LAUNDRY FACILITY
FOR THE
VILLAGE OF KONGIGANAK

Kongiganak, Alaska

OWNER:
VILLAGE OF KONGIGANAK
KONGIGANAK TRADITIONAL COUNCIL
P.O. BOX 5069
KONGIGANAK, ALASKA 99559
PH: (907) 557-5225
FX: (907) 557-5224

STRUCTURAL ENGINEERING:
FRANKLIN + ASSOCIATES
225 EAST FIREWEED LANE, SUITE 202
ANCHORAGE, ALASKA
PH: (907) 277-1631
FX: (907) 277-2939

ARCHITECT:
KUMIN ASSOCIATES, INC.
808 E. STREET, SUITE 200
ANCHORAGE, ALASKA 99501
PH: (907) 272-8833
FX: (907) 272-7733

MECHANICAL + ELECTRICAL ENGINEERING:
EDC, INC.
213 W. FIREWEED LANE
ANCHORAGE, ALASKA
PH: (907) 276-7933
FX: (907) 276-4763

PROJECT MANAGEMENT:
SUMMIT CONSULTING SERVICES
HC 72 BOX 850
TOK, ALASKA 99780
PH: (907) 291-2339
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CIVIL ENGINEERING:
MONTGOMERY WATSON
4100 SPENARD ROAD
ANCHORAGE, ALASKA
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LOCATION MAP

ABBREVIATIONS

THESE ABBREVIATIONS MAY NOT ALL BE USED IN THESE CONSTRUCTION DOCUMENTS. CIVIL, STRUCTURAL, MECHANICAL, & ELECTRICAL ABBREVIATIONS ARE NOT INCLUDED HERE.

¢, &	and
L	angle
@	at
℄	centerline
Ø	diameter
d	penny
#	pound or number
AB	anchor bolt
ACT	acoustical tile
ADD	additive
ADD'L	additional
ADH	adhesive
ADJ	adjustable
AFF	above finished floor
AIB	air infiltration barrier
AP	access panel
APPROX	approximate
ARCH	architectural
BD	board
BLDG	building
BLK	block or blocking
BM	beam
BO	bottom of
CAB	cabinet
CB	catch basin
CEM	cement
CER	ceramic
CLG	ceiling
CLO	closet
CMT	ceramic mosaic tile
CMU	concrete masonry unit
COL	column
CONST	construction
CONT	continuous
CORR	corridor
CPT	carpet
CT	ceramic tile
D	dryer
DEMO	demolition
DET	detail
DF	drinking fountain
DIA	diameter
DIM	dimension
DISP	dispenser
DN	down
DS	downspout
DWG	drawing
EA	each
EL	elevation
ELEC	electrical
EP	elec panel board
EQ	equal
EQUIP	equipment
EXT	exterior
EXIST	existing
EXST'G	existing
FA	fire alarm
FCO	floor clean out
FCTY	factory finish
FD	floor drain
FDN	foundation
FE	fire extinguisher
FEC	fire extinguisher cabinet
FHC	fire hose cabinet
FIN	finish
FL	floor
FOC	face of concrete
FOF	face of finish
FOS	face of stud
FRP	fiberglass reinforced panel
FT	feet
FOT	fuel oil tank
FURN	furnace
FURR	furring
GA	gauge or gage
GALV	galvanized
GB	grab bar
GL	glass or glazing
GLBM	glu-lam beam
GWB	gypsum wall board
HDWE	hardware
HM	hollow metal
HORIZ	horizontal
HT	height
HVAC	heating, ventilating, and air conditioning
HWH	hot water heater
INSUL	insulation
INT	interior
JAN	janitor
JT	joint
LAV	lavatory
MAX	maximum
MECH	mechanical
MET	metal
MFD	manufactured
MFR	manufacturer
MH	manhole
MIN	minimum, minute
MISC	miscellaneous
MR	mop rack
MTD	mounted
NFS	non-frost susceptible
NIC	not in contract
NO	number
NOM	nominal
NTS	not to scale
OC	on center
OD	overflow drain
OFF	office
O/O	outside to outside
OPH	opposite hand
OSB	oriented strand board
PL	plate
P. LAM	plastic laminate
PLYWD	plywood
PNT	paint
PT	pressure treated
PTD	paper towel dispenser
PTD/R	paper towel dispenser / receptacle
PTR	paper towel receptacle
PVC	polyvinyl chloride
QT	quarry tile
RAD	radius
RD	roof drain
REQ	required
REQM'TS	requirements
RM	room
RO	rough opening
R&S	rod and shelf
SD	soap dispenser
SECT	section
SHR	shower
SIM	similar
SND	sanitary napkin dispenser
SNR	sanitary napkin receptacle
SPEC	specification
SQ	square
STOR	storage
STRL	structural
STRUCT	structural
SUSP	suspended
S.V.	sheet vinyl
TB	towel bar
TEL	telephone
T&G	tongue and groove
T.O.	top of
TTD	toilet tissue dispenser
TYP	typical
U.N.O.	unless noted otherwise
U.O.N.	unless otherwise noted
VAR	varies
VB	vapor barrier
VCT	vinyl composition tile
VERT	vertical
VIF	verification in field
VTR	vent through roof
VWC	vinyl wall covering
W	washer
W/	with
WC	water closet
WD	wood
WR	water resistant
WSCT	wainscot
WWF	welded wire fabric

SYMBOLS

- DOOR NUMBER
- REVISION
- MATCH LINE
- WORK POINT, CONTROL POINT OR DATUM POINT
- BUILDING SECTION
- WALL SECTION
- DETAIL
- ELEVATION
- WALL TYPE DESIGNATION
- WINDOW TYPE DESIGNATION

INDEX TO DRAWINGS

PROJECT GENERAL NOTES

A. No work shall begin until the building permit has been obtained.

B. All work shall comply with the 1997 Uniform Building Code and local ammendments. All work shall be in accordance with the governing building code and regulations of local authorities having jurisdiction. Contractor shall be responsible for approval of all installed materials. Should a discrepancy occur between a specified material and a code requirement, the Contractor must notify the owner's representative as soon as the discrepancy becomes apparent.

C. All work shall be done in accordance with the 1997 Uniform Fire Code, State and local ammendments.

D. Portable fire extinguishers shall be placed in accordance with NFPA standards for ongoing construction.

E. Guarantees: Workmanship and materials shall be guaranteed for a period of one year from the date of final acceptance, unless specified otherwise for a longer period of time on specific items. Contractor shall be responsible for replacing or repairing defective work at no cost to the Owner.

F. Drawings are not to be scaled. Any discrepancies in the dimensioned drawings shall be called immediately to the attention of the Owner's Representative. Discrepancies shall be corrected before the contractor proceeds with that or affected portions of the scope of work.

G. The Contractor shall familiarize himself with the existing conditions and the construction documents and report any conflicts to the Architect.

H. Construction areas shall be kept clear of debris as required for safety.

I. For locations of exit signs, smoke detectors, diffusers etc. Refer to Electrical and Mechanical drawings.

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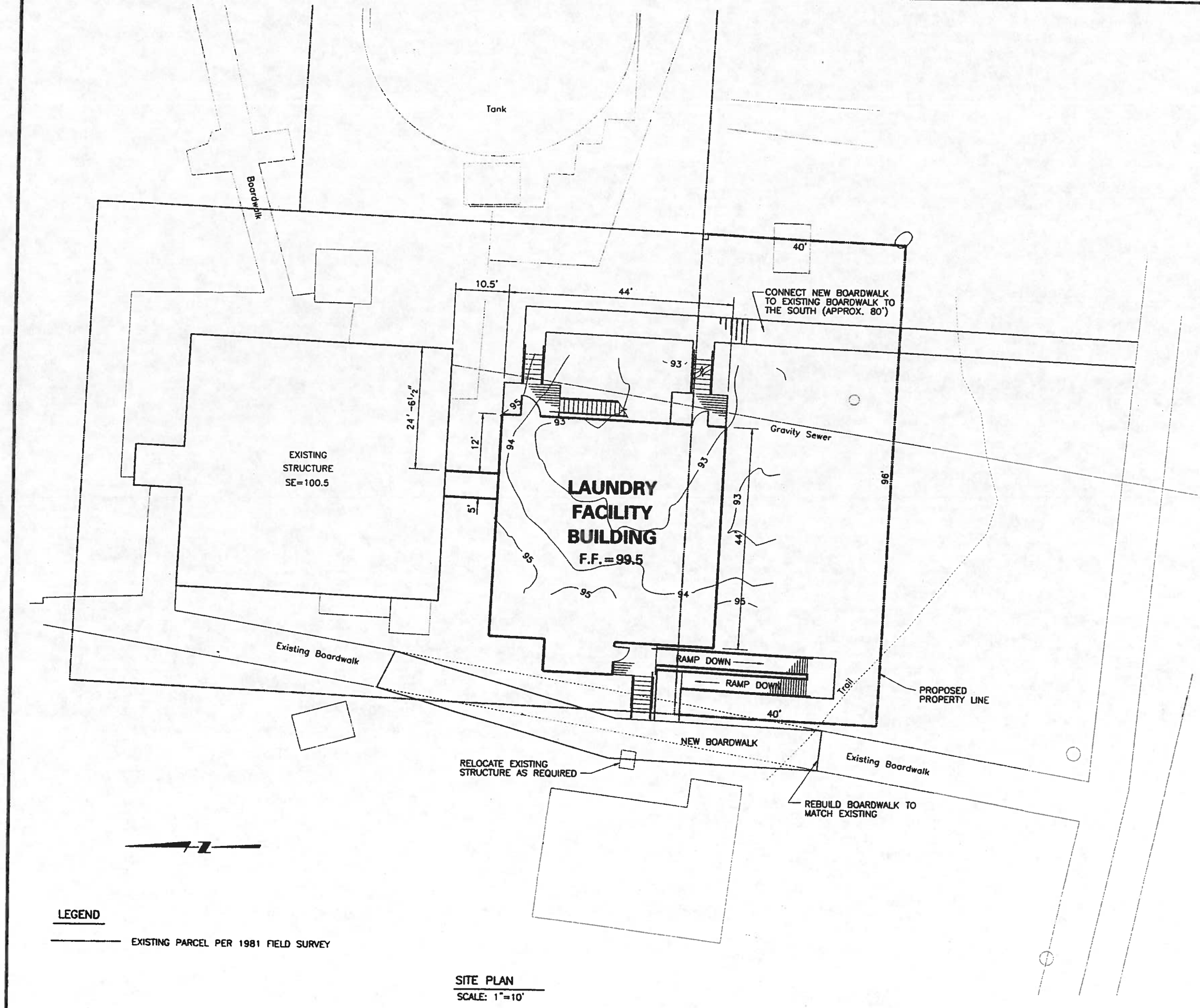
VILLAGE SAFE WATER

VILLAGE OF KONGIGANAK
LAUNDRY FACILITY
KONGIGANAK, ALASKA

drawn	UMI
checked	UPK
date	2/25/00
revisions	
job no.	9817
dwg. title	LOCATION MAP, GENERAL NOTES, ABBREVIATIONS
sheet no.	T1



LEGEND

EXISTING PARCEL PER 1981 FIELD SURVEY

SITE PLAN

SCALE: 1"=10'

STATE OF ALASKA
JOSEPH L. SMITH
REGISTERED PROFESSIONAL ENGINEER

kumin associates, inc.
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800 E. street suite 200 · anchorage, alaska 99501 · (907)272-8633

MONTGOMERY WATSON

VILLAGE SAFE WATER

VILLAGE OF KONGIGANAK LAUNDRY FACILITY KONGIGANAK, ALASKA

drawn	LAG
checked	JLS
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job no.	
dwg. title	SITE PLAN
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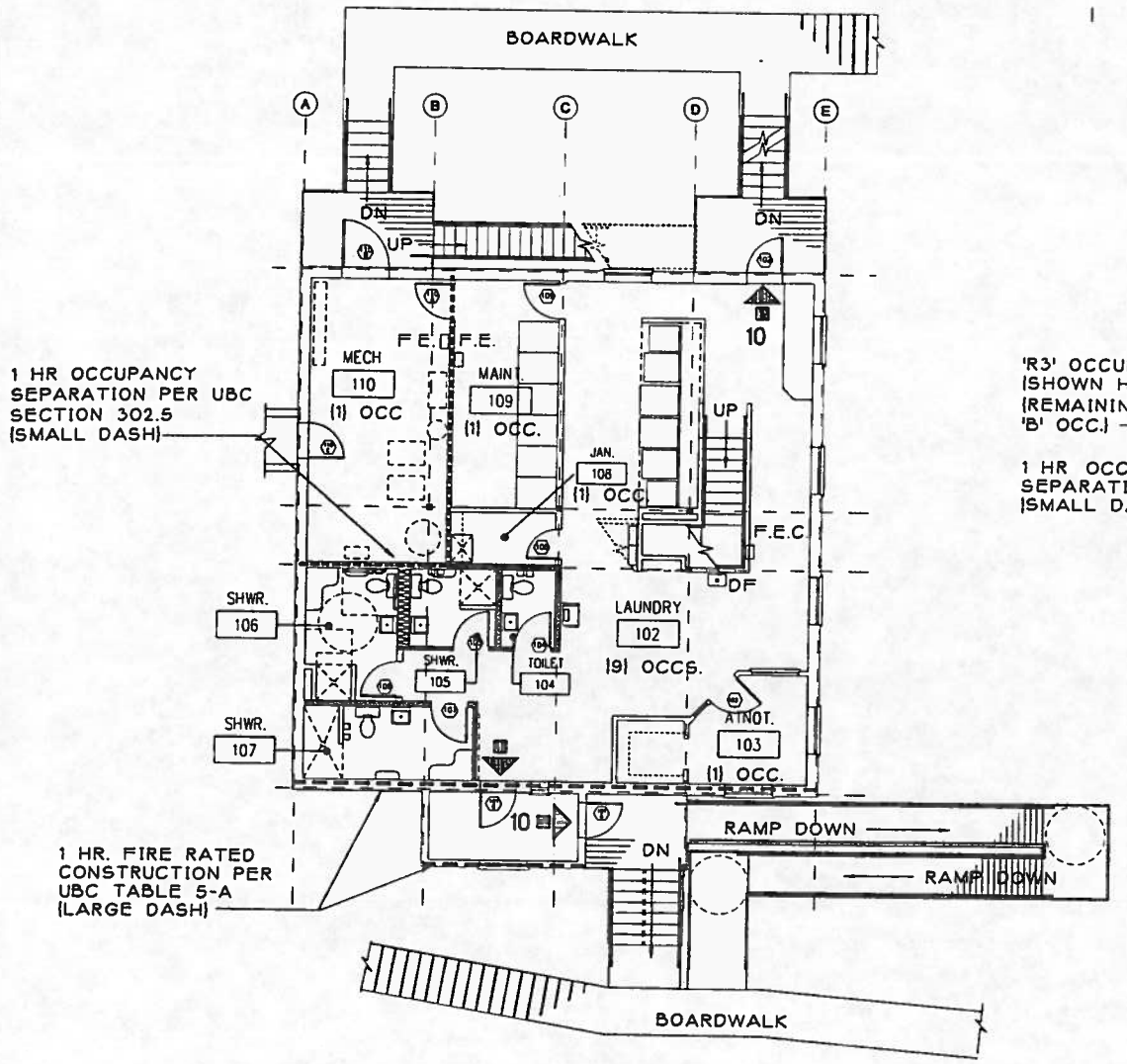
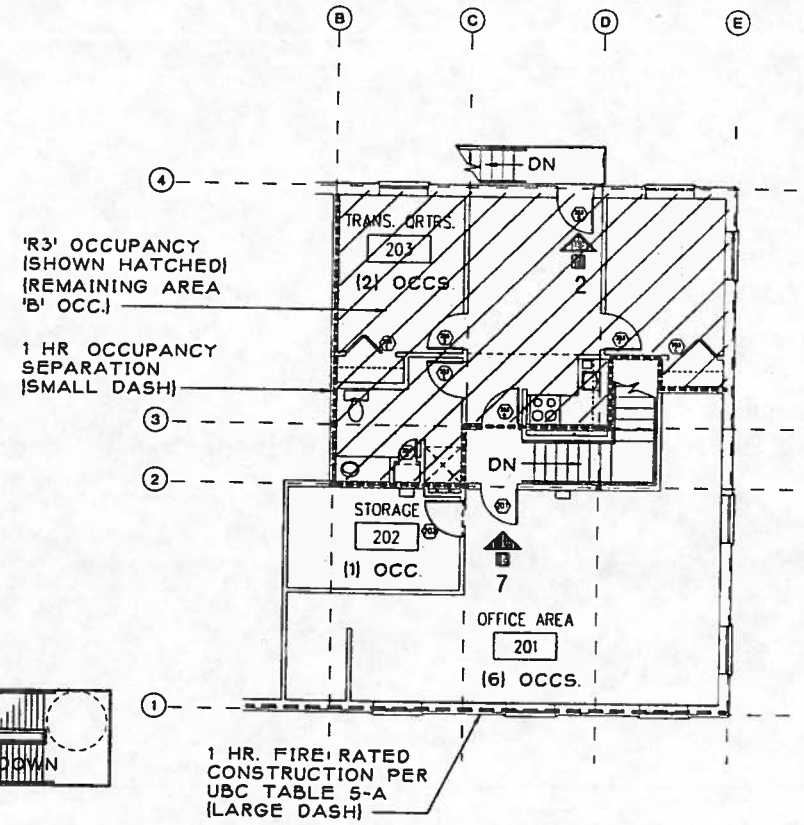
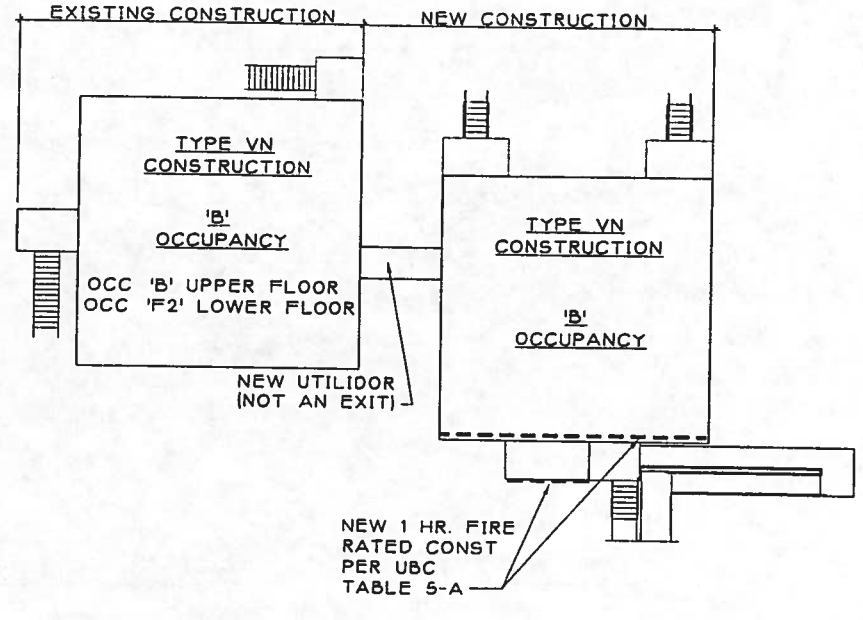


1 FIRST FLOOR PLAN
1/8" - 1' - 0" (NEW CONSTRUCTION)



2 SECOND FLOOR PLAN
1/8" - 1' - 0" (NEW CONSTRUCTION)



3 CODE ANALYSIS DIAGRAM
1/16" - 1' - 0" (NEW & EXISTING CONSTRUCTION)

CODE DATA (BASED ON 1997 UNIFORM BUILDING CODE)

PROJECT DESCRIPTION: --- PUBLIC LAUNDRY FACILITY & TRANSIENT QUARTERS

OCCUPANCY TYPE: --- B, F-2, R-3 (FOR EXTENT SEE 2/A1)

CONSTRUCTION TYPE: --- TYPE V-N

NEW BUILDING AREA:
--- B 2,622 S.F
--- R-3 632 S.F.
TOTAL 3,254 S.F.

EXISTING BUILDING AREA:
--- B 2,115 S.F
--- F-2 2,115 S.F.
TOTAL 4,230 S.F

ALLOWABLE SQ. FOOTAGE:

B	F-2	R-3
8,000	12,000	(UNLIMITED)

MIXED OCCUPANCY RATIO

(B) $\frac{4,737}{8,000}$ + (R3) $\frac{632}{\text{(UNLIMITED)}}$ + (F2) $\frac{2,115}{12,000}$ = 76 <1 O.K

OCCUPANCY SEPARATION REQUIRED?: (YES) / NO
PER UBC TABLE 3B
1 HR. SEPARATION REQ'D BETWEEN B & R3

EXTERIOR WALL & OPENING REQUIREMENTS?: (YES) / NO
PER UBC TABLE 5A (SEE FLOOR PLANS THIS SHEET)

OTHER FIRE RESISTIVE REQUIREMENTS?: (YES) / NO
FLOOR/CEILING SYSTEM SHALL BE 1 HR. FIRE RESISTIVE CONSTRUCTION PER UBC TABLE 3B

MECHANICAL ROOM #110 SHALL BE ENCLOSED BY 1 HR FIRE RESISTIVE CONSTRUCTION PER UBC 302.5

LOCATION OF PROPERTY LINES
N SIDE 21'-6" TO CENTERLINE OF R.O.W
W SIDE: 10'-6" TO CENTERLINE OF R.O.W
S SIDE 32' 4"
E SIDE: 25' 6"

OCCUPANCY CALCULATIONS PER UBC TABLE 10-A

ROOM	S.F	OCCUPANT LOAD FACTOR	TOTAL OCCUPANTS	REQ'D EXITS	ACTUAL EXITS
ENTRY 101	62	---	---	1	1
LAUNDRY 102	891	100	9	1	2
ATTENDANT 103	126	100	1	1	1
TOILET 104	30	---	---	1	1
SHOWER 105	47	---	---	1	1
H.C. SHOWER 106	91	---		1	1
FAMILY SHOWER 107	96	---			1
JANITOR 108	39	300			1
MAINTENANCE 109	174	300			
MECHANICAL 110	294	300			
OFFICE AREA 201	578	100	6	*	*
STORAGE 202	22	300		*	
TRANSIENT QUARTERS 203	632	---	2	*	*
TOTALS			22		3

* INDICATES: (1) EXIT FROM THESE SPACES ALLOWED PER UBC 1004.2.3.2 EXCEPTIONS # 1 & #2

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VILLAGE OF KONGIGANAK
LAUNDRY FACILITY
KONGIGANAK, ALASKA

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EXIST'G PLANS
CODE DATA

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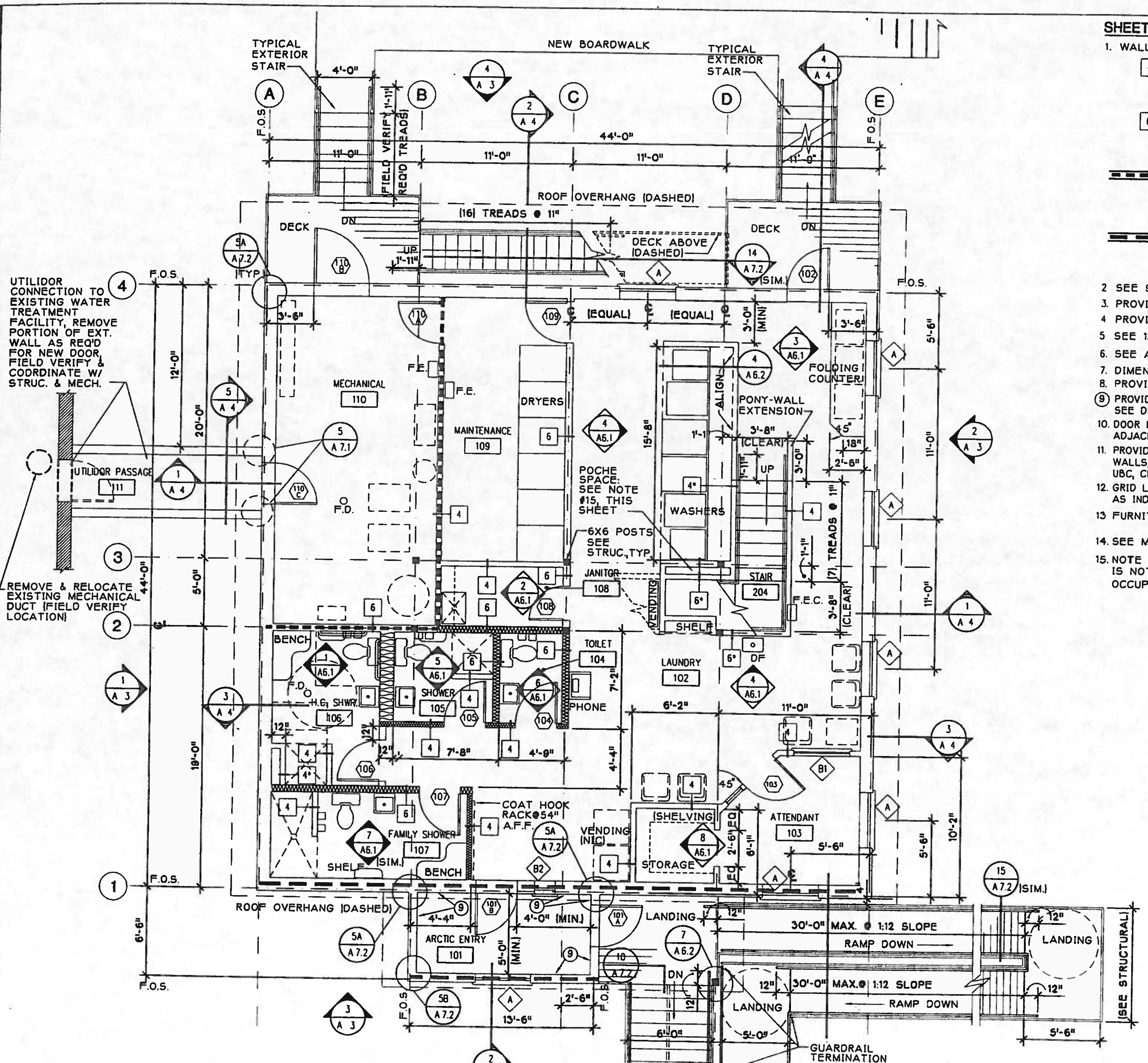
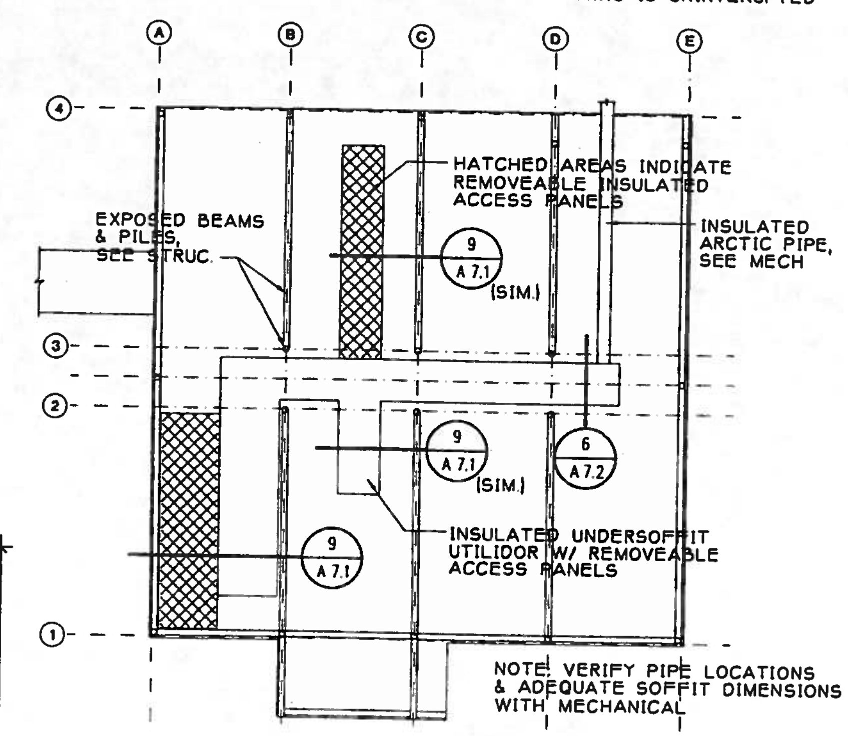
A1



1 FIRST FLOOR PLAN
1/4" - 1' - 0"

SHEET NOTES

1. WALL TYPES:
   - [4] INDICATES 2x4 STUD WALL @ 16" O.C. W/ 5/8" WATER RESISTANT GWB BOTH SIDES. FINISH AS SCHEDULED.
     * INDICATES DELETE GWB @ INSIDE OF POCHE SPACES.
   - [6] INDICATES 2x6 STUD WALL @ 16" O.C. W/ 5/8" WATER RESISTANT GWB BOTH SIDES. FINISH AS SCHEDULED.
     * INDICATES DELETE GWB @ INSIDE OF POCHE SPACES.
   - INDICATES 1 HR RATED OCCUPANCY SEPARATION. W/ 5/8" GWB BOTH SIDES PER UL FIRE TEST #R1319-4, DESIGN #U305, WALL TO EXTEND TO STRUCTURE ABOVE WITH FIRESTOPPING SYSTEM TESTED BY A RECOGNIZED AGENCY. STUD SIZE AS INDICATED. FINISH AS SCHEDULED.
   - INDICATES 1 HR FIRE RESISTIVE CONSTRUCTION CONSISTING OF METAL CLADDING ON PLYWD SHEATHING ON 5/8" TYPE 'X' GWB ON 2x10 WOOD STUDS ON 5/8" WATER RESISTANT BACKER BOARD FINISH AS SCHEDULED. SEE WALL TYPES FOR MEMBRANE LOCATIONS
2. SEE 9/A7.2 FOR WINDOW & RELITE TYPES.
3. PROVIDE BLOCKING FOR ALL WALL MOUNTED ITEMS.
4. PROVIDE P.T. 2x WOOD SILLS AT ALL WALL & PARTITION LOCATIONS.
5. SEE 13/A6.1 FOR TYPICAL TOILET ROOM FIXTURE MOUNTING HEIGHTS.
6. SEE A6.1 & A6.2 FOR INTERIOR ELEVATIONS AND DETAILS.
7. DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTED.
8. PROVIDE SOUND ATTENUATION BATTS WHERE INDICATED.
9. PROVIDE PLYWOOD SHEATHING UNDER FINISHED GWB, THIS SIDE OF WALL. SEE DETAIL 5A/A7.2.
10. DOOR FRAMES ARE TYPICALLY 4" FROM FACE OF ADJACENT WALL.
11. PROVIDE FIRE BLOCKING AND DRAFT STOPS AT ALL WALLS, CEILINGS, AND CONCEALED SPACES PER 1997 UBC, CHAPTER 7.
12. GRID LINES ARE TO CENTERLINE OR FACE OF STUD, AS INDICATED.
13. FURNITURE INDICATED AS [ ] IS NOT IN CONTRACT (TYPICAL).
14. SEE MECHANICAL DRAWINGS FOR MECHANICAL ROOM #110 EQUIPMENT LOCATIONS
15. NOTE TO CONTRACTOR: THE POCHE SPACE LOCATED AT GRIDS 3 & D, IS NOT A CONTINUOUS FLOOR TO FLOOR SPACE. THE 1 HR. FLOOR/CEILING OCCUPANCY SEPARATION ASSEMBLY AND STRUCTURAL FRAMING IS UNINTERUPTED



2 UNDERFLOOR SOFFIT PLAN
1/8" - 1' - 0"

1/8" - 1'-0" 0 1 3 6 10 20 30 / 2 4 8 15 25 40

1/4" - 1'-0" 0 1 3 6 10 20 / 2 4 8 15

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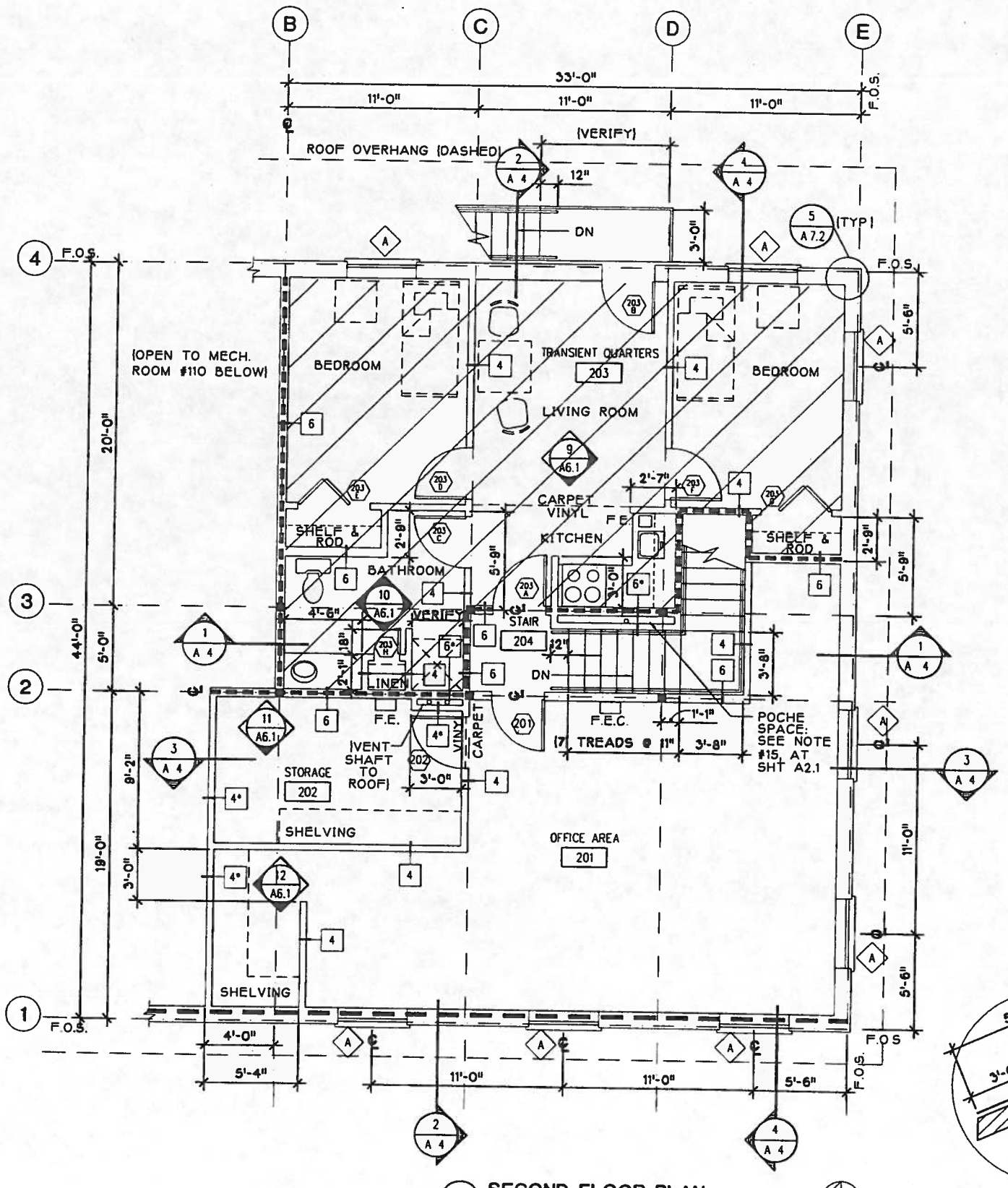
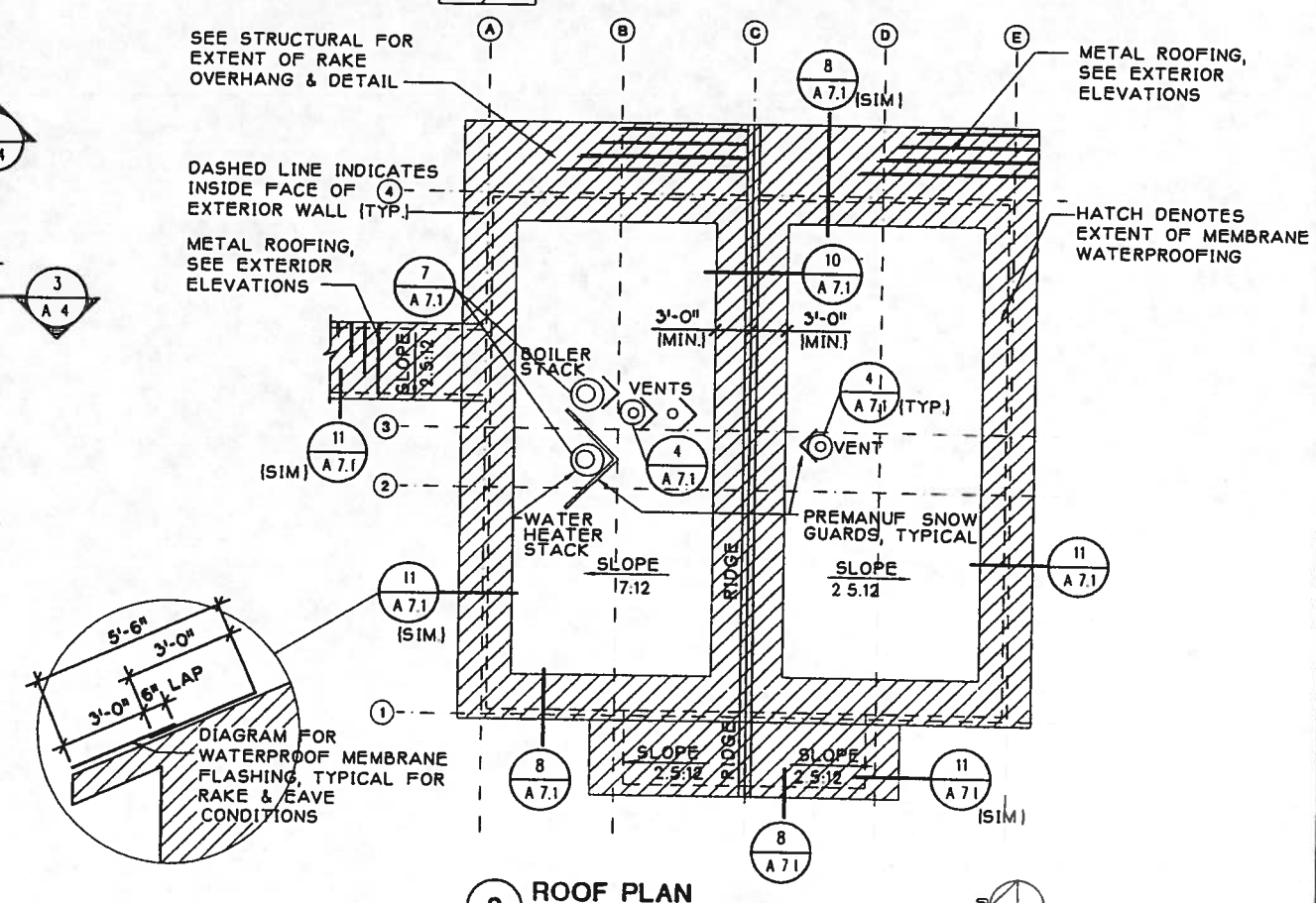


1 SECOND FLOOR PLAN
1/4" = 1'-0"

SHEET NOTES

1. WALL TYPES:
   - 4 — INDICATES 2x4 STUD WALL @ 16" O.C. (16" O.C. @ FIRE RATED WALLS) W/ 5/8" TYPE 'X' GWB BOTH SIDES. FINISH AS SCHEDULED.
     * INDICATES DELETE GWB @ INSIDE OF POCHE SPACES.
   - 6 — INDICATES 2x6 STUD WALL @ 16" O.C. (16" O.C. @ FIRE RATED WALLS) W/ 5/8" TYPE 'X' GWB BOTH SIDES. FINISH AS SCHEDULED.
     * INDICATES DELETE GWB @ INSIDE OF POCHE SPACES
   - INDICATES 1 HR RATED OCCUPANCY SEPARATION WITH 5/8" TYPE 'X' GWB BOTH SIDES PER UL FIRE TEST #R1319-4; DESIGN #U305, WALL TO EXTEND TO STRUCTURE ABOVE. STUD SIZE AS INDICATED. FINISH AS SCHEDULED.
   - INDICATES 1 HR FIRE RESISTIVE CONSTRUCTION CONSISTING OF METAL CLADDING ON PLYWD SHEATHING ON 5/8" TYPE 'X' GWB ON 2x10 WOOD STUDS ON 5/8" TYPE 'X' GWB. FINISH AS SCHEDULED. SEE WALL TYPES FOR MEMBRANE LOCATIONS.
2. PROVIDE BLOCKING FOR ALL WALL MOUNTED ITEMS.
3. SEE A6.1 FOR INTERIOR ELEVATIONS.
4. SEE SHEET A2.1 FOR ADDITIONAL SHEET NOTES.
5. USE 5/8" WATER RESISTANT GWB IN TRANSIENT QUARTERS BATHROOM IN LIEU OF REGULAR 5/8" GWB
6. FURNITURE INDICATED AS [ ] IS NOT IN CONTRACT (TYPICAL)
7. ALL CLOSET SHELVES SHALL BE ADJUSTABLE WITH PLAM FINISH. EDGEBAND ALL EXPOSED EDGES TO MATCH LAMINATE COLOR, TYPICAL.
8. HATCHING INDICATES EXTENT OF 1 HR. RATED OCCUPANCY SEPARATION IN THE FORM OF A FLOOR/CEILING ASSEMBLY. SEE 1/A5 FOR ASSEMBLY COMPONENTS



2 ROOF PLAN
1/8" = 1'-0"

1/8" = 1'-0" 0 1 3 6 10 20 30 / 2 4 8 15 25 40

1/4" = 1'-0" 0 1 3 6 10 20 / 2 4 8 15

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VILLAGE OF KONGIGANAK
LAUNDRY FACILITY
KONGIGANAK, ALASKA

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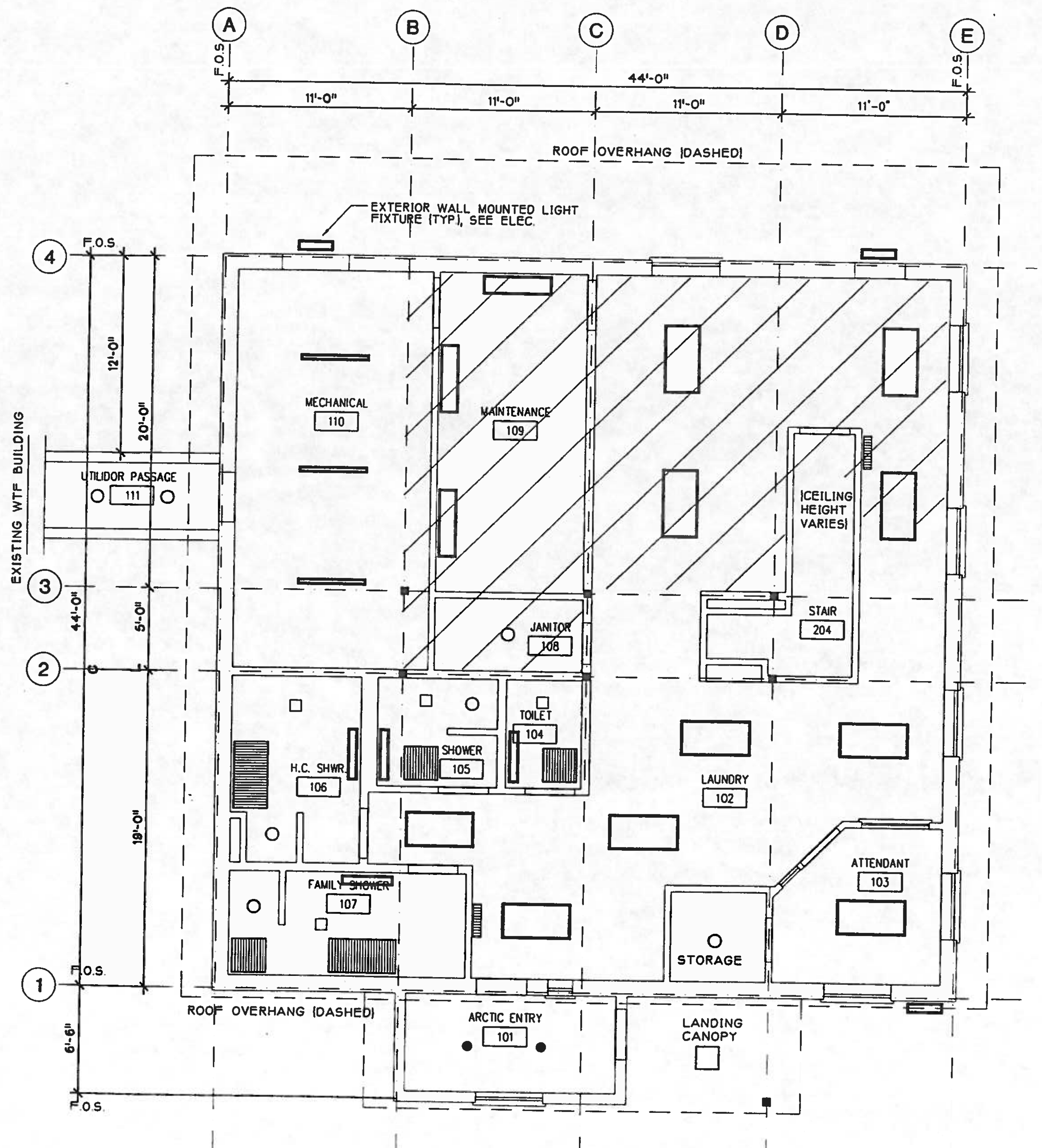

1 FIRST FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"

SHEET NOTES

1. SEE SHEETS A2.1 & A2.2 FOR WALL TYPES AND RATED WALL LOCATIONS.
2. PROVIDE FIRE BLOCKING AND DRAFT STOPS AT ALL WALLS, CEILINGS, AND CONCEALED SPACES PER 1997 UBC, CHAPTER 7.
3. GRID LINES ARE TO CENTERLINE OR FACE OF STUD, AS INDICATED.
4. PROVIDE WATER RESISTANT GWB AT ALL CEILING SPACES, FINISH AS SCHEDULED.
5. PROVIDE GWB CEILINGS AND SOFFITS WITH 'MEDIUM ORANGE PEEL' TEXTURE. PAINT TO MATCH WALL FINISH.
6. CEILING HEIGHTS TO BE 9'-0", U.O.N. ON FINISH SCHEDULE.

