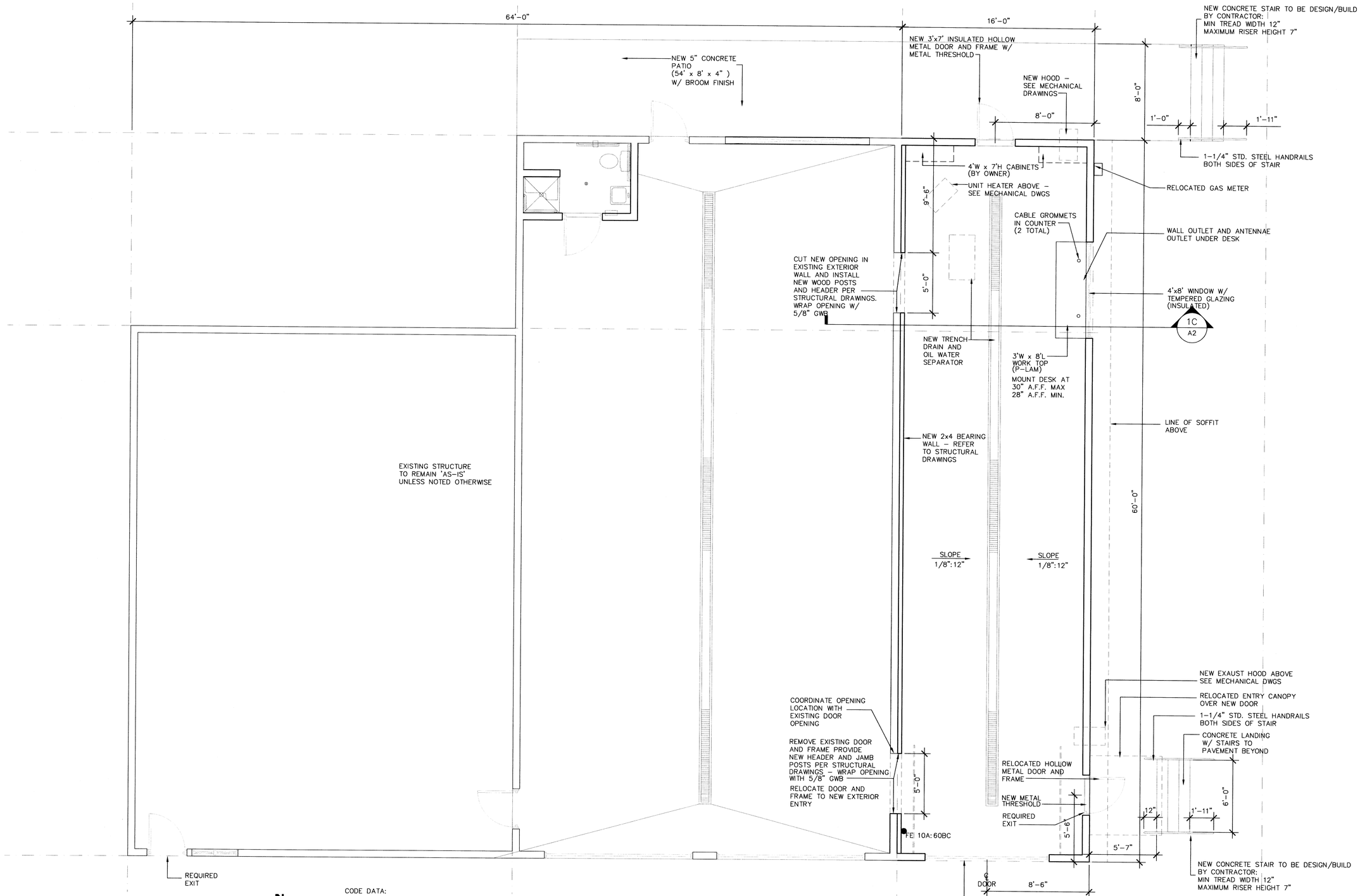

1C / A1 **FLOOR PLAN – NEW ADDITION**

1/4" = 1' - 0"

CODE DATA:
CONSTRUCTION TYPE: V-B
OCCUPANCY GROUP: B (FIRE STATION)
BASIC ALLOWABLE AREA: 9,000 S.F.
ACTUAL AREA: 4,822 S.F.
TOTAL OCCUPANT LOAD: 100 S.F.(GROSS).OCCUPANT = 49 PERSONS
TOTAL EXITS REQUIRED: 2 , 2 REQUIRED EXITS PROVIDED. (4 EXITS TOTAL)

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STATE OF ALASKA 49TH GARY S. WOLF A8257 REGISTERED PROFESSIONAL ARCHITECT

ADDITION TO FIRE STATION #62
MSB PROPOSAL # 03-106KNIK/GOOSEBAY ROAD

Drawn	Date
GW	3/3/03
Checked	**Job No.**
GW	0231.01

Sheet Contents
FLOOR PLAN

Catagory	Sheet
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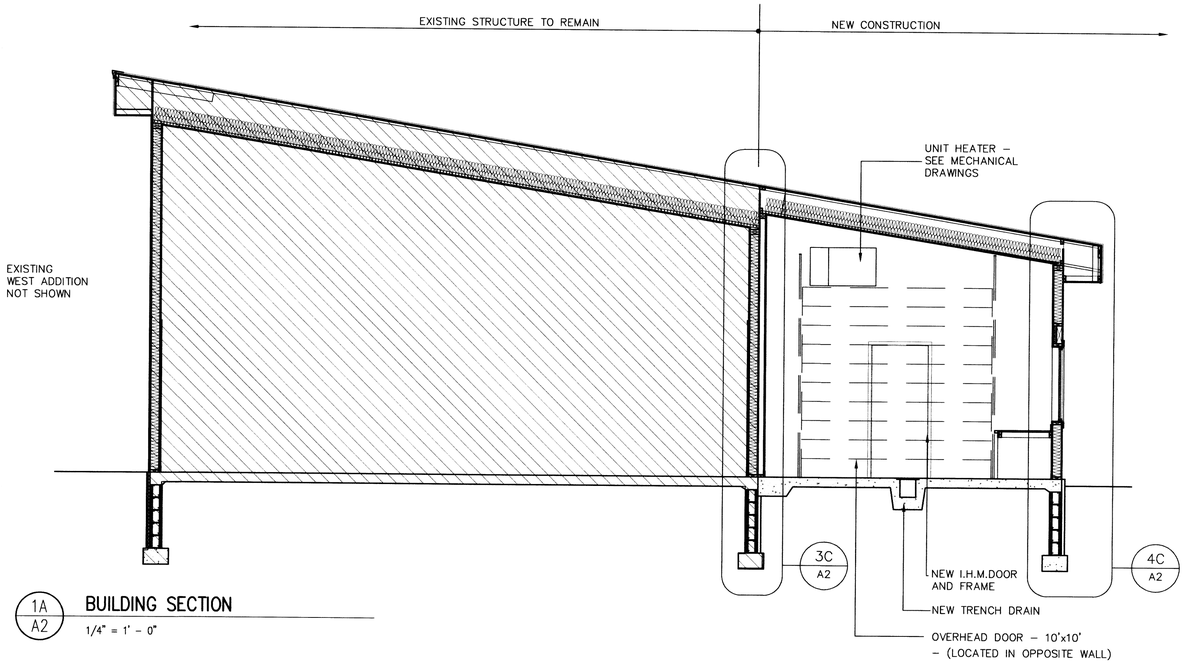
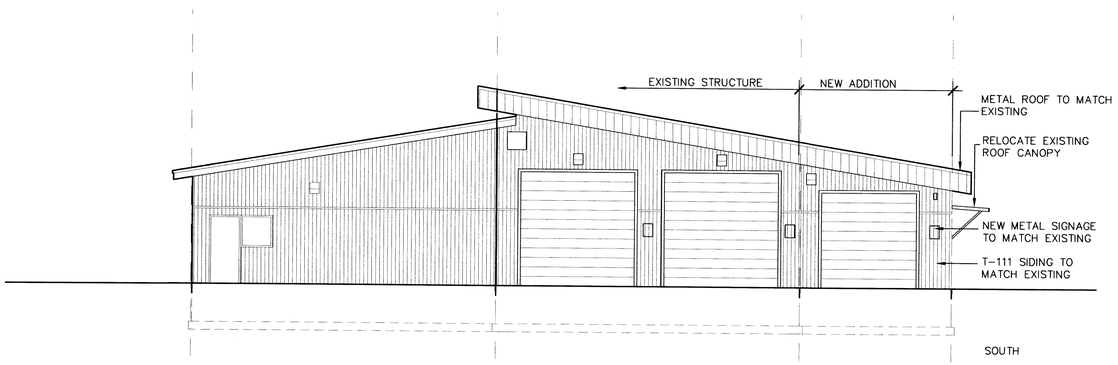
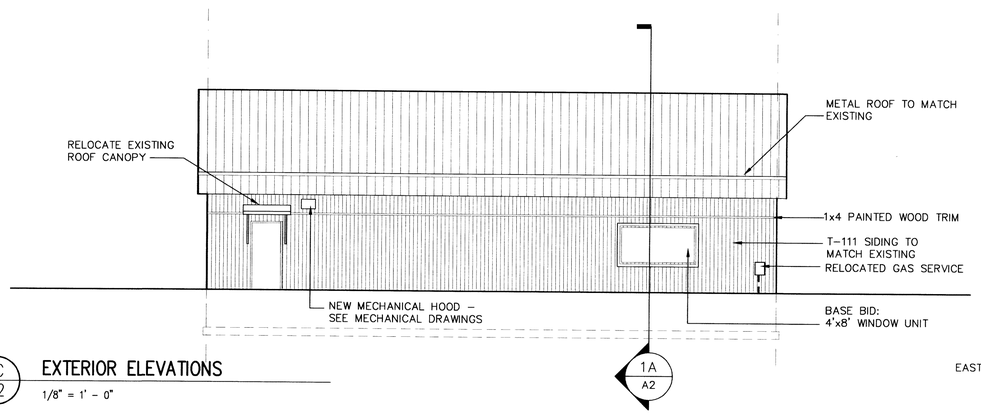
P.2
8E-01

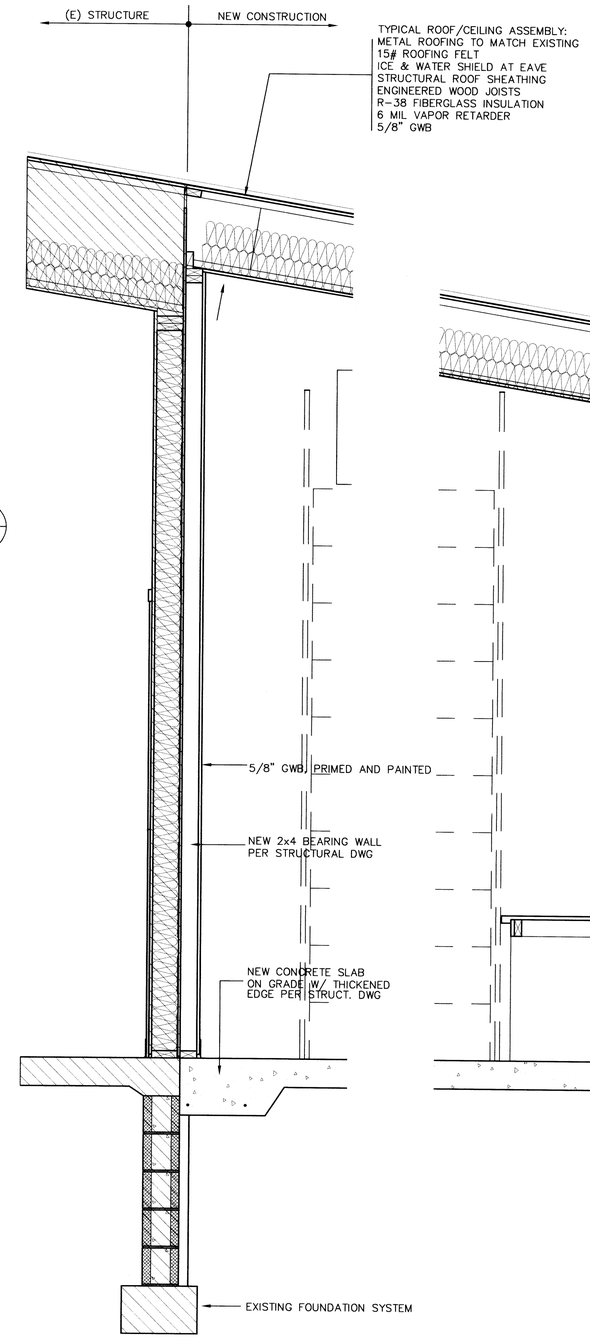


1A A2 BUILDING SECTION
1/4" = 1' – 0"

