

# CASCO BAY HIGH SCHOOL EXPANSION **CONSTRUCTION DOCUMENTS** OWNER:

## PORTLAND PUBLIC SCHOOLS

## **ARCHITECT:**



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## CONSULTANTS:

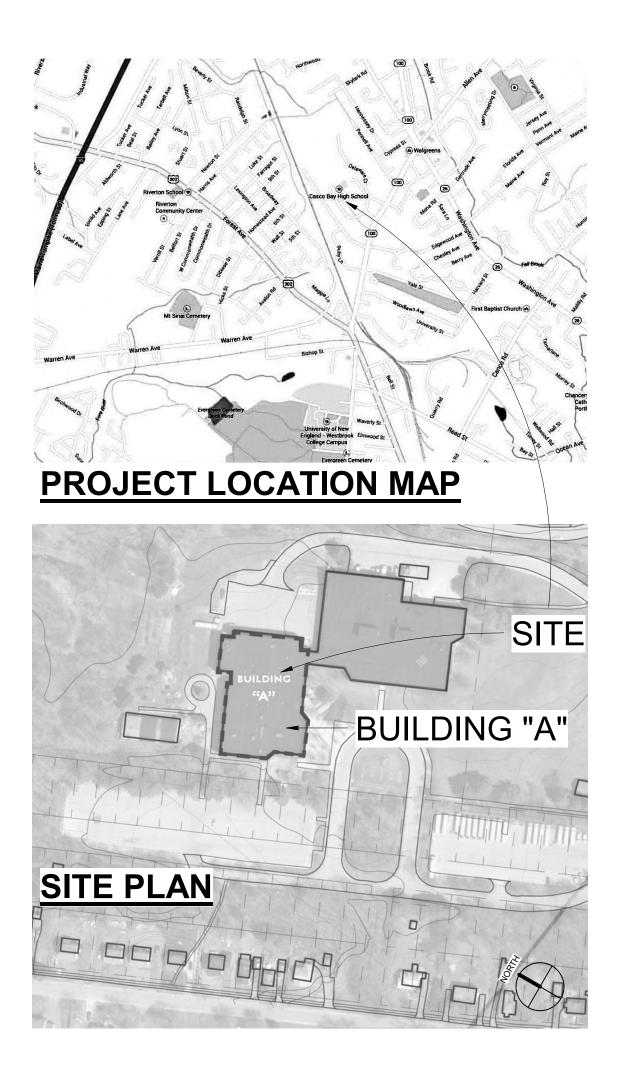
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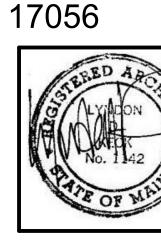
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# **BID DOCUMENTS** March 20, 2018



# 196 Allen Avenue Portland, ME





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Sheet		
Number		Shee
Architectural		
A001	General	Notes & Typical Assembl
A002	Life safe	
A003	Site Acc	ess Plan
AD.1	Demoliti	ion Plans
A101	Floor Pl	ans
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Structural		
S000		Structural-General Inform
S000		Structural Typical Details
SB100		Structural-Foundation Pla
SF100		Structural Framing Plan
SF500		Structural Details
Civil		
C1		Site plan
Mechanical		
M-000		Mechanical Notes, Ledge
MD-100		Mechanical Demo
M-100		Mechanical Plan
M-500		Mechanical Schedules, D
Electrical		
E100		Electrical General Notes
EL100		Lighting Plan
EP100		Power and System Plans
E500		Eletrical Schedules and [





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THESE GENERAL NOTES ARE INTENDED TO COMPLIMENT THE

CONTRACT DOCUMENTS. REFER TO THE CONTRACT DOCUMENTS FOR

DETAILED INFORMATION AND ADDITIONAL REQUIREMENTS.

PROJECT GENERAL NOTES

2. ALL WORK INCLUDED IN THIS CONTRACT SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL LAWS, STATUTES, ORDINANCES, CODES, RULES AND REGULATIONS, OR LAWFUL ORDERS OF PUBLIC AUTHORITY. PROMPTLY REPORT ANY NONCONFORMITY DISCOVERED TO THE ARCHITECT.

3. THE INTENT OF THE CONTRACT DOCUMENTS IS TO INCLUDE ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF WORK BY THE CONTRACTOR AND TO PROVIDE A COMPLETE, FULLY OPERATIONAL BUILDING. PROVIDE ALL LABOR, MATERIALS AND INCIDENTALS NECESSARY TO ACHIEVE THIS INTENT.

4. FAILURE OF THE DRAWINGS OR SPECIFICATIONS TO INDICATE EACH INCIDENTAL SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING THE NECESSARY ITEMS AS PART OF THIS CONTRACT. THE DRAWINGS SHOW THE DESIGN, LOCATION, DESCRIBE THE QUALITY LEVEL AND CONSTRUCTION TECHNIQUES IN A GENERAL SENSE ONLY.

5. ALL DETAILS ARE TYPICAL. WHAT IS SHOWN IN ONE CONDITION APPLIES TO ALL OTHER SIMILAR CONDITIONS, UNLESS NOTED OTHERWISE.

6. VERIFY THE FOLLOWING ITEMS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO PROCEEDING WITH WORK, AND PROCEED WITH THE WORK ONLY AFTER SUCH DISCREPANCIES ARE RESOLVED:

- EXISTING CONDITIONS WALLS, FLOORS, ROOFS, AND SUBSTRATES WHERE PRODUCTS AND • SYSTEMS ARE TO BE INSTALLED.
- SIZE AND CONDITION OF WINDOW, DOOR, LOUVER, AND OTHER OPENINGS WHERE PRODUCTS AND SYSTEMS ARE TO BE INSTALLED.
- THE EXISTENCE, SIZE, AND LOCATION OF ALL EXISTING UTILITIES, MECHANICAL AND ELECTRICAL SYSTEMS. DISCREPANCIES BETWEEN OR WITHIN THE CONTRACT DOCUMENTS.
- UNSUITABLE SOILS: REPORT THE LOCATION OF ALL UNSUITABLE SOIL MATERIALS BELOW ANTICIPATED LEVELS OF FOOTINGS OR SLABS PRIOR TO SETTING FORMS.
- MECHANICAL, ELECTRICAL AND PLUMBING WHICH IMPACT CEILING INSTALLATION HEIGHTS OR BUILDING THE APPEARANCE.
- DIMENSIONAL DISCREPANCIES. 7. COORDINATE THE WORK OF ALL SUBCONTRACTORS.

8. DO NOT PENETRATE STRUCTURAL BEAMS, COLUMNS, OR SHEAR WALLS UNLESS SPECIFICALLY DETAILED OTHERWISE.

### 9. PROVIDE BOND-OUTS, BLOCKING, SLEEVES AND PIPES AS REQUIRED FOR ALL WALL, FLOOR, ROOF, AND CEILING PENETRATIONS. MAINTAIN CONTINUITY OF FIRE RATED ASSEMBLIES AND SMOKE ASSEMBLIES. SEAL ALL PENETRATIONS TO CONFORM TO U.L. RATED

ASSEMBLIES AND ALL NFPA AND IBC REQUIREMENTS. REFER TO THE CODE PLANS FOR ADDITIONAL CODE REFERENCES. ALL PENETRATIONS SHALL COMPLY WITH THE ACOUSTICAL ASSEMBLY RATING REQUIRED FOR EACH WALL OR FLOOR ASSEMBLY.

**10.** COORDINATE THE WORK TO ACHIEVE THE GIVEN VISUAL AND PERFORMANCE REQUIREMENTS OF MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS WITHIN THE INDICATED SPACE.

**11.** PROVIDE WORK HOLES OR ADEQUATE ACCESS AS REQUIRED TO INSTALL NEW SYSTEMS IN CONCEALED SPACES.

**12.** PRODUCTS SHALL BEAR UL CLASSIFICATION WHERE REQUIRED BY DESIGN. DO NOT REMOVE OR PAINT OVER UL CLASSIFICATIONS.

### 13. DEFINITIONS: NEW: INDICATES ITEMS THAT SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACT. TYPICALLY USED TO ENSURE CLARITY BETWEEN VARIOUS COMPONENTS OF THE DRAWINGS. NOT ALL ITEMS ARE

- LABELED AS "NEW" WHEN IT IS OBVIOUS BY OTHER INDICATION. **EXISTING:** EXISTING BUILDING OR SITE COMPONENTS WHICH ARE IN PLACE AT THE START OF CONSTRUCTION. NOT ALL ITEMS ARE LABELED AS "EXISTING" WHEN IT IS OBVIOUS BY OTHER INDICATION. **REPAIR:** RESTORE TO SUITABLE OR APPROPRIATE OPERATING AND AESTHETIC CONDITION.
- **RESTORE:** BRING BACK TO FORMER CONDITION, BY REPAIRING OR PATCHING AS REQUIRED.
- PATCH: RESTORE TO CONDITION MATCHING EXISTING ADJACENT CONSTRUCTION, SURFACE TEXTURE AND FINISH. **N.I.C.** (NOT IN CONTRACT): WORK WHICH IS NOT INCLUDED IN THIS
- CONTRACT, BUT WHICH MAY REQUIRE CONTRACTOR COORDINATION. **REMOVE:** DISMANTLE AND/OR EXTRACT FROM THE PREMISES ENTIRELY.
- DISPOSE OF OFF OF THE SITE UNLESS NOTED OTHERWISE. **REPLACE:** DISMANTLE AND/OR EXTRACT FROM THE PREMISES
- ENTIRELY. DISPOSE OF OFF OF THE SITE UNLESS NOTED OTHERWISE. PROVIDE NEW MATERIAL AS INDICATED.
- DAMAGES: EXISTING BUILDING OR SITE COMPONENTS, NOT SCHEDULED FOR WORK, WHICH ARE DAMAGED. SUCH ELEMENTS AND COMPONENTS SHALL BE REPLACED OR RESTORED TO ORIGINAL CONDITION BY
- METHODS APPROVED BY THE ARCHITECT. **DEMOLISH:** DISMANTLE AND/OR EXTRACT FROM THE PREMISES

ENTIRELY. DISPOSE OF OFF OF THE SITE UNLESS NOTED OTHERWISE. **SALVAGE:** REMOVE AND REINSTALL OR REMOVE AND DELIVER TO THE OWNER, AS INDICATED. SALVAGED COMPONENTS MAY BE FOR LIMITED REUSE, TO MATCH EXISTING CONDITIONS OR TO PATCH AND REPAIR AS INDICATED.

### **GENERAL DEMOLITION AND REMOVAL NOTES**

1. THE DEMOLITION DRAWINGS PROVIDE GENERAL COORDINATION INFORMATION ONLY, AND ARE SCHEMATIC IN NATURE. THEY DO NOT IDENTIFY ALL INDIVIDUAL ITEMS TO BE REMOVED. REMOVE ANY EXISTING CONSTRUCTION WHICH IS IN THE WAY OF NEW CONSTRUCTION OR PROHIBITS THE NEW CONSTRUCTION. 2. VERIFY EXISTING STRUCTURAL CONDITIONS PRIOR TO DEMOLITION OR REMOVALS **3.** PROTECT FROM DAMAGE AND WEATHER ANY EXISTING BUILDING

COMPONENTS, WHICH ARE EXPOSED AS A RESULT OF DEMOLITION OR REMOVALS. 4. COORDINATE AND SCHEDULE ALL WORK IN EXISTING OCCUPIED

PORTIONS OF THE BUILDING WITH THE OWNER. 5. NOTIFY THE ARCHITECT AND OWNER IMMEDIATELY UPON DISCOVERY OF POTENTIALLY HAZARDOUS MATERIAL OR SUBSTANCE NOT ADDRESSED IN THE CONTRACT DOCUMENTS, INCLUDING BUT NOT LIMITED TO ASBESTOS, PCB, LEAD, MERCURY, AND MOLD. DO NOT DISTURB HAZARDOUS MATERIALS. HAZARDOUS MATERIAL SHALL BE LEGALLY ABATED, TRANSPORTED, AND DISPOSED OF.

6. CONCRETE SLAB REMOVALS MAY BE REQUIRED THROUGHOUT THE EXISTING BUILDING AND MAY NOT BE SHOWN ON THE DEMOLITION DRAWINGS. COORDINATE THE EXTENT OF SLAB REMOVALS WITH STRUCTURAL, MECHANICAL AND ELECTRICAL PLANS. CUT TRENCHES IN EXISTING CONCRETE FLOORS WITH NO MORE THAN A 1:2 SLOPE. PROVIDE AN UNDER-SLAB VAPOR RETARDER AT SLABS ON GRADE. REFER TO STRUCTURAL DRAWINGS FOR REINFORCEMENT REQUIREMENTS, PATCH CONCRETE TO MATCH ADJACENT THICKNESS AND FINISH PRIOR TO THE INSTALLATION OF UNDERLAYMENT OR NEW FINISHES.

7. REMOVAL OF MATERIALS SHALL BE DONE WITHOUT DISTURBING ADJACENT SURFACES OR THE CURRENT CONDITION OF OTHER BUILDING ELEMENTS INTENDED TO REMAIN.

**8.** THE OWNER SHALL REMOVE FURNITURE AND OTHER MOVABLE AND/OR FIXED EQUIPMENT PRIOR TO NEW WORK IN ANY AREA, EXCEPT FOR MECHANICAL, ELECTRICAL OR MINOR WORK NOT REQUIRING THE OWNER TO COMPLETELY VACATE THE PREMISES. NOTIFY THE OWNER OF THE SCHEDULE FOR NEW WORK AND EXTENT OF OWNER REMOVALS NECESSARY.

9. REMOVE ALL DAMAGED AND/OR DISCARDED BUILDING CONSTRUCTION MATERIAL FROM CONCEALED SPACES. PRIOR TO CLOSING- OR SEALING-OFF CONCEALED SPACES, THE CONTRACTOR SHALL ALLOW FOR AN INSPECTION OF COMPONENTS WHICH WILL NOT BE VISIBLE WHEN THE SPACES HAVE BEEN SEALED.

**10.** ALL DEMOLITION/REMOVAL DEBRIS IS THE PROPERTY OF THE CONTRACTOR, UNLESS NOTED OTHERWISE, AND SHALL BE LEGALLY DISPOSED

### **GENERAL PATCHING AND REPAIRING NOTES**

WHERE NEW CONSTRUCTION EITHER INFILLS OR ABUTS EXISTING CONSTRUCTION, THE FINISHED FACES SHALL ALIGN, AND THE SURFACES SHALL BE FINISHED TO MATCH.

**2.** AFTER CUTTING, FITTING, OR REMOVAL OF BUILDING COMPONENTS, ANY RESULTING HOLES SHALL BE PATCHED. SUCH PATCHES SHALL BE FLUSH WITH ADJACENT SURFACES AND FINISHED TO MATCH. 3. MAINTAIN FIRE RATINGS, SMOKE RATINGS, AND ACOUSTICAL RATINGS.

4. PROVIDE METAL COVER PLATES AT ALL ABANDONED ELECTRICAL DEVICES, FINISHED TO MATCH WALL.

DOOR AND WINDOW NOTES 1. AT EXTERIOR WALLS AND MASONRY WALLS, COAT THE INSIDE OF ALL HOLLOW METAL FRAMES WITH BITUMINOUS COATING.		<u>RAL NOTES</u> TECT ALL OPENINGS CUT IN THE ROOF. PRO BE UNFINISHED DURING ADVERSE WEATHE			MATERIAL	<u>S LEGEND</u>
<ul> <li>FILL ALL INTERIOR HOLLOW METAL FRAMES ADJACENT TO MASONRY WITH MORTAR.</li> </ul>	CONSTRUC <sup>®</sup> 2. PRO		S. PENETRA	TIONS MAY NOT BE	G	RAVEL
3. PACK MINERAL-FIBER INSULATION IN ALL INTERIOR HOLLOW METAL FRAMES IN STUD WALLS.	PLANS FOR 3. PRO	NUMBER, LOCATION, AND SIZE OF PENETRA	TIONS. CTION STRIF	PS ENTIRELY AROUND	c	DNCRETE MASONRY UNIT
<ol> <li>FILL ALL EXTERIOR METAL DOOR FRAMES WITH LOW-EXPANSION SPRAY- FOAM INSULATION.</li> <li>REFER TO SPECIFICATIONS FOR LOCATIONS OF TEMPERED, LAMINATED,</li> </ol>	WIDE, FROM	OP MECHANICAL UNITS AND CREATE A PROT I THE ROOF ACCESS LOCATION(S) TO EACH I TECT ROOFING MATERIALS FROM CONSTRU	MECHANICA	L UNIT.		
<ul><li>WIRED, AND INSULATING GLASS.</li><li>AT DOOR, WINDOW AND LOUVER OPENINGS IN EXTERIOR WALLS WITH</li></ul>	5. PRO	VIDE CURBS AND PRESSURE TREATED WOO OUNTED EQUIPMENT, UNLESS NOTES OTHE			В	RICK
<ul><li>MASONRY VENEER PROVIDE METAL PAN FLASHING AT HEADS UNLESS NOTED OTHERWISE.</li><li>7. PROVIDE METAL RAIN HOOD AT ALL EXTERIOR HOLLOW METAL FRAMES.</li></ul>		IRCULATION GENERAL NOTES	μαιί βε αβι			DNCRETE
8. PROVIDE DOOR STOPS TO PROTECT WALLS AT ALL LOCATIONS WHERE A DOOR SWING WILL STRIKE THE WALL.	A HORIZONT	AL LOAD OF 250 POUNDS AT ANY POINT.				ווכ
<b>9.</b> ALL EXTERIOR DOORS SHALL HAVE WEATHER STRIPPING, THRESHOLDS, AND SHALL BE INSTALLED WEATHERTIGHT.		IEMBERS. RAMP, STAIR, LADDER, ALTERNATING TREAD COMPONENTS SHALL COMPLY WITH THE AF				
	THE LATEST	VERSION(S) IBC, NFPA 101, AND THE ADA.			S	TEEL
GENERAL ARCHITECTURAL NOTES	AB AB	ANCHOR BOLT AIR BARRIER	JT	JOINT	W	OOD FRAMING
1. THE DRAWINGS USE A SYSTEM OF KEYED NOTES ON PLANS, ELEVATIONS AND DETAILS. INSTRUCTIONS FOR SPECIFIC COMPONENTS OF THE WORK ARE KEYED TO THE DRAWINGS. BUILDING SYSTEMS (PARTITIONS, ROOF & FOUNDATION) ARE KEYED TO FLOOR PLANS, WALL SECTIONS, ROOF PLAN AND	AC ADDL ADJ	AIR CONDITIONING ADDITIONAL ADJUSTABLE	KIT LAB LAM	KITCHEN LABORATORY LAMINATE (D)		OOD BLOCKING
<ul><li>OTHER DETAILS AS APPROPRIATE.</li><li>2. MAINTAIN MINIMUM MANEUVERING CLEARANCES AT DOORS IN</li></ul>	ADO AFF AH AIB	AUTOMATIC DOOR OPERATOR ABOVE FINISHED FLOOR AIR HANDLER AIR INFILTRATION BARRIER	LAW LAV LB LCC	LAMINATE (D) LAVATORY POUND (S) LEAD COATED COPPER		
COMPLIANCE WITH THE ADA ACCESSIBILITY GUIDELINES (ADAAG), INCLUDING BUT NOT LIMITED TO THE FOLLOWING EXCERPT FROM 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN: 404.2.4.1 Swinging Doors and Gates. Swinging doors and gates shall have maneuvering	ALT ALUM AOR APPROX	ALTERNATE ALUMINUM AREA OF REFUGE	LF LH LOC'N LW	LINEAR FOOT LEFT HAND LOCATION LIGHTWEIGHT (CMU)	G	YPSUM BOARD
clearances complying with Table 404.2.4.1. Table 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates Type of Use Minimum Maneuvering Clearance	APPROX ARCH ARND AVB	APPROXIMATE ARCHITECT(URAL) AROUND AIR/VAPOR BARRIER	MAS MATL	MASONRY MATERIAL	PI	YWOOD
Approach Direction         Door or Gate Side         Perpendicular to Doorway         Parallel to Doorway (beyond latch side unless noted)	AWP BD BF	ACOUSTICAL WALL PANEL BOARD BARRIER FREE	MAX MC MCWF MDO	MAXIMUM MEDICINE CABINET MULTI COLOR WALL FINISH MEDIUM DENSITY OVERLAY		
From frontPull60 inches (1525 mm)18 inches (455 mm)From frontPush48 inches (1220 mm)0 inches (0 mm)^1	ыг BIT BLDG BLKG	BITUMINOUS BUILDING BLOCKING	MECH MED MF	MEDIOM DENSITY OVEREAT MECHANICAL MEDIUM MEMBRANE FLASHING	K	GID INSULATION
From hinge sidePull60 inches (1525 mm)36 inches (915 mm)From hinge sidePull54 inches (1370 mm)42 inches (1065 mm)From hinge sidePush42 inches (1065 mm)^222 inches (560 mm)^3	BM BOT BO BRK	BENCHMARK BOTTOM BOTTOM OF BRICK	MFR MH MIN MISC	MANUFACTURER MANHOLE MINIMUM MISCELLANEOUS	В	ATT INSULATION
From latch sidePull48 inches (1220 mm) <sup>4</sup> 24 inches (610 mm)From latch sidePush42 inches (1065 mm) <sup>4</sup> 24 inches (610 mm)	BRG B/S BSMT	BEARING BRICK SHELF BASEMENT	MLDG MO MR	MOULDING, MOULDING MASONRY OPENING MOISTURE RESISTANT		
<ol> <li>Add 12 inches (305 mm) if closer and latch are provided.</li> <li>Add 6 inches (150 mm) if closer and latch are provided.</li> <li>Beyond hinge side.</li> <li>Add 6 inches (150 mm) if closer is provided.</li> </ol>	C, CRS CAB CB	COURSE CABINET CATCH BASIN	MRGB MS MSF MTL	MOISTURE RESISTANT GYPSUM BOARD MOP SINK METAL STUD FRAMING METAL	<u>SYMBOLS</u>	
<b>3.</b> ALL MOUNTING HEIGHTS AND CLEARANCES AT TOILET ROOMS AND ELSEWHERE SHALL COMPLY WITH THE LATEST VERSION OF THE ADA ACCESSIBILITY GUIDELINES (ADAAG).	CC CF CFMF	CENTER TO CENTER CUBIC FOOT COLD FORMED METAL FRAMING	N NA	NORTH NOT APPLICABLE	Room	
• BARRIER-FREE CLEARANCES ARE GIVEN. THESE <u>CLEAR</u> DIMENSIONS SHALL BE MAINTAINED IN CASES OF DISCREPANCY.	CJ CL CLG CLR	CONTROL JOINT CENTERLINE CEILING CLEAR	NIC NO NOM NRC	NOT IN CONTRACT NUMBER NOMINAL NOISE REDUCTION COEFFICIENT	101 ROOM TA	G
<ul> <li>ALL DIMENSIONS GIVEN FOR FIXTURE AND ACCESSORY LOCATIONS ARE</li> <li><u>CLEAR</u> DIMENSIONS FROM FINISHED SURFACES, UNLESS NOTED OTHERWISE. COORDINATE ACTUAL DIMENSIONS WITH WALL</li> </ul>	CMT CMU CO	CERAMIC MOSAIC TILE CONCRETE MASONRY UNIT CLEANOUT	NTS O/	NOT TO SCALE OVER	و DOOR TA	G
<ul> <li>CONSTRUCTION AND FINISHES.</li> <li>LOCATE ALL CONTROLS, FLUSH VALVES, SHUTOFFS AND SIMILAR ITEMS IN ACCORDANCE WITH THE LATEST VERSION OF THE ADA ACCESSIBILITY</li> </ul>	COL CONC CONC/C CONT	COLUMN CONCRETE COLORED CONCRETE CONTINUOUS OR CONTINUE	OC OD OFS OP	ON CENTER OUTSIDE DIAMETER OVERFLOW SCUPPER OPAQUE		GLAZING TAG
<ul> <li>GUIDELINES (ADAAG).</li> <li>SOME ITEMS MAY INDICATE A RANGE IN MOUNTING HEIGHT. MAINTAIN A</li> </ul>	CONTR CPT CS	CONTRACTOR CARPET COUNTERSINK	OH OPH OPNG OPP	OVERHEAD OPPOSITE HAND OPENING OPPOSITE	XX – WALL TA	3
<ul> <li>CONSISTENT MOUNTING HEIGHT, WITHIN THE GIVEN RANGE, THROUGHOUT THE PROJECT, UNLESS NOTED OTHERWISE.</li> <li>MAINTAIN <u>CLEAR</u> DIMENSIONS IN ACCORDANCE WITH THE LATEST</li> </ul>	CSMT CT CWT CUH	CASEMENT CERAMIC TILE CERAMIC WALL TILE CABINET UNIT HEATER	OPP OPS P, PTD	OPERABLE PANEL SYSTEM PAINT		TY EQUIPMENT\ CCESSORY TAG
VERSION OF THE ADA ACCESSIBILITY GUIDELINES (ADAAG). 5. ALL GRAB BAR COMPONENTS SHALL BE ABLE TO WITHSTAND A LOAD OF 250LBS AT ANY POINT.	CY DBL	CUBIC YARD DOUBLE DISPLAY CASE	PC PERF PERIM PRKG	PRECAST CONC. PERFORATED PERIMETER PARKING	_	
6. INSTALL BLOCKING BEHIND ALL SURFACE-APPLIED FIXTURES, TRIM, GRAB BARS, SHELVES, CHAIR RAILS, PICTURE RAILS, BASE MOLDINGS, TACK OR MARKER	DC DEMO DF DIA, DIAM	DISPLAY CASE DEMOLISH, DEMOLITION DRINKING FOUNTAIN DIAMETER	PL PLAM PLYWD	PLATE PLASTIC LAMINATE PLYWOOD	1i   CASEWO     (#)   DEMOLIT	ION KEY NOTE
<ul> <li>BOARDS, WINDOW TREATMENT, WALL OR BASE CABINETS OR COUNTERS, AND MISCELLANEOUS ACCESSORIES MOUNTED ON STUD WALLS.</li> <li>ALL EXPOSED WOOD NOT INDICATED TO BE PAINTED SHALL BE NATURAL</li> </ul>	DIM DIV DMP DN	DIMENSION DIVISION DEMOUNTABLE PARTITION DOWN	PSF PSI PT PTD	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PRESSURE TREATED PAPER TOWEL DISPENSER		BUILDING SECTION
<ul> <li>FINISH (CLEAR).</li> <li>8. FLOORING AND FLOOR FINISHES SHALL BE INSTALLED TO A MAXIMUM DIFFERENTIAL OF 1/16" BETWEEN DISSIMILAR MATERIALS. PROVIDE TRANSITION</li> </ul>	DR DTL DWG	DOOR DETAIL DRAWING	PTN PVC PVMT	PARTITION POLYVINYL CHLORIDE PAVEMENT	A101	BUILDING SECTION
STRIPS OR THRESHOLDS (1/2" MAXIMUM) OF SAME MATERIALS. PROVIDE TRANSITION STRIPS OR THRESHOLDS (1/2" MAXIMUM) OF SAME MATERIAL AS FLOORING AND/OR AS NOTED ON THE DRAWINGS, BETWEEN DISSIMILAR FLOORING MATERIALS	DWR E EA	DRAWER EAST EACH	QR QT	QUARTER ROUND QUARRY TILE	1 A101	WALL SECTION
<b>9.</b> PATCH AND LEVEL EXISTING SUBFLOORS TO RECEIVE NEW FLOOR FINISHES AS INDICATED IN THE ROOM FINISH SCHEDULE.	EF EMHO EIFS	EXHAUST FAN ELECTRO MAGNETIC HOLD OPEN EXTERIOR INSULATION FINISH SYSTEM	RE: REF REQ'D	REFERENCE REFRIGERATOR REQUIRED	SIM A101	PLAN OR SECTION DETAIL
<ul> <li>10. ALL EXPOSED PIPES UNDER LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT.</li> <li>11. INSTALL 2 COAT LOOKS CENTERED ON THE INSIDE OF SINCLE USER.</li> </ul>	EJ EL EP ELEC	EXPANSION JOINT ELEVATION EPOXY PAINT ELECTRICAL	REV RL RF RH	REVISION (S), REVISED RAIN LEADER RUBBER FLOOR RIGHT HAND		
<b>11.</b> INSTALL 2 COAT HOOKS CENTERED ON THE INSIDE OF SINGLE USER TOILET ROOM DOORS, MOUNTED AT 48"AFF AND 60"AFF.	ELEV EMER ENCL	ELEVATOR EMERGENCY ENCLOSED/ENCLOSURE	RM RO ROW	ROOM ROUGH OPENING RIGHT OF WAY	1 A101	EXTERIOR ELEVATION
CEILING NOTES	EQ EQUIP EXH EXIST	EQUAL EQUIPMENT EXHAUST EXISTING	S SAT SC	SOUTH SUSPENDED ACOUSTICAL TILE SOLID CORE	- A41.1 -	INTERIOR ELEVATION
1. CEILING PLANS DO NOT SHOW EVERY FIXTURE OR COMPONENT. REFER TO ELECTRICAL, PLUMBING, MECHANICAL AND STRUCTURAL DRAWINGS FOR EXTENT OF ALL CEILING PENETRATIONS AND INSTALLATIONS AND COORDINATE PRIOR TO	EXT EW EWC	EXTERIOR EYEWASH ELECTRIC WATER COOLER	SCHED SD SECT SF	SCHEDULE STORM DRAIN, SOAP DISPENSER SECTION SQUARE FOOT	1	FLOOR LEVEL\VERTICAL ELEVATION
INSTALLATION. 2. CENTER GRID LAYOUT IN ALL ROOMS UNLESS NOTED OTHERWISE.	FB FBO FCS	FIRE BLANKET FURNISHED BY OWNER FLOOR COATING SYSTEM	SGL SH SHT	SAFETY GLASS SHOWER SHEET		TEOOR ELVERTICAE ELEVATION
3. ALL COMPONENTS MOUNTED IN OR BELOW A SUSPENDED ACOUSTIC CEILING SHALL BE CENTERED IN THE CEILING TILE OR IN THE 2X2 PORTION OF TEGULAR CEILING TILES, UNLESS NOTED OTHERWISE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, LIGHT FIXTURES, DIFFUSERS, SPEAKERS, SMOKE DETECTORS, AND	FD FE FEC FFE	FLOOR DRAIN FIRE EXTINGUISHER FIRE EXTINGUISHER AND CABINET FINISHED FLOOR ELEVATION	SHTHG SIM SLNT SNR	SHEATHING SIMILAR SEALANT SANITARY NAPKIN RECEPTOR		COLUMN CENTERLINE
<ul><li>SPRINKLER HEADS.</li><li>PRIOR TO THE INSTALLATION OF CEILINGS, ALLOW FOR AN ABOVE-CEILING</li></ul>	FG FHVC FIN	FIBERGLASS FIRE HOSE AND VALVE CABINET FINISH(ED)	SP SPEC SPKR	SPECIAL PAINT SPECIFICATION SPEAKER SQUARE		
INSPECTION OF COMPONENTS THAT WILL NOT BE VISIBLE WHEN THE CEILINGS HAVE BEEN INSTALLED, INCLUDING INSPECTION OF FIRE, SMOKE, AND ACOUSTICAL SEPARATIONS.	FIN GR FLR FNDN FP	FINISH GRADE FLOOR(ING) FOUNDATION FIREPROOFING	SQ SS STC STD	STAINLESS STEEL SOUND TRANSMISSION CLASS STANDARD	FIRE RATI	
	FO FRMG FRP	FACE OF FRAME(ING) FIBER REINFORCED PLASTIC	STL STOR STRL STRUCT	STEEL STORAGE STRUCTURAL STRUCTURE/STRUCTURAL		
INTERIOR GENERAL NOTES	FRT FSR FT FTG	FIRE RETARDANT TREATED FLEXIBLE SHEET ROOFING FOOT(FEET) FOOTING	SUPT SUSP SV	SUPPORT SUSPENDED SHEET VINYL		
<b>1.</b> All mounting heights and clearances at Toilet rooms and elsewhere shall comply with the latest version of the ADA Accessibility Guidelines (ADAAG).	FTR FUR FV FWC	FIN TUBE RADIATION FURRED(ING) FIELD VERIFY FABRIC WALL COVERING	T TB TB	TOILET TOWEL BAR TACKBOARD		IR FIRE RATED PARTITION
<ul> <li>Barrier-Free clearances are given. These <u>clear</u> dimensions shall be maintained in cases of discrepancy.</li> </ul>	GA GALV	GAUGE GALVINIZED	T&G TGL THK	TONGUE AND GROOVE TEMPERED GLASS THICK(NESS)		
<ul> <li>All dimensions given for fixture and accessory locations are <u>clear</u> dimensions from finished surfaces, unless noted otherwise. Coordinate actual dimensions with wall construction and finishes.</li> </ul>	GB GFB GL GWB	GRAB BAR GROUND FACE CMU GLASS, GLAZING GYPSUM WALLBOARD	TO TP TPD TV	TOP OF TOILET PARTITION TOILET PAPER DISPENSER TELEVISION		
<ul> <li>Locate all controls, flush valves, shutoffs and similar items in accordance with the latest version of the ADA Accessibility Guidelines (ADAAG).</li> <li>A range of mounting heights may be given for some items. Maintain a consistent</li> </ul>	HARD HB	HARDENER HOSE BIBB	TYP UCR	TYPICAL UNDER COUNTER REFRIGERATOR		
<ul> <li>A range of mounting heights may be given for some items. Maintain a consistent mounting height, within the given range, throughout the Project, unless noted otherwise.</li> <li>Install blocking behind all surface-applied fixtures, trim, grab bars, shelves, chair rails,</li> </ul>	HC HD HDO HDWD	HOLLOW CORE HEAD HIGH DENSITY OVERLAY HARDWOOD	UNO VB VC	UNLESS NOTED OTHERWISE VAPOR BARRIER/VINY BASE VALVE CABINET		
picture rails, base moldings, tack or marker boards, window treatment, wall or base cabinets or counters, and miscellaneous accessories mounted on stud walls.	HDWR HM HORIZ	HARDWARE HOLLOW METAL HORIZONTAL	VCT VERT VPW	VINYL COMPOSITION TILE VERTICAL VENEER PLYWOOD		
rails, picture rails, base moldings, tack or marker boards, window treatment, wall or base cabinets or counters, and miscellaneous accessories mounted on CMU walls.	HR HS HT HTG	HAND RAIL HIGH SCHOOL HEIGHT HEATING	VWC W W/	VINYL WALL COVERING WEST WITH		
<ul><li>4. Install transition strips between dissimilar flooring materials.</li><li>5. All wood not indicated to be painted shall be natural finish (clear).</li></ul>	HVAC IBC	HEATING/VENTILATION/AIR CONDITIONING	WC WD WGL	WATER CLOSET WOOD WIRE GLASS		
<b>6</b> . All grab bar components shall be able to withstand a horizontal load of 250lbs at any point.	ID IN INCL INFO	INSIDE DIAMETER INCH (ES) INCLUDE (D), (ING) INFORMATION	WH W/O WS WP	WATER HEATER WITHOUT WATERSTOP WATERPROOF		
	INSUL INT INV	INSULATED INTERIOR INVERT	WWF WWM YD	WELDED WIRE FABRIC WELDED WIRE MESH YARD		

