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Code Information

GOVERNING REGULATIONS

ALASKA ADMIN CODE	13 AAC 50.020
→ INTERNATIONAL BUILDING CODE	IBC - 2021 EDITION
→ INTERNATIONAL ENERGY CONSERVATION CODE	IECC - 2021 EDITION
→ INTERNATIONAL MECHANICAL CODE	IMC - 2021 EDITION
→ INTERNATIONAL FIRE CODE	IFC - 2021 EDITION
→ INTERNATIONAL FUEL GAS CODE	IFGC - 2021 EDITION
→ NATIONAL ELECTRIC CODE	NFPA 70 - 2020 EDITION
→ NATIONAL ELECTRICAL SAFETY CODE	ANSI C2 - 2017 EDITION
→ LIFE SAFETY CODE	NFPA 101 - 2000 EDITION
→ ALASKA ACCESSIBILITY CODE	A117.1 - 2017 EDITION
→ GUIDELINES FOR DESIGN AND CONSTRUCTION OF HOSPITAL AND HEALTH CARE FACILITIES	AIA - 2001 EDITION

PROJECT DESCRIPTION

This project scope involves selective demolition and renovation in the existing two-story Medical Clinic Center in Unalaska, Alaska, and adding an 18,905 square foot, one-story expansion to enhance the clinic's services. The new addition will house the Pharmacy, Lab, Imaging, and Emergency departments to improve patient care, optimize clinical workflows, and integrate modern healthcare standards. The new addition will be constructed to meet hospital standards.

BUILDING CLASSIFICATIONS

FIRE PROTECTION, DETECTION, AND ALARM SYSTEMS

All code analysis is based on work within an existing facility which is fully protected by an approved automatic sprinkler system and an approved fire alarm system. All areas within the project limits shall be protected by an approved automatic sprinkler system and an approved fire alarm system at the completion of the project.

USE GROUPS/OCCUPANCIES

IBC - 2021	NFPA-101 - 2000
I-2 (Institutional - Incapacitated) (Sections 308.3 and 407)	New Healthcare (Chapter 18)

TYPE OF CONSTRUCTION

IBC - 2021	NFPA-101 - 2000
Type IIB (Non-Combustable, Protected) (Section 602.2)	Type II (000) (Non-Combustable, Unprotected) (Section 8.2.1.2)

See Architectural Narrative for additional Building Classifications.

ALLOWABLE BUILDING HEIGHT

IBC - 2021, Section 504.3	55' - 0" - 1 Story

ACTUAL BUILDING HEIGHT

22' - 8" - 1 Story

ALLOWABLE BUILDING AREA

IBC - 2021, Section 506.2	44,000 SF

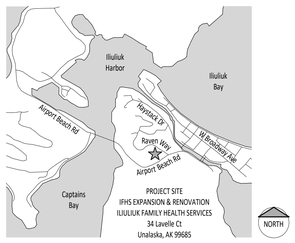
ACTUAL BUILDING AREA

18,905 SF

BUILDING ENVELOPE REQUIREMENTS - 2021 IECC (SECTION C402)

County: Aleutians West	Climate Zone: 7	
ROOFS	Required	Provided
Insulation entirely above roof deck	R-35ci	R-49
WALLS, ABOVE GRADE		
Metal framed	R-13 + R-12.5ci	R-13 + R-16ci
WALLS, BELOW GRADE		
Below-grade wall	R-15ci	R-22
FLOORS		
Joist/framing	N/A	N/A
SLAB-ON-GRADE FLOORS		
Heated/Unheated Slabs	N/A	N/A

Location Map



STENGEL-HILL

Iliuliuk Family and Health Services

US Management Services

IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES

34 LAVELLE CT
UNALASKA, AK 99685

SCHEMATIC DESIGN DRAWINGS
NOT FOR CONSTRUCTION

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SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

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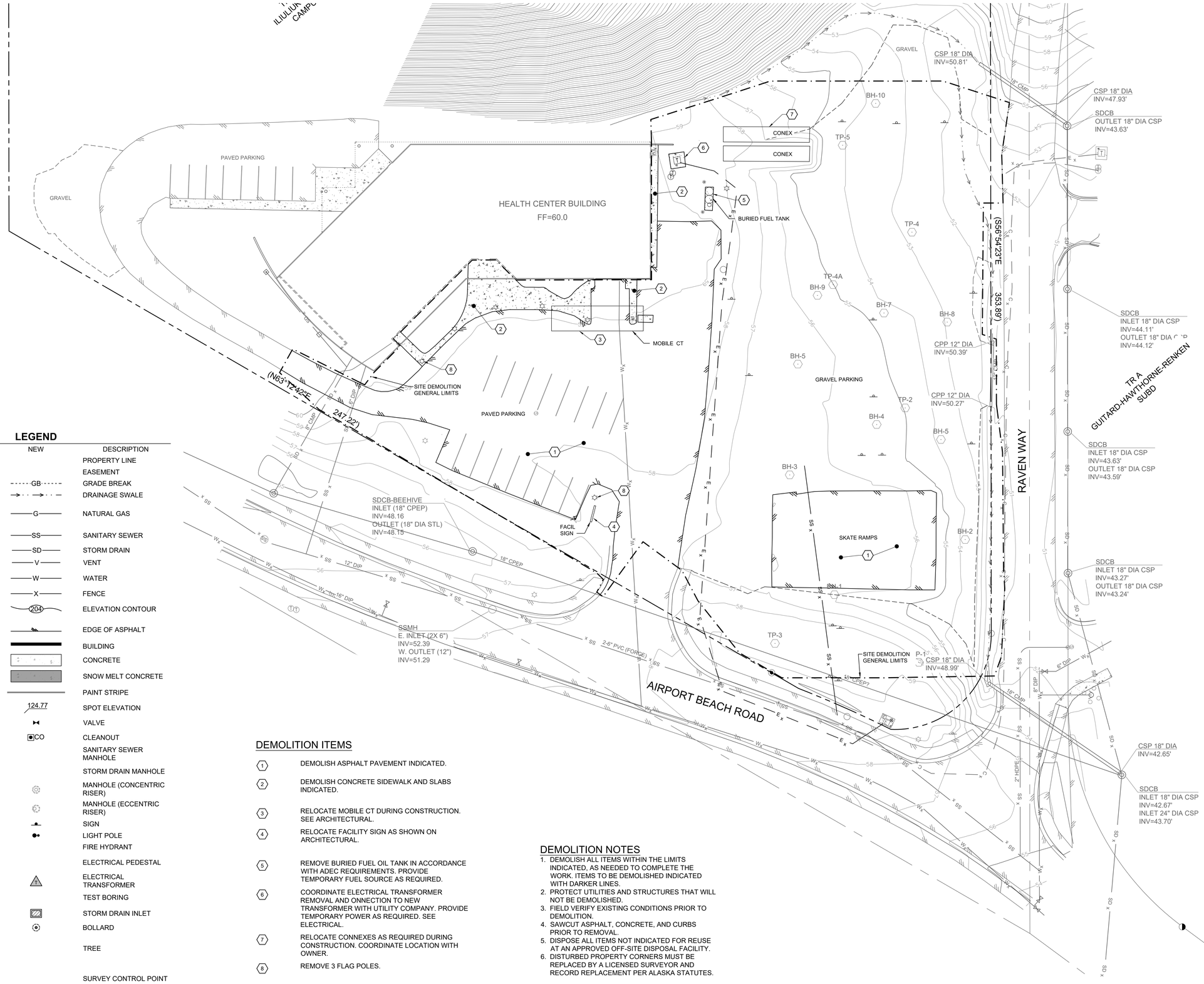
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LEGEND

EXISTING	NEW	DESCRIPTION
		PROPERTY LINE
		EASEMENT
	GB	GRADE BREAK
		DRAINAGE SWALE
G x	G	NATURAL GAS
SS x	SS	SANITARY SEWER
SD x	SD	STORM DRAIN
	V	VENT
W x	W	WATER
X	X	FENCE
204	204	ELEVATION CONTOUR
		EDGE OF ASPHALT
		BUILDING
		CONCRETE
		SNOW MELT CONCRETE
		PAINT STRIPE
	124.77	SPOT ELEVATION
		VALVE
	CO	CLEANOUT
		SANITARY SEWER MANHOLE
		STORM DRAIN MANHOLE
		MANHOLE (CONCENTRIC RISER)
		MANHOLE (ECCENTRIC RISER)
		SIGN
		LIGHT POLE
		FIRE HYDRANT
U.E.		ELECTRICAL PEDESTAL
T		ELECTRICAL TRANSFORMER
TB #3		TEST BORING
		STORM DRAIN INLET
		BOLLARD
		TREE
3		SURVEY CONTROL POINT

DEMOLITION ITEMS

1. DEMOLISH ASPHALT PAVEMENT INDICATED.
2. DEMOLISH CONCRETE SIDEWALK AND SLABS INDICATED.
3. RELOCATE MOBILE CT DURING CONSTRUCTION. SEE ARCHITECTURAL.
4. RELOCATE FACILITY SIGN AS SHOWN ON ARCHITECTURAL.
5. REMOVE BURIED FUEL OIL TANK IN ACCORDANCE WITH ADEC REQUIREMENTS. PROVIDE TEMPORARY FUEL SOURCE AS REQUIRED.
6. COORDINATE ELECTRICAL TRANSFORMER REMOVAL AND ONNECTION TO NEW TRANSFORMER WITH UTILITY COMPANY. PROVIDE TEMPORARY POWER AS REQUIRED. SEE ELECTRICAL.
7. RELOCATE CONNEXES AS REQUIRED DURING CONSTRUCTION. COORDINATE LOCATION WITH OWNER.
8. REMOVE 3 FLAG POLES.

DEMOLITION NOTES

1. DEMOLISH ALL ITEMS WITHIN THE LIMITS INDICATED, AS NEEDED TO COMPLETE THE WORK. ITEMS TO BE DEMOLISHED INDICATED WITH DARKER LINES.
2. PROTECT UTILITIES AND STRUCTURES THAT WILL NOT BE DEMOLISHED.
3. FIELD VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION.
4. SAWCUT ASPHALT, CONCRETE, AND CURBS PRIOR TO REMOVAL.
5. DISPOSE ALL ITEMS NOT INDICATED FOR REUSE AT AN APPROVED OFF-SITE DISPOSAL FACILITY.
6. DISTURBED PROPERTY CORNERS MUST BE REPLACED BY A LICENSED SURVEYOR AND RECORD REPLACEMENT PER ALASKA STATUTES.

PLAN NORTH

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: 1" = 20'

0' 20' 40'

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Iliuliuk Family and Health Services

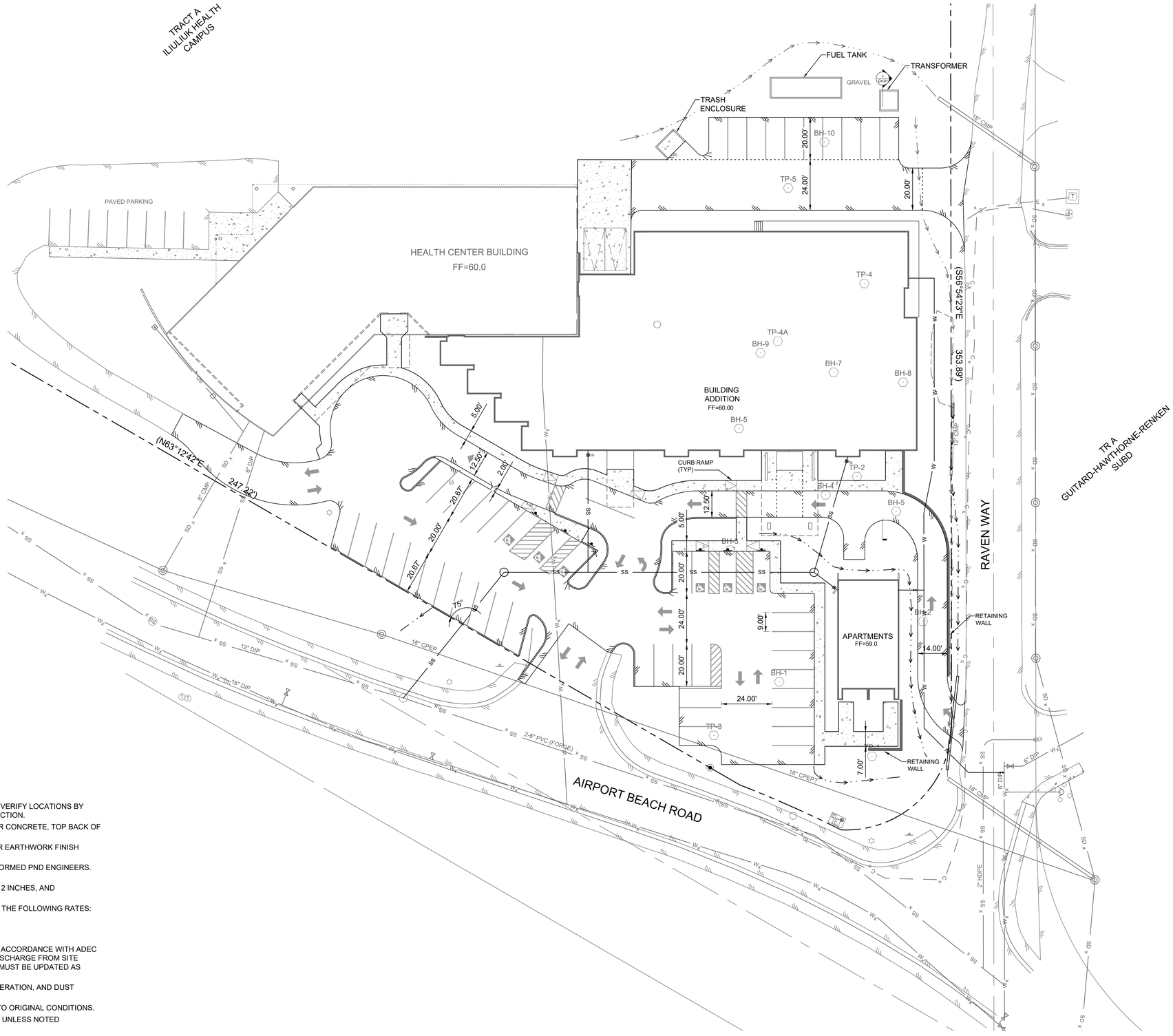
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EXISTING CONDITIONS & DEMOLITION PLAN

IFHS EXPANSION & RENOVATION
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UNALASKA, AK

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C1.01



GENERAL CIVIL NOTES

1. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE ONLY. VERIFY LOCATIONS BY OBTAINING UTILITY LOCATES PRIOR TO BEGINNING CONSTRUCTION.
2. DIMENSIONS AND RADII SHOWN ARE TO EDGE OF ASPHALT OR CONCRETE, TOP BACK OF CURB, OR GRADE BREAK UNLESS INDICATED OTHERWISE.
3. ELEVATIONS ARE TO TOP OF ASPHALT, TOP OF CONCRETE OR EARTHWORK FINISH GRADE UNLESS INDICATED OTHERWISE.
4. EXISTING GROUND CONTOURS ARE BASED ON SURVEY PERFORMED PND ENGINEERS. SEE SURVEY NOTES .
5. FILL MATERIAL MUST BE PLACED IN LIFTS NO THICKER THAN 12 INCHES, AND COMPACTED TO 95% MINIMUM DENSITY (PER ASTM D1557).
6. PROVIDE PASSING TESTS FOR FILL AND BACKFILL PLACED AT THE FOLLOWING RATES:
   - MASS FILL 1 PER 10,000 SF PER LIFT
   - FOOTINGS 1 PER 500 SF PER LIFT
   - PAVED AREAS 1 PER 5,000 SF PER LIFT
7. PROVIDE A STORMWATER POLLUTION PREVENTION PLAAN IN ACCORDANCE WITH ADEC REGULATIONS. IMPLEMENT CONTROLS TO LIMIT SEDIMENT DISCHARGE FROM SITE DURING CONSTRUCTION DUE TO SOIL EROSION. THE SWPPP MUST BE UPDATED AS NEEDED DURING CONSTRUCTION.
8. FOLLOW UNALASKA REGULATIONS FOR NOISE, HOURS OF OPERATION, AND DUST CONTROL.
9. RESTORE DISTURBED PROPERTY OUTSIDE OF WORK LIMITS TO ORIGINAL CONDITIONS.
10. PARKING SPACE STRIPING MUST BE 4 INCHES WIDE, YELLOW, UNLESS NOTED OTHERWISE.

PLAN NORTH

0' 20' 40'

SITE PLAN

SCALE: 1" = 20'

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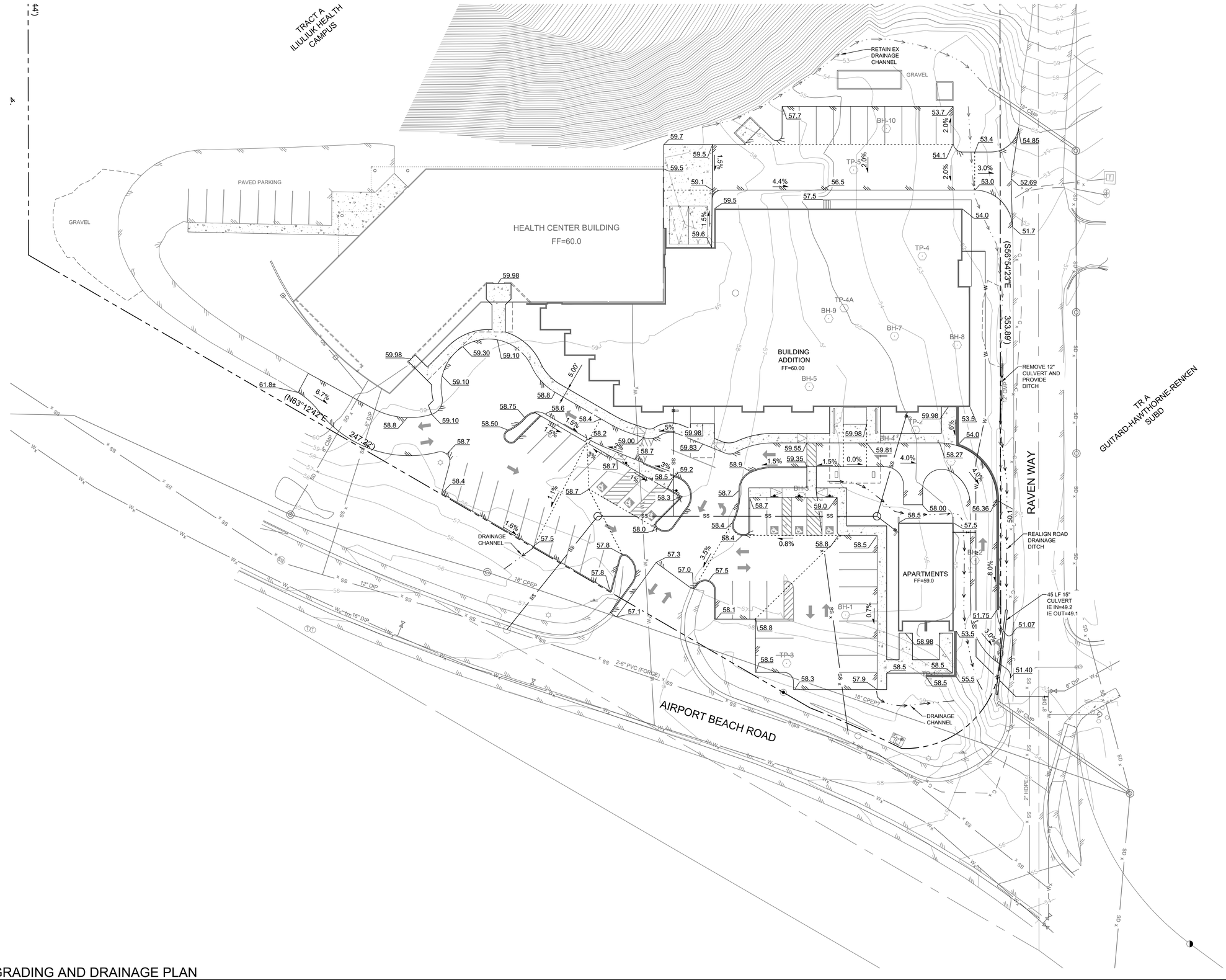
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SITE PLAN
IFHS EXPANSION & RENOVATION
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UNALASKA, AK

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C2.01



GRADING AND DRAINAGE PLAN

SCALE: 1" = 20'

PLAN NORTH

0' 20' 40'

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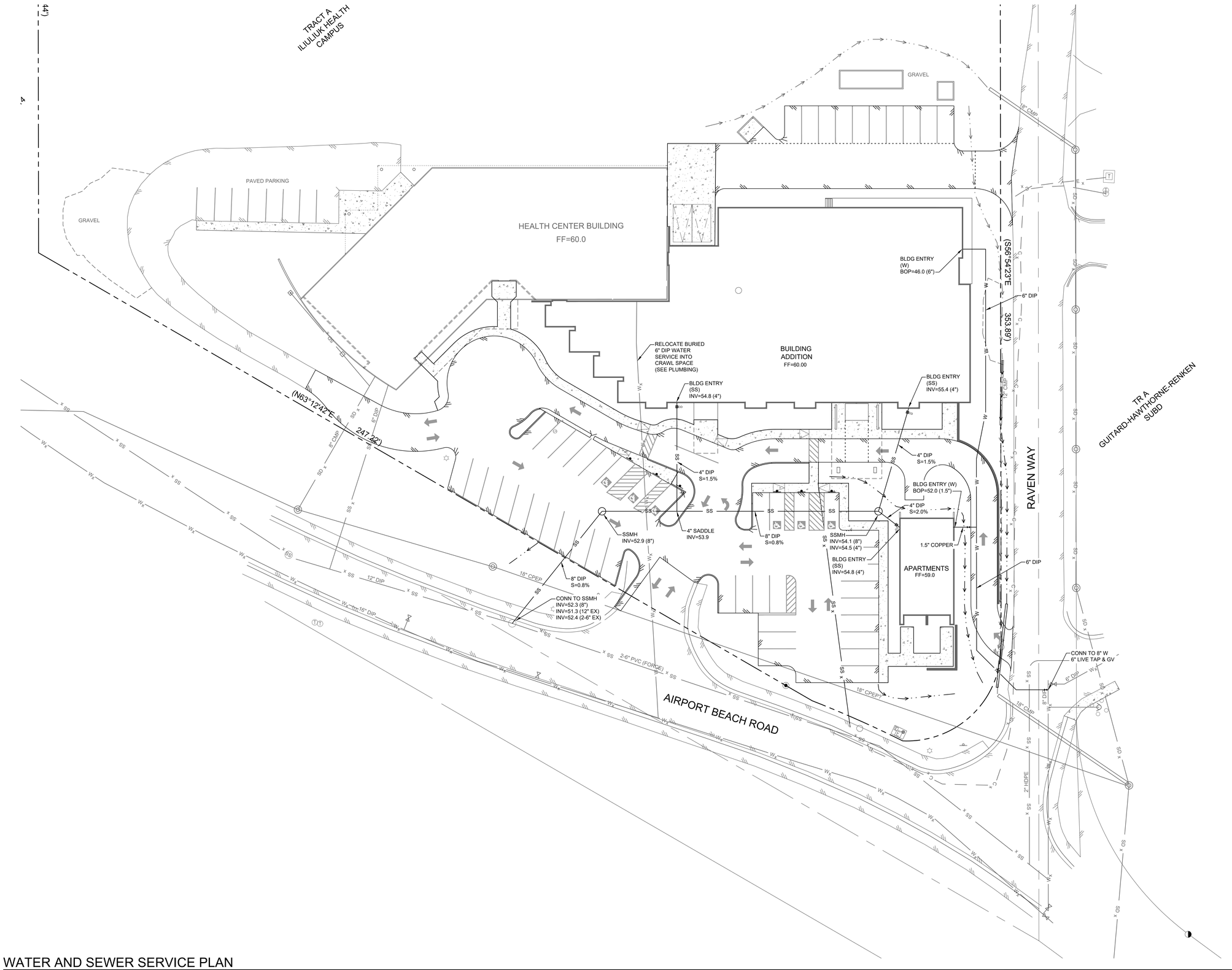
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GRADING AND DRAINAGE PLAN

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WATER AND SEWER SERVICE PLAN

SCALE: 1" = 20'

PLAN NORTH

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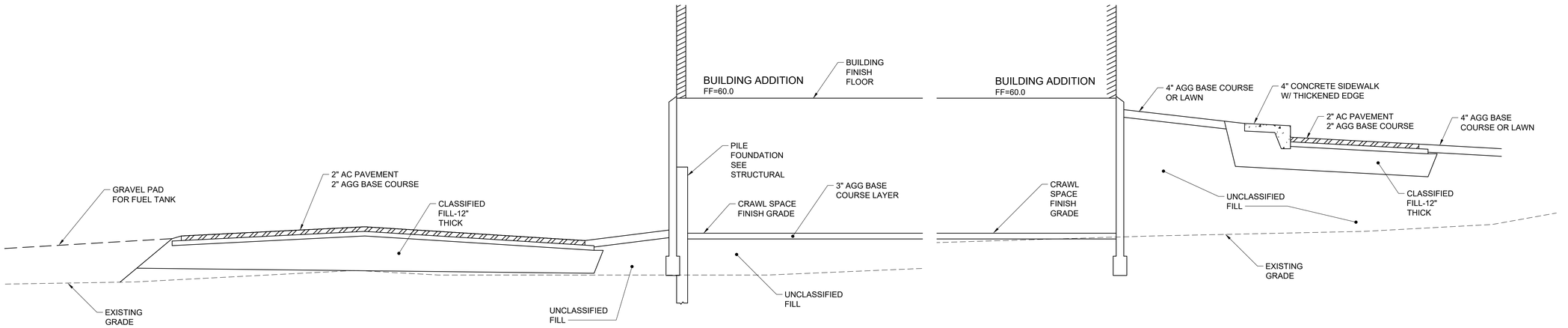
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WATER AND SEWER SERVICE PLAN
IFHS EXPANSION & RENOVATION
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UNALASKA, AK

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1 SITE SECTION

SCALE: (H) 1" = 5'
(V) 1" = 2'

0' 5' 10'

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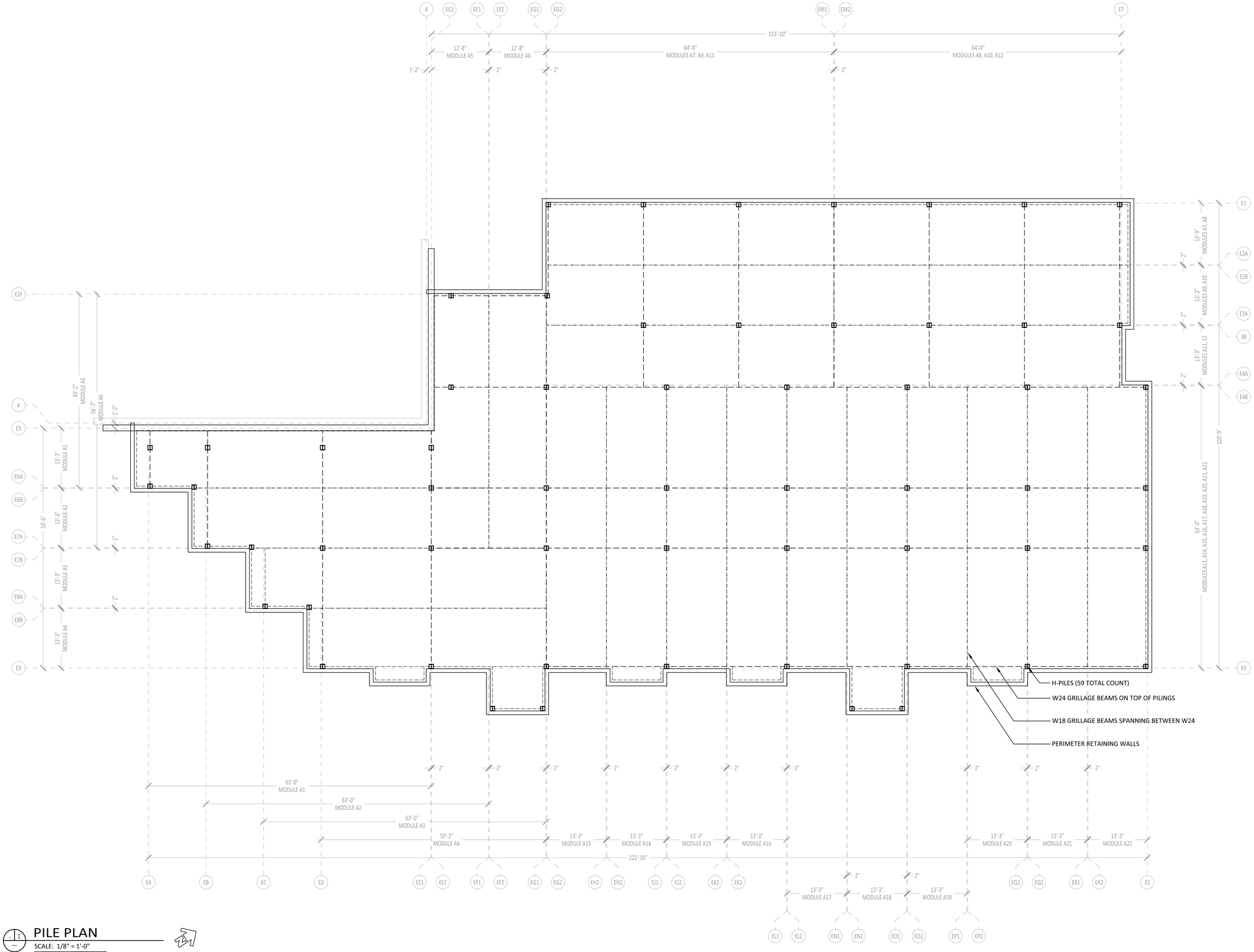
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SITE SECTIONS
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

C4.01



1 PILE PLAN

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

0 2' 4' 8' 16'

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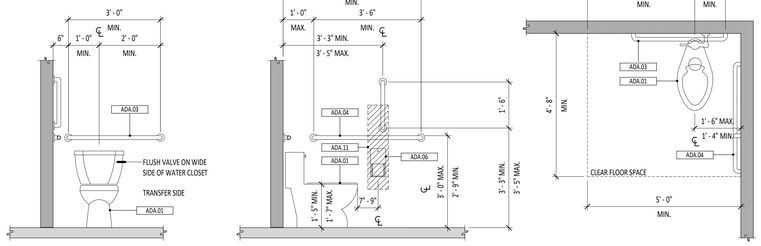
PILE PLAN

IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

FEBRUARY 17 2025
IFH2402

MS1.01

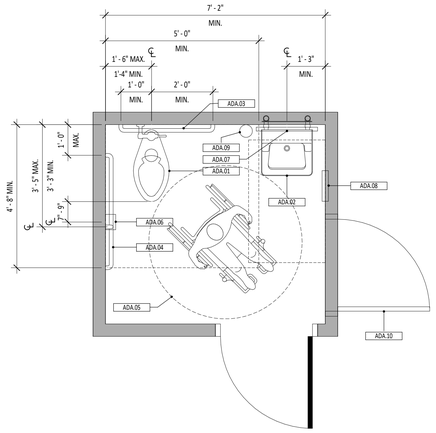
TOILETS



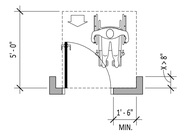
GRAB BARS AT WATER CLOSETS

CLEAR FLOOR SPACE AT WATER CLOSETS

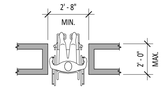
TOILET ROOM LAYOUT



DOORS

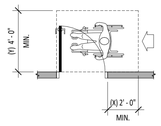


RECESSED DOORS/GATES

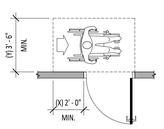


MAXIMUM DOORWAY DEPTH

NOTE: Y = 4'-6" MINIMUM IF DOOR HAS A CLOSER

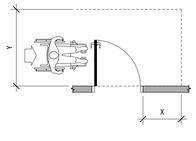


NOTE: Y = 4'-0" MINIMUM IF DOOR HAS A CLOSER

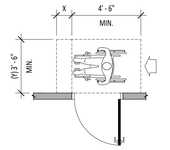


LATCH SIDE APPROACHES - SWINGING DOORS

NOTE: X = 3'-0" MINIMUM IF Y = 5'-0"
X = 3'-6" MINIMUM IF Y = 4'-6"

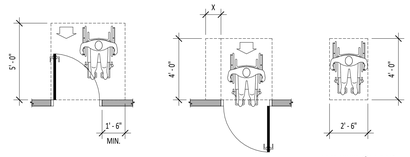


NOTE: X = 1'-0" MINIMUM IF DOOR HAS BOTH A LATCH AND A CLOSER
Y = 4'-0" MINIMUM IF DOOR HAS BOTH A LATCH AND A CLOSER



HINGE SIDE APPROACHES - SWINGING DOORS

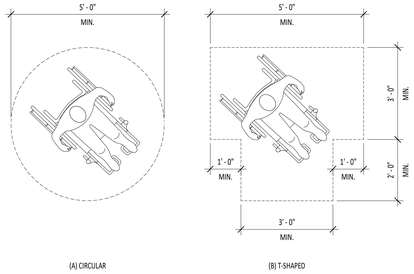
NOTE: X = 1'-0" MINIMUM IF DOOR HAS BOTH A LATCH AND A CLOSER



FRONT APPROACHES - SWINGING DOORS

WHEELCHAIR CLEARANCE

TURNING SPACES

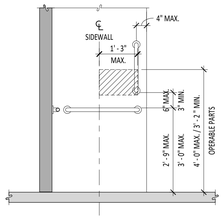


(A) CIRCULAR

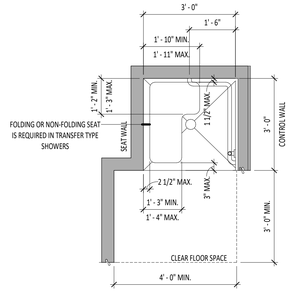
(B) T-SHAPED

SIZE OF TURNING SPACE

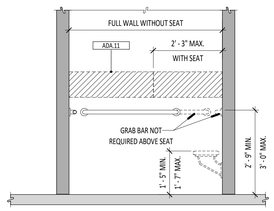
SHOWERS



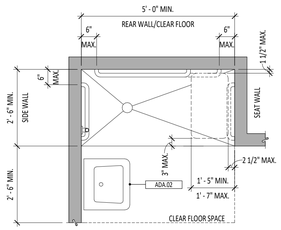
GRAB BARS AT TRANSFER SHOWER
SIDEWALL OPPOSITE SEAT



TRANSFER SHOWER PLAN

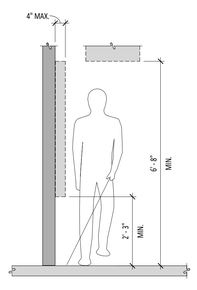


ROLL-IN TRANSFER SHOWER

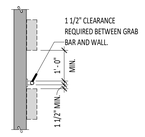


ROLL-IN SHOWER PLAN

PROTRUDING OBJECTS



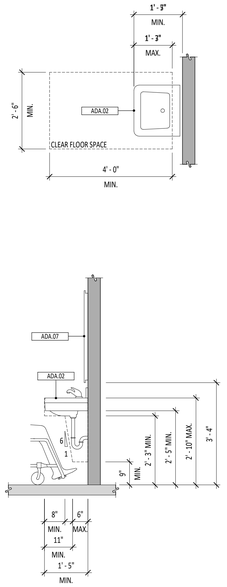
LIMITS OF PROTRUDING OBJECTS



NOTE:
THE SPACE BETWEEN GRAB BARS, SHOWER CURTAINS, AND SHOWER FITTINGS SHALL BE PERMITTED TO BE 1 1/2" MINIMUM.

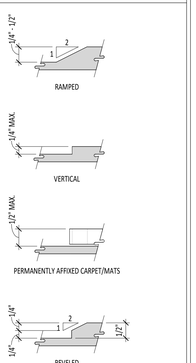
GRAB BAR CLEARANCE

LAVATORIES

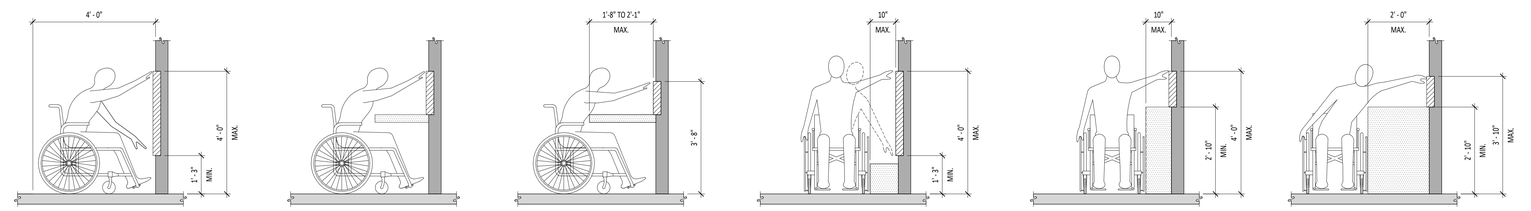


CLEARANCES

CHANGES IN FLOOR LEVEL



REACH RANGES



UNOBSTRUCTED FORWARD REACH

UNOBSTRUCTED HIGH FORWARD REACH

UNOBSTRUCTED SIDE REACH

UNOBSTRUCTED HIGH SIDE REACH

GENERAL NOTES

1. THESE DETAILS REPRESENT THE MINIMUM ACCEPTABLE LEVEL OF ACCESSIBILITY FOR THIS PROJECT. ANY CONFLICTS BETWEEN THIS INFORMATION AND THE REST OF THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY. DETAILS ARE BASED ON 2017 AMERICANS WITH DISABILITIES ACT.

   = DIRECTION OF APPROACH.

2. WHERE A RANGE OF DIMENSIONS IS GIVEN (33" - 36") THE ACTUAL CONSTRUCTION DIMENSION MAY NOT BE OUTSIDE THAT RANGE.
3. GRAB BAR DIMENSIONS ARE TO THE CENTERLINE OF THE PIPE.
4. INTERIOR DIMENSIONS ARE FROM FINISH FACE TO FINISH FACE.
5. AREAS NOTED AS "CLEAR FLOOR SPACE" ARE TO HAVE A MAXIMUM SLOPE OF 1:48 AND MUST COMPLY WITH ADA SECTIONS 404.2.4.2.
6. ALL DOOR HARDWARE MUST COMPLY WITH ADA SECTIONS 4.13.9 AND 4.13.10.
7. DOOR OPENING FORCE SHALL COMPLY WITH ADA SECTION 4.13.11.
8. AUTOMATIC DOORS SHALL COMPLY WITH ADA SECTION 4.13.12.
9. MANUAL SWING DOORS AND CLEARANCES SHALL COMPLY WITH ADA SECTION 404.2.4.1.

KEYNOTES

ADA.01	ACCESSIBLE WATER CLOSET - SEAT 17" MIN. TO 19" MAX A.F.F.
ADA.02	ACCESSIBLE LAVATORY.
ADA.03	3'-0" MINIMUM GRAB BAR.
ADA.04	3'-6" MINIMUM GRAB BAR.
ADA.05	5'-0" WATER CLOSET TURNAROUND.
ADA.06	TOILET PAPER DISPENSER.
ADA.07	MIRROR - 3'-4" A.F.F. TO BOTTOM OF GLASS.
ADA.08	PAPER TOWEL DISPENSER - 4'-6" A.F.F. TO HIGHEST OPERABLE PART.
ADA.09	SOAP DISPENSER - 4'-0" A.F.F. TO HIGHEST OPERABLE PART.
ADA.10	ALTERNATE DOOR LOCATION.
ADA.11	HATCH REPRESENTS ALLOWABLE LOCATION OF ACCEPTED WALL MOUNTED EQUIPMENT.

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Iliuliuk Family and Health Services

SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

ADA STANDARDS

IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

A0.1



01 DEMOLITION SITE PLAN
A1.0 1/16" = 1'-0" PLAN NORTH TRUE NORTH

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONFIGURATIONS SHOWN IN THE CONSTRUCTION DRAWINGS.
2. EXISTING MECHANICAL, PLUMBING, ELECTRICAL SYSTEMS MUST CONTINUE TO OPERATE AS REQUIRED TO SATISFY OWNER THROUGHOUT THE CONSTRUCTION PERIOD.
3. CONTRACTOR SHALL INSTALL FENCING TO SECURE SITE AT APPROXIMATE LOCATIONS SHOWN. PROVIDE HINGED GATES AS REQUIRED TO PROVIDE EASY ACCESS TO SITE FOR ALL CONSTRUCTION WORK TO OCCUR.
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6. CONTRACTOR SHALL PROVIDE WASH-DOWN FACILITIES TO CLEAN LOOSE DIRT, ROCK, VEGETATION OR ANY TYPE OF DEMOLITION DEBRIS FROM TRUCKS EXITING THE PROPERTY.
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8. SITE INFORMATION SHOWN ON ARCHITECTURAL SITE PLANS ARE FOR REFERENCE ONLY. REFER TO CIVIL DRAWINGS FOR EXACT SCOPE.
9. REFERENCE CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR DELINEATION OF ALL ASSEMBLIES WITHIN THEIR RESPECTIVE PORTIONS OF WORK.
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11. CONTRACTOR SHALL ABIDE BY ALL CITY OF UNALASKA REQUIREMENTS FOR CONSTRUCTION ACTIVITIES.

SITE DEMOLITION KEYNOTES

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2. RELOCATE MOBILE CT UNIT TEMPORARILY TO NEW LOCATION SHOWN IN PLAN.
3. DEMOLITION OF FUEL TANK AND TRANSFORMER TO BE PERFORMED IN SUCH A MANNER AS TO NOT INTERRUPT EXISTING CLINIC OPERATIONS.
4. TEMPORARY LOCATION FOR MOBILE CT, NEW SIDEWALK, AND NEW CANOPY. REFER TO PHASING PLAN.

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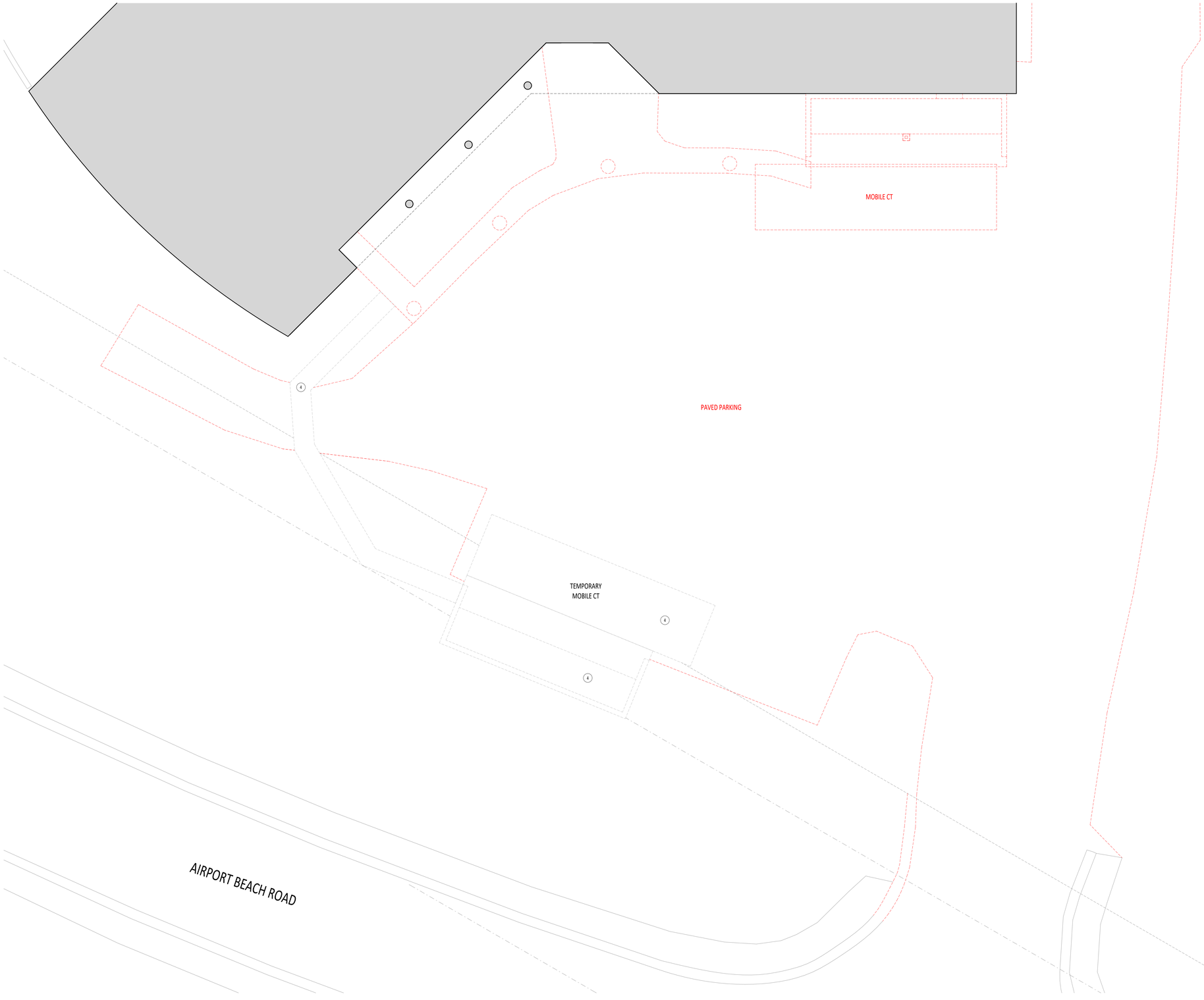
SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

ARCHITECTURAL DEMOLITION SITE PLAN

IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

A1.0



01 MOBILE CT TEMPORARY LOCATION PLAN
A1.1 — 1/8" = 1'-0" — PLAN NORTH — TRUE NORTH

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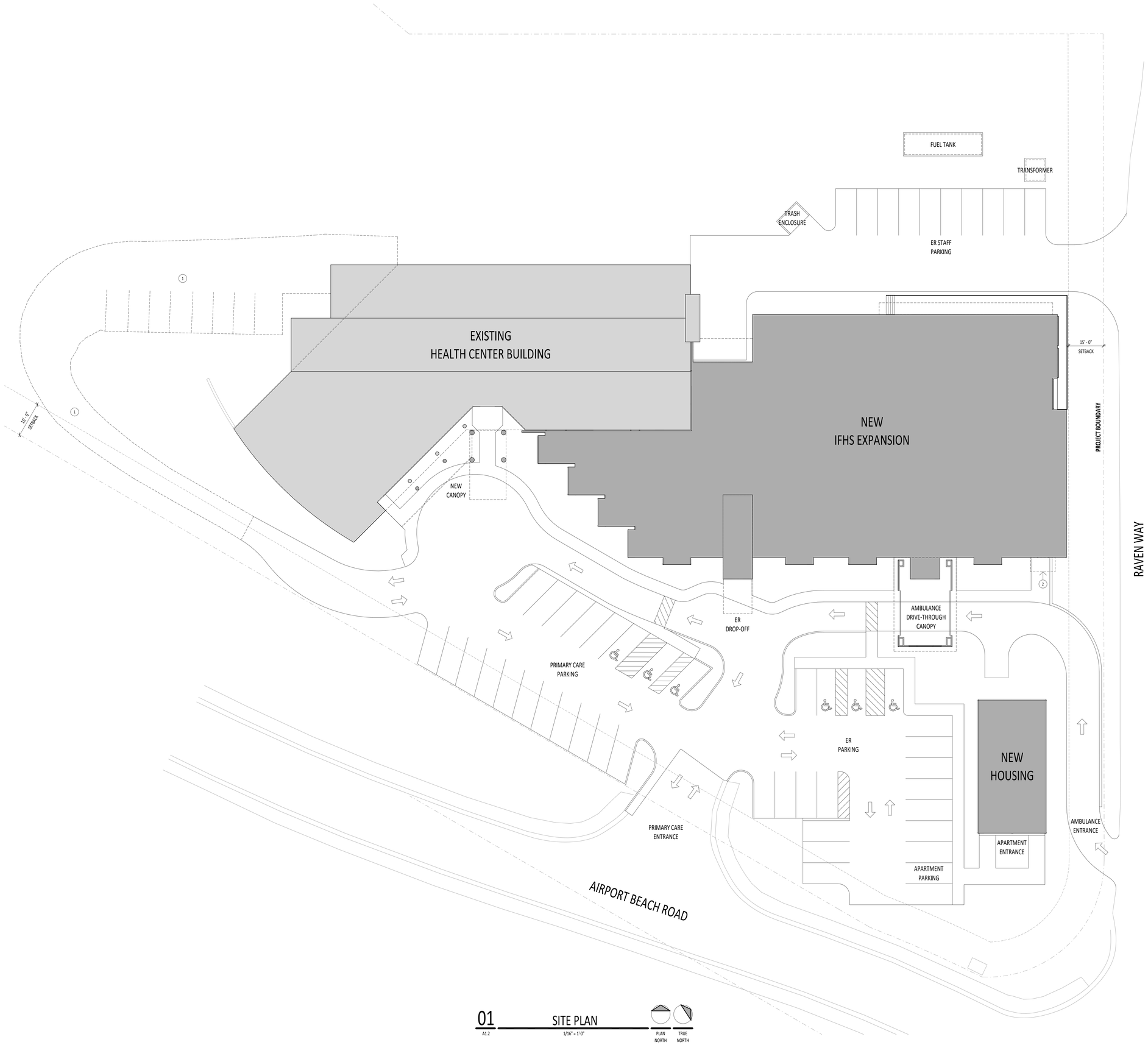
SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

MOBILE CT TEMPORARY LOCATION PLAN

IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

A1.1



01 SITE PLAN
A1.2 1/16" = 1'-0"
PLAN NORTH TRUE NORTH

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SITE KEYNOTES

1. EXISTING DRIVE AND PARKING FOR SECOND FLOOR ENTRANCE.
2. YELLOW PAINTED "DECON" ENTRANCE BOUNDARY.

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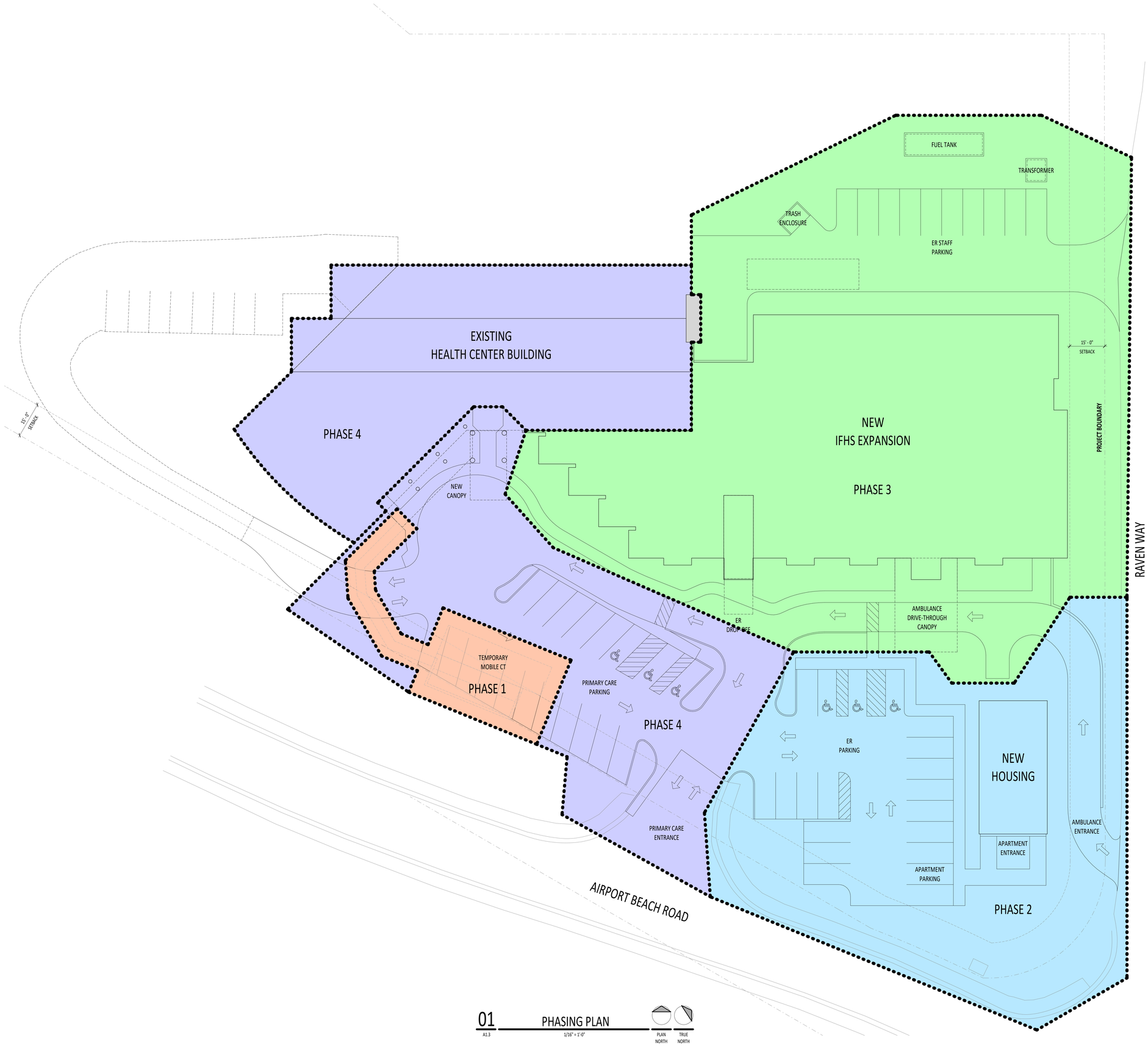
Iliuliuk Family and Health Services

SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

ARCHITECTURAL SITE PLAN
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

A1.2



01 PHASING PLAN
A1.3 1/16" = 1'-0"
PLAN NORTH TRUE NORTH

GENERAL NOTES

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PHASING LEGEND

- PHASE 1 — CONSTRUCT SIDEWALK, CANOPY, ANDPOWER ENTRANCE, RELOCATE MOBILE CT
- PHASE 2 — CONSTRUCT NEW PARKING, LIGHTING, AND HOUSING
- PHASE 3 — CONSTRUCT CLINIC ADDITION
- PHASE 4 — CONSTRUCT BALANCE OF PARKING, NEW ENTRANCE, AND RENOVATIONS

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SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

PHASING PLAN
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

A1.3



01 FIRST FLOOR DEMO PLAN - AREA 'A'

A2.1 1/8" = 1'-0" PLAN NORTH TRUE NORTH

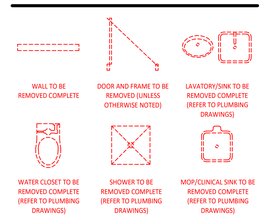
GENERAL NOTES

1. REFERENCE PROJECT MANUAL FOR ADDITIONAL INFORMATION REGARDING SELECTIVE DEMOLITION.
2. BOLD RED DASHED LINES INDICATE ITEMS TO BE REMOVED. REFER TO DEMOLITION NOTES FOR SPECIFIC INSTRUCTIONS.
3. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND SHALL NOTIFY ARCHITECT IMMEDIATELY OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONFIGURATIONS SHOWN IN THE CONSTRUCTION DRAWINGS.
4. INFORMATION REGARDING STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL ITEMS TO BE REMOVED HAS BEEN INCLUDED FOR REFERENCE ONLY. REFER TO STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL CONSTRUCTION DRAWINGS FOR COMPLETE INSTRUCTIONS ON THE REMOVAL OF THESE ITEMS AND SCOPE OF DEMOLITION WORK OUTSIDE OF PROJECT LIMITS SHOWN ON THE ARCHITECTURAL DRAWINGS AS REQUIRED FOR NEW WORK.
5. EXISTING MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS MUST CONTINUE TO OPERATE AS REQUIRED TO SATISFY OWNER THROUGHOUT THE CONSTRUCTION PERIOD.
6. ALL ADJACENT SURFACES TO THE AREA OF DEMOLITION WHICH ARE SCHEDULED TO REMAIN AND ARE IN ANY MANNER AFFECTED BY THE WORK SHALL BE PATCHED AS REQUIRED TO MATCH THE ADJACENT FINISHED SURFACES.
7. ALL LOCATIONS OF DUCTWORK AND PIPING REMOVAL THROUGH EXISTING WALL CONSTRUCTION SCHEDULED TO REMAIN SHALL BE PATCHED WITH MATERIALS IDENTICAL ADJACENT TO CONSTRUCTION AS REQUIRED FOR UNIFORM TRANSITIONS TO ADJACENT FINISH SURFACES.
8. CONTRACTOR SHALL REMOVE PORTIONS OF EXISTING CONSTRUCTION AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL, PLUMBING AND/OR ELECTRICAL ITEMS AS INDICATED ON MEP DRAWINGS. ALL SURFACES AFFECTED SHALL BE PATCHED UPON COMPLETION OF MECHANICAL, PLUMBING AND/OR ELECTRICAL WORK AS REQUIRED TO MATCH ADJACENT SURFACES.
9. CUTTING AND PATCHING OF EXISTING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING THE WORK FOR WHICH THE CUTTING IS REQUIRED. THE WORK SHALL BE PERFORMED BY A PERSON OR PERSONS SKILLED IN THE TRADE INVOLVED.
10. ALL DEMOLITION DEBRIS SHALL BE DISPOSED OF IN A MANNER ACCEPTABLE TO THE REGULATORY AUTHORITY HAVING JURISDICTION AND OWNER.
11. NOISE AND DUST LEVELS SHALL BE KEPT TO A MINIMUM TO AVOID DISTURBANCES TO ONGOING ACTIVITIES IN THE ADJACENT AREAS.
12. CONTRACTOR SHALL PROVIDE TEMPORARY PARTITION/DOORS AS REQUIRED TO SECURE PROJECT AREA AT ALL TIMES AND AS REQUIRED TO AVOID MIGRATION OF DUST INTO ADJACENT OCCUPIED AREAS.
13. CONTRACTOR IS TO REMOVE ALL SIGNAGE AND SIGNAGE SUPPORTS DURING DEMOLITION AND RETURN TO THE OWNER.
14. ALL MATERIALS, FIXTURES, CASEWORK, EQUIPMENT, AND OTHER ITEMS REMOVED FROM THE AREAS OF DEMOLITION ARE AND SHALL REMAIN THE PROPERTY OF THE OWNER UNLESS OTHERWISE STIPULATED BY THE OWNER OR ARCHITECT.
15. IF THE CONTRACTOR ENCOUNTERS ANY MATERIAL SUSPECTED TO CONTAIN ASBESTOS, THE OWNER SHALL BE NOTIFIED IMMEDIATELY. THE OWNER SHALL BE RESPONSIBLE FOR ALL ASBESTOS REMOVAL.
16. ANY EXISTING ITEM NOT SCHEDULED FOR REMOVAL WHICH IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO MATCH ADJACENT SURFACES AT NO COST TO OWNER.
17. COORDINATE REMOVAL OF ALL FURNITURE AND EQUIPMENT IN PROJECT AREA WITH OWNER PRIOR TO CONSTRUCTION.
18. CONTRACTOR TO REMOVE AND RETURN TO OWNER ALL TOILET ACCESSORIES TO INCLUDE BUT NOT LIMITED TO SOAP DISPENSERS, TOILET PAPER DISPENSERS, PAPER TOWEL DISPENSERS, HAND SANITIZER DISPENSERS, MIRRORS, SHOWER CURTAIN TRACKS, COAT HOOKS, COAT RACKS, ETC.
19. ANY EXISTING CONSTRUCTION TO REMAIN IS TO BE PROTECTED FOR THE DURATION OF THE CONSTRUCTION PROCESS.
20. WHERE NEW ELEMENTS (ARCHITECTURAL, STRUCTURAL, MECHANICAL, OR OTHER) ATTACH TO EXISTING STRUCTURE, REMOVE EXISTING FIRE-PROOFING AS REQUIRED TO COMPLETE THE ATTACHMENT. PATCH THE AREA OF DAMAGED FIRE-PROOFING AFTER COMPLETING INSTALLATION OF THE NEW ATTACHMENT.
21. REFERENCE MECHANICAL DRAWINGS FOR PHASING OF INFASTRUCTURE REMOVAL AS IT RELATES TO CONSTRUCTION PHASING.

KEYNOTES

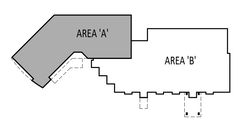
1. EXISTING SECOND FLOOR ENTRANCE.
2. NO WORK THIS ROOM.
3. FIRST FLOOR ROOF.
4. EXISTING MOBILE CT CANOPY.
5. DEMO ALL EXISTING FINISHES.

DEMOLITION LEGEND



KEYPLAN

NOT TO SCALE



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Iliuliuk Family and Health Services

SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

FIRST FLOOR DEMOLITION PLAN - AREA 'A'

IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

A2.1



01 SECOND FLOOR DEMO PLAN - AREA 'A'

A2.2 — 1/8" = 1'-0" — PLAN NORTH — TRUE NORTH

GENERAL NOTES

1. REFERENCE PROJECT MANUAL FOR ADDITIONAL INFORMATION REGARDING SELECTIVE DEMOLITION.
2. BOLD RED DASHED LINES INDICATE ITEMS TO BE REMOVED. REFER TO DEMOLITION NOTES FOR SPECIFIC INSTRUCTIONS.
3. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND SHALL NOTIFY ARCHITECT IMMEDIATELY OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONFIGURATIONS SHOWN IN THE CONSTRUCTION DRAWINGS.
4. INFORMATION REGARDING STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL ITEMS TO BE REMOVED HAS BEEN INCLUDED FOR REFERENCE ONLY. REFER TO STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL CONSTRUCTION DRAWINGS FOR COMPLETE INSTRUCTIONS ON THE REMOVAL OF THESE ITEMS AND SCOPE OF DEMOLITION WORK OUTSIDE OF PROJECT LIMITS SHOWN ON THE ARCHITECTURAL DRAWINGS AS REQUIRED FOR NEW WORK.
5. EXISTING MECHANICAL, PLUMBING AND ELECTRICAL SYSTEMS MUST CONTINUE TO OPERATE AS REQUIRED TO SATISFY OWNER THROUGHOUT THE CONSTRUCTION PERIOD.
6. ALL ADJACENT SURFACES TO THE AREA OF DEMOLITION WHICH ARE SCHEDULED TO REMAIN AND ARE IN ANY MANNER AFFECTED BY THE WORK SHALL BE PATCHED AS REQUIRED TO MATCH THE ADJACENT FINISHED SURFACES.
7. ALL LOCATIONS OF DUCTWORK AND PIPING REMOVAL THROUGH EXISTING WALL CONSTRUCTION SCHEDULED TO REMAIN SHALL BE PATCHED WITH MATERIALS IDENTICAL ADJACENT TO CONSTRUCTION AS REQUIRED FOR UNIFORM TRANSITIONS TO ADJACENT FINISH SURFACES.
8. CONTRACTOR SHALL REMOVE PORTIONS OF EXISTING CONSTRUCTION AS REQUIRED FOR INSTALLATION OF NEW MECHANICAL, PLUMBING AND/OR ELECTRICAL ITEMS AS INDICATED ON MEP DRAWINGS. ALL SURFACES AFFECTED SHALL BE PATCHED UPON COMPLETION OF MECHANICAL, PLUMBING AND/OR ELECTRICAL WORK AS REQUIRED TO MATCH ADJACENT SURFACES.
9. CUTTING AND PATCHING OF EXISTING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING THE WORK FOR WHICH THE CUTTING IS REQUIRED. THE WORK SHALL BE PERFORMED BY A PERSON OR PERSONS SKILLED IN THE TRADE INVOLVED.
10. ALL DEMOLITION DEBRIS SHALL BE DISPOSED OF IN A MANNER ACCEPTABLE TO THE REGULATORY AUTHORITY HAVING JURISDICTION AND OWNER.
11. NOISE AND DUST LEVELS SHALL BE KEPT TO A MINIMUM TO AVOID DISTURBANCES TO ONGOING ACTIVITIES IN THE ADJACENT AREAS.
12. CONTRACTOR SHALL PROVIDE TEMPORARY PARTITION/DOORS AS REQUIRED TO SECURE PROJECT AREA AT ALL TIMES AND AS REQUIRED TO AVOID MIGRATION OF DUST INTO ADJACENT OCCUPIED AREAS.
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14. ALL MATERIALS, FIXTURES, CASEWORK, EQUIPMENT, AND OTHER ITEMS REMOVED FROM THE AREAS OF DEMOLITION ARE AND SHALL REMAIN THE PROPERTY OF THE OWNER UNLESS OTHERWISE STIPULATED BY THE OWNER OR ARCHITECT.
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18. CONTRACTOR TO REMOVE AND RETURN TO OWNER ALL TOILET ACCESSORIES TO INCLUDE BUT NOT LIMITED TO SOAP DISPENSERS, TOILET PAPER DISPENSERS, PAPER TOWEL DISPENSERS, HAND SANITIZER DISPENSERS, MIRRORS, SHOWER CURTAIN TRACKS, COAT HOOKS, COAT RACKS, ETC.
19. ANY EXISTING CONSTRUCTION TO REMAIN IS TO BE PROTECTED FOR THE DURATION OF THE CONSTRUCTION PROCESS.
20. WHERE NEW ELEMENTS (ARCHITECTURAL, STRUCTURAL, MECHANICAL, OR OTHER) ATTACH TO EXISTING STRUCTURE, REMOVE EXISTING FIRE-PROOFING AS REQUIRED TO COMPLETE THE ATTACHMENT. PATCH THE AREA OF DAMAGED FIRE-PROOFING AFTER COMPLETING INSTALLATION OF THE NEW ATTACHMENT.
21. REFERENCE MECHANICAL DRAWINGS FOR PHASING OF INFASTRUCTURE REMOVAL AS IT RELATES TO CONSTRUCTION PHASING.

KEYNOTES

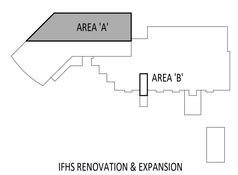
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2. NO WORK THIS ROOM.
3. FIRST FLOOR ROOF.
4. EXISTING MOBILE CT CANOPY.
5. DEMO ALL EXISTING FINISHES.

DEMOLITION LEGEND

- WALL TO BE REMOVED COMPLETE
- DOOR AND FRAME TO BE REMOVED (UNLESS OTHERWISE NOTED)
- LAVATORY/SINK TO BE REMOVED COMPLETE (REFER TO PLUMBING DRAWINGS)
- WATER CLOSET TO BE REMOVED COMPLETE (REFER TO PLUMBING DRAWINGS)
- SHOWER TO BE REMOVED COMPLETE (REFER TO PLUMBING DRAWINGS)
- MOP/CLINICAL SINK TO BE REMOVED COMPLETE (REFER TO PLUMBING DRAWINGS)

KEYPLAN

NOT TO SCALE



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SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

SECOND FLOOR DEMOLITION PLAN - AREA 'A'

IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

A2.2



01 FIRST FLOOR LIFE SAFETY PLAN
A3.1 1/16" = 1'-0"

PLAN NORTH | TRUE NORTH

GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE PAINTED STENCILED MARKINGS ABOVE CEILING IN VISIBLE LOCATIONS AT 10'-0" ON CENTER MAXIMUM SPACING BOTH SIDES AT ALL LOCATIONS AS FOLLOWS:

   MARKINGS AT LOCATIONS OF FIRE BARRIERS AS INDICATED BY TYPE 'FB1' ASSEMBLIES IN CONSTRUCTION DRAWINGS SHALL CONSIST OF RED LETTERS IN 10" (MINIMUM) HIGH TYPE WHICH STATES "FIRE BARRIER - SEAL ALL PENETRATIONS."

   MARKINGS AT LOCATIONS OF SMOKE BARRIERS AS INDICATED BY TYPE 'SB' ASSEMBLIES IN CONSTRUCTION DRAWINGS SHALL CONSIST OF RED LETTERS IN 10" (MINIMUM) HIGH TYPE WHICH STATES "SMOKE BARRIER - SEAL ALL PENETRATIONS."

   MARKINGS AT LOCATIONS OF FIRE BARRIERS AS INDICATED BY TYPE 'FB2' ASSEMBLIES IN CONSTRUCTION DRAWINGS SHALL CONSIST OF RED LETTERS IN 10" (MINIMUM) HIGH TYPE WHICH STATES
   "FIRE BARRIER - SEAL ALL PENETRATIONS."

