

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE MOST RECENT ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE, NFPA, INTERNATIONAL MECHANICAL CODE, UNIFORM PLUMBING CODE, NATIONAL ELECTRICAL CODE, ALL LOCAL AND STATE OF ALASKA CODE REGULATIONS AND AMENDMENTS, AND TRADE STANDARDS.
- THE ORGANIZATION OF THESE DRAWINGS IS NOT INTENDED TO CONTROL THE DIVISION OF WORK AMONG SUB-CONTRACTORS. THE DIVISION OF THE WORK SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- FOR CONVENIENCE, SPECIFICATIONS HAVE BEEN PREPARED FOR THIS PROJECT AND ARE ARRANGED IN SEVERAL SECTIONS, BUT SEPARATION SHALL NOT BE CONSIDERED AS THE LIMITS OF THE WORK REQUIRED BY ANY SEPARATE TRADE. THE TERMS AND CONDITIONS OF SUCH LIMITATIONS ARE WHOLLY BETWEEN THE CONTRACTOR AND THEIR SUBCONTRACTORS.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC, ENVIRONMENT AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION. CONTRACTOR ASSUMES ALL LIABILITY FOR DAMAGES INCURRED DURING CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE, LOCATION OF STORAGE AREAS, COLLECTION OF TRASH, AND DELIVERY OF MATERIALS WITH THE PROJECT MANAGER.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL EXISTING FACILITIES FOR HEAT, LIGHT AND POWER WITHIN THE PREMISES AND IN THE CONSTRUCTION AREA DURING THE ENTIRE CONSTRUCTION PERIOD. PROVIDE NECESSARY MATERIALS AND LABOR FOR TEMPORARY POWER CONNECTIONS FOR MACHINES, PORTABLE, EQUIPMENT, TOOLS, ETC. AS USED BY TRADES, REGARDLESS OF SIZE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL RUBBISH AND DEBRIS RESULTING FROM CONSTRUCTION AND DEMOLITION ACTIVITIES. DISPOSAL SHALL BE IN AN APPROVED SITE AND IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
- IN GENERAL, THE WORKING DETAILS WILL INDICATE DIMENSIONS, POSITIONS AND KIND OF CONSTRUCTION, AND THE SPECIFICATIONS, QUALITIES AND METHODS. ANY WORK INDICATED ON THE WORKING DETAILS MENTIONED IN THE SPECIFICATIONS, OR VICE VERSA, SHALL BE FURNISHED AS THOUGH FULLY SET FORTH IN BOTH. WORK NOT PARTICULAR DETAILED, MARKED OR SPECIFIED, SHALL BE THE SAME AS SIMILAR PARTS THAT ARE DETAILED, MARKED OR SPECIFIED. IF CONFLICTS OCCUR BETWEEN DRAWINGS AND SPECIFICATIONS, THE MOST EXPENSIVE MATERIALS OR METHODS WILL PREVAIL.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION. IF A CONDITION NOT COVERED IN THE DRAWINGS IS ENCOUNTERED, OR IF A DIMENSIONAL ERROR IS FOUND, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR ENGINEER BEFORE COMMENCING WITH THAT PORTION OF THE WORK.
- SHOULD AN ERROR APPEAR IN THE WORKING DETAILS OR SPECIFICATIONS OR IN WORK DONE BY OTHERS AFFECTING THIS WORK, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR ENGINEER AT ONCE AND IN WRITING. IF THE CONTRACTOR PROCEEDS WITH THE WORK SO AFFECTED WITHOUT HAVING GIVEN SUCH WRITTEN NOTICE AND WITHOUT RECEIVING THE NECESSARY APPROVAL, DECISIONS OR INSTRUCTION IN WRITING FROM THE OWNER, THE CONTRACTOR SHALL HAVE NO VALID CLAIM AGAINST THE OWNER, FOR THE COST OF SO PROCEEDING AND SHALL MAKE GOOD ANY RESULTING DAMAGE OR DEFECT. NO VERBAL APPROVAL, DECISION, OR INSTRUCTION SHALL BE VALID OR BE THE BASIS FOR ANY CLAIM AGAINST THE OWNER, ITS OFFICERS, EMPLOYEES OR AGENTS. THE FOREGOING INCLUDES TYPICAL ERRORS IN THE SPECIFICATIONS OR NOTATIONAL ERRORS IN THE WORKING DETAILS WHERE THE INTERPRETATIONS IS DOUBTFUL OR WHERE THE ERROR IS SUFFICIENTLY APPARENT AS TO PLACE A REASONABLY PRUDENT CONTRACTOR ON NOTICE THAT SHOULD IT BE ELECTED TO PROCEED, IT IS DONE SO AT THE CONTRACTOR'S OWN RISK.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OR ENGINEER WHERE A CONFLICT OR A DISCREPANCY OCCURS BETWEEN THE DRAWINGS AND ANY OTHER PORTION OF THE CONTRACT DOCUMENTS OR EXISTING FIELD CONDITIONS. SUCH NOTIFICATION SHALL BE GIVEN IN DUE TIME SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. IN CASE OF A CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS, THE MORE RESTRICTIVE CONDITION SHALL TAKE PRECEDENCE UNLESS WRITTEN APPROVAL HAS BEEN GIVEN FOR THE LEAST RESTRICTIVE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH THE DRAWINGS PRIOR TO COMMENCING ANY WORK.
- IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS, AS THEY APPLY TO THIS PROJECT, OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF ALASKA LATEST EDITION, AND ALL OSHA REQUIREMENTS. THE OWNER AND THE ARCHITECT OR ENGINEER DO NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING OR OTHER TEMPORARY CONSTRUCTION DESIGNS REQUIRED.
- WHERE NO SPECIFIC DETAILS IS SHOWN, THE CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THIS PROJECT. SHOULD THERE BE ANY QUESTIONS, CONTACT THE ARCHITECT OR ENGINEER PRIOR TO PROCEEDING.
- ANY SUBSTITUTIONS FOR MATERIALS, STRUCTURAL MEMBERS, HARDWARE, EQUIPMENT OR DETAILS SHALL BE REVIEWED BY THE ARCHITECT OR ENGINEER. SUCH REVIEW MAY BE BILLED ON A TIME AND MATERIALS BASIS TO THE GENERAL CONTRACTOR UNDER APPROVED AGREEMENT WITH NO GUARANTEE THAT THE SUBSTITUTION WILL BE ALLOWED.
- ALL COMPONENTS, EQUIPMENT, ETC., SHALL BE INSTALLED PER MANUFACTURERS WRITTEN RECOMMENDATIONS AND INSTRUCTIONS.
- DO NOT SCALE DRAWINGS. CONTACT THE ARCHITECT OR ENGINEER FOR ANY DIMENSIONS NOT SHOWN.
- THESE DRAWINGS ARE NOT COMPLETE UNTIL REVIEWED AND ACCEPTED BY THE LOCAL BUILDING OFFICIALS AND SIGNED BY THE OWNER AND THE ARCHITECT AND/OR ENGINEER.
- ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTES THE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND/OR ENGINEER AND ARE THE PROPERTY OF THE OWNER AND THE SAME MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT WRITTEN CONSENT OF THE ARCHITECT AND/OR ENGINEER AND FOR APPROVED COMPENSATION.
- ALL COLOR SELECTION SHALL BE PER THE COLOR SCHEDULE OR IF NOT ON THE COLOR SCHEDULE THEN SUBMIT TO THE ARCHITECT FOR APPROVAL.
- EXISTING CONDITIONS DERIVED FROM AS-BUILT SITE VISITS AND AVAILABLE 1984-85 DESIGN DOCUMENTS. CONTRACTOR TO VERIFY HIDDEN CONDITIONS AS NECESSARY.
- THE STRUCTURE SHOWN ON THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN ITS COMPLETED FORM. THE STABILITY OF THIS STRUCTURE DEPENDS ON THE DIAPHRAGM AND BRACING MEMBERS SHOWN. THE CONTRACTOR IS TO PROVIDE FOR THE DESIGN AND CONSTRUCTION OF SHORING FOR ALL EARTH, FORMS, CONCRETE, STEEL, WOOD, AND MASONRY TO RESIST GRAVITY, EARTH, WIND, AND CONSTRUCTION LOADS. SHORING SHALL REMAIN IN PLACE UNTIL ALL DIAPHRAGM AND LATERAL RESISTING ELEMENTS ARE IN PLACE IN THEIR ENTIRETY.

ALEKNAGIK LAKE ROAD FIRE HALL ADDITION

CITY OF DILLINGHAM
DILLINGHAM, ALASKA

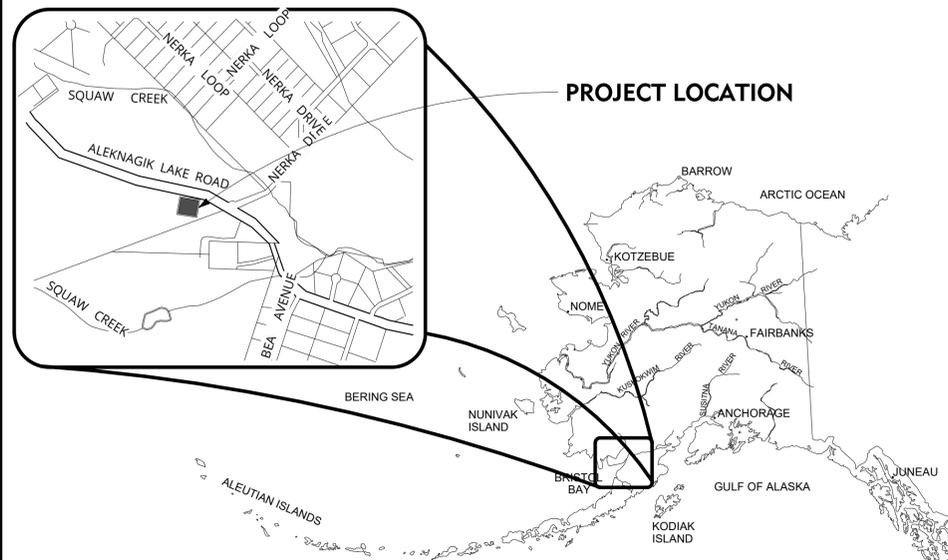
CONSTRUCTION DOCUMENTS

05/11/2020



PROJECT LOCATION

ADDRESS: 1335 ALEKNAGIK LAKE ROAD, DILLINGHAM, ALASKA, 99576



PROJECT TEAM

ARCHITECTURE, STRUCTURAL, CIVIL, AND SURVEY



250 H Street
Anchorage, AK 99501
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MECHANICAL AND ELECTRICAL ENGINEERING



MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
670 West Fireweed Lane, Suite 200 Anchorage, AK 99503 (907) 276-0521
191 East Swanson Ave., Suite 101 Wasilla, AK 99654 (907) 357-1521

PROJECT DESCRIPTION

PROJECT SCOPE COVERS AN ADDITION TO THE DILLINGHAM LAKE ROAD FIRE HALL APPARATUS BAY AND MODIFICATION TO THE WATER SERVICE LOCATION.

DRAWING SHEET INDEX

ARCHITECTURAL DRAWINGS

- COVER SHEET
- G1 GENERAL NOTES AND ABBREVIATIONS
- A0 SITE PLAN
- A1 FLOOR PLAN
- A2 ELEVATIONS
- A3 BUILDING AND WALL SECTIONS

STRUCTURAL DRAWINGS

- S1 DESIGN CRITERIA AND NOTES
- S2 FOUNDATION AND ROOF FRAMING PLAN
- S3 SHEARWALL PLAN AND SECTIONS
- S4 SECTIONS
- S5 DETAILS
- S6 DETAILS

MECHANICAL DRAWINGS

- M1 LEGENDS, ABBREVIATIONS AND SCHEDULES
- M2 UNDERFLOOR DEMOLITION PLAN
- M3 ABOVE GROUND DEMOLITION PLAN
- M4 VENTILATION DEMOLITION PLAN
- M5 PIPING REMODEL PLAN
- M6 VENTILATION REMODEL PLAN
- M7 DETAILS

ELECTRICAL DRAWINGS

- E1 ELECTRICAL LEGEND, SCHEDULES AND LOAD CALCULATION
- E2 FIRST FLOOR ELECTRICAL DEMOLITION
- E3 FIRST FLOOR ELECTRICAL REMODEL

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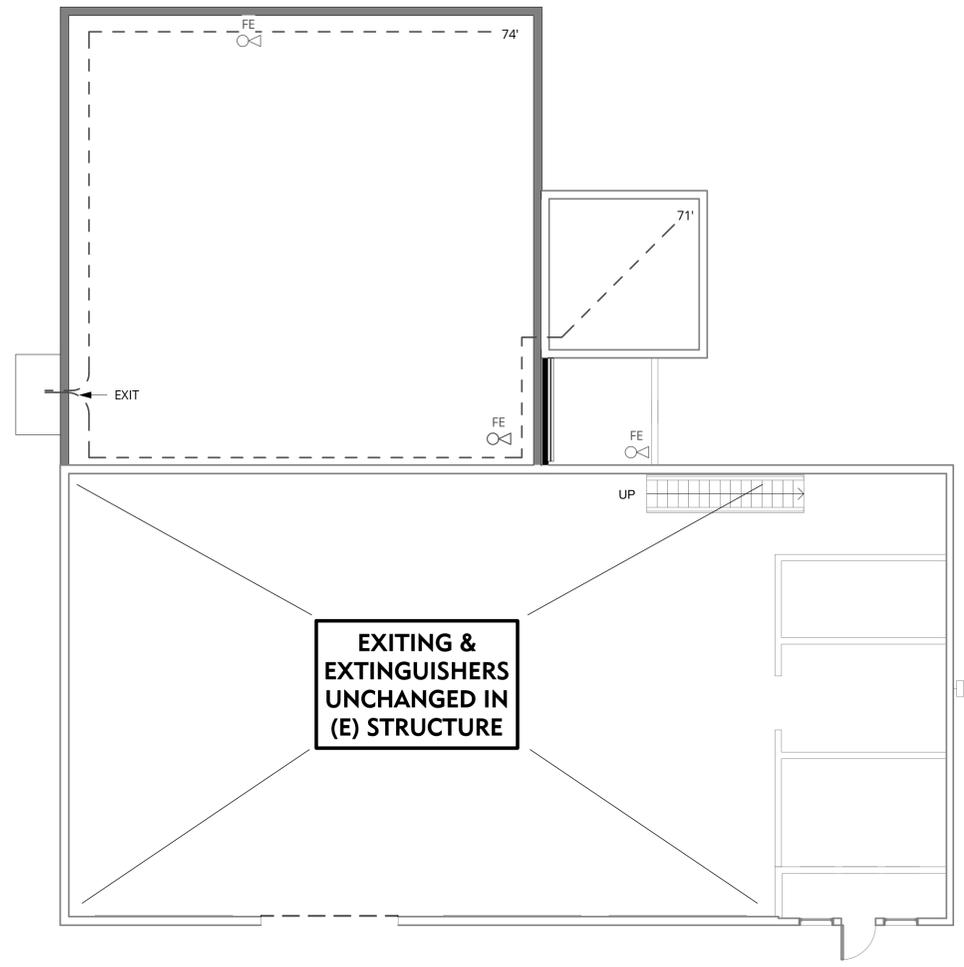
ALEKNAGIK LAKE ROAD FIRE HALL ADDITION

1142.01



ABBREVIATIONS

CODE SUMMARY



2 TRAVEL DISTANCE & FIRE EXTINGUISHER LOCATION
 G1 1/8" = 1'-0"

AFF	ABOVE FINISH FLOOR	IE	INVERT ELEVATION
ACS	ACOUSTICAL CEILING SUSPENDED	INV	INVERT
AB	ANCHOR BOLT	LAM	LAMINATE
AC	ASPHALTIC CONCRETE	LL	LIVE LOAD
ALT	ALTERNATE	LT	LIGHT
ALUM	ALUMINUM	M	MEASURED
AMC	ANCHORAGE MUNICIPAL CODE	MB	MACHINE BOLT
APPROX	APPROXIMATELY	MFR	MANUFACTURER
ARCH	ARCHITECTURAL	MASS	MOA STANDARD SPECIFICATIONS
BLDG	BUILDING	ME	MATCH EXISTING
BLKG	BLOCKING	MECH	MECHANICAL
BM	BENCH MARK	MFG	MANUFACTURER
BN	BOUNDARY NAIL	MIN	MINIMUM
BOC	BACK OF CURB	MISC	MISCELLANEOUS
BTM	BOTTOM	MTL	METAL
BTWN	BETWEEN	MOA	MUNICIPALITY OF ANCHORAGE
CC	CENTER TO CENTER	MON	MONUMENT
CL	CENTER LINE	MOU/TC	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
CJ	CONSTRUCTION JOINT	(N)	NEW
CLR	CLEAR	NA	NOT APPLICABLE
COEF	COEFFICIENT	NIC	NOT IN CONSTRUCTION
CMP	CORRUGATED METAL PIPE	NTS	NOT TO SCALE
CMU	CONCRETE MASONRY UNIT	OC	ON CENTER
COL	COLUMN	OH	OVERHEAD
CONC	CONCRETE	PC	POINT OF CURVE
CONT	CONTINUOUS	PCC	PORTLAND CONCRETE CEMENT
CP	COMPLETE PENETRATION	PLAM	PLASTIC LAMINATE
CPT	CARPET	PP	PARTIAL PENETRATION
CT	CERAMIC TILE	PERF	PERFORATED
CTJ	CONTROL JOINT	PT	PRESSURE TREATED
CTR	CENTER	PVMT	PAVEMENT
C&G	CURB & GUTTER	RCP	REFLECTED CEILING PLAN
CR	CURB RETURN	REF	REFERENCE
CU	CUBIC	REINF	REINFORCING
DF	DOUGLAS FIR	RD	ROOF DRAIN
DIA	DIAMETER	RE	RIM ELEVATION
DL	DEAD LOAD	ROW	RIGHT OF WAY
do	DITTO	SC	SOLID CORE
DEMO	DEMOLITION	SD	STORM DRAIN
DWG	DRAWING	SDCB	STORM DRAIN CATCH BASIN
(e)	EXISTING	SDMH	STORM DRAIN MANHOLE
EA	EACH	SHTG	SHEATHING
ESMT	EASEMENT	SIM	SIMILAR
EN	EDGE NAIL	SS	SANITARY SEWER
EOP	EDGE OF PAVEMENT	SSCO	SANITARY SEWER CLEAN OUT
EL	ELEVATION	STFNR	STIFFENER
EQ	EQUAL	STGGRD	STAGGERED
EXIST	EXISTING	STA	STATION
EJ	EXPANSION JOINT	STL	STEEL
EW	EACH WAY	STRUCT	STRUCTURAL
ELECT	ELECTRICAL	SYM	SYMMETRICAL
FD	FLOOR DRAIN	T & B	TOP AND BOTTOM
FE	FIRE EXTINGUISHER	T & G	TONGUE AND GROVE
FF	FINISH FLOOR	TBC	TOP BACK OF CURB
FIN	FINISH	TBM	TEMPORARY BENCH MARK
FLR	FLOOR	TI	TENANT IMPROVEMENT
FL	FLOW LINE	TN	TOE NAIL
FRMG	FRAMING	TOC	TOP OF CURB
FS	FACE OF STUD	TOF	TOP OF FRAMING
FT	FOOT	TOS	TOP OF STEEL
FTG	FOOTING	TYP	TYPICAL
FND	FOUND	UNO	UNLESS OTHERWISE NOTED
GA	GAUGE	VB	VAPOR BARRIER
GAAB	GREATER AREA ANCHORAGE BOROUGH	VERT	VERTICAL
GALV	GALVANIZED	VIF	VERIFY IN FIELD
GLB	GLU-LAM BEAM	W/	WITH
GB	GRADE BREAK	W/O	WITHOUT
GWB	GYPSPUM WALL BOARD	WD	WOOD
HB	HOSE BIB	#	NUMBER OR POUNDS
HDR	HEADER	R	PLATE
HGR	HANGER	Ø	ROUND OR DIAMETER
HORIZ	HORIZONTAL	□	SQUARE
HM	HOLLOW METAL	∟	ANGLE
HP	HIGH POINT	⌋	HAIRPIN
HT	HEIGHT		
HW	HOT WATER		

- APPLICABLE CODES:**
- 2012 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
 - 2012 INTERNATIONAL BUILDING CODE (IBC)
 - 2012 INTERNATIONAL FIRE CODE (IFC)
 - 2012 INTERNATIONAL MECHANICAL CODE (IMC)
 - 2012 UNIFORM PLUMBING CODE (UPC)
 - 2014 NFPA 70 NATIONAL ELECTRICAL CODE (NEC)
 - ADA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAAG)

OCCUPANCY CLASSIFICATION: B, FIRE STATION
CONSTRUCTION TYPE: V-B NON RATED

SPRINKLER SYSTEM: NOT REQUIRED
FIRE ALARM SYSTEM: NOT REQUIRED
FIRE EXTINGUISHERS: PROVIDE 3-A, 40-B:C FIRE EXTINGUISHERS (SEE LOCATIONS, THIS SHEET)

ALLOWABLE AREA CALCULATION:
GROUND FLOOR AREA: B OCCUPANCY
 BASE AREA: 9,000 SF
 FRONTAGE INCREASE: 6,375 SF
 SPRINKLER INCREASE: N/A
 TOTAL ALLOWABLE AREA: 14,875 SF
 ACTUAL GROUND FLOOR AREA: 5,040 SF *OK*

ALLOWABLE HEIGHT: 2 STORY - *OK*

OCCUPANT LOAD:
 OFFICE AREA: 909/100 = 9 (9.09)
 ACCESSORY AREAS: 310/300 = 1 (1.03)
 APPARATUS GARAGE: 4140/200 = 20 (20.7)

TOTAL OCCUPANTS 30 (30.82)

- FIRE RATED CONSTRUCTION:**
- NO FIRE RATED EXTERIOR WALLS; DISTANCE TO PROPERTY LINES EXCEEDS 10 FEET.
 - NO FIRE RATED OCCUPANCY SEPARATIONS REQUIRED.

- EXITS REQUIRED:**
- 2 EXITS REQUIRED WHEN OCCUPANT LOAD OF AREA EXCEEDS 49 PERSONS, WITH 200 FOOT MAXIMUM TRAVEL DISTANCE (IBC).

