC WALLS VC GYPSUM BOARD: 0.05 (SOURCE NRC RATINGS.COM)  
 CALCULATION: (0.15 X 800) + (0.55 X 800) + (0.05 X 931.46) = 606.58  
 VOLUME/12 = 6264.16/12 = 522.01  
 NRC TOTAL >= VOLUME/12  
 606.58 IS GREATER OR EQUAL 522.01.  
 -AMBIENT SOUND LEVEL (808.3): MEASURED IN ACCORDANCE WITH 808.3. IN UNOCCUPIED CLASSROOM.  
 808.3.1, 808.3.2. SOUND SOURCES OUTSIDE AND INSIDE CLASSROOM: AMBIENT NOISE SHALL NOT EXCEED 35DB(A) AND 55DB(C)  
 -BARD PLENUM PARTITION TO MEET NC 35 MEASUREMENT AND VERIFICATION REQUIRED AND PERFORMED ON SITE BY OTHERS.

1 OVERALL FLOOR PLAN  
 3/16" = 1'-0"

OVERALL - ROOM FINISH SCHEDULE

ROOM	FLOOR FINISH	BASE FINISH	WALL FINISH	WALL TRIM	CEILING FINISH	CEILING HEIGHT
CLASSROOM	COI CARPET, COLOR: CLEVERISH	4" RUBBER BASE, COLOR: COI / ROPPE BLACK	VC CLAD GYPSUM NO BATTENS, COLOR: DLETA MOONLIGHT	VC BATTEN @ DOORS, WINDOWS, CORNERS, DELTA MOONLIGHT	24X48 T-BAR CEILING W/COLOR WHITE, RADAR 2742 ILLUSION 2/24 SLT	7' - 10"
CORRIDOR	COI CARPET, COLOR: CLEVERISH	4" RUBBER BASE, COLOR: COI / ROPPE BLACK	VC CLAD GYPSUM NO BATTENS, COLOR: DLETA MOONLIGHT	VC BATTEN @ DOORS, WINDOWS, CORNERS, DELTA MOONLIGHT	24X48 T-BAR CEILING W/COLOR WHITE, RADAR 2742 ILLUSION 2/24 SLT	7' - 10"
FEMALE WASHROOM	COMMERCIAL GRADE VINYL ROLL GOODS (TARKETT STANDARD PLUS, COLOUR:21003 494)	4" RUBBER BASE, COLOR: COI / ROPPE BLACK	VC CLAD GYPSUM NO BATTENS, COLOR: DLETA MOONLIGHT- FRP ON PLUMBING WALL	VC BATTEN @ DOORS, WINDOWS, CORNERS, DELTA MOONLIGHT	24X48 T-BAR CEILING W/COLOR WHITE, RADAR 2742 ILLUSION 2/24 SLT	7' - 8"
MALE WASHROOM	COMMERCIAL GRADE VINYL ROLL GOODS (TARKETT STANDARD PLUS, COLOUR:21003 494)	4" RUBBER BASE, COLOR: COI / ROPPE BLACK	VC CLAD GYPSUM NO BATTENS, COLOR: DLETA MOONLIGHT- FRP ON PLUMBING WALL	VC BATTEN @ DOORS, WINDOWS, CORNERS, DELTA MOONLIGHT	24X48 T-BAR CEILING W/COLOR WHITE, RADAR 2742 ILLUSION 2/24 SLT	7' - 8"
MECH	COMMERCIAL GRADE VINYL ROLL GOODS (TARKETT STANDARD PLUS, COLOUR:21003 494)	4" RUBBER BASE, COLOR: COI / ROPPE BLACK	VC CLAD GYPSUM NO BATTENS, COLOR: DLETA MOONLIGHT	VC BATTEN @ DOORS, WINDOWS, CORNERS, DELTA MOONLIGHT	24X48 T-BAR CEILING W/COLOR WHITE, RADAR 2742 ILLUSION 2/24 SLT	8' - 0 1/4"

FURNITURE AND EQUIPMENT SCHEDULE

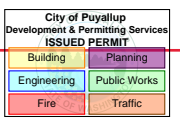
TAG	QTY	DESCRIPTION
FR-100	3	VINYL CORDLESS MINI BLINDS 45"W X 47"H COLOR: WHITE
FR-500	9	SOAP DISPENSER
FR-501	9	SINGLE ROLL TOILET PAPER HOLDER
FR-502	2	WALL MOUNTED WASTE DISPOSAL BIN - 7" FROM BOTTOM TO FINISHED FLOOR
FR-503	2	COAT HOOK BOARD - 4 HOOKS -46" AFF
FR-504	2	WALL MOUNTED PAPER TOWEL DISPENSER - 46" FROM BOTTOM TO FINISHED FLOOR
FR-524	4	18" GRAB BAR, BARRIER FREE WASHROOM
FR-525	2	36" GRAB BAR, BARRIER FREE WASHROOM
FR-526	4	42" GRAB BAR, BARRIER FREE WASHROOM
FR-527	11	MIRROR BOBRICK B-165 SIZE: 18"W x 36"H
FR-908	2	ADA LAVATORY COUNTERTOP. 4" BACKSPASH. HQ LAMINATE COLOR WILSONART COTE D'AZURE
FR-909	2	FIRE EXTINGUISHER - BY OTHERS

CRITICAL TRANSPORT DIMENSIONS  
 L: 70' - 0"  
 W: 15' - 11"  
 H: 13' - 2"



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B	2025-04-22	RE-ISSUED FOR STATE APPROVAL	NM	AH
A	2024-06-07	ISSUED FOR STATE APPROVAL	NM	

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH  
 CLIENT: CASCADE CHRISTIAN SCHOOL

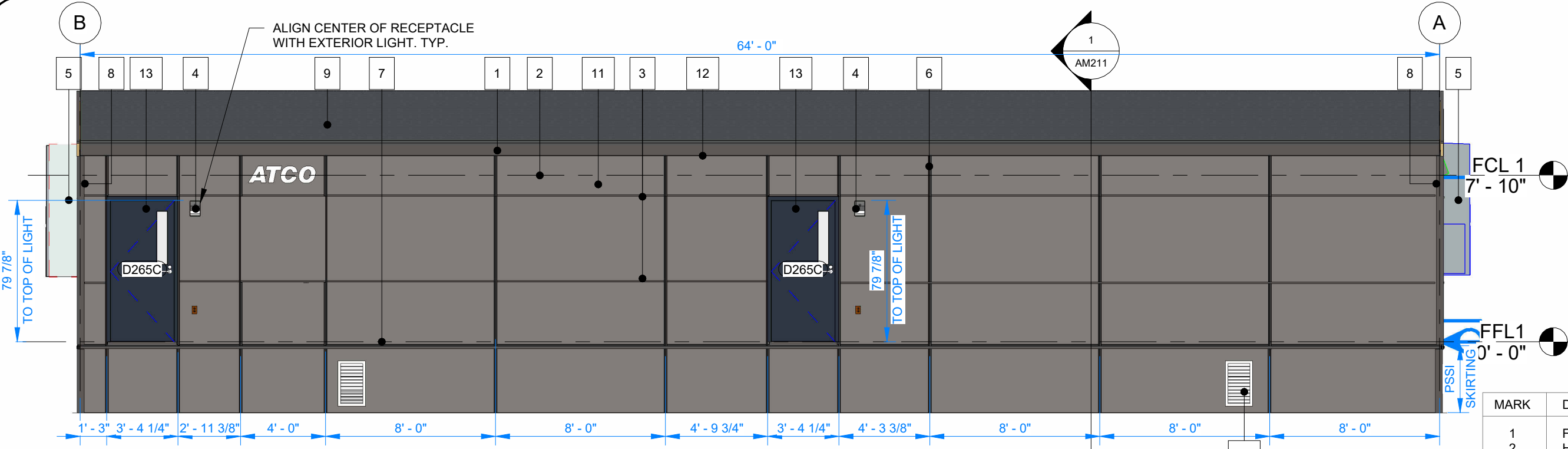
DRAWING TITLE: OVERALL FLOOR PLAN

PROJECT NO:	DRAWING NO:	REV. #
1107994	AM101	C

PRPF20250508

PLOT DATE: 2025-05-26 10:34:38 AM

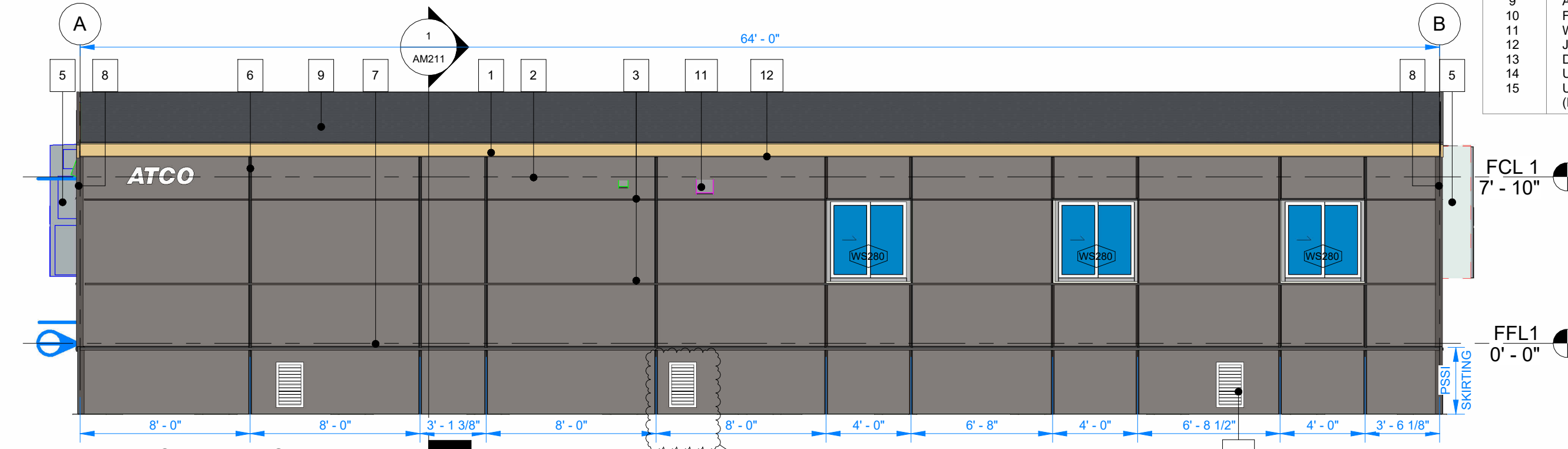
11x17 Titleblock R2024.1



1 FRONT ELEVATION  
3/16" = 1'-0"

NOTE:  
- COLOR MATCH SCREWS  
- SEE AM 300 FOR TYPICAL SIDING FASTENING PATTERN

MARK	DESCRIPTION
1	FASCIA - CHARCOAL
2	HARDIE PANEL - AGED PEWTER
3	MODIFIED DRIP CAP - CHARCOAL
4	EXTERIOR LIGHT
5	BARD UNIT
6	DOUBLE J-TRIM - CHARCOAL
7	STARTER - CHARCOAL
8	OUTSIDE CORNER - CHARCOAL
9	ASPHALT ROOF SHINGLE - ESTATE GRAY
10	FLAT STOCK - REGENT GREY
11	WALL CAP
12	J TRIM - CHARCOAL
13	DOOR - ANCHORS AWEIGH
14	UNDER-FLOOR VENT (MIN.14" x 24") - PSSI
15	UNDER-FLOOR ACCESS HATCH (MIN.12"X18")- PSSI



2 BACK ELEVATION  
3/16" = 1'-0"

CRITICAL TRANSPORT DIMENSIONS  
L: 70'-0"  
W: 15'-11"  
H: 13'-2"

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Planning

Engineering

Public Works

Fire

Traffic

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C	2025-05-14	RE-ISSUED FOR STATE APPROVAL	NM	AH
B	2024-10-28	RE-ISSUED FOR STATE APPROVAL	NM	
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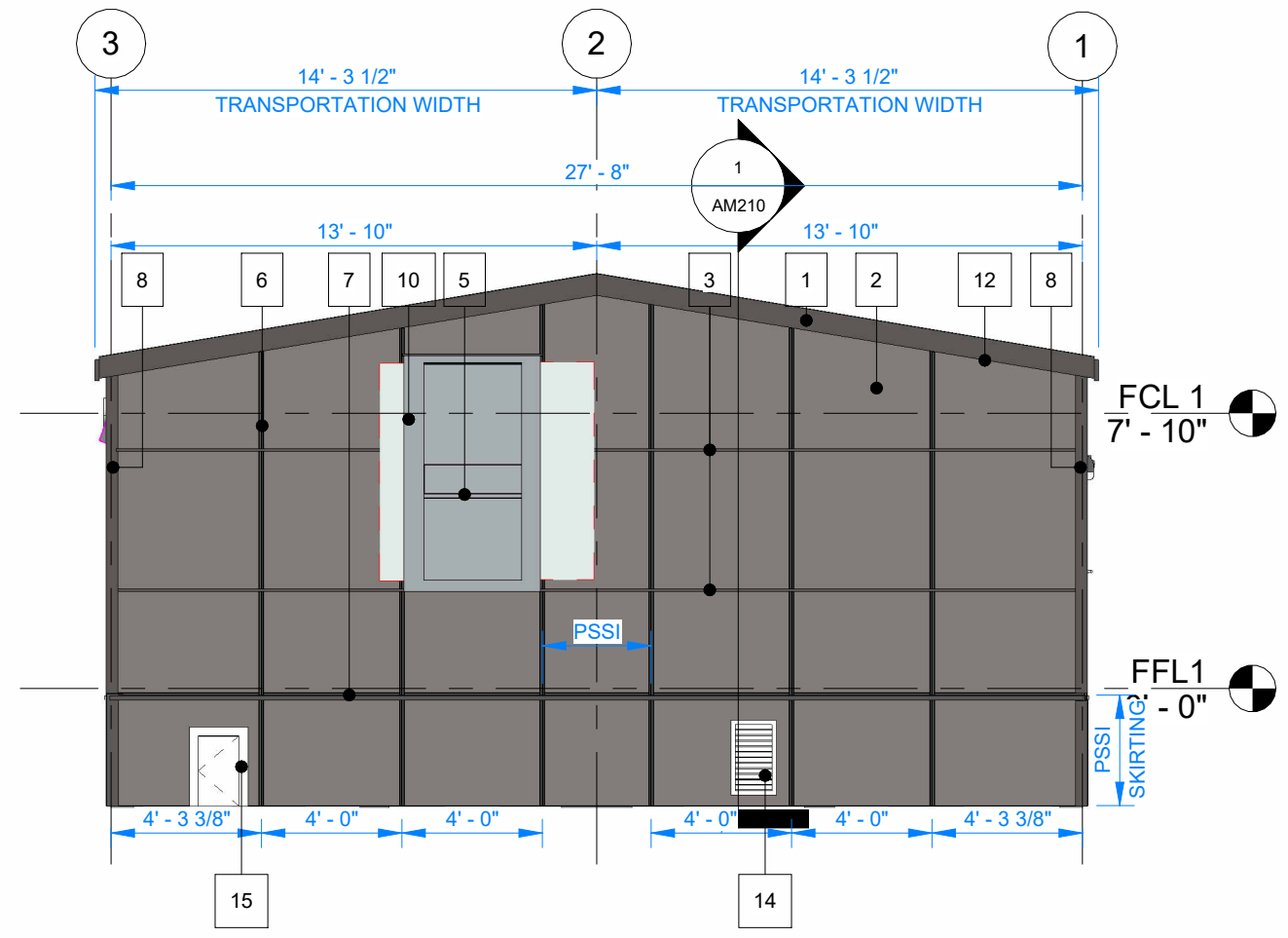
PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH  
CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: OVERALL BUILDING ELEVATION		
PROJECT NO: 1107994	DRAWING NO: AM200	REV. # C

PLOT DATE: 2025-05-26 10:35:33 AM

R2024.1

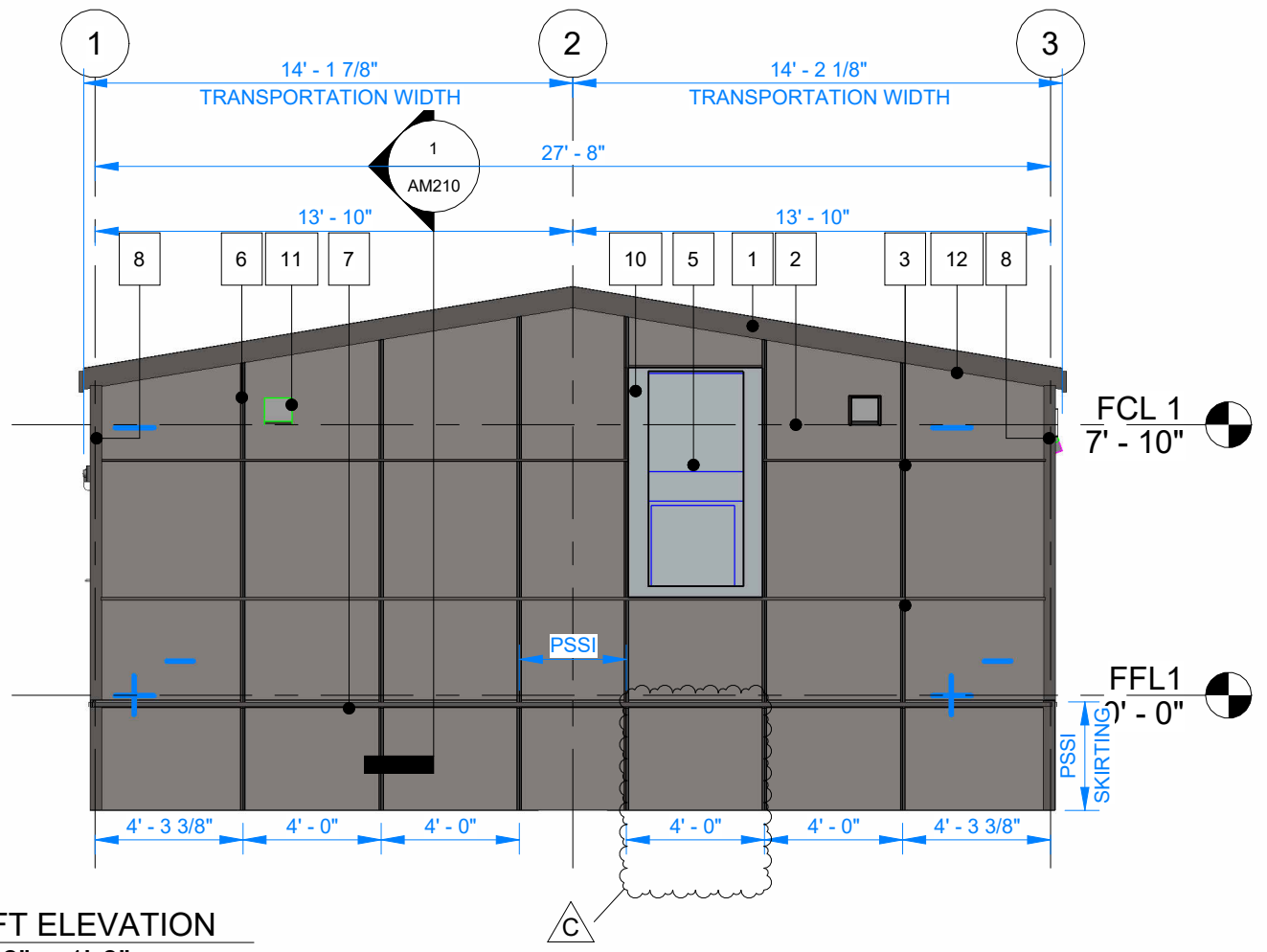
11x17 Titleblock



1 RIGHT ELEVATION  
3/16" = 1'-0"

MARK	DESCRIPTION
1	FASCIA - CHARCOAL
2	HARDIE PANEL - AGED PEWTER
3	MODIFIED DRIP CAP - CHARCOAL
4	EXTERIOR LIGHT
5	BARD UNIT
6	DOUBLE J-TRIM - CHARCOAL
7	STARTER - CHARCOAL
8	OUTSIDE CORNER - CHARCOAL
9	ASPHALT ROOF SHINGLE - ESTATE GRAY
10	FLAT STOCK - REGENT GREY
11	WALL CAP
12	J TRIM - CHARCOAL
13	DOOR - ANCHORS AWEIGH
14	UNDER-FLOOR VENT (MIN.14" x 24") - PSSI
15	UNDER-FLOOR ACCESS HATCH (MIN.12"X18")- PSSI

**NOTE:**  
- COLOR MATCH SCREWS  
- SEE AM 300 FOR TYPICAL SIDING FASTENING PATTERN



2 LEFT ELEVATION  
3/16" = 1'-0"

PRPF20250508

CRITICAL TRANSPORT DIMENSIONS  
L: 70'-0"  
W: 15'-11"  
H: 13'-2"



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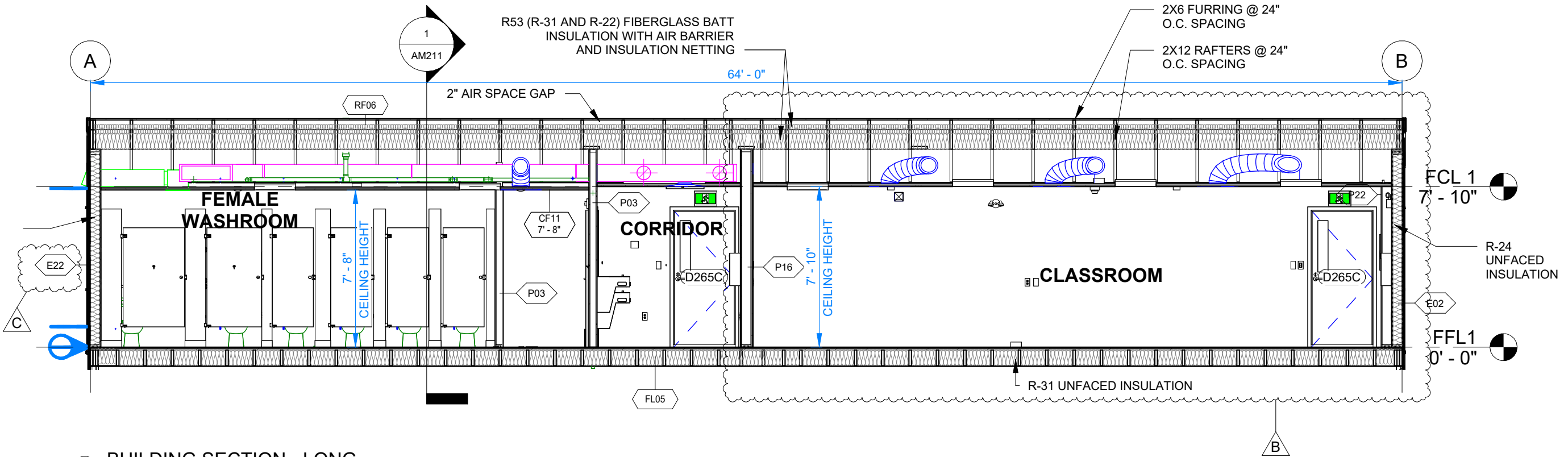
PROJECT:	28x64 ASL USA SR FLEET OFFICE WASH
CLIENT:	CASCADE CHRISTIAN SCHOOL

DRAWING TITLE:		OVERALL BUILDING ELEVATION	
PROJECT NO:	1107994	DRAWING NO:	AM201
REV. #	C		

PLOT DATE: 2025-05-14 4:28:28 PM

R2024.1

11x17 Titleblock



1 BUILDING SECTION - LONG  
3/16" = 1'-0"

NOTE:  
FOR ROOF, WALL AND FLOOR ASSEMBLY DETAILS REFER TO AM010.