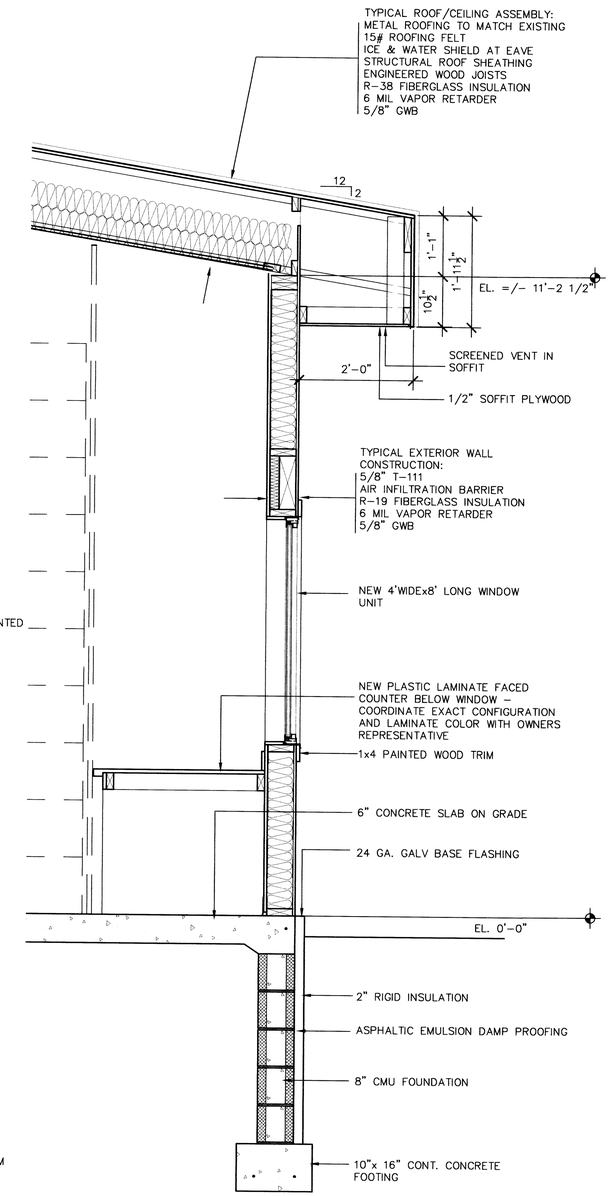




1C A2 EXTERIOR ELEVATIONS
1/8" = 1' – 0"



3C A2 WALL SECTION
3/4" = 1' – 0"



4C A2 WALL SECTION
3/4" = 1' – 0"

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STATE OF ALASKA 49TH GARY S. WOLF A8257 REGISTERED PROFESSIONAL ARCHITECT

ADDITION TO FIRE STATION #62
MSB PROPOSAL # 03-106KNIK/GOOSEBAY ROAD

Drawn	Date
GW	3/3/03
Checked	**Job No.**
GW	0231.01

Sheet Contents
BUILDING SECTION
WALL SECTION

Category	Sheet
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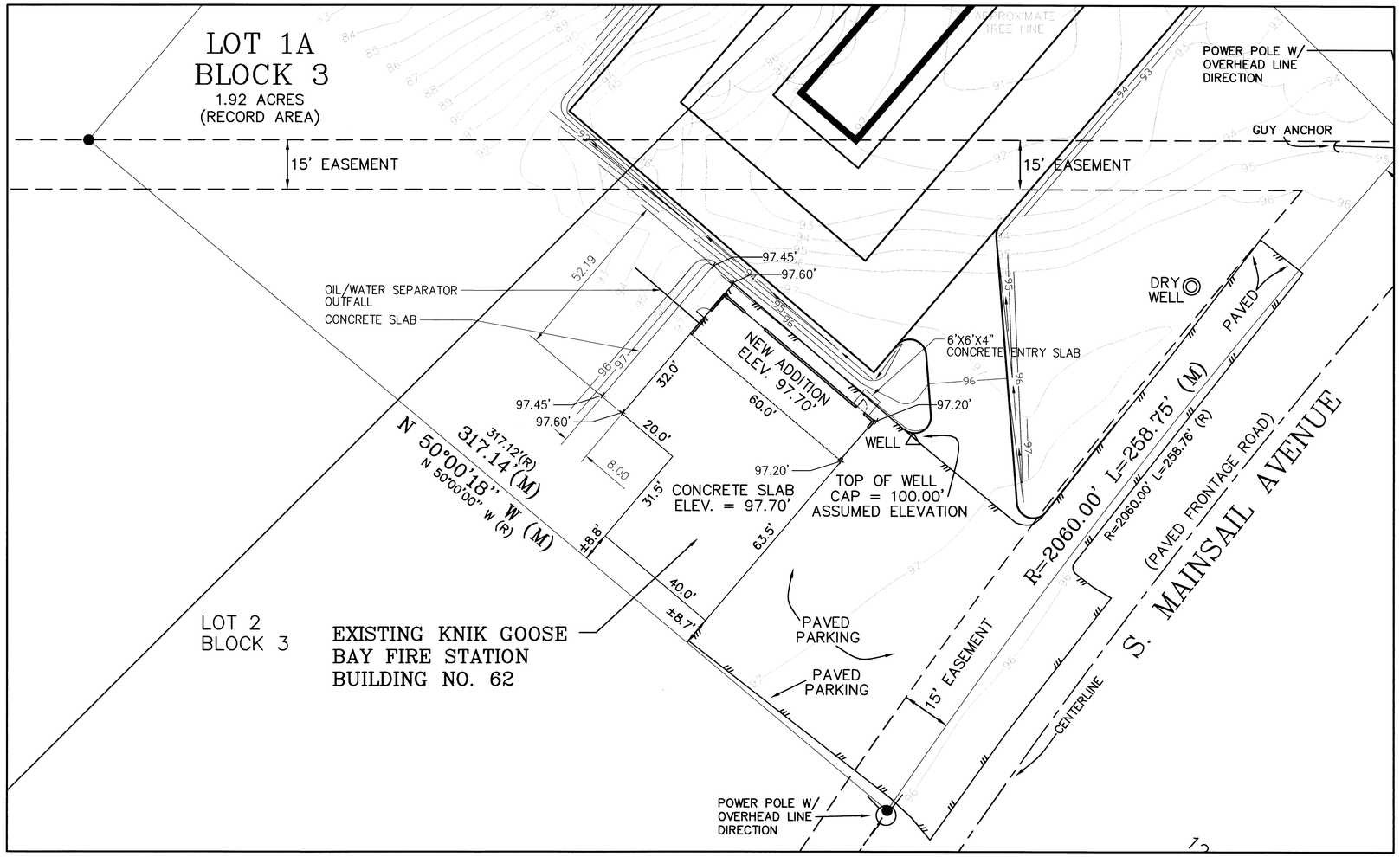

SHEET NOTES

1. SEE ARCHITECTURAL DRAWINGS FOR BUILDING ADDITION DIMENSIONING AND LOCATION.
2. CONCRETE WALKS ARE 4–INCHES THICK WITH 12GA. WELDED WIRE MESH. INSTALL EXPANSION JOINTS AT 25FT O.C. AND CONTROL JOINTS AT 6FT. O.C.
3. ADDITION FOUNDATION SHALL BE CONSTRUCTED ON UNDISTURBED, NON–FROST SUSCEPTIBLE, GRAVEL SUBGRADE. PROOF ROLL SUBGRADE PRIOR TO CONSTRUCTION OF FOUNDATION WALLS.
4. ALL IMPORTED FILL FOR SIDEWALK CONSTRUCTION SHALL BE PITRUN GRAVEL WITH LESS THAN 6% FINES PASSING THE 200 SIEVE. PROVIDE 2–INCHES OF D–1 LEVELING COURSE BELOW CONCRETE SLABS.
5. DAYLIGHT DRAIN LINE FROM OIL/WATER SEPARATOR AS SHOWN ON THE PLAN.
6. SLOPE SOIL AT PERIMETER OF BUILDING ADDITION 5% AWAY FROM THE STRUCTURE FOR A MINIMUM OF 10–FEET.

Wolf Architecture
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STATE OF ALASKA 49TH
D.T. KENLEY
CE-8176
Registered Professional Engineer

ADDITION TO FIRE STATION #62
MSB PROPOSAL # 03-106KNIK/GOOSEBAY ROAD

Drawn	Date
DTK	3/25/03
Checked	Job No.
DTK	0231.01

Sheet Contents
SITE PLAN

PRJ-22-03-00039
Knik Goose-Bay Fire Station #62 Addition to Fire Station
3/25/03
Flatfile 8E-01

Catagory	Sheet
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EXISTING PANEL A SCHEDULE

120/240V,1PH,3W — MLO

	CKT	AMP	POLE	LOAD DESCRIPTION	PHASE A VA	PHASE B VA	LOAD DESCRIPTION	POLE	AMP	CKT	
*	1	20	1	EM LIGHTS	120	800	UH-1,EF-1	1	20	2	*
*	3	20	1	REC-		720 720	REC-COUNTER	1	20	4	*
*	5	20	1	MAIN LIGHTS	800	1180	WATER PUMP		20	6	*
*	7	20	1	OUTSIDE RECEPTACLES		540 1180		2		8	*
*	9	20	1	OUTSIDE LIGHTS	700	720	REC-COUNTER	1	20	10	*
*	11	20	1	MAIN LIGHTS		800				12	*
*	13	20	1			720	REC-	1	20	14	*
*	15	20	1			9590	PANEL B		100	16	*
*	17	20	1		10380			2		18	*
*	19	20	1	FREEZER		1500 720	REC-NEW ADDTITON	1	20	20	
*	21	20	1	REFRIGERATOR	1500					22	
*	23					900	REC-NEW ADDITION	1	20	24	
	25	20	1	UH-1,EF-1-NEW ADDITION	810	900	REC-NEW ADDITION	1	20	26	
	27	20	1	DOOR OPENER-NEW ADD		1180 975	LTG-NEW ADDITION	1	20	28	
	29	30		LTR-EXTERIOR FLOOD-NEW	1405 660		CONNEX/SHED			30	
	31		2			1404 120	CO-2 CO DETECTOR	1	20	32	
	33									34	
	35									36	
	37									38	
	39									40	
	41									42	
	CONNECTED LOAD (VA)				20,695	20,349	41,044 VA				
	CONNECTED LOAD (AMPERES)				172	170	171 A				
	DEMAND LOAD (VA)				21,070	20,944	42,014 VA				
	DEMAND LOAD (AMPERES)				176	175	175 A				
	AMPERE INTERUPT RATING						10,000 AIC				

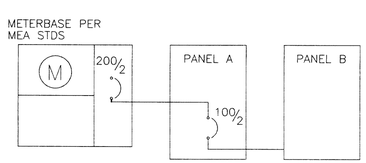
* NO WORK REQUIRED

EXISTING PANEL B SCHEDULE

120/240V,1PH,3W — MLO

	CKT	AMP	POLE	LOAD DESCRIPTION	PHASE A VA	PHASE B VA	LOAD DESCRIPTION	POLE	AMP	CKT	
*	1	20	1	LTG-BAY AND EXTERIOR	540	540	BATHROOM	1	20	2	*
*	3	20	1	LTG-BAY AND EXTERIOR		540 530	UH-1	1	20	4	*
*	5	20	1	LTG-BAY AND EXTERIOR	540					6	*
*	7	20	1	REC		720 720	REC-	1	20	8	*
*	9	20	1	REC	720	1080	REC,EF-1	1	20	10	*
*	11	20	1	GARAGE DOOR OPENER		1200 120	CO' PANEL	1	20	12	*
*	13	20	1	GARAGE DOOR OPENER	1200		SPARE	1	20	14	*
*	15	20	1	SPARE			SPARE	1	20	16	*
*	17	30		CLOTHES DRYER	2880		SPARE		30	18	*
*	19		2			2880		2		20	*
	21					2880	HOSE DRYER		30	22	*
	23					2880		2		24	*
	25									26	
	27									28	
	29									30	
	31									32	
	33									34	
	35									36	
	37									38	
	39									40	
	41									42	
	CONNECTED LOAD (VA)				10,380	9,590	19,970 VA				
	CONNECTED LOAD (AMPERES)				87	80	83 A				
	DEMAND LOAD (VA)				10,380	9,590	19,970 VA				
	DEMAND LOAD (AMPERES)				87	80	83 A				
	AMPERE INTERUPT RATING						10,000 AIC				