SHEET LEGEND

- 24x48 SURFACE MOUNTED FLUORESCENT LIGHT FIXTURES, SEE ELECTRICAL DRAWINGS.
- SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE, SEE ELECTRICAL.
- RECESSED FLUOURESCENT LIGHT FIXTURE, SEE ELECTRICAL.
- SURFACE MOUNTED INCANDESCENT LIGHT FIXTURE, SEE ELECTRICAL.
- WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL.
- EXHAUST FAN, SEE MECHANICAL.
- RADIANT HEAT PANELS & UNIT HEATERS, SEE MECHANICAL
- HATCHING INDICATES EXTENT OF 1 HR. RATED OCCUPANCY SEPARATION IN THE FORM OF A FLOOR/CEILING ASSEMBLY. RATED FLOOR/CEILING ASSEMBLY SHALL TERMINATE AT EITHER EXTERIOR WALLS OR INTERIOR 1 HR RATED WALLS.

1/4" = 1'-0" 0 1 2 3 4 6 8 10 15 20

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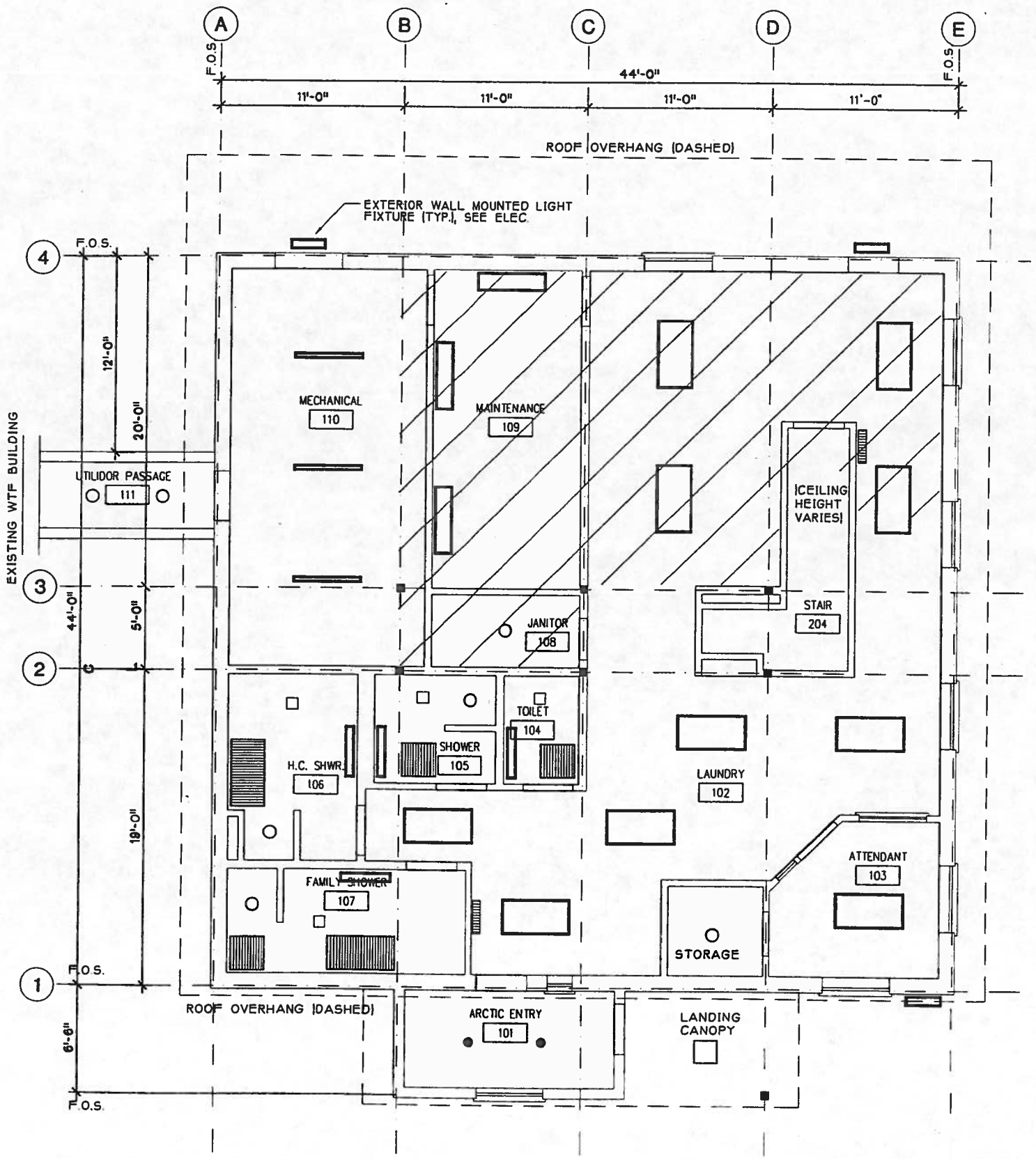

1 FIRST FLOOR REFLECTED CEILING PLAN

1/4" = 1'-0"

SHEET NOTES

1. SEE SHEETS A2.1 & A2.2 FOR WALL TYPES AND RATED WALL LOCATIONS.
2. PROVIDE FIRE BLOCKING AND DRAFT STOPS AT ALL WALLS, CEILINGS, AND CONCEALED SPACES PER 1997 UBC, CHAPTER 7.
3. GRID LINES ARE TO CENTERLINE OR FACE OF STUD, AS INDICATED.
4. PROVIDE WATER RESISTANT GWB AT ALL CEILING SPACES, FINISH AS SCHEDULED.
5. PROVIDE GWB CEILINGS AND SOFFITS WITH 'MEDIUM ORANGE PEEL' TEXTURE. PAINT TO MATCH WALL FINISH.
6. CEILING HEIGHTS TO BE 9'-0", U.O.N. ON FINISH SCHEDULE.

SHEET LEGEND

- 24x48 SURFACE MOUNTED FLUORESCENT LIGHT FIXTURES, SEE ELECTRICAL DRAWINGS.
- SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE, SEE ELECTRICAL.
- RECESSED FLUOURESCENT LIGHT FIXTURE, SEE ELECTRICAL.
- SURFACE MOUNTED INCANDESCENT LIGHT FIXTURE, SEE ELECTRICAL.
- WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL.
- EXHAUST FAN, SEE MECHANICAL.
- RADIANT HEAT PANELS & UNIT HEATERS, SEE MECHANICAL.
- HATCHING INDICATES EXTENT OF 1 HR. RATED OCCUPANCY SEPARATION IN THE FORM OF A FLOOR/CEILING ASSEMBLY. RATED FLOOR/CEILING ASSEMBLY SHALL TERMINATE AT EITHER EXTERIOR WALLS OR INTERIOR 1 HR RATED WALLS.

1/4" = 1'-0" 0 1 2 3 4 6 8 10 15 20

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VILLAGE OF KONGIGANAK
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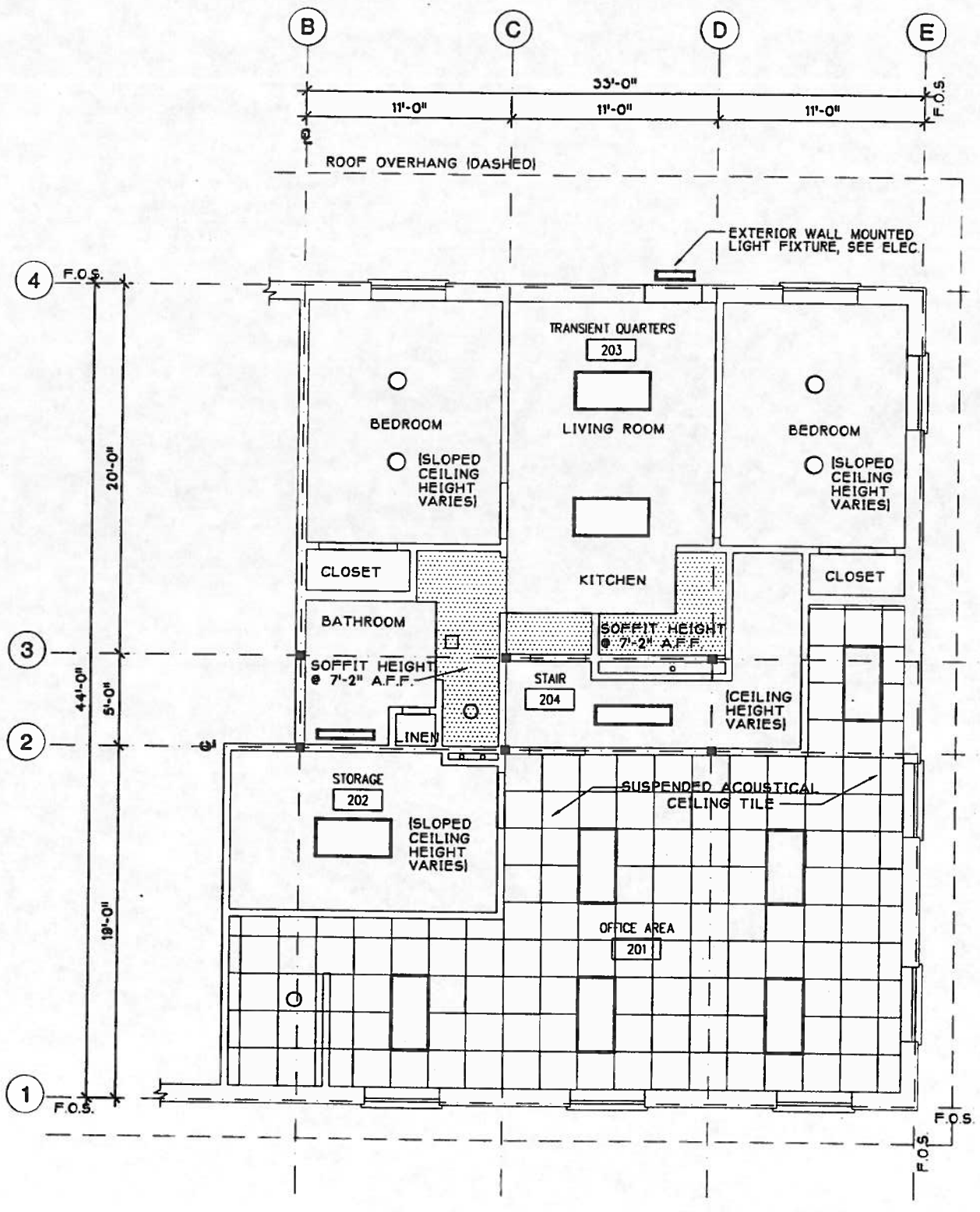
KONGIGANAK, ALASKA

DRAWN: JMT
CHECKED: JPR
DATE: 7/25/00
REVISIONS:

JOB NO. 9917
DWG. NO.
FIRST FLOOR CEILING PLAN
SHEET NO.
A2.3



1 SECOND FLOOR REFLECTED CEILING PLAN

1/4" = 1'-0"

SHEET NOTES

1. SEE SHEETS A2.1 & A2.2 FOR WALL TYPES AND RATED WALL LOCATIONS.
2. PROVIDE FIRE BLOCKING AND DRAFT STOPS AT ALL WALLS, CEILINGS, AND CONCEALED SPACES PER 1997 UBC, CHAPTER 7.
3. GRID LINES ARE TO CENTERLINE OR FACE OF STUD, AS INDICATED.
4. PROVIDE WATER RESISTANT GWB AT BATHROOM CEILING, FINISH AS SCHEDULED.
5. PROVIDE GWB CEILINGS AND SOFFITS WITH 'MEDIUM ORANGE PEEL' TEXTURE. PAINT TO MATCH WALL FINISH.
6. CEILING HEIGHTS TO BE 9'-0", U.O.N. ON FINISH SCHEDULE.

SHEET LEGEND

- 24x48 SURFACE MOUNTED FLUORESCENT LIGHT FIXTURES, SEE ELECTRICAL DRAWINGS.
- SURFACE MOUNTED INCANDESCENT LIGHT FIXTURE, SEE ELECTRICAL.
- WALL MOUNTED LIGHT FIXTURE, SEE ELECTRICAL.
- EXHAUST FAN, SEE MECHANICAL.

1/4" = 1'-0" 0 1 2 3 4 6 8 10 15 20

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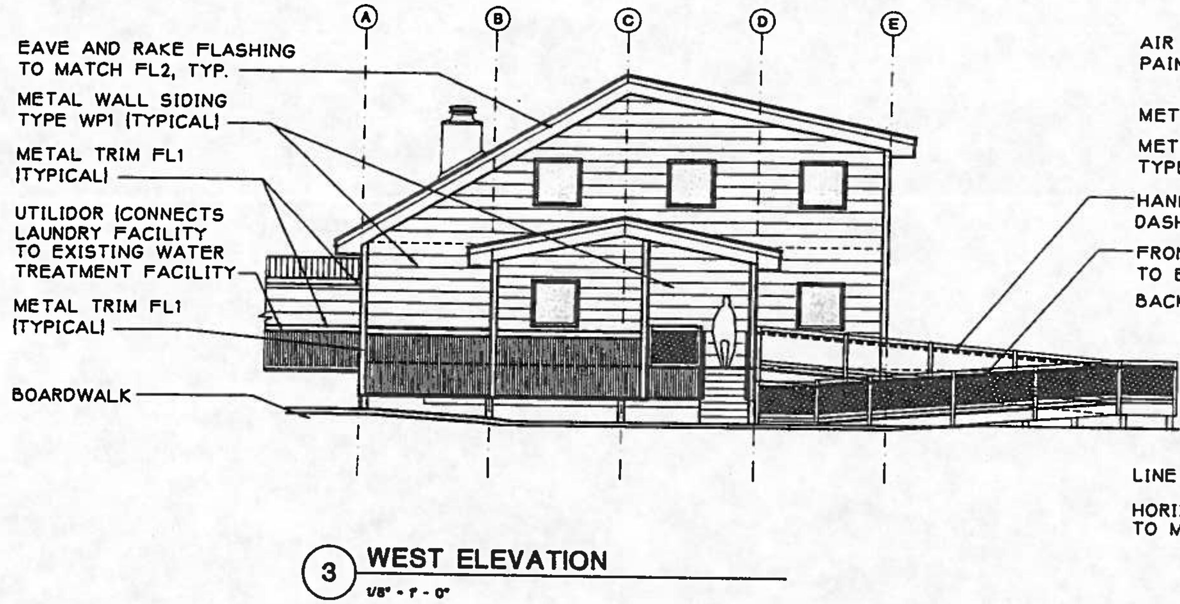
VILLAGE SAFE WATER

VILLAGE OF KONGIGANAK
LAUNDRY FACILITY
KONGIGANAK, ALASKA

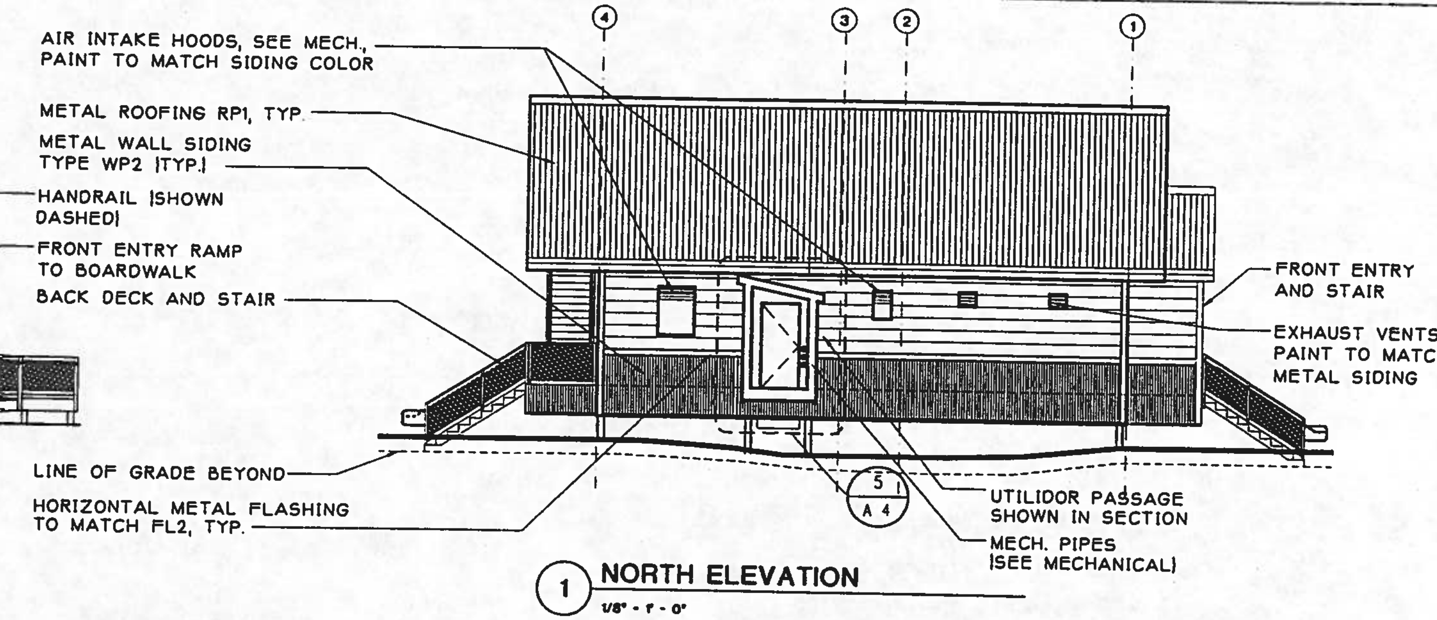
drawn: MH
checked: WK
date: 7/25/01
revisions:

job no. 9817
drwg. title
SECOND FLOOR CEILING PLAN

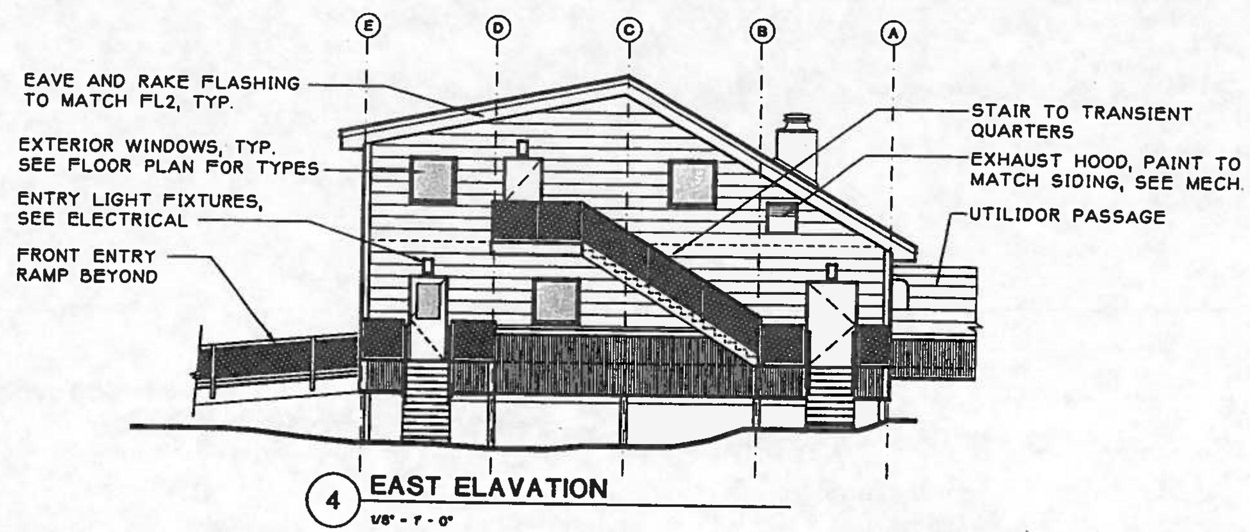
sheet no.
A2.4



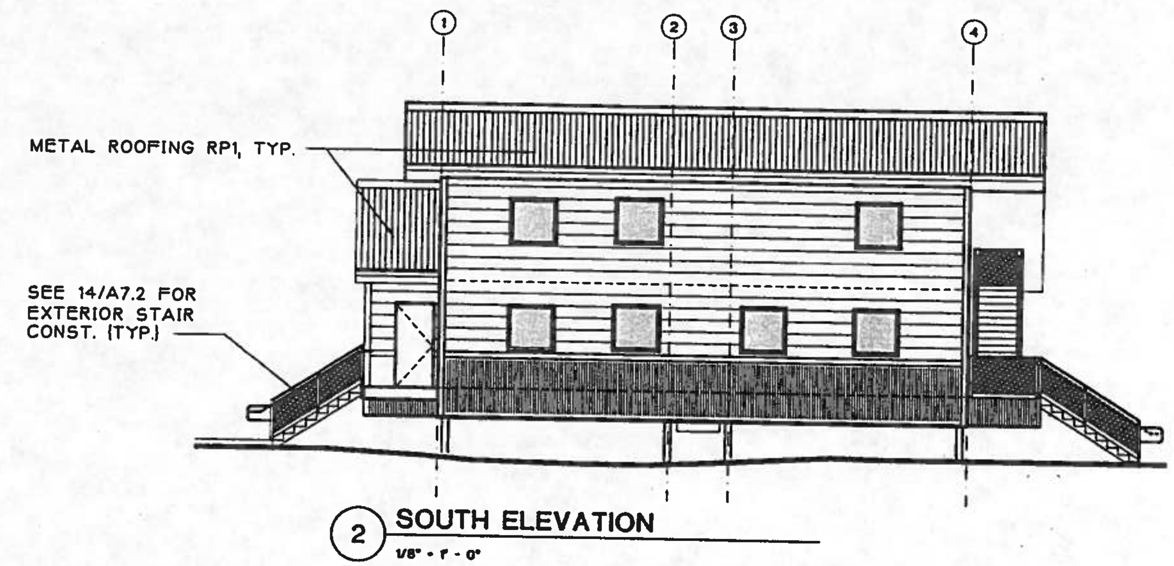
3 WEST ELEVATION
1/8" = 1'-0"



1 NORTH ELEVATION
1/8" = 1'-0"



4 EAST ELEVATION
1/8" = 1'-0"



2 SOUTH ELEVATION
1/8" = 1'-0"

DOOR SCHEDULE

DOOR NUMBER	DOOR TYPE	DOOR MAT.	DOOR FIN.	DOOR COL.	FRAME TYPE	FRAME MAT.	FRAME FIN.	FRAME COL.	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD/SILL	FIRE RATING	HDW. GRP.	REMARKS	DOOR NUMBER
101A	A	MET	PNT	-	1	MET	PNT	-	2/A7.2	2/A7.2(SIM)	4/A7.2	---	1		101A
101B	B	MET	PNT	-	1	MET	PNT	-	1/A7.2	1/A7.2 (SIM)	13A/A7.2	---	2		101B
102	B	MET	PNT	-	1	MET	PNT	-	2/A7.2	2/A7.2(SIM)	4/A7.2	---	1		102
103	B	MET	PNT	-	1	MET	PNT	-	1/A7.2	1/A7.2 (SIM)	-	---	9		103
104	A	MET	PNT	-	1	MET	PNT	-	1/A7.2	1/A7.2 (SIM)	13C/A7.2	---	3		104
105	A	MET	PNT	-	1	MET	PNT	-	1/A7.2	1/A7.2 (SIM)	13C/A7.2	---	3		105
106	A	MET	PNT	-	1	MET	PNT	-	1/A7.2	1/A7.2 (SIM)	13C/A7.2	---	3		106
107	A	MET	PNT	-	1	MET	PNT	-	1/A7.2	1/A7.2 (SIM)	13C/A7.2	---	3		107
108	A	MET	PNT	-	1	MET	PNT	-	1/A7.2	1/A7.2 (SIM)	-	---	4	WIDTH: 2'-6"	108
109	A	MET	PNT	-	1	MET	PNT	-	1/A7.2	1/A7.2 (SIM)	-	---	4		109
110A	A	MET	PNT	-	1	MET	PNT	-	1/A7.2	1/A7.2 (SIM)	13C/A7.2	60 MIN.	6		110A
110B	A	MET	PNT	-	1	MET	PNT	-	2/A7.2	2/A7.2 (SIM)	4/A7.2	---	1	WIDTH: 4'-0"	110B
110C	A	MET	PNT	-	1	MET	PNT	-	2/A7.2	2/A7.2 (SIM)	4/A7.2	---	7		110C
201	A	WOOD	PNT	-	1	MET	PNT	-	1/A7.2	1/A7.2 (SIM)	13A/A7.2	---	8		201
202	A	WOOD	PNT	-	1	MET	PNT	-	1/A7.2	1/A7.2 (SIM)	13A/A7.2	---	4		202
203A	A	WOOD	PNT	-	1	MET	PNT	-	1/A7.2	1/A7.2 (SIM)	13A/A7.2	60 MIN.	6		203A
203B	A	MET	PNT	-	1	MET	PNT	-	2/A7.2	2/A7.2 (SIM)	4/A7.2	---	1		203B
203C	A	WOOD	PNT	-	1	MET	PNT	-	1/A7.2	1/A7.2 (SIM)	13C/A7.2	---	5		203C
203D	A	WOOD	PNT	-	1	MET	PNT	-	1/A7.2	1/A7.2 (SIM)	-	---	5		203D
203E	C	WOOD	PNT	-	1	MET	PNT	-	-	-	-	---	-		203E
203F	A	WOOD	PNT	-	1	MET	PNT	-	1/A7.2	1/A7.2 (SIM)	-	---	5		203F
203G	C	WOOD	PNT	-	1	MET	PNT	-	-	-	-	---	-		203G
203H	A	WOOD	PNT	-	1	MET	PNT	-	1/A7.2	1/A7.2 (SIM)	-	---	-		203H

DOOR SCHEDULE REMARKS

1. SEE A6.2 FOR COLOR SCHEDULE
2. EXTERIOR DOORS 101A, 101B, 102, 110A AND 203B SHALL HAVE INSULATED METAL DOORS & THERMALLY BROKEN INSULATED METAL FRAMES.
3. ALL DOORS SHALL BE 3'-0" WIDE AND 7'-0" HIGH AND 1-3/4" THICK UNLESS OTHERWISE NOTED ON DOOR SCHEDULE.

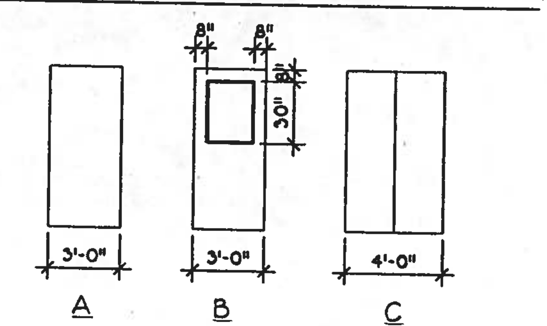
GENERAL NOTES

1. DIMENSIONS ARE TO FACE OF STUD, UNLESS OTHERWISE NOTED.
2. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS

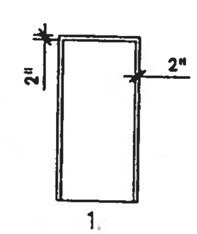
1/8" = 1'-0" 0 1 2 3 4 6 8 10 15 20 25 30 40

DOOR TYPES

(SIZE AS INDICATED UNLESS OTHERWISE NOTED ON SCHEDULE)



FRAME TYPES



1.

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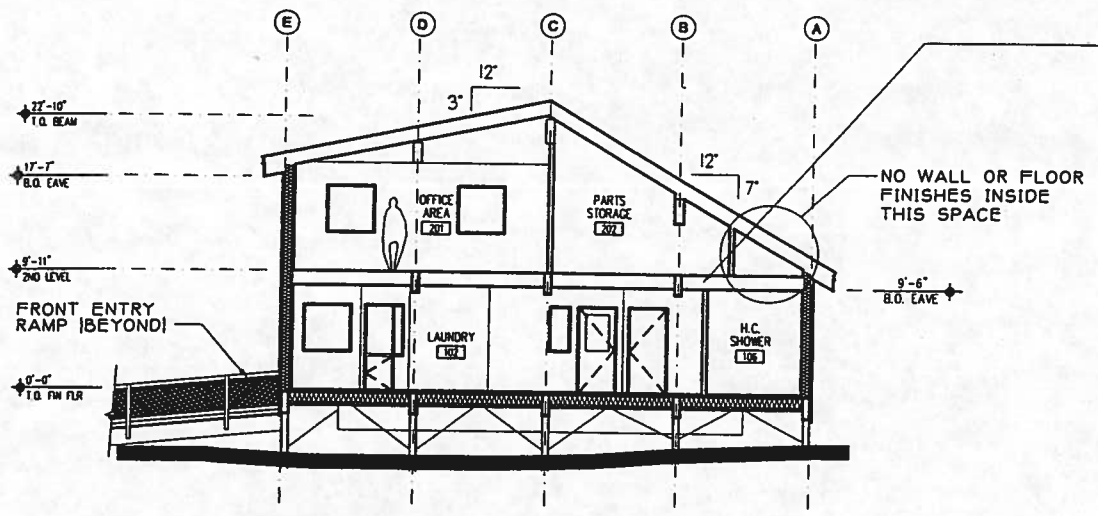
VILLAGE SAFE WATER

VILLAGE OF KONGIGANAK
LAUNDRY FACILITY
KONGIGANAK, ALASKA

drawn DMJ
checked JPK
date 2/25/00
revisions

job no. 9817
sheet title
EXTERIOR ELEVATIONS
DOOR SCHEDULE
DOOR TYPES

sheet no.
A3

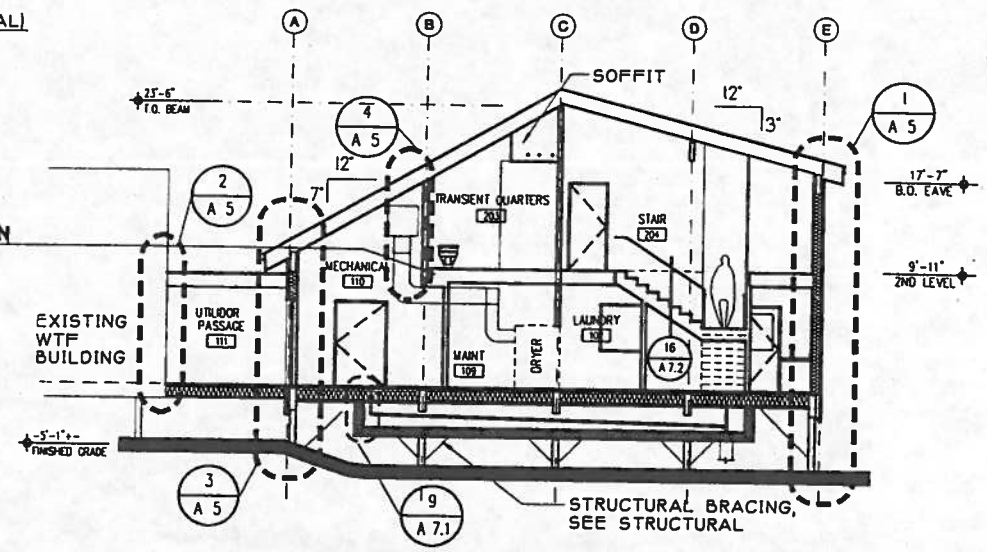


NO WALL OR FLOOR FINISHES INSIDE THIS SPACE

SECOND FLOOR CONSTRUCTION (TYPICAL)
- SCHED. FLOOR FINISH
- 1/2" PLYWOOD UNDERLAYMENT (MECHANICALLY FASTENED)
- PLYWOOD DECK
- FRAMING JOISTS, SEE STRUC.
- 5/8" TYPE 'X' GWB
- CEILING FINISH AS SCHEDULED

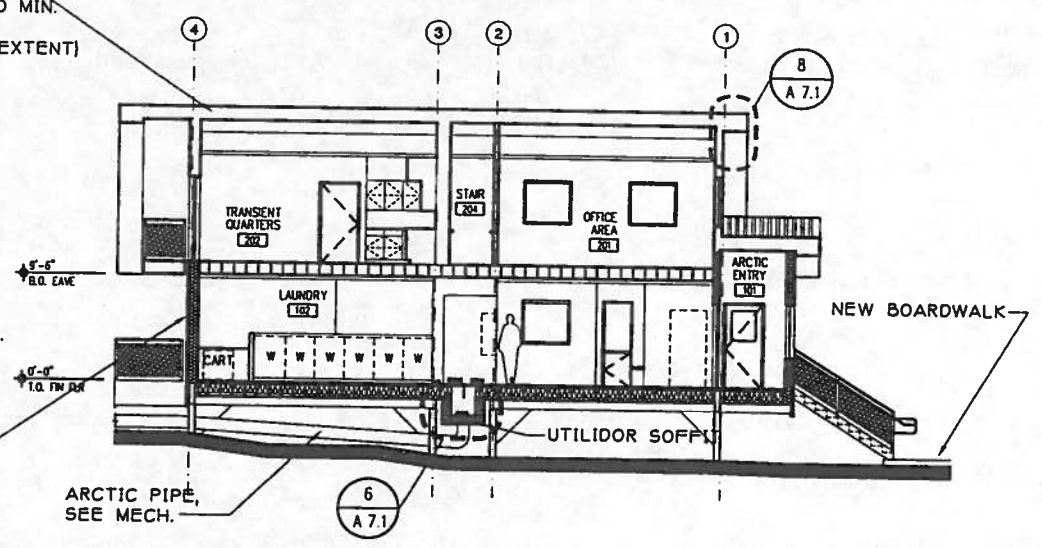
SECOND FLOOR CONSTRUCTION AT **1 HOUR RATED OCCUPANCY SEPARATION**
- SCHED. FLOOR FINISH
- 1/2" PLYWOOD UNDERLAYMENT (MECHANICALLY FASTENED)
- T&G PLYWOOD DECK
- FRAMING JOISTS, SEE STRUC.
- RESILIENT FURRING CHANNELS @ 24" O.C.
- 5/8" TYPE 'X' GWB
- CEILING FINISH AS SCHEDULED

3 BUILDING SECTION
1/8" = 1' - 0"



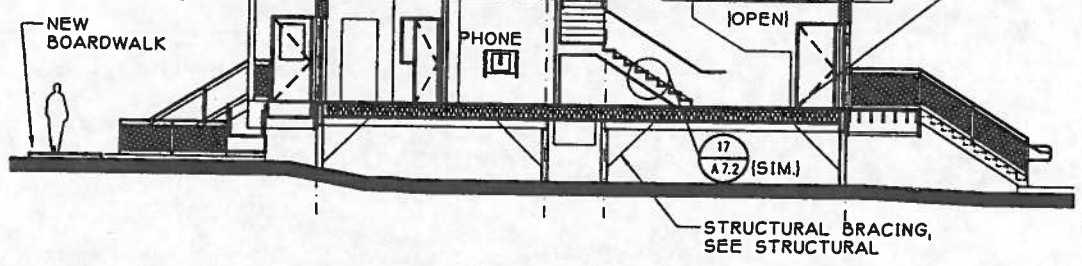
ROOF CONSTRUCTION (TYPICAL)
- SCHEDULED INTERIOR FINISH
- 10 MIL CONTINUOUS VAPOR BARRIER
- 12" THICK COMPOSITE BUILDING PANELS, R-50 MIN.
- 30# FELT UNDERLAYMENT
- ICE & WATER SHEILD (SEE ROOF PLAN FOR EXTENT)
- METAL ROOFING, SEE EXTERIOR ELEVATIONS

1 BUILDING SECTION
1/8" = 1' - 0"



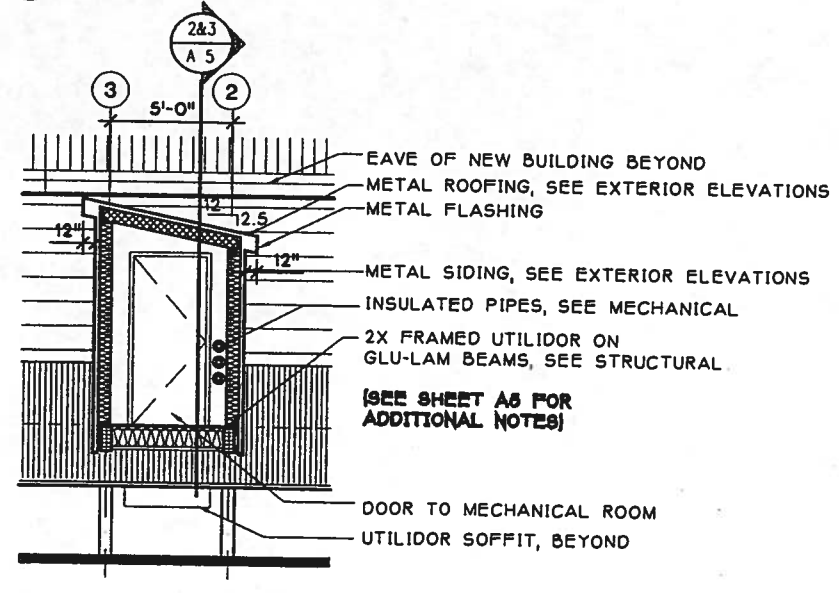
FIRST FLOOR CONSTRUCTION (TYPICAL)
- SCHED. FINISH FLOOR
- 1/2" PLYWOOD UNDERLAYMENT (MECHANICALY FASTENED)
- 10 MIL. VAPOR BARRIER
- T&G PLYWOOD DECK, SEE STRUC.
- JOISTS & GLU-LAM FRAMING, SEE STRUC.
- FULL THICKNESS BATT INSULATION, R-38 MIN.
- AIR INFILTRATION BARRIER
- 1/2" EXTERIOR PLYWOOD

EXTERIOR WALL CONSTRUCTION (TYPICAL)
- SCHED. INTERIOR FINISH ON GWB
- 10 MIL. POLYETHELENE CONT. VAPOR BARRIER
- 2x10 STUDS, SEE STRUCTURAL
- BATT INSULATION, R-38 MIN.
- PLYWOOD SHEATHING, SEE STRUCTURAL
- 30# FELT UNDERLAYMENT
- METAL SIDING, SEE EXTERIOR ELEVATIONS



4 BUILDING SECTION
1/8" = 1' - 0"

2 BUILDING SECTION
1/8" = 1' - 0"



5 UTILIDOR PASSAGE SECTION
1/4" = 1' - 0"

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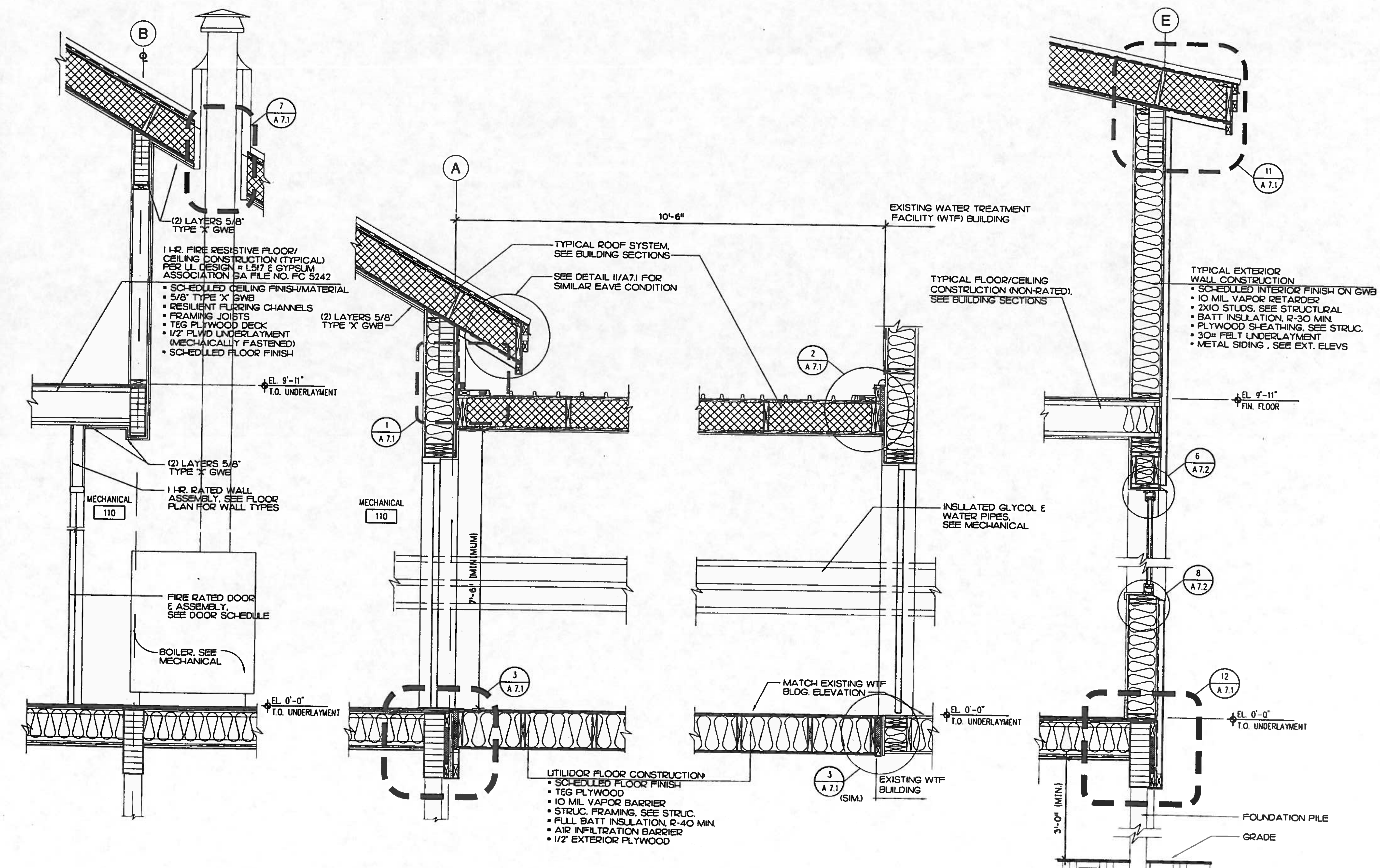
VILLAGE SAFE WATER