2. ALL CORRIDOR WALLS SHALL BE SMOKE RESISTIVE PARTITIONS PER THE TYPE 'C' SPECIAL PARTITION ASSEMBLY AS INDICATED ON SHEET A3.3.

3. CONTRACTOR SHALL PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS AS REQUIRED TO MAINTAIN RATING AT ALL PENETRATIONS THROUGH NEW FIRE-RATED ASSEMBLIES. (07840D)

LIFE SAFETY PARTITION LEGEND

ALL CODE ANALYSIS IS BASED ON WORK WITHIN AN EXISTING FACILITY WHICH IS FULLY PROTECTED BY AN APPROVED AUTOMATIC SPRINKLER SYSTEM AND AN APPROVED FIRE ALARM SYSTEM. ALL SAFETY ANALYSIS OUTSIDE THE PROJECT LIMITS HAVE BEEN PROVIDED BY THE OWNER. ALL AREAS WITHIN THE PROJECT LIMITS SHALL BE PROTECTED BY AN APPROVED AUTOMATIC SPRINKLER SYSTEM AND AN APPROVED FIRE ALARM SYSTEM AT THE COMPLETION OF THE PROJECT.

2021 IBC	NFPA-101 - 2000 EDITION
SMOKE PARTITION SMOKE RESISTIVE CONSTRUCTION PER SECTION 710. NON-RATED SELF OR AUTOMATIC CLOSING DOORS. FIRE AND/OR SMOKE DAMPERS NOT REQUIRED.	**SUITE** SUITE DESIGNATION PER SECTION 18.2.5.
1-HOUR SMOKE BARRIER 1 HOUR FIRE-RESISTANCE RATED FIRE BARRIER PER SECTION 709. 20 MINUTE FIRE-RESISTANCE RATED SELF OR AUTOMATIC CLOSING DOORS. FIRE DAMPERS NOT REQUIRED. SMOKE DAMPERS REQUIRED.	**1 HOUR FIRE-RESISTANCE RATED FIRE SMOKE BARRIER** BARRIER PER SECTION 8.3. 20 MINUTE FIRE RESISTANCE RATED SELF OR AUTOMATIC CLOSING DOORS FIRE AND/OR SMOKE DAMPERS NOT REQUIRED.
1-HOUR BARRIER 1 HOUR FIRE-RESISTANCE RATED FIRE BARRIER PER SECTION 707. 45 MINUTE FIRE RESISTANCE RATED SELF OR AUTOMATIC CLOSING DOORS. FIRE DAMPERS REQUIRED. SMOKE DAMPERS NOT REQUIRED.	**1-HOUR BARRIER** 1 HOUR FIRE-RESISTANCE RATED FIRE BARRIER PER SECTION 8.2.3. 45 MINUTE FIRE RESISTANCE RATED SELF OR AUTOMATIC CLOSING DOORS. FIRE AND/OR SMOKE DAMPERS NOT REQUIRED.
2-HOUR FIRE / SMOKE BARRIER 2 HOUR FIRE-RESISTANCE RATED FIRE WALL PER SECTION 706. 90 MINUTE FIRE RESISTANCE RATED SELF OR AUTOMATIC CLOSING DOORS. FIRE DAMPERS AND SMOKE DAMPERS REQUIRED.	**2-HOUR FIRE / SMOKE BARRIER** 2 HOUR FIRE-RESISTANCE RATED FIRE/SMOKE BARRIER WALL PER SECTION 8.2.1 AND 8.3.3 90 MINUTE FIRE RESISTANCE RATED SELF OR AUTOMATIC CLOSING DOORS. FIRE DAMPERS AND SMOKE DAMPERS REQUIRED.

LIFE SAFETY LEGEND

FE — FIRE EXTING/ISHER (WALL BRACKET MOUNTED)

FEC — FIRE EXTING/ISHER (CABINET MOUNTED)

FVC — FIRE VALVE (CABINET MOUNTED)

1-HR RATED EGRESS CORRIDOR (ALL CORRIDOR WALLS SHALL BE 1-HR RATED PARTITIONS)

VERTICAL CIRCULATION

SUITE

EXIT SIGN WITH DIRECTIONAL INDICATOR

SC1.X — DESIGNATES SMOKE COMPARTMENT. SEE LIFE SAFETY PARTITION LEGEND FOR SMOKE BARRIER DELINEATION.

FACP — MAIN CONTROL PANEL (CENTRAL PROCESSING UNIT)

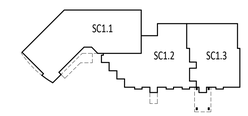
FAA — FIRE ALARM REMOTE ANNUNCIATOR LOCATION

NAC — POWER SUPPLY FOR AUDIO/VISUAL DEVICES

SIAMESE CONNECTION FIRE DEPARTMENT

SMOKE COMPARTMENTS

NOT TO SCALE



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SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

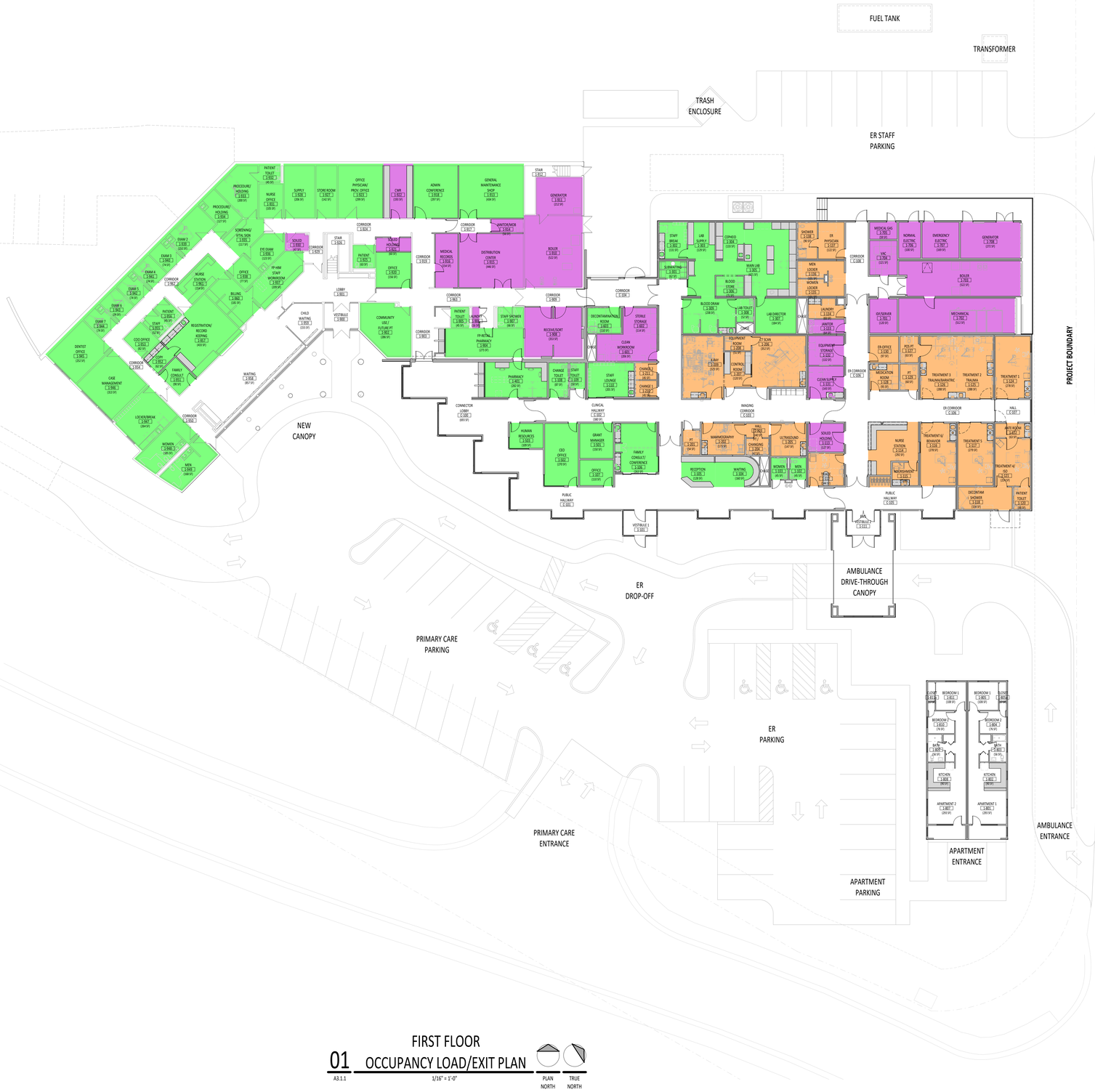
FIRST FLOOR LIFE SAFETY PLAN
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

A3.1

OCCUPANT LOAD - FIRST FLOOR			
FUNCTION OF SPACE	AREA	OCCUPANT LOAD FACTOR	OCCUPANT LOAD
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	4721 SF	300	16
BUSINESS AREAS	9754 SF	100	98
EGRESS/NON-OCCUPIED SPACE	11268 SF	0	0
INSTITUTIONAL AREAS - INPATIENT TREATMENT AREAS	4640 SF	240	19
GRAND TOTAL	30382 SF		133

IBC 2021 - SECTION 1005.3.2 - EGRESS WIDTH				
Level	# of Occupants	Inches/ Occupant	Required	Provided
First	133	0.2	26.6"	294"



01 FIRST FLOOR OCCUPANCY LOAD/EXIT PLAN
A3.1.1 — 1/16" = 1'-0" — PLAN NORTH — TRUE NORTH

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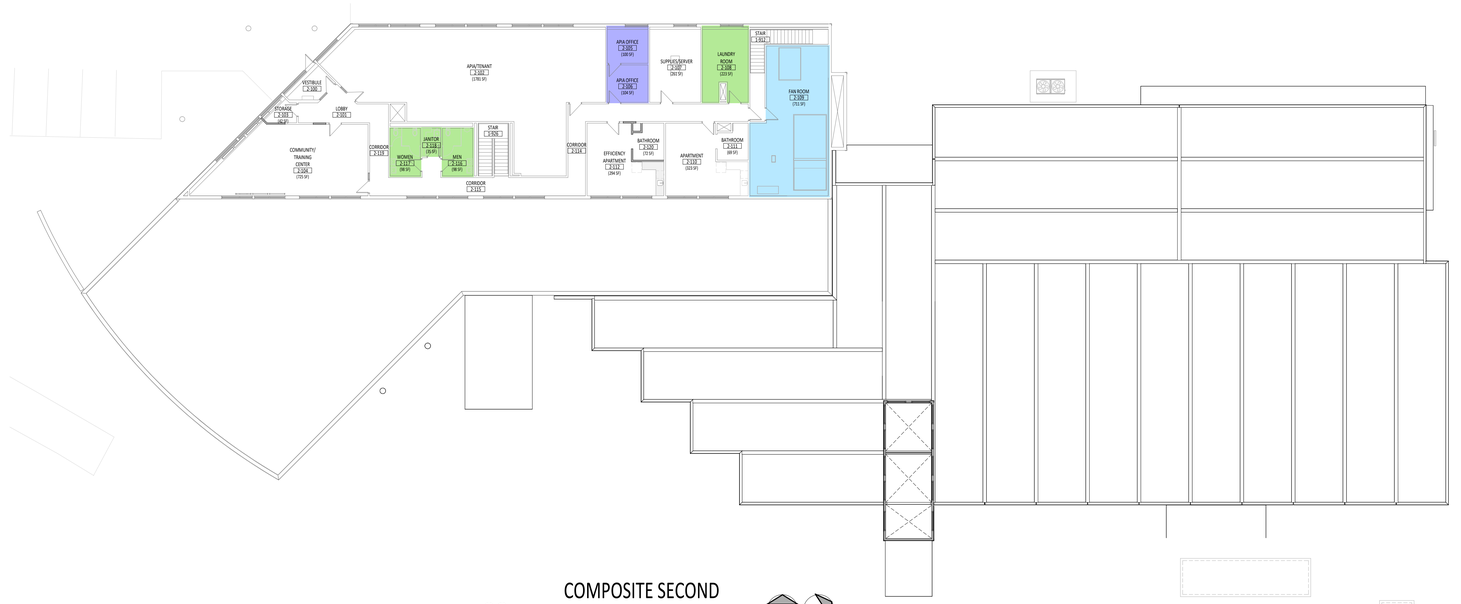
Iliuliuk Family and Health Services

SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

FIRST FLOOR OCCUPANCY LOAD/EXIT PLAN
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
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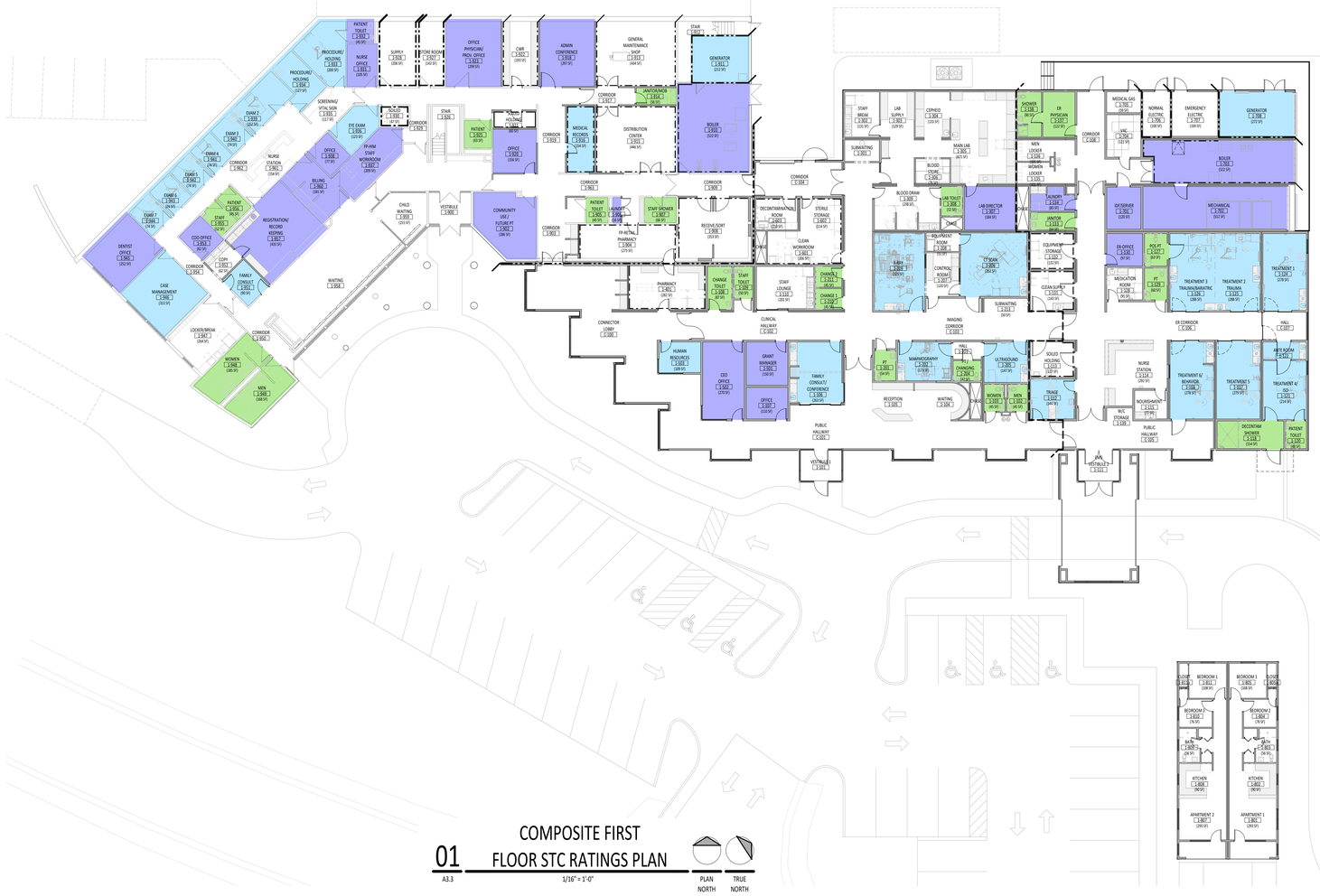
A3.1.1



COMPOSITE SECOND FLOOR STC RATINGS PLAN

02 A3.3 — 1/16" = 1'-0"

PLAN NORTH / TRUE NORTH



COMPOSITE FIRST FLOOR STC RATINGS PLAN

01 A3.3 — 1/16" = 1'-0"

PLAN NORTH / TRUE NORTH

STC RATINGS

1. ROOMS HIGHLIGHTED SHALL HAVE PERIMETER WALLS AND FLOOR CONSTRUCTED WITH SOUND BATTS WITHIN WALL CAVITY. SEE SPECIFICATIONS.
2. WHERE SOUND WALLS OVERLAP WITH RATED WALLS, WALL RATING CONSTRUCTION SHALL TAKE PRIORITY OVER WALL ASSEMBLY CONSTRUCTION. SOUND BATTS ARE STILL REQUIRED AND RATED BATTS SHALL BE INSTALLED. SEE SPECIFICATIONS.
3. SEE SOUND BATT SPECIFICATION FOR MINIMUM STC REQUIREMENTS.
4. INSTALL SOUND BATTS HORIZONTALLY ABOVE CEILING, GYPSUM BOARD OR ACT, A MINIMUM OF 3'-0" ON EITHER SIDE OF SOUND WALL.
5. SEE A3.1 LIFE SAFETY PLAN FOR FULL INFORMATION REGARDING RATED WALL CLASSIFICATIONS.
6. SEE FGI 2022 TABLE 1.2-6 FOR FULL INFORMATION REGARDING DESIGN CRITERIA FOR MINIMUM SOUND ISOLATION PERFORMANCE BETWEEN ENCLOSED ROOMS.

STC RATINGS LEGEND

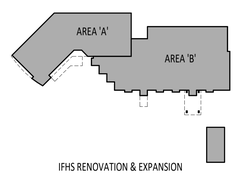
- STC 40 — TOILET ROOMS, CHANGING ROOMS, JANITOR
- STC 45 — OFFICES, LAUNDRY, MECHANICAL ROOMS
- STC 50 — TREATMENT ROOMS, EXAM ROOMS, CONSULTATION, MECHANICAL ROOMS

LIFE SAFETY SYMBOLS

- EXISTING 1-HOUR RATED FIRE/ SMOKE BARRIER
- NEW 1-HOUR RATED FIRE/ SMOKE BARRIER
- EXISTING 1-HOUR RATED FIRE BARRIER
- NEW 1-HOUR RATED FIRE BARRIER
- EXISTING 2-HOUR RATED FIRE BARRIER
- NEW 2-HOUR RATED FIRE BARRIER

KEYPLAN

NOT TO SCALE



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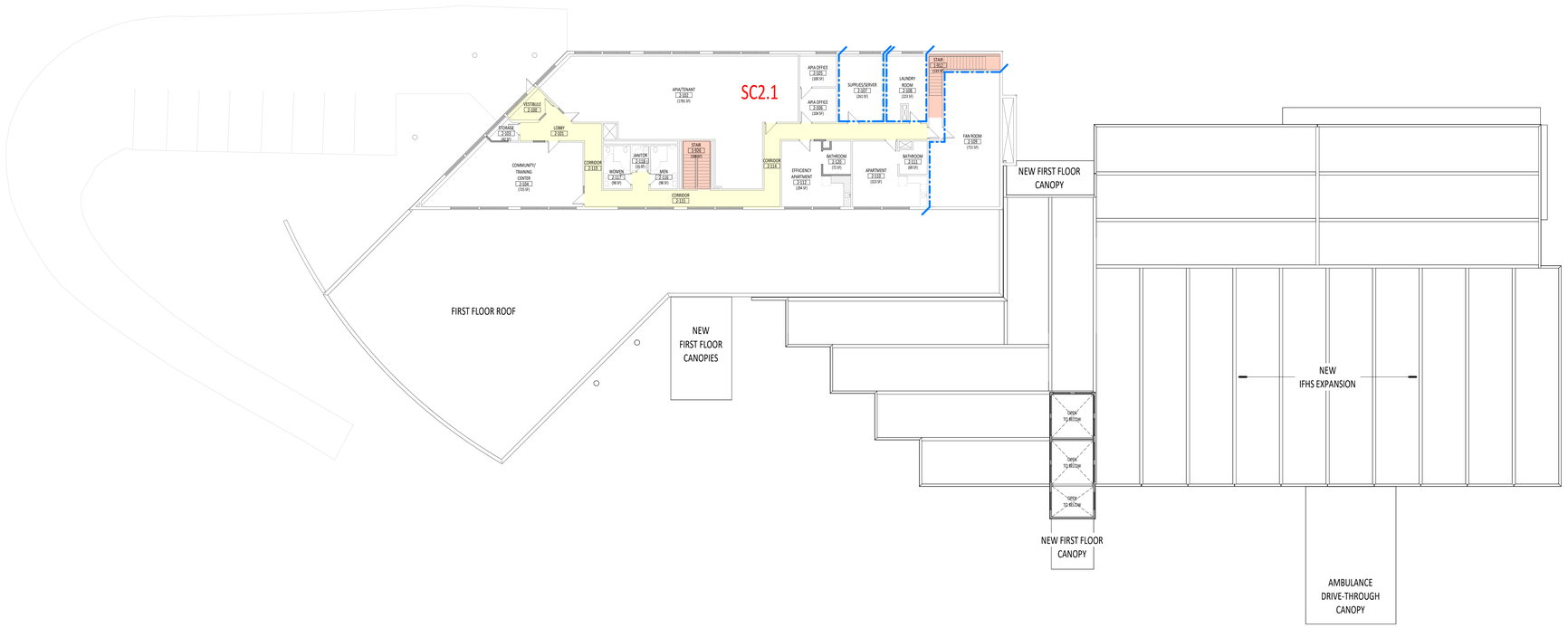
Iliuliuk Family and Health Services

SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

COMPOSITE STC RATINGS PLANS
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

A3.3



02 LEVEL TWO LIFE SAFETY PLAN
A3.2 1/16" = 1'-0"
PLAN NORTH TRUE NORTH

GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE PAINTED STENCILED MARKINGS ABOVE CEILING IN VISIBLE LOCATIONS AT 10'-0" ON CENTER MAXIMUM SPACING BOTH SIDES AT ALL LOCATIONS AS FOLLOWS:

   MARKINGS AT LOCATIONS OF FIRE BARRIERS AS INDICATED BY TYPE 'FB1' ASSEMBLIES IN CONSTRUCTION DRAWINGS SHALL CONSIST OF RED LETTERS IN 10" (MINIMUM) HIGH TYPE WHICH STATES "FIRE BARRIER - SEAL ALL PENETRATIONS."

   MARKINGS AT LOCATIONS OF SMOKE BARRIERS AS INDICATED BY TYPE 'SB' ASSEMBLIES IN CONSTRUCTION DRAWINGS SHALL CONSIST OF RED LETTERS IN 10" (MINIMUM) HIGH TYPE WHICH STATES "SMOKE BARRIER - SEAL ALL PENETRATIONS."

   MARKINGS AT LOCATIONS OF FIRE BARRIERS AS INDICATED BY TYPE 'FB2' ASSEMBLIES IN CONSTRUCTION DRAWINGS SHALL CONSIST OF RED LETTERS IN 10" (MINIMUM) HIGH TYPE WHICH STATES
   "FIRE BARRIER - SEAL ALL PENETRATIONS."

2. ALL CORRIDOR WALLS SHALL BE SMOKE RESISTIVE PARTITIONS PER THE TYPE 'C' SPECIAL PARTITION ASSEMBLY AS INDICATED ON SHEET A3.3.

3. CONTRACTOR SHALL PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS AS REQUIRED TO MAINTAIN RATING AT ALL PENETRATIONS THROUGH NEW FIRE-RATED ASSEMBLIES. (078400)

LIFE SAFETY PARTITION LEGEND

ALL CODE ANALYSIS IS BASED ON WORK WITHIN AN EXISTING FACILITY WHICH IS FULLY PROTECTED BY AN APPROVED AUTOMATIC SPRINKLER SYSTEM AND AN APPROVED FIRE ALARM SYSTEM. ALL SAFETY ANALYSIS OUTSIDE THE PROJECT LIMITS HAVE BEEN PROVIDED BY THE OWNER. ALL AREAS WITHIN THE PROJECT LIMITS SHALL BE PROTECTED BY AN APPROVED AUTOMATIC SPRINKLER SYSTEM AND AN APPROVED FIRE ALARM SYSTEM AT THE COMPLETION OF THE PROJECT.

2021 IBC	NFPA-101 - 2000 EDITION
SMOKE PARTITION SMOKE RESISTIVE CONSTRUCTION PER SECTION 710. NON-RATED SELF OR AUTOMATIC CLOSING DOORS. FIRE AND/OR SMOKE DAMPERS NOT REQUIRED.	**SUITE** SUITE DESIGNATION PER SECTION 18.2.5.
1-HOUR SMOKE BARRIER 1 HOUR FIRE-RESISTANCE RATED FIRE BARRIER PER SECTION 709. 20 MINUTE FIRE-RESISTANCE RATED SELF OR AUTOMATIC CLOSING DOORS. FIRE DAMPERS NOT REQUIRED. SMOKE DAMPERS REQUIRED.	**1 HOUR FIRE-RESISTANCE RATED FIRE SMOKE BARRIER** BARRIER PER SECTION 8.3. 20 MINUTE FIRE RESISTANCE RATED SELF OR AUTOMATIC CLOSING DOORS FIRE AND/OR SMOKE DAMPERS NOT REQUIRED.
1-HOUR FIRE BARRIER 1 HOUR FIRE-RESISTANCE RATED FIRE BARRIER PER SECTION 707. 45 MINUTE FIRE RESISTANCE RATED SELF OR AUTOMATIC CLOSING DOORS. FIRE DAMPERS REQUIRED. SMOKE DAMPERS NOT REQUIRED.	**1-HOUR FIRE BARRIER** 1 HOUR FIRE-RESISTANCE RATED FIRE BARRIER PER SECTION 8.2.3. 45 MINUTE FIRE RESISTANCE RATED SELF OR AUTOMATIC CLOSING DOORS. FIRE AND/OR SMOKE DAMPERS NOT REQUIRED.
2-HOUR FIRE / SMOKE BARRIER 2 HOUR FIRE-RESISTANCE RATED FIRE WALL PER SECTION 706. 90 MINUTE FIRE RESISTANCE RATED SELF OR AUTOMATIC CLOSING DOORS. FIRE DAMPERS AND SMOKE DAMPERS REQUIRED.	**2-HOUR FIRE / SMOKE BARRIER** 2 HOUR FIRE-RESISTANCE RATED FIRE/SMOKE BARRIER WALL PER SECTION 8.2.1 AND 8.3.3 90 MINUTE FIRE RESISTANCE RATED SELF OR AUTOMATIC CLOSING DOORS. FIRE DAMPERS AND SMOKE DAMPERS REQUIRED.

LIFE SAFETY LEGEND

FE — FIRE EXTINGUISHER (WALL BRACKET MOUNTED)

FEC — FIRE EXTINGUISHER (CABINET MOUNTED)

FVC — FIRE VALVE (CABINET MOUNTED)

1-HR RATED EGRESS CORRIDOR (ALL CORRIDOR WALLS SHALL BE 1-HR RATED PARTITIONS)

VERTICAL CIRCULATION

SUITE

EXIT SIGN WITH DIRECTIONAL INDICATOR

SC1.X — DESIGNATES SMOKE COMPARTMENT. SEE LIFE SAFETY PARTITION LEGEND FOR SMOKE BARRIER DELINEATION.

FACP — MAIN CONTROL PANEL (CENTRAL PROCESSING UNIT)

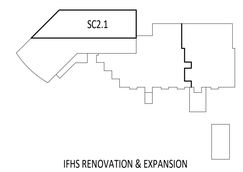
FAA — FIRE ALARM REMOTE ANNUNCIATOR LOCATION

NAC — POWER SUPPLY FOR AUDIO/VISUAL DEVICES

SIAMESE CONNECTION FIRE DEPARTMENT

SMOKE COMPARTMENTS

NOT TO SCALE



IFHS RENOVATION & EXPANSION

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Iliuliuk Family and Health Services

SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

SECOND FLOOR LIFE SAFETY PLAN
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

A3.2

OCCUPANT LOAD - SECOND FLOOR			
FUNCTION OF SPACE	AREA	OCCUPANT LOAD FACTOR	OCCUPANT LOAD
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	1051 SF	300	4
BUSINESS AREAS	3888 SF	100	39
EGRESS/NON-OCCUPIED SPACE	858 SF	0	0
GRAND TOTAL	5796 SF		43

IBC 2021 - SECTION 1005.3.2 - EGRESS WIDTH				
Level	# of Occupants	Inches/ Occupant	Required	Provided
Second	43	0.2	8.6"	34"



01 SECOND FLOOR OCCUPANCY LOAD/EXIT PLAN
A3.2.1 1/16" = 1'-0"
PLAN NORTH TRUE NORTH

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IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

A3.2.1



02 SECOND FLOOR DEPARTMENTAL PLAN
A4.0 1/16" = 1'-0"
PLAN NORTH TRUE NORTH

TRASH ENCLOSURE

ER STAFF PARKING



01 FIRST FLOOR DEPARTMENTAL PLAN
A4.0 1/16" = 1'-0"
PLAN NORTH TRUE NORTH

LEGEND

- Emergency Department & Urgent Care Services
- Primary Care Clinic - 3 Healthcare Providers - Renovation
- Primary Care Clinic - 3 Healthcare Providers - Existing
- Diagnosis & Imaging Department
- Laboratory Department
- Pharmacy Department
- Administration
- Central Sterile Processing
- Mechanical-Central Plant
- Ambulance & EMS
- Plant Operation & Materials Management
- Retail Pharmacy
- Community Center
- APIA Tenant
- Hospital Housing
- Waiting/Circulation

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DEPARTMENT PLANS
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

A4.0



GENERAL NOTES

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5. ALL DIMENSIONS ARE FROM FINISHED FACE OF WALL-TO-FINISHED FACE OF WALL UNLESS OTHERWISE NOTED.
6. PROVIDE MOISTURE RESISTANT GYPSUM BOARD BEHIND AND WITHIN THREE FEET OF ANY PLUMBING FIXTURE TO A HEIGHT OF 8'-0" A.F.F.
7. ALL INTERIOR PARTITIONS SHALL BE TYPE 4bC UNLESS OTHERWISE NOTED. AT LOCATIONS WHERE THERE IS ONLY ONE SIDE OF THE INTERIOR PARTITION FACING AN UNOCCUPIABLE SPACE, THE INTERIOR PARTITION SHALL BE 4aC UNLESS OTHERWISE NOTED. ALL DEMISING WALLS BETWEEN PATIENT ROOM-TO-PATIENT ROOM OR PATIENT TOILET/SHOWER-TO-PATIENT TOILET/SHOWER SHALL MEET THE REQUIREMENTS OF WALL TYPE MODIFIER 'H'.
8. REFERENCE PARITION DETAILS SHEET FOR STC REQUIREMENTS.
9. CONTRACTOR SHALL PROVIDE THROUGH PENETRATION FIRESTOP SYSTEMS AS REQUIRED TO MAINTAIN RATING AT ALL PENETRATIONS THROUGH NEW FIRE RATED ASSEMBLIES.
10. ADD CONCRETE TOPPING AS REQUIRED TO LEVEL OUT FLOOR WHERE WALLS HAVE BEEN DEMOLISHED AND/OR WHERE FLOOR IS UNEVEN.
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12. ALL WALLS AT ELECTRICAL ROOMS TO BE FULL HEIGHT WALLS AT LOCATIONS WHERE THERE ARE EXISTING WALLS, PROVIDE TOP OFF AS REQUIRED TO MEET REQUIREMENTS OF FULL HEIGHT WALL, TYPE 'H' MODIFIER AS NOTED ON PARTITION DETAILS SHEET.
13. REFERENCE SPECIFICATION SECTION 108000 FOR TOILET ACCESSORY ITEMS DEFINED BY THE TA-X TAG.
14. ALIGN NEW WALLS WITH EXISTING AS SHOWN ON PLANS TO PROVIDE A CONTINUOUS SMOOTH SURFACE.
15. PROVIDE CAULK AT ALL GAPS, MATERIAL TRANSITIONS AND DOOR FRAMES THROUGHOUT PROJECT, REFERENCE SPECIFICATIONS FOR ADDITIONAL LOCATIONS.
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   ITEMS INCLUDE BUT NOT LIMITED TO:
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19. CLEAN ALL EXISTING WINDOWS AND WINDOW FRAMES WITHIN PROJECT AREA. PROVIDE NEW SEALANT TO PROVIDE AIR TIGHT CONSTRUCTION.

LIFE SAFETY SYMBOLS

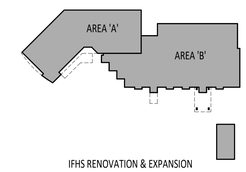
- EXISTING 3-HOUR RATED FIRE/ SMOKE BARRIER
- NEW 1-HOUR RATED FIRE/ SMOKE BARRIER
- EXISTING 1-HOUR RATED FIRE BARRIER
- NEW 1-HOUR RATED FIRE BARRIER
- EXISTING 2-HOUR RATED FIRE BARRIER
- NEW 2-HOUR RATED FIRE BARRIER

FLOOR PLAN LEGEND

- XXXXX.XX — PLAN NOTE
- XXX — EQUIPMENT NUMBER
- XXXXX / XXX — ROOM NAME/ NUMBER
- X / G-X — FRAME ELEVATION/ GLASS TYPE
- 01 — NEW DOOR/ NUMBER
- XX / A8.X — INTERIOR ELEVATION
- XX / AT.X — DETAIL/ SECTION
- XX — PARTITION TYPE
- NEW WALL
- EXISTING WALL

KEYPLAN

NOT TO SCALE



IFHS RENOVATION & EXPANSION

01 A4.1 — COMPOSITE FIRST FLOOR PLAN — 1/16" = 1'-0" — PLAN NORTH — TRUE NORTH

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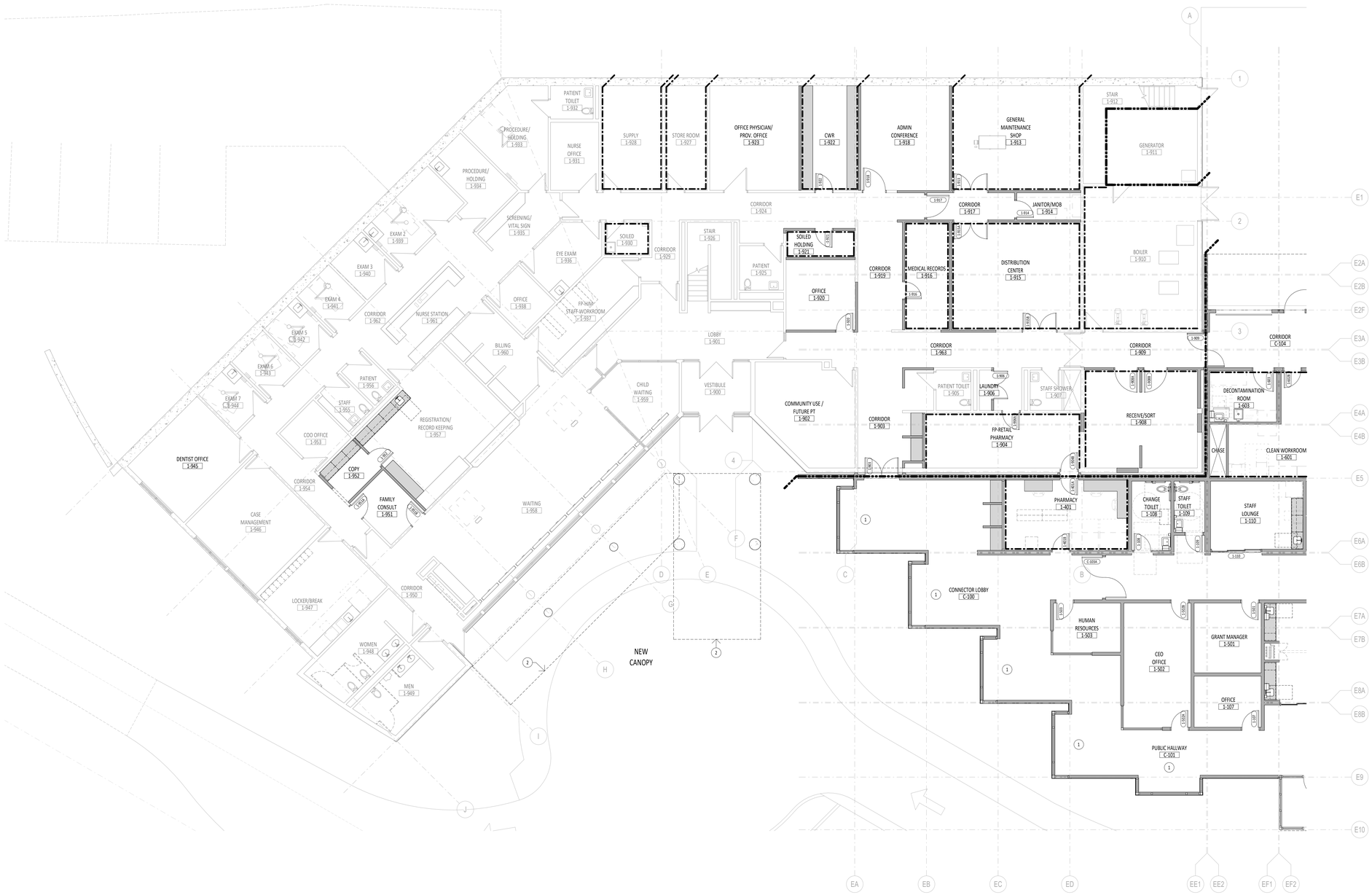
Iliuliuk Family and Health Services

SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

COMPOSITE FIRST FLOOR PLAN
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

A4.1



PARTIAL 01 FIRST FLOOR PLAN - AREA 'A'

A4.1A — 1/8" = 1'-0" — PLAN NORTH — TRUE NORTH

GENERAL NOTES

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6. PROVIDE MOISTURE RESISTANT GYPSUM BOARD BEHIND AND WITHIN THREE FEET OF ANY PLUMBING FIXTURE TO A HEIGHT OF 8'-0" A.F.F.
7. ALL INTERIOR PARTITIONS SHALL BE TYPE 4bc UNLESS OTHERWISE NOTED. AT LOCATIONS WHERE THERE IS ONLY ONE SIDE OF THE INTERIOR PARTITION FACING AN UNOCCUPIABLE SPACE, THE INTERIOR PARTITION SHALL BE 4aC UNLESS OTHERWISE NOTED. ALL DEMOING WALLS BETWEEN PATIENT ROOM-TO-PATIENT ROOM OR PATIENT TOILET/SHOWER-TO-PATIENT TOILET/SHOWER SHALL MEET THE REQUIREMENTS OF WALL TYPE MODIFIER 'H'.
8. REFERENCE PARITION DETAILS SHEET FOR STC REQUIREMENTS.
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13. REFERENCE SPECIFICATION SECTION 108000 FOR TOILET ACCESSORY ITEMS DEFINED BY THE TA-X TAG.
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15. PROVIDE CAULK AT ALL GAPS, MATERIAL TRANSITIONS AND DOOR FRAMES THROUGHOUT PROJECT, REFERENCE SPECIFICATIONS FOR ADDITIONAL LOCATIONS.
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   ITEMS INCLUDE BUT NOT LIMITED TO:
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19. CLEAN ALL EXISTING WINDOWS AND WINDOW FRAMES WITHIN PROJECT AREA. PROVIDE NEW SEALANT TO PROVIDE AIR TIGHT CONSTRUCTION.

KEYNOTES

1. WAITING AREA SHALL BE MONITORED BY CAMERA.
2. NEW FIRST FLOOR CANOPY.
3. YELLOW PAINTED "DECON" ENTRANCE BOUNDARY.

LIFE SAFETY SYMBOLS

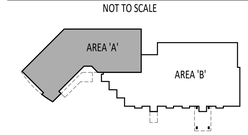
- EXISTING 1-HOUR RATED FIRE/ SMOKE BARRIER
- NEW 1-HOUR RATED FIRE/ SMOKE BARRIER
- EXISTING 1-HOUR RATED FIRE BARRIER
- NEW 1-HOUR RATED FIRE BARRIER
- EXISTING 2-HOUR RATED FIRE BARRIER
- NEW 2-HOUR RATED FIRE BARRIER

FLOOR PLAN LEGEND

- XXXXX.XX — PLAN NOTE
- XXX — EQUIPMENT NUMBER
- XXXXX / XXX — ROOM NAME/ NUMBER
- X / G-X — FRAME ELEVATION/ GLASS TYPE
- 101 — NEW DOOR/ NUMBER
- XX / A#.X — INTERIOR ELEVATION
- XX / A7.X — DETAIL/ SECTION
- XX — PARTITION TYPE
- NEW WALL
- EXISTING WALL

KEYPLAN

NOT TO SCALE



IFHS RENOVATION & EXPANSION

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Iliuliuk Family and Health Services

SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

PARTIAL FIRST FLOOR PLAN - AREA 'A'

IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

A4.1A



01 PARTIAL FIRST FLOOR PLAN - AREA 'B'
A4.1B — 1/8" = 1'-0" — PLAN NORTH — TRUE NORTH

GENERAL NOTES

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7. ALL INTERIOR PARTITIONS SHALL BE TYPE 40c UNLESS OTHERWISE NOTED. AT LOCATIONS WHERE THERE IS ONLY ONE SIDE OF THE INTERIOR PARTITION FACING AN UNOCCUPIABLE SPACE, THE INTERIOR PARTITION SHALL BE 4xC UNLESS OTHERWISE NOTED. ALL DEMISING WALLS BETWEEN PATIENT ROOM-TO-PATIENT ROOM OR PATIENT TOILET/SHOWER-TO-PATIENT TOILET/SHOWER SHALL MEET THE REQUIREMENTS OF WALL TYPE MODIFIER 'H'.
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KEYNOTES

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2. NEW FIRST FLOOR CANOPY.
3. YELLOW PAINTED "DECON" ENTRANCE BOUNDARY.

PROJECT BOUNDARY

LIFE SAFETY SYMBOLS

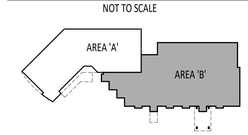
- EXISTING 1-HOUR RATED FIRE/ SMOKE BARRIER
- NEW 1-HOUR RATED FIRE/ SMOKE BARRIER
- EXISTING 1-HOUR RATED FIRE BARRIER
- NEW 1-HOUR RATED FIRE BARRIER
- EXISTING 2-HOUR RATED FIRE BARRIER
- NEW 2-HOUR RATED FIRE BARRIER

FLOOR PLAN LEGEND

- XXXXX.XX — PLAN NOTE
- XXX — EQUIPMENT NUMBER
- XXXXX / XXX — ROOM NAME/ NUMBER
- X / G-X — FRAME ELEVATION/ GLASS TYPE
- 101 — NEW DOOR/ NUMBER
- XX / A4.X — INTERIOR ELEVATION
- XX / A7.X — DETAIL/ SECTION
- XX — PARTITION TYPE
- NEW WALL
- EXISTING WALL

KEYPLAN

NOT TO SCALE



IFHS RENOVATION & EXPANSION

STENGEL - HILL

Architect
STENGEL HILL
9020 OVERLOOK BLVD, SUITE 203
BRENTWOOD, TN 37027
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Modular Design Architect
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Civil Engineering
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MPET Engineering
CMTA
9519 CIVIC WAY, SUITE 100
PROSPECT, KY 40059
502.326.3085

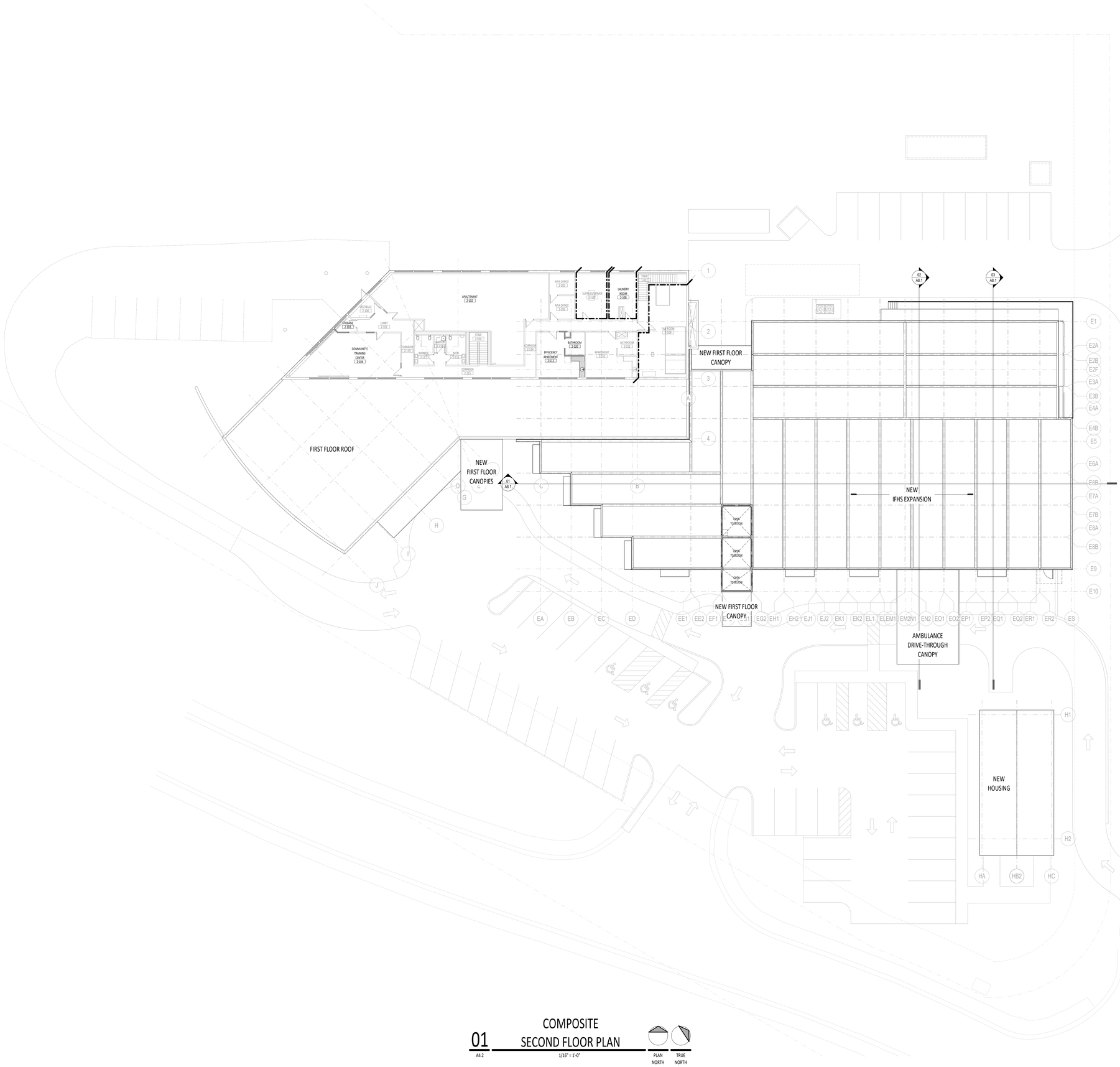
Iliuliuk Family and Health Services

SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

PARTIAL FIRST FLOOR PLAN - AREA 'B'
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

A4.1B



GENERAL NOTES

1. REFERENCE PROJECT MANUAL FOR ADDITIONAL PROJECT INFORMATION / REQUIREMENTS.
2. REFERENCE VENDOR, STRUCTURAL, EQUIPMENT, MECHANICAL, PLUMBING AND ELECTRICAL FOR DELINEATION OF ALL ASSEMBLIES WITHIN THEIR RESPECTIVE PORTIONS OF WORK.
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4. CONTRACTOR SHALL VERIFY THE FINAL CONFIGURATION OF ALL EQUIPMENT, INCLUDING CONTRACTOR FURNISHED ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL ITEMS ASSOCIATED WITH EQUIPMENT, WITH OWNER AND ARCHITECT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
5. ALL DIMENSIONS ARE FROM FINISHED FACE OF WALL-TO-FINISHED FACE OF WALL UNLESS OTHERWISE NOTED.
6. PROVIDE MOISTURE RESISTANT GYPSUM BOARD BEHIND AND WITHIN THREE FEET OF ANY PLUMBING FIXTURE TO A HEIGHT OF 8'-0" A.F.F.
7. ALL INTERIOR PARTITIONS SHALL BE TYPE 4bC UNLESS OTHERWISE NOTED. AT LOCATIONS WHERE THERE IS ONLY ONE SIDE OF THE INTERIOR PARTITION FACING AN UNOCCUPIABLE SPACE, THE INTERIOR PARTITION SHALL BE 4aC UNLESS OTHERWISE NOTED. ALL DEMISING WALLS BETWEEN PATIENT ROOM-TO-PATIENT ROOM OR PATIENT TOILET/SHOWER-TO-PATIENT TOILET/SHOWER SHALL MEET THE REQUIREMENTS OF WALL TYPE MODIFIER 'H'.
8. REFERENCE PARITION DETAILS SHEET FOR STC REQUIREMENTS.
9. CONTRACTOR SHALL PROVIDE THROUGH PENETRATION FIRESTOP SYSTEMS AS REQUIRED TO MAINTAIN RATING AT ALL PENETRATIONS THROUGH NEW FIRE RATED ASSEMBLIES.
10. ADD CONCRETE TOPPING AS REQUIRED TO LEVEL OUT FLOOR WHERE WALLS HAVE BEEN DEMOLISHED AND/OR WHERE FLOOR IS UNEVEN.
11. EXISTING CONSTRUCTION TO REMAIN SHALL BE PATCHED AND REPAIRED AS REQUIRED TO RECEIVE NEW FINISHES.
12. ALL WALLS AT ELECTRICAL ROOMS TO BE FULL HEIGHT WALLS AT LOCATIONS WHERE THERE ARE EXISTING WALLS, PROVIDE TOP OFF AS REQUIRED TO MEET REQUIREMENTS OF FULL HEIGHT WALL, TYPE 'H' MODIFIER AS NOTED ON PARTITION DETAILS SHEET.
13. REFERENCE SPECIFICATION SECTION 10800 FOR TOILET ACCESSORY ITEMS DEFINED BY THE TA-X TAG.
14. ALIGN NEW WALLS WITH EXISTING AS SHOWN ON PLANS TO PROVIDE A CONTINUOUS SMOOTH SURFACE.
15. PROVIDE CAULK AT ALL GAPS, MATERIAL TRANSITIONS AND DOOR FRAMES THROUGHOUT PROJECT, REFERENCE SPECIFICATIONS FOR ADDITIONAL LOCATIONS.
16. CONTRACTOR TO REINSTALL ANY FLOOR, CEILING OR WALL MOUNTED EQUIPMENT REMOVED TO ACCOMMODATE SCOPE OF NEW WORK.
17. REFERENCE INTERIOR DESIGN DRAWINGS AND SPECIFICATIONS FOR FLOOR, BASE, WALL, CEILING AND SPECIALTY FINISHES THROUGHOUT THE PROJECT AREA.
18. CONTRACTOR SHALL PROVIDE, COORDINATE AND INSTALL BLOCKING (061000) AS REQUIRED FOR SUPPORT OF ALL WALL MOUNTED AND CEILING MOUNTED O.F.O.I., O.F.C.I., O.F.V.I., V.F.V.I., AND C.F.C.I. EQUIPMENT.

    ITEMS INCLUDE BUT NOT LIMITED TO:
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19. CLEAN ALL EXISTING WINDOWS AND WINDOW FRAMES WITHIN PROJECT AREA. PROVIDE NEW SEALANT TO PROVIDE AIR TIGHT CONSTRUCTION.

LIFE SAFETY SYMBOLS

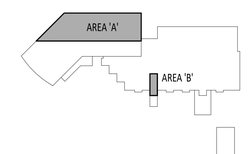
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- NEW 1-HOUR RATED FIRE BARRIER
- EXISTING 2-HOUR RATED FIRE BARRIER
- NEW 2-HOUR RATED FIRE BARRIER

FLOOR PLAN LEGEND

- XXXXX.XX — PLAN NOTE
- XXX — EQUIPMENT NUMBER
- XXXXX / XXX — ROOM NAME/ NUMBER
- X / G-X — FRAME ELEVATION/ GLASS TYPE
- B — NEW DOOR/ NUMBER
- X / A8.X — INTERIOR ELEVATION
- XX / A1.X — DETAIL/ SECTION
- XX — PARTITION TYPE
- NEW WALL
- EXISTING WALL

KEYPLAN

NOT TO SCALE



IFHS RENOVATION & EXPANSION

01 A4.2 COMPOSITE SECOND FLOOR PLAN

1/16" = 1'-0"

PLAN NORTH | TRUE NORTH

STENGEL - HILL

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Iliuliuk Family and Health Services

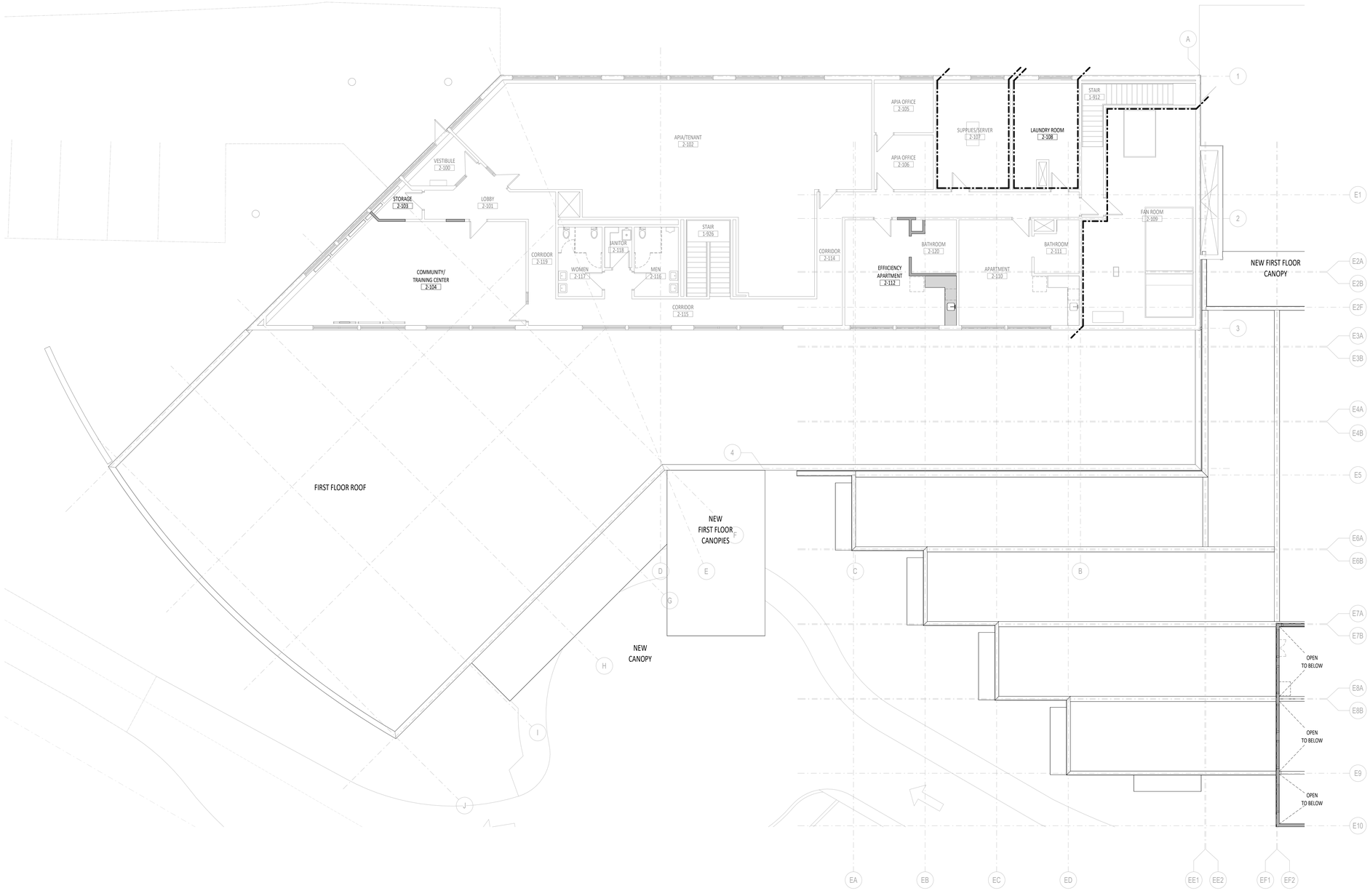
SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

COMPOSITE SECOND FLOOR PLAN

IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

A4.2



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KEYNOTES

1. WAITING AREA SHALL BE MONITORED BY CAMERA.
2. NEW FIRST FLOOR CANOPY.
3. YELLOW PAINTED "DECON" ENTRANCE BOUNDARY.

LIFE SAFETY SYMBOLS

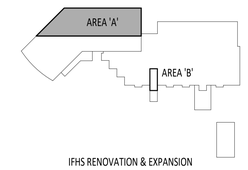
EXISTING 1-HOUR RATED FIRE/ SMOKE BARRIER
NEW 1-HOUR RATED FIRE/ SMOKE BARRIER
EXISTING 1-HOUR RATED FIRE BARRIER
NEW 1-HOUR RATED FIRE BARRIER
EXISTING 2-HOUR RATED FIRE BARRIER
NEW 2-HOUR RATED FIRE BARRIER

FLOOR PLAN LEGEND

XXXXX.XX PLAN NOTE
XXX EQUIPMENT NUMBER
XXXXX / XXX ROOM NAME/ NUMBER
X / G-X FRAME ELEVATION/ GLASS TYPE
XXX NEW DOOR/ NUMBER
XX / A#.X INTERIOR ELEVATION
XX / A7.X DETAIL/ SECTION
XX PARTITION TYPE
NEW WALL
EXISTING WALL

KEYPLAN

NOT TO SCALE



IFHS RENOVATION & EXPANSION

PARTIAL
01 SECOND FLOOR PLAN - AREA 'A'
A4.2A
1/8" = 1'-0"
PLAN NORTH
TRUE NORTH

STENGEL - HILL

Architect
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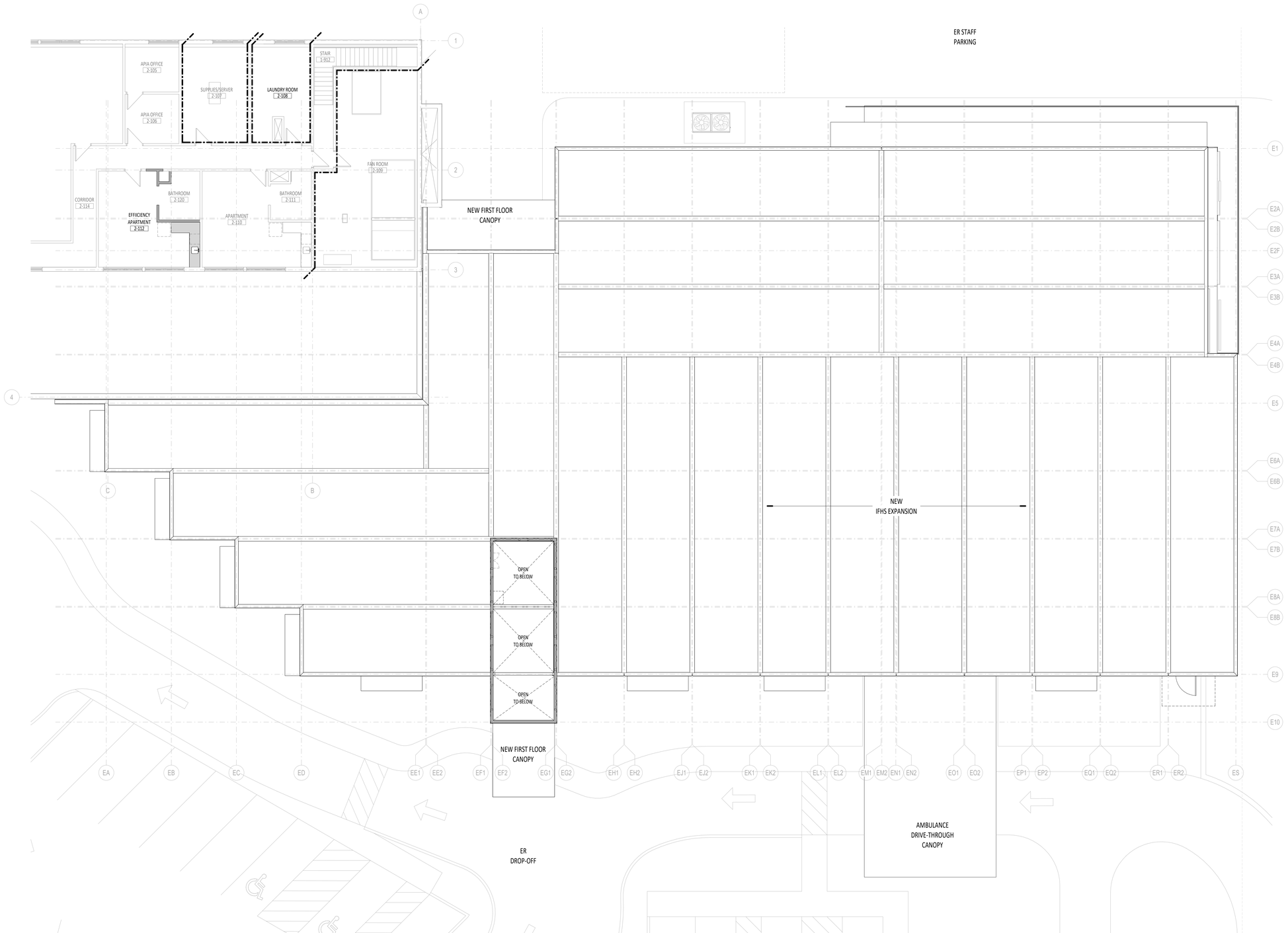
Iliuliuk Family and Health Services

SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

PARTIAL SECOND FLOOR PLAN - AREA 'A'
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

A4.2A



PARTIAL
01 SECOND FLOOR PLAN - AREA 'B'
A4.2B — 1/8" = 1'-0" — PLAN NORTH — TRUE NORTH

GENERAL NOTES

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6. PROVIDE MOISTURE RESISTANT GYPSUM BOARD BEHIND AND WITHIN THREE FEET OF ANY PLUMBING FIXTURE TO A HEIGHT OF 8'-0" A.F.F.
7. ALL INTERIOR PARTITIONS SHALL BE TYPE 40c UNLESS OTHERWISE NOTED. AT LOCATIONS WHERE THERE IS ONLY ONE SIDE OF THE INTERIOR PARTITION FACING AN UNOCCUPIABLE SPACE, THE INTERIOR PARTITION SHALL BE 4xC UNLESS OTHERWISE NOTED. ALL DEMISING WALLS BETWEEN PATIENT ROOM-TO-PATIENT ROOM OR PATIENT TOILET/SHOWER-TO-PATIENT TOILET/SHOWER SHALL MEET THE REQUIREMENTS OF WALL TYPE MODIFIER 'H'.
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KEYNOTES

1. WAITING AREA SHALL BE MONITORED BY CAMERA.
2. NEW FIRST FLOOR CANOPY.
3. YELLOW PAINTED "DECON" ENTRANCE BOUNDARY.

PROJECT BOUNDARY

LIFE SAFETY SYMBOLS

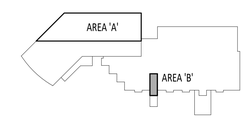
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- NEW 1-HOUR RATED FIRE BARRIER
- EXISTING 2-HOUR RATED FIRE BARRIER
- NEW 2-HOUR RATED FIRE BARRIER

FLOOR PLAN LEGEND

- XXXXX.XX — PLAN NOTE
- XXX — EQUIPMENT NUMBER
- XXXXX / XXX — ROOM NAME/ NUMBER
- X / G-X — FRAME ELEVATION/ GLASS TYPE
- XX — NEW DOOR/ NUMBER
- XX / A#.X — INTERIOR ELEVATION
- XX / A7.X — DETAIL/ SECTION
- XX — PARTITION TYPE
- NEW WALL
- EXISTING WALL

KEYPLAN

NOT TO SCALE



IFHS RENOVATION & EXPANSION

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Architect
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Iliuliuk Family and Health Services

SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

PARTIAL SECOND FLOOR PLAN - AREA 'B'

IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

A4.2B



GENERAL NOTES

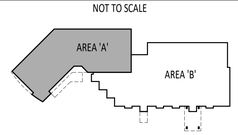
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3. ALL DIMENSIONS ARE FROM FINISH FACE OF WALL TO FINISHED FACE OF WALL UNLESS OTHERWISE NOTED.
4. ARCHITECTURAL CEILING PLANS SHALL GOVERN OVER ELECTRICAL, AV, MECHANICAL AND PLUMBING PLANS REGARDING EXACT LOCATIONS OF CEILING GRIDS, LIGHT FIXTURES, DIFFUSERS AND OTHER CEILING MOUNTED ITEMS. DISCREPANCIES IN QUANTITY AND/OR ORIENTATION BETWEEN ARCHITECTURAL, ELECTRICAL, MECHANICAL AND/OR PLUMBING DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE SUBMISSION OF PRICING. CONTRACTOR SHALL VERIFY FINAL LOCATIONS OF ALL CEILING AND WALL MOUNTED ITEMS WITH THE ARCHITECT AND ENGINEER PRIOR TO THE COMMENCEMENT OF WORK. ANY ITEMS INCORRECTLY PLACED WITHOUT THE VERIFICATION OF THE ARCHITECT AND ENGINEER SHALL BE RELOCATED PER DIRECTION OF THE ARCHITECT AT NO EXPENSE TO THE PROJECT.
5. ALL CEILING MOUNTED ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, ETC...) SHALL BE CENTERED IN CEILING TILES, SOFFITS OR GYPSUM WALLBOARD CEILINGS AND/OR ALIGNED WITH ADJACENT CEILING MOUNTED ITEMS UNLESS OTHERWISE NOTED.
6. COORDINATE PLACEMENT OF GYPSUM WALLBOARD CONTROL JOINTS WITH ARCHITECT PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTROL JOINTS SHALL BE WHERE INDICATED AND/OR SPACING SHALL NOT EXCEED 20'-0".
7. CONTRACTOR SHALL VERIFY FINAL CONFIGURATION OF ALL EQUIPMENT, INCLUDING CONTRACTOR FURNISHED, STRUCTURAL, AND ELECTRICAL ITEMS ASSOCIATED WITH EQUIPMENT, WITH OWNER AND ARCHITECT PRIOR TO COMMENCEMENT CONSTRUCTION.
8. A CUT 2' - 0" X 4' - 0" CEILING TILE SHALL BE USED IN ANY ROOM WHERE 2' - 0" X 2'- 0" CEILING GRID CREATES AN EDGE CONDITION OF A CEILING TILE BEING LESS THAN 6".
9. CONTRACTOR SHALL PROVIDE 24" X 24" ACCESS PANELS AT LOCATIONS OF MECHANICAL DAMPERS AND ALL OTHER OPERABLE PLUMBING, MECHANICAL OR ELECTRICAL ITEMS LOCATED ABOVE GYPSUM BOARD CEILINGS TO FACILITATE SERVICE ACCESS.
10. PROVIDE EQUAL CEILING TILES ON OPPOSITE SIDES OF ROOMS AT ACOUSTICAL CEILING SYSTEM LOCATIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
11. VERIFY ALL BOOM LOCATIONS WITH VENDOR DRAWINGS PRIOR TO INSTALLING SUPPORTS AND LAMINAR FLOW CEILING SYSTEMS.
12. GYPSUM WALLBOARD AND ACOUSTICAL INSULATION SHALL EXTEND TO 6" ABOVE CEILING IN ALL LOCATIONS UNLESS OTHERWISE NOTED. COORDINATE WITH WALLY TYPE TAGS ON ENLARGED FLOOR PLANS.
13. PROVIDE PAINTABLE ACCESS PANEL AT ALL VAV ACCESS LOCATIONS THAT FALL ABOVE A GYPSUM BOARD CEILING.

