General Notes

1. All construction is to conform to the 1991 Uniform Building Code and all other applicable local codes.
2. The area of disturbance for this project is limited to the grading limits for additional parking and driveway areas.
3. All organics and topsoil within the construction limits shall be removed and disposed of off-site.
4. Provide fire extinguishers per UFC Standard 10-1.
5. Contractor is to inspect plywood at existing roof after roofing has been removed. Plywood shall be replaced if required to provide adequate substrate for new roofing.
6. Contractor is to maintain and pay for electrical service to water well during construciton.

Code Review

Occupancy: B-1
Fire Rating @ Exterior Walls: 1 hr less than 20'
Openings at Exterior Walls: Not permitted less than 5'
Protected less than 10'
Construction: Type V-N
Square Footage: Existing: 1,280 SF
New: 1,920 SF
Total: 3,200 SF
Construction: Wood Framing on Concrete Foundation
Sprinklered: No

Drawing Index

Cover Sheet
A1 Site Plan, Structural Notes
A2 Demolition and Floor Plan, Details, Door Schedule
A3 Exterior Elevations

M1 Mechanical Plan, Schedule & Legend
M2 Plumbing Plan and Details

E1 Electrical Plan

Addition to the Knik Fire Hall Substation - Substation 62

Wasilla, AK

for the
Matanuska-Susitna Borough
350 E Dahlia Av
Palmer, AK 645

September 16, 1994

ELEC AS-BUILTS & STRUCTURAL AS-BUILTS & Mechanical As-builts

Matanuska Electrical Inc.
P. O. Box 871885
Wasilla, Alaska 99687

PRJ-22-03-00104
Addition to the Knik Fire Hall Station 62 11-16-94
Flatfile - 7A-11
7A-11 B1

Structural Notes

THE FOLLOWING NOTES APPLY UNLESS NOTED OTHERWISE

CODE: Uniform Building Code 1991 Edition

DESIGN SOIL PRESSURE: 1500 psf max. dead + live load. Cast footings on backfill compacted to a minimum of 95% maximum density. Cast slab on grade over 6" thick compacted granular fill over compacted subgrade.

DESIGN LIVE LOADS:
ROOF: 120 psf snow
WIND: 100 mph, exposure B, qs = 26 psi; I = 15
SEISMIC: Zone 4, Z=0.4; I=1,25; C=2.75; Rw=8.

REINFORCED CONCRETE
All concrete – F'c=3000 psi; 5 1/2" sack cement minimum per cubic yard. Submit mix design for approval on the following basis:

f'c	Maximum Slump	Location
2500 psi	3"	Slabs on grade
3000 psi	4"	All other locations

All concrete shall be with 4% air entrainment.

Reinforcing steel bars per ASTM A615, Grade 60. Lap bars with Class B splice. Field bending bars not permitted.

Concrete cover: Footing 3". Cover to be not less than bar diameter.

Footings: Provide (2) #5 longitudinal bottom bars in wall footings. Provide corner bars of same size and number at corners, 40 diameter each leg. Provide vertical dowels of same size, number and spacing as vertical bars with a 90 d. standard hook at bottom footing.

Slabs: Rigidly support bars with concrete blocks or approved accessories.

Anchor Bolts: ASTM A307.

REINFORCED MASONRY

f'm=1500 psi. Hollow load-bearing concrete masonry units, grade N-1 per ASTM C90. Type "M" mortar, per ASTM C270.

Concrete grout fill f'c=2500 psi, maximum W/C=.56; 5 sacks of cement minimum per cubic yard. Submit mix design. Pea Gravel aggregate – 9"+-1" slump. Fill all cells with concrete grout.

Reinforcing steel per ASTM A615, Grade 60. Lap bars 40 diameter at splices. Field bending bars not permitted. Reinforce walls with 8" high bond beams at 4'-0" o.c. reinforced with #5 bars except (2) #5 bars at top of wall. PRovide #5 @ 32" o.c. vertical bars at centerline of wall plus (1) #5 vertical bar at each corner. Provide corner bars of same size and number as required for bond beams at corners.

GLUE LAMINATED BEAMS

Beams and girders-Douglas fir species, combination 22F-V4. Fabricate per AITC 117-82. Provide wet-use adhesives. Moisture content – 14% maximum. Appearance – Industrial grade. Submit shop drawings. Use mild steel plate washers at all bolt heads and nuts bearing on wood. Camber roof beams with span greater than 15', L/360 at midspan.

STRUCTURAL SAWN LUMBER

Lumber visually graded and stamped per WWPA standard grading rules hem-fir #2 or better. Moisture content of lumber 2" or less in thickness – 19% max.

Conventional construction provisions per Section 2517 of the UBC. Minimum nailing for connection of various componenets per Table 25Q of the UBC. Treat wood bearing on or within 1" of masonry or concrete with preservative. Use mild steel plate washers at all bolt heads and nuts bearing on wood. Use galvanized common nails only. Use galvanized framing hardware manufactured by Simpson or approved equal. ICBO certification required.

PREFABRICATED TIMBER JOISTS

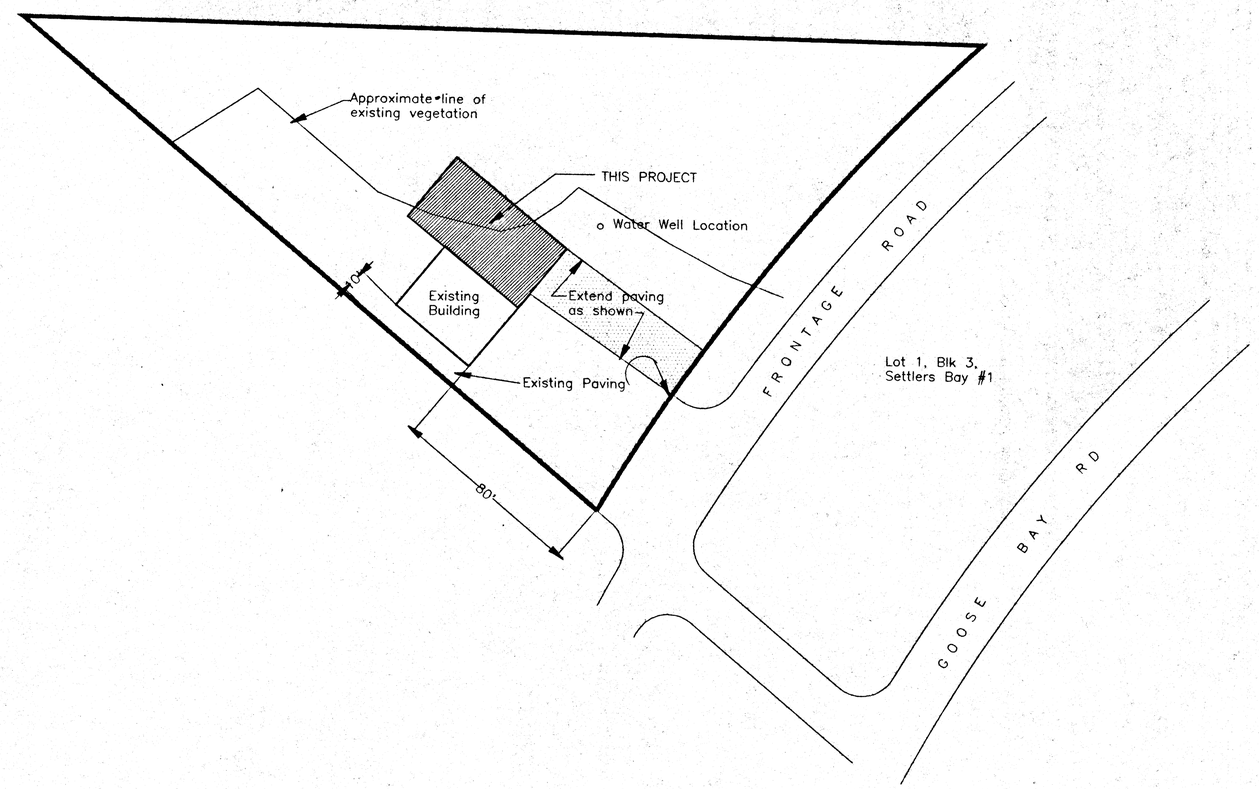
Joist designed and manufactured by Trus-Joist Corporation or an approved equal with solid plywood webs and wood chords. ICBO certificaiton required.

Joist designations are per Trus-Joist standards and chord sizes referenced are minimum only. Provide chord sizes as required by design. Roof design dead load – 15 psf minimum. Design for support of dead and live loads and mechanical equipment, piping, partitions, etc. as required. Coordinate weights, locations, and support details. Submit shop drawings. Provide standard camber in all joists. Provide bridging and erection bracing per manufacturer's instructions.