1. REFER TO STRUCTURAL DRAWINGS FOR NOTES ON MASONRY REINFORCEMENT.

2. ALL NEW OPENINGS, GREATER THAN 12" FOR BRICK-SIZE AND 24" FOR BLOCK-SIZE, INTO MASONRY WALLS SHALL RECEIVE A LINTEL. REFER TO THE STRUCTURAL DRAWINGS FOR LINTEL REQUIREMENTS. REFER TO MECHANICAL ELECTRICAL, & PLUMBING PLANS FOR NUMBER, LOCATION, AND SIZE OF APPLICABLE PENETRATIONS.

3. FILL ALL CMU VOIDS WITH MORTAR OR GROUT AT ALL DOOR JAMBS.

4. ALL PARTITIONS SHALL EXTEND FROM SUB-FLOOR OR SLAB TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE, UNLESS NOTED OTHERWISE.

5. GYPSUM BOARD APPLIED TO WALLS SHALL BE APPLIED WITH THE BOTTOM EDGE SPACED NOT LESS THAN 1/4" ABOVE THE FLOOR. INSTALL A CONTINUOUS BEAD OF ACOUSTICAL SEALANT UNDER EACH LAYER OF GWB AT THE INTERSECTION WITH FLOOR, ON EACH SIDE OF THE WALL.

6. ALL TOP-OF-WALL CONDITIONS SHALL BE SEALED TO THE DECK ABOVE, UNLESS NOTED OTHERWISE. MAINTAIN THE REQUIRED FIRE RATINGS, SMOKE RATINGS, AND ACOUSTICAL RATINGS. COORDINATE THE TOP OF WALL CONSTRUCTION WITH THE STRUCTURAL FRAMING.

7. INSTALL BLOCKING BEHIND ALL SURFACE-APPLIED FIXTURES, TRIM, GRAB BARS, SHELVES, CHAIR RAILS, PICTURE RAILS, BASE MOLDINGS, TACK OR MARKER BOARDS, WINDOW TREATMENT, WALL OR BASE CABINETS OR COUNTERS, AND MISCELLANEOUS ACCESSORIES MOUNTED ON STUD WALLS.

8. FOR EXISTING WALLS SUPPORTING NEW ITEMS, VERIFY THE WALL TYPE PRIOR TO PERFORMING THE WORK TO DETERMINE APPROPRIATE TYPE OF ANCHOR UNLESS INDICATED OTHERWISE. CONSULT ARCHITECT FOR CLARIFICATION IF NEEDED.

**9.** INSTALL MOISTURE RESISTANT (M.R.) GWB IN TOILET ROOMS, JANITOR'S CLOSETS, SHOWER ROOMS, LOCKER ROOMS, KITCHENS, DARKROOMS, ALL WALL AREAS WITHIN 8 FEET OF SINKS, AND OTHER DAMP OR HIGH HUMIDITY AREAS.

**10.** PROVIDE WOOD-PRESERVATIVE TREATED LUMBER (PRESSURE TREATED) AT ALL EXTERIOR WOOD FRAMING IN CONTACT WITH CONCRETE, WITHIN 18" OF THE GROUND, OR EXPOSED TO THE WEATHER SHALL BE.

11. VERIFY ALL COLD-FORMED METAL FRAMING AND CONNECTION REQUIREMENTS WITH ENGINEER OF EXTERIOR FRAMING SYSTEM.

12. ALL INTERIOR LIGHT GAGE METAL FRAMING IS 6", UNLESS NOTED OTHERWISE.

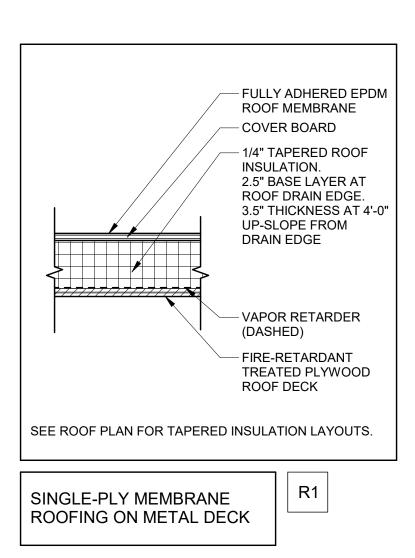
13. ALL CMU IS 8"X8"X16" (NOMINAL), UNLESS NOTED OTHERWISE.

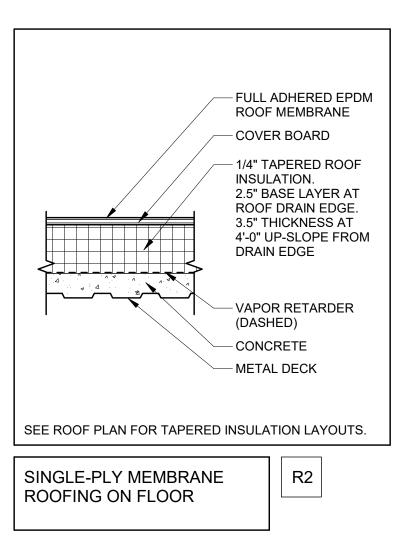
14. LOCATE CONTROL JOINTS IN MASONRY AS SHOWN, OR IF NOT SHOWN, IN ACCORDANCE WITH ACI 530/ACI 530.1, UNLESS NOTED OTHERWISE.

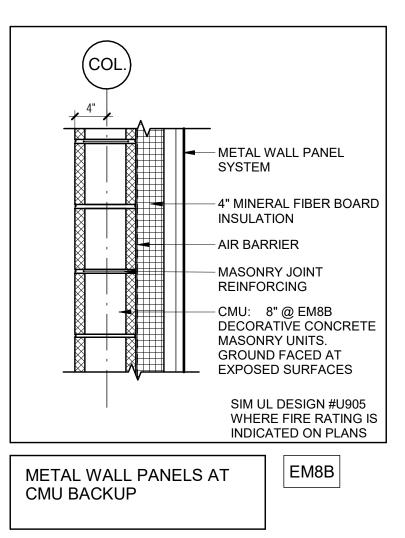
15. ALL COLD-FORMED METAL FRAMING CAVITIES SHALL BE FIRE STOPPED WITH A 1-HOUR SEPARATION AT EACH FLOOR LEVEL.

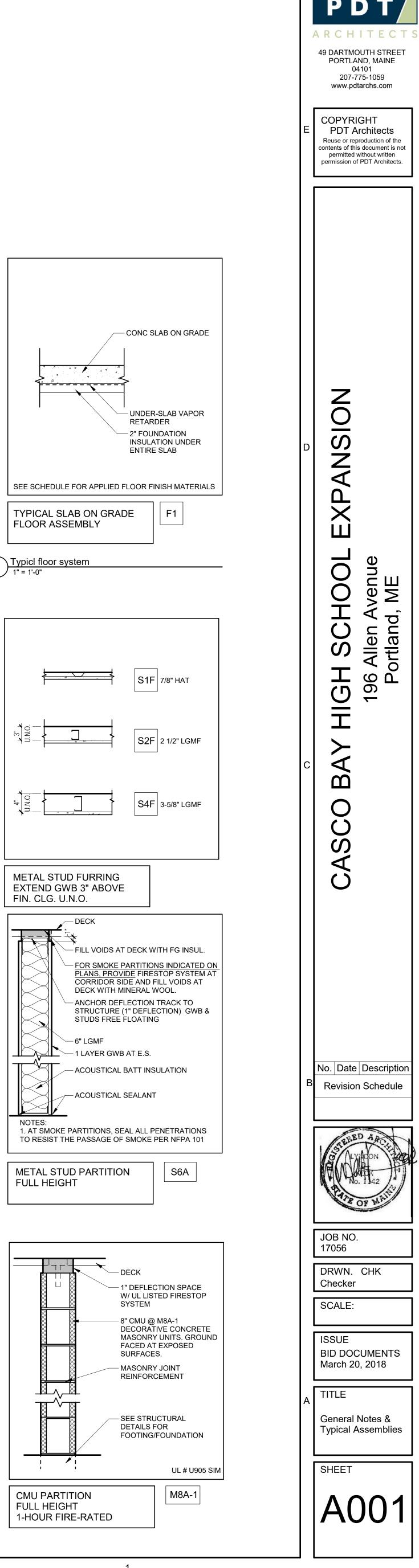
16. PROVIDE ACOUSTICAL INSULATION AT ALL INTERIOR STUD WALL ASSEMBLIES UNLESS NOTED OTHERWISE.

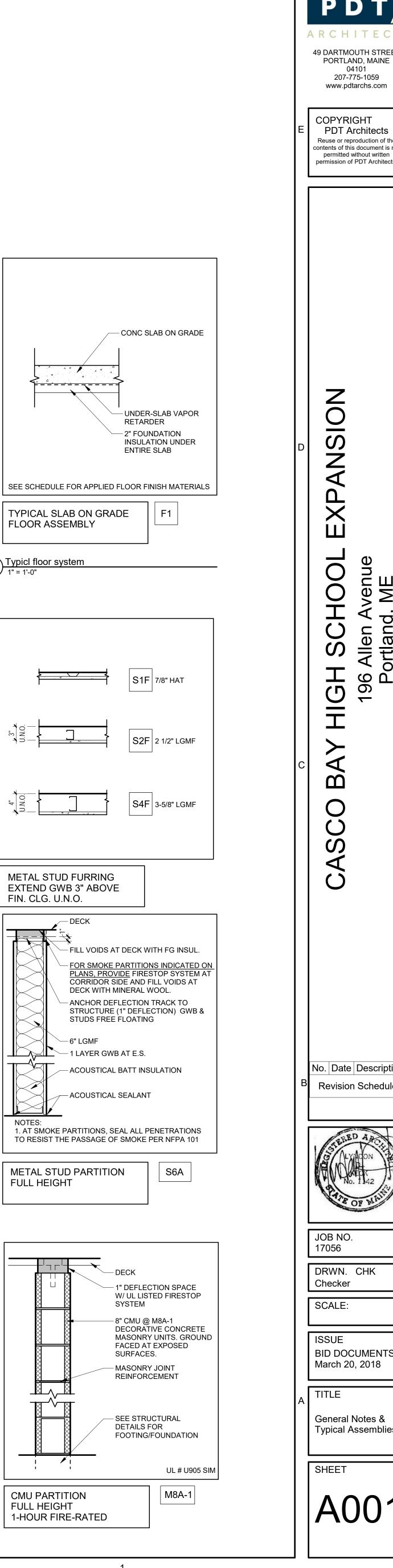
17. IDENTIFY ALL FIRE-RATED PARTITIONS BY STENCILING THE RATING ON EACH SIDE OF THE RATED WALLS ABOVE THE CEILING LINE WITH 4" HIGH LETTERS IN RED OR ORANGE PAINT; EACH RATED WALL SHALL BE IDENTIFIED AT LEAST ONCE AND AT A SPACING NOT GREATER THAN 12 FEET ON CENTER.

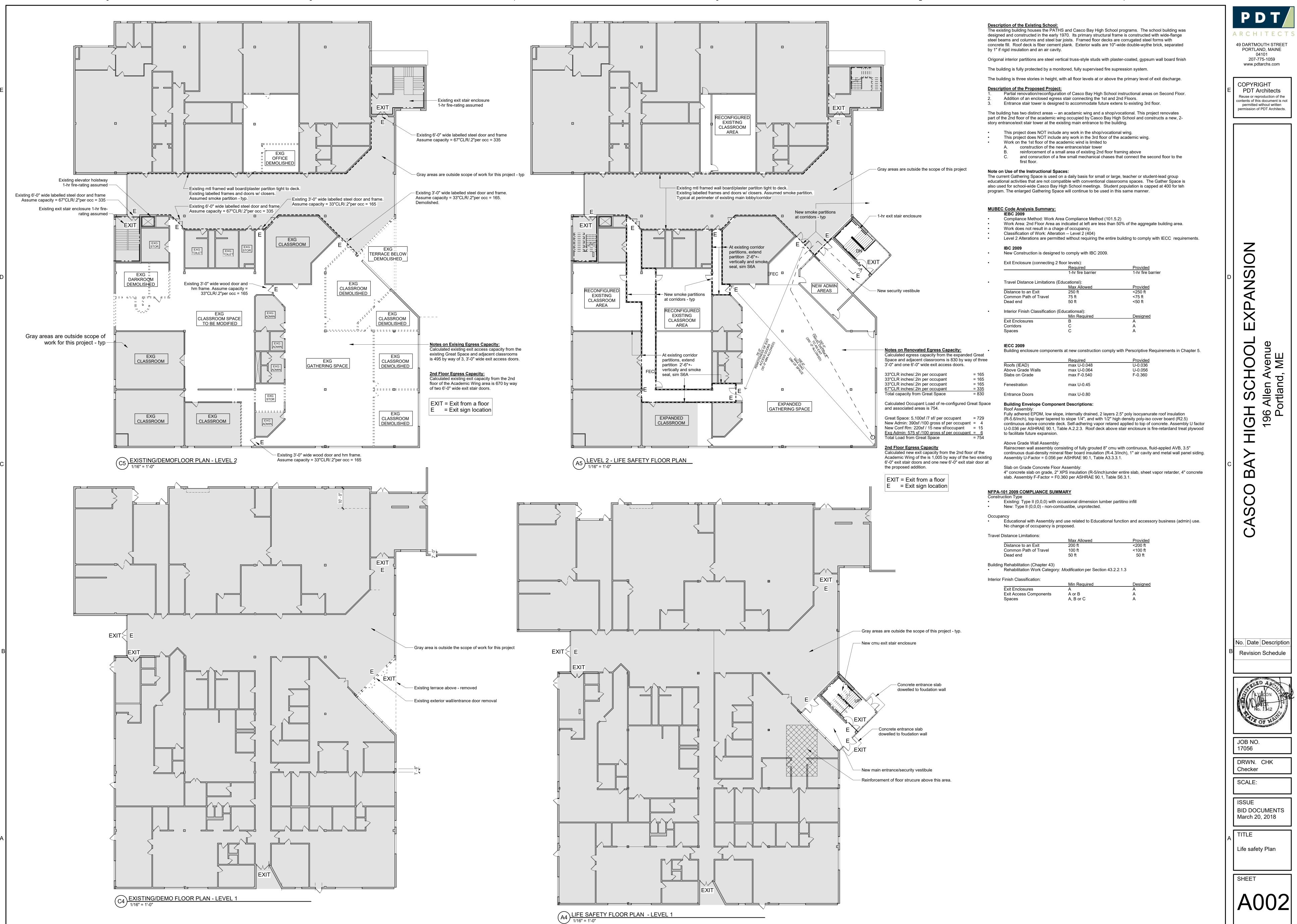








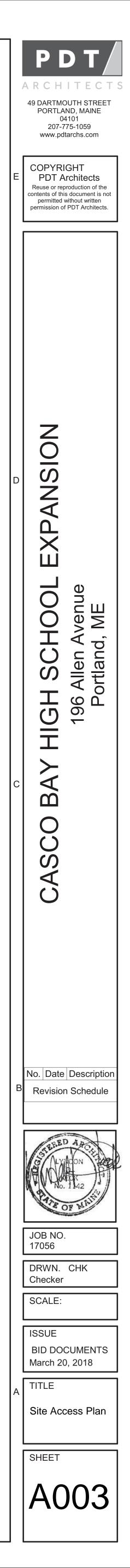


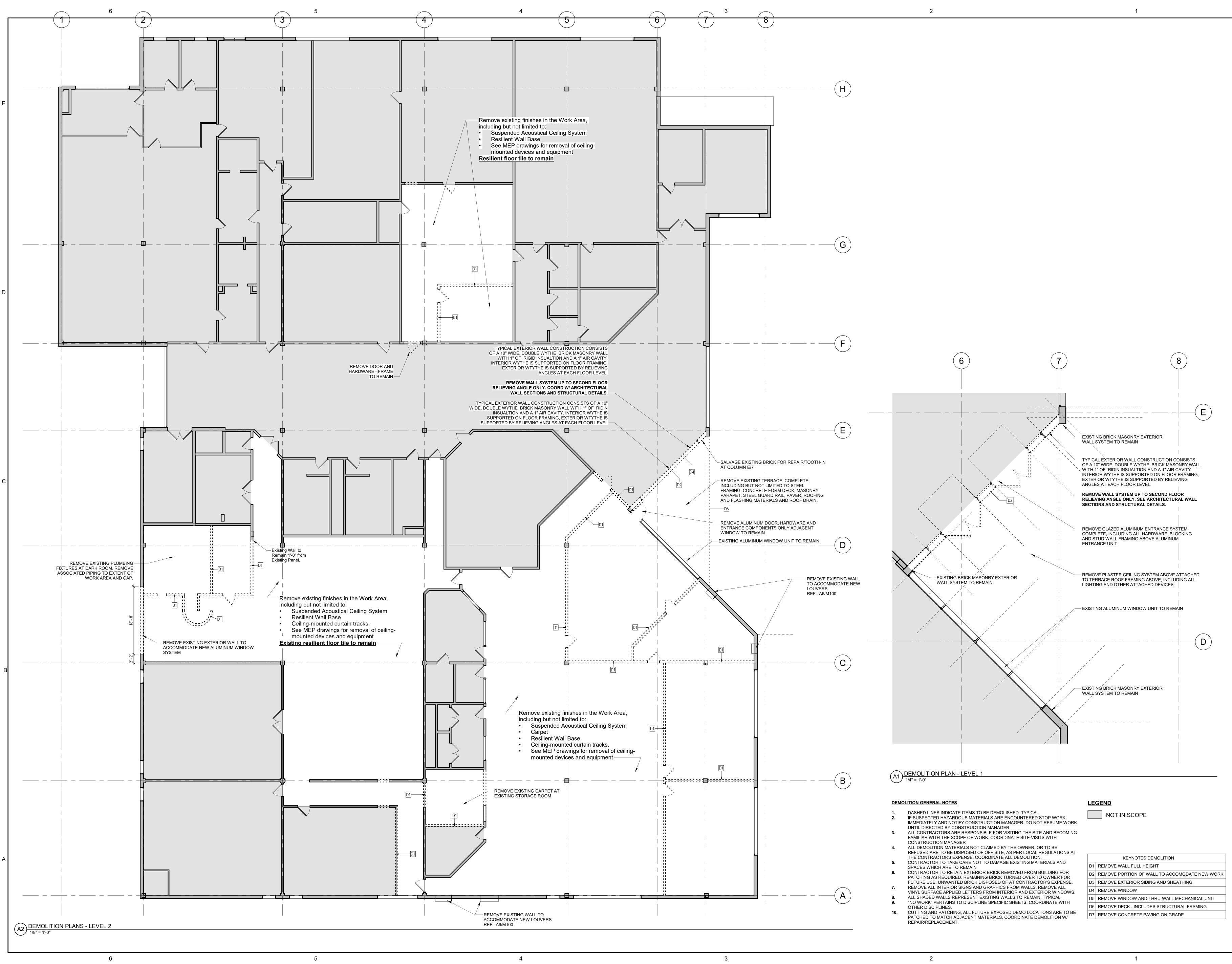


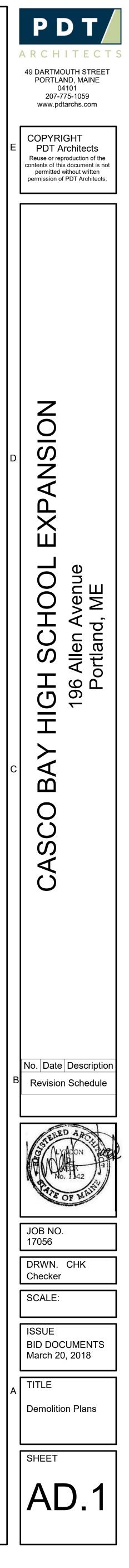


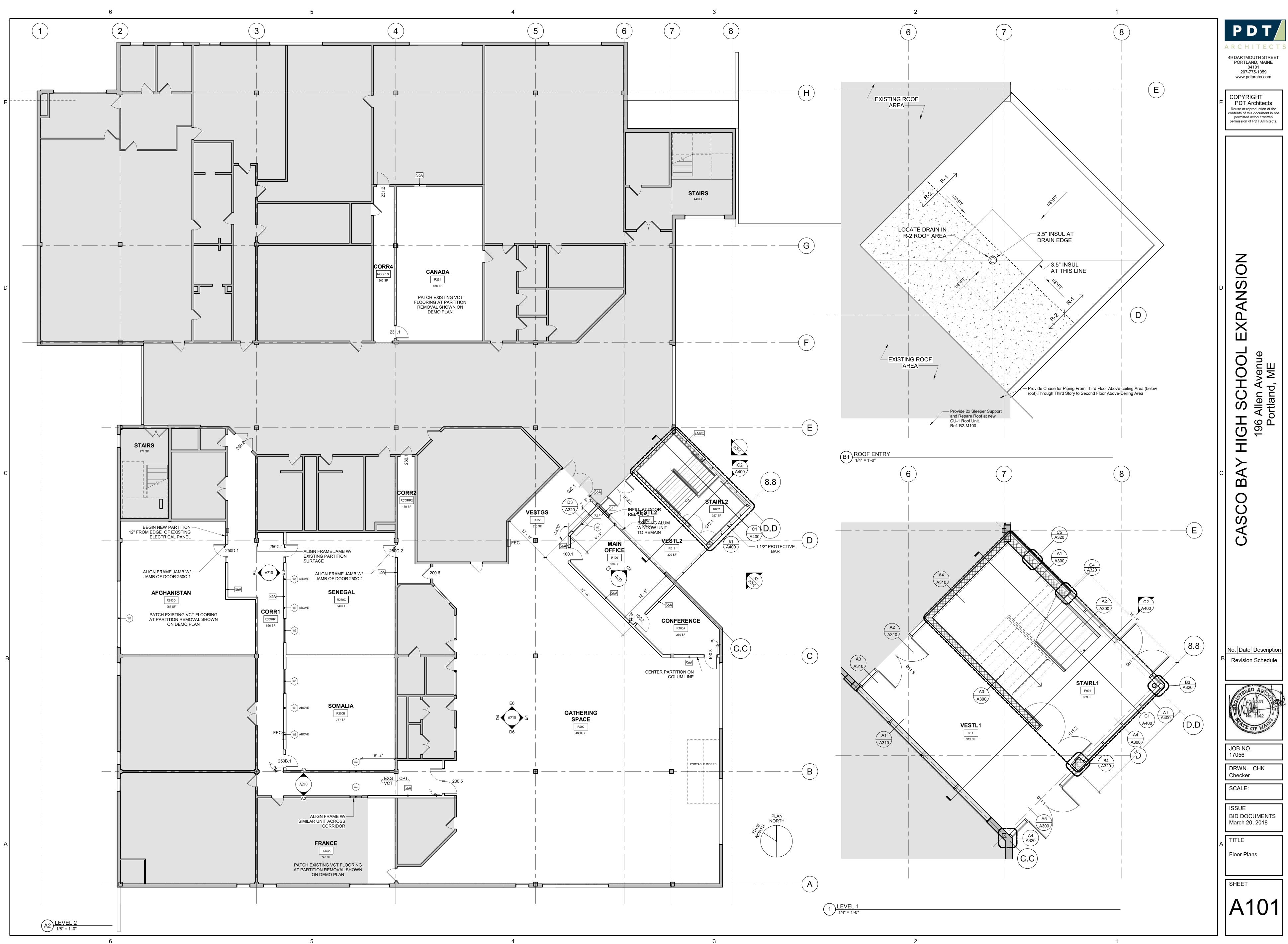




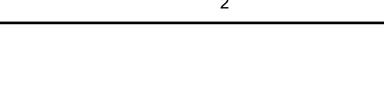












## A1 LEVEL 1 - Reinforcement

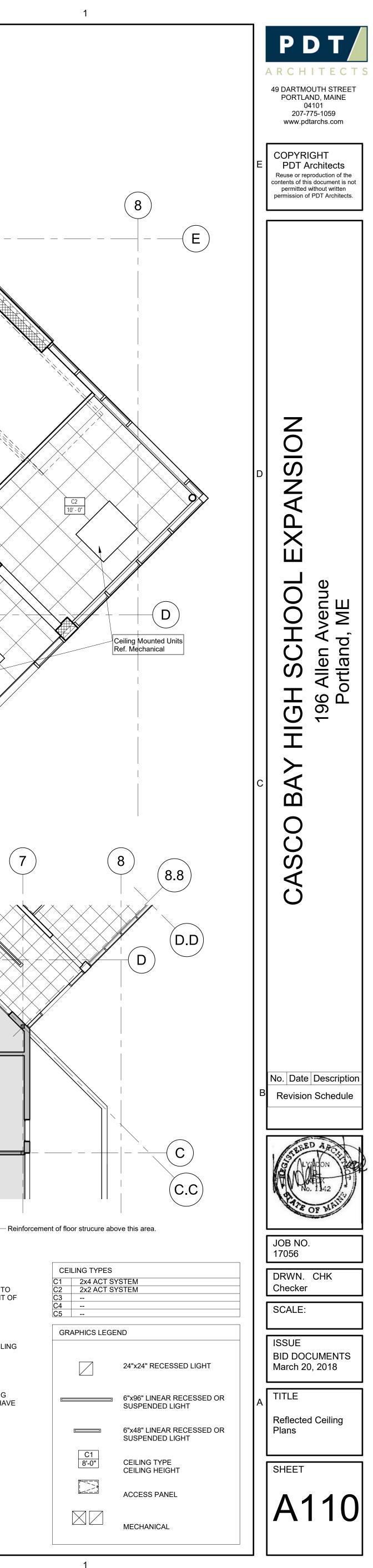
1. CEILING PLANS DO NOT SHOW EVERY FIXTURE OR COMPONENT. REFER TO ELECTRICAL, PLUMBING, MECHANICAL AND STRUCTURAL DRAWINGS FOR EXTENT OF ALL CEILING PENETRATIONS AND INSTALLATIONS AND COORDINATE PRIOR TO

