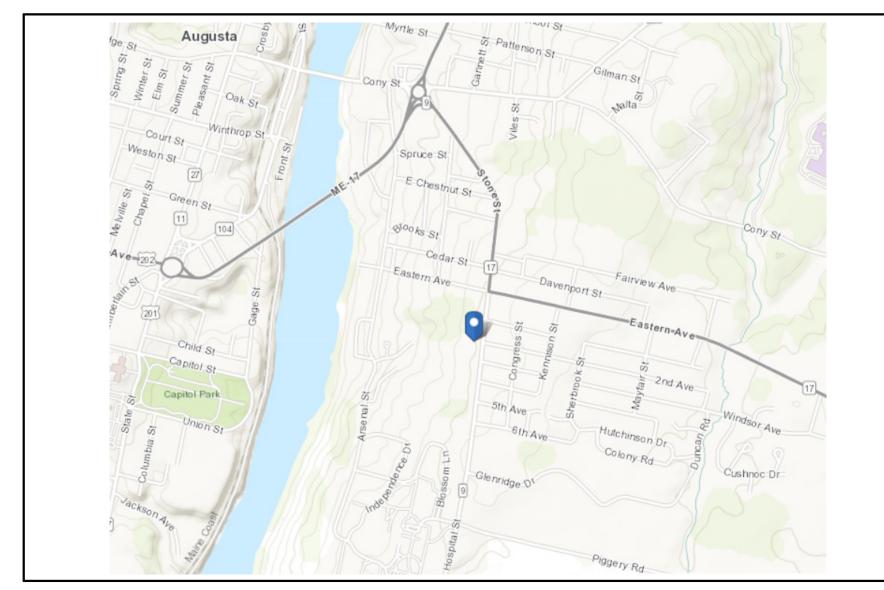
CRIME LABORATORY REROOFING MAINE STATE POLICE

26 HOSPITAL STREET, AUGUSTA, MAINE

ALLIED PROJECT #20038

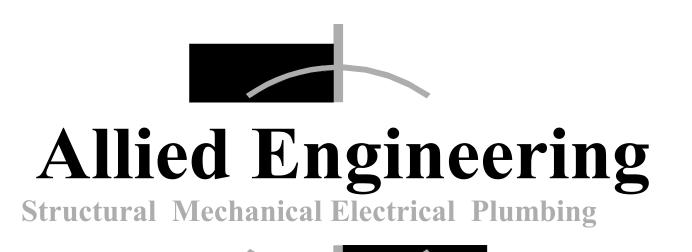
BGS PROJECT # PT 3167



LOCATION MAP

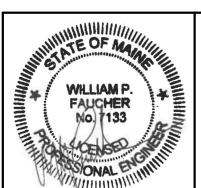
ISSUED FOR BID ~ 17 AUGUST 2020 ~ NOT FOR CONSTRUCTION

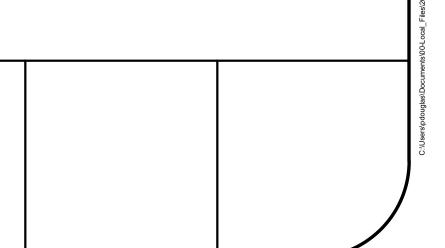
					07/29/2020	08/17/2020			
DRAWING STATUS LIST				DESCRIPTION	CONTRACT DOCUMENTS	ISSUED FOR BID			
	DRAWINGS								
SHEET No.	SHEET TITLE				75%				
G-000	COVER SHEET	•			•				
R-000	NOTES				•				
RD-100								\perp	
R-100	PROPOSED ROOF PLAN				•				
R-500	ROOF DETAILS				•				



160 Veranda Street Portland, Maine 04103 T:207.221.2260

F: 207.221.2266 Web: www.allied-eng.com





MINIMUM LOADING REQUIREMENTS:

ROOF SNOW LOADS:

a. GROUND SNOW LOAD: $P_G = 70.0 PSF$ IMPORTANCE FACTOR: I = 1.0COLD ROOF SLOPE FACTOR: $C_{S} = 1.0$ THERMAL FACTOR: $C_T = 1.1$ EXPOSURE FACTOR: $C_{E} = 1.0$ TERRAIN CATEGORY:

b. FLAT ROOF SNOW LOAD $P_f = 53.9 PSF$

PROPOSED ROOF DEAD LOAD: 20.0 PSF

ROOF LIVE LOAD:
a. STANDARD ROOF LIVE LOAD:

20 PSF, 300 POUND CONCENTRATED ALL ROOF LEVELS

WIND:

Wind Design Data									
Ultimate Wind Speed: 115 mph		Nominal Wind	89 mph						
Risk Category: II		Wind Exposure	C						
Enclosure Classification: Enclosed			End Zone Widt	5.60 ft.					
Internal Pr	essure Coeffic	cient:	0.18 +/-						
Components and Cladding Design Pressures	Roof Zone 1:		+16.0 psf max.,	-30.8 p	sf min.				
	Roof Zone 2:		+16.0 psf max., -51.6 p		sf min.				
	Roof Zone 3	3:	+16.0 psf max.,	-77.7 p	sf min.				
	Roof at Zon	e 2 Overhang	-44.3 psf min.						
	Roof at Zon	e 3 Overhang	s: -72.9		psf min.				
	Wall Zone 4:		+30.8 psf max., -33.3		psf min.				
	Wall Zone 5	:	+30.8 psf max.,	-41.2 p	sf min.				

and Cladding Design Pressures. This Building is not in a Wind-Borne Debris Region, and opening

protection is not required.

The site of this building is not subject to special topographic wind effects as per Section 1609.1.1.1 of the code.

The Ultimate Wind Speed was used to determine the above Component

COLD-FORMED METAL FRAMING NOTES

GALVANIZED (ASTM A525).

- COLD-FORMED METAL FRAMING (CFMF) UNITS INCLUDE C-SHAPED STEEL STUDS, T-SHAPED TRACKS FOR LOAD AND NON-LOAD BEARING WALLS AND C-SHAPE JOISTS.
- THE FOLLOWING COLD-FORMED FRAMING SHALL BE PER THE SIZES SPECIFIED ON THE CONTACT DOCUMENTS. CFM DESIGNER SHALL INCLUDE SPECIFIED FRAMING SIZES AND INCLUDE ALL NECESSARY ACCESSORIES AND CONNECTIONS FOR THESE WALL AND ROOF ELEMENTS IN THEIR SHOP SUBMITTAL. DRAWINGS AND CONNECTION REQUIREMENTS SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER OF RECORD FOR REVIEW FOR THE FOLLOWING ELEMENTS:
- LOAD BEARING AND NON-LOAD BEARING PERIMETER WALL FRAMING SIZES. ALL NECESSARY ACCESSORIES AND CONNECTIONS FOR THESE WALL AND ROOF ELEMENTS.
- ALL COMPONENTS SHALL CONFORM TO AISI "SPECIFICATIONS FOR DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" AND ASTM A446. ALL CFMF WALL COMPONENTS AND ACCESSORIES SHALL BE G-60
- 4. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S PRINTED OR WRITTEN INSTRUCTIONS AND RECOMMENDATIONS.
- TEMPORARY BRACING IS THE RESPONSIBILITY OF THE CONTRACTOR. PROVIDE TEMPORARY BRACING AS REQUIRED MAINTAINING A PLUMB STRUCTURE UNTIL ERECTION IS COMPLETE. DO NOT REMOVE BRACING UNTIL WORK IS PERMANENTLY STABILIZED.
- FIELD CUTTING OF LIGHT GAUGE FRAMING MEMBERS MAY BE DONE BY SAWING OR SHEARING. TORCH CUTTING OF LIGHT GAUGE MEMBERS IS UNACCEPTABLE.
- 7. SPLICING OF WALL STUDS IS NOT ALLOWED, UNLESS OTHERWISE STATED.
- 8. NOTCHING OR COPING OF STUDS IS NOT ALLOWED, UNLESS OTHERWISE STATED.
- FASTEN BOTH FLANGES OF STUDS TO TOP AND BOTTOM TRACK, EXCEPT AT DEFLECTION TRACK LOCATIONS, UNLESS OTHERWISE STATED.
- 10. SQUARELY AND TIGHTLY SEAT STUDS AGAINST WEBS OF TOP AND BOTTOM TRACK, EXCEPT AT DEFLECTION
- 11. ALL HEADERS AND BUILT-UP BEAMS ARE TO BE CONSTRUCTED WITH CONTINUOUS, UNPUNCHED MATERIAL ONLY. SPLICING HEADER MEMBERS IS NOT ALLOWED.
- 12. DETAILS OF ALL FINISHES ARE FOR ARRANGEMENT AND REFERENCE. FOR SPECIFIC REQUIREMENTS, METHODS, MATERIAL, AND EXECUTION STANDARDS, REFER TO TECHNICAL DATA FROM PRODUCT MANUFACTURER. IN THE EVENT OF CONFLICT, MANUFACTURER'S INSTRUCTION SHALL DICTATE.
- DESIGN PERFORMED IN ACCORDANCE WITH THE AISI "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS".
- FRAMING ANALYSIS ASSUMES THE EXTERIOR CLADDING IS LATERALLY ATTACHED TO EACH STUD AND JAMB. FRAMING ANALYSIS IS LIMITED TO THE UNIFORM DISTRIBUTION OF LOAD TO THE STUDS AND DOES NOT INCLUDE REVIEW OF THE EFFECTS OF LOCAL FORCES RESULTING FROM THE ATTACHMENT OF EXTERIOR CLADDING.
- ALL MEMBERS INDICATED ON THE CONTRACT DOCUMENTS ARE TO BE CONSIDERED MINIMUM PER STRUCTURAL DESIGN. INCREASES IN FLANGES AND GAUGES AS DESIRABLE OR AS OTHERWISE REQUIRED THROUGH COORDINATION BETWEEN OTHER TRADES, IS GENERALLY ACCEPTABLE PROVIDED AVAILABLE SPACE REQUIREMENTS ARE MAINTAINED.