PLYWOOD

Plywood APA grade and trade-marked laid face grain perpendicular to supports.
Roof Sheathing: 5/8" thick, 40/20 span rating.
Wall Sheathing: 1/2" thick, 32/16 span rating, except T-1-11 Siding, 24/0 span rating.
Provide 2x4 blocking at all unsupported panel edges.
Nail all panel edges as follows:
Roof Sheathing: 10d @ 6" o.c.
Wall Sheathing: SWA: 8d @ 6" o.c.
SWB: 8d @ 4" o.c.
SWC: Not applicable

Nail all panel intermediate supports as follows:
Roof Sheathing: 10d @ 12" o.c.
Wall Sheathing: 8d @ 12" o.c.



Site Plan

1"=30'

STATE OF ALASKA 49TH Hillie Cain A-8184 REGISTERED PROFESSIONAL ARCHITECT

C2 ARCHITECTS
801 W Firewood Ln Ste 101 Anchorage, AK
(907)279-4543

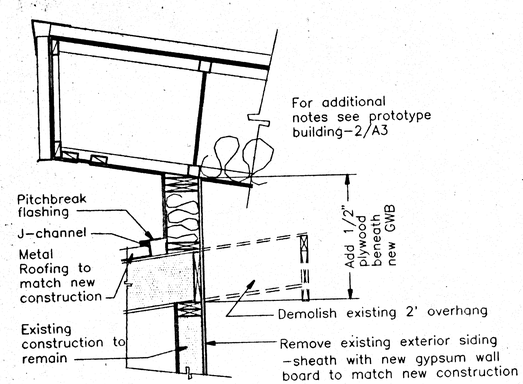
Revisions:

Addition to Knik Public Safety Building
MATANUSKA-SUSITNA BOROUGH
PALMER, AK

Site Plan

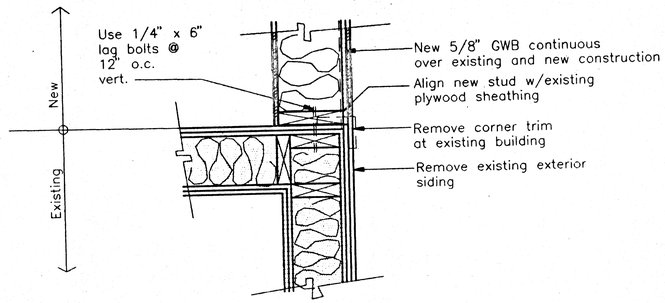
A1

7A-11 p.2



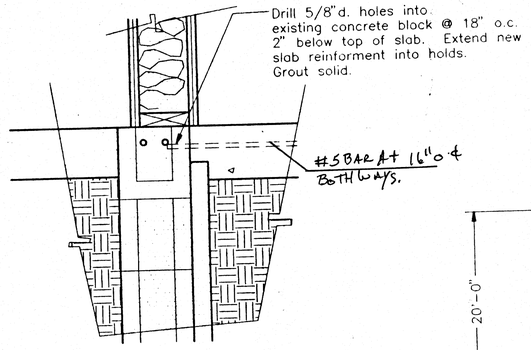
4 Detail @ Roof Transition

3/4"=1'



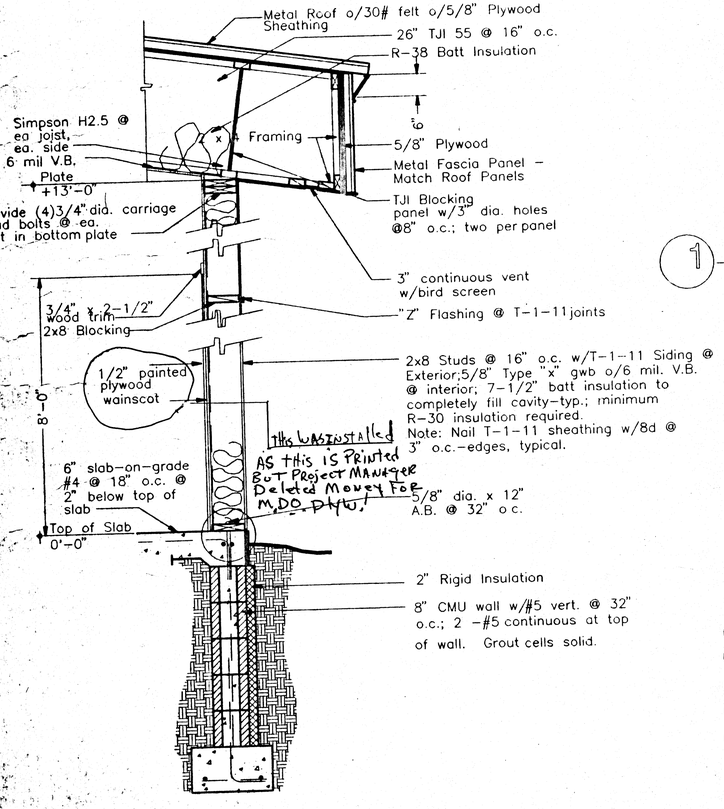
2 Wall Connection Detail

1-1/2"=1'



1 Slab Connection Detail

1-1/2"=1'



3 Wall Type

3/4"=1'

Demolition Notes

1. Remove overhead doors
2. Remove existing roofing - See General Note 5
3. Remove existing exterior siding
4. Remove existing interior finishes
5. Remove exterior siding, retain 1/2" CDX plywood beneath; provide additional 1/2" plywood as required to provide flush surface for 5/8" GWB to match new construction
6. Remove existing concrete slab

Door Schedule

Door #	Size	Type	Fr	Details Head	Details Jamb	Details Thresh	Hdwe Grp.	Glaz'g	Rat'g	Remarks
101							2			1
102										1
103										1
104										1
105							4			1
106							3			4
107	3'x7'	A	HM	7/A4	7/A4	7/A4	2			2, 3

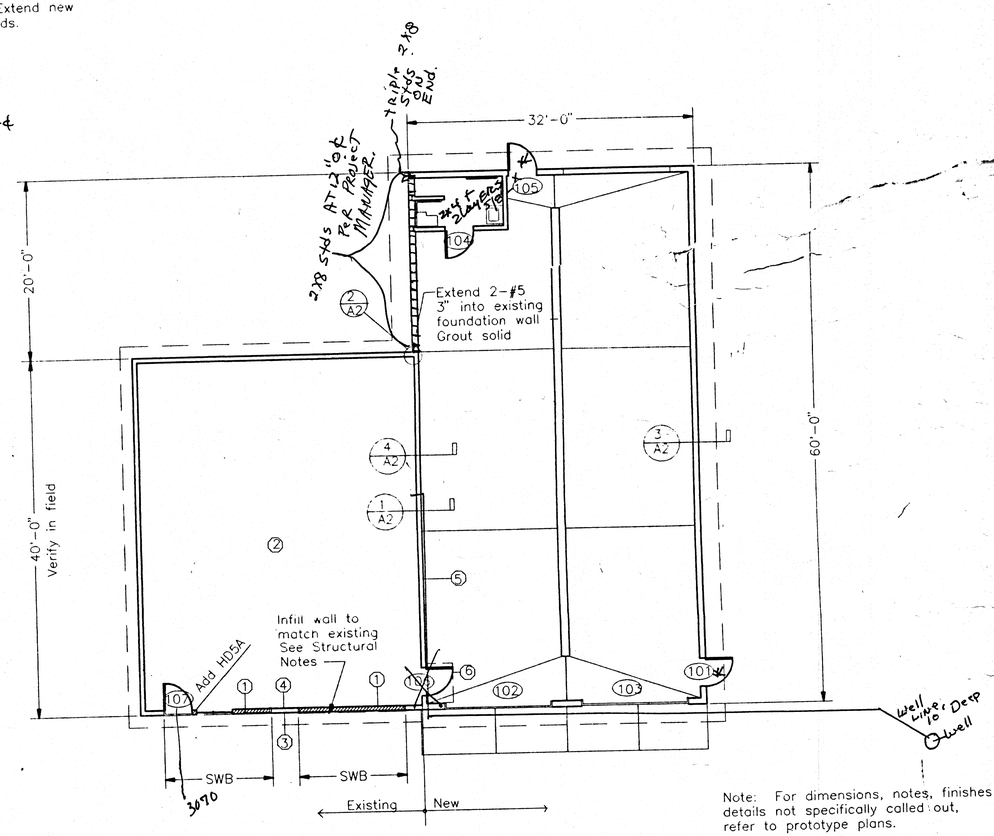
1- 5 3/4 KD. P&D FRAME @ 107, 101, 105

DOOR SCHEDULE NOTES

1. Identical to door as scheduled in prototype drawings. Refer to protoypical for all information.
2. Refer to prototypical for door types and details not shown herein.
3. Referenced details are similar to those required; wall thickness is 6".
4. Remove existing door hardware and replace as scheduled.