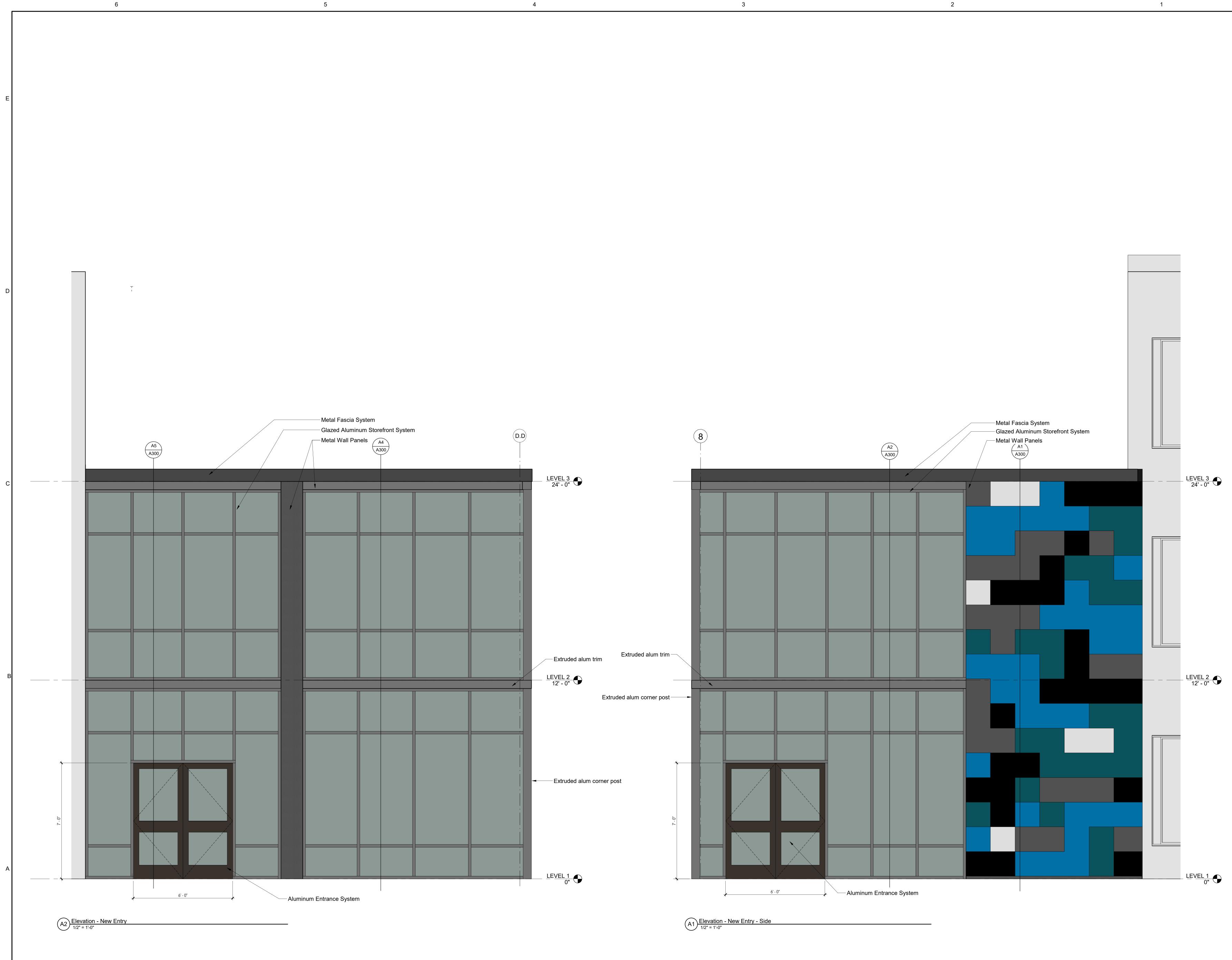
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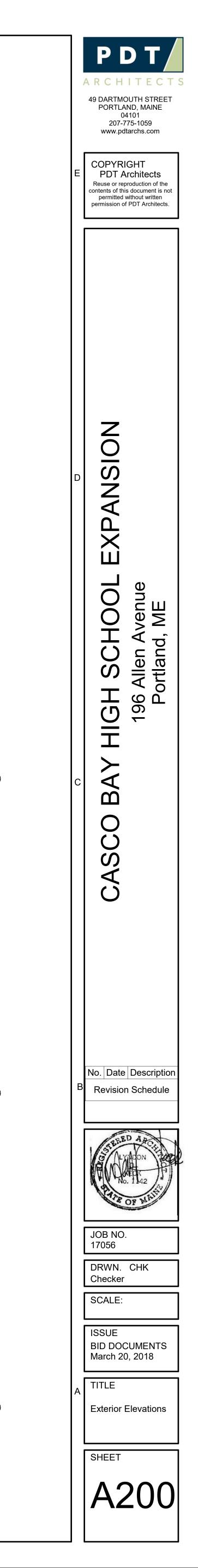
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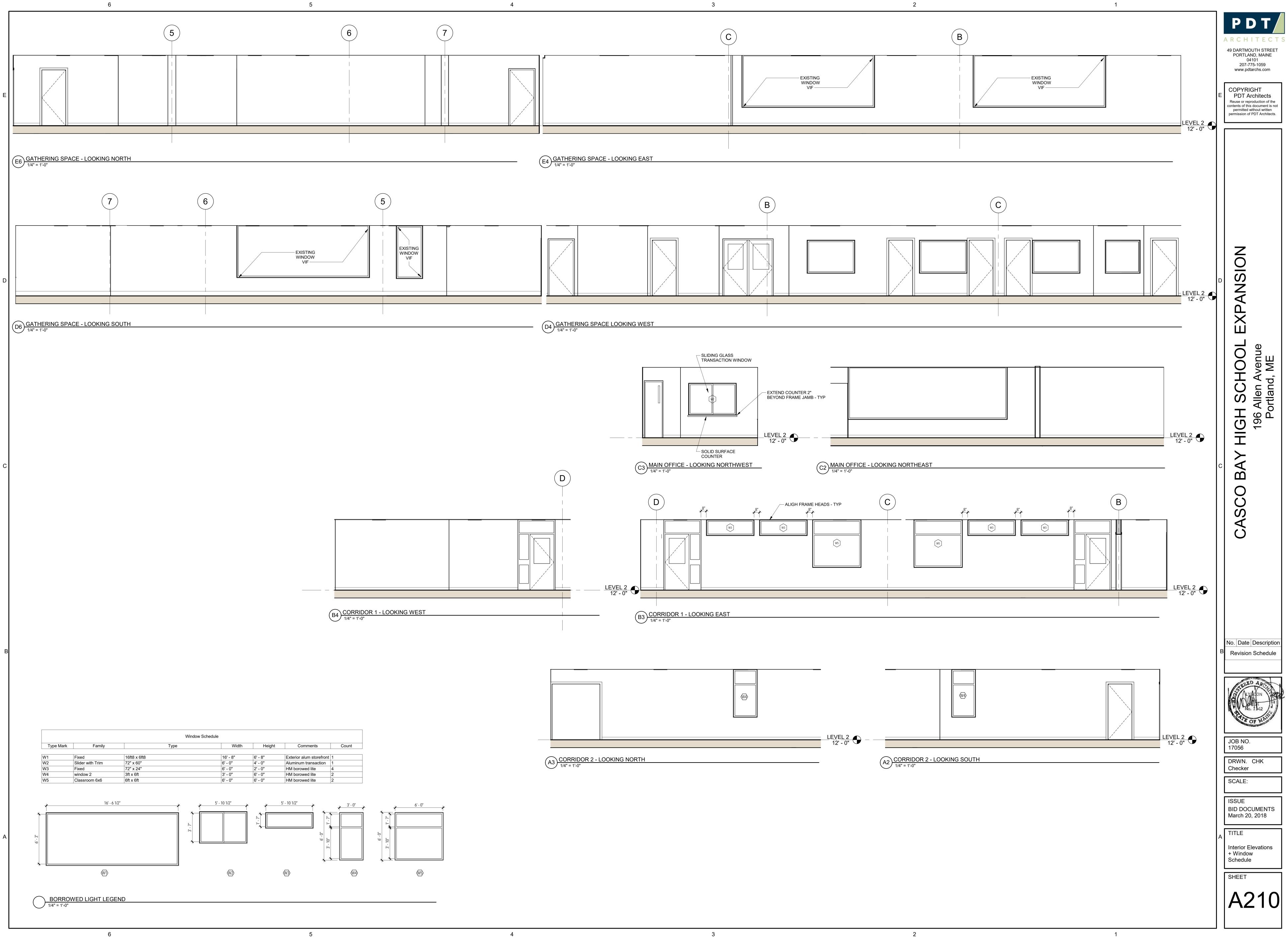
**3.** ALL COMPONENTS MOUNTED IN OR BELOW A SUSPENDED ACOUSTIC CEILING SHALL BE CENTERED IN THE CEILING TILE OR IN THE 2X2 PORTION OF TEGULAR CEILING TILES, UNLESS NOTED OTHERWISE. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, LIGHT FIXTURES, DIFFUSERS, SPEAKERS, SMOKE DETECTORS, AND

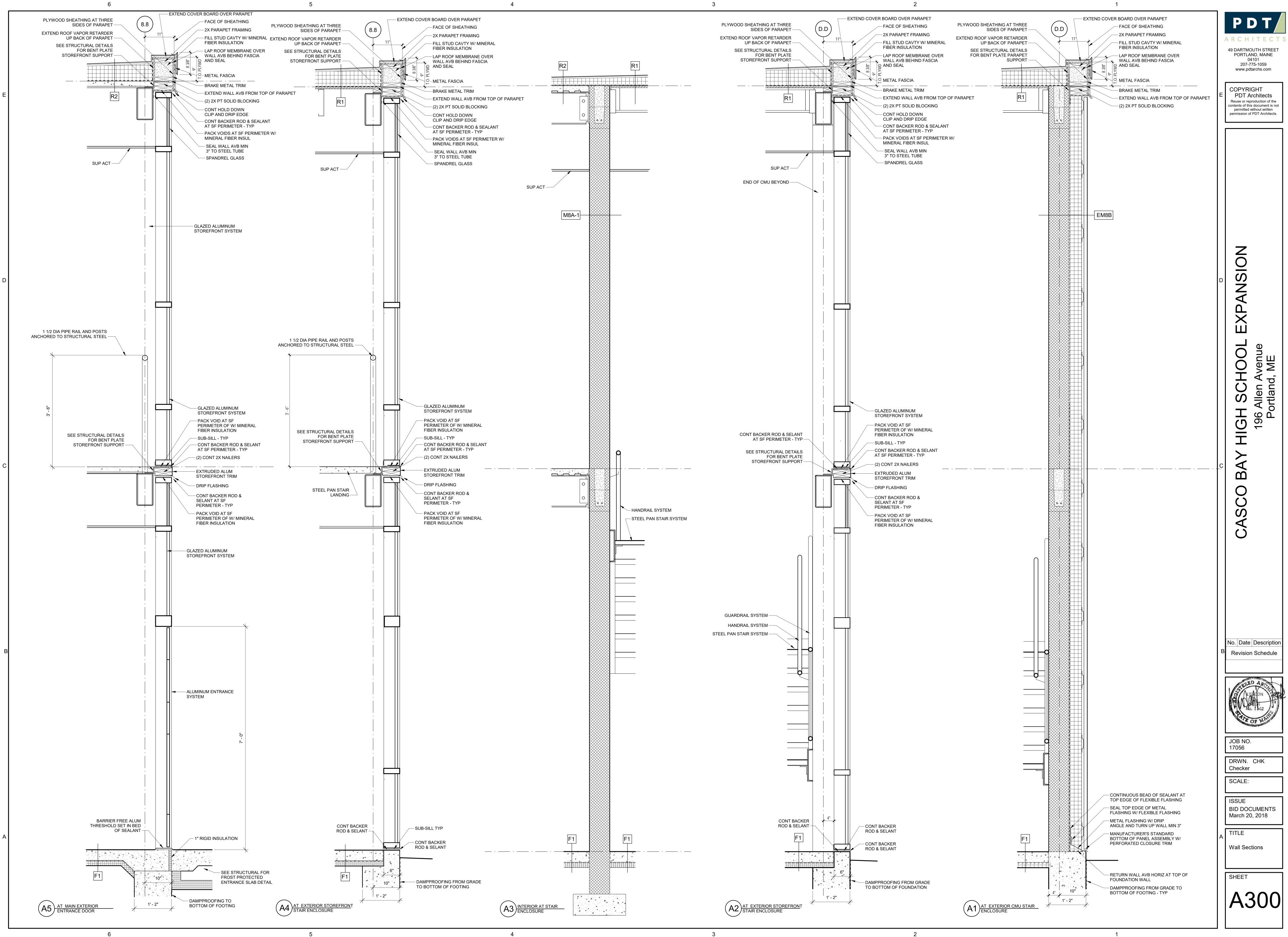
**4.** PRIOR TO THE INSTALLATION OF CEILINGS, ALLOW FOR AN ABOVE-CEILING INSPECTION OF COMPONENTS THAT WILL NOT BE VISIBLE WHEN THE CEILINGS HAVE BEEN INSTALLED, INCLUDING INSPECTION OF FIRE, SMOKE, AND ACOUSTICAL

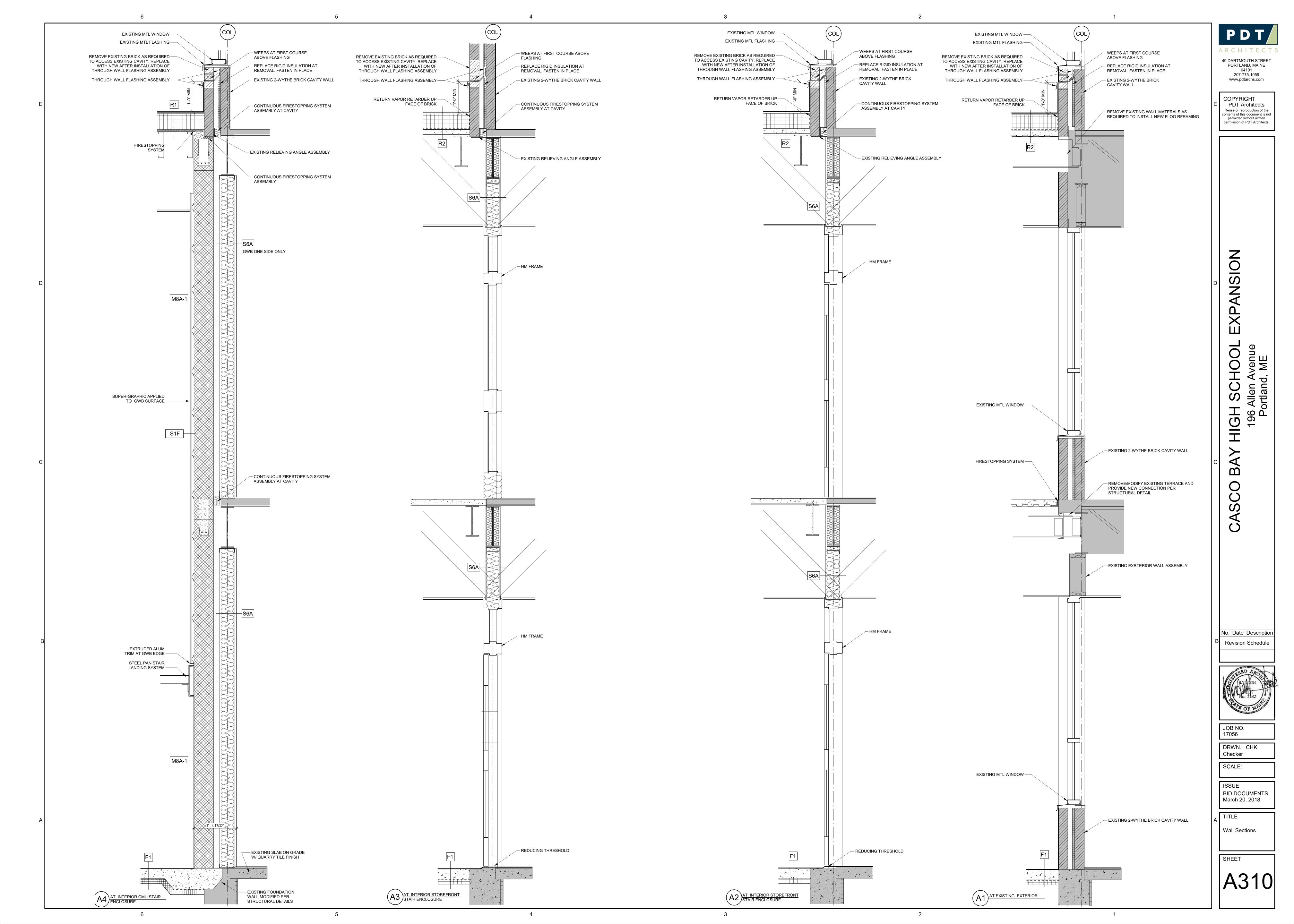


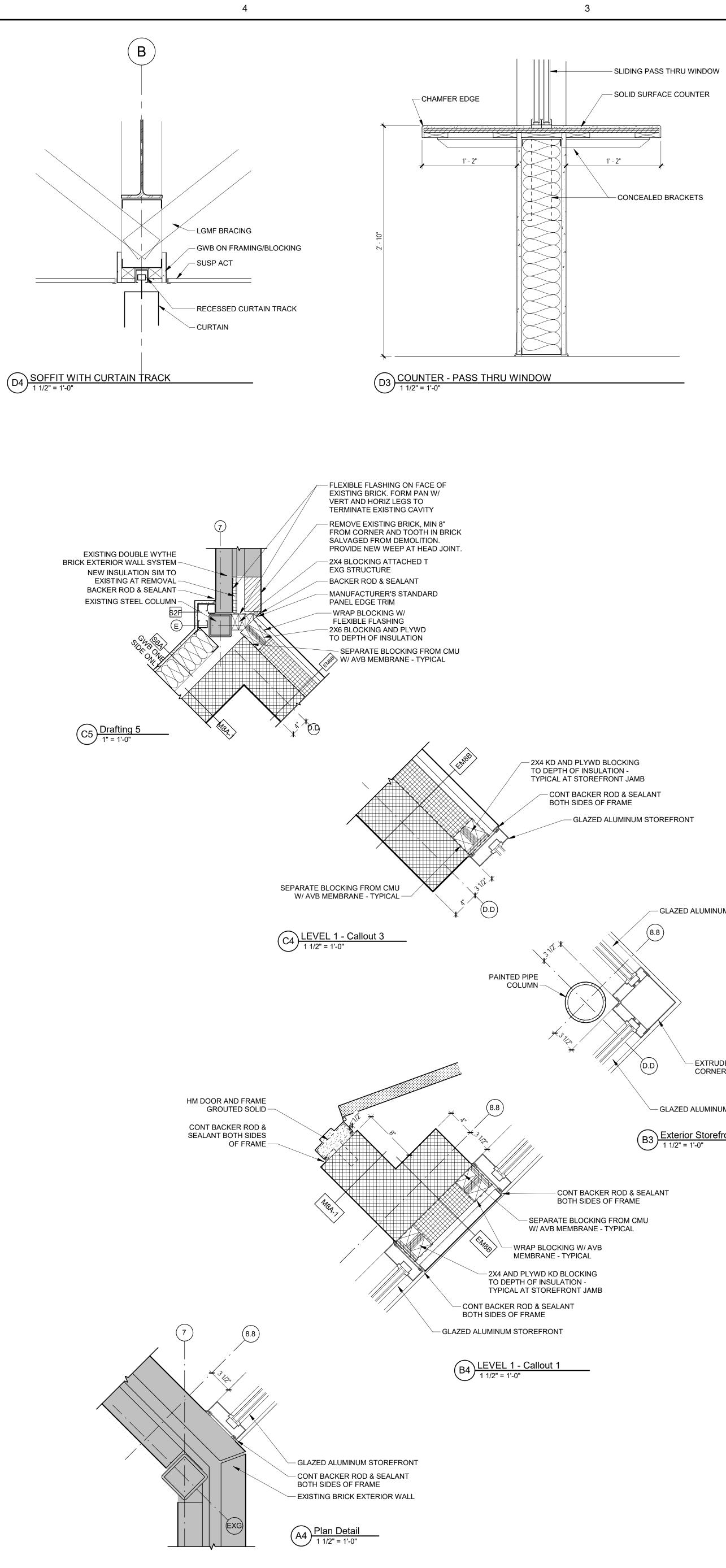




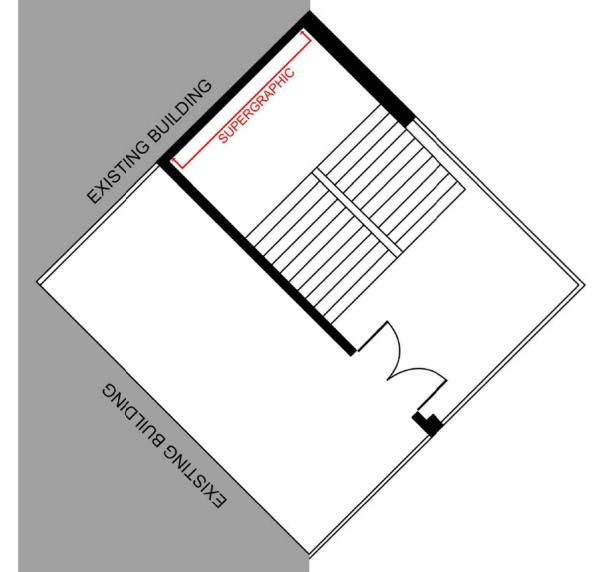


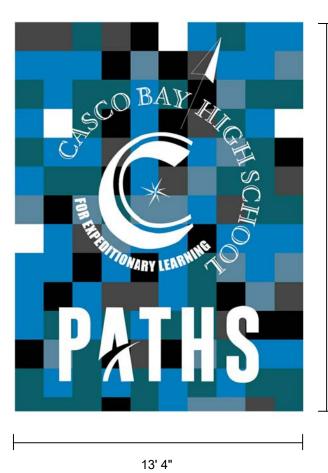






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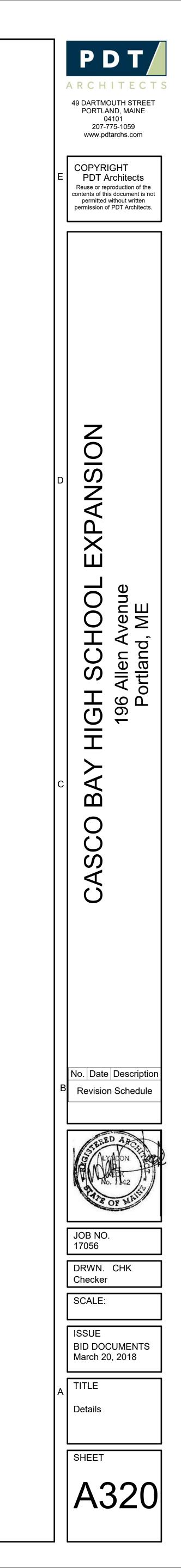