<u>MATERIALS:</u>

- ALL LIGHT GAUGE FRAMING MEMBERS SHALL BE MANUFACTURED FROM STEEL THAT MEETS THE REQUIREMENTS OF AISI SPECIFICATIONS, LATEST EDITION.
- 2. ALL STRAP BRACING SHALL BE OF A FLAT STOCK. MATERIAL FROM A COILED STOCK WILL BE ACCEPTABLE FOR INTERIOR MID-HEIGHT STRAPPING.
- 3. FRAMING COMPONENTS SHALL BE GALVANIZED PER ASTM A653, MINIMUM G60 COATING.
- GALVANIZED STUDS, TRACKS AND ACCESSORIES SHALL BE FORMED FROM THE FOLLOWING YIELD STRENGTH AND ITS RESPECTIVE GAUGE: 33 MIL-33 KSI, 43 MIL-33 KSI, 54 MIL AND HEAVIER – 50 KSI, UNLESS NOTED OTHERWISE.

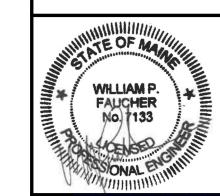
- FASTENER PENETRATION TROUGH JOINED MATERIALS SHALL NOT BE LESS THAN THREE EXPOSED THREADS. MINIMUM SPACING AND EDGE DISTANCE OF SCREW FASTENERS SHALL NOT BE LESS THAN 5/8"
- 2. PAF'S, EXPANSION ANCHOR SYSTEM, MASONRY SCREW SYSTEMS, AND ADHESIVE ANCHOR SYSTEMS DESIGN VALUES ARE BASED ON HILTI PUBLISHED VALUES, UNLESS OTHERWISE STATED.
- 3. SCREW DESIGN VALUES ARE BASED ON AISI/LGSEA PUBLISHED VALUES.

INCHES OF END OF TRACK.

- 4. FASTENING OF COMPONENTS SHALL BE WITH SELF-TAPPING SCREWS OF SUFFICIENT SIZE TO MEET OR EXCEED THE DESIGN LOADS AND TO ASSURE THE STRENGTH OF THE CONNECTION.
- PROVIDE BRIDGING AT MID-HEIGHT VERTICAL MAXIMUM SPACING. PROVIDE BLOCKING AS INDICATED AS REQUIRED BY AISI.
- 6. AT TRACK BUTT JOINTS, TRACK MUST BE ANCHORED TO A COMMON STRUCTURAL ELEMENT WITHIN 6
- 7. STUDS SHALL BE SEATED SQUARELY IN TRACK WITH STUD FLANGES ABUTTING THE TRACK FLANGES. STUDS SHALL BE PLUMBED, ALIGNED AND SQUARELY ATTACHED TO FLANGES OF TOP AND BOTTOM TRACK WITH 2-#10 TEK SCREWS MINIMUM UNLESS NOTED ON PLANS.