HARDWARE GROUPS

HW-4-
1-1/2 pr butts; Lawrence BB515T 32D
1 ea entrance set; Schlage H110
1 ea Door Closer; LCN 4040 EDA
1 ea Weatherstrip; Pemko 375 AR
1 ea Door Bottom; Pemko 216 AV
1 ea Threshold; Pemko254AV 36



Note: For dimensions, notes, finishes and details not specifically called out, refer to prototype plans.

Floor Plan

1/8"=1'

STATE OF ALASKA 49TH H. Idle Cant A-8184 REGISTERED PROFESSIONAL ARCHITECT

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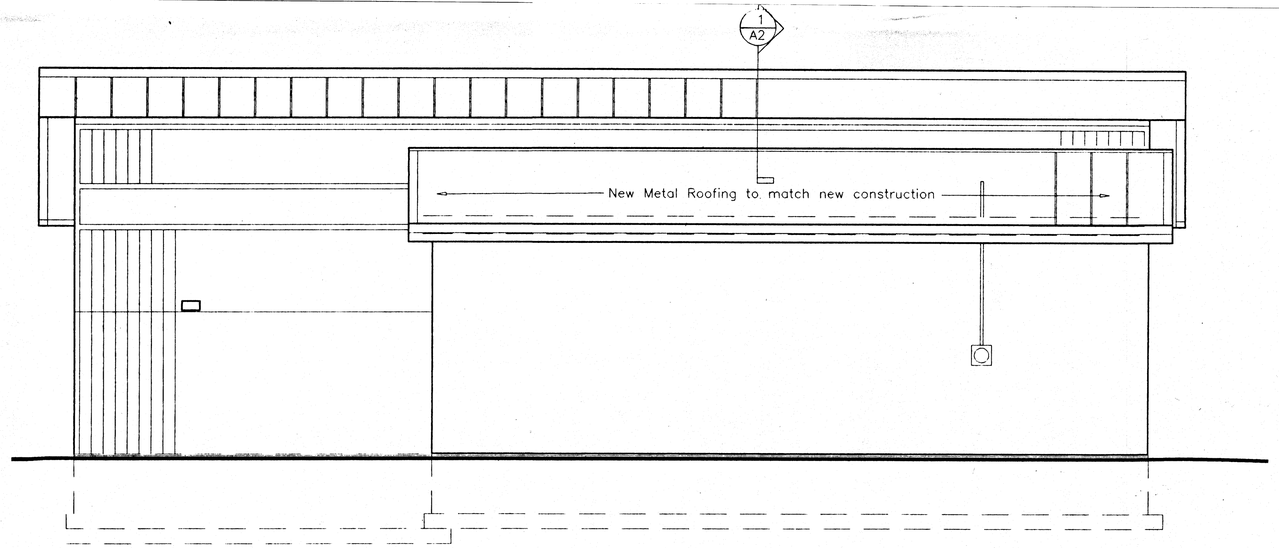
Addition to Knik Public Safety Building
MATANUSKA-SUSITNA BOROUGH
PALMER, AK

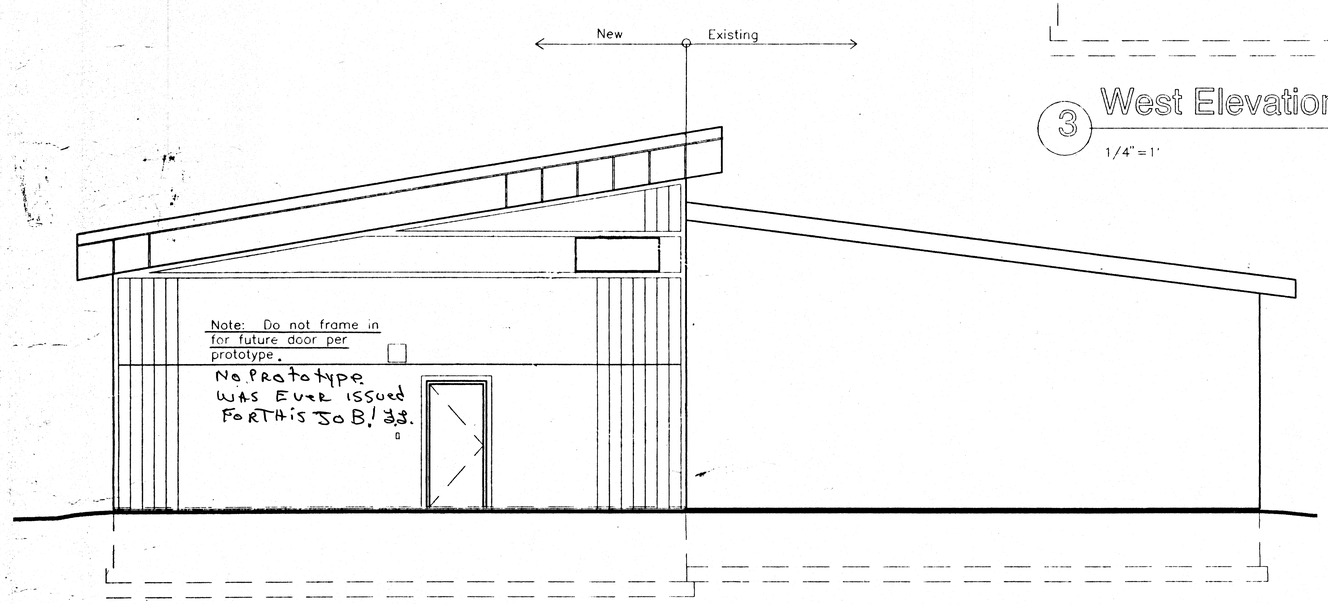
Floor Plan, Demolition Notes, Details

A2



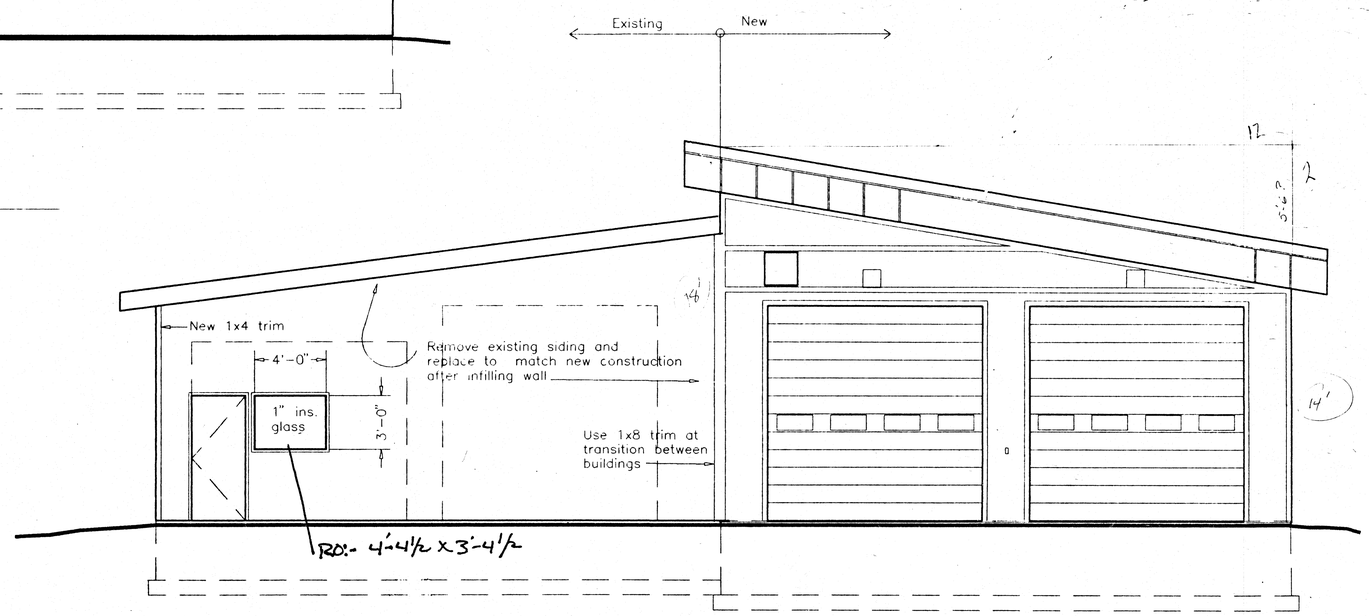
3 West Elevation

1/4" = 1'