VILLAGE OF KONGIGANAK
LAUNDRY FACILITY
KONGIGANAK, ALASKA

drawn: MC
checked: MK
date: 7/25/00
revisions:

job no. 9817
dwg. title: BUILDING SECTIONS
NISH SCHEDULE

sheet no. A4



4 WALL SECTION
3/4" - 1' - 0"

3 WALL SECTION
3/4" - 1' - 0"

2 WALL SECTION
3/4" - 1' - 0" (CONNECTION TO EXISTING BLDG.)

1 TYPICAL WALL SECTION
3/4" - 1' - 0"

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VILLAGE SAFE WATER

VILLAGE OF KONGIGANAK
LAUNDRY FACILITY
KONGIGANAK, ALASKA

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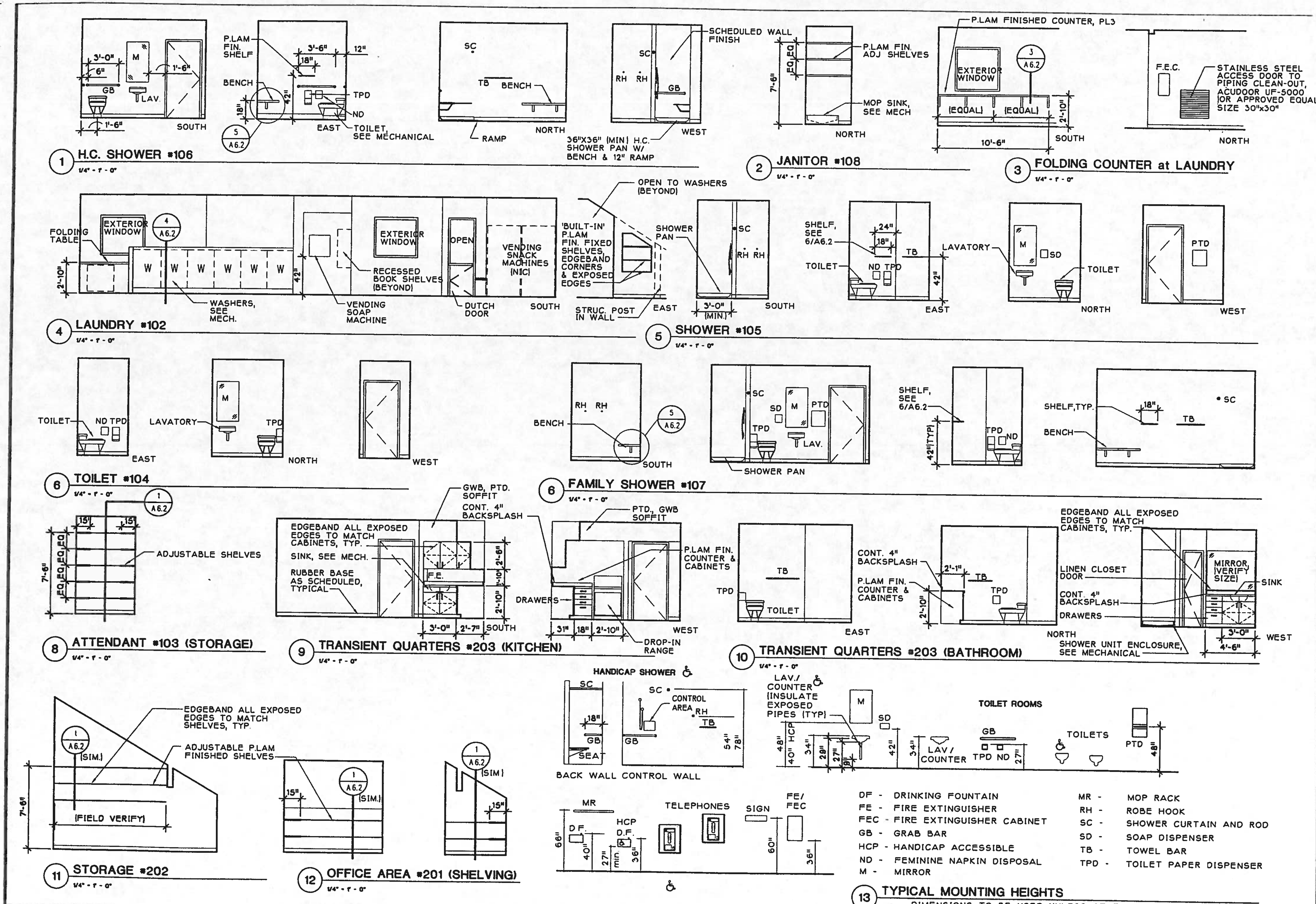
checked	UPS
date	2/25/00
revisions	
job no.	9817
dwg. title	WALL SECTIONS
sheet no.	A5



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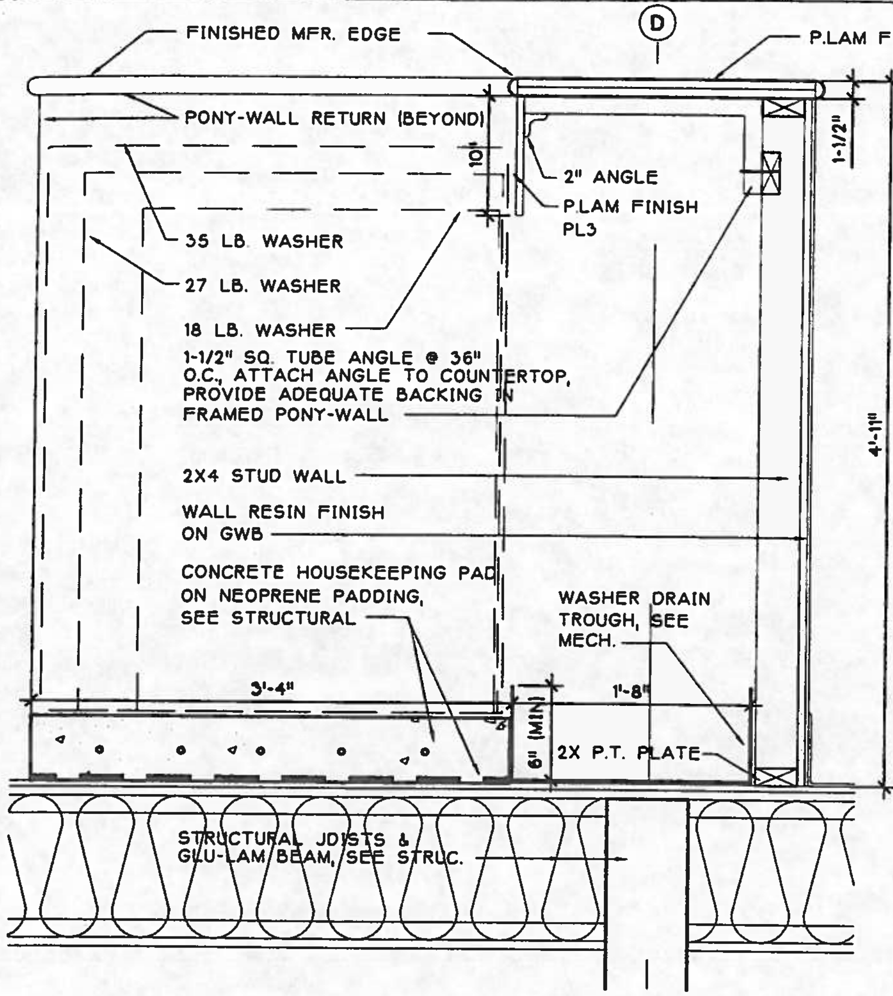
VILLAGE SAFE WATER

VILLAGE OF KONGIGANAK
LAUNDRY FACILITY
KONGIGANAK, ALASKA

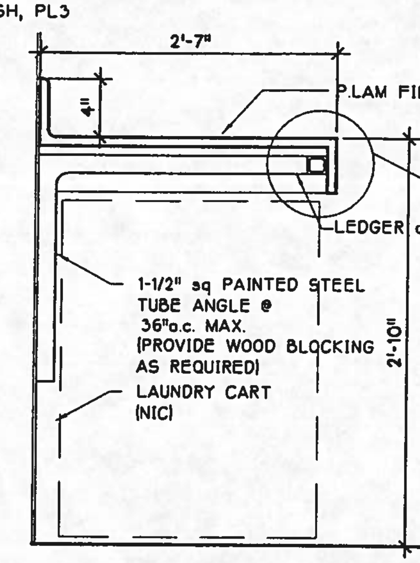
drawn: DAU
checked: UPR
date: 2/25/00
revisions

job no.: 9817
dwg title: INTERIOR ELEVATIONS

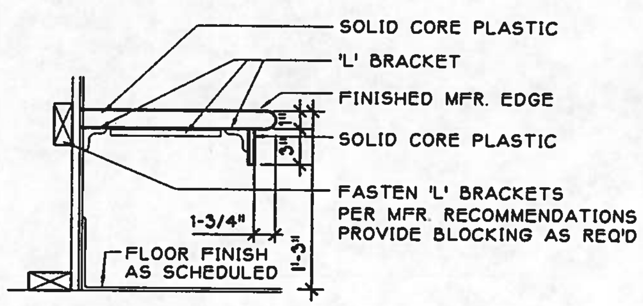
sheet no. A6.1



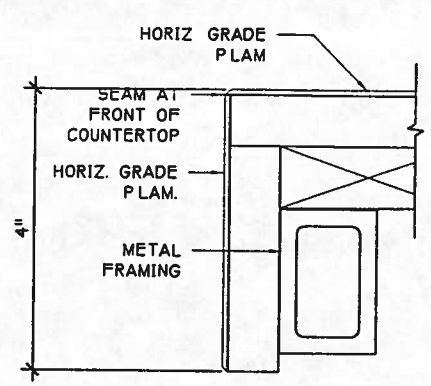
4 WASHER/COUNTER SECTION
1-1/2" = 1' - 0"



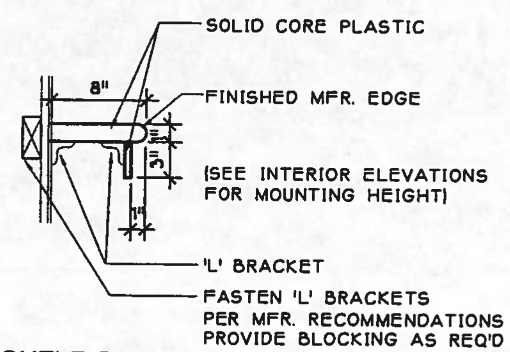
3 COUNTER TOP DETAIL
1-1/2" = 1' - 0"



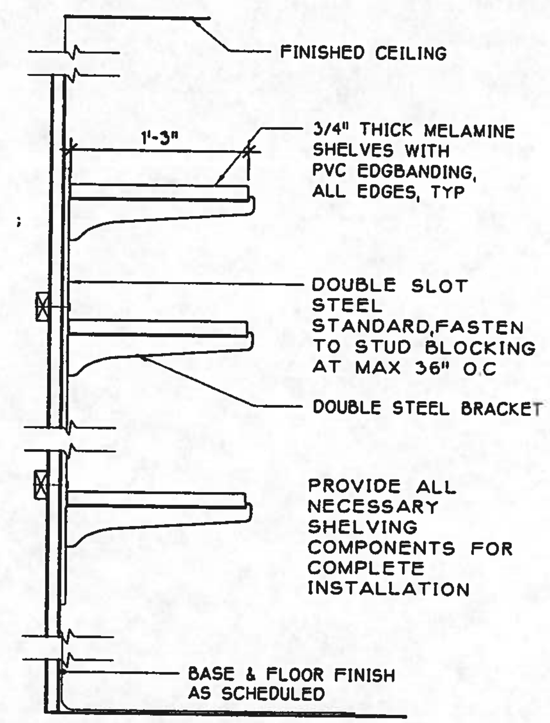
5 BENCH DETAIL
1-1/2" = 1' - 0"



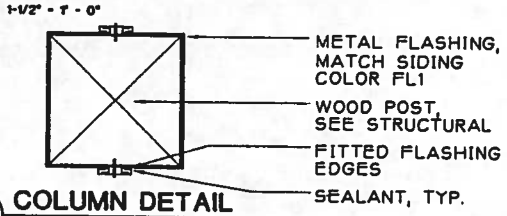
2 COUNTER EDGE



6 SHELF DETAIL
1-1/2" = 1' - 0"



1 ADJUSTABLE SHELVING
1-1/2" = 1' - 0"



7 COLUMN DETAIL
1-1/2" = 1' - 0"

FINISH SCHEDULE

SEE COLOR SCHEDULE FOR COLOR NUMBERS.

RM. NO.	ROOM NAME	FLOOR: 24 GA. GALV. SHT MTL	ENTRY MAT (EM)	RUBBER TREAD (RT)	CARPET (CPT1)	CARPET (CP2)	SHEET VINYL (SV)	FLOOR RESIN (FR)	REMARKS	BASE: RUBBER (RB1)	RUBBER (RB2)	SELF COVE (SV)	RESIN COVE (RC)	P.T. WOOD 2X6	REMARKS	WALLS: G.W.B./PNT (PNT)	WALL RESIN (WR)		REMARKS	CASEWORK: P.LAM FACES (PL2)	P.LAM SHELVES	P.LAM COUNTER (PL1)	P.LAM COUNTER (PL3)	PLASTIC BENCH/SHLF	REMARKS	CEILING: GWB (PNT)	SUSP. ACT (ACT)		REMARKS	HEIGHT	RM. NO.
101	ARCTIC ENTRY		●							●					3	●										●				9'-0"	101
102	LAUNDRY							●					●				●						●			●				9'-0"	102
103	ATTENDANT							●					●			●					●				5	●				9'-0"	103
104	TOILET							●					●				●							●	6	●				9'-0"	104
105	SHOWER							●					●				●							●	6	●				9'-0"	105
106	H.C. SHOWER							●					●				●							●	6	●				9'-0"	106
107	FAMILY SHOWER							●					●				●							●	6	●				9'-0"	107
108	JANITOR							●					●				●				●				5	●				9'-0"	108
109	MAINTENANCE							●					●				●									●				9'-0"	109
110	MECHANICAL	●												●			●									●				VAR.	110
111	UTILIDOR PASSAGE	●												●		●										●				VAR.	111
201	OFFICE AREA				●					●						●					●				5		●			9'-0"	201
202	STORAGE						●			●						●					●				5	●				VAR.	202
203	BEDROOM X2					●				●						●										●				VAR.	203
203	LIVING ROOM					●				●						●										●				VAR.	203
203	KITCHEN						●			●						●				●		●				●				VAR.	203
203	BATHROOM						●			●						●				●		●				●				VAR.	203
204	STAIR			●							●				4	●										●				VAR.	204

FINISH SCHEDULE REMARKS

1. SEE INTERIOR ELEVS FOR P.LAM COLORS AND LOCATIONS.
2. SEE 8/A7.2 FOR P.LAM COLORS AT WINDOW SILLS.
3. RUBBER WALL BASE @ ARCTIC ENTRY #101 TO MATCH ENTRY MAT COLOR.
4. ALL RUBBER STAIR COMPONENTS, I.E. STAIR STRINGERS, NOSINGS, RISERS ETC. TO MATCH STAIR #204 BASE COLOR (TYPICAL).
5. P. LAM FINISHED ADJUSTABLE SHELVING TO MATCH WALL COLOR (TYPICAL).
6. SOLID CORE PLASTIC FINISHED SHELVES & BENCHES TO MATCH WALL COLOR (WHITE).
7. ALL INTERIOR & EXTERIOR DOORS SHALL BE PAINTED COLOR PNT2, SEE COLOR SCHEDULE.
8. ALL INTERIOR DOOR FRAMES SHALL BE PAINTED COLOR PNT3, SEE COLOR SCHEDULE
9. EXTERIOR FACE OF EXTERIOR DOOR FRAMES SHALL BE PAINTED COLOR PNT4, SEE COLOR SCHEDULE.

COLOR SCHEDULE

CARPET
CPT1 MANNINGTON ARCHITECTURES, 'FACETTES' CITYSCAPE (CISC)
CPT2 J&J COMMERCIAL COLORS SUPREME #051 SURF

SHEET VINYL
SV1 MANNINGTON ARCHITECTURES #1701 FACETS

RESIN FLOOR FINISH
FR1 SILIKAL R61SL FULL FLAKE 40% NO.6 SILVER GREY 35% NO.19 STEEL BLUE 25% NO.1 EGGSHELL WHITE

RESIN WALL FINISH
WR1 VITROCEM 33-33 TWILIGHT

RUBBER BASE
RB1 ROPPE #P198 IVORY
RB2 JOHNSONITE #15 CABERNET

ACOUSTIC CEILING TILE
ACT1 ARMSTRONG

MFD METAL SIDING
WP1 BHP, PRESTIGE, 12 "OLD TOWN GRAY", SMOOTH
WP2 BHP, NU-WAVE, CORRUGATED "ZACTIQUE"

PLASTIC LAMINATE
PL1 (COUNTERTOPS) FORMICA #7017-58 SPRING FOLIAGE
PL2 (CABINET FACES) FORMICA #756-58 NATURAL MAPLE
PL3 (COUNTERTOPS/WINDOW SILLS) FORMICA #7229-58 BRICK ERROSION

PAINT
PNT1 (WALL/CEILING COLOR) SHERWIN WILLIAMS COLLECTOR'S WHITE #1907
PNT2 (INTERIOR METAL DOOR COLOR) SHERWIN WILLIAMS BLUE SARONG #1489
PNT3 (INTERIOR FRAME COLOR) SHERWIN WILLIAMS MEXICAN SAND #1089
PNT4 (EXTERIOR DOOR & FRAME COLOR) SHERWIN WILLIAMS (MATCH METAL SIDING COLOR FL1 "ZACTIQUE"
PNT5 (INTERIOR WOOD DOOR COLOR) CLEAR STAIN FINISH

MFD METAL ROOFING
RP1 BHP, KLIP-RIB (ZINCALUME) "JADE GREEN"

METAL TRIM AND FLASHING
FL1 TO MATCH BHP "ZACTIQUE"
FL2 TO MATCH BHP "JADE GREEN"

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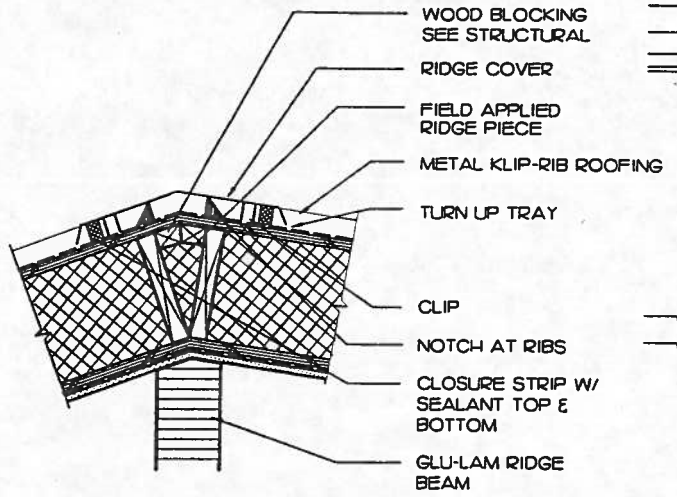
VILLAGE SAFE WATER

VILLAGE OF KONGIGANAK
LAUNDRY FACILITY
KONGIGANAK, ALASKA

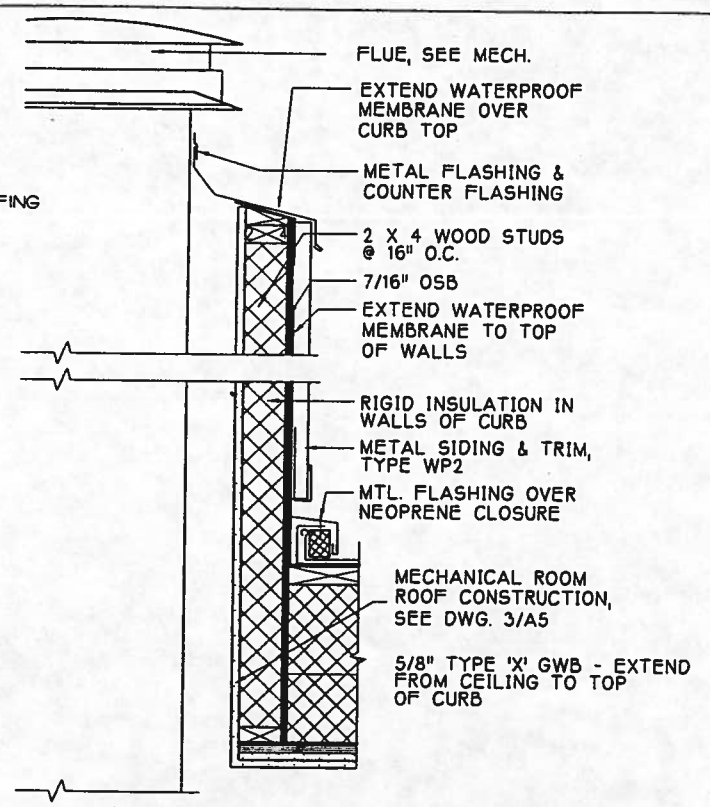
drawn DMT
checked BPR
date 2/25/00
revisions

job no. 9317
dwg title INTERIOR DETAILS FINISH SCHEDULE

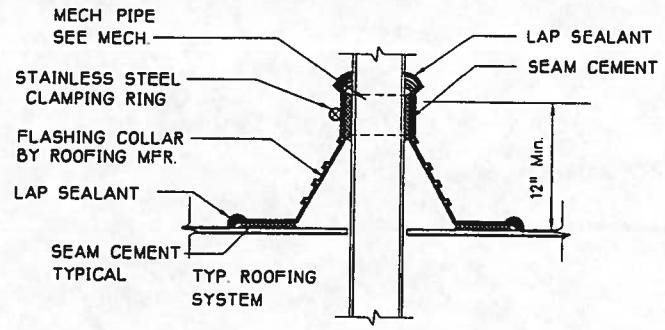
sheet no.
A6.2



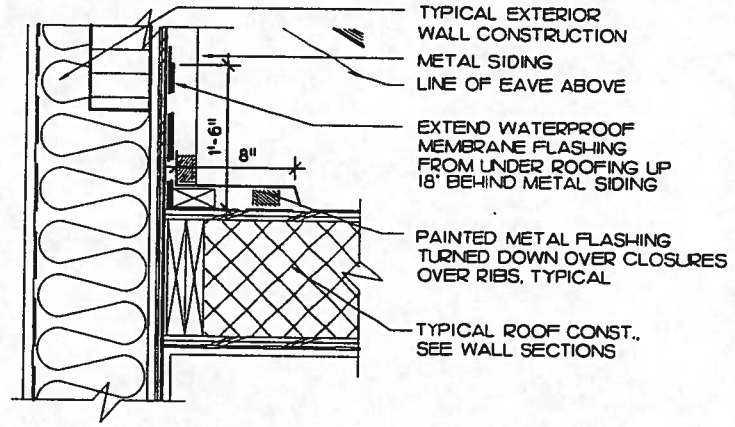
10 RIDGE DETAIL
1-1/2" = 1'-0"



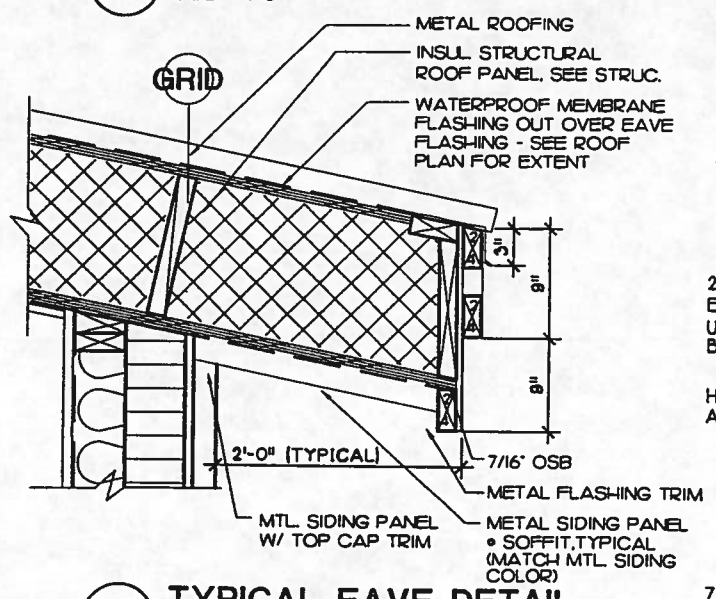
7 BOILER FLUE DETAIL
1-1/2" = 1'-0"



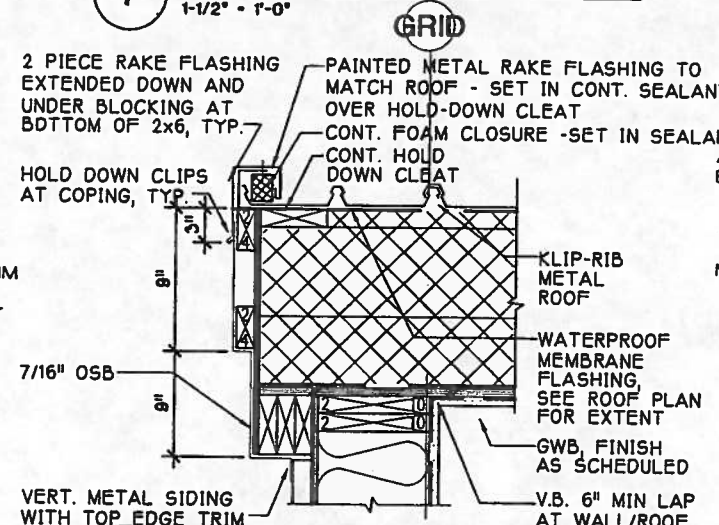
4 ROOF PENETRATION DETAIL
1-1/2" = 1'-0"



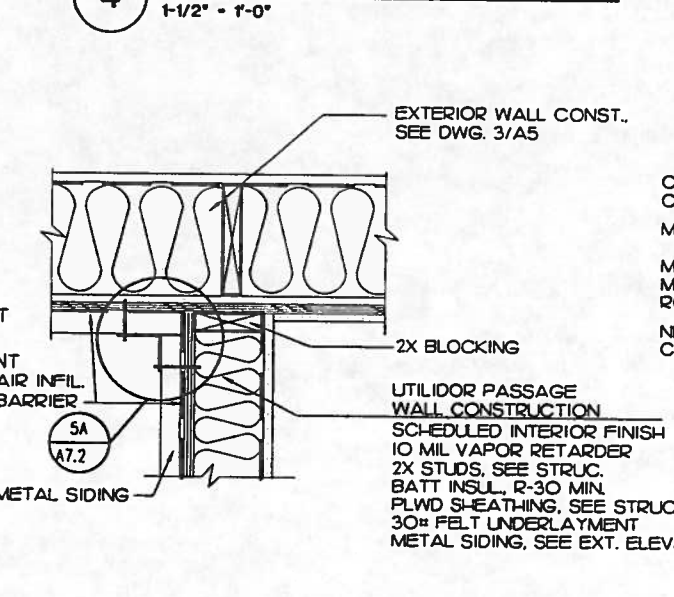
1 HEAD WALL COND.
1-1/2" = 1'-0" UTILIDOR • NEW BLDG.



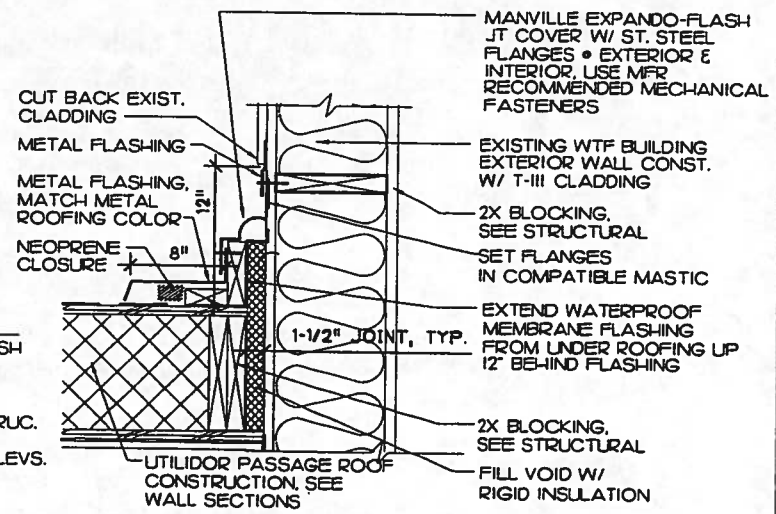
11 TYPICAL EAVE DETAIL
1-1/2" = 1'-0"



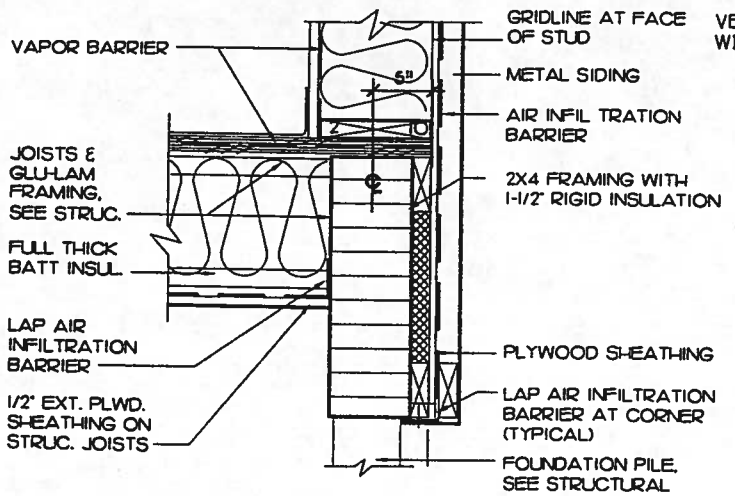
8 RAKE DETAIL
1-1/2" = 1'-0"



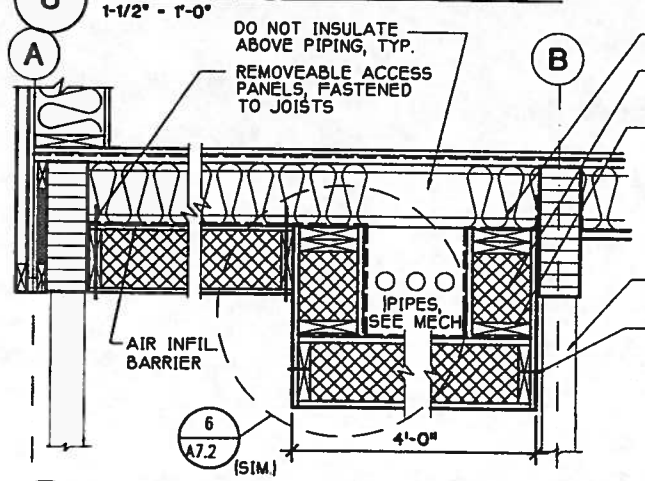
5 UTILIDOR PASSAGE DETAIL
1-1/2" = 1'-0" (PLAN VIEW)



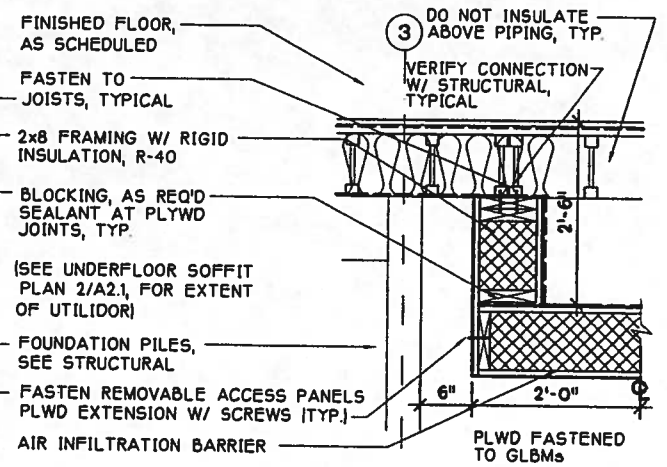
2 HEAD WALL COND.
1-1/2" = 1'-0" UTILIDOR • EXISTING BLDG.



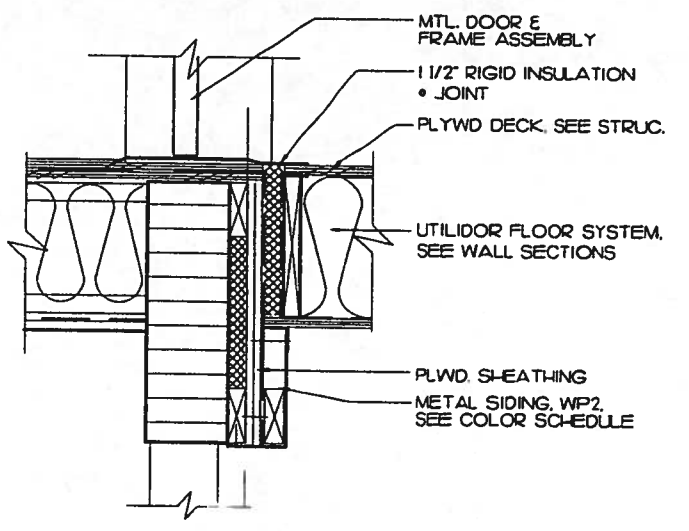
12 EXT. WALL BASE DETAIL
1-1/2" = 1'-0"



9 UTILIDOR SOFFIT SECTION
NTS



6 UTILIDOR SOFFIT SECTION
NTS



3 UTILIDOR THRESHOLD COND.
1-1/2" = 1'-0"

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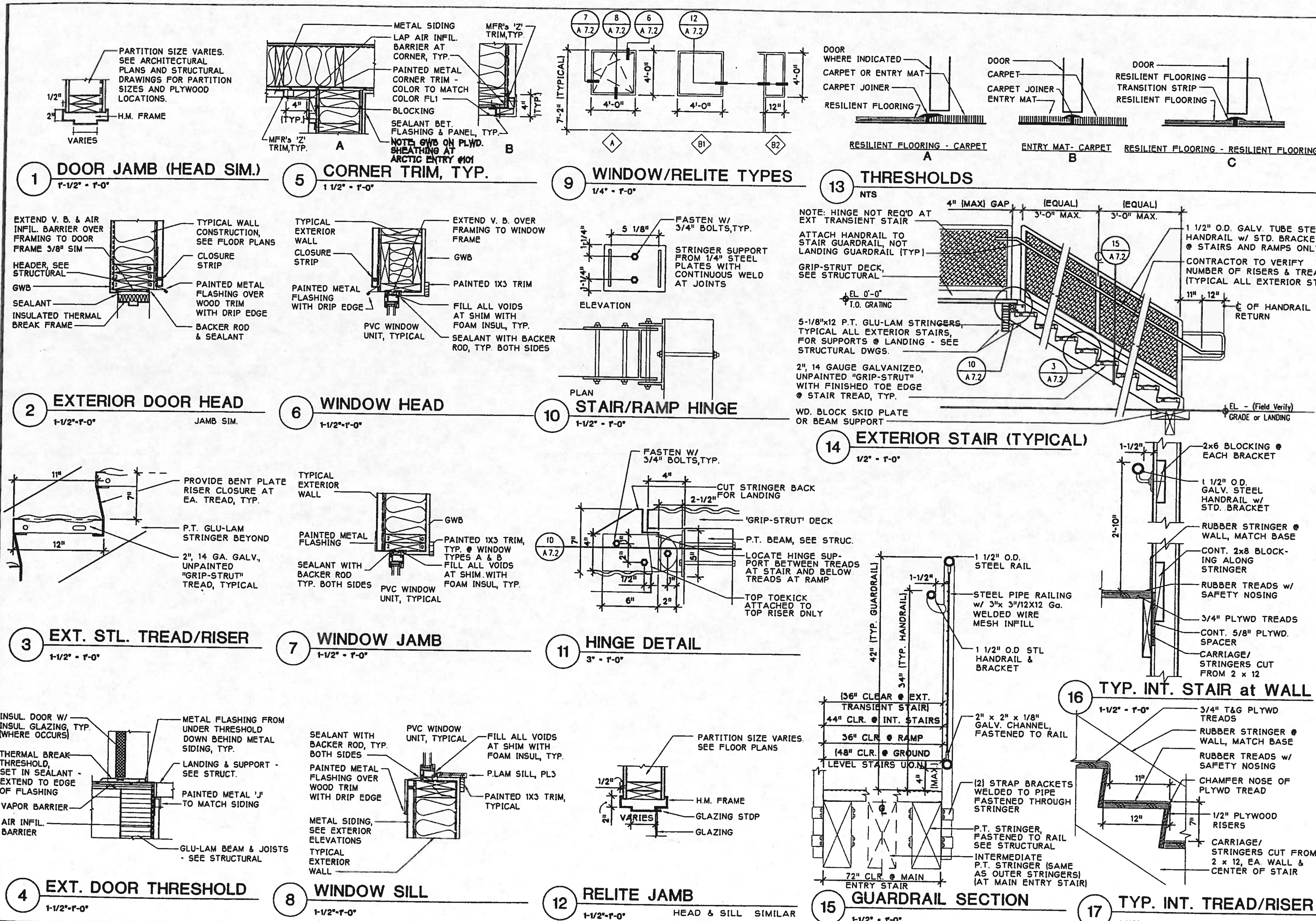
VILLAGE SAFE WATER
VILLAGE OF KONGIGANAK
LAUNDRY FACILITY
KONGIGANAK, ALASKA

drawn: MH
checked: MK
date: 7/25/00
revisions:

job no. 9917
dwg title: EXTERIOR DETAILS

sheet no. A7.1



1 DOOR JAMB (HEAD SIM.)
1'-1/2" = 1'-0"
PARTITION SIZE VARIES. SEE ARCHITECTURAL PLANS AND STRUCTURAL DRAWINGS FOR PARTITION SIZES AND PLYWOOD LOCATIONS.
H.M. FRAME
VARIES
2 EXTERIOR DOOR HEAD
1-1/2"=1'-0"
JAMB SIM.
EXTEND V. B. & AIR INFIL. BARRIER OVER FRAMING TO DOOR FRAME 3/8" SIM
HEADER, SEE STRUCTURAL
GWB
SEALANT
INSULATED THERMAL BREAK FRAME
TYPICAL WALL CONSTRUCTION, SEE FLOOR PLANS
CLOSURE STRIP
PAINTED METAL FLASHING OVER WOOD TRIM WITH DRIP EDGE
BACKER ROD & SEALANT
3 EXT. STL. TREAD/RISER
1-1/2" = 1'-0"
PROVIDE BENT PLATE RISER CLOSURE AT EA. TREAD, TYP.
P.T. GLU-LAM STRINGER BEYOND
2", 14 GA. GALV., UNPAINTED "GRIP-STRUT" TREAD, TYPICAL
4 EXT. DOOR THRESHOLD
1-1/2"=1'-0"
INSUL. DOOR W/ INSUL. GLAZING, TYP. (WHERE OCCURS)
THERMAL BREAK THRESHOLD, SET IN SEALANT - EXTEND TO EDGE OF FLASHING
VAPOR BARRIER
AIR INFIL. BARRIER
METAL FLASHING FROM UNDER THRESHOLD DOWN BEHIND METAL SIDING, TYP.
LANDING & SUPPORT - SEE STRUCT.
PAINTED METAL 'J' TO MATCH SIDING
GLU-LAM BEAM & JOISTS - SEE STRUCTURAL
5 CORNER TRIM, TYP.
1 1/2" = 1'-0"
METAL SIDING
LAP AIR INFIL. BARRIER AT CORNER, TYP.
PAINTED METAL CORNER TRIM - COLOR TO MATCH COLOR FL1
BLOCKING
SEALANT BET. FLASHING & PANEL, TYP.
NOTE: GWB ON PLWD. SHEATHING AT ARCTIC ENTRY #101
MFR's 'Z' TRIM,TYP.
A
B
6 WINDOW HEAD
1-1/2"=1'-0"
TYPICAL EXTERIOR WALL
CLOSURE STRIP
PAINTED METAL FLASHING WITH DRIP EDGE
PVC WINDOW UNIT, TYPICAL
EXTEND V. B. OVER FRAMING TO WINDOW FRAME
GWB
PAINTED 1X3 TRIM
FILL ALL VOIDS AT SHIM WITH FOAM INSUL, TYP.
SEALANT WITH BACKER ROD, TYP. BOTH SIDES
7 WINDOW JAMB
1-1/2" = 1'-0"
TYPICAL EXTERIOR WALL
PAINTED METAL FLASHING
SEALANT WITH BACKER ROD TYP. BOTH SIDES
PVC WINDOW UNIT, TYPICAL
GWB
PAINTED 1X3 TRIM, TYP. @ WINDOW TYPES A & B
FILL ALL VOIDS AT SHIM WITH FOAM INSUL, TYP.
8 WINDOW SILL
1-1/2"=1'-0"
SEALANT WITH BACKER ROD, TYP. BOTH SIDES
PAINTED METAL FLASHING OVER WOOD TRIM WITH DRIP EDGE
METAL SIDING, SEE EXTERIOR ELEVATIONS
TYPICAL EXTERIOR WALL
PVC WINDOW UNIT, TYPICAL
FILL ALL VOIDS AT SHIM WITH FOAM INSUL, TYP.
P.LAM SILL, PL3
PAINTED 1X3 TRIM, TYPICAL
9 WINDOW/RELITE TYPES
1/4" = 1'-0"
7'-2" (TYPICAL)
4'-0"
12"
A
B1
B2
10 STAIR/RAMP HINGE
1-1/2" = 1'-0"
FASTEN W/ 3/4" BOLTS,TYP.
5 1/8"
STRINGER SUPPORT FROM 1/4" STEEL PLATES WITH CONTINUOUS WELD AT JOINTS
ELEVATION
PLAN
11 HINGE DETAIL
3" = 1'-0"
FASTEN W/ 3/4" BOLTS,TYP.
CUT STRINGER BACK FOR LANDING
'GRIP-STRUT' DECK
P.T. BEAM, SEE STRUC.
LOCATE HINGE SUPPORT BETWEEN TREADS AT STAIR AND BELOW TREADS AT RAMP
TOP TOEKICK ATTACHED TO TOP RISER ONLY
12 RELITE JAMB
1-1/2"=1'-0"
HEAD & SILL SIMILAR
PARTITION SIZE VARIES. SEE FLOOR PLANS
H.M. FRAME
GLAZING STOP
GLAZING
VARIES
13 THRESHOLDS
NTS
DOOR WHERE INDICATED
CARPET OR ENTRY MAT
CARPET JOINER
RESILIENT FLOORING
RESILIENT FLOORING - CARPET
A
DOOR
CARPET
CARPET JOINER
ENTRY MAT
ENTRY MAT- CARPET
B
DOOR
RESILIENT FLOORING
TRANSITION STRIP
RESILIENT FLOORING
RESILIENT FLOORING - RESILIENT FLOORING
C
14 EXTERIOR STAIR (TYPICAL)
1/2" = 1'-0"
NOTE: HINGE NOT REQ'D AT EXT TRANSIENT STAIR
ATTACH HANDRAIL TO STAIR GUARDRAIL, NOT LANDING GUARDRAIL (TYP)
GRIP-STRUT DECK, SEE STRUCTURAL
EL 0'-0" T.O. GRATING
5-1/8"x12 P.T. GLU-LAM STRINGERS, TYPICAL ALL EXTERIOR STAIRS, FOR SUPPORTS @ LANDING - SEE STRUCTURAL DWGS.
2", 14 GAUGE GALVANIZED, UNPAINTED "GRIP-STRUT" WITH FINISHED TOE EDGE @ STAIR TREAD, TYP.
WD. BLOCK SKID PLATE OR BEAM SUPPORT
4" (MAX) GAP
(EQUAL) 3'-0" MAX.
(EQUAL) 3'-0" MAX.
1 1/2" O.D. GALV. TUBE STEEL HANDRAIL w/ STD. BRACKET @ STAIRS AND RAMPS ONLY
CONTRACTOR TO VERIFY NUMBER OF RISERS & TREADS (TYPICAL ALL EXTERIOR STAIRS)
℄ OF HANDRAIL RETURN
EL - (Field Verify) GRADE or LANDING
15 GUARDRAIL SECTION
1-1/2" = 1'-0"
42" (TYP. GUARDRAIL)
34" (TYP. HANDRAIL)
(36" CLEAR @ EXT. TRANSIENT STAIR)
44" CLR. @ INT. STAIRS
36" CLR. @ RAMP
(48" CLR. @ GROUND LEVEL STAIRS U.O.N.)
4" (MAX.)
72" CLR. @ MAIN ENTRY STAIR
1 1/2" O.D. STEEL RAIL
STEEL PIPE RAILING w/ 3"x 3"/12X12 Ga. WELDED WIRE MESH INFILL
1 1/2" O.D STL HANDRAIL & BRACKET
2" x 2" x 1/8" GALV. CHANNEL, FASTENED TO RAIL
(2) STRAP BRACKETS WELDED TO PIPE FASTENED THROUGH STRINGER
P.T. STRINGER, FASTENED TO RAIL SEE STRUCTURAL
INTERMEDIATE P.T. STRINGER (SAME AS OUTER STRINGERS) (AT MAIN ENTRY STAIR)
16 TYP. INT. STAIR at WALL
1-1/2" = 1'-0"
2'-10"
2x6 BLOCKING @ EACH BRACKET
1 1/2" O.D. GALV. STEEL HANDRAIL w/ STD. BRACKET
RUBBER STRINGER @ WALL, MATCH BASE
CONT. 2x8 BLOCKING ALONG STRINGER
RUBBER TREADS w/ SAFETY NOSING
3/4" PLYWD TREADS
CONT. 5/8" PLYWD. SPACER
CARRIAGE/ STRINGERS CUT FROM 2 x 12
17 TYP. INT. TREAD/RISER
1-1/2" = 1'-0"
3/4" T&G PLYWD TREADS
RUBBER STRINGER @ WALL, MATCH BASE
RUBBER TREADS w/ SAFETY NOSING
CHAMFER NOSE OF PLYWD TREAD
1/2" PLYWOOD RISERS
CARRIAGE/ STRINGERS CUT FROM 2 x 12, EA. WALL & CENTER OF STAIR

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VILLAGE SAFE WATER

VILLAGE OF KONGIGANAK
LAUNDRY FACILITY
KONGIGANAK, ALASKA

drawn	JMU
checked	
date	7/25/00
revisions	
job no.	
dwg title	DETAILS
sheet no.	A7.2

DIVISION 1 - GENERAL REQUIREMENTS

SECTION 01010 - SUMMARY OF WORK

The project consists of an approximately 3,300 square foot public laundry and bathing facility for the Village of Kongiganak, Alaska.