CEILING PLAN LEGEND

SUPPLY AIR DIFFUSER | RETURN AIR GRILLE | EXHAUST AIR GRILLE | 2X4 LIGHT
WALL MOUNT LINEAR | RECESSED LINEAR | SUSPENDED LINEAR | RECESSED LIGHT
RECESSED WALL WASHER | EXIT SIGN | PROJECTOR | PROJECTOR SCREEN

KEYPLAN

NOT TO SCALE



IFHS RENOVATION & EXPANSION

01 PARTIAL FIRST FLOOR CEILING PLAN - AREA 'A'
A5.1A
1/8" = 1'-0"
PLAN NORTH | TRUE NORTH

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SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

PARTIAL FIRST FLOOR CEILING PLAN - AREA 'A'
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

A5.1A



01 PARTIAL FIRST FLOOR CEILING PLAN - AREA 'B'

A5.1B — 1/8" = 1'-0" — PLAN NORTH — TRUE NORTH

GENERAL NOTES

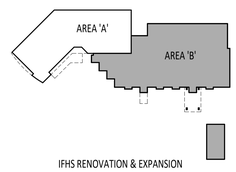
1. REFERENCE MECHANICAL, PLUMBING, AV, ELECTRICAL, AND INTERIOR DESIGNER DRAWINGS FOR DELINEATION OF ALL ASSEMBLIES WITHIN THEIR RESPECTIVE PORTIONS OF WORK.
2. CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS AND SHALL NOTIFY ARCHITECT IMMEDIATE OF ANY DISCREPANCIES BETWEEN EXISTING SITE CONDITIONS AND CONFIGURATIONS SHOWN IN THE CONSTRUCTION DRAWINGS.
3. ALL DIMENSIONS ARE FROM FINISH FACE OF WALL TO FINISHED FACE OF WALL UNLESS OTHERWISE NOTED.
4. ARCHITECTURAL CEILING PLANS SHALL GOVERN OVER ELECTRICAL, AV, MECHANICAL AND PLUMBING PLANS REGARDING EXACT LOCATIONS OF CEILING GRIDS, LIGHT FIXTURES, DIFFUSERS AND OTHER CEILING MOUNTED ITEMS. DISCREPANCIES IN QUANTITY AND/OR ORIENTATION BETWEEN ARCHITECTURAL, ELECTRICAL, MECHANICAL AND/OR PLUMBING DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE SUBMISSION OF PRICING. CONTRACTOR SHALL VERIFY FINAL LOCATIONS OF ALL CEILING AND WALL MOUNTED ITEMS WITH THE ARCHITECT AND ENGINEER PRIOR TO THE COMMENCEMENT OF WORK. ANY ITEMS INCORRECTLY PLACED WITHOUT THE VERIFICATION OF THE ARCHITECT AND ENGINEER SHALL BE RELOCATED PER DIRECTION OF THE ARCHITECT AT NO EXPENSE TO THE PROJECT.
5. ALL CEILING MOUNTED ITEMS (LIGHT FIXTURES, SPRINKLER HEADS, ETC...) SHALL BE CENTERED IN CEILING TILES, SOFFITS OR GYPSUM WALLBOARD CEILINGS AND/OR ALIGNED WITH ADJACENT CEILING MOUNTED ITEMS UNLESS OTHERWISE NOTED.
6. COORDINATE PLACEMENT OF GYPSUM WALLBOARD CONTROL JOINTS WITH ARCHITECT PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTROL JOINTS SHALL BE WHERE INDICATED AND/OR SPACING SHALL NOT EXCEED 20'-0".
7. CONTRACTOR SHALL VERIFY FINAL CONFIGURATION OF ALL EQUIPMENT, INCLUDING CONTRACTOR FURNISHED, STRUCTURAL, AND ELECTRICAL ITEMS ASSOCIATED WITH EQUIPMENT, WITH OWNER AND ARCHITECT PRIOR TO COMMENCEMENT CONSTRUCTION.
8. A CUT 2' - 0" X 4' - 0" CEILING TILE SHALL BE USED IN ANY ROOM WHERE 2' -0" X 2' -0" CEILING GRID CREATES AN EDGE CONDITION OF A CEILING TILE BEING LESS THAN 6".
9. CONTRACTOR SHALL PROVIDE 24" X 24" ACCESS PANELS AT LOCATIONS OF MECHANICAL DAMPERS AND ALL OTHER OPERABLE PLUMBING, MECHANICAL OR ELECTRICAL ITEMS LOCATED ABOVE GYPSUM BOARD CEILINGS TO FACILITATE SERVICE ACCESS.
10. PROVIDE EQUAL CEILING TILES ON OPPOSITE SIDES OF ROOMS AT ACOUSTICAL CEILING SYSTEM LOCATIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
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WALL MOUNT LINEAR · RECESSED LINEAR · SUSPENDED LINEAR · RECESSED LIGHT
RECESSED WALL WASHER · EXIT SIGN · PROJECTOR · PROJECTOR SCREEN

KEYPLAN

NOT TO SCALE



IFHS RENOVATION & EXPANSION

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Iliuliuk Family and Health Services

SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

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IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
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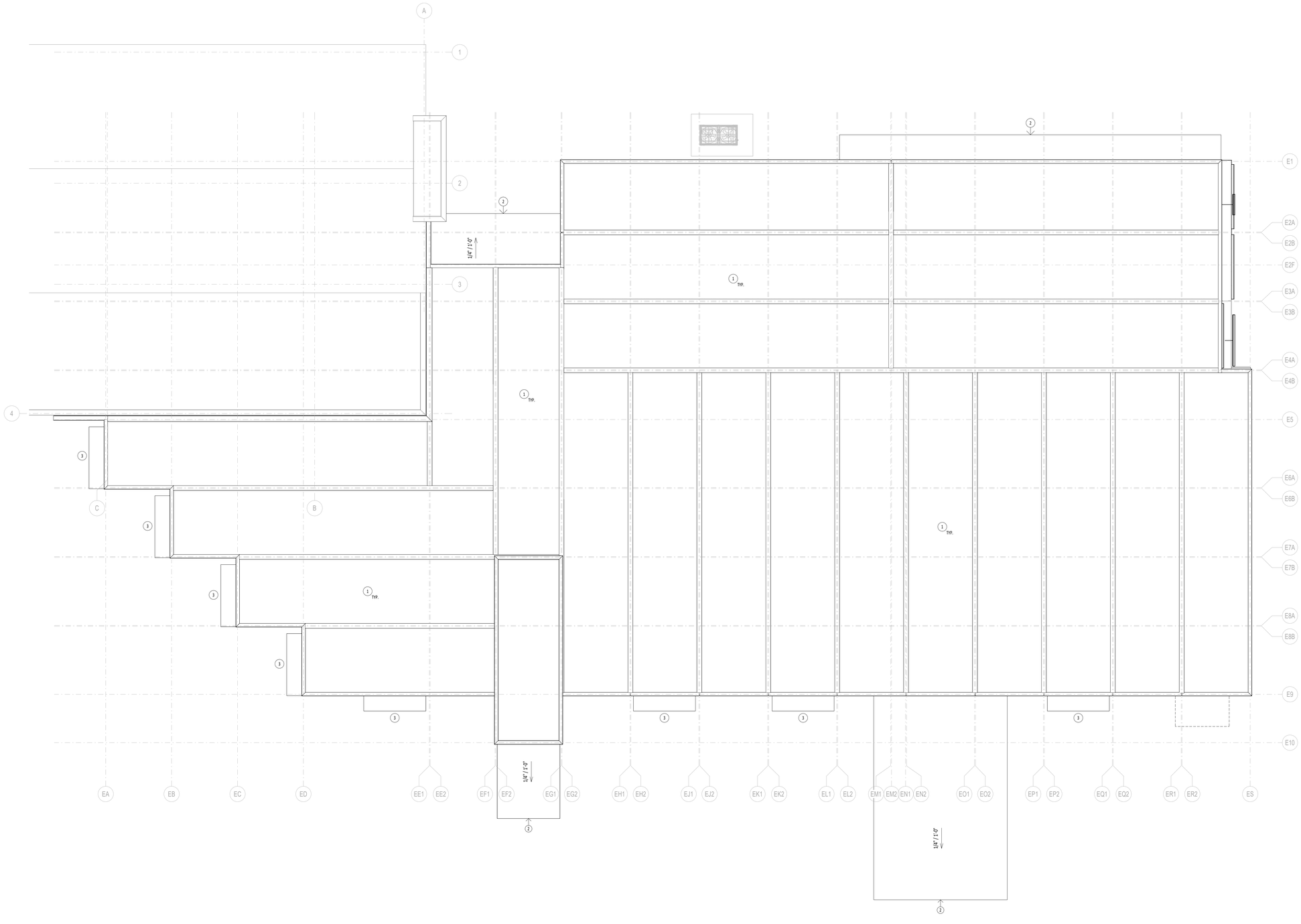
A5.1B

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3. COORDINATE LOCATIONS OF MECHANICAL, PLUMBING, AND/OR ELECTRICAL ROOF PENETRATIONS, CURBS, AND/OR EQUIPMENT WITH ARCHITECT AND MPE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
4. SEE MODULAR PLANS FOR TYPICAL ROOF SLOPE.
5. SEE MODULAR PLANS FOR MINIMUM THICKNESS OF ROOF INSULATION AT ROOF DRAINS.

ROOF PLAN KEYNOTES

1. NEW MODULE ROOFING.
2. NEW FIRST FLOOR CANOPY.
3. WAITING AREA BAY.



01 ROOF PLAN
A6.1 — 1/8" = 1'-0" — PLAN NORTH — TRUE NORTH

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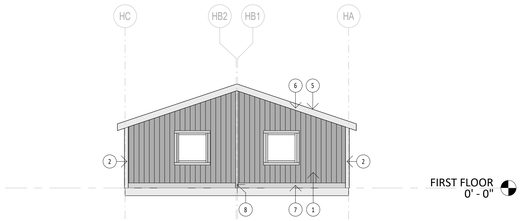
Iliuliuk Family and Health Services

SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

ROOF PLAN
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

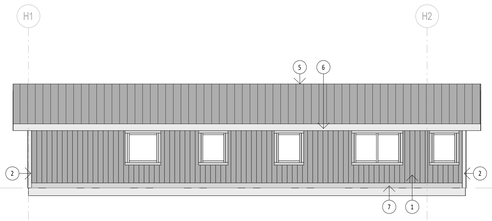
A6.1



FIRST FLOOR
0' - 0"

05 APARTMENTS - NW ELEVATION

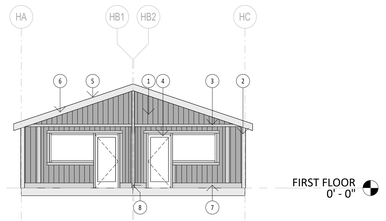
A6.2 1/8" = 1'-0"



FIRST FLOOR
0' - 0"

04 APARTMENTS - SW ELEVATION

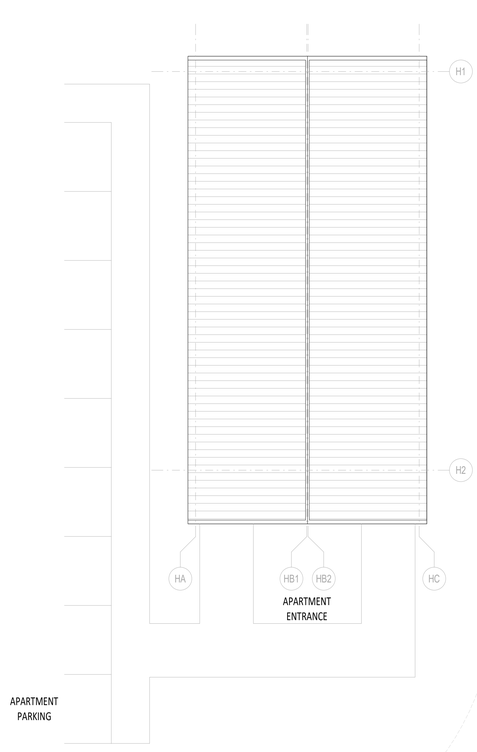
A6.2 1/8" = 1'-0"



FIRST FLOOR
0' - 0"

03 APARTMENTS - SE ELEVATION

A6.2 1/8" = 1'-0"



02 APARTMENTS DUPLEX ROOF PLAN

A6.2 1/8" = 1'-0"

PLAN NORTH TRUE NORTH



01 APARTMENTS DUPLEX FLOOR PLAN

A6.2 1/8" = 1'-0"

PLAN NORTH TRUE NORTH

ELEVATION GENERAL NOTES

1. REFERENCE CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR DELINEATION OF ALL ASSEMBLIES WITHIN THEIR RESPECTIVE PORTIONS OF WORK.
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3. COORDINATE LOCATIONS OF MECHANICAL, PLUMBING, AND/OR ELECTRICAL ROOF PENETRATIONS, CURBS, AND/OR EQUIPMENT WITH ARCHITECT AND MPE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
4. SEE MODULAR PLANS FOR TYPICAL ROOF SLOPE.
5. SEE MODULAR PLANS FOR MINIMUM THICKNESS OF ROOF INSULATION AT ROOF DRAINS.
6. ROOF AND WALL ASSEMBLIES SHALL MEET 2021 IECC REQUIREMENTS. SEE COVER PAGE FOR MINIMUM INSULATION REQUIREMENTS. CRAWL SPACE SHALL BE HEATED AND CONDITIONED, THEREFORE IS EXEMPT FROM FLOOR ASSEMBLY REQUIREMENTS.
7. REFERENCE MODULAR SHEETS FOR TYPICAL WALL SECTIONS.

ELEVATION KEYNOTES

1. BLUE 6" VERTICAL BOARD AND 2" BATTEN.
2. 6" VERTICAL CORNER TRIM.
3. 4" HORIZONTAL TRIM.
4. CLEAR ANODIZED ALUMINUM STOREFRONT SYSTEM.
5. SLOPED STANDING SEAM METAL ROOF.
6. 10" GABLE END TRIM.
7. 8" HORIZONTAL TRIM.
8. 4" VERTICAL BATTEN TO CONCEAL 2" EXPANSION JOINT.

FLOOR PLAN GENERAL NOTES

1. REFERENCE PROJECT MANUAL FOR ADDITIONAL PROJECT INFORMATION / REQUIREMENTS.
2. REFERENCE VENDOR, STRUCTURAL, EQUIPMENT, MECHANICAL, PLUMBING AND ELECTRICAL FOR DELINEATION OF ALL ASSEMBLIES WITHIN THEIR RESPECTIVE PORTIONS OF WORK.
3. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONFIGURATIONS SHOWN IN THE CONSTRUCTION DRAWINGS.
4. CONTRACTOR SHALL VERIFY THE FINAL CONFIGURATION OF ALL EQUIPMENT, INCLUDING CONTRACTOR FURNISHED ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL ITEMS ASSOCIATED WITH EQUIPMENT, WITH OWNER AND ARCHITECT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
5. ALL DIMENSIONS ARE FROM FINISHED FACE OF WALL-TO-FINISHED FACE OF WALL UNLESS OTHERWISE NOTED.
6. PROVIDE MOISTURE RESISTANT GYPSUM BOARD BEHIND AND WITHIN THREE FEET OF ANY PLUMBING FIXTURE TO A HEIGHT OF 8'-0" A.F.F.
7. ALL INTERIOR PARTITIONS SHALL BE TYPE 4bC UNLESS OTHERWISE NOTED. AT LOCATIONS WHERE THERE IS ONLY ONE SIDE OF THE INTERIOR PARTITION FACING AN UNOCCUPIABLE SPACE, THE INTERIOR PARTITION SHALL BE 4aC UNLESS OTHERWISE NOTED. ALL DEMISING WALLS BETWEEN PATIENT ROOM-TO-PATIENT ROOM OR PATIENT TOILET/SHOWER-TO-PATIENT TOILET/SHOWER SHALL MEET THE REQUIREMENTS OF WALL TYPE MODIFIER 'H'.
8. REFERENCE PARITION DETAILS SHEET FOR STC REQUIREMENTS.
9. CONTRACTOR SHALL PROVIDE THROUGH PENETRATION FIRESTOP SYSTEMS AS REQUIRED TO MAINTAIN RATING AT ALL PENETRATIONS THROUGH NEW FIRE RATED ASSEMBLIES.
10. ADD CONCRETE TOPPING AS REQUIRED TO LEVEL OUT FLOOR WHERE WALLS HAVE BEEN DEMOLISHED AND/OR WHERE FLOOR IS UNEVEN.
11. EXISTING CONSTRUCTION TO REMAIN SHALL BE PATCHED AND REPAIRED AS REQUIRED TO RECEIVE NEW FINISHES.
12. ALL WALLS AT ELECTRICAL ROOMS TO BE FULL HEIGHT WALLS. AT LOCATIONS WHERE THERE ARE EXISTING WALLS, PROVIDE TOP OFF AS REQUIRED TO MEET REQUIREMENTS OF FULL HEIGHT WALL, TYPE 'H' MODIFIER AS NOTED ON PARTITION DETAILS SHEET.
13. REFERENCE SPECIFICATION SECTION 10B00 FOR TOILET ACCESSORY ITEMS DEFINED BY THE TA.X TAG.
14. ALIGN NEW WALLS WITH EXISTING AS SHOWN ON PLANS TO PROVIDE A CONTINUOUS SMOOTH SURFACE.
15. PROVIDE CAULK AT ALL GAPS, MATERIAL TRANSITIONS AND DOOR FRAMES THROUGHOUT PROJECT, REFERENCE SPECIFICATIONS FOR ADDITIONAL LOCATIONS.
16. CONTRACTOR TO REINSTALL ANY FLOOR, CEILING OR WALL MOUNTED EQUIPMENT REMOVED TO ACCOMMODATE SCOPE OF NEW WORK.
17. REFERENCE INTERIOR DESIGN DRAWINGS AND SPECIFICATIONS FOR FLOOR, BASE, WALL, CEILING AND SPECIALTY FINISHES THROUGHOUT THE PROJECT AREA.
18. CONTRACTOR SHALL PROVIDE, COORDINATE AND INSTALL BLOCKING (061000) AS REQUIRED FOR SUPPORT OF ALL WALL MOUNTED AND CEILING MOUNTED O.F.O.I., O.F.C.I., O.F.V.I., V.F.V.I., AND C.F.C.I. EQUIPMENT.

    ITEMS INCLUDE BUT NOT LIMITED TO:
    TOILET ACCESSORIES, DOOR ACCESSORIES, MIRRORS, MARKERBOARDS, CHALKBOARDS, TACKBOARDS, COAT/ROBE HOOKS, WALL MOUNTED EQUIPMENT, DIAGNOSTIC SETS, GLOVES/SHARPS CONTAINERS, MONITORS, TELEVISIONS, CAMERAS, PROJECTORS AND OTHER AUDIO-VISUAL (AV) EQUIPMENT, AND SIGNAGE, IF NEEDED.

    REFER TO PROJECT MANUAL FOR ADDITIONAL BLOCKING REQUIREMENTS. THIS IS A SUMMARY LISTING OF ITEMS AND IS NOT INTENDED AS A COMPREHENSIVE LIST. REQUIREMENTS OF THE PROJECT MANUAL SHALL STILL BE MET.
19. CLEAN ALL EXISTING WINDOWS AND WINDOW FRAMES WITHIN PROJECT AREA. PROVIDE NEW SEALANT TO PROVIDE AIR TIGHT CONSTRUCTION.

FLOOR PLAN LEGEND

PLAN NOTE · EQUIPMENT NUMBER · ROOM NAME/ NUMBER · FRAME ELEVATION/ GLASS TYPE

NEW DOOR/ NUMBER · INTERIOR ELEVATION · DETAIL/ SECTION · PARTITION TYPE

NEW WALL · EXISTING WALL

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Iliuliuk Family and Health Services

SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

APARTMENTS DUPLEX
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
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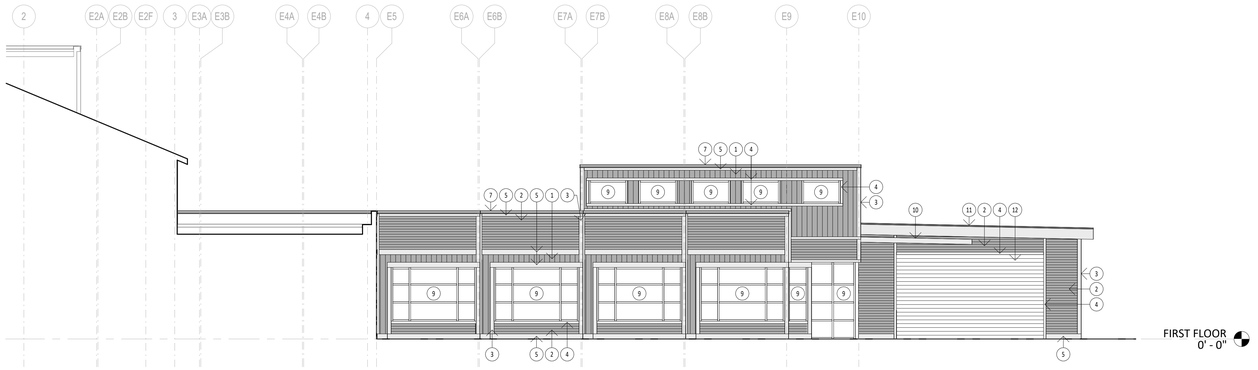
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GENERAL NOTES

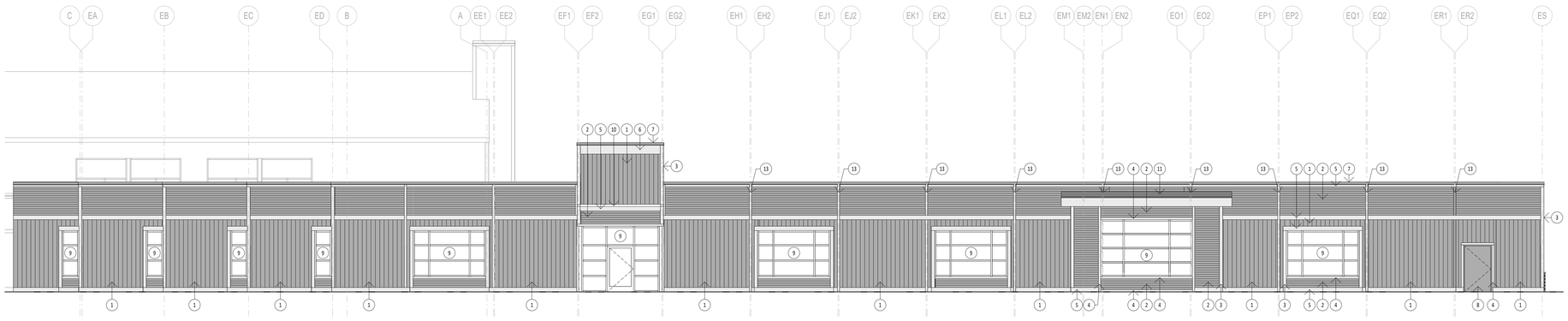
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4. SEE MODULAR PLANS FOR TYPICAL ROOF SLOPE.
5. SEE MODULAR PLANS FOR MINIMUM THICKNESS OF ROOF INSULATION AT ROOF DRAINS.
6. ROOF AND WALL ASSEMBLIES SHALL MEET 2021 IECC REQUIREMENTS. SEE COVER PAGE FOR MINIMUM INSULATION REQUIREMENTS. CRAWL SPACE SHALL BE HEATED AND CONDITIONED, THEREFORE IS EXEMPT FROM FLOOR ASSEMBLY REQUIREMENTS.
7. REFERENCE MODULAR SHEETS FOR TYPICAL WALL SECTIONS.

ELEVATION KEYNOTES

1. 6" VERTICAL BOARD AND 2" BATTEN. COLOR TO MATCH EXISTING BUILDING.
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3. 6" VETICAL CORNER TRIM. COLOR TO MATCH EXISTING BUILDING.
4. 4" HORIZONTAL TRIM. COLOR TO MATCH EXISTING BUILDING.
5. 8" HORIZONTAL TRIM. COLOR TO MATCH EXISTING BUILDING.
6. 20" HORIZONTAL TRIM. COLOR TO MATCH EXISTING BUILDING.
7. ALUMINUM COPING. COLOR TO MATCH EXISTING BUILDING.
8. HOLLOW METAL DOOR.
9. CLEAR ANODIZED ALUMINUM STOREFRONT SYSTEM.
10. ALUMINUM CANOPY.
11. SLOPED STANDING SEAM METAL ROOF.
12. OVERHEAD COILING DOOR.
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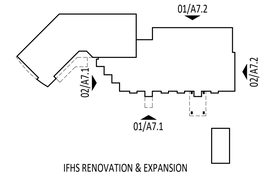


02 SOUTHWEST EXTERIOR ELEVATION
A7.1 — 1/8" = 1'-0"



01 SOUTHEAST EXTERIOR ELEVATION
A7.1 — 1/8" = 1'-0"

KEYPLAN
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IFHS RENOVATION & EXPANSION

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EXTERIOR ELEVATIONS
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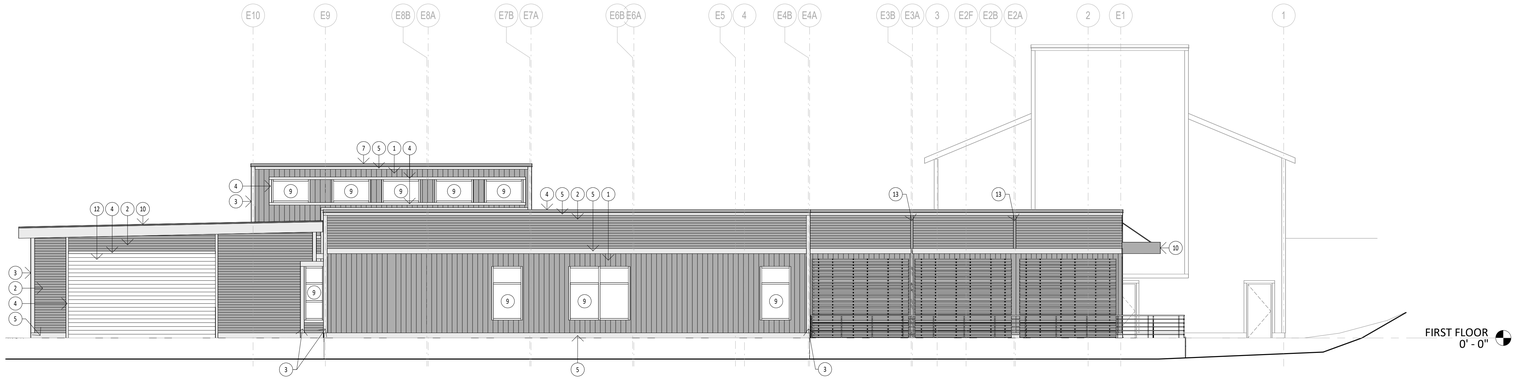
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GENERAL NOTES

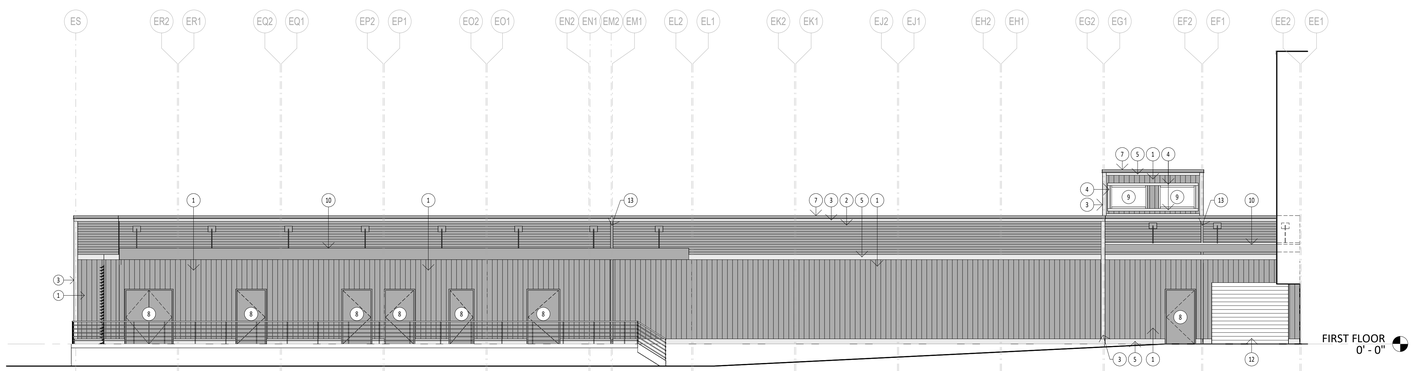
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3. 6" VETICAL CORNER TRIM. COLOR TO MATCH EXISTING BUILDING.
4. 4" HORIZONTAL TRIM. COLOR TO MATCH EXISTING BUILDING.
5. 8" HORIZONTAL TRIM. COLOR TO MATCH EXISTING BUILDING.
6. 20" HORIZONTAL TRIM. COLOR TO MATCH EXISTING BUILDING.
7. ALUMINUM COPING. COLOR TO MATCH EXISTING BUILDING.
8. HOLLOW METAL DOOR.
9. CLEAR ANODIZED ALUMINUM STOREFRONT SYSTEM.
10. ALUMINUM CANOPY.
11. SLOPED STANDING SEAM METAL ROOF.
12. OVERHEAD COILING DOOR.
13. 4" VERTICAL BATTEN TO CONCEAL 2" EXPANSION JOINT.

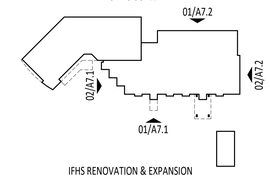


02 NORTHEAST EXTERIOR ELEVATION
A7.2 1/8" = 1'-0"



01 NORTHWEST EXTERIOR ELEVATION
A7.2 1/8" = 1'-0"

KEYPLAN
NOT TO SCALE



IFHS RENOVATION & EXPANSION

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SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

EXTERIOR ELEVATIONS
IFHS EXPANSION & RENOVATION
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UNALASKA, AK

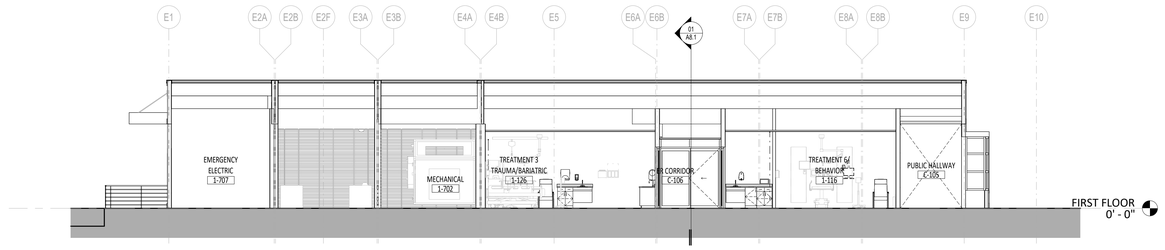
17 FEBRUARY 2025
IFH2402

A7.2

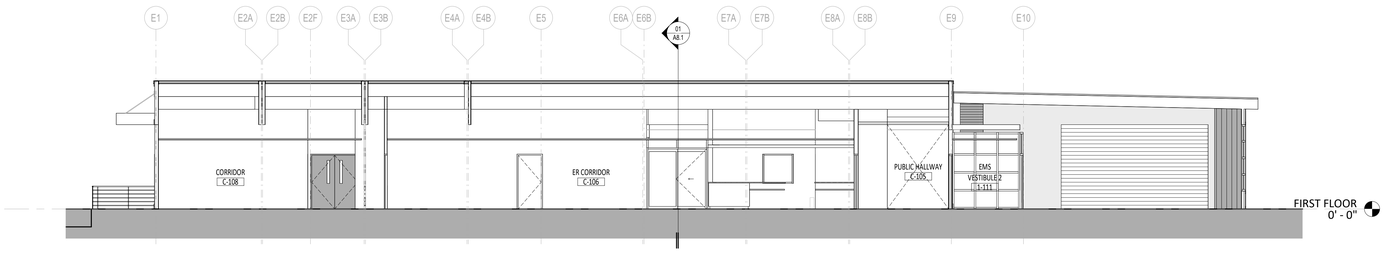
GENERAL NOTES

1. REFERENCE CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR DELINEATION OF ALL ASSEMBLIES WITHIN THEIR RESPECTIVE PORTIONS OF WORK.
2. CONTRACTOR SHALL VERIFY FINAL CONFIGURATION OF ALL EQUIPMENT, INCLUDING CONTRACTOR FURNISHED CIVIL, STRUCTURAL, ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL ITEMS ASSOCIATED WITH EQUIPMENT, WITH OWNER AND ARCHITECT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. COORDINATE LOCATIONS OF MECHANICAL, PLUMBING, AND/OR ELECTRICAL ROOF PENETRATIONS, CURBS, AND/OR EQUIPMENT WITH ARCHITECT AND MPE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
4. SEE MODULAR PLANS FOR TYPICAL ROOF SLOPE.
5. SEE MODULAR PLANS FOR MINIMUM THICKNESS OF ROOF INSULATION AT ROOF DRAINS.
6. ROOF AND WALL ASSEMBLIES SHALL MEET 2021 IECC REQUIREMENTS. SEE COVER PAGE FOR MINIMUM INSULATION REQUIREMENTS. CRAWL SPACE SHALL BE HEATED AND CONDITIONED, THEREFORE IS EXEMPT FROM FLOOR ASSEMBLY REQUIREMENTS.
7. REFERENCE MODULAR SHEETS FOR TYPICAL WALL SECTIONS.

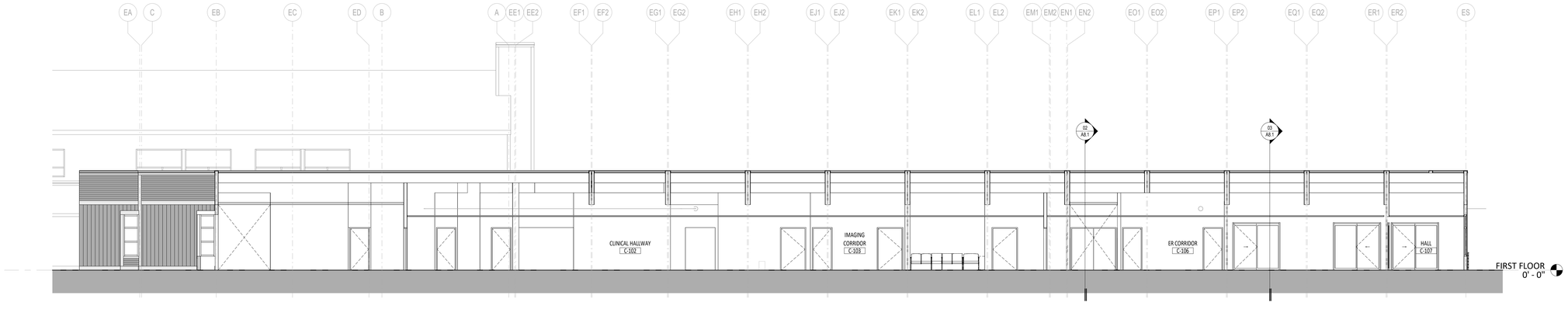
SECTION KEYNOTES



03 A8.1 BUILDING SECTION
1/8" = 1'-0"



02 A8.1 BUILDING SECTION
1/8" = 1'-0"



01 A8.1 BUILDING SECTION
1/8" = 1'-0"

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SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

BUILDING SECTIONS
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

A8.1

DRAWING INDEX - MODULAR

ARCHITECTURAL

MA0.01 DRAWING INDEX

MA0.06 MODULE LAYOUT & KEY PLANS
MA0.07 MODULE LIST

MA2.00 OVERALL FLOOR PLANS
MA2.01 ENLARGED FLOOR PLANS
MA2.02 CRAWLSPACE PLAN
MA2.03 MODULE PLANS - A1 THRU A6, A23
MA2.04 MODULE PLANS - A7 THRU A12
MA2.05 MODULE PLANS - A13 THRU A22
MA2.06 DUPLEX FLOOR & ROOF PLANS

MA4.01 ROOF PLAN

MA6.01 HORIZONTAL ASSEMBLIES
MA6.02 VERTICAL ASSEMBLIES

MA9.01 BUILDING SECTIONS
MA9.02 BUILDING SECTIONS
MA9.03 DUPLEX BUILDING SECTIONS

MA10.01 WALL SECTIONS
MA10.02 DUPLEX WALL SECTIONS

STRUCTURAL

MS1.01 PILE PLAN

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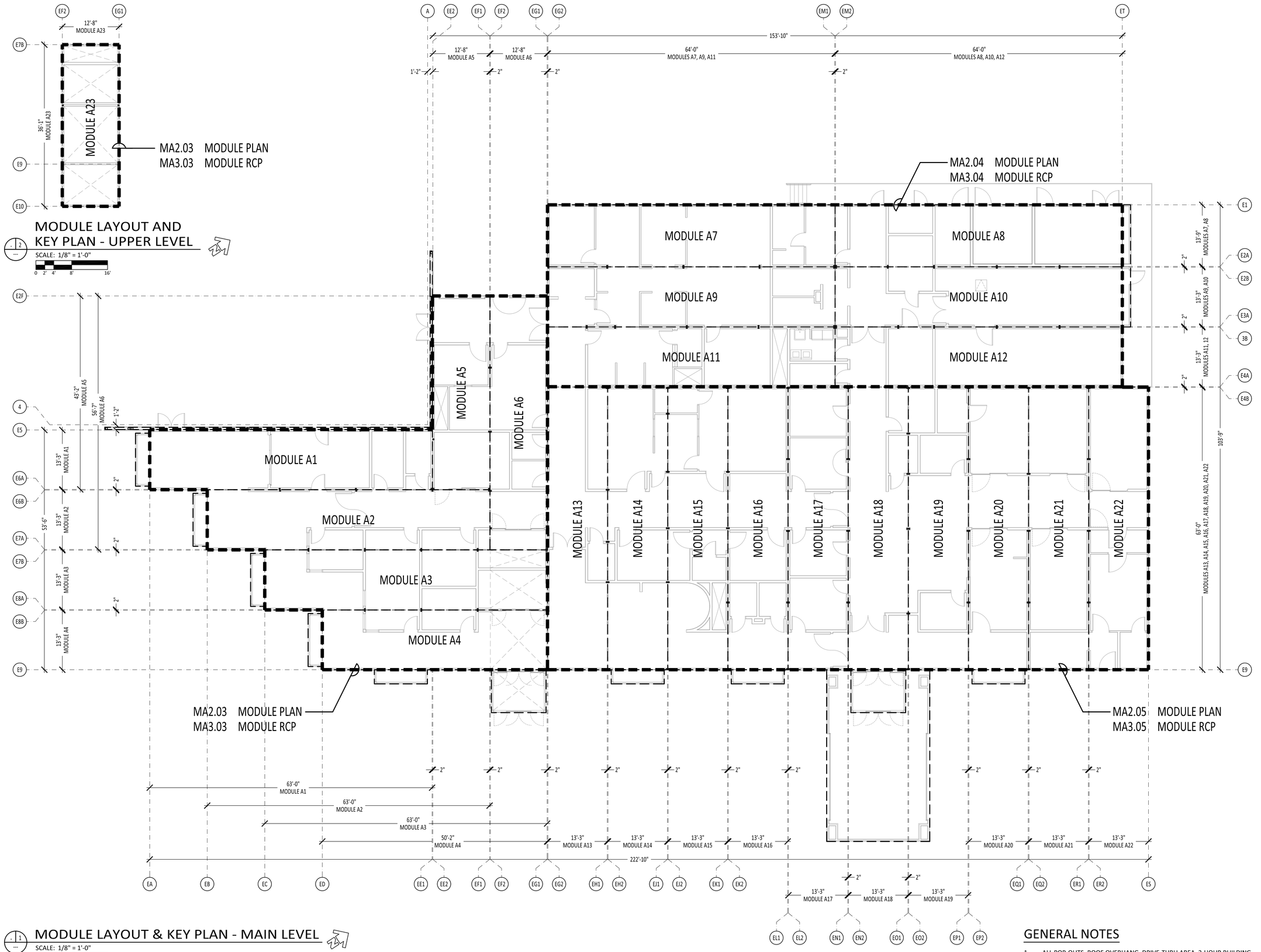
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DRAWING INDEX - MODULAR

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FEBRUARY 17 2025
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MA0.01



GENERAL NOTES

1. ALL POP-OUTS, ROOF OVERHANG, DRIVE-THRU AREA, 2-HOUR BUILDING SEPARATION WALLS, ETC. ON THE NEW ADDITION WILL BE PRE-FABRICATED IN THE MODULAR SHOP AND FIELD INSTALL.

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SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

MODULE LAYOUT AND KEY PLANS
IFHS EXPANSION & RENOVATION
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UNALASKA, AK

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IFH2402

MA0.06

MODULE LIST

NUMBER	WIDTH	LENGTH	HEIGHT (*)	USE / ROOMS
A1	13'-3"	63'-0"	15'-3 3/4"	LOBBY, PHARMACY CHANGE TOILET, STAFF TOILET
A2	13'-3"	63'-0"	15'-3 3/4"	LOBBY, CLINICAL HALLWAY, HUMAN RESOURCE OFFICE, CEO OFFICE, GRANT MANAGER'S OFFICE, READING ROOM
A3	13'-3"	63'-0"	15'-3 3/4"	LOBBY, HUMAN RESOURCE OFFICE, CEO OFFICE, GRANT MANAGER'S OFFICE, OFFICE, READING ROOM, FAMILY CONSULT / CONFERENCE ROOM
A4	13'-3"	50'-2"	15'-2 1/8"	PUBLIC CORRIDOR, CEO OFFICE, OFFICE
A5	12'-8"	43'-2"	14'-6"	LOADING AREA, DECONTAMINATION ROOM, CLEAN WORK ROOM, STAFF LOUNGE
A6	12'-8"	56'-7"	14'-7 5/8"	LOADING AREA, STERILE STORAGE, CLEAN WORK ROOM, STAFF BREAK, CHANGE ROOM, CHANGE ROOM, CLINICAL HALLWAY, FAMILY CONSULT / CONFERENCE ROOM
A7	13'-9"	64'-0"	15'-3 7/8"	STAFF BREAK, LAB SUPPLY, CEPHEID, MAIN LAB, SHOWER ROOM, ER PHYSICIAN SLEEPING ROOM
A8	13'-9"	64'-0"	15'-3 7/8"	ER PHYSICIAN SLEEPING ROOM, CORRIDOR, MEDICAL GAS, VAC, NORMAL ELECTRICAL, EMERGENCY ELECTRICAL, GENERATOR
A9	13'-3"	64'-0"	15'-3 7/8"	SUB WAIT, MAIN LAB, BLOOD STORE, MEN LOCKER, WOMEN LOCKER
A10	13'-3"	64'-0"	15'-3 7/8"	CORRIDOR, VAC, BOILER ROOM
A11	13'-3"	64'-0"	15'-3 7/8"	CORRIDOR, BLOOD DRAW, LAB TOILET, LAB DIRECTOR, LAUNDRY, JANITOR
A12	13'-3"	64'-0"	15'-3 7/8"	LAUNDRY, JANITOR, CORRIDOR, IDF / SERVER, AHU
A13	13'-3"	63'-0"	15'-3 3/4"	CORRIDOR, XRAY, PATIENT TOILET, RECEPTION
A14	13'-3"	63'-0"	15'-3 3/4"	XRAY, EQUIPMENT ROOM, CONTROL ROOM, IMAGING CORRIDOR, PATIENT TOILET, MAMOGRAPHY, RECEPTION, PUBLIC CORRIDOR
A15	13'-3"	63'-0"	15'-3 3/4"	EQUIPMENT ROOM, CONTROL ROOM, CT SCAN, IMAGING CORRIDOR, MAMOGRAPHY, HALLWAY, PATIENT TOILET, WAITING, PUBLIC CORRIDOR
A16	13'-3"	63'-0"	15'-3 3/4"	CT SCAN, IMAGING CORRIDOR, ULTRASOUND, WOMEN, MEN, PUBLIC CORRIDOR
A17	13'-3"	63'-0"	15'-3 3/4"	EQUIPMENT STORAGE, CLEAN SUPPLY, IMAGING CORRIDOR, SOIL HOLDING, TRIAGE, PUBLIC CORRIDOR
A18	13'-3"	63'-0"	15'-3 3/4"	CORRIDOR, OFFICE, PATIENT TOILET, NURSE'S STATION, ER CORRIDOR
A19	13'-3"	63'-0"	15'-3 3/4"	OFFICE, PATIENT TOILET, PATIENT TOILET, MEDICATION ROOM, ER CORRIDOR, NURSE'S STATION, NOURISHMENT, ER CORRIDOR
A20	13'-3"	63'-0"	15'-3 3/4"	TREATMENT 3 TRAUMA / BARIATRIC, ER CORRIDOR, TREATMENT 6 BEHAVIOR, ER CORRIDOR
A21	13'-3"	63'-0"	15'-3 3/4"	TREATMENT 2 TRAUMA, ER CORRIDOR TREATMENT 5, DECONTAMINATION SHOWER
A22	13'-3"	63'-0"	15'-3 3/4"	TREATMENT 1, CORRIDOR, ANTE ROOM, TREATMENT 4 ISO, VESTIBULE, PATIENT TOILET
A23	12'-8"	36'-1"	8'-8 1/8"	CLERESTORY
D1	15'-7 7/8"	59'-0"	14'-11 7/8"	APARTMENT 1
D2	15'-7 7/8"	59'-0"	14'-11 7/8"	APARTMENT 2

NOTES: (*) HEIGHT INDICATED IS THE MAXIMUM MODULE HEIGHT BASED ON THE BUILDING SECTIONS. ACTUAL HEIGHT MAY VARIES.

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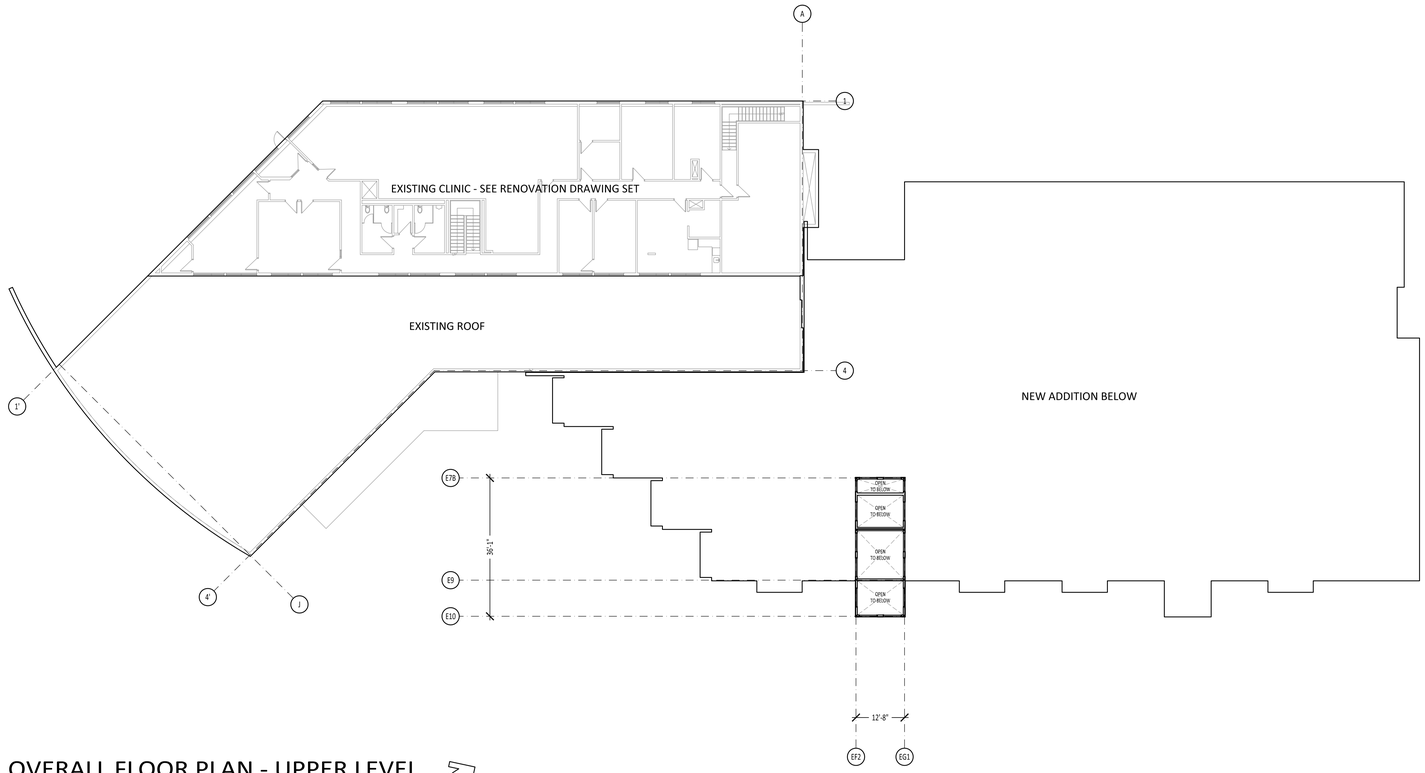
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MODULE LIST

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UNALASKA, AK

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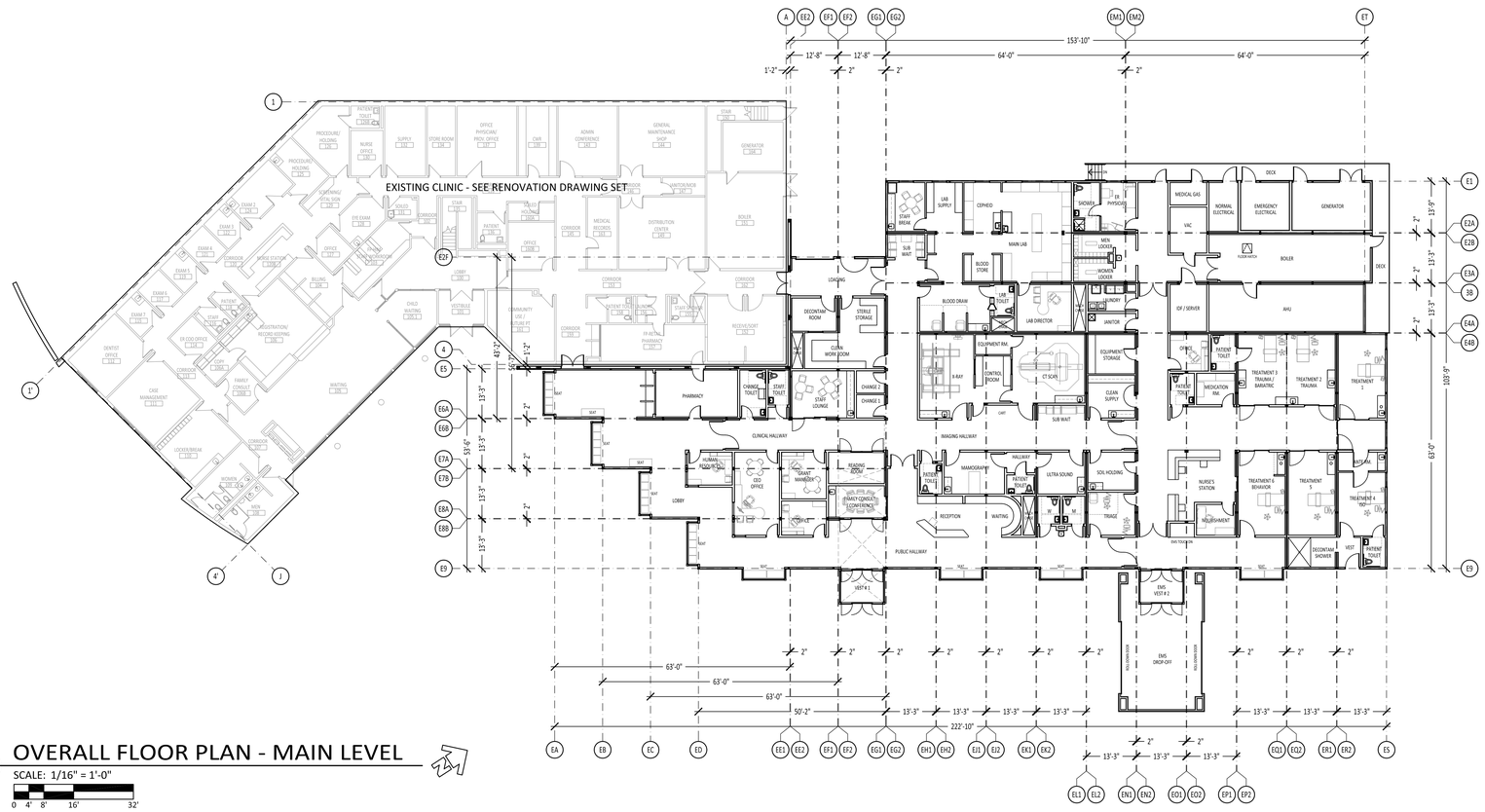
MA0.07



1 2 — OVERALL FLOOR PLAN - UPPER LEVEL

SCALE: 1/16" = 1'-0"

0 4' 8' 16' 32'



1 1 — OVERALL FLOOR PLAN - MAIN LEVEL

SCALE: 1/16" = 1'-0"

0 4' 8' 16' 32'

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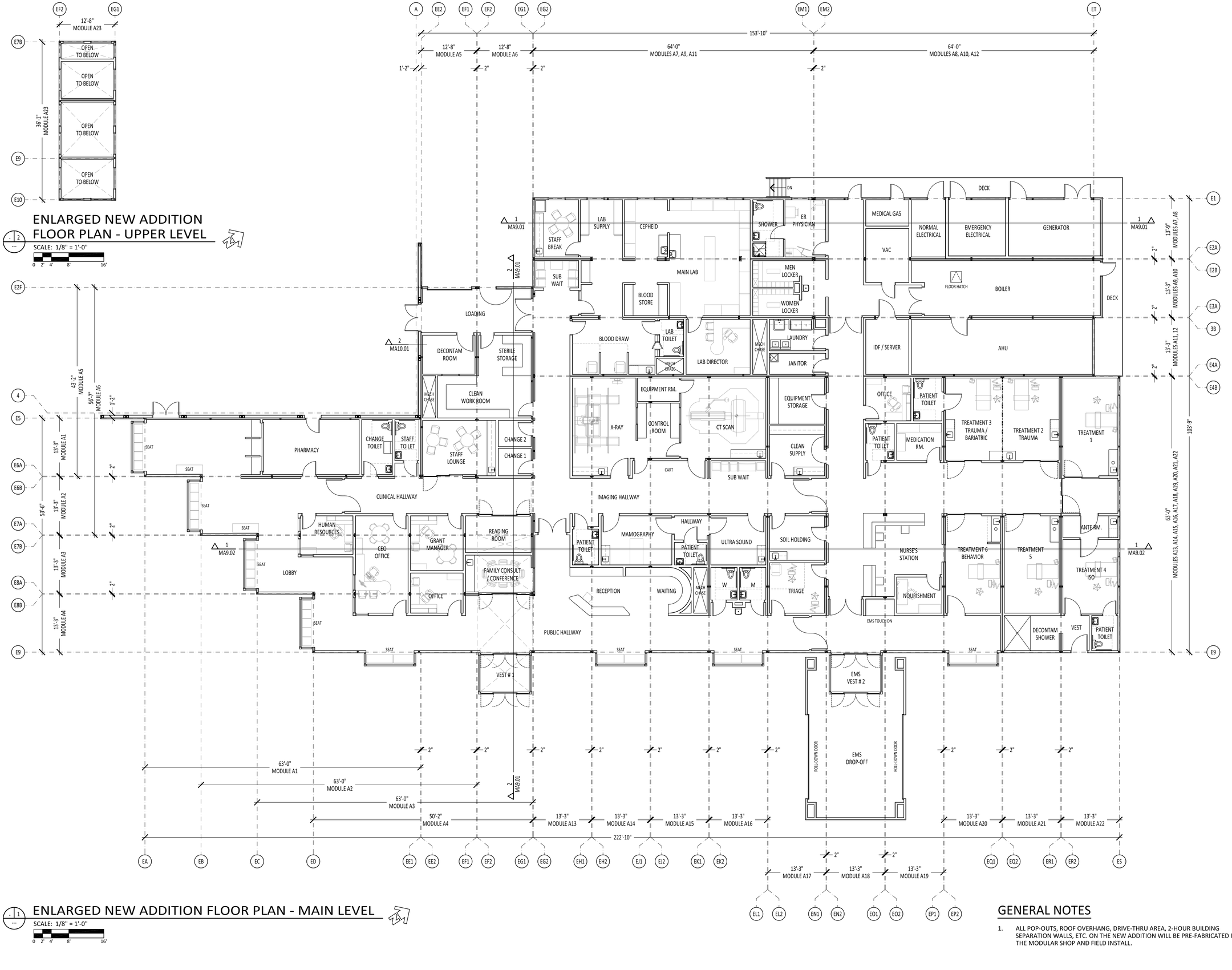
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OVERALL FLOOR PLANS
IFHS EXPANSION & RENOVATION
ILULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

FEBRUARY 17 2025
IFH2402

MA2.00



ENLARGED NEW ADDITION FLOOR PLAN - UPPER LEVEL

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

0 2' 4' 8' 16'

ENLARGED NEW ADDITION FLOOR PLAN - MAIN LEVEL

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

0 2' 4' 8' 16'

GENERAL NOTES

1. ALL POP-OUTS, ROOF OVERHANG, DRIVE-THRU AREA, 2-HOUR BUILDING SEPARATION WALLS, ETC. ON THE NEW ADDITION WILL BE PRE-FABRICATED IN THE MODULAR SHOP AND FIELD INSTALL.

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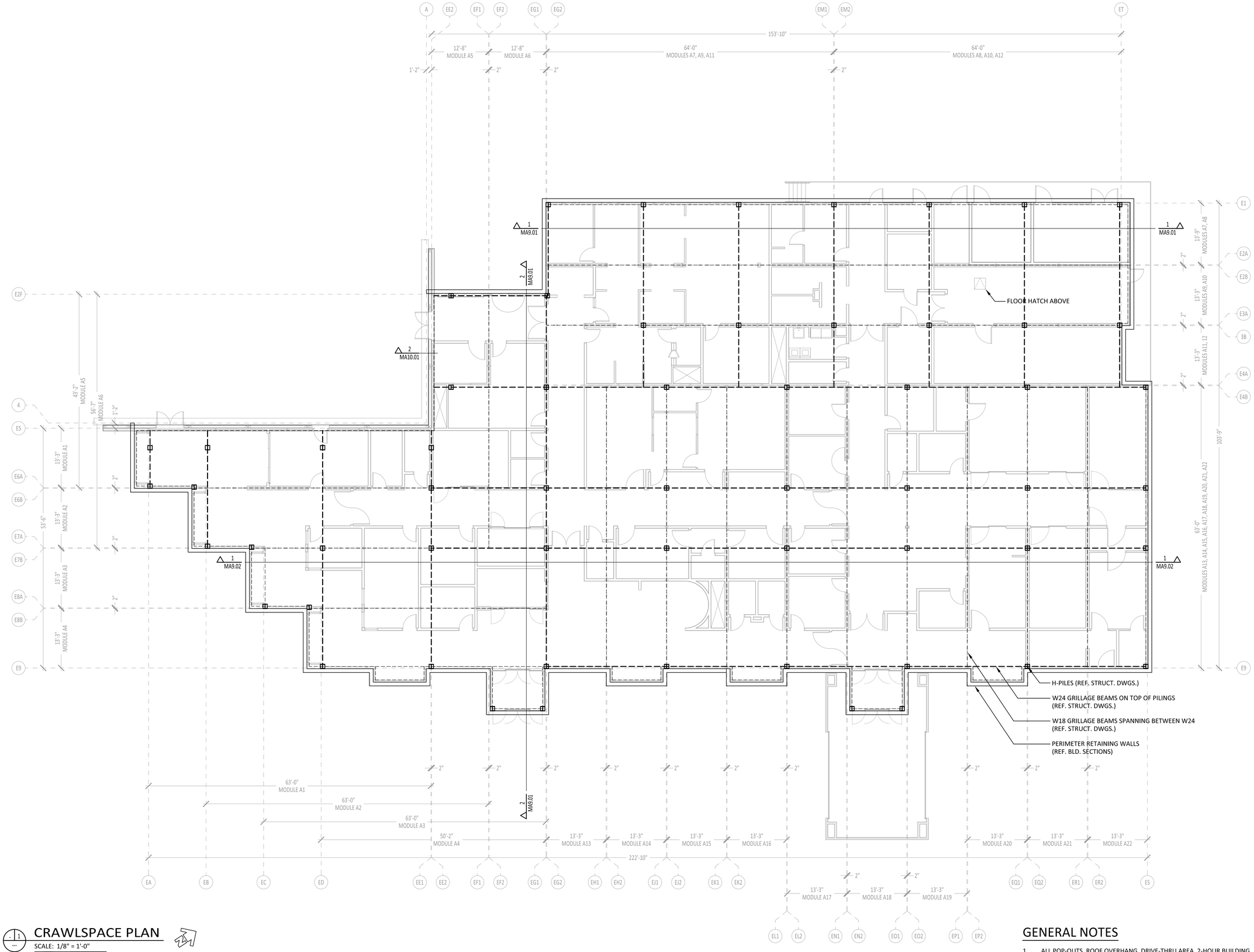
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ENLARGED FLOOR PLANS - NEW ADDITION

IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

FEBRUARY 17 2025
IFH2402

MA2.01



CRAWLSPACE PLAN

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

0 2' 4' 8' 16'

GENERAL NOTES

1. ALL POP-OUTS, ROOF OVERHANG, DRIVE-THRU AREA, 2-HOUR BUILDING SEPARATION WALLS, ETC. ON THE NEW ADDITION WILL BE PRE-FABRICATED IN THE MODULAR SHOP AND FIELD INSTALL.