**AIR BARRIER SYSTEM:**

**ROOF:** TYVEK AT UNDER SIDE OF ROOF RAFTERS. (EXTEND MEMBRANE 6" BEYOND OUTER EDGE OF ROOF RAFTERS TO ALLOW SEALING TO MEMBRANE ON EXTERIOR ON WALLS, LAP JOINTS TO MAINTAIN WATER BARRIER AT EXTERIOR, USE APPROVED SEAM TAPE)(PROVIDE FLAP OF MEMBRANE AT BUILDING MATE LINE TO ALLOW FOR SITE SEALING ACROSS MATE LINE).

**WALLS:** TYVEK COMMERCIAL AS WEATHER RESISTIVE BARRIER AND AIR BARRIER, SEAL AROUND WINDOWS, DOORS AND PENETRATIONS, INSTALL AS PER MANUFACTURER'S INSTRUCTION, SEAL LAPS WITH WRB TAPE, EXTEND TYVEK AROUND CORNERS OF MATING WALLS

**FLOOR:** TONGUE AND GROVE PLYWOOD, DOUBLE LAYER WITH OFFSET JOINTS, SEAMS TO BE FILLED AND CAULKED

**ROOF VENT CALCULATION (IBC 2021 SECTION 1202.2.1.VENTILATION):**

**VENTING REQUIRED:**  
ROOF AREA 1773 SQ.FT /150 = 11.82 SQ.FT                      11.82 x 144 = 1702.08 SQ.IN REQUIRED

**VENTING PROVIDED:**  
RIDGE CAP VENT :    11 SQ.IN PER LINEAR FEET : 11 X 64=704 SQ.IN  
64 BAYS BETWEEN RAFTERS :    64 x 11 1/2" x 1 1/2" = 1104 SQ.IN

**FOUNDATION VENT CALCULATION: (IBC 2021 SECTION 1202. VENTILATION):**

**VENTING REQUIRED:**  
(27' 8 1/2 x 64') /150 = 1773/150 = 11.82 SQ.FT                      11.82x 144 = 1703 SQ.IN REQUIRED

**VENTING PROVIDED:**  
6 SCREENED FOUNDATION VENT :    6 x 336 SQ.IN = 2016 SQ.IN  
NOTE : VENTS ARE 14" x 24" EACH (336 SQ.IN)

CRITICAL TRANSPORT DIMENSIONS  
L: 70' - 0"  
W: 15' - 11"  
H: 13' - 2"

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B	2025-04-22	RE-ISSUED FOR STATE APPROVAL	NM	AH
A	2024 -06-07	ISSUED FOR STATE APPROVAL	NM	

PROJECT:  
28x64 ASL USA SR FLEET  
OFFICE WASH

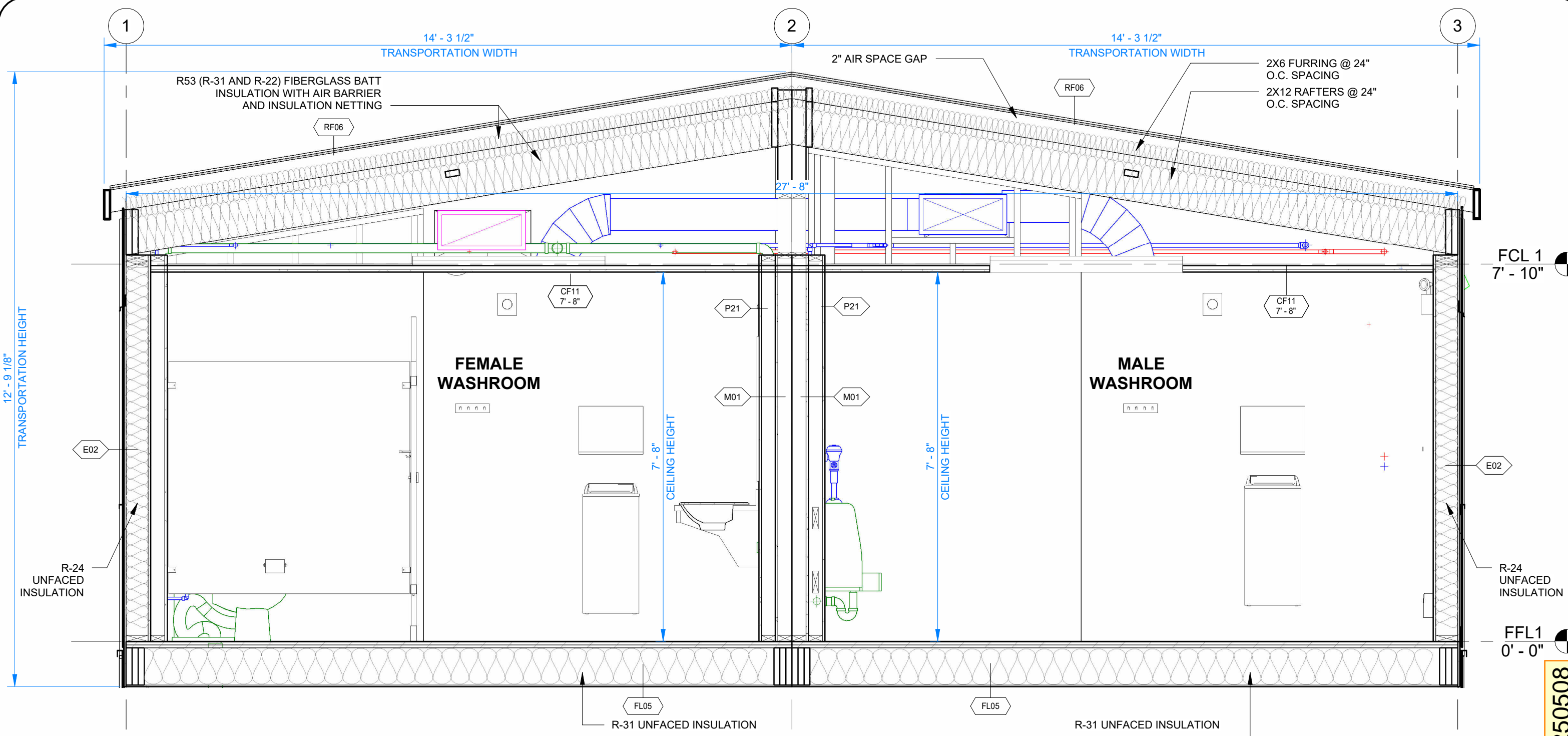
CLIENT:  
CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: OVERALL BUILDING SECTIONS		
PROJECT NO: 1107994	DRAWING NO: AM210	REV. # C

PLOT DATE: 2024-07-18 9:43:19 AM

R2024.1

11x17 Titleblock



1 BUILDING SECTION - SHORT  
1/2" = 1'-0"

NOTE:  
FOR ROOF, WALL AND FLOOR ASSEMBLY DETAILS REFER  
TO AM010.

FCL 1  
7' - 10"

FFL1  
0' - 0"

CRITICAL  
TRANSPORT  
DIMENSIONS  
L: 70' - 0"  
W: 15' - 11"  
H: 13' - 2"

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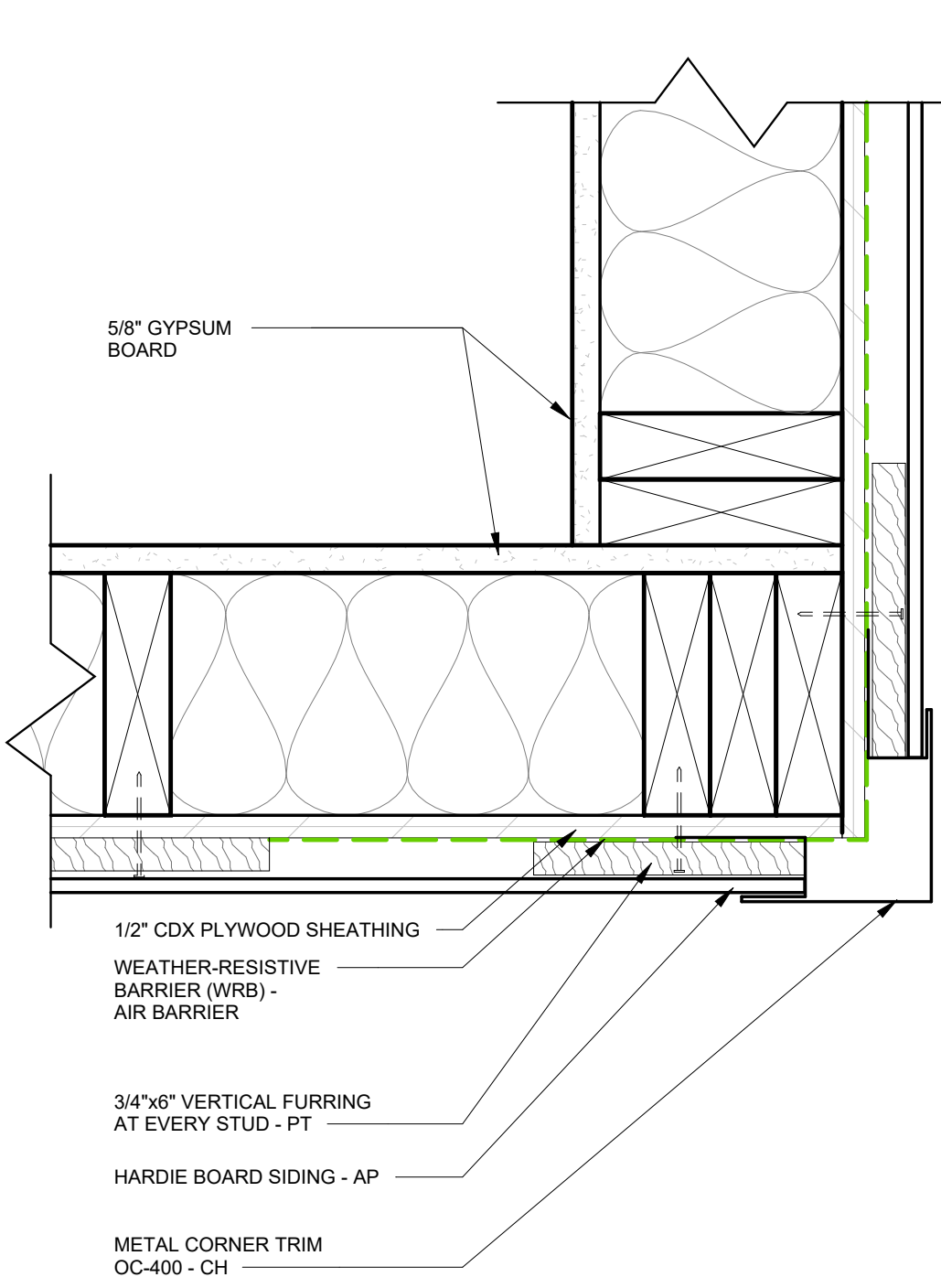
City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

REV.	DATE	DESCRIPTION	BY	CHK/APR
0	2024-07-17	ISSUED FOR CONSTRUCTION	NM	AH
B	2024-07-17	REISSUED FOR STATE APPROVAL	NM	
A	2024-06-07	ISSUED FOR STATE APPROVAL	NM	

PROJECT:  
28x64 ASL USA SR FLEET  
OFFICE WASH

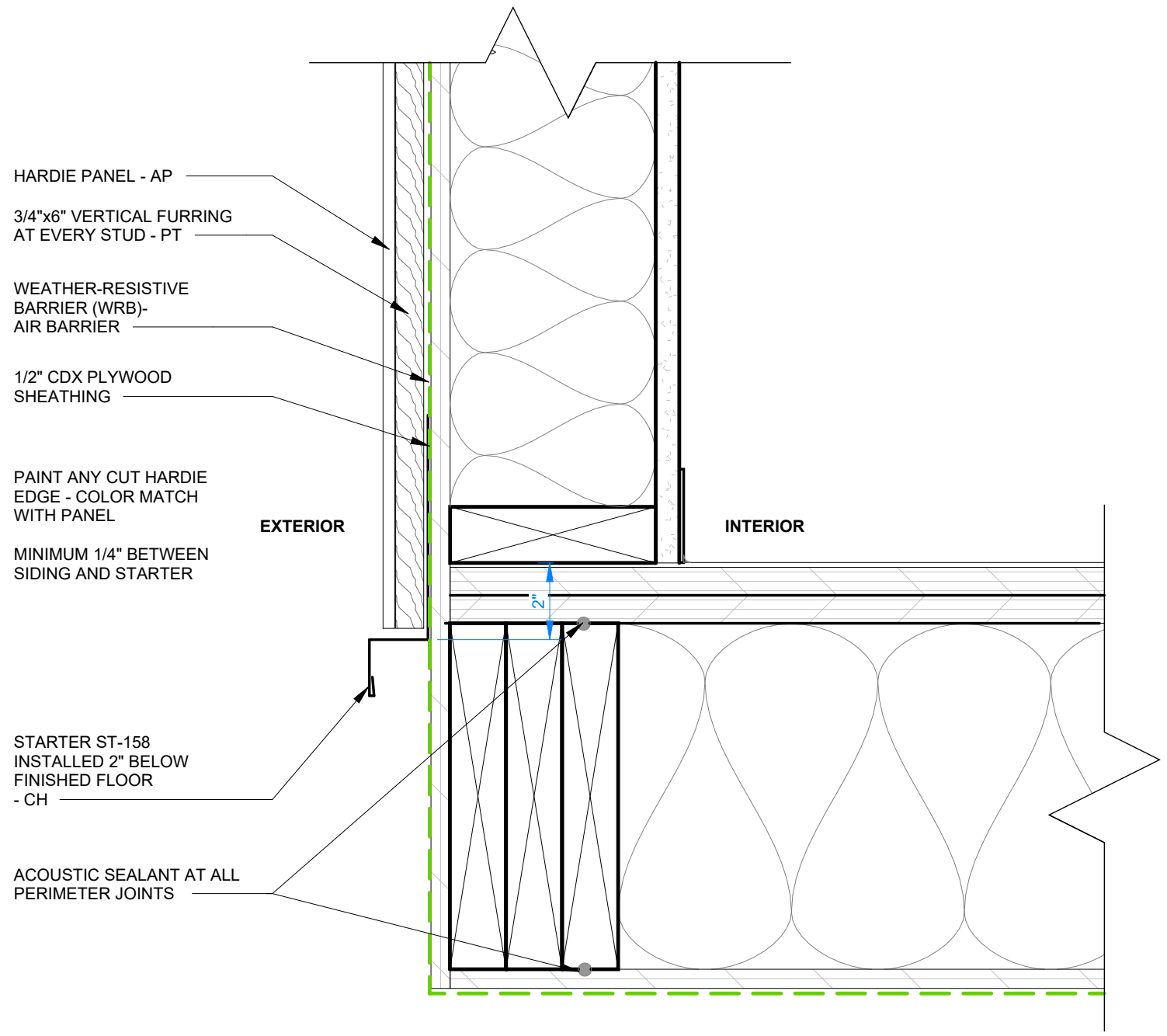
CLIENT:  
CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: OVERALL BUILDING SECTIONS		
PROJECT NO: 1107994	DRAWING NO: AM211	REV. # 0



1 HARDIE BOARD SIDING CORNER1  
3" = 1'-0"

C



2 HARDIE PANEL DETAIL AT FLOOR1  
3" = 1'-0"

SIMILAR DETAILS AS SHOWN ON THIS PAGE APPLY TO THE LEFT/  
EAST SIDE FACADE (RESTROOM WALL) WITH ADDING DENSGLASS  
AS PER WALL ASSEMBLY E22 ON TOP OF SHEATHING.

PRPF20250508



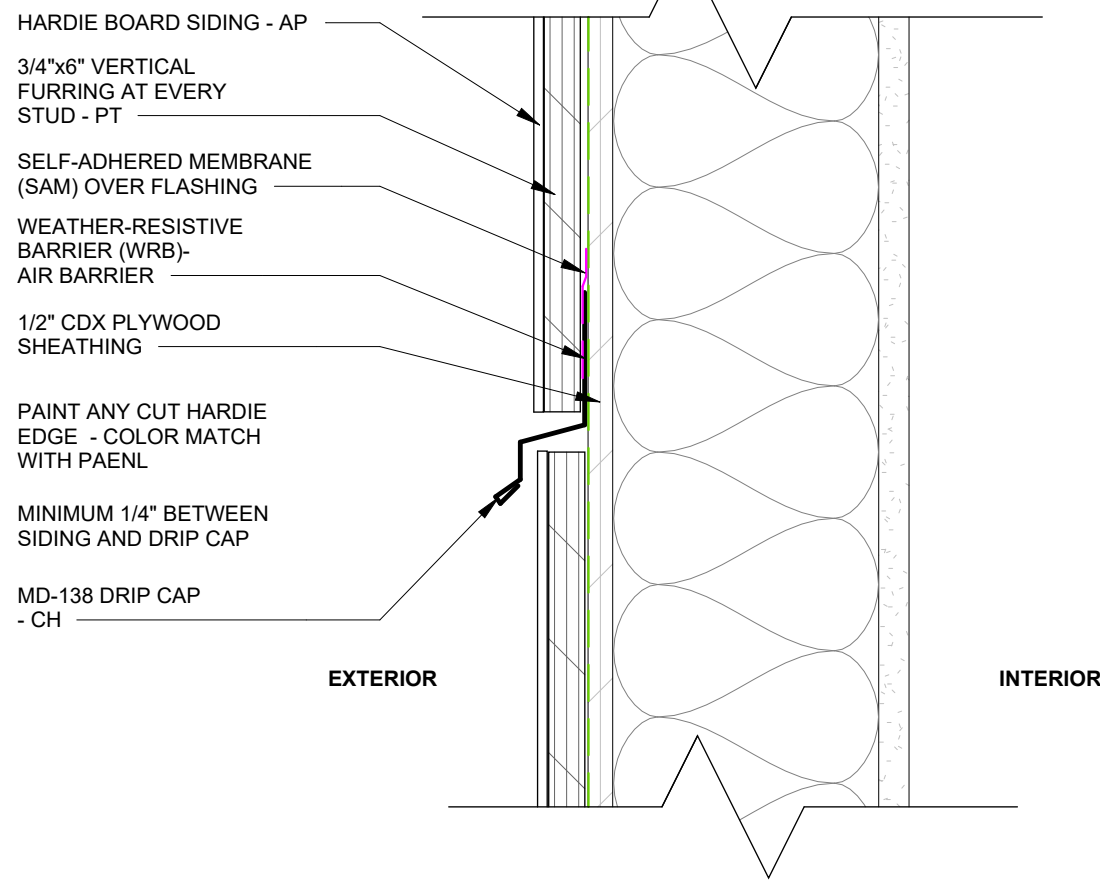
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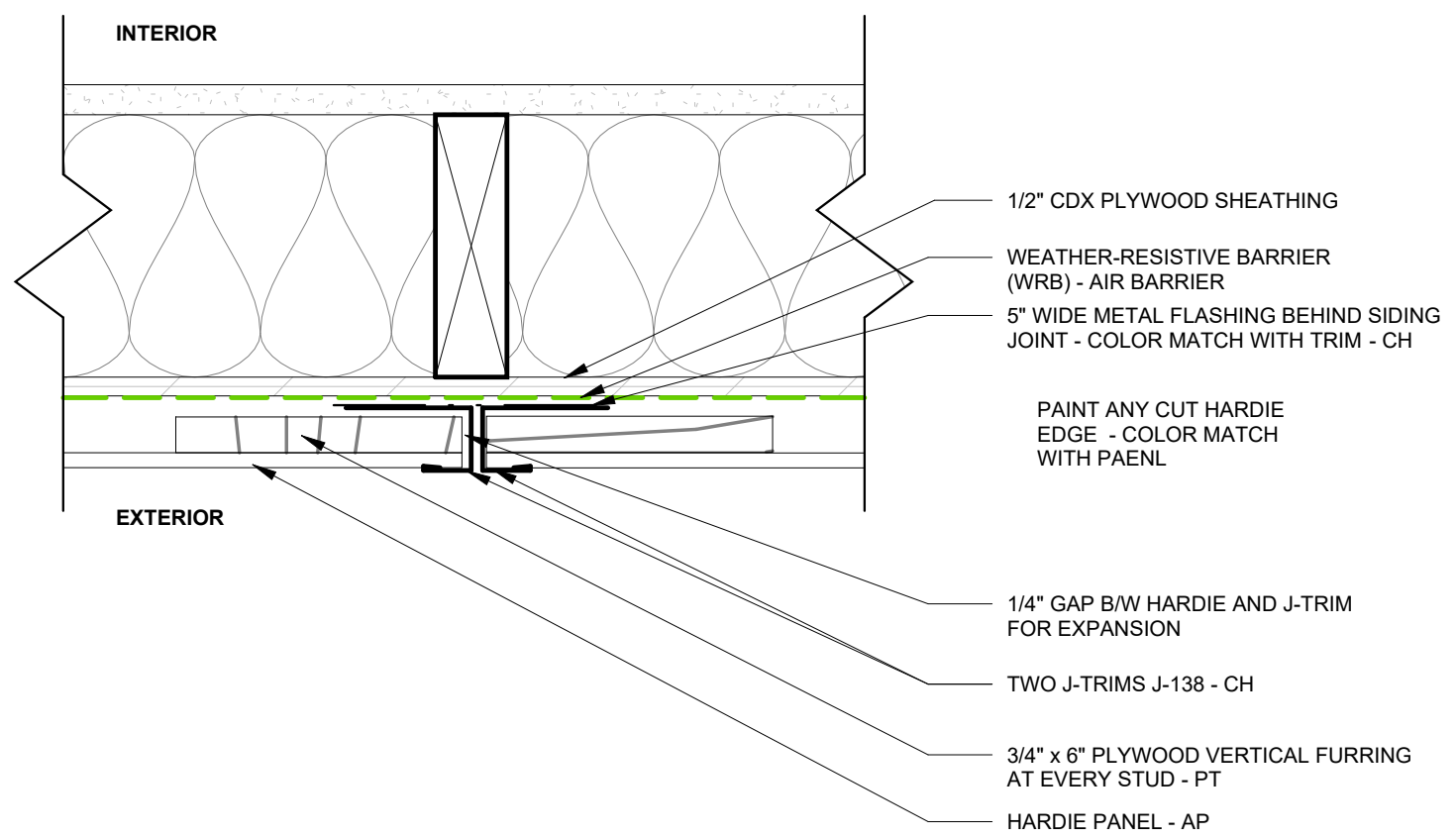
REV.	DATE	DESCRIPTION	BY	CHK/APR
C	2025-05-14	RE-ISSUED FOR STATE APPROVAL	NM	AH
B	2024 -07-17	REISSUED FOR STATE APPROVAL	NM	
A	2024 -06-07	ISSUED FOR STATE APPROVAL	NM	

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH  
CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: EXTERIOR FINISH DETAILS - CLADDING  
PROJECT NO: 1107994  
DRAWING NO: AM301  
REV. #: C



1 BOARD TO BOARD SECTION DETAIL 1  
3" = 1'-0"



2 HARDIE PANEL TRANSITION PLAN  
3" = 1'-0"

C

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EAST SIDE FACADE (RESTROOM WALL) WITH ADDING DENSGLASS  
AS PER WALL ASSEMBLY E22 ON TOP OF SHEATHING.

