

LOCUS PLAN

Use Classification: A-3 Construction Type VB

Occupancy - 100 (40 Campers and 60 Staff)

Existing Height: Proposed Height: 17' +/-

Note: Structure is for "seasonal use".

Camp Arrowhead Restoration

Town of Natick 13 East Central Street Natick, MA 01760

Camp Arrowhead Restoration Town of Natick



List of Drawings

Cover G1

C1 Site

Site Details

Existing Floor Plan Existing Structural Section and Details

Proposed Floor Plan

Enlarged Plan A2

Proposed Building Sections
Proposed Elevations А3

Α4

Windows **A5**

Reflected Ceiling Plan **A6**

A7 Interior Elevations

A8 Doors

S1 Structural Framing and Details

Framing and Details

Plumbing Schedule

Under Slab Plumbing

Above Ground Plumbing

Plumbing Riser Diagram

HVAC Plan

H1.2 HVAC Schedule

Electrical Lighting Plan

Electrical Power Plan

Legend and Schedules

Fire Alarm Plan FA1

Attic Fire Alarm Plan

Fire Alarm Legend

Consultants

Mechanical:

AKAL Engineering, Inc. 44 Central Street Berlin, MA 01503

(508) 869-0403

Structural:

M2 Structural Engineering PC 23 Thornbury Way WIndham, ME 04062

(207) 892-0983

Electrical:

VGNA Inc.

541 Main Street #420

South Weymouth, MA 02190

(781) 335-4200

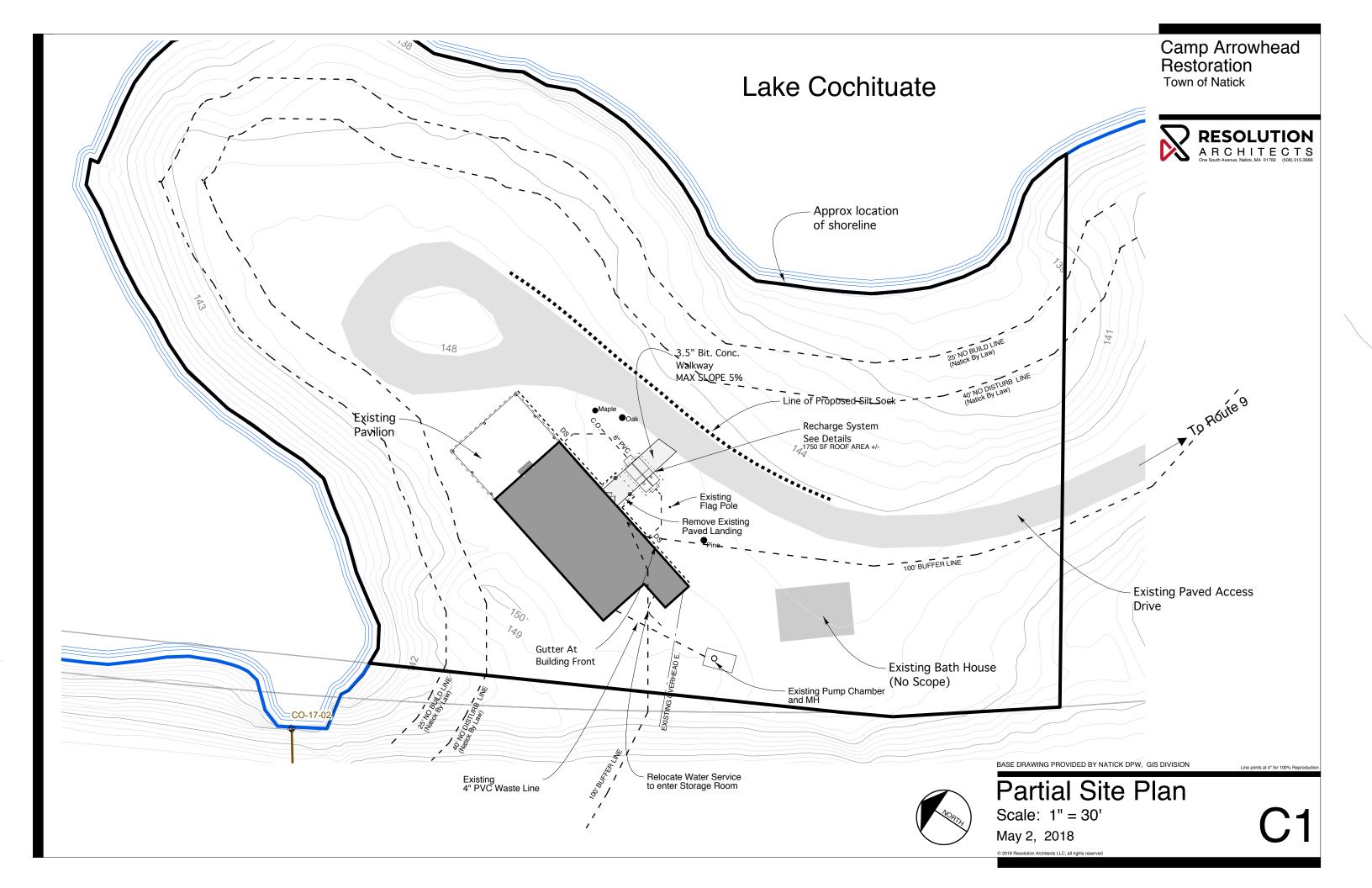
BID SET

Cover

No Scale May 2, 2018

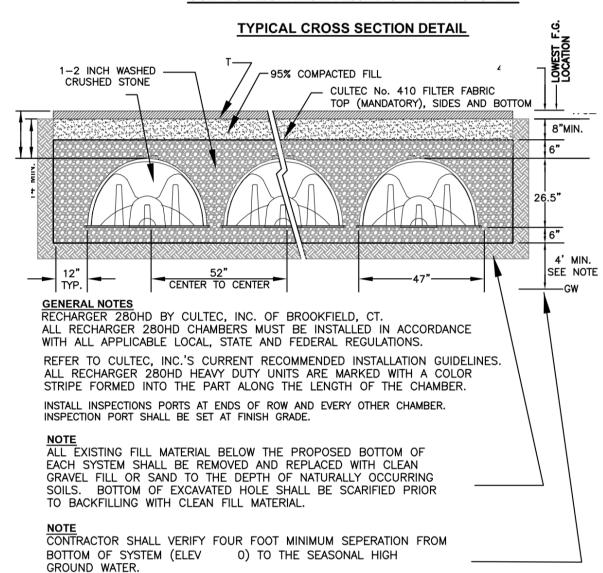
Code Summary

Existing Enclosed Area: 2,067 SF Proposed Enclosed Area: 2,067 SF



UNDERGROUND DRAINAGE SYSTEM DETAIL

CULTEC RECHARGER 280HD CHAMBER SYSTEM



Storage Volume Calculation

Roof Area: 1750 SF Rv = 1" rainfall x Roof Area Rv = 1" x 1750 SF Rv = 145.8 CF

Static Storage Recharge Volume Provided

Provide 4 Units of Clutec Rechargers 280 imbedded in 3/4" Washed Crushed Stone

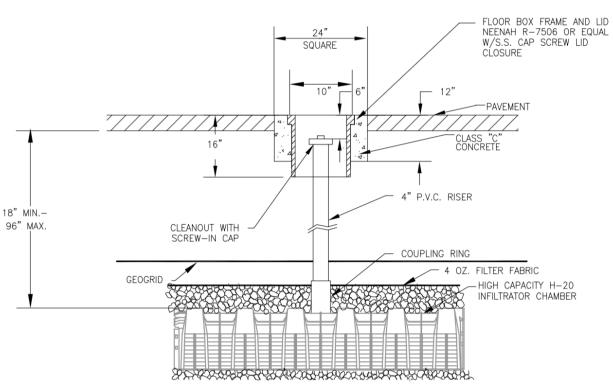
Storage Capacity of Recharger 280 at 24 inch depth:
Unit Capacity at 24 inch = 6.01 CF / FT
Stone Capacity (40% voids) = 0.73 CF / FT
Total Capacity: 6.74 CF / FT

Provide 2 Rows, 2 Units each per row = total of 4 Units Rv Provided = 4 Units x 7 feet / unit x 6.74 CF/Ft = 188.7

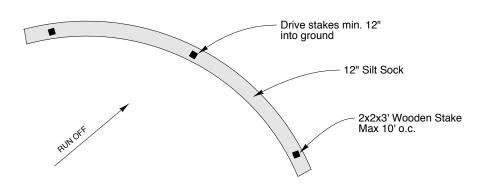
INSPECTION PORT DETAIL

NOT TO SCALE

Camp Arrowhead Restoration Town of Natick







Silt Sock Intstallation

Notes:

- By Filtrexx or approved equal.
- 2. Inspect and repair within 24 hours of each rainfall.
- Contractor shall remove sediment when depth reaches 1/2 of the effective height of the silk sock.
- 4. Maintain Silt Sock until the end of construction activity.

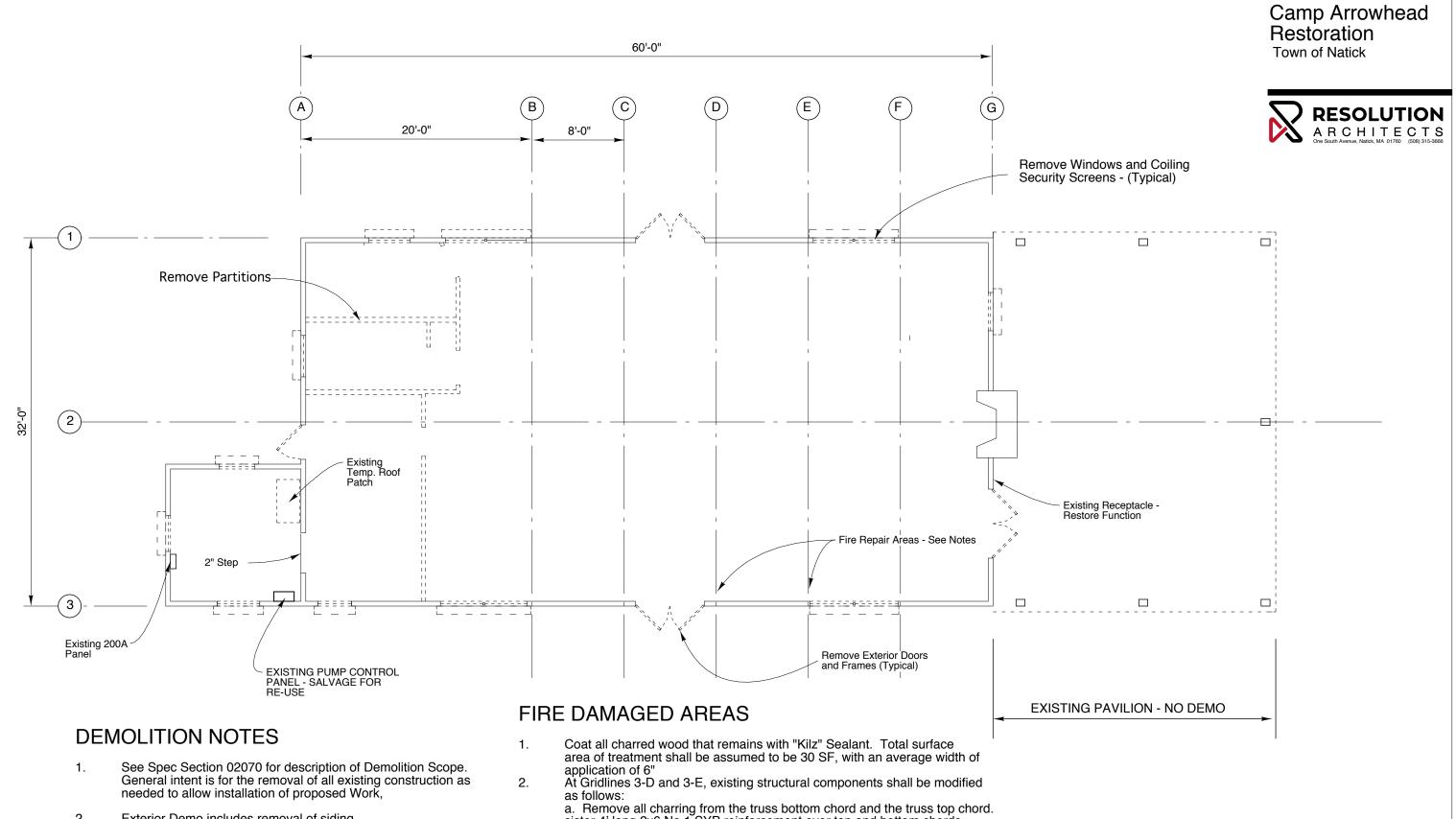
Line prints at 4" for 100% Reproduction

Site Details

Scale: None May 2, 2018

C2

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- Exterior Demo includes removal of siding.
- 3. Provide all necessary temporary shoring.
- Coordinate slab demo with Plumbing. 4.
- Existing Ceiling Height is 8' 1" +/-.

sister 4' long 2x6 No 1 SYP reinforcement over top and bottom chords, preserving existing bolted connection at the plate. Remove the existing spacer at the bottom chord. Locate reinforcement on the side of the existing spacer.
b. Replace the diagonal braces in their entirety, extending from the wall studs to the top chord, repeating existing nailing pattern. (Four nails each wall stud, bottom chord and top chord)

Remove fire damaged roof sheathing, and replace and infill other damaged areas with three – 4x8 panels, thickness to match existing.