* NO WORK REQUIRED



1 / E0.1 EXISTING ELECTRICAL DISTRIBUTION SYSTEM - SINGLE LINE DIAGRAM

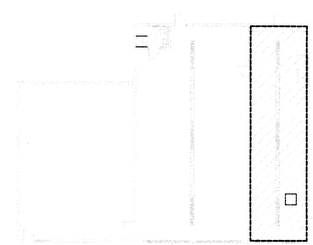
SCALE: NONE

ELECTRICAL SYMBOLS LEGEND

	FLUORESCENT FIXTURE – SURFACE MOUNTED 1'x4'		PANEL
	SURFACE MOUNTED LIGHT FIXTURE		DUPLEX RECEPTACLE
	WALL MOUNTED LIGHT FIXTURE		GROUND FAULT CURRENT INTERRUPTER RECEPTACLE
	POLE MOUNTED FLOODLIGHT		QUADRAPLEX RECEPTACLE
	EXIT LIGHT – WALL MOUNTED		ANTENNA OUTLET
	SELF–CONTAINED EMERGENCY LIGHT		JUNCTION BOX
X	FIXTURE IDENTIFICATION (LETTER INDICATES TYPE)		DISCONNECT SWITCH
S	SINGLE POLE SWITCH		FUSED DISCONNECT SWITCH
S_2	DOUBLE POLE SWITCH		COMBINATION MOTOR STARTER DISCONNECT
S_3 S_4	THREE WAY SWITCH AND FOUR WAY SWITCH	S_F	FRACTIONAL HP MOTOR SWITCH
	CONDUIT, CONCEALED		MOTOR
#10	NUMBER AND SIZE OF WIRES (NO SLASHES = 3#12)		SPEAKER
A–2	HOMERUN TO PANEL (PANEL AND CIRCUIT No.)	WP	WEATHERPROOF
X	NOTE TAG (No. INDICATES NOTE)	GF	GROUND FAULT CIRCUIT INTERRUPTER
P	PHOTOCELL		
	DASHED SYMBOL = DEVICE TO BE REMOVED		
NL	NIGHT LIGHT		

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER AND MODEL NUMBER	DESCRIPTION	LAMP TYPE	LAMP QUANTITY	MOUNTING TYPE	MOUNTING HEIGHT
A	LITHONIA #AF10–432–120–GEB–WGAFPV	SUSPENDED HEAVY DUTY 4' INDUSTRIAL FOUR LAMP FLUORESCENT FIXTURE W/ 10% UPLIGHT REFLECTOR & WIREGUARD.	F32/T–8	4	SUSPENDED	12'
C	DAY–BRITE #VIS–150–I–12–C–G	CEILING MOUNTED INCANDESCENT FIXTURE WITH GLASS GLOBE, GUARD.	150W/A21	1	SURFACE	CEILING
D	LITHONIA #TV–400M–HD6–240–TVTS–(PE1) #RTS–39–7–8B–BS28–GALV	TWIN FLOOD LIGHTS W/ ALUMINUM REFLECTOR FOR NEMA 6 BEAM SPREAD. HINGED TEMPERED GLASS LENS, HEAVY DUTY SHROUD & TENON SLIPFITTER. UL WET LOCATION LISTED. PROVIDE INTEGRAL NEMA TWISTLOCK PHOTO CONTROL WHERE NOTED. 39' ROUND TAPERED GALVANIZED STEEL POLE & DOUBLE BULLHORN FLOOD LIGHT BRACKET FOR WIND SPEEDS OF 100MPH W/ 1.3 GUST FACTOR.	400 MH	2	POLE	40'
	LITHONIA #ELM	SELF CONTAINED EMERGENCY LIGHT WITH MAINTENANCE FREE LEAD CALCIUM BATTERY	5.4W	2	SURFACE	80"
	LITHONIA #LQMSW1G–120–ELN	SELF CONTAINED EMERGENCY EXIT SIGN WITH MAINTENANCE FREE NI–CAD BATTERY	LED		WALL	80"



AREA CLASSIFICATION LEGEND

CLASS 1 DIVISION 2 UP TO 18" ABOVE FLOOR AS COMMERCIAL REPAIR GARAGE PER NEC 511

APPARATUS BAY IS CLASSIFIED AS A COMMERCIAL GARAGE FOR REPAIR AND STORAGE. SYSTEMS AND DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH ALL REQUIREMENTS OUTLINED IN THE NATIONAL ELECTRICAL CODE, ARTICLES 501 AND 511.
NOTE: PROVIDE GFCI PROTECTION FOR ALL 120 VOLT SHOP RECEPTACLES PER NEC 511–10

2 / E0.1 AREA CLASSIFICATION PLAN

SCALE: 1" = 20'

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STATE OF ALASKA — 24 Q.ELEC — THOMAS D. ZIETLOW — EE-9392 — REGISTERED PROFESSIONAL ENGINEER — 3-19-03

ADDITION TO FIRE STATION #62
MSB PROPOSAL # 03-106KNIK/GOOSEBAY ROAD

Drawn	Date
BW	03/19/03
Checked	**Job No.**
TDZ	2003.019.0

Sheet Contants
ELECTRICAL LEGEND, FIXTURE SCHEDULE

HZA
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Catagory	Sheet
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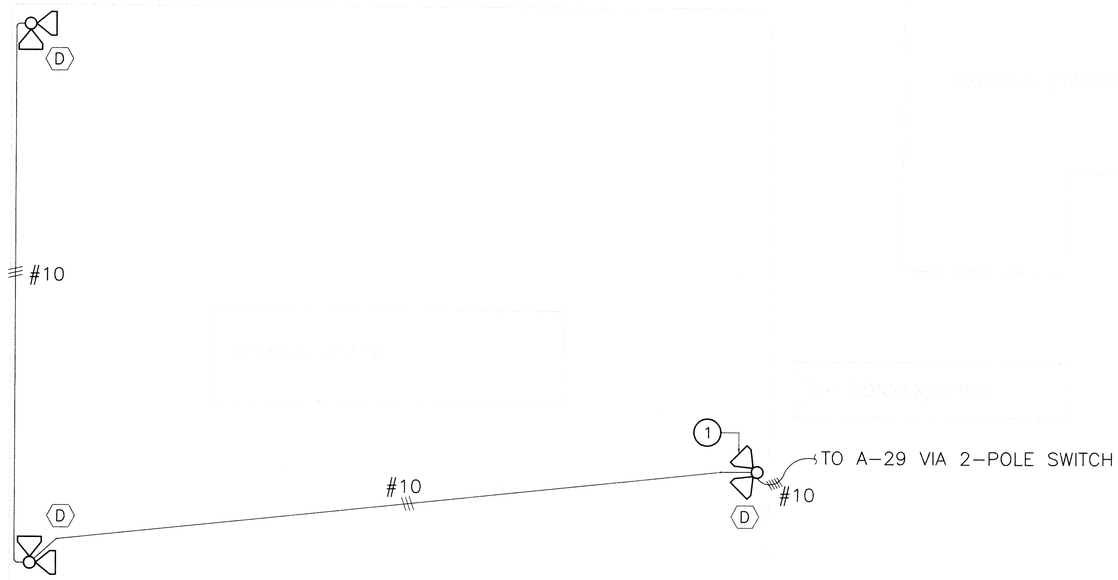
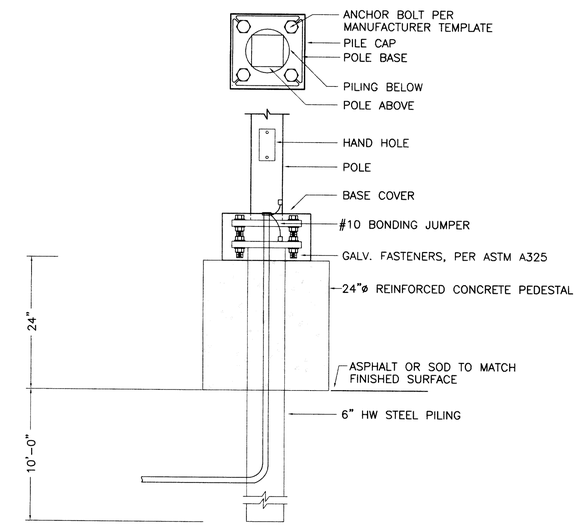
03-19-03

SHEET NOTES:

1. PROVIDE ONE TYPE 'D' FLOODLIGHT WITH INTEGRAL PHOTOCELL WHERE NOTED AND ATTACH TO UNSWITCHED 240V POWER LEGS OF THE CIRCUIT SHOWN.



1 / E0.2 SITE PLAN
SCALE: 1"=20'



2 / E0.2 POLE BASE DETAIL
SCALE: NTS

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STATE OF ALASKA 49TH THOMAS D. ZIETLOW EE-9392 REGISTERED PROFESSIONAL ENGINEER

ADDITION TO FIRE STATION #62
MSB PROPOSAL # 03-106KNIK/GOOSEBAY ROAD

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SITE PLAN

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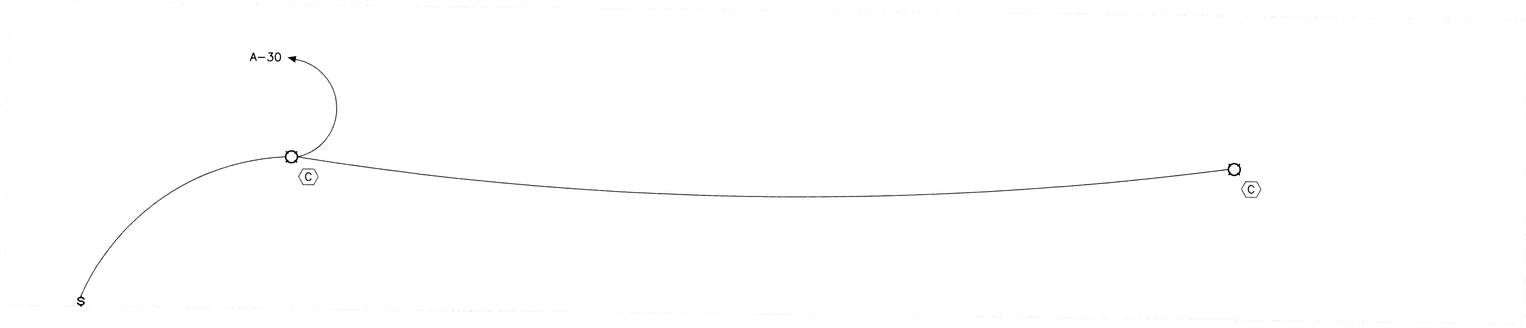
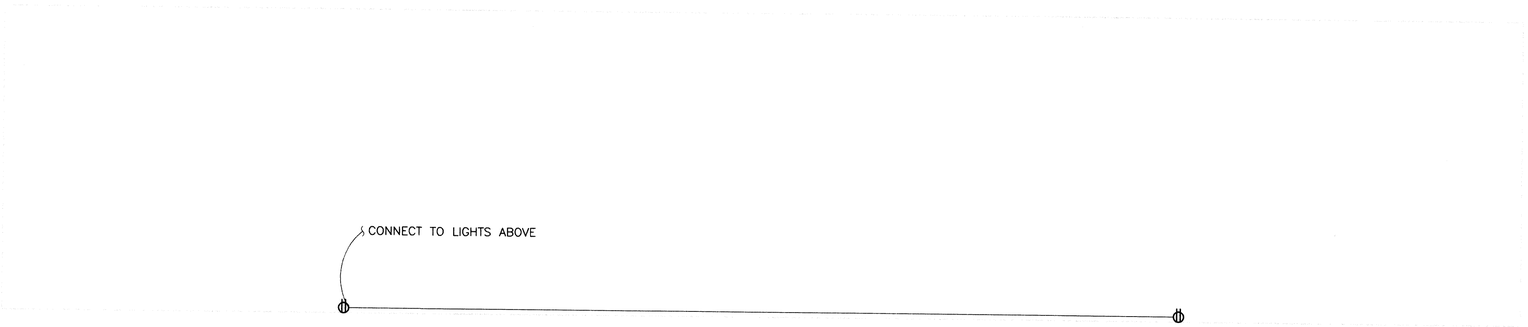
8E-01