ONE INCH (1")

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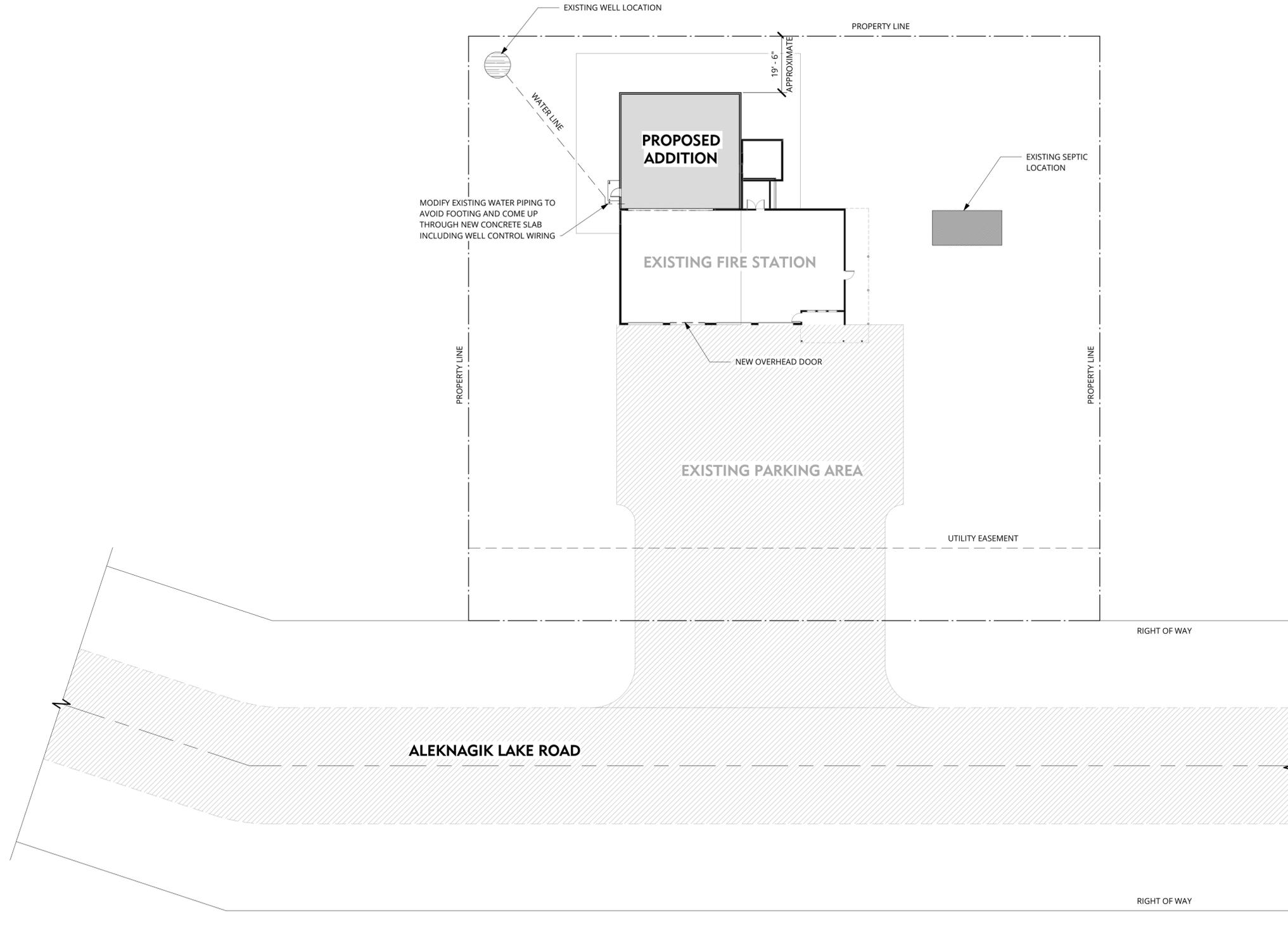
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ICG Lantech Inc
architecture · engineering · surveying
 CITY OF DILLINGHAM

ALEKNAGIK LAKE ROAD FIRE HALL ADDITION
DILLINGHAM, ALASKA
 GENERAL NOTES AND ABBREVIATIONS

SHEET SIZE:	34x22
DESIGNED BY:	LCG
DRAWN BY:	LCG
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FILE NO.	1142.01

SHEET NUMBER
G1 OF **1**

1
A0 **SITE PLAN**



1" = 20'-0"



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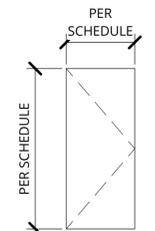
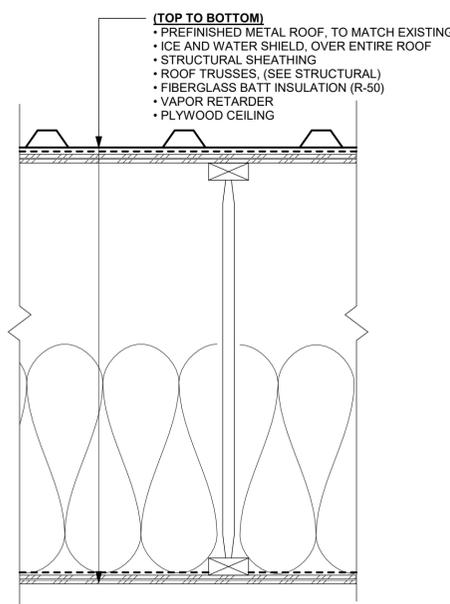
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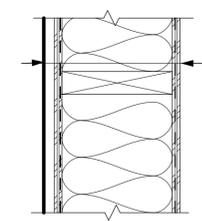
**ALEKNAGIK LAKE ROAD FIRE HALL
 ADDITION
 DILLINGHAM, ALASKA**
 SITE PLAN

SHEET SIZE:	34x22
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A0 OF **4**



F - FLUSH DOOR
1/4" = 1'-0"



W1 - EXTERIOR WALL

W2 - EXTERIOR WALL

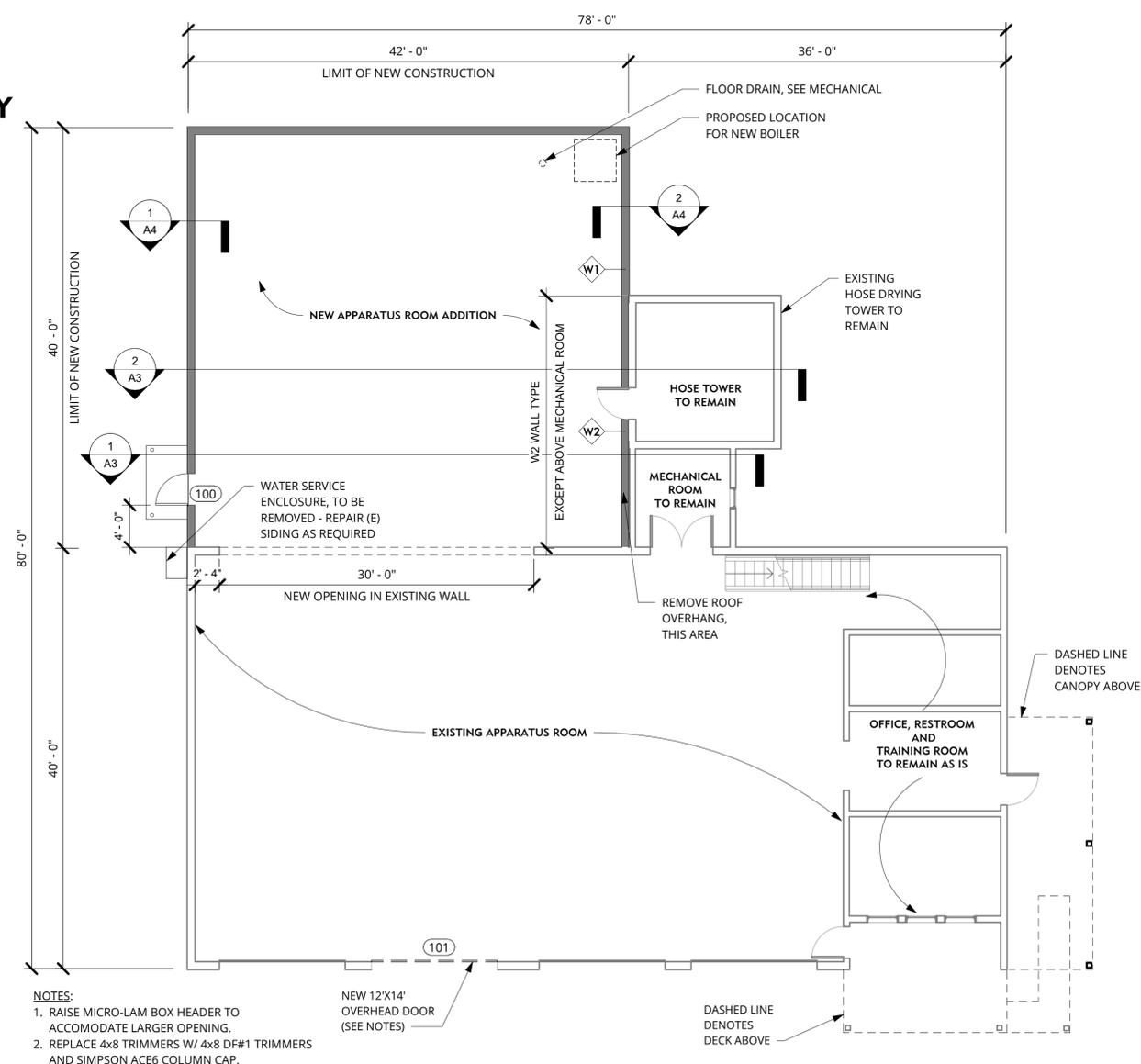
• W2 WALL OMMITS FINISHED SIDING, AIR INFILTRATION BARRIER, INSULATION AND VAPOR RETARDER

DOOR SCHEDULE							
DOOR #	WIDTH	HEIGHT	DOOR TYPE	MATERIAL	GLAZING	FRAME	HARDWARE
100	3' - 0"	7' - 0"	F	INS HM		INS HM	EXTERIOR
101	12' - 0"	14' - 0"	OH	INS	1/4" LAMINATED		BY MANUF

HARDWARE GROUPS											
GROUP	HINGE	LOCKSET	DOOR STOP	JAMB SEAL	HEAD SEAL	DOOR BOTTOM	THRESHOLD	FINISH	CLOSER	NOTES	
EXTERIOR	HEAVY WEIGHT	EXIT HARDWARE	OVERHEAD	PERIMETER GASKET	PERIMETER GASKET	DOOR SWEEP	THERMAL	US32D	Yes		

MATERIALS SCHEDULE			
MATERIAL	MANUFACTURER	MODEL	DESCRIPTION
AIR INFILTRATION RETARDER	DUPONT	TYVEK HOMEWRAP	INTSALLED AT ALL NEW/RENOVATED WALLS TO BE LAPPED WITH ADJACENT RETARDER
BATT/BLANKET INSULATION	JOHNS MANVILLE	FORALDEHYDE-FREE, UNFACED FIBERGLASS	USED AT ALL CONCEALED INSULATED CAVITIES
DOOR CLOSER	SARGENT	281 SERIES	
DOOR FRAMES	CECO	SU, 16 GAUGE A60, FULLY WELDED	ANSI A250.8-03 LEVEL 2 HEAVY DUTY COMMERCIAL, FACTORY PRIMED
DOOR SWEEP	PEMKO MANUFACTURING	18137_NB	
DOORS	CECO	IMPERIAL POLYURETHANE CORE, 16 GAUGE A60 GALVANIZED SKINS	ANSI A250.8-03 LEVEL 2 HEAVY DUTY COMMERCIAL, FACTORY PRIMED
EXIT HARDWARE	SARGENT	8800 WITH LW1L LEVEL	PROVIDE 6300 REMOVABLE CYLINDERS & L980S REMOVABLE KEYED MULLION
EXTERIOR SIDING	TI-11	THICKENSS, SHAPE AND FINISH TO MATCH EXISTING	
HINGES	HAGER	BB1191 FIVE KNUCKLE FULL MORTISE	4.5" x 4.5" STAINLESS STEEL
ICE & WATER SHIELD	GCP APPLIED TECHNOLOGIES	GRACE ICE AND WATER SHIELD	
METAL FLASHING		24 GAUGE A60 GALVANIZED SHEET METAL	OVER FOUNDATION INSULATION
OVERHEAD DOOR	THE OVERHEAD DOOR COMPANY	MODEL 591 W/ REMOTE OPERATOR	COLOR TO MATCH EXISTING OH DOORS
OVERHEAD STOP	SARGENT	698 CONCEALED OVERHEAD STOP	
PAINT (EXTERIOR)	SHERWIN WILLIAMS	MACROPOXY 626 W/ MANUFACTURER'S RECOMMENDED PRIMER	P1: METAL DOORS & FRAMES (EXTERIOR & INTERIOR)
PAINT (INTERIOR TYPICAL)	SHERWIN WILLIAMS	PROMAR 200	P4: TYPICAL WALLS AND TOUCHUP OF EXISTING SURFACES
PAINT (INTERIOR WASHDOWN)	SHERWIN WILLIAMS	MACROPOXY 626 W/ MANUFACTURER'S RECOMMENDED PRIMER	P3: PAINTED SURFACES OF NEW AMBULANCE BAY ADDITION
PAINT (WOOD STAIN)	SHERWIN WILLIAMS	EXTERIOR WATER-BASED SOLID STAIN	P3: EXTIOER STAINED WOOD
PERIMETER GASKET	PEMKO MANUFACTURING	335_R & 336_R	
RIGID BOARD INSULATION	DOW	STYROFOAM EXTRUDED POLYSTYRENE	
ROOF	METAL SALES	THICKENSS, SHAPE AND FINISH TO MATCH EXISTING	
SADDLE THRESHOLD	PEMKO MANUFACTURING	PEMKO 172	
SEALANTS	OSI	PRO SERIES H2U	ACRYLIC URETHANE SEALANT
SOFFIT VENT			ALUMINUM CONTINUOUS SOFFIT VENT, BROWN FINISH
SPRAY FOAM INSULATION	DOW	FROTH-PAK POLYURETHANE FOAM	GENERAL INSULATION TO FILL VOIDS AND CRACKS AT FRAMING & PENETRATIONS
THERMAL THRESHOLD	PEMKO MANUFACTURING	1718_HEAVY DUTY	
VAPOR RETARDER	HUSKY	6-MIL POLYETHYLENE SHEETING	CLEAR, REINFORCED
WATER-PROOFING MEMBRANE	GCP APPLIED TECHNOLOGIES	BITUTHENE 3000	INSTALL WITH MANUFACTURER REQUIRED PRIMER
WOOD TRIM (EXTERIOR)		TO MATCH EXISTING	
WOOD TRIM (INTERIOR)		3/4" S4S HEMLOCK	PAINTED

2 TYPICAL ROOF ASSEMBLY
1 1/2" = 1'-0"



- NOTES:**
1. RAISE MICRO-LAM BOX HEADER TO ACCOMMODATE LARGER OPENING.
 2. REPLACE 4x8 TRIMMERS W/ 4x8 DF#1 TRIMMERS AND SIMPSON ACE6 COLUMN CAP.

1 FLOOR PLAN
1/8" = 1'-0"



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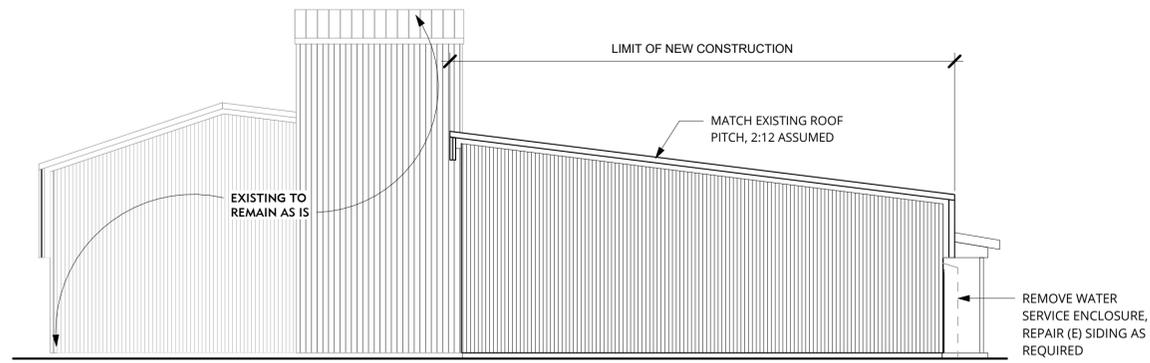
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CITY OF DILLINGHAM

ALEKNAGIK LAKE ROAD FIRE HALL ADDITION
DILLINGHAM, ALASKA

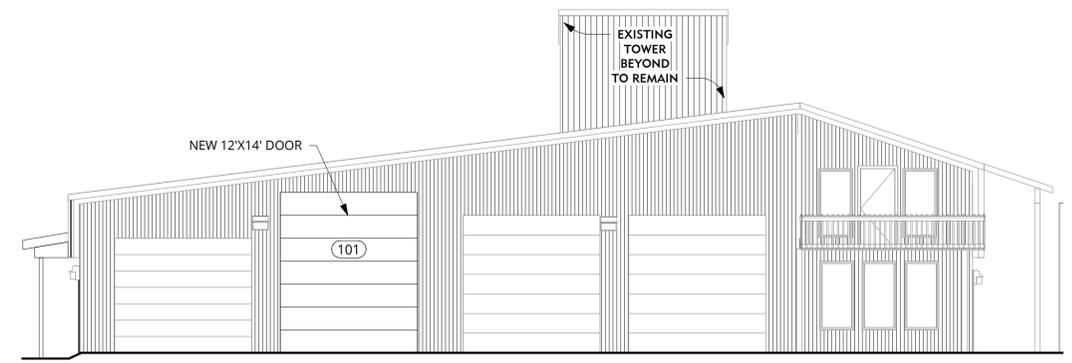
FLOOR PLAN

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DRAWN BY:	JR/MDC
CHECKED BY:	RW
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SHEET NUMBER	A1 OF 4



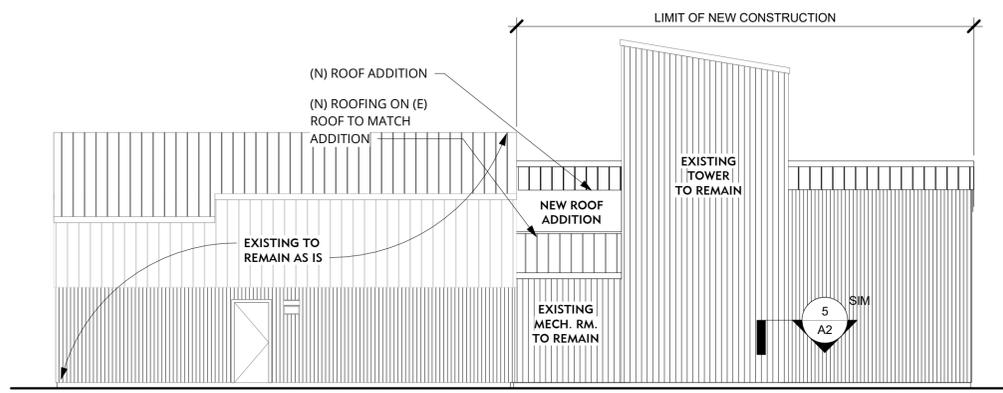
1 REAR ELEVATION
A2

1/8" = 1'-0"



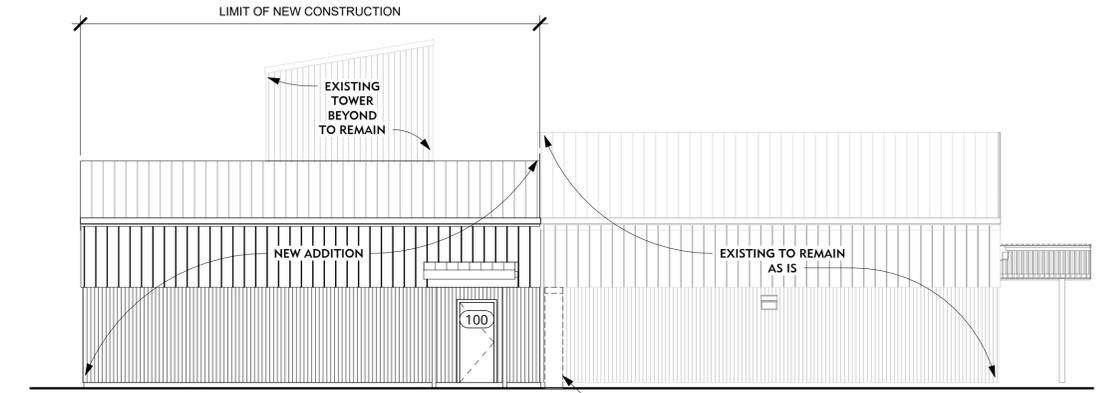
2 FRONT ELEVATION
A2

1/8" = 1'-0"



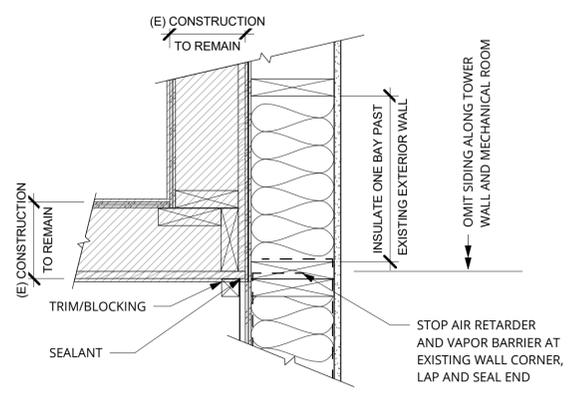
3 RIGHT ELEVATION
A2

1/8" = 1'-0"



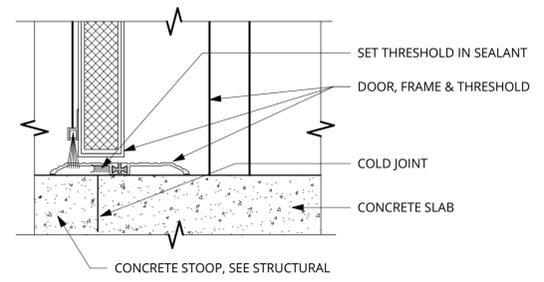
4 LEFT ELEVATION
A2

1/8" = 1'-0"