The work consists of construction of a two story, wood frame building with pile foundation, wood joists and plywood floors with glu-lam roof beams, batt insulation, rigid insulation at roof system, metal roof, metal siding, plastic windows, interior finishes and equipment, extension and development of utilities.

Install work in conformance with all federal and state codes and regulations. Where explicit details are not shown or described, the minimum requirements of the code shall apply.

Architect to apply for and obtain building permit.

Contractor to apply for other permits, and utility backcharges required to perform the work.

SECTION 01020 - PROJECT DOCUMENTS

Project drawings and specifications are outline in format and are not intended to provide complete details and instructions. Provide necessary labor and materials to complete all aspects of work. Provide materials and work, where not noted, to meet or exceed accepted industry standards. All materials shall be new and unused. They shall be delivered to the site in their original containers. The products specified are intended to indicate the standard and quality required for the project. Other products at similar or higher quality may be considered at the request of the Contractor and approval by the Architect.

SECTION 01040 - COORDINATION

Coordinate activities included in various Sections to assure efficient and orderly installation of each component. Coordinate operations included under different Sections that are dependent on each other for proper installation and operation. Inspect substrate and conditions prior to proceeding with each component of the work. Do not proceed until unsatisfactory conditions have been corrected. Provide attachment and connection devices and methods necessary for securing each construction element true to line and level.

SECTION 01050 - FIELD ENGINEERING

Verify and locate utilities, existing facilities, and equipment.
Survey and layout improvements, utilities, structures, and components.

SECTION 01300 - SUBMITTALS

Coordinate submittal preparations with performance of constructions activities; transmit in advance of performance of related activities to avoid delay. Submit shop drawings and product data for all items to be installed. Submit shop drawings drawn to scale; submit the minimum number of copies for the Architect to retain up to three copies. Submit product data and samples. All submittals to be reviewed and stamped by the Contractor prior to submittal to the Architect. The Architect will review and stamp each submittal; the stamp will be appropriately marked to indicate action taken.

SECTION 01400 - QUALITY CONTROL

Comply with applicable codes, regulations, ordinances and requirements of authorities having jurisdiction, including accessibility guidelines where applicable. Submit copies of inspection reports, notices and similar documents to the Architect.

Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years.

Use experienced installers. Furnish evidence of experience if requested.

Deliver, handle, and store materials in strict accordance with manufacturer's instructions.

Use of any supplier or subcontractor is subject to Owner's approval.

Engage and pay for testing agencies as required. Refer to individual sections for additional requirements.

SECTION 01500 - TEMPORARY FACILITIES

Provide temporary facilities and connections as required for the proper completion of the project.

Provide and maintain temporary utility services.

Meter and pay for utility service.

Provide temporary protection for adjacent areas to prevent contamination by construction dust and debris.

Provide temporary barricades as necessary to ensure protection of the public.

Provide suitable waste disposal units and empty regularly. Do not permit accumulation of trash and waste materials.

Provide temporary sanitary facilities.

Maintain egress within and around construction areas.

Provide fire extinguishers in work areas during construction.

SECTION 01700 - PROJECT CLOSEOUT

Before requesting inspection for certification of Substantial Completion, complete the following: submit warranties, workmanship bonds, maintenance agreements, final certificates and similar documents; submit record drawings, maintenance manuals and similar record information; change over permanent locks and transmit keys to the owner; complete start-up testing of systems and instruction of the Owner's personnel; complete final clean up.

Maintenance Manuals: Organize maintenance data into sets of manageable size. Bind in individual binders.

SECTION 01740 - WARRANTIES

Submit written warranties to Architect prior to date of Substantial Completion; bind warranties in binders.

DIVISION 2 - SITEWORK

SECTION 02200 - EARTHWORK

Submittals:
1. For sitework refer to Civil Drawings.

Submittals:
1. Submit product data, shop drawings, mix design, test reports.

DIVISION 3 - CONCRETE

SECTION 03300 - CAST-IN-PLACE CONCRETE

Provide concrete on installation as noted on structural drawings.

DIVISION 4 - MASONRY

(NOT APPLICABLE)

DIVISION 5 - METALS

SECTION 05120 - STRUCTURAL STEEL

Summary:
1. Refer to structural drawings for structural steel for building construction and related anchors, fasteners, and connectors.

Submittals:
1. Submit product data, shop drawings.

SECTION 05500 - METAL FABRICATIONS

General:
1. Provide the following metal fabrications:
   a. Steel treads and grating.
   b. Steel pipe guardrails and handrails.
   c. Rough hardware.
   d. Miscellaneous framing & supports.

Summary:
1. Galvanized Steel treads: "Grip Strut Safety Grating" as manufactured by United States Gypsum Company or approved equal. Provide manuf. recommended anchoring devices and clamps.
2. Exterior misc. steel will be hot-dipped galvanized after fabrication. All steel will be minimum ASTM A36 material.
3. Interior handrails will be manufactured from structural steel tubing. Joints will be coped to fit, seal welded and ground smooth.

Submittals:
1. Submit product data, shop drawings.

DIVISION 6 - WOOD AND PLASTICS

SECTION 06100 - ROUGH CARPENTRY

General:
1. Provide Rough Carpentry.
   a. Framing with dimension lumber.
   b. Framing with engineered wood products.
   c. Wood grounds, nailers, and blocking.
   d. Wood furring, backing panels.
   e. Sheathing, subflooring, underlayment.

Summary:
1. Refer to structural drawings for structural grade lumber and related anchors, fasteners, and connectors.

SECTION 06402 - INTERIOR ARCHITECTURAL WOODWORK

General:
1. Provide Interior Architectural Woodwork:
   a. Plastic-laminate cabinets and plastic-laminate countertops.
   b. Glazed frames and framed openings.
   c. Shelving.
2. Submit product data, samples.

Products:
1. AWI Standards: Architectural Woodwork Institute (AWI) "Architectural Woodwork Quality Standards."
2. WIC Standards: Woodwork Institute of California (WIC) "Manual of Millwork."
3. Interior Frames and Framed Openings:
   a. Species for Opaque Finish: Any closed-grain hardwood.
   b. Grade: Economy or medium if indicated.
4. Shelving:
   a. Species for Plastic-Laminate Finish.
   b. Grade: Economy or medium if indicated.
   c. Shelf Supports: Surface mounted.
5. Auxiliary Materials:
   a. Screws: FS FF-S-111, countersunk.
   b. Nails: FS FF-N-105, countersunk.
   c. Anchors: Type required for secure anchorage.
6. Plastic-laminate cabinets:
   a. Comply with AWI section 400 requirements for laminate cabinets.
   b. Grade: Custom.
   c. AWI Type of Cabinet Construction: Flush overlay.
   d. Laminate Cladding for Exposed Surfaces: High-pressure decorative laminate.
   e. Colors, patterns and finishes: Provide materials and products that result in colors and textures of exposed laminate surfaces complying with the drawings.
7. Plastic-laminate countertops:
   a. Comply with AWI section 400 requirements for high-pressure laminate countertops.
   b. Grade: Custom.
   c. High-Pressure Decorative Laminate Grade: HGS.
   d. Laminate Cladding for Exposed Surfaces: High-pressure decorative laminate.
   e. Colors, patterns and finishes: Provide materials and products that result in colors and textures of exposed laminate surfaces complying with the drawings.
   f. Core material: Particleboard.
   g. Core material at sinks: Particleboard made with exterior glue.

Installation:
1. Comply with requirements of Section 01000.
2. Comply with standards referenced.
3. Backprime work before installation, provide trim for scribing and site cutting.
4. Install work plumb, level and in proper alignment.
5. Provide work free from tool marks and blemishes, securely fasten to substrates.
6. Install in lengths to minimize joints and seams.
7. Color match wood for transparent finish at joints for uniform appearance.
8. Touch-up damaged or abraded finishes.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

SECTION 07210 - BUILDING INSULATION

General:
1. Provide Building Insulation and Vapor Retarders:
   a. Roof 'R-Control' composite building panel system, board type.
   b. Thermal insulation in exterior walls, blanket type.
   c. Thermal insulation at underside of first floor cavity, blanket type.
   d. Underfloor Utilidor Soffit, board type.
   e. Firesafing insulation, board or blanket type.
   f. Sheet vapor retarders.
   g. Foamed-in-place insulation
2. Submit product data.

Products:

1. Board Insulation:
   a. Expanded polystyrene, rigid, ASTM C 578, Type II, 1.35 pcf, square edge or equal, with an R-4.17 per inch at 75 degrees mean temperature.
   b. Extruded polystyrene, rigid, ASTM C 578, Type IV, Styrofoam brand square edge or equal, with an R-5 per inch at 75 degrees mean temperature.
1. Blanket/Batt Insulation:
   a. Glass fiber or mineral slag fiber, ASTM C 665, Type I (unfaced). Batt insulation to completely fill wall cavity with a minimum insulating value of R-38. Underfloor cavity to have a minimum insulating value of R-38.
2. Vapor Retarder (Not Integral with Insulation):
   a. Polyethylene, ASTM D 4397, 10 mils, 0.13 perm vapor transmission rating.
3. Accessories:
   a. Adhesives and mechanical anchors.
   b. Protection board.
   c. Crack sealers and tapes.
4. Foamed-in-place Insulation
   Use only where isolated from inhabited space of at least one layer of gypsum board. Provide one component urethane, curing by reaction with atmospheric water vapor, not requiring restraint for durability. Use for thermal isolation at irregular conditions, such hollow metal door frames at exterior walls, windows, etc.

Installation:
1. Comply with requirements of Section 01000.
2. Install insulation and vapor barriers with continuous coverage to provide optimum performance. Tape over staples, penetrations and laps. Provide vapor barrier continuous between interior partitions and exterior walls.

SECTION 07270 - FIRESTOPPING

General:
1. Provide Firestopping at the Following Locations:
   a. Penetrations through fire-resistance-rated floor and roof construction.
   b. Penetrations through fire-resistance-rated walls and partitions.
   c. Sealant joints in fire-resistance-rated construction.
2. Submit product data, test reports, mockup of each type of joint.

Products:
1. Fire Performance: ASTM E 119, ASTM E 814, and local regulations.
2. Through-Penetration Firestop Systems:
   a. Ceramic-Fiber and Mastic Coating.
   b. Endothermic, Latex Compounds.
   c. Intumescent Latex Sealant.
   d. Intumescent Putty.
3. Fire-Resistive Elastomeric Joint Sealants:
   a. Single-component, neutral-curing, silicone sealant.
   b. Multicomponent, nonsag, urethane sealant.
   c. Single-component, nonsag, urethane sealant.

Installation:
1. Comply with requirements of Section 01000.
2. Inspect work for proper firestopping prior to close-in of ceilings and walls.
3. Provide material thicknesses necessary to provide fire-resistance ratings indicated or required by authorities having jurisdiction.

SECTION 07411 - MANUFACTURED ROOF PANELS

General:
1. Provide manufactured 24 gauge roof panel assemblies complying with performance requirements indicated and capable of withstanding structural movement, thermally induced movement, and exposure to weather without failure or infiltration of water into the building interior.
2. Submit product data.

Products:
1. Air Infiltration Performance: Provide manufactured roof panel assemblies with permanent resistance to air leakage through assembly of not more than 0.009 cfm/ sq. ft. at 20 psf of fixed roof area when tested according to ASTM E 283-73.
2. Water Penetration Performance: Provide manufactured roof panel assemblies with no water penetration as defined in the test method when tested according to ASTM E 1646.
3. Wind Uplift Resistance: Provide roof panel assemblies that meet requirements of UL 580 for Class 90 wind-uplift resistance.

Installation:
1. Comply with requirements of Section 01000.
2. Installer Qualifications: Engage an experienced installer who has completed a minimum of five metal roof panel projects similar in material, design, and extent to that indicated for this Project and with a record of successful in-service performance. If required by manufacturer, installer must be approved by the panel manufacturer in writing, prior to the commencement of the work.

SECTION 07412 - MANUFACTURED WALL PANELS

General:
1. Provide manufactured 24 gauge wall panel assemblies complying with performance requirements indicated and capable of withstanding structural movement, thermally induced movement, and exposure to weather without failure or infiltration of water into the building interior.
2. Submit product data.

Products:
1. Air Infiltration Performance: Provide manufactured roof panel assemblies with permanent resistance to air leakage through assembly of not more than 0.09 cfm/ sq. ft. at 20 psf of a fixed wall area when tested according to ASTM E 283-73.
2. Water Penetration Performance: Provide manufactured wall panel assemblies with no water penetration as defined in the test method when tested according to ASTM E 331.

Installation:
1. Comply with requirements of Section 01000.
2. Installer Qualifications: Engage an experienced installer who has completed a minimum of five metal roof panel projects similar in material, design, and extent to that indicated for this Project and with a record of successful in-service performance. If required by manufacturer, installer must be acceptable by product manufacturer.

DIVISION 7- THERMAL AND MOISTURE PROTECTION (contd.)

SECTION 07620 - SHEET METAL FLASHING AND TRIM

Provide miscellaneous flashing and trim as required for metal counter and base flashing, metal trim, fascia flashing and sheet metal accessories. Provide zinc coated steel : commercial quality with 20% copper, G90 hot-dipped galvanized, ASTM A 526 except ASTM A 527 for lock-forming. All exposed roof and fascia flashing shall be prefinished with premium fluorocarbon coating with Kynar 500 Resin. For metal drip edge provide minimum 24 gauge brake-formed to dimensions indicated in 9" to 10" lengths and with all exposed edges hemmed. Provide fasteners as recommended by metal sheet manufacturer and provide for separation on metal from incompatible metal with bituminous coating or other permanent separation.

SECTION 07900 - JOINT SEALERS

Sealants and Caulking : Caulk and or otherwise seal all openings and joints as required to obtain a water tight building including sill plates, ground windows, doors and trim, roof openings, where dissimilar material abut, etc. Exterior products must be suitable for cold weather applications. Color to match adjacent material. Caulk all changes of materials at exterior. Color to match adjacent.

DIVISION 8 - DOORS AND WINDOWS

SECTION 08110 - STEEL DOORS AND FRAMES

Summary:
1. Provide Steel Doors and Frames:
   a. Exterior doors and frames.
   b. Interior door frames.
2. Submit product data.

Products:
1. Products: As selected by Architect complying with the following.
2. Standards: ANSI/SDI-100, Recommended Specifications for Standard Steel Doors and Frames.
3. Fire-Rated Assemblies: NFPA 80, and acceptable testing agency listing.
4. Steel Doors: Standard seamless steel doors with hollow or composite construction.
   a. Exterior Doors: ANSI/SDI-100, Grade III, extra heavy-duty, minimum 18 gauge galvanized sheet steel, 1-3/4 inches thick, insulated.
   b. Finish: Factory primed and field painted.
5. Steel Frames:
   a. Exterior/Interior Frames: Welded 16 gage galvanized sheet steel, mitered or coped corners.
   b. Accessories: Door silencers, plaster guards and thermal break thresholds.
   c. Finish: Factory primed and field painted.

Installation:
1. Comply with requirements of Section 01000.
2. Comply with SDI-100, and NFPA 80 for fire-rated assemblies.

SECTION 08211 - FLUSH WOOD DOORS

Summary:
1. Provide Flush Wood Doors:
   a. Interior solid core flush doors.
2. Submit product data, warranty.

Products:
1. Products: As selected by Architect complying with the following.
2. AWI Quality Standards: NWWDA I.S. 1-A, and AWI Architectural Quality Standards.
3. WIC Quality Standards: NWWDA I.S. 1-A, and WIC Manual of Millwork.
4. Fire Rated Wood Doors: Meeting ASTM E 152 requirements.
5. Interior Solid Core Doors:
   a. Grade: Custom grade.
   b. Construction: 5-ply or 7-ply construction with particleboard or glued-block core.
   c. Finish: Transparent finish on slip-matched plain-sliced white oak faces.
6. Fitting and Finish:
   a. Fitting: Factory-prefit and premachine doors.
   b. Site Finish: Shop prime and site finish. Seal all door edges.

Installation:
1. Comply with requirements of Section 01000.
2. Comply with NWMA IS-1 and AWI Quality Standards.
3. Prefit doors to frames, premachine doors for hardware, and factory bevel.
4. Install with not more than 1/8 inch clearance at top and sides, 1/4 inch at bottom unless undercut is required.

SECTION 08610 - PLASTIC WINDOWS

Provide Casement extruded, high impact resistant, polyvinyl chloride (PVC). Frame and sash members shall be multi-chambered design with a minimum of two air spaces between interior and exterior surfaces. Frame and sash walls will be a minimum of 1/8" thick. All corners to be miter cut and fusion welded. All PVC members shall be reinforced with roll-formed, galvanized steel fastened at no more than 10 inch increments. Provision of pressure equalization with baffled internal weepage shall be incorporated in the system. All operating sash shall be double weather-stripped with EPDM. Glazing shall be double high performance low 'e' insulating glass filled with argon. A double glazing system incorporating a removable storm sash on the interior side will not be allowed. Hardware assembly to be adjustable on three axes. Load carrying portions of hardware must be attached to metal reinforcement in frame. Provide 18 x 16 fiberglass mesh insect screens. Frames to match windows. Provide homogeneous color throughout material.

Windows to be guaranteed for a period of ten years.

Windows to have air infiltration not to exceed .06 cfm per foot of sash when tested with ASTM E283.84. Water resistance shall have no leakage when subject to pressure drop of 6.24 pfs. Overall U value of 0.32 or less.

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LAUNDRY FACILITY
KONGIGANAK, ALASKA

drawn	MH
checked	WK
date	2/25/91
revisions	
job no.	9017
dwg. title	SPECIFICATIONS
sheet no.	A8.1

SECTION 08710 – DOOR HARDWARE

General:
1. Provide heavy duty commercial grade hardware with lever handle as needed for handicap access.
2. Submit product data, proposed hardware schedule, and maintenance data. Contractor shall be responsible for all items required for a complete and fully operable installation. All items shall be subject to Owner's approval.

Products:
1. Products: Schlage or equal.
2. Product Requirements:
   a. Hardware for Fire-Rated Openings: NFPA 80, and local requirements.
   c. Materials and Application: ANSI A156 series standards.
   d. Quality Level: Heavy Duty Commercial type.
3. Locksets and Latchsets: Cylinder type.
4. Lock Cylinders: Interchangeable type.
5. Keying: Owner's requirements keying and key control system.
6. Hinges and Butts: Full-mortise type with nonremovable pins at exterior, entrance and security doors.
7. Hardware Finishes: Satin aluminum finish on exposed surfaces.
8. Not used.
9. Stops for each door.
10. Closers.
11. Flush bolts with dustproof strikes.
12. Not used.
13. Interior bifold door hardware.
14. Weatherstripping
15. Thresholds.

Installation:
1. Comply with requirements of Section 01000.
2. Comply with OHI "Recommended Locations for Builder's Hardware" and hardware manufacturers instructions.

SECTION 08712 – DOOR HARDWARE GROUPS

General:
1. Work under this section includes the complete finish hardware requirements Quantities listed are for the Contractor's convenience only and are not guaranteed. Items not specifically mentioned but necessary to complete the project shall be furnished matching the items specified in quality, size and finish.
2. Coordinate the final Door Hardware Schedule with doors, frames and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
3. Keying Schedule: Prepared by or under the supervision of supplier, detailing Owner's final keying instructions for locks: Include schematic keying diagram and index
4. Installer Qualifications: An experinced intaller who has completed door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
5. Supplier Qualifications: Door hardware supplier with warehousing facilities in Project's vicinity and who is or employs a qualified Architectural Hardware Consultant, available during the course of the Work to consult with Contractor, Architect and Owner about door hardware and keying.
6. Regulatory Requirements: Where indicated to comply with accessibility requirements comply with Americans with Disabilities Act (ADA), as follows:
   a. Handles, pulls, latches, locks and other operating devices: Shape that is easy to grasp with one hand and does not require tight grasping or twisting of the wrist.
   b. Thresholds: Not more than 1/2 inch (13 mm) high. Bevel raised thresholds with a slope of not more than 1:12.
   c. NFPA 101: Comply with the following for means of egress doors: Latches, locks and exit devices: Not more than 15 lbf to release the latch. Locks shall not require the use of a key, tool, or special knowledge for operation.
7. Maintenance Tools & Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance and removal and replacement of door hardware.

Hardware Group #1: Doors 101A, *102, 110B & 203B.

3 ea.	Butts	ST	CB1900
1 ea.	Closer	LCN	4040EDA
1 ea.	Heavy Duty Mortise Lockset with 'L' Series type handset and cast type lever design.		(*Door #102 to receive lockset type SC S80PD F86 626)
1 ea.	Interchangeable Core Cylinder		
1 ea.	Weatherstripping		
2 ea.	Kickplate	HAG	190S (Stainless Steel)
1 ea.	Door Bottom		
1 ea.	Threshold	PE	255X50
		PE	254X5D (Door #101A)

Hardware Group #2: Door 101B

3 ea.	Butts	ST	CB1900
1 ea.	Push plate	HAG	40R
1 ea.	Pull	HAG	6N
1 ea.	Wallstop	GJ	50C
2 ea.	Kickplate	HAG	190S (Stainless Steel)

Hardware Group #3: Doors 104, 105, 106 & 107

3 ea.	Butts	ST	CB1900
1 ea.	Lockset (Lever type handset)	SC	S40D F76 626
1 ea.	Wallstop	GJ	50C
2 ea.	Kickplate	HAG	190S (Stainless Steel)

Hardware Group #4: Doors 108, 109 & 202

3 ea.	Butts	ST	CB1900
1 ea.	Lockset (Lever type handset)	SC	S80PD F86 626
1 ea.	Wallstop	GJ	50C
2 ea.	Kickplate	HAG	190S (Stainless Steel)

Hardware Group #5: Doors 203C, 203D & 203F

3 ea.	Butts	ST	CB1900
1 ea.	Lockset (Knob type handset)	SC	S40D F76 626
1 ea.	Floorstop	GJ	FB15
2 ea.	Kickplate	HAG	190S (Stainless Steel)

Hardware Group #6: Door 110A, 203A

3 ea.	Butts	ST	CB1900
1 ea.	Lockset (Knob type handset)	SC	S80PD F86 626
1 ea.	Closer	LCN	4040EDA
2 ea.	Kickplate	HAG	190S (Stainless Steel)
1 ea.	Smokegasket		
1 ea.	Threshold	PE	---

Hardware Group #7: Door 110C

3 ea.	Butts	ST	CB1900
1 ea.	Lockset (Knob type handset)	SC	S70PD F84 626
1 ea.	Wallstop	GJ	50C
2 ea.	Kickplate	HAG	190S (Stainless Steel)
1 ea.	Threshold	PE	255X5D

Hardware Group #8: Doors 201 & 204

3 ea.	Butts	ST	CB1900
1 ea.	Lockset (Lever type handset)	SC	S80PD F86 626
1 ea.	Closer	LCN	4040EDA
2 ea.	Kickplate	HAG	190S (Stainless Steel)
1 ea.	Threshold	PE	255X5D

Hardware Group #9: Door 103

3 ea.	Butts	ST	CB1900
1 ea.	Lockset (Lever type handset)	SC	S51PD F81 626
2 ea.	Kickplate	HAG	190S (Stainless Steel)
1 ea.	Wallstop	GJ	50C

SECTION 08800 – GLAZING

Provide Type I, Class 1 clear float glass for typical installation. Provide tempered or laminated safety glass at all doors, transoms and sidelights and elsewhere as required by UBC for areas subject to human impact.
For insulated glass units provide low-e, argon filled; coat secand surface of exterior pane; interior pane to remain uncoated; U-value to be 0.31 minimum.

Glazing Schedule
A. Exterior Windows, Insulated : Safety or Tempered Glass
B. Exterior Doors, Insulated : Safety or Tempered Glass
C. Vestibule Relites, Insulated : Safety or Tempered Glass
D. Vestibule Doors : Safety or Tempered Glass
F. Interior Doors : (Non-Rated) Safety Glass
F. Interior Relites : (Non-Rated) Safety Glass

DIVISION 9 – FINISHES

SECTION 09255 – GYPSUM BOARD ASSEMBLIES

Provide Type X (Firecode C by USG), 5/8" gypsum wallboard throughout for walls and ceilings. Provide water-resistant Type X (Firecode C by USG), 5/8" gypsum wallboard on walls in bathrooms, toilets, and janitor areas. Provide gypsum wallboard and accessories as manufactured by United States Gypsum Co. Provide gypsum cornerbeads and edge trim, joint tape and factory-premixed joint compound, fastening adhesives for wood, gypsum board screws, sound attenuation blankets. Install gypsum wallboard and accessories as recommended by manufacturer for given application. Finish gypsum wallboard joints and edges with three coats of joint compound; comply with manufacturer's recommendation when gypsum wallboard is base for acoustical tile or paint. Prepare and prime drywall and other surfaces in strict accordance with texture finish manufacturer's instructions. Apply primer to all surfaces to achieve texture finish. All gypsum wallboard scheduled for paint shall receive a light orange peel texture prior to painting.

SECTION 09510 – ACOUSTICAL CEILING

Provide 24" x 24" panel ceilings and suspension system as manufactured by Armstrong, wet-formed mineral fiber. Type: 'Georgian', Color: White, with beveled tegular edges compatible with a Prelude 15/16 Tee system. Provide manufacturer's recommended suspension system.

SECTION 09666 – SHEET VINYL FLOOR COVERING

Sheet vinyl shall meet Federal Specification L-F-457A(3), Type II, Grade A, and ASTM F 1303, Type II, Grade 1 : Homogeneous wearing surface with Class A backing, overall thickness of 0.085 inch. Sheet width to be 6 feet and seams shall be heat welded.

SECTION 09678 – RESILIENT WALL BASE AND ACCESSORIES

General:
1. Provide resilient wall base, resilient stair accessories, resilient flooring accessories, resilient carpet accessories.
2. Submit product data, samples.

Products:
1. Products: As selected by Architect complying with the following.
2. Resilient Wall Base:
   a. Rubber Wall Base: FS SS-W-40, Type I, 0.125 inches thick
   b. Height: 4 inches inches.
   c. Type: Straight type.
3. Installation Accessories:
   a. Adhesives: Water-resistant type.

Installation:
1. Comply with requirements of Section 01000.

SECTION 09680 – CARPET

Provide carpet the meets the following :
- Dense Cut Pile with yarn weight at 38oz./sq. yd. Primary backing to be woven polypropylene. Carpet to be Colors Supreme, #051 Surf as manufactured by J&J Commercial.
- Patterned loop with yarn weight at 28 oz./sq. yd. Primary backing to be woven polypropylene with a secondary backing of woven polypropylene. Carpet to be Facettes, Cityscape as manufactured by Mannington.

SECTION 09700 – SPECIAL FLOORING

General:
1. Work under this section includes all labor, materials, equipment and services necessary toprepare the substrate and install a Silikal R66SLQ flooring system with elastomeric membrane and 4" cove.

Submittals:
1. Submit manufacturer's technical data, for each product used.
2. Color Samples: Submit one finished sample for each color offered by the manufacturer. Upon color selection by the architect, submit (3) 3" x 3" samples representing color and texture of the finished floor.
3. Maintenance Instructions: Submit manufacturer's written instructions for recommended maintenance practices.

Quality Assurance:
1. Installer Qualifications: Engage an experienced installer or applicator who specializes in installing resinous flooring types similar to that required for this project and who is acceptable to the manufacturer. Submit written acceptance of the installer from the manufacturer.
2. Qualified Materials: Request for material approvals for any products other than the specified products must be submitted to the Architect. Request must include complete application specifications, physical characteristics and chemical resistance data.
3. Warranty: Installed work shall be warranted in writing by the manufacturer for 2 years from the date of acceptance for cracking, crazing, delamination from substrate, discoloration and joint failure under normal and intended use. Work that has failed as described above shall be repaired and replaced at no cost to the Owner.

Storage & Handling:
1. Store materials to comply with manufacturer's directions to prevent deterioration from moisture, heat, cold, direct sunlight or other damaging conditions.

Materials:
1. All resins and colorquartz aggregate to be manufactured by Silikal Resin Systems or approved equal.
   a. Primer: Silikal R51 for plywood substrates.
   b. Elastomeric Membrane: Silikal R68
   c. Body Coats: Silikal R66
   d. Top Coats: Silikal R81 with Microban B antimicrobial additive.
   e. Colorquartz: Silikal Colorquartz
2. Colors as selected by Architect.
3. Perpare substrate as recommeded by manufacturer. Apply resin layers per manufacturer's recommendations.

SECTION 09815 – SPECIAL COATINGS

General:
1. Work under this section includes all labor, materials, equipment and services necessary to prepare the substrate and install a Hi-Build Fiberglass Reinforced Glazed Coating system as manufactured by Vitrocem.

Submittals:
1. Submit one finished color sample for each folor offered by the manufacturer for final color selection by Architect.
2. Submit manufacturer's written instrucitons for recommended maintenance practices.

Quality Assurance:
1. Installer Qualifications: Engage an experienced installer or applicator who specializes in installing resinous wall types similar to that required for this project and who is acceptable to the manufacturer. Submit written acceptance of the installer from the manufacturer.
2. Qualified Materials: Request for material approvals for any products other than the specified products must be submitted to the Architect. Request must include complete application specifications, physical characteristics and chemical resistance data.
3. Warranty: Installed work shall be warranted in writing by the manufacturer for 2 years from the date of acceptance for cracking, crazing, delamination from substrate, discoloration and joint failure under normal and intended use. Work that has failed as described above shall be repaired and replaced at no cost to the Owner.

Storage & Handling:
1. Store materials to comply with manufacturer's directions to prevent deterioration from moisture, heat, cold, direct sunlight or other damaging conditions.

Materials:
1. All Plyester Enamels and Fiberglass Roving to be manufactured by Vitrocem or approved equal.
   a. Joint Filler: Beadex Silverset 90 Taping Mud.
   b. Bodycoats: Vitrocem Ployester Enamel Filler with Fiberglass roving
   c. Color coats and spotting: Vitracem Polyester Enamel
   d. Top Coat: Vitrocem Clear Anti-Graffiti Glaze Coat
2. Colors as selected by Architect.
3. Perpare substrate as recommeded by manufacturer Apply resin layers per manufacturer's recommendations.

SECTION 09900 – PAINTING

Provide best quality, top of the line paint systems for the applications indicated. The following paint schedules are based on Sherwin Williams systems.

EXTERIOR PAINT SCHEDULE

A. Refer to Drawings for color selections.

INTERIOR PAINT SCHEDULE

A. Gypsum Drywall: General
   1 coat latex-based interior white primer.
   2 coats low-luster (eggshell or satin) acrylic-latex-based interior enamel.

B. Gypsum Drywall: At toilets, janitor closet and shower rooms.
   1 coat latex-based interior white primer.
   2 coats latex-based interior semi-gloss enamel.

C. Woodwork, Hardboard and Particleboard:
   1 coat alkyd or latex-based interior enamel primer.
   2 coats alkyd interior semi-gloss enamel.

DIVISION 10 – SPECIALITIES

SECTION 10425 – SIGNS

SECTION 10522 – FIRE EXTINGUISHERS, CABINETS AND ACCESSORIES

Provide fire extinguishers, cabinets and accessories as manufactured by J. L. Industries or equal. Provide multipurpose dry chemical type, UL rated 2A:10BC. For fire extinguisher cabinets in corridors and where indicated provide semi-recessed Model No. 1037F18-FX with Cosmic SE (2A:10BC extinguisher). Corners at cabinets to be mitered, welded and ground smooth. In mechanical rooms provide Cosmic SE and a MB808 bracket.

SECTION 10800 – TOILET AND BATH ACCESSORIES

Provide heavy duty commercial grade stainless steel toilet accessories as indicated on drawings. All to be Bobrick or approved equal.

DIVISION 11 – EQUIPMENT

DIVISION 12 – FURNISHINGS

SECTION 12511 – HORIZONTAL LOUVER BLINDS

Window treatment shall be horizontal blinds with 1" wide aluminum slats, operable by means of cords in the lifting and lowering modes, and by a wand in the tilting mode.

SECTION 12690 – FLOOR MATS

Provide non-skid walk-off mats in the vestibules. Mats shall be needleband carpeting, 18" x 18" tiles. Endurance as manufactured by Metropolitan. Total weight to be 85 oz.

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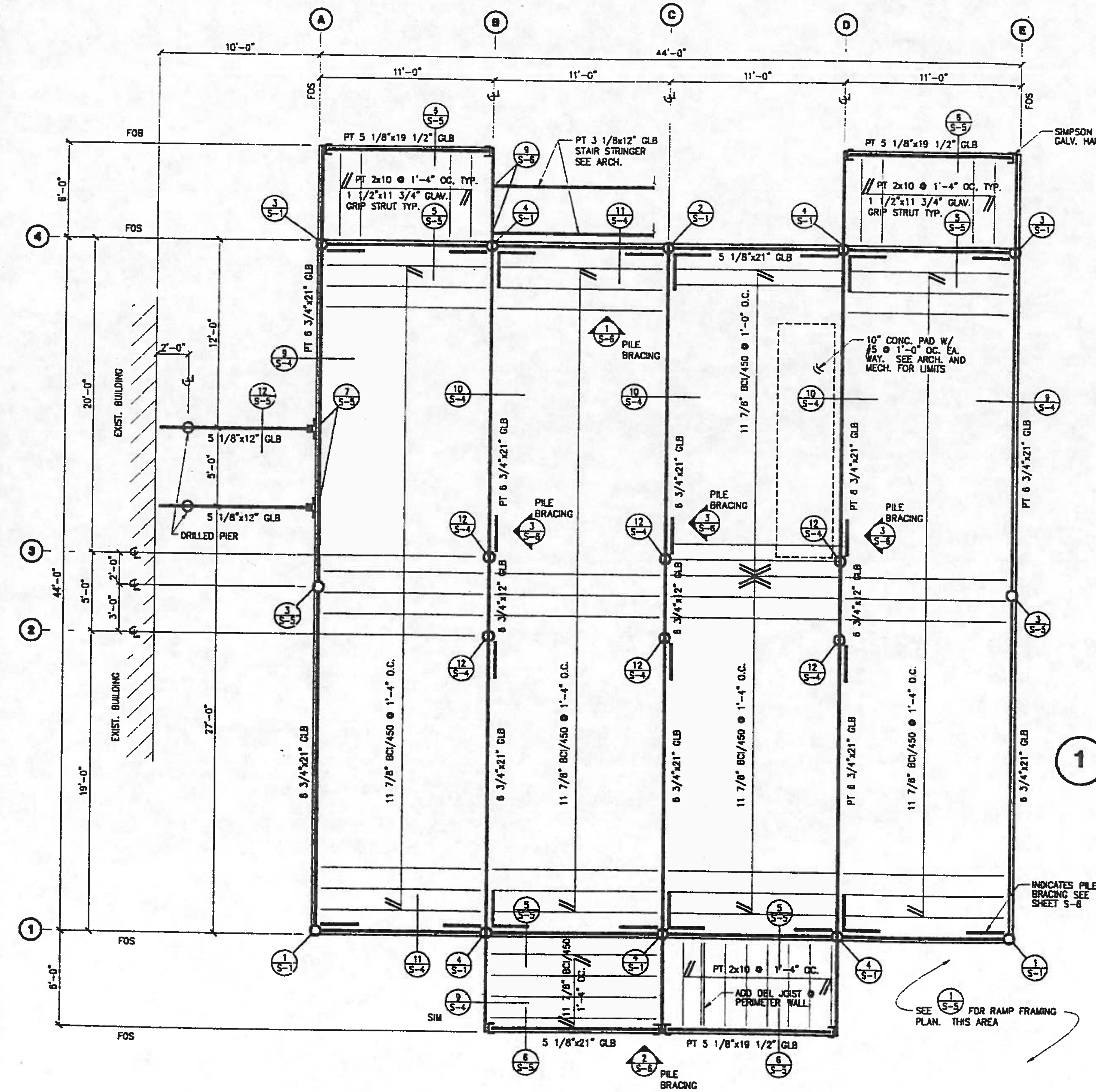
VILLAGE SAFE WATER

VILLAGE OF KONGIGANAK
LAUNDRY FACILITY
KONGIGANAK, ALASKA

DRAWN MM
CHECKED DPR
DATE 2/25/00
REVISIONS

JOB NO. 9817
DWG TYPE
SPECIFICATIONS
SHEET NO.
A8.2



FIRST FLOOR FRAMING PLAN

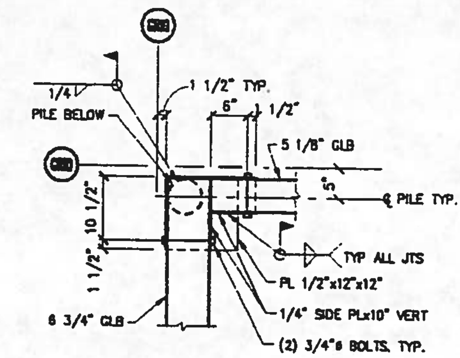
1/4" = 1'-0"

FOS - FACE OF STUD
FOB - FACE OF BEAM
PT - WOOD MEMBERS REQUIRED TO BE PRESSURE TREATED ARE INDICATED AS P.T.

PILE SCHEDULE				
PILE GRID	DEPTH EMBED. FT.	TOTAL LOAD kips	LONG TERM LOAD, kips	NOTES
A-1	25'	25.6	17.8	
A-2.5	25'	54.0	42.0	
A-4	25'	25.6	17.8	
B-1	25'	40.6	29.2	
B-2	25'	35.8	27.0	
B-3	25'	35.8	27.0	
B-4	25'	40.6	29.2	
C-1	25'	40.6	29.2	
C-2	25'	35.8	27.0	
C-3	25'	35.8	27.0	
C-4	25'	40.6	29.2	
D-1	25'	40.6	29.2	
D-2	25'	39.0	30.2	
D-3	25'	39.0	30.2	
D-4	25'	40.6	29.2	
E-1	25'	25.6	17.8	
E-2.5	25'	54.0	42.0	
E-4	25'	25.6	17.8	

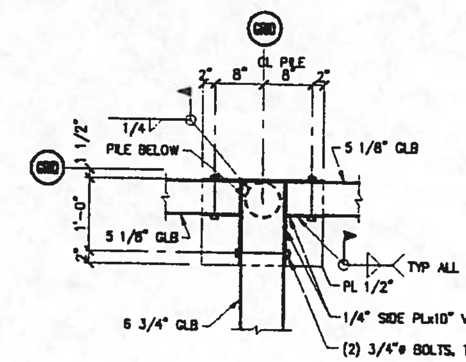
NOTE:

1. ALL PILES ARE THERMAL SYPHON PILES AS FABRICATED BY ARCTIC FOUNDATIONS, INC.
2. TOTAL LOADS ARE LOADS PER THE STRUCTURAL NOTES.
3. LONG TERM LOADS ARE TOTAL LOADS LESS SNOW LOADS.
4. SIZE PILES FOR THE LOADS SHOWN WITH CONSIDERATION FOR TOTAL STICK-UP AND A LATERAL WIND LOAD OF 1.8 KIPS ON EACH PILE.
5. CONTRACTOR SHALL VERIFY ADEQUACY OF EXISTING PILES.



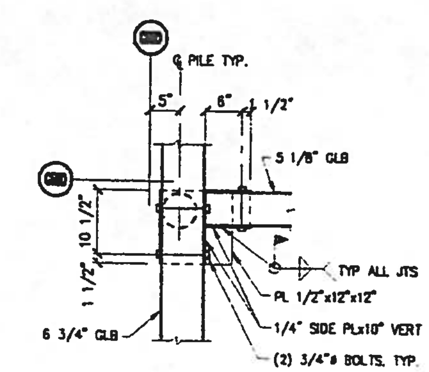
1 DETAIL

SCALE: 3/4" = 1'-0"



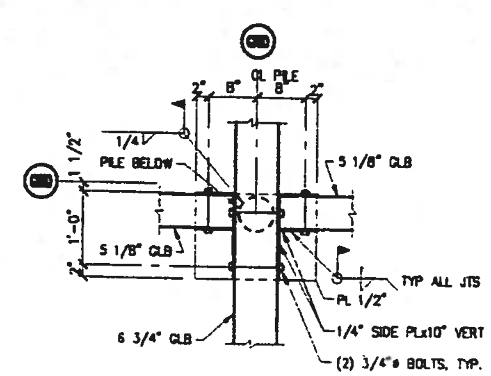
2 DETAIL

SCALE: 3/4" = 1'-0"



3 DETAIL

SCALE: 3/4" = 1'-0"



4 DETAIL

SCALE: 3/4" = 1'-0"

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Consulting Engineers

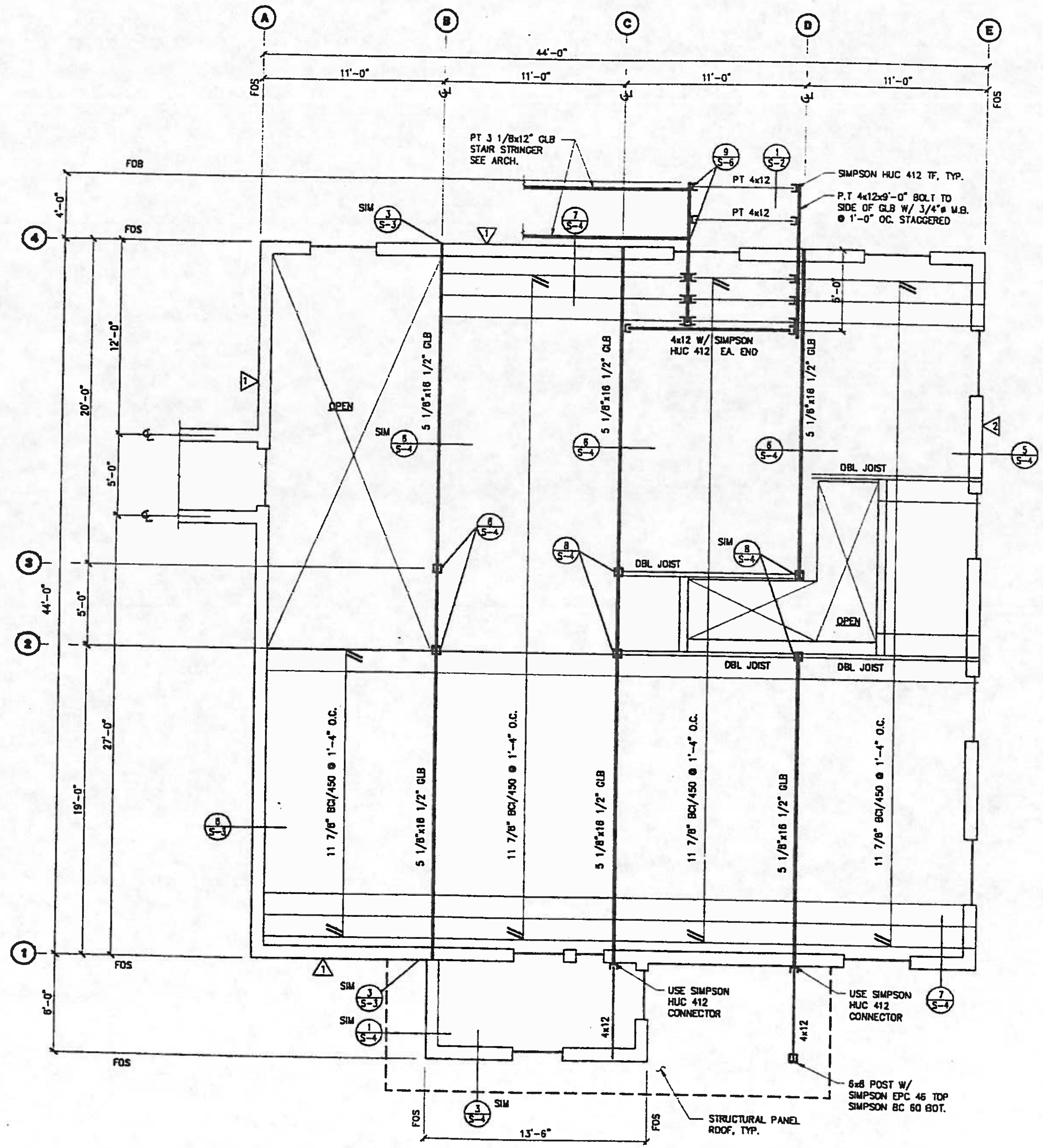
VILLAGE SAFE WATER

VILLAGE OF KONGIGANAK
LAUNDRY FACILITY
KONGIGANAK, ALASKA

drawn: BWG
checked: NF
date: 2/25/00
revisions:

job no.: 99-059
dwg. title: FIRST FLOOR FRAMING PLAN, PILE SCHEDULE & DETAILS

sheet no.: S-1



SECOND FLOOR FRAMING PLAN

1/4" = 1'-0"

NOTE:
SEE ARCHITECTURAL FOR VERTICAL DIMENSIONS AND SIZE AND LOCATION OF WALL OPENINGS.
PT - WOOD MEMBERS REQUIRED TO BE PRESSURE TREATED ARE INDICATED AS P.T.