1 E-3 CONNEX/SHED LIGHTING PLAN
SCALE: 1/2" = 1'-0"



1 E-3 CONNEX/SHED POWER PLAN
SCALE: 1/4" = 1'-0"

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STATE OF ALASKA
49TH
THOMAS D. ZIETLOW
EE-9392
REGISTERED PROFESSIONAL ENGINEER
3.19.03

ADDITION TO FIRE STATION #62
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Sheet Contents
CONNEX/SHED ELECTRICALPLAN

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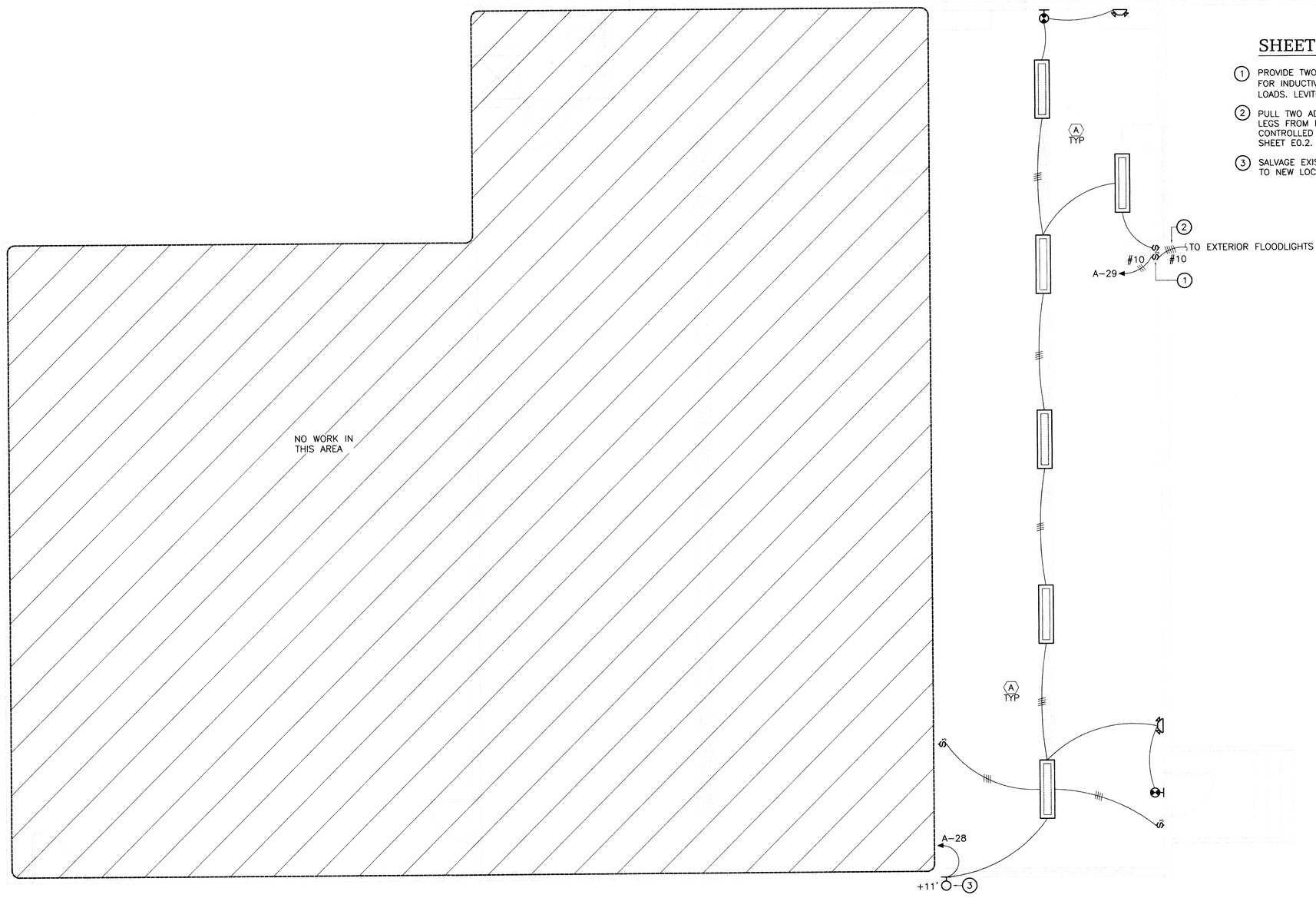

SHEET NOTES:

1. PROVIDE TWO POLE, 240V, 20A SWITCH RATED FOR INDUCTIVE/ELECTRIC DISCHARGE LAMP LOADS. LEVITON #CSB2-20 OR EQUAL.
2. PULL TWO ADDITIONAL UNSWITCHED POWER LEGS FROM BRANCH CIRCUIT FOR PHOTOCELL CONTROLLED 240V FLOODLIGHT AS SHOWN ON SHEET E0.2.
3. SALVAGE EXISTING WALL-PACK AND RELOCATE TO NEW LOCATION WHERE SHOWN ON PLANS.

1 / E-2 LIGHTING PLAN

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

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STATE OF ALASKA
49TH
THOMAS P. ZIETLOW
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3-19-03

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LIGHTING PLAN

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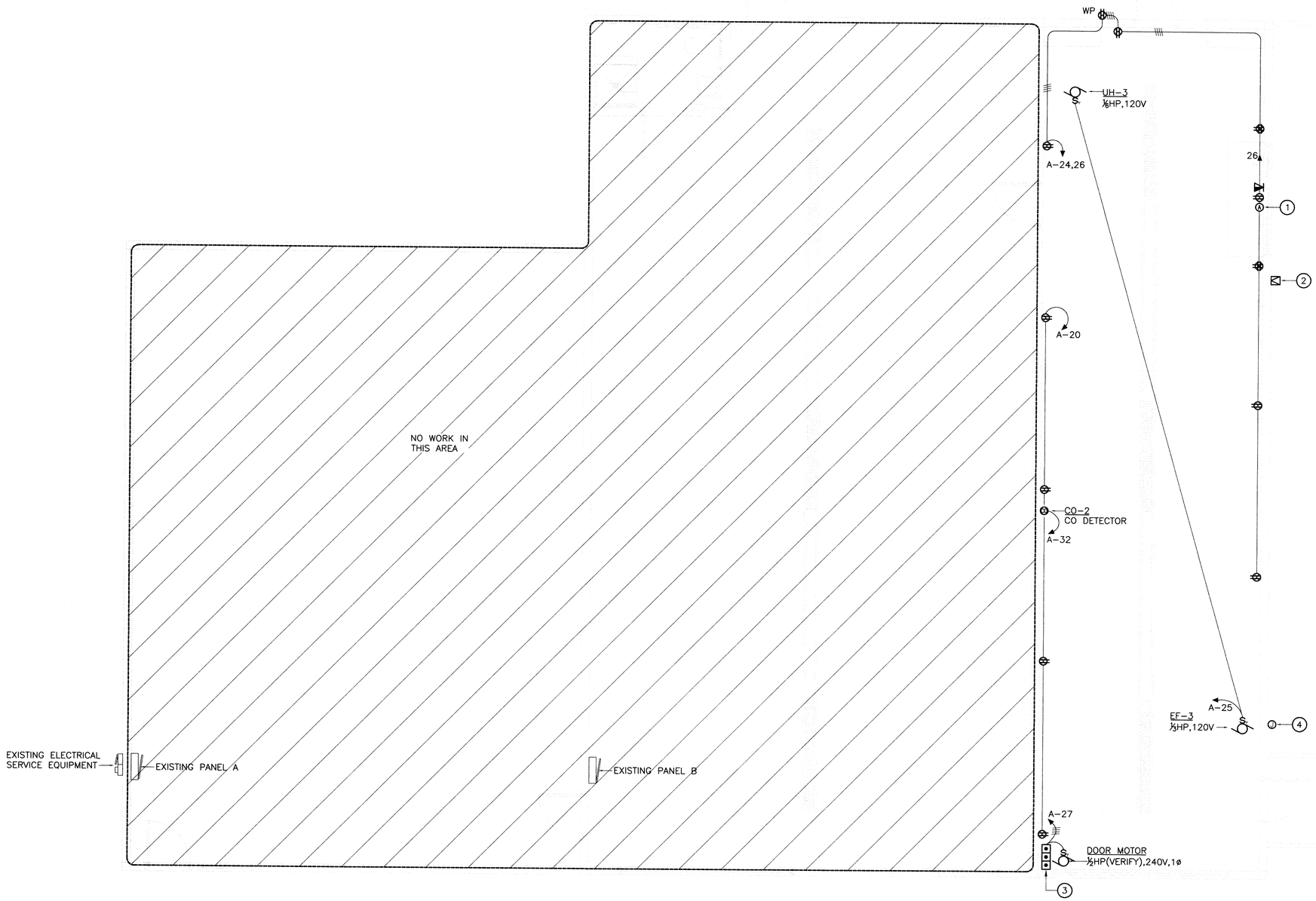

SHEET NOTES:

1. OUTLET FOR ATTACHING A 100W VHF RADIO ANTENNA. PROVIDE RG8 COAXIAL CABLE FROM OUTLET UNDER DESK TO ANTENNA MAST MOUNTED ON THE ROOF. EXACT LOCATION OF ANTENNA TO BE DETERMINED BY OWNER.
2. 100W EXTERIOR SPEAKER WIRED TO WALL PLATE UNDER DESK. EXACT LOCATION OF SPEAKER TO BE DETERMINED BY OWNER.
3. PROVIDE AUTOMATIC GARAGE DOOR OPENER COMPATIBLE WITH EXISTING GARAGE DOOR OPENER SYSTEM.
4. INVESTIGATE EXISTING ELECTRICAL CIRCUIT, RELOCATE ELECTRICAL BOX AND ROUTE NEW CONDUIT UNDER SLAB.
5. INSTALL ELECTRICAL RECEPTACLES AND ANTENNA JACKS AT 24" AFF UNLESS OTHERWISE NOTED.