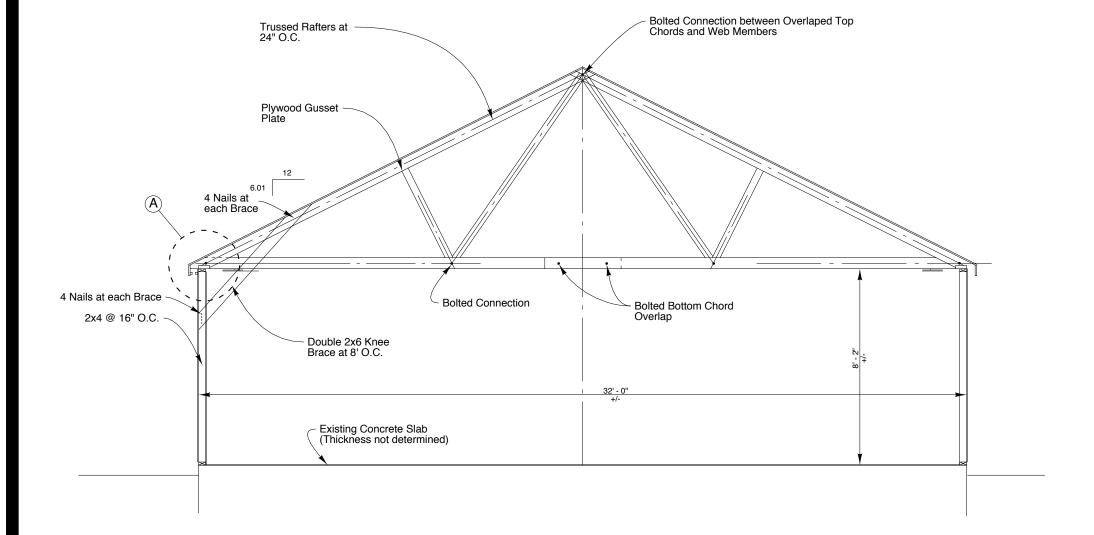
Shore to support remaining framing during structural repairs.

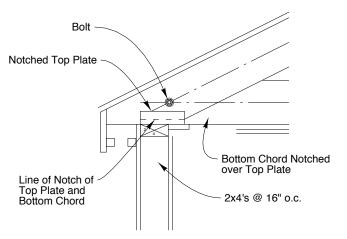
Existing First Floor Plan

Scale: 1/8" = 1' - 0"