STRUCTURAL NOTES

1. Design Criteria: (KONGIGANAK, AK)

Roof Loads		65 P.S.F. Snow
		20 P.S.F. DL
Floor Loads:	First PL	100 P.S.F. LL
	Second PL	50 P.S.F. LL
		15 P.S.F. DL
Wind UBC Exp. B (100 MPH)		24 P.S.F.
Wind uplift criteria for roof cladding: Within 4 ft. of eaves, rakes, ridges and ends of building		48 P.S.F.
Other areas		24 P.S.F.

Note: Add blocking in roof framing as required to support roof cladding wind loads.

Seismic Zone 1.
Code: 1997 U.B.C.

2. Foundation: The piles shall be standard pipe thermal syphon piles with two phase passive refrigeration as manufactured by Arctic Foundations, or equal. All piles to be embedded 25 feet following recommendations for frozen pile foundations, written by Duane Miller and Associates dated April 1, 1999. Tolerance at top of pile shall be ±1". Laterally and ± 1/8" vertically. Set pile plumb within ±1/8 per foot. Provide shop drawings for approval.

   Ramp supports are drilled piers using 3" std. steel pipe galvanized with 8" diameter helix by "Chance" or equal. Size piers for vertical of 4 kips with a horizontal load of 0.8 kips.

3. Concrete: Concrete shall be a minimum compressive strength of 3,000 psi at 28 days, measured, mixed and placed in accordance with ACI Standard 304. Slump shall be 3 inches minimum, 5 inches maximum. Concrete footings shall be reinforced with reinforcing steel complying with ASTM A-615, Grade 60. All steel shall be detailed, fabricated and placed in accordance with ACI 318-83 and ACI 315-89. All splices shall be lapped 30 diameters. All concrete to have 4% air +/- 1%. Provide corner bars to match horizontal reinforcing at all wall and footing corners and joints.

4. Structural Grade Lumber: Structural grade Lumber shall comply with the National Lumber Manufacturers Association "National Specifications for Stress Grade Lumber". Lumber shall be Hem-Fir, No. 2 or better unless otherwise noted. All lumber exposed to weather or in contact with soil, masonry, or concrete shall be pressure treated with an approved wood preservative. All nailing to be per U.B.C. Table 23-I-Q unless otherwise shown. <u>All fasteners exposed to the weather and all anchor bolts shall be galvanized.</u>

5. Plywood panels shall be stamped with APA Grade Trademark of the American Plywood Association and shall meet U.S. Product Standards P.S. 1-83. All plywood shall have exterior glue.

   Roof sheathing shall be APA 5/8 inch CD, Exposure 1, Panel Identification Index 40/20. Install face grain perpendicular to supports. Stagger end panel joints. Nail at 6 inch c-c all supported panel edges; 4 inches c-c to blocking over walls; and at 12 inch c-c at intermediate supports unless otherwise noted on the drawings. All nails shall be 10d common nails. Block all plywood joints within 8'-0" of perimeter walls.

   Wall sheathing shall be APA 15/32 inch CD, Exposure 1, Panel Identification Index 24/0. All panel edges to be supported on 2 inch nominal framing. Refer to shear wall schedule for nailing requirement for all walls marked with a shear wall type. Other plywood wall sheathing shall be nailed with 10d nails at 6 inch c-c all panel edges and 12 inch c-c at intermediate supports.

   Floor sheathing shall be APA 3/4 inch T&G, Exposure 1, Panel Identification Index 48/24. Install face grain perpendicular to supports. Stagger end panel joints. Nail at 6 inch c-c all supported panel edges unless otherwise noted on the drawings, and at 12 inch c-c at intermediate supports. All nails shall be 10d common nails. All panels shall be glued to supports with an adhesive which conforms to American Plywood Association Specification AFG-01.

6. Glued Laminated Timbers: Glued laminated timbers shall comply with ANSI/AITC A190.1. Combinations shall be Fb = 2,400 psi. (24FV5) Shipping protection shall conform to AITC Standard 111. Camber shall be 1-1/2 times dead load deflection. Provide shop drawings for approval.

7. All joists shall be of the size, type and spacing indicated on the drawings and manufactured by Trus-Joist, Boise-Cascade, or equal. Provide bridging as per manufacturer.

8. Structural panel indicates a prefabricated insulated structural panel system provided in accordance with the specifications and designed to resist the loads under design criteria above including panel connections. Minimum panel requirements:

   top skin: 5/8" CD exp. 1 plywood
   bot. skin: 15/32 CD exp. 1 plywood

   All fasteners shall be per manufacturer to resist a minimum of 48 psf wind uplift and 200 plf diaphragm shear. Attach each panel to each support with #14 screws at 1'-0" oc. Provide a minimum of 2" penetration into the supporting member. Provide shop drawings for approval.

9. Pressure treated wood: Wood members indicated as P.T. on the framing plans is exposed to the weather and shall be pressure treated.

10. Structural steel shall be detailed, fabricated, and erected in accordance with the American Institute of Steel Construction "AISC Manual", 9th edition. structural steel shall conform to ASTM A-36. Bolts shall be A307. All welds to be 3/16" minimum by certified welders using electrodes conforming to ASTM A-233, class E-70. Apply one coat of primer paint complying with FS TT-P-615, type II to all metal work except those to be field welded or galvanized. Hot dip galvanized all connections and bolts exposed to weather. Provide shop drawings with details for approval. All field welds shall be cleaned and painted with two coats of zinc rich paint.

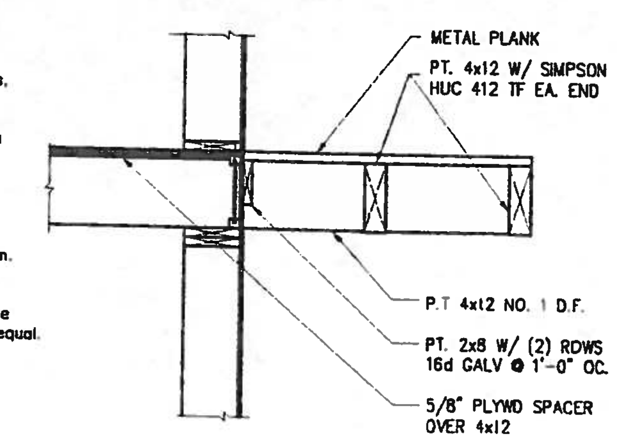
11. Shop Drawings: The Contractor shall review, stamp with his approval, date and sign all shop drawings required by the contract drawings prior to submittal to the Engineer. At the time of submission, the Contractor shall inform the Engineer in writing of any deviation in the shop drawings from the requirements of the contract drawings.

SHEAR WALL SCHEDULE

MARK	SHEATHING	FASTENER	BOT PL FASTENER
1	15/32 CDX	10d @ 6" O.C.	16d @ 8" O.C.
2	15/32 CDX	10d @ 4" O.C.	16d @ 8" O.C.

GENERAL NOTES FRAMING PLANS

1. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE SHOWN.
2. ALL HEADERS UP TO 6'-0" SPAN ARE (2) 2 X 10. PROVIDE (1) BEARING STUD AND (1) THROUGH STUD SPANS LESS THAN 4'-0". PROVIDE (2) BEARING STUDS AND (2) THROUGH STUD SPANS 4'-0" TO 8'-0" UNLESS OTHERWISE SHOWN.



1 DETAIL

SCALE: 3/4" = 1'-0"

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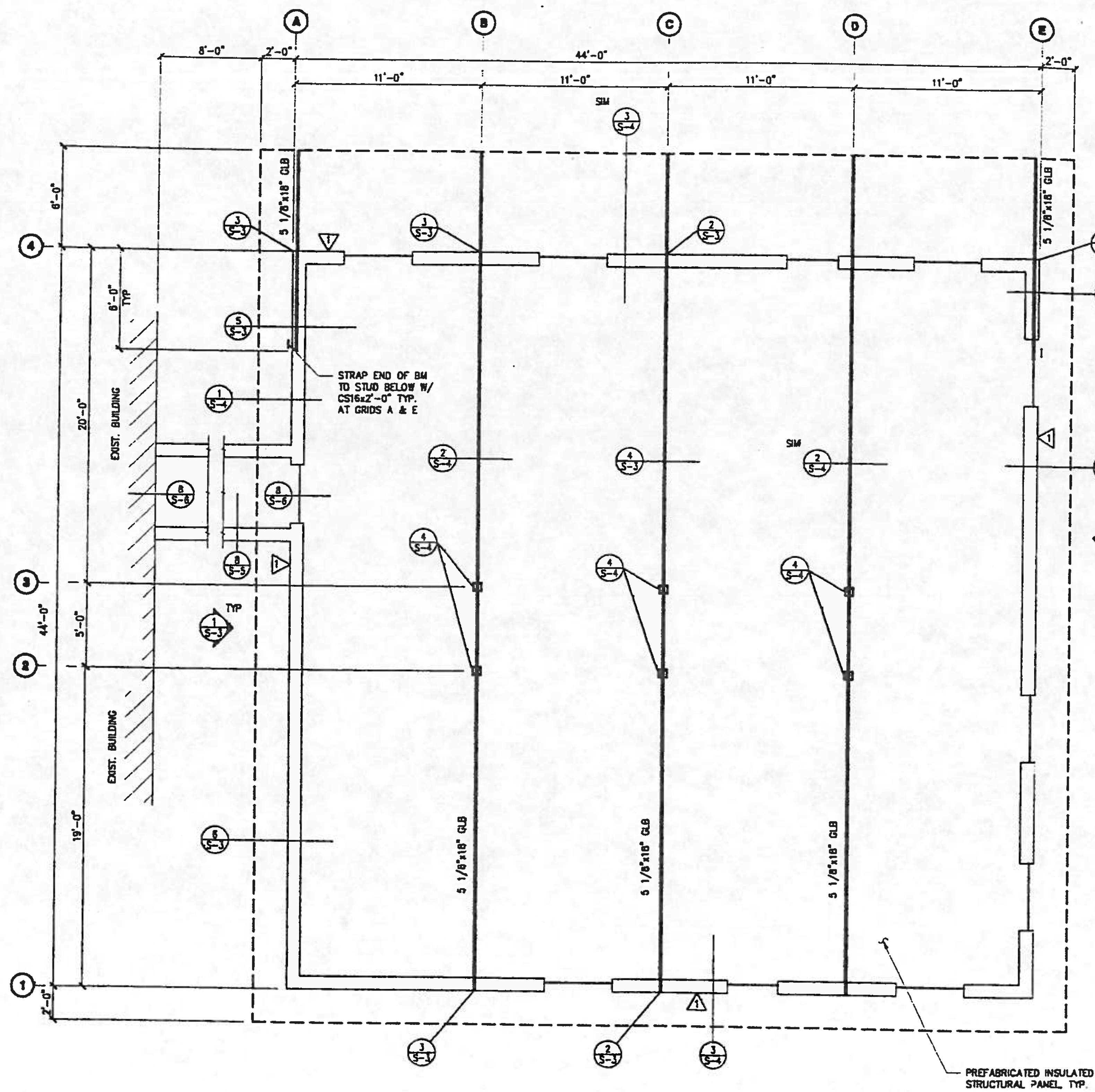
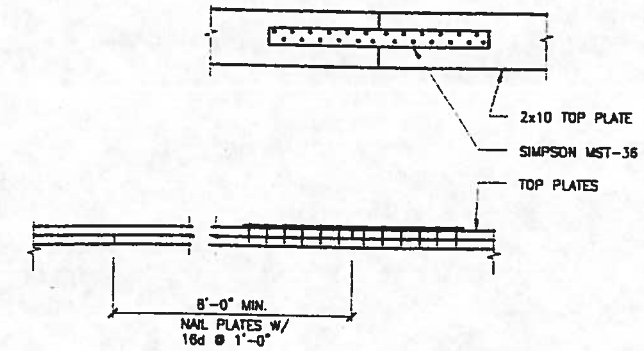
VILLAGE OF KONGIGANAK
LAUNDRY FACILITY
KONGIGANAK, ALASKA

drawn: BMC
checked: NF
date: 2/25/00
job no.: 99-059
dwg title: SECOND FLOOR FRAMING PLAN & GENERAL NOTES
sheet no.: S-2

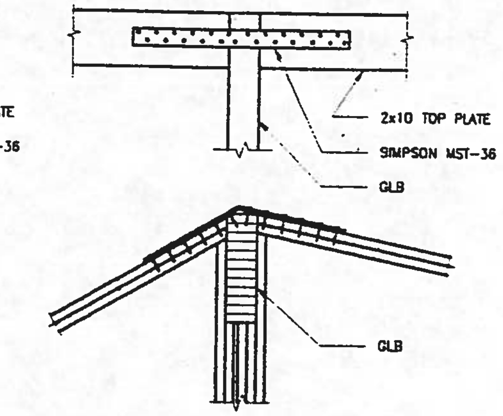


ROOF FRAMING PLAN

1/4" = 1'-0"



1 DETAIL SCALE: 3/4" = 1'-0"



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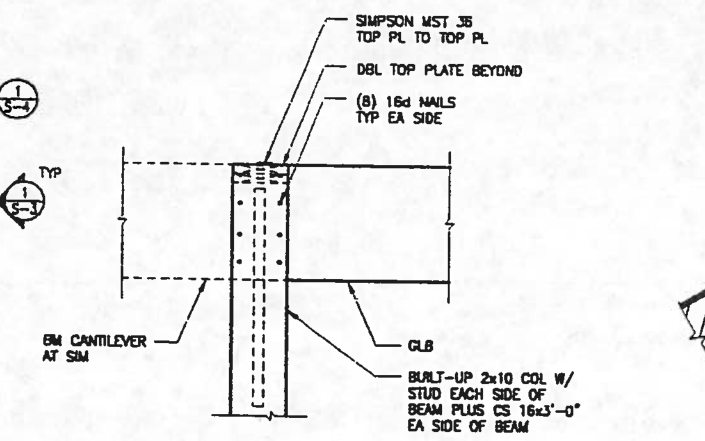

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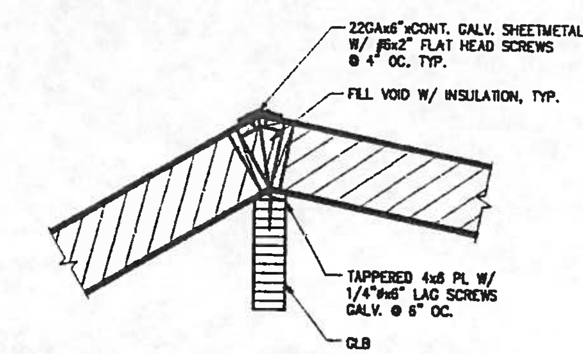
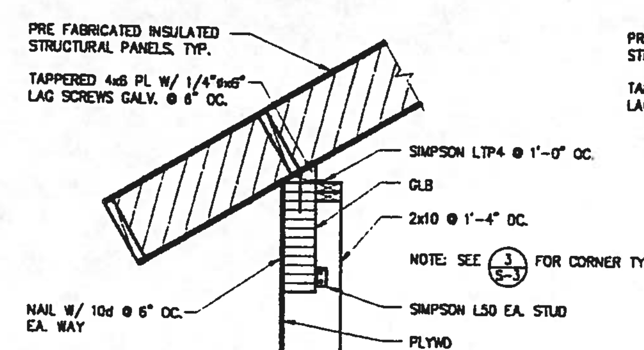
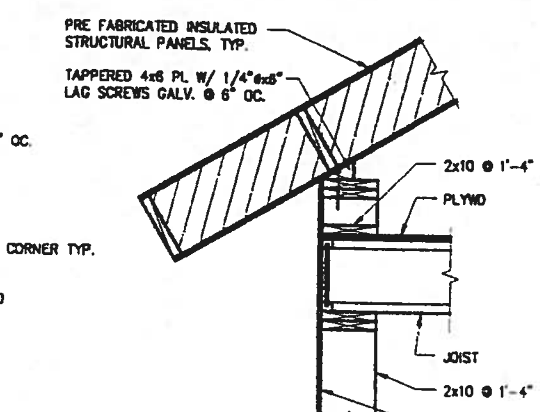


4 DETAIL SCALE: 3/4" = 1'-0"



5 DETAIL SCALE: 3/4" = 1'-0"



6 DETAIL SCALE: 3/4" = 1'-0"

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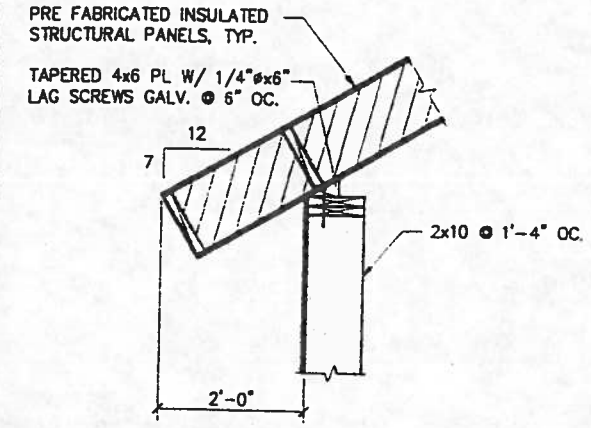
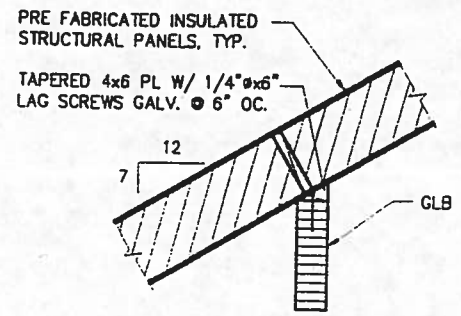
drawn	BWS
checked	NF
date	2/25/00
revisions	
job no.	99-059
sheet title	ROOF FRAMING PLAN & DETAILS
sheet no.	S-3



NOTE:
SLOPE VARIES, SEE ARCH.

1 DETAIL

SCALE: 3/4" = 1'-0"



NOTE:
SLOPE VARIES, SEE ARCH.

2 DETAIL

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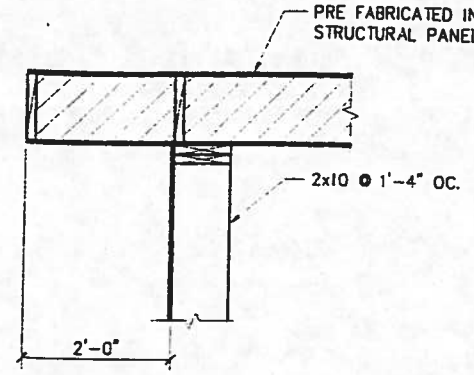

3 DETAIL

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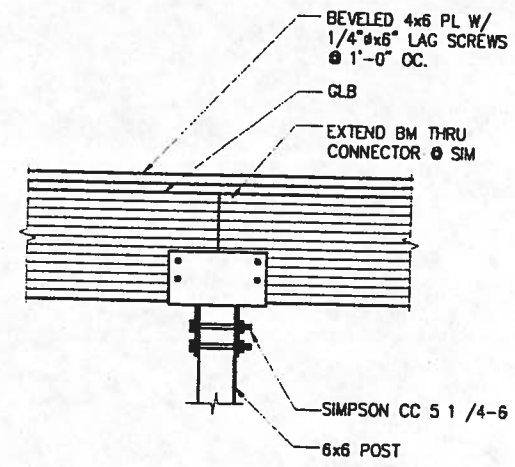
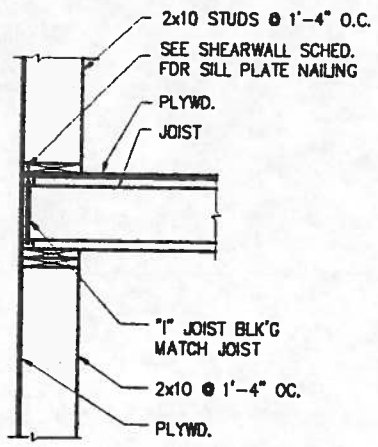


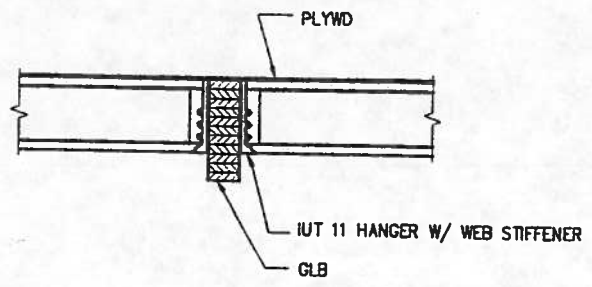
4 DETAIL

SCALE: 3/4" = 1'-0"



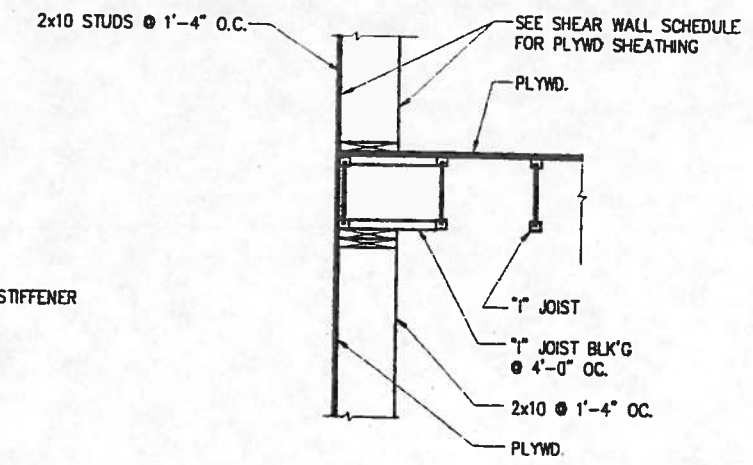
5 DETAIL

SCALE: 3/4" = 1'-0"



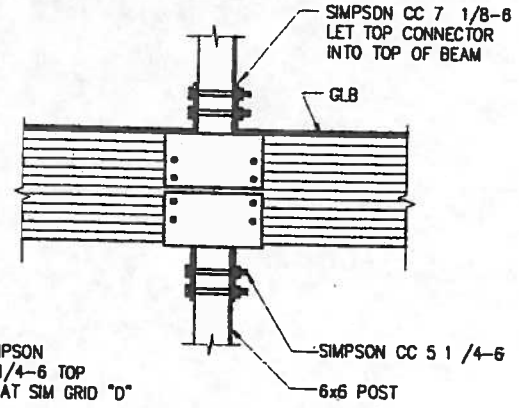
6 DETAIL

SCALE: 3/4" = 1'-0"



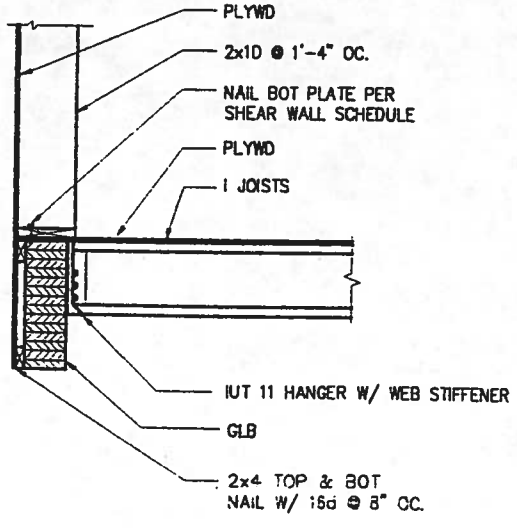
7 DETAIL

SCALE: 3/4" = 1'-0"



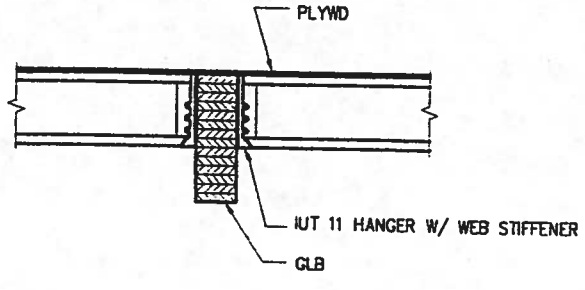
8 DETAIL

SCALE: 3/4" = 1'-0"



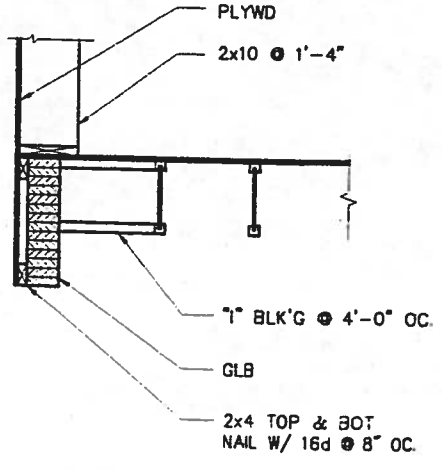
9 DETAIL

SCALE: 3/4" = 1'-0"



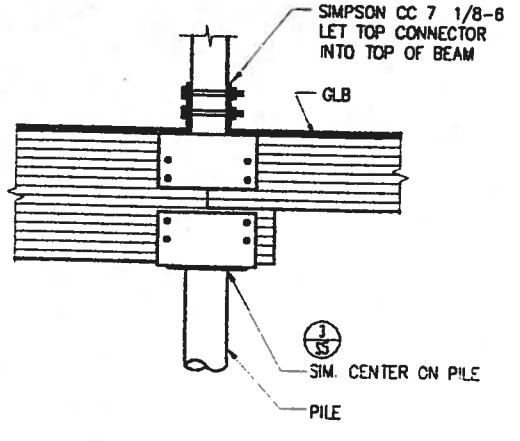
10 DETAIL

SCALE: 3/4" = 1'-0"



11 DETAIL

SCALE: 3/4" = 1'-0"



12 DETAIL

SCALE: 3/4" = 1'-0"

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DETAILS

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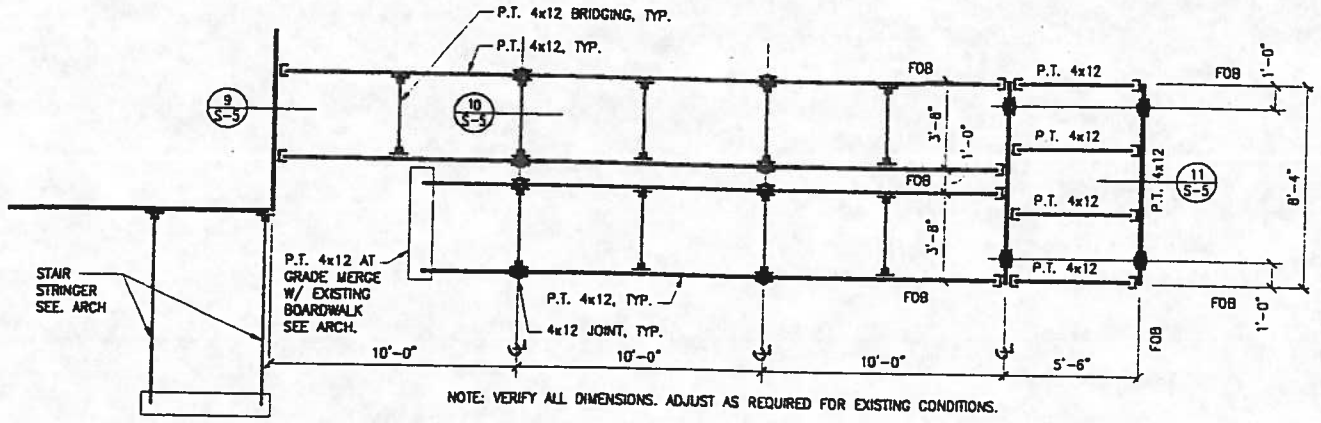
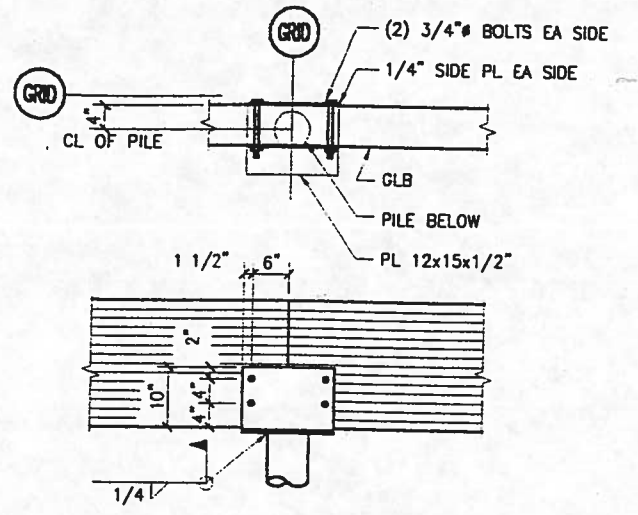


NOTE: VERIFY ALL DIMENSIONS. ADJUST AS REQUIRED FOR EXISTING CONDITIONS.

1 RAMP FRAMING PLAN

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

NOTE: 2 NOT USED.



3 DETAIL

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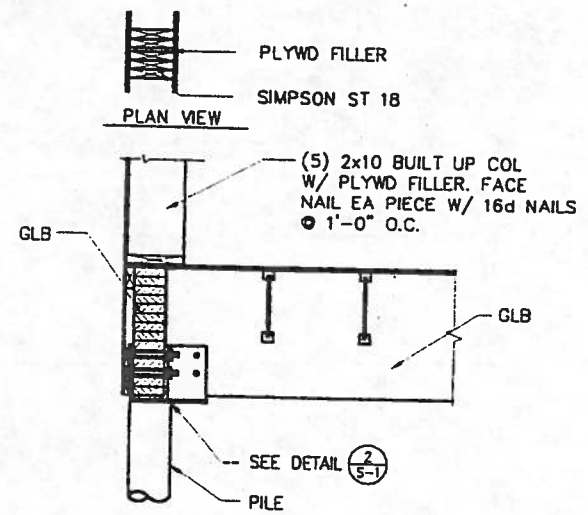
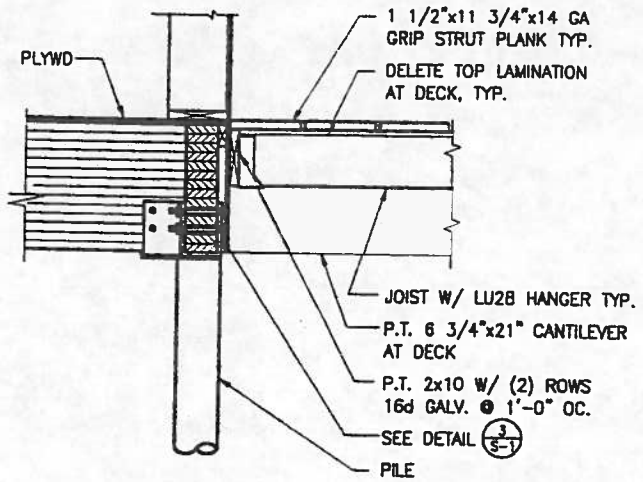


4 DETAIL

SCALE: 3/4" = 1'-0"



5 DETAIL

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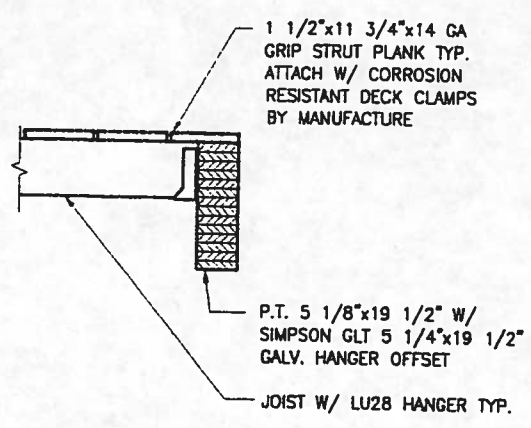
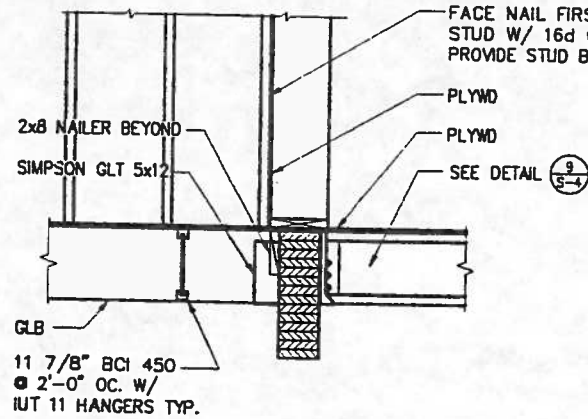


6 DETAIL

SCALE: 3/4" = 1'-0"



7 DETAIL

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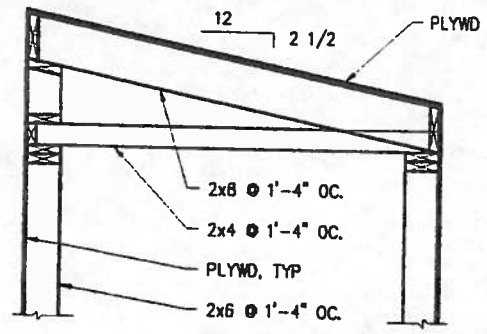
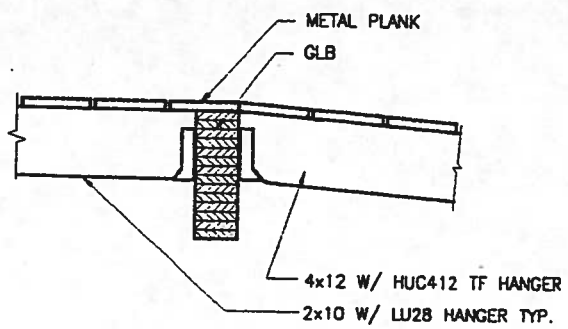


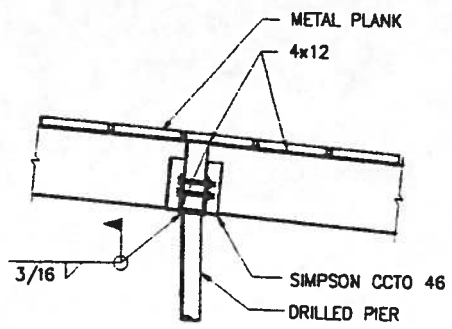
8 DETAIL

SCALE: 3/4" = 1'-0"



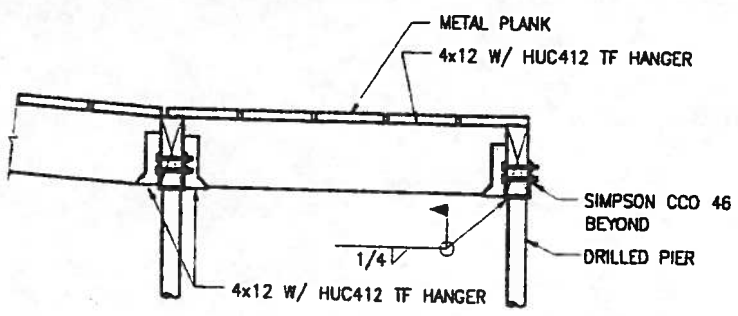
9 DETAIL

SCALE: 3/4" = 1'-0"



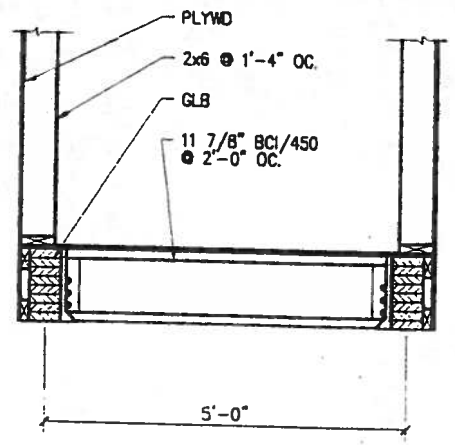
10 DETAIL

SCALE: 3/4" = 1'-0"



11 DETAIL

SCALE: 3/4" = 1'-0"



12 DETAIL

SCALE: 3/4" = 1'-0"

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KONGIGANAK, ALASKA

DETAILS

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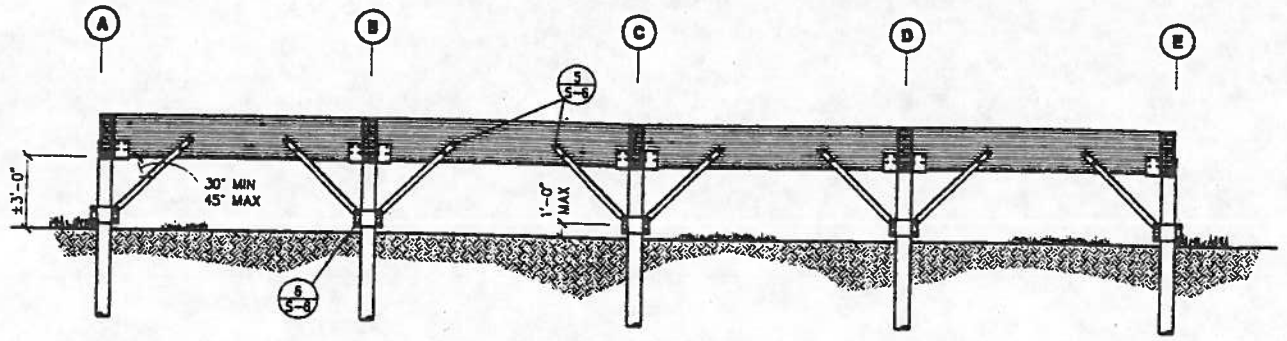
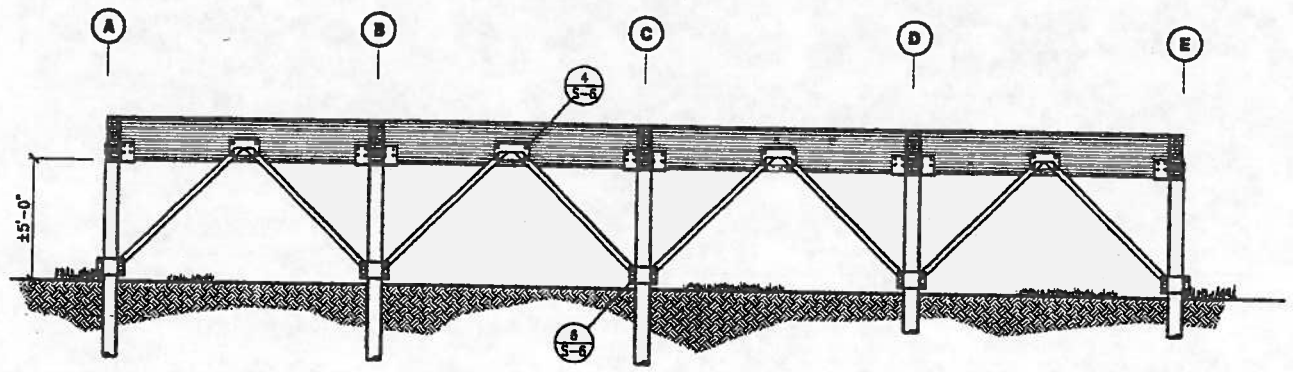


NOTE:
PILE BRACING LENGTHS REQUIRED WILL VERY DEPENDING ON FINISH GRADE.
AS-BUILT EXISTING CONDITIONS AND ADJUST AS REQUIRED.
BEND END LEGS OF BRACE AS REQUIRED TO BOLT TO INSIDE FACE OF BEAM, TYP.