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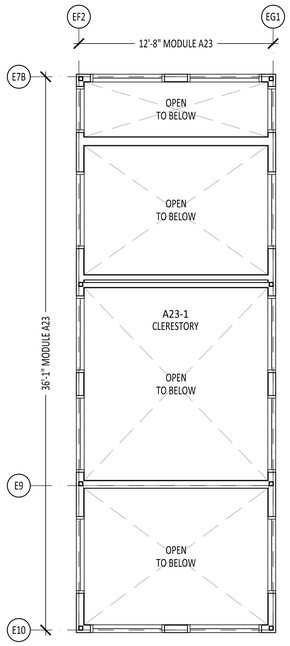
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CRAWLSPACE PLAN

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IFH2402

MA2.02

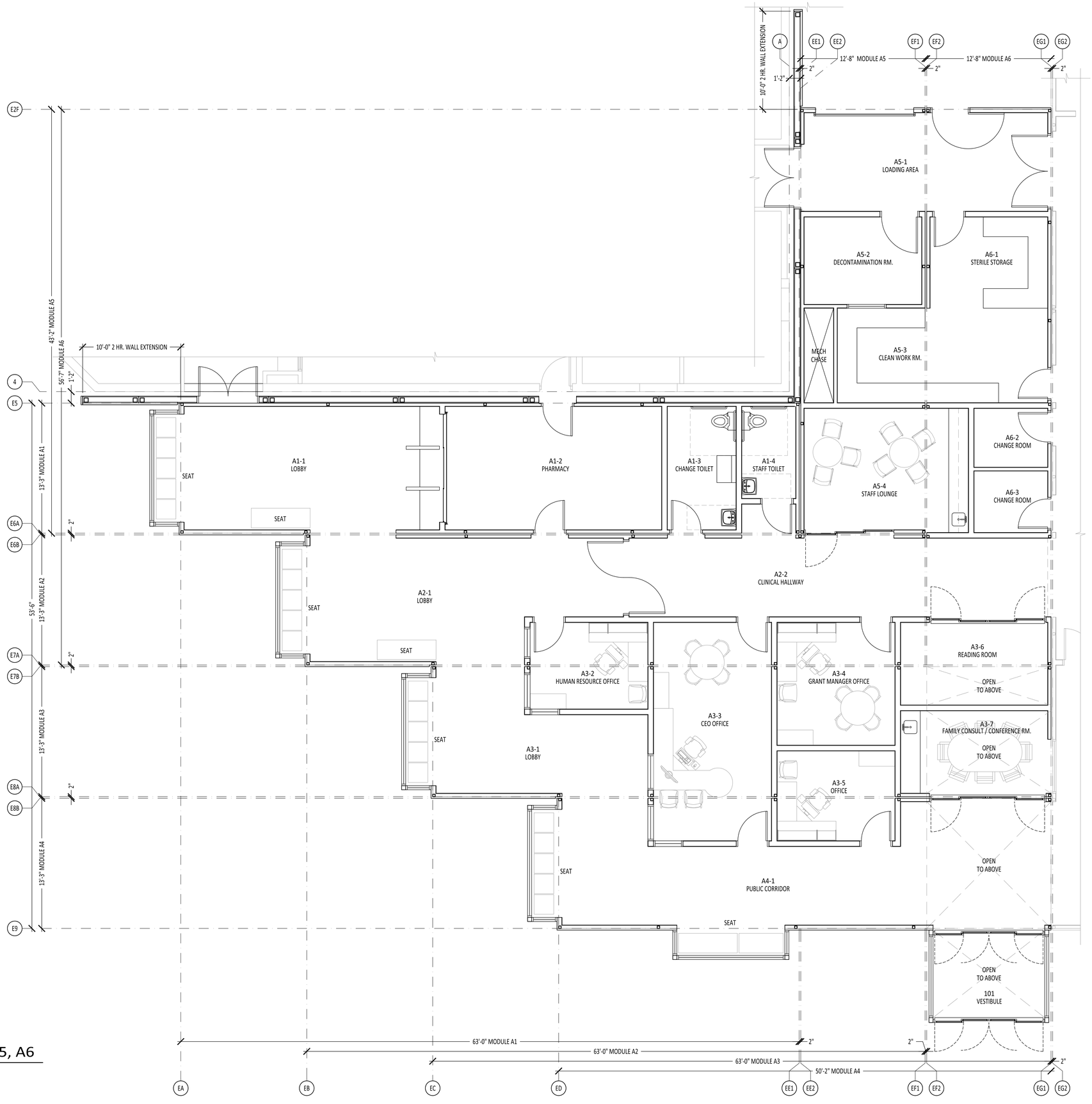


MODULE PLAN
A23 - UPPER LEVEL

2 / ---

SCALE: 1/4" = 1'-0"

0 1' 2' 4' 8'



MODULE PLANS - A1, A2, A3, A4, A5, A6

1 / ---

SCALE: 1/4" = 1'-0"

0 1' 2' 4' 8'

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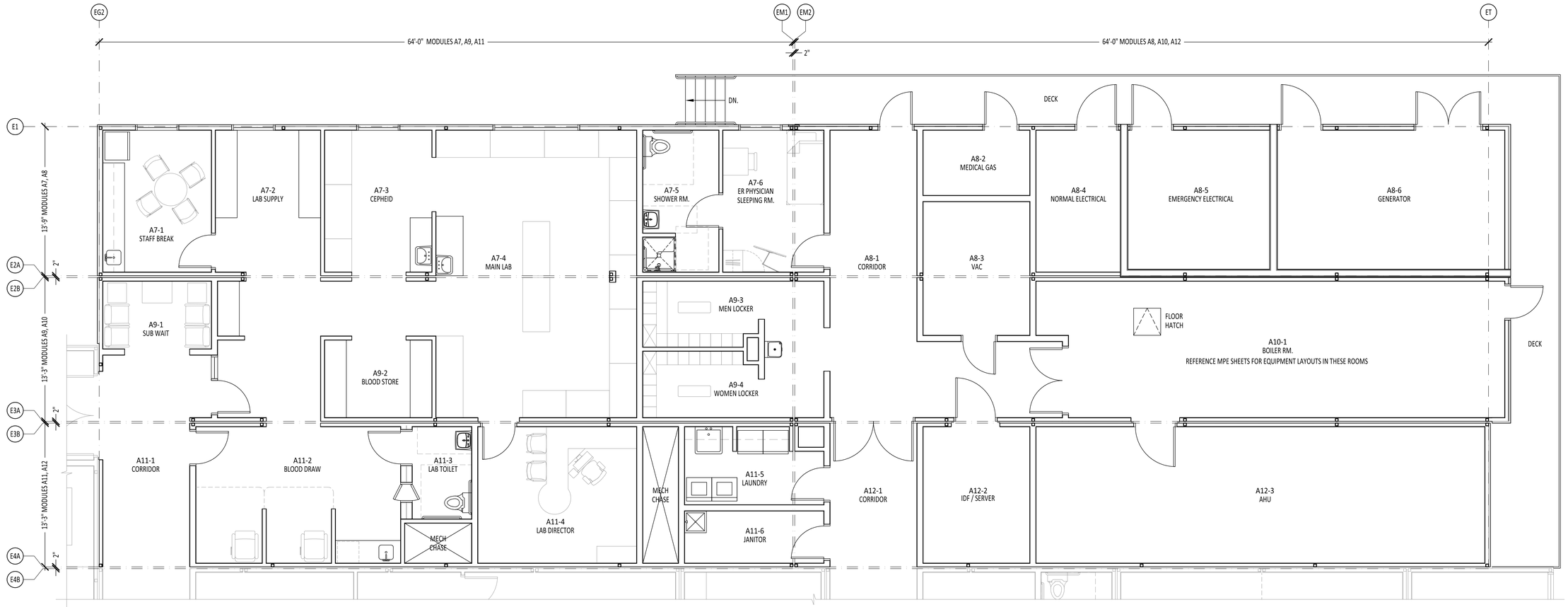
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MODULE PLANS - A1 THRU A6, A23

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FEBRUARY 17 2025
IFH2402

MA2.03



1 MODULE PLANS - A7, A8, A9, A10, A11, A12

SCALE: 1/4" = 1'-0"

0 1' 2' 4' 8'

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SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

MODULE PLANS - A7 THRU A12

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MA2.04



1 MODULE PLANS A13, A14, A15, A16, A17, A18, A19, A20, A21, A22

SCALE: 1/4" = 1'-0"

0 1' 2' 4' 8'

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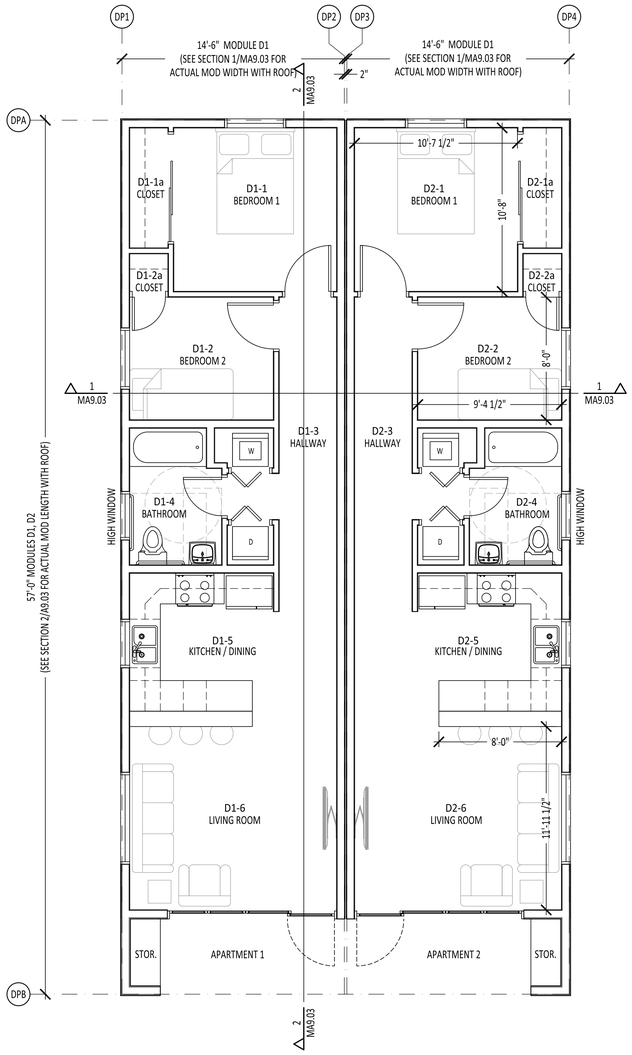
SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

MODULE PLANS - A13 THRU A22

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IFH2402

MA2.05

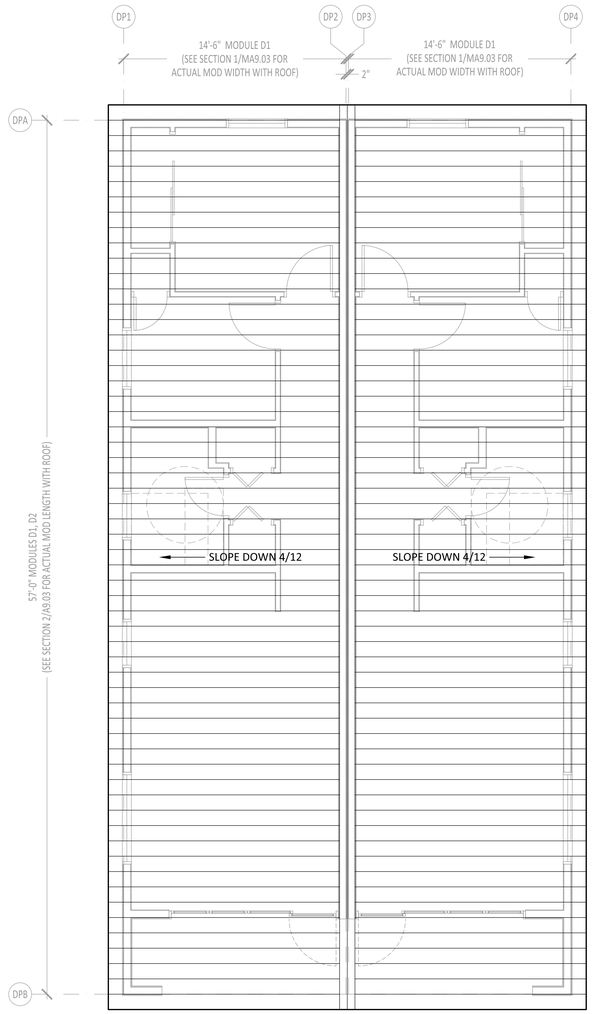


1 / ---

FLOOR PLAN - MODULES D1, D2

SCALE: 1/4" = 1'-0"

0 1' 2' 4' 8'



2 / ---

ROOF PLAN

SCALE: 1/4" = 1'-0"

0 1' 2' 4' 8'

STENGEL - HILL

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Iliuliuk Family and Health Services

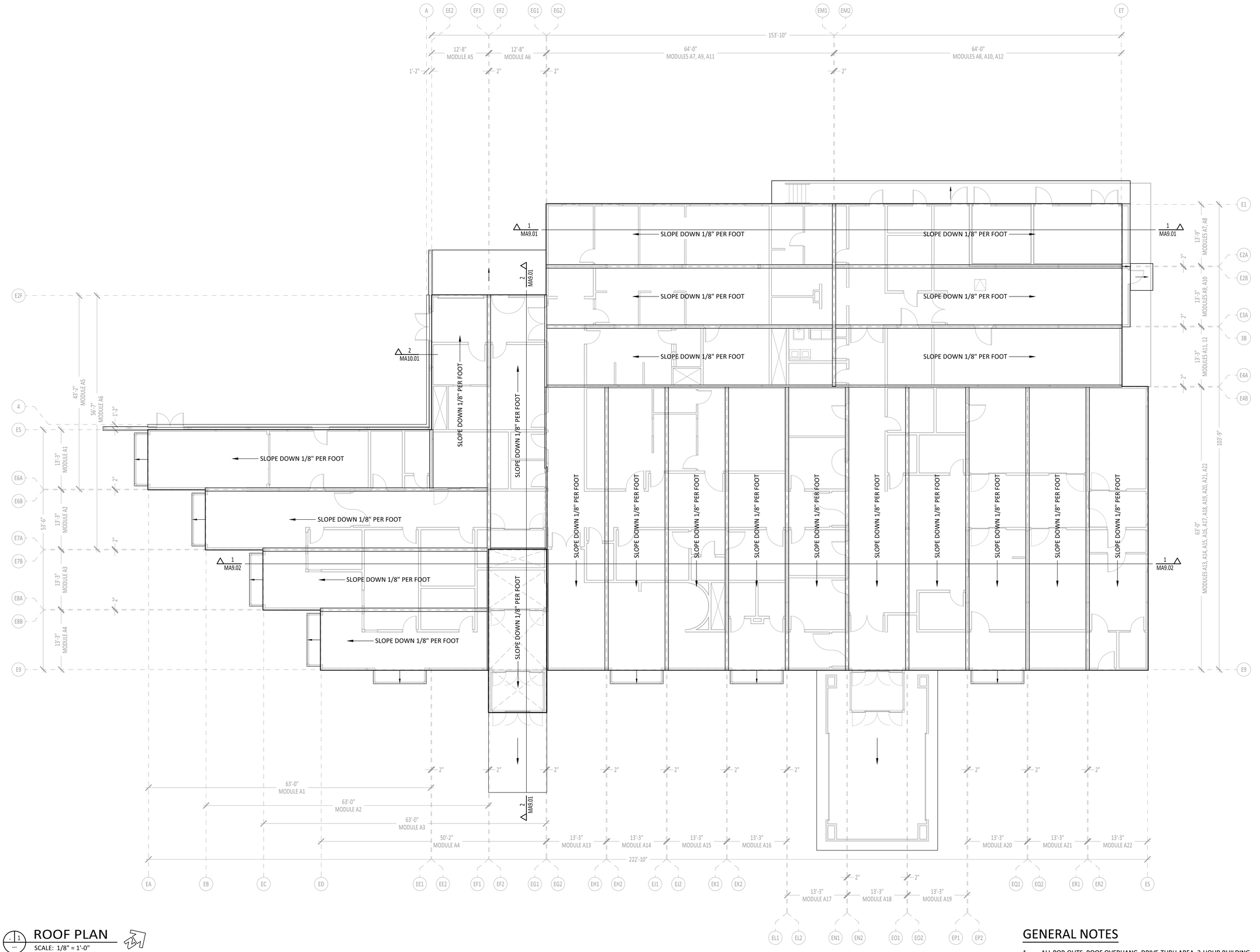
SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

DUPLEX FLOOR & ROOF PLANS

IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

FEBRUARY 17 2025
IFH2402

MA2.06



ROOF PLAN

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

0 2' 4' 8' 16'

GENERAL NOTES

1. ALL POP-OUTS, ROOF OVERHANG, DRIVE-THRU AREA, 2-HOUR BUILDING SEPARATION WALLS, ETC. ON THE NEW ADDITION WILL BE PRE-FABRICATED IN THE MODULAR SHOP AND FIELD INSTALL.

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ROOF PLAN

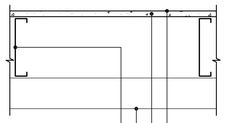
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

FEBRUARY 17 2025
IFH2402

MA4.01

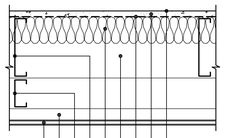
HORIZONTAL ASSEMBLY SHEET NOTES

1. REFERENCE SHEET MA0-01 FOR GENERAL NOTES REGARDING ACOUSTICAL SEALANT, FIRE BLOCKING, AND FIRE STOPPING.
2. CONTINUOUS VAPOR BARRIER MUST BE MAINTAINED AT ALL TIMES. ANY PENETRATION THROUGH THE VAPOR BARRIER MUST BE COMPLETELY SEALED AND MAINTAINED TO PREVENT ANY MOISTURE FROM ENTERING THE ROOF / CEILING ASSEMBLIES.
3. CONTRACTOR TO PROVIDE ALL FASTENERS TYPE, DIMENSIONS, SPACING, ETC. TO MEET THE CALLED OUT FIRE RATED UL NUMBERS, GA FILE NUMBERS, AND ALL APPLICABLE CODE SECTIONS.
4. PROVIDE 4" RUBBER COVE BASE AT ALL LOCATIONS UNLESS NOTED OTHERWISE.
5. REFERENCE ROOF PLAN & BUILDING SECTIONS FOR SLOPE INFORMATION.
6. REFERENCE STRUCTURAL DRAWINGS FOR ALL STRUCTURAL SIZING.
7. AT ROOF ASSEMBLY, 15/32" MUL-HIDE PYROXL DECK PANEL HAVE A CLASS C FIRE RATING PER UL 790, AND CAN OBTAIN A FIRE RATED ROOF ASSEMBLY WHEN USED IN CONJUNCTION WITH 60 MIL MUL-HIDE FIRE RETARDANT EPDM (UL PRODUCT IQ LISTING R13850).



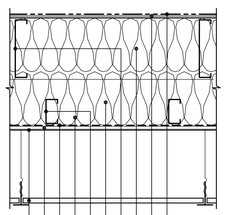
- FLOOR FINISH PER SHEET MA4.04
- 3/4" T&G STRUCTO-CRETE DECKING (REF. STRUCT. DWGS.)
- W12 BEYOND (REF. STRUCT. DWGS.)
- 8" C-JOISTS @ 24" O.C. (REF. STRUCT. DWGS.)

H1 FLOOR ASSEMBLY



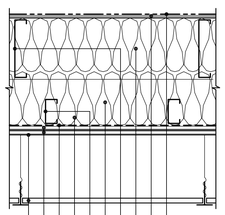
- FLOOR FINISH PER SHEET MA4.04
- 3/4" T&G STRUCTO-CRETE DECKING (REF. STRUCT. DWGS.)
- 6 MIL VAPOR BARRIER
- W12 BEYOND (REF. STRUCT. DWGS.)
- 3 1/2" GLASS FIBER INSULATION
- 8" C-JOISTS @ 24" O.C. (REF. STRUCT. DWGS.)
- 4" C-JOISTS @ 24" O.C. (REF. STRUCT. DWGS.)
- 1/2" RESILIENT CHANNELS @ 12" O.C.
- 5/8" GYPSUM BOARD, TYPE X

H2 FLOOR ASSEMBLY @ GENERATOR & EMER. ELECT. RM.
2 HOUR RATED - UL DESIGN H501



- 60 MIL MUL-HIDE FIRE RETARDANT EPDM
- 15/32" MUL-HIDE PYROXL DECK PANEL, CLASS C
- C8 BEYOND SLOPED AT 1/8" PER FOOT PER ROOF PLAN (REF. STRUCT. DWGS.)
- 8" C-JOISTS @ 24" O.C. (REF. STRUCT. DWGS.)
- C6 BEYOND (REF. STRUCT. DWGS.)
- 3 5/8" C-JOISTS @ 16" O.C. (REF. STRUCT. DWGS.)
- R-49 BATT INSULATION
- 6 MIL VAPOR BARRIER
- 5/8" GYPSUM BOARD, TYPE X
- PAINT FINISH ON GYP, OR SUSPENDED ACOUSTICAL CEILING TILES PER REFLECTED CEILING PLAN

H3 ROOF / CEILING ASSEMBLY



- 60 MIL MUL-HIDE FIRE RETARDANT EPDM
- 15/32" MUL-HIDE PYROXL DECK PANEL, CLASS C
- C8 BEYOND SLOPED AT 1/8" PER FOOT PER ROOF PLAN (REF. STRUCT. DWGS.)
- 8" C-JOISTS @ 24" O.C. (REF. STRUCT. DWGS.)
- C6 BEYOND (REF. STRUCT. DWGS.)
- 3 5/8" C-JOISTS @ 16" O.C. (REF. STRUCT. DWGS.)
- R-49 BATT INSULATION
- 6 MIL VAPOR BARRIER
- 5/8" GYPSUM BOARD TYPE X, 2 LAYERS
- PAINT FINISH ON GYP, OR SUSPENDED ACOUSTICAL CEILING TILES PER REFLECTED CEILING PLAN

H4 ROOF / CEILING ASSEMBLY - ADJACENT TO 2 HOUR WALLS
1 HOUR RATED SIMILAR TO GA FILE NO. RC2601

1 HORIZONTAL ASSEMBLIES
SCALE: 1 1/2" = 1'-0"
0 2" 4" 8" 16"

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SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

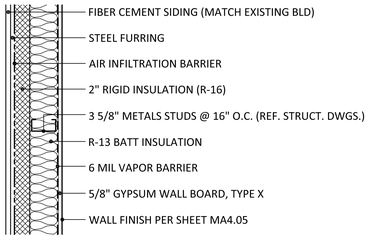
HORIZONTAL ASSEMBLIES
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

FEBRUARY 17 2025
IFH2402

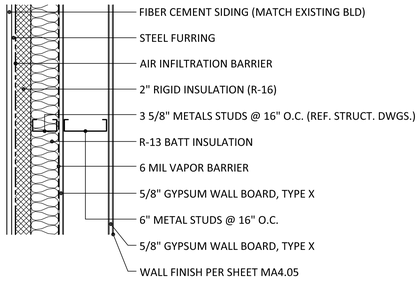
MA6.01

VERTICAL ASSEMBLY SHEET NOTES

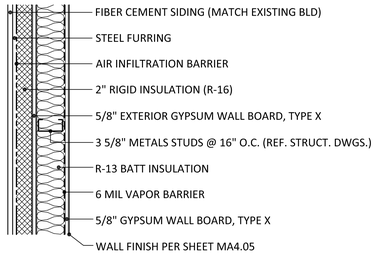
1. REFERENCE SHEET MA0-01 FOR GENERAL NOTES REGARDING ACOUSTICAL SEALANT, FIRE BLOCKING, AND FIRE STOPPING.
2. CONTINUOUS VAPOR BARRIER MUST BE MAINTAINED AT ALL TIMES. ANY PENETRATION THROUGH THE VAPOR BARRIER MUST BE COMPLETELY SEALED AND MAINTAINED TO PREVENT ANY MOISTURE FROM ENTERING THE WALLS.
3. CONTRACTOR TO PROVIDE ALL FASTENERS TYPE, DIMENSIONS, SPACING, ETC. TO MEET THE CALLED OUT FIRE RATED UL NUMBERS, GA FILE NUMBERS, AND ALL APPLICABLE CODE SECTIONS.
4. REFERENCE STRUCTURAL DRAWINGS FOR SHEAR WALL STRAPPING.
5. NOT ALL WALLS SHOWN AS RATED ON THIS SHEET ARE REQUIRED TO BE RATED. REFER TO CODE PLANS FOR ALL RATED WALL LOCATIONS.



V1 EXTERIOR WALL ASSEMBLY



V1a EXTERIOR WALL ASSEMBLY @ PLUMBING WALL

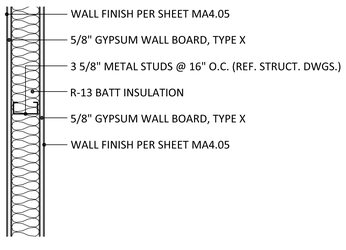


V1b EXTERIOR WALL ASSEMBLY - ADJACENT TO 2 HOUR WALLS
1 HOUR RATED - UL DESIGN U419

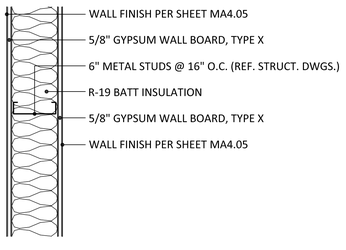
V2 MARRIAGE WALL ASSEMBLY
1 HOUR RATED FOR COMBINED WALLS - UL DESIGN U419

V2a MARRIAGE WALL ASSEMBLY @ PLUMBING WALL

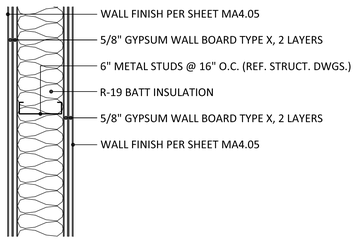
V2b MARRIAGE WALL ASSEMBLY @ GENERATOR & EMER. ELECT. RM.
2 HOUR RATED - UL DESIGN U419



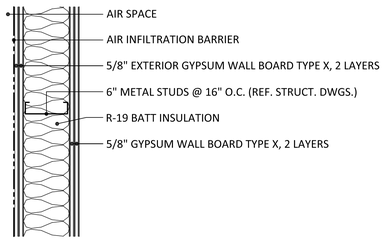
V3 INTERIOR 3 5/8" STUD WALL ASSEMBLY
1 HOUR RATED - UL DESIGN U419



V4 INTERIOR 6" STUD WALL ASSEMBLY
1 HOUR RATED - UL DESIGN U419



V5 INTERIOR WALL ASSEMBLY @ GENERATOR & EMER. ELECT. RM.
2 HOUR RATED - UL DESIGN U419



V6 BUILDING SEPARATION WALL ASSEMBLY
2 HOUR RATED - UL DESIGN U419

1 VERTICAL ASSEMBLIES
SCALE: 1 1/2" = 1'-0"
0 2" 4" 8" 16"

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SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

VERTICAL ASSEMBLIES
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

FEBRUARY 17 2025
IFH2402

MA6.02

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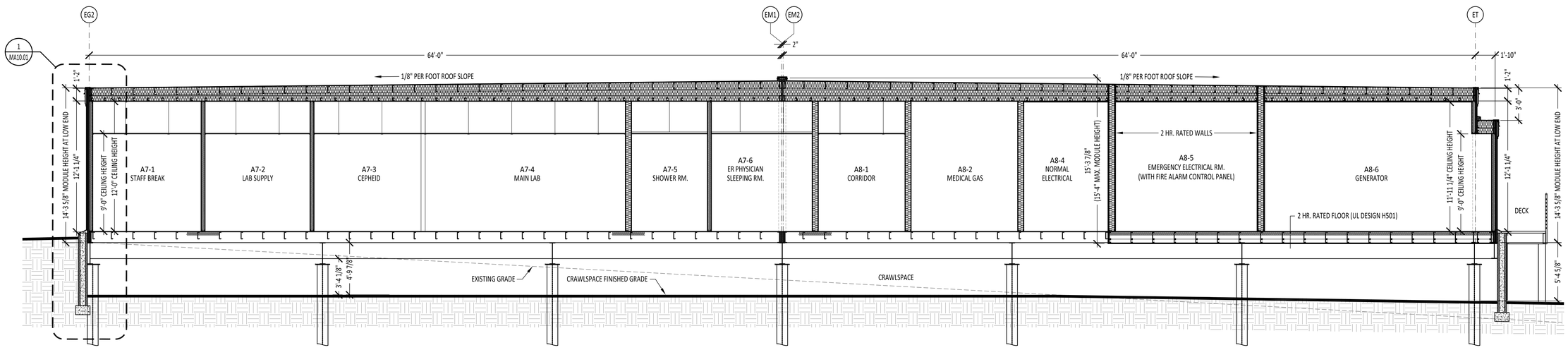
Iliuliuk Family and Health Services

SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

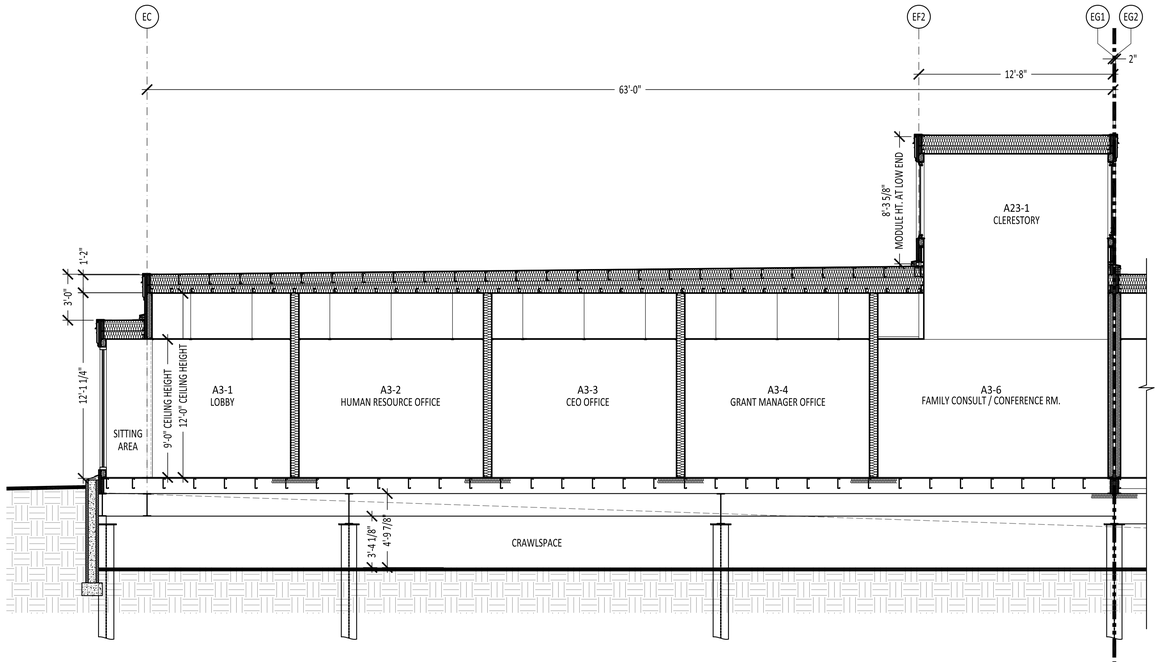
BUILDING SECTIONS
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

FEBRUARY 17 2025
IFH2402

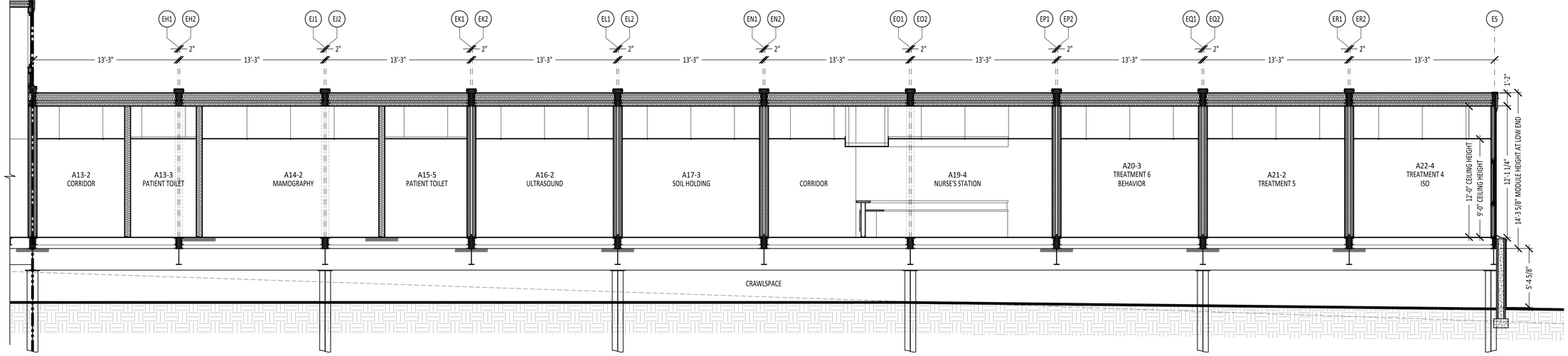
MA9.01



1 1
MA2.01
BUILDING SECTION
SCALE: 1/4" = 1'-0"
0 1' 2' 4' 8'



MATCH LINE



1 | 1
MA2.01

BUILDING SECTION

SCALE: 1/4" = 1'-0"

CROSS SECTION OF MODULES ARE SHOWN AT LOWEST END

0 1' 2' 4' 8'

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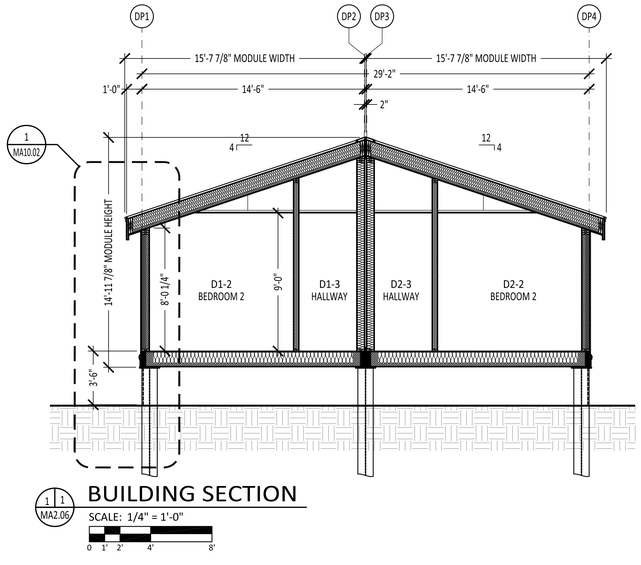
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SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

BUILDING SECTIONS
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

FEBRUARY 17 2025
IFH2402

MA9.02



1 1 MA2.06 **BUILDING SECTION**

SCALE: 1/4" = 1'-0"

0 1' 2' 4' 8'

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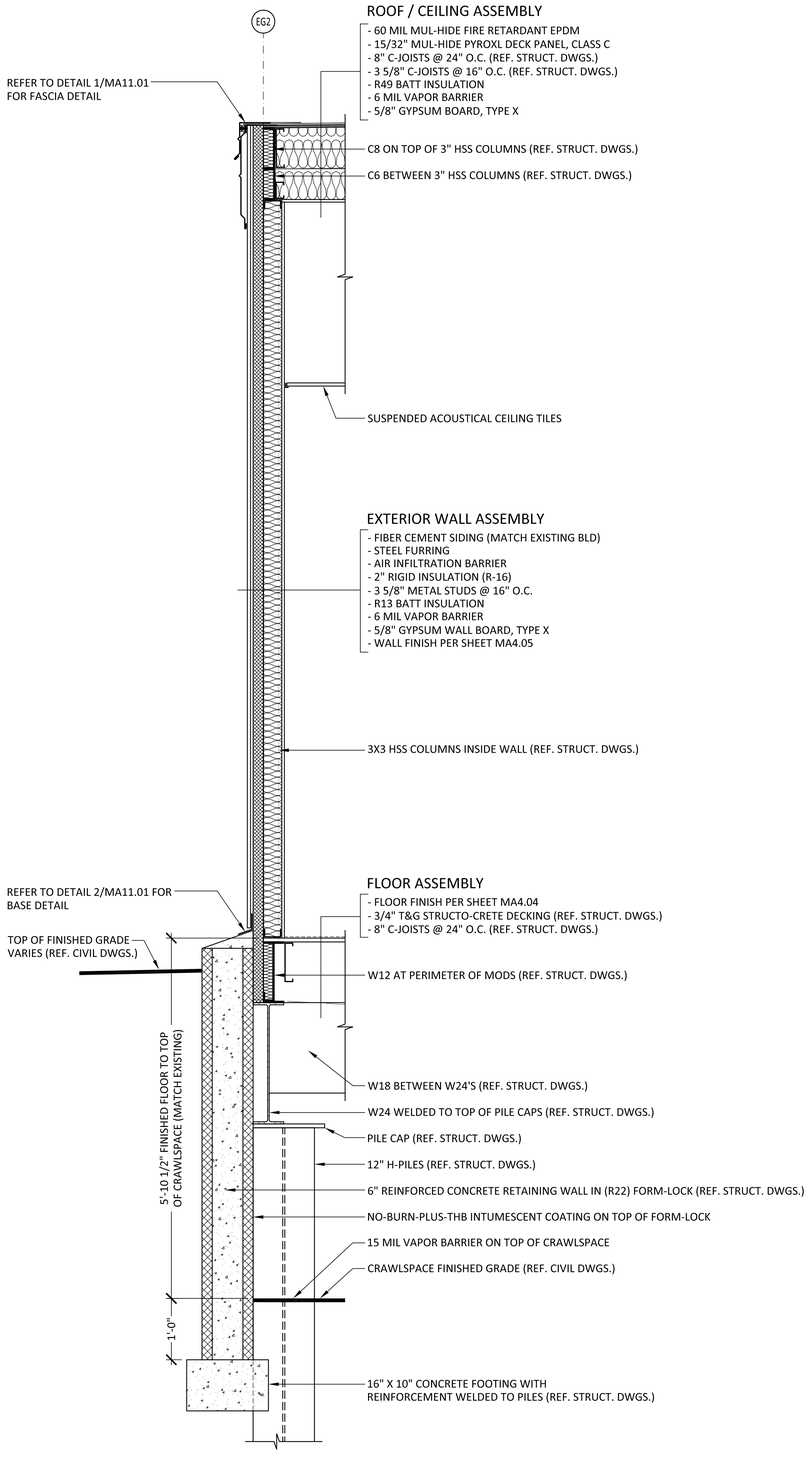
SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

DUPLEX BUILDING SECTIONS

IFHS EXPANSION & RENOVATION
ILULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

FEBRUARY 17 2025
IFH2402

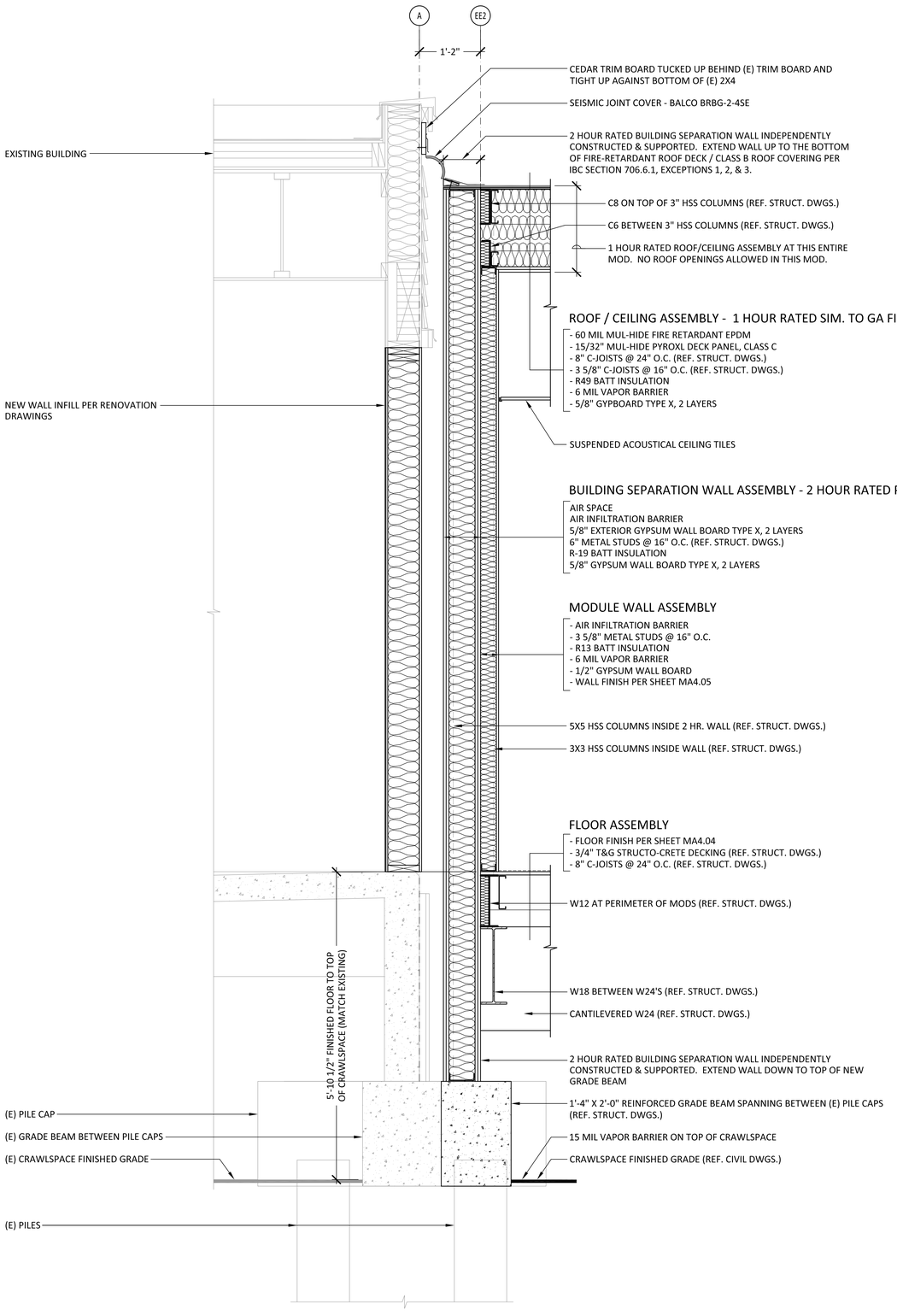
MA9.03



1 | 1 A9.01 WALL SECTION AT TYPICAL EXTERIOR WALL

SCALE: 1" = 1'-0"

0 3" 6" 1' 2'



1 | 2 MA2.01 WALL SECTION AT 2 HOUR BUILDING SEPARATION WALL

SCALE: 1" = 1'-0"

SECTION IS SHOWN AT HIGHEST POINT OF THIS MODULE AGAINST 2 HOUR WALL

0 3" 6" 1' 2'

GENERAL NOTES

1. ALL STEEL MEMBERS IN CRAWLSPACE ARE COATED TO PREVENT RUST.

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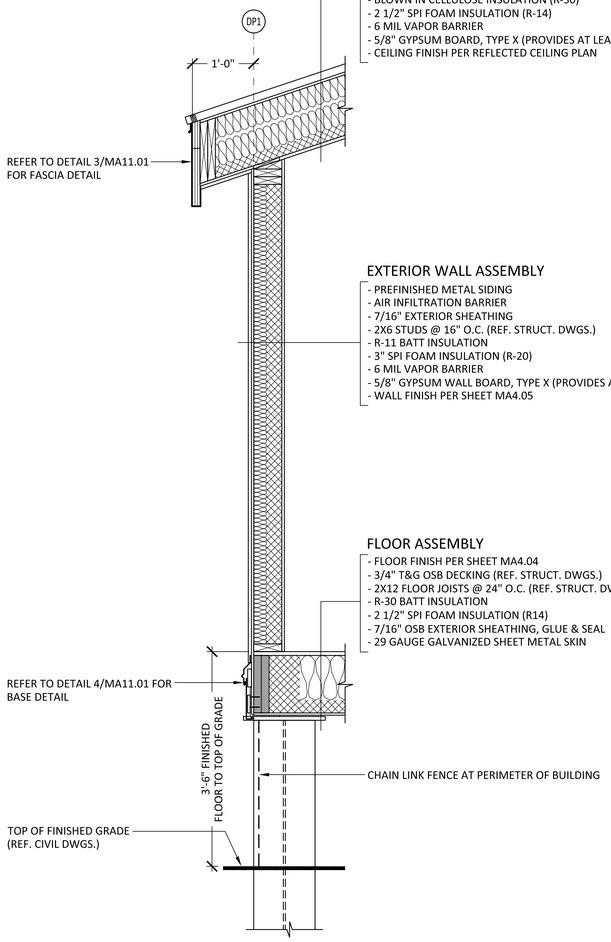
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SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

WALL SECTIONS
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

FEBRUARY 17 2025
IFH2402

MA10.01



ROOF / CEILING ASSEMBLY
- PREFINISHED STANDING SEAMS METAL ROOFING
- ICE & WATER SHIELD
- 1/2" EXTERIOR SHEATHING
- 2X12 ROOF JOISTS @ 24" O.C. (REF. STRUCT. DWGS.)
- BLOWN IN CELLULOSE INSULATION (R-30)
- 2 1/2" SPI FOAM INSULATION (R-14)
- 6 MIL VAPOR BARRIER
- 5/8" GYPSUM BOARD, TYPE X (PROVIDES AT LEAST 15 MIN. THERMAL BARRIER PER IBC SECTION 2603.4)
- CEILING FINISH PER REFLECTED CEILING PLAN

EXTERIOR WALL ASSEMBLY
- PREFINISHED METAL SIDING
- AIR INFILTRATION BARRIER
- 7/16" EXTERIOR SHEATHING
- 2X6 STUDS @ 16" O.C. (REF. STRUCT. DWGS.)
- R-11 BATT INSULATION
- 3" SPI FOAM INSULATION (R-20)
- 6 MIL VAPOR BARRIER
- 5/8" GYPSUM WALL BOARD, TYPE X (PROVIDES AT LEAST 15 MIN. THERMAL BARRIER PER IBC SECTION 2603.4)
- WALL FINISH PER SHEET MA4.05

FLOOR ASSEMBLY
- FLOOR FINISH PER SHEET MA4.04
- 3/4" T&G OSB DECKING (REF. STRUCT. DWGS.)
- 2X12 FLOOR JOISTS @ 24" O.C. (REF. STRUCT. DWGS.)
- R-30 BATT INSULATION
- 2 1/2" SPI FOAM INSULATION (R14)
- 7/16" OSB EXTERIOR SHEATHING, GLUE & SEAL
- 29 GAUGE GALVANIZED SHEET METAL SKIN

1 / A9.03 WALL SECTION AT TYPICAL DUPLEX EXTERIOR WALL

SCALE: 1" = 1'-0"

0 3" 6" 1' 2'

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Iliuliuk Family and Health Services

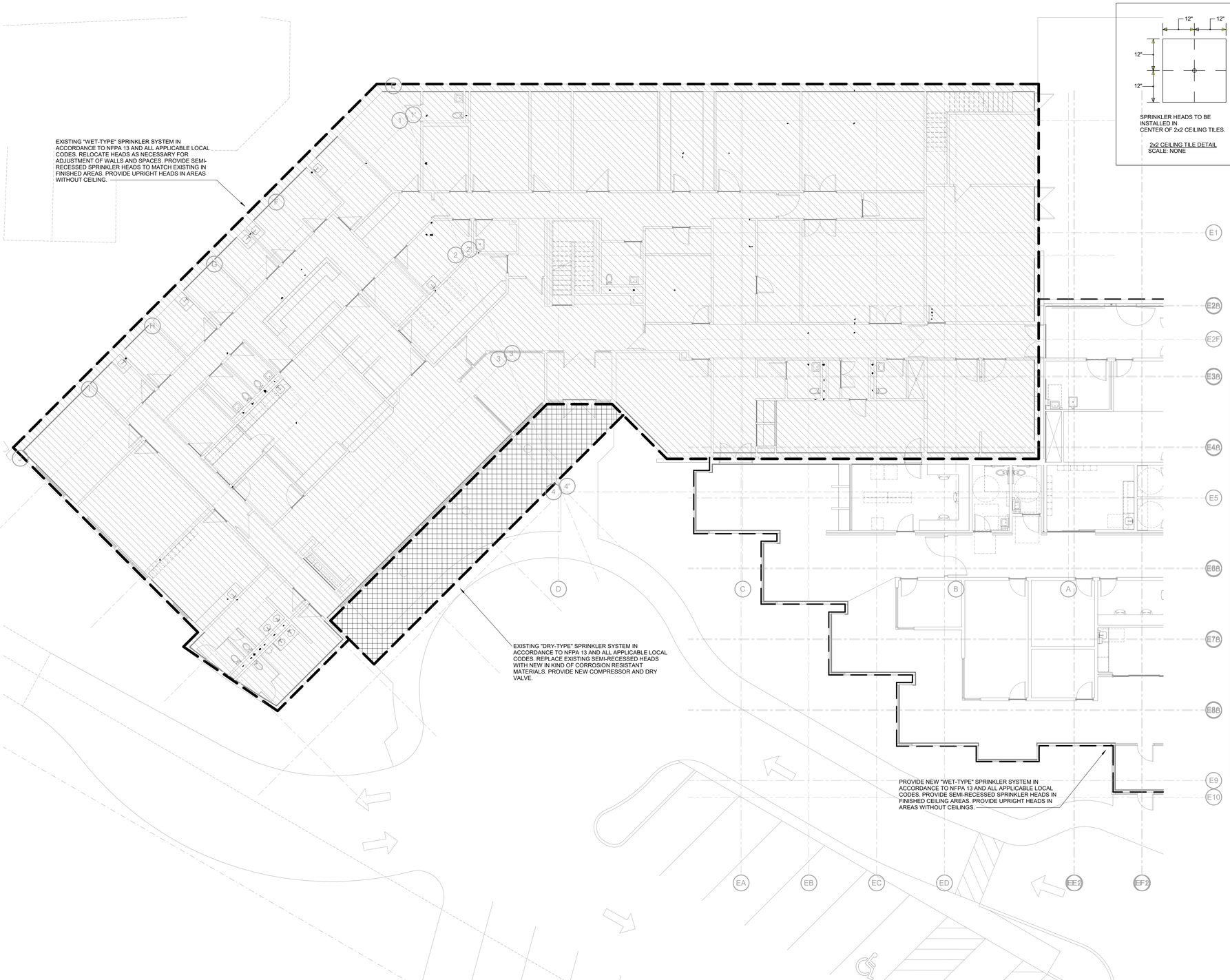
SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

DUPLEX WALL SECTIONS

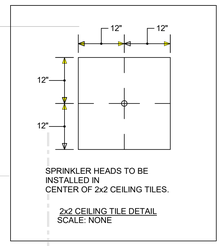
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UNALASKA, AK

FEBRUARY 17 2025
IFH2402

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FIRST FLOOR FIRE PROTECTION - AREA
1 A
1/8" = 1'-0"



SPRINKLER HEADS TO BE INSTALLED IN CENTER OF 2x2 CEILING TILES.

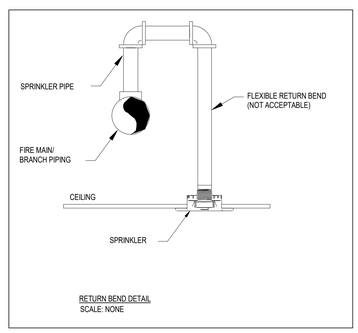
2x2 CEILING TILE DETAIL
SCALE: NONE

FIRE PROTECTION LEGEND

"SEMI-RECESSED" SPRINKLER HEAD WITH REMOVABLE ESCUTCHEON PLATE	
UPRIGHT TYPE SPRINKLER HEAD	
SIDEWALL TYPE SPRINKLER HEAD	
FIRE PROTECTION PIPING TO BE REMOVED	E(FP)
NEW FIRE PROTECTION PIPING	FP
EXISTING FIRE PROTECTION PIPING	E(FP)
FIRE VALVE CABINET	FVC
POINT OF DEMOLITION TERMINATION	
DOUBLE CHECK VALVE	
NEW O.S.&Y VALVE	
TAMPER SWITCH	TS
FLOW SWITCH	FS
PIPING RISE UP	
PIPING DOWN	
CONNECT TO EXISTING	

FIRE PROTECTION DESIGN NOTES:

1. ALL AREAS SHALL BE 100% COVERED WITH A FIRE PROTECTION SYSTEM DESIGNED IN ACCORDANCE WITH NFPA 13. THE OUTLINED AREA SHALL BE PROTECTED WITH A WET TYPE SYSTEM UNLESS NOTED OTHERWISE.
2. THE SUCCESSFUL FIRE PROTECTION CONTRACTOR SHALL OBTAIN AND UTILIZE THE ARCHITECTURAL REFLECTED CEILING PLAN FOR LAYING OUT THE SPRINKLER HEADS. THE REFLECTED CEILING PLANS SHOWN ARE TO COORDINATE CEILING TYPES AND LOCATIONS, REFER TO THE MECHANICAL AND ELECTRICAL DRAWINGS FOR CEILING DEVICE LOCATIONS. REFER TO SPECIFICATIONS FOR COORDINATION DRAWING REQUIREMENTS.
3. ALL OUTLINED AREAS SHALL HAVE "SEMI-RECESSED" QUICK RESPONSE TYPE SPRINKLER HEADS (UNLESS OTHERWISE NOTED ON THE PLANS). HEADS SHALL BE FED FROM A RETURN BEND ARRANGEMENT.
4. UTILIZE UPRIGHT AND/OR WALL MOUNTED TYPE SPRINKLER HEADS IN AREAS WITHOUT CEILINGS.
5. ALL SPRINKLER HEADS TO BE CENTERED IN BOTH DIRECTIONS OF A 2' x 4' OR 2' x 2' CEILING TILE. REFER TO CEILING GRID DETAILS BELOW.
6. HVAC DUCTWORK MAINS SHALL BE INSTALLED PRIOR TO FIRE PROTECTION PIPING. PROVIDE DRAIN VALVES IN THE FIRE PROTECTION SYSTEM WHERE NECESSARY TO COMPLETELY DRAIN THE SYSTEM.
7. REFER TO THE SPECIFICATIONS FOR THE DIFFERENT SPRINKLER HEAD TYPES.
8. PROVIDE ALL REQUIRED DRAIN PIPING TO TEST FLOW SWITCHES. DISCHARGE DRAIN PIPING TO OUTDOORS OR A FLOOR DRAIN.
9. SIZE ALL FIRE PROTECTION PIPING IN ACCORDANCE WITH NFPA 13. PIPE SIZING SHALL BE ACCOMPLISHED USING HYDRAULIC CALCULATIONS.
10. SUBMIT HYDRAULIC CALCULATIONS AND SYSTEMS DESIGN FOR REVIEW TO: THE M/E ENGINEER.
11. IF REQUIRED, THE SUCCESSFUL CONTRACTOR SHALL PERFORM A NEW FLOW TEST BEFORE STARTING ANY DESIGN WORK OR CALCULATIONS.
12. REFER TO A COMPLETE SET OF DOCUMENTS (ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL PLANS AND SPECIFICATIONS) FOR COORDINATION OF TRADES, ROOMS, STRUCTURE AND EQUIPMENT.
13. WHERE CEILINGS ARE INDICATED ALL SPRINKLER PIPING MUST BE INSTALLED ABOVE CEILINGS. SPRINKLER PIPING MUST BE COORDINATED WITH OTHER TRADES PIPING MUST BE OFFSET TO AVOID CONFLICTS WITH DUCTWORK, CONDUIT, ALL EQUIPMENT, ETC.



RETURN BEND DETAIL
SCALE: NONE

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FIRST FLOOR FIRE PROTECTION - AREA A

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F1.0A



1 FIRST FLOOR FIRE PROTECTION - AREA B
1/8" = 1'-0"

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FIRST FLOOR FIRE PROTECTION AREA B

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MEDICAL GAS OUTLETS / VALVE BOX SCHEDULE

SYMBOL	FIXTURE	PIPE SIZE
MG-1	WALL OUTLETS - (1) OXYGEN, (1) VACUUM, (1) MEDICAL AIR, (1) SLIDE	1/2" O; 3/4" MV; 1/2" MA
MG-2	WALL OUTLETS - (1) OXYGEN, (3) VACUUM, (1) MEDICAL AIR	1/2" O; 1/2" MA
MG-3	WALL OUTLETS - (3) OXYGEN, (3) VACUUM, (3) MEDICAL AIR, (3) SLIDE	1/2" O; 3/4" MV; 1/2" MA
MG-4	WALL OUTLETS - (2) OXYGEN, (3) VACUUM, (1) MEDICAL AIR, (2) SLIDE	1/2" O; 3/4" MV; 1/2" MA
MG-5	WALL OUTLETS - (1) OXYGEN, (1) MEDICAL AIR	1/2" O; 1/2" MA
MG-6	WALL OUTLETS - (1) OXYGEN, (2) VACUUM, (1) MEDICAL AIR, (2) SLIDE	1/2" O; 3/4" MV; 1/2" MA
MG-7	WALL OUTLETS - (3) OXYGEN, (3) VACUUM, (3) MEDICAL AIR, (2) SLIDE	1/2" O; 3/4" MV; 1/2" MA
MG-B	MEDICAL GAS BOOM - (2) OXYGEN, (3) VACUUM, (1) NITROUS OXIDE, (1) MEDICAL AIR, (1) WASTE GAS	1/2" O; 3/4" MV; 1/2" NO2; 1/2" MA; 3/4" WAGD
SVB-#	MEDICAL GAS SHUT-OFF ZONE VALVE BOX (COUNT CORRESPONDS TO NUMBER OF GASSES)	REFER TO PLANS
LPA-#	LINE PRESSURE ALARM PANEL (COUNT CORRESPONDS TO NUMBER OF GASSES)	REFER TO PLANS

MEDICAL VACUUM PUMP

TAG	MANUFACTURER	MODEL #	TYPE	SCFM @ 19" HG (EACH PUMP)	RECEIVER SIZE	UL LISTED CONTROL PANEL	VIBRATION DAMPENERS	FLEXIBLE CONNECTORS	MAIN VACUUM LINE SHUT-OFF VALVE	LOW PRESSURE SWITCH	NFPA 99 COMPLIANCE	MOTOR HP	VOLTAGE	PHASE	FREQUENCY
MVP-01	POWEREX	VVOTD0151	OIL-LESS VANE DUPLEX	5.3	30	YES	YES	YES	YES	YES	YES	1.5	460	3	60

MEDICAL AIR COMPRESSOR SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	SCFM @ 50 PSI	HP	TANK VOLUME (GAL)	FLA	VOLTAGE	PHASE	FREQUENCY
MAC-01	POWEREX	MSD02A3	MEDICAL SCROLL SKIDMOUNT PACKAGE DUPLEX	6	2	80	8 A	208 V	3	60

MEDICAL GAS GENERAL NOTES:

A. COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC., WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC., PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
B. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC., OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
C. WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN, PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK. NEW TILE AND GRID SHALL MATCH THE SURROUNDING AREAS. ALL PATCHING WORK SHALL MATCH ADJACENT SURFACES.
D. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.
E. COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.
F. PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNER'S STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IF DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
G. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)
H. CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.
I. IF AREA OF CONSTRUCTION HAS A POST TENSION FLOOR SLAB. CONTRACTOR SHALL USE ULTRA SOUND OR OTHER APPROVED METHODS TO SURVEY THE EXISTING FLOOR STRUCTURE BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS. WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDRONIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.
J. ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
K. ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.
L. ALL PIPING IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.
M. IN ACCORDANCE WITH K.R.S. ALL PLUMBING WORK SHALL BE CONSTRUCTED IN COMPLIANCE WITH PLANS APPROVED BY AND BEARING THE APPROVAL STAMP OF THE KENTUCKY DIVISION OF PLUMBING AND/OR THE DIVISION OF WATER. THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL HE HAS RECEIVED SUCH APPROVED PLANS.
N. LOCATIONS OF PIPING AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
O. ALL OFFSETS IN PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
P. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES OR OTHER COSTS THAT ANY UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (GAS, SEWER, WATER, ETC.).
Q. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
R. DOUBLE WIDTH TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS. TURNING VANES NOT REQUIRED FOR KITCHEN EXHAUSTS.
S. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
T. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
U. VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILINGS. IN GENERAL ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.
V. ALL MANHOLES, VAULTS AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
W. WHEN RUNNING ANY TYPE OF PIPING BELOW A FOOTER, OR IN THE ZONE OF INFLUENCE THE PIPING SHALL BE BACKFILLED WITH CEMENTITIOUS FLOWABLE FILL PER SPECIFICATIONS. WHENEVER POSSIBLE, LOCATE PIPING OUTSIDE OF THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE TRAPS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE.
X. WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.
Y. THE DOCUMENTS COMPLY WITH 2015 IMC, 2018 KBC, AND 2012 IECC.
Z. THE DOCUMENTS COMPLY WITH 2015 IMC, 2018 KBC, AND ASHRAE 90.1-2010.
AA. ALL ABOVE CEILING ISOLATION VALVES TO BE LOCKABLE PER NFPA 99 AND NORMALLY OPEN.

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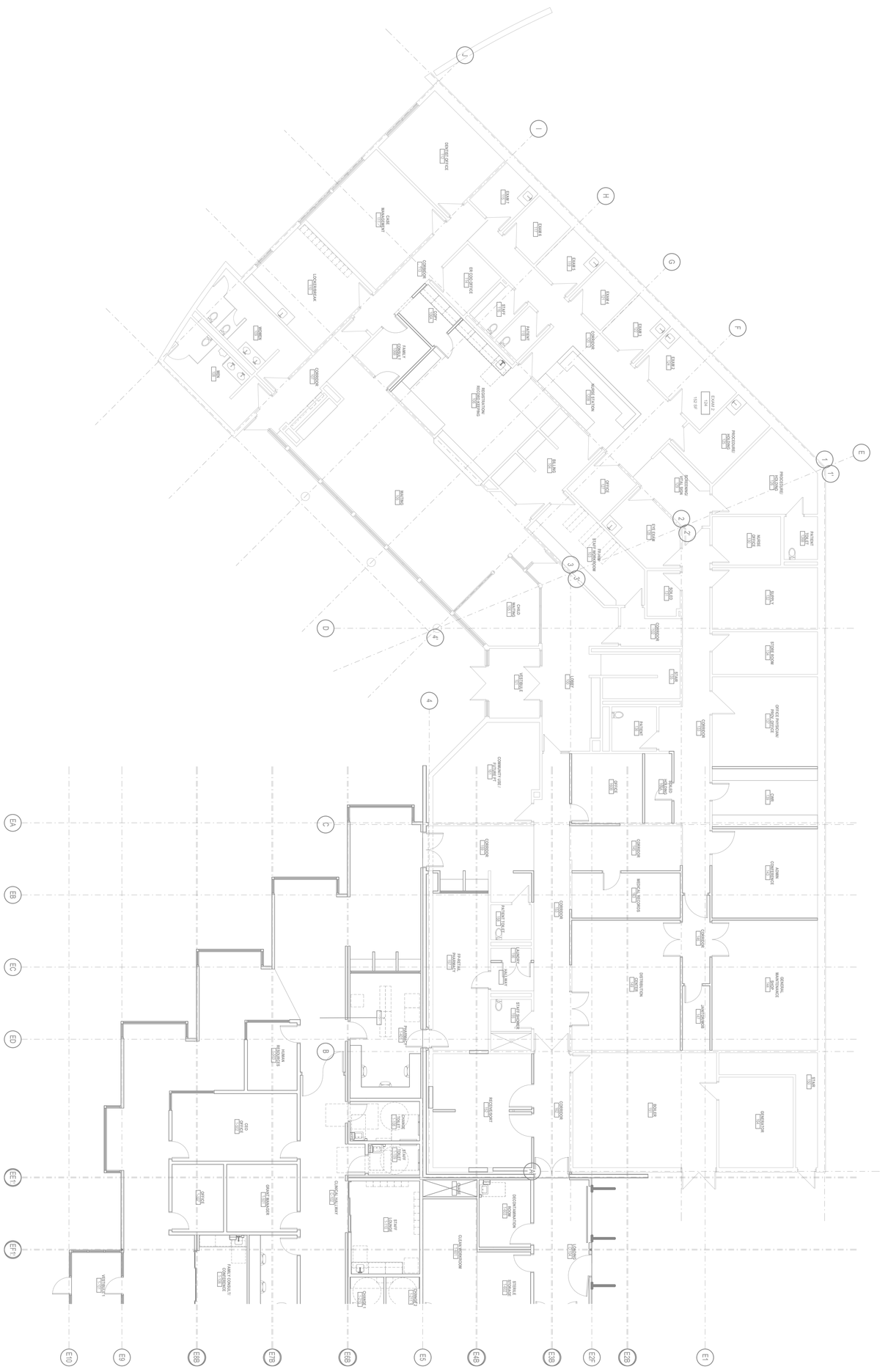
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MEDGAS LEGEND AND DETAILS

IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
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MG1.0



1 FIRST FLOOR MEDGAS - AREA A
1/8" = 1'-0"

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FIRST FLOOR MEDGAS - AREA A

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MG2.1A

SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION



1 FIRST FLOOR MEDGAS - AREA B
1/8" = 1'-0"

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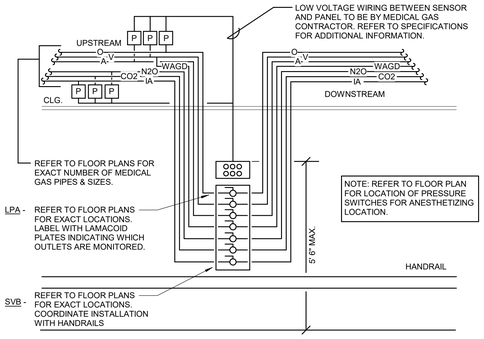
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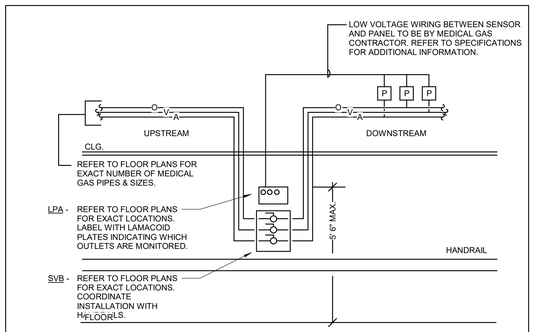
MG2.1B



TYPICAL MEDICAL GAS VALVE BOX / ALARM PANEL PIPING SCHEMATIC

ANESTHETIZING LOCATION.

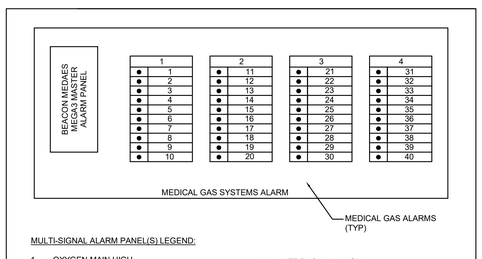
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TYPICAL MEDICAL GAS VALVE BOX / ALARM PANEL PIPING SCHEMATIC

NON-ANESTHETIZING LOCATION.

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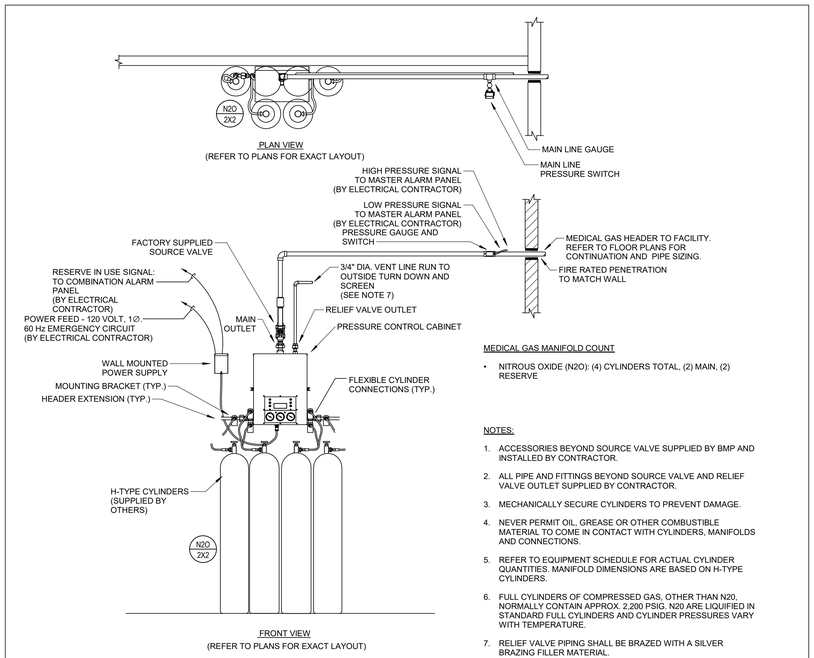


MULTI-SIGNAL ALARM PANEL(S) LEGEND:

1	1. OXYGEN MAIN HIGH	2	14. NITROUS MAIN HIGH
	2. OXYGEN MAIN LOW		15. NITROUS MAIN LOW
	3. OXYGEN RESERVE IN USE		16. NITROUS RESERVE IN USE
	4. OXYGEN MAIN LIQUID LOW		17. CARBON DIOXIDE MAIN HIGH
	5. OXYGEN RESERVE LIQUID LOW		18. CARBON DIOXIDE MAIN LOW
	6. OXYGEN RESERVE PRESSURE LOW		19. CARBON DIOXIDE RESERVE IN USE
	7. MEDICAL AIR HIGH		20. BLANK
	8. MEDICAL AIR LOW	3	21. INSTRUMENT AIR HIGH
	9. MEDICAL AIR DEW POINT		22. INSTRUMENT AIR LOW
	10. MEDICAL AIR SYSTEM MALFUNCTION		23. INSTRUMENT AIR SYSTEM MALFUNCTION
	11. MEDICAL VAC LOW VAC		24 THROUGH 30. (BLANK)
2	12. MEDICAL VAC LAG PUMP IN USE	4	30 THROUGH 40. (BLANK)
	13. MEDICAL VAC PUMP HIGH TEMPERATURE		

MULTI-SIGNAL ALARM PANEL (MSA) SCHEMATIC

NTS



MEDICAL GAS MANIFOLD COUNT

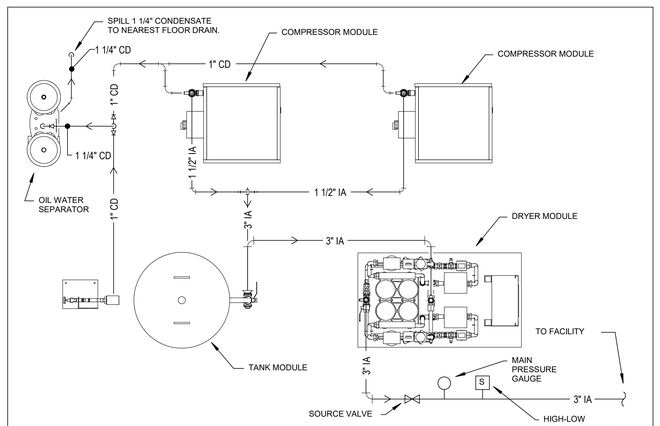
- NITROUS OXIDE (N2O): (4) CYLINDERS TOTAL, (2) MAIN, (2) RESERVE

NOTES:

1. ACCESSORIES BEYOND SOURCE VALVE SUPPLIED BY BMP AND INSTALLED BY CONTRACTOR.
2. ALL PIPE AND FITTINGS BEYOND SOURCE VALVE AND RELIEF VALVE OUTLET SUPPLIED BY CONTRACTOR.
3. MECHANICALLY SECURE CYLINDERS TO PREVENT DAMAGE.
4. NEVER PERMIT OIL, GREASE OR OTHER COMBUSTIBLE MATERIAL TO COME IN CONTACT WITH CYLINDERS, MANIFOLDS AND CONNECTIONS.
5. REFER TO EQUIPMENT SCHEDULE FOR ACTUAL CYLINDER QUANTITIES. MANIFOLD DIMENSIONS ARE BASED ON H-TYPE CYLINDERS.
6. FULL CYLINDERS OF COMPRESSED GAS, OTHER THAN N20, NORMALLY CONTAIN APPROX. 2,200 PSIG. N20 ARE LIQUIFIED IN STANDARD FULL CYLINDERS AND CYLINDER PRESSURES VARY WITH TEMPERATURE.
7. RELIEF VALVE PIPING SHALL BE BRAZED WITH A SILVER BRAZING FILLER MATERIAL.
8. ALL MANIFOLDS SHALL USE STAINLESS STEEL BRAIDED PIGTAILS.

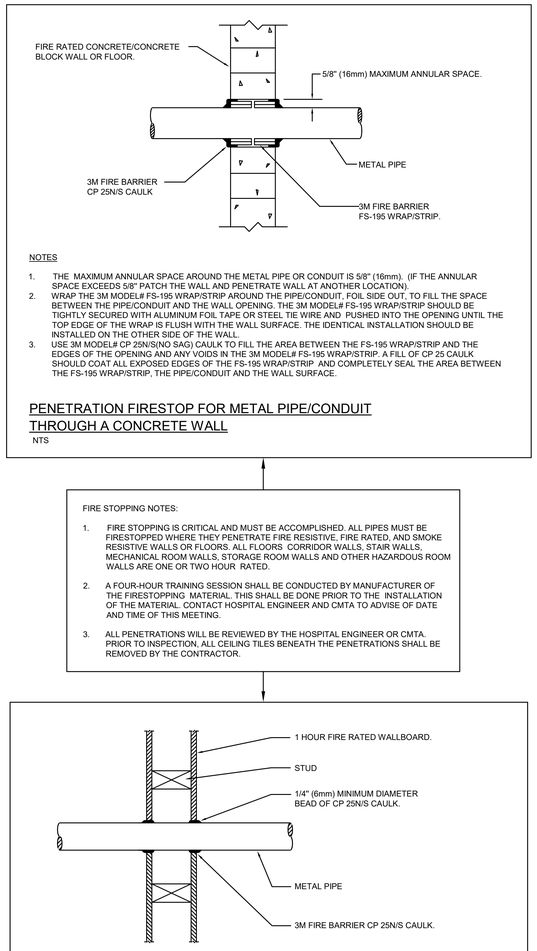
TYPICAL MEDICAL GAS MANIFOLD DETAIL

NTS



INSTRUMENT AIR COMPRESSOR DETAIL

NTS



NOTES

1. THE MAXIMUM ANNULAR SPACE AROUND THE METAL PIPE OR CONDUIT IS 5/8" (16mm). (IF THE ANNULAR SPACE EXCEEDS 5/8" PATCH THE WALL AND PENETRATE WALL AT ANOTHER LOCATION).
2. WRAP THE 3M MODEL# FS-195 WRAP/STRIP AROUND THE PIPE/CONDUIT, FOIL SIDE OUT, TO FILL THE SPACE BETWEEN THE PIPE/CONDUIT AND THE WALL OPENING. THE 3M MODEL# FS-195 WRAP/STRIP SHOULD BE TIGHTLY SECURED WITH ALUMINUM FOIL TAPE OR STEEL TIE WIRE AND PUSHED INTO THE OPENING UNTIL THE TOP EDGE OF THE WRAP IS FLUSH WITH THE WALL SURFACE. THE IDENTICAL INSTALLATION SHOULD BE INSTALLED ON THE OTHER SIDE OF THE WALL.
3. USE 3M MODEL# CP 25N/S(NO SAG) CAULK TO FILL THE AREA BETWEEN THE FS-195 WRAP/STRIP AND THE EDGES OF THE OPENING AND ANY VOIDS IN THE 3M MODEL# FS-195 WRAP/STRIP. A FILL OF CP 25 CAULK SHOULD COAT ALL EXPOSED EDGES OF THE FS-195 WRAP/STRIP AND COMPLETELY SEAL THE AREA BETWEEN THE FS-195 WRAP/STRIP, THE PIPE/CONDUIT AND THE WALL SURFACE.