Camp Arrowhead Restoration Town of Natick



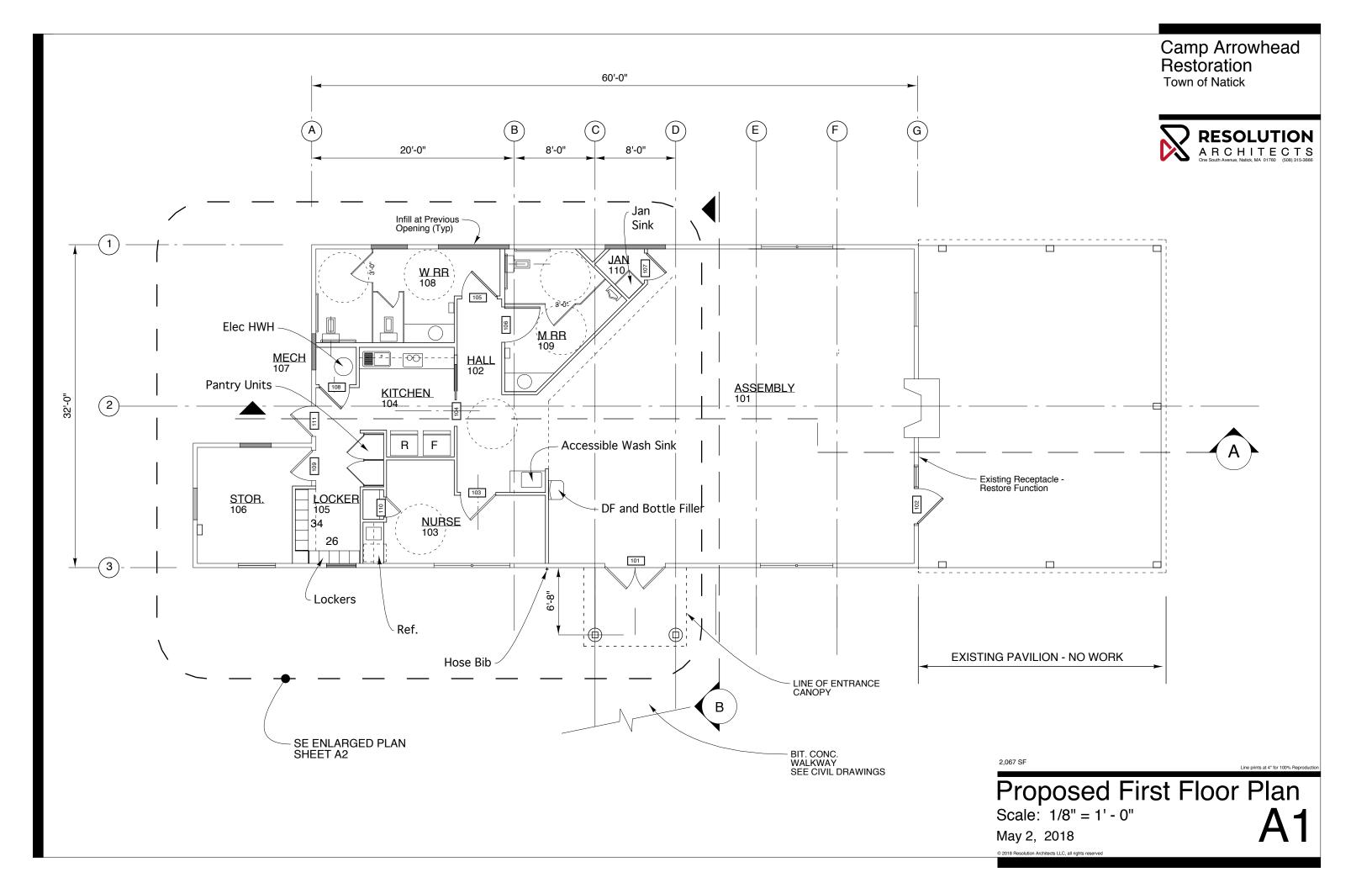


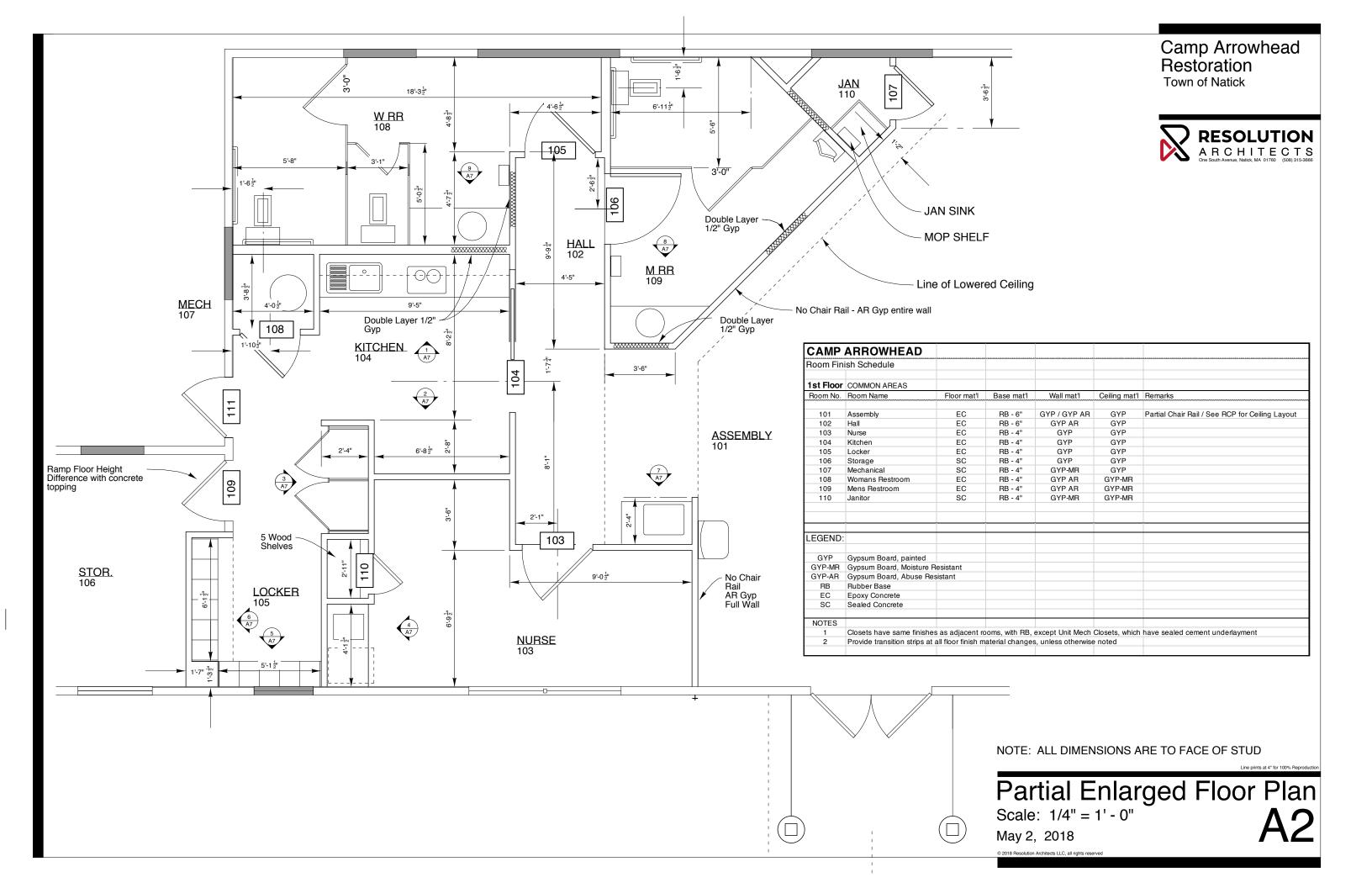


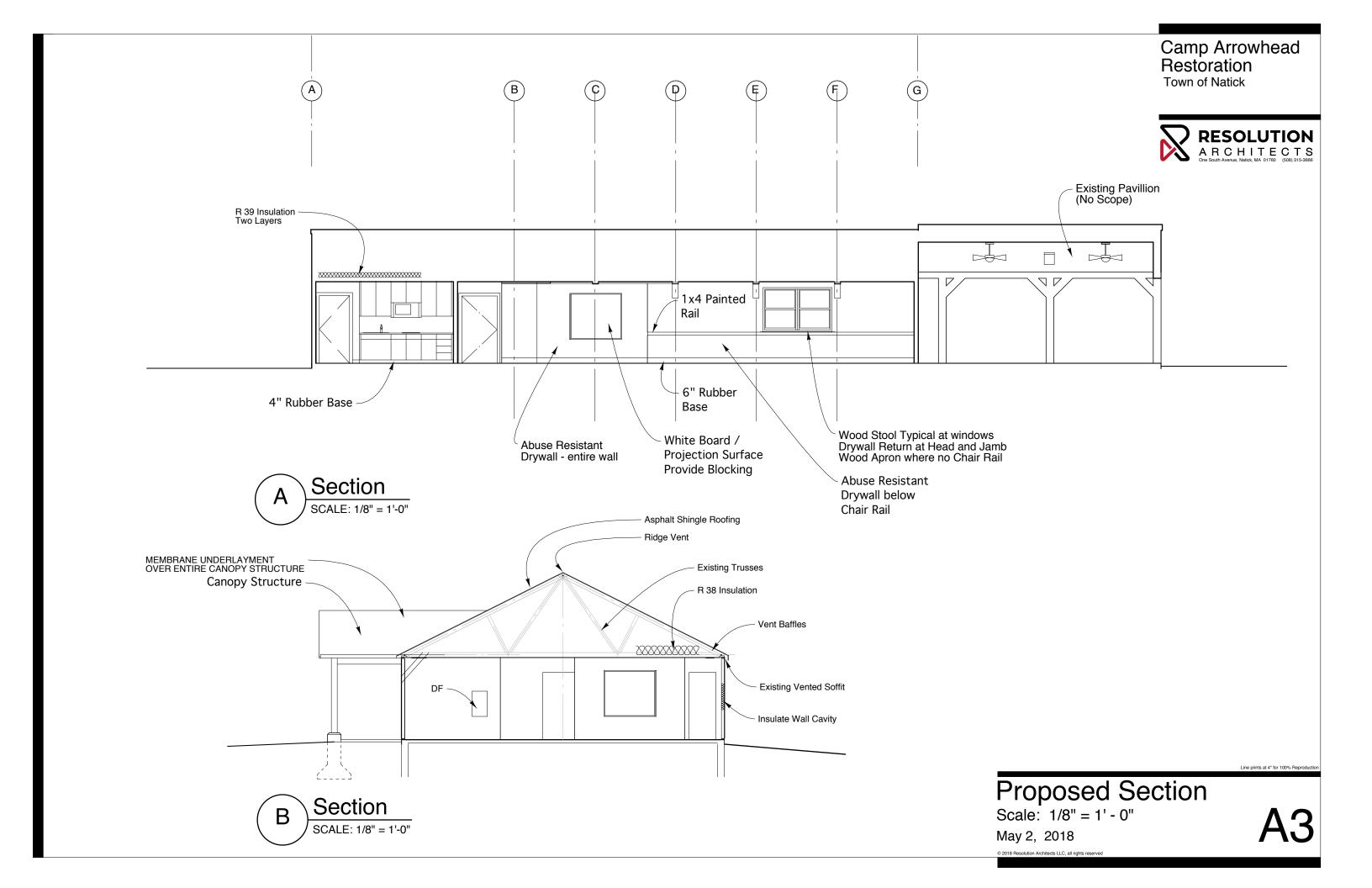


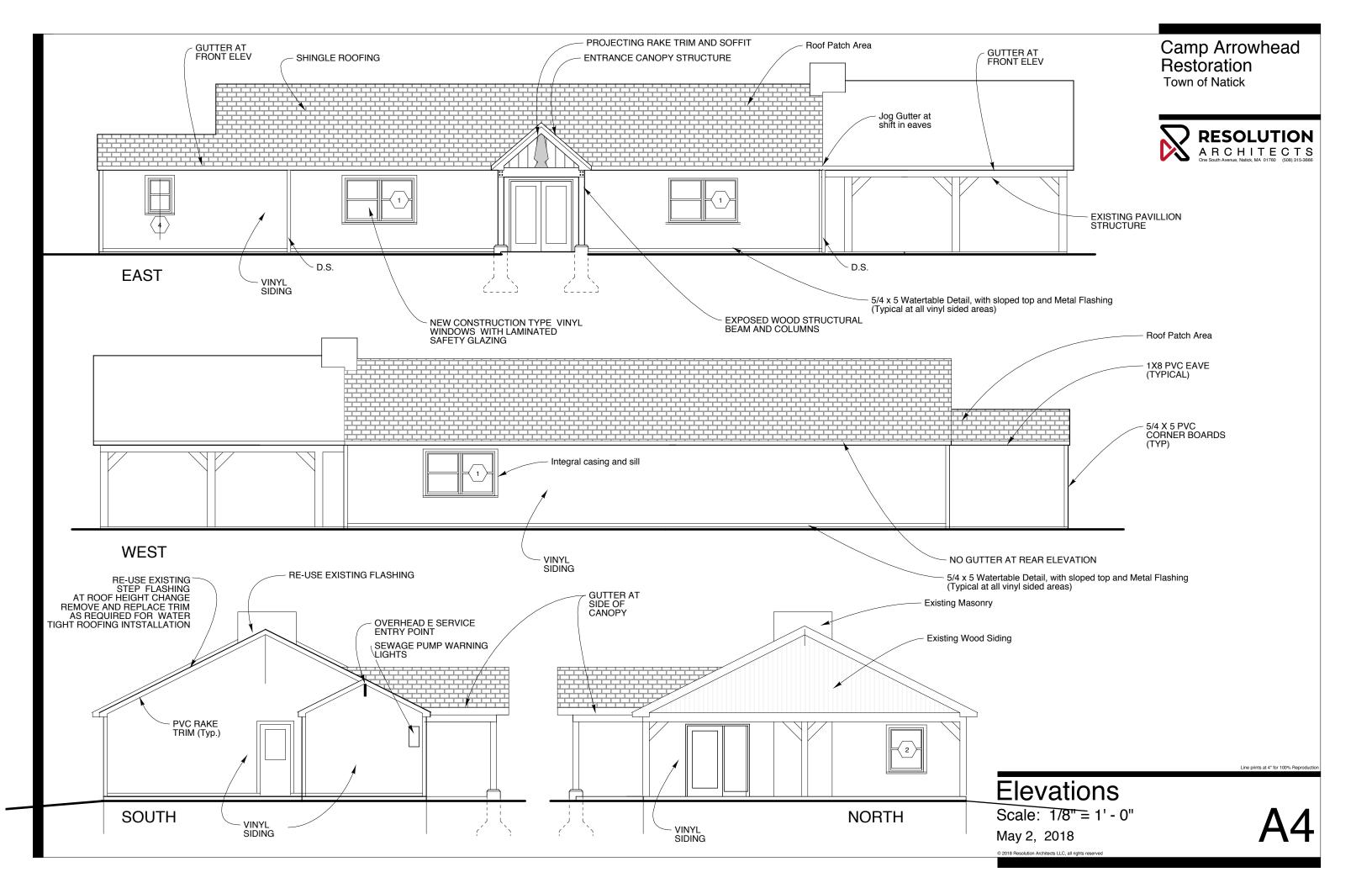
Existing Structural Section SCALE: 1/4" = 1' - 0"

Existing Structural Section Scale: 1/4" = 1' - 0" May 2, 2018 Structural Section XS1



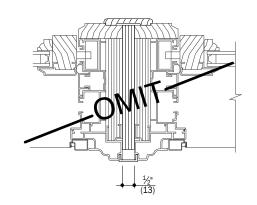






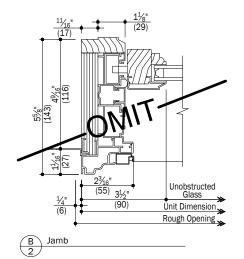






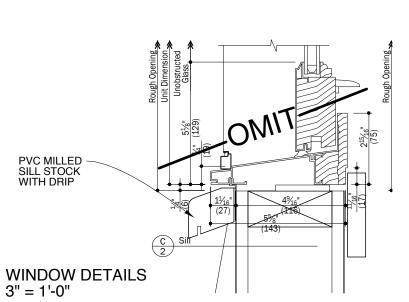
FACTORY MULLED DETAIL - 1/2" x 5-3/16" LVL JOIN





Membrane Weather Barrier

Alum Drip Cap 5/4 x 4 PVC Trim



NOTE:

Existing or New Header - See Framing

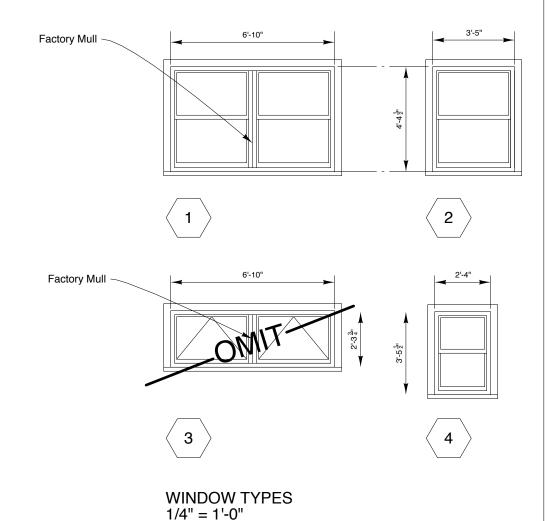
1x4 Painted Wood Trim

Back Seal window

WINDOWS SHALL BE VINYL NEW CONSTRUCTION TYPE WITH DRYWALL RETURNS AT JAMB AND HEAD AND PAINTED WOOD STOOL AND APRON AT INTERIOR.

EXTERIOR SHALL HAVE INTEGRAL CASING AND SILL, WITH RECEPTORS FOR VINYL SIDING

INSTALL WITH PERMIETER FLASHING AND SEALING AS PER MANUFACTURER'S RECOMMENDATIONS



Notes:

Flash all openings with flexible membrane flashing, as per manufacturer'e recommendations.

Seal Air Barrier to membrane flashing.