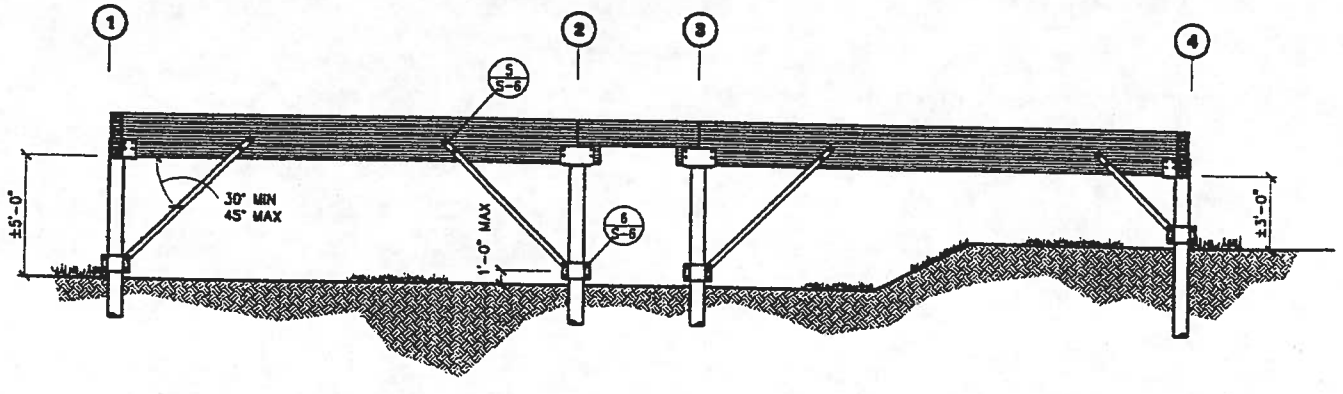
1 BRACING DETAIL GRID (4)

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



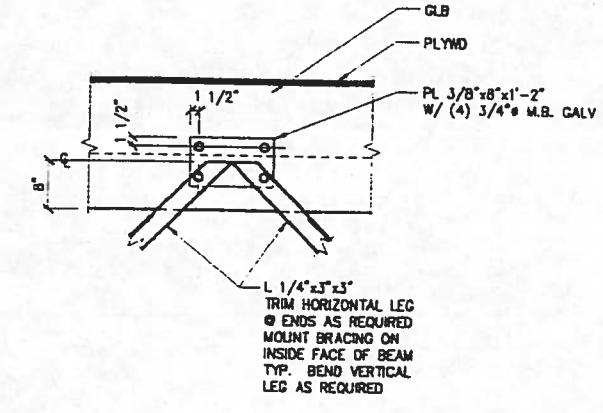
2 BRACING DETAIL GRID (1)

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



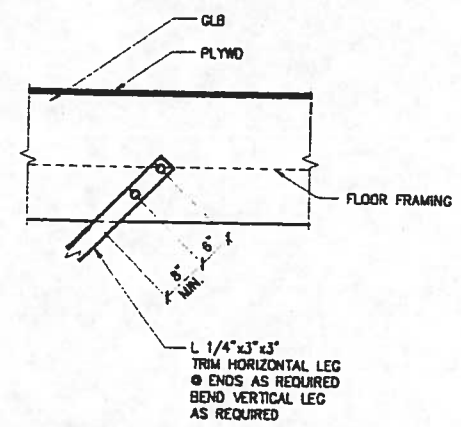
3 BRACING DETAIL GRIDS (B), (C) & (D)

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



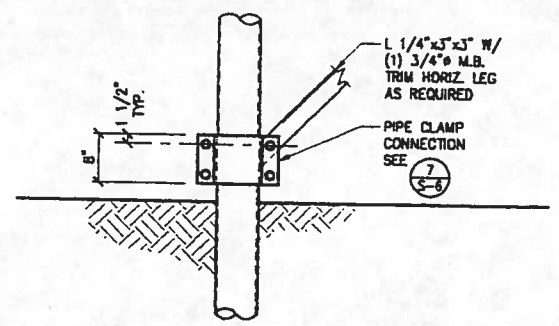
4 DETAIL

SCALE: 3/4" = 1'-0"



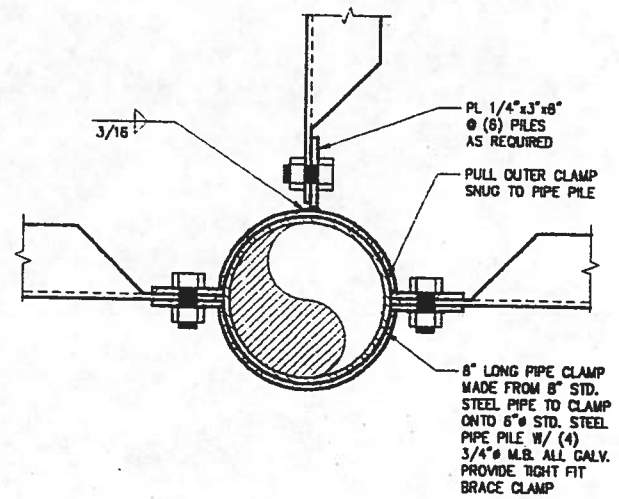
5 DETAIL

SCALE: 3/4" = 1'-0"



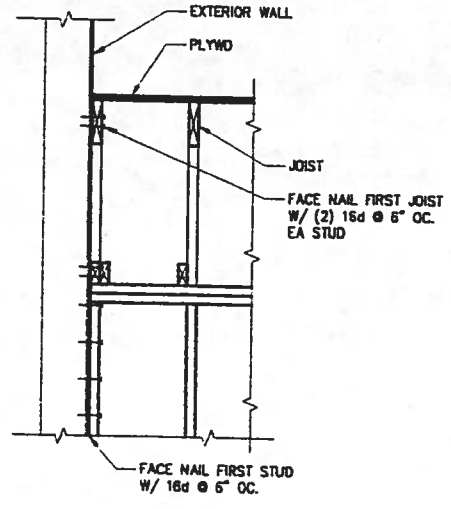
6 DETAIL

SCALE: 3/4" = 1'-0"



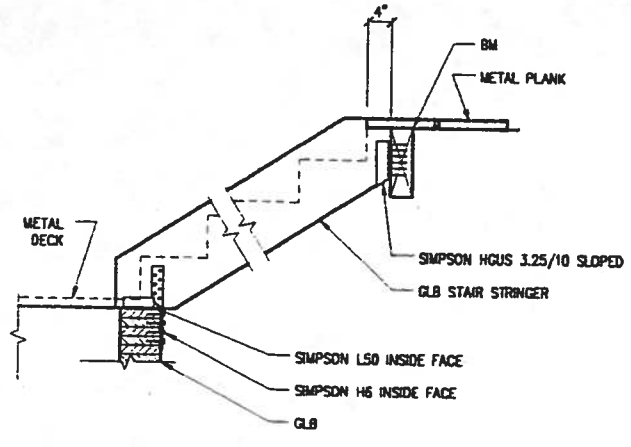
7 DETAIL

SCALE: 3" = 1'-0"



8 DETAIL

SCALE: 3/4" = 1'-0"



NOTE:
SEE ARCH FOR
STAIR CONFIGURATION

9 DETAIL

SCALE: 3/4" = 1'-0"

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ABBREVIATIONS

CIRC	CIRCULATION
CUH	CABINET UNIT HEATER
CW	DOMESTIC COLD WATER SUPPLY
EGT	ENTERING GLYCOL TEMPERATURE
FCO	FLOOR CLEANOUT
FLA	FULL LOAD AMPERES
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
GTR	GLYCOL TRACING RETURN
GTS	GLYCOL TRACING SUPPLY
HE	HEAT EXCHANGER
HGR	HEATING GLYCOL RETURN
HGS	HEATING GLYCOL SUPPLY
HP	HORSEPOWER
HW	HOT WATER (LAUNDRY)
HWR	HEATING WATER RETURN (DRYERS)
HWS	HEATING WATER SUPPLY (DRYERS)
PG	PROPYLENE GLYCOL
PH	PHASE
RA	RETURN AIR
SA	SUPPLY AIR
TEMP	TEMPERATURE
TW	DOMESTIC HOT WATER (TEMPERED 110 F)
TWR	TEMPERED WATER RECIRCULATION
TYP	TYPICAL
UH	UNIT HEATER
V / VAC	AC VOLTS
WCO	WALL CLEANOUT
WH	WATER HEATER

SYMBOL LEGEND

- AIR RELEASE VALVE
- BALANCING VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- CIRCULATION PUMP
- FIRE-SHUTOFF, FUSIBLE LINK GATE VALVE
- FLOW METER
- FLOW SWITCH
- GATE VALVE
- HOSE BIBB
- MOTOR OPERATOR
- PRESSURE GAUGE
- PRESSURE RELIEF VALVE
- PRESSURE SWITCH
- SIGHT FLOW INDICATOR
- SIGHT FLOW INDICATOR - ROTOMETER TYPE
- SOLENOID VALVE OPERATOR
- TEMPERATURE CONTROLLER
- TEMPERATURE SWITCH
- THERMOMETER
- THERMOSTAT
- THREE-WAY VALVE
- UNION
- UNIT HEATER

PIPING AND INSULATION MATERIALS

WATER PIPING & INSULATION - TYPE L COPPER W/ SOLDER JOINTS. USE LEAD FREE SOLDER. INSULATE W/ 1/2" THICK SCHULLER MICRO-LOK FIBERGLASS W/AP JACKET.

HEATING PIPING & INSULATION - TYPE L COPPER W/ SOLDER JOINTS. USE LEAD FREE SOLDER. INSULATE W/ SCHULLER MICRO-LOK FIBERGLASS W/AP JACKET. INSULATION THICKNESSES: 1" UP TO 2" PIPE, 1-1/2" FOR 2-1/2" AND LARGER PIPE.

DWV PIPING - ABS DWV PLASTIC PIPE WITH SOCKET FITTINGS AND SOLVENT WELDED JOINTS. INSULATE VENTS PENETRATING ROOF WITH 1-1/2" SCHULLER MICRO-LOK FIBERGLASS W/AP JACKET WITHIN 3' OF PENETRATION.

DUCT INSULATION - INSULATE OUTSIDE AIR INTAKE DUCTS WITH 3 LB/SF DENSITY FOIL FACED FIBERGLASS INSULATION, SCHULLER "SPIN-GLAS" TYPE 814. INSULATE DRYER SUPPLY AIR DUCTS BETWEEN HV-1 AND HEAT EXCHANGER AND ALL EXHAUST DUCTS WITHIN 3' OF EXTERIOR WALL OR ROOF W/ 2" THICK FOIL FACED FLEXIBLE FIBERGLASS DUCT WRAP INSULATION, SCHULLER "MICROLITE" TYPE 100.

APPLIANCES

TAG	CAPACITY (DRY)	ELECTRICAL VOLT/PH	ELECTRICAL FLA/HP	MANUFACTURER/MODEL/REMARKS
WASHER-1	35 POUNDS	208/3	7 A	SPEED QUEEN SC-35 WASHER-EXTRACTOR OR EQUAL
WASHER-2	27 POUNDS	208/3	7 A	SPEED QUEEN SC-27 WASHER-EXTRACTOR OR EQUAL
WASHER-3	18 POUNDS	208/3	5 A	SPEED QUEEN SC-18 WASHER-EXTRACTOR OR EQUAL
DRYER	35 POUNDS	120/1	1/2 HP	HOYT WINDSER I HOT WATER DRYING TUMBLER. RELOCATE 4 FROM EXISTING FACILITY

NOTE: PROVIDE ALL APPLIANCES WITH COIN SLIDES AND ELECTROMECHANICAL CONTROLS

EQUIPMENT SCHEDULES

BOILERS & WATER HEATERS

TAG	SERVICE	INPUT GPH FUEL OIL	OUTPUT BTUH	BURNER ELECTRICAL	MANUFACTURER/MODEL/REMARKS
B-1/B-2	BUILDING HEATING	2.05	217,000	1/3 HP 120V/1PH	WEIL-MCLAIN MODEL B-WGO-7 W/BURNER, OPERATING TEMPERATURE CONTROL, HIGH TEMP LIMIT CONTROL, AND LOW WATER CUTOFF
WH-1	DOMESTIC WATER HEATING	1.5	199,900	1/8 HP 120V/1PH	BOCK MODEL 241ES, 100 GAL ASME STORAGE TANK, 181 GPH RECOVERY @ 100°F RISE

PUMPS

TAG	SERVICE	FLOW GPM	HEAD FEET	MOTOR	ELECT	MANUFACTURER/MODEL/REMARKS
CP-1A & B	BUILDING HEATING	25	15	1/2 HP	120V/1PH	GRUNDFOS UPS 32-80 SPEED 2
CP-2A & B	DRYER MAKE-UP AIR	13	15	1/12 HP	120V/1PH	GRUNDFOS UP 26-64F
CP-3	DOMESTIC HOT WATER RECIRCULATION	2	10	1/25 HP	120V/1PH	GRUNDFOS UP 15-18B5
CP-4 - 9	DRYER COIL	11	14	1/12 HP	120V/1PH	GRUNDFOS UP 26-64F (RELOCATE 4 FROM EXISTING FACILITY)
-	-	-	-	-	-	-
-	-	-	-	-	-	-

FANS

TAG	SERVICE	CAPACITY CFM	STATIC PRESSURE	MOTOR ELECTRICAL	MANUFACTURER/MODEL/REMARKS
HV-1	DRYER MAKE-UP AIR	3900	1" WC	2 HP 208V/3PH	PACE A12 WITH FILTER AND HEATING COIL (HC-1), ABB MODEL ACS 143-2K7-1 VFD SPEED CONTROL
EF-1 THRU EF-5	SHOWER/TOILET	55	1/4" WC	48 W 120V/1PH	PENN ZEPHYRETTE MODEL ZT CEILING FAN W/BACKDRAFT DAMPER AND SPEED CONTROL
EF-6	DRYER EXHAUST	3900	5/8" WC	1-1/2 HP 208V/3PH	ACME CENTRILINE SIZE 2118 IN-LINE AIRFOIL FAN, ABB MODEL ACS 143-2K7-1 VFD SPEED CONTROL

HEATING COILS

TAG	SERVICE	CAPACITY BTUH	GLYCOL T IN	GLYCOL T OUT	GLYCOL FLOW	GLYCOL DP FT	AIR T IN	AIR T OUT	AIR FLOW	AIR DP "WC	AIR FACE VEL (FPM)	COIL SIZE LEN X HGT (IN)
HC-1	DRYER MAKE-UP AIR	289,000	190 F	138°F	12.5GPM	3.3	-28°F	35°F	3900 CFM	.36	841	28 x 25.5
MODEL	PACE 82HG-25.5x28-A-4/8											

UNIT HEATERS

TAG	SERVICE	CAPACITY BTUH	FLOW GPM	EGT (50% PG)	CFM	MOTOR	MANUFACTURER/MODEL/REMARKS
CUH-1 & CUH-2	LAUNDRY	21,500 (HIGH FAN)	2	190 °F	330	1/20 HP 120V/1PH	MODINE MODEL CW SIZE 3 - ARRANGEMENT 98 INVERTED AIR FLOW WALL MTD CABINET UNIT HEATER
UH-1	MECHANICAL ROOM	13600	1.6	190 °F	370	1/25 HP 120V/1PH	MODINE MODEL HS-24 - HORIZONTAL PROPELLER TYPE

BASEBOARD HEATERS

TAG	MANUFACTURER/MODEL	CAPACITY BTUH/FT	FLOW GPM	AGT (50% PG)	TUBE SIZE	MATERIAL	FINS/FT	REMARKS
BB-1	MODINE MODEL SP-8, SLOPE TOP TRIMFIN	570	2.5	180 °F	3/4"	COPPER	50	3-1/4 X 2-3/4 ALUMINUM FINS SINGLE ELEMENT W/ LOW PROFILE COVER

RADIANT PANEL HEATERS

TAG	MANUFACTURER/MODEL	PERIMETER BTUH/PNL	INTERIOR BTUH/PNL	FLOW GPM	AGT (50% PG)	CONN SIZE	MATERIAL	REMARKS
RP	AIRTEX MODEL HPH 2448 (2' x 4')	1680	1265	1	180 °F	1/2"	ALUMINUM	WITH ASF SURFACE MOUNT FRAME
RP	AIRTEX MODEL HPH 2424 (2' x 2')	840	632	1	180 °F	1/2"	ALUMINUM	WITH ASF SURFACE MOUNT FRAME

PLUMBING FIXTURES

TAG	DESCRIPTION	CONNECTION SIZE W	V	CW	HW/THW	MANUFACTURER/MODEL/REMARKS
WC	WATER CLOSET, FLOOR MTD	3	2	1/2	-	AMERICAN STANDARD CADET II 2174.139 W/ELONGATED BOWL, OPEN FRONT SEAT
LAV-1	LAVATORY, WALL MOUNTED	2	2	1/2	1/2	AMERICAN STANDARD DECLYN 0321.075 W/DELTA MDL 501 FAUCET & GRID STRAINER, CONCEALED CARRIER ARMS
LAV-2	LAVATORY, COUNTERTOP	2	2	1/2	1/2	AMERICAN STANDARD AQUALYN 0476.028 W/DELTA MDL 501 FAUCET & GRID STRAINER
SH-1	SHOWER	2	2	1/2	1/2	DELTA MODEL 623 PRESSURE BALANCED FAUCET W/SHOWER HEAD, FD-1 AS BELOW
SH-2	SHOWER, HANDICAPPED	2	2	1/2	1/2	DELTA MODEL 623 PRESSURE BALANCED FAUCET W/RP7245 HAND SHOWER, FD-1 AS BELOW
DF	DRINKING FOUNTAIN	2	1-1/2	1/2	-	HAWS MODEL 1175 ADA COMPLIANT FOUNTAIN W/CONCEALED WALL SUPPORT
SK-1	SINK	2	1-1/2	1/2	1/2	ELKAY LR-1918 STNLS STEEL W/DELTA MDL 300 FAUCET & SPRAY HOSE
SB	SERVICE BASIN	3	2	1/2	1/2	FIAT MSB-3624 MOP BASIN W/NO-830-AA FAUCET & DOME STRAINER
FD-1	FLOOR DRAIN	2	2	-	-	JR SMITH FIG DX2010 W/5" ROUND CHROME PLATED STRAINER, WIDE FLANGE
FD-2	FLOOR DRAIN	2	2	-	-	JR SMITH FIG 205-F38 W/9" ROUND STRAINER W/ EXTENDED RIM (MTD FLUSH W/FLOOR)

NOTES: PROVIDE BRASS P-TRAP WITH CLEANOUT PLUG FOR FIXTURES LAV-1, LAV-2, DF-1.
PROVIDE ADA INSULATION COVERS FOR LAV-1 TRAPS & SUPPLIES.
PROVIDE LOOSE KEY/LOCK SHIELD TYPE SUPPLY STOPS, CHICAGO NO. 1017 OR EQUAL.

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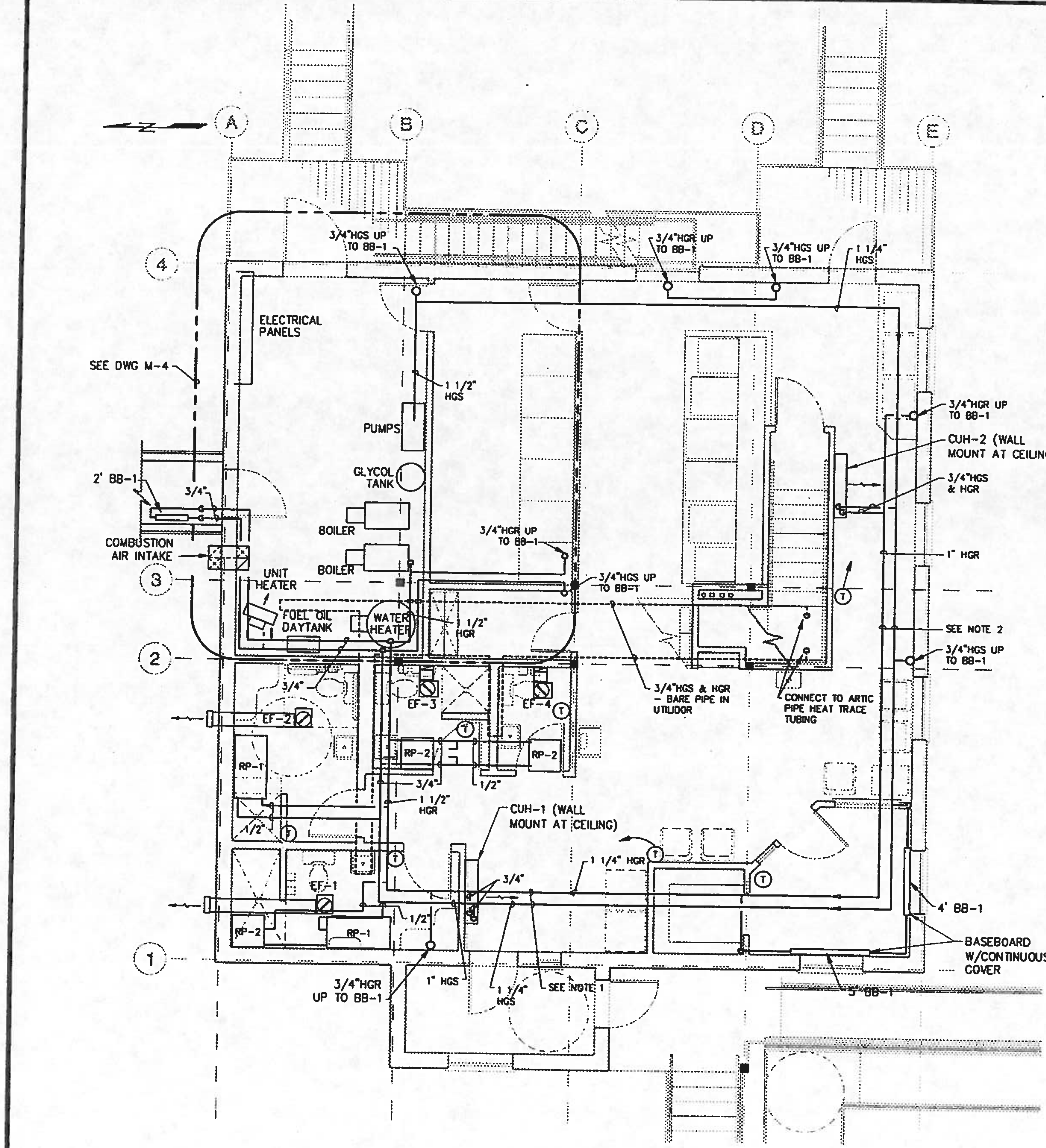
VILLAGE SAFE WATER

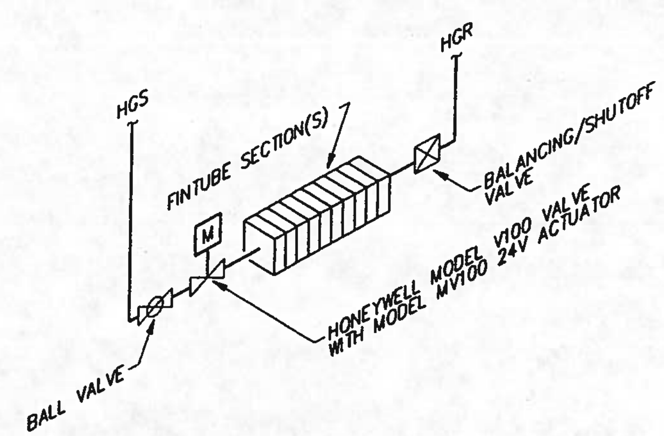
VILLAGE OF KONGIGANAK
LAUNDRY FACILITY
KONGIGANAK, ALASKA

drawn: ATN
checked: KEH
date: 2/25/00
revisions:
job no.: MWAKNCZ
dwg. title: MECHANICAL SCHEDULES & LEGEND
sheet no.: M1

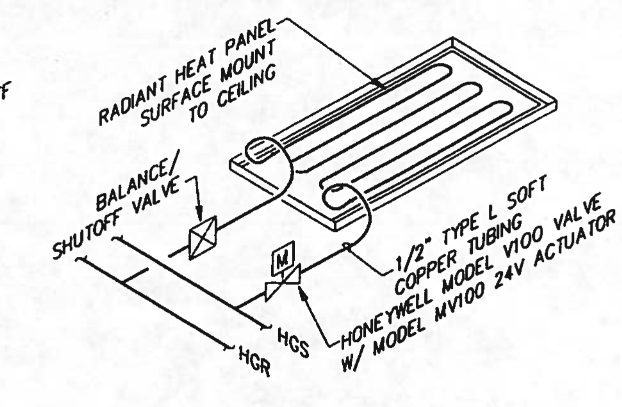
NOTES:
1. ROUTE PIPING THROUGH SECOND FLOOR BEAMS AT MIDDLE 1/3 OF BEAM. USE MINIMUM SIZE HOLE ALLOWING FREE MOVEMENT.
2. ROUTE PIPING THROUGH FLOOR JOISTS WITHIN WEB. USE MINIMUM SIZE HOLE ALLOWING FREE MOVEMENT.



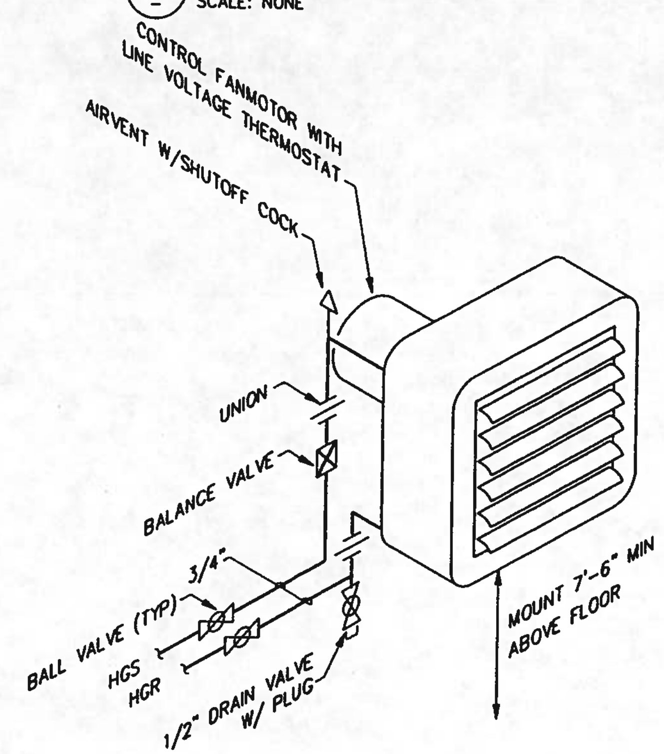
MECHANICAL PLAN



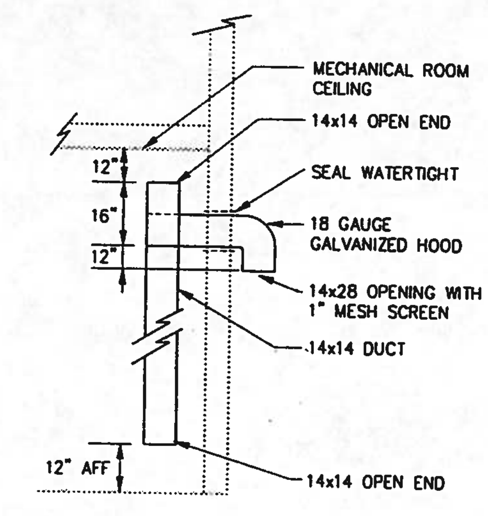
1 BASEBOARD HEATING PIPING
SCALE: NONE



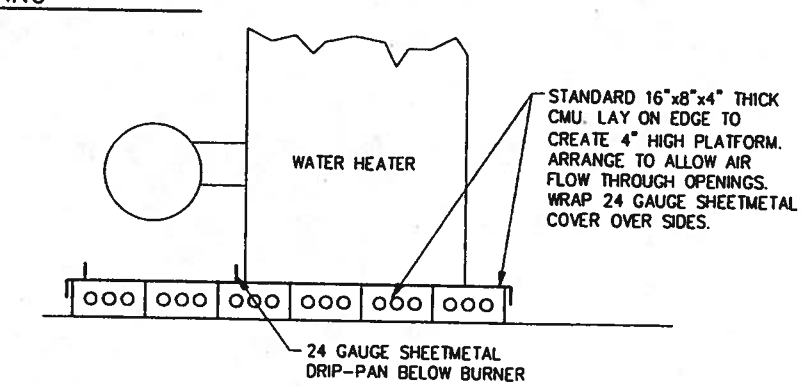
3 RADIANT PANEL HEATING PIPING
SCALE: NONE



2 UNIT HEATER PIPING
SCALE: NONE



4 COMBUSTION AIR INTAKE
SCALE: NONE



5 WATER HEATER BASE
SCALE: NONE

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VILLAGE SAFE WATER

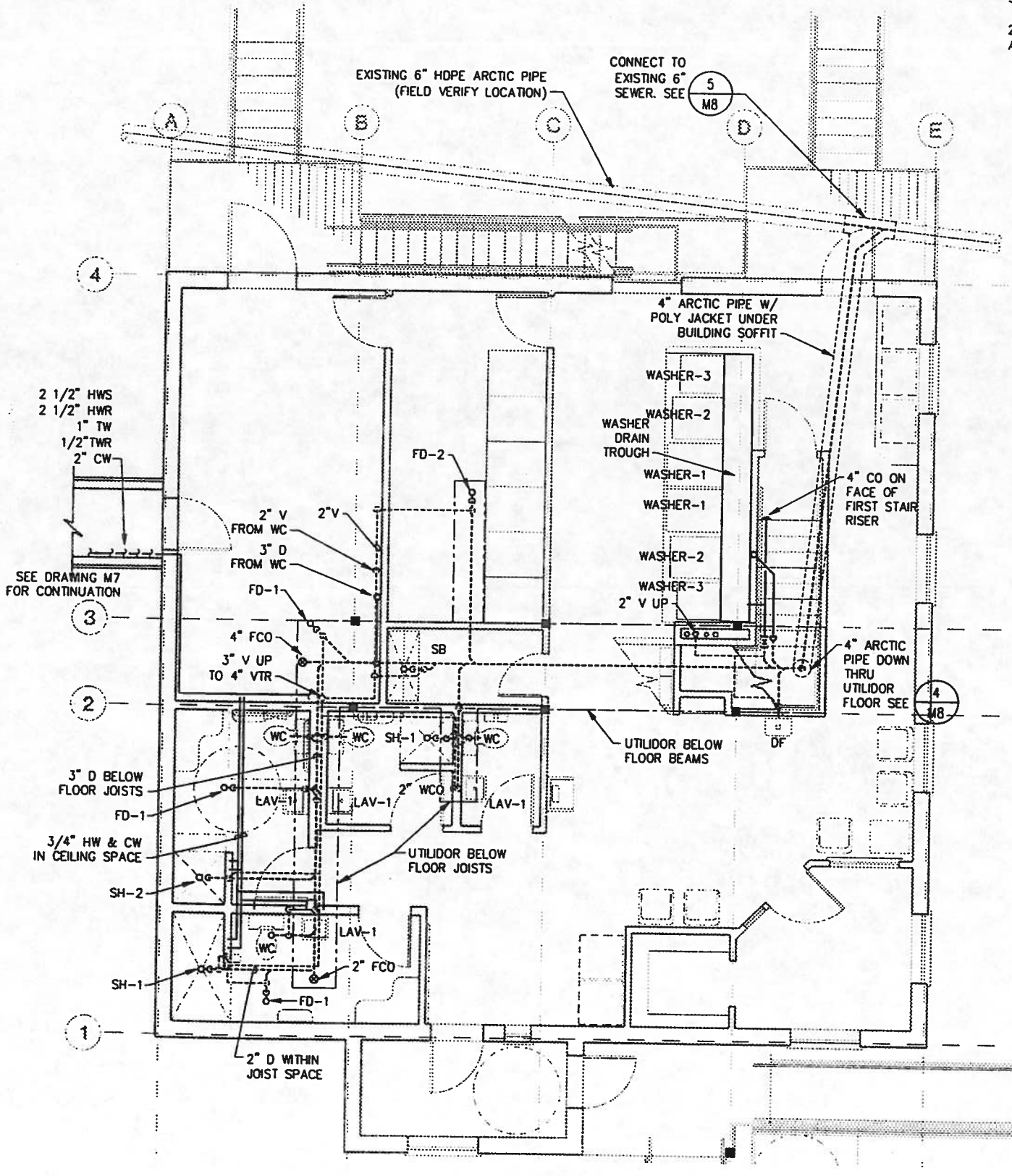
VILLAGE OF KONGIGANAK LAUNDRY FACILITY
KONGIGANAK, ALASKA

drawn	AYN
checked	KEH
date	2/25/00
revisions	
job no.	MWAKNG2
dwg. title	MECHANICAL PLAN FIRST FLOOR HEAT & VENT
sheet no.	M2

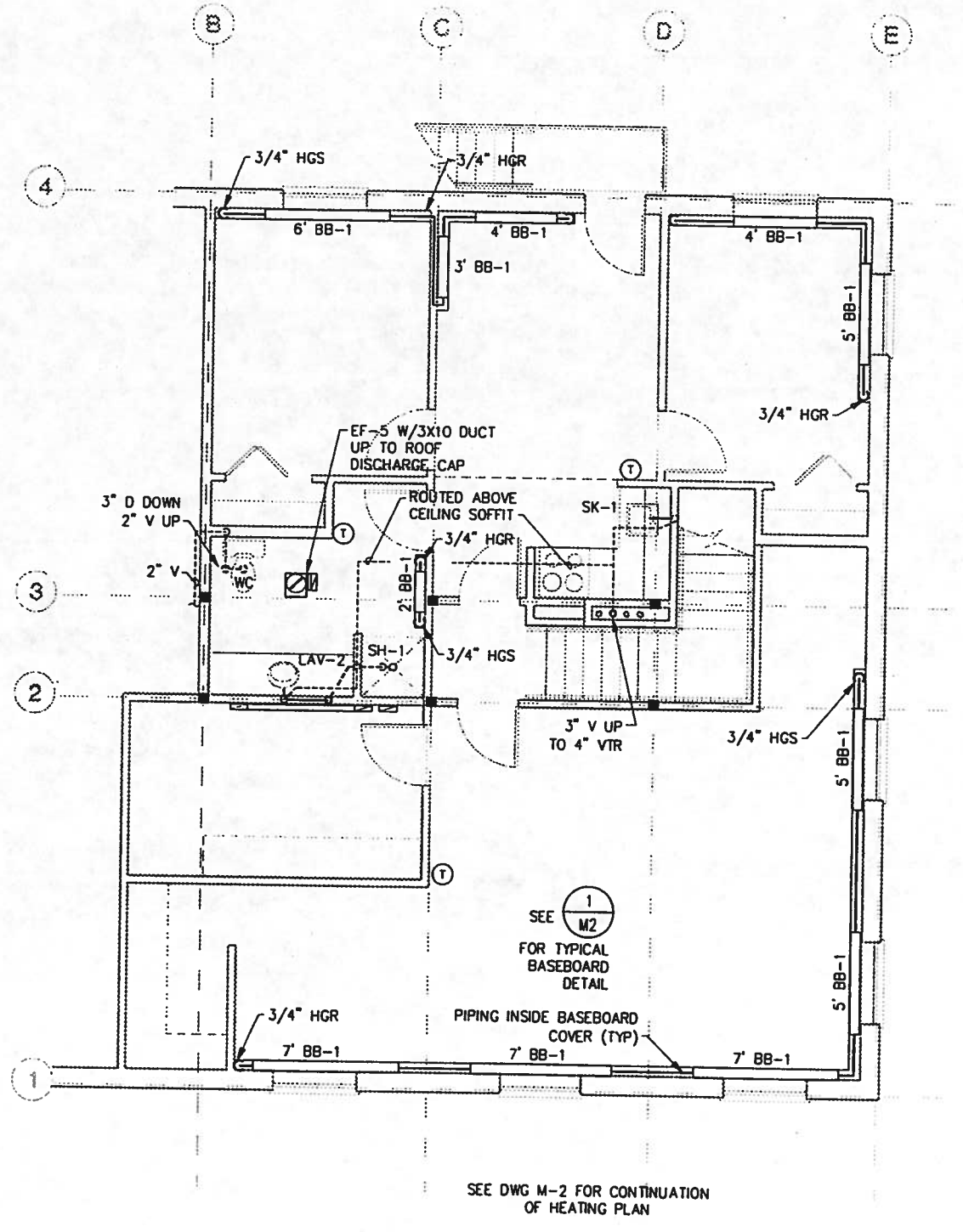
NOTES:

1. SEE DRAWING M6 FOR DRAIN AND VENT PIPE SIZES NOT SHOWN.

2. SEE DRAWING M6 FOR WATER PIPING ARRANGEMENT AND SIZES.



FIRST FLOOR PLUMBING PLAN



SECOND FLOOR PLUMBING & HEATING PLAN

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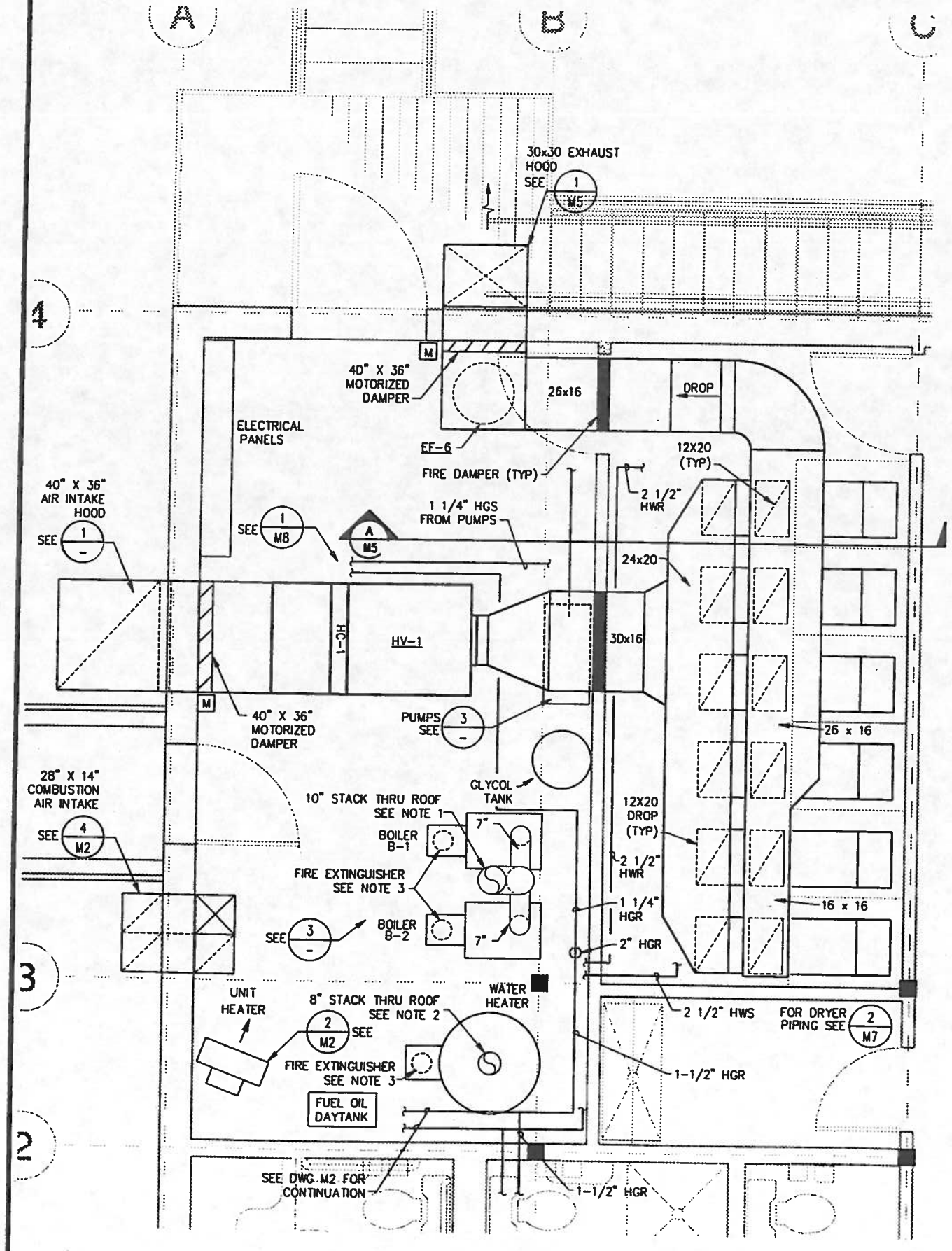
VILLAGE SAFE WATER

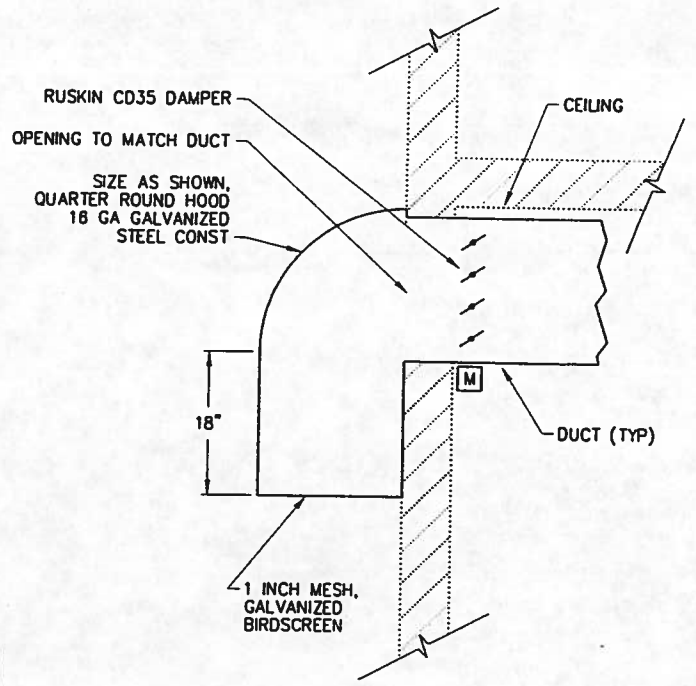
VILLAGE OF KONGIGANAK
LAUNDRY FACILITY
KONGIGANAK, ALASKA

drawn: AYN
checked: KEH
date: 2/25/00
revisions:

job no. MVAKNG2
dwg. title: 1ST & 2ND FLOOR PLUMBING AND HEATING PLANS
sheet no. M3



MECHANICAL ROOM PLAN
1/2" = 1'-0"



1/- DRYER MAKEUP AIR HOOD
SCALE: NONE

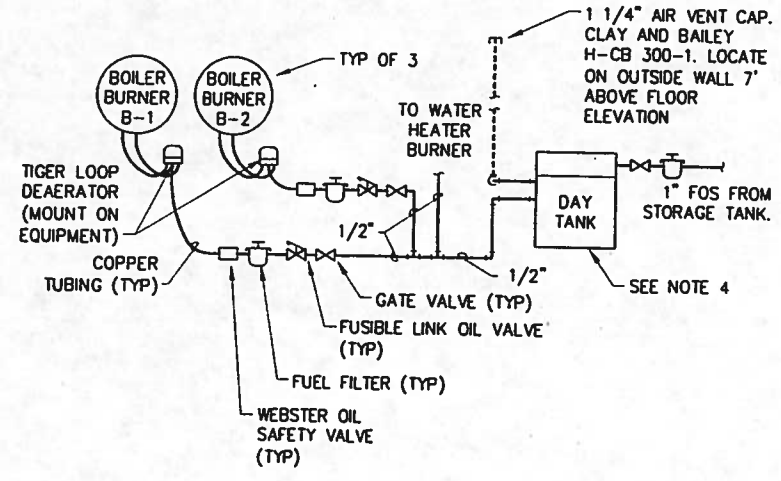
NOTES:

1. PROVIDE BAROMETRIC DAMPER AT EACH BOILER BREECHING. CONNECT BREECHINGS TO 10" WYE AND OFFSET TO MAINTAIN REQUIRED CLEARANCE TO COMBUSTIBLES. PROVIDE ROOF SUPPORT THIMBLE/FLASHING AND RAIN CAP. EXTEND 3' ABOVE ROOF AND GUY TO WITHSTAND 100MPH WIND. METALBESTOS PS OR EQUAL.

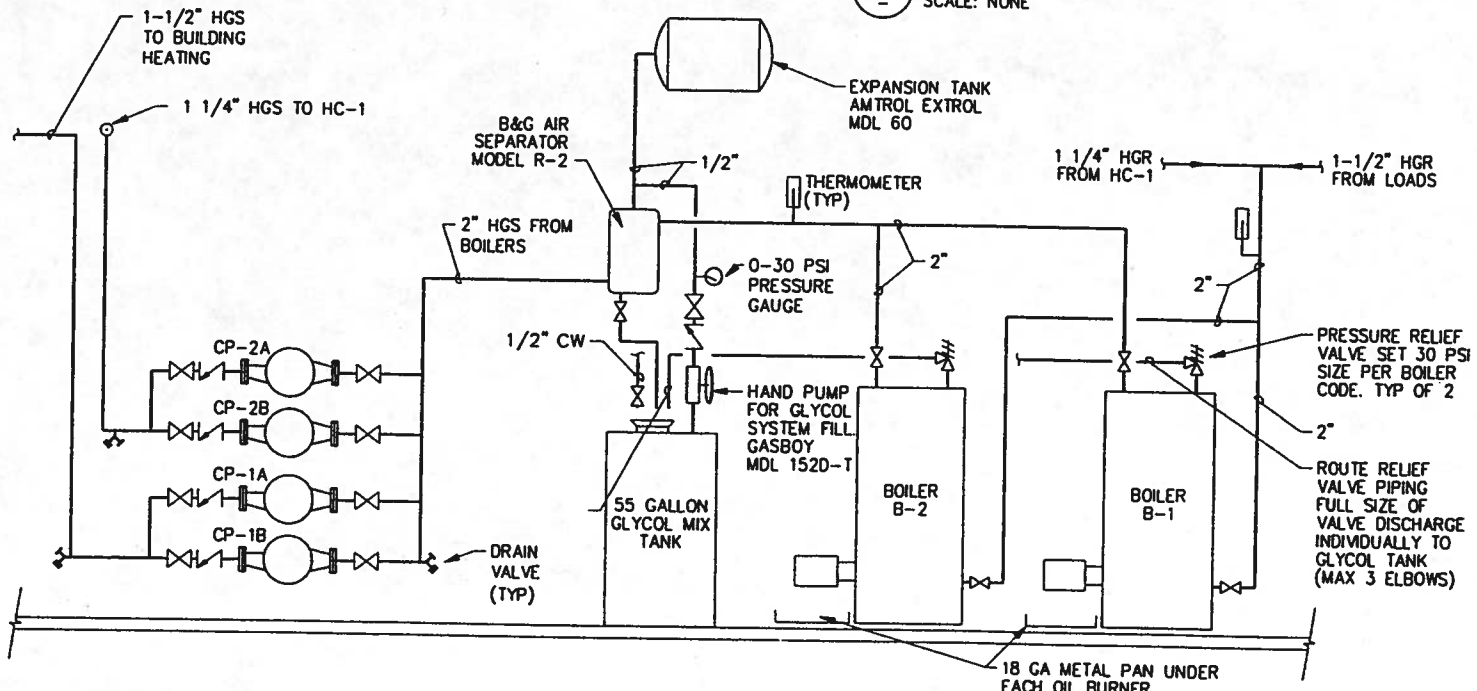
2. PROVIDE BAROMETRIC DAMPER, ROOF SUPPORT THIMBLE/FLASHING AND RAIN CAP. EXTEND 3' ABOVE ROOF AND GUY TO WITHSTAND 100 MPH WIND. DOUBLE-WALL CHIMNEY RATED FOR FUEL APPLIANCES. MAINTAIN REQUIRED CLEARANCE TO COMBUSTIBLES.