2 North Elevation

1/4" = 1'



1 South Elevation

1/4" = 1'

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801 W. Fireweed Ln. Ste 101 Anchorage, AK
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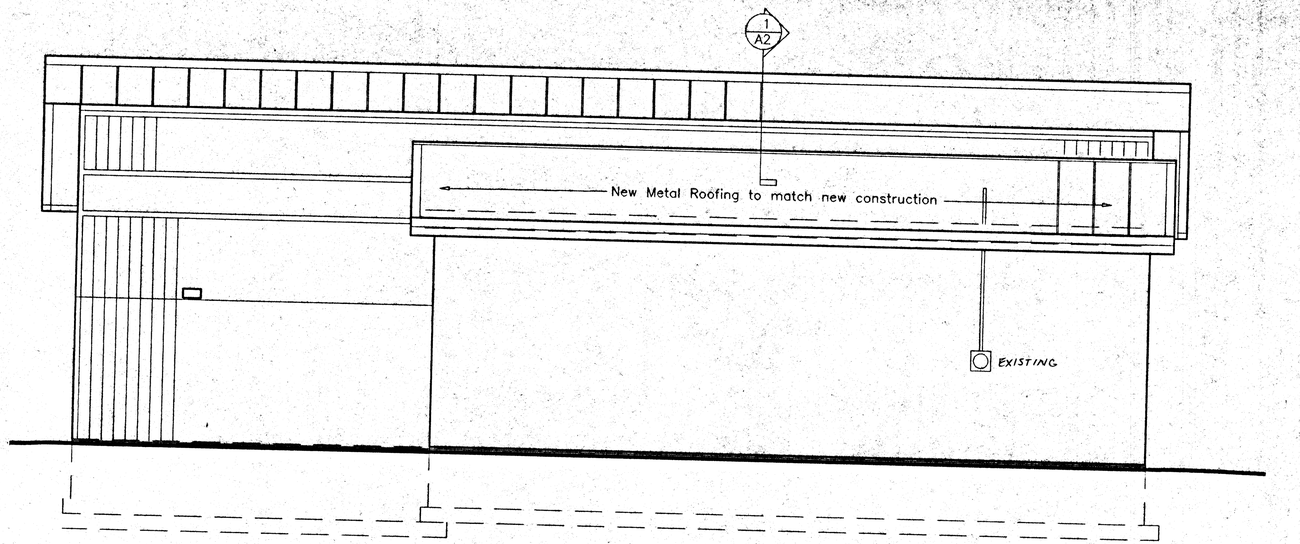
Revisions:

Addition to Knik Public Safety Building
MATANUSKA-SUSITNA BOROUGH
PALMER, AK

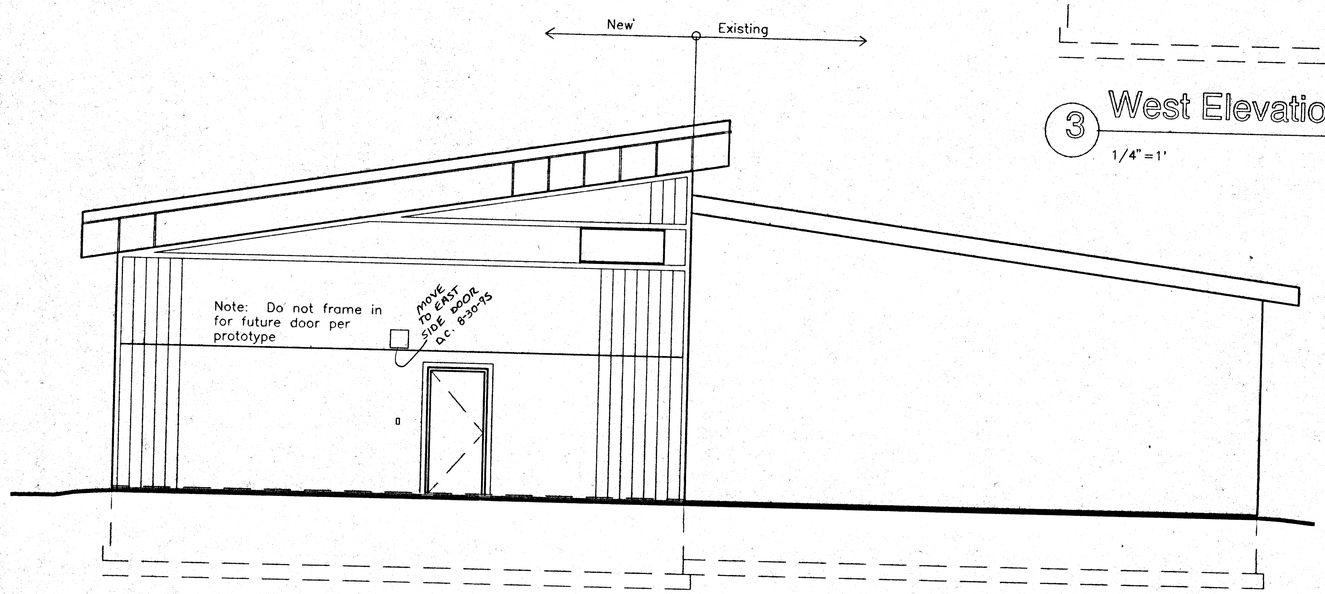
Exterior Elevations

A3



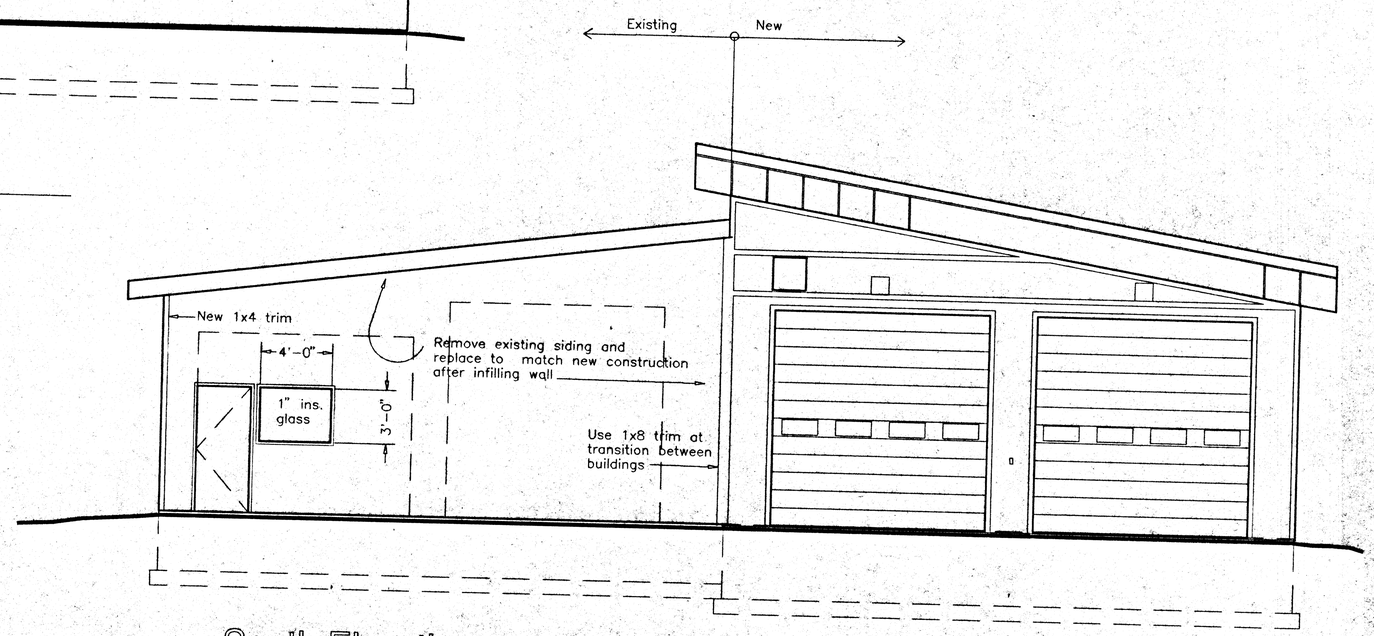
3 West Elevation

1/4" = 1'



2 North Elevation

1/4" = 1'



1 South Elevation

1/4" = 1'

STATE OF ALASKA
49TH
Hildie Cain
A-8154
REGISTERED PROFESSIONAL ARCHITECT

C2 ARCHITECTS
801 W Fireweed Ln Ste 101 Anchorage, AK
(907)279-4543

Revisions:

Addition to Knik Public Safety Building

MATANUSKA-SUSITNA BOROUGH
PALMER, AK

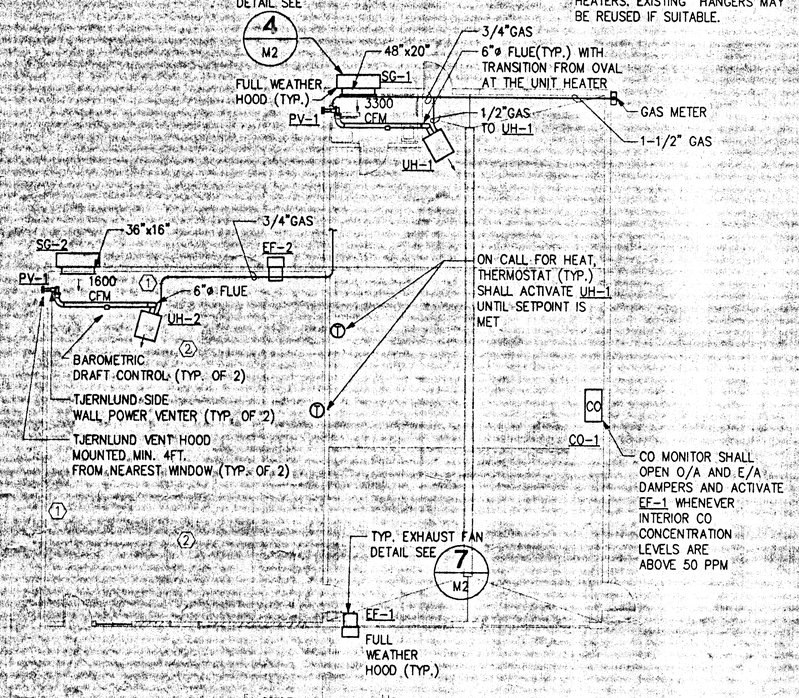
Elec. As-built

Exterior Elevations

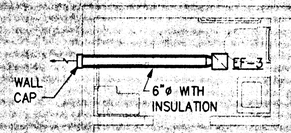
P. 8

A3A

7A-11



1 MECHANICAL PLAN
M1 SCALE: 1/8" = 1'-0"



2 TOILET EXHAUST DUCTWORK
M1 SCALE: 1/4" = 1'-0"

DEMOLITION NOTES:

1. EXISTING THERMOSTATS TO BE REMOVED.
2. REMOVE EXISTING ELECTRIC UNIT HEATERS. EXISTING HANGERS MAY BE REUSED IF SUITABLE.

MISCELLANEOUS EQUIPMENT LIST

UH-1 REZNOR GAS FIRED UNIT HEATER MODEL F-250 WITH 200,000 BTU/HR OUTPUT, 3360 CFM, 850 RPM, 22" FAN 115V/60HZ/1ø, 1/6 HP FAN MOTOR

UH-2 REZNOR GAS FIRED UNIT HEATER MODEL F-130 WITH 130,000 BTU/HR OUTPUT, 1600 CFM, 1050 RPM, 14" FAN 115V/60HZ/1ø, 1/20 HP FAN MOTOR

SG-1 TITUS, AERO-BLADE 48"x20" DOUBLE DEFLECTION SUPPLY AIR GRILL, MODEL 122RL WITH INDIVIDUALLY ADJUSTABLE BLADES, 2" BLADE SPACING, AND BAKED ENAMEL WHITE FINISH.

SG-2 TITUS, AERO-BLADE 36"x16" DOUBLE DEFLECTION SUPPLY AIR GRILL, MODEL 122RL WITH INDIVIDUALLY ADJUSTABLE BLADES, 2" BLADE SPACING, AND BAKED ENAMEL WHITE FINISH.

SEP-1 OIL-WATER SEPARATOR, COALESCING PLATE TYPE, 10 GPM CAPACITY WITH SEDIMENT BUCKET, TOP ACCESS 4" INLET, 4" OUTLET, 2" VENT CONNECTION, FLOW CONTROL REGULATOR, AND CORROSION RESISTANT FINISH, MCTIGHE MODEL # SOLO-10

CO-1 CARBON MONOXIDE MONITOR AND CONTROL PANEL 0-100 PPM FULL RANGE SCALE, DUAL ALARM, LED DISPLAY, AND LINE VOLTAGE AUX. RELAY FOR EF-1 OPERATION W/NEMA 12 ENCLOSURE MSA MODEL 485910. PROVIDE HAND/OFF/AUTO SWITCH FOR THE CO MONITOR.

PV-1 TJERNLUND SIDE WALL MOUNTED POWER VENTER MODEL HST-2, WITH 6" VENT PIPE DIA. AT 189,000 BTU/HR INPUT. PROVIDE ALSO TJERNLUND VENT HOOD MODEL VH-1 WITH SUITABLE TRANSITION FITTINGS IF NECESSARY.

LEGEND

- COLD WATER
- HOT WATER
- VENT PIPING
- WASTE
- PIPE UP
- PIPE DOWN
- TEE UP
- TEE DOWN
- PIPE CAPPED
- UNION
- DIRECTION OF FLOW
- SHUT-OFF VALVE
- FUSIBLE VALVE
- BALL VALVE
- CHECK VALVE
- PRESSURE/TEMPERATURE RELIEF VALVE
- FD — FLOOR DRAIN
- FCO — FLOOR CLEANOUT
- X / XX — DETAIL NUMBER / SHEET LOCATED ON
- XX / X — DIRECTION OF VIEW / SECTION NUMBER / SHEET LOCATED ON

TANK SCHEDULE

SYMBOL	MFGR/MODEL	MEDIUM	FUNCTION	TANK VOLUME TOTAL (GALS)	TANK VOLUME ACCEPTANCE (GALS)	DIMENSIONS	REMARKS
ET-1	AMTROL/THERM-X-TROL ST-5	DOM. WATER	EXPANSION TANK	2.0	–	8"øx12-5/8"H	
PT-1	AMTROL/WX-205	DOM. WATER	PRESSURE TANK	34.0	34.0	22"øx29-1/2"H	PROVIDE PRESSURE SWITCH SIZED FOR 30/50 SYSTEM, WIRE PUMP CONTROL FOR 3/4 HP WELL PUMP
			FOR WELL PUMP				

WATER HEATER SCHEDULE

SYMBOL	MFGR/MODEL	STORAGE CAP. GALS.	RECOVERY @ 100 DEG. F RISE	FUEL TYPE	ELECTRICAL DATA KW/VOLTS/PH	LABEL	REMARKS
WH-1	RHEEM/EGSP-20	20	12	ELEC.	3.0/240/1	–	PROVIDE PRESS/TEMP RELIEF VALVE

FAN SCHEDULE

SYMBOL	MFGR/MODEL	TYPE	SERVICE	CFM	T.S.P IN W.C.	MOTOR DATA HP/VOLT/PH	MOTOR DATA RPM	REMARKS
EF-1	LOREN COOK/18SP10D	WALL	BUILDING	3190	0.125	1/4 /120/1	1050	PROVIDE 1/2" MESH MOTOR GUARD, ADJUSTABLE WALL MOUNTS, OPPOSED BLADE DAMPER AND DIRECT DRIVE MOTOR
EF-2	LOREN COOK/16SP10D	WALL	BUILDING	1380	0.125	1/6 /120/1	850	PROVIDE 1/2" MESH MOTOR GUARD, ADJUSTABLE WALL MOUNTS, OPPOSED BLADE DAMPER AND DIRECT DRIVE MOTOR
EF-3	GREENHECK/SP-6	CEILING	TOILET ROOM	86	0.125	1/20 /120/1	1500	LIGHT SWITCH CONTROLLED WITH MODEL GTD TIME DELAY. PROVIDE WALL CAP.