GENERAL NOTES:

- THE NOTES ON THESE DRAWINGS ARE NOT INTENDED TO REPLACE THE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO THE GENERAL NOTES. INCONSISTENCIES BETWEEN THE DRAWINGS AND THE SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- ALL DIMENSIONS AND COORDINATES SHALL BE FIELD VERIFIED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS, OR TIEDOWNS, SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
- SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS.
- THE CONTRACTOR SHALL PERFORM ALL WORK IN CONFORMANCE WITH ALL APPLICABLE FEDERAL, STATE AND MUNICIPAL REGULATIONS.
- ALL CONTRACTORS SHALL CONFORM TO SAFETY REQUIREMENTS OF THE BUREAU OF REAL ESTATE MANAGEMENT, OSHA SAFETY AND HEALTH STANDARDS, AND OTHER LOCAL AUTHORITIES IN CONNECTION WITH THE PERFORMANCE OF THIS PROJECT.
 - 7. ALL REFERENCED STANDARDS OR PUBLICATIONS SHALL PERTAIN TO THE MOST CURRENT DATA, STANDARD OR PUBLICATION, UNLESS NOTED OTHERWISE.
 - ANY INCONSISTENCIES WITH THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED PORTIONS OF THE WORK.
- ALL DIMENSIONS AND ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS ARE GENERATED FROM EXISTING BUILDING DRAWINGS WHICH WILL BE MADE AVAILABLE TO THE SUCCESSFUL CONTRACTOR. ANY DIMENSIONS OR ELEVATIONS OMITTED OR NOT SHOWN ON THE STRUCTURAL DRAWINGS SHOULD BE CONFIRMED BY THE GENERAL CONTRACTOR. ANY INCONSISTENCIES WITH THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED PORTIONS OF
- 10. IF DIFFERENCES OCCUR WITHIN OR BETWEEN THE DRAWINGS AND SPECIFICATIONS REGARDING MATERIALS, STRENGTHS OR QUANTITIES, THE BETTER, HIGHER STRENGTH, AND GREATER QUANTITY INDICATED, SPECIFIED OR NOTED SHALL BE PROVIDED.
- 11. THE CONTRACTOR SHALL VISIT THE SITE AT A DESIGNATED TIME APPROVED BY THE OWNER, TO VERIFY EXISTING CONDITIONS, DIMENSIONS, LOCATION OF EXISTING UTILITIES, ETC. THE CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES WITHOUT EXCEPTION.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ERECTION PROCEDURES AND SEQUENCE OF INSTALLATION TO ENSURE SAFETY OF THE BUILDING AND ITS OCCUPANTS DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS AND TEMPORARY SHORING, PRECAUTIONS DURING BUILDING OPERATIONS, PROTECTION OF PUBLIC AND WORKERS, WEATHER PROTECTION OF ANY OPEN WORK ZONES, REMOVAL OF WASTE MATERIAL, PROTECTION OF ADJACENT PROPERTY, PROTECTION OF HAZARDOUS OPENINGS, SAFETY PRECAUTIONS, AND SANITARY PROVISIONS OF EMPLOYEES AND SUBCONTRACTORS AS REQUIRED FOR THE DURATION OF THE CONTRACT.
- WORK SHALL BE DONE IN AN ORDERLY AND PROFESSIONAL MANNER. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL WORK TO BE DONE BY SUBCONTRACTORS, LOCAL AUTHORITIES, STATE AGENCIES AND/OR UTILITY COMPANIES WHICH MAY HAVE JURISDICTION OVER THIS PROJECT.