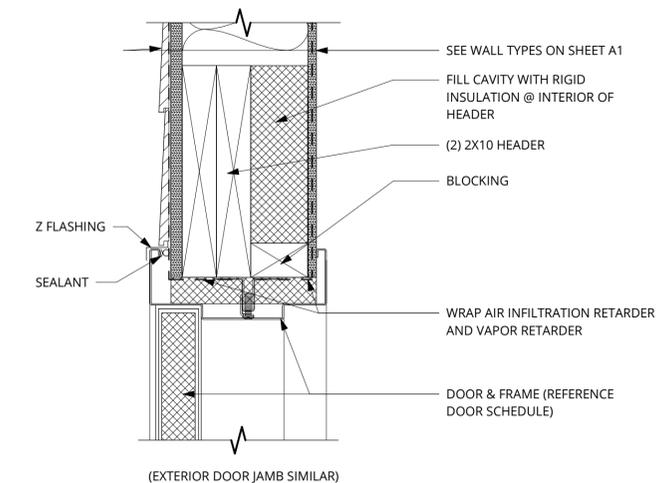
5 CORNER DETAIL - HOSE TOWER
A2

1 1/2" = 1'-0"



6 DOOR THRESHOLD
A2

3" = 1'-0"



7 EXT DOOR HEAD
A2

3" = 1'-0"

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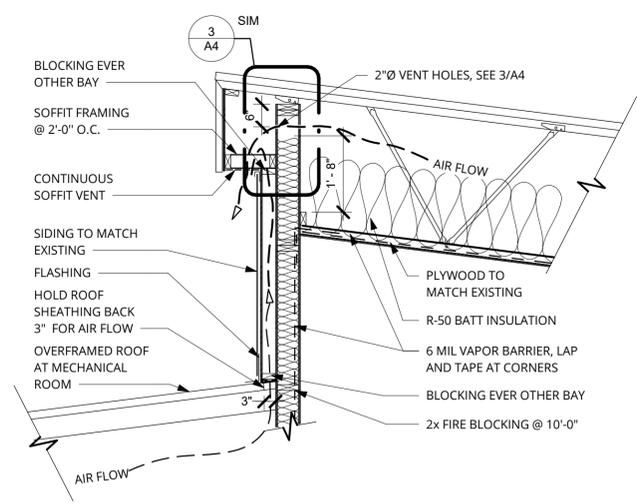
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ALEKNAGIK LAKE ROAD FIRE HALL ADDITION
DILLINGHAM, ALASKA
ELEVATIONS

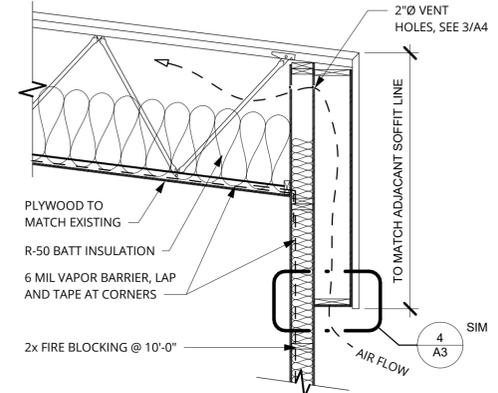
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DESIGNED BY: RW
DRAWN BY: JR/MDC
CHECKED BY: RW
DATE: 05/11/2020
FILE NO. 1142.01

CONSTRUCTION DOCUMENTS

SHEET NUMBER
A2 OF **4**

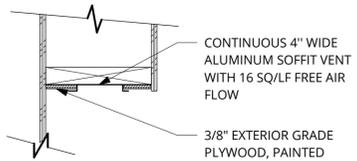


6 HIGH EAVE DETAIL
1/2" = 1'-0"

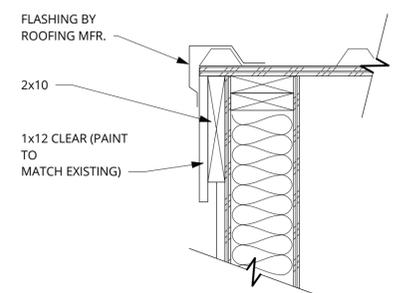


SIMILAR AT HIGH EAVE

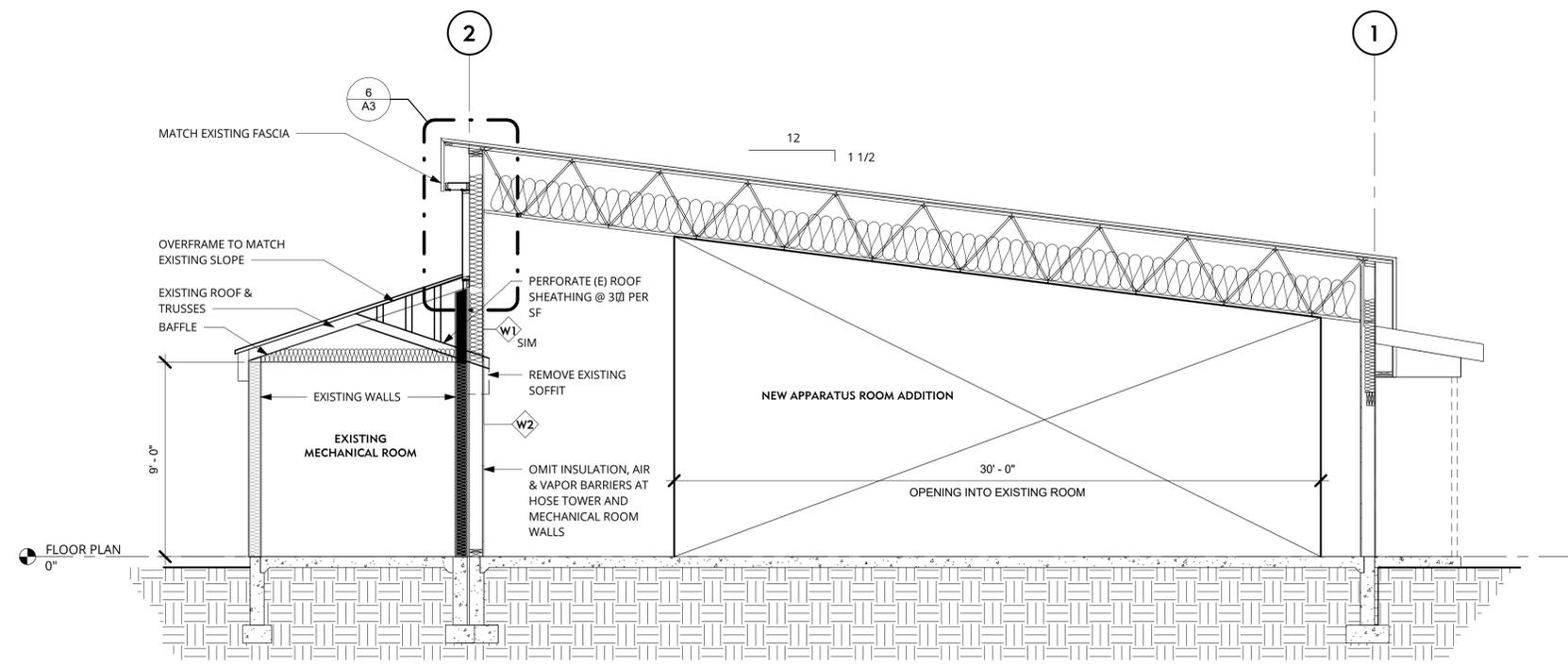
3 LOW EAVE DETAIL
1/2" = 1'-0"



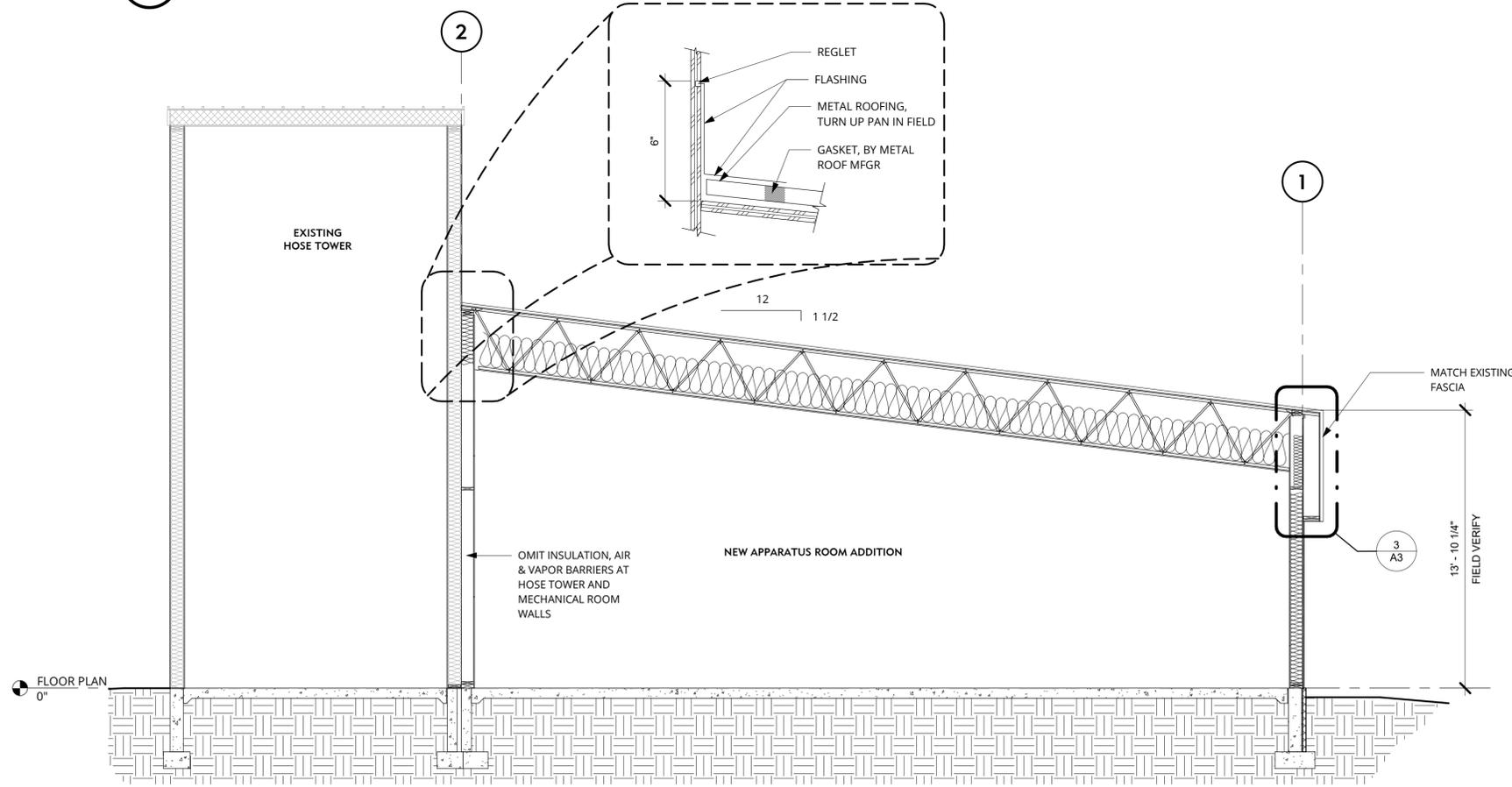
4 SOFFIT VENT (TYP)
1 1/2" = 1'-0"



5 RAKE DETAIL
1 1/2" = 1'-0"



1 SECTION AT MECHANICAL ROOM
1/4" = 1'-0"



2 SECTION AT HOSE TOWER
1/4" = 1'-0"

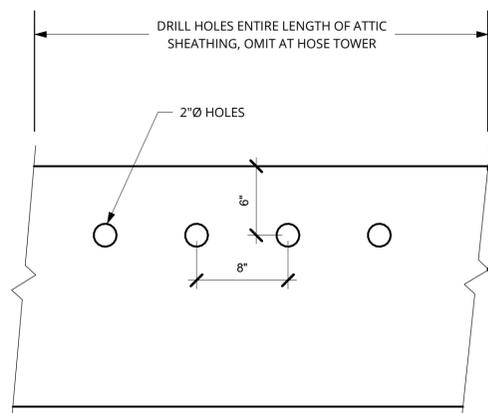
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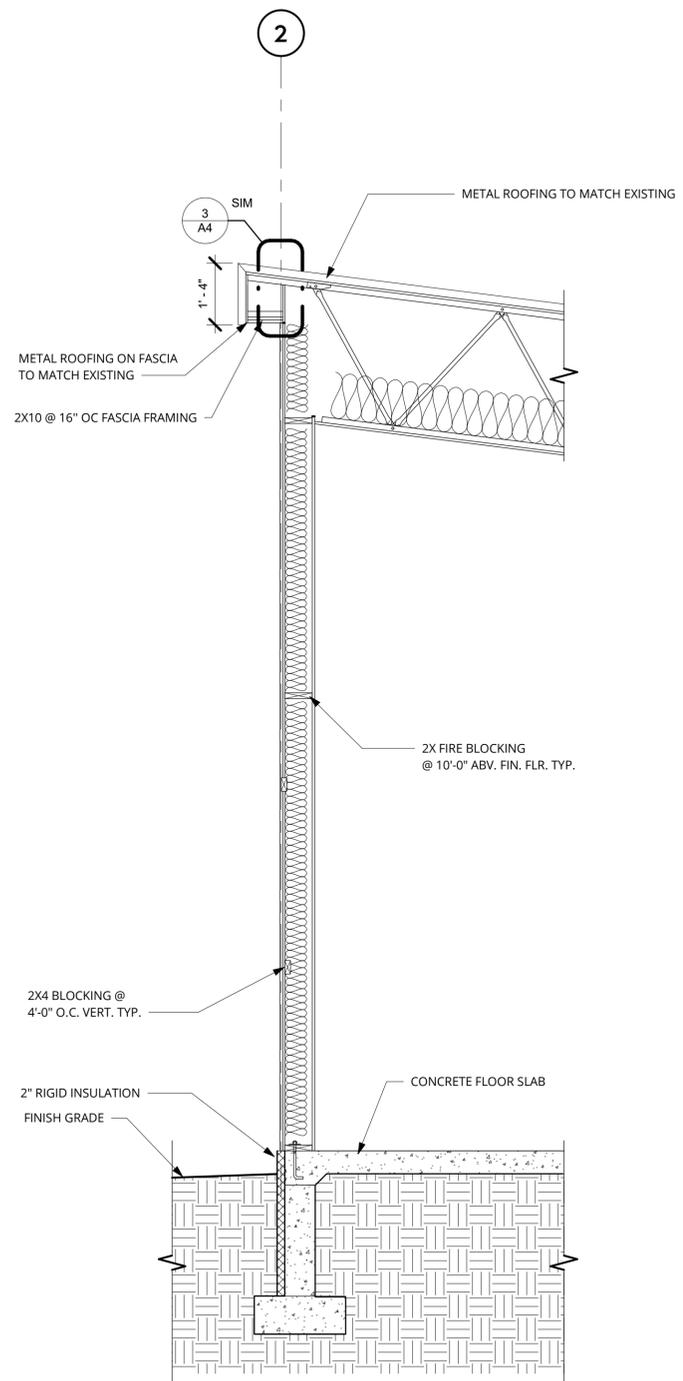
ALEKNAGIK LAKE ROAD FIRE HALL ADDITION
DILLINGHAM, ALASKA
BUILDING AND WALL SECTIONS

SHEET SIZE: 34x22
DESIGNED BY: RW
DRAWN BY: JR
CHECKED BY: RW
DATE: 05/11/2020
FILE NO. 1142.01

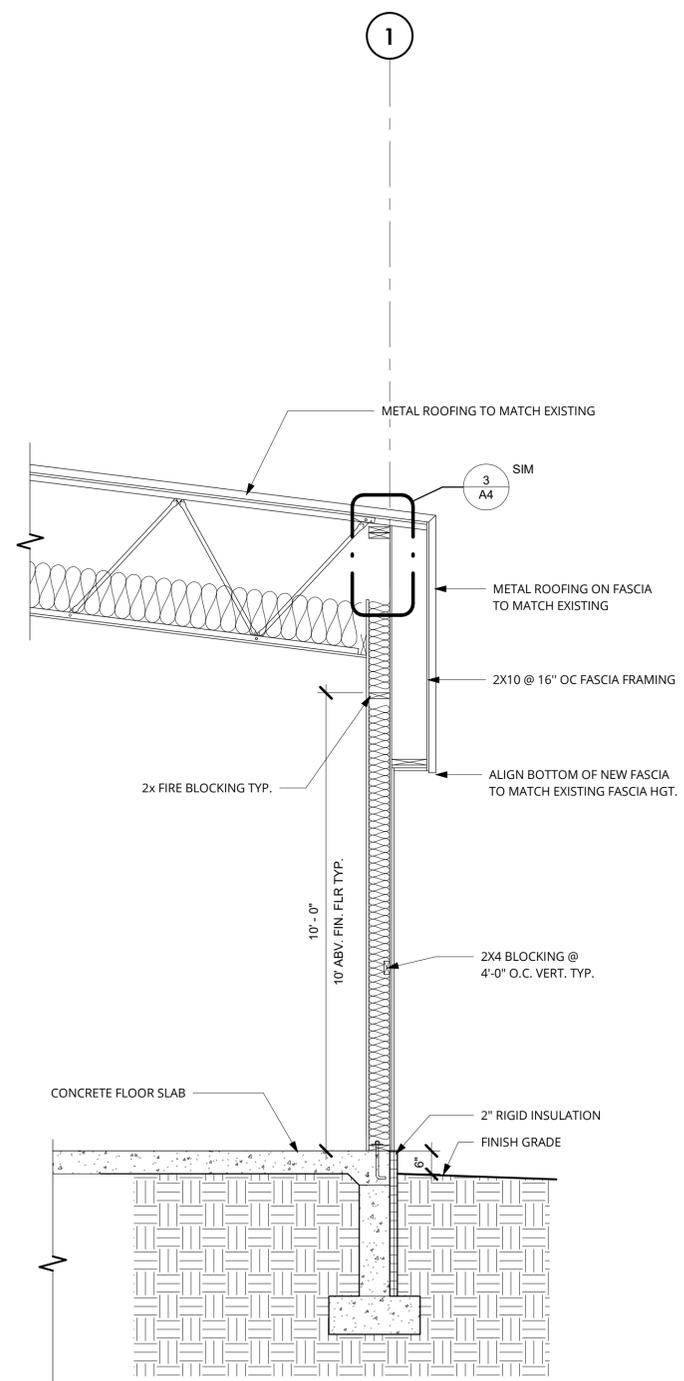
SHEET NUMBER
A3 OF **4**



3 ATTIC VENTILATION DETAIL
 A4 1 1/2" = 1'-0"



2 WALL SECTION - HIGH EAVE
 A4 1/2" = 1'-0"



1 WALL SECTION - LOW EAVE
 A4 1/2" = 1'-0"

ONE INCH (1")

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 ADDITION
 DILLINGHAM, ALASKA

WALL SECTIONS

SHEET SIZE:	34x22
DESIGNED BY:	RW
DRAWN BY:	JR
CHECKED BY:	RW
DATE:	05/11/2020
FILE NO.	1142.01

SHEET NUMBER
A4 OF **4**

DESIGN CRITERIA

CODES AND STANDARDS PER INTERNATIONAL BUILDING CODE (IBC) 2009 IN ADDITION TO DEAD LOADS, THE FOLLOWING MINIMUM LIVE LOADS APPLY TO THE CONSTRUCTION OF ALL BUILDINGS AND FACILITIES SHOWN UNLESS OTHER- WISE NOTED.

OCCUPANCY CATEGORY: IV

FLOOR LOADINGS: 250psf DEAD LOAD & 10,000lb POINT LOAD

ROOF LIVE LOAD: 80psf SNOW

WIND LOADS:
 BASIC WIND SPEED 130mph, 3 SECOND GUST
 IMPORTANCE FACTOR 1.15
 EXPOSURE "B"
 HORIZONTAL DISTANCE "a" 4.0 feet
 C&C (20sf) FIGURE 30.5-1 (ASCE 7-10)
 ZONE 1 11.6psf, -29.6psf
 ZONE 2 11.6psf, -45.6psf
 ZONE 3 11.6psf, -63.6psf
 ZONE 4 29.0psf, -31.6psf
 ZONE 5 29.0psf, -38.0psf
 OH ZONE 2 -43.0psf
 OH ZONE 3 -56.6psf

SEISMIC LOADS:
 SEISMIC DESIGN GROUP "D"
 IMPORTANCE FACTOR 1.5
 SPECTRAL RESPONSE COEF Sds=0.276
 Sd1=0.196
 SITE CLASS "D"
 BASIC FORCE SYSTEM WOOD WITH SHEATHING R = 6.5
 DESIGN BASE SHEAR 29.6 Kips
 METHOD OF ANALYSIS EQUIVALENT LATERAL FORCE

GEOTECHNICAL INFORMATION WAS NOT PROVIDED.

STRUCTURAL NOTES

1. THE STRUCTURE SHOWN ON THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN ITS COMPLETED FORM. THE STABILITY OF THIS STRUCTURE DEPENDS ON THE DIAPHRAGM AND BRACING MEMBERS SHOWN. THE CONTRACTOR IS TO PROVIDE FOR THE DESIGN AND CONSTRUCTION OF SHORING FOR ALL EARTH, FORMS, CONCRETE, STEEL, WOOD, AND MASONRY TO RESIST GRAVITY, EARTH, WIND, SEISMIC, AND CONSTRUCTION LOADS. SHORING SHALL REMAIN IN PLACE UNTIL ALL DIAPHRAGM AND LATERAL RESISTING ELEMENTS ARE IN PLACE IN THEIR ENTIRETY.

2. EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO MECHANICAL, PLUMBING OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL COORDINATE THIS INFORMATION WITH THE INVOLVED TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS SHALL BE BORNE BY THE APPROPRIATE CONTRACTOR.

