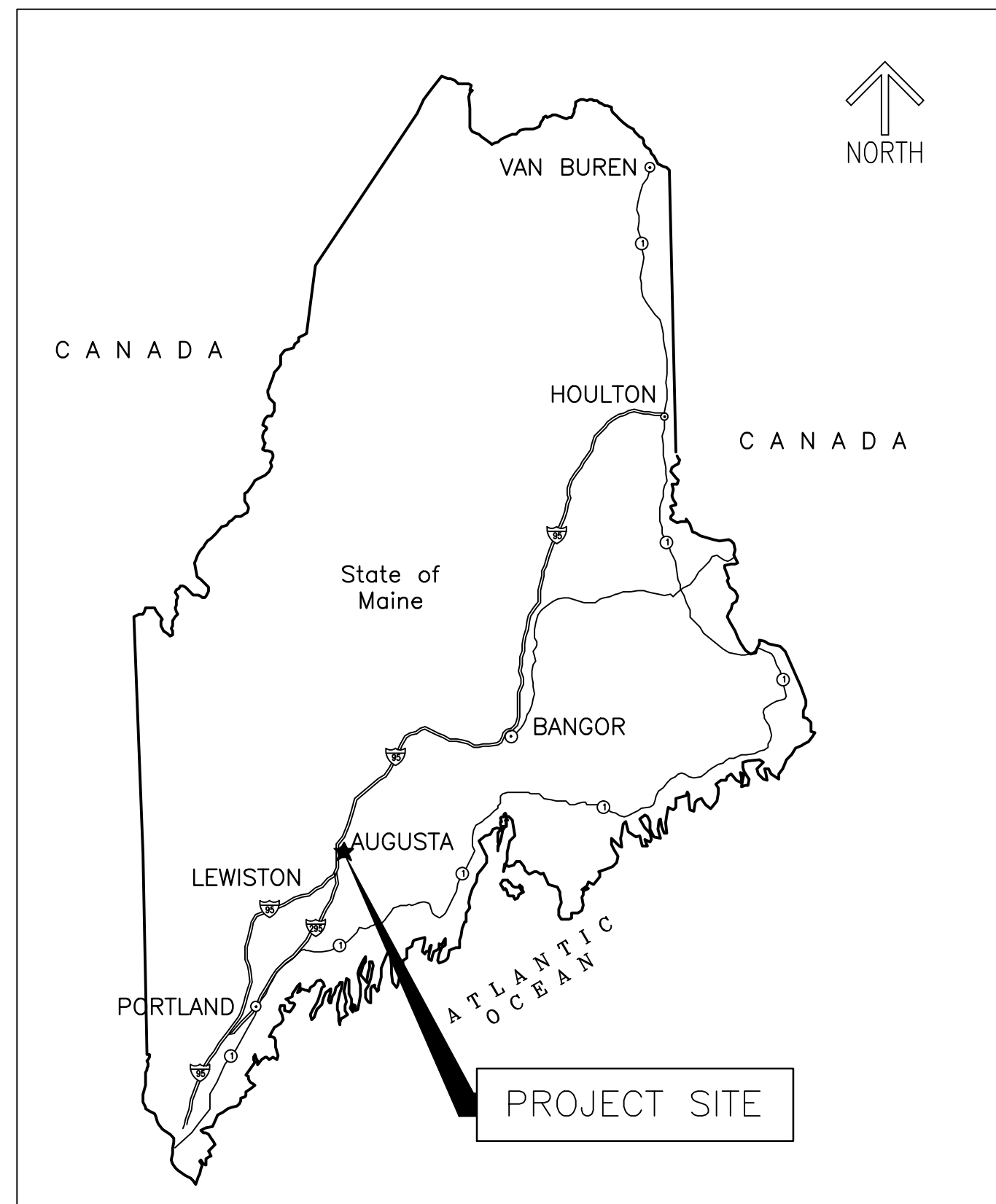
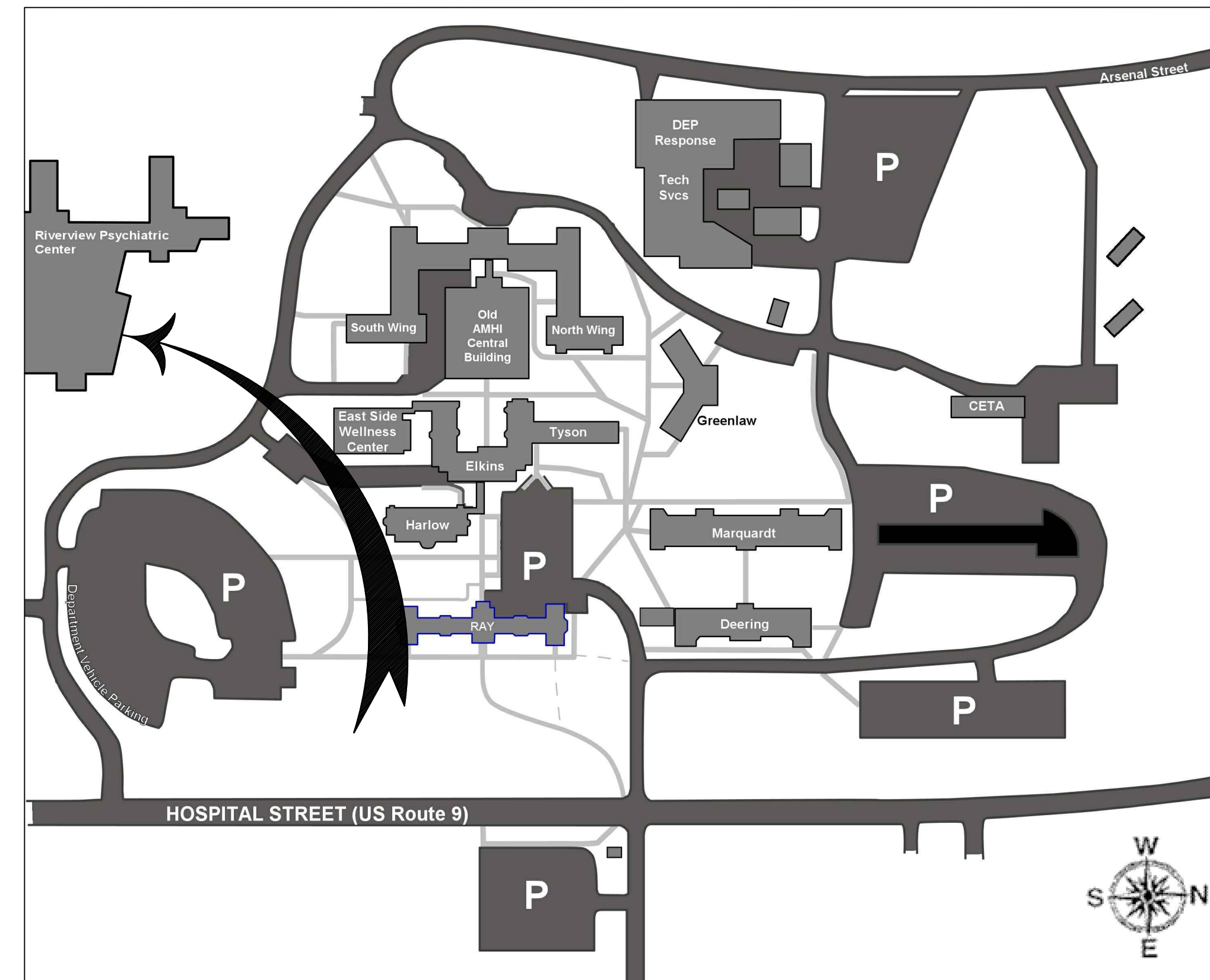