Field Verify all existing and new R.O. dimensions

174 = 1-0

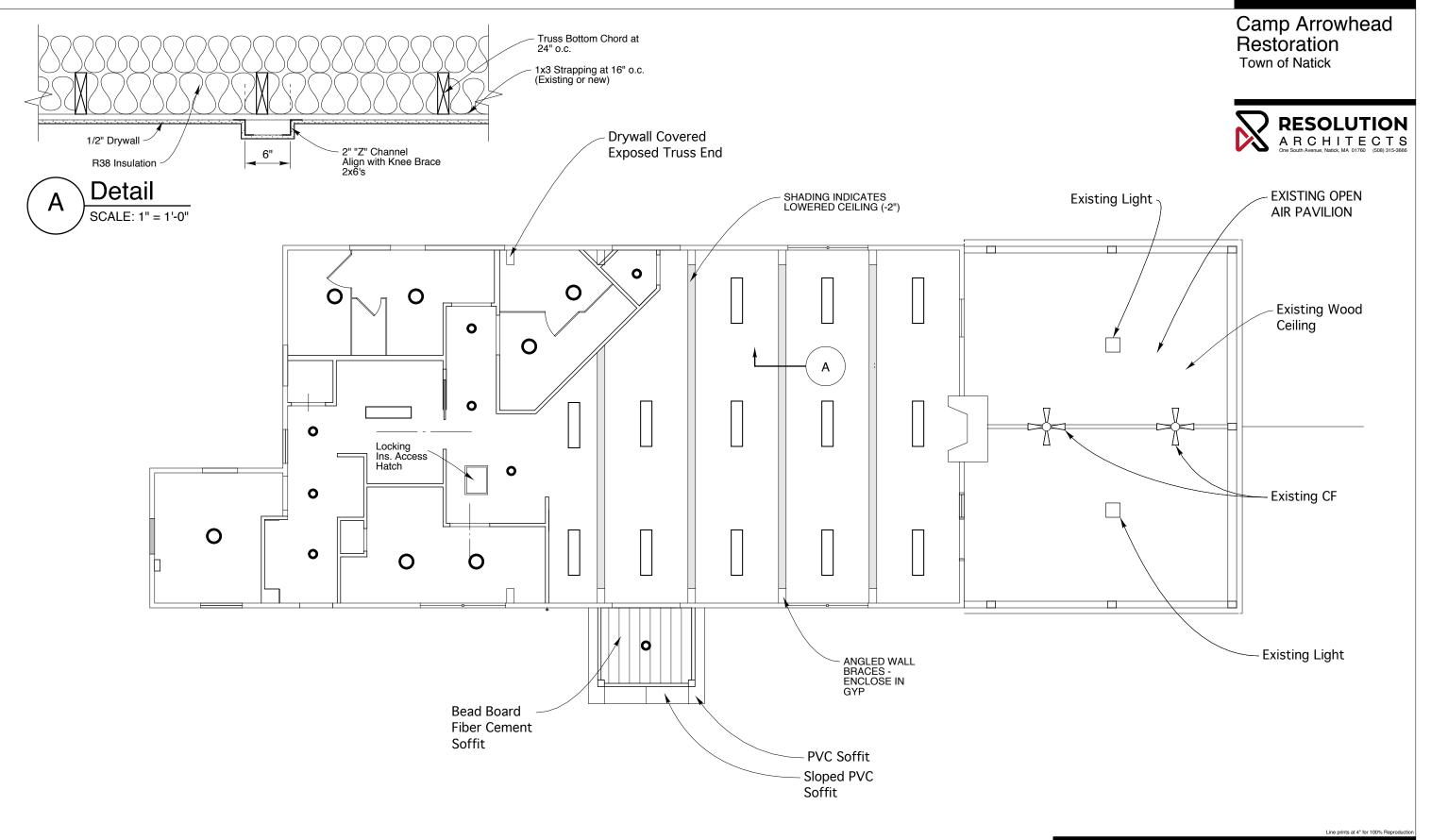
Scale: As Noted

Windows

May 2, 2018

A5

Line prints at 4" for 100% Reprod

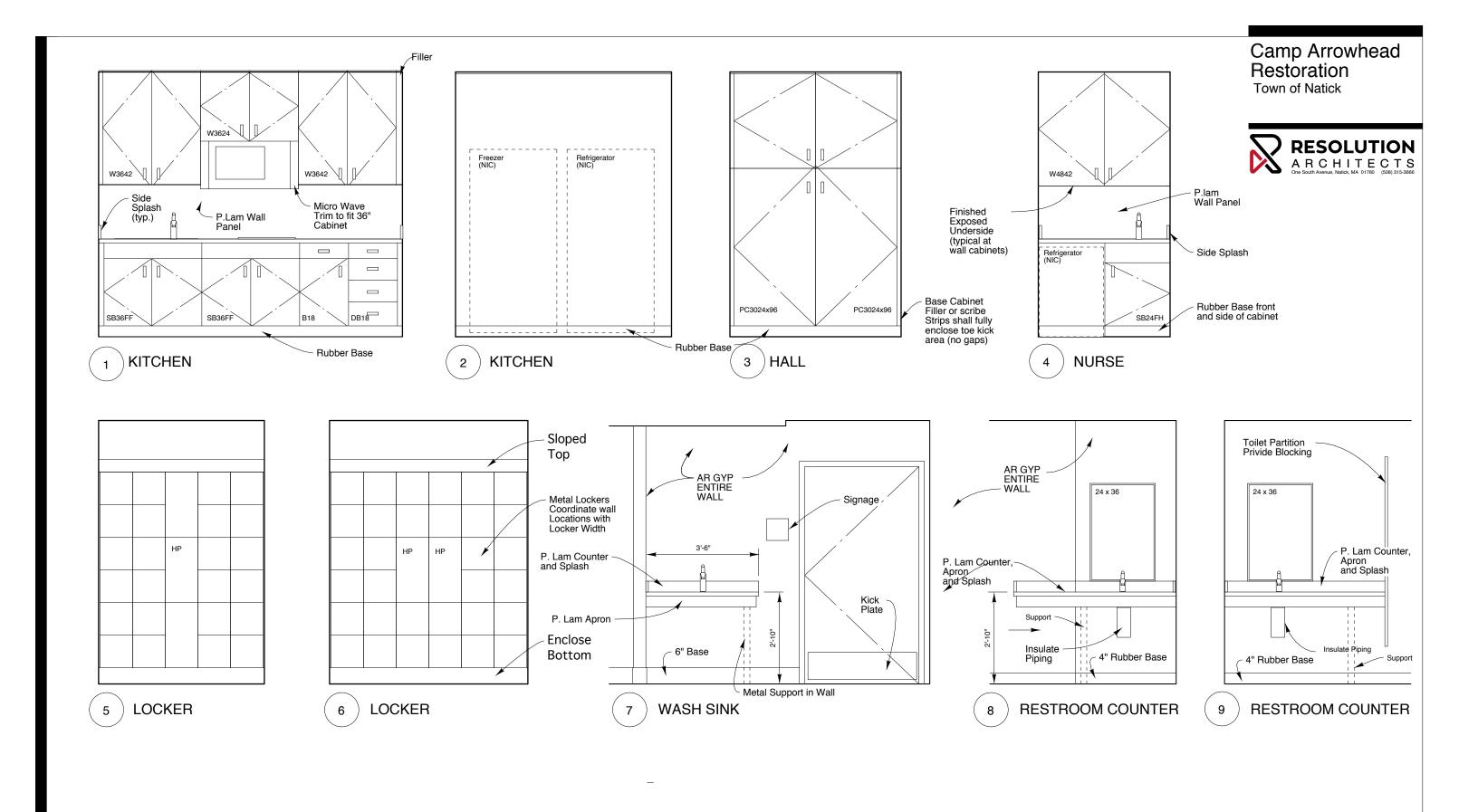


Reflected Ceiling Plan

Scale: 1/8" = 1' - 0"

May 2, 2018

A6



NOTE:

Conform to all accessibility mounting height requirements

Provide Blocking for all equipment and accessories

Interior Elevations

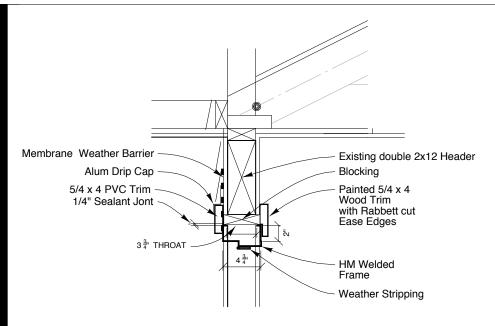
Scale: 3/8" = 1' - 0"

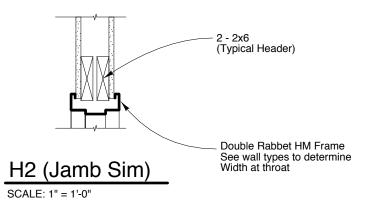
May 2, 2018

A7

Line prints at 4" for 100% Reprod

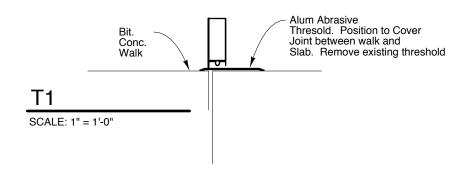
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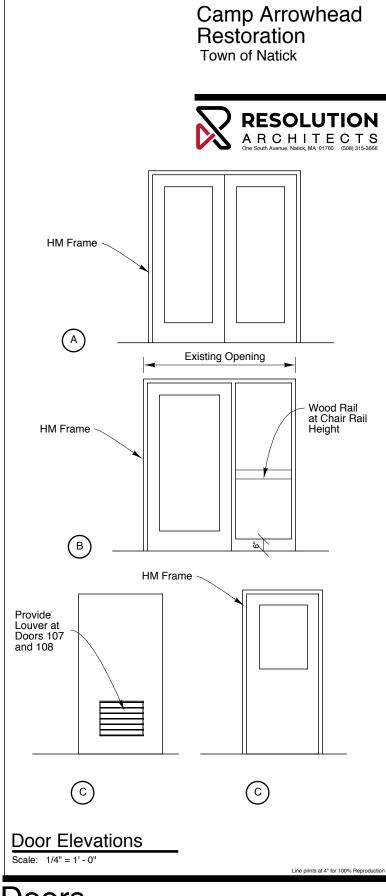


H1 (Jamb Sim)

SCALE: 1" = 1'-0"



	Location / Type		oor Siz	:e			Materia	al					Details	Frame Type Hdw		dw.		
Door#		Width	Height	Thickness	Metal	Wood Panel	Solid-Core Wood Flush	Hollow-Core Flush Wood	Reserved	Label (Min)	Glazing	Elevation	Head, Jamb, Sill Metal	Metal	Wood	Keying	Group #	Comments
	Main Entry - Paired		7'-0"		X						Х		H1 / T1	Х			1A	
	Side Entry	3'-6"	7'-0"		Χ		l				Х	В	H1 / T1	X			1B	
	Nurse	3'-6"	_	1-3/4"			Χ					С	H2	Х			2	
	Kitchen - Pocket	3'-6"	6'-8"	1-3/4"			X					С	H2	Х				Pocket Door Frame with ADA compliant lockset
	Girls Restroom	3'-6"	6'-8"	1-3/4"		1	X					С	H2	X			5	
	Boys Restroom Janitor	3'-6" 2'-8"	6'-8" 6'-8"	1-3/4" 1-3/4"		-	X					C	H2 H2	X			5	Knurled Lever Handle
	Mechanical	3'-0"	6'-8"			l	X			l		C	<u>п</u> 2 Н2	X			4	Knurled Lever Handle Knurled Lever Handle
	Storage	3'-0"		1-3/4"		 	X					C	H2	X			6	Knurled Lever Handle Knurled Lever Handle
	Closet	2'-6"	6'-8"			<u> </u>	X					C	H2	X			6	Triunca Level Hariaic
	Side Entrance	3'-0"		1-3/4"	Х		<u> </u>				Х	D	H1 / T1	X			1B	