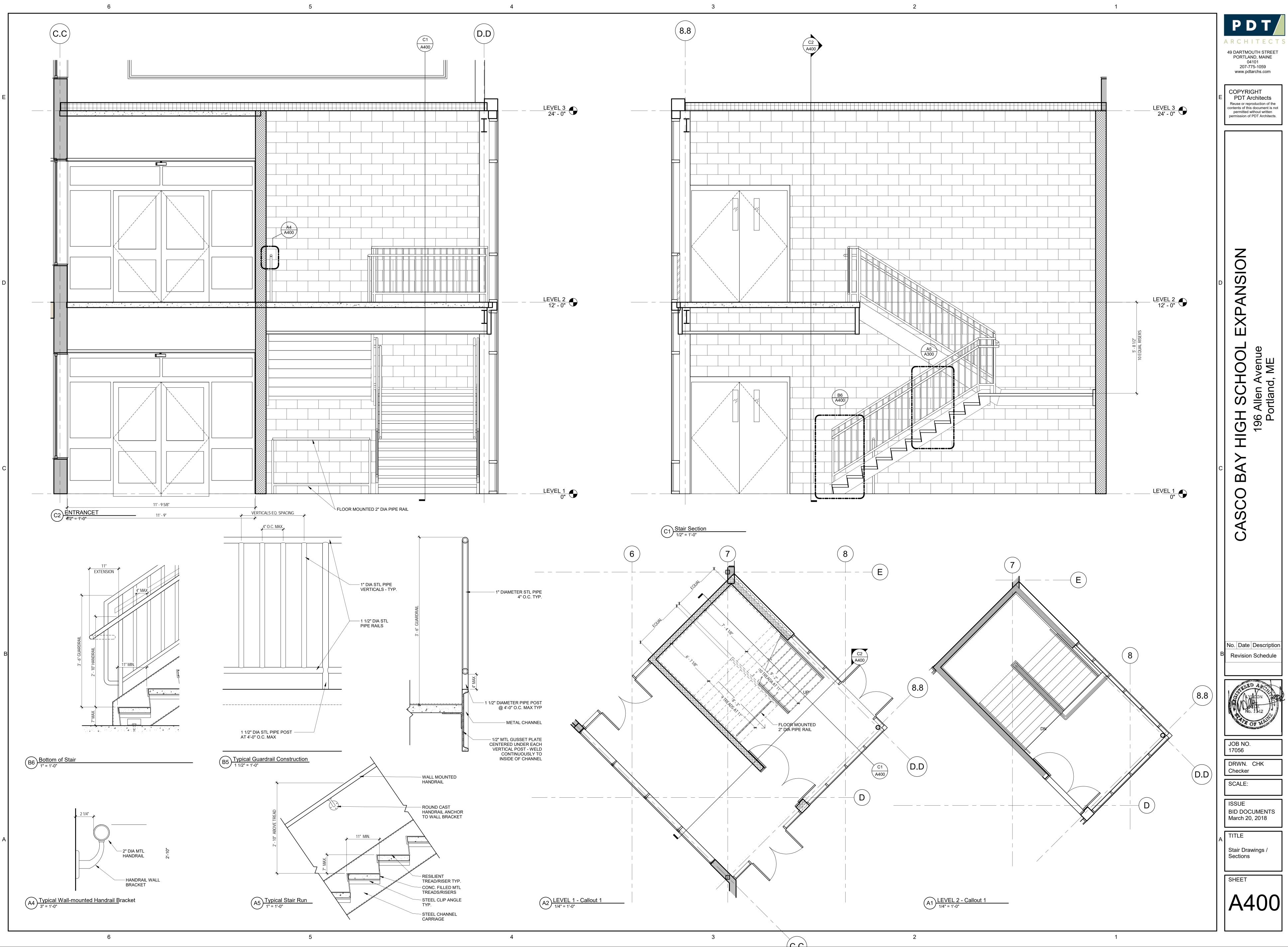
## C1 SUPERGRAPHIC DIAGRAM 1/4" = 1'-0"

- EXTRUDED ALUMINUM CORNER TRIM

- GLAZED ALUMINUM STOREFRONT

B3 Exterior Storefront Corner 1 1/2" = 1'-0"





		5								4
				Door & Fra	ame Schedule					
	LOCATION			DO	OR		FR	AME		
	LOOATION		OPF	ENING		PANEL			-	
MARK	ROOM NO.	ROOM NAME	WIDTH	HEIGHT	TYPE	MATL	TYPE	MATL	RATING	COMMENTS
001.1	R001	STAIRL1	6' - 0"	7' - 0"	S2	Alum		Alum		Aluminum Entrance; Security Glazing
001.4	R022	VESTGS	9' - 0"	8' - 6"	G	STL	11	НМ		
001.5	R231	CANADA	3' - 0"	7' - 0"						Q
011.1	011	VESTL1	6' - 0"	7' - 0"	S2	Alum		Alum		Aluminum Entrance; Security Glazing
11.2	R001	STAIRL1	6' - 0"	7' - 0"	F	STL	1	НМ	60	
11.3	011	VESTL1	6' - 0"	7' - 0"	S2	STL	10	НМ		
12.1	R002	STAIRL2	6' - 0"	7' - 0"	F	STL	1	НМ	60	
12.2	R012	VESTL2	6' - 0"	7' - 0"	S2	STL	10	НМ		
)22.1	R022	VESTGS	9' - 0"	8' - 6"	G	STL	11	НМ		
00.1	R100	MAIN OFFICE	3' - 0"	7' - 0"	F	WD	1	НМ		
00.2	R100A	CONFERENCE	3' - 0"	7' - 0"	F	WD	1	НМ		
00.3	R100A	CONFERENCE	3' - 0"	7' - 0"	F	WD	1	НМ		
200.5	R200	GATHERING SPACE	6' - 0"	7' - 0"	G	STL	12	НМ		DOUBLE EGRESS FRAME
200.6	RCORR2	CORR2	3' - 0"	7' - 0"		WD		HM		EXISTING; Hardware to be Replaced
31.1	R231	CANADA	3' - 0"	7' - 0"	F	WD	1	НМ	SMOKE	
31.2	RCORR4	CORR4	3' - 0"	7' - 0"	F	WD	1	HM	SMOKE	
50B.1	R250B	SOMALIA	3' - 0"	7' - 0"	G	WD	9	HM	SMOKE	
50C.1	R250C	SENEGAL	3' - 0"	7' - 0"	G	WD	9	HM	SMOKE	
50C.2	RCORR2	CORR2	3' - 0"	7' - 0"	F	WD	1	HM	SMOKE	
250D.1	R250D	AFGHANISTAN	3' - 0"	7' - 0"	G	WD	9	НМ	SMOKE	
260.1	RCORR2	CORR2	3' - 0"	7' - 0"		MTL		НМ		EXISTING; Hardware to be Replaced
260.2	RCORR1	CORR1	6' - 0"	7' - 0"		MTL		HM		EXISTING; Hardware to be Replaced

6

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2" AT LGMF 4" AT CMU	2", 2".		2".	
		8 <sup>, -</sup> 8		2"
7	2" FI	12' - 5" + - ELD VERIFY OF	PENING	2"
8'-10" 3'-6" 10" 8"				
Door Fra	ame Legend	<u>&lt;11</u> >		

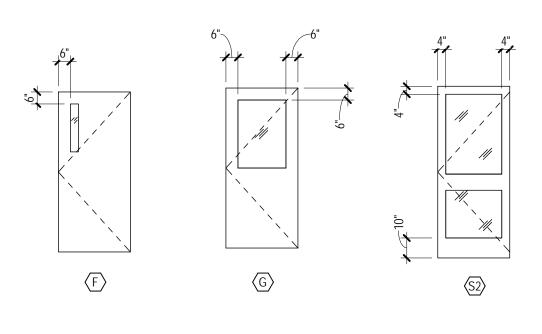
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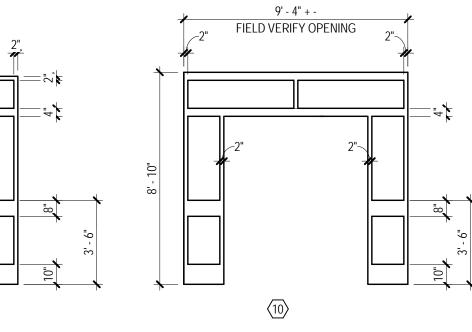
## GLAZING. GL2 = TEMPERED GLAZING FOR ALL INTERIOR DOORS AND OFFICE SIDE LITES THAT DO NOT NEED SECURITY PURPOSES.

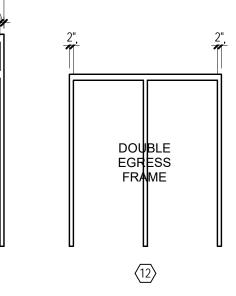
Door Elevation Legend

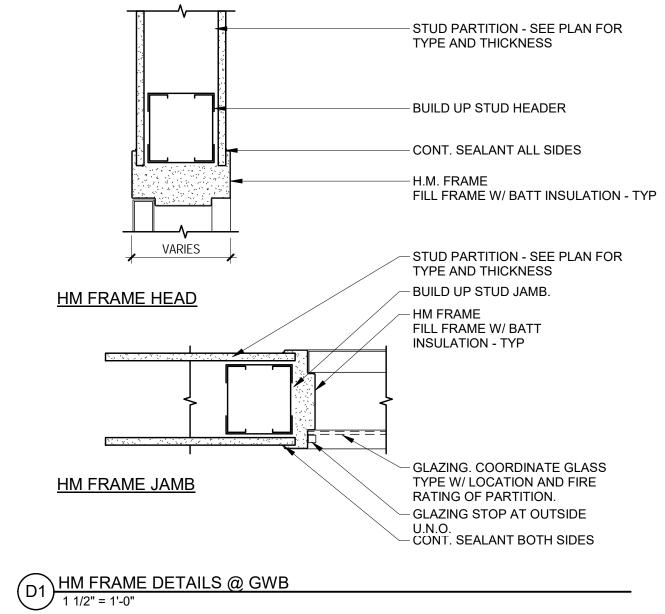
NOTE: GL1 = LAMINATED SAFETY GLAZING. FOR USE AT SECURITY DOORS AND EXTERIOR DOORS WITH

4









1

Room Finish Schedule								
			BAS	WALLS				
NUMBER	ROOM NAME	FLO OR	E MAT L	N	S	E	W	
R250B	SOMALIA	EXG	RB	PT	PT	PT	PT	
R250B	SOMALIA	VCT	RD	PI	PI	PI	PI	
R100	MAIN OFFICE	CPT	RB	PT	PT	EXG BR	PT	
RCORR1	CORR1	EXG VCT / CPT	RB	PT	PT	PT	PT	CARI DOO OF C ONL
R250C	SENEGAL	EXG VCT	RB	PT	PT	PT	PT	
RCORR2	CORR2	EXG VCT	RB	PT	PT	PT	PT	
R011	VESTL1	MAT	RB	PT	PT	PT	EXG BR	
R200	GATHERING SPACE	CPT	RB	PT	PT	PT	PT	
R022	VESTGS	CPT	RB	PT	PT	PT	PT	
R012	VESTL2	VCT	RB	PT	PT	PT	EXG BR	
R002	STAIRL2	RB	RB	VWC	GFBL	GFBL	GFBL	VINY NOR
R001	STAIRL1	MAT	RB	VWC	GFBL	GFBL	GFBL	
R250D	AFGHANISTAN	EXG VCT	RB	PT	PT	PT	PT	PATO
R250A	FRANCE	EXG VCT	RB	PT	PT	PT	PT	PATO
R801	STORAGE	CPT	RB	PT	PT	PT	PT	
R100A	CONFERENCE	CPT	RB	PT	PT	EXG BR	PT	
R231	CANADA	EXG VCT	RB	PT	PT	PT	PT	PATO
RCORR4	CORR4	EXG	RB	PT	PT	PT	PT	1

FINISH KEY:

CPT	CARPET
RB	RUBBER BASE
MAT	ENTRY MAT
VWC	VINYL WALLCOVERING
PT	PAINT
VCT	VINYL COMPOSITION TILE
EXG	EXISTING

VINYL WALL COVERING VYC

BR BRICK

FINISH NOTES:

1. PAINT ALL NEW AND EXISTING EXPOSED DRYWALL IN AREAS OF WORK.

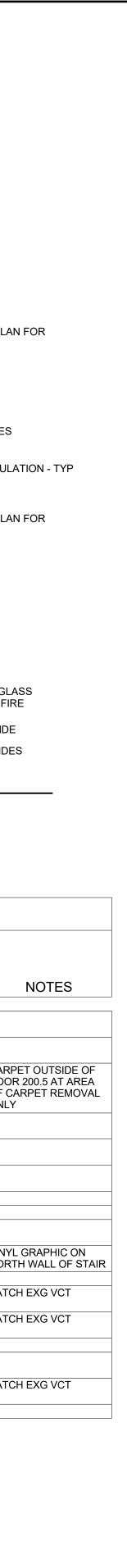
2. PAINT ALL STEEL STAIR FRAMING, GUARD AND HANDRAILS.

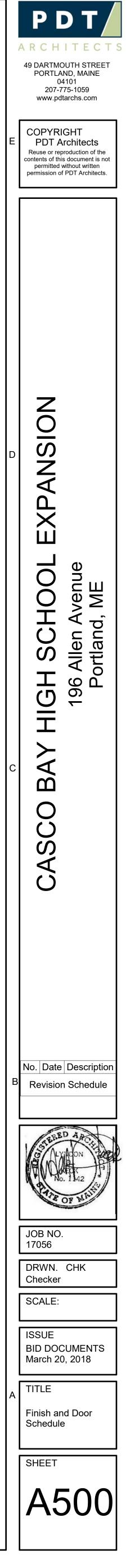
3. PAINT BOTH SIDES OF ALL NEW AND EXISTING HOLLOW METAL FRAMES IN AREAS OF WORK.

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4. PAINT BOTH SIDES OF ALL NEW AND EXISTING HOLLOW METAL DOORS IN AREAS OF WORK.

5. PROVIDE TRANSITION STRIPS BETWEEN DIFFERENT FLOORING TYPES.





MINIMUM LC	ADING			
			SNOW LOC	ATIONS
В. <u>RO(</u> а.			<u>RMINE DRII</u> P <sub>G</sub> =	<u>TING S</u>
ч.	i. ii.	IMPORTANCE FACTOR: COLD ROOF SLOPE FACTOR:	= Cs =	1.10 1.0
	iv.	EXPOSURE FACTOR:	Ct= Ce= B	1.1 1.0
			P <sub>f</sub> =	51.0 PS
-			Poi =	35.0 PS
b.	ST	AIR TOWER TEMPORARY ROOF		$P_{DL} =$
-			20 PSF	
			<u>UNIFOF</u>	<u>RM</u>
a.	i. II.	CLASSROOMS CORRIDORS ABOVE 1 <sup>ST</sup> FLOOR	40 PSF 80 PSF	=
	iii.	1 <sup>ST</sup> FLOOR CORRIDORS		=
b.	i.	OFFICES	50 PSI	
F. <u>WIN</u>		UURRIDURD ABUVE 1° FLOOR	80 PSF	
		Wind Des	ign Data	100 :
		Occupancy Category:		III 1.15
		Enclosure Classification: Internal Pressure Coefficient:		Encl 0.18
		Components and Cladding: Roofing Zone 1:	8.8 psf ma	
		Roofing Zone 2: Roofing Zone 3:	8.8 psf ma	
		Roofing at Zone	-	s: 31.3
		Stucco, Cladding, Doors & Windows:	21.7 psf ma	
		Zone 5: End Zone Width:	21.7 psf ma	ix., 29.1 3.50
		This Building is not in a Wind-Borne protection is not required.	e Debris Reg	
G. SEISM	1IC			
a.		N DATA:		
	ii.	SEISMIC IMPORTANCE FACTOR:		
	iv. v.	MAPPED RESPONSE SPECTRAL A SOIL SITE CLASSIFICATION:		
	vi.	SITE COEFFICIENTS:	CC. @ 5% [	DAMPEC
			GSVSTEM	
	x. xi.	FUNDAMENTAL PERIOD SEISMIC RESPONSE COEFFICIEN		
	xiii.	ANALYSIS PROCEDURE:		<u>EQUIV</u>
b.	DESIG i.	(H1) STEEL SYSTEMS NOTE SPEC		DETAILE
		1. ORDINARY STEEL CONCE a. RESPONSE MODI	ENTRICALL	Y BRACI
STRUCTUS	V 07-	c. DEFLECTION AMP	PLIFICATIO	N FACT
CONSTRUC MISCELLAN	TION I EOUS F	MANUAL. STEEL BEAMS SHAL PLATES, SHAPES, CHANNELS, ANG	L CONFO	RM TO SHALL C
BE UNPAIN ASTM A500.	TED AN STEEL	ID UNPRIMED. STEEL TUBING: CO PIPE: ASTM A53, STANDARD WEIG	OLD-FORME GHT (SCHE	ED STE
IS INDICATE	D OR R	REQUIRED BY STRUCTURAL LOADS.		
				U
			REQUIRED	AT COI
			I SHALI RE	
A. ANO B. NUT	HOR R	CODS: 3/4" Ø ASTM F1554, UNO M A563, GRADE A	UC	
C. WA	SHERS	: ASTM F4367		BUIL אורז
SER. DISCI	REPANO	CIES SHALL BE BROUGHT TO THE	ATTENTIO	N OF TH
	, SHAL	LE DE REPORTED TO THE OWNER, E	JUILUING (	JEFICIAL
				- REQU
WASHERS	SHALL	CONFORM TO ASTM F436, NUTS S	SHALL CON	IFORM <sup>-</sup>
CRITICAL (S		NNECTIONS AT MOMENT CONNEC	CTIONS, BF	
	A. ROG B. ROG B. ROG b. C. ROG a. D. ROG a. D. ROG a. D. ROG a. E. FLC a. F. VIN F. VIN G. SEISM a. C. SEISM a. C. SEISM a. D. F. VIN SER J. C. SEISM C. SEISM A. AND STEEL JOIST SEE ARCHIT STEEL JOIST SEE ARCHIT C. WASHERS SE NECTIONS: SEE ARCHIT C. WASHERS SE CORRECTED SEE ARCHIT SEE ARCHIT C. WASHERS SE SEE ARCHIT SEE ARCHIT C. WASHERS SE SEE ARCHIT SEE ARCHIT SEE ARCHIT C. WASHERS SE	A. ROOF SNO B. ROOF SNO A. GOOF SNO A. GROUI A. GROUI A. FLAT F C. ROOF DEA A. FL D. ROOF LIVE A. STANE E. FLOOR LIV A. SCHOO I. III B. OFFIC I. III F. WIND: C. WIND: A. DESIG A. DESIG A. DESIG A. DESIG I. I. III A. DESIG A. DESIG I. I. III A. DESIG I. I. III III III III III III III III	<ul> <li>B. BOOF SNOW LOADS: LOADS: LEOR TO DETER</li> <li>a. GROUND SNOW LOAD:</li> <li>i. MPORTANCE FACTOR:</li> <li>ii. COLD ROOF SLOPE FACTOR:</li> <li>iii. THERMAL FACTOR:</li> <li>iv. EXPOSUBLE FACTOR:</li> <li>iv. EXPOSUBLE FACTOR:</li> <li>v. TERRAIN CATEGORY:</li> <li>b. FLAT ROOF SNOW LOAD:</li> <li>C. BOOF LIVE LOAD:</li> <li>a. FUTURE: 3<sup>ID</sup> FLOOR/ROOF:</li> <li>b. STAIR TOWER TEMPORARY ROOF</li> <li>D. BOOF LIVE LOAD:</li> <li>a. STANDARD ROOF LIVE LOAD:</li> <li>E. ELOOR LIVE LOADS:</li> <li>a. SCHOOLS</li> <li>i. CORRIDORS ABOVE 1<sup>ST</sup> FLOOR</li> <li>ii. CORRIDORS ABOVE 1<sup>ST</sup> FLOOR</li> <li>WIND 2</li> <li>Wind Speed:</li> <li>Wind Dest</li> <li>Wind Dest</li> <li>Wind Dest</li> <li>Wind Dest</li> <li>Components and Cladding:</li> <li>Roofing Zone 1: Roofing Zone 3: Roofing Zone 3: Roofing Zone 3: Roofing Zone 3: Zone 4: Zone 5: End Zone Width:</li> <li>This Building is not in a Wind-Borne protection: is not required.</li> </ul> G. SEISMIC <ul> <li>a. DESIGN DATA:</li> <li>i. BUILDING RISK CATEGORY:</li> <li>ii. ESIGN DATA:</li> <li>ii. BUILDING RISK CATEGORY:</li> <li>ii. ESIGN CORFERCIONS SPECTRAL A Wind SPEED RESPONSE SPECTRAL A WIN SEISMIC DESIGN CATEGORY:</li> <li>ii. ESIGN CORFERCIENTS: WIN APPED RESPONSE SPECTRAL A WIN SEISMIC DESIGN CATEGORY:</li> <li>ii. ESIGN CORFERCIENTS: NORDINARY STEEL SPECTRAL A WIN SEISMIC DASIS MADE SPECTRAL A WIN SEISMIC D</li></ul>	A.         RCORE SNOW LOADS         LEXA TO REFINE SNOW LOAD           B.         ROOF SNOW LOADS         LEAR TO DETERMINE DELI           B.         COLD ROOF SLOPE FACTOR:         C.=           B.         COLD ROOF SLOPE FACTOR:         C.=           B.         COLD ROOF SLOPE FACTOR:         C.=           W.         EXPOSITIVE FACTOR:         C.=           B.         FLAT ROOF SNOW LOAD:         Pr=           C.         RCOE ELVE LOAD:         20           B.         STANDARD ROOF LIVE LOAD:         20           B.         STANDARD ROOF LIVE LOAD:         20           B.         SCHOOLS         MONED           B.         CORRIDORS ABOVE 1 <sup>107</sup> FLOOR         80           B.         OFFICES         100 RSI           B.         OFFICES         100 RSI           B.         OFFICES         100 RSI           B.         OFFICES         20 RSI           B.         OFFICES         100 RSI           B.         OFFICES         20 RSI           B.         OFFICES         20 RSI           B.         OFFICES         20 RSI           B.         OFFICES         20 RSI           B.         <

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6

<ul> <li>A. LINE CONTROL ON THOSE UNITS ALLOW</li> <li>A. LINE CONTROL ON THOSE UNITS ALLOW AND AL</li></ul>		4	3
<ul> <li>A. BANG TORE LETDRE. 201         <ul> <li>A. BANG TORE LETDRE. 201             </li> <li>A. BANG TORE LETDRE. 201             <li>A. BANG TORE LETDRE. 201             <li>A. BANG TORE LETDRE. 201             </li> <li>A. BANG TORE LETDRE. 201             <li>A. BANG TORE LETDRE. 201             </li> <li>A. BANG TORE LETDRE. 201</li></li></li></li></li></li></li></li></li></li></li></li></li></li></ul></li></ul>			
7. THE STRUCTURAL FABRICATOR AND ERECTOR SHALL SCHEDULE ALL WORK TO ALLOW THE ABOVE INSPECTION AND TESTING REQUIREMENTS TO BE COMPLETED. INSPECTION AND TESTING REQUIREMENTS TO BE COMPLETED. ISON HIGH STRENGTH BOLTS (U.N.O.) EXCEPT ND NOTED BY A325 (SC) ON THE DRAWINGS. LL CONFORM TO ASTM A563 PROVIDE SLIP	NUMERAL PROPERTING SNOWLOCATIONS) Proference of the structure of the str	<ul> <li>SUP ONTICAL (S.G.) ROLLED DOWNOTIONS SHALL BE CHORED AND INSPECTED USING OVE OF THE EXCLORING.</li> <li>A. TURNET DE NUT</li> <li>C. OLDETTE MECHONIC</li> <li>C. ALTERNIT, DE SIGNASTIONE</li> <li>C. DIELET BURCH DOWNOTIONS SHALL BE TREMENDED TO TRUCT THE CONDITION MULTERS</li> <li>C. DIELET BURCH DOWNOTIONS SHALL BE TREMENDED TO TRUCT THEME TO COLUMN DOWNOTION WALLS AND LETTINE CONNECTIONS SHALL BE TREMENDED TO TRUCT THEME TO COLUMN DOWNOTION WALLS AND LETTINE DESCRIPTION OF ANY CONNECTION SUBLESS SECTIONS THE DOWNOTION WALLS AND LETTINE DESCRIPTION OF ANY CONNECTION SUBLESS SECTIONS IN PROVIDE OR SUCTED CONSISTENT ON A THREAD IN SECTION TAKEN TO COLUMN DOWNOTION WALLS AND LETTINE DESCRIPTION OF ANY CONNECTION SUBLESS SECTIONS IN PROVIDED ON THE DOWNORS OF APPROVED IN WHITING PERMONEL ON ANY CONNECTION SUBLESS SECTIONS IN PROVIDENT OF ALL DOWNORS OF APPROVED IN WHITING PERMONEL ON THE DESCRIPTION IN PROVIDENT SID SHALL AND THE CONNECTION SHALL BE 2</li> <li>A. TERMINE DOWNORS THE REPORTED DATE THE DESCRIPTION OF THE DESCRIPTION OF THE DESCRIPTION SID SHALL AND THE CONNECTION SHALL BE REPORTED AND ANY CONTROL ON THE DESCRIPTION SID SHALL AND THE CONNECTION SHALL BE TREAD ON THE DESCRIPTION OF THE DESCRIPTION SID SHALL AND THE DESCRIPTION OF THE DESCRIPTION OF THE DESCRIPTION SID SHALL AND THE DESCRIPTION OF THE DESCRIPTION OF THE DESCRIPTION SID SHALL AND THE DOWN AND ORIGINAL SHALL BE WALLD SHALL SHALL BE THE DESCRIPTION OF THE STATUS THE DESCRIPTION OF THE DESCRIPTION OF THE DESCRIPTION OF THE DESCRIPTION OF THE DOWN AND AND DESCRIPTION OF THE DESCRIPTION OF THE DESCRIPTION OF THE DESCRIPTIONE DESCRIPTION OF THE DESCRIP</li></ul>	FOUNDATIONS:         1. NET ALLOW         1. NET ALLOW         2. EXTERIOR 2         3. 10 MIL VAPC         4. UNDERDRA         INSTALLED         REFER TOS         5. EXCAVATIO         SOLELY RE         BRACES TO         7. CONCRETE         10. NO CA         FOUNDATIO         SOLELY RE         BRACES TO         7. CONCRETE         10. CONCRETE         11. CONCRETE         12. CONTRACT         REMAIN IN 1         3. CONCRETE         13. CONCRETE         14. CONCRETE         15. EXEMPTION         16. ACONCRETE         17. CONCRETE         18. ALL CONCRETE         19. NOI         10. WELDING         11. CONCRETE         12. ADMIXTURE         13. POOVIDE PI         14. CONCRETE         15. PROVIDE PI         16. REINFORCI         17. COMPLETE         18. ALL CONST         19. CONTRACT         110. WELDING O         111. MECHANICA         112. ADMIXTURE         DIRECTON         113. PROVID
NO REALED FRANCE RELEVANCE AND FO	ONS, BRACED FRAMES, RELIEVING ANGLES		(E)