RIVERVIEW PSYCHIATRIC CENTER ATTIC SPRINKLER EXTENSION AUGUSTA, MAINE



B2 VICINITY MAP
NOT TO SCALE



B4 PROJECT LOCATION
NOT TO SCALE

INDEX OF DRAWINGS		
REFERENCE NUMBER	TITLE	SEQUENCE
GENERAL		
G-001	COVER SHEET	1 OF 4
FIRE PROTECTION		
FP-001	LEGEND ABBREVIATIONS, AND GENERAL NOTES	2 OF 4
FP-101	ATTIC FLOOR PLAN - SACO (AREA D)	3 OF 4
FP-102	ATTIC FLOOR PLAN - KENNEBEC (AREA C)	4 OF 4

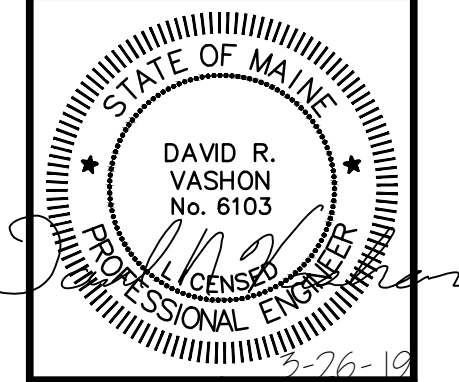
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STATE OF MAINE
RIVERVIEW PSYCHIATRIC CENTER
AUGUSTA, MAINE

CLIENT:



ISSUED FOR BID
03-26-2019
PROJECT:
RIVERVIEW PSYCHIATRIC CENTER
ATTIC SPRINKLER EXTENSION
250 ARSENAL ST., AUGUSTA, ME

ISSUE FOR BID	DATE
0	03-26-19
REVISION	DESCRIPTION

PROJECT NUMBER: 3618198674
PROJECT MANAGER: EAH
A/E OF RECORD: RDJ
DRAWN BY: DMD
CAD FILE: G-101

COVER SHEET

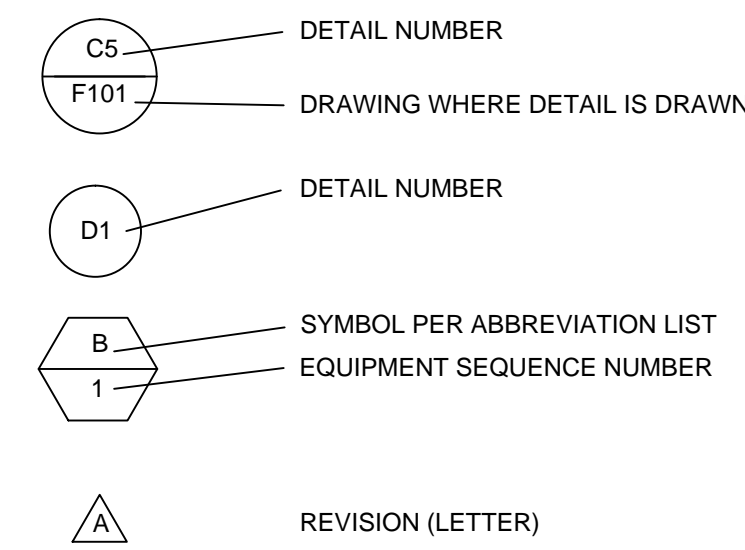
G-001
1 OF 4

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ABBREVIATIONS

DPW	DEPARTMENT OF PUBLIC WORKS
EL	ELEVATION
GPM	GALLONS PER MINUTE
FM	FACTORY MUTUAL GLOBAL
HYDT	HYDRANT
N.C. O.S.&Y.	OUTSIDE SCREW AND YOKE NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
O.S.&Y.	OUTSIDE SCREW AND YOKE VALVE
PSI	POUNDS PER SQUARE INCH
SQ. FT.	SQUARE FEET
TS	VALVE WITH TAMPER SWITCH
UP/DN	PIERCES FLOOR
UL	UNDERWRITERS LABORATORIES

GENERAL SYMBOLS

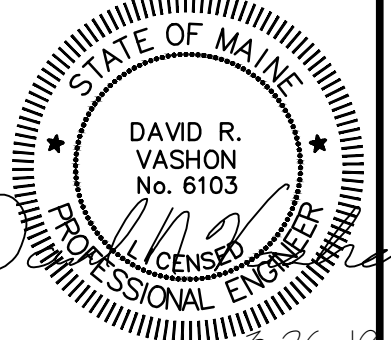


GENERAL NOTES

- FIRE PROTECTION SYSTEMS SHALL COMPLY WITH THE PROJECT SPECIFICATIONS, NFPA 13 (2016 ED. AS ADOPTED BY THE STATE FIRE MARSHAL) AND RULES OF THE STATE FIRE MARSHAL, CHAPTER 4 WATER-BASED FIRE PROTECTION SYSTEMS.
- DESIGN AND INSTALLATION SUBJECT TO APPROVAL BY THE STATE FIRE MARSHAL.
- SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL PIPING LAYOUT AND HYDRAULIC CALCULATIONS FOR THE ATTIC SPRINKLER SYSTEMS.
- CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS SHALL BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT OR STRUCTURAL ENGINEER.
- FIRESTOP ALL PENETRATIONS OF FIRE RATED WALLS, CEILINGS, AND FLOORS.
- PROVIDE A STOCK OF SPARE SPRINKLERS IN ACCORDANCE WITH NFPA 13.
- METHOD OF HANGING AND SUPPORTING FIRE PROTECTION PIPING AND EQUIPMENT SHALL BE IN ACCORDANCE WITH NFPA 13.
- AUTOMATIC SPRINKLER TEMPERATURE RATING OF FUSIBLE ELEMENTS AND DISTANCE FROM HEAT SOURCES SHALL BE IN ACCORDANCE WITH NFPA 13.
- ALL FIRE PROTECTION EQUIPMENT AND MATERIALS SHALL BE LISTED BY THE UNDERWRITERS LABORATORIES (UL) AND/OR APPROVED BY FACTORY MUTUAL (FM).
- FIRE PROTECTION SYSTEM PRODUCTS AND INSTALLATION SHALL COMPLY WITH TECHNICAL SPECIFICATION 211313.
- PROVIDE A PERMANENTLY ATTACHED HYDRAULIC NAME PLATE STATING THE REQUIRED DESIGN CRITERIA FOR EACH HYDRAULICALLY DESIGNED SYSTEM IN ACCORDANCE WITH NFPA 13.
- ONLY NEW MATERIALS SHALL BE USED IN THE INSTALLATION OF THESE SYSTEMS.
- WATER FLOW TEST INFORMATION:
 - TEST DATE: MARCH 13, 2019
 - CONDUCTED BY: GREATER AUGUSTA UTILITY DISTRICT
 - FLOW: 782 GPM
 - STATIC PRESSURE: 92 PSI
 - RESIDUAL PRESSURE: 74 PSI
 - HYDRANT LOCATION (FLOW): HYDRANT # 357 (CORNER OF KELTON ROAD AND HOSPITAL STREET)
 - GAGE LOCATION (PRESSURE READING): HYDRANT 125-P RIVERVIEW HOSPITAL (SOUTH SIDE)
 - APPROXIMATE ELEVATIONS (FROM SPRINKLER AS-BUILT DRAWINGS AND UTILITY DISTRICT FLOW TEST DATA SHEET)
 - 178 FT. (AT GAGE READINGS)
 - 179 FT. - 8-3/8 IN. (1ST FL)
 - 193 FT. - 8-3/8 IN. (2ND FL)
 - 208 FT. - 0-3/8 IN. (PENTHOUSE [3RD FL])
 - HYDRANT TEST EFFECTIVE PRESSURE POINT: RIVERVIEW FIRE PROTECTION SERVICE CONNECTION AT HOSPITAL STREET. SEE TECHNICAL SPECIFICATION 211313.