1 / E-3 POWER AND SIGNAL PLAN

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

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STATE OF ALASKA 49TH THOMAS D. ZIETLOW EE-8392 REGISTERED PROFESSIONAL ENGINEER 3-19-03

ADDITION TO FIRE STATION #62
MSB PROPOSAL # 03-106KNIK/GOOSEBAY ROAD

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Sheet Contents
POWER AND SIGNAL PLANS

Catagory	Sheet
E	3

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OIL-WATER SEPARATOR SCHEDULE

SYMBOL	MANUFACTURER / MODEL	CONNECTION SIZE INLET	CONNECTION SIZE OUTLET	CONNECTION SIZE VENTS	FLOW CAPACITY	TRIM / REMARKS
OS-1	ROCKFORD / OST-5628	4"	4"	3"	35	INTEGRAL 64 GALLON STORAGE, COALESCING PLATE PACK, EPOXY COATING, TOP ACCESS, REINFORCED COVER FOR HEAVY TRAFFIC

FUEL FIRED UNIT HEATER SCHEDULE

SYMBOL	MFGR / MODEL	FUEL	INPUT (MBH)	OUTPUT (MBH)	CFM	ELEC. DATA HP	ELEC. DATA VOLTS/PH	LISTING	REMARKS
UH-3	REZNOR / F-250	GAS	250	200	3,360	1/6	120/1	AGA	SPARK IGNITION, ALUMINIZED STEEL HEAT EXCHANGER, GAS VALVE, POWER VENTER, FOUR POINT SUSPENSION KIT

FAN SCHEDULE

SYMBOL	MFGR / MODEL	TYPE	SERVICE	CFM	TSP (IN. WG)	ELEC. DATA HP	ELEC. DATA VOLTS/PH	DRIVE	REMARKS
EF-3	COOK / 18SP10D	PROPELLER	GENERAL EXHAUST	1,500	0.25	1/3	120/1	DIRECT	SPEED CONTROL SWITCH, 1/2" MESH SCREEN FAN GUARD, OPPOSED BLADE DAMPER

GRILLE SCHEDULE

SYMBOL	MFGR / MODEL	SERVICE	MATERIAL	FINISH	CFM	FACE SIZE INCHES	REMARKS
G-3	PRICE / 152	O/A	ALUMINUM	WHITE	1,500	30x18	DOUBLE DEFLECTION, ADJUSTABLE BLADES, 1-1/2" BLADE SPACING

SENSOR SCHEDULE

SYMBOL	MFGR / MODEL	SERVICE	RANGE	REMARKS
CO-2	MSA TOXGARD II / A-TOX-11BM001	CARBON MONOXIDE	0-100 PPM	BOTTOM MOUNT SENSOR, BUZZER ALARM HORN, ACTIVATE CONTROLLED EQUIPMENT PER SEQUENCE OF OPERATION

MECHANICAL LEGEND

- DENOTES DEMOLITION
- W — WASTE
- VENT PIPING
- COLD WATER
- HOT WATER
- HOT WATER RECIRCULATED
- XXX — SEE ABREVIATIONS FOR MEDIA
- PIPE UP
- PIPE DOWN
- TEE UP
- TEE DOWN
- CAP
- UNION
- DIRECTION OF FLOW
- BALL VALVE
- 2-WAY CONTROL VALVE
- HOSE BIBB
- SUPPLY AIR UP & DOWN (SQUARE) / SUPPLY AIR DIFFUSER / GRILLE
- RETURN AIR UP & DOWN (SQUARE) / RETURN AIR GRILLE
- EXHAUST AIR UP & DOWN (SQUARE) / EXHAUST AIR GRILLE
- 1 — THERMOSTAT OR SENSOR
- POINT OF CONNECTION
- 1 / M1 — DETAIL NUMBER / SHEET LOCATED ON
- 1 — SHEET NOTES

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AMPS	AMPERES
ARCH	ARCHITECTURAL
BDD	BACKDRAFT DAMPER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BTUH	BRITISH THERMAL UNIT / HOUR
C/A	COMBUSTION AIR
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CONT	CONTINUED
CONN	CONNECTION
CW	COLD WATER
ø	DIAMETER
E/A	EXHAUST AIR
EF	EXHAUST FAN
EXH	EXHAUST
EXIST	EXISTING
FT	FEET
FPM	FEET PER MINUTE
F	FAHRENHEIT
G	NATURAL GAS
GPM	GALLONS PER MINUTE
HB	HOSE BIBB
HD	HEAD
HP	HORSEPOWER
MBH	THOUSAND BTU PER HOUR
MFGR	MANUFACTURER
MIN	MINIMUM
MTD	MOUNTED
NTS	NOT TO SCALE
PD	PRESSURE DROP
PH	PHASE
PPM	PARTS PER MILLION
PSI	POUNDS PER INCH
TEMP	TEMPERATURE
TSTAT	THERMOSTAT
TYP	TYPICAL
UH	UNIT HEATER
V	VENT
VTR	VENT THRU ROOF
W	WASTE
W/	WITH
W/O	WITHOUT

GENERAL NOTES & SPECIFICATIONS

PLANS – THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR COMPLETE AND OPERABLE SYSTEMS. THE DRAWINGS ARE PARTLY DIAGRAMMATIC, NOT NECESSARILY SHOWING ALL OFFSETS OR EXACT LOCATIONS OF PIPING AND DUCTS UNLESS SPECIFICALLY DIMENSIONED.

PERMITS – THE CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS AND FEES.

CODE – ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2000 EDITIONS OF THE INTERNATIONAL BUILDING CODE, MECHANICAL CODE, FUEL GAS CODE (IBC, IMC, IFGC), UNIFORM PLUMBING CODE (UPC) AND NATIONAL ELECTRICAL CODE (NEC) AS AMENDED BY THE STATE OF ALASKA. SHEET METAL WORK SHALL BE DONE IN ACCORDANCE WITH SMACNA STANDARDS.

ELECTRICAL WORK – ALL ELECTRICAL WORK IS TO BE PERFORMED BY A LICENSED ELECTRICIAN.

MATERIALS – ALL MATERIALS SHALL BE NEW AND UNUSED, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND IN THE BEST PRACTICE OF THE CRAFT. OBTAIN OWNER'S APPROVAL OF ALL PRODUCTS PRIOR TO ORDERING OR INSTALLING ANY PART OF ANY SYSTEM.

SUBMITTALS – THE CONTRACTOR SHALL SUBMIT PRODUCT DATA COMPILED IN A BOUND NOTEBOOK FOR MECHANICAL SYSTEMS. ALL PRODUCT DATA SHALL BE SUBMITTED AT ONE TIME, PARTIAL SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. PRODUCT DATA SHALL BE APPROPRIATELY MARKED TO INDICATE PROPOSED PRODUCT.

OPERATION AND MAINTENANCE MANUAL – PROVIDE THE OWNER WITH AN OPERATING AND MAINTENANCE MANUAL, TO INCLUDE MANUFACTURER'S SPECIFICATIONS, OPERATING AND MAINTENANCE INSTRUCTIONS, WARRANTY INFORMATION ON EACH PIECE OF EQUIPMENT, AND SCHEMATIC DIAGRAMS OF CONTROL SYSTEMS AS-BUILT, AS WELL AS A SOURCE OF SUPPLY FOR SPARE PARTS AND SERVICE.

ACCESS – PROVIDE WORKABLE ACCESS TO ALL SERVICEABLE AND/OR OPERABLE EQUIPMENT.

TEST AND START-UP – TEST GAS PIPING SYSTEM IN ACCORDANCE WITH THE INTERNATIONAL FUEL GAS CODE.

SUPPORTS AND ANCHORS – PIPING, DUCTWORK, AND EQUIPMENT SHALL BE ADEQUATELY SUPPORTED IN ACCORDANCE WITH CODE REQUIREMENTS AND GOOD PRACTICE.

SLEEVES – PIPING SLEEVES THROUGH FIRE RATED ASSEMBLIES SHALL BE PREMANUFACTURED, UL LISTED ASSEMBLIES. PIPING SLEEVES THROUGH NON FIRE RATED ASSEMBLIES SHALL BE 18 GAUGE GALVANIZED STEEL.

SEISMIC RESTRAINT – PIPING AND DUCTWORK SYSTEMS SHALL BE SEISMICALLY RESTRAINED IN ACCORDANCE WITH SMACNA GUIDELINES FOR SEISMIC RESTRAINT. EQUIPMENT SHALL BE SEISMICALLY RESTRAINED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.

PIPING – SANITARY WASTE AND VENT PIPING SHALL BE CAST IRON HUB AND SPIGOT OR NO-HUB. GAS PIPING SHALL BE SCHEDULE 40 STEEL WITH THREADED FITTINGS. ROUTE PIPES PARALLEL WITH BUILDING LINES UNLESS OTHERWISE INDICATED.

VALVES – VALVES FOR GAS SERVICE SHALL BE AGA APPROVED. PROVIDE GAS ISOLATION VALVES AT EACH GAS APPLIANCE.

INSULATION – PLUMBING VTR'S SHALL BE INSULATED WITH ONE INCH PRE-FORMED FIBERGLASS INSULATION WITH FACTORY APPLIED VAPOR BARRIER JACKET DOWN TO 3 FEET WITHIN THE BUILDING. COMBUSTION AIR AND OUTSIDE AIR DUCTWORK SHALL BE INSULATED WITH 2 INCH RIGID FIBERGLASS INSULATION WITH FACTORY APPLIED VAPOR BARRIER WITH CANVAS COVERING. EXHAUST DUCTWORK SHALL BE INSULATED WITH 1 INCH RIGID FIBERGLASS INSULATION WITH FACTORY APPLIED VAPOR BARRIER WITH CANVAS COVERING.

PLUMBING – PLUMBING EQUIPMENT SHALL BE COMMERCIAL GRADE, MANUFACTURER AND MODEL AS INDICATED ON THE EQUIPMENT SCHEDULES, OR APPROVED EQUAL.

HEATING – HEATING EQUIPMENT SHALL BE COMMERCIAL GRADE, MANUFACTURER AND MODEL AS INDICATED ON THE EQUIPMENT SCHEDULES, OR APPROVED EQUAL. GAS FIRED APPLIANCE FLUE SHALL BE DOUBLE WALL TYPE B GAS VENT, METALBESTOS MODEL RV/QC, OR APPROVED EQUAL.

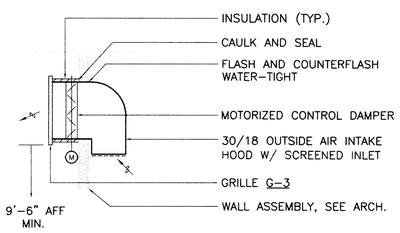
VENTILATION – VENTILATION EQUIPMENT SHALL BE COMMERCIAL GRADE, MANUFACTURER AND MODEL AS INDICATED ON THE EQUIPMENT SCHEDULES, OR APPROVED EQUAL. DUCTWORK SHALL BE GALVANIZED SHEET METAL, SIZE AS INDICATED ON PLANS. DUCTWORK SHALL BE CONSTRUCTED, INSTALLED, AND TESTED IN ACCORDANCE WITH SMACNA STANDARDS. CONTROL DAMPERS FOR OUTSIDE AIR INTAKE AND EXHAUST SHALL BE RUSKIN MODEL CD50 (OR EQUAL) WITH LOW-LEAK NEOPRENE EDGE SEALS, RATED TO -76 DEG F.

CONTROLS SYSTEMS – THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL CONTROL SYSTEM AS REQUIRED TO PROVIDE EQUIPMENT CONTROL AS SPECIFIED UNDER THE SEQUENCE OF OPERATIONS. THE CONTROL SYSTEM SHALL BE AN ELECTRIC TYPE CONTROL SYSTEM. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, POWER, WIRING, CONDUIT, CONTROLLERS, ACTUATORS, AND ASSOCIATED CONTROL COMPONENTS FOR A COMPLETE AND OPERATIONAL SYSTEM. ALL CONTROL WIRING SHALL BE ROUTED IN CONDUIT. THE CONTRACTOR SHALL SUBMIT SYSTEM SHOP DRAWINGS INDICATING PRODUCT DATA, VALVE AND DAMPER SCHEDULES, AND WIRING DIAGRAMS.

SEQUENCE OF OPERATION

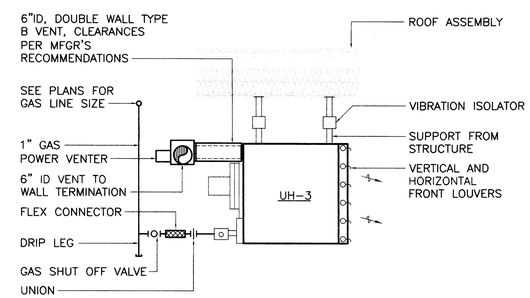
UNIT HEATER – THERMOSTAT SHALL CYCLE UH-3 TO MAINTAIN SETPOINT.

EXHAUST FAN – CARBON MONOXIDE SENSOR CO-2 SHALL OPEN EXHAUST DAMPER, OUTSIDE AIR DAMPER, AND ENERGIZE FAN EF-3 WHEN CO LEVEL RISES ABOVE 25 PPM (ADJUSTABLE). WHEN FAN IS OFF, EXHAUST AND OUTSIDE AIR DAMPER SHALL BE CLOSED. PROVIDE HAND-OFF-AUTO SWITCH ON CO SENSOR.