3. AUTOMATIC DRY CHEMICAL FIRE EXTINGUISHER, UL LISTED 8 LB CHEMICAL, 20 SQ FT COVERAGE, MOUNT W/NOZZLE 7'-0" ABOVE BURNER. ADX MODEL 1130 OR EQUAL.

4. FUEL OIL DAYTANK - SIMPLEX MODEL SDE25L UL LISTED PACKAGED SYSTEM WITH HIGH LEVEL CONTROL AND PUMP RELAY, 1/3 HP, 120 VAC, SINGLE PHASE FILL PUMP, AND OPTIONS D80 (INLET SOLENOID VALVE), 190 (OVER FLOW BASIN), AND 295 (LOW FUEL LEVEL ALARM CONTACTS).



2/- FUEL OIL PIPING SCHEMATIC
SCALE: NONE



3/- BOILER PIPING SCHEMATIC
SCALE: 1/2" = 1' - 0"

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VILLAGE SAFE WATER

VILLAGE OF KONIGIGANAK
LAUNDRY FACILITY
KONIGIGANAK, ALASKA

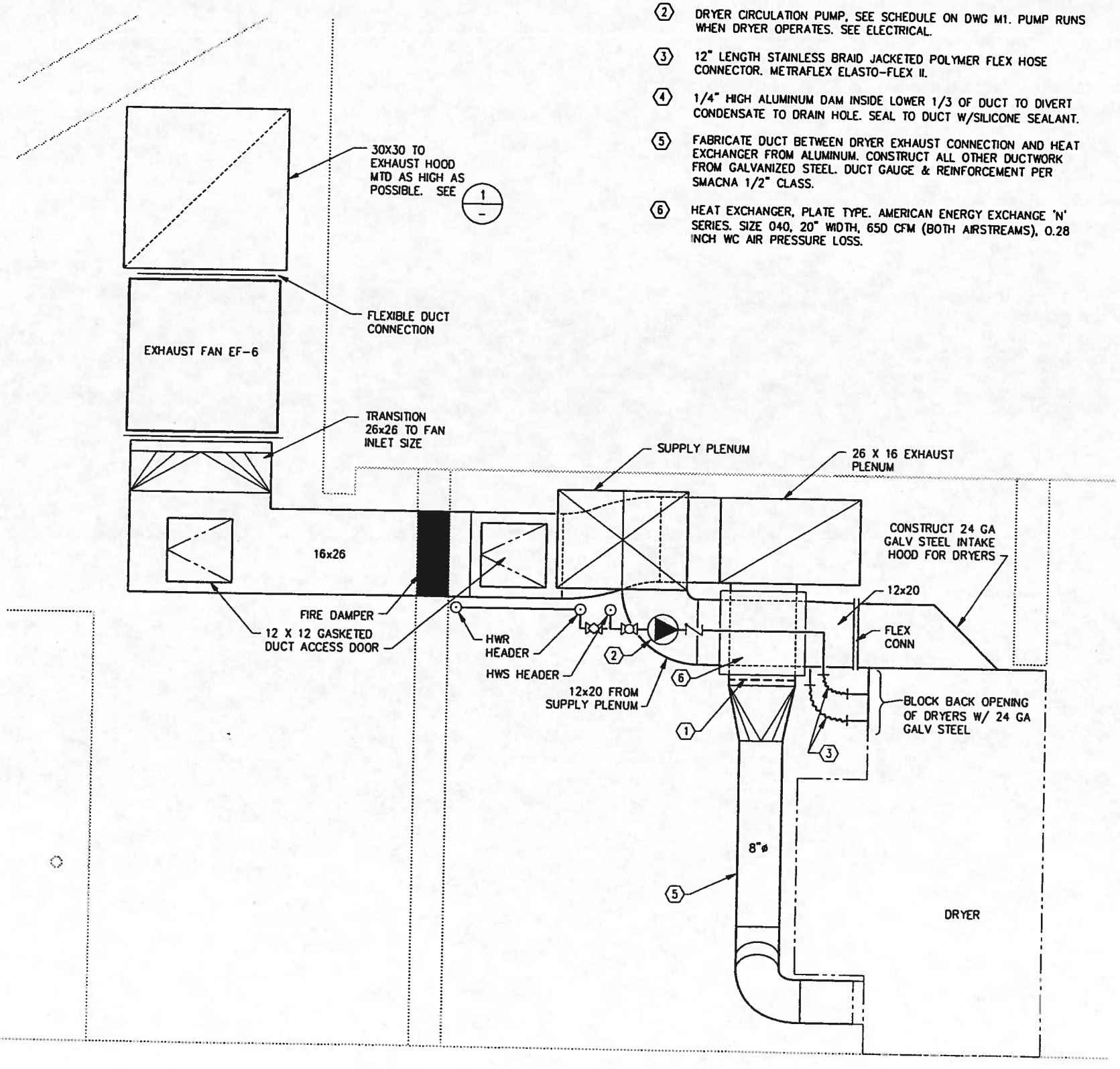
drawn: ATH
checked: KEH
date: 2/25/00
revisions:

job no. MWAKNG2
dwg. title: MECHANICAL PLAN BOILER ROOM & DRYERS

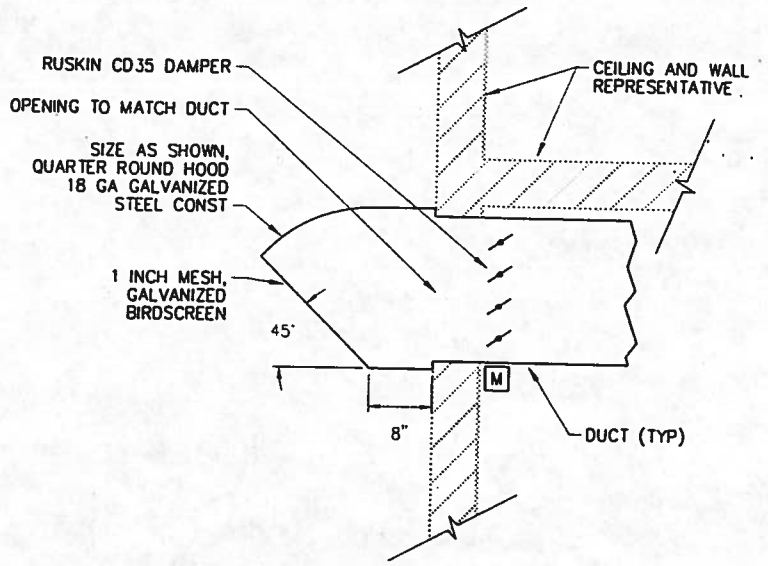
sheet no.
M4

NOTES:

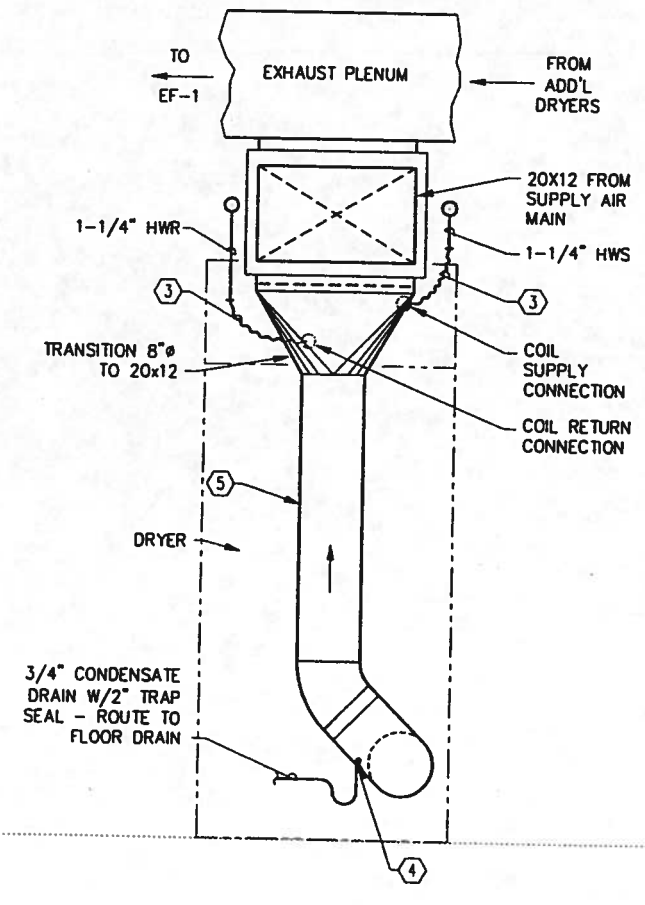
1. CONSTRUCT 12x20 LINT SCREEN FROM 1/8" MESH STAINLESS STEEL SCREEN. PROVIDE ALUMINUM FRAME & TRACK FOR DAILY REMOVAL & CLEANING.
2. DRYER CIRCULATION PUMP, SEE SCHEDULE ON DWG M1. PUMP RUNS WHEN DRYER OPERATES. SEE ELECTRICAL.
3. 12" LENGTH STAINLESS BRAID JACKETED POLYMER FLEX HOSE CONNECTOR. METRAFLEX ELASTO-FLEX II.
4. 1/4" HIGH ALUMINUM DAM INSIDE LOWER 1/3 OF DUCT TO DIVERT CONDENSATE TO DRAIN HOLE. SEAL TO DUCT W/SILICONE SEALANT.
5. FABRICATE DUCT BETWEEN DRYER EXHAUST CONNECTION AND HEAT EXCHANGER FROM ALUMINUM. CONSTRUCT ALL OTHER DUCTWORK FROM GALVANIZED STEEL. DUCT GAUGE & REINFORCEMENT PER SMACNA 1/2" CLASS.
6. HEAT EXCHANGER, PLATE TYPE. AMERICAN ENERGY EXCHANGE 'N' SERIES. SIZE 040, 20" WIDTH, 650 CFM (BOTH AIRSTREAMS), 0.28 INCH WC AIR PRESSURE LOSS.



A/M4 DRYER VENTILATION SECTION
SCALE: 1" = 1' - 0"



1/- EXHAUST HOOD DETAIL
SCALE: 1" = 1' - 0"



B/M4 DRYER VENTILATION SECTION
SCALE: 1" = 1' - 0"

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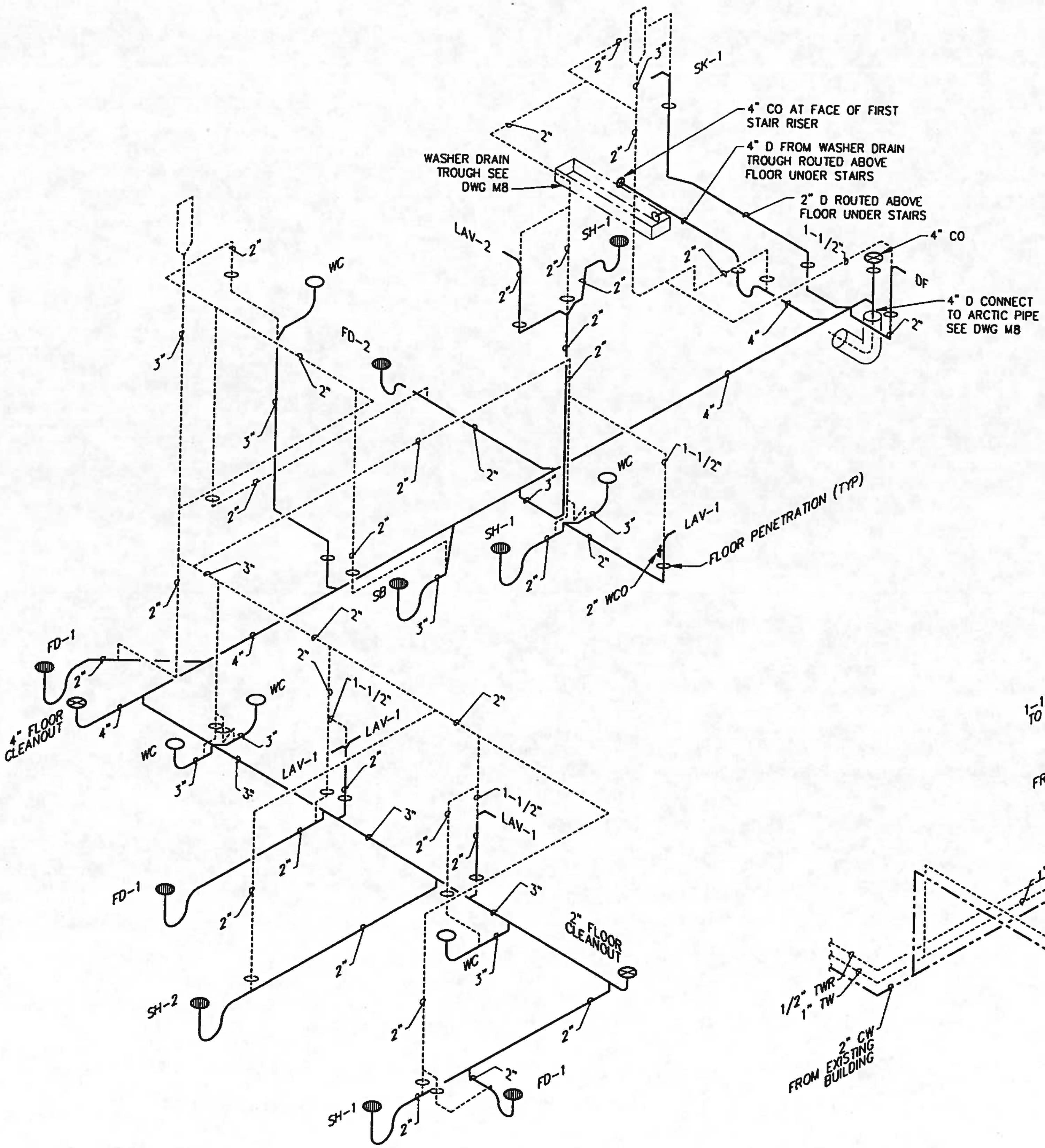
VILLAGE OF KONGIGANAK
LAUNDRY FACILITY
KONGIGANAK, ALASKA
VILLAGE SAFE WATER

drawn: ATN
checked: KEH
date: 2/25/00
revisions:

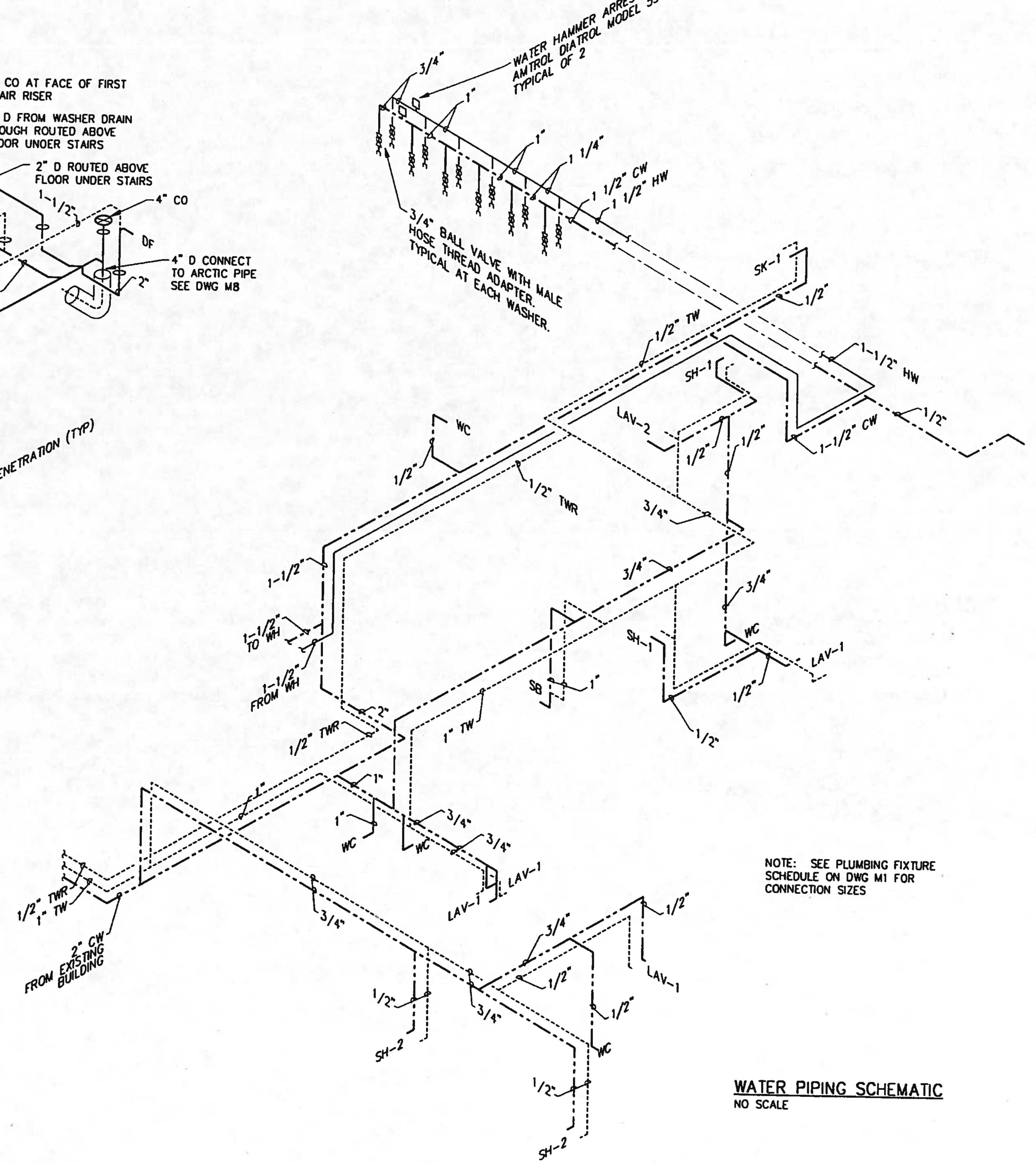
job no. MVAKNC2
dwg. title: MECHANICAL DETAILS. DRYER VENTILATION

sheet no.
M5



DRAIN & VENT SCHEMATIC

NO SCALE



NOTE: SEE PLUMBING FIXTURE SCHEDULE ON DWG M1 FOR CONNECTION SIZES

WATER PIPING SCHEMATIC

NO SCALE

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VILLAGE SAFE WATER

VILLAGE OF KONGIGANAK LAUNDRY FACILITY

KONGIGANAK, ALASKA

drawn	KEH
checked	KEH
date	2/25/00
revisions	
job no.	MWAKNG2
dwg. title	PLUMBING ISOMETRIC SCHEMATICS
sheet no.	M6

NOTES

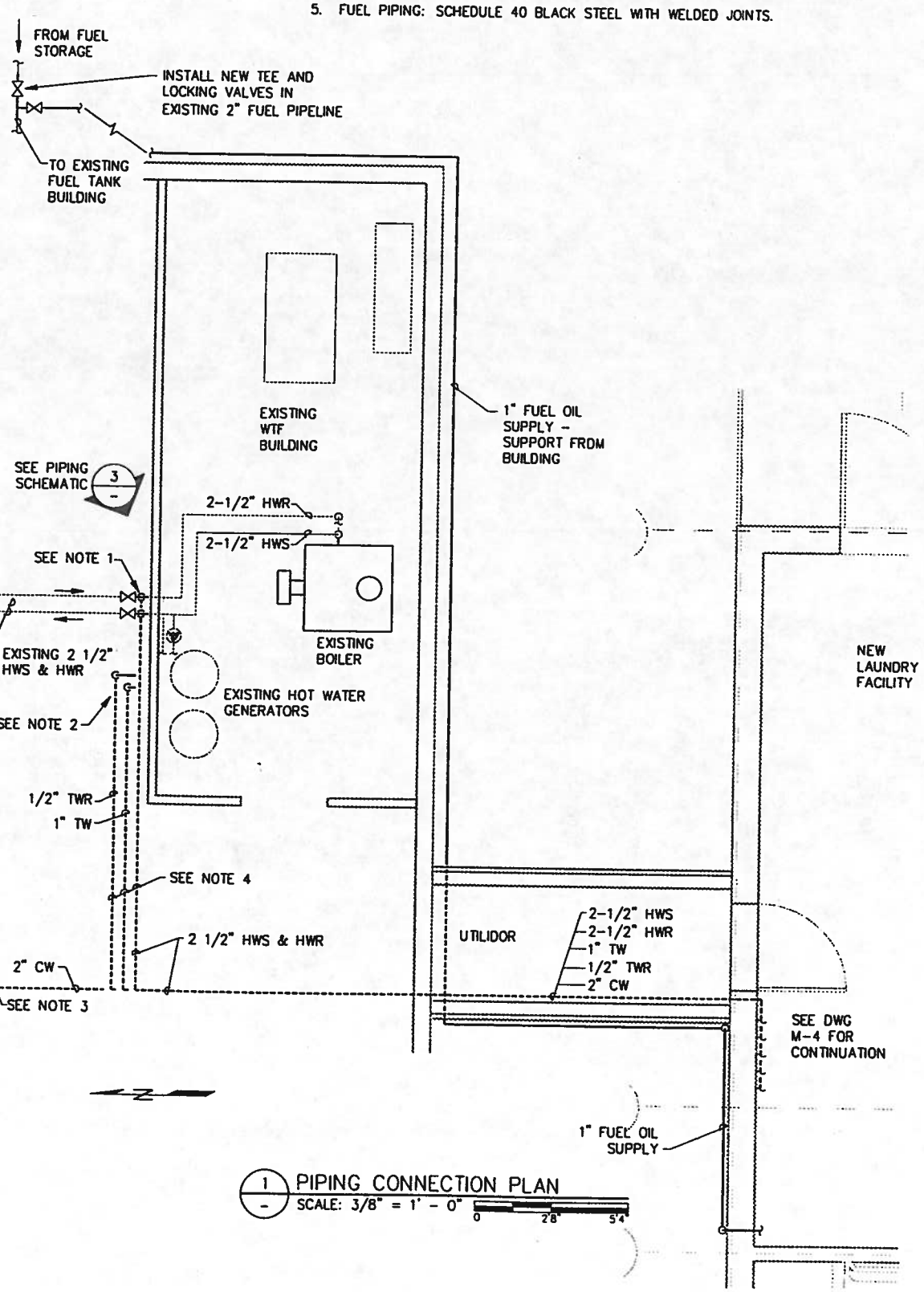
1. CUT IN TEES AND VALVES TO ALLOW CONTINUOUS OPERATION OF DRYERS IN EXISTING FACILITY DURING CONSTRUCTION OF NEW PIPING.

2. CONNECT 1" TW TO EXISTING DOMESTIC HOT WATER PIPING AT EXISTING HOT WATER GENERATORS. INSTALL CIRCULATING PUMP CP-3 ON TWR PIPE AND CONNECT TO CW INLET PIPING OF HOT WATER GENERATORS.

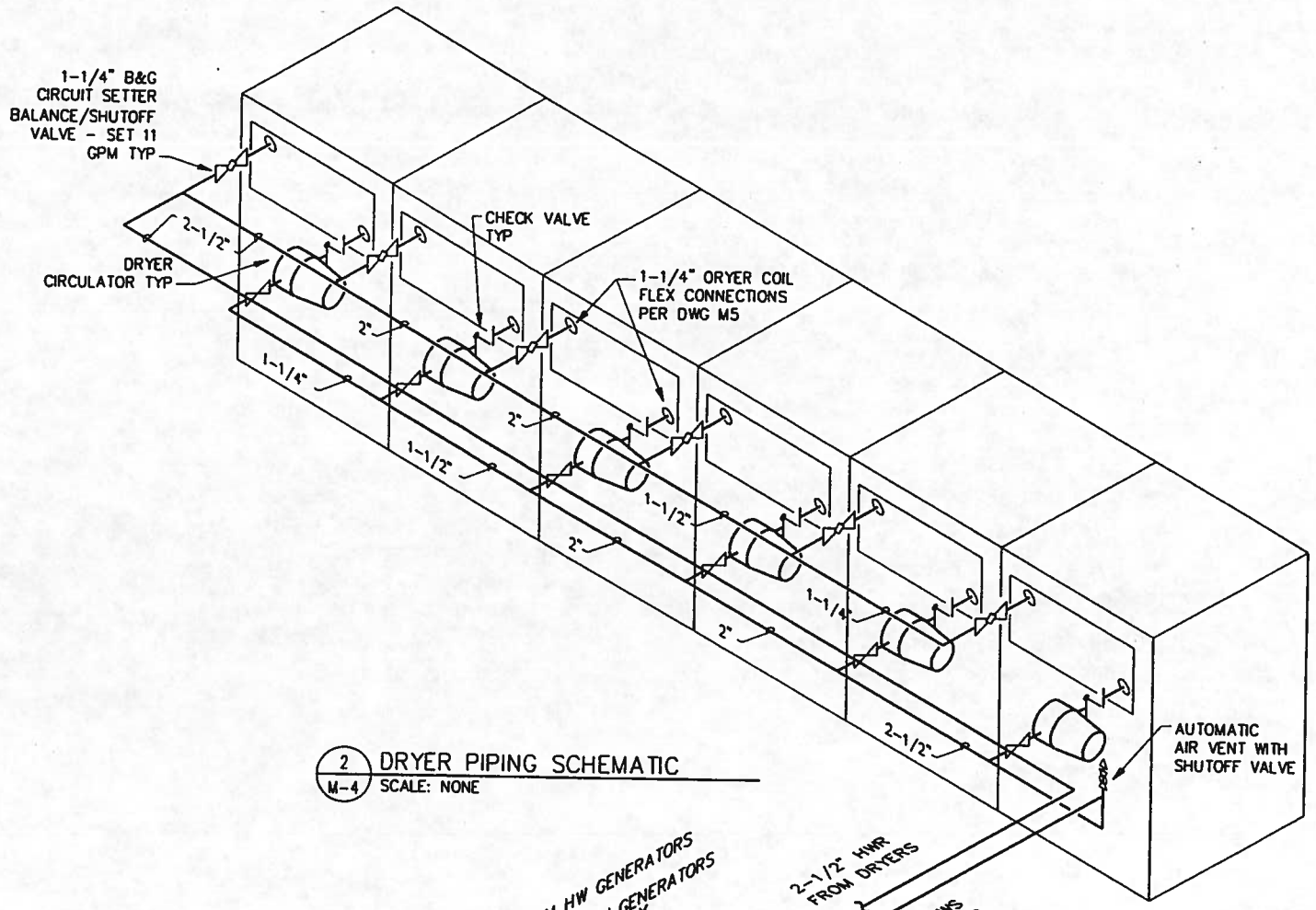
3. CONNECT 2" CW TO EXISTING CW NEAR DISCHARGE OF PRESSURE PUMP.

4. FIELD ROUTE PIPING IN LOWER LEVEL OF EXISTING WATER TREATMENT FACILITY.

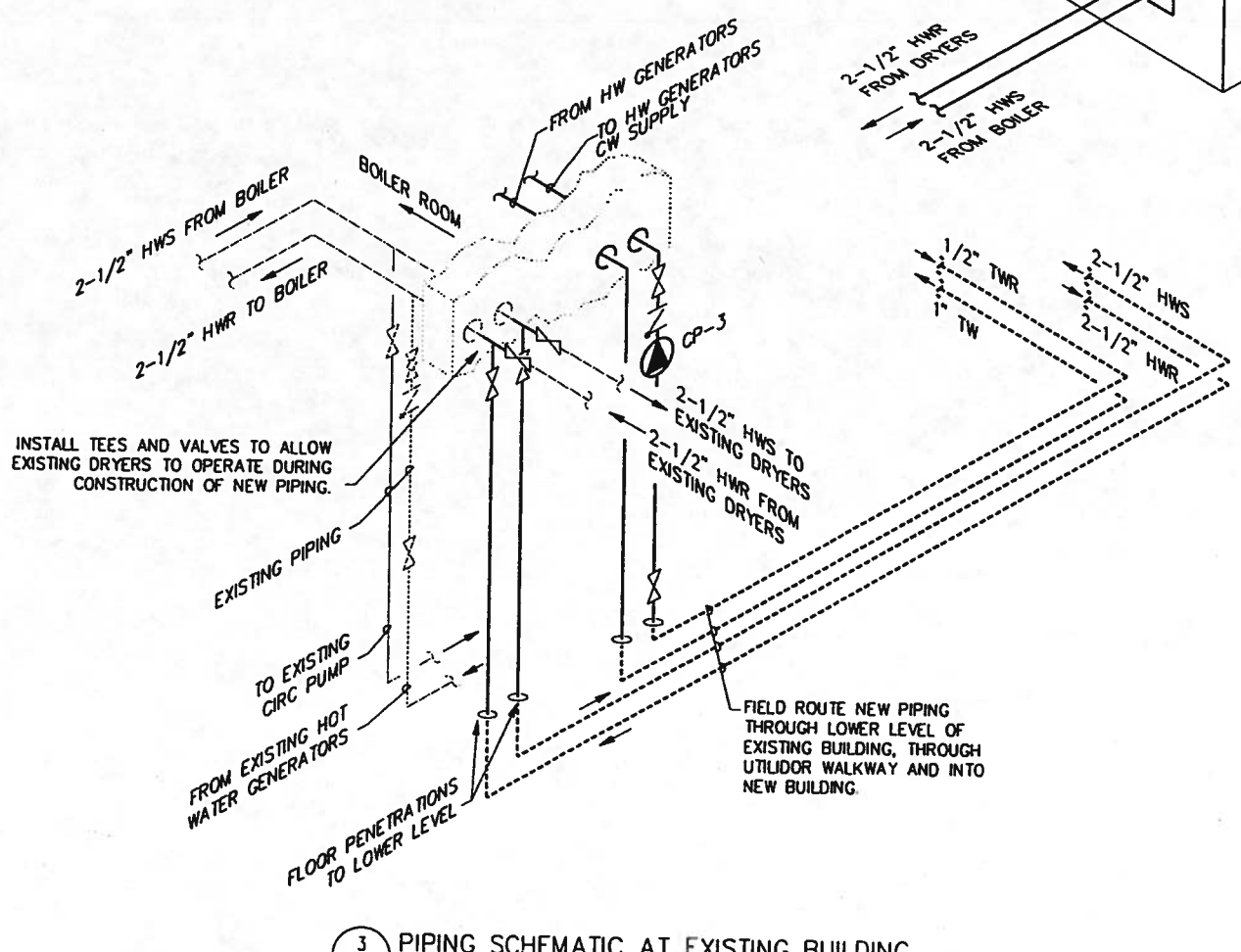
5. FUEL PIPING: SCHEDULE 40 BLACK STEEL WITH WELDED JOINTS.



1/- PIPING CONNECTION PLAN
SCALE: 3/8" = 1' - 0"



2/M-4 DRYER PIPING SCHEMATIC
SCALE: NONE



3/- PIPING SCHEMATIC AT EXISTING BUILDING
SCALE: NONE

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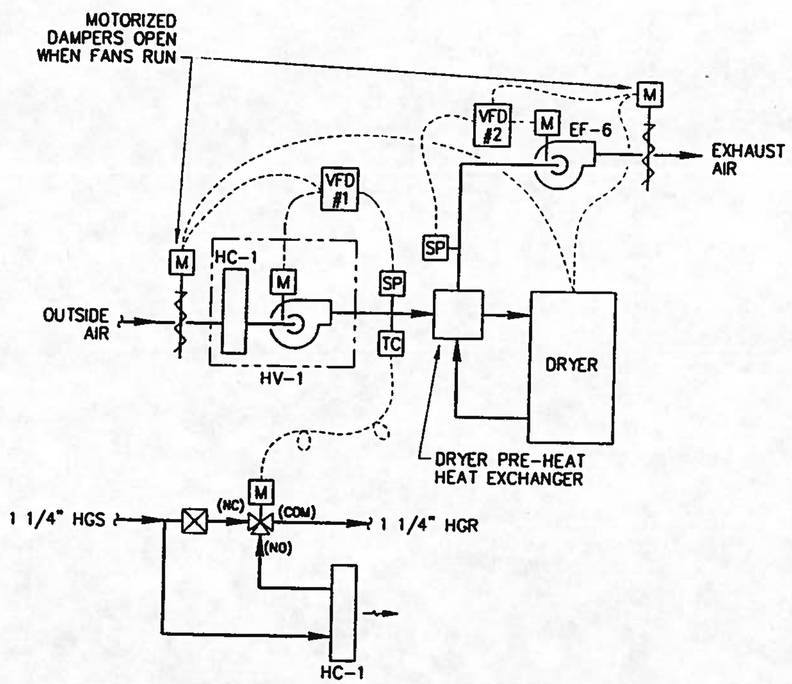
VILLAGE SAFE WATER

VILLAGE OF KONGIGANAK
LAUNDRY FACILITY
KONGIGANAK, ALASKA

drawn: KEH
checked: KEH
date: 2/25/00
revisions:

job no. MWAKNG2
dwg. title: PIPING CONNECTION PLAN & DETAILS

sheet no.
M7



DRYER MAKE-UP AND EXHAUST AIR CONTROL NARRATIVE

DRYER MAKE-UP AND EXHAUST FANS OPERATE WHENEVER ANY DRYER RUNS.

WHEN ANY DRYER STARTS, ITS CIRCULATION PUMP (CP-4 THRU CP-9) STARTS, THE OUTSIDE AIR AND EXHAUST AIR DAMPERS OPEN. AN AUXILLARY SWITCH ON EACH DAMPER MOTOR STARTS BOTH HV-1 AND EF-6 FANS WHEN THE DAMPERS ARE 25% OPEN. THE CORRESPONDING VARIABLE FREQUENCY DRIVE (VFD) REGULATES THE FAN SPEED TO MAINTAIN CONSTANT AIR PRESSURE IN THE DUCT. SUPPLY DUCT PRESSURE +0.15" WATER COLUMN AND EXHAUST DUCT PRESSURE -0.15" WATER COLUMN, BOTH WITH RESPECT TO ROOM.

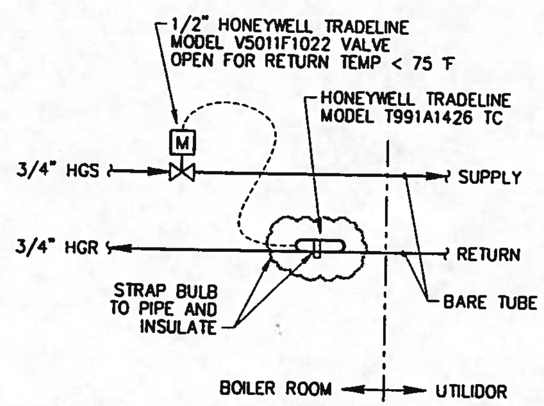
TEMPERATURE CONTROLLER TC MODULATES THE HC-1 VALVE IN SEQUENCE TO MAINTAIN DISCHARGE TEMPERATURE OF 35°F (ADJUSTABLE). THE TEMPERATURE CONTROLLER CLOSES THE HC-1 VALVE WHEN THE SUPPLY FAN IS STOPPED. ON CONTROL FAILURE, THE VALVE FAILS TO FULL HEAT TO HC-1.

DAMPER & VALVE MOTORS: HONEYWELL MODUTROL SERIES 90. PROVIDE ADJUSTABLE AUXILLARY SWITCHES ON DAMPER MOTORS TO INDICATE WHEN DAMPERS ARE 25% OPEN.

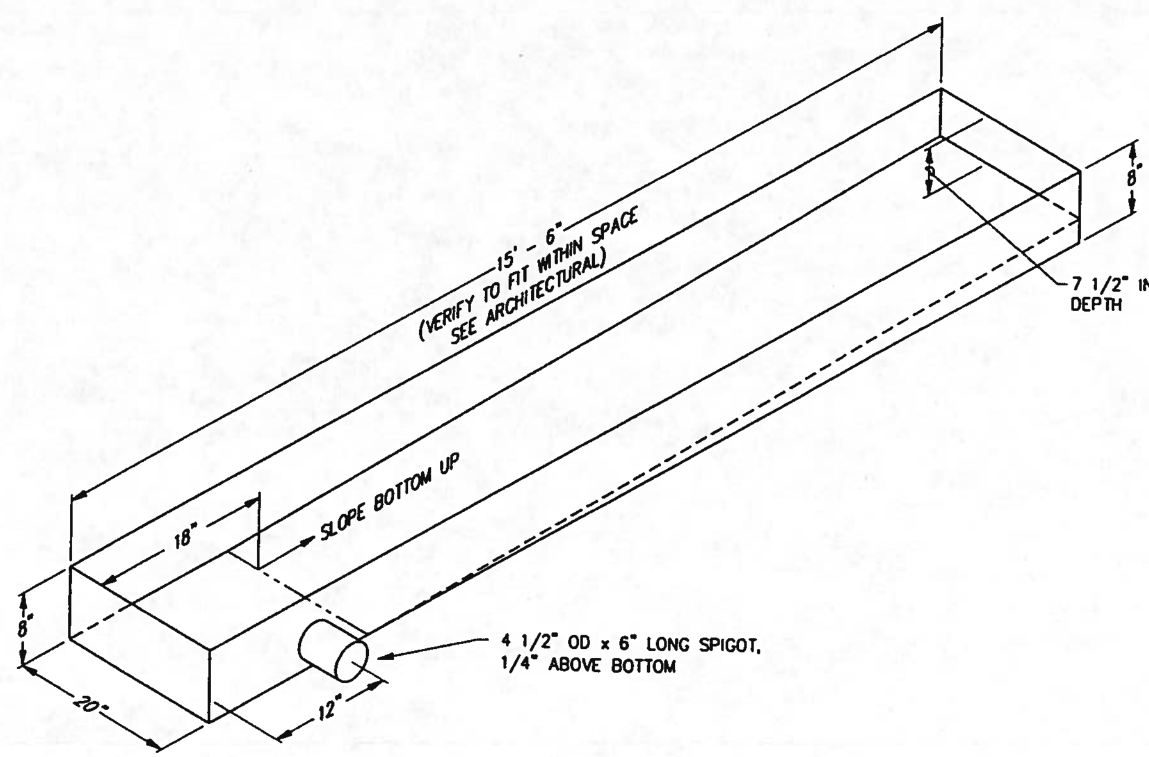
TEMPERATURE CONTROLLER: PROPORTIONAL 3-WIRE RESISTANCE DEVICES W/ FAST RESPONSE ELEMENT. HONEYWELL TRADELINE MODEL T991A1715.

STATIC PRESSURE SENSORS: MAMAC MODEL PR-276 OR EQUAL.
3-WAY VALVE: 1" HONEYWELL MODEL V5013F1095.

1 — DRYER AIR CONTROL SCHEMATIC
SCALE: NONE

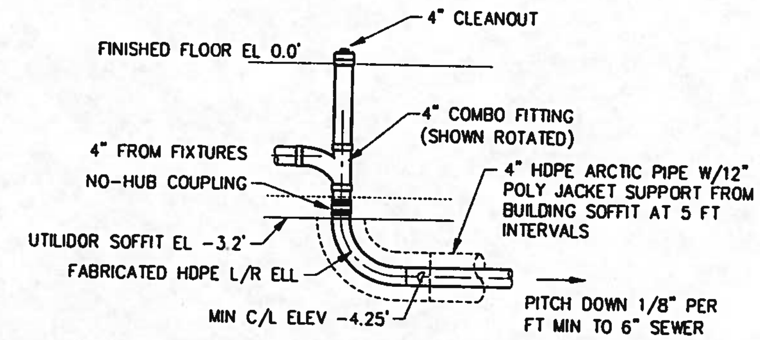


2 — UTILIDOR HEAT CONTROL SCHEMATIC
SCALE: NONE

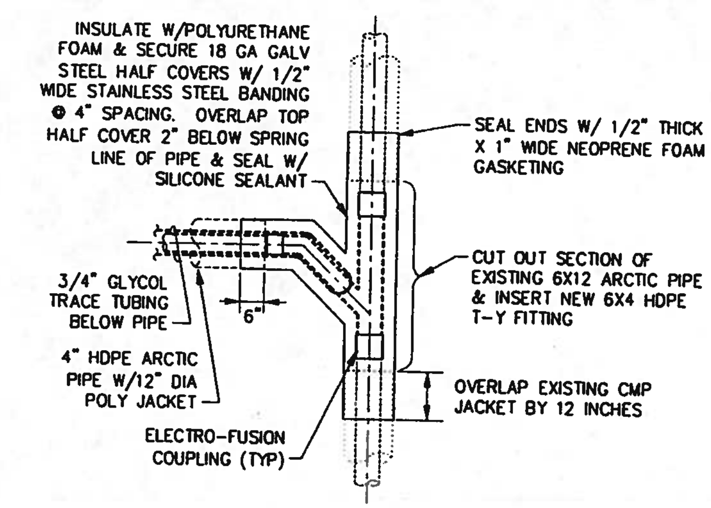


CONSTRUCT FROM 1/8" THICK 5052 ALUMINUM SHEET - WATERTIGHT

3 / M6 — WASHER DRAIN TROUGH
SCALE: NONE



4 / M3 — SEWER PIPE BUILDING EXIT
SCALE: 1/2" = 1'-0"



5 / M3 — EXISTING SEWER CONNECTION
SCALE: 1/2" = 1'-0"

STATE OF ALASKA — 49th — Kevin L. Hanson ME 5841 — REGISTERED PROFESSIONAL ENGINEER

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VILLAGE SAFE WATER

VILLAGE OF KONGIGANAK LAUNDRY FACILITY

KONGIGANAK, ALASKA

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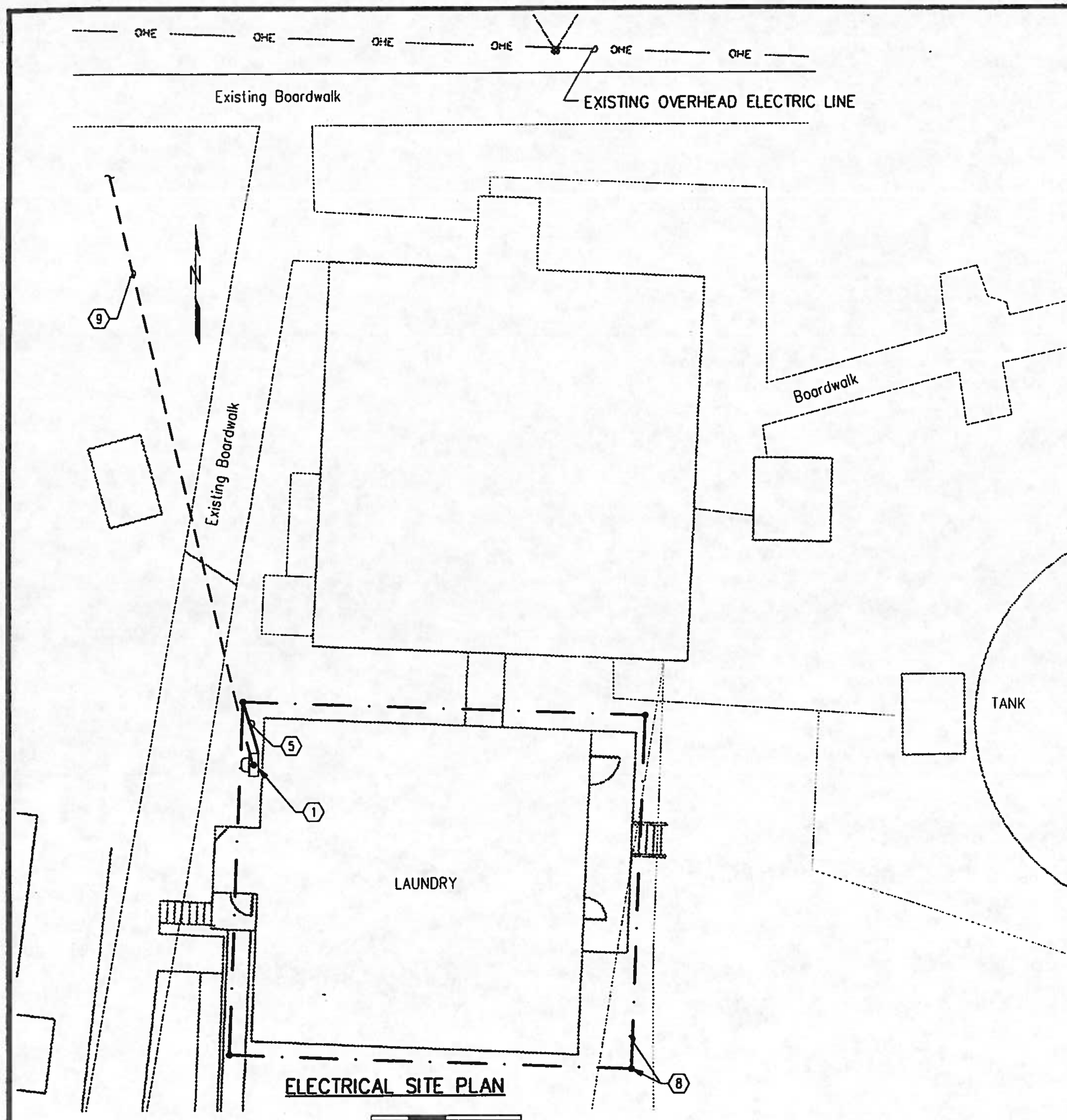
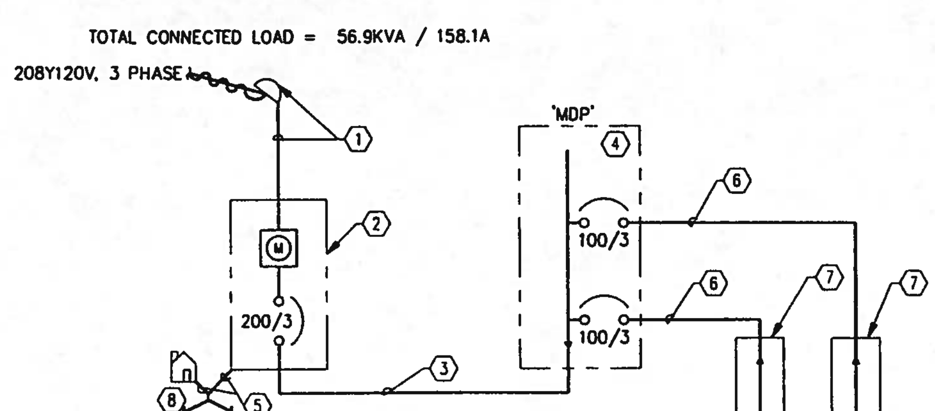
job no.	MWAKNC2
dwg. title	MECHANICAL DETAILS
sheet no.	M8



ELECTRICAL SITE PLAN



POWER ONE-LINE

ELECTRICAL SPECIFICATIONS

1. ALL WIRING SHALL BE PERFORMED BY LICENSED JOURNEYMEN ELECTRICIANS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ANY LOCAL AND STATE ADOPTED AMENDMENTS.