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APPROVED BY THE STATE**

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

Building

Planning

Engineering

Public Works

Fire

Traffic

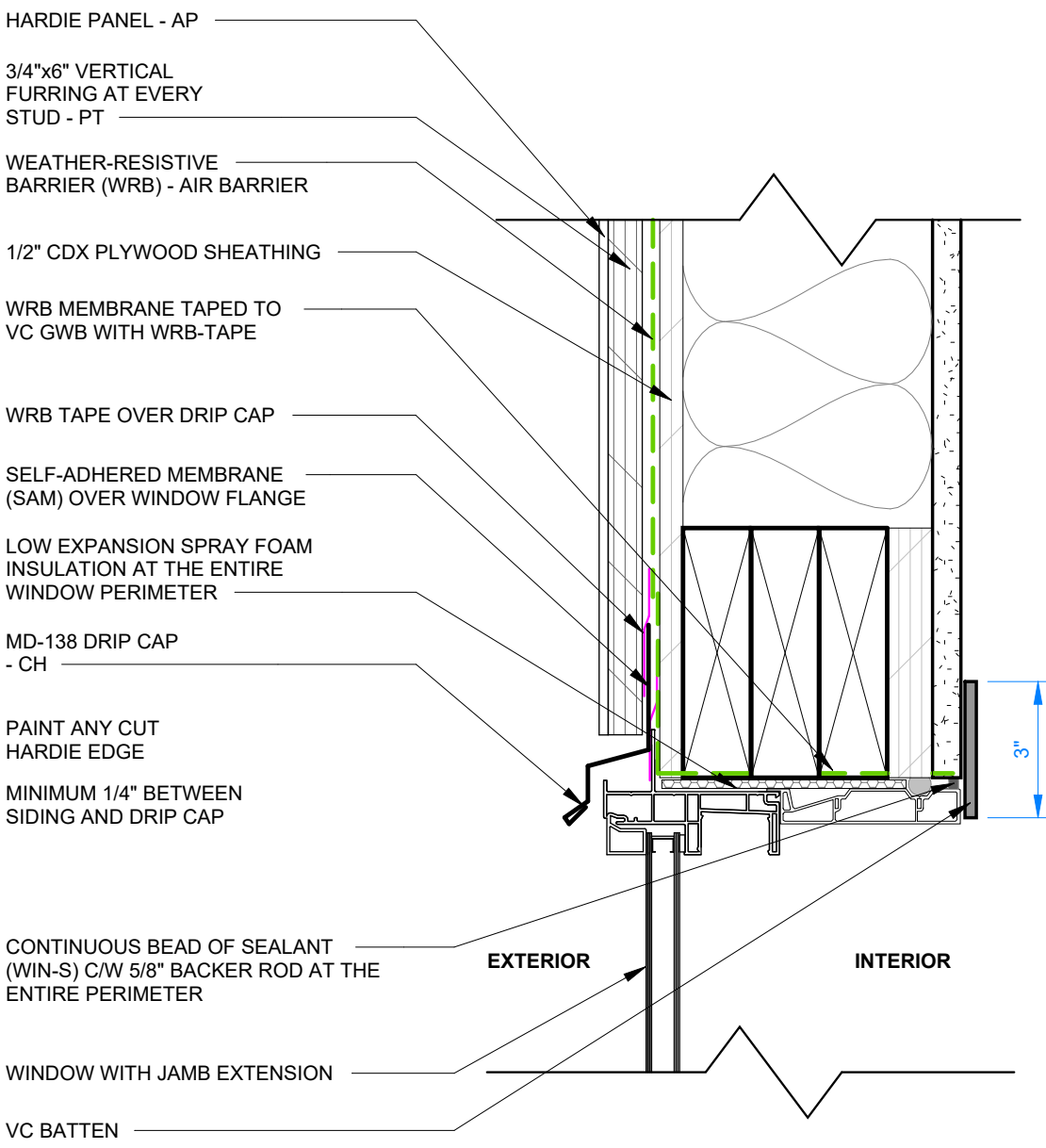
REV.	DATE	DESCRIPTION	BY	CHK/APR
C	2025-05-14	RE-ISSUED FOR STATE APPROVAL	NM	AH
B	2024 -07-17	REISSUED FOR STATE APPROVAL	NM	
A	2024 -06-07	ISSUED FOR STATE APPROVAL	NM	

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH

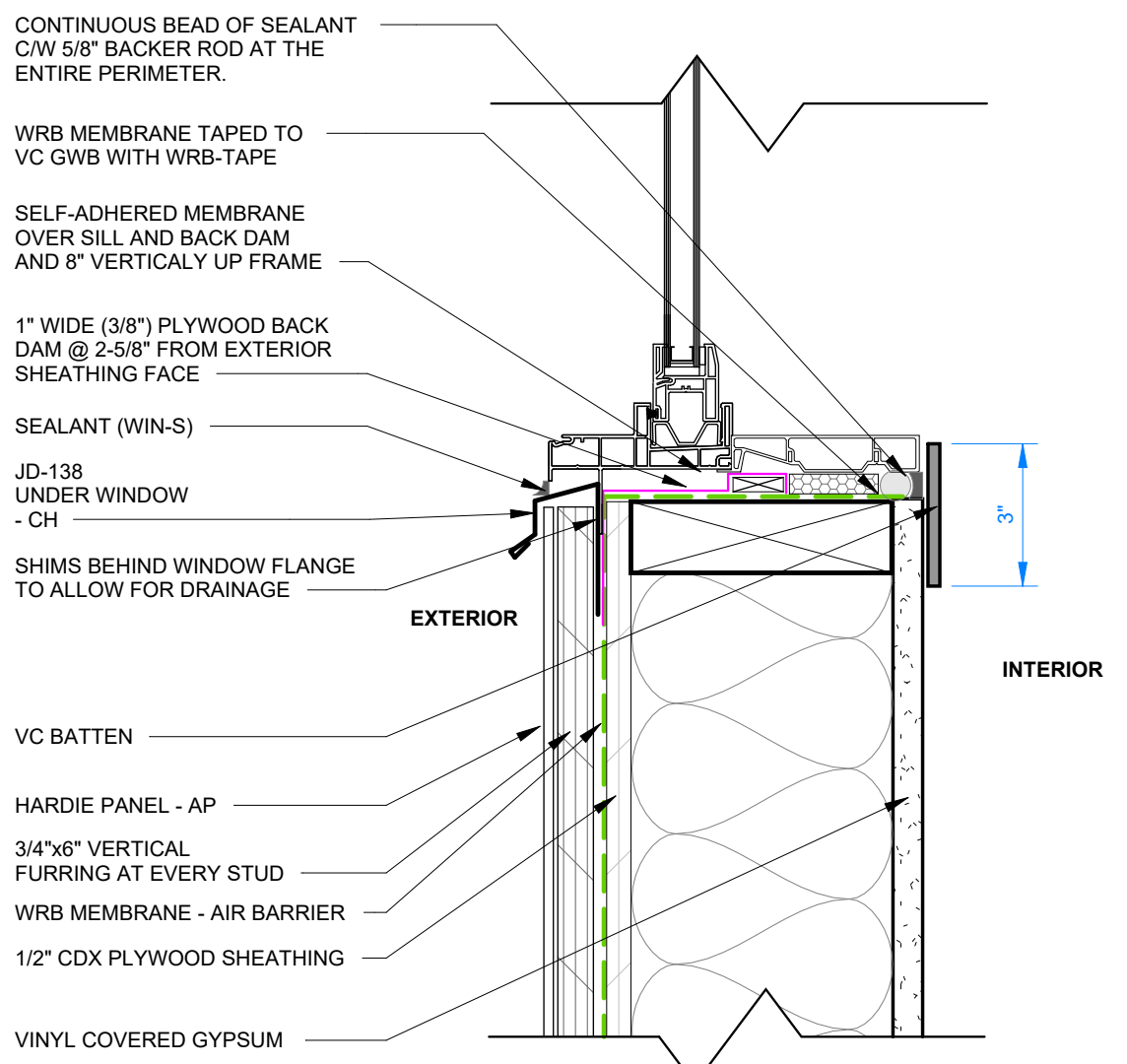
CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: EXTERIOR FINISH DETAILS - CLADDING

PROJECT NO: 1107994    DRAWING NO: AM302    REV. # C



1 WINDOW HEADER DETAIL  
3" = 1'-0"



2 WINDOW SILL DETAIL  
3" = 1'-0"

SIMILAR DETAILS AS SHOWN ON THIS PAGE APPLY TO THE LEFT/  
EAST SIDE FACADE (RESTROOM WALL) WITH ADDING DENSGLASS AS  
PER WALL ASSEMBLY E22 ON TOP OF SHEATHING.

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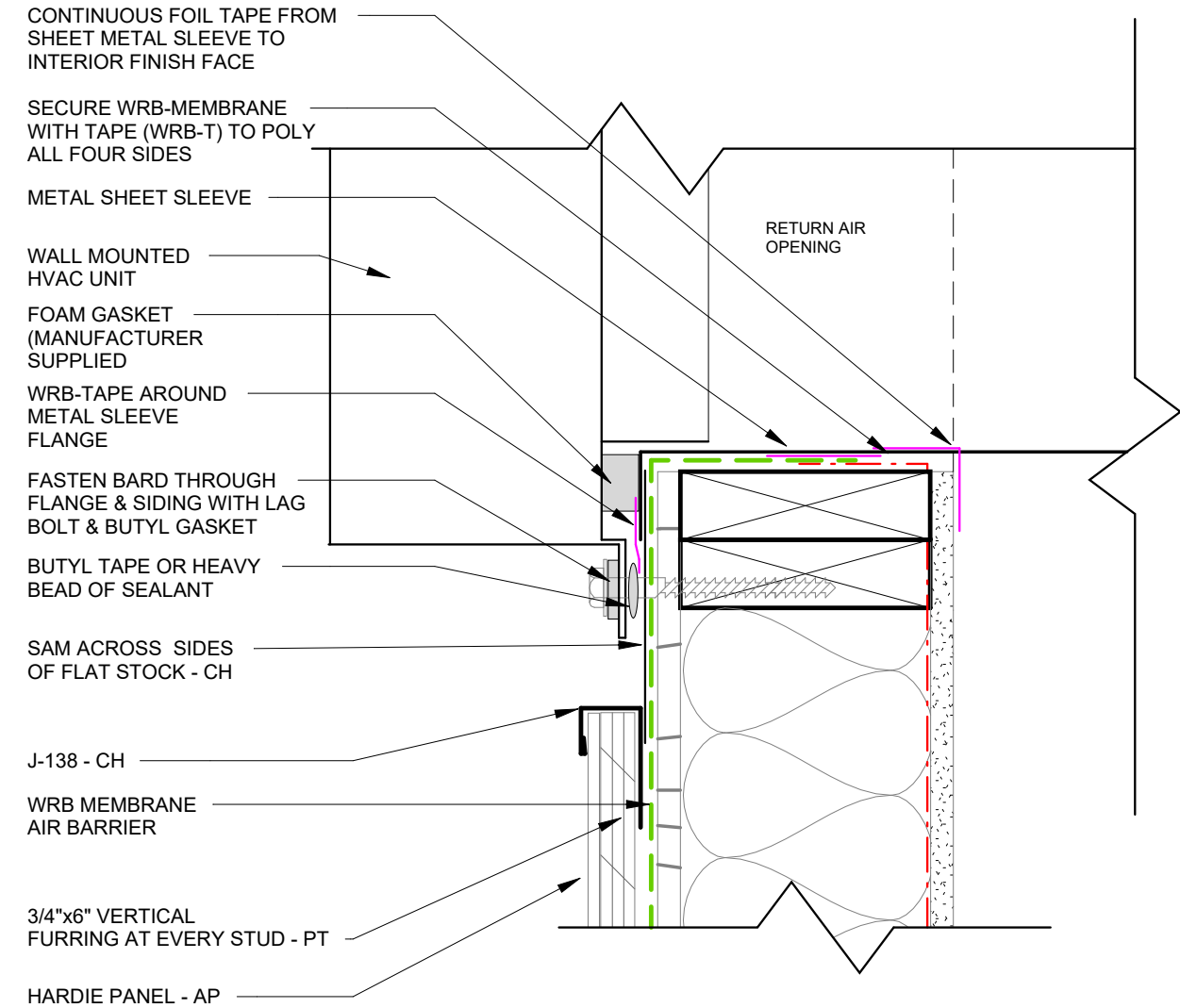
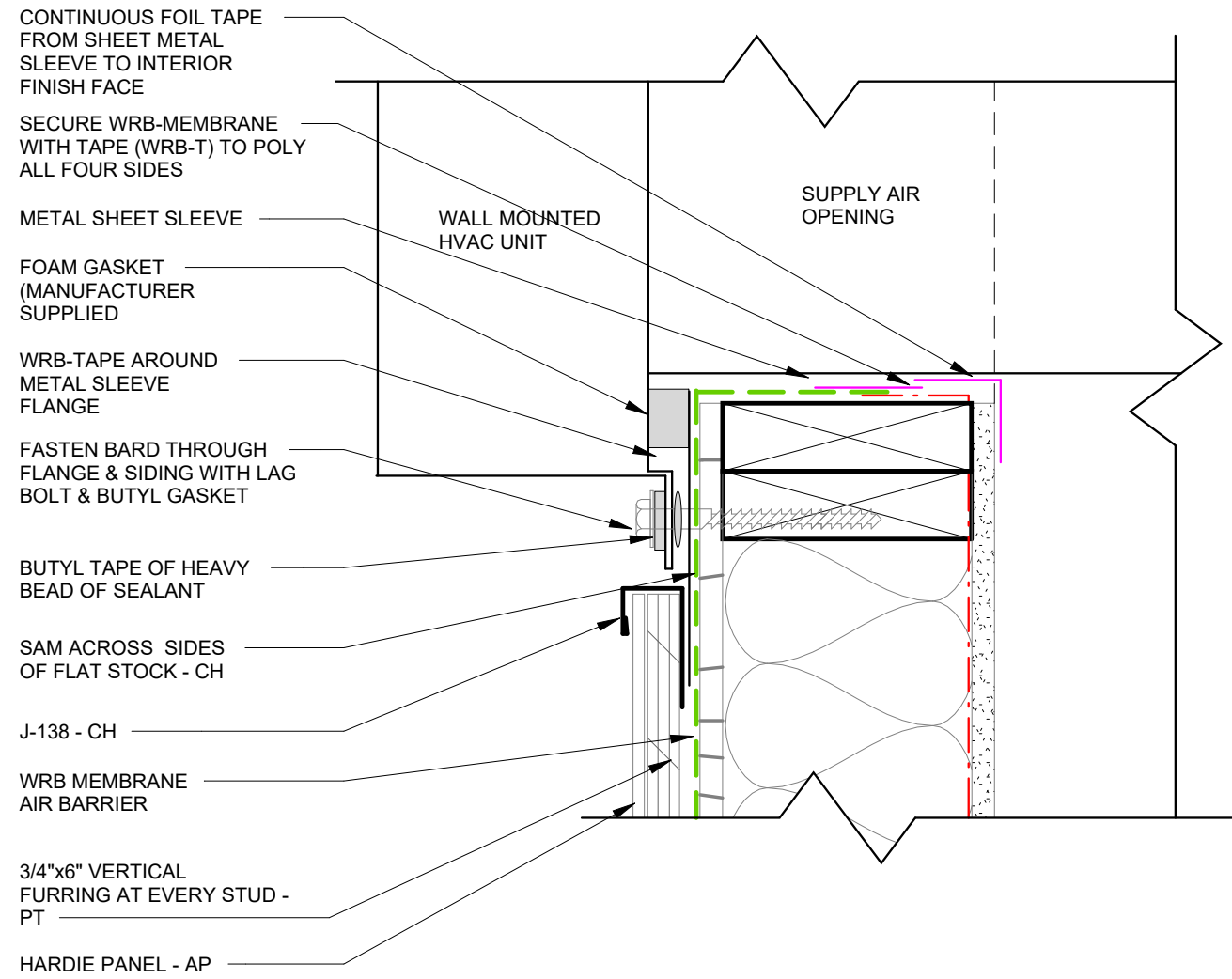
**REFERENCE DRAWING APPROVED BY THE STATE**

REV.	DATE	DESCRIPTION	BY	CHK/APR
C	2025-05-14	RE-ISSUED FOR STATE APPROVAL	NM	AH
B	2024 -07-17	REISSUED FOR STATE APPROVAL	NM	
A	2024 -06-07	ISSUED FOR STATE APPROVAL	NM	

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH  
CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: EXTERIOR FINISH DETAILS - CLADDING  
PROJECT NO: 1107994  
DRAWING NO: AM303  
REV. #: C

SIMILAR DETAILS AS SHOWN ON THIS PAGE APPLY TO THE LEFT/EAST SIDE FACADE (RESTROOM WALL) WITH ADDING DENSGLOSS AS PER WALL ASSEMBLY E22 ON TOP OF SHEATHING.



1 JAMB SECTION - SUPPLY AIR  
3" = 1'-0"

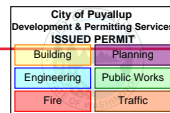
2 JAMB SECTION - RETURN AIR  
3" = 1'-0"

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REV.	DATE	DESCRIPTION	BY	CHK/APR
A	2025-05-14	ISSUED FOR STATE APPROVAL	NM	AH

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH

DRAWING TITLE: EXTERIOR FINISH DETAILS - BARD

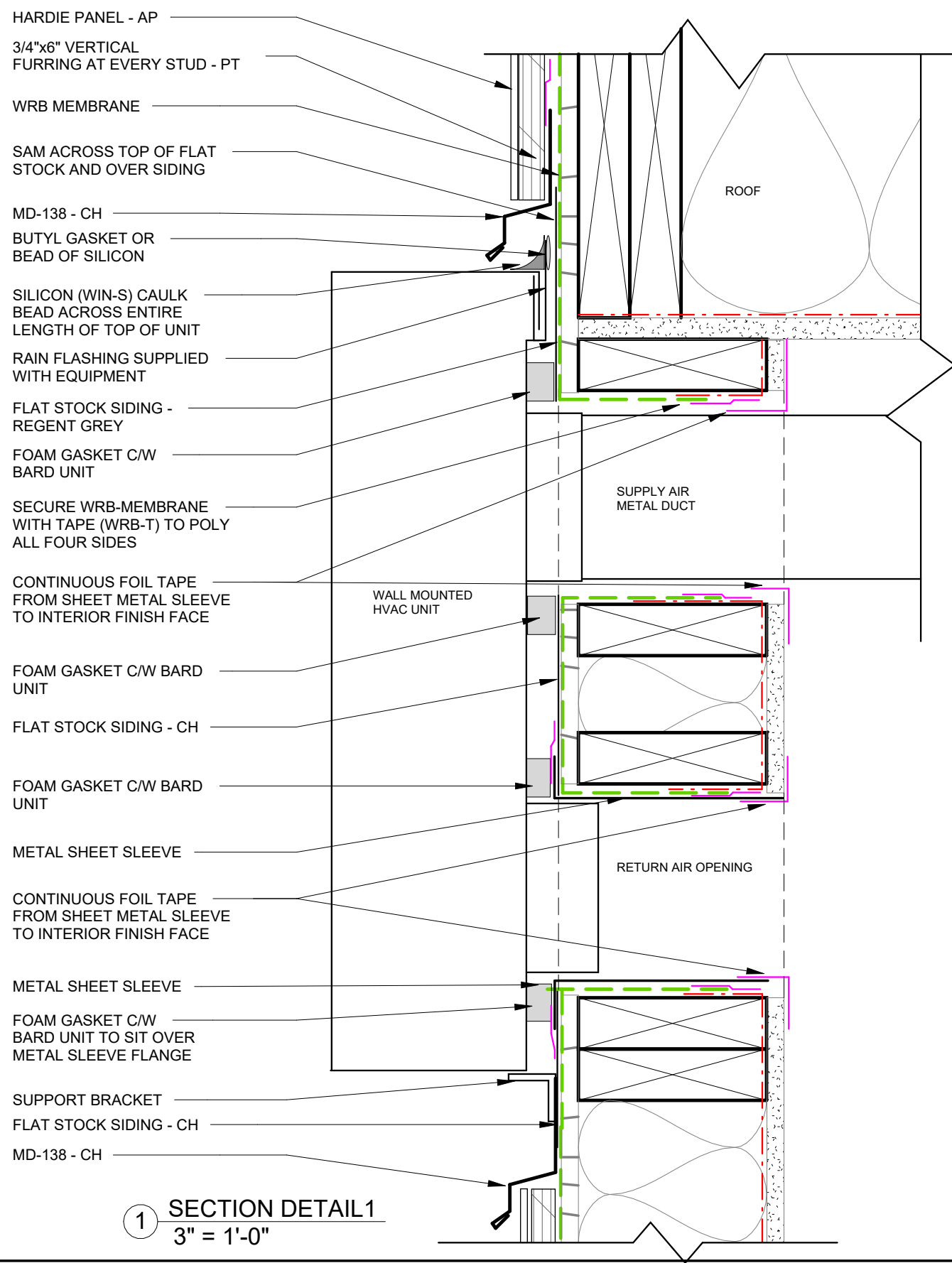
CLIENT: CASCADE CHRISTIAN SCHOOL

PROJECT NO: 1107994  
DRAWING NO: AM307  
REV. # A

PLOT DATE: 2025-05-26 11:24:59 AM

R2022.1

11x17 Titleblock



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1 SECTION DETAIL 1  
3" = 1'-0"