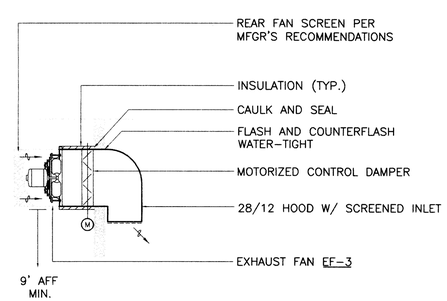
1 / M-1 OUTSIDE AIR INTAKE DETAIL

SCALE: NTS



2 / M-1 UNIT HEATER DETAIL

SCALE: NTS



3 / M-1 EXHAUST FAN DETAIL

SCALE: NTS

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STATE OF ALASKA 49TH JEFFERY M. SCOTT ME-9609 REGISTERED PROFESSIONAL ENGINEER

ADDITION TO FIRE STATION #62
MSB PROPOSAL # 03-106KNIK/GOOSEBAY ROAD

Drawn	Date
JMS	03/19/03
Checked	**Job No.**
JMS	2003.019.0

Sheet Contents
EQUIPMENT SCHEDULES, DETAILS MECH. LEGEND AND GENERAL NOTES

Catagory	Sheet
M	1

HZA
HAY, ZIETLOW & ASSOCIATES, LLC
Mechanical & Electrical Consulting Engineers
113 W. Northern Lights Blvd. Suite 240
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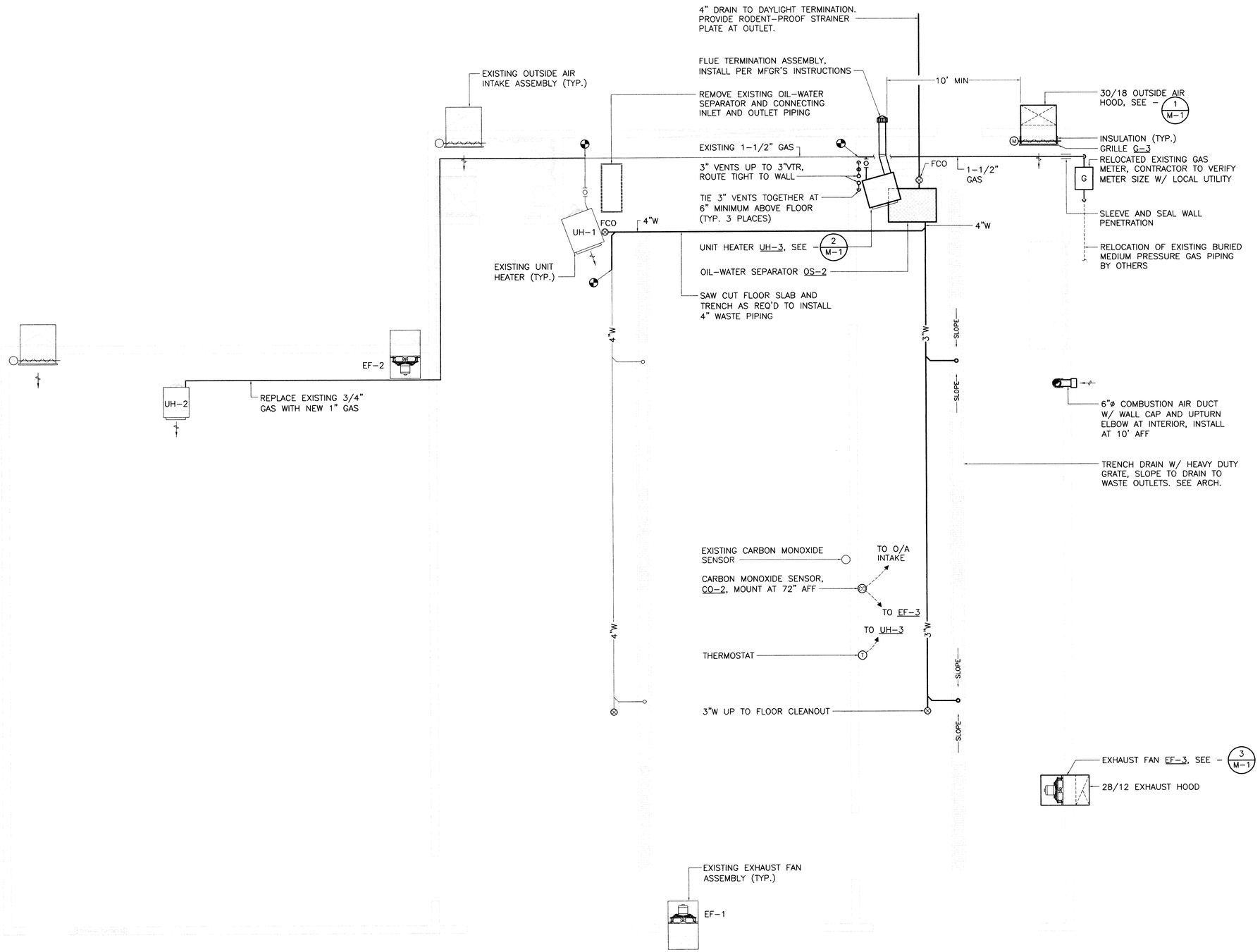

1/M-2 MECHANICAL PLAN

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

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TH	03/19/03
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Sheet Contents
MECHANICAL PLAN

Catagory	Sheet
M	2

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P.8
8E-01

GENERAL STRUCTURAL NOTES

ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS, SPECIFICATIONS AND NOTES LISTED BELOW. MINIMUM PROVISIONS OF THE IBC 2000 CODE AND LOCAL AMENDMENTS SHALL APPLY WHERE DETAILS ARE NOT SHOWN OR DESCRIBED. OTHER APPLICABLE CODES AND STANDARDS ARE GIVEN BELOW.

DESIGN LOADS

UNIFORM LIVE LOADS

1.	FLOORS ON GRADE	250 PSF

ROOF SNOW LOADS LOADS

1.	GROUND SNOW LOAD, Pg	57 PSF
2.	FLAT ROOF SNOW LOAD	45 PSF
3.	UNBALANCED SNOW LOADS	88 PSF
4.	IMPORTANCE FACTOR	1.1

WIND DESIGN DATA

1.	BASIC WIND SPEED	Vfm= 80 MPH	V3s= 100 MPH
2.	IMPORTANCE FACTOR		1.15
3.	EXPOSURE FACTOR		B

EARTHQUAKE DESIGN DATA

1.	SEISMIC USE GROUP		I, Ie=1.25
2.	SPECTRAL RESPONSE COEFF.	S_{DS}	1.0
		S_{D1}	0.6
3.	SITE CLASSIFICATION		D, STIFF SOIL
4.	BASIC FORCE REISISTING SYSTEM		LIGHT FRAMED BEARING WALL
5.	DESIGN BASE SHEAR:		6 KIPS
6.	ANALYSIS PROCEDURE		ELF

FOUNDATIONS

FOUNDATION DESIGN IS BASED ON AN ASSUMED SOIL BEARING CAPACITY OF 2500 PSF, WHICH SHOULD BE VERIFIED AT THE TIME OF EXCAVATION.

ALL ORGANIC MATERIAL, SILT, SNOW, ICE, DEBRIS OR OTHER UNSUITABLE MATERIAL MUST BE REMOVED FROM THE BUILDING AND SLAB FOOTPRINT TO PROVIDE SUITABLE SUBGRADE. NO CONSTRUCTION SHALL BEGIN UNTIL ALL SEASONAL FROST HAS THAWED OR BEEN REMOVED. THE CONTRACTOR SHALL PREVENT FROST OR ICE FROM FORMING UNDER FOOTINGS OR SLABS UNTIL THE PERMANENT STRUCTURE IS ENCLOSED AND HEATED.

THE SUBGRADE SHALL BE PROOF ROLLED PRIOR TO PLACEMENT OF STRUCTURAL FILL. STRUCTURAL FILL SHALL BE AS INDICATED IN THE GEOTECHNICAL REPORT. FOOTINGS SHALL BE PLACED ON STIFF NATIVE SOILS OR COMPACTED STRUCTURAL FILL. STRUCTURAL FILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR IN 8" MAX. LIFTS. WALLS SHALL BE BRACED DURING COMPACTION UNLESS BACKFILL IS WITHIN 1' OF BALANCED CONDITION. PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING.

CONCRETE

ALL CAST-IN-PLACE CONCRETE SHALL HAVE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.

PORTLAND CEMENT SHALL CONFORM TO ASTM C150 (OR ASTM C595 FOR BLENDED PORTLAND CEMENTS). MAXIMUM AGGREGATE SIZE SHALL BE 1". ALL AGGREGATE SHALL BE NORMAL WEIGHT MATERIAL CONFORMING TO ASTM C33.
ALL CONCRETE SHALL CONTAIN A HIGH-RANGE WATER REDUCING ADMIXTURE MEETING ASTM C 494, TYPE F (TYPE E FOR COLD WEATHER CONCRETING) AND NOT MORE THAN 0.1 PERCENT CHLORIDE IONS. BEFORE THE ADDITION OF THE HIGH-RANGE WATER REDUCING ADMIXTURE, THE MAXIMUM SLUMP SHALL BE 3-1/2 INCHES. MAXIMUM WATER/CEMENT RATIO SHALL BE 0.45. MINIMUM CEMENT CONTENT SHALL BE 5-1/2 SACKS PER CUBIC YARD OF CONCRETE.

COLD WEATHER CONCRETE SHALL CONFORM TO ACI 306. ALL COLD WEATHER CONCRETE SHALL CONTAIN AIR ENTRAINMENT AS PER ACI TABLE 4.1.1. CALCIUM CHLORIDE SHALL NOT BE USED.

ALL REINFORCING BARS SHALL MEET ASTM A 615, GRADE 60, UNLESS NOTED. REBAR TO BE WELDED SHALL BE ASTM A 706. ALL CONCRETE REINFORCING SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 318 AND ACI 315. WHERE REQUIRED, DOWELS SHALL MATCH SIZE AND NUMBER OF MAIN REINFORCING.

CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, ANCHOR BOLT SIZE AND MATERIAL, SPACING AND PLACEMENT SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.

MINIMUM CONCRETE COVER SHALL BE:

a. 3" FOR CONCRETE CAST AGAINST THE EARTH.
b. 1 1/2" FOR BARS EXPOSED TO WEATHER AND BEAMS AND COLUMNS.
c. 3/4" FOR SLABS.

ANCHOR BOLTS

ALL ANCHOR BOLTS SHALL BE GALVANIZED. DRILLED IN CONCRETE & MASONRY ANCHORS SHALL BE HILTI OR EQUAL. CONCRETE EPOXY ANCHORS ARE HVA SYSTEM. MASONRY EPOXY ANCHORS ARE HIT C-20 SYSTEM FOR ANCHORS IN HOLLOW MASONRY, AND HIT C-100 SYSTEM FOR GROUTED MASONRY. EXPANSION ANCHORS SHALL BE HSL, KBII OR SLEEVE ANCHORS

ACCEPTABLE DRILLED IN CONCRETE ANCHORS SHALL BE HILTI OR ARCHITECT APPROVED EQUAL. INSTALL DICA OF THE TYPE, SIZE, NUMBER, AND SPACING AS SHOWN ON THE DRAWINGS. DICA SHALL BE GALVANIZED, OR STAINLESS STEEL TYPE 304 OR TYPE 316 WITH APPROPRIATE NUTS, WASHERS, COUPLERS, ETC.

MASONRY

STRUCTURAL CONCRETE MASONRY WALLS SHALL BE 8" UNITS COMPLYING WITH ASTM C90, GRADE N-1, fm'=1500 psi.

GROUT SHALL BE ASTM C-476 WITH SLUMP=8 TO 10 INCHES AND MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI. ALL CORES SHALL BE GROUTED SOLID. MORTAR SHALL BE ASTM C270 TYPE M. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED. GROUT TESTING SHALL BE PERFORMED PER ASTM C1019. THREE SPECIMENS SHALL BE TAKEN: FOR EACH OF THE FIRST THREE DAYS GROUT IS PLACED, AND FOR EACH 25 CUBIC YARDS PLACED, OR FOR EVERY 2500 SQUARE FEET OF WALL (WHICHEVER COMES FIRST), AND AT LEAST ONCE A WEEK WHEN GROUT IS BEING PLACED.