PENETRATION FIRESTOP FOR METAL PIPE/CONDUIT THROUGH A CONCRETE WALL

NTS

FIRE STOPPING NOTES:

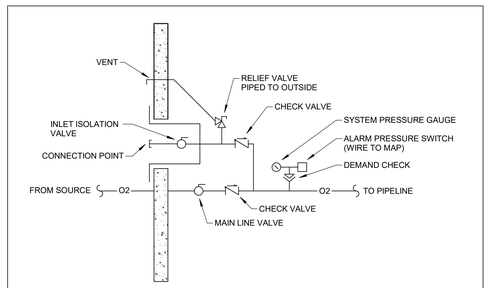
1. FIRE STOPPING IS CRITICAL AND MUST BE ACCOMPLISHED. ALL PIPES MUST BE FIRESTOPPED WHERE THEY PENETRATE FIRE RESISTIVE, FIRE RATED, AND SMOKE RESISTIVE WALLS OR FLOORS. ALL FLOORS CORRIDOR WALLS, STAIR WALLS, MECHANICAL ROOM WALLS, STORAGE ROOM WALLS AND OTHER HAZARDOUS ROOM WALLS ARE ONE OR TWO HOUR RATED.
2. A FOUR-HOUR TRAINING SESSION SHALL BE CONDUCTED BY MANUFACTURER OF THE FIRESTOPPING MATERIAL. THIS SHALL BE DONE PRIOR TO THE INSTALLATION OF THE MATERIAL. CONTACT HOSPITAL ENGINEER AND CMTA TO ADVISE OF DATE AND TIME OF THIS MEETING.
3. ALL PENETRATIONS WILL BE REVIEWED BY THE HOSPITAL ENGINEER OR CMTA. PRIOR TO INSPECTION, ALL CEILING TILES BENEATH THE PENETRATIONS SHALL BE REMOVED BY THE CONTRACTOR.

NOTES

1. FORCE THE 3M MODEL# CP 25N/S CAULK INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE, FLUSH WITH THE EXTERIOR OF THE PENETRATION SURFACE.
2. FINISH CAULKING WITH A 1/4" (6mm) MINIMUM BEAD OF CP 25N/S CAULK APPLIED TO THE PERIMETER OF THE CONDUIT/PIPE AT ITS EGRESS FROM THE WALL.
3. THE MAXIMUM ANNULAR SPACE IS NOT TO EXCEED 3/16" (5mm). (IF IT DOES PATCH WALL AND PENETRATE WALL AT ANOTHER LOCATION).
4. INSTALL THE 3M FIRESTOP ON BOTH SIDES OF THE WALL.

PENETRATION FIRESTOP FOR METAL PIPE/CONDUIT THROUGH ONE HOUR WALL

NTS



EMERGENCY OXYGEN CONNECTION DETAIL

NTS

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SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

MEDGAS DETAILS

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MG3.0

EXPANSION TANK

TAG	ET-1
MANUFACTURER	WATTS
MODEL	DETA-12
MAX. PRESSURE (PSI)	150
MAX. TEMPERATURE	160 F
TANK VOLUME (GAL.)	5.0
TANK ACCEPTANCE (GAL.)	3.0

RECIRCULATING PUMP

TAG	DP-1
MANUFACTURER	BELL & GOSSETT
MODEL	PL 45
VOLTAGE / PHASE	120 / 1Ø
HP	1/6
FLOW (GPM)	9.0
HEAD (FT.)	25.0
ALL BRONZE BODY	YES
100% LEAD FREE	YES

WATER HEATER

TAG	WH-1/WH-2
MANUFACTURER	BOCK
MODEL	50ES WITH
GAS INPUT (BTUH)	140,000
GALLONS STORAGE	50
GPH RECOVERY @ 100°F RISE	151
VOLTAGE / MAX FUSE	120 / 5 AMPS
ASME RATED	YES
UL LISTED	YES

REMARKS:
1. EQUAL WATER HEATER BY LOCHINVAR, STATE, AND BOCK.

PLUMBING FIXTURE SCHEDULE

DESIGNATOR	FIXTURE	CW	HW	SAN	VENT
P-1A	WATER CLOSET, WALL HUNG - PATIENT - ADA WITH BEDPAN WASHER	1 1/4"	--	4"	2"
P-1B	WATER CLOSET, WALL HUNG - STAFF - ADA - MANUAL	1 1/4"	--	4"	2"
P-1C	WATER CLOSET, WALL HUNG - PUBLIC - ADA - ELECTRIC EYE	1 1/4"	--	4"	2"
P-1D	WATER CLOSET, FLOOR SET - BACK OUTLET - ADA - WITH BEDPAN WASHER	1 1/4"	--	4"	2"
P-2A	LAVATORY - INGETRAL BASIN - PATIENT - ADA - MANUAL GOOSENECK	1/2"	1/2"	2"	2"
P-2B	LAVATORY - INTEGRAL BASIN - PUBLIC - ADA - ELECTRIC EYE	1/2"	1/2"	2"	1 1/2"
P-2C	LAVATORY - WALL HUNG - STAFF - ADA - MANUAL GOOSENECK	1/2"	1/2"	2"	1 1/2"
P-3A	1 COMPARTMENT SINK - INTEGRAL BASIN - ELECTRIC EYE	1/2"	1/2"	2"	1 1/2"
P-3B	1 COMPARTMENT SINK - INTEGRAL BASIN - LOUNGE	1/2"	1/2"	2"	1 1/2"
P-4	CLINICAL SERVICE SINK	1 1/4"	3/4"	3"	1 1/2"
P-5A	30"X60" SHOWER	1/2"	1/2"	2"	1 1/2"
P-5B	30"X60" SHOWER - ADA	1/2"	1/2"	2"	1 1/2"
P-6A	ICE MAKER / COFFEE MAKER CONNECTION BOX - NOTE #5	1/2"	--	--	--
P-6B	CONDENSATE DRAIN OUTLET BOX	--	--	2"	1 1/2"
P-7	24"x24" JAN SINK	3/4"	3/4"	3"	1 1/2"
P-7A	TUB SINK	1/2"	1/2"	2"	1 1/2"
P-8	2 STATION RECESSED ELECTRIC WATER COOLER WITH BOTTLE FILLER	1/2"	--	2"	1 1/2"
P-9	SCRUB SINK	1/2"	1/2"	2"	1 1/2"

NOTES:

1 PIPE SIZES ARE AS INDICATED UNLESS OTHERWISE NOTED ON FLOOR PLANS AND RISER DIAGRAMS.

MINIMUM 2" SANITARY PIPING UNDERGROUND.

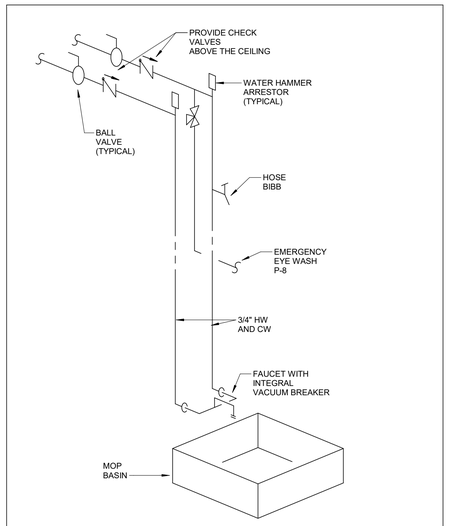
2 PROVIDE ALL REQUIRED PIPING TO FIXTURES INDICATED ON THE FLOOR PLANS, INDICATED WITH A "P" DESIGNATION. PROVIDE PIPING OF SIZE INDICATED IN THIS SCHEDULE, WHETHER INDICATED OR NOT.

3 ALL PLUMBING FIXTURES TO BE LOCATED AS PER THE ARCHITECTURAL FLOOR PLANS AND ELEVATIONS.

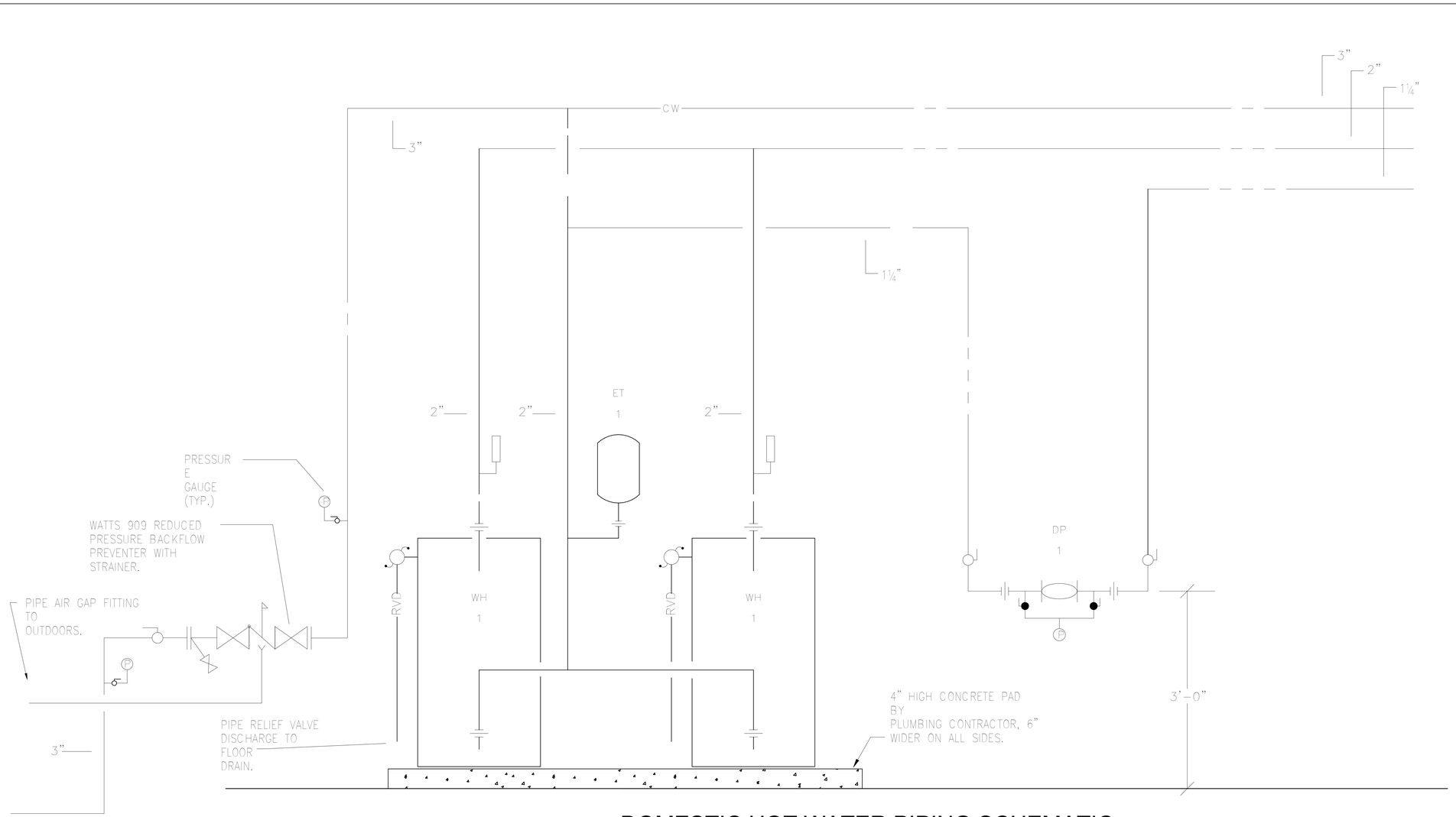
4 PIPE ALL EQUIPMENT (SUPPLIED BY OTHERS) AS REQUIRED TO OBTAIN A FULL AND OPERATIONAL SYSTEM. PROVIDE BACKFLOW PROTECTION AS/IF REQUIRED BY THE DETAILS AND BY THE KENTUCKY PLUMBING CODE. ALL EQUIPMENT SHALL BE CONNECTED PER THE MANUFACTURER'S REQUIREMENTS. THE PLUMBING CONTRACTOR SHALL ALSO INSTALL ANY DRAIN PIPING CONNECTIONS AND SPILL INDIRECTLY TO EITHER AN OPEN RECEPTICAL OR FLOOR DRAIN. REFER TO ARCHITECTURAL PLANS FOR EXACT PLACEMENT OF ALL EQUIPMENT.

5 IN PUBLIC WAITING AREAS, INSTALL WATER CONNECTION BOX IN CASEWORK. REFER TO ARCH. DRAWINGS.

COORDINATE WITH ELECTRICAL CONTRACTOR ALL ELECTRIC EYE FAUCET REQUIREMENTS.



MOP BASIN DETAIL
SCALE: NONE



DOMESTIC HOT WATER PIPING SCHEMATIC
NOT TO SCALE

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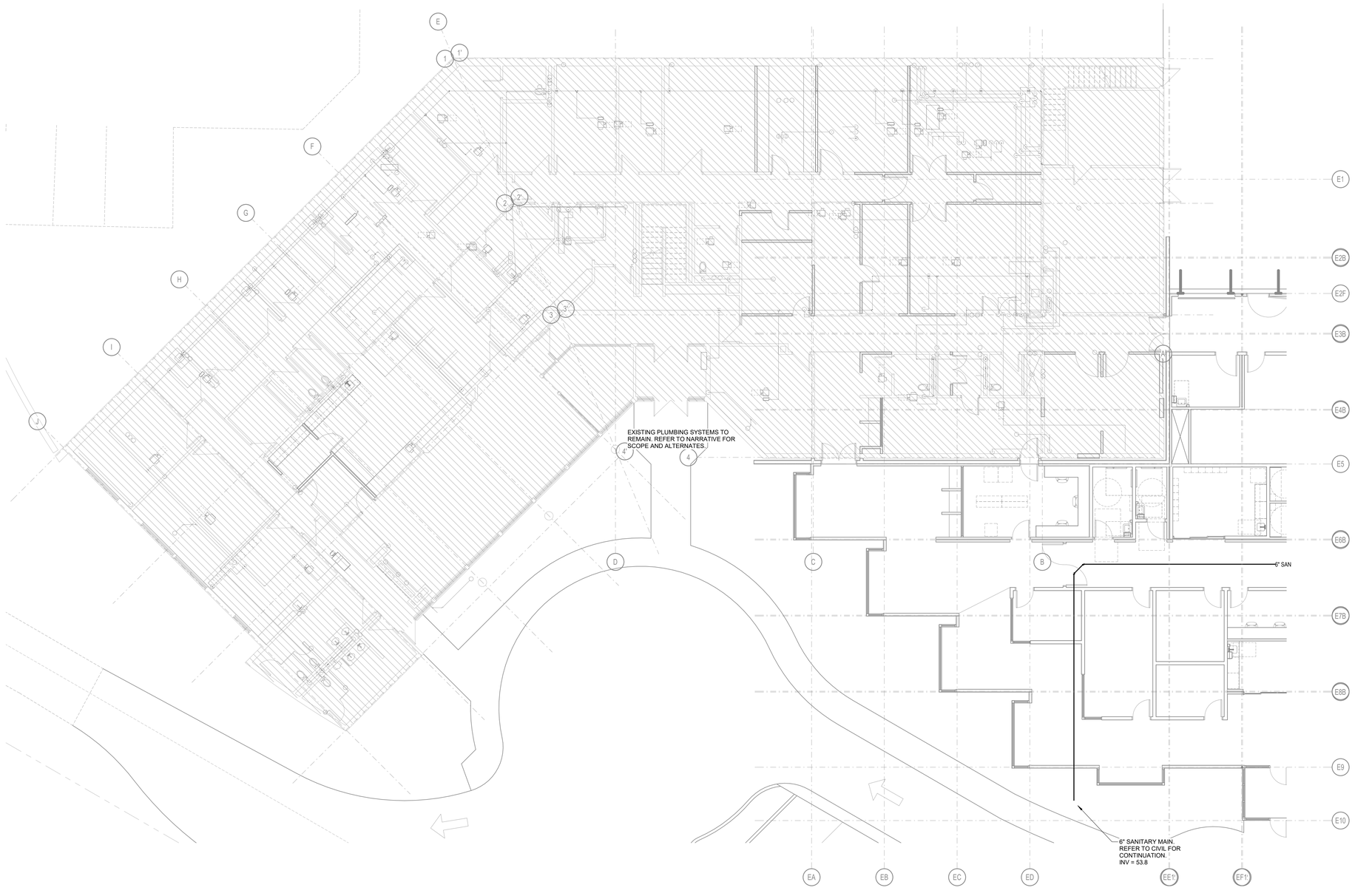
SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

PLUMBING LEGEND

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P1.0



1 FIRST FLOOR PLUMBING - AREA A
1/8" = 1'-0"

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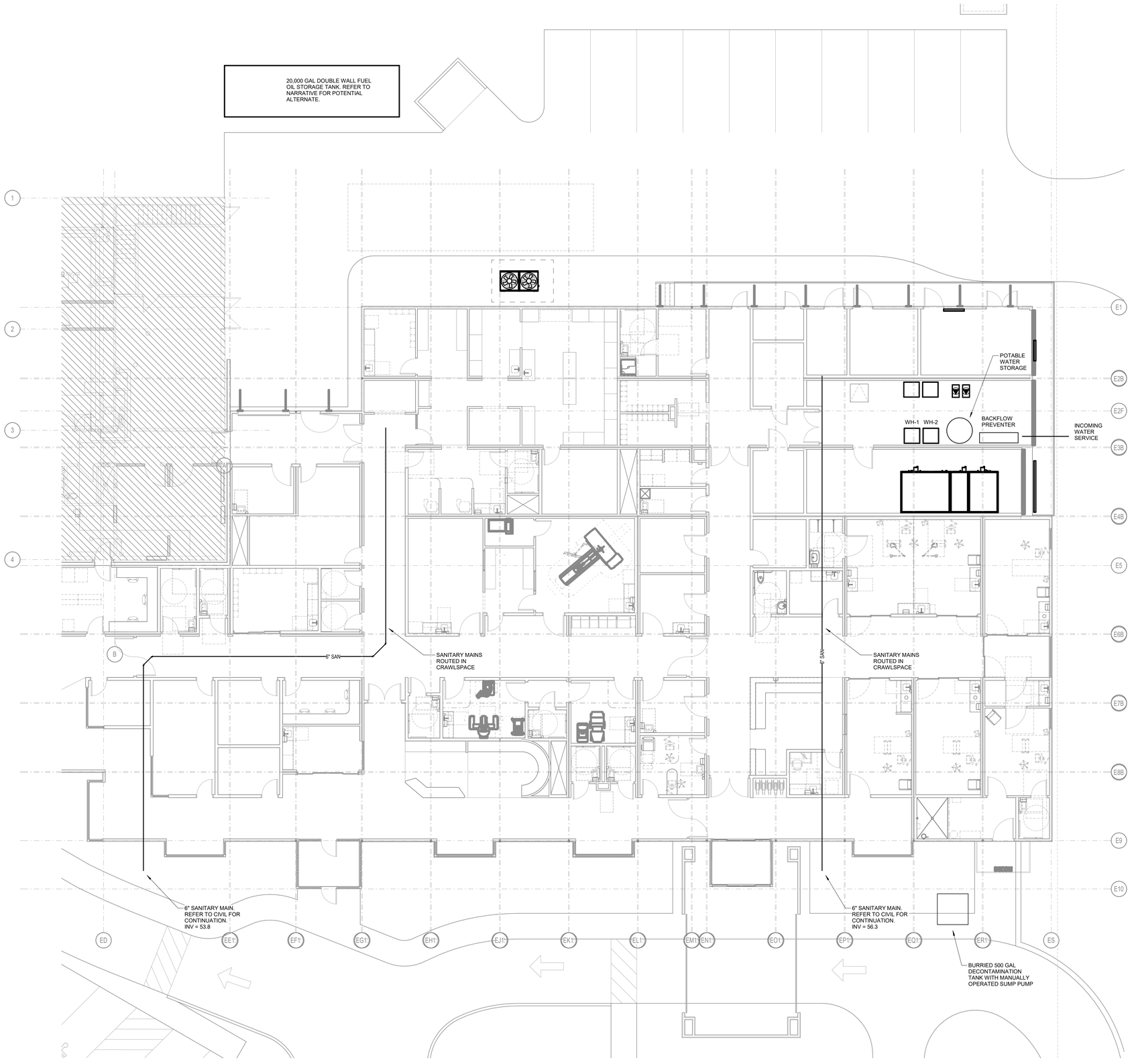
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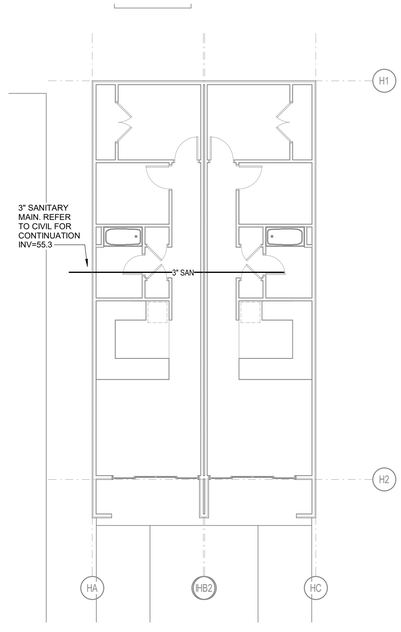
FIRST FLOOR PLUMBING - AREA A

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P2.1A





1 FIRST FLOOR PLUMBING - AREA B
1/8" = 1'-0"

2 APARTMENT UNITS PLUMBING
1/8" = 1'-0"

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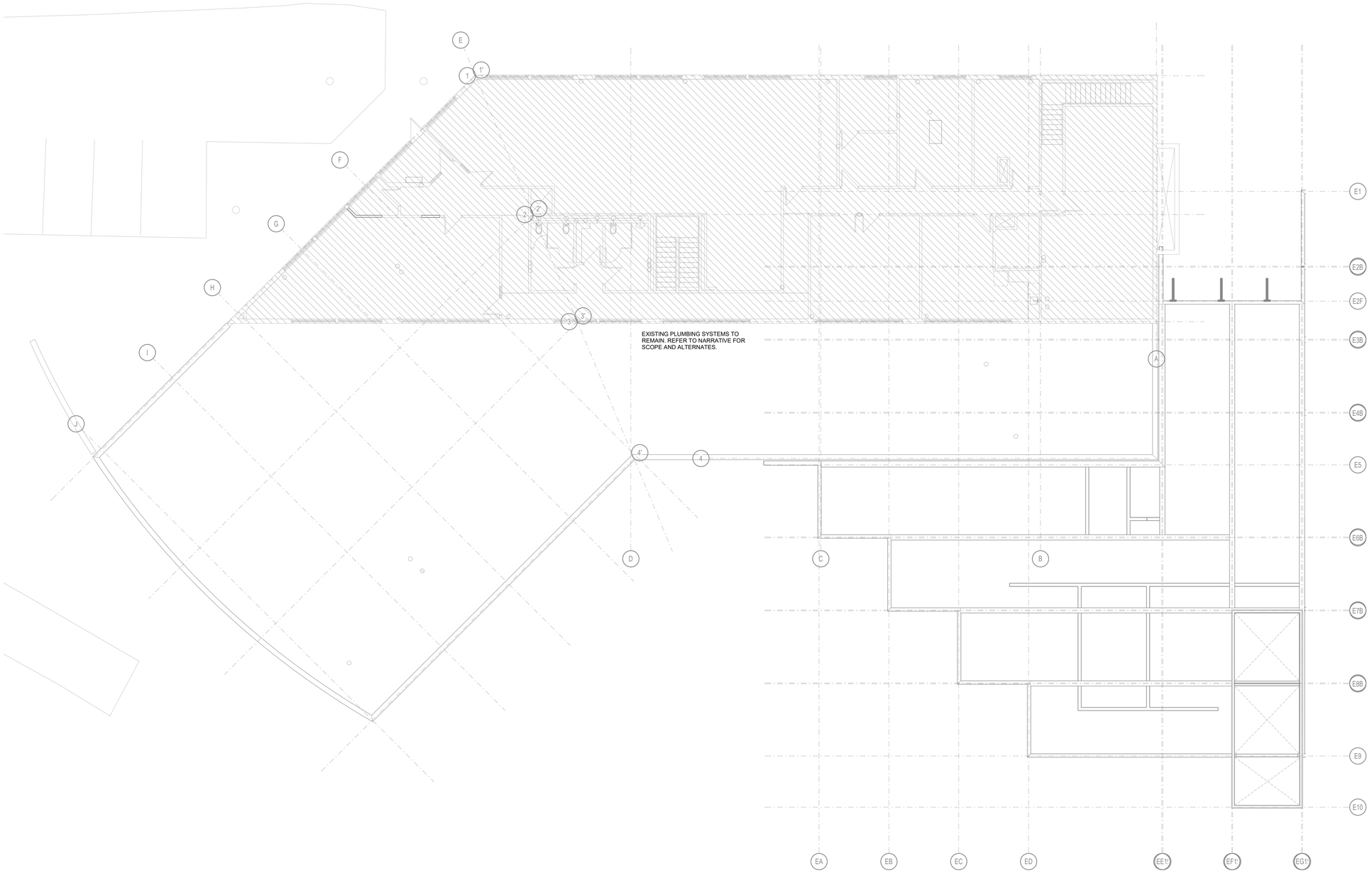
SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

FIRST FLOOR PLUMBING - AREA B

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P2.1B



1 SECOND FLOOR PLUMBING
1/8" = 1'-0"

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SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

SECOND FLOOR PLUMBING - AREA A

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P2.2A

MECHANICAL LEGEND

AFF	ABOVE FINISHED FLOOR
TYP	TYPICAL
NTS	NOT TO SCALE
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
	TAGGED NOTE
CD	CONDENSATE DRAIN LINE
RS/RL	REFRIGERANT PIPING
G	NATURAL GAS
HWS	HEATED HOT WATER SUPPLY
HWR	HEATED HOT WATER RETURN
DW	DOMESTIC WATER
	CHECK VALVE
	GATE VALVE
	GLOBE VALVE
	O S & Y VALVE (GATE)
	SAFETY OR RELIEF VALVE
	PRESSURE REDUCING VALVE (WATER)
	REDUCED PRESSURE BACKFLOW PREVENTER
	CONTROL VALVE (2-WAY)
FD	FIRE DAMPER AND DUCT ACCESS DOOR
FSD	FIRE/SMOKE DAMPER AND DUCT ACCESS DOOR
SD	SMOKE DAMPER AND DUCT ACCESS DOOR
	DUCT ELBOW WITH TURNING VANES
	VOLUME DAMPER (MANUAL)
M	OPPOSED BLADE DAMPER (MOTORIZED)
	FLEXIBLE DUCT
	PIPING TRANSITION
	DIRECTION OF FLOW (PIPING)
	PIPING/ROUND DUCTWORK CONTINUATION
	DUCTWORK CONTINUATION
P	PRESSURE GAUGE & COCK
	DIGITAL TEMPERATURE GAUGE
	MECHANICAL EQUIPMENT DESIGNATOR
VAV XYY	SUPPLY AIR VAV BOX TAG X = AHU, YY = IDENTIFIER
	ACCESS DOOR

AD	ACCESS DOOR IN CEILING
	MANUAL AIR VENT
A	AUTOMATIC AIR VENT
	PIPING ELBOW (TURNED UP/DOWN)
	PIPING TEE (TURNED UP/DOWN)
	FLEXIBLE CONNECTOR
	FLANGE
	UNION
D	DIELECTRIC UNION
PS	PRESSURE SWITCH
	BUTTERFLY VALVE
	PETE'S PLUG OR EQUIVALENT
	STRAINER
	BALANCING COCK
	BALL VALVE
	INDICATES AIR DISTRIBUTION DEVICE SPECIFICATION (L=LOUVER, T=TRANSFER GRILLE, S=SUPPLY DIFFUSER OR REGISTER, R=RETURN GRILLE OR REGISTER, E= EXHAUST GRILLE OR REGISTER)
20X12 SA	SUPPLY AIR DUCT DEMOLITION - INSIDE DIMENSION -20"HORZ.X12"VERT. (TURNED UP/DOWN)
20X12 RA	RETURN AIR DUCT DEMOLITION - INSIDE DIMENSION -(TURNED UP/DOWN)
20X12 EA	EXHAUST AIR DUCT DEMOLITION - INSIDE DIMENSION -(TURNED UP/DOWN)
20X12 OA	OUTSIDE AIR DUCT DEMOLITION - INSIDE DIMENSION -(TURNED UP/DOWN)
20X12 SA	SUPPLY AIR DUCT - INSIDE DIMENSION -20"HORZ.X12"VERT. (TURNED UP/DOWN)
20X12 RA	RETURN AIR DUCT - INSIDE DIMENSION -(TURNED UP/DOWN)
20X12 EA	EXHAUST AIR DUCT - INSIDE DIMENSION -(TURNED UP/DOWN)
20X12 OA	OUTSIDE AIR DUCT - INSIDE DIMENSION -(TURNED UP/DOWN)
14"Ø SA	SUPPLY AIR DUCT - ROUND 14" DIAMETER
AD	ACCESS DOOR IN BOTTOM OF DUCT
AD	ACCESS DOOR IN SIDE OF DUCT
T	DDC THERMOSTAT
Ts	TEMPERATURE SENSOR
DP	DIFFERENTIAL PRESSURE SENSOR
Ds	DUCT STATIC PRESSURE SENSOR
DS	DUCT SMOKE DETECTOR
FD	FIRE DAMPER
FSD	FIRE SMOKE DAMPER
F	FLOW METER
Ps	PRESSURE SENSOR
BD	BACK DRAFT DAMPER
Hs	DDC HUMIDISTAT

GENERAL NOTES (APPLICABLE TO ALL DRAWINGS)

1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE GENERAL AND SPECIAL CONDITIONS, "GENERAL CONDITIONS - MECHANICAL" AND TO ALL OTHER CONTRACT DOCUMENTS AS THEY APPLY TO THIS BRANCH OF WORK. ATTENTION IS ALSO DIRECTED TO ALL OTHER SECTIONS OF THE CONTRACT DOCUMENTS WHICH AFFECTS THE WORK AND WHICH ARE HEREBY MADE A PART OF THE WORK SPECIFIED.
2. ALL MANUFACTURERS, SUPPLIERS, FABRICATORS, CONTRACTORS, ETC. SUBMITTING PROPOSALS FOR ANY PART OF THE WORK, SERVICES, MATERIALS OR EQUIPMENT TO BE USED ON OR APPLIED TO THIS PROJECT ARE HEREBY DIRECTED TO FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS. IN CASE OF CONFLICTS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR CLARIFICATION AND FINAL DETERMINATION PRIOR TO THE BID.
3. THE WORK SHALL CONSIST OF FURNISHING ALL LABOR, EQUIPMENT, TRANSPORTATION, EXCAVATION & BACKFILLING, SUPPLIES, MATERIALS, APPURTENANCES AND SERVICES NECESSARY FOR THE SATISFACTORY INSTALLATION OF THE COMPLETE AND OPERATING SYSTEMS INDICATED OR SPECIFIED IN THE CONTRACT DOCUMENTS.
4. ANY MATERIALS, LABOR, EQUIPMENT OR SERVICES NOT MENTIONED SPECIFICALLY HEREIN WHICH MAY BE NECESSARY TO COMPLETE ANY PART OF THE SYSTEMS IN A SUBSTANTIAL MANNER, IN COMPLIANCE WITH THE REQUIREMENTS STATED, IMPLIED OR INTENDED IN THE PLANS AND SPECIFICATIONS, SHALL BE INCLUDED IN THE BID AS PART OF THE CONTRACT.
5. THE ENGINEER DOES NOT DEFINE THE SCOPE OF INDIVIDUAL TRADES, SUBCONTRACTORS, MATERIAL SUPPLIERS AND VENDORS. ANY SHEET NUMBERING OR SPECIFICATION NUMBERING SYSTEM USED WHICH IDENTIFIES DISCIPLINES IS SOLELY FOR THE ENGINEER'S CONVENIENCE AND IS NOT INTENDED TO DEFINE A SUBCONTRACTOR'S SCOPE OF WORK. INFORMATION REGARDING INDIVIDUAL TRADES, SUBCONTRACTORS, MATERIAL SUPPLIERS AND VENDORS MAY BE DETAILED, DESCRIBED AND INDICATED AT DIFFERENT LOCATIONS THROUGHOUT THE CONTRACT DOCUMENTS. NO CONSIDERATION WILL BE GIVEN TO REQUESTS FOR CHANGE ORDERS FOR FAILURE TO OBTAIN AND REVIEW THE COMPLETE SET OF CONTRACT DOCUMENTS WHEN PREPARING BIDS, PRICES AND QUOTATIONS. UNLESS STATED OTHERWISE, THE SUBDIVISION AND ASSIGNMENT OF WORK UNDER THE VARIOUS SECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR HOLDING THE PRIME CONTRACT.
6. IT IS THE INTENTION OF THE CONTRACT DOCUMENTS TO CALL FOR A COMPLETE AND OPERATIONAL SYSTEM, INCLUDING ALL COMPONENTS, ACCESSORIES, FINISH WORK, ETC NECESSARY FOR TROUBLE FREE OPERATION; TESTED AND READY FOR OPERATION. ANYTHING THAT MAY BE REQUIRED, IMPLIED, OR INFERRED BY THE CONTRACT DOCUMENTS SHALL BE PROVIDED AND INCLUDED AS PART OF THE BID.
7. ALL CONTRACTORS AND VENDORS PROVIDING A BID FOR THIS PROJECT SHALL REVIEW THE PLANS AND SPECIFICATIONS AND DETERMINE ANY MODIFICATIONS AND/OR ADJUSTMENTS NECESSARY RELATIVE TO THE PROPOSED EQUIPMENT AND MATERIALS WITH SPECIFIC MANUFACTURER'S INSTALLATION REQUIREMENTS. INCLUDE IN THE BID ANY NECESSARY METHODS, FEATURES, OPTIONS, ACCESSORIES, ETC. NECESSARY TO INSTALL THE PROPOSED EQUIPMENT AND MATERIALS, REGARDLESS OF WHETHER USED AS BASIS OF DESIGN OR BEING OFFERED AS A SUBSTITUTION, IN ACCORDANCE WITH THE SPECIFIC MANUFACTURER'S INSTALLATION REQUIREMENTS, WHETHER SPECIFICALLY DETAILED OR NOT, WITHIN THE PLANS AND SPECIFICATIONS.
8. THE BIDDER/PROPOSER SHALL COMPLETELY REVIEW THE CONTRACT DOCUMENTS. ANY INTERPRETATION AS TO DESIGN INTENT OR SCOPE SHALL BE PROVIDED BY THE ENGINEER. SHOULD AND INTERPRETATION BE REQUIRED, THE BIDDER/PROPOSER SHALL REQUEST A CLARIFICATION NOT LESS THAN TEN (10) DAYS PRIOR TO THE SUBMISSION OF THE PROPOSAL SO THAT THE CONDITION MAY BE CLARIFIED BY ADDENDUM. IN THE EVENT OF ANY CONFLICT, DISCREPANCY, OR INCONSISTENCY DEVELOPS; THE INTERPRETATION OF THE ENGINEER SHALL BE FINAL.
9. THE CONTRACTOR SHALL PROVIDE LAYOUT CONFIRMATION OF EQUIPMENT LOCATIONS TO VERIFY THAT ALL EQUIPMENT SUBMITTED WILL FIT IN THE PROPOSED SPACE AND HAVE ADEQUATE CLEARANCE FOR SERVICES. COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, ETC. WITH ALL MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).
10. EQUIPMENT AND MATERIALS SUBSTITUTIONS OR DEVIATIONS SHALL COMPLY WITH "GENERAL PROVISIONS - MECHANICAL PART 6." ANY VENDOR WISHING TO OBTAIN AN EQUIPMENT SUBSTITUTION SHALL REQUEST A CLARIFICATION NOT LESS THAN TEN (10) DAYS PRIOR TO THE SUBMISSION OF THE PROPOSAL SO THAT IT MAY BE CONSIDERED AND POTENTIALLY INCLUDED BY ADDENDUM. REQUESTS MADE AFTER THIS PERIOD WILL BE REJECTED.
11. IGNORANCE OF CODES, RULES, REGULATIONS, LAWS, ETC. SHALL NOT RENDER THE CONTRACTOR IRRESPONSIBLE FOR COMPLIANCE. THE CONTRACTOR SHALL ALSO BE VERSED IN ALL CODES, RULES, REGULATIONS, LAWS, ETC. PERTINENT TO THEIR PART OF THE WORK PRIOR TO SUBMISSION OF THE PROPOSAL
12. ALL WARRANTIES SHALL BEGIN STARTING AT THE SUBSTANTIAL COMPLETION DATE. ALL EQUIPMENT, MATERIAL AND LABOR WARRANTIES SHALL BE FURNISHED BY THE EQUIPMENT SUPPLIER/VENDOR.
13. WHEREVER WORK PENETRATES ROOFING, IT SHALL BE DONE IN A MANNER THAT WILL NOT DIMINISH OR VOID THE ROOFING GUARANTEE OR WARRANTY IN ANY WAY. COORDINATE ALL SUCH WORK WITH THE ROOFING INSTALLER.
14. DUCTWORK, PIPING AND EQUIPMENT SHALL BE KEPT CLEAN AT ALL TIMES. DUCTWORK STORED ON THE JOB SITE SHALL BE PLACED A MINIMUM OF 4" ABOVE THE FLOOR AND BE COMPLETELY COVERED IN PLASTIC. INSTALLED DUCTWORK SHALL BE PROTECTED WITH PLASTIC. DO NOT INSTALL THE DUCTWORK OR INSULATION (PIPE OR DUCT) IF THE BUILDING IS NOT "DRIED-IN". IF THIS IS REQUIRED, THE ENTIRE LENGTHS SHALL BE COVERED IN PLASTIC TO PROTECT. THE OWNER/ENGINEER SHALL PERIODICALLY INSPECT THAT THESE PROCEDURES ARE FOLLOWED. IF DEEMED UNACCEPTABLE, THE CONTRACTOR SHALL BE REQUIRED TO CLEAN THE DUCT SYSTEM UTILIZING A NADCA CERTIFIED CONTRACTOR.
15. THE PERMANENT SYSTEMS, WHEN INSTALLED, MAY BE USED FOR TEMPORARY SERVICES WITH THE CONSENT OF THE OWNER AND IN STRICT ACCORDANCE WITH "GENERAL PROVISIONS - MECHANICAL - TEMPORARY USE OF EQUIPMENT."
16. THE CONTRACTOR AND THEIR SUBCONTRACTORS SHALL INCLUDE IN THE BID TO PROVIDE EQUIPMENT AND CONTROLS STARTUP AND VERIFICATION FOR ALL MECHANICAL SYSTEMS SPECIFIED FOR THIS PROJECT AND IN STRICT ACCORDANCE WITH "GENERAL PROVISIONS - MECHANICAL - EQUIPMENT/CONTROLS STARTUP & VERIFICATION."
17. THE CONTRACTOR SHALL DETERMINE FROM THE CONTRACT DOCUMENTS, THE DATE OF COMPLETION FOR THE PROJECT AND INSURE THAT EQUIPMENT DELIVERY SCHEDULES CAN BE MET SO AS TO ALLOW THIS COMPLETION TO BE MET.
18. THROUGH COORDINATION WITH OTHER CONTRACTORS, VENDORS, AND SUPPLIERS ASSOCIATED WITH THIS PROJECT, THIS CONTRACTOR SHALL INSURE, 100% FUNCTIONAL, TESTED, INSPECTED AND APPROVED SYSTEMS. CLAIMS FOR ADDITIONAL COST OR CHANGE ORDERS WILL BE IMMEDIATELY REJECTED.
19. PRIOR TO ORDERING ANY MATERIALS OR ROUGH-IN OF ANY KIND, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL COORDINATION OF ALL ELECTRICAL REQUIREMENTS (I.E. VOLTAGE, PHASE, CIRCUIT BREAKER, WIRE SIZING, ETC.) WITH THE ELECTRICAL CONTRACTOR. THERE WILL BE NO CHANGE IN THE CONTRACT AMOUNT FOR ANY DISCREPANCIES.
20. ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC., MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSERS' DISCRETION.
21. DO NOT SCALE FROM DRAWINGS, PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM CONTRACTOR GENERATED DIMENSIONED DRAWINGS.
22. THE CONTRACTOR SHALL ENSURE PROPER COORDINATION BETWEEN ALL TRADES SUCH THAT CONDUITS, PIPING, DUCTWORK, ETC, DOES NOT BLOCK ACCESS TO VALVES, EQUIPMENT, DUCT ACCESS DOORS, ETC. ITEMS THAT HAVE BEEN INSTALLED WHERE ACCESS IS COMPROMISED SHALL BE RELOCATED AT THE CONTRACTOR'S EXPENSE.
23. THESE DRAWINGS ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE, HOWEVER LOCATIONS, DEPTHS, ELEVATIONS AND SIZES WERE TAKEN FROM DIFFERENT SOURCES AND ARE SUBJECT TO DEVIATION. THE CONTRACTOR SHALL ASSUME SOME DEVIATIONS AND INCLUDE OFFSETS, ADDITIONAL PIPING, ETC. AT THE TIME OF BID.
24. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR THEIR WORK. ALL CUTTING AND PATCHING SHALL MATCH ADJACENT SURFACES AND PERFORMED BY SKILLED WORKERS OF THE TRADE. REFER TO SPECIFICATION SECTION "SLEEVING, CUTTING, PATCHING, REPAIRING, ETC." AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
25. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES, EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING.
26. PRIOR TO PURCHASE OR FABRICATION OF PIPING OR DUCTWORK, THE CONTRACTOR SHALL COORDINATE INSTALLATION WITH ACTUAL CONDITIONS AND INSTALL ACCORDINGLY.
27. VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED AT NO ADDITIONAL COST UNDER THE ITEM WHETHER SHOWN OR NOT ON THE PLANS TO ALLOW ACCESS AND ADJUSTMENT.
28. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL WALL AND CEILING DEVICES. THIS SHALL INCLUDE PLUMBING FIXTURES, CEILING GRILLES AND DIFFUSERS, ETC.
29. CONTRACTOR SHALL CLEAN UP CONSTRUCTION DEBRIS AT ALL TIMES DURING CONSTRUCTION.
30. ALL CEILING MOUNTED DEVICES, FIXTURES, ETC. SHALL BE INSTALLED COMPLETELY FLUSH WITH FINISHED CEILING. DEVICES ARE TO BE FASTENED TO THE CEILING AT EACH CORNER WITH TWO TAMPER RESISTANT FASTENERS. CAREFULLY COORDINATE WITH DRYWALL CONTRACTOR TO ENSURE A FLUSH INSTALLATION. DRYWALL CONTRACTOR SHALL TAPE, MUD, AND SAND AS NEEDED, NO GAP BETWEEN DEVICE/FIXTURE AND CEILING WILL BE ACCEPTABLE. IF DEEMED THE ONLY SOLUTION BY THE ARCHITECT OR ENGINEER, THIS CONTRACTOR SHALL PROVIDE AN APPROVED SEALANT TO SEAL ANY SUCH GAPS THAT EXIST. A FINAL WALK-THROUGH SHALL BE SCHEDULED WITH THE OWNER TO APPROVE THE FINISHED CEILING CONDITION. THIS APPLIES TO PATIENT CARE AREAS, REFER TO THE ARCHITECTURAL SECURITY PLAN FOR EXACT AREAS. ALL SECURITY FASTENERS SHALL MATCH THE COLOR OF DEVICE.
31. REFER TO STRUCTURE AND ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ALL SEISMIC DESIGN CONDITIONS. CONTRACTOR SHALL PROVIDE ALL NECESSARY BRACING, SUPPORTS, ETC. FOR THIS LOCATION.
32. DO NOT ROUTE DUCTWORK OR PIPING THRU COMMUNICATION ROOMS FOR SYSTEMS THAT DO NOT SERVE COMMUNICATION ROOMS.
33. THE CONTRACTOR SHALL FULLY COMPLY WITH THE SUPPLEMENTS AND AMENDMENTS TO ALL OF THE STATE/LOCAL CODES.
34. ALL FASTENERS IN PATIENT-ACCESSIBLE AREAS MUST BE TORX HEAD WITH CENTER PIN REJECT.

DELEGATED SEISMIC/WIND LOAD RESTRAINT DESIGN:

1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE SPECIFICATION TITLED MECHANICAL VIBRATION CONTROLS AND SEISMIC AND WIND LOAD RESTRAINTS.

2. DELEGATED DESIGN: A PROFESSIONAL ENGINEER SHALL DESIGN SEISMIC RESTRAINTS REQUIRED FOR THIS PROJECT WHO IS LEGALLY QUALIFIED TO PRACTICE IN THE JURISDICTION WHERE THE PROJECT IS LOCATED AND WHO HAS A MINIMUM OF 5 YEARS EXPERIENCE IN PROVIDING ENGINEERING SERVICES OF THE KIND INDICATED. ENGINEERING SERVICES ARE DEFINED AS THOSE PERFORMED FOR INSTALLATIONS OF VIBRATION ISOLATION BASES AND SEISMIC RESTRAINTS THAT ARE SIMILAR TO THOSE INDICATED FOR THIS PROJECT IN MATERIAL, DESIGN, AND EXTENT.

3. RESTRAINT SUBMITTALS:

   3.1. SHOP DRAWINGS: SHOW DESIGNS AND CALCULATIONS, PREPARED AND STAMPED BY A LICENSED PROFESSIONAL ENGINEER, FOR THE FOLLOWING:

      3.1.1. DESIGN CALCULATIONS: CALCULATIONS FOR DESIGN AND SELECTION OF RESTRAINTS FOR EQUIPMENT, DUCT AND PIPING SYSTEMS (INCLUDING RISERS), STAMPED BY A LICENSED PROFESSIONAL ENGINEER.

      3.1.2. ANALYSIS MUST INCLUDE CALCULATED DEAD LOADS, SEISMIC LOADS, WIND LOADS AND CAPACITY OF MATERIALS UTILIZED FOR CONNECTIONS TO EQUIPMENT AND STRUCTURE. ANALYSIS MUST DETAIL ANCHORING METHODS, BOLT DIAMETER, EMBEDMENT AND/ OR WELDED LENGTH. ALL SEISMIC RESTRAINT DEVICES SHALL BE DESIGNED TO ACCEPT, WITHOUT FAILURE, THE FORCES DETAILED IN LISTED BUILDING CODES ACTING THROUGH THE EQUIPMENT CENTER OF GRAVITY. OVERTURNING MOMENTS MAY EXCEED FORCES AT GROUND LEVEL.

      3.1.3. RESTRAINT DETAILS: DETAIL FABRICATION AND ATTACHMENT OF RESTRAINTS AND SNUBBERS.

      3.1.4. CONCRETE PAD DETAILS: SHOW REQUIRED CONCRETE PAD SIZE AND LOCATION FOR EQUIPMENT. SHOW LOCATIONS OF REQUIRED PAD ANCHORS AND STUD WEDGE ANCHORS.

      3.1.5. WHERE WALL, FLOORS, SLABS, OR SUPPLEMENTARY STEEL WORK ARE USED FOR SEISMIC RESTRAINT LOCATIONS, DETAILS OF ACCEPTABLE ATTACHMENT METHODS FOR DUCTS, CONDUIT AND PIPE MUST BE INCLUDED AND APPROVED BEFORE THE CONDITION IS ACCEPTED FOR INSTALLATION. RESTRAINT MANUFACTURERS' SUBMITTALS MUST INCLUDE SPACING, STATIC LOADS AND SEISMIC LOADS AT ALL ATTACHMENT AND SUPPORT POINTS.

4. DESIGNATED SEISMIC SYSTEM VERIFICATION:

   4.1. PROVIDE SEISMIC SYSTEM SPECIAL INSPECTION SERVICES IN ACCORDANCE WITH THE MECHANICAL CODE.

5. SEISMIC DESIGN CATEGORY - A

OUTDOOR DESIGN CONDITIONS

LOCATION: AUSTIN, TEXAS

SUMMER DRY BULB:	100.3°F
SUMMER WET BULB: (ASHRAE 0.4% COOLING)	78.7°F
WINTER DRY BULB: (ASHRAE 99% HEATING)	29.9°F

INDOOR DESIGN CONDITIONS

COOLING DRY BULB:	74°F
COOLING RELATIVE HUMIDITY:	50%
HEATING DRY BULB:	68°F

SHEET LIST

Sheet Number	Sheet Name
E0.8	MEDGAS GEN NOTES
F1.0A	FIRST FLOOR FIRE PROTECTION - AREA A
F1.0B	FIRST FLOOR FIRE PROTECTION AREA B
M1.0	COVER SHEET
M1.1	FIRST FLOOR ZONING
M1.2	SECOND FLOOR ZONING
M2.1A	FIRST FLOOR AIR DISTRIBUTION - AREA A
M2.1B	FIRST FLOOR AIR DISTRIBUTION - AREA B
M2.2A	SECOND FLOOR AIR DISTRIBUTION - AREA A
M3.0	MECHANICAL ROOF PLAN
M4.0	DETAILS
M4.1	DETAILS
MD2.2	FIRST FLOOR - AIR DISTRIBUTION DEMO
MD2.3	SECOND FLOOR - AIR DISTRIBUTION DEMO
MG1.0	MEDGAS LEGEND AND DETALIS
MG2.1A	FIRST FLOOR MEDGAS - AREA A
MG2.1B	FIRST FLOOR MEDGAS - AREA B
MG3.0	MEDGAS DETAILS

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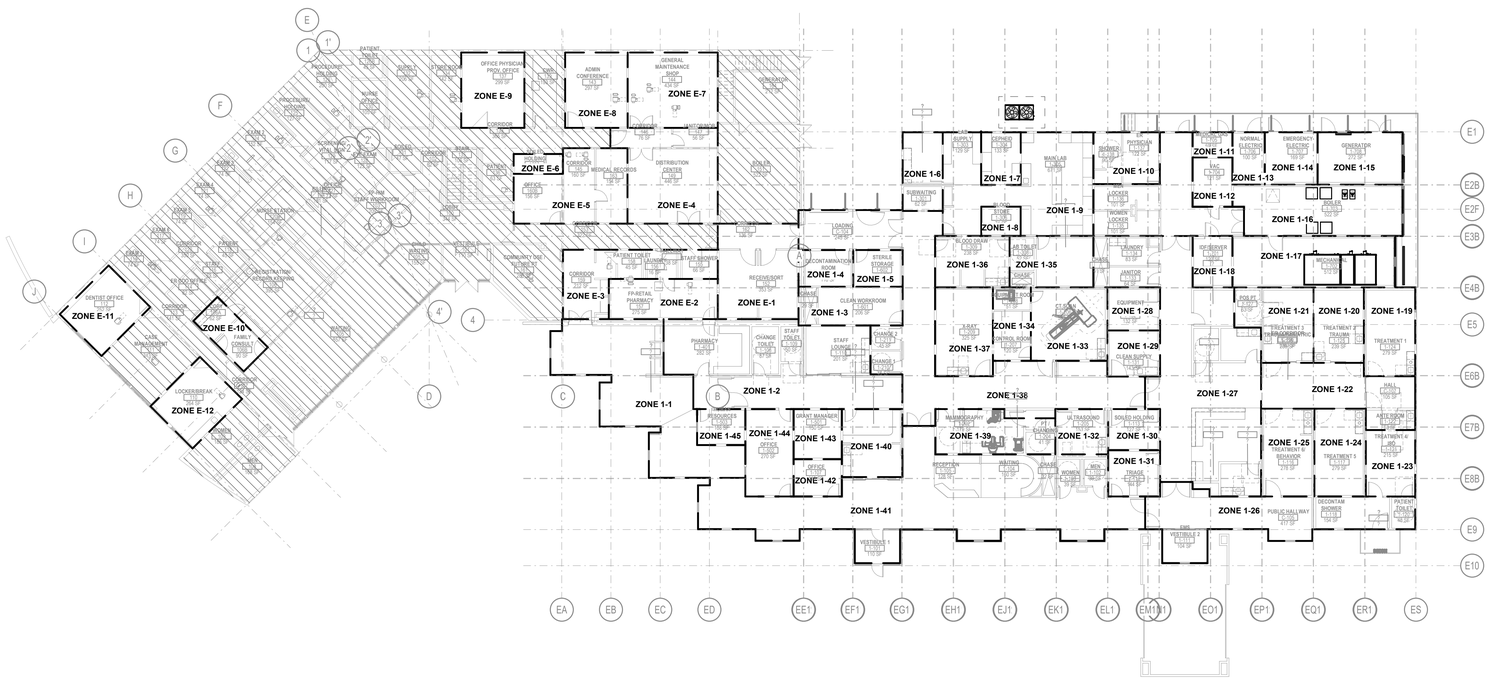
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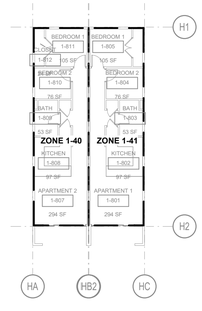
SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

COVER SHEET
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

M1.0





GENERAL NOTES:

A. DDC THERMOSTAT: (T) PROVIDE DDC THERMOSTAT IN LOACTION SHOWN.

B. DDC THEMPERATURE SENSOR: (Ts) SENSOR SHALL BE "BAPI PLAIN STAINLESS STEEL WALL PLATE OR EQUAL. SENSOR SHALL BE MOUNTED BEHIND PLATE. PLATE SHALL INCLUDE HOSPITAL GRADE CLOSED CELL FOAM INSULATION TO ISOLATIE SENSOR FROM WALL/JUNCTION BOX. PROVIDE WITH TEFLON LEAD WITES AND DOUBLE ENCAPSULATED SENSORS TO CREATE A WATER TIGHT PACKAGE. PLATES SHALL BE PROVIDED WITH SE3CURITY/TAMPER PROOF SCREWS AND BITS.

C. DDC THEMPERATURE SENSOR(AVERAGING): (TSa) SENSOR SHALL BE "BAPI PLAIN STAINLESS STEEL WALL PLATE OR EQUAL. SENSOR SHALL BE MOUNTED BEHIND PLATE. PLATE SHALL INCLUDE HOSPITAL GRADE CLOSED CELL FOAM INSULATION TO ISOLATIE SENSOR FROM WALL/JUNCTION BOX. PROVIDE WITH TEFLON LEAD WITES AND DOUBLE ENCAPSULATED SENSORS TO CREATE A WATER TIGHT PACKAGE. PLATES SHALL BE PROVIDED WITH SE3CURITY/TAMPER PROOF SCREWS AND BITS.

D. DDC BUILDING PRESSURE SENSOR: (Ps) PROVIDE A BUILDING PRESSURE SENSOR CONNECTED TO ASSOCIATED RTU IN THIS LOCATION. ROOM PRESSURE SENSOR TO BE STAINLESS STEEL PLATE TYPE, DWYER INSTRUMENTS MODEL A-417A, OR SIMILAR.

E. DDC HUMIDISTAT: (Hs) PROVIDE A HUMIDISTAT FOR ASSOCIATED RTU IN THIS LOCATION. ROOM HUNDIDITY SENSOR TO BE STAINLESS STEEL PLATE TYPE, KELE HS20K, OR SIMILAR LOCATE SENSOR 10'0" ABOVE FINISHED FLOOR.

F. [DDCXFR] VAV BOX CONTROL, DDC CONTROL TRANSFORMERS, ARE TO BE MOUNTED ON THE WALL ABOVE THE DOOR IN THE ON-UNIT ELECTRIC ROOMS.

G. [E-STOP] TO SHUT-OFF ROOFTOP UNIT SERVING SPACE. PROVIDE A SIGN STATING "E-STOP" AND ASSOCIATD ROOFTOP NUMBER.

1 Mechanical Zoning Plan - Level 1
M1.1 — 1/16" = 1'-0"

TRUE NORTH | PLAN NORTH

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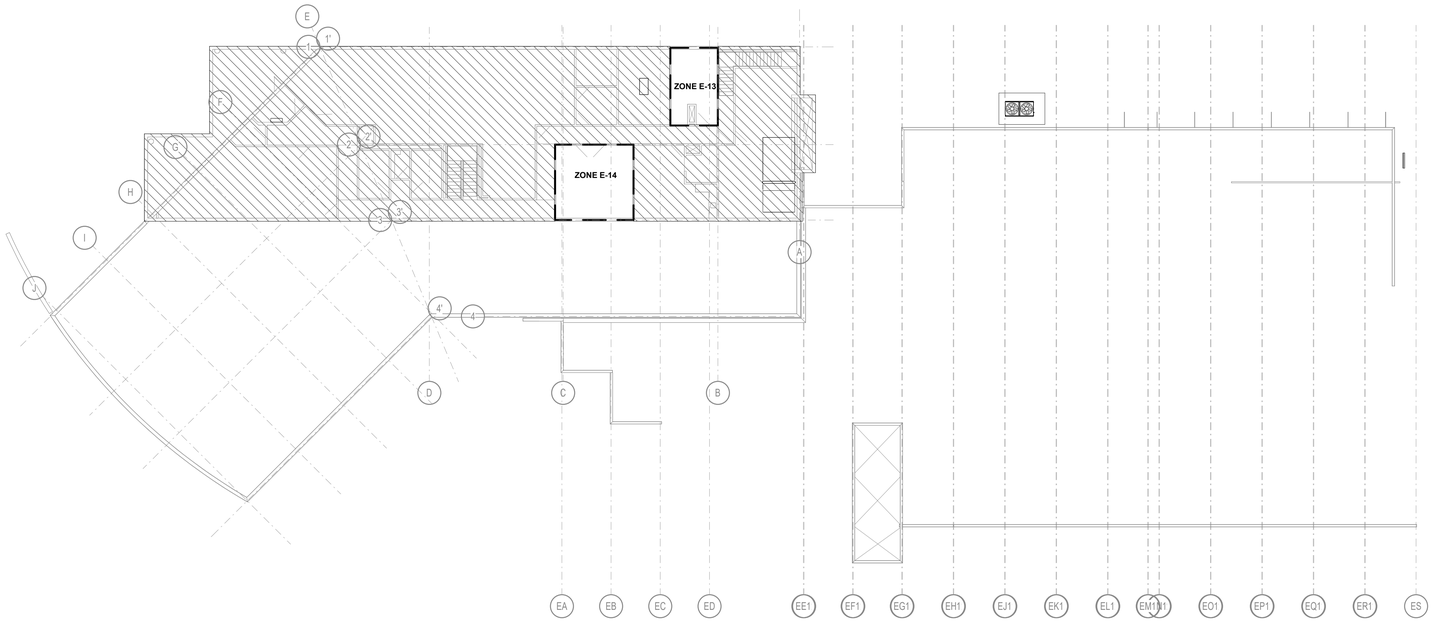
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FIRST FLOOR ZONING

IFHS EXPANSION & RENOVATION
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UNALASKA, AK

17 FEBRUARY 2025
IFH2402

M1.1



1 Mechanical Zoning Plan - Level 2
M1.2
1/16" = 1'-0"
TRUE NORTH
PLAN NORTH

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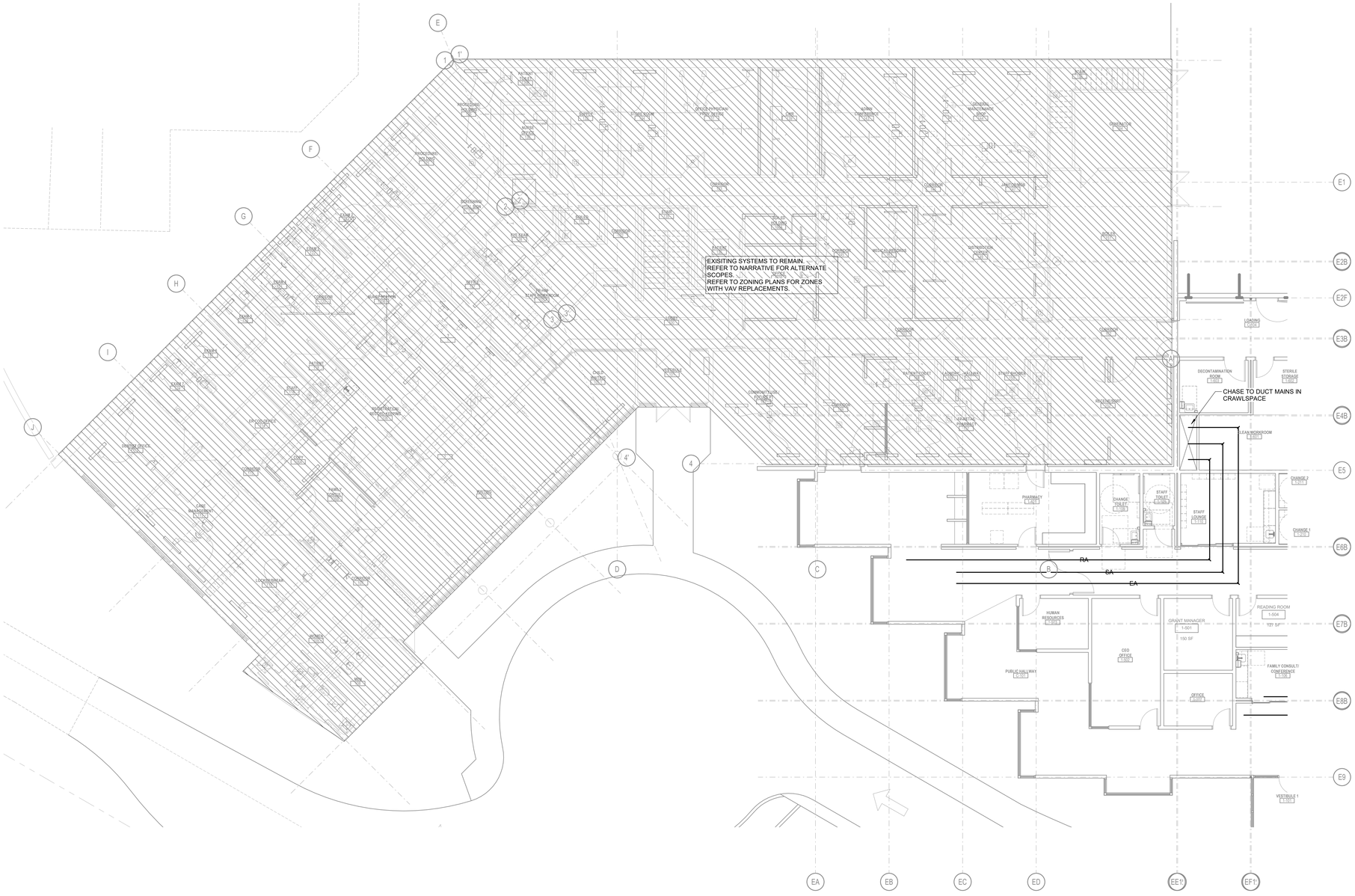
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SECOND FLOOR ZONING

IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
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M1.2



1 FIRST FLOOR AIR DISTRIBUTION - AREA A
M2.1A
1/8" = 1'-0"
TRUE NORTH
PLAN NORTH

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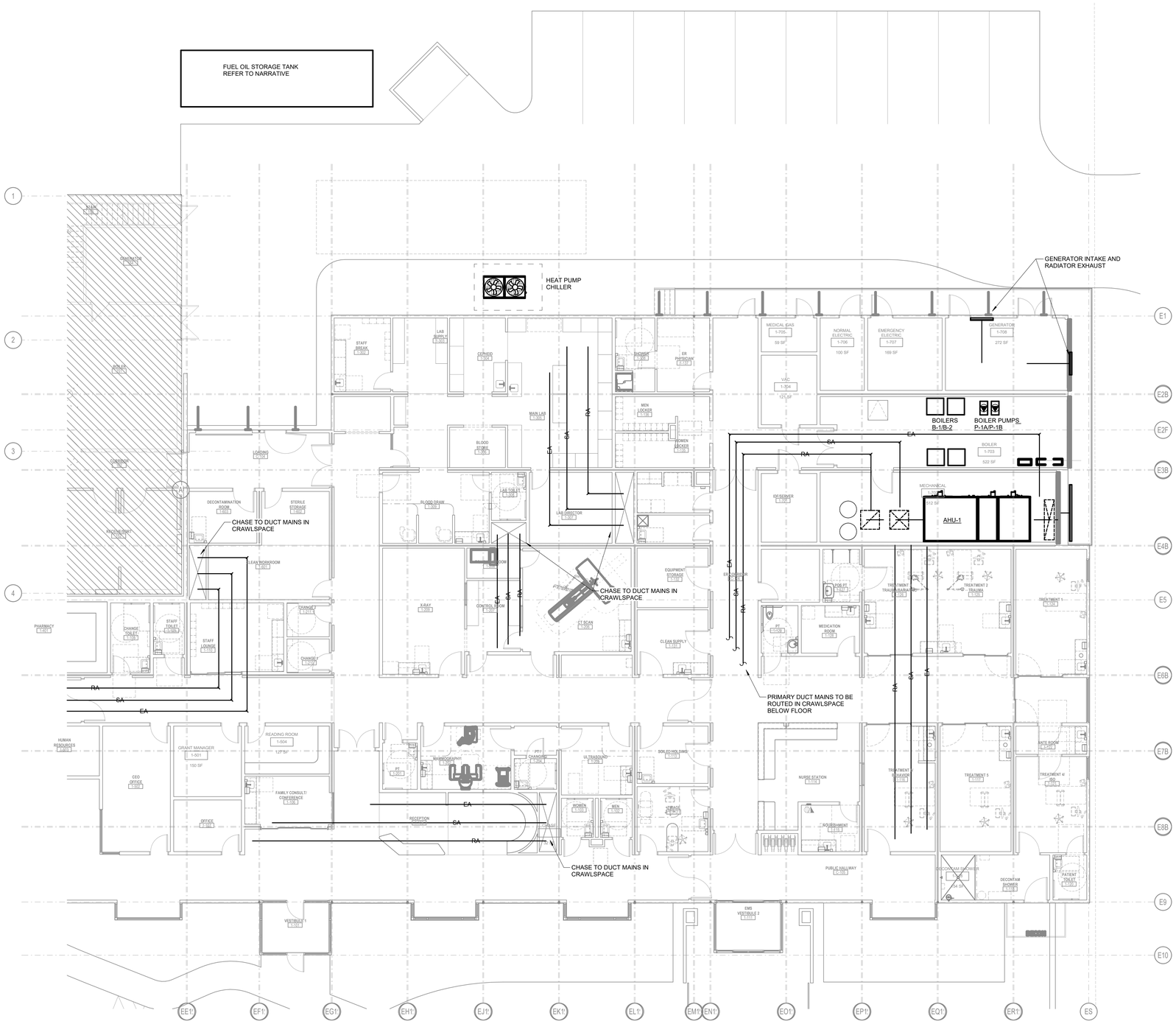
SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

FIRST FLOOR AIR DISTRIBUTION - AREA A

IFHS EXPANSION & RENOVATION
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UNALASKA, AK

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M2.1A



1 FIRST FLOOR AIR DISTRIBUTION - AREA B
M2.1B
1/8" = 1'-0"
TRUE NORTH
PLAN NORTH

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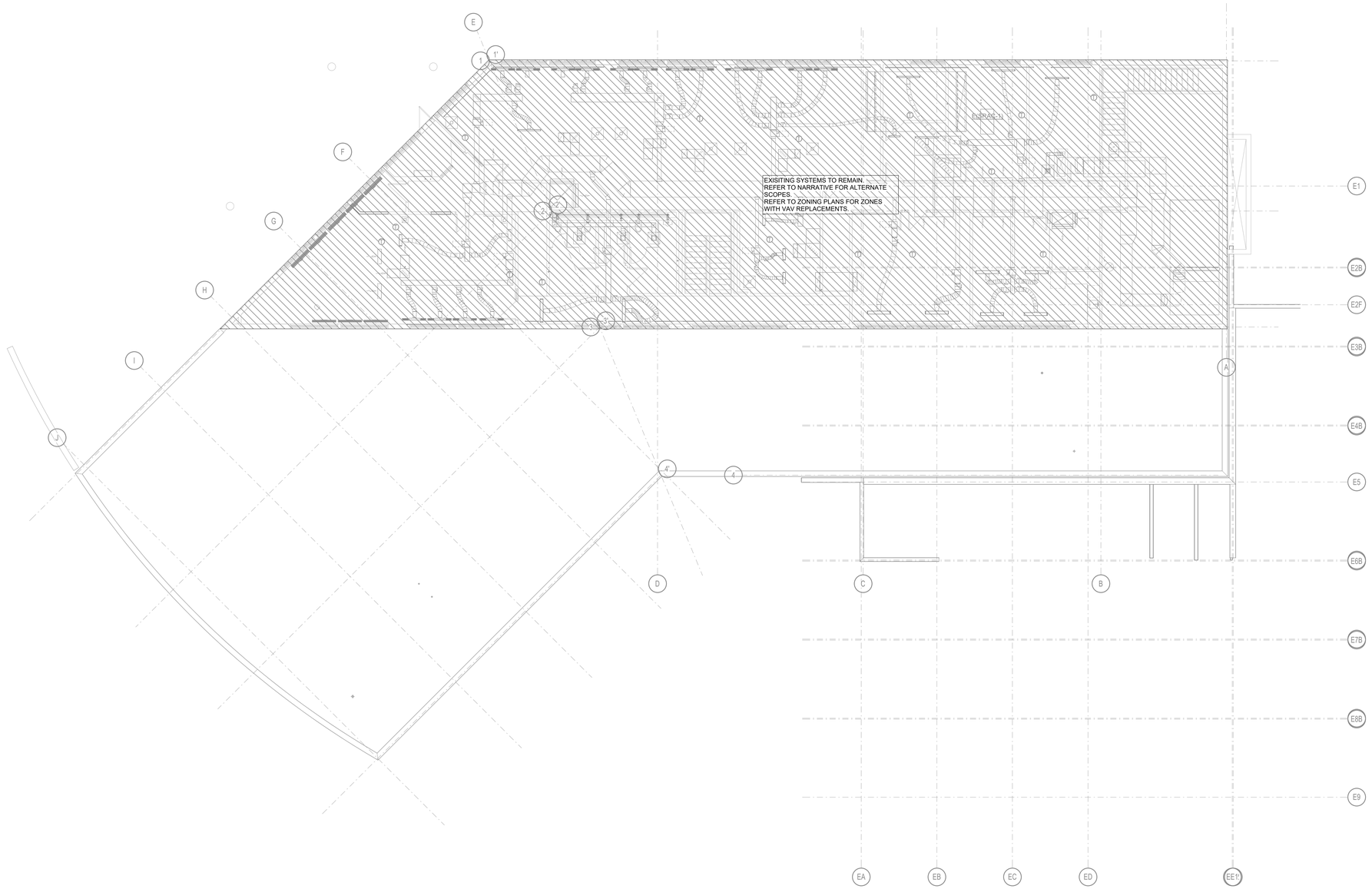
SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

FIRST FLOOR AIR DISTRIBUTION - AREA B

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UNALASKA, AK

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M2.1B



1 Second Floor Plan - Air Distribution
M2.2A
1/8" = 1'-0"
TRUE NORTH
PLAN NORTH

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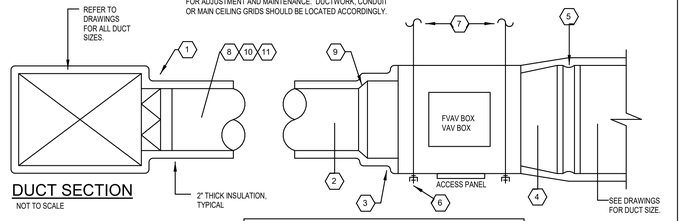
SECOND FLOOR AIR DISTRIBUTION - AREA A

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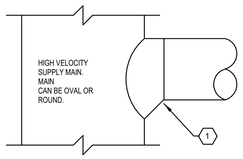
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M2.2A

NOTE:
DAMPER AND AIR FLOW CONTROLS MUST BE ACCESSIBLE FOR ADJUSTMENT AND MAINTENANCE. DUCTWORK, CONDUIT OR MAIN CEILING GRIDS SHOULD BE LOCATED ACCORDINGLY.