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APPROVED BY THE STATE**

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

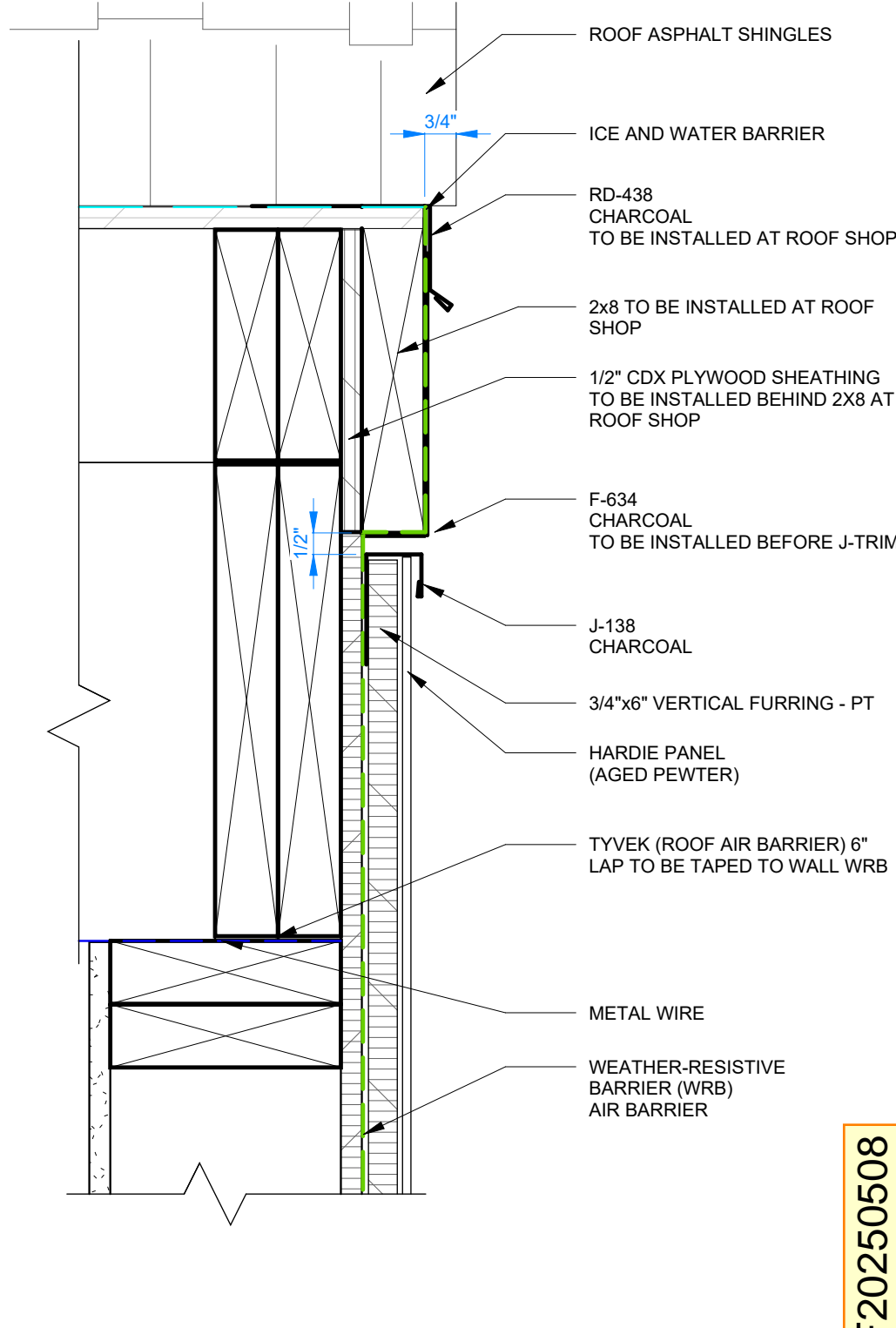
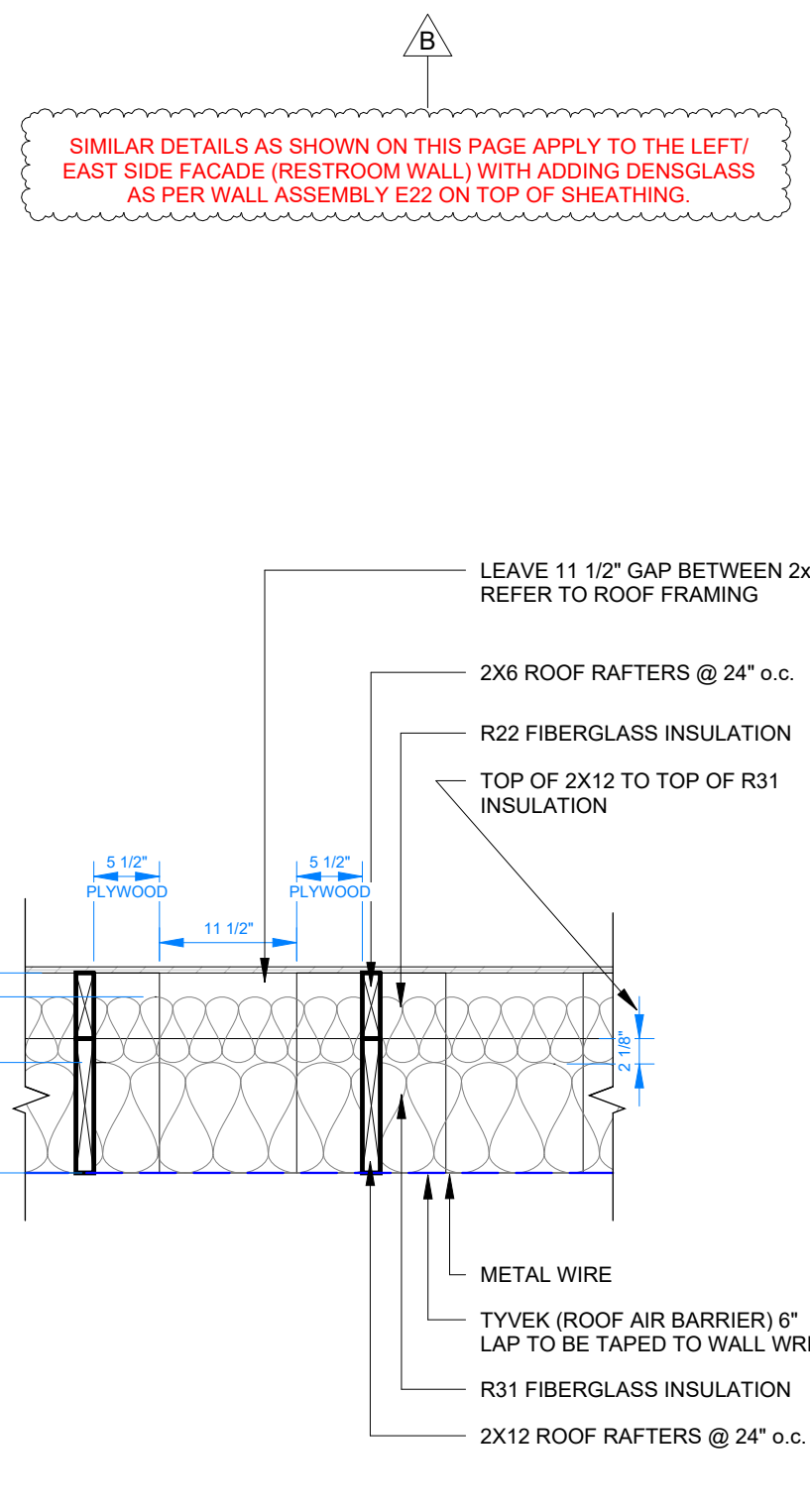
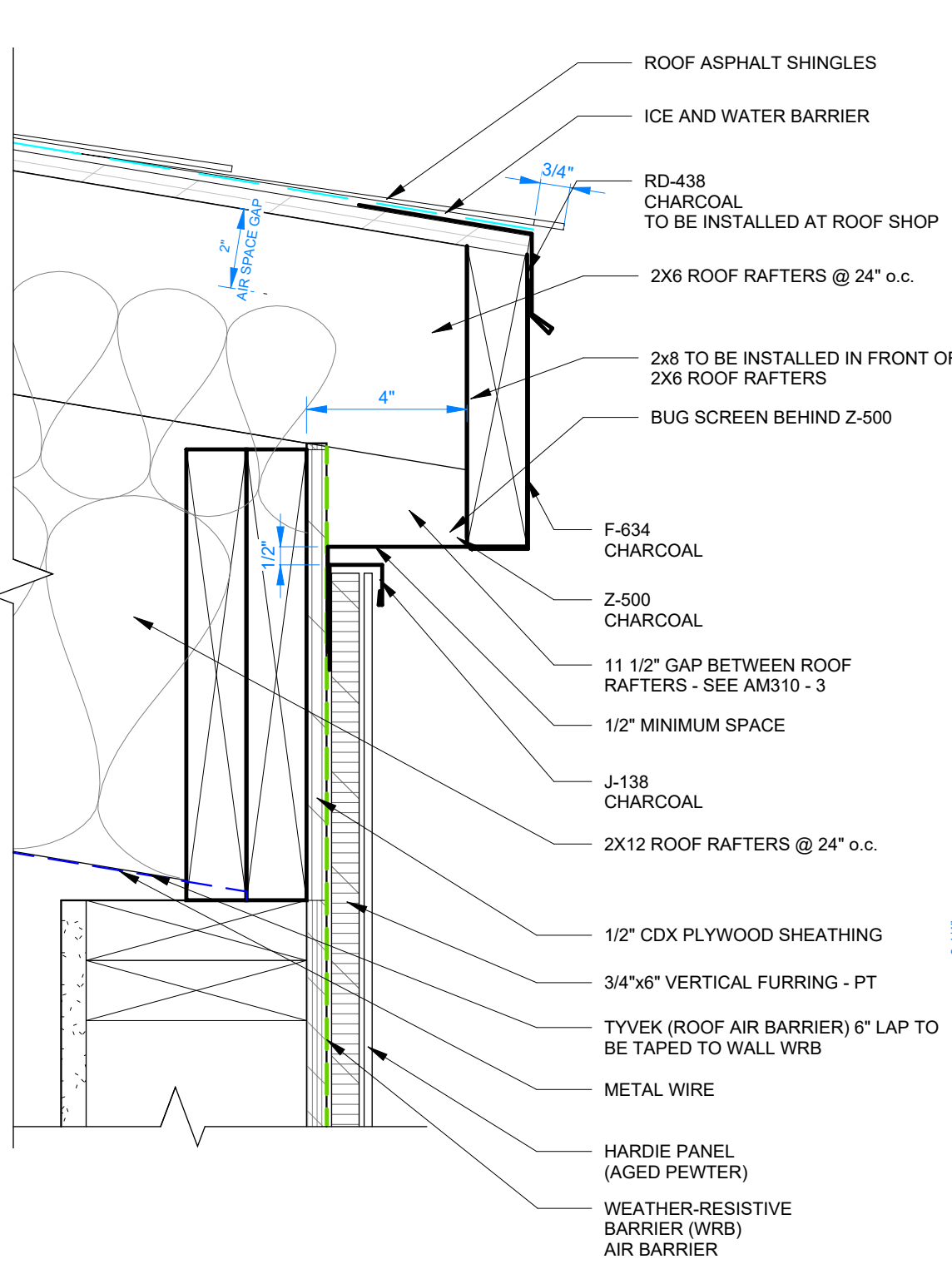
REV.	DATE	DESCRIPTION	BY	CHK/APR
A	2025-05-14	ISSUED FOR STATE APPROVAL	NM	AH

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH		DRAWING TITLE: EXTERIOR FINISH DETAILS - BARD		
CLIENT: CASCADE CHRISTIAN SCHOOL		PROJECT NO: 1107994	DRAWING NO: AM308	REV. # A

PLOT DATE: 2025-05-26 11:25:16 AM

R2022.1

11x17 Titleblock



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1 ROOF DETAIL - LONG WALL  
3" = 1'-0"

3 GAP BETWEEN 2x6 RAFTERS  
3/4" = 1'-0"

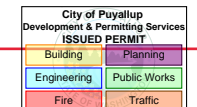
2 ROOF DETAIL - SHORT WALL  
3" = 1'-0"

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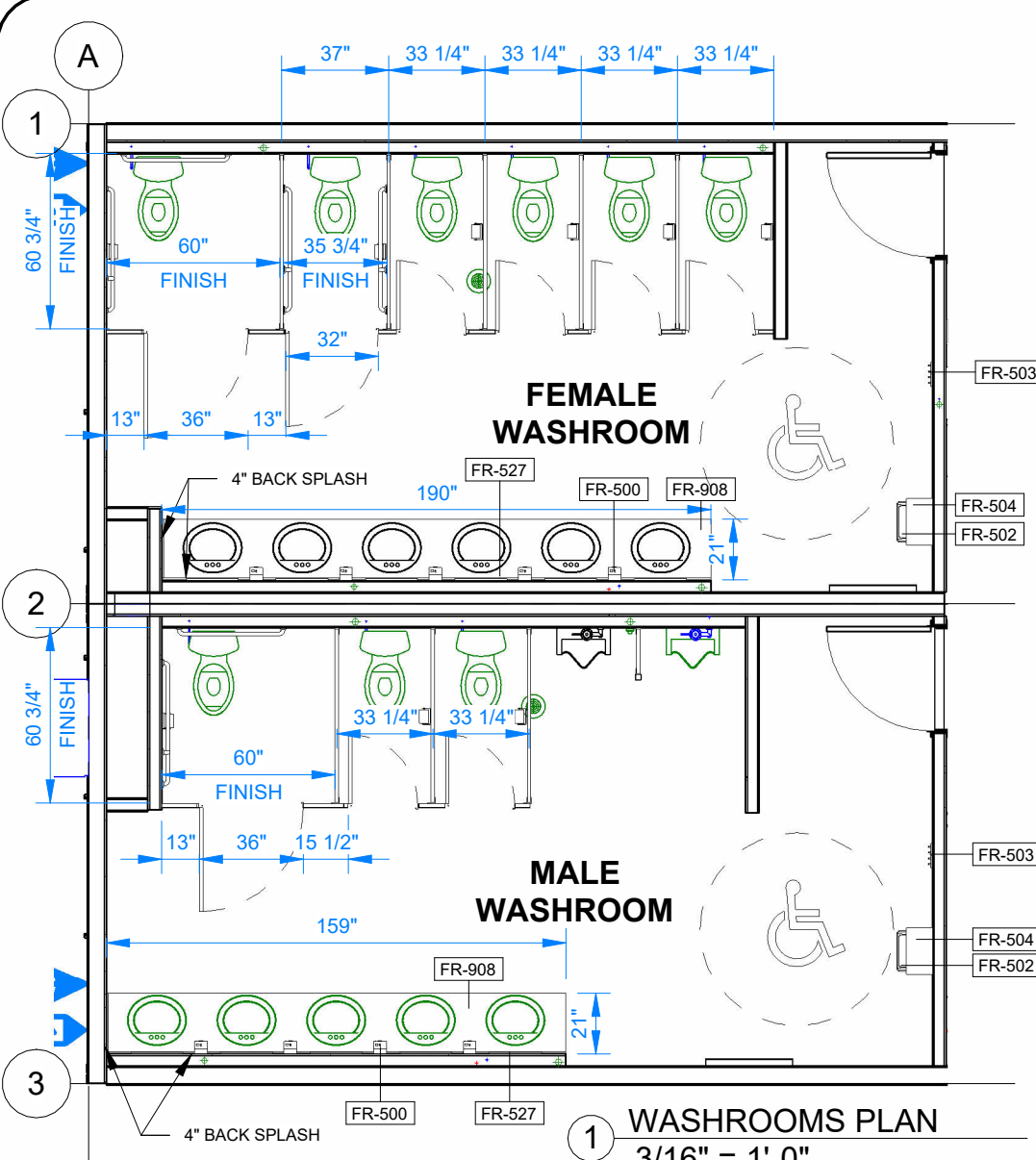


REV.	DATE	DESCRIPTION	BY	CHK/APR
B	2025-05-14	RE-ISSUED FOR STATE APPROVAL	NM	AH
A	2024-10-28	ISSUED FOR STATE APPROVAL	NM	

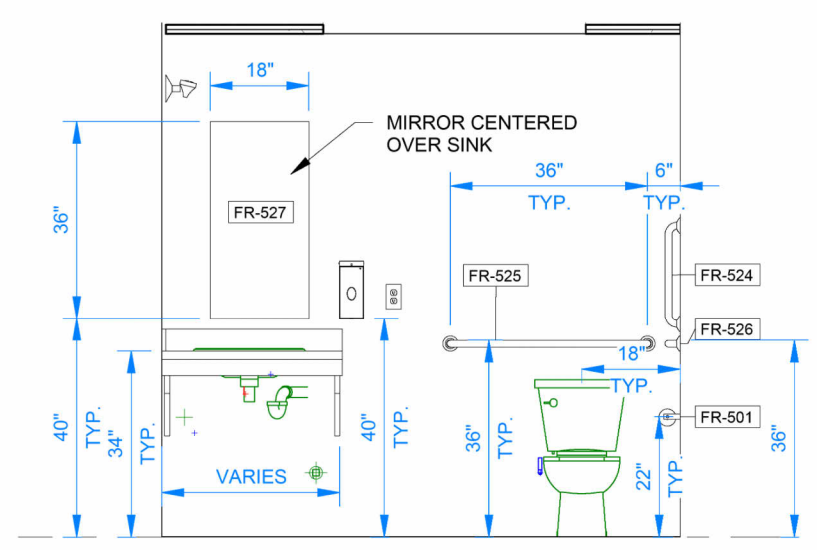
PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH  
 CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: EXTERIOR FINISH DETAILS - CLADDING  
 PROJECT NO: 1107994  
 DRAWING NO: AM310  
 REV. # B

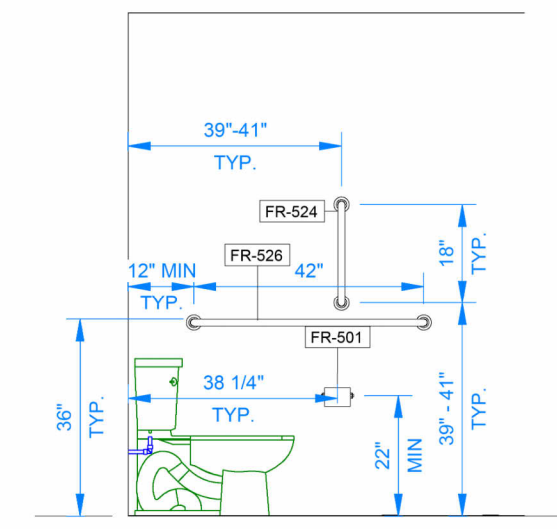
11X17 SHEET - DO NOT PRINT TO OTHER SCALE



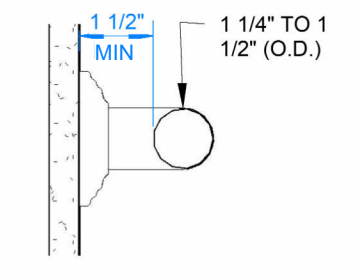
1 WASHROOMS PLAN  
3/16" = 1'-0"



2 TYPICAL WASHROOM ELEVATION 1  
3/8" = 1'-0"

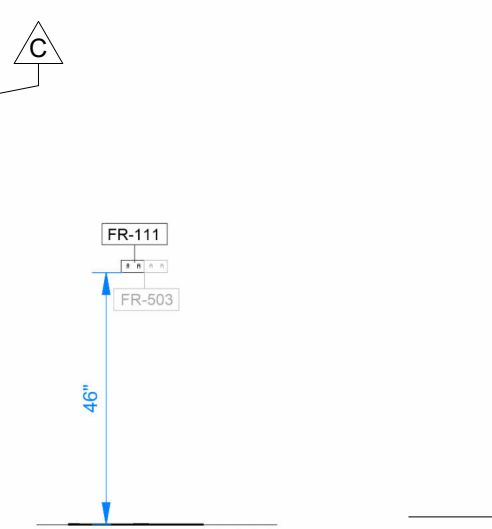
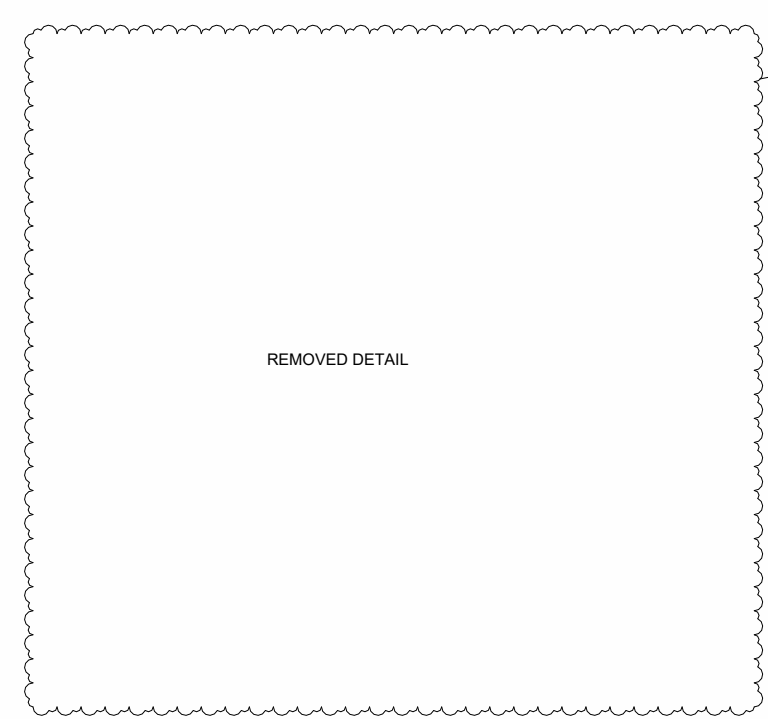


3 TYPICAL WASHROOM ELEVATION 2  
3/8" = 1'-0"

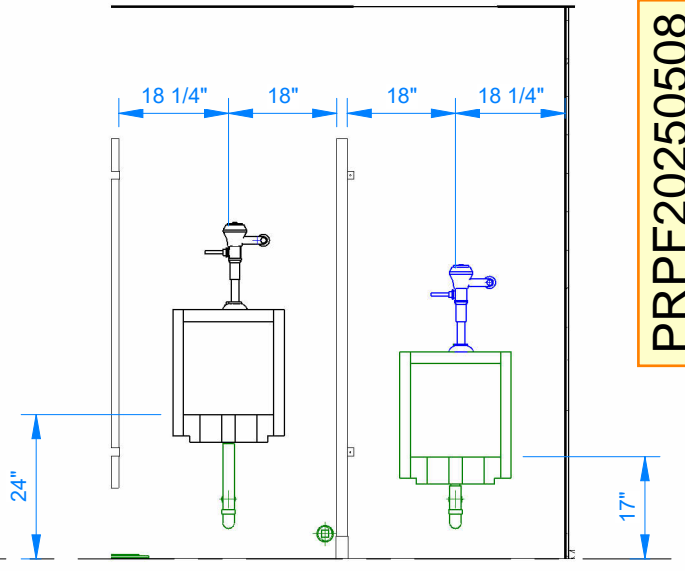


4 GRAB BAR SECTION  
3/16" = 1'-0"

FURNITURE AND EQUIPMENT SCHEDULE		
TAG	QTY	DESCRIPTION
FR-100	3	VINYL CORDLESS MINI BLINDS 45"W X 47"H COLOR: WHITE
FR-500	9	SOAP DISPENSER
FR-501	9	SINGLE ROLL TOILET PAPER HOLDER
FR-502	2	WALL MOUNTED WASTE DISPOSAL BIN - 7" FROM BOTTOM TO FINISHED FLOOR
FR-503	2	COAT HOOK BOARD - 4 HOOKS -46" AFF
FR-504	2	WALL MOUNTED PAPER TOWEL DISPENSER - 46" FROM BOTTOM TO FINISHED FLOOR
FR-524	4	18" GRAB BAR, BARRIER FREE WASHROOM
FR-525	2	36" GRAB BAR, BARRIER FREE WASHROOM
FR-526	4	42" GRAB BAR, BARRIER FREE WASHROOM
FR-527	11	MIRROR BOBRICK B-165 SIZE: 18"W x 36"H
FR-908	2	ADA LAVATORY COUNTERTOP. 4" BACKSPLASH. HQ LAMINATE COLOR WILSONART COTE D'AZURE
FR-909	2	FIRE EXTINGUISHER - BY OTHERS



5 TYP. COAT HOOK ELEVATION  
3/8" = 1'-0"



6 URINAL ELEVATION  
3/8" = 1'-0"

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

REV.	DATE	DESCRIPTION	BY	CHK/APR
C	2025-04-22	RE-ISSUED FOR STATE APPROVAL	NM	AH
B	2024 -07-17	REISSUED FOR STATE APPROVAL	NM	
A	2024 -06-07	ISSUED FOR STATE APPROVAL	NM	

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH  
CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: INTERIOR FINISH DETAILS - WASHROOM  
PROJECT NO: 1107994  
DRAWING NO: AM400  
REV. #: C

**REMOVED DETAILS**

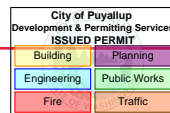


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REV.	DATE	DESCRIPTION	BY	CHK/APR
C	2025-04-22	RE-ISSUED FOR STATE APPROVAL	NM	AH
B	2024-10-28	ISSUED FOR STATE APPROVAL	NM	
A	2024-10-28	RE-ISSUED FOR STATE APPROVAL	NM	