MINIMUM REINFORCING SHALL BE AS SHOWN ON THE DRAWINGS. REINFORCING SHALL BE CONTINUOUS OR LAPPED WITH MINIMUM 40d" LAP SPLICES. USE WIRE POSITIONING DEVICES IN MORTAR JOINTS TO MAINTAIN POSITION OF HORIZONTAL AND VERTICAL REINFORCING STEEL. CONSTRUCTION SHALL CONFORM TO ACI 531 AND THE UBC.

SAWN LUMBER

ALL SAWN LUMBER SHALL CONFORM TO THE "WEST COAST LUMBER INSPECTION BUREAU GRADING AND DRESSING RULES", LATEST EDITION. LUMBER SHALL BE THE SPECIES AND GRADE SHOWN BELOW.

MEMBER	SPECIES	GRADE	COMMENTS
STRUCTURAL WALL STUDS	HEM-FIR	No. 2	
NON-STRUCTURAL WALL STUDS	HEM-FIR	No. 2	
SAWN BEAMS	DOUGLAS FIR	No. 1	
POSTS	DOUGLAS FIR	No. 1	

ALL BOTTOM PLATES BEARING ON CONCRETE SLABS ON GRADE SHALL BE PRESSURE TREATED. UNLESS NOTED OTHERWISE, CONFORM TO NAILING SCHEDULE (TABLE 23-I-Q) UBC. METAL FRAMING ANCHORS AND HANGERS SHALL BE "SIMPSON STRONG TIE" OR APPROVED EQUAL. SOLID 2x_ BLOCKING SHALL BE PROVIDED AT THE ENDS AND AT ALL SUPPORTS OF JOISTS AND RAFTERS.

THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL TIMBER MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT THE PRIOR REVIEW OF THE ARCHITECT.

NO WOOD TREATMENTS OR PRESERVATIVES SHALL BE USED WITHOUT PRIOR REVIEW OF THE ARCHITECT.

ALL NAILS SHALL BE COMMON WIRE NAILS, UNLESS NOTED OTHERWISE. NAILING SHALL CONFORM TO TABLE 23-I-Q OF THE UNIFORM BUILDING CODE.

STANDARD WASHERS SHALL BE USED UNDER ALL BOLT HEADS AND NUTS CONTACTING WOOD. TIMBER CONNECTORS SHALL BE SIMPSON OR ARCHITECT APPROVED EQUAL.

TIMBER AND TIMBER PRODUCTS SHALL BE TRANSPORTED, STORED AND HANDLED IN A WAY THAT WILL NOT CAUSE ANY DAMAGE. ALL PRODUCTS SHALL BE KEPT DRY.

STRUCTURAL-USE WOOD PANELS

WOOD SHEATHING PANELS SHALL CONFORM TO U.S. PRODUCT ST PS 1, LATEST EDITION, AND HAVE PROPERTIES LISTED IN THE TABLE BELOW.

SHEATHING	PANEL GRADE	NOM. THICKNESS	SPAN RATING	EXPOSURE
ROOF SHEATHING	APA RATED	5/8"	42/20	EXPOSURE 1
SHEAR WALLS	APA RATED	15/32" or 1/2"	24/0	EXPOSURE 1

SEE DRAWINGS FOR NAILING REQUIREMENTS. MINIMUM NAILING SHALL BE 8d AT 4" O.C. AT ALL SUPPORTED EDGES AND 12" O.C. THROUGH FIELD. ALL PLYWOOD USED IN SHEAR WALLS SHALL BE BLOCKED AT THE FREE EDGES. SEE DRAWINGS FOR ROOF AND FLOOR DIAPHRAGM BLOCKING REQUIREMENTS.

INSTALL ALL PLYWOOD WITH THE LONG DIMENSION OF THE PANEL ACROSS SUPPORTS, UNLESS NOTED OTHERWISE, WITH THE PANEL OVER TWO OR MORE SPANS. ALLOW 1/8 INCH SPACING AT PANEL ENDS AND 1/4 INCH AT PANEL EDGES, UNLESS OTHERWISE RECOMMENDED BY THE PANEL MANUFACTURER.

PLYWOOD SHALL BE USED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN PLYWOOD ASSOCIATION.

ALL PLYWOOD FLOOR PANELS SHALL BE GLUE-NAILED TO FLOOR FRAMING PER THE PLANS. USE ONLY ADHESIVES CONFORMING TO APA SPECIFICATION AFG-01, APPLIED PER MANUFACTURER'S RECOMMENDATIONS.

PREFABRICATED WOOD PRODUCTS

PREFABRICATED BEAMS, HEADERS AND RIM JOIST SHALL BE BY TJI OR ENGINEER APPROVED EQUAL AND SHALL HAVE THE FOLLOWING PROPERTIES.

TYPE	Fv (PSI)	Fb (PSI)	E (KSI)
TIMBERSTRAND, LSL	285	2250	1500
MICROLAM, LVL	285	2600	1900
PARALLAM, PSL	290	2900	2000

ABBREVIATION KEY

&	And
∠	Angle
@	At
~C	Center Line
ø	Diameter or Round
#	Pound or Number
A.B.	Anchor Bolt
ADJ.	Adjustable, Adjacent
AGGR.	Aggregate
ALT.	Alternate
ANCH.	Anchor, Anchorage
APPROX.	Approximate
ARCH.	Architectural
AWW.	All Weather Wood
B/BTM	Bottom
BRG.	Bearing
BLDG.	Building
BLK.	Block
BLKG.	Blocking
BM.	Beam
BOT.	Bottom
B.O.	Bottom Of
BTWN	Between
C.	Channel Section
C.I.P.	Cast In Place
CJ.	Control Joint
CON. JT.	Construction Joint
CLG.	Ceiling
CLR.	Clear
CMU	Concrete Masonry Unit
COL.	Column
CONC.	Concrete
CONN.	Connection
CONSTR.	Construction
CONT.	Continuous
CONTR.	Contractor
COORD.	Coordinate
CP	Complete Penetration
CTSK.	Countersunk
CTR.	Center
DB	Diaphragm Boundary
DBL.	Double
DEMO	Demolition
DIA.	Diameter
DIAG.	Diagonal
DICA.	Drilled in Concrete Anchor
DIM.	Dimension
DIMA.	Drilled in Masonry Anchor
DL	Dead Load
DN.	Down
DO	Ditto
DTL.	Detail
DWG.	Drawing
(E)	Existing
EA.	Each
EC	Epoxy Coat
E.F.	Each Face
E.J.	Expansion Joint
ELEV.	Elevation
ELEC.	Electrical
ENG.	Engineer
EQ	Equal, Earthquake
EQUIP.	Equipment
EXST.	Existing
EXP.	Expansion
EXT.	Exterior
E.W.	Each Way
F.B.	Flat Bar
F.D.	Floor Drain
FDN.	Foundation
FF	Finished Floor
FIN.	Finish
FL.	Floor
F.O.	Face of
F.O.BM.	Face of Beam
F.O.S.	Face of Steel or Stud
F.O.C.	Face of Concrete
FRMG.	Framing
F.S.	Far Side
FT.	Foot or Feet
FTG.	Footing
GA.	Gauge
GALV.	Galvanized
GLB	Glue Laminated Beam
GR.	Grade
GWB.	Gypsum Wallboard
HD	Holdown
HDG	Hot Dip Galvanized
HDR.	Header
HOR.	Horizontal
HT.	Height
I.D.	Inside Diameter
INSUL	Insulation
INT.	Interior
INTMD.	Intermediate
JST	Joist
JT.	Joint

L	Long, Length, Angle
Ld	Development Length
LOC.	Location
LLV	Long Leg Vertical
LLH	Long Leg Horizontal
LONG.	Longitudinal
MAX.	Maximum
MC	Moment Connection
	Misc. Channel
MECH.	Mechanical
MEMB.	Membrane
MFR.	Manufacturer
MID.	Middle
MIN.	Minimum
MISC.	Miscellaneous
MTL.	Metal
(N)	New
NFS	Non-Frost Susceptible
N.I.C.	Not in Contract
NO. or #	Number
NOM.	Nominal
N.S.	Near Side
N.T.S.	Not to Scale
O.A.	Overall
O.C.	On Center
O.D.	Outside Diameter (Dim.)
OPNG.	Opening
OPP.	Opposite
PAR	Parallel
PEN	Panel Edge Nailing
PERIM.	Perimeter
P.C.	Pre-Cast
~P	Plate
PMJ	Premolded Joint Filler
PLF	Pounds Per Linear Feet
PLYWD.	Plywood
PSF	Pounds Per Square Foot
PSI	Pounds Per Square Inch
PT.	Point
P.T.	Pressure-Treated
QTY	Quantity
R	Radius, Reaction
RAD.	Radius
REF.	Reference, Refer
REINF.	Reinforced
REQ'D.	Required
REV	Revision
RMV.	Remove
R.O.	Rough Opening
SCHED.	Schedule
SECT.	Section
SHT.	Sheet
SIM.	Similar
SL	Snow Load, Slope
SOG.	Slab on Grade
SPCG.	Spacing
SPEC.	Specification
SQ.	Square
SSH	Short Slotted Hole
SST.	Stainless Steel
STD.	Standard
STFNR.	Stiffener
STL.	Steel
STOR.	Storage
STRUCT.	Structural
SYM.	Symmetrical
T	Top
TEMP	Temporary
T.&B.	Top & Bottom
T.&G.	Tongue and Groove
THK or t	Thick
T.O.	Top Of
T.O.B.	Top Of Beam
T.O.W.	Top Of Wall
T.O.S.	Top Of Steel, Slab
TRANS.	Transverse
TS	Tube Steel
TYP.	Typical
U.B.C.	Uniform Building Code
UNO	Unless Noted Otherwise
V. VERT.	Vertical
VER.	Verify
VEST.	Vestibule
VERT.	Vertical
W	Wideflange, Wide, Width
WD.	Wood
w/	With
w/o	Without
WP	Work Point
	Water Proofing
WWF	Welded Wire Fabric

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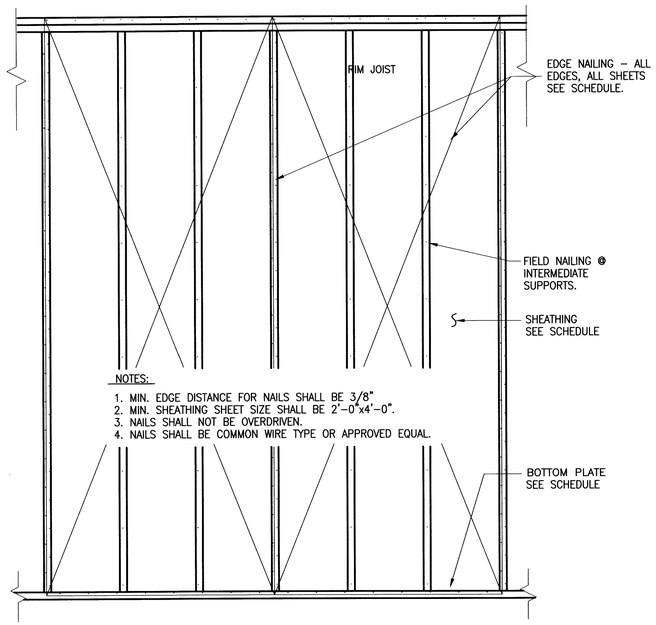
STATE OF ALASKA 49TH
F.C. KENLEY
CE-6251
Registered Professional Engineer

ADDITION TO FIRE STATION #62
MSB PROPOSAL # 03-106KNIK/GOOSEBAY ROAD

Drawn	Date
CK	3/7/03
Checked	**Job No.**
CK	0231.01

Sheet Contents
GENERAL NOTES

Catagory	Sheet
S	1

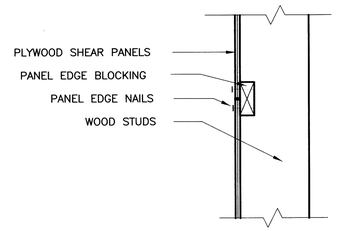


NOTES:

1. MIN. EDGE DISTANCE FOR NAILS SHALL BE 3/8"
2. MIN. SHEATHING SHEET SIZE SHALL BE 2'–0"x4'–0".
3. NAILS SHALL NOT BE OVERDRIVEN.
4. NAILS SHALL BE COMMON WIRE TYPE OR APPROVED EQUAL.