4

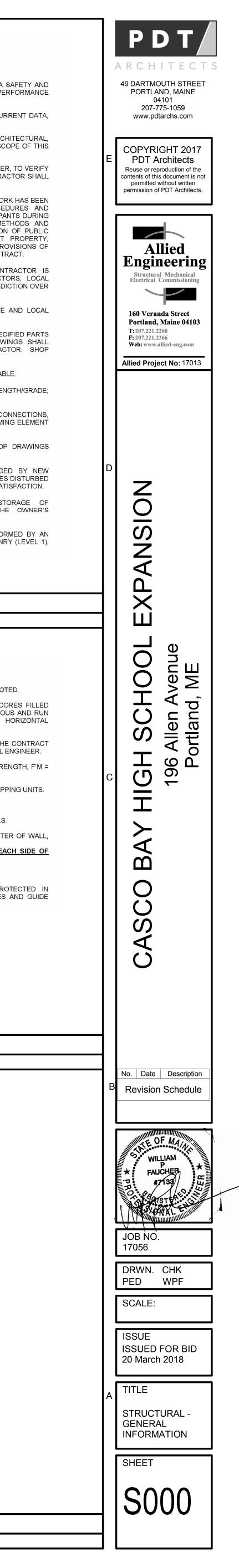
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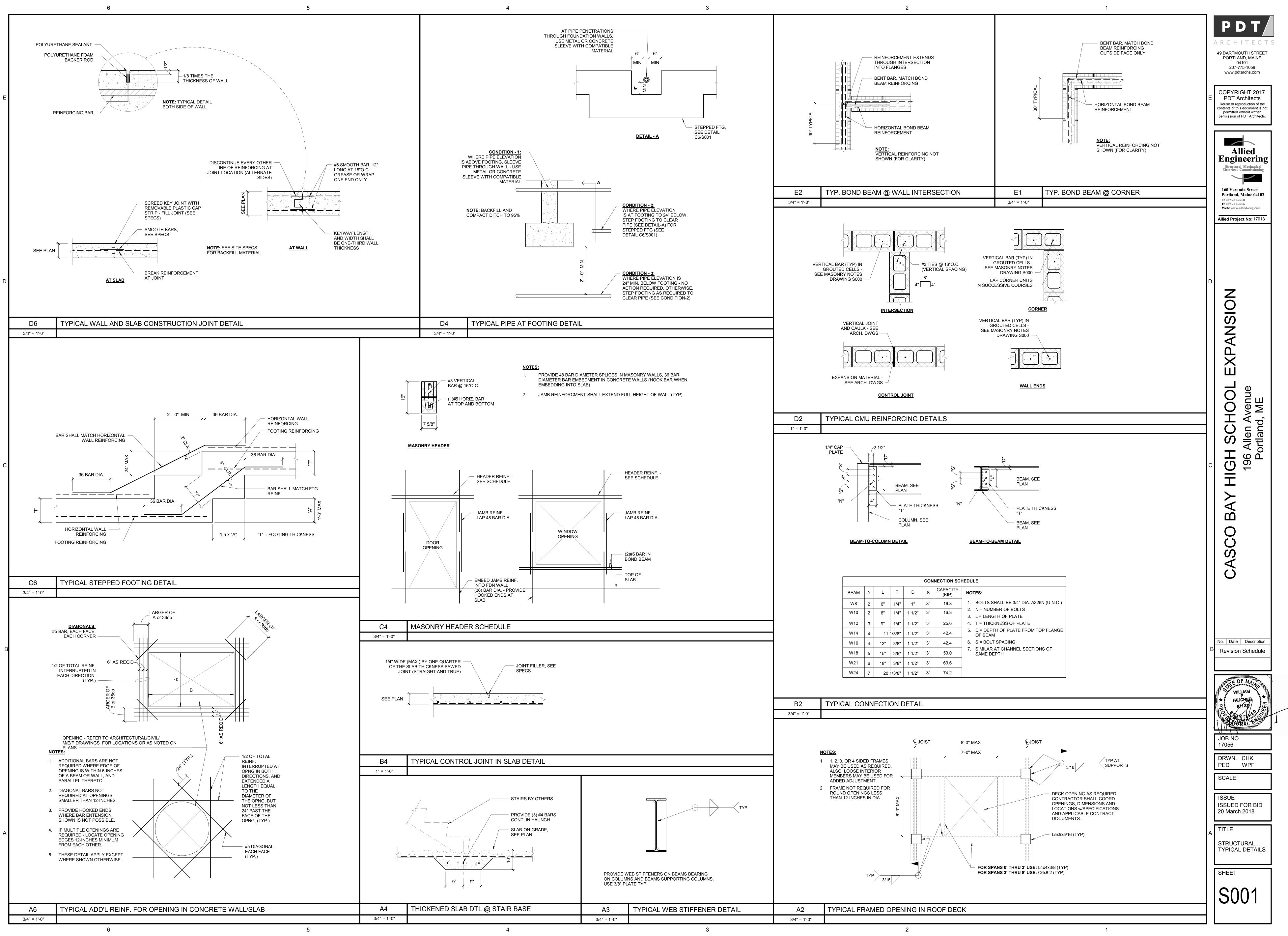
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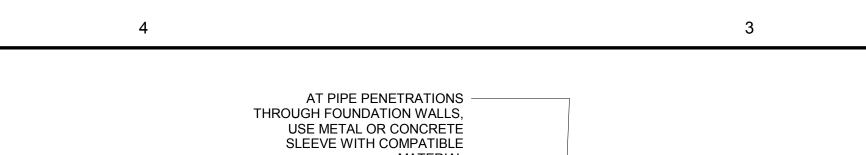
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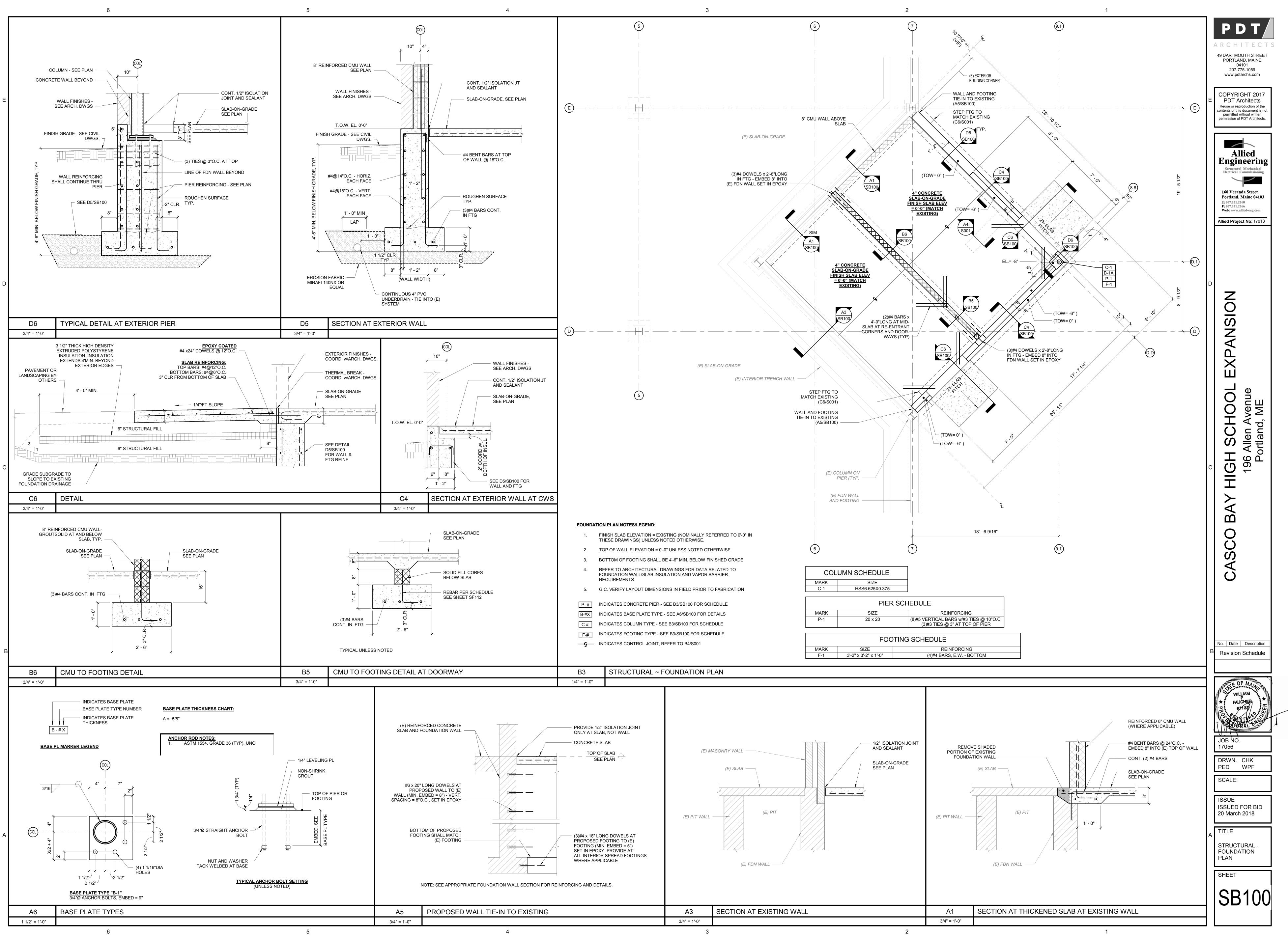
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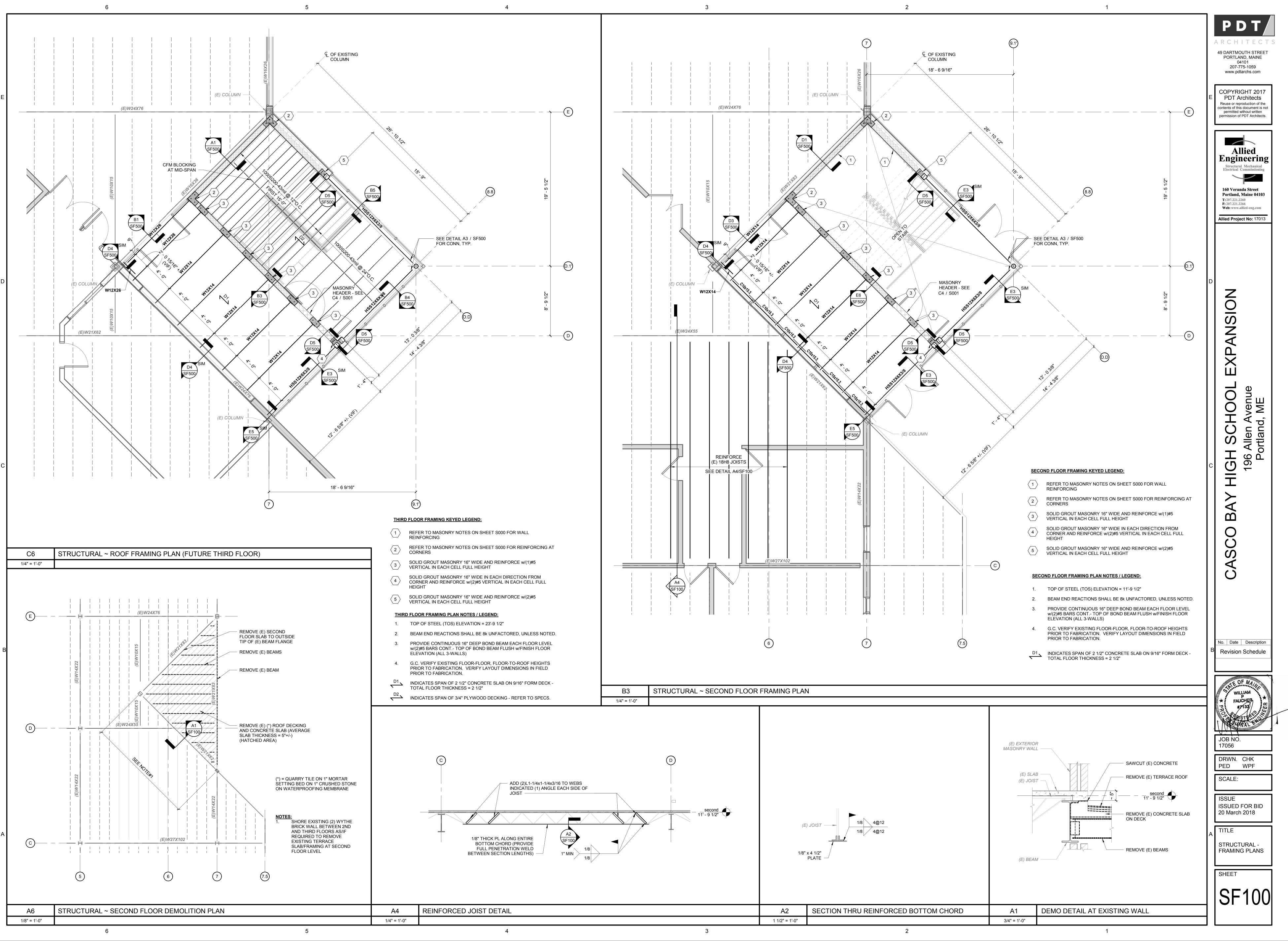
TESTING A         2.       EXTERIOR FOOTING E         3.       10 MIL VAF         4.       UNDERDR/INSTALLED REFER TO         5.       EXCAVATION STALLED REFER TO         5.       EXCAVATION STALLED REFER TO         6.       IN NO C. FOUNDATE SOLELY R         FOUNDATE SOLELY R       BRACES TO         7.       CONCRETE:         1.       CONCRETE:         2.       CONTRACTER         3.       CONCRETE:         4.       CONCRETE:         6.       REINFORC         D.       NO         6.       REINFORC         D.       NO         6.       REINFORC         0.       NO </th <th>WABLE BEARING PRESSURE(S) LISTED BELOW SHALL BE VERIFIED BY THE OWNERS GENCY PRICE TO PLACING FOOTING CONCRETE - ASSUMED AS BEING 20 KSF. STRP AND SPEAD FOOTINGS SHALL HAVE MINIMUM 4.6' GRADE COVER TO BOTTOM OF BLEVATIONS. STRP AND SPEAD FOOTINGS SHALL HAVE MINIMUM 4.6' GRADE COVER TO BOTTOM OF BLEVATIONS. SOR BARRIER REQUIREMENTS BENEATH SLABS THROUGHOUT. AND SHALL BE PLACED AS SHOWN ON THE SITE DRAWINGS. UNDERDRAINS SHALL BE DIF DRAWINGS FOR ADDITIONAL INFORMATION. STRP CRAUNDING FOUNDATIONS AND STRUCTURES SHALL BE IN ACCORDANCE WITH QUIREMENTS. BRACED EXCAVATIONS SHALL BE DISIGNED BY A PROFESSIONAL THE CREATERED IN THE PROJECT STATE. DO NOT UNDERMINE EXISTING CONCENT STRP CRAUNDER FOUNDATIONS AND STRUCTURES SHALL BE IN ACCORDANCE WITH QUIREMENTS. BRACED EXCAVATIONS SHALL BE DESIGNED BY A PROFESSIONAL STRE SHALL HEAVY EQUIPMENT BE PERMITTED CLOSER THAN 8'-0' FROM ANY OWBASEMENT WALL. IF THE DESIGNABULD CONTRACTOR MALCENT SUCH COUNTROL CLOSES THAN 8'-0'. THE DESIGNABULD CONTRACTOR SHALL BE EXPORMESHED IN THE PROVIDE ADDIS SUPERIMENTS FOR FEMILOSUMENT. E SHALL NOT BE PLACED ON FROZEN GROUND CR IN WATER. E WORK SHALL COMPLY WITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE STALL BE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"; AND ACI 315 TOR SHALL PROVIDE THES AND BRACING WHENE RECESSARY DURING CONSTRUCTION, TO INFORM THE ADDITIONAL LOADS SUPERMENDER DECESSARY DURING CONSTRUCTION, TO INFORM THE STRUCTURES ARE COMPLETE. E SHALL BE DITINGS, DERIES AND FOUNDATION WALLS: 3500 PSI AT (28) DAYS. SLUMP SHALL NOT GEEDS INCHES (WC RANGE 0.4'S - 0.50), MAXIMUM AGGREGATE SHALL BE 34''. E MATERIA: THEROR SLABS CONGRADE (0.4'S - 0.50), MAXIMUM AGGREGATE SHALL BE 34''. E HATERING SLABS. SOR ORD CONCRETE AT (28) DAYS. SLUMP SHALL NOT GEEDS INCHES (WC RANGE 0.4'S - 0.50), MAXIMUM AGGREGATE SHALL BE 4''. E SHALL BE! STITUME CHARGE ON CONCRETE AT (28) DAYS. SLUMP SHALL NOT EXCEED S INCHES (WC RANGE 0.4'S - 0.50), MAXIMUM AGGREGATE SHALL BE 4''. E HATERIAL: STITUME CHARGE ASTING ON THE</th> <th><ul> <li>b. ASCE 7-</li> <li>2. CONTRACTOR S HEALTH STAND OF THIS PROJECT</li> <li>3. 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MASONRY LAID</li> <li>13. MANIMICHIAL IN ACONTRACTOR</li> </ul></th> <th>A TIONAL BUILDING CODE – 2009 EDITION 5 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES SHALL CONFORM TO SAFETY REQUIREMENTS OF THE OWNER, OSHA SA ARDS, AND OTHER LOCAL AUTHORITIES IN CONNECTION WITH THE PERF CT. ED STANDARDS OR PUBLICATIONS SHALL PERTAIN TO THE MOST CURRE PUBLICATION, UNLESS NOTED OTHERWISE. DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHIT LUMBING, ELECTRICAL AND CIVIL DRAWINGS WHICH DESCRIBE THE SCOP SHALL WIST THE SITE AT A DESIGNATED TIME APPROVED BY THE OWNER ; TIONS, DIMENSIONS, LOCATION OF EXISTING SYSTEM ONCE ALL WORK CONTRACTOR IS SOLELY RESPONSIBLE FOR ERECTION PROCEDU INSTALLATION TO ENSURE SAFETY OF THE BUILDING AND ITS OCCUPANT 4. CONTRACTOR SHALL BE RESPONSIBLE FOR MENDING PROTECTION OF S. REMOVAL OF WASTE MATERIAL, PROTECTION OF ALS AND S. REMOVAL OF WASTE MATERIAL, PROTECTION OF ALS CONTRACTOR S. 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B2	CONCRETE NOTES	B1	MASONRY NOTES
	7         7.5         9.1'		
(E)	EXISTING ROOF ABOVE 8.8	E	BASIC SNOW= 51.0PSF DRIFT-1
	CU-1 COORD w/MECH DWGS (WEIGHT = ~200#) EXISTING ROOF ABOVE SLEEPERS - COORDIN w/ARCH. DWGS (SPAN 3 EXISTING ROOF MEN	I ACROSS	BASIC SNOW LOAD   Image: DRIFT SNOW LOAD   LEGEND
©— –			
A 0			
A2	STRUCTURAL ~ ROOF LOADING PLAN		

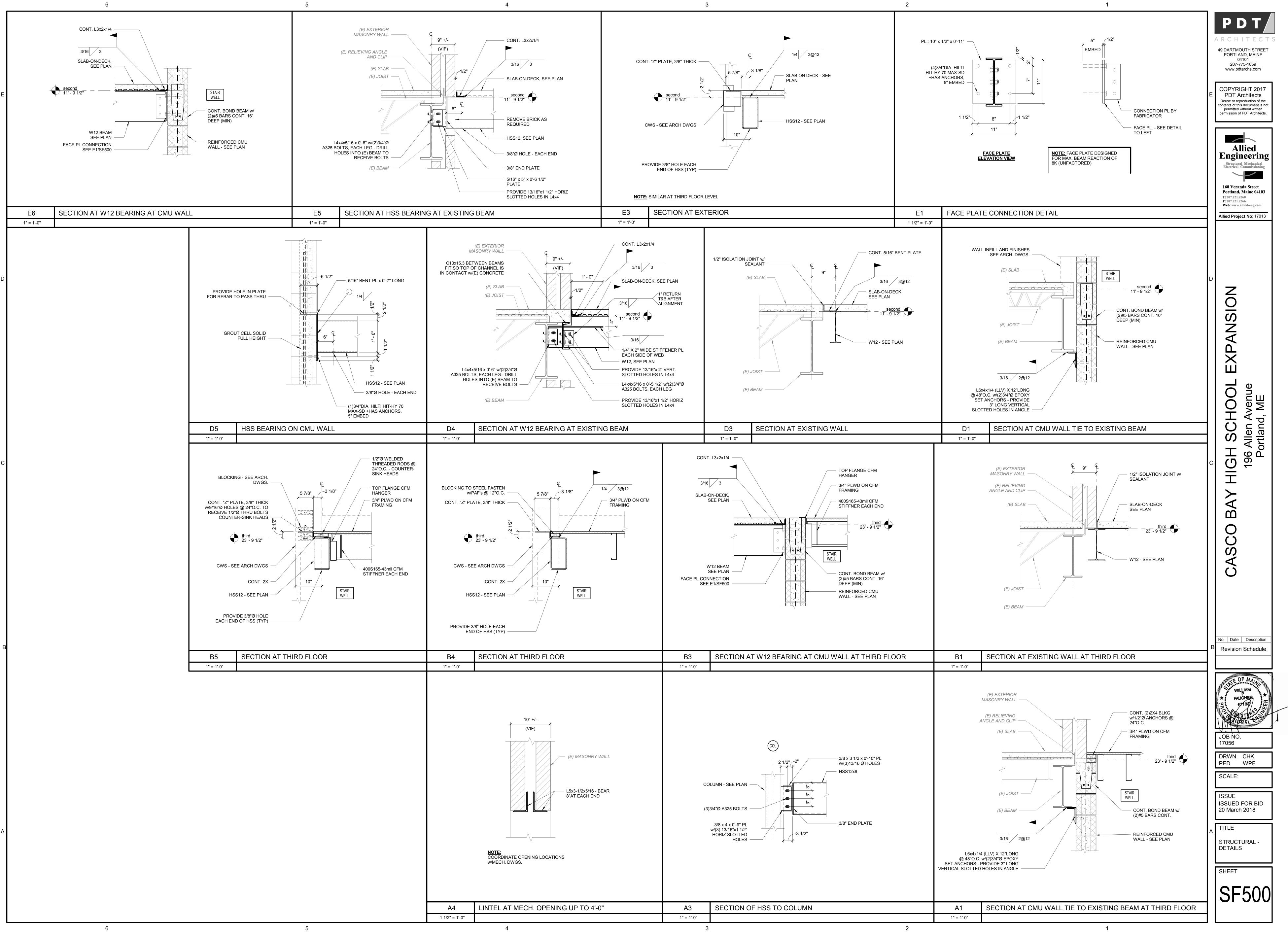


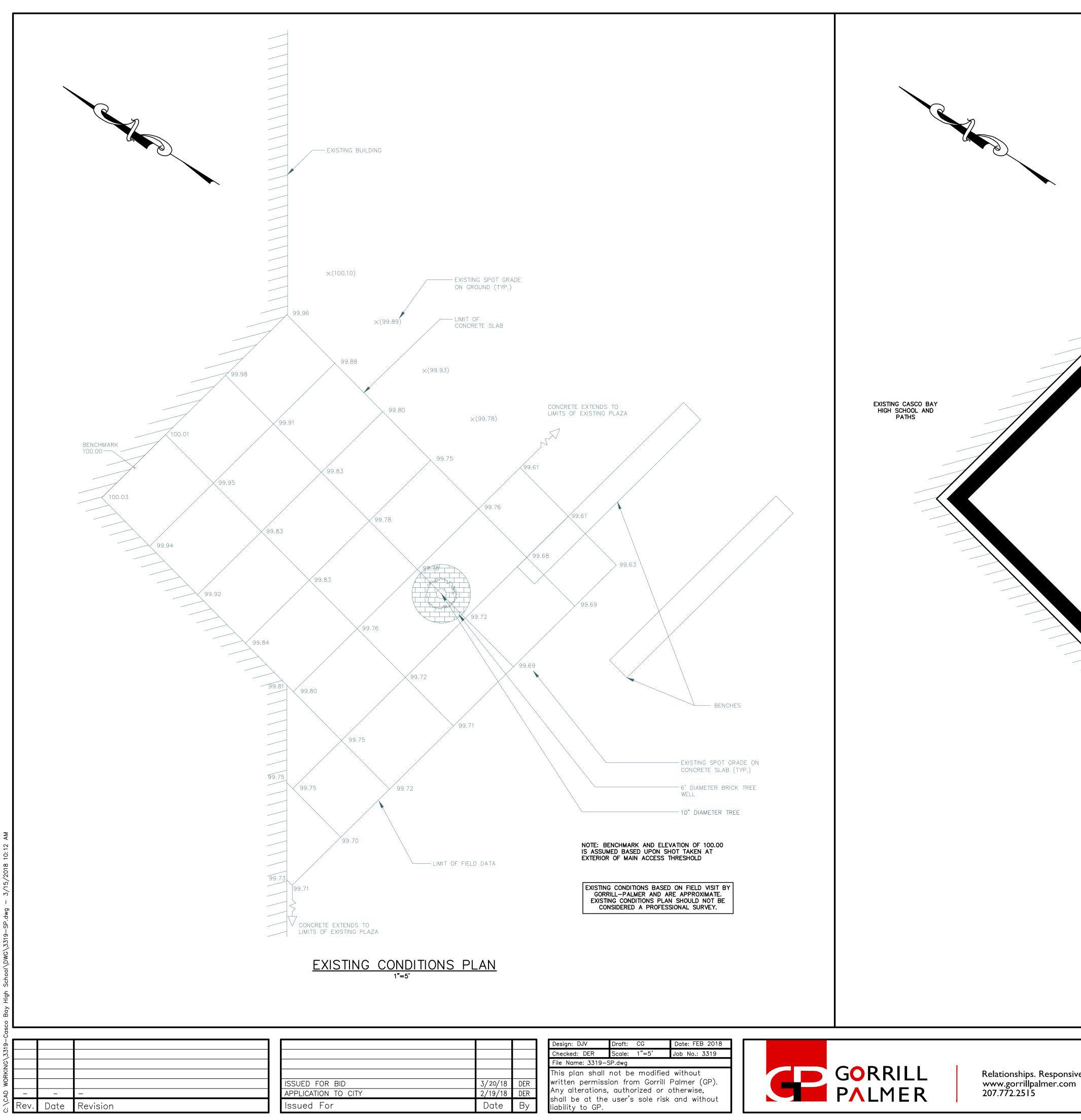












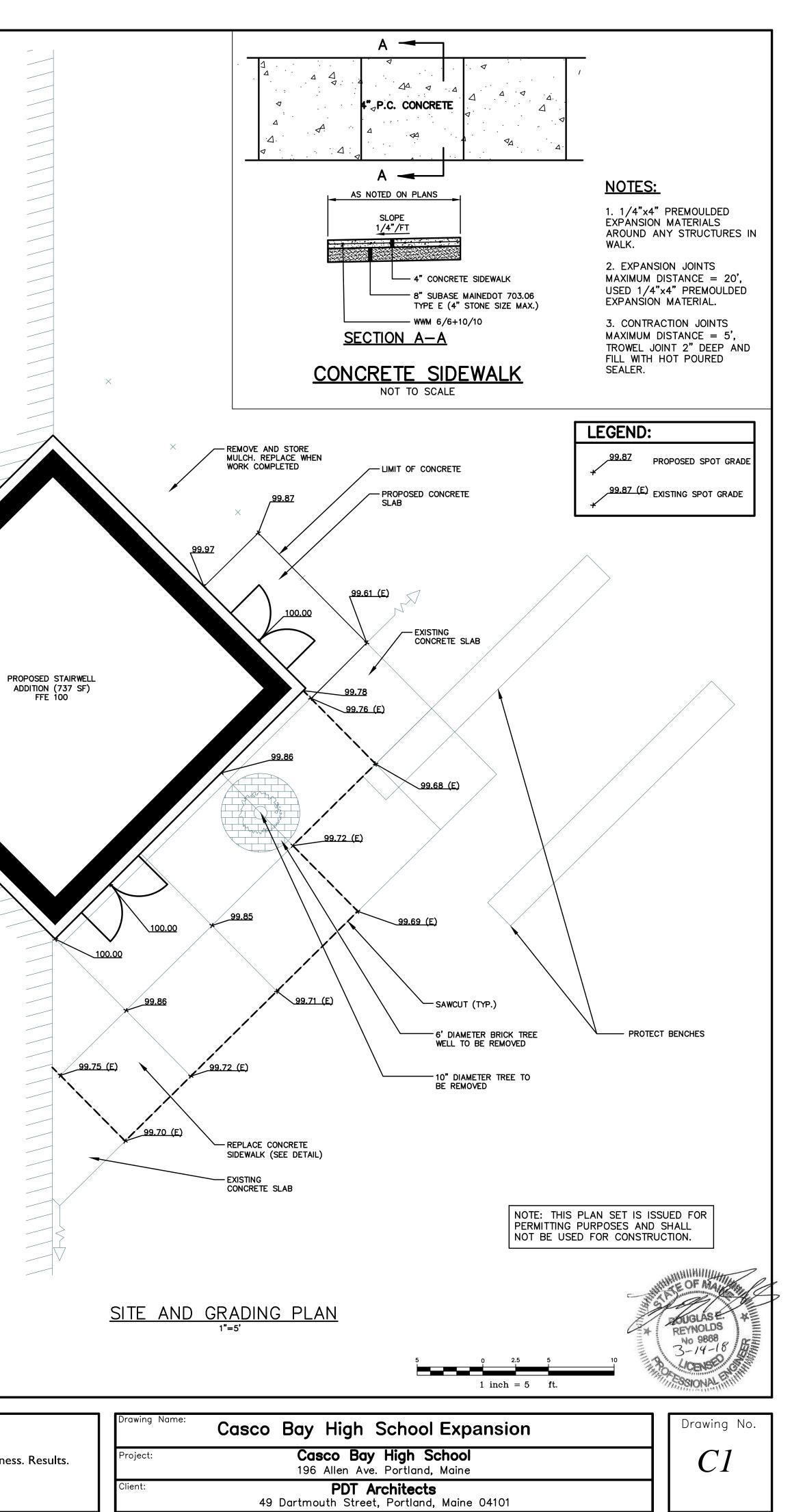
Design: DJV	Draft: CG	Date: FEB 2018
Checked: DER	Scale: 1"=5'	Job No.: 3319
File Name: 3319-5	SP.dwg	
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Any alterations, shall be at the	authorized or a	otherwise,
shall be at the	user's sole risk	and without
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PIPE ELBOW TURNED DN GLOBE VALVE   PIPE ELBOW TURNED UP IOCKABLE BALL VALVE   PIPING TEE DOWN IOCKABLE BALL VALVE   PIPING TEE UP IOCKABLE BALL VALVE	
→ → → → → ↓       LOCKABLE BALL VALVE         → → → ↓       PLUG VALVE         → → → ↓       PLUG VALVE         → → ↓       PLUG VALVE         → → ↓       PLUG VALVE         → ↓       PLUG VALVE         → ↓       PLUG VALVE	
→ →       PIPING TEE DOWN       →       ↓	
PIPING TEE UP     2-WAY CONTROL VALVE	
PIPE RISER	
— — — PIPING TO BE REMOVED — K & SHIELD VALVE	
CAPPED PIPING CHECK VALVE	
<ul> <li></li></ul>	
CONCENTRIC REDUCER     AIR VENT ~ REFER	
TO SPECIFICATIONS	
DIRECTION OF FLOW	'N
PIPE PITCHES DOWN	
Image: matrix and the second	
EXPANSION JOINT RELIEF/SAFETY VALVE	
PIPE ANCHOR     PRESSURE GAUGE	
BACKFLOW PREVENTER PRV VALVE	
FLEXIBLE CONNECTION	
SHUT-OFF/ISOLATION VALVE         REFER TO SPECIFICATIONS       SELF-CONTAINED TEMP.	
GATE VALVE ~ OUTSIDE CONTROL VALVE WITH SCREW & YOKE (OS&Y)	