PROJECT:	28x64 ASL USA SR FLEET OFFICE WASH
CLIENT:	CASCADE CHRISTIAN SCHOOL

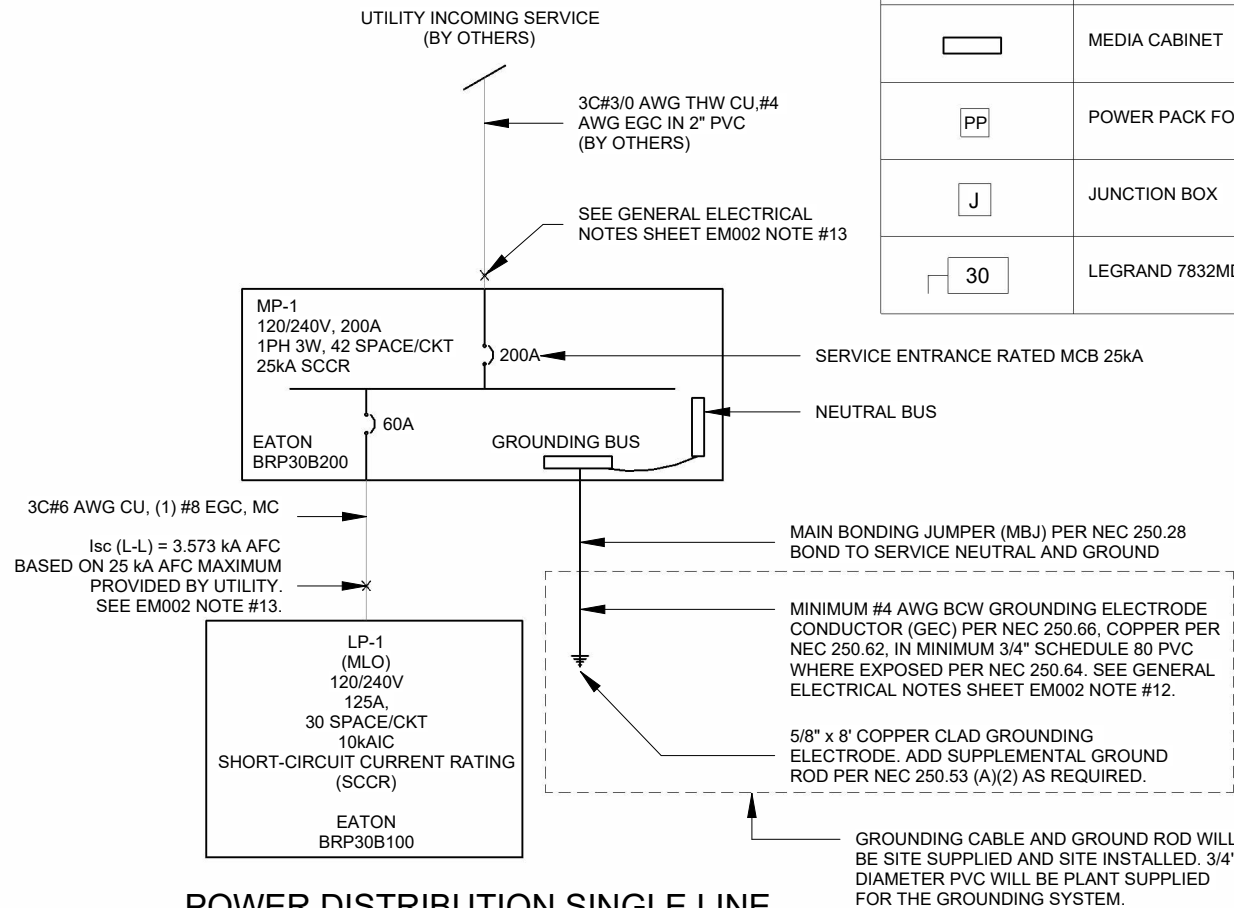
DRAWING TITLE:	INTERIOR FINISH DETAILS - OPEN WORK SPACE		
PROJECT NO:	1107994	DRAWING NO:	AM401
REV. #	C		

# DRAWING LIST - ELECTRICAL MANUFACTURING

SHEET NUMBER	SHEET NAME
EM001	ELECTRICAL DRAWING LIST, LEGEND & SINGLE LINE DIAGRAM
EM002	GENERAL NOTES & LIGHTING BUDGET CALCULATIONS
EM101	OVERALL POWER & DATA PLAN - LEVEL 1
EM201	OVERALL LIGHTING PLAN - LEVEL 1
EM301	OVERALL FIRE ALARM PLAN - LEVEL 1
EM302	FIRE RISER DIAGRAM
EM500	ELECTRICAL DETAILS
EM501	ELECTRICAL DETAILS
EM600	PANEL SCHEDULES
EM603	LPD CALCULATIONS
EM604	LOAD CALCULATIONS
Grand total: 11	

POWER & DATA SYMBOL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	20A, 125V, HALF CONTROLLED PLUG LOAD DUPLEX RECEPTACLE, WHITE	18" AFF TO CENTRE OF DEVICE BOX, UNLESS OTHERWISE SPECIFIED
	RADIANT TAMPER RESISTANT 20A SELF-TEST GFCI RECEPTACLES WITH SAFELOCK PROTECTION, WHITE	REFER TO DRAWING FOR DETAILS
	HARDWIRED ELECTRICAL CONNECTION TO EQUIPMENT	
	DATA OUTLET	18" AFF TO CENTRE OF DEVICE BOX, UNLESS OTHERWISE SPECIFIED
	ELECTRICAL PANELBOARD, REFER TO PANEL SCHEDULE FOR SIZING, MODEL AND BREAKER LAYOUT	66" AFF TO HIGHEST OVERCURRENT DEVICE
	MEDIA CABINET	60" AFF TO THE TOP THE CABINET
	POWER PACK FOR RECEPTACLES	CEILING MOUNTED
	JUNCTION BOX	CEILING MOUNTED
	LEGRAND 7832MD 30A DISCONNECT	48" AFF TO CENTRE OF DEVICE BOX, UNLESS OTHERWISE SPECIFIED

LIGHTING SYMBOL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	LOW VOLTAGE LIGHT SWITCH	48" AFF TO CENTRE, UNLESS OTHERWISE SPECIFIED
	UNIVERSAL RUNNING MAN EXIT SIGN / DIRECTIONAL SIGNAGE PROVIDED WITH ARROW	84" AFF TO CENTRE, UNLESS OTHERWISE SPECIFIED
	EMERGENCY LIGHT BATTERY UNIT	87" AFF TO CENTRE, UNLESS OTHERWISE SPECIFIED
	DAYLIGHT SENSOR	CEILING MOUNTED
	EMERGENCY LIGHT DOUBLE REMOTE HEAD	84" AFF TO CENTRE, UNLESS OTHERWISE SPECIFIED
	EXTERIOR LIGHT FIXTURE	77" AFF TO WIRE HOLE, UNLESS OTHERWISE SPECIFIED
	EMERGENCY LIGHT SINGLE REMOTE HEAD	84" AFF TO CENTRE, UNLESS OTHERWISE SPECIFIED
	WIRELESS CEILING MOUNTED OCCUPANCY SENSOR	CEILING MOUNTED
	TROFFER FIXTURE	CEILING MOUNTED
	WIRELESS REMOTE CONTROL SWITCH	48" AFF TO CENTRE, UNLESS OTHERWISE SPECIFIED
	POWER PACK FOR LIGHTING	CEILING MOUNTED
	FIXTURE TYPE TAG - REFER TO LUMINAIRE SCHEDULE	N/A



MECHANICAL DEVICE LEGEND		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	THERMOSTAT	REFER TO MECHANICAL PLAN

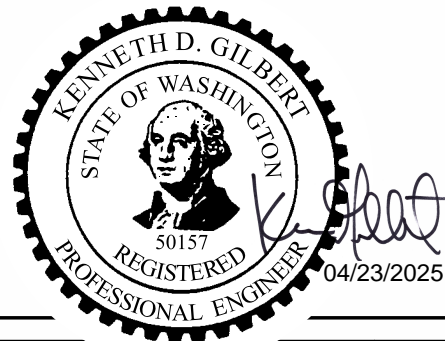
ELECTRICAL ABBREVIATIONS	
ABBREVIATION	DESCRIPTIONS
AFF	ABOVE FINISHED FLOOR
DP	DISTRIBUTION PANEL
FACP	FIRE ALARM CONTROL PANEL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUG ONLY
MOCP	MAXIMUM OVERCURRENT CIRCUIT PROTECTION
MP	MAIN PANEL
SCCR	SHORT-CIRCUIT CURRENT RATING
SP	SUB-PANEL
WP	WEATHER PROOF

FIRE ALARM SYMBOL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	SMOKE DETECTOR (BY OTHERS)	CEILING MOUNTED
	MANUAL PULL STATION (BY OTHERS)	42" AFF TO CENTRE, UNLESS OTHERWISE SPECIFIED
	HORN/ STROBE (BY OTHERS)	84" AFF TO CENTRE, UNLESS OTHERWISE SPECIFIED
	STROBE (BY OTHERS)	84" AFF TO CENTRE, UNLESS OTHERWISE SPECIFIED
	HEAT DETECTOR (BY OTHERS)	CEILING MOUNTED

NOTE:  
1. ONLY ROUGH INS WILL BE PROVIDED AT PLANT. ALL WIRING DEVICES AND CABLING WILL BE SITE SUPPLIED AND SITE INSTALLED, BY OTHERS  
2. WAC-296-46B 760 FIRE ALARM BOXES SHALL BE RED IN COLOR INSIDE AND OUT,

## POWER DISTRIBUTION SINGLE LINE DIAGRAM N.T.S

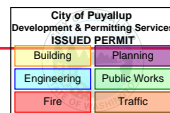
CODE & DESIGN COMPLIANCE	
REFERENCE	
1.	WASHINGTON STATE BUILDING CODE 2021
2.	NATIONAL ELECTRICAL CODE 2023



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C	2025-04-17	RE-ISSUED FOR STATE APPROVAL	OS	KG
B	2024-10-23	RE-ISSUED FOR STATE APPROVAL	OS	AH
A	2024-06-07	ISSUED FOR STATE APPROVAL	DB	

PROJECT:	28x64 ASL USA SR FLEET OFFICE WASH		DRAWING TITLE:	ELECTRICAL DRAWING LIST, LEGEND & SINGLE LINE DIAGRAM			
CLIENT:	CASCADE CHRISTIAN SCHOOL	PROJECT NO:	1107994	DRAWING NO:	EM001	REV. #	C

PRPF20250508

ENERGY CODE NOTES - LIGHTING

ENERGY CODE NOTES - LIGHTING

-LIGHTING CONTROL METHOD TO COMPLY TO GENERAL LIGHTING CONTROL REQUIREMENTS (C405.2.1.-C405.2.10):

OCCUPANCY SENSORS WILL BE INSTALLED THROUGHOUT BUILDING (C405.4.2(1)) OCCUPANCY SENSORS SHALL BE CONFIGURED TO TURN OFF LIGHTS WITHIN 20MIN OF ALL OCCUPANTS LEAVING THE SPACE; THEY SHALL BE MANUAL ON, OR CONFIGURED TO AUTOMATICALLY TURN ON THE LIGHTING TO NOT MORE THAN 50% POWER; THEY NEED TO INCORPORATE A MANUAL CONTROL TO ALLOW OCCUPANTS TO TURN LIGHTS OFF. MANUAL CONTROLS ARE NOT REQUIRED IN CORRIDORS, STAIRWAYS, RESTROOMS, LOCKER ROOMS, LOBBIES OR OTHER AREAS WHERE A MANUAL OPERATION WOULD ENDANGER SAFETY OR SECURITY.

-TIME SWITCH CONTROLS: NOT REQUIRED (C405.2.2.)

-MANUAL CONTROLS: REQUIRED (C405.2.3.) - PROVIDED WITH REMOTE CONTROL SWITCHES.

-LIGHTING REDUCTION CONTROLS (C405.2.4.) - NOT REQUIRED

-DAYLIGHT RESPONSE CONTROLS (C405.2.5.) - PROVIDED WITH LUTRON DAYLIGHT SENSOR.

-ADDITIONAL LIGHTING CONTROLS (C405.2.6): NOT PROVIDED

-AREA CONTROLS (C495.2.7): NOT REQUIRED

-ADVANCED LIGHTING CONTROLS (C405.2.8.): NOT REQUIRED

-EXTERIOR LIGHTING CONTROLS (C405.2.9): CONTROLS TO COMPLY TO C405.2.9.1 - C405.2.9.4. DAYLIGHT SHUTOFF (C405.2.9.1.) THE EXTERIOR LIGHTING COMES WITH A BUILT-IN PHOTOMETRIC SENSOR THAT SHUTS-OFF THE LIGHT ONCE THE SET LIGHTING LEVEL IS ACHIEVED. REQUIRED, FIXTURES C/W DAYLIGHT SENSING PROVIDED BUILDING FACADE, LANDSCAPE LIGHTING (C405.2.9.2.): NOT PROVIDED

-INTERIOR LIGHTING POWER REQUIREMENTS: TOTAL CONNECTED INTERIOR LIGHTING POWER IS NO GREATER THAN INTERIOR LIGHTING POWER ALLOWANCE (C405.4.): SEE WSEC SPREADSHEET CALCULATION, BUILDING AREA METHOD USED

-EXTERIOR LIGHTING POWER REQUIREMENTS (C405.5): TOTAL CONNECTED EXTERIOR LIGHTING POWER IS NO GREATER THAN EXTERIOR LIGHTING POWER ALLOWANCE: SEE WSEC SPREADSHEET CALCULATION, EXTERIOR LIGHTING ZONE: 2

LIGHTING BUDGET CALCULATIONS

MAXIMUM ALLOWED INTERIOR LIGHTING LOAD (NFPA 2023 220.42a)

Table with 4 columns: SPACE TYPE, AREA, VA/FT², ALLOWED VA. Row 1: CLASSROOM, 1792 ft², 1.3, 2329.6 VA. Row 2: TOTAL ALLOWED VA, 2329.6 VA

LIGHT REDUCTION / REDUCED LIGHTING POWER (PER WSEC C406.3.1)

TOTAL ALLOWED VA X 0.75 = 2329.6 VA x 0.75 = 1747.2 VA SECTION C4006 ADDITIONAL EFFICIENCY OPTIONS

PROPOSED INTERIOR LIGHTING PACKAGE:

(14) LED 2'X4' TROFFER AUTO DIMMABLE @ 40VA/FIXTURE 560 VA TOTAL PROPOSED LIGHTING LOAD FOR THE COMPLEX 560 VA

PERCENTAGE OF INSTALLED INTERIOR LIGHTING CONFIGURED WITH ENHANCED CONTROL FUNCTIONS (WSEC C406.4)

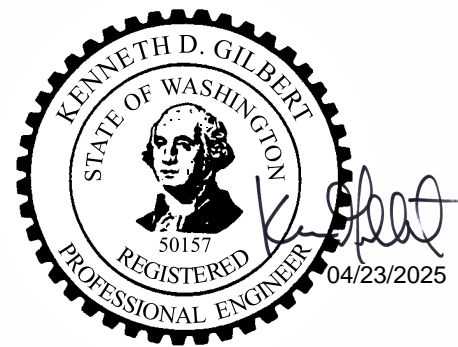
100% / 14 LIGHTS = 7.14% PER LIGHT, 14 LIGHTS W/ ENHANCED CONTROLS X 7.14 = 100%

MAXIMUM ALLOWABLE EXTERIOR LIGHTING WATTAGE FOR BUILDING ENTRANCES & EXITS

(2) ENTRANCES X 3 ft @ 19.6W/linear-ft (WSEC TABLE C405.5.3(2), ZONE 4 117.6 W

PROPOSED EXTERIOR LIGHTING PACKAGE:

(2) LED 3CCT SELECTABLE AUTO DIMMABLE UL CERTIFIED @ 20VA/FIXTURE 40 VA



GENERAL ELECTRICAL NOTES:

- 1. ALL WIRE SHALL BE MIN OF #12 AWG, UNLESS OTHERWISE SPECIFIED.
2. UNLESS OTHERWISE INDICATED, ALL WIRES AND CABLES SHALL BE COPPER AND MC TYPE.
3. ALL WIRING MUST CONFORM TO NFPA 70, 72 & 101.
4. ALL ELECTRICAL DEVICES ARE TO BE WHITE IN COLOUR.
5. ALL DIMENSIONS ARE APPROXIMATE, UNLESS OTHERWISE SPECIFIED.
6. LOCATION OF ELECTRICAL DEVICES ARE APPROXIMATE, UNLESS OTHERWISE SPECIFIED.
7. ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR (AFF), UNLESS OTHERWISE SPECIFIED.
8. ALL WIRES AND JUNCTION BOXES SHALL BE APPROPRIATELY LABELLED.
9. ALL ELECTRICAL COMPONENTS SHALL CONFORM WITH UL LISTING & FM APPROVAL.
10. WHERE DEVICE RELOCATION IS REQUIRED DUE TO CONFLICTS WITH OTHER DEVICES AND/OR EQUIPMENT, THE ELECTRICAL CONTRACTOR SHALL INSTALL THE DEVICES UP TO 1M/3 FEET FROM ORIGINAL LOCATION WITHOUT APPROVAL FROM THE ENGINEER. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REDLINE DRAWINGS TO ATCO ENGINEERING UPON COMPLETION OF MANUFACTURING.
11. WHERE A DEVICE IS SPECIFIED WITH AN EXACT MODEL NUMBER AND AN ALTERNATE IS PROVIDED, ENGINEERING MUST BE NOTIFIED AND THE ALTERNATE DEVICES MUST BE APPROVED PRIOR TO INSTALLATION.
12. GROUNDING WIRE SIZE IS BASED ON THE 3/0 CALCULATED INCOMING FEEDER SIZE. IN CASE THERE WILL BE CHANGES, WIRE SIZE SHALL BE BASED AS PER NEC TABLE 250.66 (GROUNDING ELECTRODE CONDUCTOR FOR ALTERNATING-CURRENT SYSTEMS).
13. INSTALLER SHALL:
a. VERIFY THE AVAILABLE FAULT CURRENT (AFC) AS PROVIDED BY THE UTILITY.
b. IF THE AFC EXCEEDS 25 KAIC (RATING OF DESIGNATED PANEL), CONSULT WITH ENGINEER BEFORE CONTINUING WITH INSTALLATION.
c. FURNISH AND INSTALL FIELD MARKING PER NEC 110.24(A)

LIGHTING NOTES:

- 1. REFER TO LUMINAIRE SCHEDULE FOR LIGHT FIXTURE TYPES.
2. ALL WIRE SHALL BE #12 AWG FOR EMERGENCY LIGHTING CIRCUITS.
3. DISCONNECT LEADS OF THE EMERGENCY BATTERY PACKS FROM BATTERY TERMINALS PRIOR TO SHIPPING. ONCE ON SITE, RECONNECT LEADS, CHARGE FOR TWENTY-FOUR (24) HOURS THEN TEST ALL EMERGENCY/EXIT LIGHT BATTERIES FOR 30 MINUTES.
4. SEND ALL SITE TESTING DOCUMENTATION TO ATCO ENGINEERING PRIOR TO PROJECT COMPLETION (IF APPLICABLE)

POWER NOTES:

- 1. TELEPHONE/DATA OUTLETS SHALL HAVE 3/4" EMT CONDUIT STUBBED UP TO CEILING SPACE COMPLETE WITH PLASTIC BUSHING. PULL STRING SHALL BE SUPPLIED FOR EACH OUTLET.
2. ALL THERMOSTAT WIRE SHALL BE 7C#18 LOW VOLTAGE WIRE.
3. ALL ELECTRIC RESISTANCE SPACE HEATERS SHALL BE CONTROLLED BY INDEPENDENT THERMOSTATS LOCATED IN THE SPACE AS PER NEC 2023.
4. PROVISIONS FOR HEAT TRACE USING A 1" EMT STUB DOWN PROVIDED WITH GFCI CIRCUIT BREAKER.
5. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL MECHANICAL EQUIPMENT PRIOR TO INSTALLATION.
6. ALL RECEPTACLE COVER PLATES SHALL BE LABELED WITH WHITE LABELS C/W BLACK LETTERING AND SHALL IDENTIFY THE PANEL NAME AND CIRCUIT BREAKER NUMBER.
7. PROVIDE LABELS FOR SPECIAL PURPOSE SWITCHES, RECEPTACLES AND ELECTRICAL DEVICES.
8. ALL ELECTRICAL MATERIAL AND INSTALLATIONS SHOWN AND/OFF SPECIFIED SHALL BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS AND SHALL COMPLY IN STRICT ACCORDANCE WITH THE LATEST EDITION OF CSA STANDARDS AND THE NEC 2023.
9. SEND ALL SITE TESTING DOCUMENTATION TO ATCO ENGINEERING PRIOR TO PROJECT COMPLETION.

PANELBOARD NOTES:

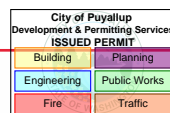
- 1. PANELBOARDS SHALL BE COMPLETE WITH LOCKABLE PANEL DOORS, PANEL SCHEDULES, ARC FLASH STICKERS.
2. MAIN SERVICE CONNECTION TO MAIN PANELBOARD TO BE COMPLETED ON SITE (BY OTHERS).
3. SCHEDULE 40 RIGID POLYVINYL CHLORIDE STUBDOWN PROVIDED FOR MAIN SERVICE ENTRANCE AS PER WAC 296-46B-230 043 (7).

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Revision table with columns: REV., DATE, DESCRIPTION, BY, CHK/APR. Rows include C (2025-04-17), B (2024-10-23), A (2024-06-07).

Project information table with columns: PROJECT, CLIENT, DRAWING TITLE, PROJECT NO., DRAWING NO., REV. #. Values include 28x64 ASL USA SR FLEET OFFICE WASH, CASCADE CHRISTIAN SCHOOL, 1107994, EM002, C.