2. SHOP DRAWINGS SHALL BE SUBMITTED IN THE FORM OF FULL SIZED PDF FILES. THE PURPOSE OF SHOP DRAWINGS SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE STRUCTURAL ENGINEER THAT HE UNDERSTANDS THE DESIGN CONCEPT BY INDICATING WHICH MATERIALS HE INTENDS TO FURNISH AND INSTALL, AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS HE INTENDS TO USE. PRIOR TO FABRICATION, SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW TO THE STRUCTURAL ENGINEER. SHOP DRAWINGS SUBMITTALS SHALL INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO STRUCTURAL STEEL, REINFORCED STEEL, PRE-FABRICATED WALL PANELS. PRIOR TO SUBMISSION THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND SHALL STAMP SUBMITTALS AS BEING "REVIEWED FOR CONFORMANCE". SHOP DRAWINGS SUBMITTALS PROCESSED BY THE STRUCTURAL ENGINEER ARE NOT CHANGE ORDERS. ANY DETAIL ON THE SHOP DRAWING THAT DEVIATES FROM THE CONTRACT DOCUMENTS SHALL CLEARLY BE MARKED WITH THE NOTE "THIS IS A CHANGE". SHOP DRAWINGS OR CALCULATIONS SUBMITTED FOR REVIEW THAT REQUIRE RESUBMITTAL FOR RE-REVIEW SHALL BE BILLED HOURLY FOR SUCH TIME TO THE GENERAL CONTRACTOR. RE-REVIEW WILL NOT PROCEED WITHOUT WRITTEN APPROVAL FROM THE GENERAL CONTRACTOR FOR ADDITIONAL ENGINEERING REVIEW SERVICES.

3. SPECIAL INSPECTIONS REQUIRED FOR THIS PROJECT BY CHAPTER 17 OF THE IBC SHALL BE PROVIDED DURING CONSTRUCTION. THE ENGINEER OF RECORD OR OTHER LICENSED AND CERTIFIED INDIVIDUALS SHALL BE RETAINED FOR THESE INSPECTIONS AND SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODES.

1. CONCRETE (IBC TABLE 1705.3):
 REINFORCING STEEL PLACEMENT (PERIODIC)
 ANCHORS CAST IN CONCRETE (PERIODIC)
 MIX DESIGN (PERIODIC)
 SLUMP, AIR CONTENT AND TEMPERATURE (CONTINUOUS)
 BREAK TESTS (CONTINUOUS)
 CONCRETE PLACEMENT (CONTINUOUS)
 TEMPERATURE MAINTENANCE (PERIODIC)
 FORMWORK LOCATIONS AND DIMENSIONS (PERIODIC)
2. SOILS (IBC TABLE 1705.6):
 EXCAVATION LOCATIONS AND PLACEMENT (PERIODIC)
 FILL MATERIAL CLASSIFICATION (PERIODIC)
 SUBGRADE PREPARATION (PERIODIC)
 COMPACTION TESTS (CONTINUOUS)
 LIFT THICKNESSES (CONTINUOUS)
3. STRUCTURAL WOOD (IBC 1705.10.1 & 1705.11.2):
 HOLDOWNS, HANGERS, BLOCKING (PERIODIC)
 DIAPHRAGM THICKNESS AND FASTENING (CONTINUOUS)
 SHEARWALL THICKNESS AND FASTENING (CONTINUOUS)



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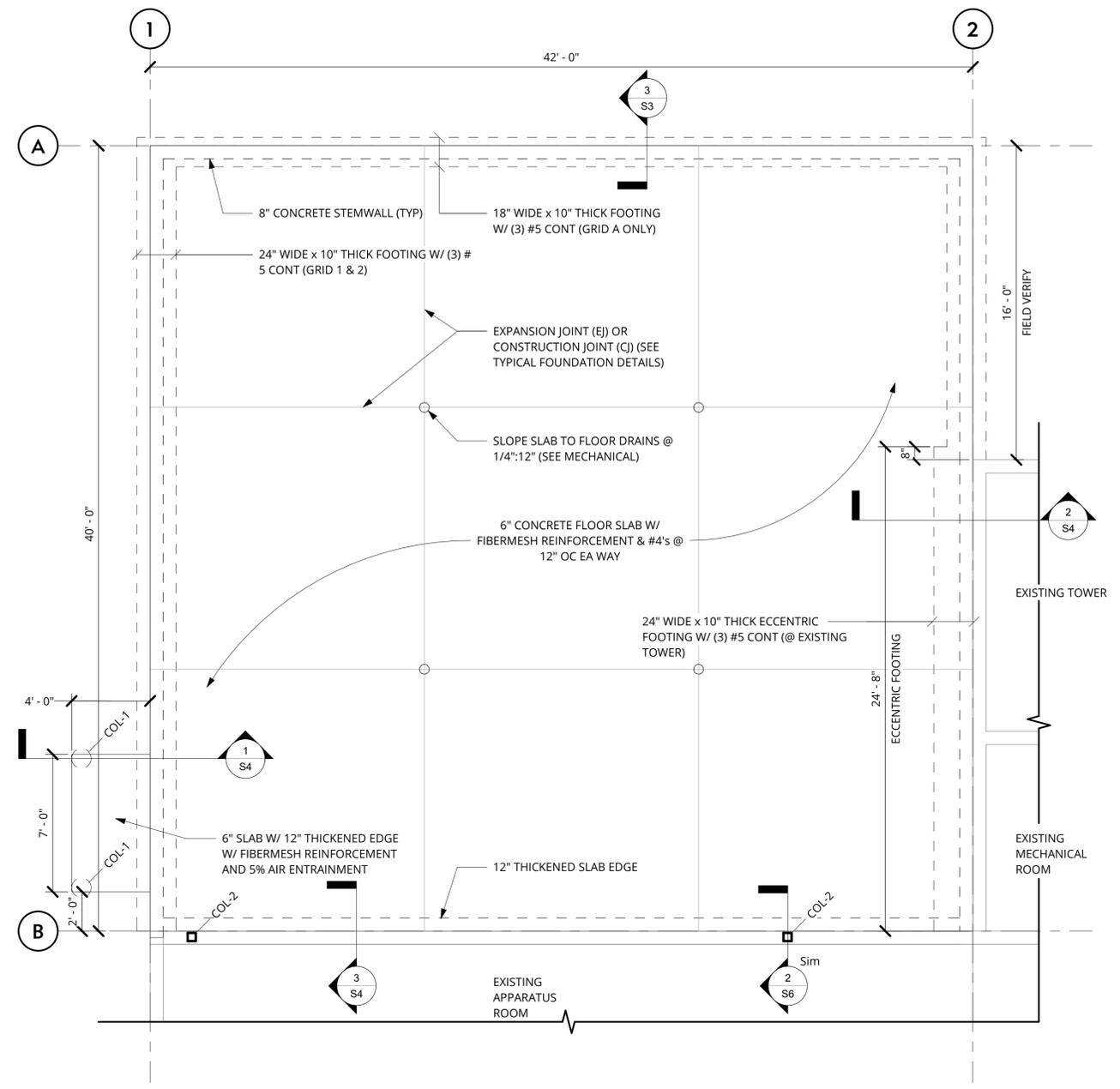
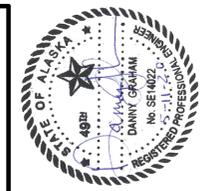
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LAKE ROAD FIRE HALL ADDITION
DILLINGHAM, ALASKA
DESIGN CRITERIA AND NOTES

SHEET SIZE:	34x22
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FILE NO.	1142.01



100% DESIGN

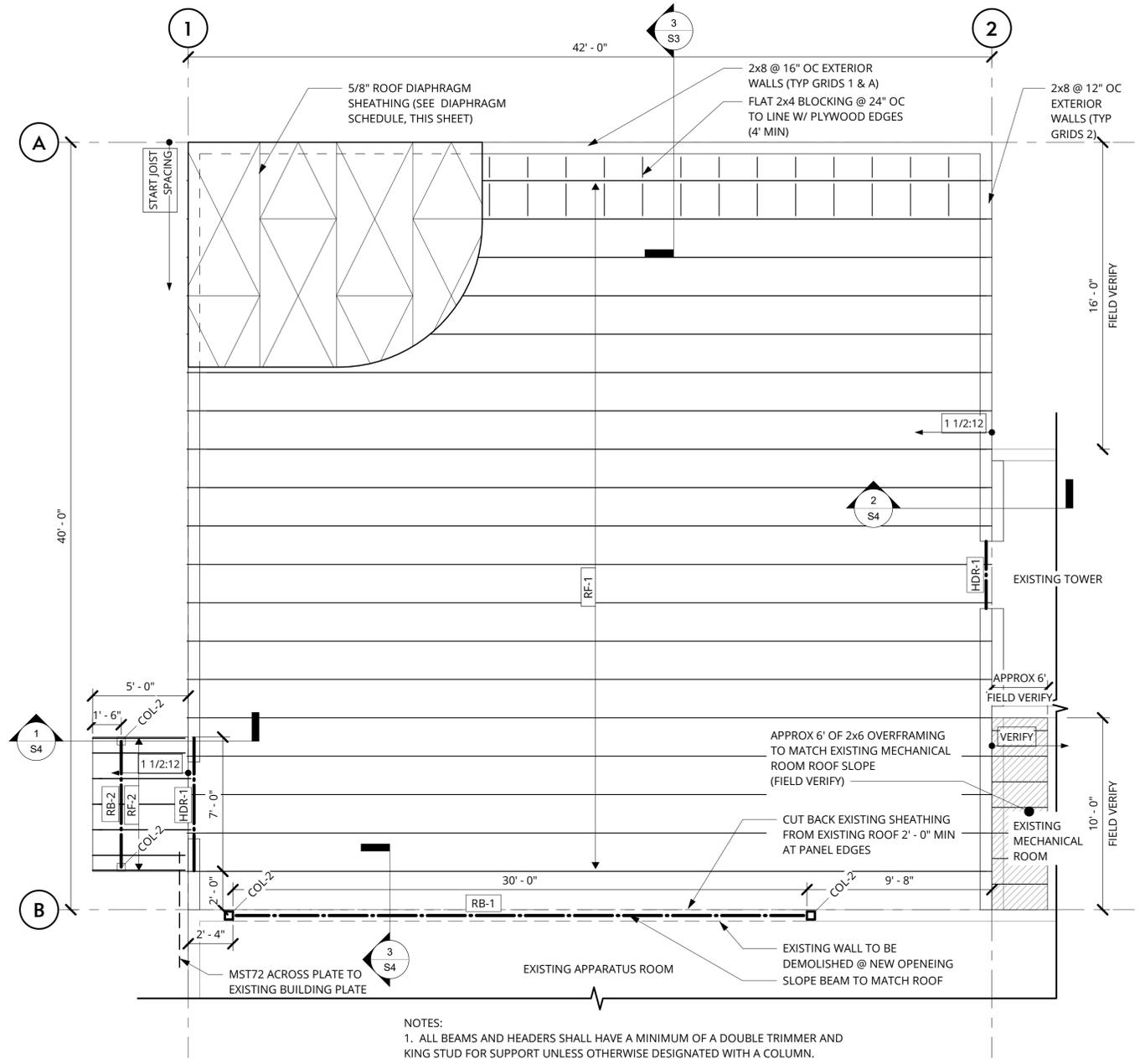
SHEET NUMBER
S1 OF **6**



1 FOUNDATION PLAN
S2

1/4" = 1'-0"

COLUMN SCHEDULE		
Type Mark	Type/Size	Description
COL-1	12" Ø CONCRETE	CONCRETE FILLED SONOTUBE TO 72" BGS
COL-2	HSS 5x5x1/4	W/ SIMPSON ECCO CAP



2 ROOF FRAMING PLAN
S2

1/4" = 1'-0"

DIAPHRAGM SCHEDULE						
SPECIAL FASTENING AND BLOCKING CONDITIONS ARE NOTED ON FRAMING PLANS						
LOCATION	SHEATHING	FASTENER SPACING			FASTENERS	COMMENTS
		BOUNDARY	EDGE	FIELD		
ROOFS	5/8" CDX 32/16 APA-RATED	4" OC	6" OC	12" OC	3 x 0.148 (10d)	BLOCKING AS NOTED

ROOF FRAMING SCHEDULE		
Type Mark	Type/Size	Description
HDR-1	2x10 BOX HEADER	DF#1
RB-1	6 3/4" x 18"	24F-V4 GLB
RB-2	6x12	PRESSURE TREATED DF#1
RF-1	36" RED-H	REDBUILT RED-H @ 24" OC
RF-2	2x10	PRESSURE TREATED DF#1 @ 16" OC

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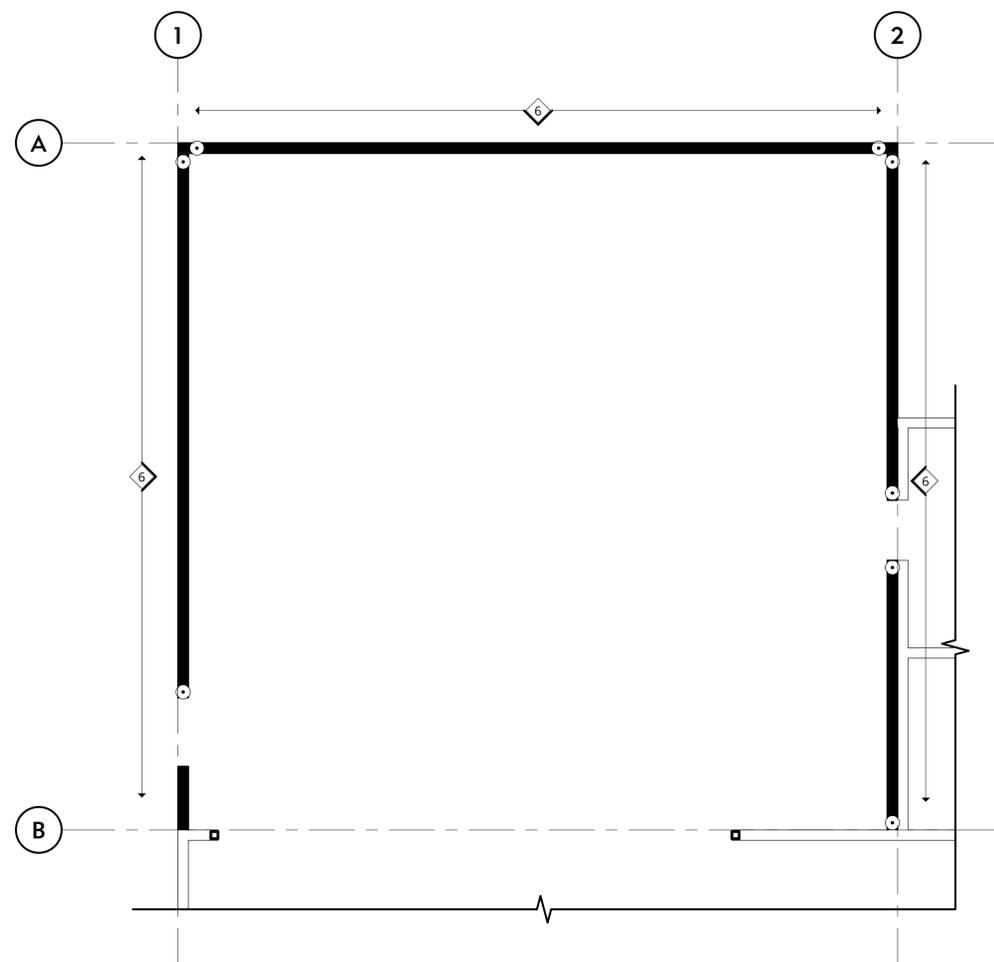
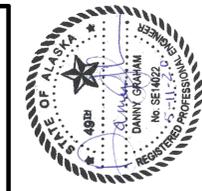
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LAKE ROAD FIRE HALL ADDITION
DILLINGHAM, ALASKA

FOUNDATION AND ROOF FRAMING PLAN

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SHEET NUMBER	6

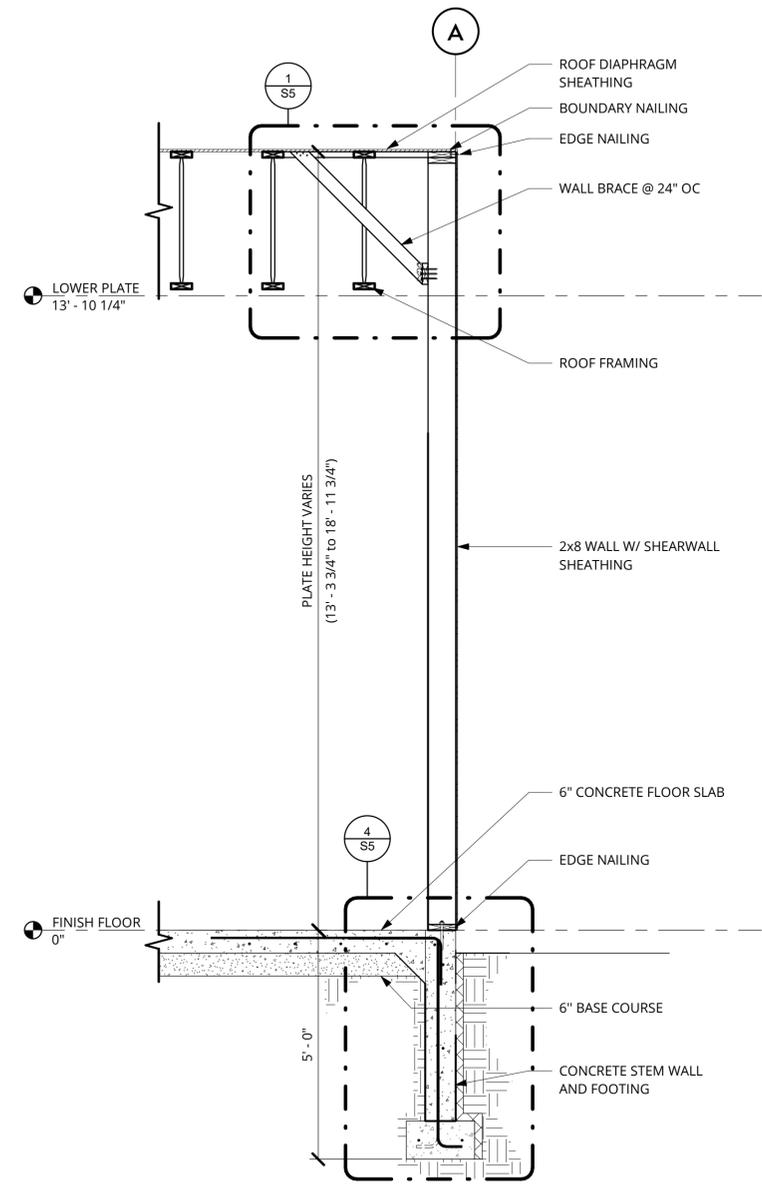


1 SHEARWALL PLAN
S3

3/16" = 1'-0"

SHEARWALL SCHEDULE:	REMARKS:	SILL PLATE BOLTING:
6 15/32" OSB SHEATHING W/ 8d @ 6" OC ALL EDGES	SEE NOTES	5/8" Ø x 9" ANCHOR BOLT @ 32" OC
LEGEND:		
	SIMPSON HDU8-SDS2.5 W/ SIMPSON SB7/8x24 BOLTING	
	WOOD SHEARWALL	
	EXISTING WALL	

- NOTES:**
- SEE DIAPHRAGM SCHEDULE FOR FASTENER SIZING AND SPACING.
 - ALL PLYWOOD EDGES MUST BE SUPPORTED.
 - FIELD NAILING FOR SHEARWALLS SHALL BE 12" OC MAXIMUM.
 - ALL ANCHOR BOLTS SHALL BE HOT DIPPED GALVANIZED.
 - SIMPSON HOLD-DOWNS MUST BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
 - SIMPSON HDU8 TO BE INSTALLED TO A DF#1 WOOD MEMBER WITH MINIMUM THICKNESS OF 5 1/2".
 - SILL PLATE ON CONCRETE SHALL BE PRESSURE TREATED AND ALL NAILS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.