- 14. UTILITY EXTENSIONS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH STATE AND LOCAL CODES.
- 15. CONTRACTOR SHALL REVIEW AND SUBMIT COMPLETE SHOP DRAWINGS FOR ALL SPECIFIED PARTS OF THE WORK. NO PORTION OF THE WORK COVERED BY THESE SHOP DRAWINGS SHALL COMMENCE UNTIL RETURNED APPROVED SHOPS ARE RECEIVED BY THE CONTRACTOR. SHOP SUBMITTAL PACKAGES SHALL INCLUDE, BUT NOT BE LIMITED TO:
 - COLD FORMED METAL FRAMING: COLD-FORMED METAL CUT SHEETS, CONNECTIONS, PLACEMENT DRAWINGS AND FRAMING ELEMENTS.
- MISCELLANEOUS STEEL: MISCELLANEOUS STEEL FRAMING COMPONENT INCLUDING STAIR FRAMING AND STAIR RAIL ASSEMBLY (INCLUDING SHOP CALCULATIONS PREPARED BY A ME LICENSED PE) SHOP DRAWINGS ALONG WITH STEEL ORIGIN AND STRENGTH/GRADES.
- C. ROOFING COMPONENTS: THOSE ELEMENTS IDENTIFIED IN THE APPROPRIATE SPECIFICATIONS SECTIONS, INCLUDING BUT NOT LIMITED TO, INSULATION, COVER BOARDS, EPDM MEMBRANE, FASTENERS, ADHESIVE PRODUCTS, FLASHINGS, ETC.
- 16. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY EXISTING ITEMS DAMAGED BY NEW CONSTRUCTION, AND FOR ANY INCIDENTAL REPAIRS OF EXISTING FINISHED SURFACES DISTURBED BY NEW CONSTRUCTION; SUCH REPAIRS SHALL MATCH EXISTING TO THE OWNER'S SATISFACTION.
- 17. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING, HANDLING, AND STORAGE OF ITEMS/MATERIALS TO REMAIN THE PROPERTY OF THE OWNER WITH THE OWNER'S REPRESENTATIVE.
- 18. THE CONTRACTOR SHALL CLEAN, INSPECT AND TEST ALL EXISTING ROOF DRAIN LEADERS AND REPORT ANY DEFECTS TO THE ENGINEER.
- 19. EXTEND ALL PLUMBING VENT STACKS A MINIMUM OF 2'0" ABOVE NEW ROOF. EXTEND ALL MECHANICAL DUCTING TO ACCOMMODATE REINSTALLATION AT THE NEW ROOF ELEVATIONS.
- 20. ALL PLUMBING, VENT PIPING AND DUCT CONNECTIONS SHALL OCCUR IN THE CEILING CAVITY AND SHALL PASS WITHOUT INTERRUPTION THROUGH THE NEW ROOF AND/OR SIDEWALLS.
- 21. CONTRACTOR SHALL FIELD VERIFY AND CONFIRM COMPOSITION OF EXISTING ROOF MEMBRANE, INSULATION AND COVER BOARD SYSTEM TO THE ROOF DECK SYSTEM PRIOR TO SUBMITTING A BID.
- 22. PROVIDE (4) L4" X 4" X 3/8" TO BOX FRAME EACH ROOF DRAIN ASSEMBLY BENEATH THE STEEL DECK.
- 23. WHERE REMOVAL OF CEILING TILE FOR ACCESS TO EXISTING ROOF FRAMING UPGRADES WILL BE NECESSARY, THE CONTRACTOR SHALL CARRY IN THEIR BIDS REPLACEMENT OF UP TO 25% OF THESE TILES WITH NEW TILE TO MATCH.
- 24. CONTRACTOR SHALL VERIFY BY MEANS OF SITE INSPECTION, PRIOR TO BID, THE EXTENT, QUANTITY AND LOCATIONS OF ANY AND ALL CONDUIT, LIGHT FIXTURES, WIRING, MECHANICAL EQUIPMENT, DUCTWORK, ETC. REQUIRING REMOVAL AND REINSTALLATION FOR PROPER INSTALLATION ACCESS.
- 25. COORDINATE DUST PROTECTION AND TEMPORARY PROTECTIONS WITHIN THE BUILDING WITH THE OWNER PRIOR TO THE START OF CONSTRUCTION. ALL PERSONNEL REQUIRING ACCESS TO THIS FACILITY WILL BE REQUIRED TO PASS A BACKGROUND CHECK BY OWNER PRIOR TO GAINING ACCESS TO THIS FACILITY.