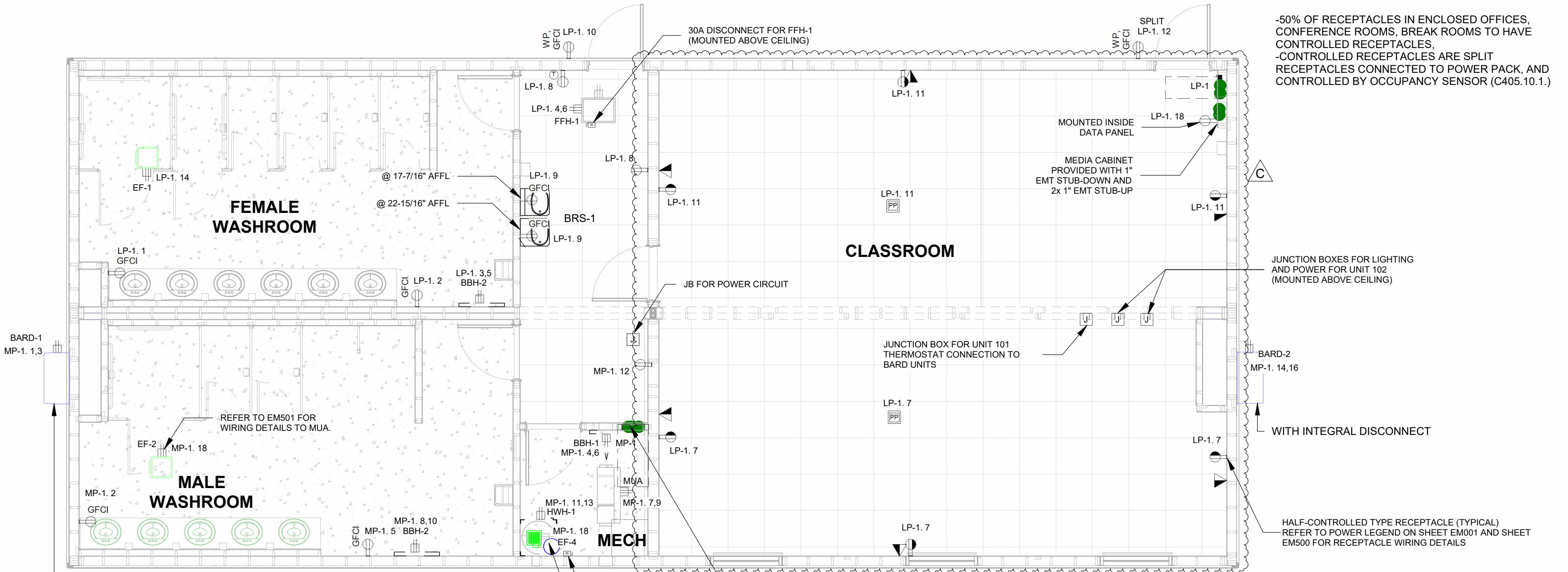
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R2024.1

11x17 Titleblock

ENERGY CODE NOTES - POWER

- 50% OF RECEPTACLES IN ENCLOSED OFFICES, CONFERENCE ROOMS, BREAK ROOMS TO HAVE CONTROLLED RECEPTACLES,
- CONTROLLED RECEPTACLES ARE SPLIT RECEPTACLES CONNECTED TO POWER PACK, AND CONTROLLED BY OCCUPANCY SENSOR (C405.10.1.)



**1 FFL 1 - E - POWER & SYSTEMS**  
3/16" = 1'-0"



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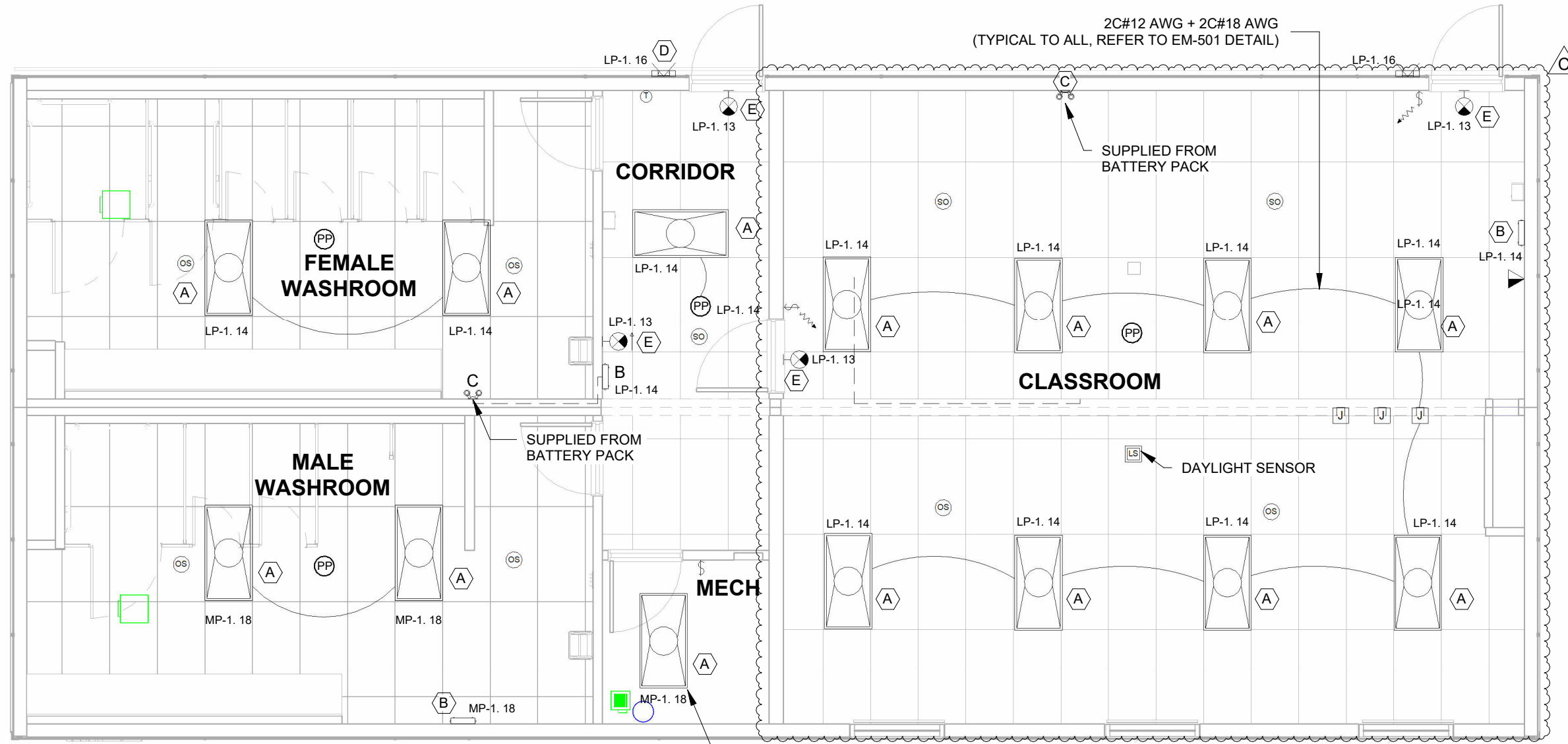
City of Puyallup  
Development & Permitting Services  
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

REV.	DATE	DESCRIPTION	BY	CHK/APR
C	2025-04-17	RE-ISSUED FOR STATE APPROVAL	OS	KG
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A	2024-06-07	ISSUED FOR STATE APPROVAL	DB	

PROJECT:	28x64 ASL USA SR FLEET OFFICE WASH		DRAWING TITLE:	OVERALL POWER & DATA PLAN - LEVEL 1			
CLIENT:	CASCADE CHRISTIAN SCHOOL	PROJECT NO:	1107994	DRAWING NO:	EM101	REV. #	C

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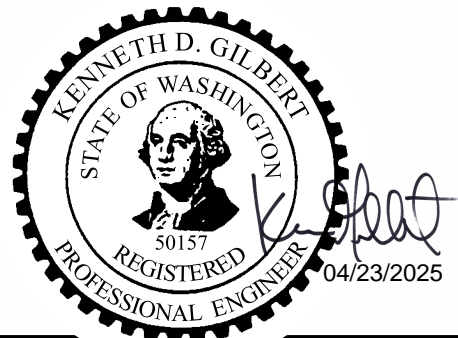


INCLUDE SURFACE MOUNT KIT -  
MODEL : COOPER FPSURF24 FOR  
MECH ROOM LIGHT

1 FFL 1 - E - LIGHTING  
3/16" = 1'-0"

LUMINAIRE SCHEDULE							
TAG	COUNT	MANUFACTURER	MODEL	DESCRIPTION	LAMP COLOUR	WATTAGE	VOLTAGE
A	14	COOPER LIGHTING	24FP4740C	2X4 LED TROFFER FIXTURE	4000 K	40 W	
B	3	HUBBELL	PE2EU	EMERGENCY BATTERY PACK			
C	2	HUBBELL	PERHC	EMERGENCY REMOTE HEAD, DOUBLE			
D	2	AIMLITE	W3I-L GEN 2	LED WALL LIGHT EXTERIOR WITH PHOTOCCELL, NO5000 K JB NEEDED		14 W	
E	4	HUBBELL	CCRRC	WALL/ CEILING MOUNT EXIT SIGN			

NOTE:  
1. ENTRY, MECH ROOM, WASHROOM'S LIGHTS ARE NON DIMMABLE,  
FUNCTION IS ON/OFF.  
2. OFFICES & OPEN WORKSPACE WILL BE PROVIDED WITH DIMMING FUNCTION.



KEY PLAN

101
102

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B	2024-10-23	RE-ISSUED FOR STATE APPROVAL	OS	AH
A	2024-06-07	ISSUED FOR STATE APPROVAL	DB	

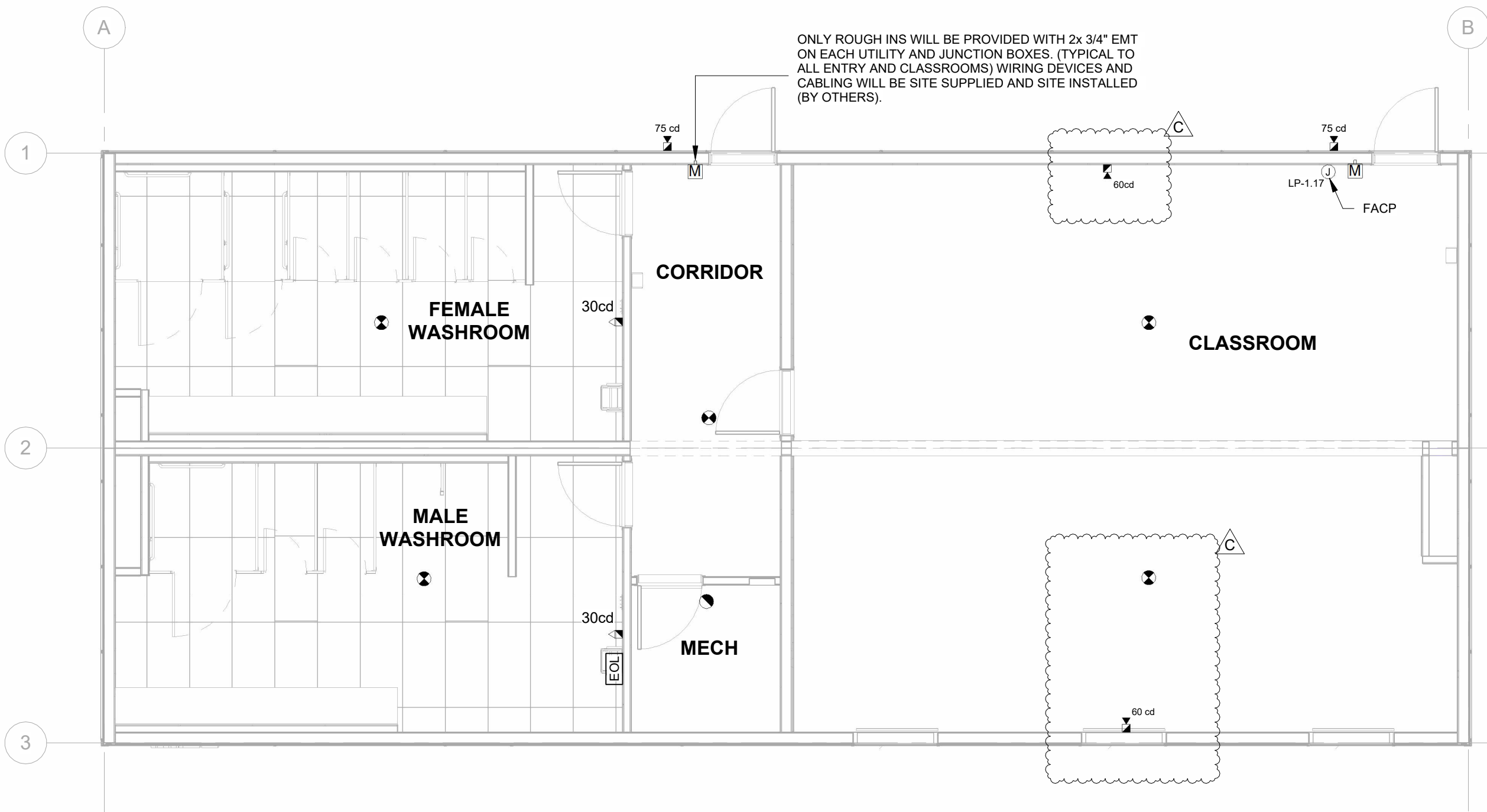
PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH  
CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: OVERALL LIGHTING PLAN - LEVEL 1	
PROJECT NO: 1107994	DRAWING NO: EM201
REV. # C	

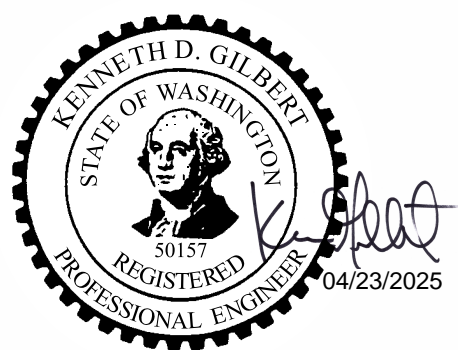
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R2024.1

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① FFL 1 - E - FIRE ALARM  
3/16" = 1'-0"



NOTE:  
WAC -296-46B 760 - Fire Alarm boxes shall be red in color inside and out.

**KEY PLAN**

101
102

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Engineering	Public Works
Fire	Traffic

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C	2025-04-17	RE-ISSUED FOR STATE APPROVAL	OS	KG
B	2024-10-23	RE-ISSUED FOR STATE APPROVAL	OS	AH
A	2024-06-07	ISSUED FOR STATE APPROVAL	DB	

PROJECT:  
28x64 ASL USA SR FLEET  
OFFICE WASH

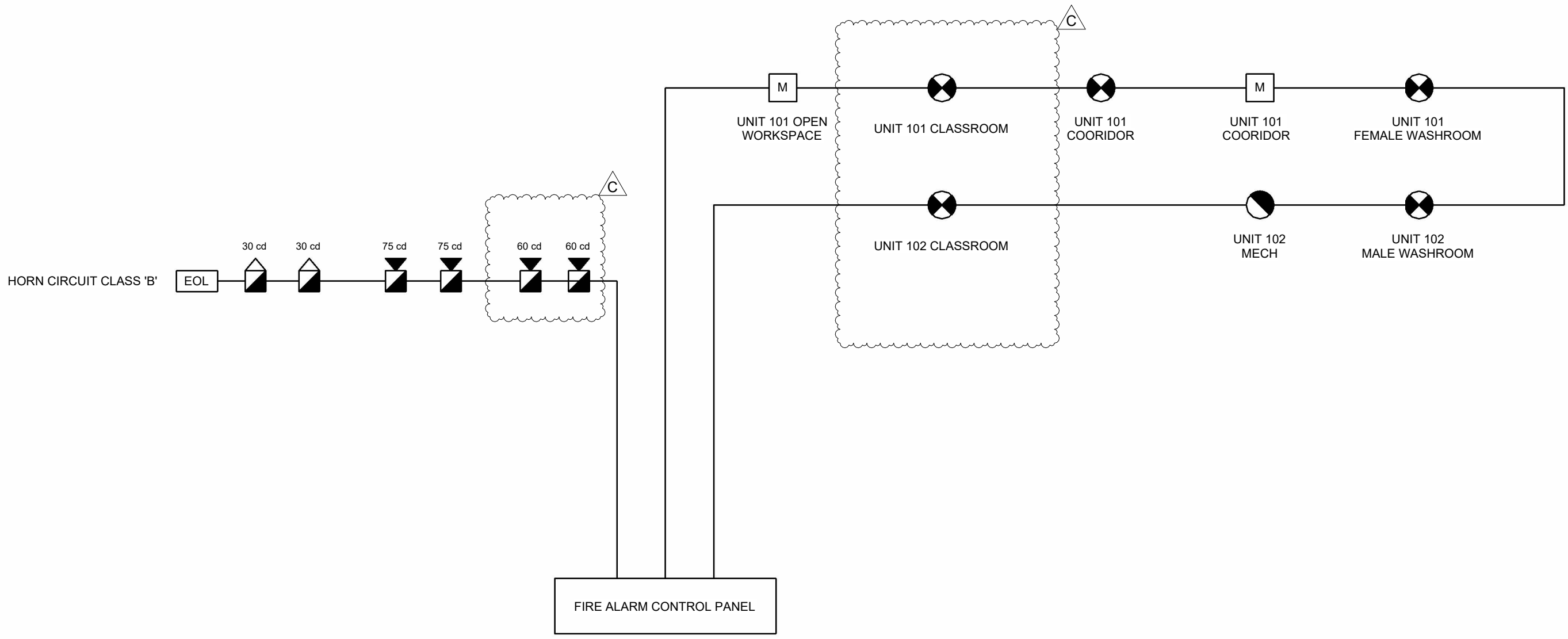
CLIENT:  
CASCADE CHRISTIAN SCHOOL

DRAWING TITLE:  
OVERALL FIRE ALARM PLAN - LEVEL 1

PROJECT NO:  
1107994

DRAWING NO:  
EM301

REV. #  
C



EXISTING SITE FIRE ALARM CONTROL PANEL

1 FIRE ALARM RISER DIAGRAM  
3" = 1'-0"



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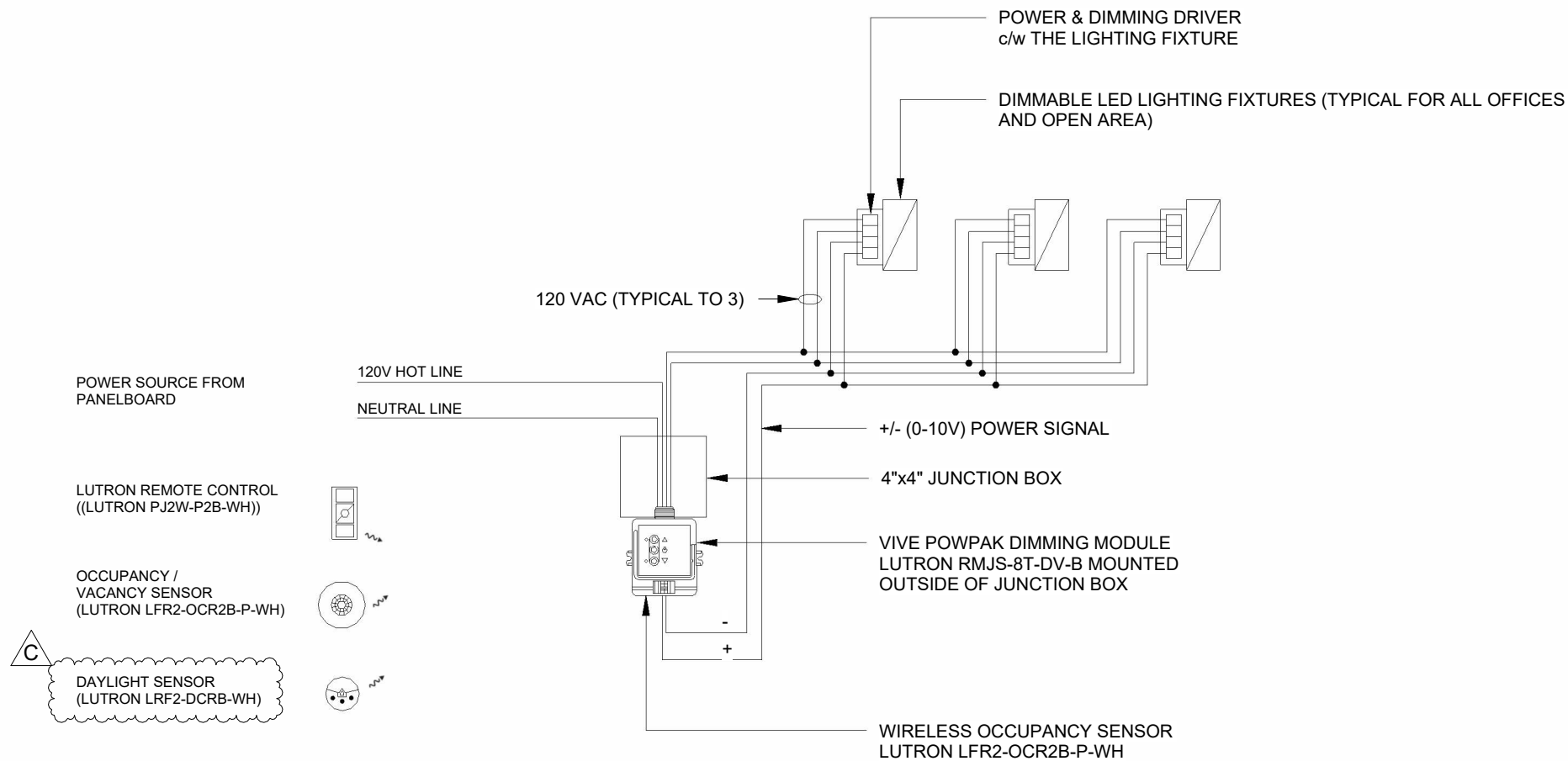
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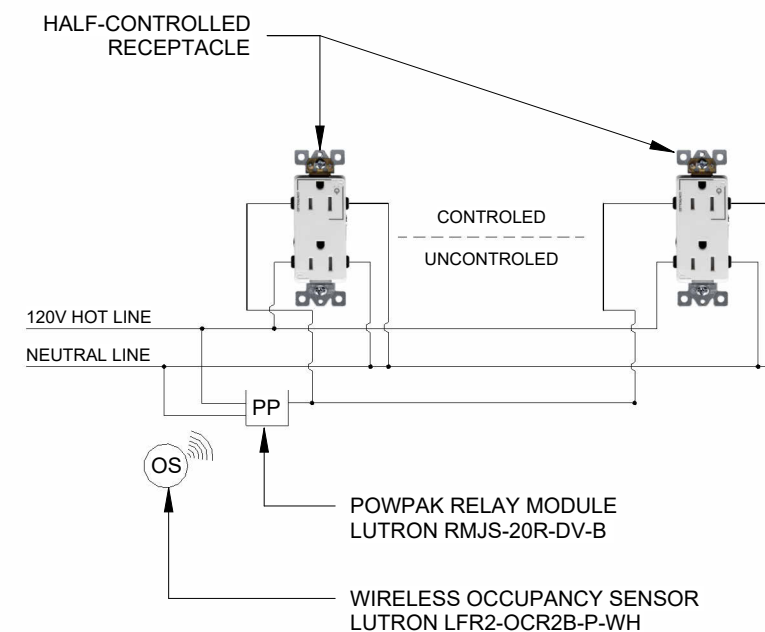
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Engineering	Public Works
Fire	Traffic

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PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH		DRAWING TITLE: FIRE RISER DIAGRAM		
CLIENT: CASCADE CHRISTIAN SCHOOL		PROJECT NO: 1107994	DRAWING NO: EM302	REV. # C



1 LIGHTING CONTROL DIAGRAM  
1/8" = 1'-0"



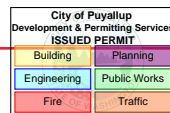
2 RECEPTACLE CONTROL DIAGRAM  
1/8" = 1'-0"