3 Section 1
S3

1/2" = 1'-0"

ONE INCH (1")

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LAKE ROAD FIRE HALL ADDITION
DILLINGHAM, ALASKA

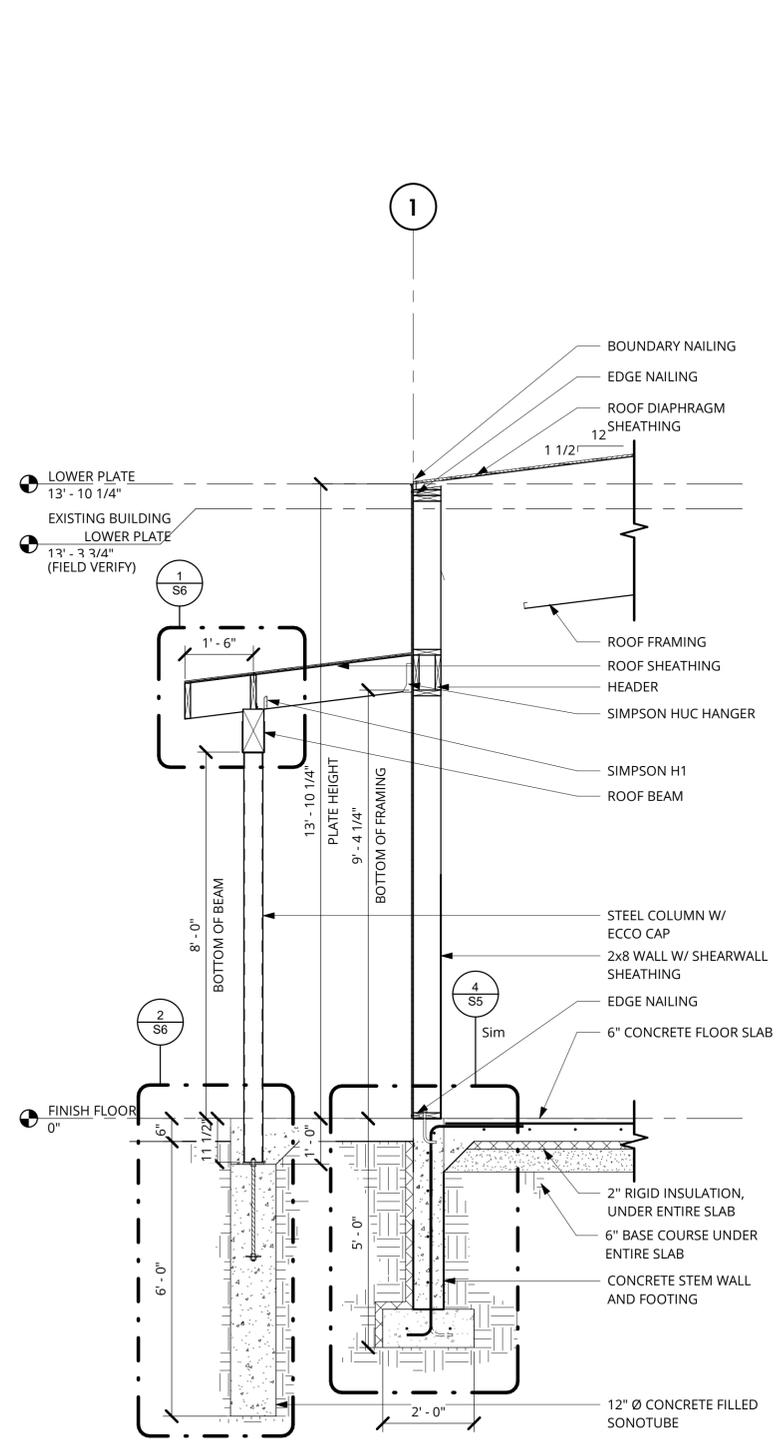
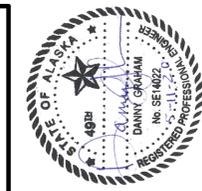
SHEARWALL PLAN AND SECTIONS

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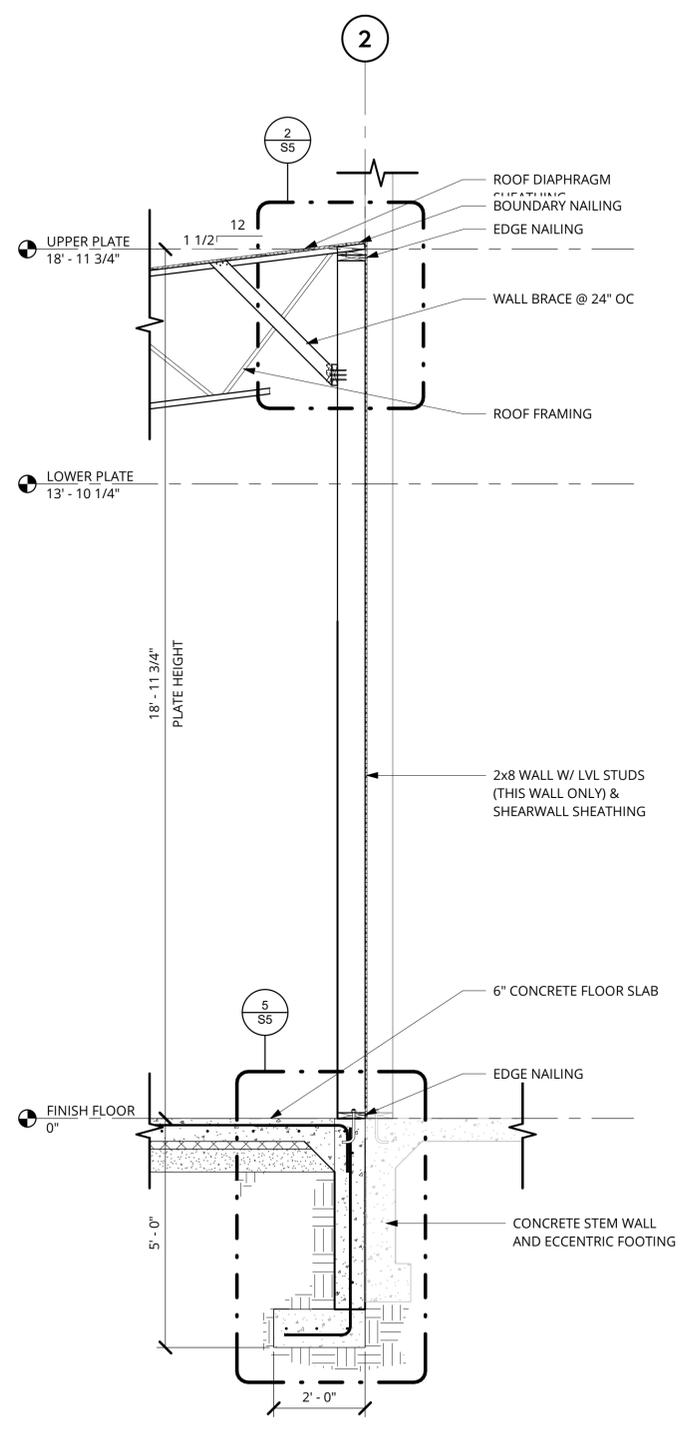
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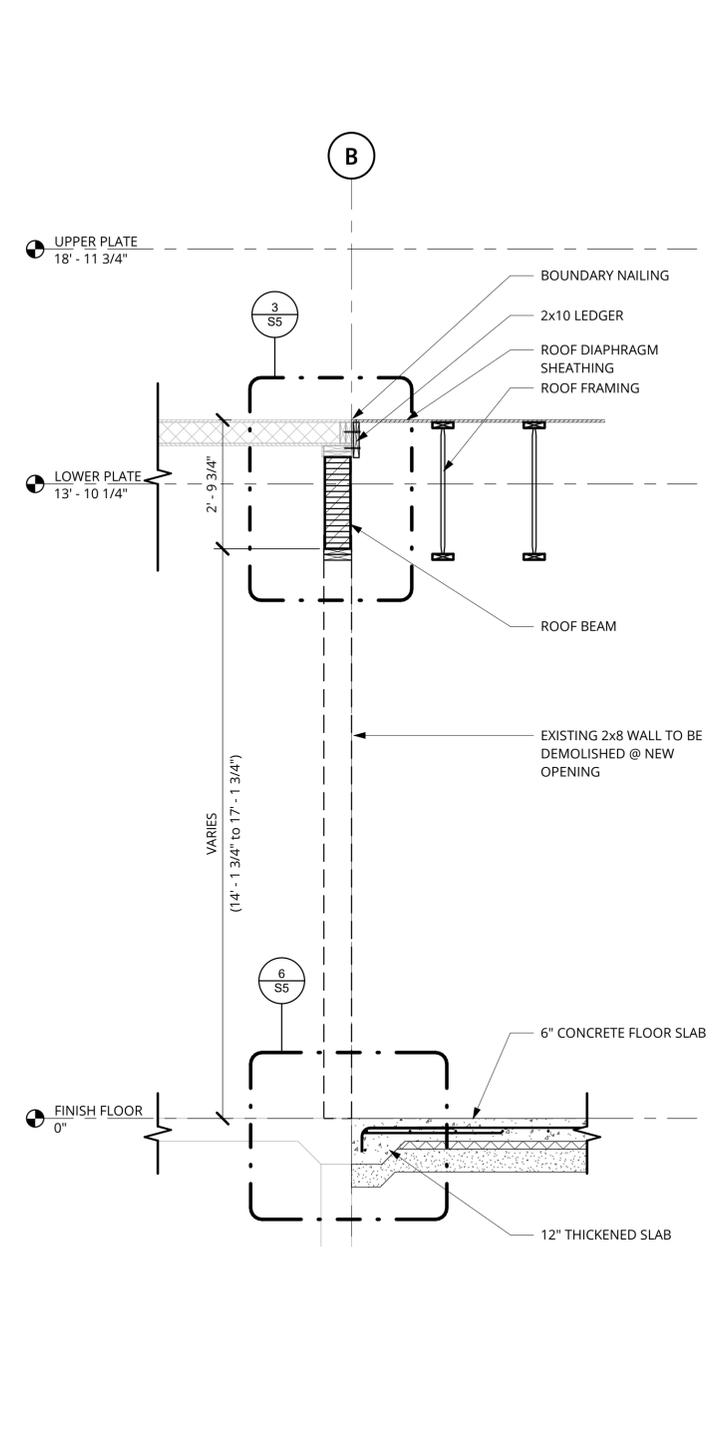
100% DESIGN



1 Section 2
S4 1/2" = 1'-0"



2 Section 3
S4 1/2" = 1'-0"



3 Section 4
S4 1/2" = 1'-0"

ONE INCH (1")

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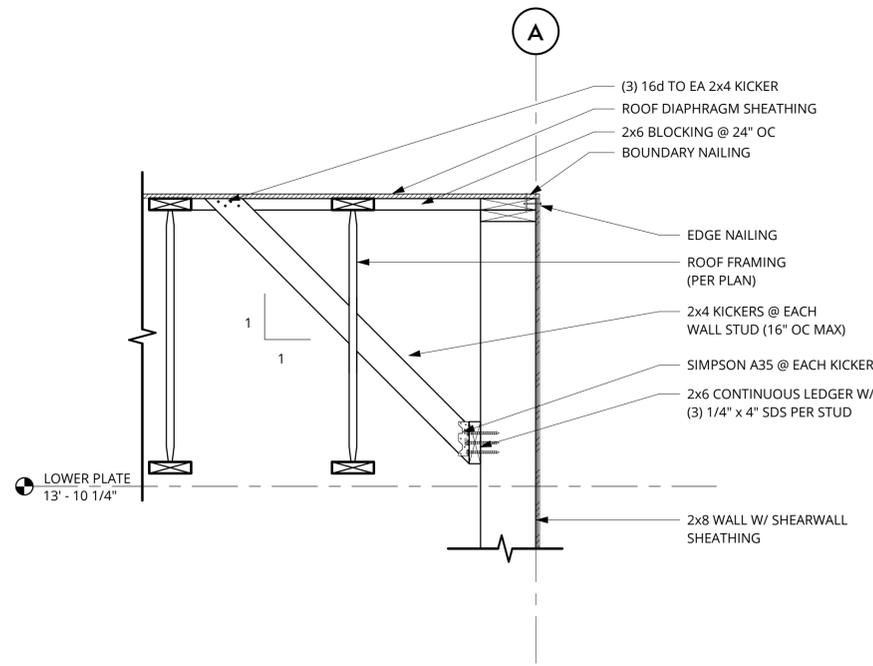
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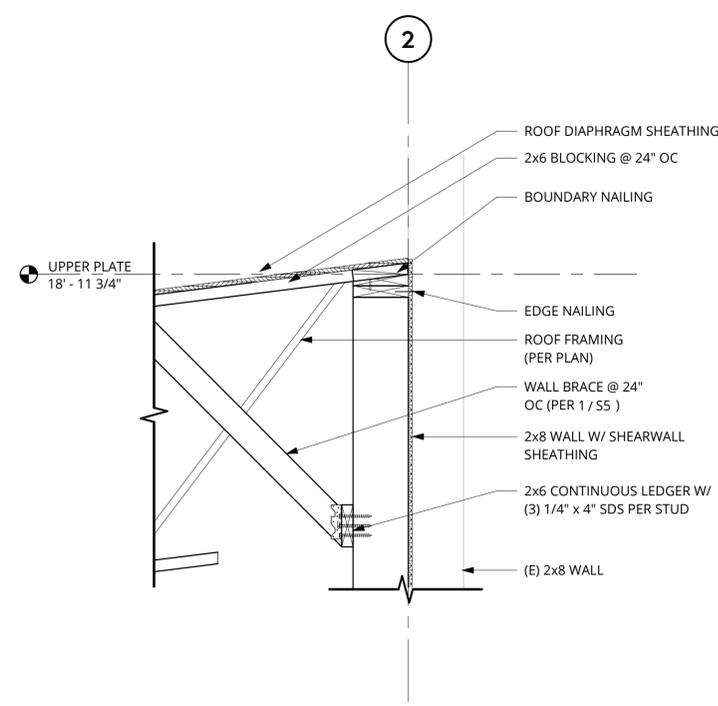
LAKE ROAD FIRE HALL ADDITION
DILLINGHAM, ALASKA

SECTIONS

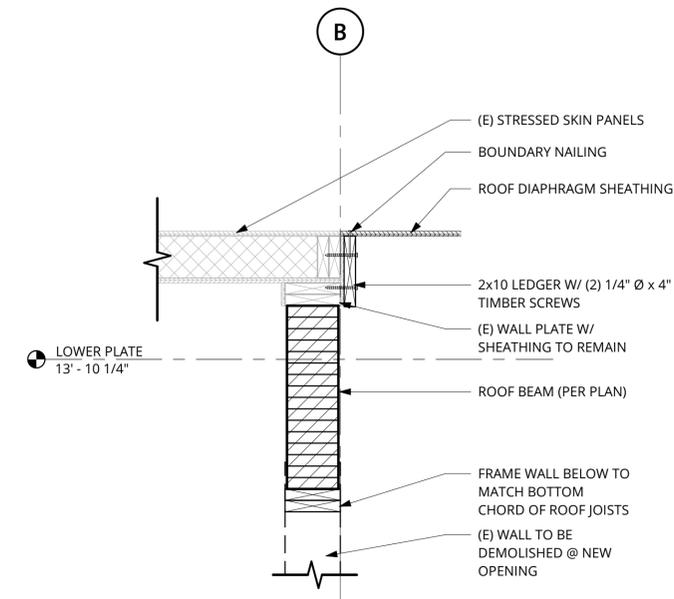
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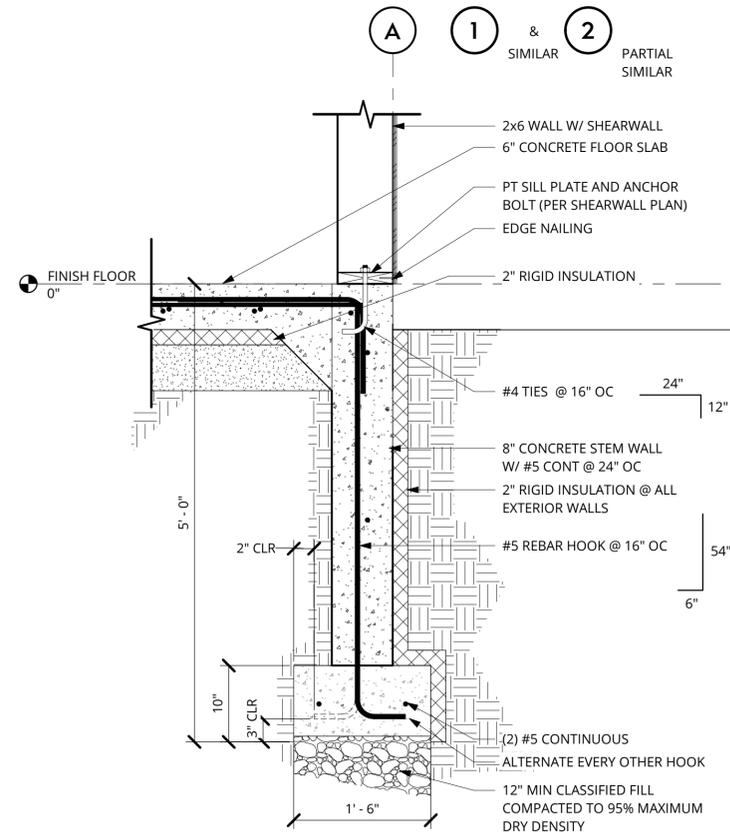
1 END WALL CONNECTION TO ROOF
S5 1" = 1'-0"



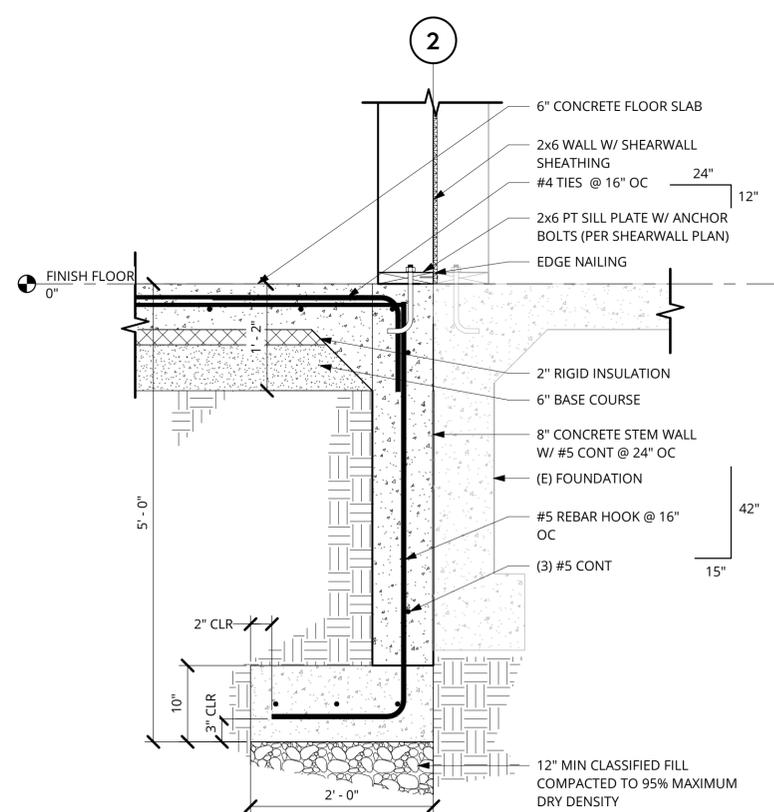
2 ROOF CONNECTION DETAIL
S5 1" = 1'-0"



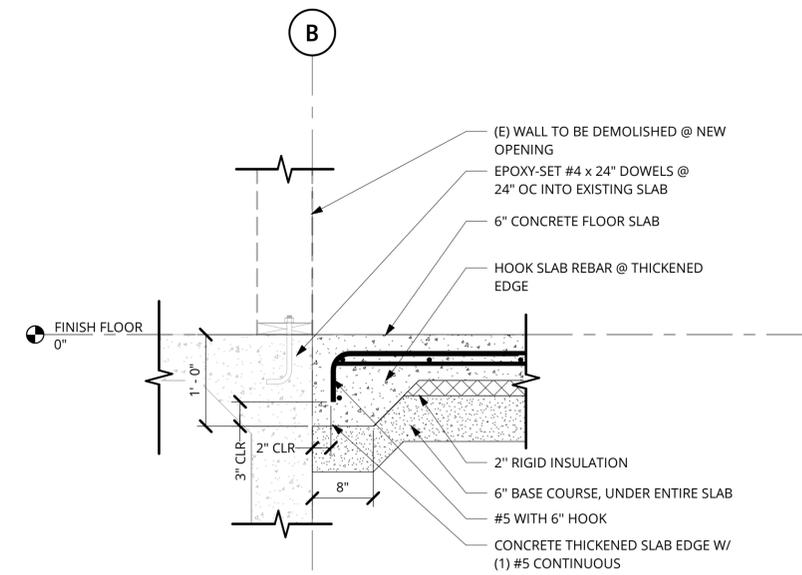
3 BEAM CONNECTION DETAIL
S5 1" = 1'-0"



4 TYPICAL FOOTING DETAIL
S5 1" = 1'-0"



5 ECCENTRIC FOOTING DETAIL
S5 1" = 1'-0"



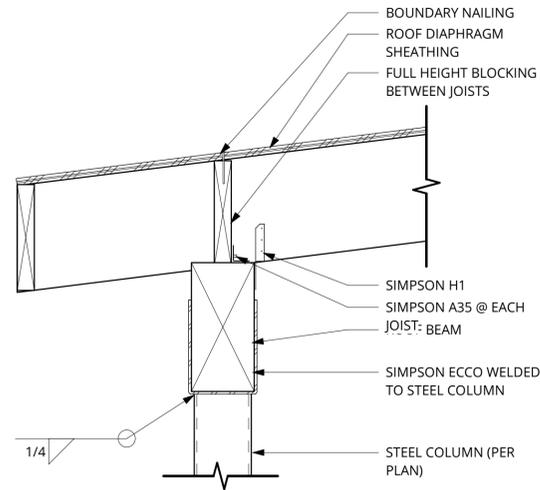
6 THICKENED EDGE DETAIL
S5 1" = 1'-0"

NO	DATE	BY	REVISION

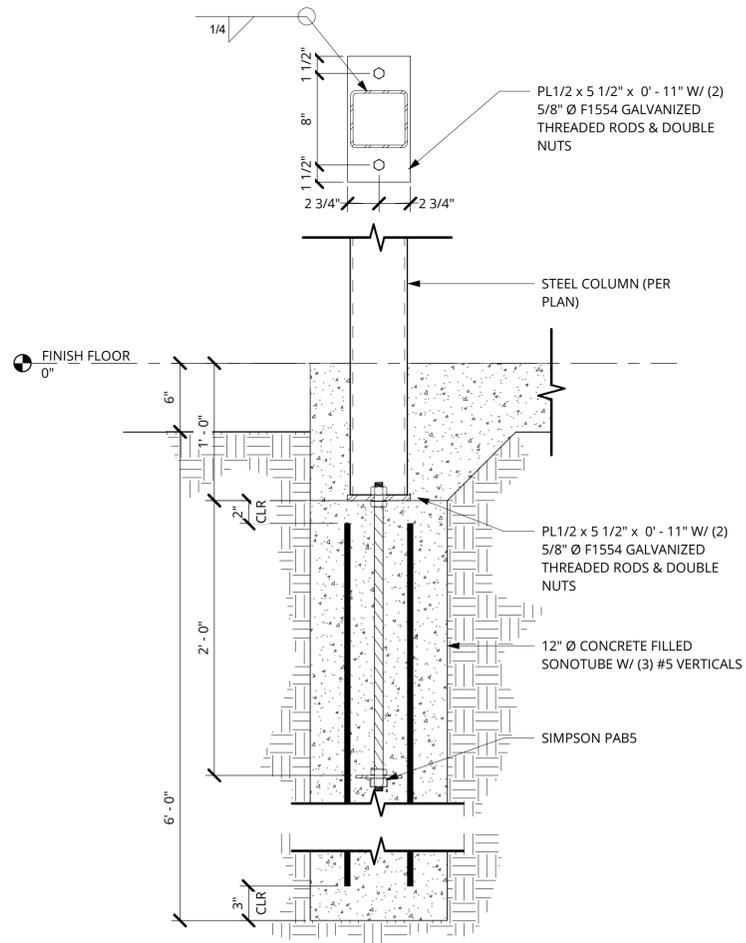
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LAKE ROAD FIRE HALL ADDITION
 DILLINGHAM, ALASKA
 DETAILS

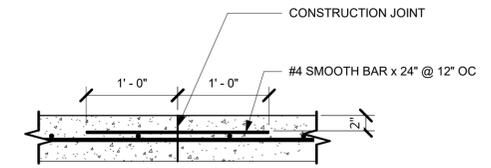
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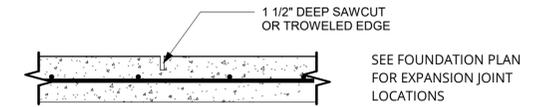
1 CANOPY HEADER DETAIL
S6 1 1/2" = 1'-0"