FIRE PROTECTION PIPING SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
UP/DN	UP/DN	PIERCES FLOOR
RISE/DROP		RISE/DROP WITHIN STORY HEIGHT
		PENDENT SPRINKLER
		DRY PENDENT SPRINKLER
		UPRIGHT SPRINKLER
		SPRINKLER HEAD WITH GUARD
		SIDEWALL SPRINKLER
		STANDARD DRY SIDEWALL SPRINKLER
		BUTTERFLY VALVE
		WALL POST INDICATOR VALVE
		POST INDICATOR VALVE
	O.S. & Y.	OUTSIDE SCREW AND YOKE VALVE
	N.C. O.S. & Y.	OUTSIDE SCREW AND YOKE NORMALLY CLOSED VALVE
	TS	VALVE WITH TAMPER SWITCH
		CHECK VALVE
		DOUBLE CHECK BACKFLOW PREVENTION ASSEMBLY
		RPZ BACKFLOW PREVENTION ASSEMBLY
		RPZ DETECTOR ASSEMBLY
	M	WATER METER
		ALARM CHECK VALVE
		WET PIPE SPRINKLER RISER - AUTO ACTUATED
		DRY PIPE SPRINKLER RISER - AUTO ACTUATED
		BACKFLOW PREVENTER FLOW TEST CONNECTION (SYMBOLIC ONLY. REFER TO SHEET FP-501 FOR REQUIRED NUMBER OF HOSE CONNECTIONS)
		SIAMESE FIRE DEPARTMENT CONNECTION
		STORZ FIRE DEPARTMENT CONNECTION
	NS	NON SPRINKLERED SPACE
		ELBOW TURN DOWN
		PIPE TURN UP/PIPE RISE
		TEE TURN UP
		TEE TURN DOWN
		FLUSHING CONNECTION
		PIPE SLOPE DIRECTION
		LINE BREAK



CURRENT ISSUE STATUS:
ISSUED FOR BID
 03-26-2019
 PROJECT:
RIVERVIEW PSYCHIATRIC CENTER
ATTIC SPRINKLER EXTENSION
 250 ARSENAL ST., AUGUSTA, ME