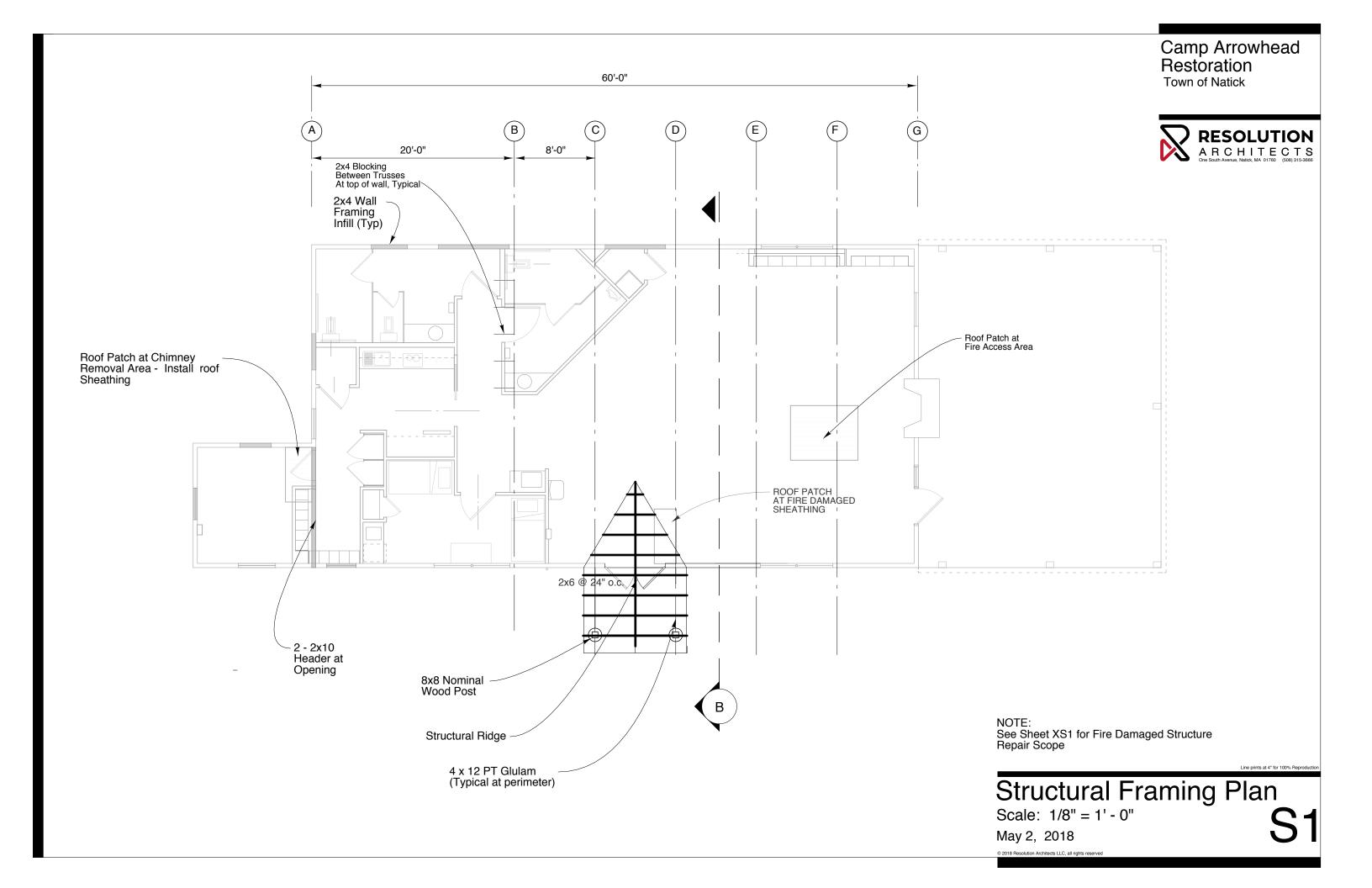
Doors

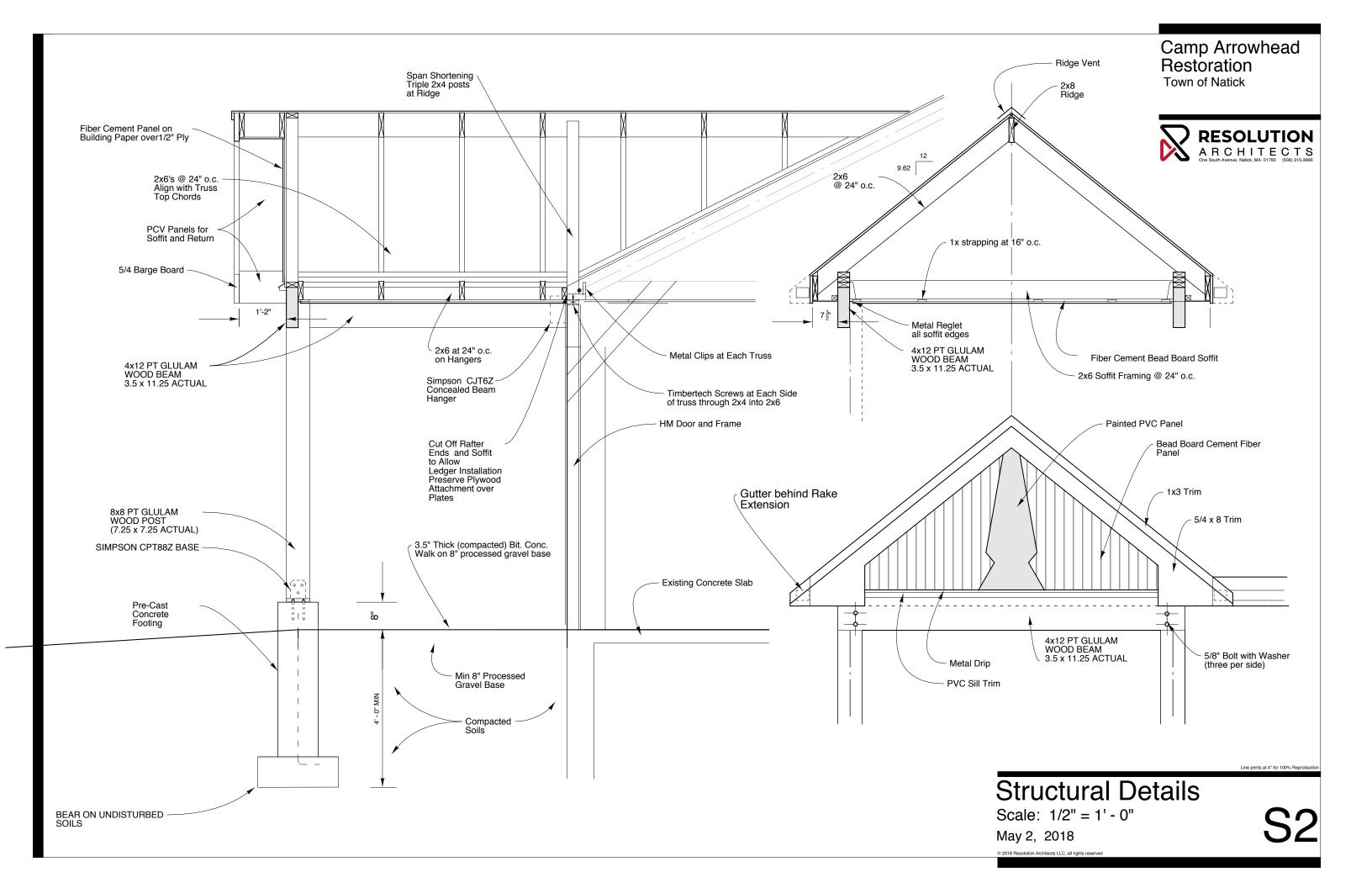
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May 2, 2018

A8

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PLUMBING FIXTURE SCHEDULE												
	PLU	MBING FIXI	URE SU.	<u> </u>	<u>L</u>							
FIXTURE NUMBER	SYMBOL		WASTE	VENT	COLD	HOT	REMARKS					
P-1 P-1A	9	WATER CLOSET	4"	2"	1/2"		P-1 IS ADA COMPLIANT					
P-2	P	LAVATORY	4"	2"	1/2"	1/2"	P-2 IS ADA COMPLIANT					
P-3		URINAL	2"	1½"	3/4"		P-3 IS ADA COMPLIANT					
P-4 P-4A	·	SINK COUNTER TOP	1½"	1½"	1/2"	1/2"						
P-5	٠	MOP SINK	3"	1½"	1/2"	1/2"						
P-6	٠	COUNTERTOP SINK	2"	1½"	1/2"	1/2"						
P-7		DRINKING WATER COOLER	1½"	1½"	1/2"							

<u>LEGEND</u>
- DOUBLE LINE INDICATES BELOW GRADESAN
==== V VENT PIPNG BELOW GRADEV V VENT PIPING ABOVE GRADECW CW COLD WATERHW HW HOT WATER
FCO FLUSH FLOOR CLEANOUT
4 _CO_ CLEANOUT
TP TRAP PRIMER
SA SHOCK ABSORBER (WATER HAMMER ARRESTOR (W/ BALL VALVE SHUT OFF VALVE)
- SHUT-OFF VALVE
RPBF REDUCED BACKFLOW PREVENTER

Camp Arrowhead Restoration

Town of Natick



IKAL<u>Emglimeerling Ilmo.</u> 44 Central St. Unit 4

> Berlin, MA. 01503 Telephone - (508) 869-0403 Fax - (508) 869-2891 www.akalengineering.com

GENERAL PLUMBING NOTES

- 1. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE GENERAL CONTRACTOR.
- 2. REFER TO ARCHITECTURAL PLANS FOR HEIGHT OF CEILING AND COORDINATE ALL WORK WITH ALL OTHER CONTRACTORS PRIOR TO START.
- COORDINATE WITH ARCHITECT FOR PLUMBING FIXTURES LOCATION.
- 4. GENERAL NOTES, SYMBOLS LIST AND DETAILS ARE APPLICABLE TO ALL DRAWINGS.
- 5. DRAWINGS ARE DIAGRAMMATIC: THIS CONTRACTOR SHALL DETERMINE EXACT LOCATIONS AND SIZES OF SYSTEMS AND COMPONENTS IN FIELD.
- 6. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE LATEST PLUMBING CODE AND ALL APPLICABLE LOCAL CODES. ALL WORK SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT (ADA)
- 7. ANY INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER, AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF WORK.
- 9. NO WORK SHALL BE INSTALLED IN VIOLATION OF ANY GOVERNING CODES. ANY WORK SHOWN ON THE DRAWINGS WHICH IS IN VIOLATION OF SUCH CODES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK.
- 10. ALL PIPING PENETRATING CEILINGS AND WALLS SHALL BE INSTALLED WITH ESCUTCHEONS AT THE PENETRATION. ALL PIPING PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE FLASHED IN AN APPROVED MANNER AND SHALL BE SEALED WEATHER TIGHT.
- 11. MANUFACTURERS' MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS. INSTALLATION SHALL ADHERE TO MANUFACTURERS' RECOMMENDATIONS.

- 12. TOP OF ALL FLOOR DRAINS SHALL BE SET FLUSH WITH FINISHED FLOOR. ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING STRUCTURE OR COMPONENTS.
- 13. ALL PLUMBING EQUIPMENT, PIPING, INSULATION, ETC., INSTALLED IN HVAC PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE AND COMBUSTIBILITY.
- 14. PROVIDE SHUTOFF VALVES ON ALL BRANCH PIPING AND ON ALL SUPPLIES TO INDIVIDUAL FIXTURES AND EQUIPMENT. PROVIDE BALL VALVES ON ALL WATER MAIN BRANCHES IN CORRIDORS AND WHERE INDICATED ON DRAWINGS.
- 15. PROVIDE BALANCING VALVES, BALL VALVES AND CHECK VALVES ON ALL HOT WATER RETURN BRANCHES, AS REQUIRED, TO BALANCE RETURN SYSTEM.
- 16. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
- 17. PROVIDE VENTS AT HIGH POINTS IN PIPING SYSTEMS AND DRAIN VALVES AT LOW POINTS. INSTALL SUPPLY PIPING SO AS TO ALLOW SEASONAL DRAINING.
- 19. PROVIDE GAUGE FITTINGS AND THERMOMETER WELL AT HOT WATER SUPPLY AND RETURN BRANCHES AND AT PUMP INLETS AND OUTLETS.
- 20. RELOCATE EXISTING WATER SERVICE ENTRY POINT
- 21. EACH POTABLE WATER SYSTEM (COLD AND HOT WATER) SHALL BE CLEANED AND DISINFECTED BY THIS CONTRACTOR. PROVIDE TESTING AT 6 LOCATIONS, THREE TEST AT EACH LOCATION.(TOTAL 18 TESTS)