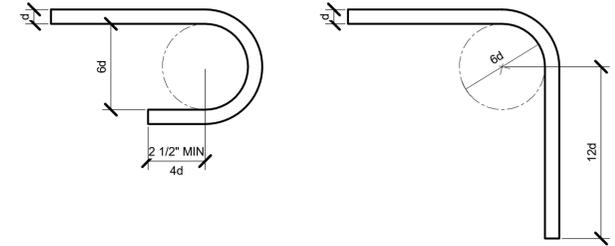
2 CANOPY FOOTING DETAIL
S6 1 1/2" = 1'-0"



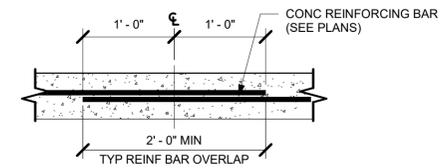
3 TYPICAL CONSTRUCTION JOINT (CJ)
S6 1" = 1'-0"



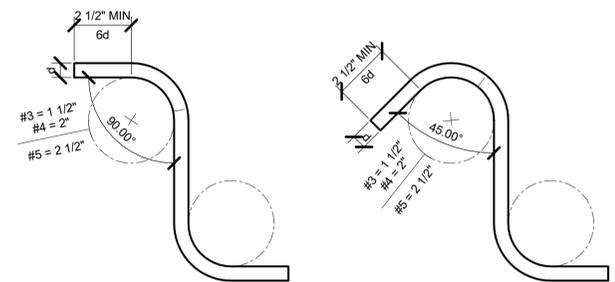
4 TYPICAL EXPANSION JOINT (EJ)
S6 1" = 1'-0"



5 TYPICAL REINFORCING HOOKS
S6 3" = 1'-0"



6 TYPICAL REINFORCING OVERLAP
S6 1" = 1'-0"



7 TYPICAL REINFORCING STIRRUPS
S6 3" = 1'-0"



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**LAKE ROAD FIRE HALL ADDITION
DILLINGHAM, ALASKA**
DETAILS

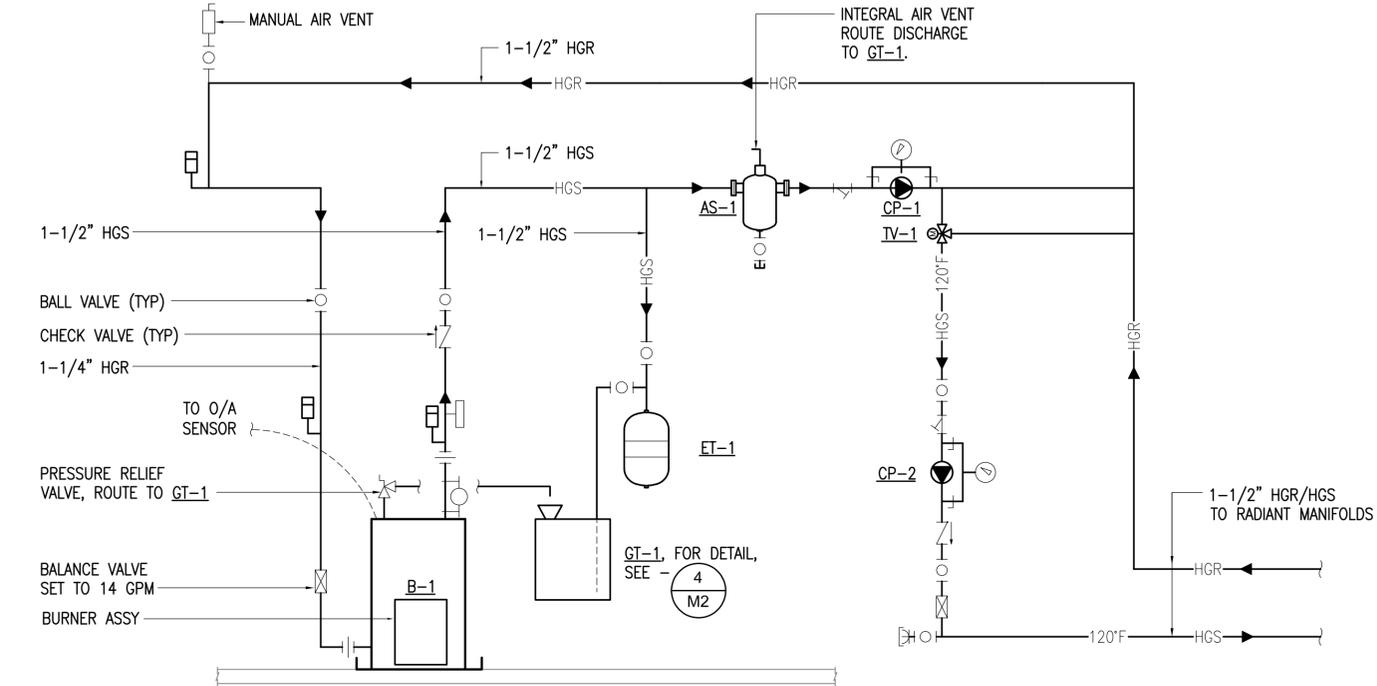
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DATE:	05/11/2020
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SHEET NUMBER	S6 OF 6

PUMP SCHEDULE - ALTERNATE #2

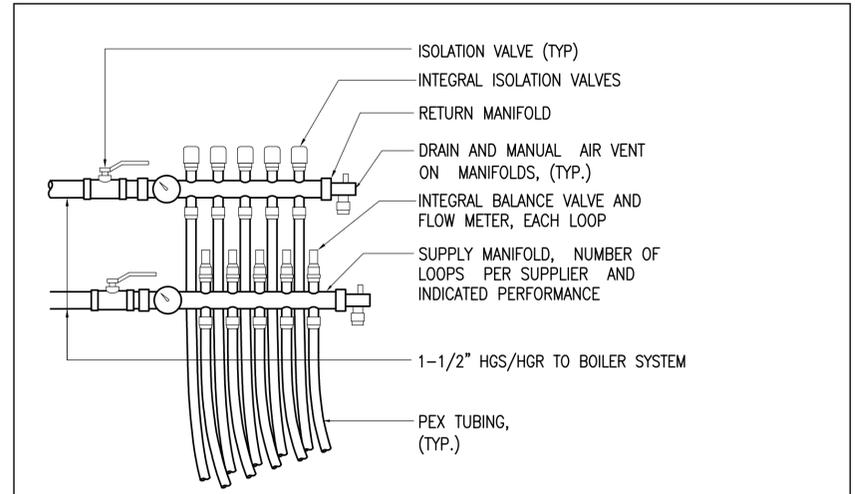
SYMBOL	MANUFACTURER	MODEL	FUNCTION	PUMPED		HEAD		ELECTRICAL		REMARKS
				MEDIUM	GPM	FEET	W	VOLTS/PH		
CP-1	GRUNDFOS	ALPHA2 15-55FC	BOILER CIRCULATION	50% P.G.	14	15	45	120/1	---	
CP-2	GRUNDFOS	UPS 32-160	BUILDING CIRCULATION	50% P.G.	14	37	625	240/1	SET TO SPEED 3.	

THERMOSTATIC MIXING VALVE SCHEDULE - ALTERNATE #2

SYMBOL	MFGR/MODEL	FINISH	INLET	OUTLET	TEMPERATURE RANGE F	PD @ FLOW RATE	REMARKS
TV-1	HONEYWELL AM102R-US-1	BRONZE	1"	1"	70° - 180° F	--	MAXIMUM FLOW RATE 16 GPM. SET DISCHARGE TEMPERATURE AT 120 DEG F.



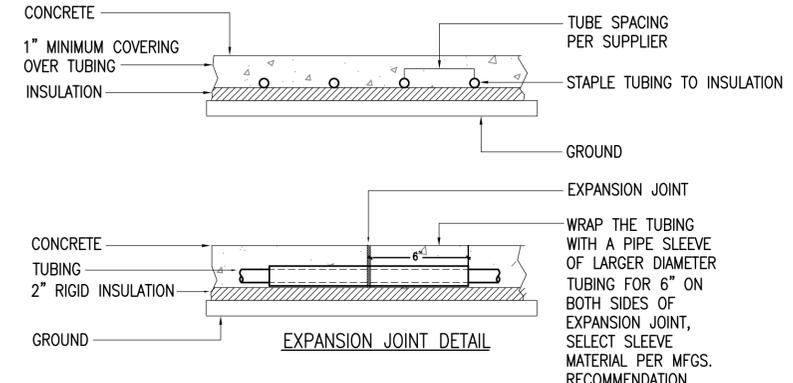
1 BOILER PIPING SCHEMATIC - ALTERNATE #2
NO SCALE



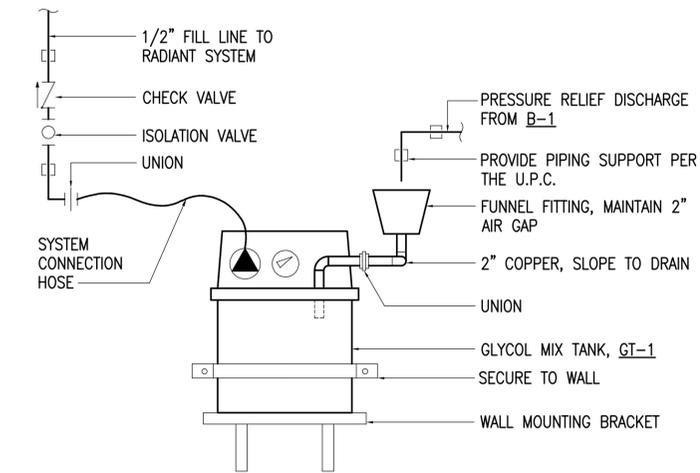
3 RADIANT MANIFOLD PIPING - ALTERNATE #1
NO SCALE

SEQUENCE OF OPERATION

CP-1 TO OPERATE CONTINUOUSLY FROM DISCONNECT.
BOILER CONTROLS TO MAINTAIN BOILER LOOP AT 160°F SUPPLY TEMPERATURE.
SPACE THERMOSTAT TO OPERATE PUMP CP-2 TO MAINTAIN SPACE TEMPERATURE. PROVIDE INTERSTITIAL RELAYS AS NECESSARY.



2 RADIANT TUBING INSTALLATION - ALTERNATE #1
NO SCALE



4 GLYCOL TANK DETAIL - ALTERNATE #2
NO SCALE



NO	DATE	BY	REVISION

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CITY OF DILLINGHAM

LAKE ROAD FIRE HALL ADDITION
MECHANICAL SCHEDULES, PIPING SCHEMATIC, DETAILS

SHEET SIZE:	34x22
DESIGNED BY:	CAA
DRAWN BY:	CAA
CHECKED BY:	MRB
DATE:	5/4/20
FILE NO.	M0014
SHEET NUMBER	M2 OF 9



ONE INCH (1")

NO	DATE	BY	REVISION

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LAKE ROAD FIRE HALL ADDITION
 UNDERFLOOR DEMOLITION PLAN

SHEET SIZE:	34x22
DESIGNED BY:	CAA
DRAWN BY:	CAA
CHECKED BY:	MRB
DATE:	5/4/20
FILE NO.	M0014

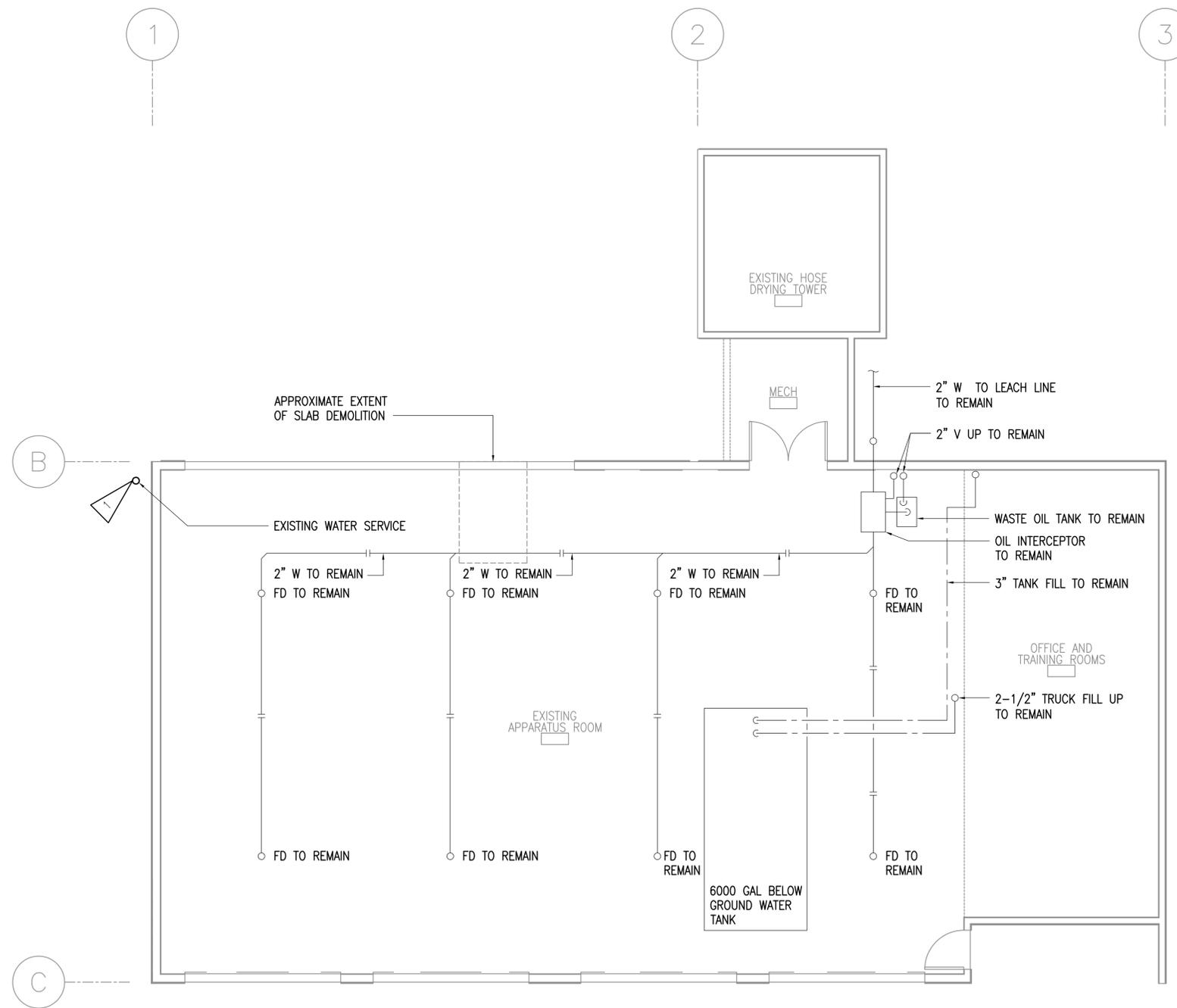
SHEET NUMBER
M3 OF **9**

GENERAL NOTES:

- A. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS BUILT DRAWINGS OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL CONNECTIONS TO EXISTING UTILITIES PRIOR TO START OF WORK.
- B. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
- C. DASHED OR DOTTED BOLD LINES INDICATE ITEMS TO BE REMOVED. UNBOLDED LINES INDICATE EXISTING ITEMS TO REMAIN.

SHEET NOTES:

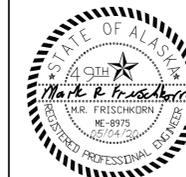
1 DEMOLISH WATER SERVICE ENTRANCE PIPING TO EXTENT NECESSARY TO COMPLETE REMODEL WORK, SEE REMODEL PLANS.



1 UNDERFLOOR DEMOLITION PLAN
 3/16" = 1'-0"



100% DOCUMENTS



ONE INCH (1")

NO	DATE	BY	REVISION

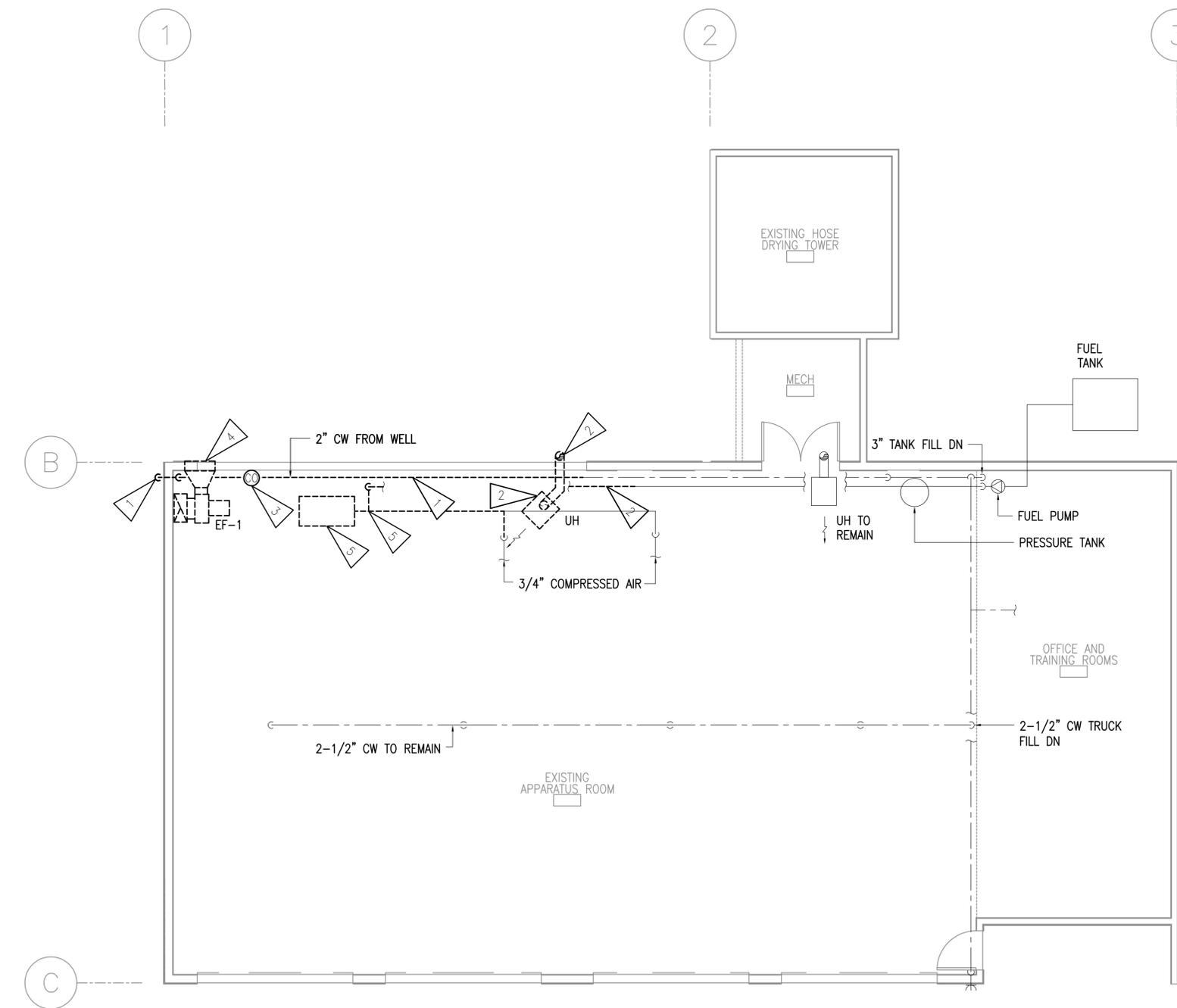
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LAKE ROAD FIRE HALL ADDITION
 ABOVE GROUND DEMOLITION PLAN
 CITY OF DILLINGHAM

SHEET SIZE:	34x22
DESIGNED BY:	CAA
DRAWN BY:	CAA
CHECKED BY:	MRB
DATE:	5/4/20
FILE NO.	M0014

SHEET NUMBER
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- B. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
- C. DASHED OR DOTTED BOLD LINES INDICATE ITEMS TO BE REMOVED. UNBOLDED LINES INDICATE EXISTING ITEMS TO REMAIN.