ISSUE FOR BID	DATE
0	03-26-2019
REV	REVISION ISSUE DESCRIPTION

PROJECT NUMBER: 3618198674
 PROJECT MANAGER: EAH
 A/E OF RECORD: RDJ
 DRAWN BY: DMD
 CAD FILE: FP-001

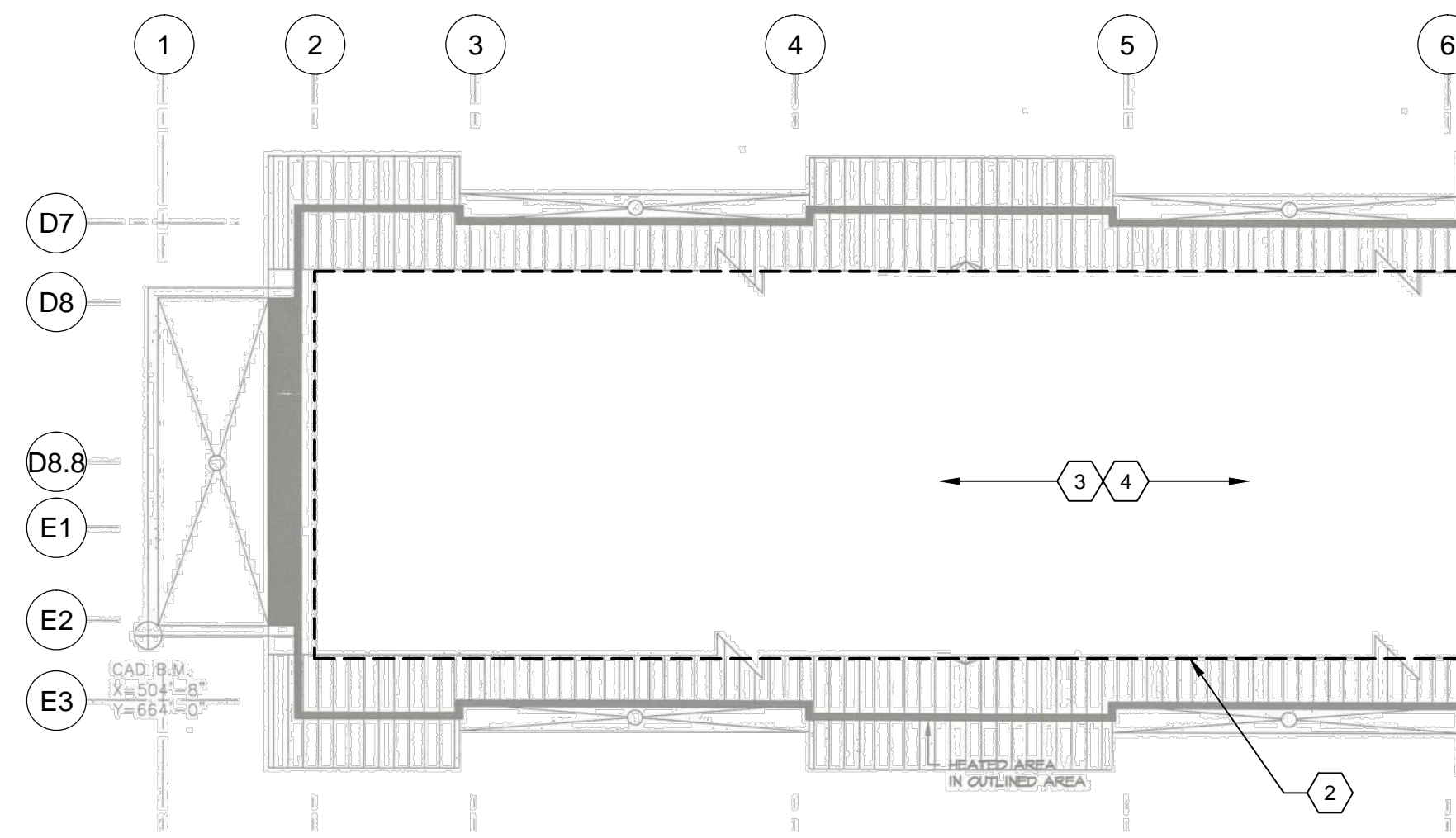
LEGEND,
 ABBREVIATIONS, AND
 GENERAL NOTES

FP-001
 2 OF 4

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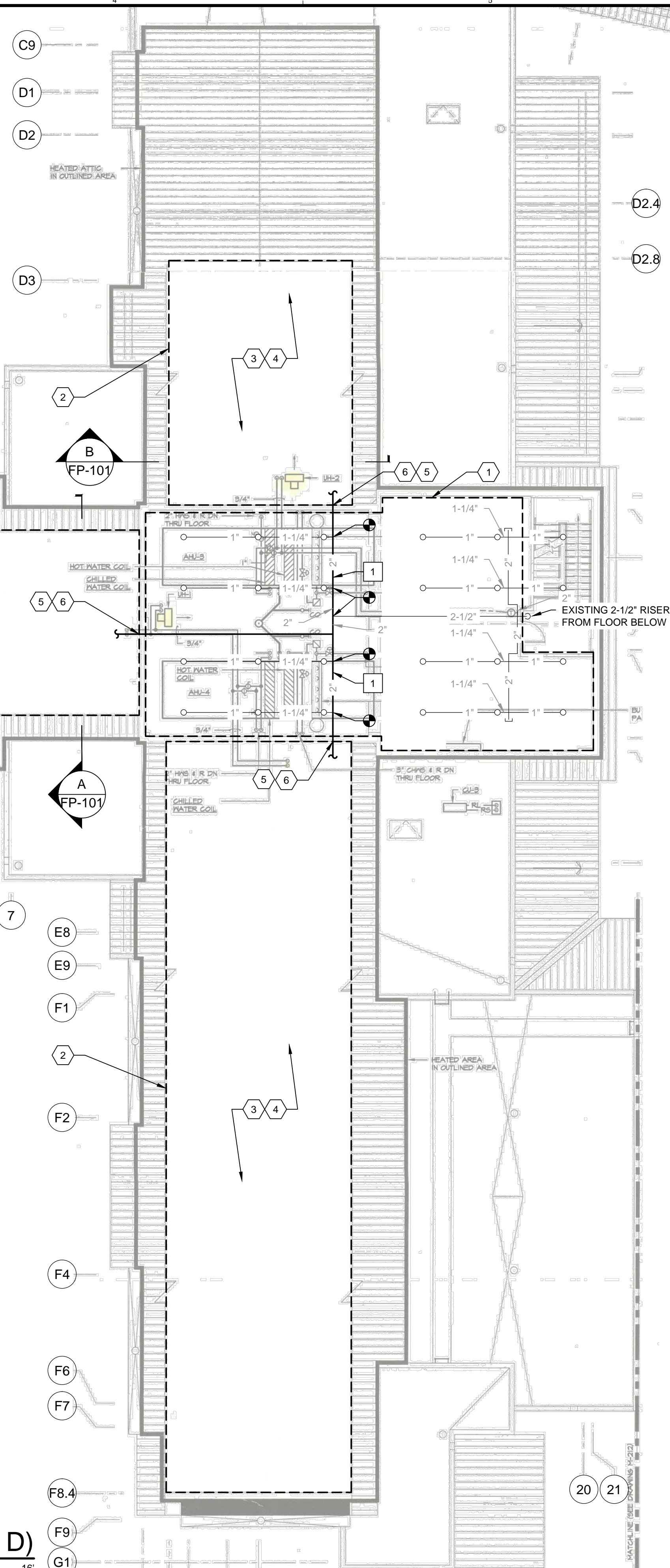
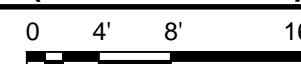