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	CW	HW	WASTE	VENT	TRAP	BASIS OF DESIGN	BASIC MODEL	COLOR/FINISH	TRIM/REMARKS
P-1	WATER CLOSET-FLOOR MOUNT-HC	1/2"	–	3"	2"	–	AMERICAN STANDARD	2108.500 CADET	WHITE	TANK LINER, OLSENITE #46 OPEN FRONT SEAT WITH COVER
P-2	LAVATORY-WALL MOUNT-HC	1/2"	1/2"	1-1/2"	1-1/4"	1-1/4"	AMERICAN STANDARD	0355.012 LUCERNE	WHITE	DELTA FAUCET 515 WF HDF W/ POP-UP DRAIN, CONCEALED ARM SUPPORTS
P-3	SHOWER STALL-HC	1/2"	1/2"	2"	1-1/2"	2"	FIAT	S115 COMMANDER	WHITE	PROVIDE MODEL 160AA PRESSURE BALANCED MIXING VALVE W/STOPS,
										IN-LINE VACUUM BREAKER W/WALL AND HAND HELD SHOWER HEAD WITH
										69" FLEXIBLE STAINLESS STEEL HOSE, FOLDING SEAT, STAINLESS
										STEEL 1" CURTAIN ROD, CURTAIN, AND GRAB BARS
P-4	UTILITY SINK	1/2"	1/2"	2"	1-1/2"	1-1/4"	FIAT	L-1	WHITE	WALL HUNG, SINGLE COMPARTMENT, MOLDED STONE, MODEL A-1 FAUCET
FD-1	FLOOR DRAIN	–	–	2"	1-1/2"	2"	J.R.SMITH	2005-A	NICKEL BRONZE	ROUND TOP
HB-1	HOSE BIBB	1/2"	1/2"	–	–	–	CHICAGO FAUCET	835	CHROME PLATED	VACUUM BREAKER, RIGID SPOUT AND PAIL HOOK

STATE OF ALASKA 49TH
Thomas W. Sourbeck
NE-6248
PROFESSIONAL ENGINEER

CONSULTANTS
801 WEST FIREWEED LANE, ANCHORAGE, ALASKA 99503
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Revisions:

ADDITION TO KNIK PUBLIC SAFETY BUILDING
MATANUSKA-SUSITNA BOROUGH
PALMER, AK

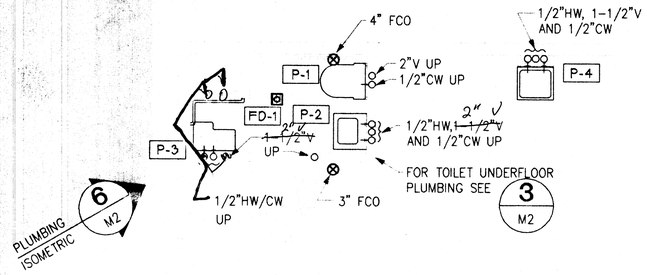
Mechanical/Asbuilt

DRAWN	SN
CHECKED	TWS
DATE	09/16/94

MECHANICAL PLAN, SCHEDULE AND LEGEND

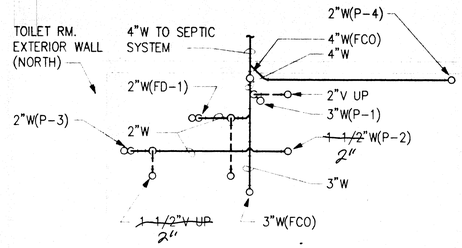
M1

74-01 P6



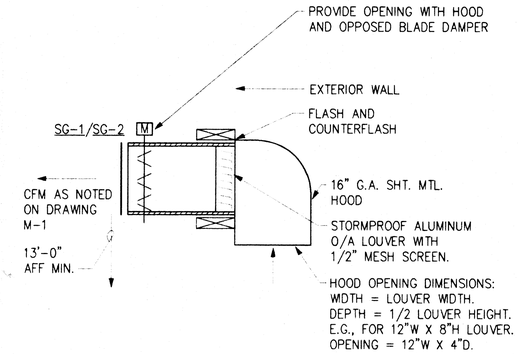
1 TOILET ROOM PLUMBING PLAN

M2 SCALE: 1/4" = 1'-0"



3 TOILET UNDERFLOOR PLUMBING

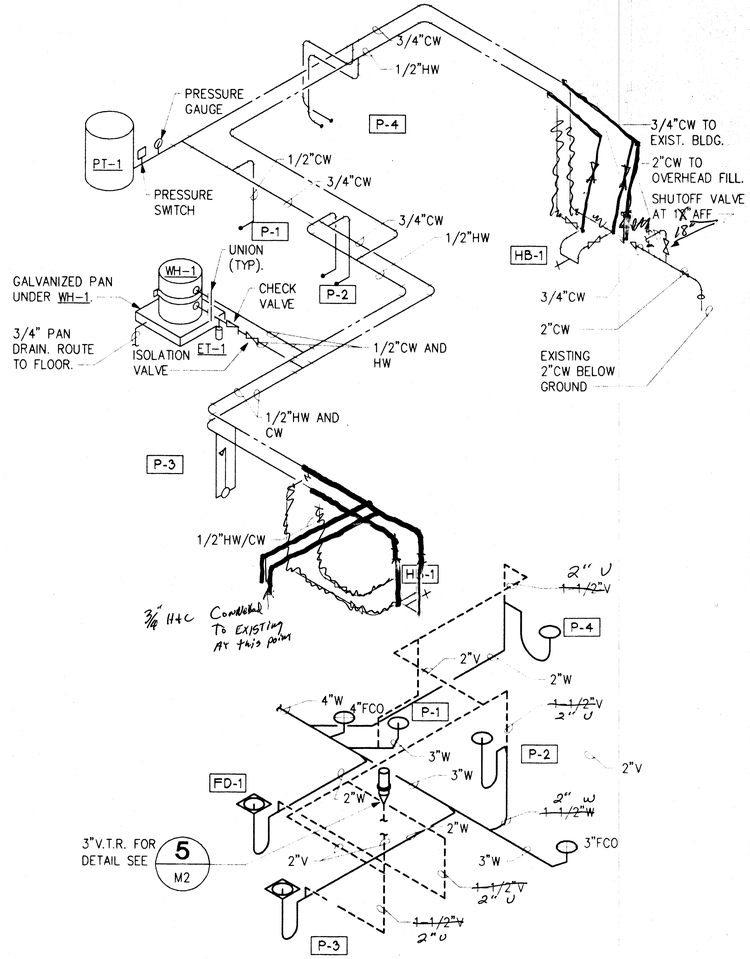
M2 SCALE: 1/4" = 1'-0"



Done As Per Drawing

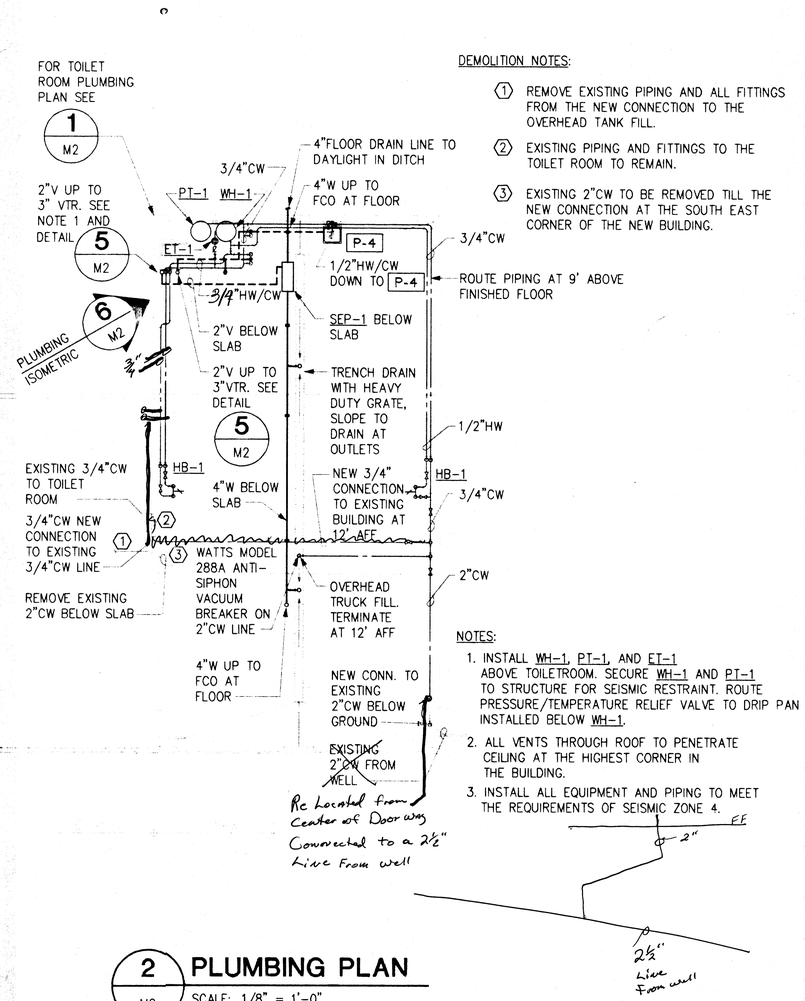
4 OUTSIDE AIR INTAKE DETAIL

M2 SCALE: NONE



6 PLUMBING ISOMETRIC

M2 SCALE: NONE



DEMOLITION NOTES:

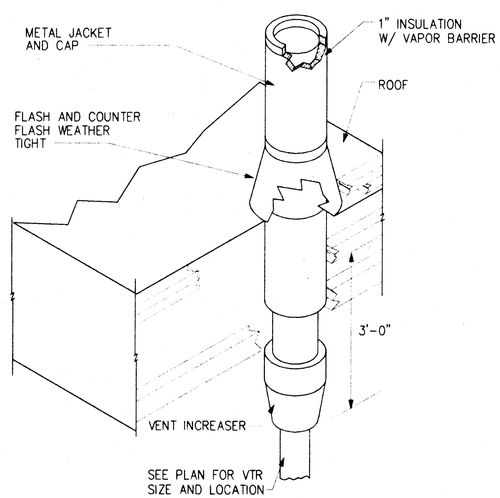
1. REMOVE EXISTING PIPING AND ALL FITTINGS FROM THE NEW CONNECTION TO THE OVERHEAD TANK FILL.
2. EXISTING PIPING AND FITTINGS TO THE TOILET ROOM TO REMAIN.
3. EXISTING 2"CW TO BE REMOVED TILL THE NEW CONNECTION AT THE SOUTH EAST CORNER OF THE NEW BUILDING.