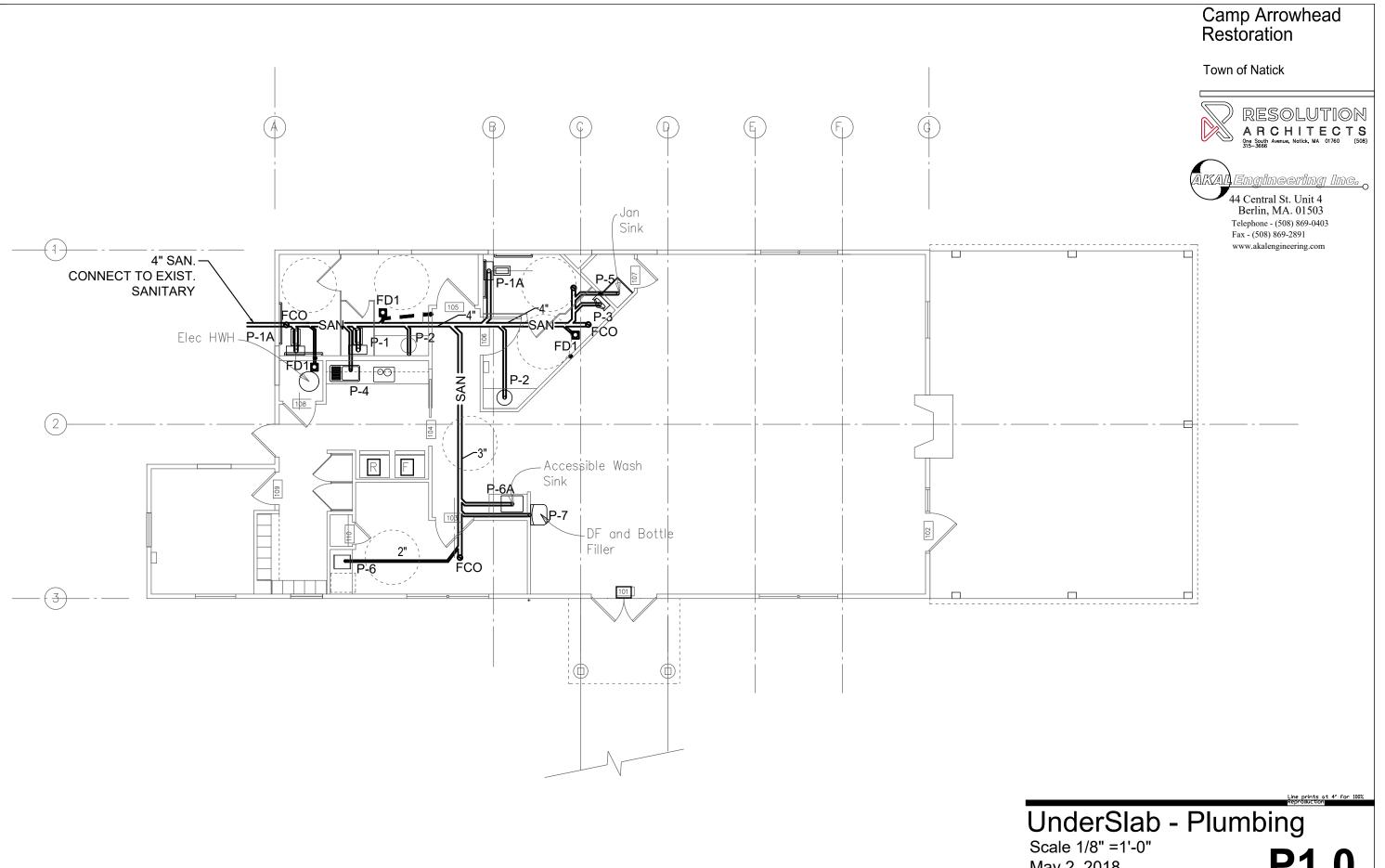
Line prints at 4" for 100%

Plumbing Notes and Schedule

Scale : None May 2, 2018

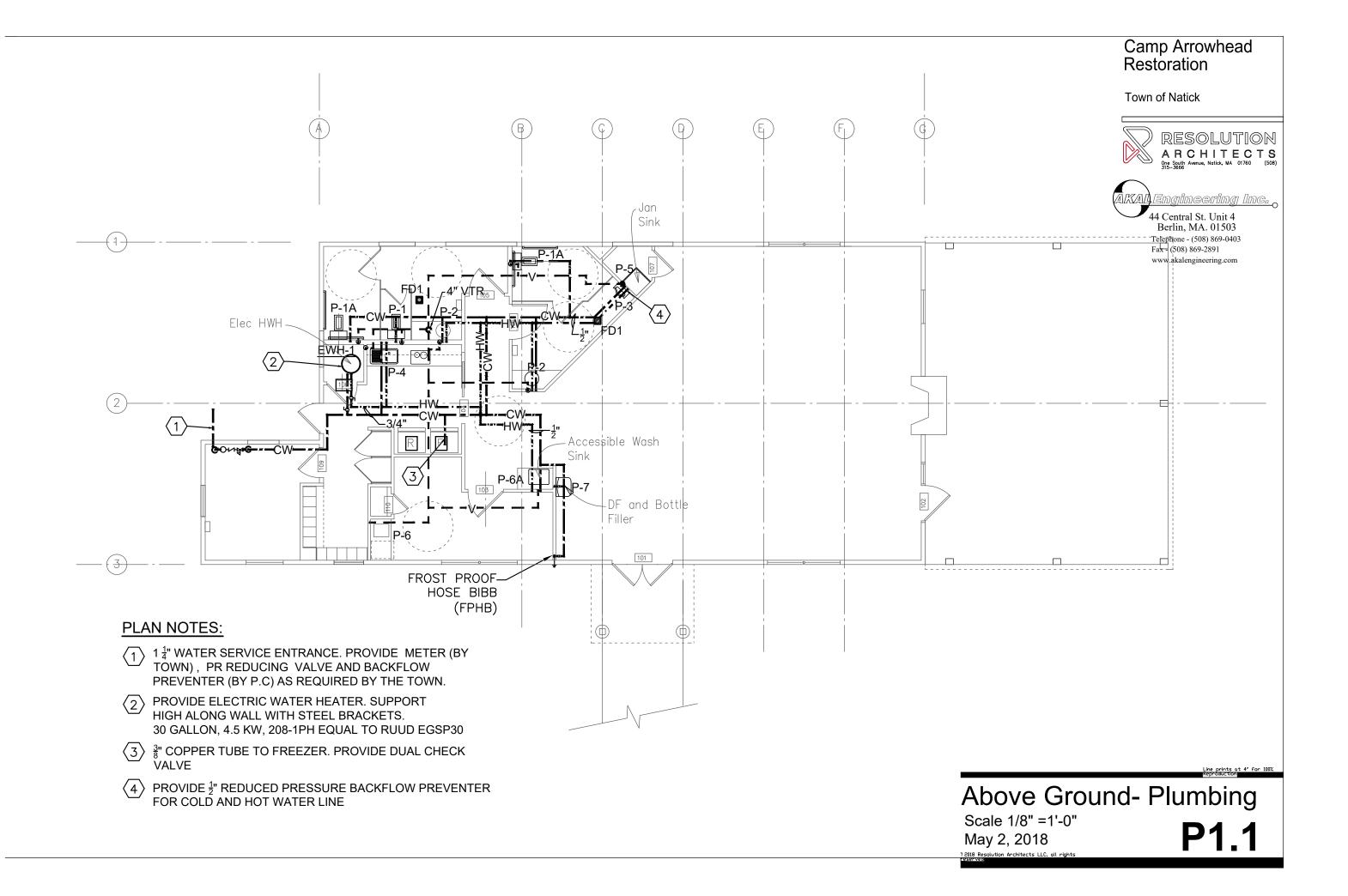
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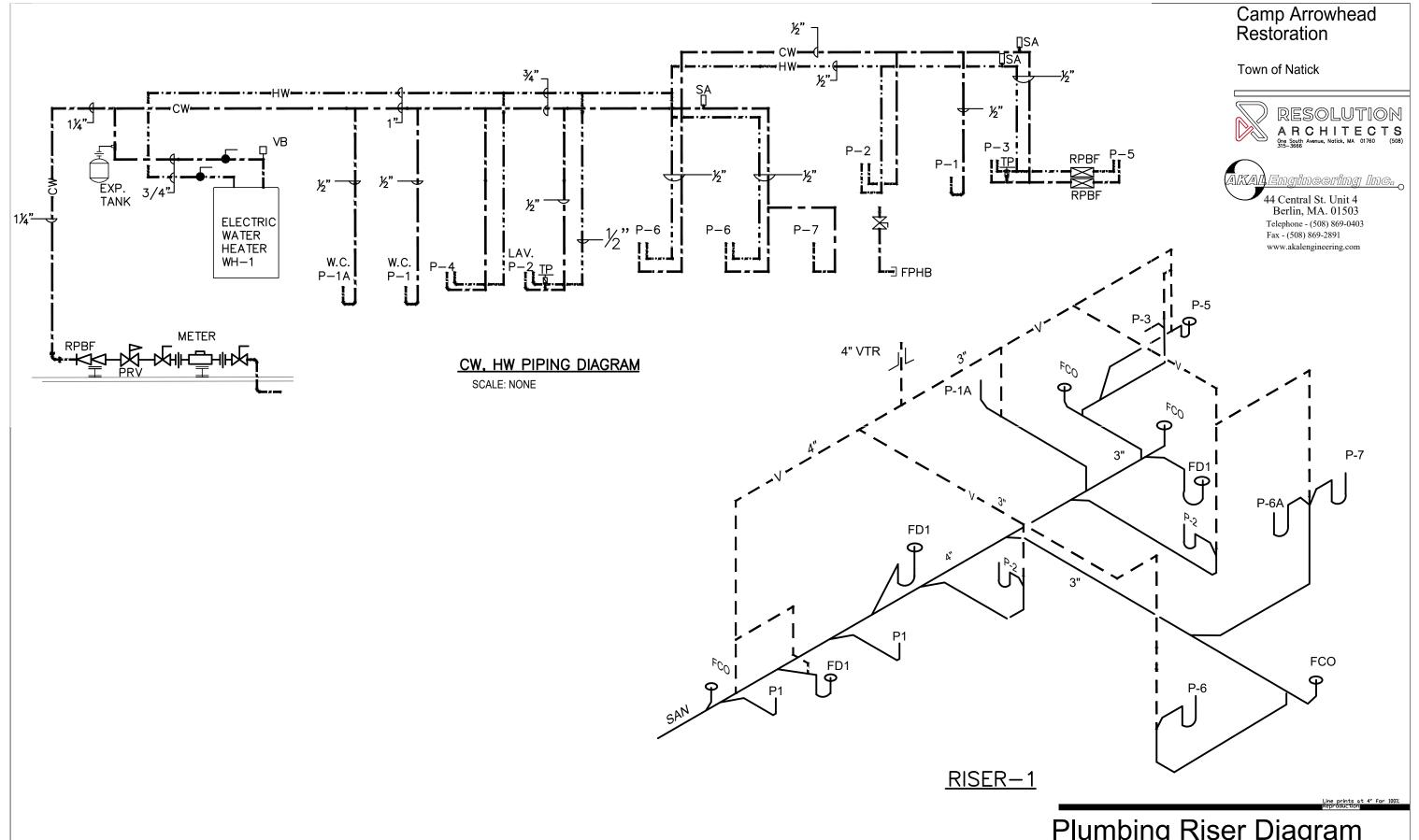
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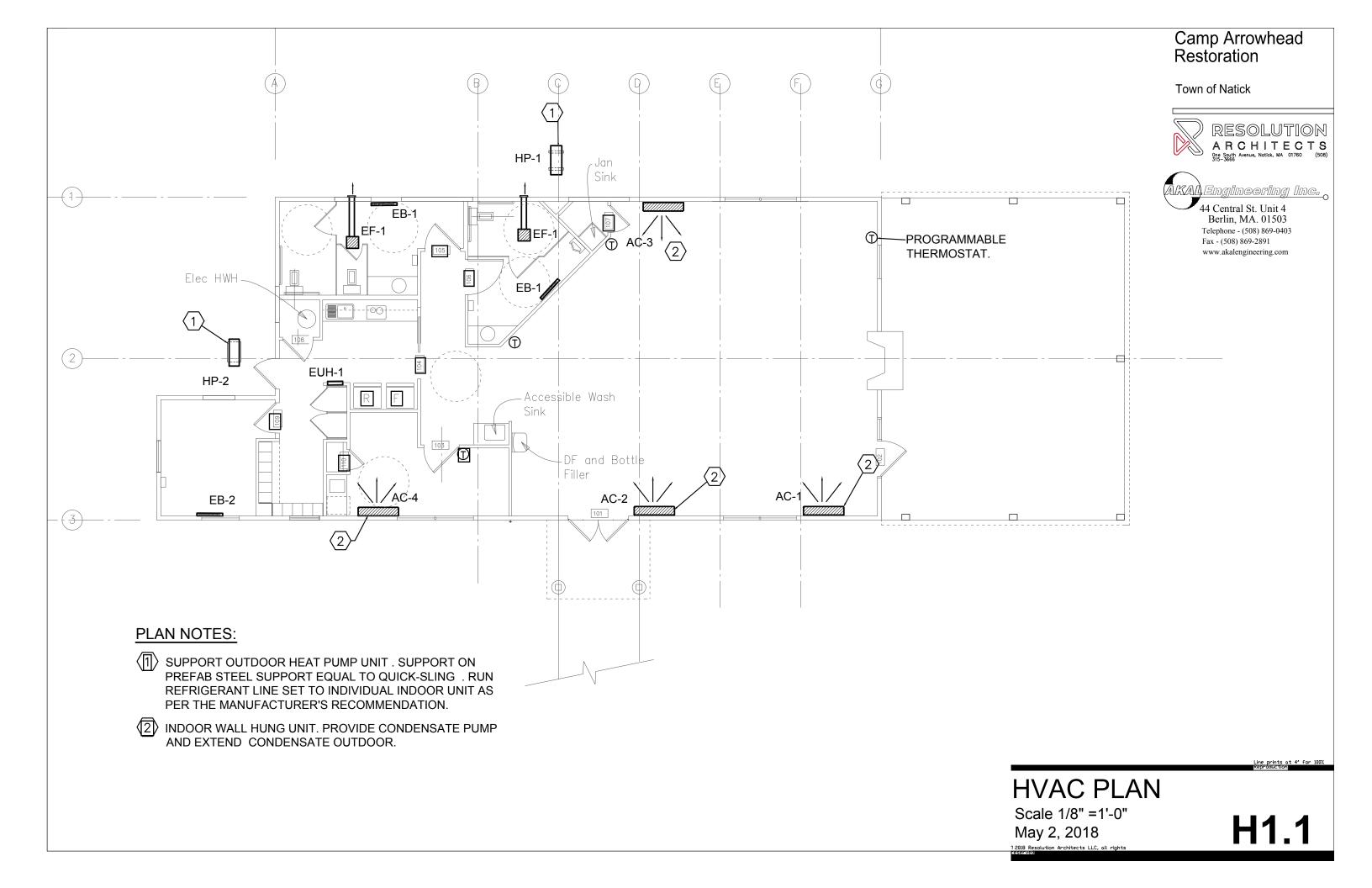




Plumbing Riser Diagram

Scale - None May 2, 2018

P2.0



	DUCTLESS A/C UNIT SCHEDULE													
INDOOR UNIT	OUTDOOR UNIT	# OF ZONES	COOLING	HEATING	INDOOR	MANUFA	ELECTRICAL		REMARKS					
(TAG)	(TAG)	ZUNES	(MBH)	(MBH)	TYPE	INDOOR	OUTDOOR	VOLTAGE	МСА					
						FUJITSU	FUJITSU							
AC-1			12		WALL MTD	ASU12RLF1				208V-1PH		1		
AC-2	HP-1	3	12		WALL MTD	ASU12RLF1	AOU36RLF	208V-1PH	30	1				
AC-3			12		WALL MTD	ASU12RLF1		208V-1PH	08V-1PH					
AC-4	HP-2	1	12		WALL MTD	ASU12RL2	AOU12RL2	208V-1PH	9	1				

1) PROVIDE WIRED REMOTE THERMOSTAT CONTROLLER.

NOTE:

CONTRACTOR SHALL INSTALL AND PRESSURE TEST REFRIGERANT PIPING AS PER THE MANUFACTURERS INSTRUCTION. PROVIDE CONNECTION JOINT FOR TWO UNIT CONNECTION. PROVIDE REFRIGERANT LINESET AS REQUIRED. PROVIDE CONDENSATE PUMP AND EXTEND DRAIN TO OUTDOOR.