D1 SECTION A
NOT TO SCALE



A1 SECTION B
NOT TO SCALE

A2 ATTIC FLOOR PLAN - SACO (AREA D)
3/32" = 1' - 0"



NOTES

- SEE SHEET FP-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS AND FOR WATER SUPPLY INFORMATION.
- OCCUPANCY: ATTIC SPACE. TO REMAIN A HEATED BUT VACANT SPACE; LIGHT HAZARD OCCUPANCY.
- EXTEND SPRINKLER PROTECTION INTO THE 3 ATTIC AREAS AS SHOWN TO PROVIDE COMPLETE SPRINKLER COVERAGE.
- ROOF PITCH: ±12 IN. RISE: 14 IN. RUN CONTRACTOR TO VERIFY.
- ATTIC HORIZONTAL SPAN: ±28 FT CONTRACTOR TO VERIFY.
- PROVIDE SPRINKLER GUARDS WHERE REQUIRED PER SPECIFICATION SECTION 21 13 13.
- PROVIDE MEANS TO FACILITATE FLUSHING OF SPRINKLER SYSTEM PIPING BY INSTALLING FLUSHING CONNECTIONS PER NFPA 13 §8.16.3 OF NFPA 13.
- PROVIDE AUXILIARY DRAINS AT TRAPPED LOW POINTS IN ACCORDANCE WITH NFPA 13, §8.16.2.5.2.
- PIPING 2-IN. AND SMALLER: SCH 40 BLACK STEEL.
- PIPING GREATER THAN 2 IN.: SCH 10 BLACK STEEL.
- FITTINGS: 1 IN. TO 1-1/2 IN. - BLACK CLASS-150 MALLEABLE IRON THREADED FITTINGS; 2-IN. AND GREATER - ROLL GROOVED ENDS AND PAINTED DUCTILE IRON GROOVED FITTINGS.

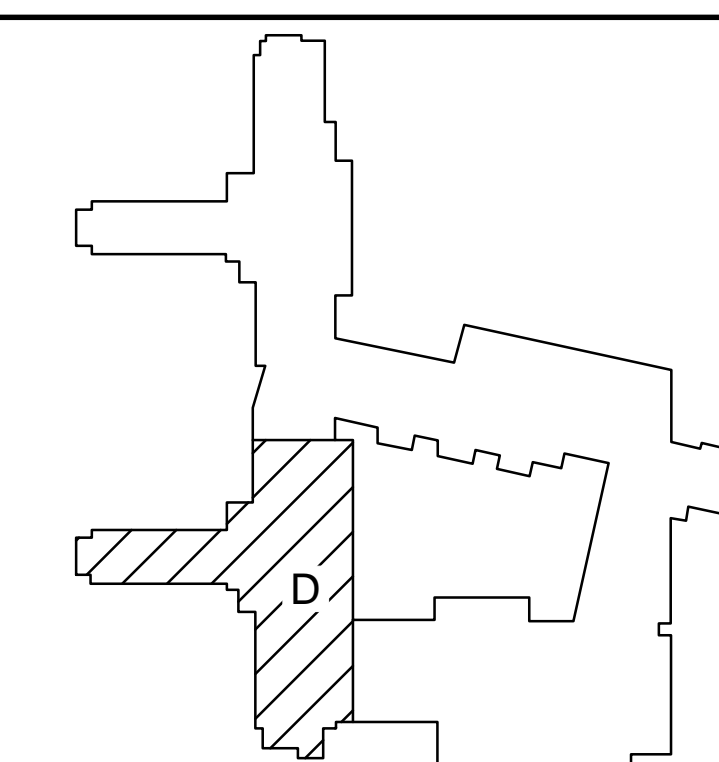
DEMOLITION KEYNOTES

- BIDDERS SHALL ASSUME THAT THE EXISTING 2IN CROSS MAIN WILL NEED TO BE UP-SIZED TO 2-1/2IN. AWARDED CONTRACTOR SHALL CONFIRM BY HYDRAULIC CALCULATIONS PRIOR TO PIPE FABRICATION. SEE TECHNICAL SPECIFICATION 211313. RECONNECT BRANCHES.