NOTES:

1. INSTALL WH-1, PT-1, AND ET-1 ABOVE TOILETROOM. SECURE WH-1 AND PT-1 TO STRUCTURE FOR SEISMIC RESTRAINT. ROUTE PRESSURE/TEMPERATURE RELIEF VALVE TO DRIP PAN INSTALLED BELOW WH-1.
2. ALL VENTS THROUGH ROOF TO PENETRATE CEILING AT THE HIGHEST CORNER IN THE BUILDING.
3. INSTALL ALL EQUIPMENT AND PIPING TO MEET THE REQUIREMENTS OF SEISMIC ZONE 4.

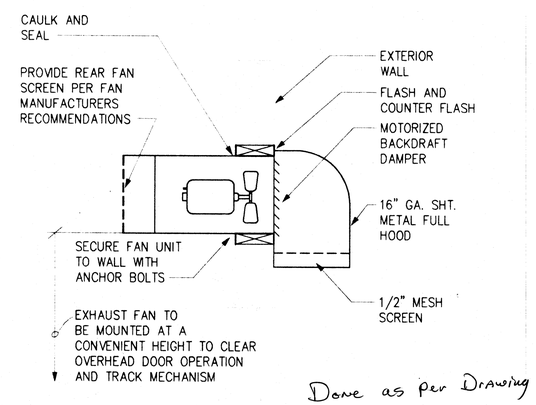
2 PLUMBING PLAN

M2 SCALE: 1/8" = 1'-0"



5 VENT THRU ROOF DETAIL

M2 SCALE: NONE



Done as per Drawing

7 EXHAUST FAN EF-1 DETAIL

M2 SCALE: NONE

CONSULTANTS
801 WEST FIREWEED LANE - ANCHORAGE, ALASKA 99503
(907) 277-3800 FAX 272-7531

Revisions:

ADDITION TO KNIK PUBLIC SAFETY BUILDING
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DRAWN	SN
CHECKED	TWS
DATE	09/16/94

PLUMBING PLAN AND DETAILS

M2

Mechanical As-built

SYMBOLS

SYMBOL NOTES
1. SYMBOLS DO NOT NECESSARILY APPEAR ON PLANS IN SAME SIZE AND PROPORTION AS SHOWN HERE.
2. PLANS DO NOT NECESSARILY USE ALL OF THE SYMBOLS SHOWN HERE.

(1)	REFER TO NOTE INDICATED
WP	WEATHERPROOF
U.O.N	UNLESS OTHERWISE NOTED
PH.	PHASE
NL	NIGHTLIGHT CIRCUIT FIXTURE
M.L.O.	MAIN LUGS ONLY.
GRC	GALVANIZED RIGID STEEL CONDUIT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
PVC	POLYVINYLCHLORIDE
	BRANCH CIRCUIT PANELS, FLUSH & SURFACE
T	TERMINAL CABINET, SUBSCRIPT "T" TELEPHONE; "S" SIGNAL
	CIRCUIT – CONCEALED IN WALL OR CEILING
	CIRCUIT – EXPOSED
	CIRCUIT – CONCEALED IN FLOOR OR UNDERGROUND
	FLEXIBLE CONDUIT
	HOME RUN TO PANEL OR CABINET
	MOTOR CONTROLLER
	DISCONNECT SWITCH – NON-FUSIBLE
	DISCONNECT SWITCH – FUSED
	COMBINATION MOTOR CONTROLLER/DISCONNECT SWITCH
	CONDUIT – UP
	CONDUIT – DOWN
	CONDUIT – CAPPED
	LIGHTING FIXTURES, CEILING
	LIGHTING FIXTURE, WALL-MOUNTED
	WALL MOUNTED FLUORESCENT FIXTURE
	CEILING MOUNTED FLUORESCENT FIXTURE
	BATTERY-POWERED EMERGENCY LIGHTING UNIT
	EXIT SIGN, WITH ARROWS IF INDICATED
	OUTDOOR AREA LIGHT
	TELEPHONE OUTLET, WALL-MOUNTED
	JUNCTION BOX
	T-STAT
	DUPLEX RECEPTACLE, ABOVE FLOOR 42"
	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
	ALARM BELL
	SPECIAL PURPOSE RECEPTACLE – NEMA CONFIGURATION NOTED
	GARAGE DOOR CONTROLS
S	SINGLE POLE SWITCH
S_2	TWO-POLE SWITCH
S_3	THREE-WAY SWITCH
S_4	FOUR-WAY SWITCH
S_P	PILOT LIGHT SWITCH
S_T	THERMAL OVERLOAD SWITCH (MANUAL STARTER)
	SINGLE PHASE MOTOR CONNECTION W/HP INDICATED

NUMBER OF CONDUCTORS, IF OTHER THAN 2

#8 — 4 CONDUCTORS, LARGE DASH INDICATES NEUTRAL, CURVED DASH INDICATES EQUIPMENT GROUNDING CONDUCTOR. CONDUCTOR SIZE IS INDICATED IF OTHER THAN #12. (SEE SPECIFICATIONS)

3 CONDUCTORS, HOOKED DASH INDICATES ISOLATED GROUND

LIGHTING FIXTURE SCHEDULE

A/70	1	INCL.	WALL MOUNTED H.I.D HPS WALL PACK. WITH ONE 70 WATT HPS LAMP AND 120V., –40° F. RATED BALLASTS. FIXTURES DENOTED WITH "P" INDICATE UNITS WITH FACTORY PROVIDED INTEGRAL PHOTOCELL ON UNIT. 120V.	HUBBEL PVL-0070S-118 OR APPROVED EQUAL
B/100	2	F032 41K	CEILING SURFACE MOUNTED INDUSTRAL FLUORESCENT FIXTURE, WITH 10% UPLIGHT AND POLYESTER PAINT REFLECTORS. 120V.	DAY-BRITE FLB-11240-4U OR APPROVED EQUAL
C/100	2	F40LW /RS /WM	SURFACE MOUNTED FLUORESCENT WALL BRACKET, WITH WHITE OPAL LENS. 120V.	DAY-BRITE WB249-WO OR APPROVED EQUAL
XL/25	2	INCL.	WALL MOUNT EMERGENCY LIGHTING WALL PACK. INJECTION MOLDED THERMOPLASTIC CONSTRUCTION. OFF-WHITE FINISH. 2 ADJUSTABLE LAMPS. MAINTENANCE FREE BATTERY, TEST SWITCH, CHARGE MONITOR LIGHT. MOUNT 7' ABOVE FINISHED FLOOR 120V.	DUAL-LITE EZ-2 OR APPROVED EQUAL
X1/5	–	INCL.	SELF-POWERED EXIT SIGN WITH RED LED'S, BRUSHED ALUMINUM FACE, BLACK BODY. UNIVERSAL ARROWS, SINGLE FACE, BACK MOUNT. DIRECTION AND NUMBER OF ARROWS AS SHOWN ON DRAWINGS. VANDAL RESISTANT. 120V.	EMERGI-LITE LEDPXN-1-R-BM OR APPROVED EQUAL