OTHER ACCEPTABLE MANUFACTURER ARE DAIKIN, PANASONIC OR EQUAL

EXHAUST FAN SCHEDULE										
MARK	SERVING	C.F.M.	S.P. (INCHES)	MOTOR POWER	V-PH-HZ	MANUFACTURER	MODEL	NOTES		
EF-1 EF-2	BATHROOM FAN	190	0.150	45 WATTS	120-1-60	PANASONIC WHISPER GREEN	FV-20VQ3	12		

NOTES: (1) INTERLOCK WITH LIGHT SWITCH AND DELAY TIMER

(2) PROVIDE EXTERIOR WALL CAP

OTHER ACCEPTABLE MANUFACTURER ARE GREENHECK, COOK OR EQUAL

ELEC	ELECTRIC BASEBOARD HEATER										
MARK	LENGTH	WATTS	BTU	V-PH-HZ	AMPS	MANUFACTURER	MODEL	NOTES			
EB-1	34"	750	2560	208-1-60	3.6	MARLEY	CBD 758	1			
EB-2	28"	500	1700	208-1-60	2.4	MARLEY	CBD 500	1)			

1 UNIT MOUNT THERMOSTAT ASSEMBLY

OTHER ACCEPTABLE MANUFACTURER ARE Q'MARK, CADET OR EQUAL

ELECTRIC UNIT HEATER										
MARK	TYPE	WATTS	BTU	V-PH-HZ	AMPS	MANUFACTURER	MODEL	NOTES		
EUH-1	WALL HEATER	2000	6800	208-1-60	9.6	MARLEY	AWH4408F	1)		

1 UNIT MOUNT THERMOSTAT ASSEMBLY

OTHER ACCEPTABLE MANUFACTURER ARE Q'MARK, CADET OR EQUAL

HVAC SCHEDULE

Scale : None May 2, 2018

H1.2

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Town of Natick

RESOLUTION

Camp Arrowhead

Restoration

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44 Central St. Unit 4

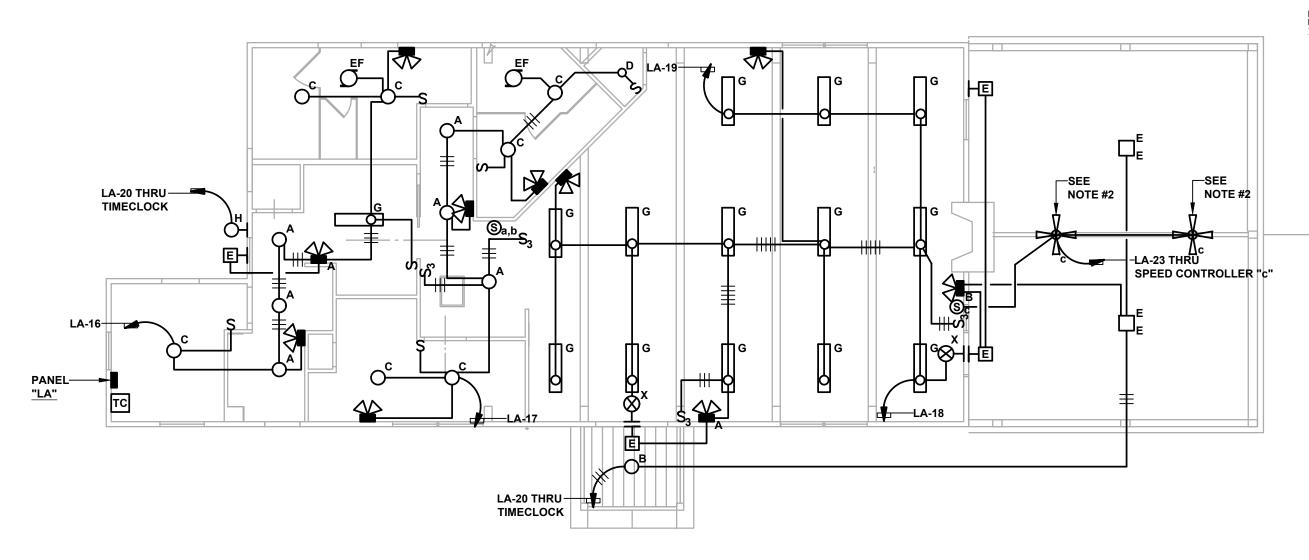
NOTES:

- 1. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR THE EXACT LOCATION OF ALL LIGHTING FIXTURES.
- 2. EXISTING PADDLE FANS SHALL BE REWIRED TO NEW PANEL
- 3. THE ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND WIRE THREE TYPE "F" LIGHTING FIXTURES IN THE ATTIC AND WIRE TO SWITCH LOCATED AT ATTIC HATCH. LIGHTING FIXTURES SHALL BE WIRED TO CIRCUIT LA-21.

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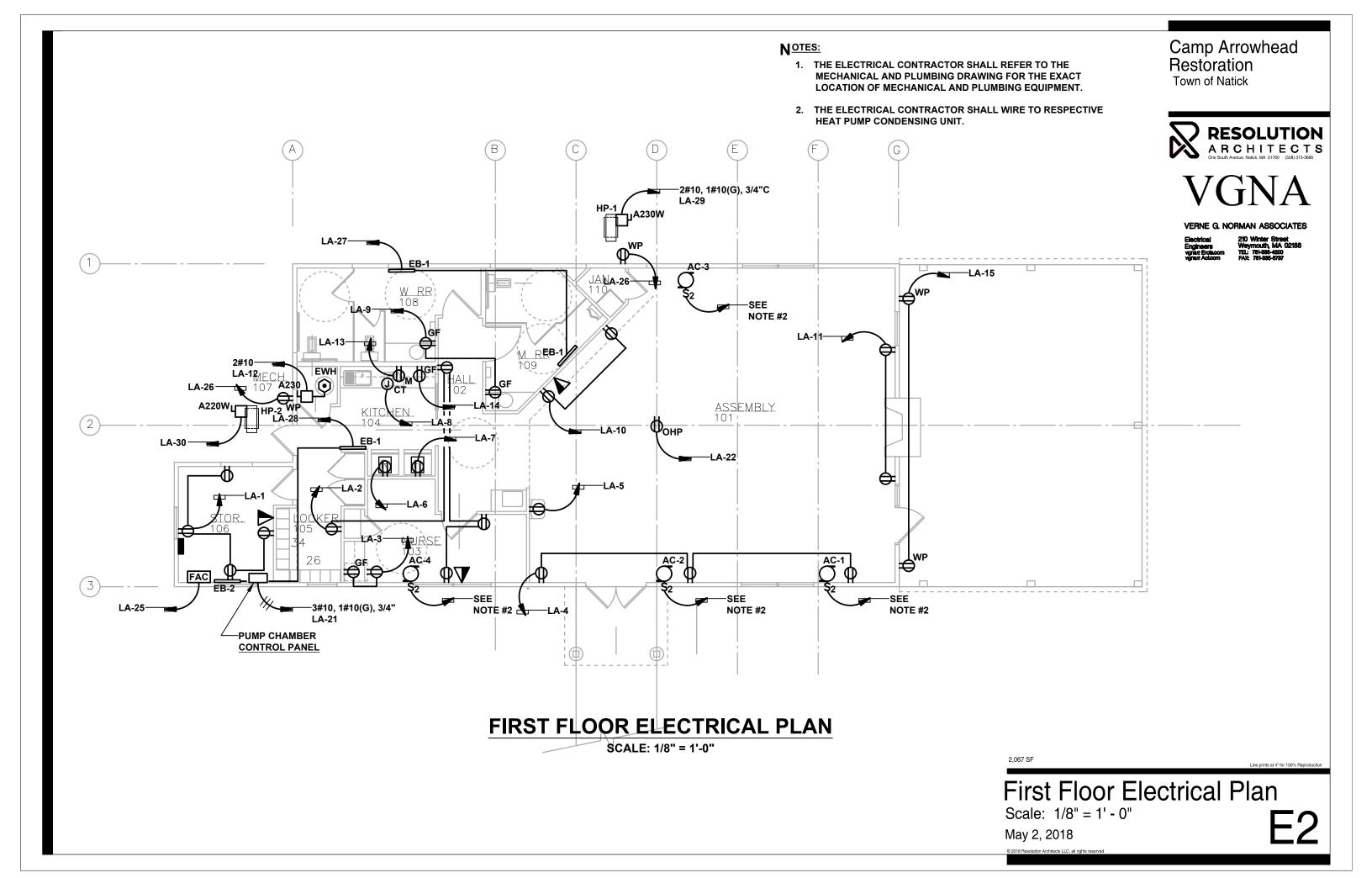




FIRST FLOOR LIGHTING PLAN

SCALE: 1/8" = 1'-0"

First Floor Lighting Plan Scale: 1/8" = 1' - 0"



LEGEND € EWC HOMERUN. ARROWS DENOTES THE NUMBER OF **ELECTRIC WATER COOLER MOUNTED 18" A.F.F.** CIRCUITS AND SLASH MARKS DENOTE THE NUMBER OF #12 CONDUCTORS IN RACEWAY OR CABLE ASSEMBLY. TELEPHONE/DATA OUTLET. RACEWAY OR CABLE ASSEMBLY INSTALLED ① MOTOR (NUMERAL DENOTES HORSEPOWER). CONCEALED. ()^{EF} **EXHAUST FAN** RACEWAY INSTALLED EXPOSED. UNIT HEATER. FLUORESCENT LIGHTING FIXTURE. "A" Ol **DENOTES LIGHTING FIXTURE TYPE.** SUBSCRIPT "b" DENOTES SWITCH JUNCTION BOX. CONTROL LIGHTING FIXTURE. NUMERAL DENOTES CIRCUIT **①** JUNCTION BOX. NUMBERS. (TYPICAL ALL LIGHTING FIXTURES). COOK TOP UNIT ELECTRICAL CONNECTION. SURFACE OR PENDANT MOUNTED DOWNLIGHT. LIGHTING PANELBOARD (SURFACE MOUNTED). MOUNTED 6'-6" TO TOP. Ю WALL MOUNTED LIGHTING FIXTURE. DIRECT ELECTRICAL CONNECTION. ELECTRICAL **①** CONTRACTOR TO PERMANENTLY CONNECT RECESSED DOWNLIGHT. **EQUIPMENT READY FOR OPERATION.** LIGHTING PANELBOARD (SURFACE MOUNTED). CEILING OR PENDANT MOUNTED EXIT SIGN. ARROW DENOTES DIRECTION OF TRAVEL. MOUNTED 6'-6" TO TOP. Ю **DISCONNECT SWITCH. ALPHA/NUMERIC** WALL OR END MOUNTED EXIT SIGN. ☐ A325W CHARACTERS DENOTE SWITCH DESIGNATION, POLES. AMPERE RATING OF FUSE. "W" DENOTES HE **EXTEROR EMERGENCY LIGHTING FIXTURE.** WEATHERPROOF SWITCH. (SEE DISCONNECT SWITCH SCHEDULE ON THIS SHEET). **EMERGENCY BATTERY WITH LIGHTING FIXTURES EMERGILITE MODEL JSC25-210MAD. DISCONNECT SWITCH SCHEDULE EMERGENCY BATTERY WITH LIGHTING FIXTURES** SWITCH AMPERE SWITCH AMPERE **EMERGILITE MODEL JSM36-210MAD.** DESIGNATION DESIGNATION RATING RATING **EMERGENCY BATTERY WITH LIGHTING FIXTURES** Α 30A **EMERGILITE MODEL 12JSM54-210MAD.** В 60A 100A SINGLE POLE SWITCH MOUNTED 4'-0" A.F.F. L 200A м D THREE WAY SWITCH MOUNTED 4'-0" A.F.F. 400A 600A FOUR WAY SWITCH MOUNTED 4'-0" A.F.F. G 800A SINGLE POLE SWITCH WITH PILOT LIGHT MOUNTED 4'-0" A.F.F. н 1000A **DUPLEX RECEPTACLE (125 VOLT-1Ø3W** RECEPTACLE. MOUNTED 18" A.F.F. PADDLE FAN SPEED CONTROLLER. DOUBLE DUPLEX RECEPTACLE (QUADPLEX) MOUNTED 18" A.F.F. PADDLE FAN. WEATHERPROOF DUPLEX RECEPTACLE WITH **GROUND FAULT PROTECTION MOUNTED 18" A.F.F. TIMECLOCK TORK MODEL 7200L. GROUND FAULT RECEPTACLE MOUNTED 4'-0" A.F.F.** OVERHEAD PROJECTOR RECEPTACLE AND OUTLET. © **GARBAGE DISPOSAL OUTLET MOUNTED 18" A.F.F.** O_{EWH} **ELECTRIC WATER HEATER.** MICROWAVE OVEN. LA