DUCT SECTION
NOT TO SCALE



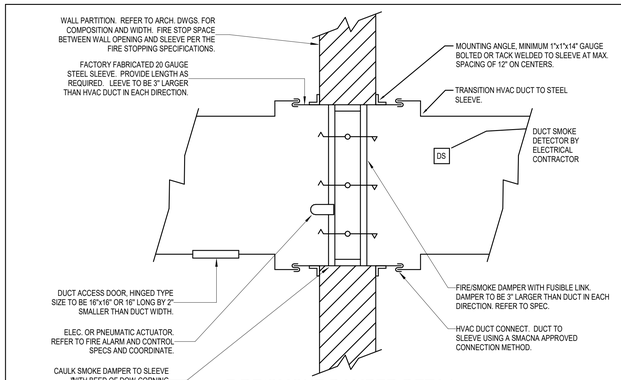
PLAN VIEW
NOT TO SCALE

TAG NOTES: (X)

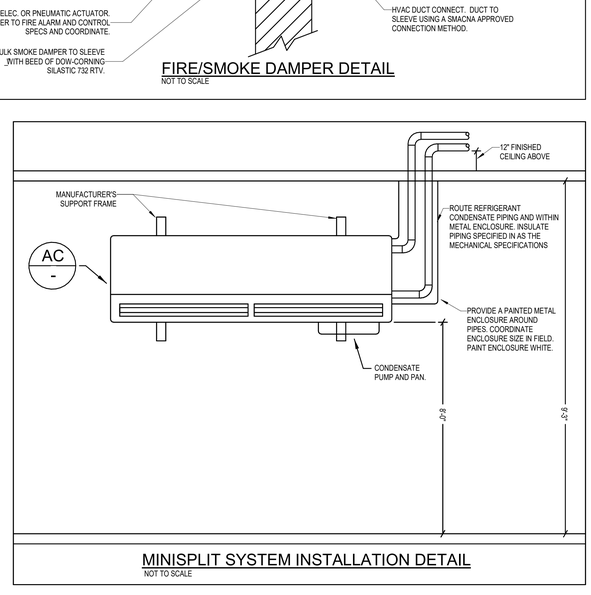
1. HIGH EFFICIENCY DUCT TAKE-OFF - EQUAL TO UNIT INLET SIZE. COMBINATION TEE, EASTERN SHEET METAL - MODEL CB OR EQUAL.
2. MAINTAIN A MINIMUM OF THREE DUCT DIAMETERS BETWEEN TAKE-OFF AND VAV UNIT. NO FLEXIBLE DUCTWORK ALLOWED ON THE INLET SIDE OF THE UNIT.
3. MAINTAIN INSULATION TO EDGE OF VAV UNIT.
4. PROVIDE TRANSITION BETWEEN VAV UNIT AND DUCT.
5. PROVIDE FLEXIBLE CONNECTION BETWEEN FVAV UNIT AND DUCT.
6. UNI-STRUT WITH SOLATION PAD.
7. SUPPORT UNIT FROM STRUCTURE.
8. REFER TO PLANS FOR DUCTWORK SIZE.
9. TRANSITION DUCTWORK TO VAV BOX INLET SIZE.
10. HIGH VELOCITY RIGID ROUND SPIRAL OR RECTANGULAR DUCT.
11. SUPPLY DUCTWORK SHALL NOT MAKE ANY SEVERE TRANSITONS OR TURN WITHIN 3 FEET OF TERMINAL UNIT.

FVAV & VAV BRANCH DUCT CONNECTION DETAIL
NOT TO SCALE

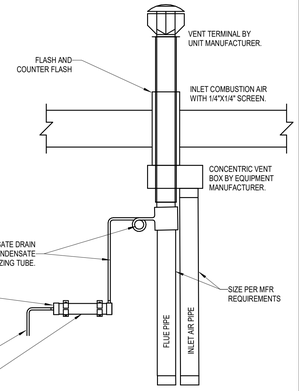
IN PATIENT CARE AREAS WITH DRYWALL CEILINGS, PROVIDE AND INSTALL A "SECURITY ARCHITECTURAL DOOR" PER SHEETMETAL ACCESS SPECIFICATIONS TO ACCESS DAMPER.



FIRE/SMOKE DAMPER DETAIL
NOT TO SCALE

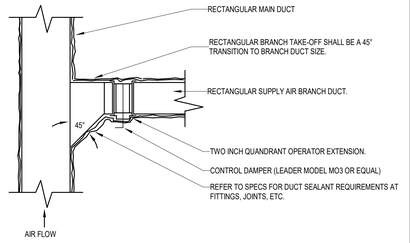


MINISPLIT SYSTEM INSTALLATION DETAIL
NOT TO SCALE

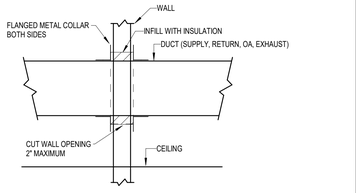


NOTES
1. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR COMPLETE CONCENTRIC VENT FABRICATION DETAILS AND INSTRUCTIONS.
2. ALL COMBUSTION AIR AND FLUE PIPE SHALL BE PER MANUFACTURERS REQUIREMENTS.
3. SEAL ALL JOINTS WITH SEALANT.

FLUE/INTAKE CONCENTRIC VENT DETAIL
NOT TO SCALE (WATER HEATERS)

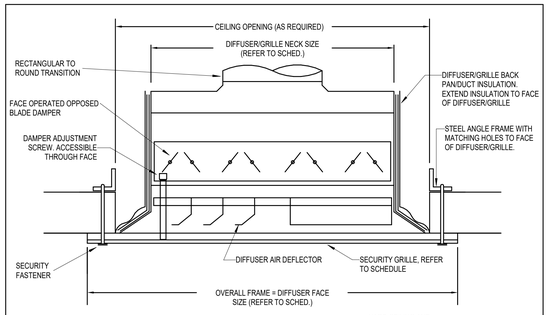


TYPICAL RECTANGULAR BRANCH DUCT TAKE-OFF DETAIL
NOT TO SCALE



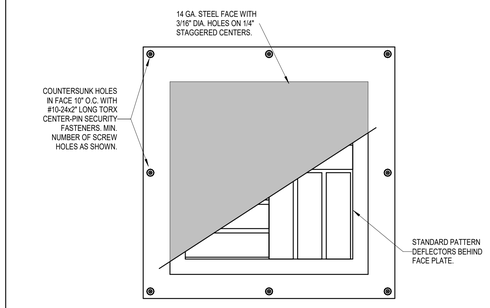
DUCT PENETRATION THROUGH WALL DETAIL
NOT TO SCALE

NOTE:
ALL WALL PENETRATIONS SHALL BE SEALED.

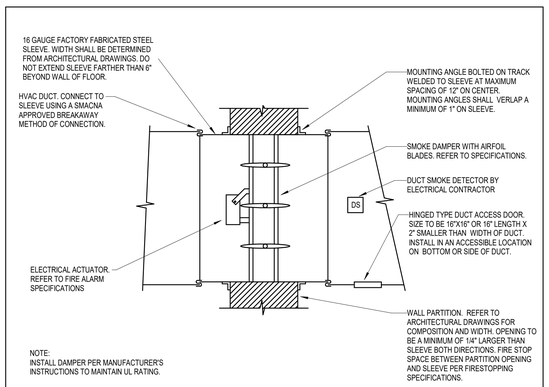


NOTES:
1. INSTALL TIGHT TO SURFACE WITH NO GAPS. RE-SURFACE OPENING AS NECESSARY (CAULK NOT ALLOWED TO FILL GAPS).
2. PULL GRILLE TIGHT TO DRYWALL BEFORE SECURING SLEEVE.
3. INSULATE ENTIRE GRILLE, SLEEVE, CAP, ETC.
4. DAMPER SHALL BE ACCESSIBLE THROUGH FACE PLATE WITH SCREW DRIVER.
5. DIFFUSER/GRILLE SHALL BE ABLE TO BE REMOVED AS AN ACCESS POINT.

SECURITY DIFFUSER/GRILLE MOUNTING DETAIL
NOT TO SCALE



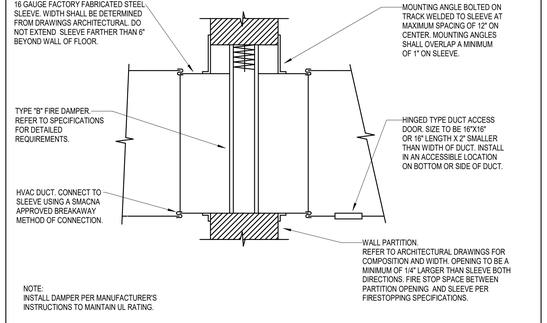
SECURITY DIFFUSER/GRILLE FACE DETAIL
NOT TO SCALE



NOTE:
INSTALL DAMPER PER MANUFACTURER'S INSTRUCTIONS TO MAINTAIN UL RATING.

SMOKE DAMPER DETAIL
NOT TO SCALE

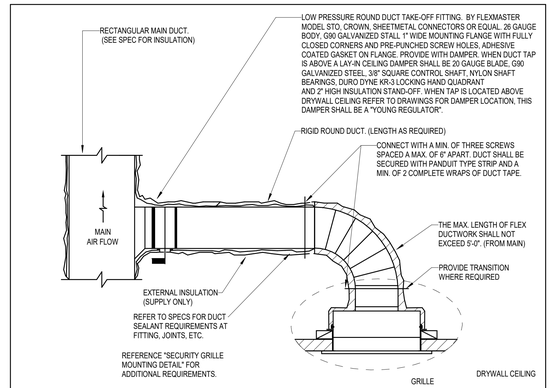
IN PATIENT CARE AREAS WITH DRYWALL CEILINGS, PROVIDE AND INSTALL A "SECURITY ARCHITECTURAL ACCESS DOOR" PER SHEETMETAL SPECIFICATIONS TO ACCESS DAMPER.



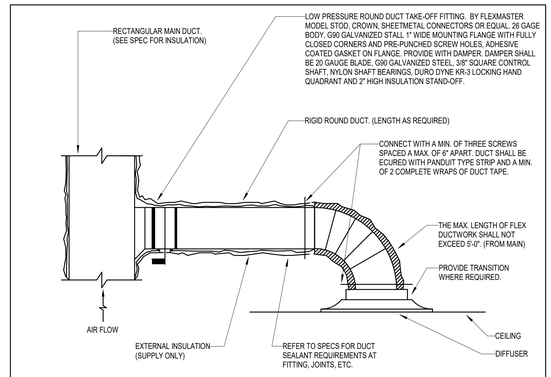
NOTE:
INSTALL DAMPER PER MANUFACTURER'S INSTRUCTIONS TO MAINTAIN UL RATING.

FIRE DAMPER DETAIL
NOT TO SCALE

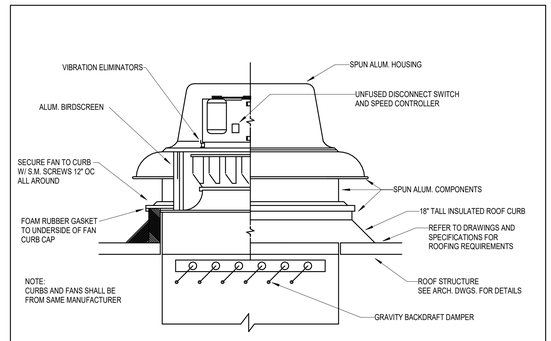
IN PATIENT CARE AREAS WITH DRYWALL CEILINGS, PROVIDE AND INSTALL A "SECURITY ARCHITECTURAL ACCESS DOOR" PER SHEETMETAL SPECIFICATIONS TO ACCESS DAMPER.



SECURITY AREA ROUND SUPPLY, RETURN, & EXHAUST BRANCH DUCT DETAIL
NOT TO SCALE (FOR SECURE AREAS 3B, 4 & 5. REFER TO ARCHITECTURAL PLANS)



TYPICAL ROUND SUPPLY, RETURN, & EXHAUST BRANCH DUCT DETAIL
NOT TO SCALE



ROOF MOUNTED CENTRIFUGAL EXHAUST FAN DETAIL
NOT TO SCALE

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Iliuliuk Family and Health Services

SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

DETAILS
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

M4.0

GENERAL NOTES (LEGEND):

A. EACH CONTRACTOR, PROPOSER, SUPPLIER AND/OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS TO AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.

B. ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS.

C. WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES. INCLUDING BUT NOT LIMITED TO NFPA 70 (NEC), NFPA 72, INTERNATIONAL BUILDING CODES, ETC. IN ADDITION, OBSERVE ALL APPLICABLE RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT FROM CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.

D. CONTRACTOR SHALL FOLLOW SEISMIC RESTRAINT AND DESIGN REQUIREMENTS CONTAINED IN LATEST ADOPTED STATE AND INTERNATIONAL BUILDING CODES, WITH ALL AMENDMENTS AS ADOPTED BY THE CURRENT LEGISLATION. REFER TO ELECTRICAL AND STRUCTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

E. ADVISE THE ENGINEER OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.

F. WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING.

G. DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.

H. ALL ELECTRICAL COMPONENTS OR EQUIPMENT SHALL BE LISTED AND LABELED BY UNDERWRITER'S LABORATORIES OR OTHER APPROVED LISTING AGENCY. APPROVAL AND LABELING OF INDIVIDUAL COMPONENTS ON AN ASSEMBLY IS NOT ACCEPTABLE AS MEETING THIS REQUIREMENT, UNLESS WAIVED BY THE ENGINEER IN WRITING.

I. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRICAL CODES, NATIONAL FIRE CODES OF THE NATIONAL FIRE PROTECTION ASSOCIATION, THE REQUIREMENTS OF LOCAL UTILITY COMPANIES, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL AGENCIES OR DEPARTMENTS HAVING JURISDICTION. IF ANY CONFLICTS OR DISCREPANCIES OCCUR THE MOST STRINGENT SHALL APPLY.

J. MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO CENTER OF DEVICE UNO. MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE UNO. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE AFFECTING INSTALLATION. REFER ALSO TO ARCHITECTURAL INTERIOR AND EXTERIOR ELEVATIONS, CEILING HEIGHTS AND OTHER DETAILS OF THESE DOCUMENTS, AS APPLICABLE.

K. DO NOT SCALE FROM DRAWINGS, AS PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.

L. REFER TO ARCHITECTURAL WALL ELEVATIONS (WHERE GIVEN) FOR HEIGHTS AND MOUNTING RELATIONSHIP OF OUTLETS AND FURNITURE, CASEWORK, AND/OR EQUIPMENT. ADDITIONAL OUTLETS MAY BE SHOWN ON ARCHITECTURAL DRAWINGS AND SHALL BE INCLUDED IN THE CONTRACT.

M. FLUSH OR PEDESTAL TYPE FLOOR OUTLETS/BOXES, AS INDICATED ON PLAN, SHALL BE LOCATED BY DIMENSIONS PROVIDED BY THE ARCHITECT, UNLESS OTHERWISE SHOWN ON PLANS. IF IN DOUBT, CONTACT THE ENGINEER PRIOR TO ROUGHING-IN ANY WORK.

N. INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEER PRIOR TO INSTALLATION FOR CLARIFICATION.

O. THE CONSTRUCTION MANAGER/ GENERAL CONTRACTOR, OR WHOMEVER HOLDS THE PRIME CONTRACT(S) FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC. FOR OR UNTIMELY WORK ON THE PART OF ANY SUBCONTRACTOR SHALL BE RESOLVED BY THE PARTY WHO ENGAGED THEM ON THIS PROJECT.

P. THE PURPOSE AND INTENT OF ALL OF THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, LIKE-NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.

Q. ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT MEETING THIS CRITERION SHALL BE REMOVED AND REINSTALLED SATISFACTORILY. FINAL DETERMINATION OF THE ACCEPTABILITY OF THE QUALITY OF WORK RESIDES WITH THE ENGINEER

R. ALL WORK, MATERIALS, EQUIPMENT, ETC. SHALL BE FULLY GUARANTEED FOR ONE FULL CALENDAR YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION AS DOCUMENTED BY THE ENGINEER, UNLESS LONGER WARRANTY PERIODS FOR EQUIPMENT ARE SPECIFIED.

S. ALL WORK SHALL BE CONCEALED UNLESS SPECIFICALLY INDICATED TO BE EXPOSED, OR REQUIRED TO BE EXPOSED. IF IN DOUBT, CONTACT THE ENGINEER FOR CLARIFICATIONS PRIOR TO INSTALLING ANY SUCH WORK.

T. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL EQUIPMENT AND/OR MATERIALS WITHIN OCCUPIED SPACES OR EXPOSED TO VIEW ON THE BUILDING EXTERIOR SHALL BE PRIMED AND FINISHED SO AS TO COMPLEMENT ADJACENT SURFACE, UNLESS OTHERWISE NOTED. COORDINATE WORK AND COLORS WITH ARCHITECT.

U. WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATION IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANYWAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING MANUFACTURER AND ARCHITECT.

V. CEILING-MOUNTED ELECTRICAL DEVICES SHALL BE CENTERED IN 2'X2' CEILING TILE AND INSTALLED CENTERED ON 2' DIMENSION OF 2'X4' TILE AND ON CENTERLINE OR A QUARTER POINT ON 4' DIMENSION.

W. PROVIDE DETAILED SHOP DRAWINGS TO ENGINEER PRIOR TO PURCHASING OR INSTALLING ANY EQUIPMENT DEVIATIONS IN SIZES, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEER OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.

X. WHERE FIRE-RATED CEILING ASSEMBLIES ARE NOTED, PROVIDE UL-LISTED FIRE-RATED GYPSUM BOARD OR PRE-MANUFACTURED ENCLOSURES ABOVE LUMINAIRES, CEILING DEVICES, ETC. IN OR ON CEILING, AS REQUIRED TO MAINTAIN CEILING RATINGS.

Y. DO NOT RECESS PANELBOARD TUBS OR OTHER FLUSH-MOUNTED EQUIPMENT IN WALLS THAT HAVE A FIRE RATING. NO INSTALLATION SHALL DIMINISH OR VOID FIRE RESISTIVE RATINGS IN ANYWAY.

Z. COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, GAS OUTLETS, ETC. WITH ALL CASEWORK, KITCHEN EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).

AA. ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC. MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSER'S DISCRETION.

BB. INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC. IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING OR THE COLLECTION OF CONDENSATION THEREON. IF IN DOUBT, CONTACT THE ENGINEER.

CC. ALL WIRING SYSTEMS SHALL BE INSTALLED WITH A MINIMUM OF SPLICES. CONDUCTORS, WHETHER SINGLE OR MULTI-PAIR, SHALL BE INSTALLED CONTINUOUS INSOFAR AS POSSIBLE FROM TERMINAL POINT TO TERMINAL POINT.

DD. NO CONDUIT, SUPPORTS, ETC. SHALL BE RUN THROUGH ACCESS CLEARANCES OF EQUIPMENT BY OTHER TRADES (I.E. VAV BOXES). COORDINATE WITH ALL TRADES PRIOR TO CONSTRUCTION.

EE. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING.

FF. WHERE BACKBOXES ARE LOCATED IN THE SAME VERTICAL CHANNEL/STUD SPACE ON OPPOSITE SIDES OF THE SAME WALL, PROVIDE SOUND-INSULATING PUTTY AROUND BOXES AS REQUIRED TO ELIMINATE SOUND TRANSMISSION FROM ROOM TO ROOM.

GG. JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED NO MORE THAN 36" ABOVE CEILING LEVEL. LABEL EACH BOX IN AREA OF WORK WITH A PERMANENT MARKER OR IN ACCORDANCE WITH SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.

HH. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTORS' EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.

II. CHECK ALL THREE PHASE MOTORS WITH A PHASE ROTATION METER, PRIOR TO PLACING IN SERVICE.

JJ. ALL ITEMS HAVING KEYED LOCKS/OPERATORS SHALL HAVE CORED LOCKS/OPERATORS. ALL KEYING SHALL MATCH THE OWNER'S EXISTING KEY-WAYS. COORDINATE EXACT REQUIREMENTS WITH OWNER PRIOR TO CONSTRUCTION.

KK. NOISY WORK, WORK OUTSIDE CONSTRUCTION BARRIERS, WORK IN OCCUPIED AREAS, ETC. SHALL BE PERFORMED AFTER HOURS OR ON WEEKENDS. COORDINATE EXACT SCHEDULING WITH FACILITY PRIOR TO CONSTRUCTION.

LL. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. ALL CUTTING AND PATCHING SHALL BE IN ACCORDANCE WITH THE ARCHITECT'S STANDARDS FOR SUCH WORK.

MM. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COMPANY FEES, CASH CONTRIBUTIONS OR OTHER COSTS THAT THE UTILITY COMPANY MAY REQUIRE TO COMPLETE THEIR WORK. (ELECTRIC, TELEPHONE, TELEVISION, DATA, ETC.).

NN. ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK.SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE OR SUB-SERVICE FOR SAFETY PURPOSES. PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. VERIFY THE LOCATION, SIZE, TYPE, ETC. OF EACH UNDERGROUND OR OVERHEAD UTILITY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE AND/OR LOCAL RULES, REGULATIONS, STANDARD AND SAFETY REQUIREMENTS. UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY.

OO. INTERRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER, GENERAL CONTRACTOR, UTILITY COMPANY AS NECESSARY, AND THE ARCHITECT, AT LEAST TWO WEEKS IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED TWO WEEKS IN ADVANCE, IN WRITING. IF UTILITY COMPANY REQUIRES A LONGER NOTIFICATION PERIOD, SO PROVIDE.

PP. WHERE INTERRUPTING AN EXISTING UTILITY OR SERVICE DELIBERATELY OR ACCIDENTALLY, THE RESPONSIBLE CONTRACTOR SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME, PROVIDING PREMIUM TIME AS NEEDED.

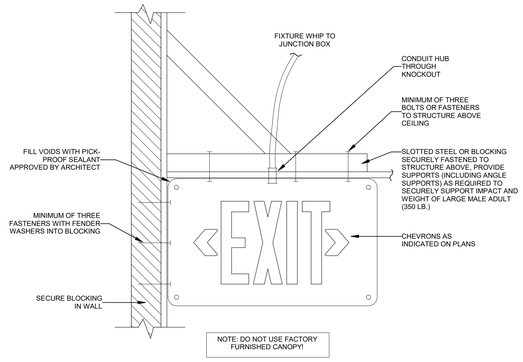
QQ. AS APPLICABLE, REFER TO ARCHITECTURAL PHASING PLANS AND PHASING BOUNDARIES ON THESE DRAWINGS FOR SEQUENCING OF WORK, FULL EXTENT OF AREAS INVOLVED, EXTENT OF CEILING WORK, ETC. PROVIDE TEMPORARY CONNECTIONS FOR CIRCUITS AND WORK AS REQUIRED TO MAINTAIN SEQUENCE OF THE WORK FROM PHASE TO PHASE. PROVIDE ALL REQUIRED INCREMENTAL INSPECTIONS, CERTIFICATIONS, ETC. AND ALL TEMPORARY SERVICES AS REQUIRED BY OWNER TO ACCOMPLISH THE PHASING PLAN.

RR. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, DIRECTLY FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING.

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
SWITCHES		
LIGHT SWITCH-GENERAL PURPOSE	46"	$
EXAM LIGHT SWITCH	46"	$X
NIGHT LIGHT SWITCH WITH CONSTANTLY ILLUMINATED HANDLE	46"	$N
SURGICAL LIGHT INTENSITY CONTROL	46"	$SL
DIMMER SWITCH, 0-10VDC	46"	$D
THREE-WAY SWITCH	46"	$3
FOUR-WAY SWITCH	46"	$4
KEYED SWITCH	46"	$K
AUTOMATIC LIGHTING CONTROLS: REFER TO "INTERIOR LIGHTING CONTROLS DETAIL" ON SHEET FOR LEGEND FOR AUTOMATIC CONTROL DEVICES	46"	
LIGHT SWITCH FOR UNDER-CABINET LIGHTS	46"	$U
ILLUMINATED HANDLE LIGHT SWITCH (ILLUMINATED WHEN LOAD IS OFF)	46"	$IL
PILOT LIGHT SWITCH (ILLUMINATED WHEN LOAD IS ON)	46"	$PL
TIMER SWITCH 0.5-15 MIN. W/ HOLD SETTING TORK #A500 SERIES.	46"	$T
MOMENTARY CONTACT SWITCH	46"	$MC
HAND-OFF-AUTO 3-POSTION SWITCH	46"	$HOA
NON-REVERSING MOTOR STARTER SNAP SWITCH	AS NOTED	$M
AUTOMATIC LIGHTING CONTROLS: REFER TO "INTERIOR LIGHTING CONTROLS DETAIL" ON DETAILS SHEET FOR LEGEND OF AUTOMATIC CONTROL DEVICES		
POWER OUTLETS		
SIMPLEX RECEPTACLE	1'-6"	
DUPLEX RECEPTACLE-SAFETY TYPE, TAMPER-RESISTANT	1'-6"	S
DUPLEX RECEPTACLE	1'-6"	
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPLASH, NO HIGHER THAN 48"		
FILLED CENTER BAR INDICATES INTEGRAL GROUND FAULT PROTECTION (GFCI)	1'-6"	
FILLED OUTER BARS INDICATES DUPLEX RECEPTACLE, SAFETY TYPE, TAMPER-RESISTANT WITH TWO (2) INTEGRAL USB CHARGING PORTS - ONE (1) USB "A" PORT AND ONE (1) USB "C" PORT (HUBBELL #USB8300ACS SERIES OR APPROVED EQUAL). MOUNT ABOVE COUNTERTOP 4" ABOVE BACKSPLASH, NO HIGHER THAN 48".	ACT.	
GANG RECEPTACLE IN COMBINATION WITH SWITCH (PROVIDE DIVIDER IF LIGHTING CIRCUIT IS 277V)	46"	C/S
JUNCTION BOX		J
DUPLEX RECEPTACLE, CEILING MOUNTED	CLG	
QUADRUPLEX RECEPTACLE	1'-6"	
VOLTAGE/1PH RECEPTACLE, AS NOTED	AS NOTED	
VOLTAGE/3PH RECEPTACLE, AS NOTED	1'-6"	
"DOG-HOUSE" TYPE TWIN DUPLEX RECEPTACLE WITH ONE DUPLEX RECEPTACLE ON BOTH SIDES (2) HUBBELL #5300-4R RECEPTACLES	ON CNTR.	DP
HUBBELL #SC3098 BOX (2) HUBBELL #SS309d COVERS		
SS INDICATES SURGE SUPPRESION TYPE OUTLET(S)		SS
GROUND FAULT PROTECTED DUPLEX WITH WEATHER-PROOF "WHILE IN USE" TYPE DIE-CAST METAL COVERPLATE WITH LOCKABLE ENCLOSURE AT OUTLET - SEE SPECIFICATIONS	2'-2"	WP
DUPLEX FOR ELECTRIC WATER COOLER: PROVIDE GFI TYPE CIRCUIT BREAKER FOR CIRCUIT SERVING WATER COOLER COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR TO CONCEAL OUTLET BEHIND COOLER.		EWC
FIRE ALARM		
MAIN CONTROL PANEL CENTRAL PROCESSING UNIT (CPU)	6'-6" TO TOP	FACP
PULL STATION : DOUBLE ACTION	46" TO LEVER	F
KEY-OPERATED STATION SHALL ONLY BE OPRABLE VIA KEY IN POSSESSION OF STAFF (NO HANDLE).	46" TO LEVER	F K
AUDIO/VISUAL NOTIFICATION APPLIANCE	CLG	F
AUDIO-ONLY NOTIFICATION APPLIANCE	CLG	A
VISUAL-ONLY NOTIFICATION APPLIANCE	CLG	S
WALL MOUNTED AUDIO/VISUAL NOTIFICATION APPLIANCE, WALL MOUNTED VISUAL- ONLY NOTIFICATION APPLIANCE	80"	F S W W
BELL / LIGHT	80"	BL
BELL ONLY	80"	B
PHOTO-ELECTRIC SMOKE DETECTOR	CLG	SD
PHOTO-ELECTRIC SMOKE DETECTOR FOR PATIENT ROOM MONITORING (SEE RISER)	CLG	SD P
PHOTO-ELECTRIC SMOKE DETECTOR/HEAT DETECTOR FOR ELEVATOR CONTROL.		SD EL HD EL
HEAT DETECTOR	CLG	HD
CARBON MONOXIDE DETECTOR	CLG	CO
CARBON MONOXIDE ALARM: SINGLE STATION W/SOUNDER BASE	CLG	CM
CARBON MONOXIDE AUDIO/VISUAL NOTIFICATION APPLIANCE	WALL	F CM
DOOR HOLDER : WALL TYPE	WALL	DH
DOOR HOLDER : CLOSURE TYPE	ABV DOOR	DH C
DUCT SMOKE DETECTOR	ABV CLG	DD
CONNECTION TO SPRINKLER FLOW SWITCH WITH ADDRESSABLE MODULE		FS
CONNECTION TO SPRINKLER TAMPER SWITCH WITH ADDRESSABLE MODULE		TS
PRESSURE SWITCH		PS
REMOTE L.C.D. FIRE ALARM ANNUNCIATOR	54"	FAA
POST INDICATOR VALVE		PIV
POWER SUPPLY/CONTROL FOR AUDIO/VISUAL DEVICES	54"	NAC
GRAPHICS DISPLAY TERMINAL		GDT
ISOLATION MODULE	WALL	I
ZONE ADDRESSABLE MODULE		Z
H.V.A.C. SMOKE DAMPER CONNECTION		SM
FLUSH MOUNTED REMOTE ALARM INDICATING STATION/TEST SWITCH	7'-6"	RI
FIREMAN'S PHONE JACK		FP
ADDRESSABLE RELAY MODULE		R
VANDAL-PROOF POLYCARBONATE COVER, VANDAL PROOF COVERS SHALL BE UL LISTED FOR USE WITH THE SPECIFIC DEVICE THEY ARE PROTECTING		PC

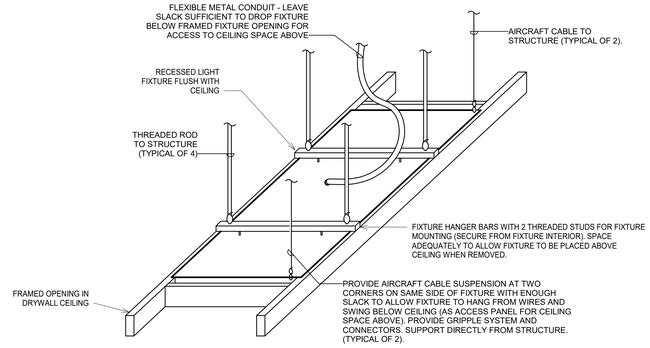
DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
LIGHTING		
REFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE SPECIFICATIONS, MOUNTING HEIGHTS, ETC.		
SURFACE CEILING FIXTURE (SLASH INDICATES RECESSED)		
LIGHT POLE		
EMERGENCY BATTERY WALL-PACK		
WALL MOUNT FIXTURE		
FLOODLIGHT		
SURGICAL/EXAM LIGHT		SL XL
EXIT LIGHT (CEILING, END, WALL MOUNT)		
STRIP FIXTURE		
CROSS-HATCHING INDICATES LIGHT IS POWERED FROM THE EMERGENCY-CRITICAL BRANCH		
PARALLEL-HATCHING INDICATES LIGHT IS POWERED FROM THE EMERGENCY-LIFE SAFETY BRANCH		
MISCELLANEOUS		
CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE. ARROW(S) INDICATE(S) HOME RUN & # OF CIRCUITS: HASHMARKS INDICATE # OF CONDUCTORS. DASHED LINE INDICATES CONDUIT BELOW FLOOR.		GROUND NEUTRAL PHASE
DISCONNECT SWITCH	54"	
MAGNETIC STARTER	54"	
MAGNETIC COMBINATION STARTER	54"	
ENCLOSED FLUSH MTD. CIRCUIT BREAKER	54"	
BOX ON ANY DEVICE INDICATES SURFACE MOUNTED BACKBOX/WIREMOLD		
WIREWAY WITH REMOVABLE COVER (SIZE AS NOTED)	AS SHOWN	
TRENCH DUCT (SIZE AS NOTED)	AS SHOWN	
PUSHBUTTON STATION	46"	
FLEXIBLE CONDUIT		
PANELBOARD, SURFACE OR FLUSH MOUNTED, HATCHING INDICATES EMERGENCY	6'-6" TO TOP	
TRANSFORMER	AS NOTED	
EQUIPMENT TAG, REFER TO EQUIPMENT SCHEDULE		EQUIP-1
TAGGED NOTE		
REVISION TAG		
MECHANICAL EQUIPMENT DESIGNATOR (SEE MECH. SCHEDULES)		
JUNCTION BOX, CEILING OR WALL		J H J
CABLE TRAY	AS SHOWN	
LOW VOLTAGE CABLE PATH		
DOORBELL PUSHBUTTON STATION, PROVIDE COMPLETE WITH TRANSFORMER (MOUNT ABOVE CEILING IN CORRIDOR NEAR PUSH-BUTTON) AND ALL ACCESSORIES, POWER FROM NEAREST AVAILABLE 120V NORMAL POWER GENERAL RECEPTACLE CIRCUIT, NUTONE OR EQUAL.	46"	DB
DOORBELL AUDIO-VISUAL STATION, PROVIDE CONNECTION TO PUSHBUTTON STATION IN AREA. COORDINATE EXACT AUDIO SOUND (CHIME, BUZZER, ETC.) DESIRED WITH OWNER/ARCHITECT, NUTONE OR EQUAL	7'-8"	DB
EQUIPMENT HARDWIRE CONNECTION (SEE DETAIL)		W
EQUIPMENT OUTLET COUPLING CONNECTION (SEE DETAIL)		K
REMOTE GFI DEVICE		GFI
INDICATES MOUNTING HEIGHT OF 46"	46"	W
INDICATES WALL PHONE WITH TWO LUG PLATE, MOUNTING HEIGHT OF 46"		WL
INDICATES MOUNTING ABOVE COUNTER-TOP, 4" ABOVE BACKSPLASH, NO HIGHER THAN 48"		C
INDICATES CEILING MOUNT		CLG
WIREGUARD - SERVICE MANUFACTURER'S SPECIFIC GUARD FOR DEVICE NOTED		WG
WEATHERPROOF - NEMA-3R, WET LOCATION LISTED. PROVIDE COVERS, RATINGS, ETC, AS SUITABLE FOR OUTDOORS.		WP
EXPLOSION PROOF - PROVIDE WIRING METHODS, ENCLOSURES, RATINGS, ETC. AS SUITABLE FOR HAZARDOUS LOCATION.		XP
INDICATES EMERGENCY POWER		E,EM
PLUMBING FIXTURE SOLENOID VALVE/ELECTRIC EYE SENSOR CONNECTION. COORDINATE EXACT CONNECTION REQUIREMENTS WITH MANUFACTURER		
PLUMBING FIXTURE ELECTRIC EYE TRANSFORMER CONNECTION. TRANSFORMER SHALL BE 120V-24V. MOUNT ABOVE SUSPENDED ACCESSIBLE CEILING IN J-BOX. PROVIDE ADDITIONAL TRANSFORMERS OF SAME TYPE AS/IF NEEDED		
PROVIDE CONNECTION TO HAND DRYER (SEE ARCHITECTURAL SPECIFICATIONS)	VERIFY WITH ARCHITECT	
SURGE PROTECTION DEVICE		SPD
GENERATOR ANNUNCIATOR PANEL - SEE SPECIFICATIONS	54"	GEN-A
THERMOSTAT PROVIDED BY MECHANICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL PROVIDE BACK-BOX CONDUIT STUB-UP.		T
DATA / VOICE		
DATA OUTLET	1'-6"	FIRST NUMBER INDICIATES NODE NUMBER FOR CABLE TERMINATION (TYP.) # - #D SECOND NUMBER INDICATES NUMBER OD DATA PORTS (TYP.)
VOICE OUTLET	1'-6"	# - #V INDICATES NUMBER VOICE PORTS (TYP.)
COMBINATION OUTLET : NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA/VOICE JACKS	1'-6"	
MAIN DISTRIBUTION FRAME - REFERENCE COMMUNICATIONS SYSTEM SPECIFICATIONS AND DETAILS FOR ADDITIONAL REQUIREMENTS		MDF
INTERMEDIATE DISTRIBUTION FRAME - REFERENCE COMMUNICATIONS SYSTEM SPECIFICATIONS AND DETAILS FOR ADDITIONAL REQUIREMENTS		IDF
TELECOMMUNICATIONS SYSTEM BACKBOARD. PROVIDE 96"H x 3/4"D FIRE-RETARDENT PLYWOOD BACKBOARD WITH TWO (2) COATS OF NON-CONDUCTIVE, FIRE-RETARDANT WHITE PAINT. INSTALL BOARD AT 2' AFF. (LENGTH OF BOARD AS INDICATED ON FLOOR PLAN). ALL WALL MOUNTED EQUIPMENT AND POWER RECEPTACLES IN COMMUNICATIONS ROOMS MUST BE MOUNTED TO THESE BOARDS.		TEL
WIRELESS ACCESS POINT WITH PROVISIONS FOR DATA OUTLET FOR ANTENNA. PROVIDE A COMPLETE DATA OUTLET WITH FACEPLATE ABOVE CEILING, MOUNTED AT AN ACCESSIBLE HEIGHT NO MORE THAN 24" ABOVE CEILING. AT EACH OUTLET, PROVIDE A 25' COIL OF CABLE AHEAD OF THE OUTLET FOR ADJUSTMENT OF FINAL OUTLET LOCATION. THE CONTRACTOR SHALL COORDINATE EXACT LOCATIONS WITH THE OWNER AND ADJUST OUTLET LOCATIONS AT SUBSTANTIAL COMPLETION TO ACCOMMODATE OWNER'S WAP LOCATIONS BASED ON A WIRELESS SURVEY. ALL WAPs TO BE LOCATED ABOVE CEILING		WAP # - #D

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
ABBREVIATIONS		
UNLESS OTHERWISE NOTED		UON
OWNER FURNISHED CONTRACTOR INSTALLED		OFCI
OWNER FURNISHED OWNER INSTALLED		OFOI
CONTRACTOR FURNISHED CONTRACTOR INSTALLED		CFCI
CONTRACTOR FURNISHED OWNER INSTALLED		CFOI
INDICATES EMERGENCY POWER		EM
SPECIAL OUTLETS		
1-GANG FLOOR BOX WITH 20A DUPLEX RECEPTACLE, ROUTE (1) 1" C UNDERSLAB TO LOCATION FOR POWER.	FLOOR	FB
2-GANG FLOOR BOX WITH 20A DUPLEX RECEPTACLE, TWO DATA. ROUTE UNDERSLAB TO LOCATION; (1) 1" C FOR POWER & (1) 1" C FOR DATA.	FLOOR	FB-A
3-GANG FLOOR BOX WITH 20A DUPLEX RECEPTACLE, TWO DATA, ONE HDMI. ROUTE UNDERSLAB TO LOCATION; (1) 1" C FOR POWER, (1) 1" C FOR DATA, & (1) 2" C FOR HDMI.	FLOOR	FB-B
3-GANG FLOOR BOX WITH 20A DUPLEX RECEPTACLE, TWO DATA, TWO HDMI. ROUTE UNDERSLAB TO LOCATION; (1) 1" C FOR POWER, (1) 1" C FOR DATA, & (1) 2" C FOR HDMI.	FLOOR	FB-C
FIRE RATED POKE-THRU FLOOR BOX, 2-GANG WITH 20A DUPLEX RECEPTACLE, TWO DATA. ROUTE UNDERSLAB TO LOCATION; (1) 1" C FOR POWER AND (1) 1" C FOR DATA.	FLOOR	PT-A
FIRE RATED POKE-THRU FLOOR BOX, 3-GANG WITH 20A DUPLEX RECEPTACLE, TWO DATA, ONE HDMI. ROUTE UNDERSLAB TO LOCATION; (1) 1" C FOR POWER, (1) 1" C FOR DATA & (1) 2" C FOR HDMI.	FLOOR	PT-B
FIRE RATED POKE-THRU FLOOR BOX, 3-GANG WITH 20A DUPLEX RECEPTACLE, TWO DATA, TWO HDMI. ROUTE UNDERSLAB TO LOCATION; (1) 1" C FOR POWER, (1) 1" C FOR DATA & (1) 2" C FOR HDMI.	FLOOR	PT-C
OVERHEAD PROJECTOR: PROVIDE DUPLEX RECEPTACLE, ONE DATA, HDMI, 3.5mm AUDIO, AND VGA OUTLET ON (3) PLATES.	CLG	
SPECIAL VIDEO SYSTEM SIGNAL INPUT		
SURFACE PLUG-MOLD		
SURFACE WIRE-MOLD		
POWER POLE AS NOTED		PP
TELEVISION		
TELEVISION SPLITTERS/AMPLIFIERS/DISTRIBUTION	54"	TV
TELEVISION SYSTEM OUTLET WITH DUPLEX RECEPTACLE, COORDINATE LOCATION WITH WALL BRACKET WHERE APPLICABLE	7'-0"	T
MULTIMEDIA CENTER OUTLET. REFER TO DETAIL FOR REQUIREMENTS.	COORD. WITH ARCHITECT	WP
OVERHEAD PAGING & MUSIC		
PAGING SPEAKER: CEILING LEAVE 10' OF ADDITIONAL SLACK COILED AT PROPOSED SPEAKER LOCATIONS FOR FINAL ADJUSTMENT OF SPEAKER LOCATIONS.	CLG	S
PAGING SPEAKER: WALL	8'-0"	S
RECESSED WALL MOUNTED PAGING SPEAKER	8'-0"	S R
WALL



4 CORNER/END MOUNT EXIT SIGN DETAIL

E0.2 — 12" = 1'-0"



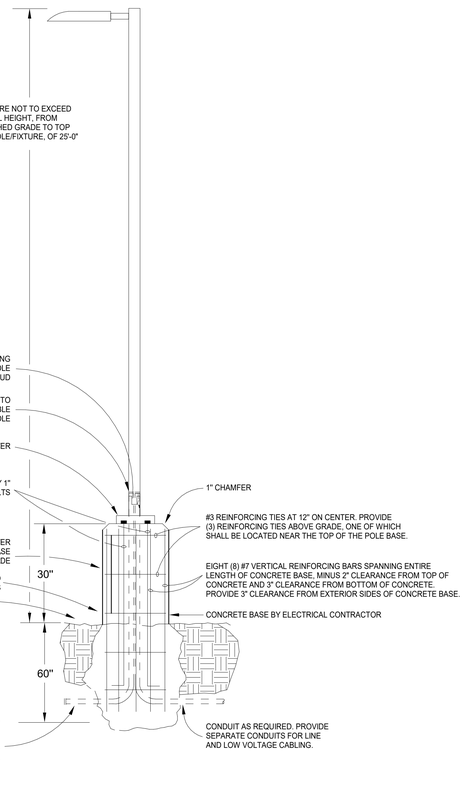
NOTES:

A. COORDINATE ABOVE CEILING WORK WITH ALL TRADES TO ENSURE COMPONENTS ABOVE CEILING REQUIRING ACCESS ARE INSTALLED IN SUCH A WAY THAT THEY CAN BE ACCESSED THROUGH FIXTURE OPENING.

B. COMPLETE INSTALLATION SHALL BE PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

1 FIXTURE ACCESS IN DRYWALL CEILING DETAIL

E0.2 — 12" = 1'-0"



3 POLE BASE DETAIL

E0.2 — 12" = 1'-0"

LIGHTING CONTROL LEGEND

WALL SWITCH SENSOR, STAND ALONE, DUAL TECHNOLOGY, SINGLE POLE	SENSOR SWITCH: WSX PDT
WALL SWITCH SENSOR, DUAL TECHNOLOGY, TWO ZONE, INDEPENDANT POWER SOURCES AND TIME DELAY	SENSOR SWITCH: WSX PDT 2P
WALL SWITCH SENSOR, STAND ALONE, DUAL TECHNOLOGY, 0-10V DIMMING	SENSOR SWITCH: WSX PDT.D
DIGITAL WALL SWITCH, ON/OFF, SINGLE ZONE	SENSOR SWITCH: nPODM
DIGITAL WALL SWITCH, ON/OFF, TWO ZONE	SENSOR SWITCH: nPODM 2P
DIGITAL WALL SWITCH, ON/OFF OR SCENE, FOUR BUTTON	SENSOR SWITCH: nPODM 4S
DIGITAL WALL SWITCH, DIMMING, SINGLE ZONE	SENSOR SWITCH: nPODM DX
DIGITAL WALL SWITCH, DIMMING, TWO ZONE	SENSOR SWITCH: nPODM 2P DX
DIGITAL WALL SWITCH, TWO SCENE CONTROLLER, WITH RAISE/LOWER	SENSOR SWITCH: nPODM 2S DX
DIGITAL WALL SWITCH, FOUR SCENE CONTROLLER, WITH RAISE/LOWER	SENSOR SWITCH: nPODM 4S DX
DIGITAL WALL GRAPHIC INTERFACE, TOUCHSCREEN	SENSOR SWITCH: nPOD GFX
WALL TIMER SWITCH, LOW TEMP, HIGH HUMIDITY, FLASH WARNING	SENSOR SWITCH: PTS-60-LT
DIGITAL KEYED WALL SWITCH, MOMENTARY 0-10V DIMMER	ACUITY CONTROLS: nPOD KEY
DIGITAL KEYED WALL SWITCH, ON/OFF	ACUITY CONTROLS: nPOD KEY MNTN
CEILING SENSOR, DUAL TECHNOLOGY, SURFACE MOUNTED TO CEILING	SENSOR SWITCH: nCM PDT 9
CEILING SENSOR, DUAL TECHNOLOGY, SURFACE MOUNTED TO CEILING, EXTENDED RANGE	SENSOR SWITCH: nCM PDT 10
WALL MOUNT OCCUPANCY SENSOR, DUAL TECHNOLOGY, INSTALL AT 6' BELOW CEILING, NO LOWER THAN 8'	SENSOR SWITCH: nWV PDT 16 KIT
PHOTOCELL, CLOSED LOOP, DIGITAL OUTPUT, DIMMING, DUAL ZONE, RECESSED MOUNT	SENSOR SWITCH: nRM ADCX DZ
PHOTOCELL, DIGITAL OUTPUT, DIMMING, OUTDOOR, SURFACE MOUNT	ACUITY CONTROLS: nIO PC KIT
POWER PACK RELAY, ON/OFF, SINGLE ZONE, 16A	SENSOR SWITCH: nPP16
POWER PACK RELAY, ON/OFF, SINGLE ZONE, 16A, UL924 EMERGENCY FUNCTION	SENSOR SWITCH: nPP16 ER
POWER PACK RELAY, DIMMING, SINGLE ZONE, 16A	SENSOR SWITCH: nPP16 D
POWER PACK RELAY, DIMMING, SINGLE ZONE, 16A, UL924 EMERGENCY FUNCTION	SENSOR SWITCH: nPP16 D ER
PLUG LOAD CONTROLLER, SINGLE ZONE, 20A	SENSOR SWITCH: nPP20PL
POWER PACK, SLAVE RELAY, ON/OFF, SINGLE ZONE	SENSOR SWITCH: nSP16
BACNET INTERFACE	SENSOR SWITCH: nBACNET
ETHERNET GATEWAY	SENSOR SWITCH: nGWY2 KIT
SERIAL DATA INTERFACE MODULE	SENSOR SWITCH: nIO X KIT

GENERAL NOTES :

A. OS - OCCUPANCY SENSORS TO BE PROGRAMMED AS AUTOMATIC ON, AUTOMATIC OFF.

B. VS - VACANCY SENSORS TO BE PROGRAMMED AS MANUAL ON, AUTOMATIC OFF.

C. "OS "AND "VS "SENSOR AUTOMATIC OFF TIME INTERVAL TO BE SET AT 20 MIN.

D. ADJUST SENSOR LOCATIONS AND SENSITIVITY LEVELS TO MINIMIZE NUISANCE TRIPPING AND FALSE OFFS.

E. ALL DEVICES TO BE LOCATED IN ACCESSIBLE LOCATIONS APPROVED BY ENGINEER.

F. ALL WALL CONTROLS TO BE INSTALLED AT SAME HEIGHT AS OTHER LIGHT SWITCHES, AS INDICATED ON ELECTRICAL LEGEND.

G. ALL POWER PACKS TO BE INSTALLED ABOVE CEILING, UON.

H. REFER TO SPECIFICATIONS FOR DEVICE FINISHES.

I. THIS DETAIL IS FOR DIAGRAMMATIC PURPOSES ONLY. PROVIDE ALL COMPONENTS AND PROGRAMMING AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.

J. ALL EXTERIOR LIGHTING TO BE CONTROLLED BY AUTOMATIC DUSK-TO-DAWN OPERATION VIA EXTERIOR PHOTOCELL, UON.

K. PROVIDE ONE FIELD CONFIGURABLE RELAY PER EXTERIOR LIGHTING CONTROL ZONE. PROVIDE NUMBER OF RELAYS/LIGHTING CONTROL PANELS AS REQUIRED FOR NUMBER OF EXTERIOR LIGHTING CIRCUITS CONTROLLED, PLUS A MINIMUM OF (6) SPARES.

L. CIRCUITS INDICATED WITH CONNECTION TO OVERRIDE SWITCH FOR COURTYARD LIGHTING SHALL BE WIRED TO OVERRIDE AUTOMATIC DUSK-TO-DAWN OPERATION. FIXUTRES SHALL TURN ON REGARDLESS OF SWITCH POSITION IN THE CASE OF LOST NORMAL POWER.

M. ALL RELAYS PROVIDED IN LIGHTING CONTROL PANEL TO BE FIELD CONFIGURABLE. PROVIDE NUMBER OF POLES AS REQUIRED FOR CIRCUITS SHOWN ON PLANS. ASSOCIATED RELAYS FOR CONTROL OF EMERGENCY LIFE-SAFETY LIGHTING CIRCUITS TO BE UL 924 LISTED FOR SWITCHING EMERGENCY CIRCUITS.

N. PROVIDE LOW VOLTAGE PHOTOCELL ON ROOF FACING NORTH WITH CLEAR VIEW OF SKY.

O. REFER TO FLOORPLANS FOR LOCATION OF NEW LIGHTING CONTROL PANEL AND LIGHTING CONTROLS.

P. PROVIDE SEPARATE ENCLOSURES WITHING LIGHTING CONTROL PANEL FOR NORMAL AND EMERGENCY POWER CIRCUITS AND CIRCUITS OF DIFFERENT VOLTAGES.

Q. PROVIDE NUMBER OF nLIGHT BRIDGES (ACUITY CONTROLS #nBRG 8) AS REQUIRED WHEN ROUTING CAT6 CABLING DISTANCES GREATER THAN 1500'-0" OR WHEN OTHERWISE REQUIRED FOR THE APPLICATION.

R. PROVIDE (2) 4 HOUR TRAINING SESSIONS ON SITE, IN A CLASSROOM SETTING, FOR TRAINING OF THE OWNER'S STAFF IN OPERATION, PROGRAMMING, AND MAINTENANCE OF THE LIGHTING CONTROLS SYSTEM. TRAINING SHALL BE CONDUCTED BY A CERTIFIED MANUFACTURER'S REPRESENTATIVE. CONTRACTOR SHALL VIDEO TAPE TRAINING SESSIONS AND PROVIDE DIGITAL VIDEO FILES TO THE OWNER ON USB FLASH DRIVE MEDIA.

S. AWARDED CONTRACTOR SHALL PROVIDE SCALED FACTORY SHOP DRAWINGS FOR CONTROLS LAYOUTS INDICATING ALL DEVICES AND WIRING FOR REVIEW.

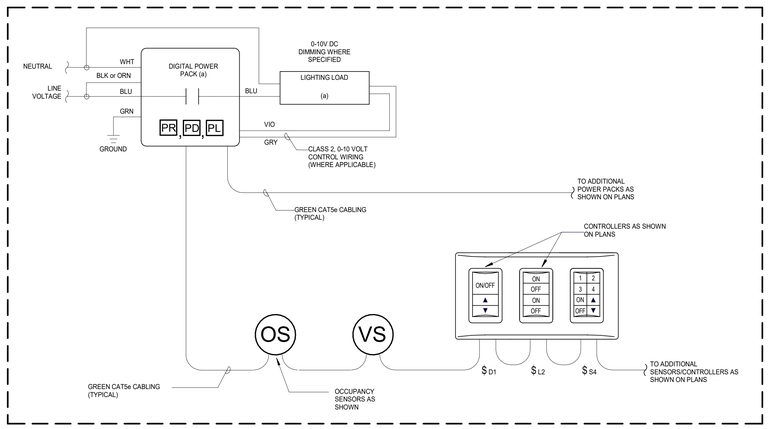
T. ALL CAT6 CABLING SERVING THE LIGHTING CONTROLS SYSTEM TO BE PURPLE IN COLOR.

U. EQUAL PRODUCTS BY COOPER CONTROLS OR WATTSTOPPER ARE ACCEPTABLE.

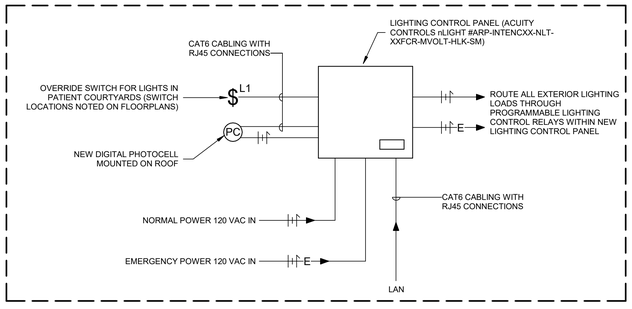
2 LIGHTING CONTROL DETAIL AND SCHEDULE

E0.2 — 12" = 1'-0"

INTERIOR LIGHTING CONTROL SCHEMATIC



EXTERIOR LIGHTING CONTROL SCHEMATIC



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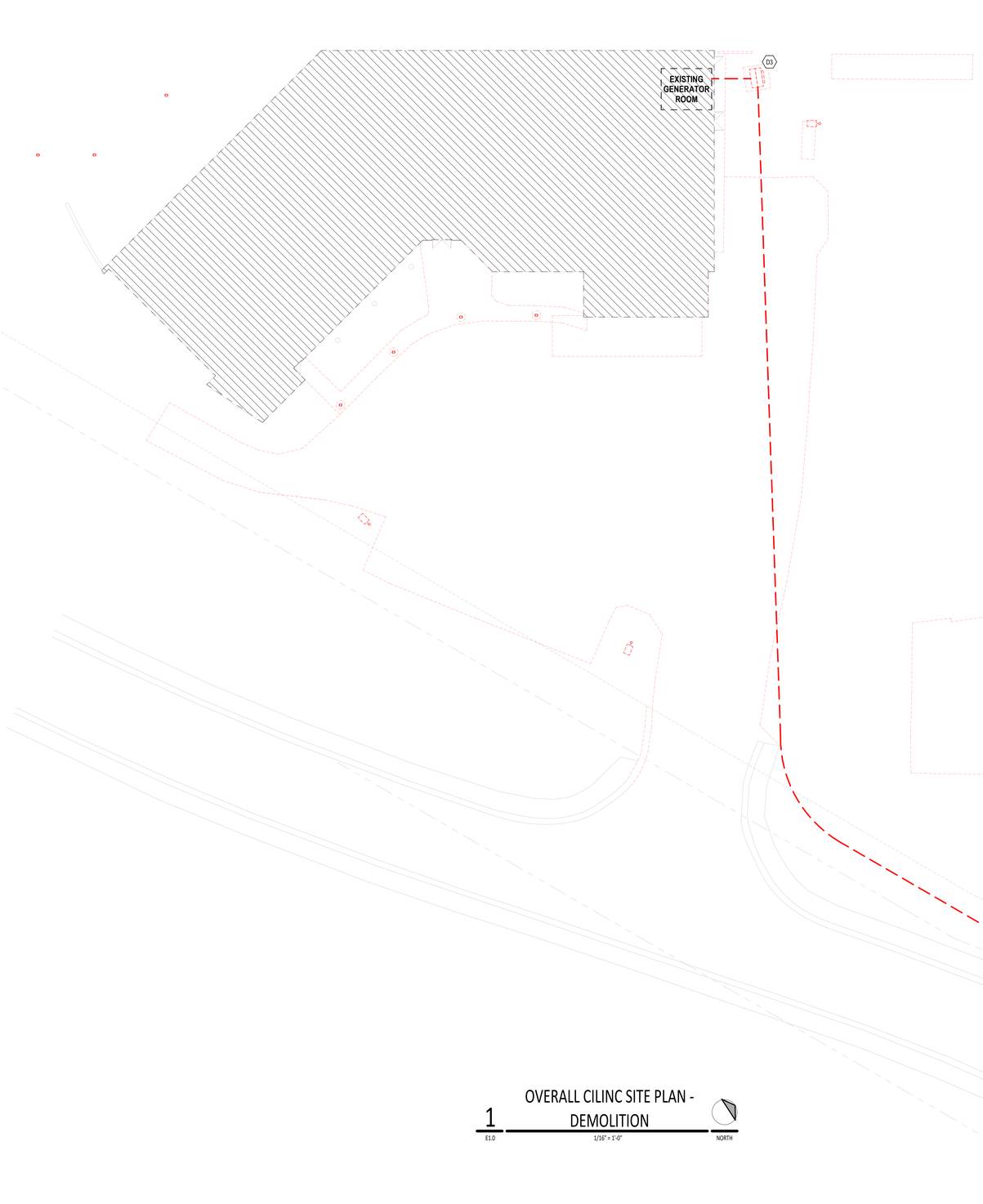
SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

LIGHT FIXTURE SCHEDULE AND DETAILS

IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

E0.2



1 OVERALL CILINC SITE PLAN - DEMOLITION
E1.0 1/16" = 1'-0" NORTH

GENERAL NOTES (DEMOLITION):

A. DOTTED LINES INDICATE ITEMS FOR REMOVAL (UON) AND GRAY SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.

B. DEVICES INDICATED WITH AN "R" SHALL BE RELOCATED. REMOVE, PROTECT, AND REINSTALL IN NEW LOCATION INDICATED ON NEW WORK PLANS. INTERCEPT AND EXTEND ALL EXISTING CABLING TO NEW LOCATION. CLEAN AND RE-LAMP RELOCATED LUMINAIRES.

C. THE CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS THAT CONTAIN DEVICES OR EQUIPMENT THAT ARE TO REMAIN. WHEN DEMOLITION OF AN ELECTRICAL DEVICE (OR CIRCUIT) IS INDICATED ON THE DRAWINGS: THE CONTRACTOR SHALL ENSURE THAT OTHER DEVICES OR EQUIPMENT "UPSTREAM" OR "DOWNSTREAM" ON THE CIRCUITS SHALL REMAIN IN "PRE- DEMOLITION" WORKING ORDER. "LEFT-OVER" CIRCUIT BREAKERS SHALL REMAIN, BE SWITCHED TO OFF POSITION, AND BE LABELED AS SPARES IN THEIR PANELS. PROVIDE NEW TYPEWRITTEN DIRECTORIES FOR ALL PANELS AFFECTED.

D. LOCATIONS OF DEVICES, CONNECTIONS, ETC., INDICATED ON THIS DRAWING WERE TAKEN FROM VARIOUS SOURCES. THEY ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO VARIATION FROM EXISTING CONDITIONS. CERTAIN EXISTING ELEMENTS MAY NOT BE INDICATED AT ALL. THE CONTRACTOR PROPOSING TO DO ANY PART OF THE WORK INDICATED HEREON SHALL VISIT THIS SITE AND DETERMINE TO HIS SATISFACTION THAT THEY MAY COMPLETE ALL WORK REQUIRED FOR THE BID WHICH HE PROPOSES.

E. REMOVE ALL ASSOCIATED BACKBOXES, CONDUIT AND CONDUCTORS FOR DEVICES / FIXTURES / ETC. BEING REMOVED (BACK TO SOURCE), WHETHER INDICATED OR NOT (UON). CONTRACTOR SHALL PATCH AND REPAIR ANY EXISTING WALLS, FLOORS OR CEILINGS WHERE DEVICES ARE SHOWN TO BE REMOVED (PATCH AND REPAIR TO RECEIVE NEW FINISHES - SEE ARCHITECTURAL PLANS).

F. COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH OWNER. TURN OVER ITEMS REMOVED TO OWNER AT THEIR OPTION.

G. COORDINATE WITH OTHER TRADES FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL DEVICES AND CONNECTIONS ASSOCIATED WITH THEIR EQUIPMENT.

H. PROVIDE TEMPORARY EMERGENCY EXIT LIGHTS AT CONSTRUCTION BARRIERS AS REQUIRED.

I. CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS / CEILINGS AS REQUIRED WHERE DEVICES ARE BEING REMOVED OR INSTALLED.

J. UNUSED/ABANDONED CONDUCTORS DISCOVERED ABOVE ACCESSIBLE CEILINGS SHALL BE REMOVED IN ACCORDANCE WITH NEC REQUIREMENTS.

K. EXISTING ELECTRICAL SYSTEMS IN CONFLICT WITH CONSTRUCTION SHALL BE RELOCATED TO PERMIT INSTALLATION OF DEVICES AND EQUIPMENT SHOWN ON PLANS.

L. CONTRACTOR SHALL SEAL ALL EXISTING AND NEW PENETRATIONS OF BUILDING ENVELOPE (EXTERIOR WALLS, ROOF, ETC.) WATER-TIGHT AND AS APPROVED BY ARCHITECT AND ENGINEER. ROOFING SHALL BE RESTORED BY A LICENSED ROOFING CONTRACTOR BASED ON WRITTEN INSTRUCTIONS AND DETAILS FROM ROOFING MANUFACTURER AS REQUIRED TO MAINTAIN ROOF WARRANTY. REFER TO ARCHITECTURAL AND ENGINEERING PLANS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.

M. ALL EXISTING PANELS AFFECTED BY THIS CONTRACTOR'S WORK SHALL BE PROVIDED WITH NEW TYPE-WRITTEN PANEL DIRECTORIES AND INSERT SLEEVES. PANEL DIRECTORIES SHALL NOT USE ROOM NAMES OR NUMBERS FROM THESE DRAWINGS. DIRECTORIES SHALL BE DETAILED AND COORDINATED WITH OWNER'S SUITE NUMBERS, FINAL ROOM NUMBERS, IT RACK NAMES, WORKSTATION DESIGNATIONS, ETC. UNUSED BREAKERS SHALL BE IN OFF POSITION.

N. RELOCATED JUNCTION BOXES AND OTHER EXISTING ITEMS REQUIRENG ACCESS TO ACCESSIBLE LOCATIONS WHERE NEW WORK BY ANY TRADE WOULD MAKE SUCH ITEMS INACCESSIBLE.

GENERAL NOTES (PHASING):

THIS FACILITY AND ALL SERVICES WITHIN IS TO REMAIN FULLY OPERATIONAL.

WHEN PERFORMING WORK DURING THE FACILITY'S BUSINESS HOURS, CONTRACTOR SHALL PROVIDE METHOD OF TEMPORARY POWER AS REQUIRED TO KEEP THIS FACILITY FULLY OPERATIONAL AND SHALL IMPOSE MINIMAL IMPACT TO THE OPERATIONS OF THIS FACILITY AS DEEMED ACCEPTABLE BY THE OWNER.

PHASING IS CRITICAL FOR THE SCOPE OF WORK. CLOSELY COORDINATE WORK WITH FACILITY - MULTIPLE WORK PHASES AND WORK AT WEEKENDS AND/OR NIGHTS WILL BE REQUIRED (TYPICA). COORDINATE FACILITY'S OPERATIONAL HOURS WITH THE OWNER PRIOR TO BID.