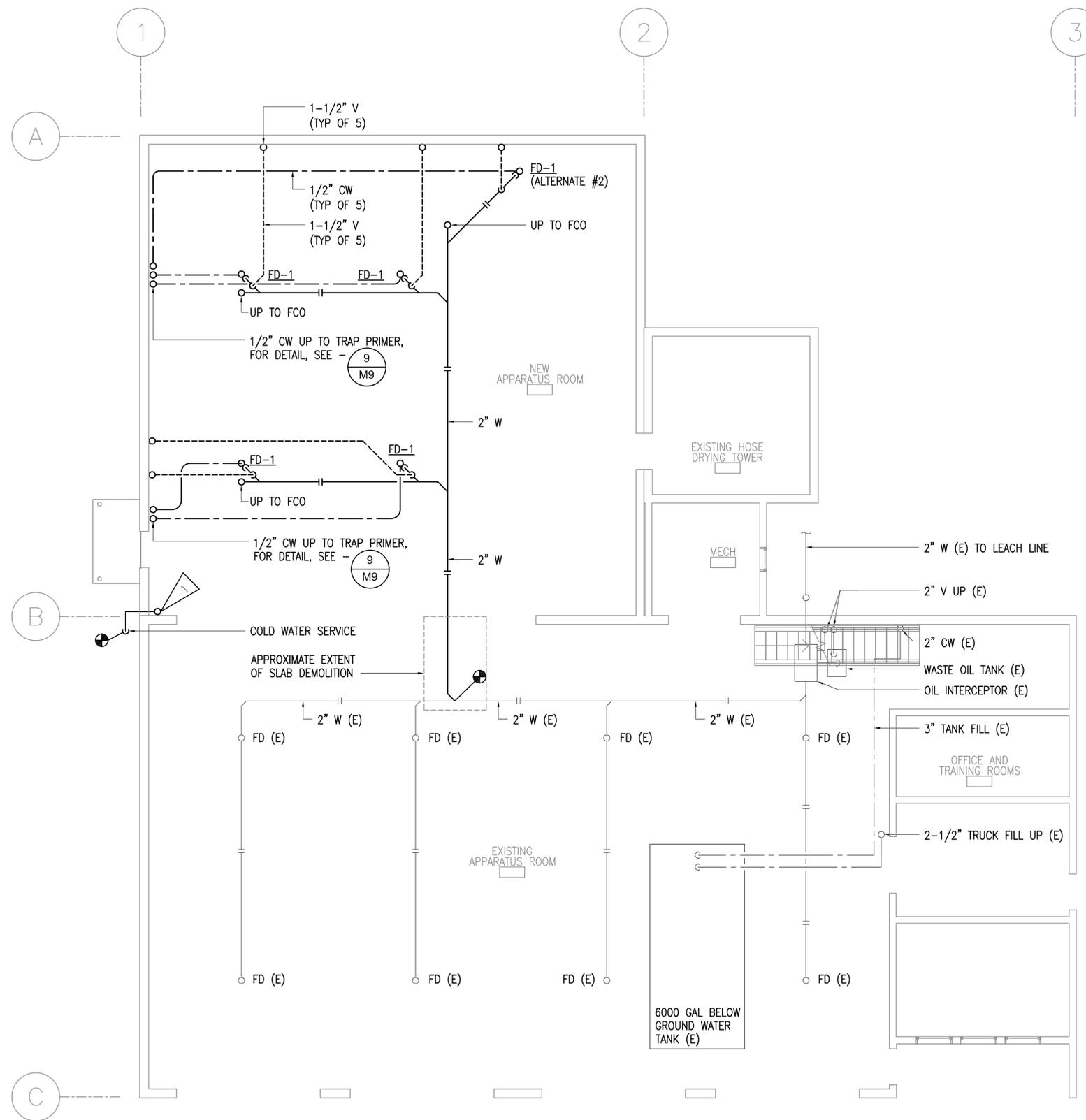
SHEET NOTES:

- 1 DEMOLISH WATER SERVICE ENTRANCE PIPING TO EXTENT INDICATED.
- 2 EXISTING UNIT HEATER TO BE RE-LOCATED. DEMOLISH FUEL OIL PIPING TO EXTENT INDICATED AND EXHAUST FLUE IN ITS ENTIRETY. FOR NEW LOCATION OF EXISTING UNIT HEATER, SEE - (1/M8)
- 3 EXISTING CARBON MONOXIDE DETECTOR TO BE RE-LOCATED. FOR NEW LOCATION, SEE - (1/M8)
- 4 DEMOLISH EXHAUST FAN LOUVER AND ASSOCIATED DUCTWORK.
- 5 EXISTING AIR COMPRESSOR TO BE RE-LOCATED. DEMOLISH EXISTING COMPRESSED AIR PIPING TO EXTENT NECESSARY FOR NEW COMPRESSOR LOCATION. FOR NEW LOCATION, SEE - (1/M6)

1 ABOVE GROUND DEMOLITION PLAN
 3/16" = 1'-0"



100% DOCUMENTS



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SHEET NOTES:

1 PROVIDE NEW WATER SERVICE ENTRANCE PIPING TO BUILDING INSIDE NEW APPARATUS ROOM AT LOCATION INDICATED. SLEEVE AND SEAL WALL PENETRATION. FOR SCHEMATIC, SEE - 8 M9

1 UNDERFLOOR REMODEL PLAN
 3/16" = 1'-0"



ONE INCH (1")			
NO	DATE	BY	REVISION

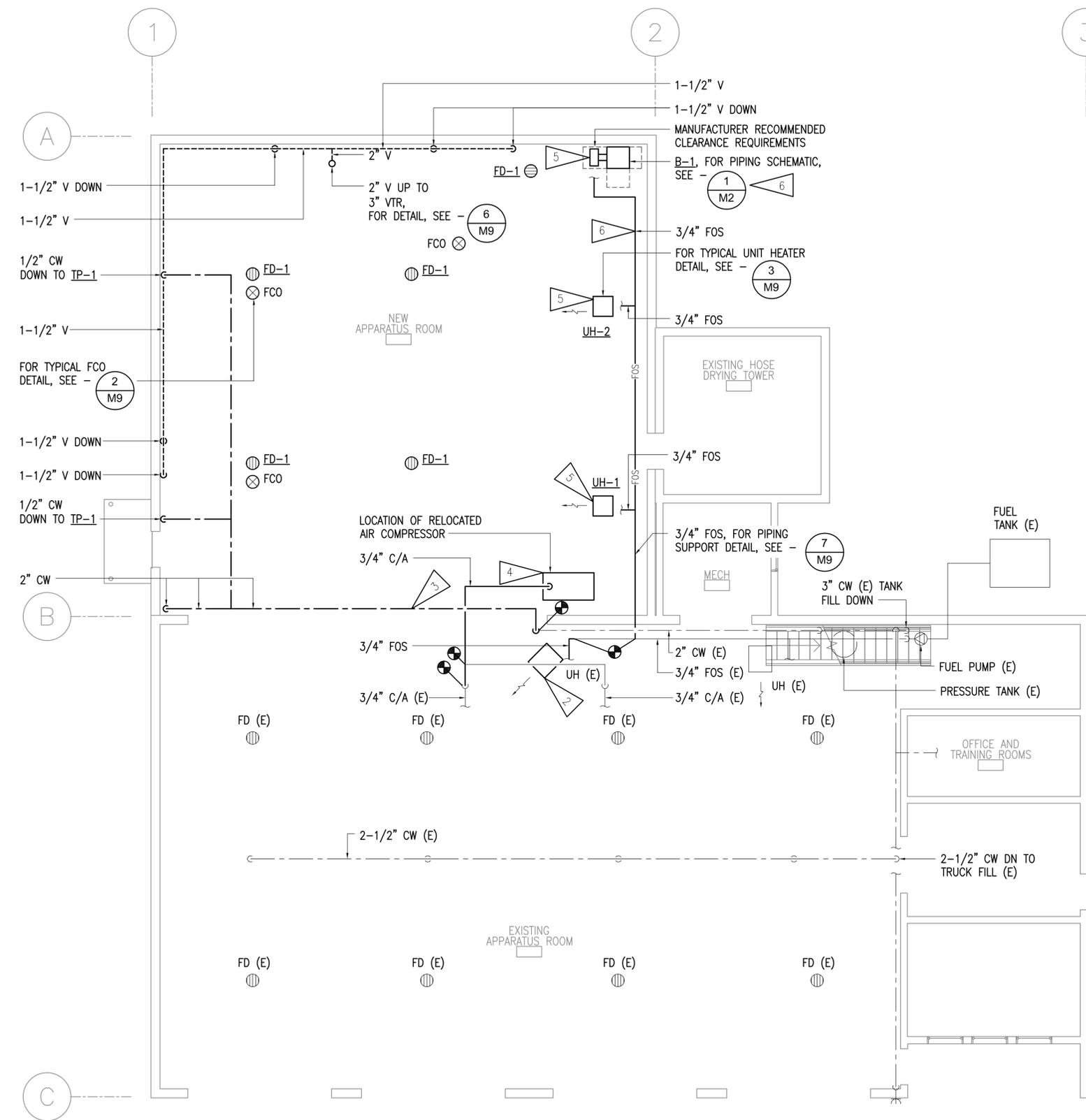
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CITY OF DILLINGHAM

LAKE ROAD FIRE HALL ADDITION
 UNDERFLOOR REMODEL PLAN

SHEET SIZE:	34x22
DESIGNED BY:	CAA
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SHEET NOTES:

- 1 PROVIDE NEW FUEL OIL PIPING TO BOILER. CONNECT TO EXISTING FUEL CIRCULATION SYSTEM.
- 2 REINSTALL SALVAGED UNIT HEATER AS SHOWN. PROVIDE NEW FUEL OIL PIPING AND CONNECT TO EXISTING FUEL SYSTEM.
- 3 ROUTE NEW WATER SERVICE PIPING AHAP AND CONNECT TO EXISTING PIPING IN EXISTING APPARATUS ROOM.
- 4 NEW LOCATION OF EXISTING AIR COMPRESSOR. PROVIDE NEW C/A PIPING AND RECONNECT AS SHOWN.
- 5 ATTACH TO TIGER LOOP. FOR TYPICAL TIGER LOOP DETAIL, SEE - (5) M9
- 6 WORK DONE UNDER ALTERNATE #2.

1 PIPING REMODEL PLAN
3/16" = 1'-0"

ONE INCH (1")		REVISION
NO	DATE	BY

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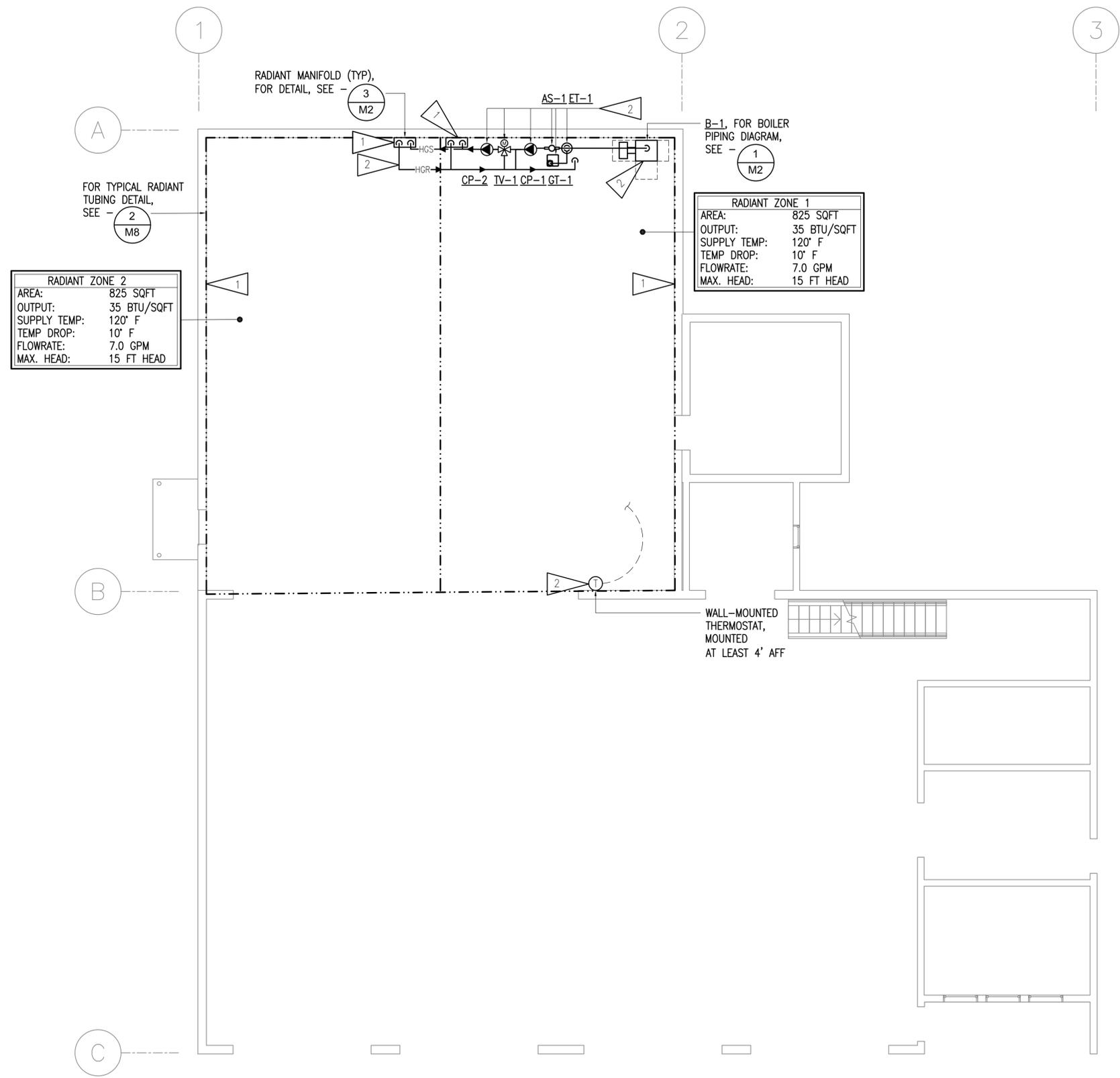
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LAKE ROAD FIRE HALL ADDITION
PIPING REMODEL PLAN

SHEET SIZE:	34x22
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SHEET NUMBER
M6 OF **9**

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SHEET NOTES:

1 WORK DONE UNDER ALTERNATE #1.

2 WORK DONE UNDER ALTERNATE #2.

1 RADIANT HEAT PLAN
 3/16" = 1'-0"

ONE INCH (1")

NO	DATE	BY	REVISION

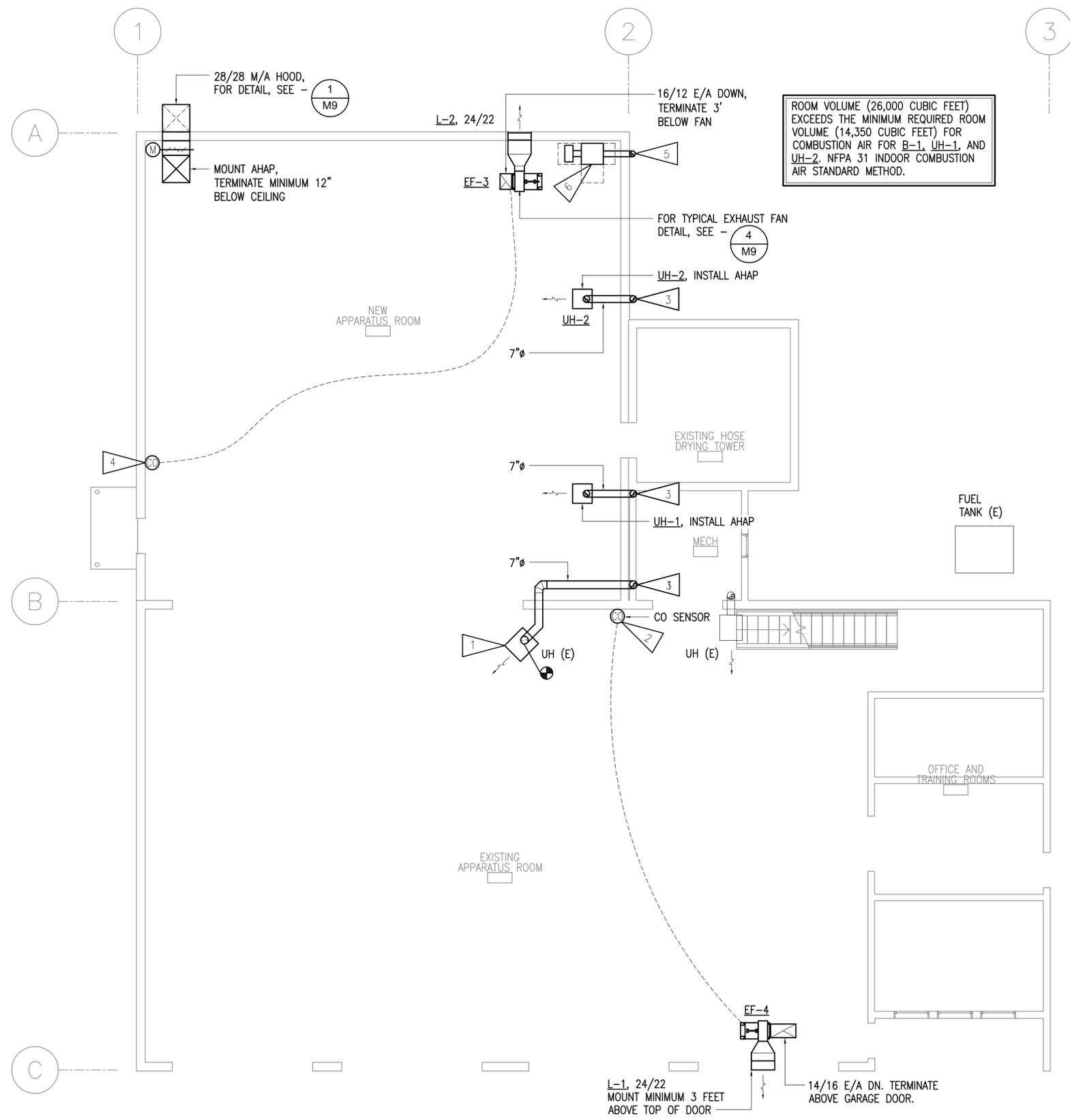
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LAKE ROAD FIRE HALL ADDITION
 RADIANT HEAT PLAN

SHEET SIZE:	34x22
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ROOM VOLUME (26,000 CUBIC FEET) EXCEEDS THE MINIMUM REQUIRED ROOM VOLUME (14,350 CUBIC FEET) FOR COMBUSTION AIR FOR B-1, UH-1, AND UH-2. NFPA 31 INDOOR COMBUSTION AIR STANDARD METHOD.

GENERAL NOTES:

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SHEET NOTES:

- 1 REINSTALL SALVAGED UNIT HEATER AS SHOWN. PROVIDE NEW FLUE.
- 2 REINSTALL SALVAGED CARBON MONOXIDE DETECTOR AS SHOWN. CONNECT TO EF-4.
- 3 ROUTE FLUE AHAP, EXTEND 24" ABOVE TOP OF ROOF EDGE. FOR FLUE DETAIL, SEE - (10/M9)
- 4 PROVIDE NEW CARBON MONOXIDE DETECTOR.
- 5 ALTERNATE #2: DIRECT VENT FLUE PER MANUFACTURER'S INSTRUCTIONS.
- 6 WORK DONE UNDER ALTERNATE #2.

1 VENTILATION REMODEL PLAN
3/16" = 1'-0"

NO	DATE	BY	REVISION

ONE INCH (1")

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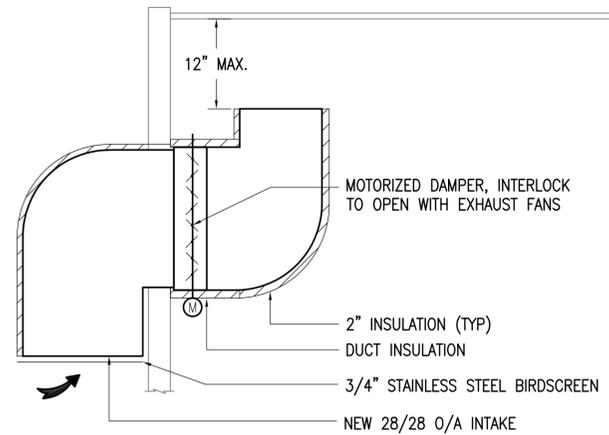
CITY OF DILLINGHAM

LAKE ROAD FIRE HALL ADDITION
VENTILATION REMODEL PLAN

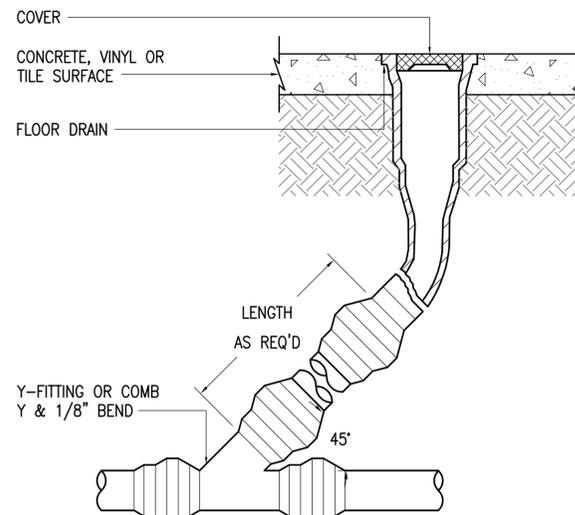
SHEET SIZE:	34x22
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FILE NO.	M0014
SHEET NUMBER	M8 OF 9

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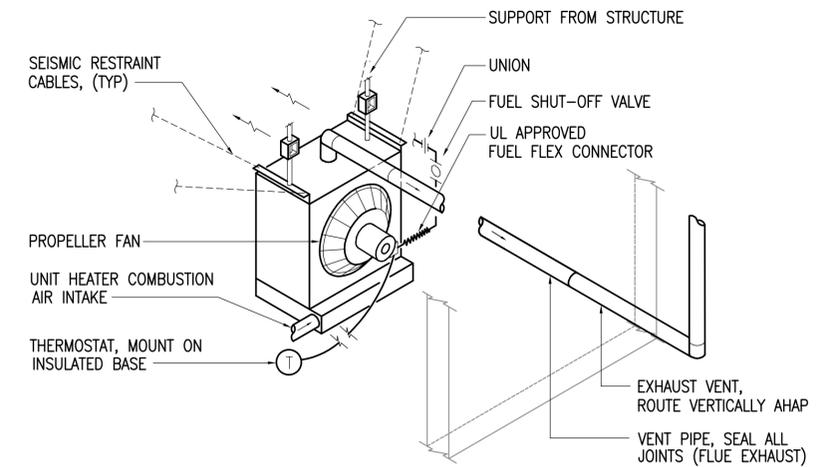