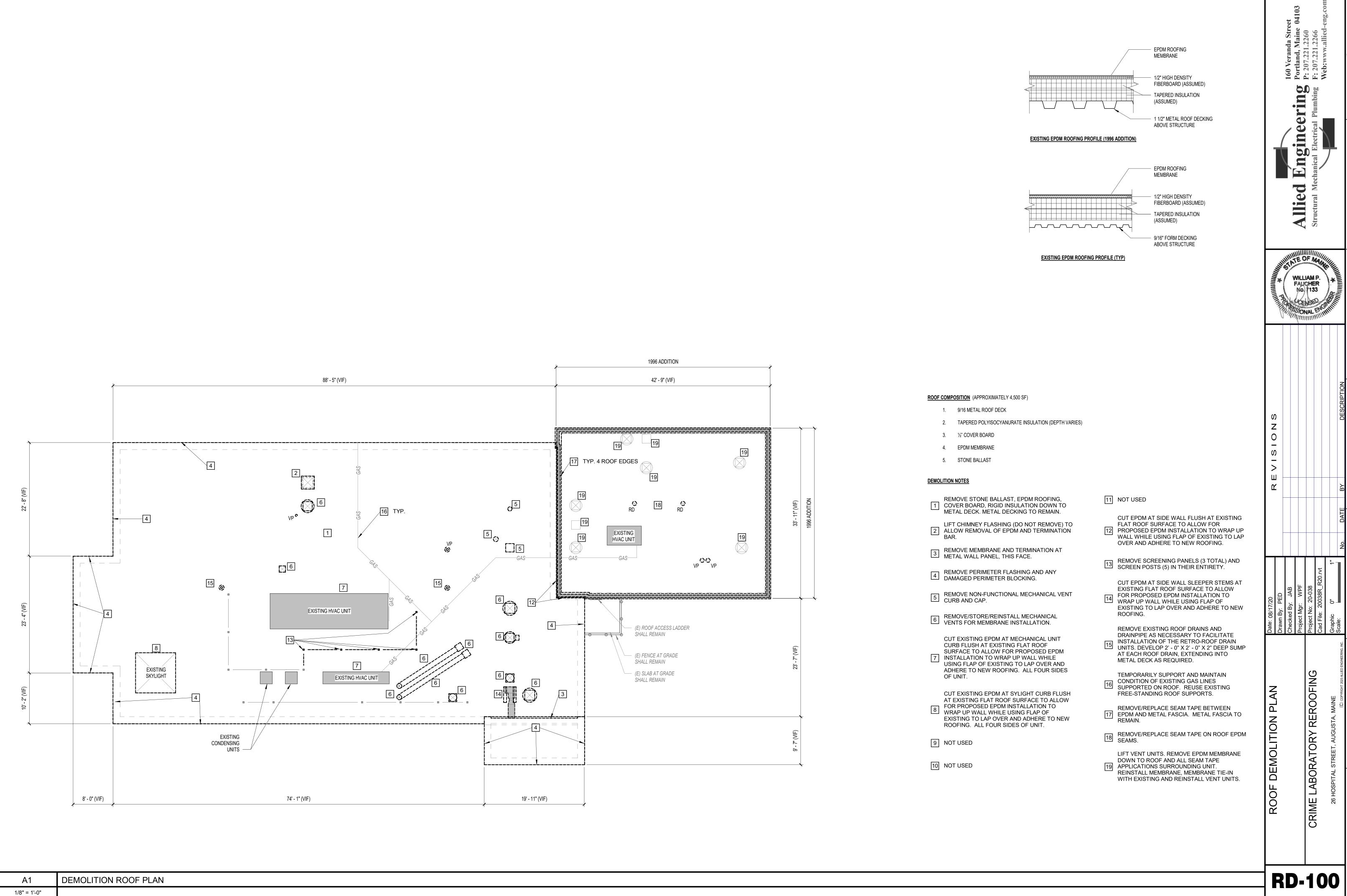


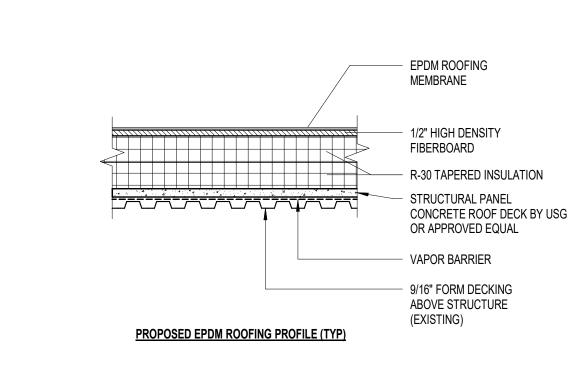
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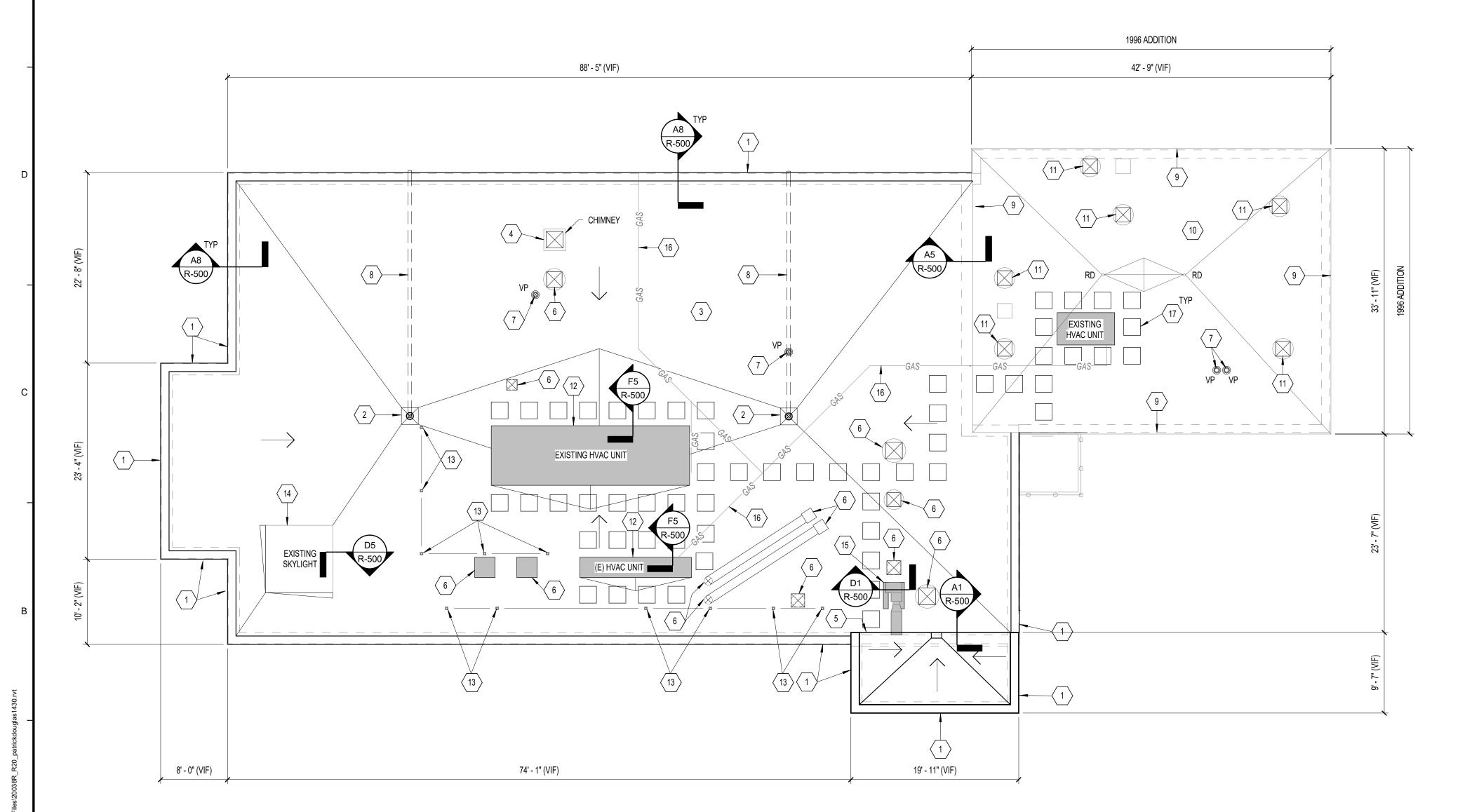
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Date: 08/17/20	Drawn By: PED	Checked By: IAB	Ollecked by. JAB	Project Mgr: WPF	Project No: 20-038	Cad File: 20038R R20.rvt	Graphic 0" 1"	Scale:	С
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R-000