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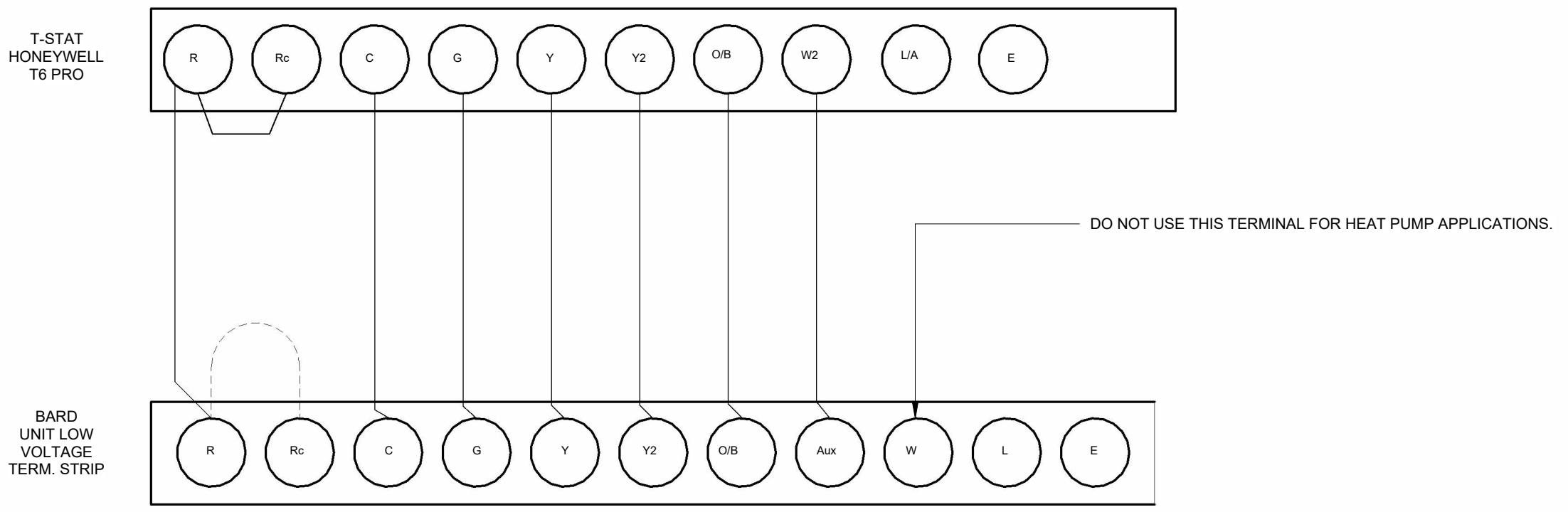
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PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH		DRAWING TITLE: ELECTRICAL DETAILS		
CLIENT: CASCADE CHRISTIAN SCHOOL	PROJECT NO: 1107994	DRAWING NO: EM500	REV. # C	

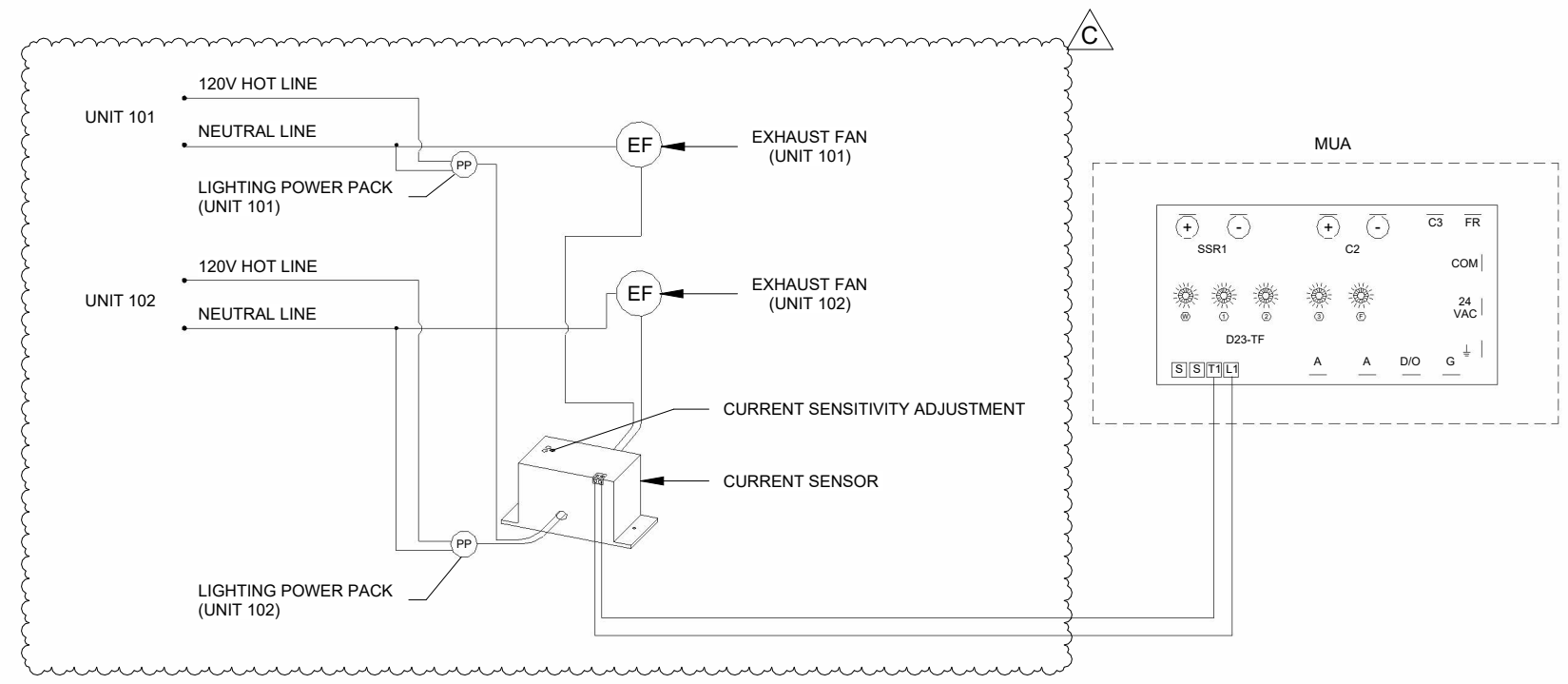
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11x17 Titleblock R2024.1



1 BARD CONNECTION  
1/4" = 1'-0"



2 MUA CONTROL DIAGRAM  
1/8" = 1'-0"



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PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH

CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: ELECTRICAL DETAILS

PROJECT NO: 1107994  
DRAWING NO: EM501  
REV. #: C



LIGHTING POWER DENSITY (LPD)					
SL NO.	ROOM NAME	AREA(ft2)	LIGHTING FIXTURE	WATTAGE	LPD(watt/ft2)
1	FEMALE WASHROOM	291	COOPER LIGHTING 24FP4740C	82.8	0.28
2	MALE WASHROOM	288	COOPER LIGHTING 24FP4740C	82.8	0.29
3	CLASSROOM	800	COOPER LIGHTING 24FP4740C	331.2	0.41
4	CORRIDOR	132	COOPER LIGHTING 24FP4740C	41.4	0.31
5	MECH. ROOM	48.4	COOPER LIGHTING 24FP4740C	41.4	0.86

C

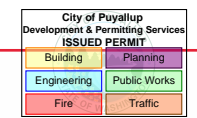


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REV.	DATE	DESCRIPTION	BY	CHK/APR
C	2025-04-17	RE-ISSUED FOR STATE APPROVAL	OS	KG
B	2024-10-23	RE-ISSUED FOR STATE APPROVAL	OS	AH
A	2024-06-07	ISSUED FOR STATE APPROVAL	DB	

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH  
CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: LPD CALCULATIONS  
PROJECT NO: 1107994  
DRAWING NO: EM603  
REV. #: C

28X64 CLASS WASH (UNIT-102) - MP-1							
VOLTAGE SYSTEM 120/240, 1 PHASE, 60Hz							
1. GENERAL LIGHTING LOAD*			472 ft <sup>2</sup>	x		3	va/ft <sup>2</sup> = 1416 va
							<b>Sub-total = 1416 va</b>
2. Application of demand factor							
RECEPTACLES			3	x		180	= 540 va
Sub-total							= 1956 va
	Qty.	Unit Load	Connected Load		Demand Factor	Demanded Load	
3. BARD-1 (HEATING ELEMENT)	1	8000	8000 va		125%	10000.00	= 10000.00 va
BARD ASSEMBLY		2151	2151 va		100%	2151.00	= 2,151.00 va
4. BARD-2 (HEATING ELEMENT)	1	10000	10000 va		125%	12500.00	= 12500.00 va
BARD ASSEMBLY		2314	2314 va		100%	2314.00	= 2,314.00 va
5. BBH-1	1	300	300 va		100%	300.00	= 300.00 va
6. BBH-2	1	500	500 va		100%	500.00	= 500.00 va
7. WATER HEATER	1	3000	3000 va		100%	3000.00	= 3,000.00 va
8. MUA	1	6000	6000 va		100%	6000.00	= 6,000.00 va
9. HEAT TRACE	1	200	200 va		100%	200.00	= 200.00 va
10. LP-1	1	9076	9076 va		100%	9076.00	= 9,076.00 va
<b>TOTAL DEMANDED LOAD</b>							<b>= 47997 va</b>
<b>Calculations:</b>		47997 / 240	=		<b>200</b>	<b>AMPERES</b>	Note: * This is the general lighting load served by this panel Unit 102.
<b>Overcurrent Device:</b>							<b>200AT, 2P, 240V, 60Hz</b>
<b>Feeder Size:</b>							<b>3C#3/0 AWG Copper THW Type + 1C #4 AWG BCW (Site Supplied and Site Installed - by Others)</b>
<b>Conduit Size:</b>							<b>2" Diameter Sched. 40 Rigid PVC</b>

C

28X64 CLASS WASH (UNIT-101) - LP-1							
VOLTAGE SYSTEM 120/240, 1 PHASE, 60Hz							
1. GENERAL LIGHTING LOAD*			1292 ft <sup>2</sup>	x		3	va/ft <sup>2</sup> = 3876 va
							<b>Sub-total = 3876 va</b>
2. Application of demand factor							
RECEPTACLES			15	x		180	= 2700 va
Sub-total							= 6576 va
	Qty.	Unit Load	Connected Load		Demand Factor	Demanded Load	
3. FFH-1	1	2000	2000 va		100%	2000.00	= 2000.00 va
4. BBH-2	1	500	500 va		100%	500.00	= 500.00 va
<b>TOTAL DEMANDED LOAD</b>							<b>= 9076 va</b>
<b>Calculations:</b>		9076 / 240	=		<b>38</b>	<b>AMPERES</b>	Note: * This is the general lighting load served by this panel Unit 101 & 102.
<b>Overcurrent Device:</b>							<b>60AT, 2P, 240V, 60Hz</b>
<b>Feeder Size:</b>							<b>3C#6 AWG Copper THW Type + 1C #8 AWG BCW</b>
<b>Conduit Size:</b>							<b>1-1/2" Diameter EMT</b>



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Development & Permitting Services  
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Building

Planning

Engineering

Public Works

Fire

Traffic

REV.	DATE	DESCRIPTION	BY	CHK/APR
C	2025-04-17	RE-ISSUED FOR STATE APPROVAL	OS	KG
B	2024-10-23	RE-ISSUED FOR STATE APPROVAL	OS	AH
A	2024-07-20	RE-ISSUED FOR STATE APPROVAL	OS/DB	AH

<b>PROJECT:</b>	28x64 ASL USA SR FLEET OFFICE WASH
<b>CLIENT:</b>	CASCADE CHRISTIAN SCHOOL

<b>DRAWING TITLE:</b> LOAD CALCULATIONS	
<b>PROJECT NO:</b> 1107994	<b>DRAWING NO:</b> EM604
<b>REV. #</b> C	

### DRAWING LIST - MECHANICAL MANUFACTURING

SHEET NUMBER	SHEET NAME
MM001	MECHANICAL DRAWING LIST & GENERAL INFORMATION
MM002	MECHANICAL SCHEDULES
MM003	MECHANICAL SCHEDULES 2
MM101	OVERALL HVAC PLAN - LEVEL 1
MM301	OVERALL PLUMBING PLAN - LEVEL 1
MM310	PLUMBING DETAILS
Grand total: 6	

- NOTES:**
- MECHANICAL SYSTEMS AND EQUIPMENT SERVING HEATING, COOLING, VENTILATING, AND OTHER NEEDS SHALL COMPLY WITH SECTION WSEC NREC C403.2 (REFERRED TO AS THE MANDATORY PROVISIONS)
  - EQUIPMENT SHALL MEET THE MINIMUM EFFICIENCY REQUIREMENTS OF TABLES C403.3.2(1)
  - PACKAGED ELECTRIC EQUIPMENT PROVIDING BOTH HEATING AND COOLING WITH A TOTAL COOLING CAPACITY GREATER THAN 6,000 BTU/H SHALL BE A HEAT PUMP. C403.3.2.6
  - THE SUPPLY OF HEATING AND COOLING ENERGY TO EACH ZONE SHALL BE CONTROLLED BY INDIVIDUAL THERMOSTATIC CONTROLS CAPABLE OF RESPONDING TO TEMPERATURE WITHIN THE ZONE. AT A MINIMUM, EACH FLOOR OF A BUILDING SHALL BE CONSIDERED AS A SEPARATE ZONE. C403.4.1
  - UNITARY AIR COOLED HEAT PUMPS SHALL INCLUDE MICROPROCESSOR CONTROLS THAT MINIMIZE SUPPLEMENTAL HEAT USAGE DURING START-UP, SET-UP, AND DEFROST CONDITIONS. THESE CONTROLS SHALL ANTICIPATE NEED FOR HEAT AND USE COMPRESSION HEATING AS THE FIRST STAGE OF HEAT. CONTROLS SHALL INDICATE WHEN SUPPLEMENTAL HEATING IS BEING USED THROUGH VISUAL MEANS (E.G. LED INDICATORS). HEAT PUMPS EQUIPPED WITH SUPPLEMENTARY HEATERS SHALL BE INSTALLED WITH CONTROLS THAT PREVENT SUPPLEMENTAL HEATER OPERATION ABOVE 40°F. C403.4.1
  - SETPOINT OVERLAP RESTRICTIONS. WHERE USED TO CONTROL BOTH HEATING AND COOLING, ZONE THERMOSTATIC CONTROLS SHALL PROVIDE A TEMPERATURE RANGE OR DEADBAND OF AT LEAST 5°F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING ENERGY TO THE ZONE IS CAPABLE OF BEING SHUT OFF OR REDUCED TO A MINIMUM. C403.4.1
  - FOR ALL OCCUPANCIES OTHER THAN GROUP R, EACH ZONE SHALL BE PROVIDED WITH THERMOSTATIC SETBACK CONTROLS THAT ARE CONTROLLED BY EITHER AN AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROL SYSTEM. C403.4.1
  - THERMOSTATIC SETBACK CONTROLS SHALL HAVE THE CAPABILITY TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURE DOWN TO 55°F OR UP TO 85°F. C403.4.1
  - AUTOMATIC TIME CLOCK OR PROGRAMMABLE CONTROLS SHALL BE CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK AND RETAINING THEIR PROGRAMMING AND TIME SETTING DURING A LOSS OF POWER FOR AT LEAST 10 HOURS. ADDITIONALLY, THE CONTROLS SHALL HAVE A MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS; A MANUALLY OPERATED TIMER CAPABLE OF BEING ADJUSTED TO OPERATE THE SYSTEM FOR UP TO 2 HOURS; OR AN OCCUPANCY SENSOR. C403.4.1
  - AUTOMATIC START CONTROLS SHALL BE PROVIDED FOR EACH HVAC SYSTEM. THE 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. C403.4.1
  - BOTH OUTDOOR AIR SUPPLY AND EXHAUST DUCTS SHALL BE EQUIPPED WITH MOTORIZED DAMPERS THAT WILL AUTOMATICALLY SHUT WHEN THE SYSTEMS OR SPACES SERVED ARE NOT IN USE OR DURING BUILDING WARM-UP, COOLDOWN, AND SETBACK. GRAVITY DAMPERS IN LIEU OF MOTORIZED DAMPER C403.7.8.1
  - VENTILATION, EITHER NATURAL OR MECHANICAL, SHALL BE PROVIDED IN ACCORDANCE WITH CHAPTER 4 OF THE INTERNATIONAL MECHANICAL CODE. WHERE MECHANICAL VENTILATION IS PROVIDED, THE SYSTEM SHALL PROVIDE THE CAPABILITY TO REDUCE THE OUTDOOR AIR SUPPLY TO THE MINIMUM REQUIRED BY CHAPTER 4 OF THE INTERNATIONAL MECHANICAL CODE.
  - DUCTWORK SHALL BE CONSTRUCTED AND ERECTED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE. C403.10.1
  - ALL LONGITUDINAL AND TRANSVERSE JOINTS, SEAMS AND CONNECTIONS OF SUPPLY AND RETURN DUCTS OPERATING AT A STATIC PRESSURE LESS THAN OR EQUAL TO 2 INCHES OF WATER GAUGE (W.G.) (500 PA) SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS EMBEDDED-FABRIC SYSTEMS OR TAPES INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PRESSURE CLASSIFICATION SPECIFIC TO THE DUCT SYSTEM SHALL BE CLEARLY INDICATED ON THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE. C403.10.2
  - COMMISSIONING FOR MECHANICAL EQUIPMENT, MECHANICAL CONTROLLED EQUIPMENT INCLUDING AND FINAL COMMISSIONING REPORT REQUIRED AFTER SITE COMPLEXING
  - AIR BALANCING REPORT TO BE SUBMITTED TO OWNER AFTER COMPLEXING
  - CLOSE OUT DOCUMENTATION (INCLUDING RECORD DOCUMENTS, O&M MANUALS, WSEC COMPLIANCE REPORTS) AND TRAINING OF BUILDING OPERATION FOR ALL MECHANICAL COMPONENTS REQUIRED AFTER COMPLEXING ON SITE

### MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	T-BAR CEILING DIFFUSER, NECK SIZE AS SHOWN.
	LAY-IN EGGCRATE RETURN AIR GRILLE.
	FLEXIBLE DUCT, SIZE TO MATCH DIFFUSER NECK SIZE.
	DUCT TAKE-OFF C/W BALANCING DAMPER. DUCT SIZE TO MATCH DIFFUSER NECK SIZE.
	SUPPLY/RETURN AIR GALV. DUCTWORK
	DUCT WITH EXTERNAL INSULATION
	DUCT WITH INTERNAL INSULATION / LINING
	WALL MOUNTED THERMOSTAT
	FIRE DAMPER
	DUCT REDUCERS, SIZES AS SHOWN.
	FIRE EXTINGUISHER
	DIFFUSER GRILL OR REGISTER TYPE  NECK OR FACE SIZE AIR FLOW IMPERIAL:CFM (IN) METRIC:L/S(MM)
	MECH. EQUIPMENT TAG 
	6 ← DETAIL NUMBER MM101 ← DRAWING NUMBER

### PLUMBING LEGEND

SYMBOL	DESCRIPTION
	DRAINAGE PIPING
	VENT PIPING
	COLD WATER PIPING
	HOT WATER PIPING

### MECHANICAL ABBREVIATIONS

ABBREVIATION	DEFINITION
AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
CWSR	CLOTHES WASHER
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RECIRC
DW	DISH WASHER
E/A	EXHAUST AIR
FD	FIRE DAMPER
FIM	FREE ISSUED MATERIAL
NFHB	NON-FREEZE HOSE BIBB
PL	REFRIGERANT PIPING LIQUID
PSPI	PLANT SUPPLIED PLANT INSTALLED
PSSI	PLANT SUPPLIED SITE INSTALLED
R/A	RETURN AIR
RS	REFRIGERANT PIPING SUCTION
S/A	SUPPLY AIR
SAN	SANITARY PIPING
SD	SMOKE DAMPER
SSSI	SITE SUPPLIED SITE INSTALLED
T/A	TRANSFER AIR
VENT	VENTING PIPING

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REV.	DATE	DESCRIPTION	BY	CHK/APR
2	2024-10-29	RE-IFC (STATE COMMENTS)	RB	AH
1	2024-07-22	RE-IFC (FOUNTAIN ROUGHIN)	RB	AH
B	2024-07-21	REISSUED FOR STATE APPROVAL	RB	AH
0	2024-07-17	ISSUED FOR CONSTRUCTION	RB	AH
A	2024-06-07	ISSUED FOR STATE APPROVAL	RB	AH

PROJECT:	28x64 ASL USA SR FLEET OFFICE WASH
CLIENT:	CASCADE CHRISTIAN SCHOOL

DRAWING TITLE:		MECHANICAL DRAWING LIST & GENERAL INFORMATION	
PROJECT NO:	1107994	DRAWING NO:	MM001
REV. #	2		

PLOT DATE: 2025-04-25 10:09:40 AM

### BARD UNIT SCHEDULE

TAG	QTY.	DESCRIPTION	MANUFACTURER	MODEL	SOURCE	HEATING INPUT/OUTPUT (BTUH)	COOLING CAPACITY (TON)	SUPPLY AIR FLOW (CFM)	E.S.P. ("W.C.)	OUTSIDE AIR (CFM)	ELECTRICAL				REMARKS
											FAN POWER (HP)	VOLTAGE (V)	PHASE	FREQUENCY (HZ)	
BARD-1	1	WALL MOUNTED HEAT PUMP 2 TON COOLING WITH 8KW HEATING	BARD	W24HF-A08ZP4XXX	ELECTRIC	27303	2	800	0.5		0.3	230	1	60	T6 PRO 2 STAGE THERMOSTAT, 11.3 EER, 3.3 COP, ECM MOTOR, NIGHT SETBACK TEMP 55°F ECONOMIZER
BARD-2	1	WALL MOUNTED HEAT PUMP 2.5 TON COOLING WITH 10KW HEATING	BARD	W30HF-A10RP4XXR	ELECTRIC	34130	2.5	950	0.15		1/2	230/208	1	60	T6 PRO 2 STAGE THERMOSTAT, 11 EER, 3.3 COP, ENERGY RECOVERY VENTILATOR

### BASEBOARD HEATER SCHEDULE

TAG	QTY	DESCRIPTION	MANUFACTURER	MODEL	HEATING CAPACITY (W)	ELECTRICAL		REMARKS
						VOLTAGE (V)	PHASE	
BBH-1	1	ELECTRIC BASEBOARD HEATER	OUELLET	OFM0300	225	240/208	1	C/W INTEGRAL THERMOSTAT
BBH-2	2	ELECTRIC BASEBOARD HEATER	OUELLET	OFM0500	375	240/208	1	C/W INTEGRAL THERMOSTAT

### DIFFUSER AND GRILLE SCHEDULE

TAG	QTY	DESCRIPTION	MANUFACTURER	MODEL	SIZE (INCH)	FINISH
R-1	3	TRANSFER AIR GRILLE	DAYUS	DARH	12"x24"	WHITE
S-1	11	SUPPLY AIR SQUARE CEILING DIFFUSER, FIXED PATTERN, STEEL	NAILOR	RNS3	8"ø	WHITE
S-2	1	TRANSFER AIR GRILLE	DAYUS	DARH	8"x8"	WHITE

### DUCT ACCESSORY SCHEDULE

TAG	QTY	MANUFACTURER	SIZE	DESCRIPTION	REMARKS
HOOD-1	1	BUDRICH	4"ø	DUCT - EXHAUST WALL CAP	BACKDRAFT DAMPER AND BIRDSCREEN
HOOD-2	2	BUDRICH	8"ø	DUCT - EXHAUST WALL CAP	BACKDRAFT DAMPER AND BIRDSCREEN
HOOD-3	1	BUDRICH	8"ø	DUCT - INTAKE WALL CAP	WITH BIRDSCREEN

### ELECTRIC FORCE FLOW SCHEDULE

TAG	QTY.	DESCRIPTION	MANUFACTURER	MODEL	HEATING CAPACITY (kW)	ELECTRICAL		REMARKS
						VOLTAGE (V)	PHASE	
FFH-1	1	CEILING SURFACE MOUNTED ELECTRIC FORCE FLOW HEATER	OUELLET	OACP2000	2000/1500	240/208	1	TBAR MOUNTING KIT, OTH3000 REMOTE THERMOSTAT