E1

NONE

SYMBOLS LEGEND

AW AW ACID WASTE AIR RELIEF BOILER BLOWDOWN CONDENSATE (HVAC DRAIN PAN) \_\_\_\_\_ C \_\_\_\_\_ COMPRESSED AIR ----CHWR---- CHILLED WATER RETURN ---- CTR ---- COOLING TOWER RETURN COOLING TOWER SUPPLY ----CWR---- CONDENSER WATER RETURN —— – —— DOMESTIC COLD WATER — — — — DOMESTIC HOT WATER — — — — — DOMESTIC HOT WATER RECIRC. DRAIN ------ FM------- PUMP FORCE MAIN ------ FOF ------ FUEL OIL FILL ------ FUEL OIL RETURN ------ FOS ------ FUEL OIL SUPPLY FOV ----- FUEL OIL TANK VENT GLYCOL RETURN GLYCOL SUPPLY GREASE WASTE HUMIDIFICATION LINE HYDROGEN GAS HEAT PUMP WATER RETURN HEAT PUMP WATER SUPPLY HIGH PRESSURE CONDENSATE HIGH PRESSURE STEAM HIGH-TEMP HOT WATER RETURN HOT WATER RETURN HOT WATER SUPPLY ------ INDUSTRIAL WASTE ─── ₩ ─── INDIRECT WASTE

------ LIQUID OXYGEN LIQUID PETROLEUM GAS ------ LOW PRESSURE CONDENS LOW PRESSURE STEAM —— MA——— MEDICAL AIR MEDIUM PRESSURE COND ------ MEDIUM PRESSURE STEAN —— MUW—— MAKE-UP WATER – N2 – NITROGEN —— NG —— NATURAL GAS ------ NITROUS OXIDE -----------------------OXYGEN PC PC PUMPED CONDENSATE PROCESS COLD WATER R PROCESS COLD WATER S REFRIGERANT DISCHARGE ------ REVERSE OSMOSIS WATER TEMPERED WATER RETUR TEMPERED WATER SUPPLY ------ VACUUM PUMP DISCHARG 

A1	PIPING LINETYPE LEGEND	
NONE		
	6	5

------ LIQUID NITROGEN

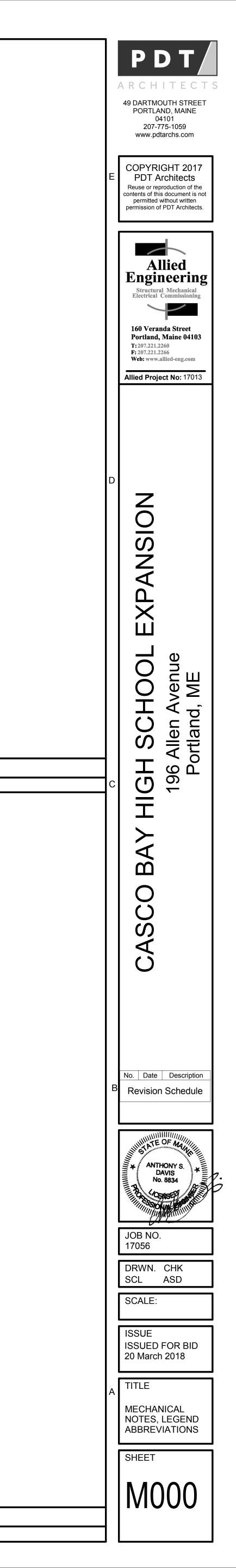
	STEAM TRAP (FLOAT & THERMOSTATIC INDICATED T.T.= THERMOSTATIC TRAP, B.T.= BUCKET TRAP)		EXPANSION LOOP EXPANSION LOOP (BRAIDED/MANUFACTURED)		CHANGE IN ELEVATION (UP, DOWN, RISE OR DROP)		MOTORIZED DAMPER
	PUMP ~ POINT OF	Ø	FLOOR DRAIN		SUPPLY DUCT TURNED UP/DN		FLEXIBLE CONNECTION
	TRIANGLE INDICATES DIRECTION OF FLOW	FD	SHOCK ABSORBER		RETURN DUCT TURNED UP/DN		TEMPERATURE SENSOR OR THERMOSTAT (AS SPECIFIED)
	GAS SHUT-OFF VALVE	SA) QQ	(WATER HAMMER ARRESTER)		EXHAUST DUCT TURNED UP/DN	$(\mathbf{H})$	HUMIDISTAT OR HUMIDITY SENSOR (AS SPECIFIED)
<u> </u>	HOSE END DRAIN		FIRE DEPARTMENT CONNECTION			Co2	CARBON DIOXIDE SENSOR
Ż	VALVE W/CAP	<u>م</u> ہو	FREE STANDING FIRE		ROUND DUCT TURNED UP/DN	Co	CARBON MONOXIDE SENSOR
Ţ	TEMPERATURE/PRESSURE TAP (PETE'S PLUG)	$\bigcirc$	DEPARTMENT CONNECTION		MITERED DUCT ELBOW W/TURNING VANES	AP	ACCESS PANEL
	THERMOMETER WITH COCK		WATER GONG			DSD	DUCT SMOKE DETECTOR
	SOLENOID VALVE	<b> </b>	DUCTWORK ~ FIRST DIMENSION IS SIDE SHOWN IN INCHES		RADIUS DUCT ELBOW	(EF	ROOFTOP EXHAUST FAN
	ORIFICE FLOWMETER	12x8S	S= SUPPLY, R= RETURN, E= EXHAUST AIR, OA= OUTSIDE AIR F.O. = FLAT OVAL			( <b>X</b> ) <u>SF-</u>	ROOFTOP SUPPLY FAN
DP	DIFFERENTIAL PRESSURE TRANSMITTER		ACCOUSTICAL LINING (DUCT		(SINGLE/DOUBLE LINE)	$\square$	CEILING DIFFUSER ~ 4-WAY BLOW
$\mathbb{H}^{\vee \vee \vee \vee}$	HUMIDIFIER (DUCT/AHU MOUNTED)	<u> </u>	DIMENSION FOR NET FREE AREA)		VOLUME DAMPER	$\square$	CEILING DIFFUSER ~ 3-WAY BLOW
	FINNED TUBE BASEBOARD	<u> </u>	DUCTWORK TO BE REMOVED			$\square$	CEILING DIFFUSER ~ 2-WAY BLOW
				FD FD	FIRE DAMPER	$\square$	CEILING DIFFUSER ~ CORNER BLOW
HB/WHYD	HOSE BIB/WALL HYDRANT		SINGLE LINE DUCTWORK TO BE REMOVED				CEILING RETURN GRILLE
© FCO	FLOOR CLEANOUT		DUCT TRANSITION		SMOKE DAMPER		CEILING EXHAUST GRILLE
	FUSIBLE LINK VALVE					$\bullet$	POINT OF CONNECTION - EXISTING TO NEW
	WALL CLEANOUT		SQUARE TO ROUND DUCT TRANSITION	FSD	FIRE AND SMOKE DAMPER	-	DIRECTION OF AIR FLOW
Ţ	AQUASTAT		FLEX DUCT ~ DOUBLE LINE FLEX DUCT ~ SINGLE LINE		BACKDRAFT DAMPER		
				BDD			

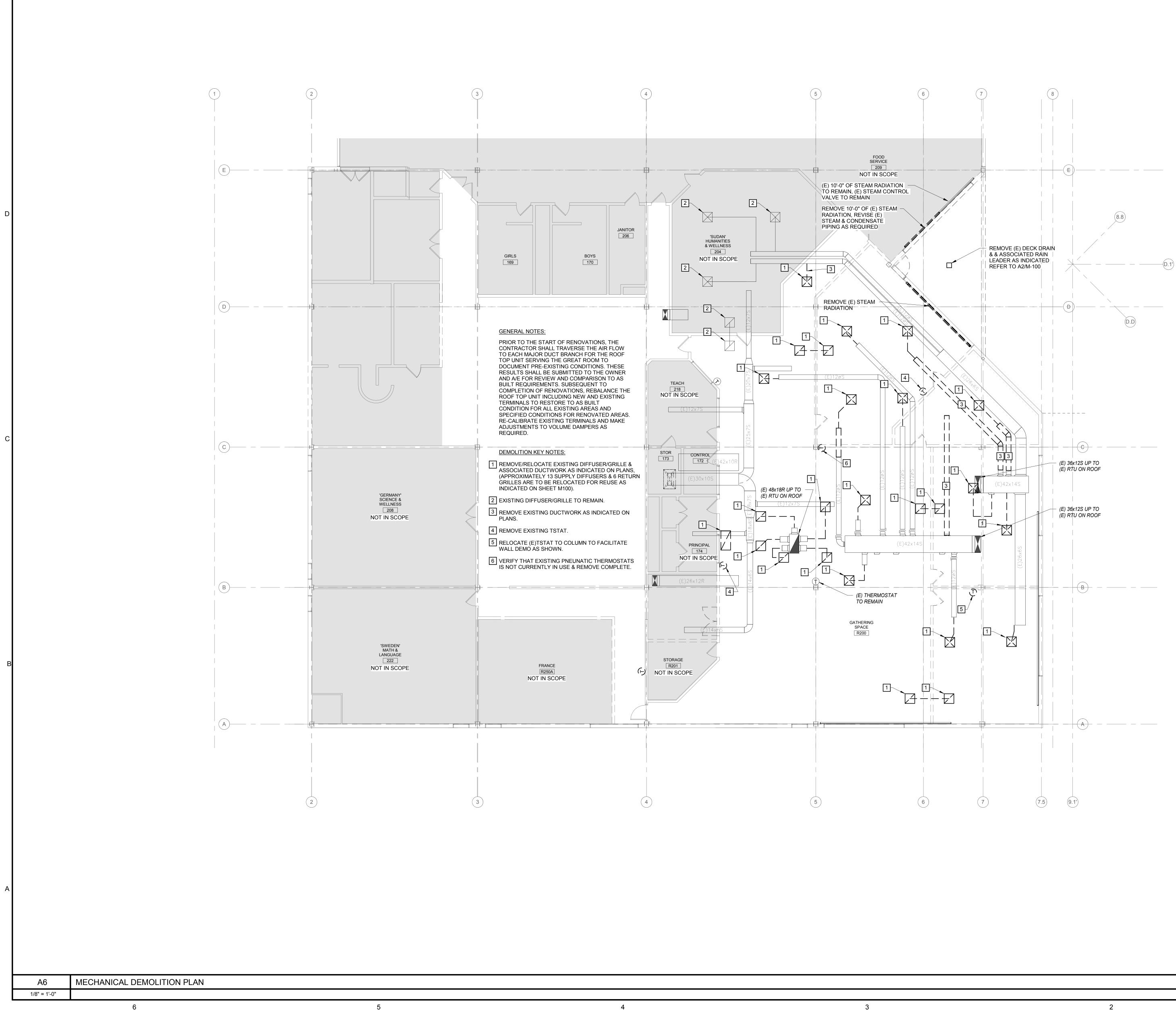
ΤE	AAV AC ACC	AUTOMATIC AIR VENT ABOVE CEILING	CU	COPPER; CONDENSING UNIT	FM	FORCE MAIN	NIC	NOT IN CONTRACT	TTS	TIGHT TO STEEL
ΤE		ABOVE CEILING			1 101		NIC			
TE	ACC	-	CUH	CABINET UNIT HEATER	GC	GENERAL CONTRACTOR	NPT	NATIONAL PIPE THREAD	TV	TURNING VANE
ΤΕ		AIR COOLED CONDENSER	C.V.	CONTROL VALVE	GPM	GALLONS PER MINUTE	NTS	NOT TO SCALE	TW	TEMPERED WATER
	ACU	AIR CONDITIONING UNIT	CW	COLD WATER; CLOCKWISE	GRV	GRAVITY ROOF VENTILATOR	OBD OA	OPPOSED BLADE DAMPER OUTSIDE AIR	TYP	TYPICAL
	ADA	AMERICANS WITH DISABILITIES ACT	DB	DRY BULB TEMPERATURE	Н	HUMIDIFIER	OD		UH	UNIT HEATER
	AD	ACCESS DOOR	DC	DOUBLE CONTAINED	<u>HB</u>	HOSE BIBB	OED	OPEN ENDED DUCT	UIC	UP IN CHASE
NSATE	AE	ACID EXHAUST	DDC	DIRECT DIGITAL CONTROL	HC; HDC	HANDICAP ACCESS	P-#	PLUMBING FIXTURE TAG	UIW	UP IN WALL
	AW	ACID WASTE	DET	DETAIL	HGT; HT	HEIGHT	PD	PUMPED DISCHARGE	UV	UNIT VENTILATOR
	AFF; A.F.F.	ABOVE FINISHED FLOOR	DIA	DIAMETER	HP	HEAT PUMP	PP	PROCESS PIPING	V	VENT
	AHU	AIR HANDLING UNIT	DIC	DOWN IN CHASE	HRU	HEAT RECOVERY UNIT	PRS	PRESSURE REDUCING STATION	VAC	VACUUM
	AP	ACCESS PANEL	DIW	DOWN IN WALL DOWN	HTR	HEATER	PRV	PRESSURE REDUCING VALVE	VB	VACUUM BREAKER
	APPROX.	APPROXIMATE; APPROXIMATELY	DN DS	DOWNSPOUT	H&V	HEATING AND VENTILATION	R	RETURN AIR	VCFF	VALVE & CAP FOR FUTURE
	APMR	AS PER MFR'S RECOMMENDATIONS			HVAC	HEATING, VENTILATING AND AIR COND.	RD	ROOF DRAIN	VD	VOLUME DAMPER - MANUA
	ATC	AUTOMATIC TEMPERATURE CONTROL	DT		HW	HOT WATER	REC	RECOMMENDATION	VLV	VALVE
	AV	AIR VENT	DV		HWR	HOT WATER RETURN	REG	REGULAR	VS	VENT STACK
URN	BC	BALANCING COCK	DWG	DRAWING	HWS	HOT WATER SUPPLY	RF	RETURN FAN	VTR	VENT TO ROOF
PLY	BDD	BACKDRAFT DAMPER	E	EXHAUST AIR	HX	HEAT EXCHANGER	RG	RETURN GRILLE	W	WASTE
	BG	BLAST GATE	EF	EXHAUST FAN	ID	INSIDE DIAMETER	RHC	REHEAT COIL	W/	WITH
	BF	BARRIER FREE	EG	EXHAUST GRILLE	IN WG	INCHES WATER GAUGE	RM	ROOM	WB	WET BULB TEMPERATURE
	BFP	BACKFLOW PREVENTER	ELEV	ELEVATION	INCL.		RPZ	REDUCED PRESSURE BFP	WCO	WALL CLEANOUT
	BHP	BRAKE HORSEPOWER	ELONG	ELONGATE	INV. EL.		RR	RETURN REGISTER	WH	WATER HEATER
R	BLDG	BUILDING	ENC	ENCLOSURE	IPS	IRON PIPE SIZE KITCHEN EQUIPMENT NUMBER	RV	RELIEF VALVE	WHYD	WALL HYDRANT
E	BOD	BOTTOM OF DUCT	ER	EXHAUST REGISTER	<u>KE-#</u> LD	LINEAR DIFFUSER	RW	RAIN WATER	Ø	DIAMETER
	B.T.U.; BTU	BRITISH THERMAL UNIT	ERU	ENERGY RECOVERY UNIT		SCIENCE LAB EQUIPMENT NUMBER	S	SUPPLY AIR	@	AT
	CONV.	CONVECTOR	ESP	EXTERNAL STATIC PRESSURE	<u>LE-#</u>		SA-" "	SHOCK ABSORBER OF PDI SIZE	&	AND
	CCW	COUNTER CLOCKWISE	ET	EXPANSION TANK	LP	LIQUID PETROLEUM GAS		(" ") AS INDICATED	%	PERCENT
R	CFF	CAPPED FOR FUTURE	(E)	EXISTING	LPR	LOW PRESSURE STEAM RETURN	SCV	SELF-CONTAINED VALVE		
DE	CFM	CUBIC FEET PER MINUTE	F&T	FLOAT AND THERMOSTATIC	LPS	LOW PRESSURE STEAM SUPPLY	SD	SMOKE DAMPER		
	CLG	CEILING	FBO	FURNISHED BY OTHERS	MAX	MAXIMUM	SF	SUPPLY FAN		
	<u>CO</u>	CLEANOUT	FBP	FACE AND BYPASS	MBH	1000 BTUH/hr.	SG	SUPPLY GRILLE		
E FLOOR	СМ	CONSTRUCTION MANAGER	FC	FLEXIBLE CONNECTION	MFR	MANUFACTURER	SGL	SINGLE		
W GRADE	CNTR	COUNTER; COUNTER TOP	<u>FCO</u>	FLOOR CLEANOUT	MIN	MINIMUM	SHT	SHEET		
	CONN	CONNECT; CONNECTION	<u>FD-#</u>	FLOOR DRAIN TAG	MOD	MOTOR OPERATED DAMPER	SPLR	SPRINKLER		<u>NOTE</u>
	CONT.	CONTINUE; CONTINUATION	FD	FIRE DAMPER	MPG	MEDIUM PRESSURE GAS	SQ. FT; SF	SQUARE FEET		NOTES, SYNMBOL LEGENDS ARE TO BE CONSIDERED AS
	COORD.	COORDINATE	FDC	FIRE DEPT. CONNECTION	MPV	MULTI-PURPOSE VALVE	SR S/O	SUPPLY REGISTER SHUT-OFF	APPLICABLE <sup>-</sup>	TO ALL PLUMBING AND HVAC DR THIS PROJECT. SYMBOLS
VE FLOOR	CORR	CORRIDOR	FIN	FINISH	MTD	MOUNTED	S.S.	STAINLESS STEEL	AND ABBRE	VIATIONS SHOWN ON THIS
OW GRADE	CR	CHEMICAL RESISTING	FL; FLR	FLOOR	MTG	MOUNTING	TD	TRENCH DRAIN		OR REFERENCE ONLY AND DO THEIR INCORPORATION INTO
E FLOOR	СТ	COOLING TOWER	FP	FROST/FREEZE PROOF	MUA	MAKE UP AIR	TG	TRANSFER GRILLE		THE DESIGN.
W GRADE	CTE	CONNECT TO EXISTING	FTG	FOOTING	N.C.	NORMALLY CLOSED				
	CTR	CENTER	FTR	FINNED TUBE RADIATION	N.O.	NORMALLY OPEN	TOD			
	CTRLN	CENTERLINE	FS	FLOW SWITCH	NG	NATURAL GAS	<u>IP</u>	TRAP PRIMER TOTAL STATIC PRESSURE		

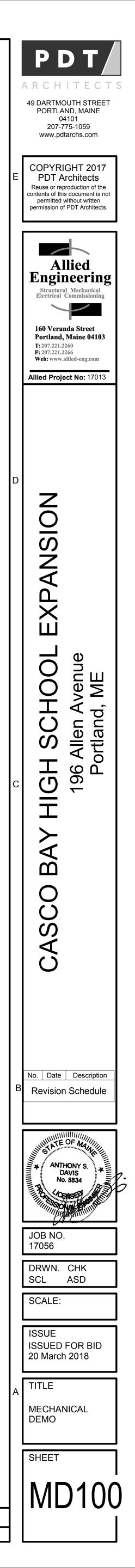
A5	ABBREVIATIONS
NONE	
4	3

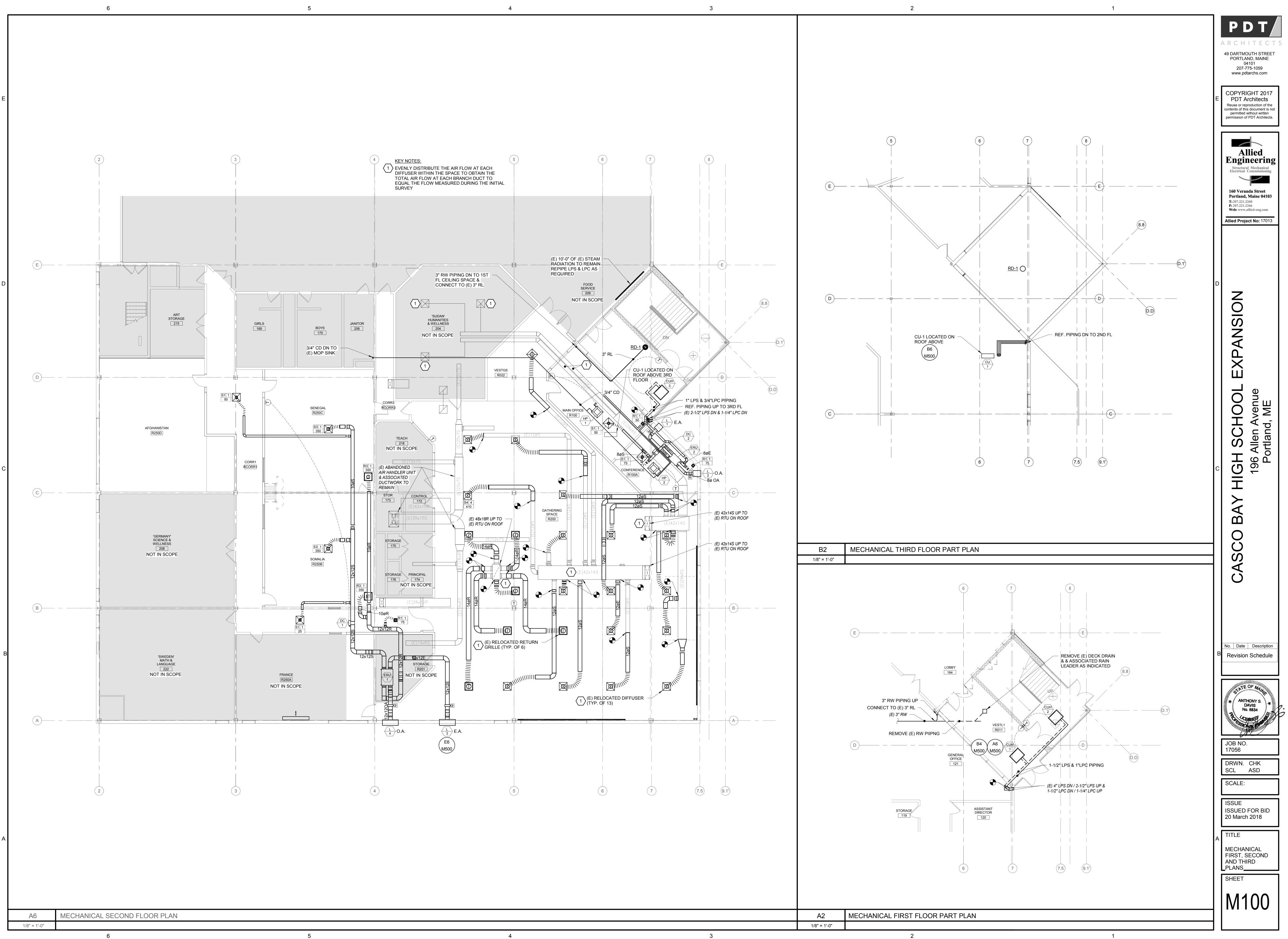
S1 1	REGISTER, GRILLE & DIFFUSER TAG - DIFFUSER, REGISTER OR GRILLE No. - QUANTITY - CFM AIR FLOW
FT-1- 8'-0"- 2.1-	FINTUBE TAG FINTUBE No. LENGTH GPM
VAV-1	VAV TAG - VAV No. - MINIMUM CFM - MAXIMUM CFM - GPM
AHU 1	EQUIPMENT TAG - TYPE DESIGNATOR - NUMBER
	EQUIPMENT TAG (ON FLOOR/ROOF ABOVE) - TYPE DESIGNATOR - NUMBER
A1	DETAIL REFERENCE SYMBOL - DETAIL No. - SHEET DETAIL LOCATED ON
A1 MH-500	SECTION REFERENCE SYMBOL - SECTION No. - SHEET SECTION LOCATED ON

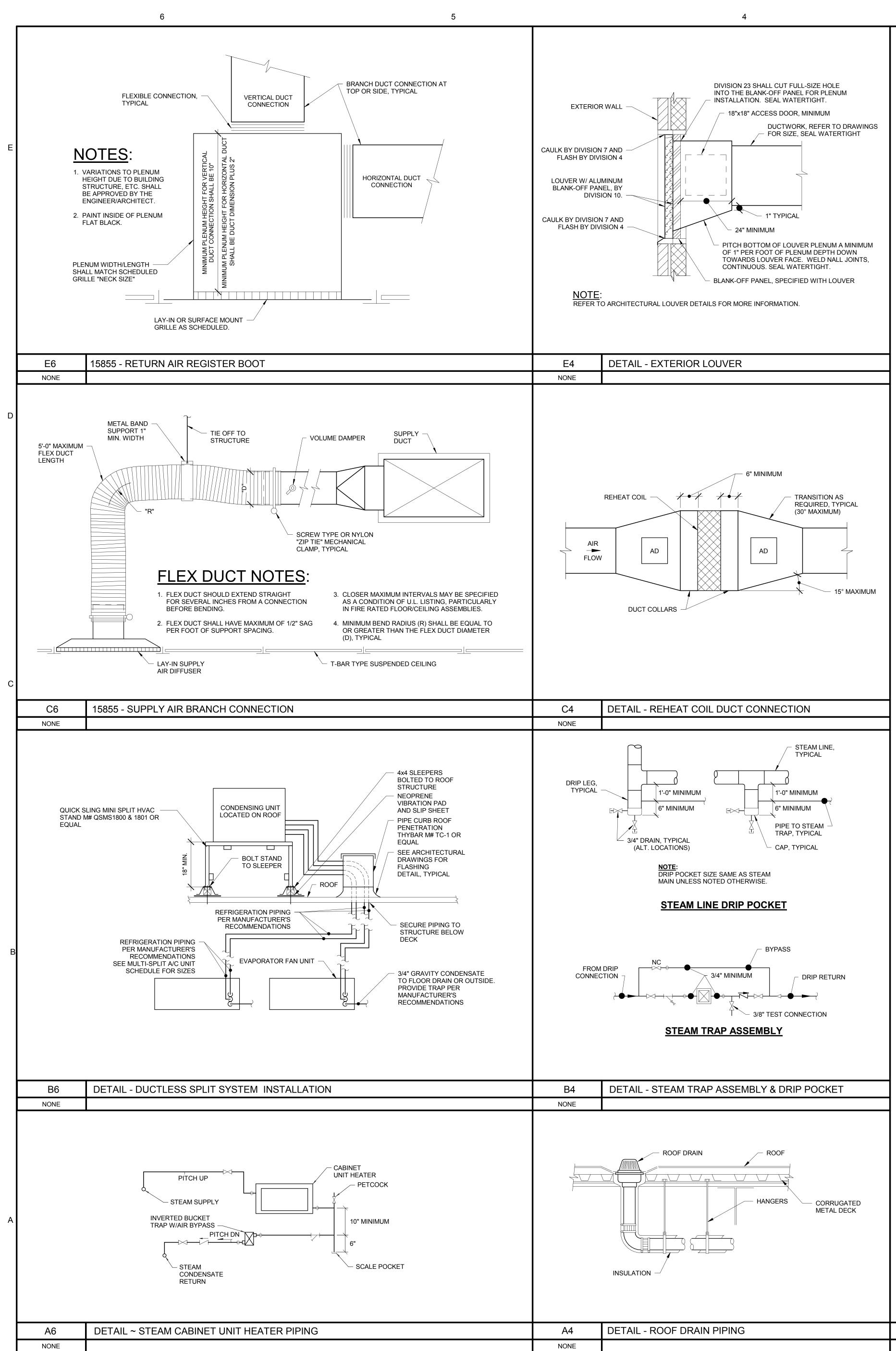
2











				UNIT HE	ATER	SCHE	EDULE								
TAG	SERVES	MFRMODEL	SIZE	TYPE	MBH	CFM	EAT (DEGF)	LAT (DEGF)	LB/HR	FLUID	STEAM PRESSURE	MOTOR TYPE	Motor HP	ELECT	CON VA
CUH-1	VESTL1 R011 1ST FL	TRANE FF- E-B	80	HORIZ RECESSED	33.1	702	70	113.0	34.1	STEAM	2 PSIG	ECM	135 W	120-1-60	2-V
CUH-2	STAIR1	TRANE FF- N-B	30	HORIZ RECESSED	12.5	277	70	112.0	12.9	STEAM	2 PSIG	ECM	70 W	120-1-60	2-V
CUH-3	VESTL1 R211 2ND FL	TRANE FF- N-B	30	HORIZ RECESSED	12.5	277	70	112.0	12.9	STEAM	2 PSIG	ECM	70 W	120-1-60	2-W
NOTES							ar -					a			