POWER RISER DIAGRAM

NOT TO SCALE

PANEL SCHEDULE

CIRCUIT	E	BREAKER	S	FOLUDMENT SERVED
NUMBER	AMPS	POLES	AIC	EQUIPMENT SERVED
PANEL "LA"	120/240V	1Ø3W 200	AMPERI	E MAIN LUGS. SURFACE MOUNTED (SINGLE TUB PANEL)
1-7	20	1	10,000	RECEPTACLES
8	20	1	10,000	СООК ТОР
9-11	20	1	10,000	RECEPTACLES
12	30	2	10,000	ELECTRC WATER HEATER
13	20	1	10,000	KITCHEN EXHAUST HOOD
14,15,26	20	1	10,000	RECEPTACLES
16-22	20	1	10,000	LIGHTING
23	20	1	10,000	PADDLE FANS
24	30	2	10,000	PUMP CONTROLLER
25	20	1	10,000	FIRE ALARM CONTROL PANEL
27,28	20	2	10,000	ELECTRIC BASEBOARD HEATERS
29	30	2	10,000	HEAT PUMP HP-1
30	20	2	10,000	HEAT PUMP HP-2
31-42	20	1	10,000	SPARES

Camp Arrowhead Restoration

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LIGHTING FIXTURE SCHEDULE

TVDE	MANUEACTURER	MOUNTING	LAN	MPS .	FINIOU	LOCATION	DEMARKS
TYPE	MANUFACTURER	MOUNTING	WATTS	TYPE	FINISH	LOCATION	REMARKS
Α	PHILIPS S7R9035K10	SURFACE	14W	LED	BLACK	MAIN HALL CORRIDORS	
A 1	PHILIPS S7R9035K10	SURFACE	14W	LED	BLACK	MAIN HALL	SLOP ADAPTER REQUIRED
В	PHILIPS S7R9035K10	RECESSED	14W	LED	BLACK	SOFFIT	
С	PHILIPS S7R9035K10	SURFACE	14W	LED	WHITE	BATHROOM KITCHEN	
D	PHILIPS S5R830K7.0	SURFACE	9W	LED	WHITE	BATHROOM KITCHEN	
E	EXISTING TO REMAIN EC TO RELAMP	RECESSED		LED	WHITE	AIR PAVILLION	
F	PHILIPS S7R9035K10	SURFACE	9W	LED	WHITE	ATTIC	
G	COLUMBIA LIGHTING CWP4-4035	SURFACE	36.9W	LED	WHITE	RECREATION	
Н	PRESCOLITE LD4SD1206L35KFL30BL	WALL	9W	LED	BLACK	EXTERIOR	
X	EMERGILITE WPREMSNXR-DN	UNIVERSAL	2.8W	LED	WHITE	PATH OF EGRESS	

FEEDER SCHEDULE											
DESIGNATION	SIZE	GND	CONDUIT	QUANTITY	BREAKER SIZE POLI						
	-		SIZE		AMPS	. 0					
F-1	3#3/0	-	2 1/2"	1	-	-					
F-2	3#3/0	#6	2 1/2"	1	200	2					
F-3	-	#4	-	-	-	-					

1200A

1600A

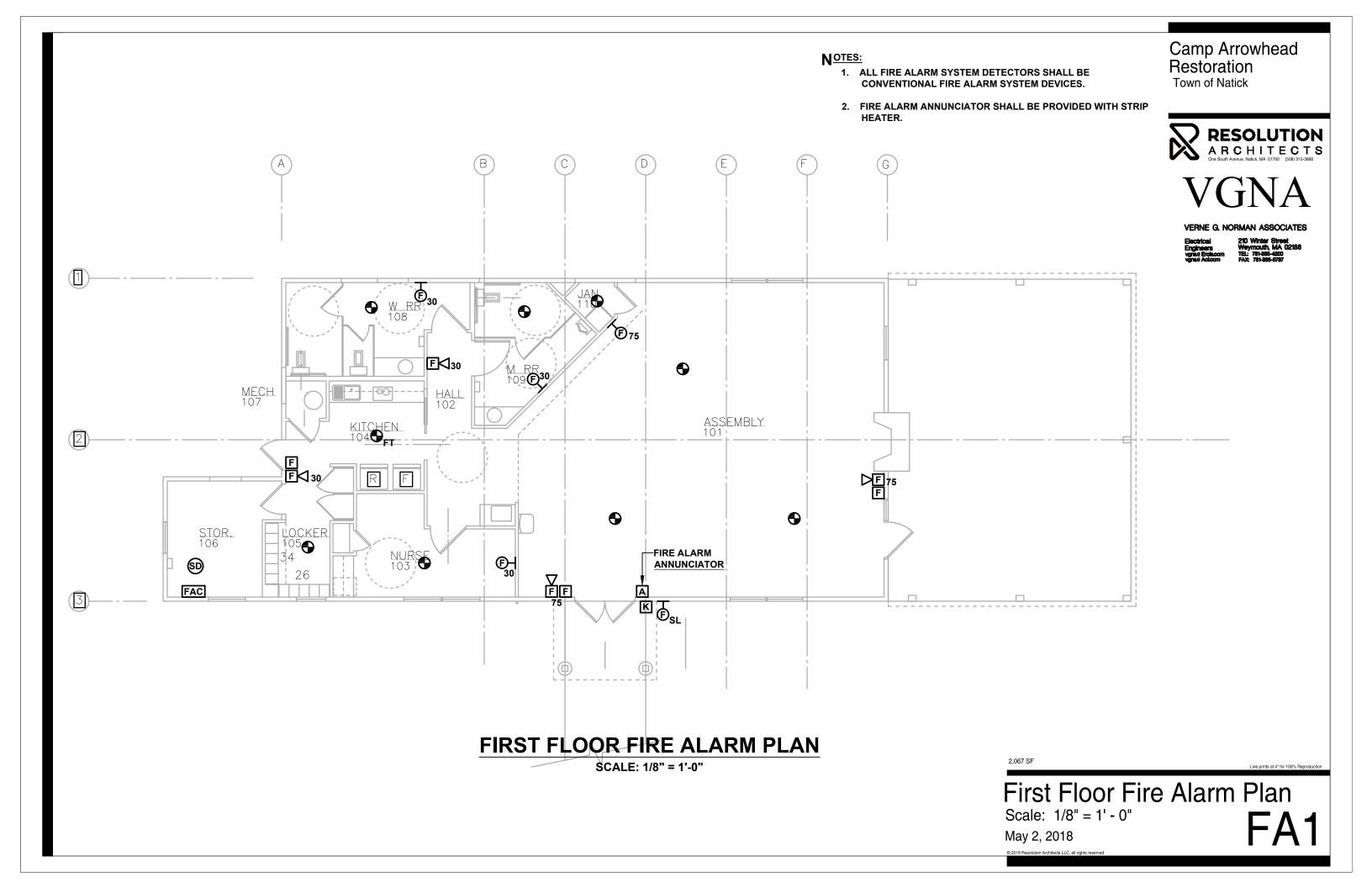
2000A

2500A

3000A

4000A

Legend & Schedules N.T.S.



NOTES:

- 1. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE FIRE ALARM FLOOR PLANS FOR THE EXACT QUANTITY OF FIRE ALARM SYSTEM DEVICES.
- 2. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL TWO(2) CAT 5E CABLES BETWEEN THE FIRE ALARM SYSTEM CONTROL PANEL COMMUNICATIONS AND THE BUILDING TELEPHONE PLYWOOD BACKBOARD. EACH CAT 5E CABLE SHALL BE INSTALLED IN A 3/4" CONDUIT
- 3. THE EXACT LOCATION OF THE EXTERIOR FIRE ALARM SYSTEM STROBE LIGHT SHALL BE DETERMINED BY THE ARCHITECT, FIRE DEPARTMENT AND THE ELECTRICAL CONTRACTOR IN THE FIELD.

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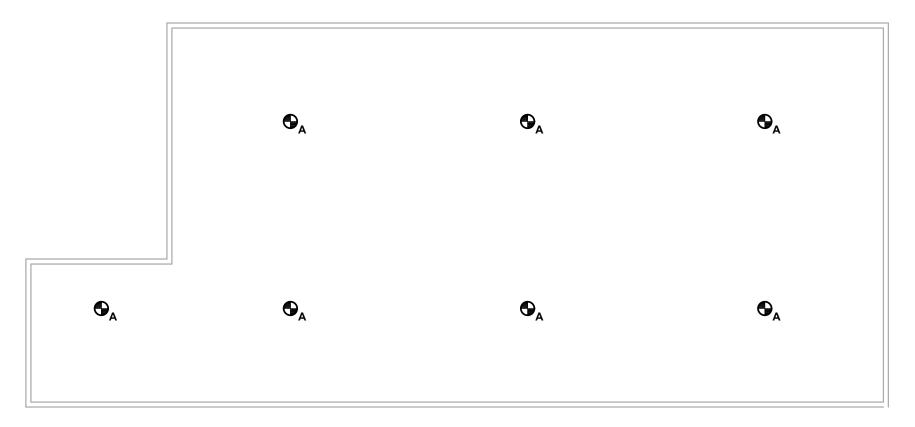
Town of Natick

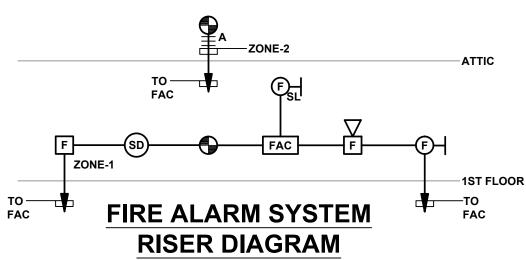


VGNA

VERNE G. NORMAN ASSOCIATES

Electrical Engineers vgnue Protecom vgnue Polocom 210 Winter Street Weymouth, MA 02184 TEL: 781-385-4200 FAX: 781-385-5737





NOT TO SCALE

ATTIC FIRE ALARM PLAN

SCALE: 1/8" = 1'-0"

2,067 SF

Line prints at 4" for 100% Reproduction

Attic Fire Alarm Plan

Scale: 1/8" = 1' - 0"

May 2, 2018

FA2

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SYSTEM OUTPUTS **CONTROL UNIT ANNUNCIATOR** В SYSTEM OUTPUTS SPRINKLER WATERFLOW 2 SMOKE/HEAT DETECTOR (FACP) 3 MANUAL STATION 4 5 **DUCT SMOKE DETECTOR** VALVE TAMPER 6 FIRE ALARM SYSTEM AC 7 POWER FAILURE FIRE ALARM SYSTEM LOW 8 **BATTERY** 9 **OPEN CIRCUIT** 10 **GROUND FAULT** WIRE-TO-WIRE SHORT 11 (SLC & NAC) 12 WIRE-TO-WIRE SHORT (IDC) LOSS OF CARRIER SMOKE DETECTOR 1ST FLOOR 14 **ELEVATOR LOBBY** SMOKE DETECTOR 2ND, 6TH FLOOR ELEVATOR LOBBY

FIRE ALARM SYSTEM SEQUENCE OF OPERATION MATRIX

FIRE ALARM LEGEND

• FIXED TEMPERATURE FIRE ALARM DETECTOR. lefte_{FT} FIXED TEMPERATURE FIRE ALARM DETECTOR. (190°). FIRE ALARM DETECTOR LOCATED IN ATTIC 190° FIXED TEMPERATURE. (SD) FIRE ALARM SYSTEM SMOKE DETECTOR. MANUAL FIRE ALARM PULL STATION MOUNTED F 48" A.F.F. **F**⊲₁₅ **COMBINATION FIRE ALARM HORN & STROBE** LIGHT MOUNTED 80". SUBSCRIPT "15" **DENOTES THE CANDELA RATING OF THE FIRE** ALARM STROBE. FIRE ALARM CONTROL PANEL MOUNTED 6'-6" FAC TO TOP WITH SUPPLEMENTED ELECTRIC HEATER. HE₁₅ FIRE ALARM STROBE LIGHT. SUBSCRIPT "15" DENOTES THE CANDELA RATING. MOUNTED 80" A.F.F. HP_{SL} FIRE ALARM STROBE LIGHT (EXTERIOR). K KNOX BOX.

FIRE ALARM ANNUNCIATOR.

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NOTES:

Α

NOTIFICATION

1. ALL FIRE ALARM DEVICES SHALL BE CONVENTIONAL FIRE **ALARM DEVICES.**

Fire Alarm Legend N.T.S.