### EXHAUST FAN SCHEDULE

TAG	QTY	DESCRIPTION	MANUFACTURER	MODEL	E.S.P. ("W.C.)	AIR FLOW (CFM)	SONES	OPERATION	ELECTRICAL				REMARKS
									AMPERAGE (A)	VOLTAGE (V)	PHASE	FREQUENCY (HZ)	
EF-1	1	CEILING MOUNTED EXHAUST FAN	BROAN	L300E	0.31	300	3.4	OCCUPANCY SENSOR	2.6	120	1	60	
EF-2	1	CEILING MOUNTED EXHAUST FAN	BROAN	L250E	0.25	250	2.9	OCCUPANCY SENSOR	2.1	120	1	60	
EF-4	1	CEILING MOUNTED EXHAUST FAN	ORTECH	ODM-5004	0.1	50	0.4	OCCUPANCY SENSOR	0.13	120	1	60	

### MAKE UP AIR UNIT SCHEDULE

TAG	QTY	DESCRIPTION	MANUFACTURER	MODEL	SOURCE	SUPPLY AIR FLOW (CFM)	HEATING INPUT/OUTPUT	ELECTRICAL			NOTES
								VOLTAGE (V)	PHASE	FREQUENCY (HZ)	
MUA-1	1	MINI MAKE UP AIR UNIT	THERMOLEC	FER-8-6-240/1	ELECTRIC	300	20477	240	1	60	MUA IS CONTROLLED BY CURRENT SENSOR CONNECTED TO WASHROOM EXHAUST FAN

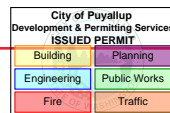
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REV.	DATE	DESCRIPTION	BY	CHK/APR
B	2025-04-22	RE-ISSUED FOR STATE APPROVAL	JO	AH
A	2024-06-07	ISSUED FOR STATE APPROVAL	RB	

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH

DRAWING TITLE: MECHANICAL SCHEDULES

CLIENT: CASCADE CHRISTIAN SCHOOL

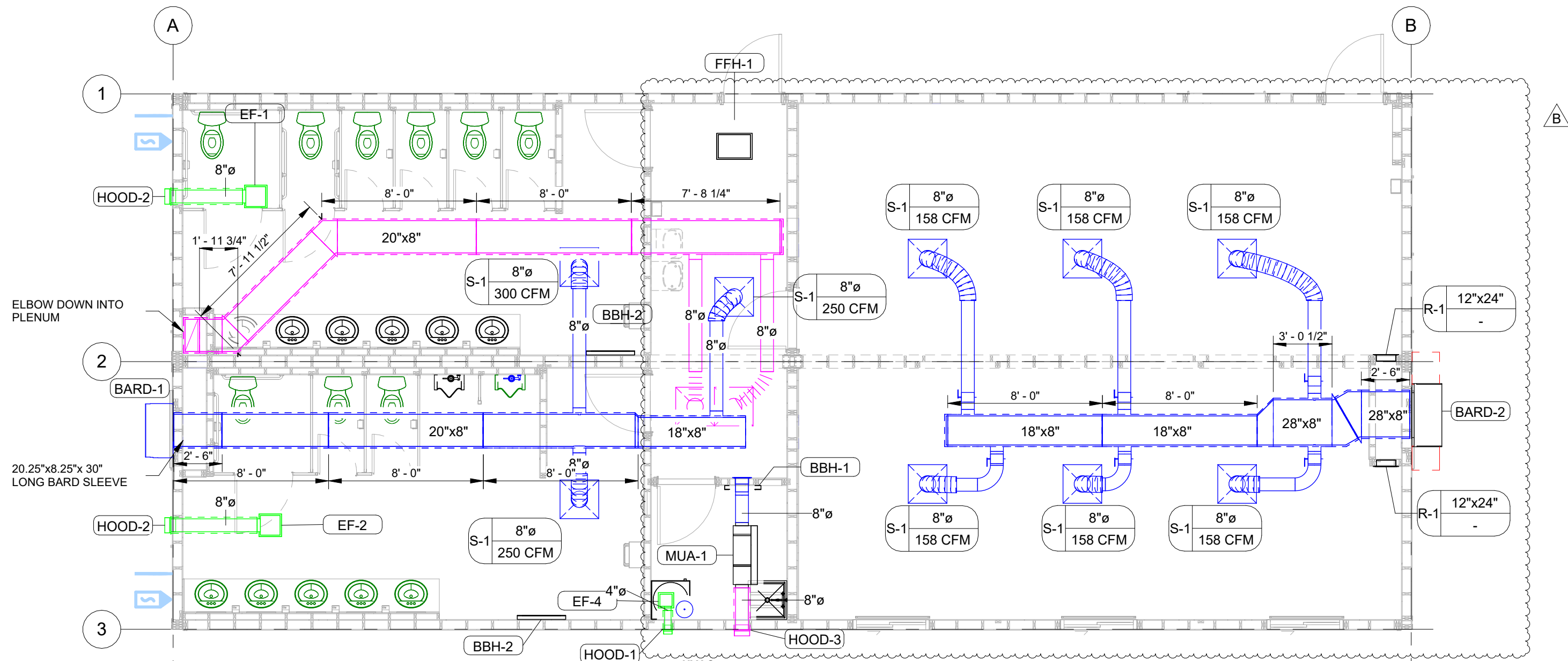
PROJECT NO: 1107994

DRAWING NO: MM002

REV. # B

PRPF20250508





1 OVERALL HVAC PLAN  
3/16" = 1'-0"

HEAT/COOL: BARD-1: WALL MOUNT 2 TON COOLING WITH 8 KW HEATING c/w ECONOMIZER (COLOR BUCKEYE GRAY)  
BARD-2: WALL MOUNT 2.5 TON COOLING WITH 8KW HEATING c/w ERV (COLOR BUCKEYE GRAY)

W/ BUILT-IN DISCONNECT  
AC W/ ELECTRICAL HEAT  
NOTE: OUTDOOR INTAKE AIR DAMPER TO BE IN CLOSED POSITION FOR SHIPPING  
NOTE: INTAKE AIR DAMPER MUST BE ADJUSTED ON SITE FOR PROPER AIRFLOW - SEE HVAC UNIT OPERATING INSTRUCTIONS.

SUPPLY DUCT: SINGLE 1" FIBERGLASS DUCTBOARD UNDER ROOF, FLEXIBLE BRANCH DUCT WITH BALANCING DAMPERS, LOW PRESSURE DUCT  
RETURN DUCT: SINGLE 1" FIBERGLASS DUCTBOARD UNDER ROOF, FLEXIBLE BRANCH DUCT, LOW PRESSURE DUCT  
EXHAUST DUCT: SHEET METAL OR FLEXIBLE DUCTWORK WITH R-5 INSULATION  
MUA DUCT: SHEET METAL DUCTWORK. INTAKE DUCT WITH R-5 INSULATION  
DIFFUSERS: 24X24 TBAR LAY-IN (CEILING)  
RETURN AIR: 24X24 TBAR LAY-IN (CEILING)  
THERMOSTAT: PROGRAMMABLE FOR CENTRAL HVAC UNIT - UP 48"  
NOTE: ALL DUCTWORK CONSTRUCTION TO COMPLY WITH IMC  
NOTE: ALL RELIEF, OUTSIDE AIR INTAKES AND EXHAUST OPENINGS PROVIDED WITH DAMPERS.  
NOTE: ALL COMMISSIONING IF REQUIRED TO BE DONE ON SITE



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

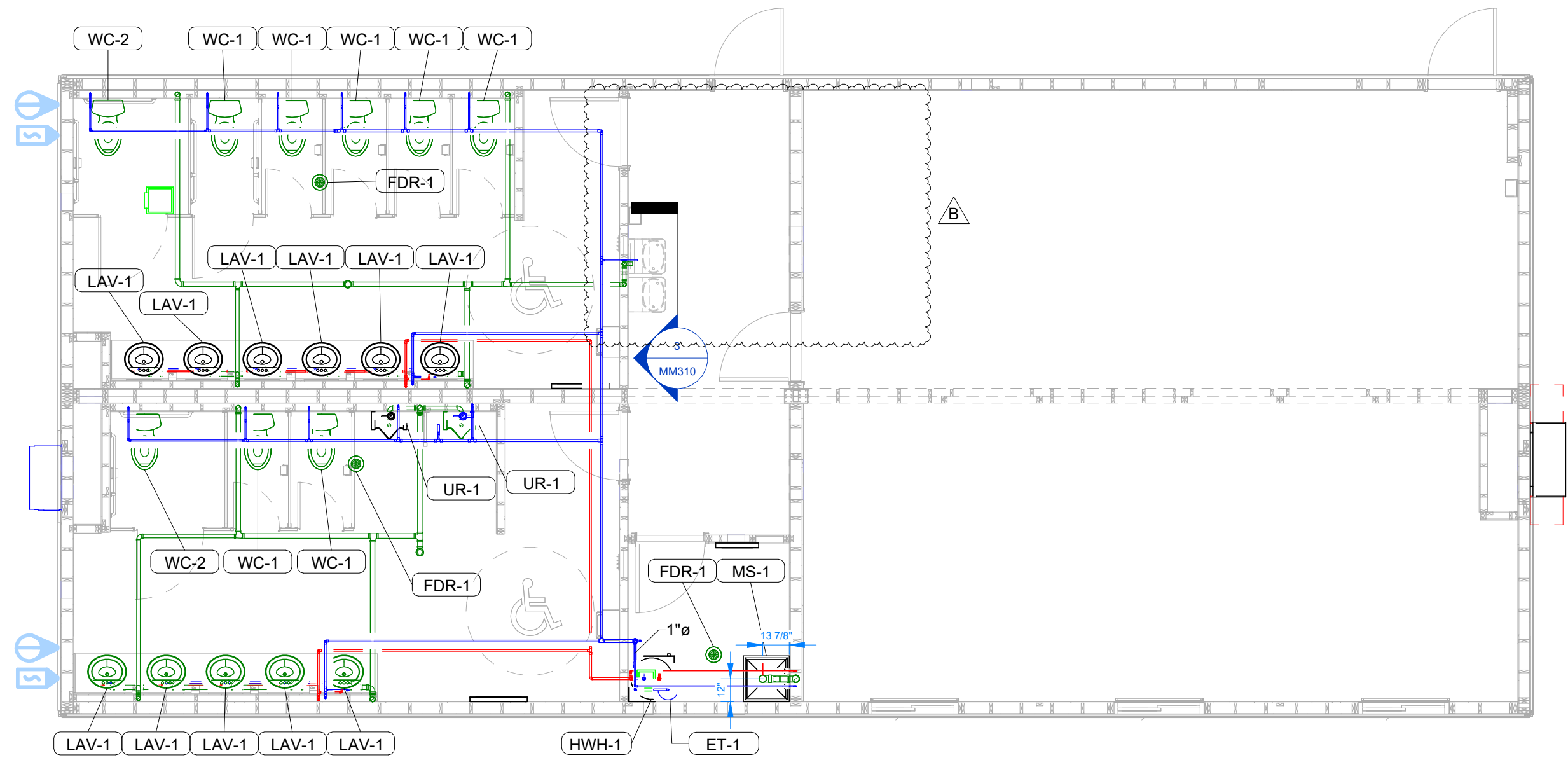
REV.	DATE	DESCRIPTION	BY	CHK/APR
B	2025-04-22	RE-ISSUED FOR STATE APPROVAL	JO	AH
A	2024-06-07	ISSUED FOR STATE APPROVAL	RB	

PROJECT: 28x64 ASL USA SR FLEET OFFICE WASH

CLIENT: CASCADE CHRISTIAN SCHOOL

DRAWING TITLE: OVERALL HVAC PLAN - LEVEL 1	
PROJECT NO: 1107994	DRAWING NO: MM101
REV. # B	

PRPF20250508



1 OVERALL PLUMBING PLAN  
3/16" = 1'-0"

PLUMBING GENERAL NOTES

1. ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER THE 2021 WASHINGTON STATE PLUMBING CODE.
2. ALL VALVES, UNIONS, ETC. TO BE THE SAME SIZE AS LINE SIZE UNLESS OTHERWISE NOTED.
3. ALL WASTE AND VENT PIPING SHALL BE SLOPED AT 1/4" PER FOOT.
4. EACH PLUMBING VENT SHALL TERMINATE ABOVE ROOF AND NOT LESS THAN TEN (10) FEET FROM OR AT LEAST THREE (3) FEET ABOVE ANY WINDOW, DOOR, OPENING OR AIR INTAKE.
5. ALL DRAINAGE PIPING TO BE CONCEALED WHERE POSSIBLE.
6. ALL COLD AND HOT WATER DOMESTIC PIPING TO BE TYPE "PEX"
7. ALL WASTE, VENT DRAINAGE LINES AND FITTINGS TO BE PVC, SCH 40.
8. SUPPORT FOR PEX PIPE LESS THAN 1" SHALL BE EVERY 32".
9. SUPPORT FOR PVC PIPE SHALL BE EVERY 48".
10. ALL DRAINAGE PVC & PEX PIPE STUBBED TO UNDERSIDE OF STRUCTURAL FLOOR WITH MAIN SANITARY & DOMESTIC FOR SITE CONNECTION, HARNESS & INSULATION, BY OTHERS ON-SITE.
11. SITE SETUP TEAM TO COORDINATE WITH SANITARY & WATER INLET PENETRATIONS.
12. ALL PLUMBING FITTINGS AND HOT WATER HEATER TO HAVE SHUT OFF VALVES.
13. DESIGN WATER PRESSURE 55 PSI, DEVELOPED LENGTH ESTIMATED AT 70 FT.
14. NO INTERIOR PLUMBING INSULATION REQUIRED. EXTERIOR SANITARY HEAT TRACING AND INSULATION TO BE INSTALLED AS DETERMINED BY SITE INSTALLERS.

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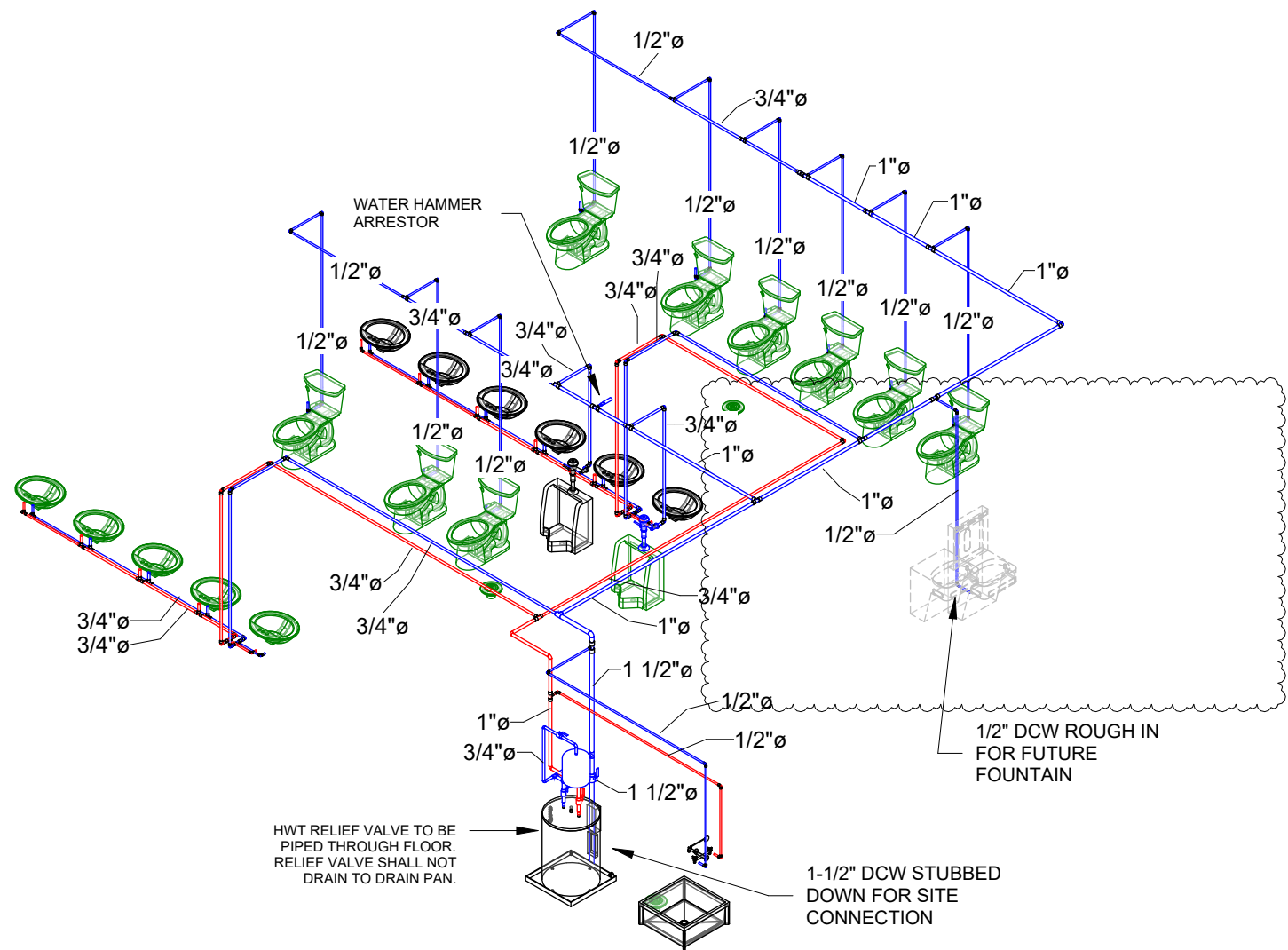
City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

REV.	DATE	DESCRIPTION	BY	CHK/APR
B	2025-04-22	RE-ISSUED FOR STATE APPROVAL	JO	AH
A	2024-06-07	ISSUED FOR STATE APPROVAL	RB	

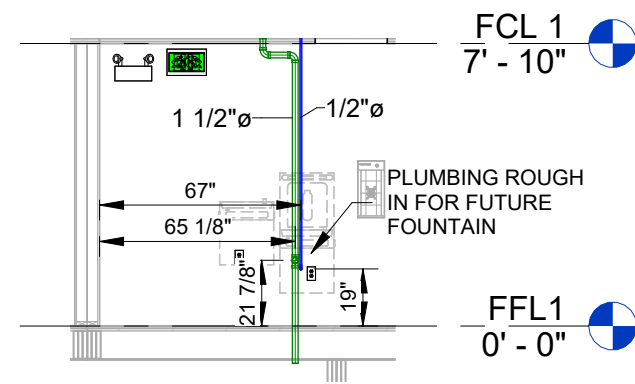
PROJECT:  
28x64 ASL USA SR FLEET  
OFFICE WASH

CLIENT:  
CASCADE CHRISTIAN SCHOOL

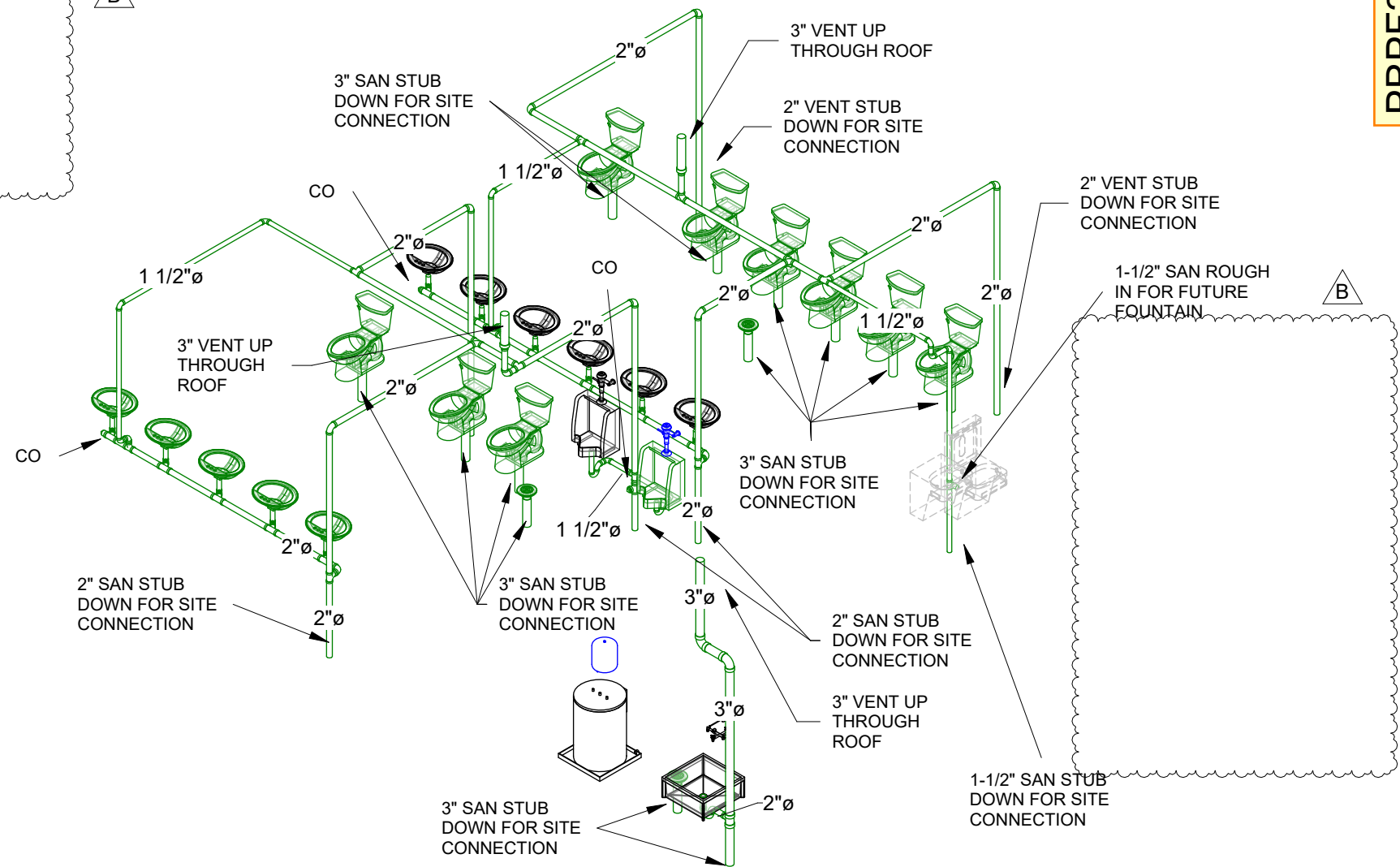
DRAWING TITLE: OVERALL PLUMBING PLAN - LEVEL 1	
PROJECT NO: 1107994	DRAWING NO: MM301
REV. # B	



1 POTABLE WATER ISO



3 PLUMBING SECTION  
3/16" = 1'-0"

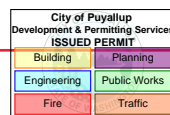


2 SANITARY/VENT ISO



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11x17 SHEET - DO NOT PRINT TO OTHER SCALE

REFERENCE DRAWING APPROVED BY THE STATE



REV.	DATE	DESCRIPTION	BY	CHK/APR
B	2025-04-22	RE-ISSUED FOR STATE APPROVAL	JO	AH
A	2024-06-07	ISSUED FOR STATE APPROVAL	RB	

PROJECT:	28x64 ASL USA SR FLEET OFFICE WASH		DRAWING TITLE:	PLUMBING DETAILS			
CLIENT:	CASCADE CHRISTIAN SCHOOL	PROJECT NO:	1107994	DRAWING NO:	MM310	REV. #	B