KEYED NOTES

- EXISTING SPRINKLERED MECHANICAL PENTHOUSE.
- INSTALL SPRINKLER PROTECTION THROUGHOUT THREE ATTIC SPACES SHOWN. BASED ON PRELIMINARY HYDRAULIC ASSESSMENT. LISTED / APPROVED SPECIFIC APPLICATION ATTIC SPRINKLERS ARE RECOMMENDED FOR ATTIC SPACE PROTECTION TO MINIMIZE FLOW AND PRESSURE REQUIREMENTS.
- INSTALL BACK TO BACK VIKING MODEL V-BB, BACK TO BACK TYCO MODEL BB, OR APPROVED EQUAL SPRINKLERS ALONG THE RIDGE LINES. INSTALL AS FOLLOWS OR AS OTHERWISE LISTED BY MANUFACTURER:
 - SPACE A MINIMUM OF 4 FT. AND MAXIMUM OF 6 FT. ALONG LINES.
 - MIN 16 IN. AND MAX OF 22 IN. BELOW PEAK.
 - MAXIMUM DISTANCE FROM CENTERLINE OF RIDGE: 6 IN. W/ DEFLECTOR 16 IN. TO 22 IN. FROM PEAK.
- INSTALL SAME MANUFACTURER SUPPLEMENTAL ATTIC SPRINKLERS (I.E. TYCO MODEL AP OR EQUAL) OR STANDARD SPRAY SPRINKLERS AT OBSTRUCTED AREAS (I.E. DUCTS), IF REQUIRED BY MANUFACTURER'S INSTALLATION LISTING, SUCH AS:
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 - WHERE OBSTRUCTION IS GREATER THAN 4 FT. WIDE.
 - WHERE OBSTRUCTION IS LESS THAN 36 IN. BELOW THE ATTIC SPRINKLER DEFLECTOR.
- FEED ATTIC SPRINKLERS BY EXTENDING TO NEW 2-1/2 IN. CROSS MAIN FROM MECHANICAL ROOM.
- FIRE CAULK AT FIRE BARRIER PENETRATION (MIN 2-HR RATING).

KEY PLAN



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STATE OF MAINE
RIVERVIEW PSYCHIATRIC CENTER
AUGUSTA, MAINE

CLIENT:

STATE OF MAINE
DAVID R. VASHON
No. 6103
PROFESSIONAL ENGINEER

ISSUED FOR BID
03-26-2019

PROJECT:
RIVERVIEW PSYCHIATRIC CENTER
ATTIC SPRINKLER EXTENSION
250 ARSENAL ST., AUGUSTA, ME

REV	ISSUE FOR BID	DATE
0	ISSUE FOR BID	03-26-2019

REVISION ISSUE DESCRIPTION

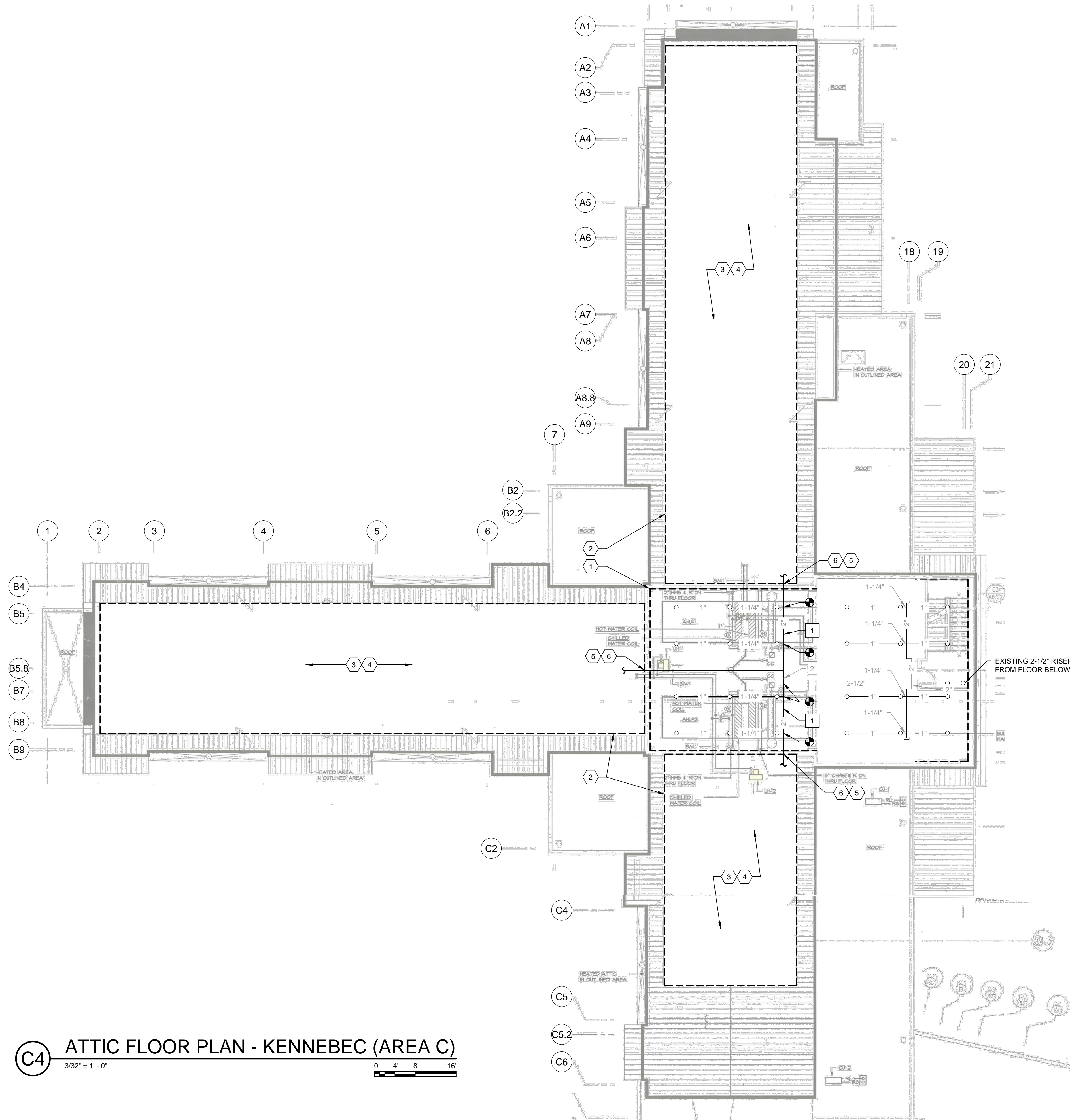
PROJECT NUMBER: 3618198674
PROJECT MANAGER: EAH
A/E OF RECORD: RDJ
DRAWN BY: DMD
CAD FILE: FP-101