PANEL B

120/240 VOLTS 1 Ø 3 WIRE 200 AMP [CB] MLO 10000 A.I.C. [FL] SURF

CIRCUIT DESCRIPTION	KVA	AMP	CKT	ø	CKT	AMP	KVA	CIRCUIT DESCRIPTION
BAY LIGHTING & EXTERIOR	0.75	20	1	A	2	20	0.48	BATHROOM
BAY LIGHTING & EXTERIOR	0.59	20	3	B	4	20		~~SPARE~~ UH-1
BAY LIGHTING	0.50	20	5	A	6	20	0.60	~~UH-1~~ SPARE
RECEPT. *	0.90	20	7	B	8	20	1.40	[redacted], RECPT *
RECEPT. *	0.72	20	9	A	10	20	0.90	EF-1 RECEPT *
GARAGE DOOR OPENER	1.13	20	11	B	12	20	0.5	"CO" PANEL
GARAGE DOOR OPENER	1.13	20	13	A	14	20	1.50	~~WATER HEATER WH-1~~ SPARE
SPARE		20	15	B	16	2	1.50	SPARE
SPARE		20	17	A	18	20		SPARE
SPARE		20	19	B	20	20		SPARE
SPACE		20	21	A	22	20		SPACE
SPACE		20	23	B	24	20		SPACE
SPACE		20	25	A	26	20		SPACE
SPACE		20	27	B	28	20		SPACE
SPACE		20	29	A	30	20		SPACE
SPACE		20	31	B	32	20		SPACE
SPACE		20	33	A	34	20		SPACE
SPACE		20	35	B	36	20		SPACE
SPACE		20	37	A	38	20		SPACE
SPACE		20	39	B	40	20		SPACE
SPACE		20	41	A	42	20		SPACE

CONNECTED LOAD 12.6 KVA

NEC LOAD 12.6 KVA 52.5 AMPS

REMARKS * GFCI BREAKER

NOTES:

(1) MOUNT STARTER AND DISCONNECT ON WALL NEAR UH-1. SO MOTOR CAN BE SEEN FROM STARTER/DISCONNECT LOCATION.

(2) CO MONITOR SHALL OPEN O/A AND E/A DAMPER AND ACTIVATE EF-1 WHENEVER INTERIOR CO CONCENTRATIONS LEVELS ARE ABOVE 50 PPM.

(3) SURFACE MOUNTED JUNCTION BOX FOR 1/2 HP., 120V, 1ø, GARAGE DOOR OPENER

(4) COORDINATE MOUNTING HEIGHT OF WALL MOUNTED H.I.D. FIXTURE WITH ARCHITECTURAL EXTERIOR BUILDING ELEVATIONS. FIXTURE WITH PHOTOCELL SHALL CONTROL "DOWN-STREAM" FIXTURES.

(5) 3/4" CONDUIT TO EXISTING TELEPHONE PANEL "T-1"

(6) JUNCTION BOX ON TOP OF BATHROOM FOR CONNECTION OF WH-1.

(7) SIDE WALL VENTER, MOUNT STARTER/DISCONNECT ON WALL, NEAR STARTER FOR UH-1.

(8) REMOVE EXISTING HEATERS. DISCONNECT AND ABANDON EXISTING WIRING.

(9) PLACE NEW 20 AMP 1 POLE BREAKER IN PANEL "A". CIRCUIT TO NEW UNIT HEATER.

(10) PLACE NEW 125 AMP 2 POLE BREAKER TO FEED NEW PANEL "B". UPDATE PANEL DIRECTORY.

(11) EXISTING GARAGE DOOR OPENERS TO BE REMOVED. DISCONNECT AND ABANDON EXISTING WIRING.

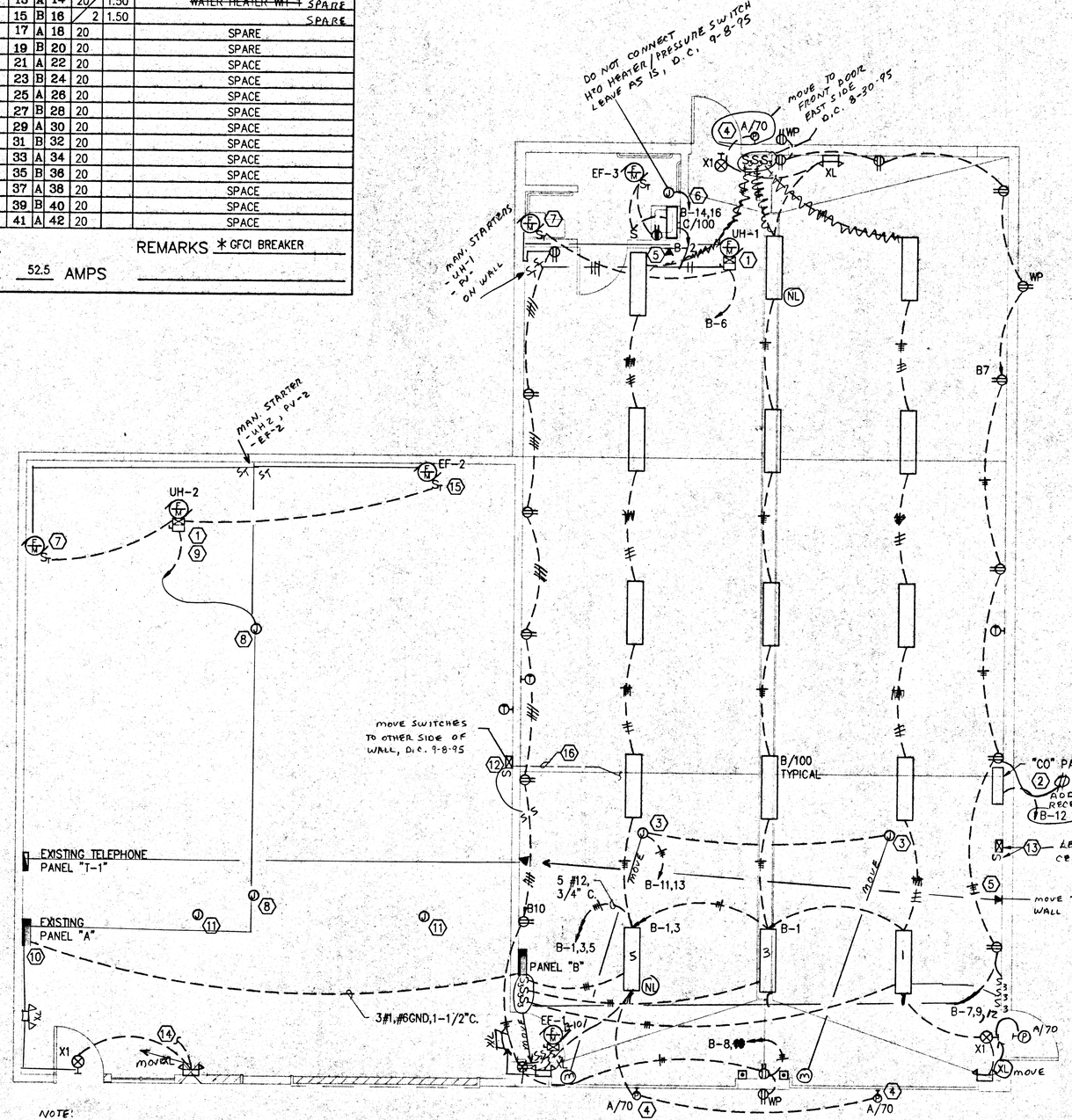
(12) EXISTING STARTER AND SWITCH FOR WELL PUMP TO BE RELOCATED.

(13) NEW LOCATION FOR WELL PUMP STARTER AND SWITCH. EXTEND FEEDER FROM PANEL A TO NEW LOCATION. REROUTE / EXTEND CONDUCTORS FROM EXISTING WELL PUMP TO NEW LOCATION OF STARTER AND SWITCH.

(14) CONNECT TO EXISTING CIRCUIT A-1 (LIGHTING CIRCUIT).

(15) MOUNT STARTER/DISCONNECT ON WALL, NEAR STARTER FOR UH-1.

(16) EXISTING BURIED CABLE TO WELL PUMP. MAINTAIN PUMP IN SERVICE DURING EXCAVATION FOR ADDITION.
- ALL UNDERGROUND WIRING WAS PERFORMED BY OTHERS
= BEFORE NEI WAS INVOLVED WITH THIS CONTRACT.



NOTE:
- ALL CONTROL CONDUIT & WIRING BY OTHERS
= NEI POWER TO LOCATION SHOWN ONLY
- NEW TYPE B FIXTURES ARE T-8 LAMPS, BALLASTS

(1) ELECTRICAL PLAN
E1.1 SCALE: 1/4" = 1'-0"

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Revisions:

ADDITION TO KNIK PUBLIC SAFETY BUILDING
MATANUSKA-SUSITNA BOROUGH
PALMER, AK

ELECTRICAL AS-BUILTS

DRAWN	MN
CHECKED	RNH
DATE	09/16/94

ELECTRICAL PLAN
AS-BUILT
NEI
10-17-95

E1

7A-11 P. 8