KEYNOTES:

D3 EXISTING UTILITY TRANSFORMER TO BE DEMOLISHED. PRIOR TO DEMOLITION OF THIS EQUIPMENT, THE NEW UTILITY TRANSFORMER SHALL BE INSTALLED ON SITE WITH THE NEW SERVICE FEEDERS FED TO THE EXISTING SERVICE ENTRANCE PANEL IN THE CLINIC. REFER TO PHASING NOTE FOR FURTHER REQUIREMENTS.

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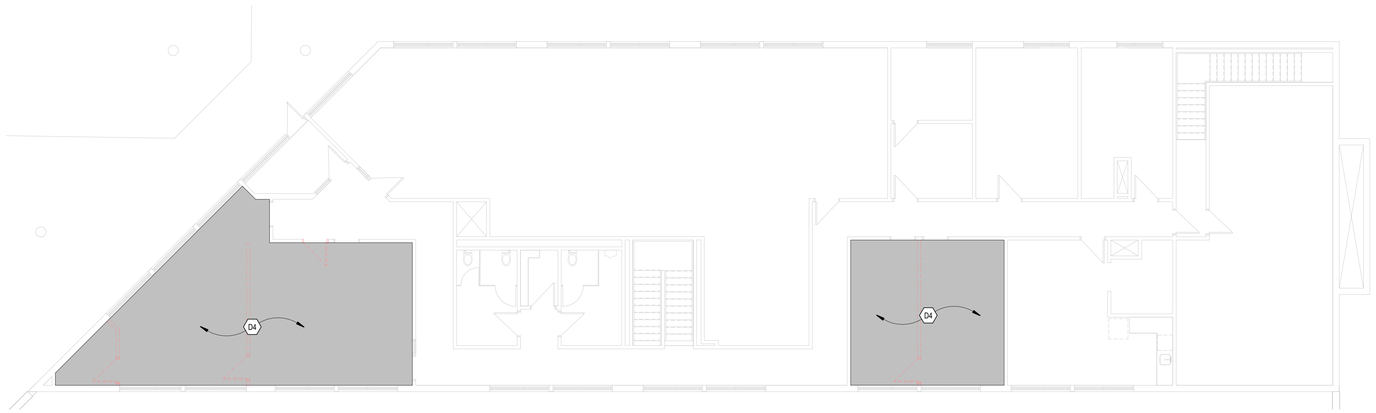
SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

ELECTRICAL SITE DEMOLITION PLAN

IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

E1.0



2 OVERALL CLINIC SECOND FLOOR PLAN - DEMOLITION
E1.1 1/8" = 1'-0"



1 OVERALL CLINIC FIRST FLOOR PLAN - DEMOLITION
E1.1 1/8" = 1'-0"

GENERAL NOTES (INTERCONNECTION):

A. THE CONTRACTOR SHALL VISIT SITE AND VERIFY THAT PULL BOXES AND CONDUITS MAY BE INSTALLED AS INDICATED. IF THERE IS A CONFLICT, CONTRACTOR SHALL NOTIFY ENGINEER 10 DAYS PRIOR TO BID. NO PRICE CHANGE WILL BE GIVEN FOR ANY ALTERNATE ROUTINGS OF CONDUIT AFTER THE CONTRACT HAS BEEN AWARDED. NOTIFY FACILITY ENGINEER AT LEAST 24 HOURS IN ADVANCE OF ANY VISIT.

B. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES (WHETHER EXISTING OR NEW).

C. COORDINATE ALL WORK WITH ARCHITECTURAL/MECHANICAL PHASING AND APPROPRIATE FACILITY STAFF. WORK IN CERTAIN AREAS SHALL BE DONE ON WEEKENDS AND/OR AT NIGHT. COORDINATE ALL REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO BID.

D. COORDINATE ALL WORK WITH ARCHITECTURAL/MECHANICAL PHASING AND APPROPRIATE FACILITY STAFF. WORK IN CERTAIN AREAS SHALL BE DONE ON WEEKENDS AND/OR AT NIGHT. COORDINATE ALL REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO BID.

E. PROVIDE UL LISTED PENETRATIONS TO MATCH RATING OF WALL/FLOOR ASSEMBLY.

F. OPEN CABLING PATHWAYS ARE NOT PERMITTED ABOVE INACCESSIBLE CEILINGS OR IN AREAS WITH NO CEILINGS UNLESS OTHERWISE NOTED. PROVIDE RACEWAY FROM OUTLET BOX TO CABLE TRAY OR ACCESSIBLE CEILING.

G. COORDINATE EXACT LOCATION OF ALL SLEEVES SO THEY ARE INSTALLED ABOVE CABLE TRAYS.

H. REMOVE AND RE-INSTALL ALL CEILING TILES, HARD CEILINGS, AND/OR GRID MEMBERS AS NECESSARY TO PERFORM WORK REQUIRED. TO ENSURE NEW REPLACEMENT CEILING TILES MATCH EXISTING TILES IN AREA, THE CONTRACTOR SHALL REMOVE TILES FROM DESIGNATED ROOM(S) AND USE THESE TO REPLACE DAMAGED CEILING TILES. ALL NEW CEILING TILES SHALL BE INSTALLED IN "DESIGNATED" ROOM(S) AT CLOSE OF PROJECT. COORDINATE "DESIGNATED" ROOM(S) WITH FACILITY ENGINEER. REPLACE TILES WITH NEW IF ACCEPTABLE TO OWNER.

GENERAL NOTES (PHASING):

THIS FACILITY AND ALL SERVICES WITHIN IS TO REMAIN FULLY OPERATIONAL.

WHEN PERFORMING WORK DURING THE FACILITY'S BUSINESS HOURS, CONTRACTOR SHALL PROVIDE METHOD OF TEMPORARY POWER AS REQUIRED TO KEEP THIS FACILITY FULLY OPERATIONAL AND SHALL IMPOSE MINIMAL IMPACT TO THE OPERATIONS OF THIS FACILITY AS DEEMED ACCEPTABLE BY THE OWNER.

PHASING IS CRITICAL FOR THE SCOPE OF WORK. CLOSELY COORDINATE WORK WITH FACILITY - MULTIPLE WORK PHASES AND WORK AT WEEKENDS AND/OR NIGHTS WILL BE REQUIRED (TYPICA). COORDINATE FACILITY'S OPERATIONAL HOURS WITH THE OWNER PRIOR TO BID.

KEYNOTES:

D1 SCOPE OF DEMOLITION WITHIN THIS OUTLINED AREA SHALL BE AS FOLLOWS: ALL EXISTING ELECTRICAL INFRASTRUCTURE TO BE DEMOLISHED SHALL BE REMOVED COMPLETELY BACK TO SOURCE. THIS INCLUDES ALL LIGHT FIXTURES, RECEPTACLES, SYSTEM DEVICES, CONDUIT, BACKBOXES, CABLING, ETC. CONDUIT THAT PENETRATES GRADE SHALL HAVE ALL WIRING REMOVED AND SHALL BE CUT/CAPPED BELOW FINISHED GRADE - ABANDON UNDERGROUND CONDUIT IN PLACE, AND PATCH AND REPAIR CONCRETE TO RESTORE INITIAL CONDITION. FIELD VERIFY EXACT REQUIREMENTS. COORDINATE PHASING OF ALL DEMOLITION WORK WITH OTHER TRADES - REFER TO PHASING NOTE ON LEGEND AND ON SHEET FOR FURTHER REQUIREMENTS.

D2 SCOPE OF DEMOLITION WITHIN THIS OUTLINED AREA SHALL BE AS FOLLOWS: ALL EXISTING ELECTRICAL INFRASTRUCTURE TO BE DEMOLISHED SHALL BE REMOVED COMPLETELY BACK TO SOURCE. THIS INCLUDES ALL RECEPTACLES, SYSTEM DEVICES, CONDUIT, BACKBOXES, CABLING, ETC. FIELD VERIFY EXACT REQUIREMENTS. COORDINATE PHASING OF ALL DEMOLITION WORK WITH OTHER TRADES - REFER TO PHASING NOTE ON LEGEND AND ON SHEET FOR FURTHER REQUIREMENTS.

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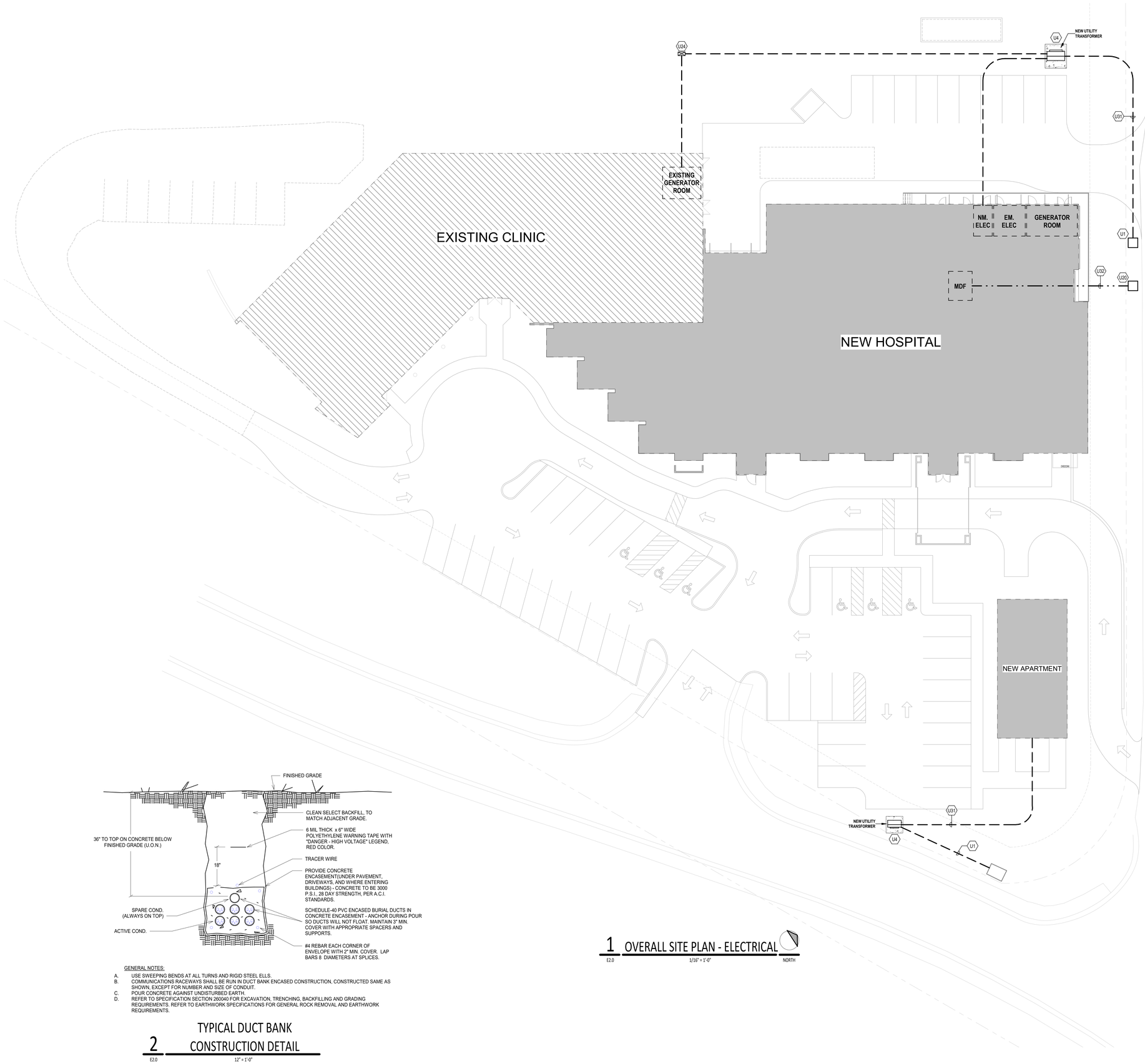
Iliuliuk Family and Health Services

SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

ELECTRICAL DEMOLITION PLANS
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

E1.1



1 E2.0 OVERALL SITE PLAN - ELECTRICAL
1/16" = 1'-0"
NORTH

GENERAL NOTES:

A. USE SWEEPING BENDS AT ALL TURNS AND RIGID STEEL ELLS.
B. COMMUNICATIONS RACEWAYS SHALL BE RUN IN DUCT BANK ENCASED CONSTRUCTION, CONSTRUCTED SAME AS SHOWN, EXCEPT FOR NUMBER AND SIZE OF CONDUIT.
C. POUR CONCRETE AGAINST UNDISTURBED EARTH.
D. REFER TO SPECIFICATION SECTION 260040 FOR EXCAVATION, TRENCHING, BACKFILLING AND GRADING REQUIREMENTS. REFER TO EARTHWORK SPECIFICATIONS FOR GENERAL ROCK REMOVAL AND EARTHWORK REQUIREMENTS.

2 E2.0 TYPICAL DUCT BANK CONSTRUCTION DETAIL
12" = 1'-0"

GENERAL NOTES (INTERCONNECTION):

A. THE CONTRACTOR SHALL VISIT SITE AND VERIFY THAT PULL BOXES AND CONDUITS MAY BE INSTALLED AS INDICATED. IF THERE IS A CONFLICT, CONTRACTOR SHALL NOTIFY ENGINEER 10 DAYS PRIOR TO BID. NO PRICE CHANGE WILL BE GIVEN FOR ANY ALTERNATE ROUTINGS OF CONDUIT AFTER THE CONTRACT HAS BEEN AWARDED. NOTIFY FACILITY ENGINEER AT LEAST 24 HOURS IN ADVANCE OF ANY VISIT.

B. ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES (WHETHER EXISTING OR NEW).

C. COORDINATE ALL WORK WITH ARCHITECTURAL/MECHANICAL PHASING AND APPROPRIATE FACILITY STAFF. WORK IN CERTAIN AREAS SHALL BE DONE ON WEEKENDS AND/OR AT NIGHT. COORDINATE ALL REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO BID.

D. COORDINATE ALL WORK WITH ARCHITECTURAL/MECHANICAL PHASING AND APPROPRIATE FACILITY STAFF. WORK IN CERTAIN AREAS SHALL BE DONE ON WEEKENDS AND/OR AT NIGHT. COORDINATE ALL REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO BID.

E. PROVIDE UL LISTED PENETRATIONS TO MATCH RATING OF WALL/FLOOR ASSEMBLY.

F. OPEN CABLING PATHWAYS ARE NOT PERMITTED ABOVE INACCESSIBLE CEILINGS OR IN AREAS WITH NO CEILINGS UNLESS OTHERWISE NOTED. PROVIDE RACEWAY FROM OUTLET BOX TO CABLE TRAY OR ACCESSIBLE CEILING.

G. COORDINATE EXACT LOCATION OF ALL SLEEVES SO THEY ARE INSTALLED ABOVE CABLE TRAYS.

H. REMOVE AND RE-INSTALL ALL CEILING TILES, HARD CEILINGS, AND/OR GRID MEMBERS AS NECESSARY TO PERFORM WORK REQUIRED. TO ENSURE NEW REPLACEMENT CEILING TILES IN AREA, THE CONTRACTOR SHALL REMOVE TILES FROM DESIGNATED ROOM(S) AND USE THESE TO REPLACE DAMAGED CEILING TILES. ALL NEW CEILING TILES SHALL BE INSTALLED IN "DESIGNATED" ROOM(S) AT CLOSE OF PROJECT. COORDINATE "DESIGNATED" ROOM(S) WITH FACILITY ENGINEER. REPLACE TILES WITH NEW IF ACCEPTABLE TO OWNER.

GENERAL NOTES (PHASING):

THIS FACILITY AND ALL SERVICES WITHIN IS TO REMAIN FULLY OPERATIONAL.

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KEYNOTES:

U1 NEW ELECTRIC SERVICE INTERCEPTED FROM UTILITY COMPANY'S POINT OF SERVICE. PROVIDE A COMPLETE INSTALLATION OF UNDERGROUND SERVICE PER UTILITY REQUIREMENTS. COORDINATE EXACT LOCATION OF POINT OF SERVICE WITH UTILITY PRIOR TO BID.

U4 PROPOSED LOCATION FOR PAD-MOUNTED SERVICE TRANSFORMER. CONTRACTOR TO CONTACT UTILITY COMPANY FOR RECOMMENDATIONS. VERIFY EXACT REQUIREMENTS WITH UTILITY COMPANY AND SPECIFICATIONS PRIOR TO ORDERING. PROVIDE INTEGRAL CT CABINET PER UTILITY SPECIFICATIONS.

U20 PROPOSED LOCATION FOR NEW TELECOM SERVICE DROP POLE. PROVIDE COMPLETE INSTALLATION PER UTILITY COMPANY REQUIREMENTS. COORDINATE EXACT SERVICE CONNECTION LOCATION AND INSTALLATION REQUIREMENTS WITH UTILITY PRIOR TO BID.

U24 PROPOSED LOCATION FOR ELECTRIC SERVICE PULLBOX/HANDHOLE. PROVIDE # OF IN-GROUND PULLBOXES/HANDHOLES AS REQUIRED TO ROUTE ELECTRIC SERVICE TO THE BUILDING. CONDUIT LENGTH AND TOTAL BENDS BETWEEN PULLBOX/HANDHOLES SHALL NOT EXCEED 500FT AND 270-DEGREES. COORDINATE EXACT LOCATION WITH OWNER AND CIVIL PRIOR TO INSTALLATION. PROVIDE CONDUIT AS INDICATED ON PLANS. INSTALL PER PULLBOX/HANDHOLE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PULLBOX COLOR TO BE SELECTED BY OWNER.

U31 NEW UNDERGROUND PRIMARY POWER SERVICE. PROVIDE NUMBER AND SIZE OF UNDERGROUND CONDUIT AS REQUIRED BY UTILITY COMPANY. PROVIDE CONCRETE ENCASEMENT WHERE ROUTED UNDER PAVEMENT/DRIVEWAYS. COORDINATE ALL WORK WITH UTILITIES AS REQUIRED TO PROVIDE COMPLETE SERVICES TO BUILDING PRIOR TO BID.

U32 TELEPHONE, TV, AND DATA SERVICES. PROVIDE SERVICES TO MAIN COMMUNICATIONS ROOM IN (3) 4" SCHEDULE #80 P.V.C. CONDUITS WITH SCHEDULE #80 P.V.C. LONG SWEEP ELBOWS. PROVIDE WITH CONCRETE ENCASEMENT WHERE ROUTED UNDER PAVEMENT/DRIVEWAYS. PROVIDE PER UTILITY COMPANY SPECIFICATIONS. COORDINATE EXACT REQUIREMENTS AND CONNECTION LOCATIONS/ROUTING WITH UTILITY SERVICE PROVIDERS PRIOR TO BID.

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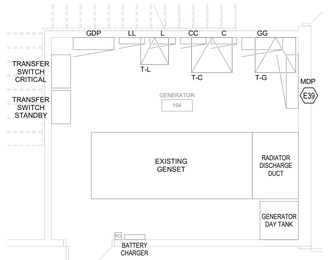
SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

ELECTRICAL SITE PLAN - POWER/SYSTEMS

IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

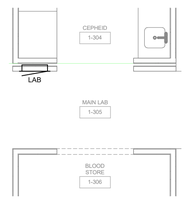
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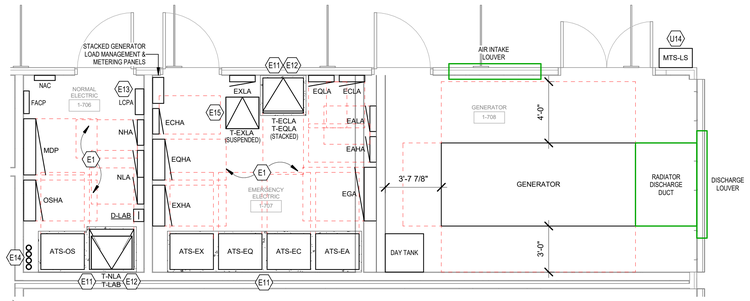
4 E6.0 ENLARGED EXISTING MAIN ELECTRICAL ROOM

1/4" = 1'-0"



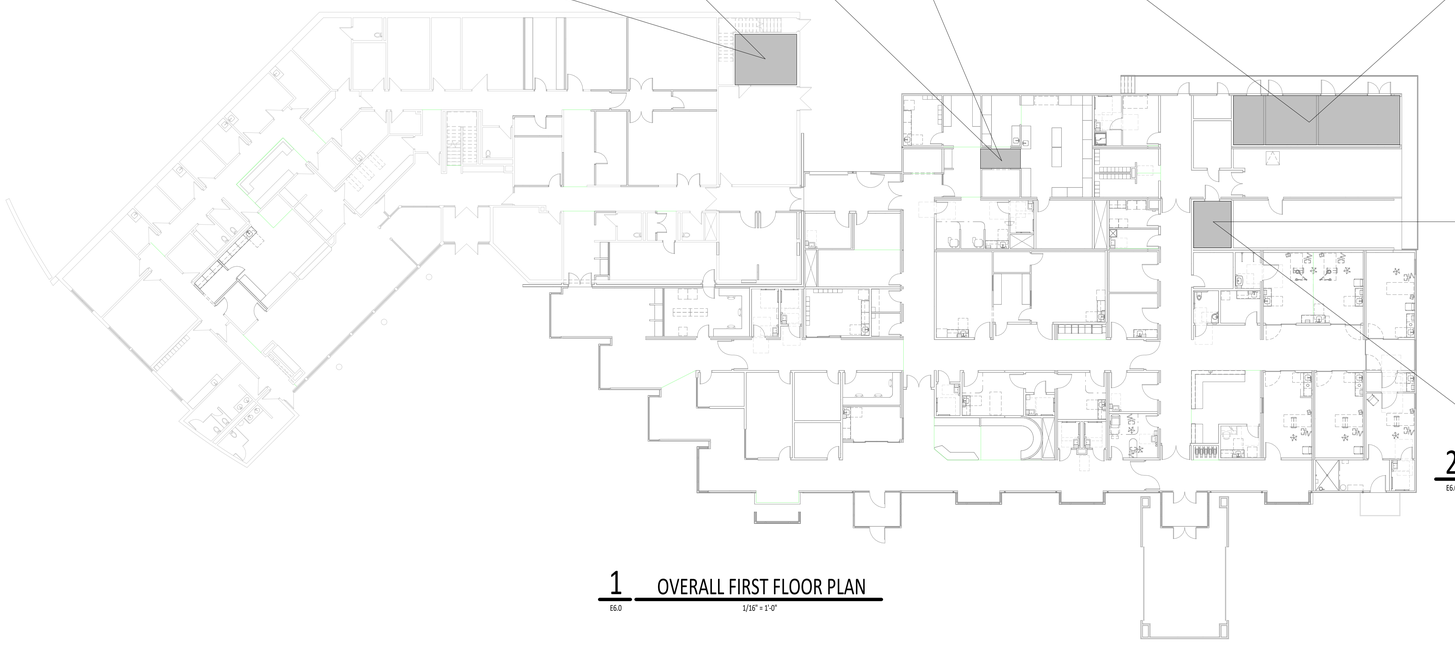
5 E6.0 ENLARGED LAB

1/4" = 1'-0"



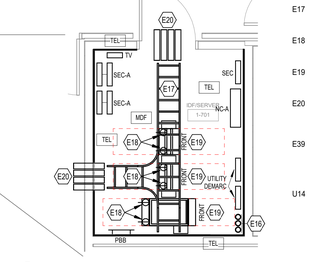
3 E6.0 ENLARGED MAIN ELECTRICAL ROOMS

1/4" = 1'-0"



1 E6.0 OVERALL FIRST FLOOR PLAN

1/16" = 1'-0"



2 E6.0 ENLARGED MDF

1/4" = 1'-0"

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GENERAL NOTES (ENLARGED AND TYPICAL):

A. ALL ROOM LAYOUTS ARE TYPICAL AND MAY VARY OR MIRROR OTHER ASSOCIATED ROOMS. CONTRACTOR SHALL REFER TO ARCHITECTURAL ELEVATIONS AND COORDINATE EACH ROOM PRIOR TO ROUGH-IN.

B. REFER TO LIGHTING, POWER, AND SYSTEMS PLANS FOR ADDITIONAL APPLICABLE GENERAL NOTES.

C. WHERE DEVICE LOCATIONS ARE INTERRUPTED BY STRUCTURAL BRACING MEMBERS IN WALLS OF PATIENT ROOMS, SHIFT DEVICES AS REQUIRED FOR INSTALLATION. ALSO, SHIFT OTHER DEVICES LOCATED ON THE SAME WALL, CORRESPONDING TO THE OTHER PATIENT BED, THE SAME DISTANCE IN THE OPPOSITE DIRECTION SO THAT DEVICES ARE SYMMETRICAL WITH CENTER OF WALL.

KEYNOTES

E1 ROUTE (1) #8 GROUND CONDUCTOR IN 1/2" CONDUIT CONTINUOUSLY AROUND ROOM (FULL CIRCLE) CONNECTING TO ALL PANELBOARD GROUND BARS IN ROOM AS REQUIRED BY N.E.C. #517-14.

E11 PROVIDE 4" TALL CONCRETE HOUSEKEEPING PAD, EXTENDED 2" BEYOND EQUIPMENT.

E12 PROVIDE FLOOR-MOUNTED TRANSFORMER WITH RACK-MOUNTED TRANSFORMER ABOVE. SEE DETAIL FOR REQUIREMENTS.

E13 LOCATE ALL LIGHTING EMERGENCY RELAYS IN THIS ELECTRICAL ROOM ON WALL INDICATED ABOVE LIGHTING CONTROL PANEL "LCPA". GROUP AND STACK RELAYS TO MINIMIZE WALL SPACE UTILIZED.

E14 SPARE CONDUITS STUBBED UP FROM SITE TO 6" ABOVE GRADE. CAP AND SEAL WATER-TIGHT AND MARK AS SPARE FOR OWNER'S USE. SEE SITE PLAN.

E15 SUSPEND TRANSFORMER FROM STRUCTURE. SEE DETAIL FOR REQUIREMENTS.

E16 STUB-UP TELECOMMUNICATIONS SERVICE CONDUITS FROM SITE TO TELEPHONE BACKBOARD. PROVIDE TELEPHONE, TV, AND DATA SERVICES TO DEMARCATION POINTS IN THIS ROOM AS REQUIRED BY OWNER AND UTILITY COMPANIES. VERIFY EXACT REQUIREMENTS WITH OWNER AND UTILITY COMPANIES PRIOR TO BID.

E17 PROVIDE 18" WIDE CABLE RUNWAY. REFER TO DETAIL AND SPECIFICATIONS FOR REQUIREMENTS.

E18 SURFACE MOUNT NEMA 5-20R SIMPLEX RECEPTACLES TO BACK SIDE OF DATA RACK, UTILIZING SURFACE MOUNTED BACKBOX AND RACEWAY.

E19 PROVIDE RACKS PER SPECIFICATIONS. ANCHOR TO FLOOR AND LOCATE FOR 3'-0" CLEARANCE ON FRONT AND BACK OF RACKS AS INDICATED.

E20 PROVIDE FOUR - 4" CONDUIT SLEEVES THROUGH WALLS INDICATED. INSTALL SLEEVES ABOVE THE SUSPENDED CEILING IN-LINE WITH J-HOOKS. REFER TO SLEEVE DETAIL FOR FURTHER REQUIREMENTS (TYPICAL).

E39 EXISTING SERVICE ENTRANCE FEEDERS SERVING THIS PANEL SHALL BE DEMOLISHED AND BE RE-FED FROM THE NEW UTILITY TRANSFORMER. PHASING IS CRITICAL FOR THIS SCOPE. SEE SITE PLANS FOR FURTHER REQUIREMENTS.

U14 GENERATOR CAMLOCK DOCKING STATION FOR TEMPORARY GENERATOR CONNECTION TO LIFE-SAFETY TRANSFER SWITCH. REFER TO RISER AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

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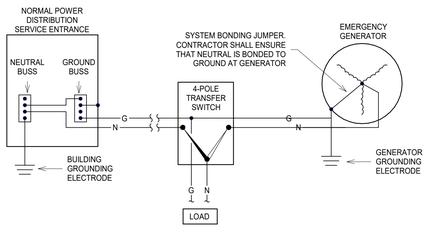
SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

INTERCONNECTION / ENLARGED ROOM PLANS

IFHS EXPANSION & RENOVATION
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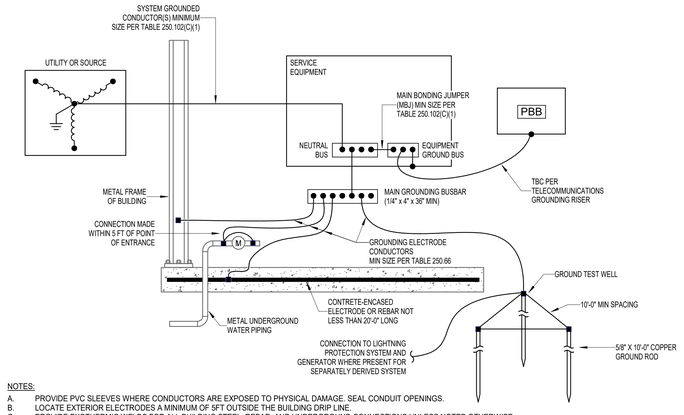
E6.0



NOTES:
A. REFER TO POWER RISER DIAGRAM FOR CONDUCTOR SIZES AND REQUIREMENTS.

GENERATOR GROUNDING DETAIL W/4P ATS

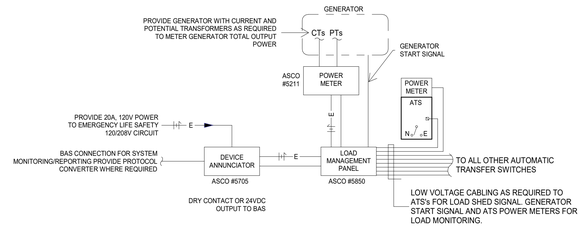
4 / E7.0 — 12" = 1'-0"



NOTES:
A. PROVIDE PVC SLEEVES WHERE CONDUCTORS ARE EXPOSED TO PHYSICAL DAMAGE. SEAL CONDUIT OPENINGS.
B. LOCATE EXTERIOR ELECTRODES A MINIMUM OF 5FT OUTSIDE THE BUILDING DRIP LINE.
C. PROVIDE EXOTHERMIC WELDS FOR ALL BUILDING STEEL, REBAR, AND UNDERGROUND CONNECTIONS UNLESS NOTED OTHERWISE.

GROUNDING ELECTRODE SYSTEM DETAIL

3 / E7.0 — 12" = 1'-0"



TRANSFER SWITCH LOAD SHEDDING SEQUENCE :

1. ATS UNITS SHALL REMAIN IN THE EMERGENCY POSITION UNTIL THE UTILITY POWER SOURCE IS RESTORED FOR A PROGRAMMED DURATION.
2. OPTIONAL STANDBY ATS SHALL ONLY TRANSFER TO EMERGENCY SOURCE AFTER THE OTHER THREE ATS UNITS HAVE ALL TRANSFERRED TO THE EMERGENCY SOURCE SUCCESSFULLY. PROVIDE 30 SECOND DEFAULT DELAY (OR AS INDICATED BY ENGINEER DURING SHOP DRAWINGS) TIME DELAY BETWEEN EQUIPMENT BRANCH ATS BEING SUCCESSFULLY BEING TRANSFERRED TO GENERATOR POWER AND OPTIONAL STANDBY ATS TRANSFERRING TO GENERATOR POWER.
3. LOAD-SHEDDING CAPABILITY AND PROGRAMMING SHALL BE PROVIDED AS INDICATED IN THE FOLLOWING SEQUENCES:
   - 3.1. THE GENERATOR LOAD REACHES 95% OF RATED OUTPUT
     - 3.1.1. PRIORITY 4: ROOF TOP UNITS "RTUs" COMPRESSOR SHED: COMPRESSORS SHALL BE SHED FROM THE SYSTEM VIA BAS IF THE GENERATOR LOAD REACHES 95% OF RATED OUTPUT AS FIRST LOAD SHEDDING OPERATION. COORDINATE INTERCONNECTION AND REQUIREMENTS WITH BAS MECHANICAL CONTRACTOR.
   - 3.2. IF AFTER STEP 3.1 THE GENERATOR LOAD REACHES OR REMAINS AT 95% OF RATED OUTPUT :
     - 3.2.1. PRIORITY 3: OPTIONAL STANDBY ATS SHALL BE AUTOMATICALLY SHED FROM THE SYSTEM.
   - 3.3. IF AFTER STEP 3.2 THE GENERATOR LOAD REACHES OR REMAINS AT 95% OF RATED OUTPUT :
     - 3.3.1. PRIORITY 2: EQUIPMENT BRANCH ATS SHALL BE AUTOMATICALLY SHED FROM THE SYSTEM.
   - 3.4. NOTE: CRITICAL BRANCH AND LIFE SAFETY BRANCH ATS SHALL BE PROGRAMMED AS PRIORITY #1 AND SHALL NEVER SHED FROM THE SYSTEM
   - 3.5. ATS UNITS THAT HAVE BEEN SHED SHALL NOT AUTOMATICALLY ADD THEMSELVES BACK TO THE EMERGENCY POWER SYSTEM (BUT ALLOW THE USER TO DO SO EASILY FROM ATS CONTROL) UNTIL THE GENERATOR HAS COMPLETELY SHUTOFF, ALL TRANSFER SWITCHES HAVE RETURNED TO NORMAL SOURCE 1 POSITION AND THE EMERGENCY POWER SEQUENCE HAS STARTED AGAIN.
   - 3.6. LOAD TRANSFER AND LOAD SHED DURATIONS SHALL BE AS COORDINATED WITH THE ENGINEER - TIME DELAYS BETWEEN ALL STEPS AND OPERATIONS SHALL BE POSSIBLE AND CONFIGURABLE. CONFIRM DURING SHOP DRAWINGS.

GENERAL NOTES :

A. THIS DETAIL IS FOR DIAGRAMMATIC PURPOSES ONLY. PROVIDE ALL COMPONENTS, CABLING, AND PROGRAMMING AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.

B. PROVIDE COMPLETE ATS ANNUNCIATOR AND LOAD MANAGEMENT SYSTEMS. PROVIDE POWER METERS COMPATIBLE WITH LOAD MANAGEMENT NETWORK TO ACCOMPLISH LOAD MANAGEMENT FUNCTIONALITY.

C. REFER TO SPECIFICATION 250400 FOR FURTHER BAS INTEGRATION REQUIREMENTS. PROVIDE ALL CABLING AND COMPONENTS REQUIRED FOR BAS INTEGRATION. COORDINATE WITH TEMPERATURE CONTROLS CONTRACTOR PRIOR TO BID TO ENSURE ALL COMPONENTS AND INTERCONNECTIONS ARE PROVIDED REQUIRED FOR A COMPLETE SYSTEM.

D. AWARDED CONTRACTOR SHALL PROVIDE SCALED FACTORY SHOP DRAWINGS FOR CONTROLS LAYOUTS INDICATING ALL DEVICES AND WIRING FOR REVIEW.

E. PROVIDE (2) 8 HOUR TRAINING SESSIONS ON SITE, IN A CLASSROOM SETTING, FOR TRAINING OF THE OWNER'S STAFF IN OPERATION, PROGRAMMING, AND MAINTENANCE OF THE POWER MONITORING SYSTEM. TRAINING SHALL BE CONDUCTED BY A CERTIFIED MANUFACTURER'S REPRESENTATIVE. CONTRACTOR SHALL VIDEO RECORD TRAINING SESSIONS AND PROVIDE DIGITAL VIDEO FILES TO THE OWNER ON USB FLASH DRIVE MEDIA.

POWER MONITORING & LOAD SHEDDING DETAIL

2 / E7.0 — 12" = 1'-0"

GENERAL NOTES (RISER):

A. REFER TO SPECIFICATIONS FOR CONDUCTOR REQUIREMENTS. FEEDERS 200A AND LARGER SHALL BE ALUMINUM ALLOY. ALL OTHER SHALL BE COPPER.

B. PROVIDE ENGRAVED LAMACOID LABELS FOR ALL POWER DISTRIBUTION EQUIPMENT FURNISHED OR MODIFIED IN THIS PROJECT, LABELS PER DETAILS AND SPECIFICATIONS.

C. SERVICE EQUIPMENT SHALL BE MARKED WITH THE MAXIMUM AVAILABLE FAULT-CURRENT AT THE EQUIPMENT AND THE DATE THE CALCULATION WAS PERFORMED. APPLY A TYPE-WRITTEN ADHESIVE LABEL WITH WHITE BACKGROUND, 1/2" HIGH BLACK LETTERING.

D. CONTRACTOR SHALL INSTALL SEPARATE CONDUITS, PULL BOXES, ETC. FOR EACH EMERGENCY POWER BRANCH & NORMAL POWER PER NEC FOR COMPLETE SEPARATION OF POWER SERVICES.

E. ALL CIRCUIT BREAKERS AND/OR DISCONNECTS SERVING THE PRIMARY SIDE OF A TRANSFORMER WHICH ARE NOT WITHIN SITE OF THE TRANSFORMER SHALL BE PROVIDED WITH PERMANENTLY INSTALLED MEANS TO LOCK THE BREAKER IN THE OFF POSITION. SUCH TRANSFORMERS SHALL HAVE THE ROOM NAME AND NUMBER OF THE PRIMARY DISCONNECTING MEANS ENGRAVED ON THE EQUIPMENT NAMEPLATE.

F. ALL INDICATED VALUES FOR AVAILABLE SHORT CIRCUIT CURRENT (SCA) AND SHORT CIRCUIT CURRENT RATING (SCCR) ARE PRELIMINARY AND SHALL BE CONFIRMED BY POWER SYSTEM STUDY. REFER TO SPECIFICATIONS FOR SHORT-CIRCUIT, COORDINATION AND ARC FLASH POWER SYSTEM STUDY REQUIREMENTS.

G. ALL SPARE BREAKERS SHALL BE SO LABELED IN CIRCUIT DIRECTORIES AND SHALL BE LEFT IN OFF POSITION.

H. MINIMAL PANEL MOUNTING SPACE IS NOTED ON DRAWINGS AND SCHEDULES. ALL MOUNTING SPACE SHALL BE PREPARED TO ACCEPT FUTURE BREAKERS.

I. NO CONDUIT SHALL BE INSTALLED UNDERGROUND, EXCEPT FOR DISTRIBUTION EQUIPMENT FEEDERS, UNLESS REQUIRED FOR THE APPLICATIONS (FLOOR BOXES, ISLANDING, ETC.) OR SPECIFICALLY INDICATED AS SUCH IN CONSTRUCTION DOCUMENTS. NO CONDUIT SHALL BE INSTALLED WITHIN CONCRETE SLABS.

J. REFER TO SPECIFICATIONS FOR ARC FLASH AND RELATED POWER SYSTEM STUDY REQUIREMENTS.

K. EMERGENCY POWER SYSTEM COMPONENTS SHALL INCLUDE ALL POWER SYSTEM PROTECTIONS REQUIRED BY THE UTILITY FOR DELAYED TRANSITION ATS FUNCTION AND PARALLELING OF POWER SYSTEMS FOR LESS THAN 100 MILLISECONDS. ALL EQUIPMENT, PROTECTIONS, AND SEQUENCES OF OPERATION MUST BE SUBMITTED TO AND APPROVED BY THE UTILITY COMPANY. DOCUMENTATION OF UTILITY COMPANY ACCEPTANCE SHALL BE INCLUDED IN SHOP DRAWING SUBMITTALS.

L. WHERE CONFLICT EXIST BETWEEN PRELIMINARY POWER STUDY DIAGRAMS AND CURVES AND DESIGN DRWAINGS, THE MORE STRINGENT REQUIREMENT SHALL PREVAIL.

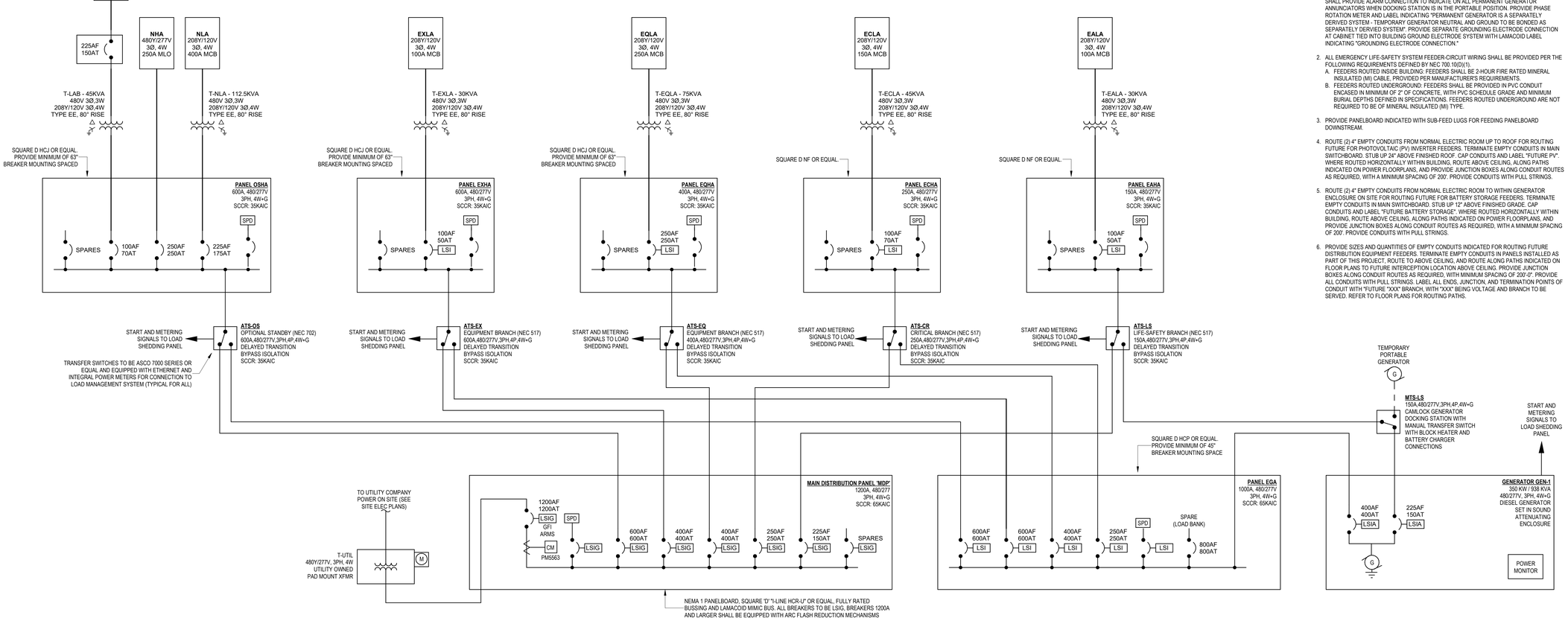
M. LIFE-SAFETY, CRITICAL, AND EQUIPMENT BRANCH CIRCUIT BREAKERS SHALL BE SELECTIVELY COORDINATED FOR THE PERIOD OF TIME THAT A FAULT'S DURATION EXTENDS BEYOND 0.1 SECONDS AS REQUIRED BY NEC AND LOCAL CODE. PROVIDE ELECTRONIC TRIP CIRCUIT BREAKERS AS REQUIRED AND REFER TO POWER SYSTEM STUDY SPECIFICATIONS SECTION.

N. ESSENTIAL ELECTRICAL SYSTEM TO BE SEPARATELY DERIVED. REFER TO GENERATOR GROUNDING DETAIL FOR 4-POLE ATS UNITS.

O. POWER METER TO BE INTEGRATED WITH BUILDING AUTOMATION SYSTEM (BAS). BAS TO TRACK THE FOLLOWING TRENDS. REFER TO SPECIFICATIONS SECTION 250400 FOR REQUIREMENTS.
   - a. TOTAL BUILDING LOAD (MSB)
   - b. TOTAL GENERATOR EMERGENCY LOAD (FORMULA = ATS-OS + ATS-EQ + ATS-CR + ATS-LS)
   - c. ATS-OS
   - d. ATS-EQ
   - e. ATS-CR
   - f. ATS-LS

TAGGED NOTES (RISER):

1. PROVIDE PORTABLE GENERATOR CABINET FOR BACKUP OF THE LIFE-SAFETY BRANCH DURING OUTAGES ON THE PERMANENT GENERATOR. CABINET SHALL INCLUDE 20A/1P/120V AND 30A/2P/208V RECEPTACLES FOR TEMPORARY GENERATOR ACCESSORIES. CONNECTED TO SAME CIRCUITS SERVING FACILITY GENSET BLOCK HEATER AND BATTERY CHARGER. CABINET SHALL PROVIDE ALARM CONNECTION TO INDICATE ON ALL PERMANENT GENERATOR ANNUNCIATORS WHEN DOCKING STATION IS IN THE PORTABLE POSITION. PROVIDE PHASE ROTATION METER AND LABEL INDICATING "PERMANENT GENERATOR IS A SEPARATELY DERIVED SYSTEM - TEMPORARY GENERATOR NEUTRAL AND GROUND TO BE BONDED AS SEPARATELY DERVIED SYSTEM". PROVIDE SEPARATE GROUNDING ELECTRODE CONNECTION AT CABINET TIED INTO BUILDING GROUND ELECTRODE SYSTEM WITH LAMACOID LABEL INDICATING "GROUNDING ELECTRODE CONNECTION."
2. ALL EMERGENCY LIFE-SAFETY SYSTEM FEEDER-CIRCUIT WIRING SHALL BE PROVIDED PER THE FOLLOWING REQUIREMENTS DEFINED BY NEC 700.10(D)(1).
   - A. FEEDERS ROUTED INSIDE BUILDING: FEEDERS SHALL BE 2-HOUR FIRE RATED MINERAL INSULATED (MI) CABLE. PROVIDED PER MANUFACTURER'S REQUIREMENTS.
   - B. FEEDERS ROUTED UNDERGROUND: FEEDERS SHALL BE PROVIDED IN PVC CONDUIT ENCASED IN MINIMUM OF 2" OF CONCRETE, WITH PVC SCHEDULE GRADE AND MINIMUM BURIAL DEPTHS DEFINED IN SPECIFICATIONS. FEEDERS ROUTED UNDERGROUND ARE NOT REQUIRED TO BE OF MINERAL INSULATED (MI) TYPE.
3. PROVIDE PANELBOARD INDICATED WITH SUB-FEED LUGS FOR FEEDING PANELBOARD DOWNSTREAM.
4. ROUTE (2) 4" EMPTY CONDUITS FROM NORMAL ELECTRIC ROOM UP TO ROOF FOR ROUTING FUTURE FOR PHOTOVOLTAIC (PV) INVERTER FEEDERS. TERMINATE EMPTY CONDUITS IN MAIN SWITCHBOARD. STUB UP 24" ABOVE FINISHED ROOF. CAP CONDUITS AND LABEL "FUTURE PV". WHERE ROUTED HORIZONTALLY WITHIN BUILDING, ROUTE ABOVE CEILING, ALONG PATHS INDICATED ON POWER FLOORPLANS, AND PROVIDE JUNCTION BOXES ALONG CONDUIT ROUTES AS REQUIRED, WITH A MINIMUM SPACING OF 200'. PROVIDE CONDUITS WITH PULL STRINGS.
5. ROUTE (2) 4" EMPTY CONDUITS FROM NORMAL ELECTRIC ROOM TO WITHIN GENERATOR ENCLOSURE ON SITE FOR ROUTING FUTURE FOR BATTERY STORAGE FEEDERS. TERMINATE EMPTY CONDUITS IN MAIN SWITCHBOARD. STUB UP 12" ABOVE FINISHED GRADE. CAP CONDUITS AND LABEL "FUTURE BATTERY STORAGE". WHERE ROUTED HORIZONTALLY WITHIN BUILDING, ROUTE ABOVE CEILING, ALONG PATHS INDICATED ON POWER FLOORPLANS, AND PROVIDE JUNCTION BOXES ALONG CONDUIT ROUTES AS REQUIRED, WITH A MINIMUM SPACING OF 200'. PROVIDE CONDUITS WITH PULL STRINGS.
6. PROVIDE SIZES AND QUANTITIES OF EMPTY CONDUITS INDICATED FOR ROUTING FUTURE DISTRIBUTION EQUIPMENT FEEDERS. TERMINATE EMPTY CONDUITS IN PANELS INSTALLED AS PART OF THIS PROJECT, ROUTE TO ABOVE CEILING, AND ROUTE ALONG PATHS INDICATED ON FLOOR PLANS TO FUTURE INTERCEPTION LOCATION ABOVE CEILING. PROVIDE JUNCTION BOXES ALONG CONDUIT ROUTES AS REQUIRED, WITH MINIMUM SPACING OF 200'-0". PROVIDE ALL CONDUITS WITH PULL STRINGS. LABEL ALL ENDS. JUNCTION, AND TERMINATION POINTS OF CONDUIT WITH "FUTURE "XXX" BRANCH, WITH "XXX" BEING VOLTAGE AND BRANCH TO BE SERVED. REFER TO FLOOR PLANS FOR ROUTING PATHS.



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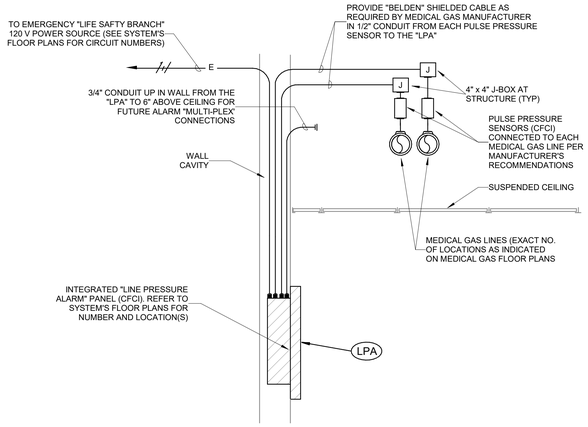
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SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

ELECTRICAL RISER DIAGRAM
IFHS EXPANSION & RENOVATION
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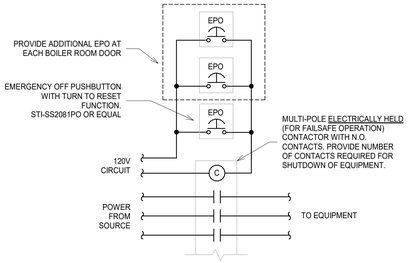
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TYPICAL MEDICAL GAS / LINE PRESSURE DETAIL

1 E8.0 — 12" = 1'-0"

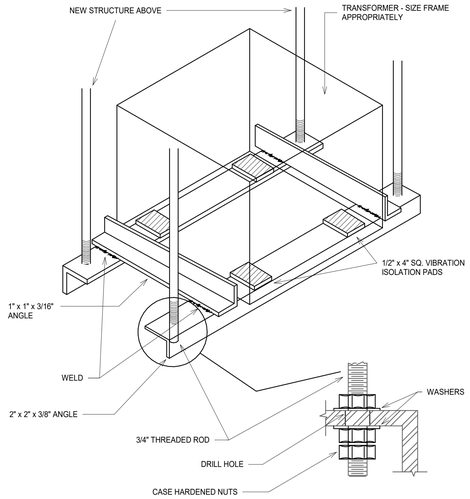


NOTES:

1. ALL BOILER EMERGENCY SHUTDOWN DEVICES TO BE INSTALLED IN ACCORDANCE WITH CURRENT EDITION OF ASME CSD-1.
2. PROVIDE EPO WITH INDOOR/OUTDOOR PROTECTIVE COVER AND SOUNDER.
3. PROVIDE #12 CONTROL WIRING IN DEDICATED RACEWAY TO EPO(S).
4. SEQUENCE OF OPERATION:
   - A. UNDER NORMAL CONDITIONS THE CONTACTOR COIL IS ENERGIZED AND ALL CONTACTS IN THE CONTACTOR ARE CLOSED ALLOWING THE EQUIPMENT TO BE POWERED.
   - B. ACTIVATION: DEPRESSING ANY EPO BUTTON DE-ENERGIZES THE CONTACTOR COIL AND OPENS ALL CONTACTS TO REMOVE POWER TO THE EQUIPMENT.
   - C. RESET: EPO BUTTON TWIST RESET FUNCTION RE-ENERGIZES THE CONTACTOR COIL AND CLOSES ALL CONTACTS.
   - D. FAIL-SAFE OPERATION: POWER OR WIRING FAILURE IN THE EMERGENCY OFF SYSTEM WILL DE-ENERGIZE THE BOILERS.

BOILER EMER SHUT DOWN-CONTACTOR

2 E8.0 — 12" = 1'-0"



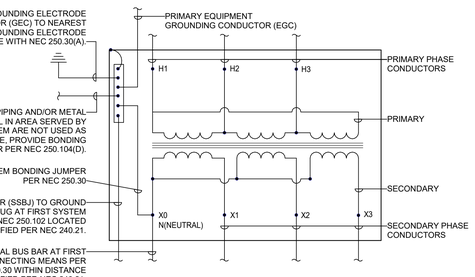
GENERAL NOTES

A. THE FINAL 12" TO 18" OF RACEWAY CONNECTION TO BOTH PRIMARY AND SECONDARY SIDES SHALL BE "SEALTITE" TYPE UA FLEXIBLE CONDUIT OR EQUAL, FOR VIBRATION ISOLATION.

B. THIS DETAIL ONLY APPLIES TO DRY-TYPE TRANSFORMERS UP TO 45 KVA.

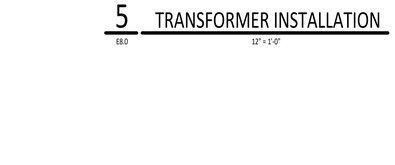
SUSPENDED DRY-TYPE TRANSFORMER INSTALLATION

8 E8.0 — 12" = 1'-0"



DETAIL OF TYPICAL MOTOR/STARTER INSTALLATION

3 E8.0 — 12" = 1'-0"



GENERAL NOTES:

A. CONTRACTOR SHALL COORDINATE BACKGROUND COLOR WITH EXISTING FACILITY'S COLOR SCHEME. IN GENERAL, NORMAL POWER PANELS SHALL HAVE BLACK BACKGROUND WITH WHITE LETTERS. EMERGENCY PANELS SHALL HAVE RED BACKGROUND WITH WHITE LETTERS UNLESS DIRECTED OTHERWISE BY OWNER.

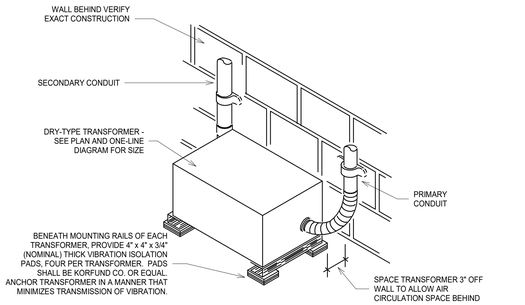
B. DETAIL SHALL APPLY TO ALL INDIVIDUALLY MOUNTED CIRCUIT BREAKERS, PANEL BOARDS, SWITCHBOARDS, SAFETY SWITCHES, DISCONNECTS, VFD, MOTOR STARTERS, ETC. SEE SPECIFICATIONS.

TYPICAL EQUIPMENT NAMEPLATE DETAIL

4 E8.0 — 12" = 1'-0"

TRANSFORMER (DRY-TYPE) GROUNDING DETAIL

7 E8.0 — 12" = 1'-0"

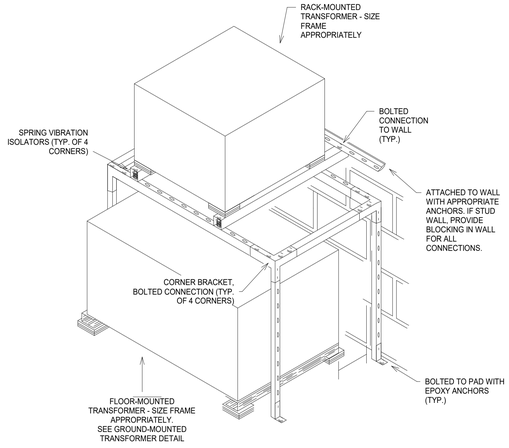


NOTE:
THE FINAL 12" TO 18" OF RACEWAY CONNECTION TO BOTH PRIMARY AND SECONDARY SIDES SHALL BE "SEALTITE" TYPE UA FLEXIBLE CONDUIT OR EQUAL, FOR VIBRATION ISOLATION.

NOTE:
ALL FLOOR - MOUNTED TRANSFORMERS 75KVA AND HIGHER TO HAVE A 4" HIGH REINFORCED CONCRETE PAD.

DETAIL OF TYPICAL DRY-TYPE TRANSFORMER INSTALLATION

5 E8.0 — 12" = 1'-0"



GENERAL NOTES :

A. THE FINAL 12" TO 18" OF RACEWAY CONNECTION TO BOTH PRIMARY AND SECONDARY SIDES SHALL BE "SEALTITE" TYPE UA FLEXIBLE CONDUIT OR EQUAL, FOR VIBRATION ISOLATION.

B. REFER TO OTHER TRANSFORMER MOUNTING DETAILS FOR FURTHER REQUIREMENTS.

C. PROVIDE FRAME SIZE AS REQUIRED TO MAINTAIN MANUFACTURER'S REQUIRED CLEARANCES ON ALL SIDES OF TRANSFORMER, 6" MINIMUM.

D. EXACT CONNECTIONS, ANCHORS, ETC. SHALL BE PER UNI-STRUT MANUFACTURER'S RECOMMENDATIONS.

E. MAXIMUM WEIGHT FOR RACK-MOUNTED TRANSFORMER IS 800LBS. WHERE LARGER TRANSFORMERS ARE INDICATED TO BE RACK-MOUNTED, THE CONTROACTOR SHALL EMPLOY A STRUCTURALA ENGINEER TO DESIGN A SPECIFIC RACK FOR THE APPLICATION.

TRANSFORMER RACK MOUNTED DETAIL

6 E8.0 — 12" = 1'-0"

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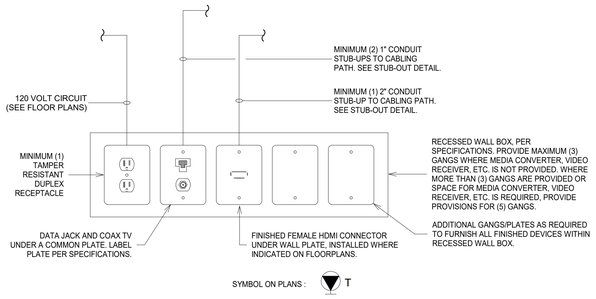
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ELECTRICAL DETAILS

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E8.0



GENERAL NOTES :

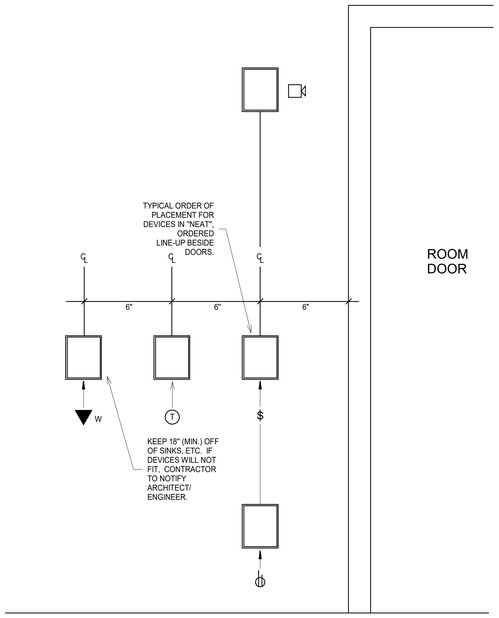
A. COORDINATE WITH TV WALL SUPPORT BRACKET. VERIFY EXACCT MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS.

B. ALL DEVICES INSTALLED WITHIN RECESSED WALL BOX TO BE INSTALLED WITH FINISHED PLATES/CONNECTORS. PASS-THRU WALL PLATES ARE NOT PERMITTED.

C. REFER TO SPECIFICATIONS SECTION 274133 FOR ADDITIONAL INSTALLTION REQUIREMENTS.

2 TELEVISION OUTLET INSTALLATION DETAIL

E8.1 — 12" = 1'-0"

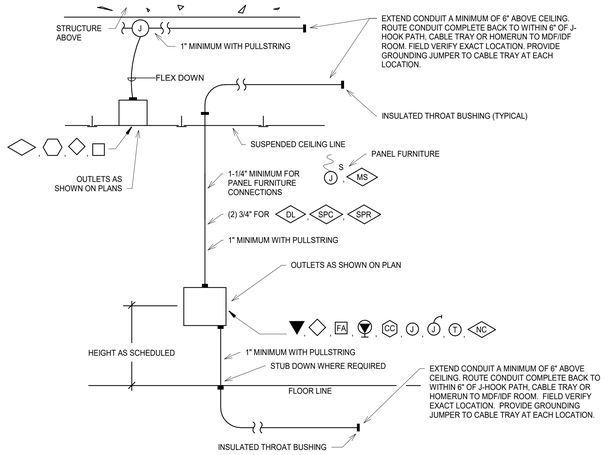


GENERAL NOTES:

A. ALL DEVICES ON THE PROJECT SHALL LINE UP VERTICALLY AND HORIZONTALLY. IF DISCREPANCIES ARISE, NOTIFY THE ENGINEER PRIOR TO INSTALLATION SO RESOLUTION CAN BE DETERMINED.

5 OUTLET COORDINATION DETAIL

E8.1 — 12" = 1'-0"



NOTES:

A. EXTEND CONDUIT TO NEAREST WIRING PATH UNLESS CABLING TERMINATES AT ANOTHER OUTLET IN THE SAME ROOM (IN WHICH CASE, STUB CONDUIT OUT ABOVE THE ROOM'S SUSPENDED CEILING). REFER TO GENERAL NOTES LOCATED ON ALL SYSTEM'S DRAWINGS. ACCESS CONTROL CONDUITS SHALL STUB ABOVE ACCESSIBLE CEILING FOR VENDOR FURNISHED ACCESS CONTROL CABLING, ETC.

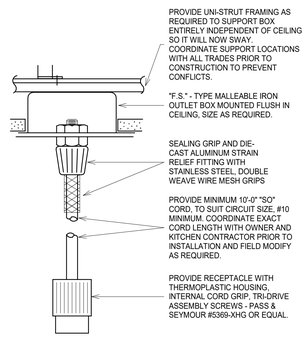
B. WHERE OPEN CABLING IS INSTALLED WITHIN ENVIRONMENT AIR PLENUMS, SUCH CABLING SHALL MEET NEC REQUIREMENTS FOR SUCH INSTALLATIONS.

C. LABEL BACK OF OUTLET BOXES AND ENDS OF CONDUIT WITH UNIQUE NUMBER TO IDENTIFY EACH STUB-UP. USE PERMANENT MARKER PEN, 3/4" HIGH LETTERS. MATCH NUMBER ON OUTLET BOX TO END OF CONDUIT

D. INSTALL TELECOMMUNICATION AND CABLE TV OUTLETS WITHIN 6" OF POWER RECEPTACLE WHERE POWER RECEPTACLE IS SHOWN ON POWER PLANS IN SAME GENERAL LOCATION.

1 ROUGHING-IN DETAIL FOR STUB-OUTS

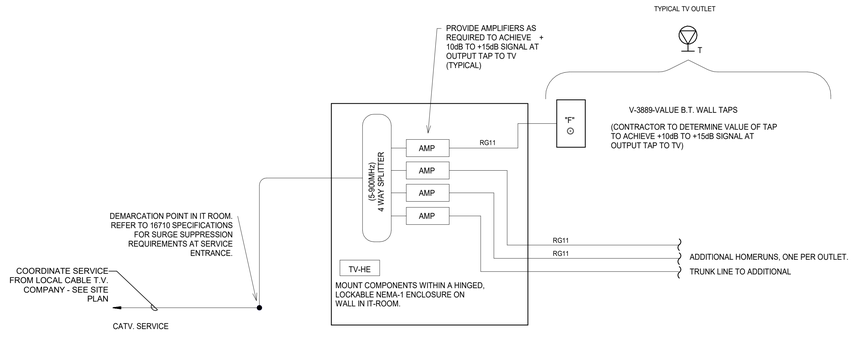
E8.1 — 12" = 1'-0"



NOTE: COORDINATE PLUG AND CORD COLOR WITH ARCHITECT PRIOR TO ORDERING.

6 TYPICAL CEILING OUTLET DROP DETAIL

E8.1 — 12" = 1'-0"



GENERAL NOTES:

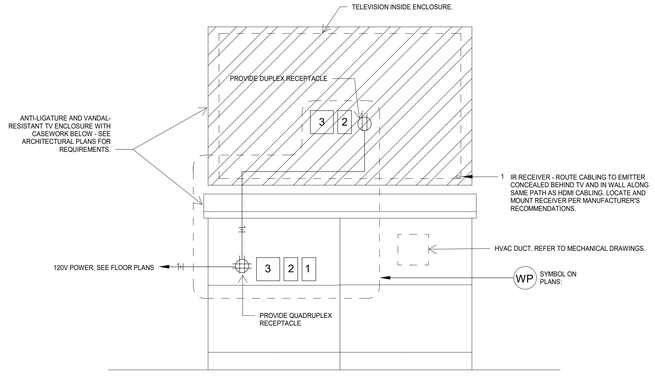
A. TV SERVICE AND INTERNAL BUILDING WIRING TO COMPLY WITH CONWAY CORPORATION

B. REQUIREMENTS. COORDINATE WITH CONWAY CORP. AND OBTAIN APPROVAL OF SHOP

C. DRAWINGS FROM CONWAY CORP. PRIOR TO CONSTRUCTION.

3 TELEVISION SYSTEM SCHEMATIC DIAGRAM

E8.1 — 12" = 1'-0"



EQUIPMENT

DESIGNATOR	DESCRIPTION
1	PROVIDE I.R. REMOTE REPEATER SYSTEM TO RECEIVE REMOTE CONTROL SIGNALS AT TV AND TRANSMIT TO A/V EQUIPMENT IN CABINET BELOW. PROVIDE CONNECTING BLOCK PLATE, EMITTERS, POWER SUPPLY AND RECEIVER AS REQUIRED. IR RECEIVER SHALL BE MOUNTED TO TV BEZEL AS REQUIRED WITH ALL WIRING CONCEALED. RUSSOUND SLM-1K UNIVERSAL SURFACE MOUNT IR KIT OR EQUAL.
2	PROVIDE COAX TV HOMERUN AND DATA HOMERUN WITH FINISHED CONNECTOR AND WALL PLATE.
3	PROVIDE (4) 4K HDMI CONNECTIONS FROM TV TO CASEWORK WITH FEMALE CONNECTORS AT BOTH ENDS.

1. PROVIDE COVER PLATES WITH PERMANENT LABELS AT ALL WALL PLATES DESCRIBING USE AND DESTINATION OF CABLING. ENGRAVE PLATE IN PATIENT ACCESSIBLE AREAS.
2. CONTRACTOR SHALL PROVIDE CABLING BETWEEN ALL DEVICES. ALL CABLING SHALL BE ROUTED IN 3/4" CONDUIT MINIMUM.
3. ALL WALLPLATES AND CABLING SHALL BE SUBMITTED IN SHOP DRAWINGS FOR REVIEW PRIOR TO ORDERING AND PRODUCTION.
4. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL SYSTEM.
5. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT DEVICE LOCATIONS/HEIGHTS.
6. ALL A/V DEVICES, CABLING, CONNECTORS, ETC. SHALL BE LEVITON, HUBBEL, OR EQUIVALENT.