NOTES 1. POWER WIRING TO UNIT HEATER BY DIV 26. ALL LOW VOLTAGE CONTROL WIRING, THERMOSTAT, RELAYS, AND TRANFORMERS BY DIV. 23. DISCONNECT SWITCH: PROVIDE BY UNIT HEATER MANUFACT

GENERAL	TAG	ERU-1	ERU-2
OENEIVIE	SERVES	R250C & R250B CLASS ROOMS	MAIN OFFICE R100
	TYPE	FIXED-PLATE	FIXED-PLATE
	MFR	RenewAire	RenewAire
	MODEL	HE1XINH EC	EV200
FILTER SECTION	FILTERS	2" MERV-13	2" MERV-8
OUTSIDE AIR FAN	TYPE	FC	FC
	AIRFLOW, cfm	775	125
	ESP, in.wc.	0.9"	0.70"
	HP	0.5	0.1
EXHAUST AIR FAN	TYPE	FC	FC
	AIRFLOW, cfm	775	125
	ESP, in.wc.	0.65"	0.70"
	HP	0.75	SHARED MOTOR
OVERALL DIMENSIONS	LENGTH	54.75"	33.5"
	WIDTH	23.75"	24"
	HEIGHT	35.75"	20"
	OPERATING WEIGHT, lbs.	275	68
HEAT RECOVERY CORE	SUMMER OA DB/WB	87 / 72	87 / 72
	WINTER OA DB	0	0
	SUMMER SA DB/WB	78.5 / 72.9	78.5 / 72.9
	WINTER SA DB	52.8	52.8
	TEMP EFF.	72.0%	81.0%
	SUMMER EFF.	55.0%	77.0%
	WINTER EFF.	66.0%	64.0%
	FROST CONTROL	NONE REQUIRED	NONE REQUIRED
ELECTRICAL DATA	V-PH-HZ	208/1/60	120/1/60
	DISC SWITCH	WITH UNIT	-
	STARTER		2
	UNIT FLA	4.8	1.5
	S & R SMOKE DETECTORS	NO	NO
NOTES		1,2	

	TEMF	EFF.			72.0%		81.0%	IVILLS				2	IVIXZ-2020NAHZ			
	SUMM	IER EFF.			55.0%		77.0%	BRA	NCH SELECT	OR BOX (BS	B) MODEL	•)				
	WINT	ER EFF.			66.0%		64.0%	COC	OLING BTUH	30-	- 90		18	3,000		
	FROS	T CONTROL	(	NON	E REQUIRED				TING BTUH				22,000			
ECTRICA	AL DATA V-PH-	HZ	13 14		208/1/60		120/1/60		RIGERANT					410A		
		SWITCH		١	VITH UNIT		-		CTRICAL			30/1/60				
	STAR	Salar and S			3 <u>11</u> 85		2	- MCA					101204-220204-2202	8.9		
	UNIT				4.8		1.5	- MOF					2	.0.9		
		SMOKE DE	TECTORS		NO		NO		JND dBA - HIGI	2			50			
	NOTES				1,2									dB(A)	8	
otes:									ENSIONS (H x	VV X D)		5		7-13/32" x 13"	å	
Provide	ECM motor as specif								IGHT, LBS. TES:				1	187		
	factory isolation damp	or at orver						2						D DV DB/00		
	e factory isolation damp									J'S BY DIV 26	WIRING	BETWEEN AC AND	CUPROVIDE	D BY DIV 23.		
	e factory isolation damp							R SCHEDUL		J'S BY DIV 26	WIRING	BETWEEN AC AND	CUPROVIDE	D BY DIV 23.		
	e factory isolation damp									J'S BY DIV 26	WIRING					
	MAKE - MODEL	AIR SYSTEM		CFM	Height (In.)	WIDTH (IN.)		R SCHEDUL		/S BY DIV 26 % FREE AREA	BLADE	BETWEEN AC AND BEGINNING POINT OF WATER PENETRATION AT 0.01 OZ./SF	MAX P.D. MAX W.C.	SCREEN		
Provide		AIR SYSTEM		CFM 125	HEIGHT (IN.) 12	WIDTH (IN.) 18	MIN. FREE	R SCHEDUL DIMENSIONS GROSS VELOCITY	E NET VELOCITY	% FREE	BLADE	BEGINNING POINT OF WATER PENETRATION AT	MAX P.D.		NOTES	
Provide TAG	MAKE - MODEL	AIR SYSTEM ERU-2	DUTY	subseter. Seddhars			MIN. FREE AREA (SF)	R SCHEDUL DIMENSIONS GROSS VELOCITY (FT/MIN)	E NET VELOCITY (FT/MIN)	% FREE AREA	BLADE DEPTH	BEGINNING POINT OF WATER PENETRATION AT 0.01 OZ./SF	MAX P.D. MAX W.C.	SCREEN	NOTES	
TAG L-1	MAKE - MODEL RUSKIN ELF445DX	AIR SYSTEM ERU-2 ERU-2	DUTY	125	12	18	MIN. FREE AREA (SF) 0.63	R SCHEDUL DIMENSIONS GROSS VELOCITY (FT/MIN) 83.3	E NET VELOCITY (FT/MIN) 198.4	% FREE AREA 42.0%	BLADE DEPTH 4"	BEGINNING POINT OF WATER PENETRATION AT 0.01 OZ./SF 873 FPM	MAX P.D. MAX W.C. 0.06	SCREEN SEE SPEC	NOTES	
TAG L-1 L-2	MAKE - MODEL RUSKIN ELF445DX RUSKIN ELF445DX	AIR SYSTEM ERU-2 ERU-2 ERU-1	DUTY EXHAUST INTAKE	125 125	12 12	18 18	MIN. FREE AREA (SF) 0.63 0.63	R SCHEDUL DIMENSIONS GROSS VELOCITY (FT/MIN) 83.3 83.3	E NET VELOCITY (FT/MIN) 198.4 198.4	% FREE AREA 42.0% 42.0%	BLADE DEPTH 4" 4"	BEGINNING POINT OF WATER PENETRATION AT 0.01 OZ./SF 873 FPM 873 FPM	MAX P.D. MAX W.C. 0.06 0.06	SCREEN SEE SPEC SEE SPEC	NOTES	

TAG	PRICE MODEL	TYPE	NECK SIZE	FACE SIZE	CFM RANGE	MAX TOTAL P.D. (IN.W.C.)	MAX NC LEVEL	BORDER TYPE	BLOW	NOTES
S-1	SCD	SQ. CEILING SUPPLY DIFFUSER	6" DIA	24" X 24"	0-150	0.07"	16	LAY-IN	4-WAY	
S-2	SCD	SQ. CEILING SUPPLY DIFFUSER	8" DIA	24" X 24"	151-275	0.07"	19	LAY-IN	4-WAY	
S-3	SCD	SQ. CEILING SUPPLY DIFFUSER	10" DIA	24" X 24"	276-440	0.07"	22	LAY-IN	4-WAY	
S-4	SCD	SQ. CEILING SUPPLY DIFFUSER	12" DIA	24" X 24"	441-630	0.07"	24	LAY-IN	4-WAY	
R-1	530	STEEL RETURN GRILLE, 3/4" SPACING, 45 DEG VANES	8" X 8"	8" X 8"	0-170	0.05"	23	SURFACE MT.		
R-2	530	STEEL RETURN GRILLE, 3/4" SPACING, 45 DEG VANES	12" X 12"	12" X 12"	171-440	0.05"	27	SURFACE MT.		
R-3	530	STEEL RETURN GRILLE, 3/4" SPACING, 45 DEG VANES	22" X 22"	22" X 22"	440-940	0.03"	27	LAY-IN		

		EL	ECTRIC I	рист ні	EATING	COILS	CHED	ULE					
TAG	MANUFACTURER - MODEL	SERVES	AIRFLO W	LENGTH	HEIGHT	FACE VEL	EDB	LDB	MAX APD	BTUH	KW	AMPS	VOLT / PH
DC-1	INDEECO	ERU-1	775	14	14	569	40	75	0.2"	29,295	8.6	10.3	480/3
DC-2	INDEECO	ERU-2	125	10	6	300	40	75	0.2"	4,725	1.4	1.8	208/3
NOTES:													
1. Provide	SCR Heating Control												
2. Provide	e disconnect switch.												
3. Access	sories: Airflow switch, duct the	ermostat, magneti	c contactor,	and pilot lig	ht.								
4. Coordia	anate control box location - LH	l or RH for proper	maintenance	access.									
	e duct mounted thermostat												
5. Provide	e duct mounted thermostat											-	

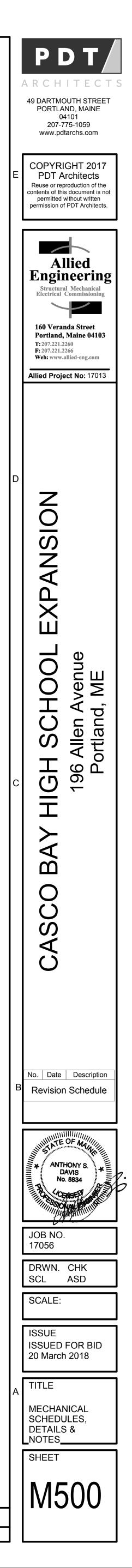
MECHANICAL SCHEDULES

A3

NONE

MULTI - SPLIT A/C UNIT SCHEDULE							
INDOOR UNITS	HP-1	HP-2					
ARRANGEMENT	CEILING CASSETTE	CEILING CASSETTE					
COOLING BTUH	9,000	9,000					
HEATING BTUH @ 47F	10,450	10,450					
HEATING BTUH @ -5F	9,000	9,000					
MITSUBISHI MODEL NO.	SLZ-KA12NA	SLZ-KA12NA					
DIMENSIONS - H X W X D	9-1/4" x 22-7/16" x 22-7/16"	9-1/4" x 22-7/16" x 22-7/1					
WEIGHT, LBS.	36	36					
CFM	290	290					
EXT S.P., IN. WC	0.21"	0.21"					
SOUND dBA - HIGH CFM	34 dB(A)	34 dB(A)					
ELECTRICAL	208/230-1	208/230-1					
ELECTRICAL, MCA	1A	1A					
COND. DRAIN SIZE	3/4"	3/4"					
LIQUID LINE SIZE	1/4"	1/4"					
GAS LINE SIZE	3/8"	3/8"					
OUTDOOR COND. UNIT:	C	U-1					
MITSUBISHI COND UNIT MODEL NO.	MXZ-20	20NAHZ					
BRANCH SELECTOR BOX (BSB) MODEL							
COOLING BTUH	18	,000					
HEATING BTUH	22	,000					
REFRIGERANT	R4	10A					
ELECTRICAL	208-2	30/1/60					
MCA	2	8.9					
MOP		-					
SOUND dBA - HIGH	580	IB(A)					
DIMENSIONS (H x W x D)	41-9/32" x3	7-13/32" x 13"					
WEIGHT, LBS.	1	87					
NOTES:							

ONTROL /ALVE 2-WAY	NOTE
2-WAY 2-WAY 2-WAY	1 1 1
TURER	- 
SETTE	
)	
2NA x 22-7/1	6"
4) -1	



					SINGLE GANG BOX	DOUBLE GANG BOX	FLUSH COVERPLATE UNDERFLOOR BOX	8 WIRE, 8 POSITION VOICE OUTLET	8 WIRE, 8 POSITION DATA OUTLET	RJ-45 WITH SS WALL PHONE PLATE	TYPE F OUTLET	DUPLEX RECEPTACLE (IN FLOOR BOX)	4-PAIR UTP CABLING - CATEGORY 6, UNO	
SYMBOL	MTG HT AFF UNO	DESCRIPTION	KEY NOTE	CONDUIT SIZE	ВС	OX TY	PE	Ουτ	OUTLET TYPE ~ SEE		SEE	EE NOTE CABLI		
$\mathbf{\nabla}$	18"	(1) VOICE AND (2) DATA OUTLETS		3/4"	Х			1	2				3	
$\bigtriangledown$	18"	(2) DATA OUTLETS		3/4"	X				2				2	
▼	45"	WALL PHONE OUTLET		3/4"						1			1	
WA	ABOVE CEILING	DATA OUTLET FOR WIRELESS ACCESS POINT			Х				1				1	
F		UNDERFLOOR BOX WITH (1) VOICE AND (4) DATA OUTLETS AND (4) DUPLEX RECEPTACLES	2				х	1	4			4	5	

1. MOUNTING HEIGHT AS NOTED ON PLANS. 2. NOT USED

6

3. CABLING, OUTLETS AND TERMINATIONS SHALL BE PROVIDED BY OWNER AND ARE SHOWN FOR INFORMATION ONLY.

A4	ABBREVIATIONS		A3		RECEPTACLES
		LOCATION (RL) REMOVE AND RELOCATE			
		OF PROPERLY (ER) RELOCATED ITEM AT NEW			
		(R) REMOVE ITEM AND DISPOSE			
		(E) EXISTING ITEM TO REMAIN			
MECH MECHAI					
	CUIT BREAKER	XFMR TRANSFORMER			
	Л	WSH WASHER			
LTS LIGHTS		WG WIREGUARD			
		WP WEATHERPROOF			
LED LIGHT EM		W WATT			
	CONTROL PANEL	VFD VARIABLE FREQUENCY DRIVE	2.		2 2
LC LOADCENT		V VOLTS	2.		JNT EXTERIOR RECEPTACLES WITH CENTERLINE 18 AFF 0NO
LE LIGHTING C		SUPPLY	1.		JNT RECEPTACLES WITH CENTERLINE 18" AFF UNO
LAN LOCAL AR		UNO UNLESS NOTED OTHERWISE		TES:	
KVA KILO VOL	T-AMPS REA NETWORK	LABORATORY UNO UNLESS NOTED OTHERWISE			DEDICATED 20A, 1P, 120V CIRCUIT.
KW KILOWATT		UL UNDERWRITER'S			LOCATION PROVIDE (2) 20A, 125V, 2P, 3W, NEMA 5- RECEPTACLES. WIRE AND CONNECT EACH RECEPT
KCMIL KILO CI		UH UNIT HEATER		LC –	
K KILO		UG UNDERGROUND			PROVIDE NEMA 5-20 RECEPTACLES AND TECHNOI AS SHOWN ON PLAN
IR INFRARED		UF UNDER FLOOR	$\bigcirc \bigtriangledown$	$\bigcirc$	SURFACE RACEWAY WITH DIVIDER, MOUNT 44" AF
	DIATE METAL CONDUIT	TYP TYPICAL		$\downarrow$	MOUNTED VERTICALLY IN CABINET. REFER TO AR PLANS.
IG ISOLATED O		TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR		$\oplus$	MULTI-OUTLET STRIP, (8) SINGLE 5-20R SINGLE RE
IDS INTRUSION	N DETECTION SYSTEM	TEL TELEPHONE	WP		GFCI RECEPTACLE IN WP ENCLOSURE ON ROOF
	LING UNIT	SQ SQUARE	WP	Ш	GFCI RECEPTACLE WITH WEATHERPROOF COVER
	G, VENTILATION AND	THROW	EWC	Ф	GFCI RECEPTACLE FOR ELECTRIC WATER COOLE COORDINATE LOCATION WITH DIVISION 22.
HP HORSEPON	-	SF SUPPLY FAN	=	#	GFCI DOUBLE DUPLEX RECEPTACLE, MOUNT 46" A
HOA HAND-OF	F-AUTO SELECTOR	REF REFRIGERATOR		Ф	GFCI DUPLEX RECEPTACLE, MOUNT 46" AFF UNO
HID HIGH INTE	ENSITY DISCHARGE			Ф	DUPLEX RECEPTACLE, HATCH INDICATES AFCI PR
GFP GROUND	FAULT PROTECTION			¢	DOUBLE DUPLEX RECEPTACLE
	) FAULT CIRCUIT RRUPTER			φ	DUPLEX RECEPTACLE ~ 20A, 125V, 2P, 3W, NEMA &
G, GND GROU		RGS RIGID GALVANIZED STEEL			RECEPTACLES
FWE FURNISH	IED WITH EQUIPMENT	RF RETURN FAN			
FLA FULL LOAI	D AMPS	REF REFRIGERATOR			
FB FLOOR BO	x	RECEPT		UVE	RHEAD RETRACTABLE CORD REEL, GFCI
FACP FIRE AL/	ARM CONTROL PANEL	REC RECEPTACLE			
EWC ELECTRI	C WATER COOLER	PVC POLY-VINYL CHLORIDE			RHEAD RETRACTABLE CORD REEL, DOUBLE DUPLE
ERU ENERGY	RECOVERY UNIT	PV PHOTOVOLTAIC			RHEAD RECEPTACLE DROP, DOUBLE DUPLEX
EP EXPLOSION	N PROOF	P/O PART OF			RHEAD RECEPTACLE DROP, DOUBLE DUPLEX
EMT ELECTRIC	CAL METALLIC TUBING	PNL PANELBOARD	$(\oplus)$		RHEAD RECEPTACLE DROP, DUPLEX
ELEV ELEVATO	OR	PIR PASSIVE INFRARED	C #	DOU CEIL	JBLE DUPLEX GFCI RECEPTACLE, FLUSH MOUNTED
EF EXHAUST F	FAN	PH, PHASE	СШ	DUP	LEX GFCI RECEPTACLE, FLUSH MOUNTED IN CEILIN
DWG DRAWING	G	PA PUBLIC ADDRESS PB PULLBOX	C ⊕	DOU	IBLE DUPLEX RECEPTACLE, FLUSH MOUNTED IN CE

5

A AMPERE

AC ALTERNATING CURRENT

AFF ABOVE FINISHED FLOOR

AFG ABOVE FINISHED GRADE

AIC AMPERES INTERRUPTING

AWG AMERICAN WIRE GAUGE

BAS BUILDING AUTOMATION

SYSTEM

CAT CATALOG, CATEGORY

CCTV CLOSED CIRCUIT TELEVISION

BKBD BACKBOARD

C CONDUIT

CATV CABLE TV

CB CIRCUIT BREAKER

CM CIRCULAR MILS

CU COPPER

DN DOWN

COMM COMMUNICATIONS

CU MECH CONDENSING UNIT

CUH CABINET UNIT HEATER

DDC DIGITAL DIRECT CONTROL

DC DIRECT CURRENT

ATS AUTOMATIC TRANSFER SWITCH

AHU AIR HANDLING UNIT

CAPACITY

MC MICROPHONE

MW MICROWAVE

MT MOUNT

MLO MAIN LUG ONLY

MH METAL HALIDE

NC NORMALLY CLOSED

MIN MINIMUM

N NEUTRAL

MTS MANUAL TRANSFER SWITCH

MCP MOTOR CONTROL PANEL

MDP MAIN DISTRIBUTION PANEL

NEC NATIONAL ELECTRICAL CODE

MANUFACTURERS

NFPA NATIONAL FIRE PROTECTION

NEMA NATIONAL ELECTRICAL

ASSOCIATION

ASSOCIATION

NIC NOT IN CONTRACT

NF NON-FUSED

NO., # NUMBER

NO NORMALLY OPEN

NTS NOT TO SCALE

OC ON CENTER

OH OVERHEAD

P POLE

OCC OCCUPANCY

		→ ^	OKE DETECTOR, WIRED TO FACP AT DETECTOR, WIRED TO FACP	PROJECT.	EXISTING BOXES THAT BECOME UNUSED AS A RE
		×	CT SMOKE DETECTOR, WIRED TO FACP		IOVALS IMPACT WIRING TO EXISTING ITEMS TO F CONNECTIONS AS REQUIRED TO RE-FEED ITEM
			S DETECTOR, WIRED TO FACP MOTE TEST/INDICATOR FOR DUCT SMOKES, MOUNT ON CEILING	THEY ARE L	ACEWAYS AND BOXES SHALL BE PERMITTED TO OCATED IN THE SAME LOCATION AS AN INDICATI
		BEI	NEATH UNIT, OR WALL MOUNT WHERE INDICATED ON PLANS		YLY WITH PROJECT SPECIFICATIONS FOR NEW W ALE THE DRAWINGS. REFER TO ARCHITECTURAL
		⊳F− HO	RN/STROBE, WALL MOUNTED CANDELA AS NOTED ON PLANS, RED TO FACP	EXISTING CO	ONDITIONS FOR EXACT DIMENSIONS.
		⊳f HO	RN/STROBE, CEILING MOUNTED, CANDELA AS NOTED ON	APPROXIMA	ON OF EQUIPMENT, OUTLETS, ETC. AS GIVEN ON TE. IT SHALL BE UNDERSTOOD THAT THESE LOC MODIFICATION AS MAY BE FOUND NECESSARY
		E– STI	ANS, WIRED TO FACP ROBE ONLY INDICATING APPLIANCE, WALL MOUNTED, CANDELA		F INSTALLATION IN ORDER TO MEET PROJECT RI HALL BE MADE WITHOUT EXTRA CHARGE.
			NOTED ON PLANS, WIRED TO FACP ROBE ONLY INDICATING APPLIANCE, CEILING MOUNTED,		RICAL DEVICES, WHEN INSTALLED, SHALL BE PRO JRING CONSTRUCTION. COVER PLATES SHALL BE
		CA	NDELA AS NOTED ON PLANS, WIRED TO FACP	FINISH MATE	ERIALS HAVE BEEN APPLIED.
			RN/STROBE WITH PULL STATION DIRECTLY BELOW		E ALL WORK WITH OTHER DIVISIONS AND THE O
		~	DOR MOUNTED	10. COORDINAT	E LOCATIONS OF LIGHT FIXTURES AND OTHER E
	SINGLE RECEPTACLES		ALL MOUNTED	E1	GENERAL NOTES
φ	MOUNT 46" AFF U.N.O. 20A, 125V, 2P, 3W, NEMA 5-20R		ANSFORMER OX BOX, MOUNT 60" AFF		
ф	GFCI 20A, 125V, 3W, NEMA 5-20R ~ MOUNT 46" AFF UNO		IOKE DAMPER, WIRED TO FACP	Ŀ	IGHTING SWITCHES
	20A, 125V, 2P, 3W, NEMA L5-20R (TWISTLOCK)		RE AND SMOKE DAMPER, WIRED TO FACP PRN/STROBE, CANDELA AS NOTED ON PLANS, WIRED TO FACP	\$a LI	IGHT SWITCH, 20A,125/277V
	30A, 125/250V, 3P, 4W, GROUNDING, NEMA 14-30R, (3)#10+(1)#10G TO 30A		EAKER/STROBE, WALL MOUNTED, CANDELA AS NOTED ON ANS, WIRED TO FACP		HREE-WAY LIGHT SWITCH
5	30A, 480V, 2P, 3W, NEMA 8-30R, (2)#10+(1)#10G	⊳s sp	EAKER/STROBE, CEILING MOUNTED, CANDELA AS NOTED ON		OUR-WAY LIGHT SWITCH
7	50A, 250V, 3P, 3W, GROUNDING, NEMA 10-50R, (3)#6+(1)#10 50A, 480V, 2P, 3W, NEMA 8-50L, GROUNDING, (3)#6+(1)#8G		ANS, WIRED TO FACP	τ -	CONTROL STATION ~ REFER TO DETAIL G8/E001
8	30A, 125V, 3W, NEMA L5-30R (TWIST LOCK), (2)#10+(1)#10G TO 30A, 1P CIRCUIT BREAKER				EY OPERATED SWITCH
	OVERHEAD RECEPTACLE CORD DROP				IOTOR RATED SWITCH INGLE POLE SWITCH WITH RED PILOT LIGHT ~ RI
	OVERHEAD RECEPTACLE DROP, GFCI 20A, 125V, 2P, 3W, NEMA 5-20R			LI	IGHT SHALL GLOW WHEN CIRCUIT IS ENERGIZED
	<u>NOTE</u> :			\$b LI	IULTI-GANGED SWITCHES, GANG UNDER ONE PL ETTER INDICATES SWITCHING
	PROVIDE MATCHING CORD AND PLUG FOR SINGLE RECEPTACLES FOR NEW EQUIPMENT AND WHERE NOTED FOR	D2	FIRE ALARM		-BUTTON OCCUPANCY SENSOR SWITCH, WALL MOUNTED
	RELOCATED EQUIPMENT				CCUPANCY SENSOR SWITCH WIRED FOR 3-WAY
			PANELBOARD ~ SURFACE MOUNTED		OCCUPANCY SENSOR SWITCH WITH DIMMING ~ C
F	FLOOR AND CEILING DEVICES DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W, NEMA 5-20R,		PANELBOARD ~ FLUSH MOUNTED		OCCUPANCY SENSOR, CEILING MOUNTED
F	MOUNT IN FLUSH FLOOR BOX	AS AF	FUSED DISCONNECT SWITCH		OCCUPANCY SENSOR, WALL MOUNTED
	DOUBLE DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W, NEMA 5- 20R, MOUNT IN FLUSH FLOOR BOX		NON-FUSED DISCONNECT SWITCH		NIMMER SWITCH ~ COORDINATE DIMMING TECHN OAD TO BE DIMMED
P ⊕ P ⊕	DUPLEX RECEPTACLE, PEDESTAL MOUNTED SINGLE RECEPTACLE, PEDESTAL MOUNTED	00 🖂	MOTOR STARTER ~ NUMBER INDICATES NEMA SIZE	φL	ANDICAP SWITCHES FOR HOOD LIGHT AND FAN
<b>C</b>	DUPLEX RECEPTACLE, FLUSH MOUNTED IN CEILING	00 🕅	COMBINATION MOTOR STARTER/FUSED DISCONNECT		IMER SWITCH OW VOLTAGE LIGHT SWITCH, MOMENTARY CONT
C ⊕	DOUBLE DUPLEX RECEPTACLE, FLUSH MOUNTED IN CEILING	M	METER AND CABINET		OW VOLTAGE LIGHT SWITCH CONTROLLING MUL
С 📖	DUPLEX GFCI RECEPTACLE, FLUSH MOUNTED IN CEILING	J	JUNCTION BOX	\$E#ab W	VALL STATION ~ REFER TO DETAIL J10/E001 - LOV
C 🌐	DOUBLE DUPLEX GFCI RECEPTACLE, FLUSH MOUNTED IN CEILING	(J—	JUNCTION BOX ~ WALL MOUNTED		ETTERS INDICATE SWITCHING, MULTIPLE LOWER NDICATE MANUAL CONTROL OF MULTIPLE SWITC
(D) (D)	OVERHEAD RECEPTACLE DROP, DUPLEX OVERHEAD RECEPTACLE DROP, DOUBLE DUPLEX	 C ] ]	DOUBLE GANG JUNCTION BOX ~ WALL MOUNTED 18" AFF JUNCTION BOX ~ FLUSH CEILING MOUNTED		IGHTING TIME CLOCK
	OVERHEAD RECEPTACLE DROP, GFCI	P J	JUNCTION BOX ~ PEDESTAL MOUNTED		IGHTING CONTROL PANEL
	OVERHEAD RETRACTABLE CORD REEL, DOUBLE DUPLEX	<b>T</b> #	TRANSFORMER ~ NUMBER INDICATES DESIGNATION SEE TRANSFORMER SCHEDULE	PC O	OUTDOOR PHOTOELECTRIC SWITCH
	OVERHEAD RETRACTABLE CORD REEL, GFCI	VFD	VARIABLE FREQUENCY DRIVE		AYLIGHT HARVESTING SENSOR
		TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR		IOTES:
		<b>⊢</b> S–	POWER SHUTOFF SWITCH ~ WALL MOUNTED 48" TO CENTER LINE. INTERLOCK TO CONTROL SHUNT TRIP		1. MOUNT LIGHT SWITCHES WITH CENTERLINE 4
	RECEPTACLES		CIRCUIT BREAKER IN PANELBOARD SERVING AREA		2. LOWER CASE LETTER AT SWITCH INDICATES S
	<ul> <li>DUPLEX RECEPTACLE ~ 20A, 125V, 2P, 3W, NEMA 5-20R</li> <li>DOUBLE DUPLEX RECEPTACLE</li> </ul>	•	CONDUIT TURNING UP		EMERGENCY LIGHTING
	<ul> <li>DOUBLE DOI LEX RECEIT INCLE</li> <li>DUPLEX RECEPTACLE, HATCH INDICATES AFCI PROTECTION</li> </ul>		WIRING UNDERGROUND OR UNDERSLAB		HATCHING INDICATES FIXTURE CONNECTED SAFETY EMERGENCY GENERATOR BRANCH L
	GFCI DUPLEX RECEPTACLE, MOUNT 46" AFF UNO		HOMERUN ~ (2)#12+(1)#12G UNO (EXCEPT LIGHTING	÷ EM -	FIXTURES SHALL BE UNSWITCHED AND REMA "EM" INDICATES EMERGENCY WHERE SYMBO
	GFCI DOUBLE DUPLEX RECEPTACLE, MOUNT 46" AFF UNO		CIRCUITS: (1)#12+(1)#10N+(1)#12G UNO) SINGLE-PHASE HOMERUN OR MULTIPLE HOMERUN	BP#	
EWC	COORDINATE LOCATION WITH DIVISION 22.		UTILIZING THE SAME CONDUIT		EMER BATTERY UNIT WITH NO HEADS, MT 7'-6 BP# INDICATES BATTERY UNIT DESIGNATION, UNSWITCHED PORTION OF AREA LIGHTING BI
WP   WP			3-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT		CIRCUIT, U.N.O.
L	MULTI-OUTLET STRIP, (8) SINGLE 5-20R SINGLE RECEPTACLES	$\sim$		C C	EMER BATTERY UNIT WITH INTEGRAL HEADS, BP# INDICATES BATTERY UNIT DESIGNATION, UNSWITCHED PORTION OF AREA LIGHTING BI
$\bigcirc \nabla$	MOUNTED VERTICALLY IN CABINET. REFER TO ARCHITECTURAL PLANS.		GROUNDING SYSTEM MOTORIZED DOOR OPERATOR AND PUSH PADDLE ~	$\forall \land \frown$	CIRCUIT, U.N.O. "C" INDICATES CEILING MOUN
	PROVIDE NEMA 5-20 RECEPTACLES AND TECHNOLOGY OUTLETS	Υ -	FURNISHED BY DIV 08, WIRED BY DIV 26	BP#	SINGLE REMOTE EMERGENCY LIGHT HEAD, M BP# INDICATES BATTERY UNIT CONNECTED T
	AS SHOWN ON PLAN	CB	ENCLOSED CIRCUIT BREAKER	BP#)	DOUBLE REMOTE EMERGENCY LIGHT HEAD, I BP# INDICATES BATTERY UNIT CONNECTED T
	LOCATION PROVIDE (2) 20A, 125V, 2P, 3W, NEMA 5-20R RECEPTACLES. WIRE AND CONNECT EACH RECEPTACLE TO A	(H)-	HAND DRYER, COORDINATE HEIGHT WITH		DOUBLE REMOTE EMERGENCY LIGHT HEAD,
	DEDICATED 20A, 1P, 120V CIRCUIT.		ARCHITECTURAL PLANS		MOUNTED, BP# INDICATES BATTERY UNIT CO EXIT SIGN, CEILING MOUNTED, SHADING INDI
<u>NOT</u>	T <u>ES</u> :		ENCLOSED CONTACTOR		ARROWHEAD INDICATES CHEVRON(S) REQUI TO UNSWITCHED PORTION OF AREA LIGHTING
1.	MOUNT RECEPTACLES WITH CENTERLINE 18" AFF UNO	c ⊠	DATA OUTLET FLUSH IN CEILING		CIRCUIT, U.N.O.
2.	MOUNT EXTERIOR RECEPTACLES WITH CENTERLINE 24" AFG UNO	X	MECHANICAL EQUIPMENT TAG ~ REFER TO SCHEDULES		EXIT SIGN, WALL MOUNTED, SHADING INDICA MOUNT AT 7'-6"AFF OR OVER DOOR, CONNEC UNSWITCHED PORTION OF AREA LIGHTING BI
			FOR POWER AND DATA REQUIREMENTS.	INV	CIRCUIT, U.N.O.
					CENTRAL LIGHTING INVERTER
					REFER TO LUMINAIRE SCHEDULE FOR FIXTURE TYPES
					I UN LIATURE LIFED
					TYPICAL FOR ALL FIXTURE TYPES :
				R1 a	— INDICATES LUMINAIRE TYPE ON SCHEDULE — LOWER CASE LETTER INDICATES SWITCH GF
					INDICATES CIRCUIT NUMBER
				<u>NOTE</u> :	
				DRIVER: CON	ATED ON PLANS, FIXTURES EQUIPPED WITH EMI NECT TO BOTH SWITCHED AND UNSWITCHED PC CCORDANCE WITH EMERGENCY BATTERY DRIVE
A C		A 0		INSTRUCTION	IS.
A3	RECEPTACLES	A2	POWER DISTRIBUTION	A1	LUMINAIRES AND SWITCHES
	3	I	2		1