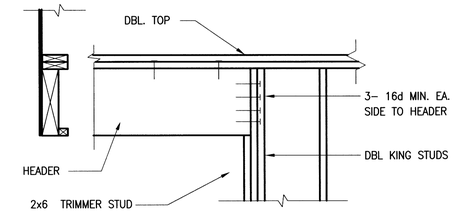
1 / S2 TYPICAL EXTERIOR SHEATHING PANELS

NTS



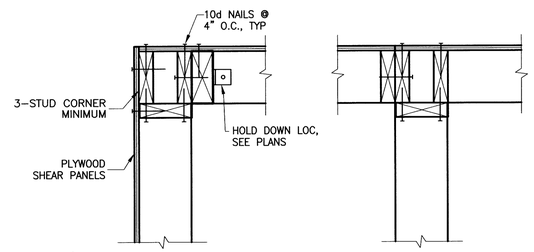
2 / S2 SHEAR PANEL EDGE BLOCKING

NTS



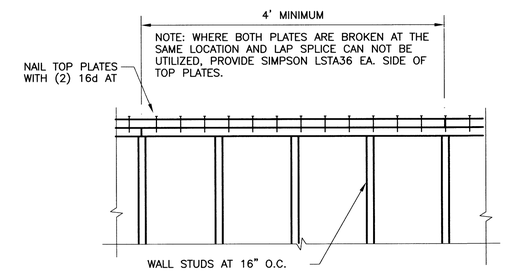
4 / S2 TYPICAL EXTERIOR HEADER

NTS



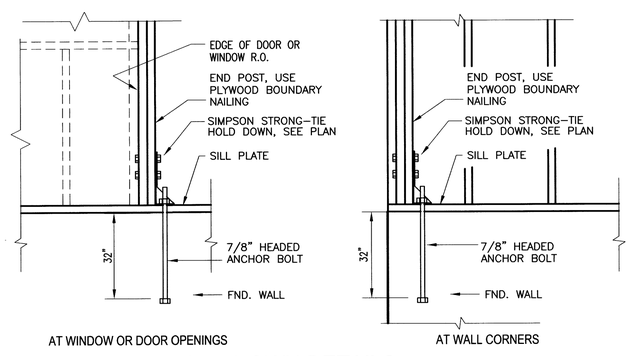
3 / S2 TYPICAL STUD WALL CORNER

NTS



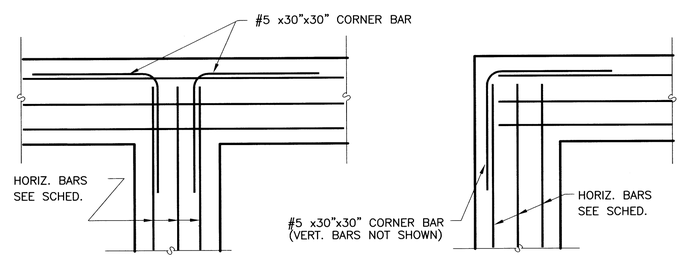
5 / S2 TYPICAL TOP PLATE SPLICE

NTS



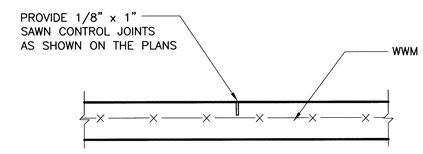
6 / S2 TYPICAL HOLD DOWN DETAILS

NTS



7 / S2 TYPICAL FOOTING CORNERS

NTS



TYP. SAWN CONTROL JOINT

NOTE:

POUR CONCRETE SLABS IN RECTANGLES.
SAW CUT SLABS AT GRIDS LINES
OR AS SHOWN ON THE DRAWINGS TO FORM
RECTANGLES NOT MORE THAN 25' PER SIDE.

8 / S2 TYPICAL SLAB CONTROL JOINTS

NTS

Wolf Architecture
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STATE OF ALASKA 49TH
F.C. KENLEY
CE-6251
Registered Professional Engineer

ADDITION TO FIRE STATION #62
MSB PROPOSAL # 03-106KNIK/GOOSEBAY ROAD

Drawn	Date
CK	3/7/03
Checked	**Job No.**
CK	0231.01

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TYPICAL DETAILS

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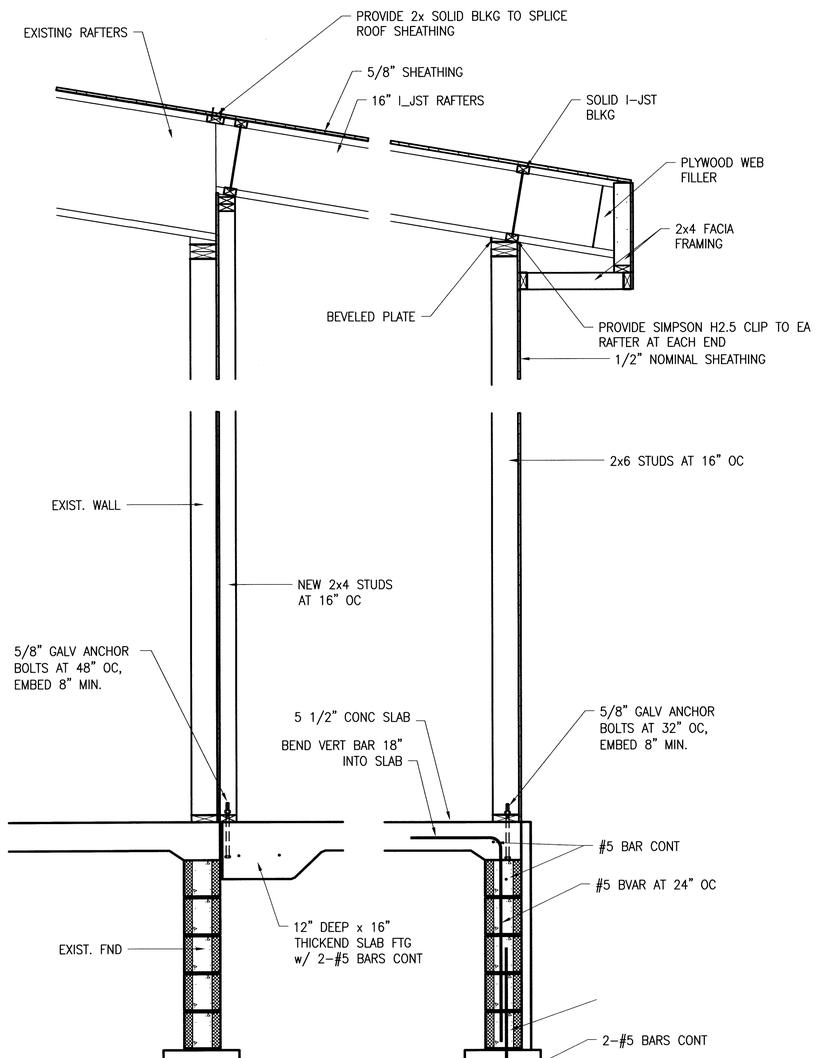
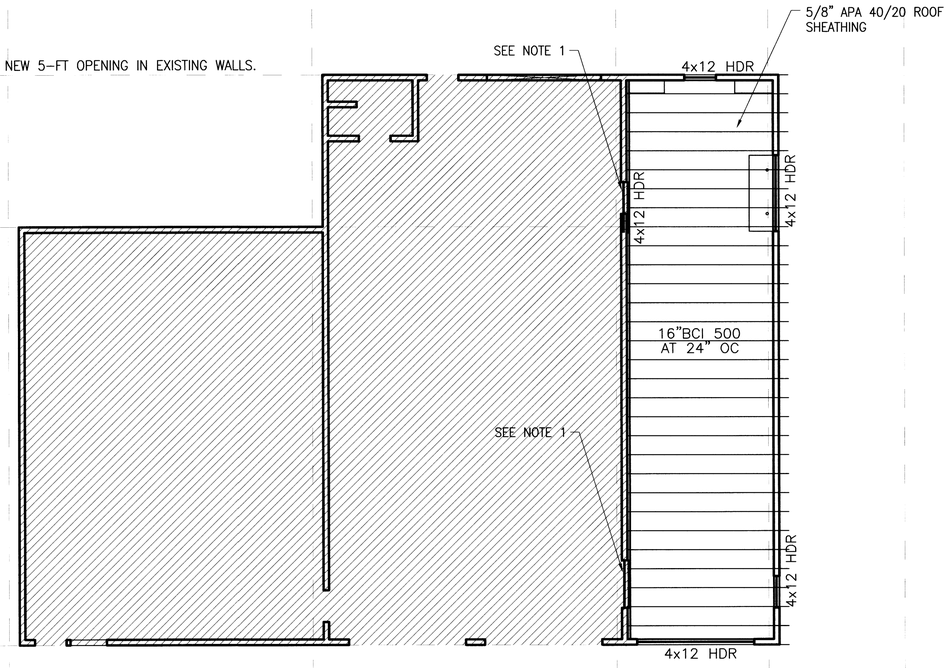


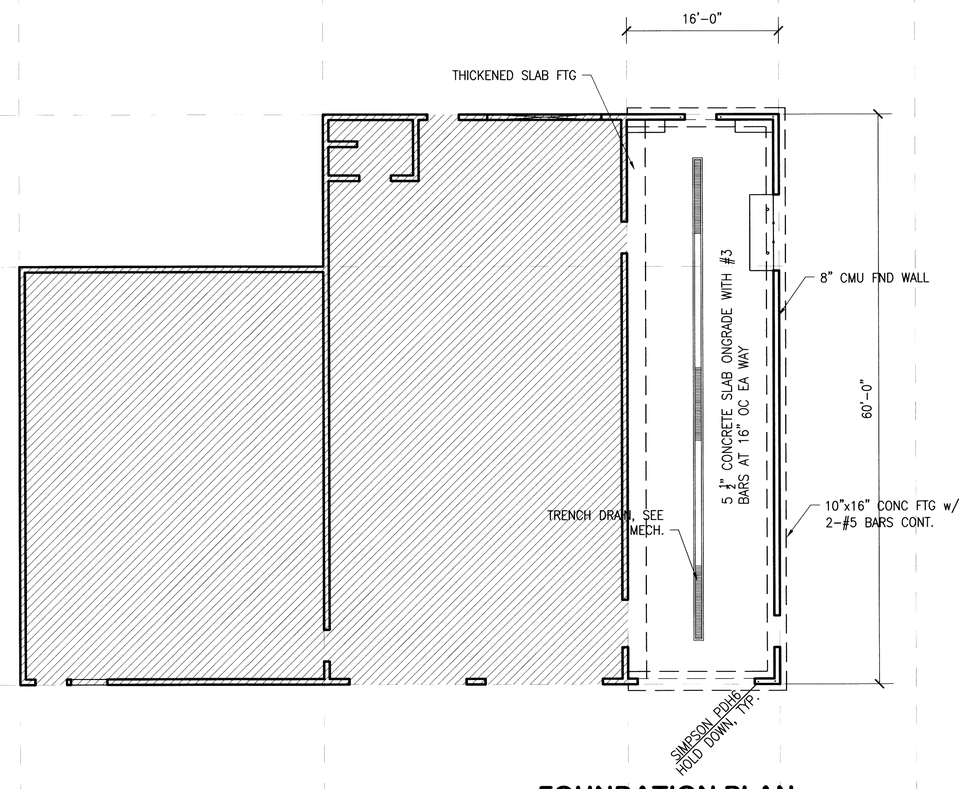
WALL SECTIONS

NOTES:

1. PROVIDE NEW 3 1/8"x12 GLB HEADER AT NEW 5-FT OPENING IN EXISTING WALLS.



ROOF FRAMING PLAN



FOUNDATION PLAN

WOLF ITECTURE
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STATE OF ALASKA 49TH
F.C. KENLEY
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CK	0231.01

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ROOF FRAMING PLAN

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