REROOFING/CONSTRUCTION SCOPE

- 1 REPLACE METAL FASCIA.
- PROVIDE RETRO-FIT DRAIN REPLACEMENT AND DEBRIS COVER. DEVELOP 2 FT X 2 FT SQUARE SUMP CENTERED ON DRAIN.
- PROVIDE ADDITIONAL PERIMETER BLOCKING IN ORDER TO CREATE 2" STEP ABOVE TAPERED INSULATION AT PERIMETER EDGES. AIR/VAPOR BARRIER, 1" CONCRETE BOARD (FASTENED TO STEEL FRAMING BELOW, 5 ½" POLYISOCYANURATE, ½" COVER BOARD AND 0.060 EPDM MEMBRANE WITH CRICKET INSTALLATIONS AS SHOWN TO SLOPE ROOF SURFACES TO DRAIN
- INSTALL 1" x 1/8" FLAT COPPER MEMBRANE TERMINATION AT CHIMNEY. RE-BEND AND FASTEN EXISTING CHIMNEY FLASHING IN PLACE.
- INSTALL CFM WALL SYSTEM OVER WINDOW WALL, COVER BOARD AS NECESSARY FOR APPLICATION OF EPDM MEMBRANE TO THE FACE OF THE WALL. TIE MEMBRANE ON THIS WALL FACE TO LOWER AND UPPER ROOF SURFACES. PROVIDE VERTICAL METAL TURN-BAR APPLICATION TO FACE OF BRICK WALL.
- 6 INSTALL MEMBRANE UP AND OVER TOP OF CURBS PRIOR TO REINSTALLATION OF VENT STACKS.
- 7 VENT PIPES (TYPICAL): PROVIDE A EPDM PIPE BOOT WITH MINIMUM CLEARANCE FROM ROOF SURFACE TO CLAMP OF NOT LESS THAN 8".
- PROVIDE 5" OVERFLOW ROOF DRAINS (2). PLUMB WITH 5" DIAMETER SCHEDULE 40 PVC. TRANSITION TO 6" SCHEDULE 40 PVC 2'0" INSIDE OF EXTERIOR WALL. PROVIDE A 6" CHAMELEON DOWNSPOUT NOZZLE (FROET INDUSTRIES, LLC OR EQUAL) COLOR DARK ANODIZED BRONZE 38/60090.

- PREPLACE SEAM TAPE AT PERIMETER METAL FASCIA ALONG ALL FOUR (4) ROOF EDGES.
- (10) REPLACE SEAM TAPE IN FIELD OF 1996 ROOF.
- LIFT/STORE/REPLACE VENT/FANS TO ALLOW REINSTALLATION OF CURB MEMBRANE AND MEMBRANE TIE-INS WITH EXISTING FIELD MEMBRANE.
- CUT MEMBRANE OF CURB AT ROOF LINE (ALL 4 SIDES OF UNIT) AND WRAP UP UNIT PRIOR TO INSTALLATION OF A NEW MEMBRANE CURB BASE APPLICATION. WHEN COMPLETE, ADHERE EXISTING MEMBRANE FLAP DOWN OVER NEW MEBRANE CURB FLASHING INSTALLATION.
- 13 PROVIDE PIPE BOOTS FOR SCREENING POSTS BASES.
- CUT MEMBRANE OF SKYLIGHT CURB AT ROOF LINE (ALL 4 SIDES OF UNIT) AND WRAP UP UNIT PRIOR TO INSTALLATION OF A NEW MEMBRANE CURB BASE APPLICATION. WHEN COMPLETE, ADHERE EXISTING MEMBRANE FLAP DOWN OVER NEW MEBRANE CURB FLASHING INSTALLATION.
- CUT MEMBRANE OF SLEEPER CURB AT ROOF LINE (ALL 4 SIDES OF UNIT)
 AND WRAP UP UNIT PRIOR TO INSTALLATION OF A NEW MEMBRANE CURB
 BASE APPLICATION. WHEN COMPLETE, ADHERE EXISTING MEMBRANE
 FLAP DOWN OVER NEW MEBRANE CURB FLASHING INSTALLATION.
- TEMPORARILY SUPPORT OR REMOVE/STORE/REINSTALL PIPING TO ALLOW WORK.
- PROVIDE RUBBER WALKWAY PADS.

Allied
Structural Me

A1 PROPOSED ROOF PLAN
1/8" = 1'-0"

R-100