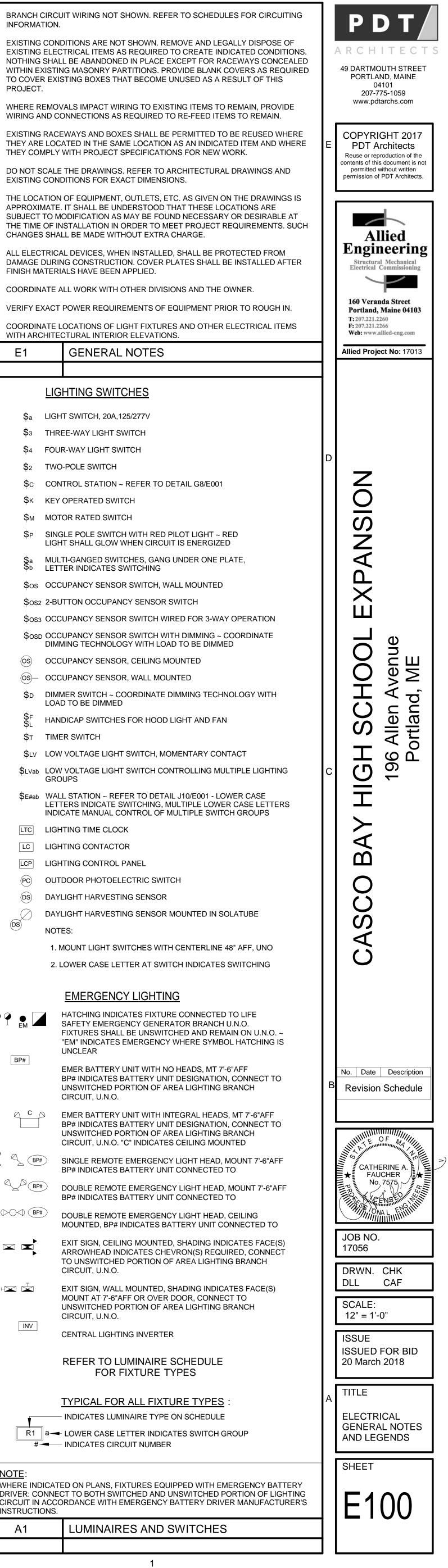
INFORMATION.

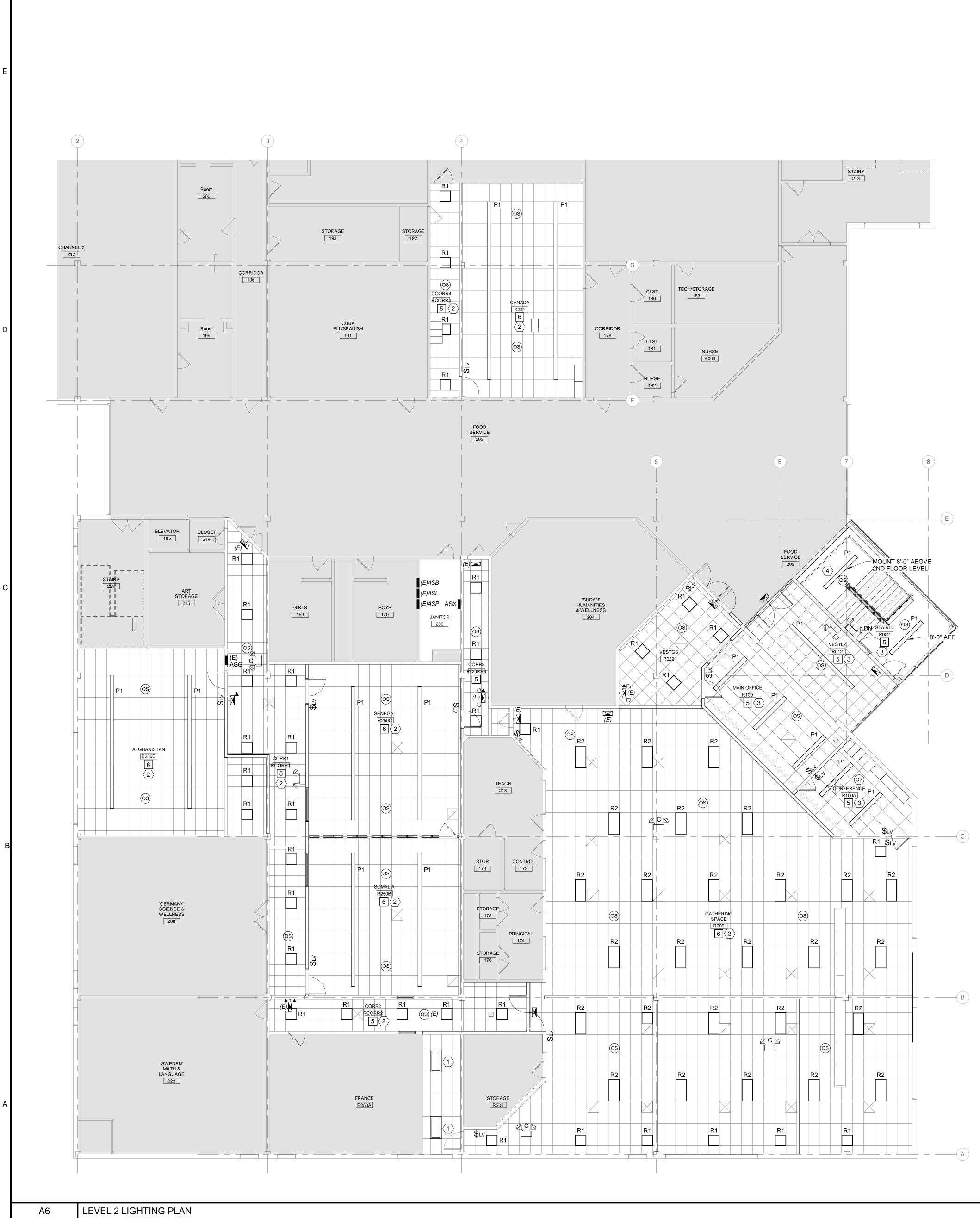
FACP FIRE ALARM CONTROL PANEL, MOUNT WITH TOP OF PANEL NOT

FAA FIRE ALARM ANNUNCIATOR, MOUNT WITH TOP OF PANEL NOT

MORE THAN 72"AFF, WIRED TO FACP

MORE THAN 72"AFF

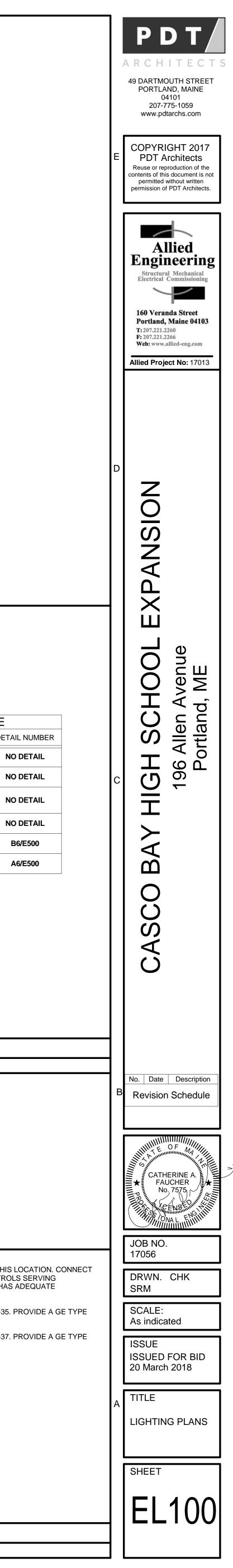




1/8" = 1'-0"

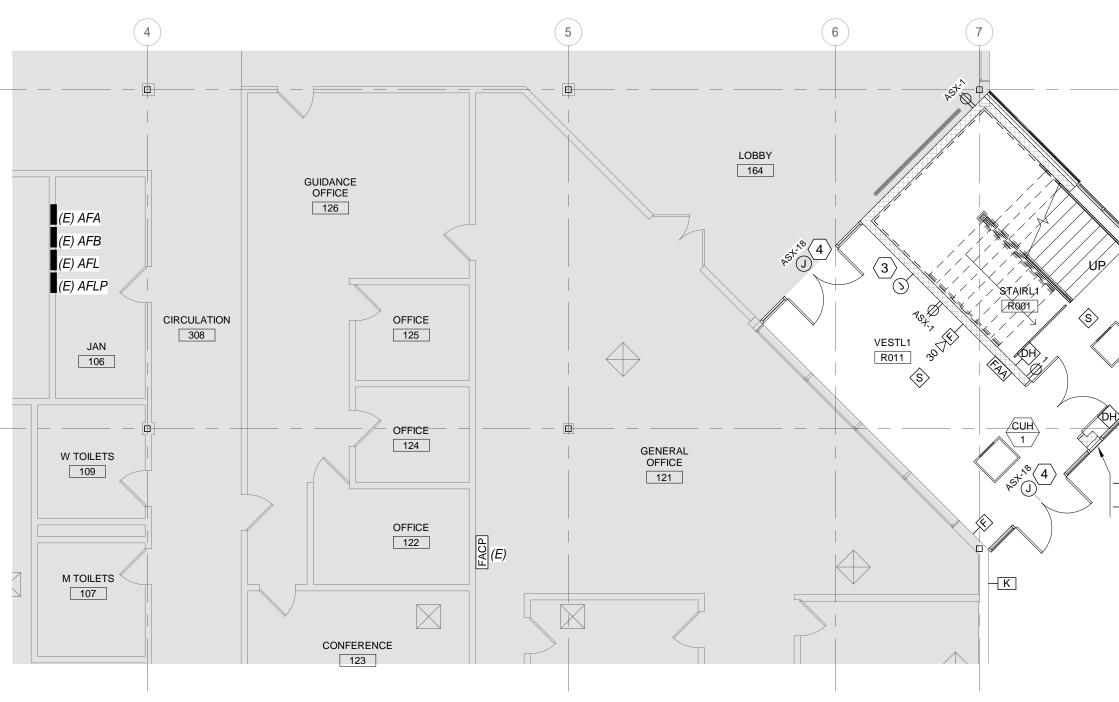
LOBBY       1       WALL SWITCH - MANUAL ON/MANUAL OFF       N         164       1       WALL SWITCH WITH OCCUPANCY SENSOR - MANUAL ON       N         1       WALL SWITCH - MANUAL ON AND OFF; AUTO OFF       N         1       WALL SWITCH - MANUAL ON AND OFF; AUTO OFF VIA       N         1       WALL SWITCH - MANUAL ON AND OFF; AUTO OFF VIA       N         1       WALL SWITCH - MANUAL ON AND OFF; AUTO OFF VIA       N         1       WALL SWITCH - MANUAL ON AND OFF; AUTO OFF VIA       N         1       WALL SWITCH - MANUAL ON AND OFF; AUTO OFF VIA       N         1       WALL SWITCH - MANUAL ON AND OFF; AUTO OFF VIA       N         1       WALL SWITCH - MANUAL ON AND OFF; AUTO OFF VIA       N         1       WALL SWITCH - MANUAL ON AND OFF; AUTO OFF VIA       N         1       WALL SWITCH - MANUAL ON AND OFF; AUTO OFF VIA       N         1       WALL SWITCH - MANUAL ON AND OFF; AUTO OFF VIA       N         1       WALL SWITCH - MANUAL ON AND OFF; AUTO OFF VIA       N         1       WALL SWITCH - MANUAL ON AND OFF; AUTO OFF VIA       N         1       WALL SWITCH - MANUAL ON AND OFF; AUTO OFF VIA       N         1       WALL SWITCH - MANUAL ON AND OFF; AUTO OFF VIA       N					
		COBBY (3) (0) (0) (0) (0) (0) (0) (0) (0	1 2 3 4 5 6	DESCRIPTION OF LIGHTING CONTROL DEVICES AND OPERATION WALL SWITCH - MANUAL ON/MANUAL OFF WALL SWITCH - MANUAL ON AND OFF; AUTO OFF VIA OCCUPANCY SENSORS; DIMMING VIA DAYLIGHT HARVESTING SENSOR FOR FIXTURES INDICATED LIGHTING CONTROLLED BY LCP - REFER TO LIGHTING CONTROL PANEL SCHEDULE AUTO ON/AUTO OFF VIA OCCUPANCY SENSOR(S) WALL SWITCH(ES) - MANUAL ON AND OFF; AUTO OFF VIA OCCUPANCY SENSOR(S)	
1/8" = 1'-0"	B2	LEVEL 1 LIGHTING PLAN	LIG	HTING CONTROL NOTES	
	1/8" = 1'-0"				

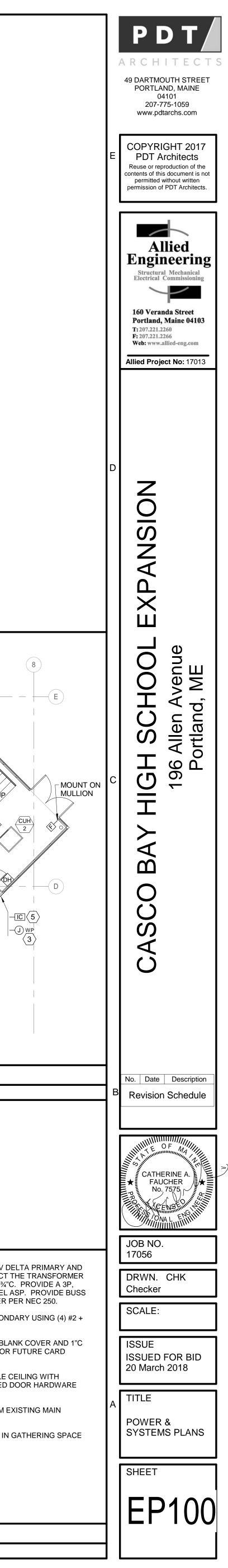
	CLASSROO	G BRANCH CIRCUIT AND LIGHTING CONTRO M. VERIFY THAT THE EXISTING CIRCUIT HAS
	CAPACITY 1	TO SUPPLY THE ADDITIONAL LOAD.
$\langle 2 \rangle$	CONNECT L TED 1P, 20A	LIGHTING IN THIS ROOM TO CIRCUIT ASL-35. A CB.
$\langle 3 \rangle$	CONNECT L TED 1P, 20A	LIGHTING IN THIS ROOM TO CIRCUIT ASL-37. A CB.
$\langle 4 \rangle$	LIGHT FIXT	URE SHALL OPERATE CONTINUOUSLY.
E	Ξ5	KEY NOTES





M TOILETS 109 M TOILETS 107 CONFERENCE 123 OFFICE 121 OFFICE 121 CONFERENCE		
B3 LEVEL 1 POWER AND SYSTEMS PLAN 1/8" = 1'-0"		
	<ul> <li>208Y/120V SE PRIMARY TO 60A GE TYPE CONNECTOF</li> <li>CONNECT PA (1) #8G IN 1-1</li> <li>PROVIDE SIN WITH PULL S READER.</li> <li>PROVIDE JUI INDICATED C POWER SUP</li> <li>RELOCATE E ENTRANCE T</li> <li>REMOVE (13)</li> </ul>	NGLE-GANG BOX MOUNTED 44" AFF WITH BLAN STRING TO ABOVE ACCESSIBLE CEILING FOR F NCTION BOX LOCATED ABOVE ACCESSIBLE CE CIRCUIT CAPPED FOR FUTURE ELECTRIFIED D
	E5	KEY NOTES





6	

F			6			5						4			
					LUMINAIRE SCHE	EDULE							]		
	LEGEN	ID TYPE	DESCRIPTION	MFR	CATALOG SERIES SEE NOTE		MOUNTING	VOLTS	WATTS	LUMENS	TYPE	KEY NOTES			
		R1	2X2 HIGH PERFORMANCE TROF		22CZ-LD5-24 WITH SMOOT			277	19.6	2519	LED ARRAY 3500K LED ARRAY	6	-		
		R2	2X4 HIGH PERFORMANCE TROP		24CZ-LD5-45 WITH SMOOT		PENDANT	277	35.7	4558	LED ARRAY	6	_		
Е			EXTERIOR WALL PACK WITH INT	TECDAL	S920DIP-W-1-		7'-6" AFF UNO WALL	277	18.7 /4FT		3500K LED	7, 9	-		
			PHOTOCELL	SURE-LITES	GWC-AF-SL3	LETTERS AND	12'-0" AFG	277	34 1.04	4188 PER CODE	ARRAY 4000K LED ARRAY	3	-		
			EMERGENCY LIGHTING UNIT	SURE-LITES	WHITE FA		7'-6" UNO	277	0.64	109/ HEAD	LED ARRAY		-		
				ARE NOT COMPLETE CATALOG N						COMPINED			-		
		2	CATALOG SERIES NUMBERS AI COMPLY WITH ADDITIONAL REC	RE USED TO ESTABLISH A LEVEL QUIREMENTS IN SPECIFICATIONS	OF QUALITY AND NOT INTE AND DRAWINGS.	ENDED TO LIMIT CO	OMPETITION. SERIES	NUMBERS A			ALOG NUMBERS	S.	-		
		3 4 5	PROVIDE ENERGY STAR FIXTUR	ENDANT MOUNTING AS INDICATED RE ND MOUNTING HEIGHT PRIOR TO			ND ARROWS AS INDIC	ATED.					-		
		6 7	FIXTURE SHALL BE DLC PREMIL PROVIDE LENGTHS AND SHAPE	UM LISTED ES AS SHOWN ON PLANS		URES.							-		
		8 9	COLOR TO BE SELECTED BY AF 8' MINIMUM LENGTH SHALL BE U	RCHITECT FROM MANUFACTURER USED.	'S STANDARD COLORS								-		
	TAG		DESCRIPTION	VOLTS PH LOAD	FLA MCA	MOPD	DISCONNI	ECT SWITCH				CBD	PANEL	WIRING IN CONDUIT	NOTES
		CONDENSING U		208         1            208         1	28.9 28.9 1 1	40 60	0 2	40 3	BR 2	BD SIZE/ \ 26 -	-	23 23		(2)#8, (1)#10G, 1"C BY DIV 23	3
D	HP-2	HEAT PUMP		208 1				-				23	-	BY DIV 23	3
	CUH-2	UNIT HEATER UNIT HEATER UNIT HEATER		120         1         135 W           120         1         70 W           120         1         70 W	2 - 1 - 1 -	-	FWE FWE FWE		2	23 - 23 - 23 -		23 23 23	ASX	(2)#12, (1)#12G, 3/4"C (2)#12, (1)#12G, 3/4"C (2)#12, (1)#12G, 3/4"C	
		ENERGY RECOV		208 1 - 120 1 -	9.6 10.8 1.5 -	-	FWE	-		23 -	-	23 23		(2)#12, (1)#12G, 3/4"C (2)#12, (1)#12G, 3/4"C	6
	DC-1	ELECTRIC DUCT	F HEATING COIL	480 3 8.6 kW	10.3 -	-	FWE		2	23 -		23	ASL	(3)#12, (1)#12G, 3/4"C	7
		ELECTRIC DUCT NOTES: LEAD/LAG.		208 3 1.4 KW	3.9 -	-	FWE			- 23 -		23 ABBREV FURNISHED	INTIO		
		POWER TO CU E	BY DIVISION 26, WIRING BETWEEN	ON 26, INSTALLED BY DIVISION 23 N AC AND CU PROVIDED BY DIVISION (HAUST FAN. CONNECT DAMPER 1	ON 23.		AN				SWBD	NOT FUSED SWITCHBOAI FURNISHED I			
	5	UNIT IS CONSIS	TS OF MULTIPLE MOTORS FACTO G FURNISHED WITH EQUIPMENT,	PROVIDE NEMA 5-20 RECEPTACLE SPACE IN (E) PANEL ASL. PROVI	WER CONNECTION.		AIN.					CONTROL W			
С	<u>Neut</u> Hot	Note: Do NOT pow	Power Pack Contacts Red Black White Universal Voltage Power Pack Supplies 150ma)	Lighting   Load     Red (+24 VDC)     Black (common)   Blue (control)   Low Voltage Set											
В	B6	LIGHTING	CONTROL DETAIL - N	IOTE 5											
A	<u>Neut</u> Hot	Note: Do NOT pow	Power Pack Contacts Rated for 20 Amps Universal Voltage Power Pack Supplies 150ma)	Red (+24 VDC) Black (common) Blue (control) Low Voltage Manual ON/Override Low-voltage Momer (Quantity as indicate											
ļ	A6	LIGHTING	CONTROL DETAIL - N	IOTE 6											

			ŀ	PANEL S	CHEDUL	.E ~ AS	A		
VOLTAG	E: 208/120V			MCB: 100A			AIC: 10KA		
3-PHASE	, 4-WIRE								
				CIR	CUIT LOAD (F CONNECTED		BRANCH CIRCUIT DESCRIPTION		
CKT NO	BRKR SIZE	NO OF POLES	PH	А	В	С			
1	20	1	A	0.90			REC: STAIRL1, VESTL1, STAIRL2, VESTL2, FIRST FL LOBBY		
3	20	1	В		1.08		REC: R100 NORTH, EAST, & WEST WALLS		
5 7	20 20	1 1	C A	0.90		1.08	REC: R100 SOUTH & EAST WALL REC: R100A, R022		
9	20	1	В		0.54		REC: R200 WALLS		
11	20	1	С			0.36	REC: R200 CEILING		
13	20	1	A	0.36			REC: R200 CEILING		
15	20	1	В		0.36		REC: R200 CEILING		
17	20	1	С			0.54	REC: CORR1, CORR2		
19	20	1	A	1.08			REC: R250B		
21	20	1	В		1.08		REC: R250C		
23			С			1.00			
25	20	2	A	1.00			ENERGY RECOVERY UNIT ERU-1		
27	20	1	В		0.18		ENERGY RECOVERY UNIT ERU-2		
29			С			0.46			
31	20	3	A	0.46			DC-1 ELECTRIC DUCT HEATING CC		
33	_	-	В		0.46				
35	20	1	C			0.00	SPARE		
37	20	1	A	0.00		0.00	SPARE		
39	20	1	B	0.00	0.00		SPARE		
41	20	1	C		0.00	0.00	SPARE		
		SL		4.70	3.70	3.44			
2			A	3.01					
4	40	2	В		3.01		CONDENSING UNIT CU-1		
6	20	1	С			0.24	UNIT HEATER CUH-1		
8	20	1	A	0.12			UNIT HEATER CUH-2		
10	20	1	В		0.12		UNIT HEATER CUH-3		
12	20	1	С			1.08	REC: R202, R231		
14	20	1	A	0.90			REC: R202, R231		
16	20	1	В		0.36		REC: R200 CEILING		
18	20	1	С			0.00	FUTURE ELECTRIFIED DOOR HARDWARE		
20	20	1	A	0.90			REC: R250D		
22	20	1	В		0.90		REC: R250D		
24	20	1	С			0.36	REC: R200 CEILING		
26	20	1	A	0.00			SPARE		
28	20	1	В		0.00		SPARE		
30	20	1	С			0.00	SPARE		
32	20	1	A	0.00			SPARE		
34	20	1	В		0.00		SPARE		
36	20	1	С			0.00	SPARE		
38	20	1	A	0.00			SPARE		
40	20	1	В		0.00		SPARE		
42	20	1	С			0.00	SPARE		
		SL	BTOTAL	4.93	4.39	1.68			