TITLE:
ATTIC FLOOR PLAN
SACO (AREA D)

DRAWING NO:
FP-101

SHEET: 3 OF 4

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C4 ATTIC FLOOR PLAN - KENNEBEC (AREA C)
 3/32" = 1' - 0"
 0 4 8 16

NOTES

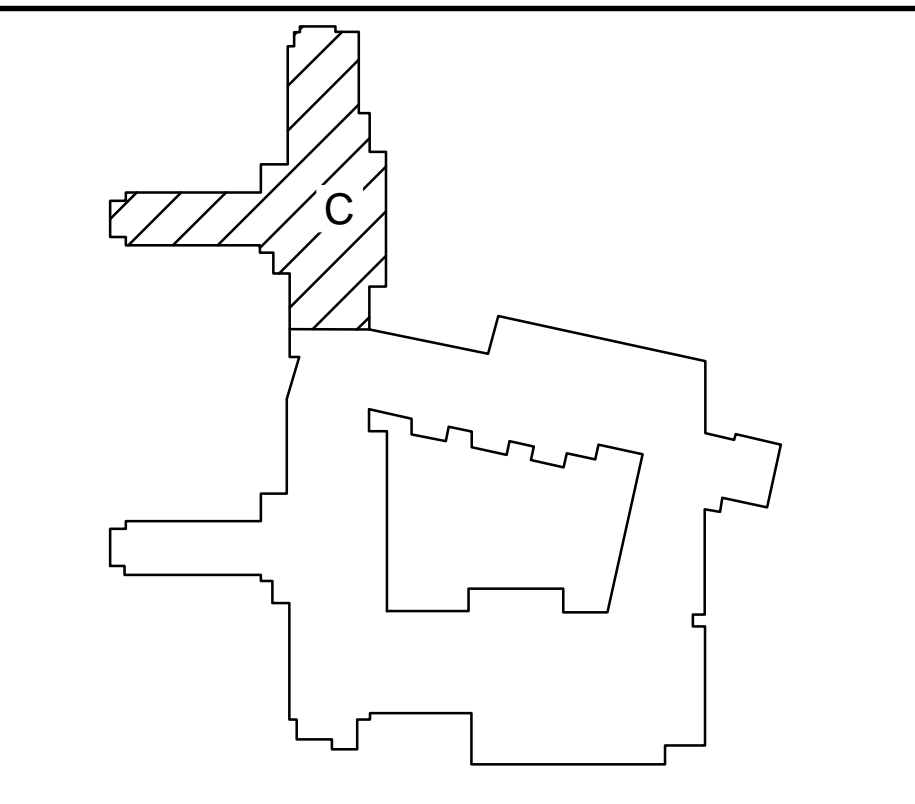
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KEY PLAN

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PROJECT NUMBER: 3618198674
 PROJECT MANAGER: EAH
 A/E OF RECORD: RDJ
 DRAWN BY: DMD
 CAD FILE: FP-102

TITLE:
 ATTIC FLOOR PLAN
 KENNEBEC (AREA C)

DRAWING NO:
FP-102

SHEET: 4 OF 4

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