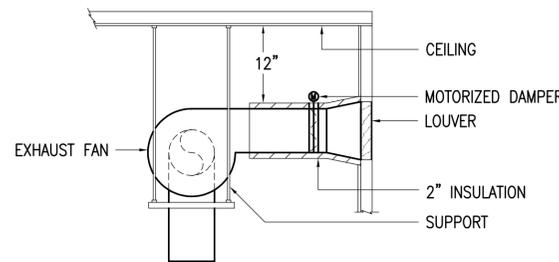
1 M/A HOOD DETAIL
NO SCALE



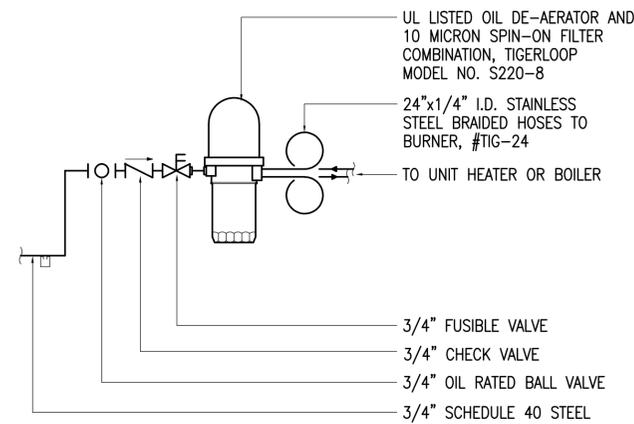
2 FLOOR CLEAN OUT DETAIL
NO SCALE



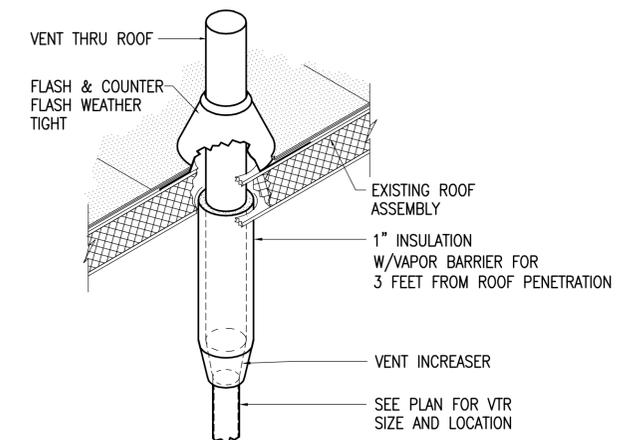
3 UNIT HEATER DETAIL
NO SCALE



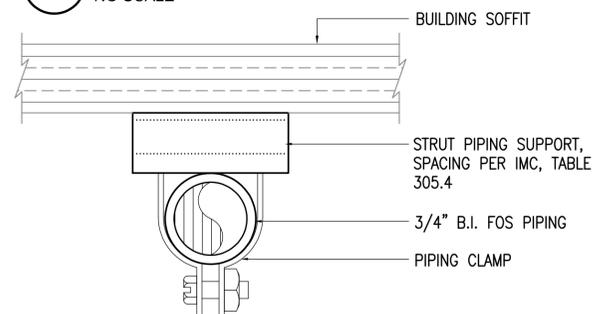
4 EXHAUST FAN DETAIL
NO SCALE



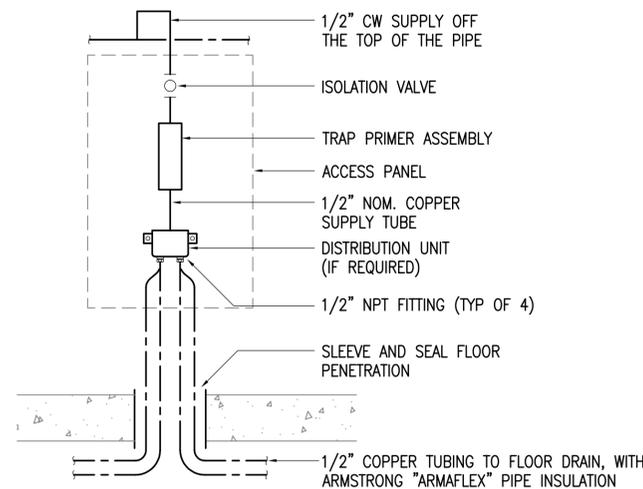
5 TIGER LOOP DETAIL
NO SCALE



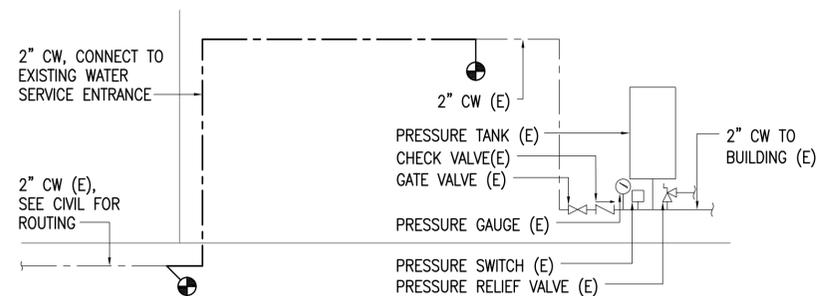
6 VENT THRU ROOF
NO SCALE



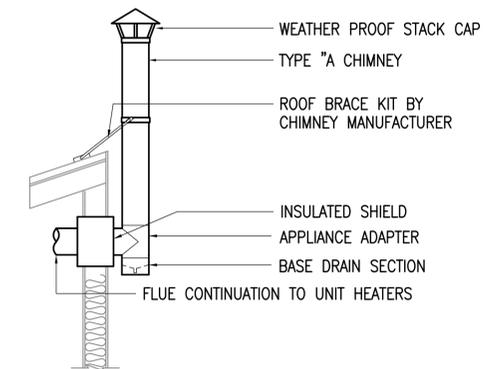
7 PIPING SUPPORT
NO SCALE



9 TRAP PRIMER DETAIL
NO SCALE



8 WATER SERVICE ENTRANCE SCHEMATIC
NO SCALE



10 UNIT HEATER STACK TERMINATION DETAIL
NO SCALE



ONE INCH (1")		REVISION
NO	DATE	BY

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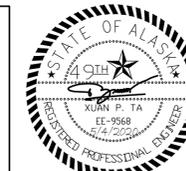
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CITY OF DILLINGHAM

LAKE ROAD FIRE HALL ADDITION
VENTILATION REMODEL PLAN

SHEET SIZE:	34x22
DESIGNED BY:	
DRAWN BY:	
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FILE NO.	M0014
SHEET NUMBER	M9 OF 9

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LEGEND			
	ROUND LUMINAIRE - PENDANT OR SURFACE MTD CLG	\$ _F	FRACTIONAL HORSEPOWER MOTOR STARTER
	LUMINAIRE - SURFACE MTD ON WALL		DISCONNECT SWITCH
	LUMINAIRE- RECESSED DOWNLIGHT		COMBINATION DISCONNECT/MAGNETIC MOTOR STARTER
	LINEAR LIGHT FIXTURE - SUSPENDED MTD		DUPLEX RECEPTACLE TO BE REMOVED (DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED TYPICAL)
	EXISTING EMERGENCY EXIT LIGHT - SURFACE MTD WALL		NOTE TAG (No. INDICATES NOTE)
	COMBINATION EXIT/EMERGENCY EXIT LIGHT - SURFACE MTD WALL	AFF	ABOVE FINISHED FLOOR
	EMERGENCY LUMINAIRE	AFG	ABOVE FINISHED GRADE
	FIXTURE TAG (LETTER INDICATES TYPE)	C	CONDUIT
	SINGLE POLE SWITCH	E, (E)	DENOTE EXISTING ITEM
	THREE WAY SWITCH	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
	CONDUIT, CONCEALED	LED	LIGHT EMITTING DIODE
	NUMBER AND SIZE OF WIRES (NO MARKS = 3 #12)	MCB	MAIN CIRCUIT BREAKER
	HOMERUN TO PANEL (PANEL AND CIRCUIT No.)	MLO	MAIN LUGS ONLY
	EXISTING PANEL	NEC	NATIONAL ELECTRICAL CODE
	DUPLEX RECEPTACLE	NTS	NOT TO SCALE
	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER	R, (R)	DENOTE EXISTING ITEM THAT HAS BEEN RELOCATED
	JUNCTION BOX	TYP	TYPICAL
	MOTOR (SIZED AS NOTED)	UON	UNLESS OTHERWISE NOTED

LUMINAIRE SCHEDULE								
TYPE	LOCATION	MANUFACTURER AND CATALOG NUMBER (OR APPROVED EQUAL)	LUMINAIRE DESCRIPTION	MOUNTING		LAMPS	BALLAST/DRIVER	TOTAL INPUT WATTS
				TYPE	HEIGHT			
A	NEW APPARATUS BAY	COLUMBIA #LXEM4-40HL-RA-EU	52.5"Lx15"Wx6"D SUSPENDED LED LUMINAIRE WITH FIBERGLASS HOUSING, GASKET, ACRYLIC LENS, HIGH REFLECTANCE BAKED WHITE ENAMEL FINISH, IP65/IP67 RATED AND WET LISTED.	SUSPENDED	+11'-0" AFF	4000K 5,449LM	120-277V LED DRIVER	47
B	BUILDING EXTERIOR	LITHONIA #TWP LED-ALO-40K T3M-MVOLT-TP-DDBXD	15.5"Hx16.1"Wx7.75"D LED WALL LUMINAIRE WITH DIE-CAST ALUMINUM HOUSING, GASKET, IMPACT-RESISTANT POLYCARBONATE LENS, DARK BRONZE FINISH, TYPE 3 DISTRIBUTION, WET LISTED, -40°F RATED.	WALL	+12'-0" AFG	4000K LED 2,267 LM	120-277V LED DRIVER	22
C	EXTERIOR CANOPY	BARRON #SCP-S-20-LG-VS-4K-WH	12"L SQUARE SURFACE-MOUNTED LED LUMINAIRE WITH LOW-PROFILE DIE-FORMED ALUMINUM HOUSING, LOW GLARE OPTICS, WHITE FINISH, WET LISTED, AND -40°F RATED.	SURFACE	CANOPY	4000K 2,352LM	120-277V	20
EM	EMERGENCY EGRESS	DUALITE #EV4-D-I-021	DUAL ADJUSTABLE LED HEADS EMERGENCY LIGHT WITH HIGH IMPACT WHITE THERMOPLASTIC HOUSING, MAINTENANCE-FREE NICKEL METAL HYDRIDE EMERGENCY BACK-UP BATTERY.	SURFACE	+7'-6" AFF ON WALL	LED	120/277V LED DRIVER	2
ER	EXTERIOR EMERGENCY EGRESS	DUALITE #EVO-D-W	DUAL REMOTE-MOUNT ADJUSTABLE LED HEADS EMERGENCY LIGHT WITH DIE-CAST HOUSING, GASKETED, WATERPROOF AND WHITE FINISH. EMERGENCY BACK-UP BATTERY IN TYPE 'EX'.	SURFACE	+7'-6" AFF ON WALL	LED	-	2
EX	EMERGENCY EGRESS	DUALITE #EVC-U-R-W-D4	COMBINATION EXIT/EMERGENCY LIGHT WITH ADJUSTABLE LED HEADS, INJECTION MOLDED WHITE THERMOPLASTIC HOUSING, RED LETTERING, LITHIUM IRON PHOSPHATE EMERGENCY BACK-UP BATTERY, REMOTE CAPACITY.	SURFACE	ABOVE DOOR	LED	120/277V LED DRIVER	2

SHEET NOTES:

- PROVIDE ALL MOUNTING ACCESSORIES RECOMMENDED BY MANUFACTURER AND REQUIRED FOR A COMPLETE SYSTEM.
- PROVIDE NEW BREAKER(S), SIZED AS SHOWN, IN SPACE AVAILABLE IN EXISTING PANEL. ALL NEW CIRCUIT BREAKERS SHALL BE COMPATIBLE WITH AND LISTED FOR USE IN THE EXISTING PANELBOARD, AND SHALL HAVE A MINIMUM SHORT CIRCUIT AIC RATING TO MATCH THE LOWEST RATED EXISTING DEVICE IN THE PANEL.
- ADJUST FIXTURE TO STEP 3 LUMEN OUTPUT.

ELECTRICAL LOAD CALCULATION			
LOAD CALCULATION FOR EXISTING 200A, 120/240V, 1-PHASE, 3-WIRE SERVICE			
PROJECT:	DILLINGHAM LAKE ROAD FIRE HALL ADDITION DILLINGHAM, ALASKA		
EXISTING MAIN PANEL 'A' IS 225A, MLO, 120/240V, 1-PHASE, 3-WIRE, 2°C, 3#/0 AWG FEEDER 2-SECTION PANEL			
EXISTING DEMAND LOAD (NEC 220.87)			
EXISTING HISTORICAL PEAK DEMAND LOAD (JUL. 2019)	10.3 kW		
DEMAND FACTOR PER NEC (125%)	12.8 kW		
POWER FACTOR OF 0.85	15,074 VA	63 A	
REMOVED LOADS			
LIGHTING	(126) VA		
RECEPTACLES, 180VA, EACH	(540) VA		
EF-1, 3/4HP, 120V	(1,656) VA		
TOTAL EXISTING LOAD REMOVED	(2,322) VA	(10) A	
A. ADDED LOAD WITHOUT ALTERNATE #2			
ADDED LOADS			
LIGHTING @ 125%	1,518 VA		
RECEPTACLES, 180VA, 5 EACH	900 VA		
EF-3, 1/3HP, 120V	696 VA		
EF-4, 1/3HP, 120V	864 VA		
UH-1.2, 1/4HP, 120V, EACH	1,392 VA		
SUBTOTAL LOAD ADDED	5,370 VA		
B. ALTERNATE #2			
ADDED LOADS			
CP-1, 1/6HP, 120V	528 VA		
CP-2, 625W, 240V	625 VA		
GT-1, 50W, 120V	50 VA		
B-1, 15A, 120V	1,800 VA		
SUBTOTAL LOAD ADDED	3,003 VA		
TOTAL ADDED LOAD WITHOUT ALTERNATE #2 (A)	5,370 VA	22 A	
NET TOTAL LOAD WITHOUT ALTERNATE #2 (A):	18,121 VA	76 A	
TOTAL ADDED LOAD WITH ALTERNATE #2 (A+B)	8,373 VA	35 A	
NET TOTAL LOAD WITH ALTERNATE #2 (A+B):	21,124 VA	88 A	
THE EXISTING SERVICE, FEEDER AND PANEL ARE ADEQUATE TO PROVIDE POWER FOR EXISTING AND NEW ADDED LOADS.			

EXISTING PANEL 'A2'														
MFR/MODEL: CUTLER-HAMMER TYPE PB VOLTS: 120/240V, 1PH, 3W ENCLOSURE: NEMA 1 225 A														
TYPE: PANELBOARD				VOLT-AMPS				MTG: SURFACE						
NOTE	CIRC	POLE	AMPS	SERVICE	TYPE	A	B	TYPE	SERVICE	AMPS	POLE	CIRC	NOTE	
a	1	1	20	(E) (UNKNOWN)					(E) (UNKNOWN)	40	2	2	a	
a	3	1	20	(E) (UNKNOWN)					AA	40	2	4	a	
a	5	1	20	(E) (UNKNOWN)					(E) (UNKNOWN)	20	1	6	a	
a	7	1	20	(E) (UNKNOWN)					(E) (UNKNOWN)	20	1	8	a	
a	9	1	20	(E) (UNKNOWN)					(E) (UNKNOWN)	30	2	10	a	
a	11	2	20	(E) (UNKNOWN)					AA	30	2	12	a	
a	13	2	20	AA		696		MOTR	UH-1	15	1	14	b	
a	15	2	30	(E) (UNKNOWN)			696	MOTR	UH-2	15	1	16	b	
a	17	2	30	AA		696		MOTR	EF-3	15	1	18	b	
b	19	1	20	LTS-NEW APPARATUS RM.	LTG		1,214		SPACE	-	1	20		
b	21	1	20	RECP-NEW APPARATUS RM. W. EXT.	RECP	720	864		MOTR	EF-4	15	1	22	b
b	23	1	20	RECP-NEW APPARATUS RM. W. EXT.	RECP		360	313	MOTR	CP-2	15	2	24	c
c	25	1	15	CP-1	MOTR	528	313		MOTR	AA	15	2	26	c
c	27	1	20	B-1	MISC		1,800	50	MISC	GT-1	15	1	28	c
	29	1	-	SPACE					SPACE	-	1	30		
	31	1	-	SPACE					SPACE	-	1	32		
	33	1	-	SPACE					SPACE	-	1	34		
	35	1	-	SPACE					SPACE	-	1	36		
	37	1	-	SPACE					SPACE	-	1	38		
	39	1	-	SPACE					SPACE	-	1	40		
	41	1	-	SPACE					SPACE	-	1	42		

PANEL NOTES:
a EXISTING LOAD ON EXISTING BREAKER. VA LOAD IS UNKNOWN.
b NEW LOAD ON NEW BREAKER.
c BASE BID: SPACE
ALTERNATE #2: PROVIDE CIRCUIT BREAKER AS SHOWN FOR NEW LOAD.

PANEL OPTIONS:

ONE INCH (1")

REVISION	BY	DATE	NO

RISA Engineering, Inc.
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS
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Lantech Inc.
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CITY OF DILLINGHAM

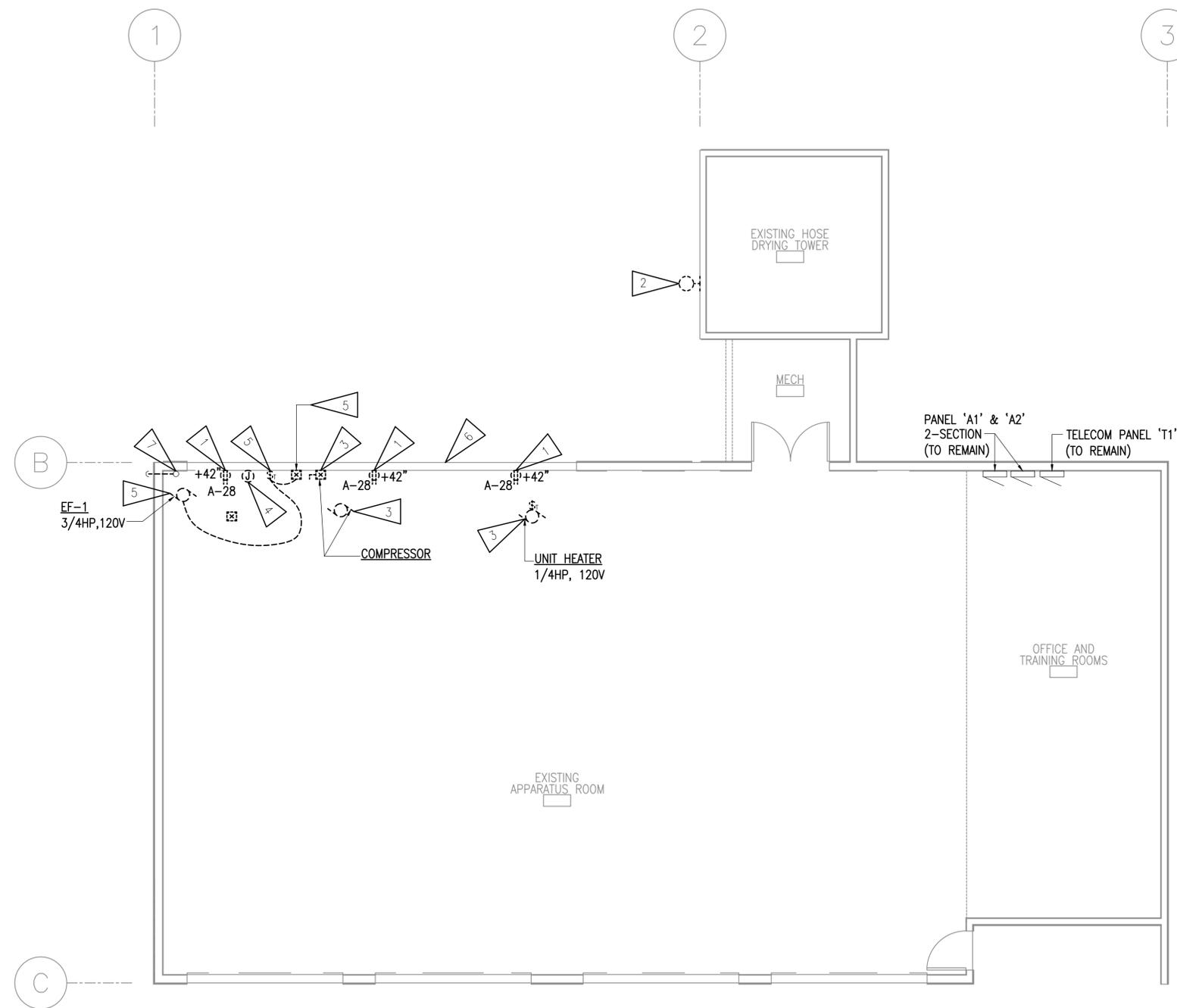
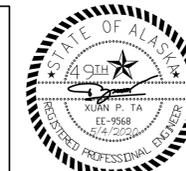
LAKE ROAD FIRE HALL ADDITION

ELECTRICAL LEGEND AND SCHEDULES

SHEET SIZE: 34x22
DESIGNED BY: ECO
DRAWN BY: ECO
CHECKED BY: XPT, DAO
DATE: 5/4/20
FILE NO. M0014

100% DOCUMENTS

SHEET NUMBER
E1 OF 3



GENERAL NOTES:

- A. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM 1982 AS-BUILT DRAWINGS OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
- B. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
- C. DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- D. NOT ALL EXISTING ELECTRICAL DEVICES AND INSTALLATIONS ARE SHOWN FOR CLARITY.
- E. CONTRACTOR SHALL ENSURE CIRCUIT CONTINUITY IS MAINTAINED FOR DEVICES THAT ARE TO REMAIN.
- F. SEE 1/E3 FOR REMODEL WORK.

SHEET NOTES:

- 1. DEMOLISH RECEPTACLE AND CONDUIT AND CONDUCTOR BACK TO EXISTING DEVICE ON SAME CIRCUIT.
- 2. DEMOLISH LUMINAIRE. PULL LIGHTING CIRCUIT AND CONNECTION TO EXTERIOR LIGHTING CONTACTOR BACK TO NEARBY EXTERIOR LUMINAIRE.
- 3. DISCONNECT ELECTRICAL CONNECTIONS TO MECHANICAL EQUIPMENT TO BE RELOCATED. SEE 1/E3 FOR NEW LOCATION.
- 4. DISCONNECT ELECTRICAL CONNECTIONS TO CARBON MONOXIDE SENSOR TO BE RELOCATED. SEE 1/E3 FOR NEW LOCATION.
- 5. DEMOLISH EXHAUST FAN DISCONNECT, DISCONNECT AND STARTER. DEMOLISH ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE PANEL AND LABEL CIRCUIT BREAKER AS SPARE.
- 6. REROUTE CONDUIT AND CONDUCTORS MOUNTED ON OR ALONG WALL SECTION TO AVOID CONFLICT WITH NEW WALL OPENING. PROVIDE EXTENSION OF CONDUIT AND CONDUCTORS AS NEEDED.
- 7. APPROXIMATE LOCATION OF EXISTING WATER SERVICE PIPING. DISCONNECT EXISTING GROUNDING ELECTRODE CONDUCTOR AND SAVE FOR RE-USE.

1 ELECTRICAL DEMOLITION PLAN
3/16" = 1'-0"

ONE INCH (1")		REVISION
NO	DATE	BY

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LAKE ROAD FIRE HALL ADDITION
ELECTRICAL DEMOLITION PLAN

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