4 TELEVISION MULTIMEDIA SYSTEM DETAIL

E8.1 — 12" = 1'-0"

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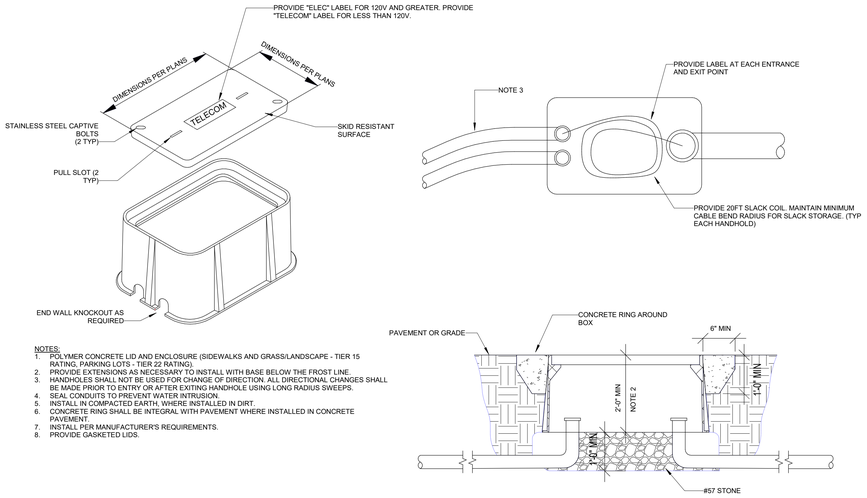
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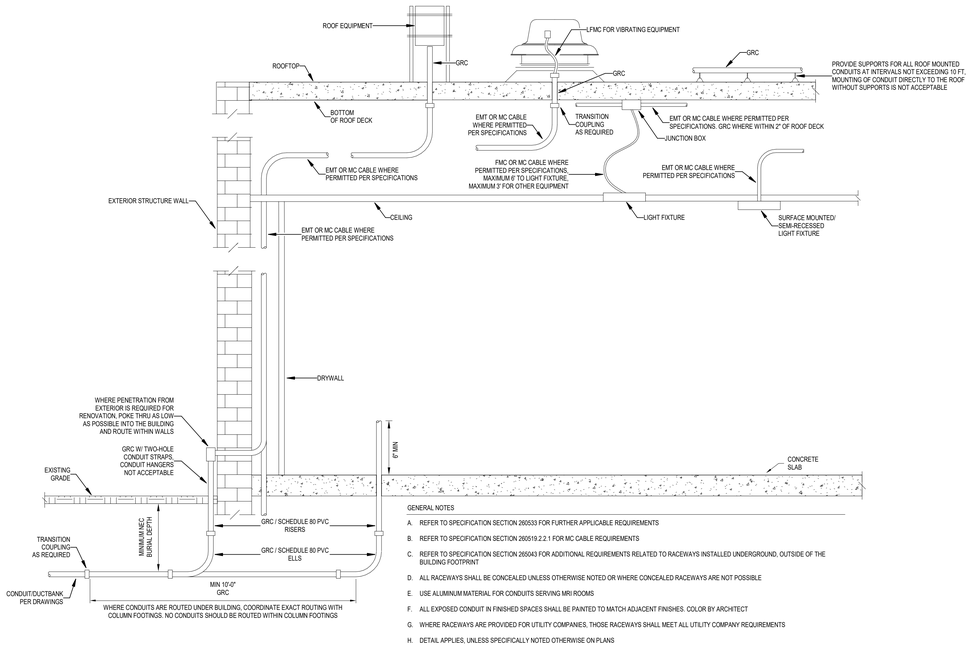
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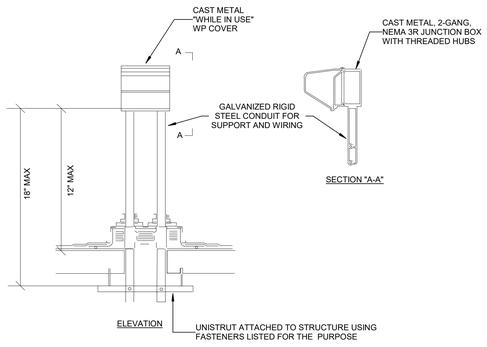
NOTES:
1. POLYMER CONCRETE LID AND ENCLOSURE (SIDEWALKS AND GRASS/LANDSCAPE - TIER 15 RATING, PARKING LOTS - TIER 22 RATING).
2. PROVIDE EXTENSIONS AS NECESSARY TO INSTALL WITH BASE BELOW THE FROST LINE.
3. HANDHOLES SHALL NOT BE USED FOR CHANGE OF DIRECTION. ALL DIRECTIONAL CHANGES SHALL BE MADE PRIOR TO ENTRY OR AFTER EXITING HANDHOLE USING LONG RADIUS SWEEPS.
4. SEAL CONDUITS TO PREVENT WATER INTRUSION.
5. INSTALL IN COMPACTED EARTH, WHERE INSTALLED IN DIRT.
6. CONCRETE RING SHALL BE INTEGRAL WITH PAVEMENT WHERE INSTALLED IN CONCRETE PAVEMENT.
7. INSTALL PER MANUFACTURER'S REQUIREMENTS.
8. PROVIDE GASKETED LIDS.

3 PULL BOX DETAIL
E8.2 — 1 : 6



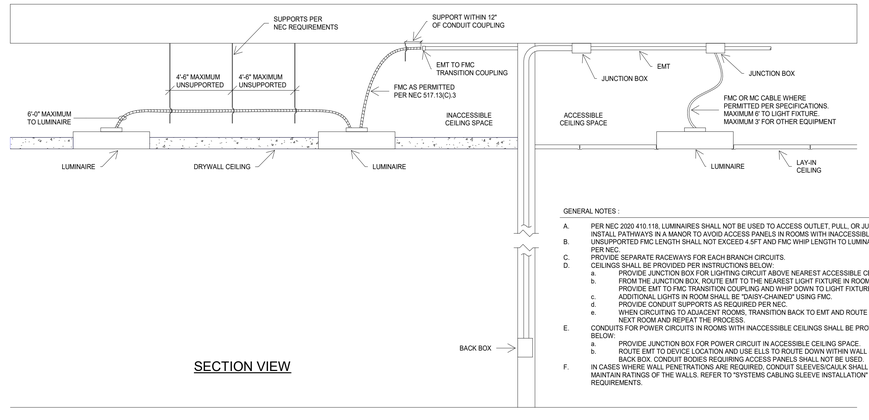
GENERAL NOTES
- A. REFER TO SPECIFICATION SECTION 260533 FOR FURTHER APPLICABLE REQUIREMENTS
- B. REFER TO SPECIFICATION SECTION 260519 2.2.1 FOR MC CABLE REQUIREMENTS
- C. REFER TO SPECIFICATION SECTION 260543 FOR ADDITIONAL REQUIREMENTS RELATED TO RACEWAYS INSTALLED UNDERGROUND, OUTSIDE OF THE BUILDING FOOTPRINT
- D. ALL RACEWAYS SHALL BE CONCEALED UNLESS OTHERWISE NOTED OR WHERE CONCEALED RACEWAYS ARE NOT POSSIBLE
- E. USE ALUMINUM MATERIAL FOR CONDUITS SERVING MRI ROOMS
- F. ALL EXPOSED CONDUIT IN FINISHED SPACES SHALL BE PAINTED TO MATCH ADJACENT FINISHES. COLOR BY ARCHITECT
- G. WHERE RACEWAYS ARE PROVIDED FOR UTILITY COMPANIES, THOSE RACEWAYS SHALL MEET ALL UTILITY COMPANY REQUIREMENTS
- H. DETAIL APPLIES, UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS

1 TYPICAL CONDUIT TYPES DETAIL
E8.2 — 12" = 1'-0"



GENERAL NOTES
- A. COORDINATE FLASHING INSTALLATION WITH ROOFING CONTRACTOR TO ENSURE PROPER METHODS & MATERIALS ARE USED TO MAINTAIN ROOF WARRANTY AND INSULATION R-VALUE

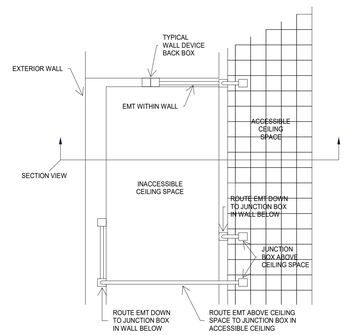
4 RECEPTACLE ROOF MOUNTING DETAIL
E8.2 — 12" = 1'-0"



SECTION VIEW

GENERAL NOTES :
- A. PER NEC 2020 410.118, LUMINAIRES SHALL NOT BE USED TO ACCESS OUTLET, PULL, OR JUNCTION BOXES OR CONDUITS. INSTALL PATHWAYS IN A MANOR TO AVOID ACCESS PANELS IN ROOMS WITH INACCESSIBLE CEILINGS.
- B. UNSUPPORTED FMC LENGTH SHALL NOT EXCEED 4.5FT AND FMC WHIP LENGTH TO LUMINAIRES SHALL NOT EXCEED 6FT PER NEC.
- C. PROVIDE SEPARATE RACEWAYS FOR EACH BRANCH CIRCUITS.
- D. CEILINGS SHALL BE PROVIDED PER INSTRUCTIONS BELOW:
  - a. PROVIDE JUNCTION BOX FOR LIGHTING CIRCUIT ABOVE NEAREST ACCESSIBLE CEILING SPACE.
  - b. FROM THE JUNCTION BOX, ROUTE EMT TO THE NEAREST LIGHT FIXTURE IN ROOM WITH DRYWALL CEILING. PROVIDE EMT TO FMC TRANSITION COUPLING AND WHIP DOWN TO LIGHT FIXTURE BELOW WITH FMC.
  - c. ADDITIONAL LIGHTS IN ROOM SHALL BE "DAISY-CHAINED" USING FMC.
  - d. PROVIDE CONDUIT SUPPORTS AS REQUIRED PER NEC.
  - e. WHEN CIRCUITING TO ADJACENT ROOMS, TRANSITION BACK TO EMT AND ROUTE TO NEAREST LIGHT FIXTURE IN NEXT ROOM AND REPEAT THE PROCESS.
- E. CONDUITS FOR POWER CIRCUITS IN ROOMS WITH INACCESSIBLE CEILINGS SHALL BE PROVIDED PER INSTRUCTIONS BELOW:
  - a. PROVIDE JUNCTION BOX FOR POWER CIRCUIT IN ACCESSIBLE CEILING SPACE.
  - b. ROUTE EMT TO DEVICE LOCATION AND USE ELLS TO ROUTE DOWN WITHIN WALL SPACE WITH EMT TO DEVICE BACK BOX. CONDUIT BODIES REQUIRING ACCESS PANELS SHALL NOT BE USED.
- F. IN CASES WHERE WALL PENETRATIONS ARE REQUIRED, CONDUIT SLEEVES/CAULK SHALL BE PROVIDED AS NEEDED TO MAINTAIN RATINGS OF THE WALLS. REFER TO "SYSTEMS CABLING SLEEVE INSTALLATION" DETAIL FOR FURTHER REQUIREMENTS.

2 INACCESSIBLE CEILING CONDUIT INSTALLATION DETAIL
E8.2 — 12" = 1'-0"



PLAN VIEW

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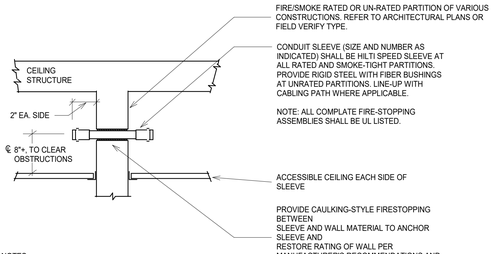
SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

ELECTRICAL DETAILS

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E8.2



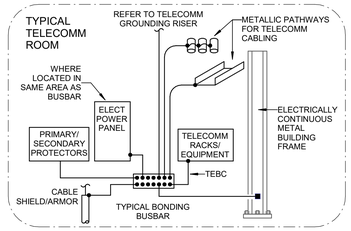
GENERAL NOTES:

A. USE AT ALL "OPEN" TYPE CABLING PENETRATIONS THROUGH WALLS, FLOORS, ETC.

B. IF THE SLEEVE SIZE AND NUMBER INDICATED ON PLANS WILL NOT BE ADEQUATE TO CONTAIN ALL CABLES AND STILL LEAVE 25% SPARE CAPACITY, PROVIDE ADDITIONAL SLEEVES AS NEEDED TO PROVIDE THIS SPARE CAPACITY.

1 SYSTEMS CABLING SLEEVE INSTALLATION

E8.3 — 12" = 1'-0"



NOTES:

A. ALL WORK TO BE DONE IN ACCORDANCE WITH ANSI/TIA STD-607-C

B. ALL GROUNDING AND BONDING CONDUCTORS SHALL BE GREEN INSULATED COPPER CONDUCTORS AND LISTED FOR INTENDED APPLICATION.

C. LABEL ALL GROUNDING AND BONDING CONDUCTORS IN ACCORDANCE WITH ANSI/TIA/EIA 606 REQUIREMENTS.

D. ALL CONNECTIONS SHALL BE EXOTHERMIC WELD, LISTED COMPRESSION TWO-HOLE LUGS, OR OTHER IRREVERSIBLE COMPRESSION TYPE CONNECTION.

E. ALL METALLIC RACEWAYS FOR TELECOMM CABLING SHALL BE BONDED TO BUSBAR IF LOCATED IN SAME ROOM OR AREA.

F. WHERE THE OSP OR BACKBONE CABLING INCORPORATES A SHIELD OR METALLIC ARMOR, IT SHALL BE BONDED TO THE BUSBAR WHERE THE CABLES ARE TERMINATED OR WHERE THE PAIRS ARE BROKEN OUT FROM THE CABLE SHEATH.

G. BONDING CONDUCTOR TO BUILDING STEEL SHALL BE SIZED TO MATCH BACKBONE CONDUCTOR. OTHER BONDING CONDUCTORS SHALL BE A MINIMUM #6 AWG AND INSTALLED WITH A MINIMUM 8-INCH BEND RADIUS.

H. BONDING CONDUCTORS FOR ENTRANCE PROTECTORS AND CABLE SHIELDING CAPABLE OF CONDUCTING LIGHTNING AND FAULT CURRENTS SHALL MAINTAIN A MINIMUM OF 1FT SEPARATION FROM ALL TELECOMM CABLING.

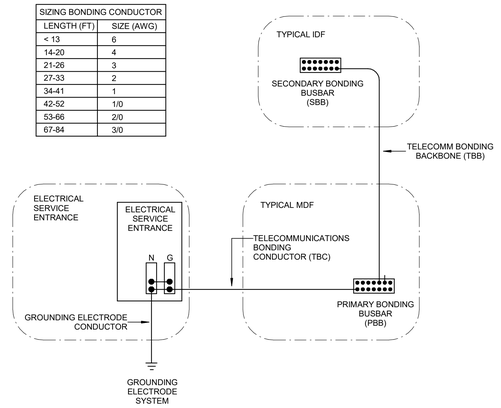
I. ALL GROUNDING/BONDING CONDUCTORS ROUTED THROUGH ENVIRONMENTAL AIR PLENUMS SHALL BE ROUTED IN METALLIC CONDUIT.

J. ALL METALLIC CONDUIT FOR GROUNDING/BONDING CONDUCTORS SHALL BE BONDED TO THE PBB/SBB AT BOTH ENDS, USING A LISTED BONDING BUSHING.

2 TELECOMM BUSBAR CONNECTIONS

E8.3 — 12" = 1'-0"

SIZING BONDING CONDUCTOR	
LENGTH (FT)	SIZE (AWG)
< 13	6
14-20	4
21-26	3
27-33	2
34-41	1
42-52	1/0
53-66	2/0
67-84	3/0



NOTES:

A. ALL WORK TO BE DONE IN ACCORDANCE WITH ANSI/TIA STD-607-C

B. LOCATE PBB IN TELECOMM ENTRANCE FACILITY TO MINIMIZE LENGTH OF TBC. MAXIMUM LENGTH IS 30FT. SHALL BE AT MINIMUM SAME SIZE AS TBB.

C. ALL GROUNDING AND BONDING CONDUCTORS SHALL BE GREEN INSULATED COPPER CONDUCTORS AND LISTED FOR INTENDED APPLICATION.

D. LABEL ALL GROUNDING AND BONDING CONDUCTORS IN ACCORDANCE WITH ANSI/TIA-606 REQUIREMENTS.

E. ALL CONNECTIONS TO THE PBB/SBB AND TBB SHALL BE EXOTHERMIC WELD, LISTED COMPRESSION TWO-HOLE LUGS, OR OTHER IRREVERSIBLE COMPRESSION TYPE CONNECTION.

F. TBBs SHALL BE CONTINUOUS FROM THE PBB TO THE FURTHEST SBB.

G. WHERE TWO OR MORE TBBs ARE USED WITHIN A MULTISTORY BUILDING, A BBC SHALL BE USED AT THE TOP FLOOR AND EVERY 3RD FLOOR IN BETWEEN.

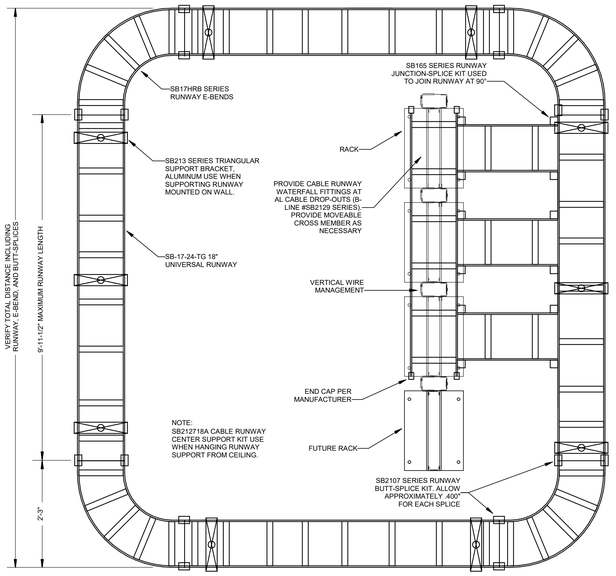
H. ROUTE TELECOMMUNICATIONS BONDING CONDUCTORS ALONG SIDE OF PRIMARY CABLE PATHWAY. PROVIDE A LISTED CABLE SUPPORT (J-HOOK OR SIMILAR) ATTACHED TO THE SIDE OF CABLE TRAY. IN THE CASE WHERE J-HOOKS ARE PRESENT AS THE ONLY PRIMARY CABLING PATH, PROVIDE A SEPARATE TIERED J-HOOK FOR ROUTING TELECOMMUNICATIONS BONDING CONDUCTORS. PROVIDE A MINIMUM 2" CLEARANCE FROM ALL POWER AND TELECOMMUNICATIONS CABLES.

I. ALL GROUNDING/BONDING CONDUCTORS ROUTED THROUGH ENVIRONMENTAL AIR PLENUMS SHALL BE ROUTED IN METALLIC CONDUIT.

J. ALL METALLIC CONDUIT FOR GROUNDING/BONDING CONDUCTORS SHALL BE BONDED TO BE PBB/SBB AT BOTH ENDS, USING A LISTED BONDING BUSHING.

3 TELECOMM GROUNDING RISER - MULTI FLOOR

E8.3 — 12" = 1'-0"



GENERAL NOTES :

A. PROVIDE B-LINE UNIVERSAL CABLE RUNWAY (SB-17-24-TG), AND INDICATED ACCESSORIES, SIZED PER DRAWINGS.

B. SUPPORT ACCESSORIES AND HARDWARE ARE TO BE SUPPLIED AS COMPLETE KITS BY RUNWAY MANUFACTURER.

C. ALL DETAILS ON THIS DRAWING ARE DETAILS OF TYPICAL INSTALLATION AND MAY VARY. FOLLOW MANUFACTURER'S INSTALLATION GUIDELINES.

D. PROVIDE RADIUS DROPS WHERE CABLING DROPS OR ENTERS THE RUNWAY.

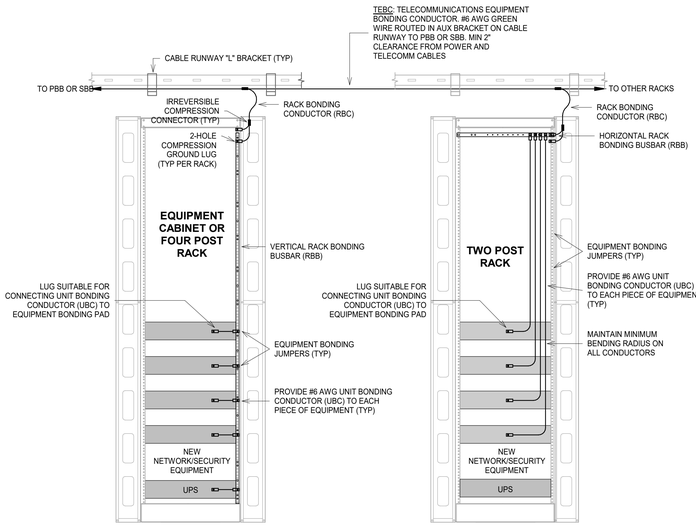
E. PROVIDE BONDING STRAP BETWEEN ALL SECTIONS.

F. ROUTE POWER AND BONDING CONDUCTORS ON AUXILIARY 'L' BRACKET ATTACHED TO SIDE OF RUNWAY.

G. ALL CABLES IN RUNWAY SHALL BE IN 24 CABLE BUNDLES WRAPPED WITH VELCRO HOOK AND LOOP CABLE TIES. ALL CABLES IN BUNDLE SHALL TERMINATE TO SAME PATCH PANEL.

5 TELECOMMUNICATIONS CABLE RUNWAY DETAIL

E8.3 — 12" = 1'-0"



REAR OF RACK OR CABINET

GENERAL NOTES:

A. SERIES OR DAISY CHAIN CONNECTED EQUIPMENT BONDING CONDUCTORS ARE PROHIBITED.

B. TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR (TEBC) SHALL MAINTAIN A MINIMUM BENDING RADIUS OF EIGHT (8) INCHES.

C. TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR (TEBC) SHALL BE SEPARATED BY A MINIMUM OF 2 INCHES FROM POWER OR TELECOMM CABLE GROUPS AND MOUNTED TO BOTTOM OR SIDE OF CABLE RUNWAY WITH CABLE BRACKETS SPACED AT MAXIMUM 3 FT INTERVALS.

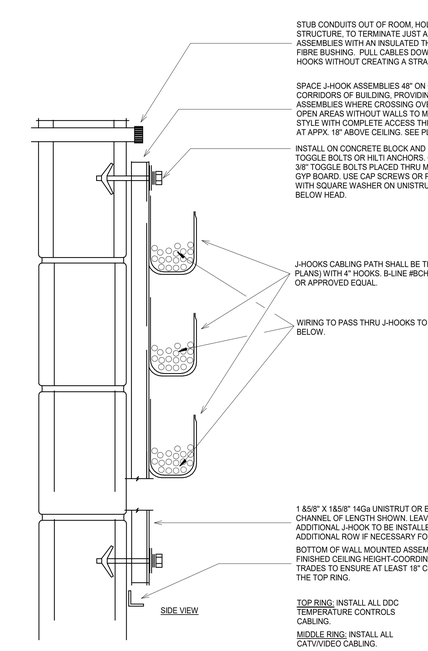
D. IF NETWORK EQUIPMENT DOES NOT INCLUDE BONDING PAD, BOND EQUIPMENT EARS TO RACK/CABINET USING BONDING CAGE NUT.

E. ALL GROUNDING/BONDING CONDUCTORS ROUTED THROUGH ENVIRONMENTAL AIR PLENUMS SHALL BE ROUTED IN METALLIC CONDUIT.

F. ALL METALLIC CONDUIT FOR GROUNDING/BONDING CONDUCTORS SHALL BE BONDED TO THE PBB/SBB AT BOTH ENDS, USING A LISTED BONDING BUSHING.

4 TELECOMM RACK GROUND BUS BAR DETAIL (RBB)

E8.3 — 1" = 1'-0"



6 J-HOOK INSTALLATION DETAIL

E8.3 — 12" = 1'-0"

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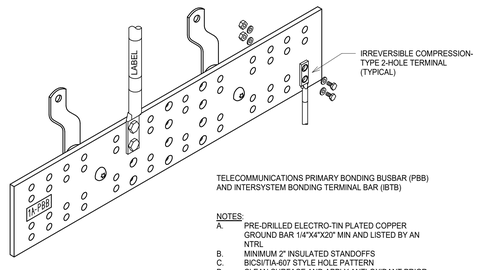
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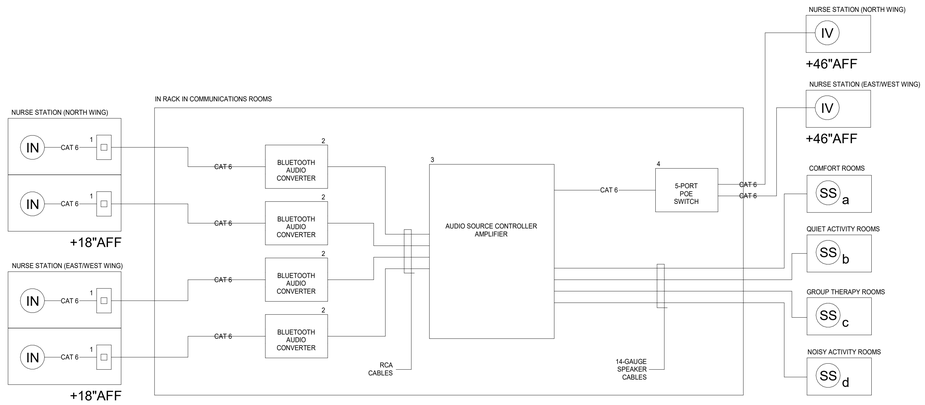
E8.3



TELECOMMUNICATIONS PRIMARY BONDING BUSBAR (PBB)
AND INTERSYSTEM BONDING TERMINAL BAR (IBTB)

NOTES:
A. PRE-DRILLED ELECTRO-TIN PLATED COPPER GROUND BAR 1/4"X4"X20" MIN AND LISTED BY AN NTRL
B. MINIMUM 2" INSULATED STANDOFFS
C. BICSI/TIA-607 STYLE HOLE PATTERN
D. CLEAN SURFACE AND APPLY ANTI-OXIDANT PRIOR TO FASTENING OF CONDUCTORS.
E. PROVIDE IDENTIFICATION FOR GROUND BAR AND GROUNDING CONDUCTORS IN ACCORDANCE WITH TIA/EIA-606-B.

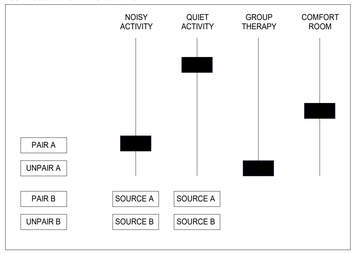
3 GROUND BAR - PBB
E8.4 — 1" = 1'-0"



LOCAL SOUND SYSTEMS DEVICES:

DESIGNATOR	DESCRIPTION AND SPEC
IV	PROVIDE REMOTE DIGITAL AUDIO CONTROLLER WITH LCD TOUCHSCREEN FOR CHANNEL OUTPUT SELECTION, CHANNEL INPUT SELECTION, AND VOLUME CONTROL. AT MINIMUM, THE DIGITAL AUDIO CONTROLLER SHALL BE CAPABLE OF DISPLAYING THE CONTROL FORMAT SHOWN ON THIS DETAIL. RUSSOUND XTS7 OR EQUIVALENT.
SS	PROVIDE CEILING SPEAKER WITH VANDAL RESISTANT ROUND PERFORATED WHITE METAL BAFFLE. ATLASIED FAP40T OR EQUIVALENT.
IN	PROVIDE (2) BLUETOOTH AUDIO RECEIVERS AT EACH LOCATION SHOWN ON PLANS FOR INPUTS TO SOUND SYSTEM CONTROLLER. RUSSOUND #BTC-2X WITH BSK-2 BLUETOOTH SOURCE KIT OR EQUIVALENT.
1	PROVIDE RJ-45 CAT 6 OUTLET LOCATED AT INDICATED NURSE STATION.
2	PROVIDE BLUETOOTH AUDIO CONVERTER AT LOCATION INDICATED. RUSSOUND #BTC-2X WITH BSK 2 BLUETOOTH SOURCE KIT OR EQUAL
3	PROVIDE RACK MOUNTED AUDIO CONTROLLER AMPLIFIER AT IDF's. SYSTEM SHALL BE CAPABLE OF PLAYING MUSIC FROM ANY INPUT STATION "IN" TO ANY OUTPUT CHANNEL IN ANY ROOM. THE INPUT AND OUTPUT SHALL BE SELECTABLE AT THE VOLUME STATION "IV". THE AUDIO CONTROLLER SHALL BE CAPABLE OF RECEIVING A PAGING INPUT WHERE WHEN A PAGE IS INITIATED, THE SYSTEM SOURCES WILL BE OVERRIDDEN TO SOUND THE PAGE AT FULL VOLUME. MCA-66 OR EQUAL.
4	PROVIDE 5 PORT POE SWITCH AT LOCATION INDICATED. CRESTRON CEN-SW-POE-5.

CONTROLLER DISPLAY AT NURSE STATION



SYMBOL ON PLANS: IV IN SS

GENERAL NOTES
1. ACCEPTABLE MANUFACTURERS: RUSSOUND, SYMETRIX, QSC, AND ATLAS-IED.
2. PROVIDE COVER PLATES WITH PERMANENT LABELS AT ALL WALL PLATES DESCRIBING USE AND DESTINATION OF CABLING. ENGRAVE PLATE IN PATIENT ACCESSIBLE AREAS.
3. CONTRACTOR SHALL PROVIDE CABLING BETWEEN ALL DEVICES. ALL CABLING SHALL BE ROUTED IN 3/4" CONDUIT MINIMUM IN WALLS AND ABOVE DRY WALL CEILINGS. UTILIZE J-HOOK SUPPORTS AOBVE LAY IN CEILINGS.
4. ALL WALLPLATES AND CABLING SHALL BE SUBMITTED IN SHOP DRAWINGS FOR REVIEW PRIOR TO ORDERING AND PRODUCTION.
5. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL SYSTEM.
6. SPEAKER QUANTITIES AND LOCATIONS ON PLANS ARE PROPOSED MINIMUMS. CONTRACTOR TO PROVIDE ACTUAL SYSTEM DESIGN, INCLUDING THE NECESSARY QUANTITIES AND LOCATIONS OF SPEAKERS, AS REQUIRED TO ACHIEVE A MINIMUM SPEECH TRANSMISSION INDEX (STI) OF 0.50 OR A COMMON INTELLIGIBILITY SCALE (CIS) RATING OF 0.70 AT REPRESENTATIVE POINTS IN THE AREA OF COVERAGE TO PROVIDE ACCEPTABLE INTELLIGIBILITY FROM THE LOCAL SOUND SYSTEM. THE LOCAL SOUND SYSTEM SHALL BE INCLUDED AS PART OF THE CALCULATION AND MODELING FOR THE PAGING SYSTEM DESIGN.

4 LOCAL SOUND SYSTEM DETAIL AND SCHEMATIC
E8.4 — 12" = 1'-0"

	RACK #1 (MDF - Server Rack 4-Post)	RESPONSIBILITY
1	Access Control Server	CFCI
2		
3	Surveillance Server	CFCI
4		
5	Paging/Music System Controller	CFCI
6		
7	Paging/Music System Amplifier	CFCI
8		
9	Paging/Music System Amplifier	CFCI
10		
11	IP-PBX VoIP Switch for Paging/Music System	CFCI
12		
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50	2.2 kVA UPS	OFOI
51		

---VERTICAL CABLE MANAGEMENT AND POWER DISTRIBUTION STRIPS---

	RACK #2 (MDF - 2-Post)	RESPONSIBILITY
1		
2		
3	Fiber Enclosure	CFCI
4		
5	48-Port Copper Voice Service Entrance Patch Panel	CFCI
6		
7	48-Port Copper Voice Service Entrance Patch Panel	CFCI
8		
9		
10	48-Port Voice patch panel for 50-Pair Backbone to IDF A	CFCI
11	48-Port Voice patch panel for 50-Pair Backbone to IDF B	CFCI
12		
13	48-Port Voice patch panel for 50-Pair Backbone to IDF C	CFCI
14		
15	48-Port Voice patch panel for 50-Pair Backbone to IDF D	CFCI
16		
17	48-Port Network Switch	OFOI
18	48-Port Cat 6 Patch Panel	CFCI
19		
20	Space	CFCI
21	48-Port Network Switch	OFOI
22	48-Port Cat 6 Patch Panel	CFCI
23		
24	Space	CFCI
25	48-Port Network Switch	OFOI
26	48-Port Cat 6 Patch Panel	CFCI
27		
28	Space	CFCI
29	48-Port Security/Intercom Network Switch	CFCI
30	48-Port Cat 6 Security/Intercom Patch Panel	CFCI
31		
32	Space	CFCI
33		
34		
35		
36		
37		
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50	2.2 kVA UPS	OFOI
51		

---VERTICAL CABLE MANAGEMENT AND POWER DISTRIBUTION STRIPS---

Space for Owner's Equipment — OFOI

Space for Owner's Equipment — OFOI

1 TYPICAL MDF RACK ELEVATION
E8.4 — 1/8" = 1'-0"

TELECOMMUNICATIONS RACK EQUIPMENT REQUIREMENTS:

A. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL COMPONENTS AS REQUIRED FOR COMPLETE AND OPERATIONAL SYSTEMS.

B. TERMINATE ALL DATA DROPS SERVING INTERCOM AND SURVILLANCE SYSTEMS (CAMERAS, INTERCOM DEVICES, ETC.) TO PATCH PANELS AND NETWORK SWITCHES INDICATED SPECIFICALLY TO SERVE THE INTERCOM AND SURVEILLANCE SYSTEMS. DEVICES FROM OTHER SYSTEMS SHALL NOT BE TERMINATED WITHIN THESE DESIGNATED PATCH PANELS AND NETWORK SWITCHES.

C. PROVIDE RACKS AS REQUIRED FOR ALL OWNER EQUIPMENT AND OTHER LOW VOLTAGE SYSTEMS EQUIPMENT. PROVIDE RACK SPACE ADEQUATE FOR ALL EQUIPMENT, PLUS 20% SPARE CAPACITY.

D. COORDINATE EXACT LOCATION OF ALL OWNER-FURNISHED EQUIPMENT IN RACKS WITH OWNER PRIOR TO CONSTRUCTION. PROVIDE RACK ELEVATIONS WITH SHOP DRAWINGS WHICH IDENTIFY ALL PROPOSED EQUIPMENT LOCATIONS FOR ALL CONTRACTOR-FURNISHED SYSTEMS. INDICATE LOCATIONS OF ALL WIRE MANAGEMENT, UPS's, SURGE PROTECTORS, AND ALL OTHER ACCESSORIES IN SHOP DRAWINGS.

E. ALL RACKS SHALL HAVE VERTICAL CABLE MANAGEMENT AS REQUIRED FOR ALL CABLING.

F. PROVIDE COMPLETE SHOP DRAWINGS LAYOUTS OF EACH MDF AND IDF, INDICATING ALL EQUIPMENT AND CABLE MANAGEMENT LOCATIONS. ALL LAYOUTS ARE SUBJECT TO OWNER APPROVAL.

G. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.

GENERAL NOTES (TELECOMMUNICATIONS RISER) :

A. TERMINATE ALL NEW FIBER IN NEW FIBER ENCLOSURES IN RACKS INDICATED ON FLOOR PLANS AT EACH NODE LOCATION. ALL NEW FIBER STRANDS SHALL BE TERMINATED.

B. LABEL ALL CONDUIT ACCORDING TO INSTALLED CABLE SERVICE. PROVIDE CONDUIT CHART INDICATING CONDUIT NUMBER AND INSTALLED CABLE TYPES/SERVICES FOR ALL PRIMARY CABLING PATH CONDUITS. LABEL CONDUITS WITH ENGRAVED LAMACOID TAGS, MECHANICALLY FASTENED AT BOTH ENDS. COORDINATE NAMING AND FORMAT WITH OWNER AND ENGINEER PRIOR TO CONSTRUCTION.

C. LABEL ALL CABLES WHERE EXPOSED IN COMMUNICATIONS ROOMS, PULLPOINTS, ETC. ADDITIONALLY, LABEL ALL CABLES AT BOTH ENDS.

D. EXTEND ALL SERVICE PROVIDED COPPER BACKBONE FROM UTILITY DEMARC TO RACK-MOUNTED RJ-45 VOICE SERVICE ENTRANCE PATCH PANELS IN MAIN COMMUNICATIONS ROOM(S) USING MULTI-PAIR CABLE(S).

E. TERMINATE ALL COPPER BACKBONE FROM MAIN COMMUNICATIONS ROOM(S) DIRECTLY TO RACK-MOUNTED RJ-45 VOICE PATCH PANELS IN SECONDARY COMMUNICATIONS ROOM(S) USING MULTI-PAIR CABLE(S).

TAGGED NOTES :

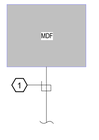
1. NEW UNDERGROUND FIBER OPTIC AND COPPER VOICE SERVICE FROM SITE COORDINATE EXACT REQUIREMENTS WITH UTILITY PRIOR TO BID.

TELECOMMUNICATIONS RISER LINE LEGEND

NEW BACKBONE CABLING

NEW BACKBONE NODE

NEW CABLE PATCH



TELECOMMUNICATIONS RISER FIBER SCHEDULE :

A — 12-STRAND FIBER OPTIC CABLE

B — (1) 50-PAIR COPPER CABLE

C — 24 STRAND FIBER OPTIC CABLE - ALTERNATE #E-3

2 TELECOMMUNICATIONS RISER DIAGRAM
E8.4 — 12" = 1'-0"

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IFH2402

E8.4

FIRE ALARM SYMBOL LEGENDS

DESCRIPTION	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
FIRE ALARM		
MAIN CONTROL PANEL CENTRAL PROCESSING UNIT (CPU)	6'-6" TO TOP	FACP
PULL STATION : DOUBLE ACTION	46" TO LEVER	F
KEY-OPERATED STATION SHALL ONLY BE OPRABLE VIA KEY IN POSSESSION OF STAFF (NO HANDLE).	46" TO LEVER	F K
AUDIO/VISUAL NOTIFICATION APPLIANCE	CLG	F
AUDIO-ONLY NOTIFICATION APPLIANCE	CLG	A
VISUAL-ONLY NOTIFICATION APPLIANCE	CLG	S
WALL MOUNTED AUDIO/VISUAL NOTIFICATION APPLIANCE. WALL MOUNTED VISUAL- ONLY NOTIFICATION APPLIANCE	90"	F W' S W
BELL / LIGHT	90"	BL
BELL ONLY	90"	B
PHOTO-ELECTRIC SMOKE DETECTOR	CLG	SD
PHOTO-ELECTRIC SMOKE DETECTOR FOR PATIENT ROOM MONITORING (SEE RISER)	CLG	SD P
PHOTO-ELECTRIC SMOKE DETECTOR/HEAT DETECTOR FOR ELEVATOR CONTROL.		SD EL ; HD EL
HEAT DETECTOR	CLG	HD
CARBON MONOXIDE DETECTOR	CLG	CO
CARBON MONOXIDE ALARM: SINGLE STATION W/SOUNDER BASE	CLG	CM
CARBON MONOXIDE AUDIO/VISUAL NOTIFICATION APPLIANCE	WALL	F CM
DOOR HOLDER : WALL TYPE	WALL	DH
DOOR HOLDER : CLOSURE TYPE	ABV DOOR	DH C
DUCT SMOKE DETECTOR	ABV CLG	DD
CONNECTION TO SPRINKLER FLOW SWITCH WITH ADDRESSABLE MODULE		FS
CONNECTION TO SPRINKLER TAMPER SWITCH WITH ADDRESSABLE MODULE		TS
PRESSURE SWITCH		PS
REMOTE L.C.D. FIRE ALARM ANNUNCIATOR	54"	FAA
POST INDICATOR VALVE		PIV
POWER SUPPLY/CONTROL FOR AUDIO/VISUAL DEVICES	54"	NAC
GRAPHICS DISPLAY TERMINAL		GDT
ISOLATION MODULE	WALL	I
ZONE ADDRESSABLE MODULE		Z
H.V.A.C. SMOKE DAMPER CONNECTION		SM
FLUSH MOUNTED REMOTE ALARM INDICATING STATION/TEST SWITCH	7'-6"	RI
FIREMAN'S PHONE JACK		FP
ADDRESSABLE RELAY MODULE		R
VANDAL-PROOF POLYCARBONATE COVER. VANDAL PROOF COVERS SHALL BE UL LISTED FOR USE WITH THE SPECIFIC DEVICE THEY ARE PROTECTING		PC

ABBREVIATIONS	MOUNTING HEIGHT (TO CENTER OF BOX)	DRAWING SYMBOL
UNLESS OTHERWISE NOTED		UON
OWNER FURNISHED CONTRACTOR INSTALLED		OFCI
OWNER FURNISHED OWNER INSTALLED		OFOI
CONTRACTOR FURNISHED CONTRACTOR INSTALLED		CFCI
CONTRACTOR FURNISHED OWNER INSTALLED		CFOI
INDICATES EMERGENCY POWER		EM
INDICATES MOUNTING HEIGHT OF 46"		W
INDICATES WALL PHONE WITH TWO LUG PLATE. MOUNTING HEIGHT OF 46"		WL
INDICATES MOUNTING ABOVE COUNTER-TOP, 2" ABOVE BACKSPLASH, NO HIGHER THAN 48"		C
INDICATES CEILING MOUNT		CLG
WIREGUARD - PROVIDE MANUFACTURER'S SPECIFIC GUARD FOR DEVICE NOTED		WG
WEATHERPROOF - NEMA-3R, WET LOCATION LISTED. PROVIDE COVERS, RATINGS, ETC, AS SUITABLE FOR OUTDOORS.		WP
EXPLOSION PROOF - PROVIDE WIRING METHODS, ENCLOSURES, RATINGS, ETC. AS SUITABLE FOR HAZARDOUS LOCATION.		XP
MISCELLANEOUS		
CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE. ARROW(S) INDICATE(S) HOME RUN.S # OF CIRCUITS: HASHMARKS INDICATE # OF CONDUCTORS, DASHED LINE INDICATES CONDUIT BELOW FLOOR.		GROUND NEUTRAL PHASE

SYSTEM RESPONSIBILITY MATRIX — SYSTEM	ITEM USED ON PROJECT	DEVICES - O F O I	DEVICES - O F C I	DEVICES - C F C I	CABLING/CONDUCTORS - O F O I	CABLING/CONDUCTORS - O F C I	CABLING/CONDUCTORS - C F C I	SYSTEM SYMBOL
FIRE ALARM	●			●			●	□

APPLICABLE CODES AND STANDARDS

BUILDING OCCUPANCY CLASSIFICATION:

- GROUP I-2, CONDITION 2

SPRINKLER PROTECTION:

- BUILDING IS FULLY PROTECTED VIA AUTOMATIC SPRINKLER SYSTEM.

APPLICABLE BUILDING CODES:

- ALASKA BUILDING CODE
  2021 EDITION OF INTERNATIONAL BUILDING CODE WITH AMENDMENTS
- ALASKA LIFE SAFETY CODE
  2012 EDITION OF NFPA 101, LIFE SAFETY CODE
- ALASKA FIRE CODE
  2021 EDITION OF NFPA 1, FIRE CODE WITH AMENDMENTS
- ALAKSA FIRE ALARM CODE
  2019 EDITION OF NFPA 72, FIRE ALARM AND SIGNALING CODE

DESIGN INTENTS AND STANDARDS:

- CARBON MONOXIDE DETECTION (IBC 915.1.3)
  A. REQUIRES CARBON MONOXIDE DETECTION IN DWELLING UNITS, SLEEPING UNITS, AND CLASSROOMS SERVED BY FUEL BURNING, FORCED-AIR FURNACE.
  B. EXCEPTION - REQUIRED ONLY IN THE FIRST ROOM / AREA SERVED BY FUEL BURNING, FORED-AIR FURNACE (RTU).
  C. CARBON MONOXIDE ALARM PROVIDED FOR RTU-1 AND RTU-2 (SERVES SLEEPING UNITS) - FIRST DROPS IN ELECTRICAL CLOSETS 1232 AND 1332.
- PRIVATE OPERATING MODE FIRE ALARM SYSTEM NFPA (101 9.6.3.6.3(1))
  A. PRIVATE OPERATING MODE ALLOWED WHERE OCCUPANTS ARE INCAPABLE OF EVACUATING THEMSELVES DUE TO AGE, PHYSICAL OR MENTAL DISABILIITES, OR PHYSICAL RESTRAINT.
  B. HORN-STROBES ARE PROVIDED THROUGHOUT THE FACILITY AS THERE ARE STAFF EVERYWHERE, BUT THIS IS BEYOND WHAT IS CODE REQURIED.

  A. NO SMOKE DETECTION PROVIDED IN CORRIDORS / HALLWAYS (IBC 907.2.6.2)
  B. GROUP I-2, CONDITION 2 OCCUPANCIES TO PROVIDE AUTOMATIC SMOKE DETECTION AS REQUIRED BY SECITON 407.
  C. SMOKE DETECTION PROVIDED AT LOCATIONS OPEN TO CORRIDOR / HALLWAYS AS REQUIRED BY SECTION 407.
  D. NO SMOKE DETECTION REQUIREMENTS WITHIN CORRIDORS / HALLWAYS UNDER SECTION 407.
- HORN/STROBE (NON-VOICE EVAC) FIRE ALARM SYSTEM (IBC 907.5.2.2)
  A. REQUIRES AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM - IE. VOICE EVACUATION SYSTEM
  B. EXCEPTION - IN GROUP I-2 OCCUPANCIES, ALARM SHALL SOUND IN CONSTANTLY ATTENDED AREA AND GENERAL OCCUPANT NOTIFICATION SHALL BE BROADCAST OVER THE OVERHEAD PAGE.
  C. FIRE ALARM ANNUNCIATOR IS PROVIDED AT THE 24/7 NURSE STATION AND EVACUATION INSTRUCTIONS WILL BE GIVEN VIA THE BUILDING'S OVERHEAD PAGING SYSTEM.
- FIRE ALARM SYSTEM ZONED TO MATCH SMOKE COMPARTMENTS (NFPA 101 18.3.4.3.3.1 AND 18.3.4.3.3.2)
  A. WHERE PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM, THE FIRE ALARM ZONE IS PERMITTED TO MATCH THE MAXIMUM ALLOWABLE AREA OF THE SPRINKLER SYSTEM.
  B. FIRE ALARM SYSTEM HAS BEEN DESIGNED TO BE ZONED TO MATCH BUILDING SMOKE COMPARTMENTS.

FIRE ALARM SYSTEM GENERAL NOTES

1. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL BUILDING PERMITS, ELECTRICAL APPROVALS, AND APPROVALS FROM THE STATE OFFICE OF FIRE SAFETY OR AUTHORITY HAVING JURISDICTION (AHJ). THIS INCLUDES PREPARING DRAWINGS, CUTSHEETS, AND OTHER DOCUMENTATION REQUIRED BY THE AHJ OR FIRE ALARM EQUIPMENT MANUFACTURER. A COPY OF THESE REQUIREMENTS SHALL BE OBTAINED FROM AHJ. THE DRAWINGS SHALL BE PREPARED AS A FINAL SUBMITTAL AS OUTLINED IN THE SUBMITTAL REQUIREMENTS. ELECTRONIC COPIES OF THESE PLANS REQUIRED FOR THIS PURPOSE MAY BE OBTAINED FROM THE ENGINEER. DRAWINGS THAT ARE REQUIRED FOR APPROVAL SHALL BE FINISHED WITHIN 7 WORKING DAYS OF AWARD OF CONTRACT.
2. THE FINAL DESIGN AND IMPLEMENTATION OF THE FIRE ALARM SYSTEM IS DELEGATED TO THIS CONTRACTOR. THE EXTENT OF ALL FIRE ALARM SYSTEM WORK IS INDICATED OR IMPLIED ON THE CONTRACT DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL ENSURE ALL DEVICES SHOWN ON CONTRACT DOCUMENTS AND ALL DEVICES THAT ARE REQUIRED FOR OPERATION ARE INCLUDED. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL SYSTEM THAT SATISFIES ALL APPLICABLE CODES AND ANY REQUIREMENTS OF THE LOCAL FIRE DEPARTMENT AND THE AUTHORITY HAVING JURISDICTION.
3. FIELD VERIFY THE EXACT NUMBER AND LOCATIONS OF ALL MECHANICALLY RELATED ITEMS (SPRINKLER CONNECTIONS, EXTINGUISHING SYSTEMS, SMOKE DAMPERS, RANGE HOOD SUPPRESSION SYSTEMS, ETC.) AND MAKE CONNECTIONS AS REQUIRED/INDICATED.
4. PROVIDE CONNECTIONS TO ALL FIRE PROTECTION TAMPER AND FLOW SWITCHES VIA ZONE ADDRESSABLE MODULES AS REQUIRED. CONTRACTOR SHALL VERIFY ALL LOCATIONS WITH FIRE PROTECTION SYSTEM SHOP DRAWINGS.
5. ALL FIRE ALARM STROBE LIGHTS SHALL BE SYNCHRONIZED TO ACCOMMODATE BUILDING STANDARDS AS REQUIRED.
6. TAP SPEAKERS TO PROVIDE SUFFICIENT AUDIBILITY FOR AREA SERVED.
7. SMOKE DETECTORS SHALL NOT BE LOCATED CLOSER THAN 36" TO SUPPLY, RETURN OR EXHAUST AIR OPENINGS NOR CLOSER THAN 12" TO WALL/ CEILING INTERSECTIONS.
8. ADDITIONAL DUCT DETECTORS MAY BE SHOWN ON MECHANICAL DRAWINGS. PROVIDE AND CONFIGURE DUCT DETECTOR(S) FOR EITHER SHUTDOWN OF EQUIPMENT OR CLOSURE OF SMOKE DAMPER(S) AS REQUIRED BY CODE.
9. AIR HANDLING UNITS SHALL ONLY SHUT DOWN WHEN SMOKE IS DETECTED AT THAT PARTICULAR AIR HANDLING UNIT (UON). SMOKE DAMPERS SHALL CLOSE ONLY WHEN SMOKE IS DETECTED AT THAT PARTICULAR SMOKE DAMPER BY ACTIVATION OF THE CONTROLLING SMOKE DETECTOR. REFER TO THE SPECIFICATIONS FOR FURTHER REQUIREMENTS.
10. PROVIDE DUCT SMOKE DETECTORS WITH REMOTE TEST SWITCH/INDICATOR LIGHT AT 7'-6" AFF ON WALL IN AREA BELOW DETECTOR.
11. PROVIDE FIRE ALARM MANUFACTURER WITH LOCATION DESCRIPTIONS FOR ALL FIRE ALARM DEVICES AS SOON AS POSSIBLE AFTER AWARD OF CONTRACT FOR PRE-PROGRAMMING OF FIRE ALARM SYSTEM. COORDINATE DESCRIPTIONS WITH BUILDING OWNER. UTILIZE FINAL ROOM NAMES AND NUMBERS, NOT NAMES AND NUMBERS FROM FLOOR PLANS.
12. EACH FIRE ALARM DEVICE SHALL BE LABELED WITH SELF ADHESIVE POLYESTER COATED PRINTED LABELS INDICATING DEVICE ADDRESS AND CIRCUIT PER FIRE ALARM SHOP DRAWINGS.
13. PROVIDE CONNECTIONS TO ACCESS CONTROL DOORS TO ALLOW POSITIVE LATCHING AND FREE EGRESS UNDER ALARM CONDITIONS. COORDINATE EXACT REQUIREMENTS WITH SUCCESSFUL DOOR HARDWARE MANUFACTURER PRIOR TO CONSTRUCTION.
14. PROVIDE ACCESS PANELS AS REQUIRED FOR MAINTENANCE AND TESTING FOR SMOKE DETECTORS LOCATED ABOVE INACCESSIBLE CEILINGS. COORDINATE SIZE AND LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
15. PROVIDE APPROVED TESTING AND REQUIRED CERTIFICATION OF SYSTEM COMPONENTS AND PROVE OPERATION OF SYSTEM FOR THE AREA OF WORK WHEN COMPLETE.
16. WIRING TO ALL FIRE ALARM DEVICES SHALL BE PER NEC AND MANUFACTURER'S RECOMMENDATIONS. VERIFY ALL WIRING REQUIREMENTS WITH THE OWNER AND FIRE ALARM VENDOR.
17. ALL 120V POWER FOR NEW FIRE ALARM SYSTEM COMPONENTS SHALL BE CONNECTED TO EMERGENCY LIFE-SAFETY BRANCH PANELS AS APPLICABLE. PROVIDE ALL NEW POWER CONNECTIONS AS REQUIRED FOR SYSTEM OPERATION.
18. PROVIDE A DEDICATED POWER CIRCUIT TO EACH FIRE ALARM EQUIPMENT PANEL OR POWER SUPPLY.
19. FIRE ALARM OCP DEVICES SHALL HAVE NON-REMOVABLE LOCKABLE HANDLE PAINTED RED.
20. WRITTEN CERTIFICATION OF ENTIRE FIRE ALARM SYSTEM SHALL BE SUBMITTED TO OWNER & ENGINEER AT CLOSE OF PROJECT.
21. A TECHNICAL REPRESENTATIVE OF FIRE ALARM MANUFACTURER SHALL BE PRESENT AT ALL TIMES DURING FIRE ALARM CERTIFICATION.
22. CONTRACTOR SHALL MONITOR TROUBLES ON EXISTING PANEL EQUIPMENT ON A DAILY BASIS. WHERE A TROUBLE IS INDICATED, IT SHALL BE REPORTED TO THE OWNER AND CONSTRUCTION SHALL STOP UNTIL TROUBLE IS RESOLVED UNLESS OTHERWISE INDICATED BY OWNER.
23. INITIATING DEVICE CIRCUITS AND NOTIFICATION APPLIANCE CIRCUITS SHALL BE IN SEPARATE RACEWAYS. FIRE ALARM SYSTEM JUNCTION BOXES, BACK BOXES, AND PULL BOXES SHALL BE PAINTED RED.

SYSTEM SEQUENCE OF OPERATIONS

	SYSTEM INPUTS	SYSTEM OUTPUTS: ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE TROUBLE SIGNAL	ACTUATE APPROPRIATE LOCATION INDICATOR	ACTUATE ALL AUDIBLE EVACUATION SIGNALS	ACTUATE ALL VISIBLE EVACUATION SIGNALS	UNUSED	DISPLAY CHANGE OF STATUS	TRANSMIT ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	UNUSED	RELEASE ELEVATOR FIRE DOORS	MAIN FLOOR ELEVATOR RECALL	ALTERNATE FLOOR ELEVATOR RECALL	ELEVATOR HAT FLASH	ELEVATOR SHUNT TRIP	RELEASE MAGNETICALLY HELD SMOKE DETECTOR	DAMPER SHUTDOWN	REMOTELY DISPLAYS ACTIVE STATUS
		CONTROL UNIT						NOTIFICATION								FIRE SAFETY CONTROL								
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1	SMOKE SENSOR/DETECTOR	X	X					X	X	X		X	X									X	X	X
2	MANUAL PULL STATION	X	X					X	X	X		X	X											X
3	HEAT SENSOR/DETECTOR	X	X					X	X	X		X	X											X
4	DUCT SENSOR/DETECTOR - SUPERVISORY			X	X			X				X		X								X	X	X
5	MAIN FLR. ELEV. LOBBY SMOKE DETECTOR	X	X					X	X	X		X	X				X		X			X	X	X
6	ELEVATOR LOBBY SMOKE DETECTORS(EXC. MAIN FLR)	X	X					X	X	X		X	X				X	X				X	X	X
7	ELEVATOR MECH. ROOM HEAT DETECTOR	X	X					X	X	X		X	X								X			X
8	ELEVATOR MECH. ROOM SMOKE DETECTOR	X	X					X	X	X		X	X					X		X		X	X	X
9	ELEVATOR SHAFT HEAT DETECTOR	X	X					X	X	X		X	X								X			X
10	ELEVATOR SHAFT SMOKE DETECTOR	X	X					X	X	X		X	X					X		X		X	X	X
11	ELEVATOR POWER MONITOR			X	X			X				X		X										X
12	WATERFLOW SWITCH	X	X					X	X	X		X	X									X		X
13	PRESSURE SWITCH	X	X					X	X	X		X	X									X		X
14	TAMPER SWITCH			X	X			X				X		X										X
15	FIRE ALARM AC POWER FAILURE					X	X					X			X									X
16	FIRE ALARM SYSTEM LOW BATTERY					X	X					X			X									X
17	OPEN CIRCUIT OR GROUND FAULT					X	X					X			X									X
18	CLASS B NOTIFICATION CIRCUIT (NAC) - SHORT					X	X					X			X									X

GENERAL NOTE:

- THIS MATRIX IS FOR BID PURPOSES ONLY. FIRE ALARM CONTRACTOR SHALL SUBMIT A SYSTEM MATRIX THAT MEETS ALL STATE FIRE MARSHAL'S OFFICE OR LOCAL AHJ REQUIREMENTS. SUBMIT RFI(s) PRIOR TO SUBMITTING SHOP DRAWINGS IF THE MATRIX ABOVE IS IN CONFLICT WITH STATE/LOCAL REQUIREMENTS.
- REFER TO THE FIRE ALARM RISER DIAGRAM FOR INSTALLATION REQUIREMENTS.

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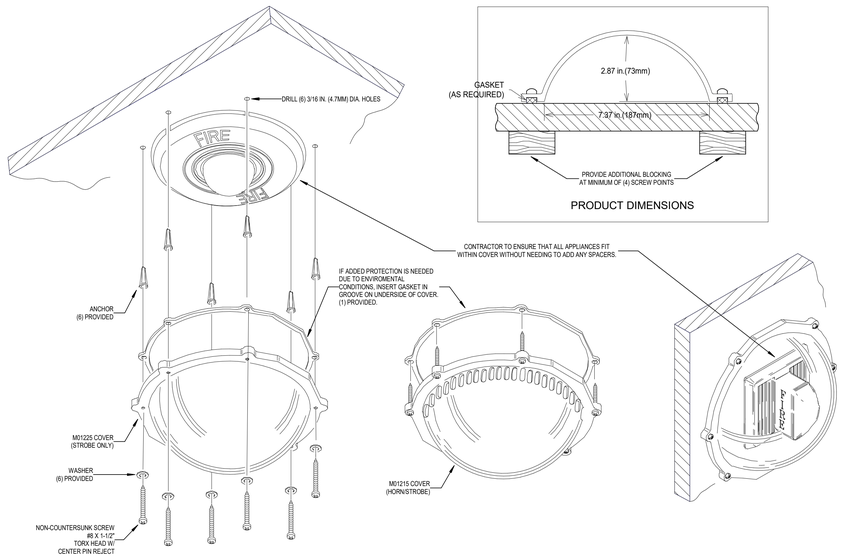
SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

FIRE ALARM LEGEND AND GENERAL NOTES

IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

17 FEBRUARY 2025
IFH2402

FA0.1



INSTALLATION NOTES:

1. To minimize strobe light loss, regardless of the type of horn/strobe appliance used, the clear section (not the section containing the cutout slots) must be centered over the strobe light lens. Failure to follow these instructions may lead to light loss transmission.
2. Stopper Dome must be installed to comply with applicable NEC, NFPA and local codes.
3. Stopper Dome may be installed outdoors when appliance carries an outdoor rating.

INSTALLATION INSTRUCTIONS - REFER TO EXPLODED VIEW:

1. Using cover as a template, place against mounting surface at proper location according to NFPA 72.
2. Mark and drill (6) holes 3/16 in. (4.7mm) diameter, 1 1/4 in. (32mm) deep.
3. Insert the (6) anchors into the wall.
4. Install horn/strobe appliance.
5. Install cover with washers and screws.
6. Test appliance according to appliance manufacturer's instructions.

CLEANING INSTRUCTIONS:

Rinse with water to remove abrasive dust and dirt. Wash with soap or mild detergent, using a soft cloth (do not scrub).
Rinse once more then dry with a soft cloth or chamois. To remove grease or wet paint, rub gently with a cloth wetted with naphtha.
Then wash and rinse. **DO NOT USE RAZOR BLADES.**

2 FIRE ALARM DEVICE COVER INSTALLATION DETAIL
FA3.0 — 3/4" = 1'-0"

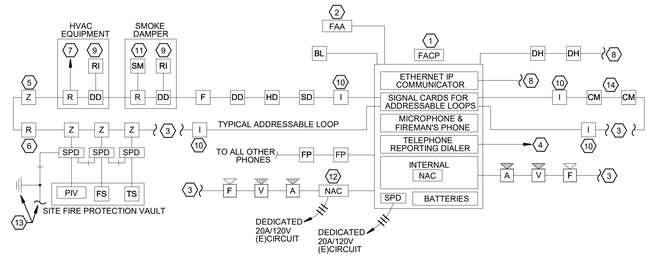
GENERAL NOTES (FIRE ALARM RISER):

A. THIS RISER IS PARTIAL. ALL THE DEVICES CONNECTED TO THE "FACP" UNITS ARE NOT SHOWN. THE CONTRACTOR SHALL REFER TO THE ELECTRICAL FLOOR PLANS FOR THE COMPLETE FIRE ALARM SYSTEM.

B. THE EXTENT OF ALL FIRE ALARM SYSTEM WORK IS INDICATED OR IMPLIED ON THE CONTRACT DRAWINGS.

C. RISER DIAGRAM IS FOR BID PURPOSES ONLY. SYSTEM SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH WIRING DIAGRAMS OBTAINED FROM MANUFACTURER, THAT HAVE BEEN APPROVED BY THE STATE FIRE MARSHAL'S OFFICE OR AUTHORITY HAVING JURISDICTION.

D. PROVIDE QUANTITY OF POWER SUPPLIES AND NAC PANELS BASED UPON FINAL SYSTEM DESIGN AND REQUIRED SPARE CAPACITY. LOCATE ADDITIONAL PANELS ADJACENT TO THOSE SHOWN ON PLANS. DO NOT INSTALL ADDITIONAL EQUIPMENT IN OTHER AREAS OF THE PROJECT WITHOUT WRITTEN CONSENT BY THE ENGINEER.



TAGGED NOTES :

1. PROVIDE NEW SURFACE MOUNTED, MICROPROCESSOR BASED, FIRE ALARM TRANSPONDER PANEL / CENTRAL PROCESSING UNIT (C.P.U.). PANEL SHALL BE CAPABLE OF MONITORING ALL INDIVIDUALLY ADDRESSABLE ALARM INDICATING DEVICES OR POINTS AS INDICATED AND WITH A MINIMUM OF 20% SPARE CAPACITY FOR FUTURE EXPANSION. ALL SYSTEM EQUIPMENT SHALL BE HOUSED IN A SINGLE CABINET. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.
2. NEW REMOTE FLUSH-MOUNTED FIRE ALARM ANNUNCIATOR STATION WITH LCD DISPLAY. SEE FLOOR PLANS FOR LOCATIONS AND QUANTITY.
3. TO ALL OTHER DEVICES ON LOOP/CIRCUIT AS REQUIRED. REFER TO FLOOR PLAN FOR PROPOSED DEVICE LOCATIONS.
4. PROVIDE PHONE LINE TO REMOTE REPORTING DIALER FOR CENTRAL STATION REPORTING AS REQUIRED PER NFPA. COORDINATE WITH OWNER AND CENTRAL RECEIVING STATION AS REQUIRED.
5. PROVIDE ZONE ADDRESSABLE MODULE FOR SUPERVISION OF ANCILLARY FIRE PROTECTION/MONITORING SYSTEMS. DEVICE SHALL BE SURFACE MOUNTED IN NEMA-1 ENCLOSURE, ABOVE SUSPENDED CEILING. PROVIDE QUANTITY AND TYPE AS REQUIRED FOR:
   1. FIRE PROTECTION TAMPER AND FLOW SWITCHES.
   2. FIRE PROTECTION POST-INDICATOR VAVLE.
   3. KITCHEN HOOD FIRE SUPPRESSION SYSTEM.
   4. KNOX-BOXES.
6. PROVIDE ADDRESSABLE FIRE ALARM RELAY FOR SIGNAL OUTPUT TO ANCILLARY BUILDING SYSTEMS. DEVICE SHALL BE SURFACE MOUNTED IN NEMA-1 ENCLOSURE, ABOVE SUSPENDED CEILING. PROVIDE QUANTITY AND TYPE AS REQUIRED FOR:
   1. HOLD-OPEN DOORS TO RELEASE ON FIRE ALARM.
   2. ELECTRICAL DOOR LOCKING MECHANISMS TO PROVIDE THE CAPABILITY TO UNLOCK ALL DOORS UPON FIRE ALARM. REFERNECE DOOR HARDWARE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON SPECIFIC DOORS TO BE CONNECTED TO FIRE ALARM. DOORS SHALL BE WIRED AND CONNECTED FOR AUTOMATIC UNLOCKING CAPABILITY, BUT SHALL BE PROGRAMMED PER ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS, WHICH MAY INDICATE FOR DOORS TO REMAIN LOCKED AT ALL TIMES, EVEN ON FIRE ALARM.
7. ROUTE CONTROL WIRING (IN CONDUIT) BACK TO NEW HVAC EQUIPMENT CONTROLS FOR AUTOMATIC SHUTDOWN.
8. PROVIDE ETHERNET IP CONNECTION TO OWNER'S NETWORK FOR REPORTING/LOGGING. COORDINATE WITH OWNER PRIOR TO CONSTRUCTION.
9. PROVIDE NEW FLUSH-MOUNTED REMOTE ALARM/POWER INDICATING KEY RESET/TEST STATION ON CORRIDOR WALL (WHENEVER POSSIBLE) AT 7'- 6" AFF BELOW SMOKE DAMPER/DUCT SMOKE DETECTOR LOCATION AS REQUIRED.
10. PROVIDE AN "ISOLATOR MODULE" AT ALL BRANCH RUNS. MOUNT IN A SURFACE NEMA-1 ENCLOSURE ABOVE THE SUSPENDED CEILING. PROVIDE AS REQUIRED BY SYSTEM MANUFACTURER TO ISOLATE LOOPS ON EACH FLOOR AND WITHIN EACH SMOKE COMPARTMENT.
11. ROUTE 120V POWER WIRING THROUGH ADDRESSABLE RELAY MODULE FOR CONTROL OF DAMPER VIA ASSOCIATED DUCT/AREA SMOKE DETECTOR.
12. PROVIDE NUMBER OF NOTIFICATION APPLIANCE POWER SUPPLIES AS REQUIRED. LOCATE IN ELECTRICAL ROOMS. SUBMIT PROPOSED LOCATIONS IN SHOP DRAWINGS FOR REVIEW.
13. PROVIDE SURGE PROTECTION DEVICE AT POINT OF CONDUIT ENTRANCE INTO BUILDING. PROVIDE 5/8" X 10'-0" COPPER-WELD GROUND ROD AT PERIMETER OF BUILDING NEXT TO CONDUIT ENTRANCE AND CONNECT TO SPD'S. COLD WATER LINE, AND BUILDING STEEL WITH #3 INSULATED GROUND IN 3/4" CONDUIT.
14. PROVIDE SEPARATE, DEDICATED CIRCUIT FOR CARBON MONOXIDE ALARMS. A CARBON MONOXIDE ALARM SHALL INDICATE AS A SUPERVISORY SIGNAL ONLY AND SHALL NOT INITIATE A FIRE ALARM. SINGLE-STATION ALARMS IN EACH SLEEPING UNIT SHALL BE CONNECTED TO ALL OTHER SINGLE-STATION ALARMS IN THE UNIT. WHEN ANY DETECTOR ALARMS, ALL DETECTORS ON THE UNIT SHALL ALARM.

1 FIRE ALARM RISER DIAGRAM
FA3.0 — 12" = 1'-0"

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SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

FIRE ALARM RISER AND DETAILS

IFHS EXPANSION & RENOVATION
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17 FEBRUARY 2025
IFH2402

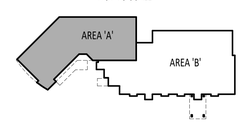
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HEALTHCARE TECHNOLOGY INDEX	
Sheet Number	Sheet Name
EQ.1A	HEALTHCARE TECHNOLOGY LEVEL 1 - AREA 'A'
EQ.1B	HEALTHCARE TECHNOLOGY LEVEL 1 - AREA 'B'
EQ.2B	HEALTHCARE TECHNOLOGY LEVEL 2 - AREA 'B'

1 HEALTHCARE TECHNOLOGY LEVEL 1 - AREA 'A'
EQ.1A — 1/8" = 1'-0" — NORTH

KEYPLAN
NOT TO SCALE



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STATE OF ALASKA 49TH
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SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION

HEALTHCARE TECHNOLOGY LEVEL 1 - AREA 'A'
IFHS EXPANSION & RENOVATION
ILIULIUK FAMILY HEALTH SERVICES
UNALASKA, AK

1	Revision 1	Date 1

FEBRUARY 17 2025
IFH2402

EQ.1A

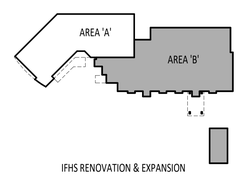
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STENGEL - HILL



1 EQ.1B — HEALTHCARE TECHNOLOGY LEVEL 1 - AREA 'B' — 1/8" = 1'-0" — NORTH

KEYPLAN
NOT TO SCALE



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EQ.1B

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