2. ALL WIRING SHALL BE IN CONDUIT IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:
INTERIOR: EMT, LIQUIDTIGHT, FLEXIBLE METALLIC
EXTERIOR – EXPOSED: GALVANIZED RIGID STEEL (GRC)
LIGHT FIXTURE WHIPS: METAL CLAD 'MC' CABLE, FLEXIBLE METALLIC

3. CONDUCTORS SHALL BE STRANDED COPPER, WITH 600V RATED INSULATION PER THE FOLLOWING SCHEDULE:
INTERIOR: THWN-2
EXTERIOR: XHHW-2

4. FITTINGS – ALL NON-HUB CONDUIT TERMINATIONS SHALL BE BUSHED EITHER WITH NON-METALLIC BUSHINGS ON THREADED CONDUITS OR INSULATED THROAT CONNECTORS FOR EMT AND FLEXIBLE CONDUITS. EMT COUPLINGS AND CONNECTORS SHALL BE COMPRESSION TYPE – NO SETSCREW TYPE ALLOWED.

5. ALL COMPONENTS AND ASSEMBLIES PROVIDED ON THIS PROJECT SHALL BE LISTED OR LABELED BY AN AGENCY ACCEPTABLE TO THE STATE OF ALASKA DEPARTMENT OF LABOR, MECHANICAL INSPECTIONS DIVISION.

6. ALL DEVICES AND ASSEMBLIES SHALL BE SERVED FROM ABOVE UNLESS SPECIFICALLY SHOWN OTHERWISE ON THE DRAWINGS.

7. ALL CONDUIT RUNS SHALL BE PROVIDED WITH AN EQUIPMENT GROUNDING CONDUCTOR SIZED PER THE NEC, ARTICLE 250-95.

8. ALL INTERIOR CONDUIT RUNS SHALL BE CONCEALED IN WALL & CEILING SPACES EXCEPT IN THE MECHANICAL ROOM WHERE SURFACE MOUNTING IS ALLOWED.

TESTING
TEST ALL CONDUCTORS PRIOR TO TERMINATION WITH A 500VDC MEGOHMETER. REPLACE ALL CONDUCTORS EXHIBITING LESS THAN 10MEGOHM IMPEDANCE. REPEAT TEST.

MATERIALS
GENERAL COMPONENTS SHALL BE AS CALLED OUT ON THE PLANS AND PER THE LEGEND AND PROVIDED AS SPECIFIED AND SHOWN. MANUFACTURER AND PART NUMBER DESIGNATIONS INDICATE THE MINIMUM PERFORMANCE AND QUALITY REQUIRED ON THIS PROJECT.

ABBREVIATIONS

A	AMPERE
AFF	ABOVE FINISH FLOOR
BCU	BARE COPPER
C	CONDUIT
CP	CONTROL PANEL
DWG	DRAWING
G	GROUND CONDUCTOR
GFI	GROUND FAULT INTERRUPTING
GRC	GALVANIZED RIGID (STEEL) CONDUIT
H	HOT CONDUCTOR
HOA	HAND OFF AUTO
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
KVA	KILO-VOLT-AMPERES
LTF	LIQUID TIGHT FLEXIBLE CONDUIT (METALLIC)
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
N	NEUTRAL CONDUCTOR
TEMP	TEMPORARY
TWSH	TWISTED WIRE SHIELDED CONDUCTOR
TYP	TYPICAL
V	VOLTS
W	WATTS
WP	WEATHERPROOF
XFMR	TRANSFORMER

NOTES

1. SERVICE ENTRANCE CONDUCTORS. 2 1/2"GRC RISER, 4#3/0 (3H,N) W/WEATHERHEAD. PROVIDE 18"MIN PIGTAILS AT WEATHERHEAD FOR CONNECTION TO THE SERVICE DROP CONDUCTORS BY THE LOCAL UTILITY. ADJUST HEIGHT OF WEATHERHEAD SUCH THAT A 12' MIN. CLEARANCE IS MAINTAINED BETWEEN THE LOWEST POINT OF THE SERVICE DROP CONDUCTORS AND THE FINISHED GRADE. PROVIDE ADEQUATE GUYING OF RISER ABOVE ROOF LINE AS REQUIRED.
2. 200A, 208Y120V, 3 PHASE, NEMA 3R, SERVICE COMBINATION METER/MAIN DISCONNECT. MOUNT SUCH THAT THE CENTER OF THE METER IS 5'-6"±6" ABOVE GRADE. COORDINATE SERVICE REQUIREMENTS W/LOCAL UTILITY.
3. 2 1/2"C, 4#3/0 (3H,N) & 1#6(G)
4. 225A, 208Y120V, 3 PHASE, NEMA 12, 30 SPACE, MLO PANELBOARD. SQUARE D #NQOD430L225CU.
5. #4 BARE COPPER GROUNDING ELECTRODE CONDUCTOR, BOND TO THE METER/MAIN GROUND & NEUTRAL BUSSES, BUILDING GROUND SYSTEM, AND THE BUILDING STEEL.
6. 2"C, 4#2 (3H,N) & 1#8 (G).
7. 208Y120, 100A, 3 PHASE, MLO, NEMA 12, 42 SPACE, DISTRIBUTION PANELBOARD. SQUARE D #NQOD442L100CU.
8. BUILDING GROUND SYSTEM CONSISTING OF ONE 3/4"x 10' COPPER CLAD STEEL GROUND ROD IMBEDDED A MINIMUM OF 12" BELOW GRADE AT EACH CORNER OF THE BUILDING & INTERCONNECTED W/#2 BCU, PER NEC 250.
9. NEW 208Y120V, 3 PHASE, SERVICE DROP BY THE LOCAL UTILITY.

LEGEND

- CONDUIT RUN UNDERGROUND OR IN CONCRETE
- X-Y,Z: HOMERUN TO PANEL 'X', CIRCUITS # Y & Z. HOMERUNS NOT DEFINED ARE 3/4"C, 3#12.
- GROUND
- CONDUIT RUN – CHANGE IN ELEVATION
- LIQUID-TIGHT FLEXIBLE CONDUIT
- MOTOR, 3 PHASE
- MOTOR, SINGLE PHASE
- JUNCTION BOX OR FITTING
- THERMOSTAT, 120V, LINE VOLTAGE W/ 'OFF' POSITION
- UNIT HEATER, HORIZONTAL
- MOLDED CASE CIRCUIT BREAKER, X = AMPERE RATING, Y = NO. OF POLES
- PANELBOARD
- VARIABLE FREQUENCY DRIVE ABB #ACS-2K7-1 IN NEMA 12 ENCLOSURE
- MANUAL MOTOR STARTER & PROTECTOR. CUTLER HAMMER #A302KN W/NEMA 4 ENCLOSURE
- $: SINGLE POLE SWITCH, 120V, 20A. BRYANT #4901 OR EQUAL.
- $3: 3-WAY SWITCH, 120V, 20A. BRYANT #4903 OR EQUAL.
- 120V DUPLEX RECEPTACLE, NEMA 5-20R. BRYANT #5362 OR EQUAL.
- GFI: 120V DUPLEX GROUND FAULT INTERRUPT RECEPTACLE, NEMA 5-20R. BRYANT #GFR53FT OR EQUAL.
- MOTORIZED DAMPER
- TELEPHONE OUTLET

STATE OF ALASKA
John H. Faschon
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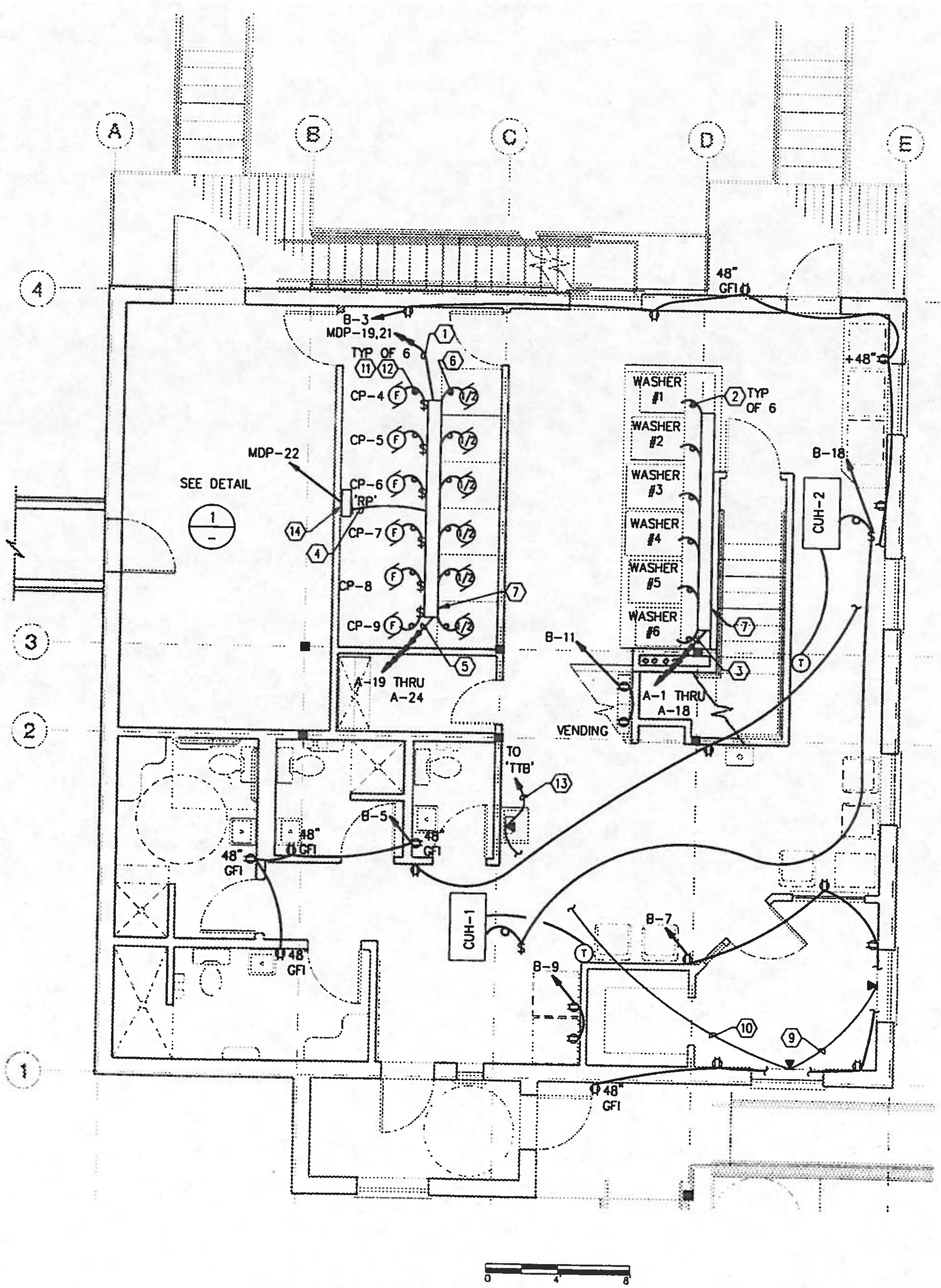
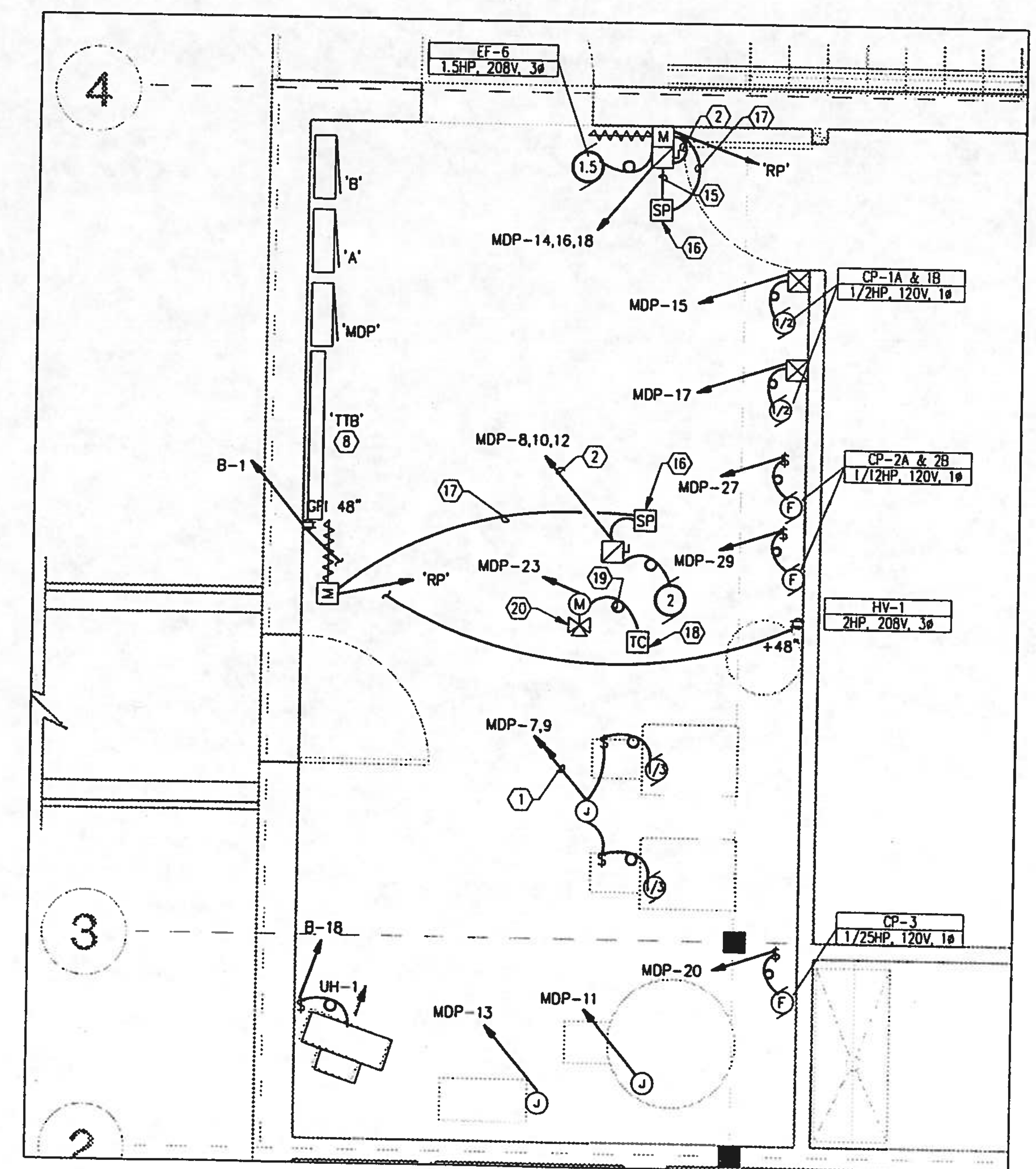
VILLAGE SAFE WATER

VILLAGE OF KONGIGANAK LAUNDRY FACILITY

KONGIGANAK, ALASKA

drawn: AYN
checked: JHF
date: 2/25/00
revisions:
job no.: MWAKNG2
dwg. title: ELECTRICAL SITE PLAN POWER ONE-LINE, LEGEND & ABBREVIATIONS
sheet no.: E1





1 MECHANICAL ROOM INSERT
SCALE: 1/2" = 1' - 0"

NOTES

1. 1/2"C, 5#12 (2H,2N,G)
2. 1/2"C, 4#12 (3H,G)
3. 1"C, 19#12 (18H,G)
4. 3/4"C, 9#14 (8 SIG,G)
5. 1"C, 13#12 (6H,6N,G)
6. 1/2"C, 3#12 (H,N,G) & 2#14 (SIG)
7. 2 1/2" x 2 1/2" NEMA 12 WIREWAY
8. 4'x 4'x 3/4" PLYWOOD TELEPHONE TERMINAL BOARD. PAINT TO MATCH
9. 1/2"C, (1) 4-WIRE TELEPHONE CABLE
10. 1/2"C, (2) 4-WIRE TELEPHONE CABLES

NOTES

11. CIRCULATION PUMP IS ENERGIZED WHEN ASSOCIATED DRYER IS TURNED ON. SEE SCHEMATIC ON DWG E3 AND DETAIL 1 ON M8
12. 1/2"C, 3#12 (SWITCHLEG,N,G)
13. 1/2"C, (3) 4-WIRE TELEPHONE CABLES.
14. RELAY PANEL 'RP' (NEMA 12) WITH DRYER AUXILIARY RUN RELAYS, DPDT, 120V, 15A RATED CONTACTS. SEE SCHEMATIC ON E3.
15. 1/2"C, 1PR #18 TWSH. VFD SPEED CONTROL SIGNAL.
16. STATIC PRESSURE SENSOR. SEE DETAIL 1 ON DWG M8.
17. 1/2"C, 3#14 (H,N,G). STATIC PRESSURE SENSOR. 24VAC POWER.
18. TEMPERATURE CONTROLLER. SEE DETAIL 1 ON DWG M8.
19. 1/2"C, 3 WIRE PER MECHANICAL.
20. HC-1 MOTORIZED VALVE, 120V. SEE DETAIL 1 ON M8.

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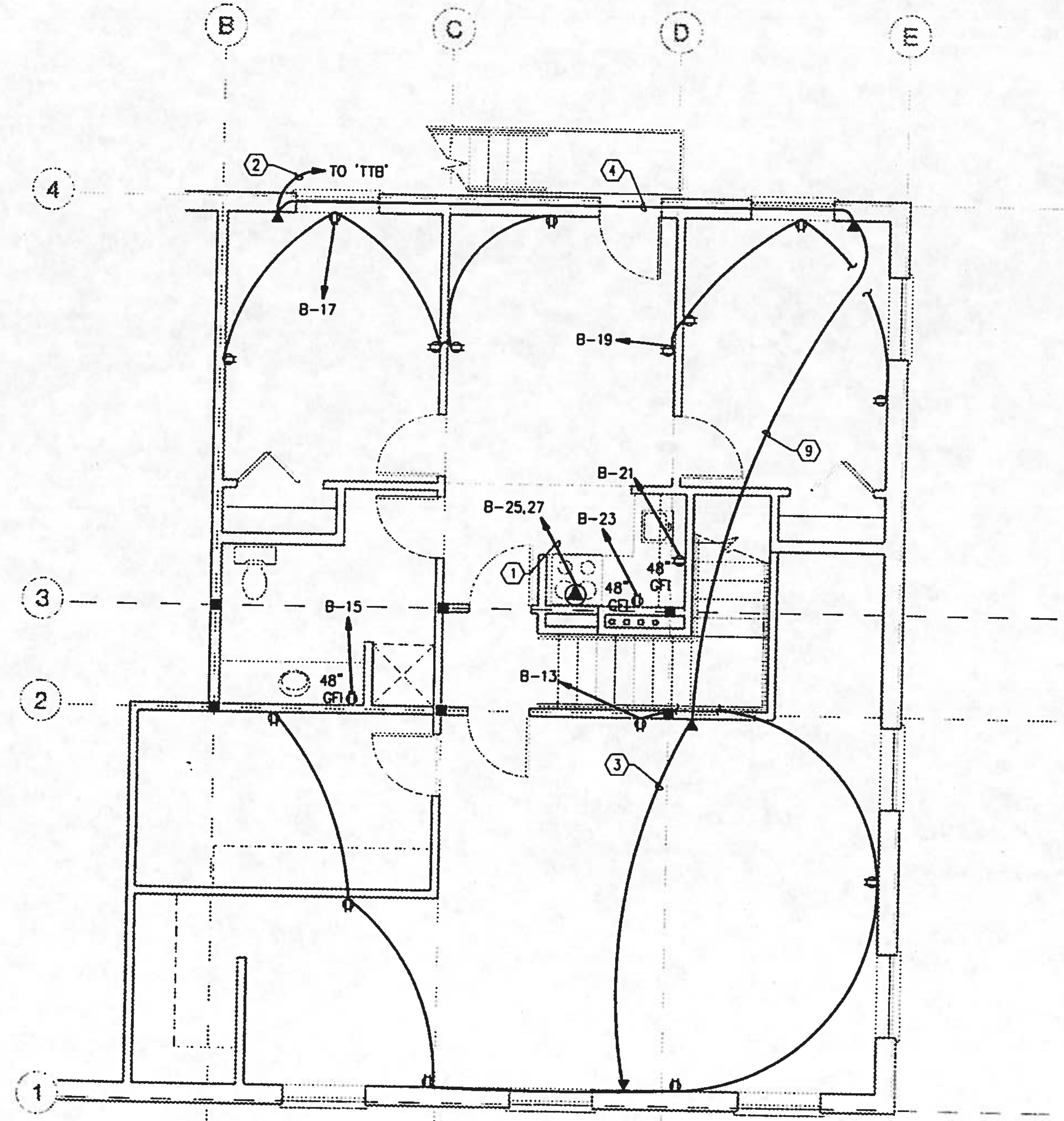
VILLAGE SAFE WATER

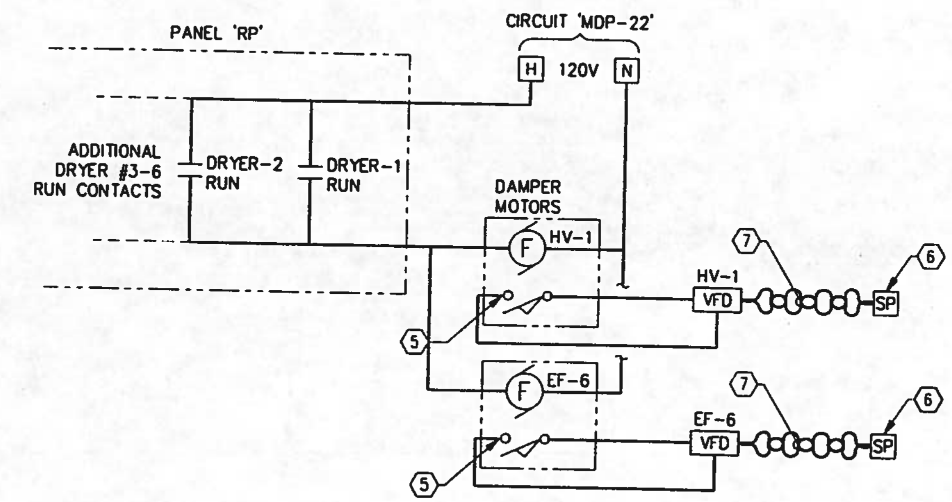
VILLAGE OF KONGIGANAK LAUNDRY FACILITY
KONGIGANAK, ALASKA

drawn	AYN
checked	JHF
date	2/25/00
revisions	
job no.	MWAKNG2
dwg. title	ELECTRICAL POWER PLAN FIRST FLOOR
sheet no.	E2

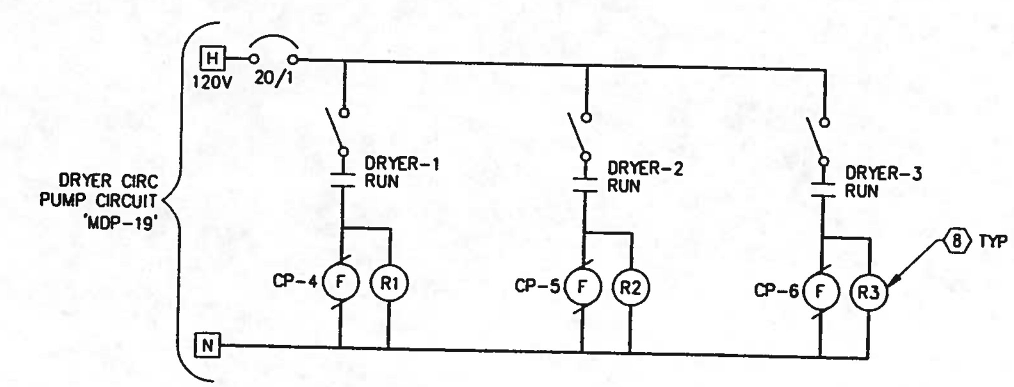
NOTES

1. 3/4"C, 3#8 (2H,G)
2. 3/4"C, (4) 4-WIRE TELEPHONE CABLES
3. 1/2"C, (1) 4-WIRE TELEPHONE CABLE
4. 1/2"C, (3) 4-WIRE TELEPHONE CABLES
5. DAMPER LIMIT SWITCH. SEE DETAIL 1, DWG M8.
6. STATIC PRESSURE SENSORS. SEE DETAIL 1, DWG M8.
7. 4-20mA SPEED CONTROL SIGNAL
8. DRYER AUXILIARY RUN RELAY, LOCATED IN RELAY PANEL 'RP'. SEE DWG E2.
9. 1/2"C, (2) 4-WIRE TELEPHONE CABLES.

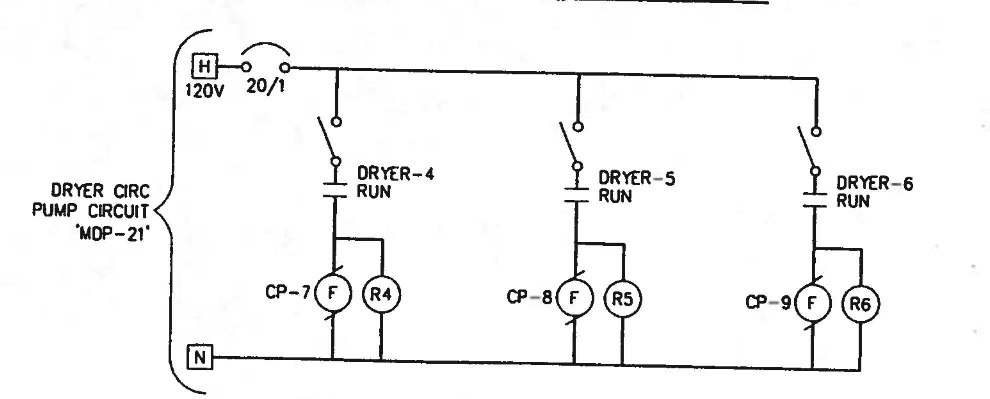




FAN/MOTORIZED DAMPER CONTROL SCHEMATIC



DRYER CIRC PUMPS #4-6 SCHEMATIC



DRYER CIRC PUMPS #7-9 SCHEMATIC

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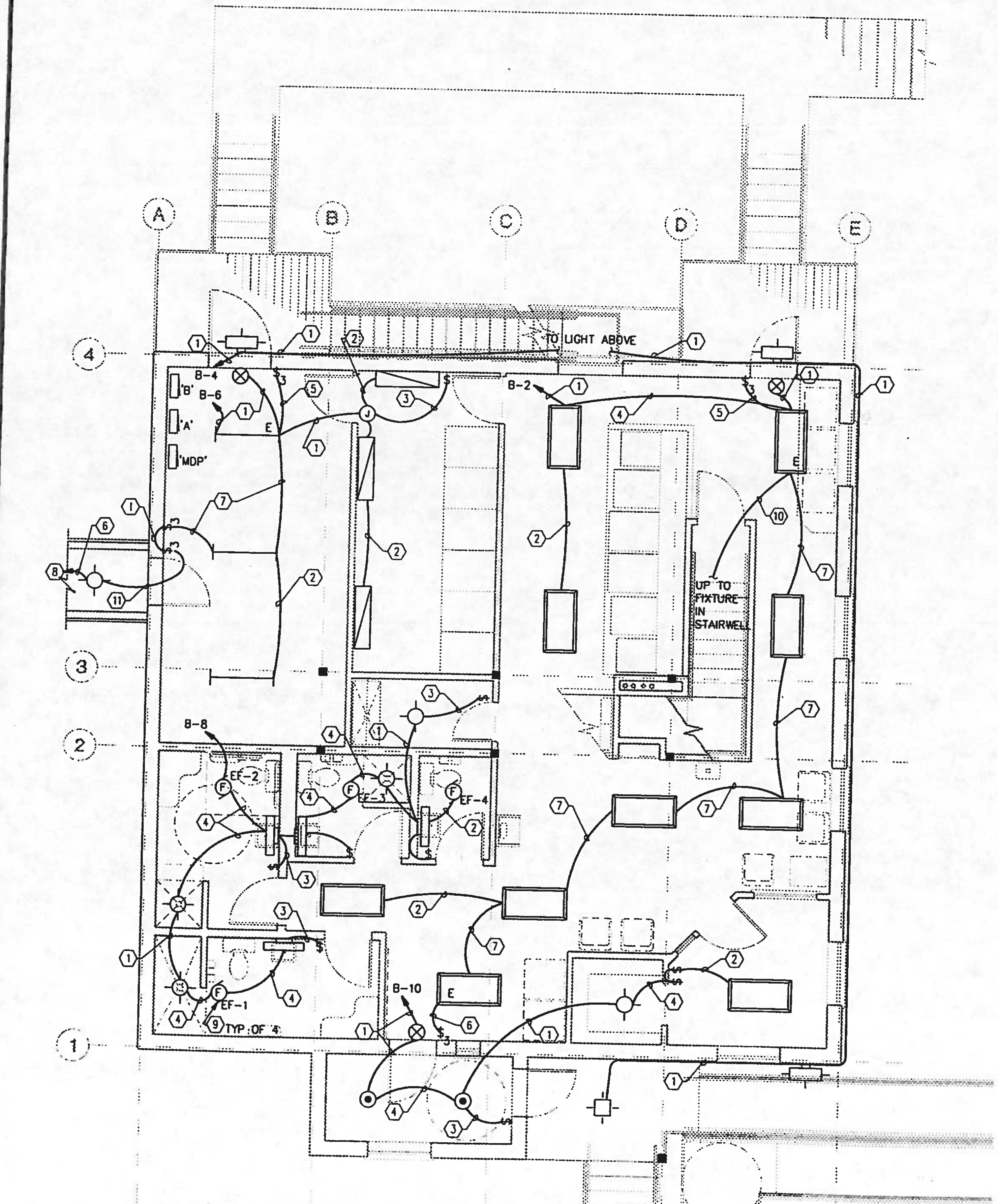
VILLAGE SAFE WATER

VILLAGE OF KONGIGANAK LAUNDRY FACILITY

KONGIGANAK, ALASKA

drawn: AYN
checked: JHF
date: 2/25/00
revisions:
job no.: MWAKNG2
dwg. title: ELECTRICAL POWER PLAN UPPER FLOOR
sheet no.: E3



NOTES

1. 1/2"C, 3#12 (H,N,G)
2. 1/2"C, 3#12 (SWITCHLEG,N,G)
3. 1/2"C, 3#12 (H,SWITCHLEG,G)
4. 1/2"C, 4#12 (H,SWITCHLEG,N,G)
5. 1/2"C, 4#12 (2 TRAVELERS,H,G)
6. 1/2"C, 4#12 (2 TRAVELERS,SWITCHLEG,G)
7. 1/2"C, 6#12 (2 TRAVELERS,SWITCHLEG,H,N,G)
8. PROVIDE 3-WAY LIGHT SWITCH AT OPPOSITE END OF UTILIDOR.
9. EXHAUST FAN TO BE SWITCHED 'ON' WITH THE LIGHT.
10. 3/4"C, 8#12 (4 TRAVELERS,SWITCHLEG,H,N,G)
11. 1/2"C, 4#12 (2 TRAVELERS,N,G)

FIXTURE SCHEDULE

SYMBOL	LAMP SIZE	MOUNTING	TYPE
	1-100W HPS	SURFACE CANOPY	120V, 100W, HIGH PRESSURE SODIUM, W/PHOTO ELECTRIC CONTROL. GE # SMVB10S1HC
	2-32W FLUOR	SURFACE CEILING MOUNT	120V, FLUORESCENT, 2-LAMP, MOISTURE RESISTANT, LITHONIA #AW 232 120 OR EQUAL.
	4-32W FLUOR	SURFACE CEILING MOUNT	120V, FLUORESCENT, 4-LAMP, MOISTURE RESISTANT, LITHONIA #AW 432 120 OR EQUAL.
	3-32W FLUOR	CHAIN HUNG @ 8'-0"AFF	120V, FLUORESCENT, 3-LAMP, INDUSTRIAL, 10% UPLIGHT, LITHONIA #AF10 332 120 OR EQUAL.
	4-32W FLUOR	RECESSED TROFFER	120V, FLUORESCENT, 4-LAMP, PARABOLIC TROFFER. LITHONIA #2PM3NGB432 18LD120 OR EQUAL.
	2-26W FLUOR	RECESSED CEILING	120V, FLUORESCENT, RECESSED FIXTURE, IC HOUSING, LITHONIA #LGF 2/26 DTT 9RW T73 120
	2-32W FLUOR	SURFACE WALL MOUNT	120V, FLUORESCENT, LITHONIA MODEL # WP 232 120 OR EQUAL. MOUNT ABOVE SINK MIRROR
	1-75W INCAND	SURFACE CEILING MOUNT	120V, INCANDESCENT, WET LOCATION. LIGHTOLIER MODEL 6770 OR EQUAL
	LED EXIT	WALL MOUNT ABOVE DOOR	LED EXIT SIGN, 120V, SINGLE-FACE, LITHONIA #LRP IRW 120EL N OR EQUAL
	1-100W HPS	SURFACE WALL MOUNT	120V, 100W, HIGH PRESSURE SODIUM, WALL PAK W/PHOTO ELECTRIC CONTROL. LITHONIA #TWH 100S 120 PE
	2-32W FLUOR	RECESSED TROFFER	120V, FLUORESCENT, 2-LAMP, PARABOLIC TROFFER. LITHONIA #2PM3NGB232 18LD120 OR EQUAL.
	2-32W FLUOR	SURFACE WALL MOUNT	120V, FLUORESCENT, 2-LAMP. LITHONIA MODEL # WC232120 OR EQUAL.

E = FIXTURE PROVIDED WITH EMERGENCY BALLAST

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VILLAGE SAFE WATER

VILLAGE OF KONGIGANAK LAUNDRY FACILITY

KONGIGANAK, ALASKA

drawn: AYN
checked: JHF
date: 2/25/00
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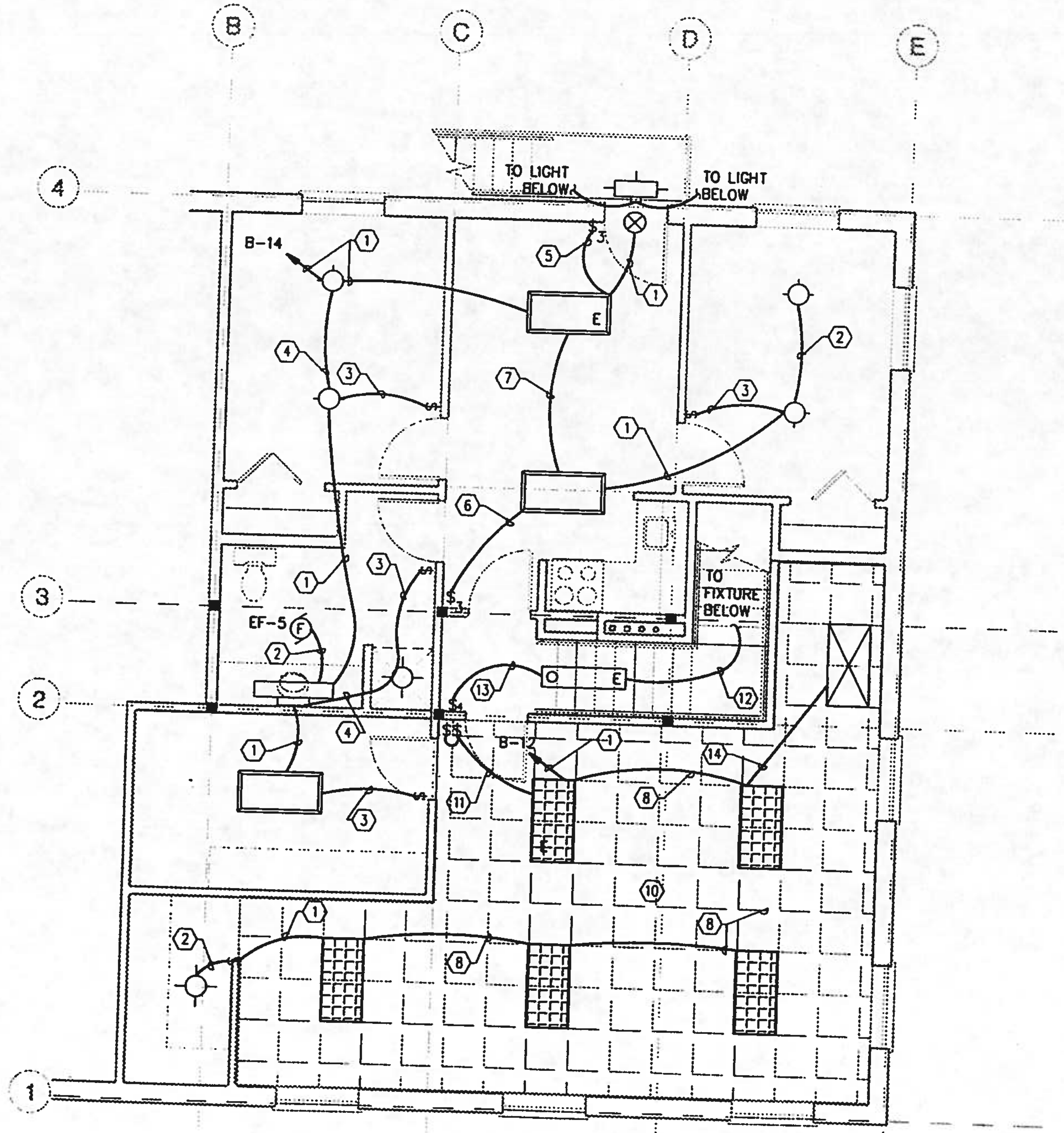
dwg. title: ELECTRICAL LIGHTING PLAN FIRST FLOOR
sheet no.: F4



NOTES

1. 1/2"C, 3#12 (H,N,G)
2. 1/2"C, 3#12 (SWITCHLEG,N,G)
3. 1/2"C, 3#12 (H,SWITCHLEG,G)
4. 1/2"C, 4#12 (H,SWITCHLEG,N,G)
5. 1/2"C, 4#12 (2 TRAVELERS,H,G)
6. 1/2"C, 4#12 (2 TRAVELERS,SWITCHLEG,G)
7. 1/2"C, 6#12 (2 TRAVELERS,SWITCHLEG,H,N,G)
8. 1/2"C, 5#12 (H,2 SWITCHLEGS,N,G)
9. EXHAUST FAN TO BE SWITCHED 'ON' WITH THE LIGHT.
10. PROVIDE DUAL LEVEL LIGHTING IN THIS ROOM. OUTBOARD AND INBOARD LAMPS ARE ON DIFFERENT WALL SWITCHES.
11. 1/2"C, 4#12 (H,2 SWITCHLEGS,G)
12. 3/4"C, 8#12 (4 TRAVELERS,SWITCHLEG,H,N,G)
13. 1/2"C, 5#12 (4 TRAVELERS,G)
14. 1/2"C, 4#12 (2 SWITCHLEGS,N,G)

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VILLAGE SAFE WATER

VILLAGE OF KONGIGANAK LAUNDRY FACILITY

KONGIGANAK, ALASKA

drawn: AYN
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date: 2/25/00
revisions

job no.: MWAKNG2
dwg. title: ELECTRICAL LIGHTING PLAN UPPER FLOOR
sheet no.

PANEL SCHEDULE

PANEL 'MDP'			208Y120VAC				3Ø, 4 Wire		225A MAINS	
MECHANICAL ROOM			MLO				SURF/NEMA 12		10,000 AIC	
POLE	AMP TRIP	LOAD DESCRIPTION	POLE kVA	A Ø	B Ø	C Ø	POLE kVA	LOAD DESCRIPTION	AMP TRIP	POLE
1	100/3	PANEL 'A'	7.9	18.0			10.1	PANEL 'B'	100/3	2
3			7.0		14.6		7.6			4
5			7.0			11.5	4.5			6
7	20/1	BOILER 1	0.9	1.8			0.9	DRYER MAKE-UP AIR HV-1	15/3	8
9	20/1	BOILER 2	0.9		1.8		0.9			10
11	20/1	WATER HEATER	0.4			1.3	0.9			12
13	20/1	DAY TANK	0.5	1.3			0.8	EXHAUST FAN, EF-6	15/3	14
15	20/1	CIRC PUMP 1A	1.2		2.0		0.8			16
17	20/1	CIRC PUMP 1B	1.2			2.0	0.8			18
19	20/1	DRYER CIRC PUMPS 'CP4-6'	0.8	0.9			0.1	CIRC PUMP 3	15/1	20
21	20/1	DRYER CIRC PUMPS 'CP7-9'	0.8		1.0		0.2	RELAY PANEL 'RP'	15/1	22
23	15/1	'HC-1' MOTORIZED VALVE	0.1			0.5	0.4	FIRE ALARM PANEL	20/1	24
25	20/1	SPARE	0.0	0.0			0.0			26
27	15/1	CIRC PUMP 2A	0.1		0.1		0.0			28
29	15/1	CIRC PUMP 2B	0.1			0.1	0.0			30
				22.0	19.5	15.4				

TOTAL kVA = 56.9
AMPS = 158.1

PANEL SCHEDULE

PANEL 'A'			208Y120VAC				3Ø, 4 Wire		100A MAINS	
MECHANICAL ROOM			MLO				SURF/NEMA 12		10,000 AIC	
POLE	AMP TRIP	LOAD DESCRIPTION	POLE kVA	A Ø	B Ø	C Ø	POLE kVA	LOAD DESCRIPTION	AMP TRIP	POLE
1	15/3	WASHER #1	0.8	1.6			0.8	WASHER #2	15/3	2
3			0.8		1.6		0.8			4
5			0.8			1.6	0.8			6
7	15/3	WASHER #3	0.8	1.6			0.8	WASHER #4	15/3	8
9			0.8		1.6		0.8			10
11			0.8			1.6	0.8			12
13	15/3	WASHER #5	0.8	1.6			0.8	WASHER #6	15/3	14
15			0.8		1.6		0.8			16
17			0.8			1.6	0.8			18
19	20/1	DRYER #1	1.1	2.2			1.1	DRYER #2	20/1	20
21	20/1	DRYER #3	1.1		2.2		1.1	DRYER #4	20/1	22
23	20/1	DRYER #5	1.1			2.2	1.1	DRYER #6	20/1	24
25	15/1	WATER HEATER	0.9	0.9			0.0			26
27			0.0				0.0			28
29			0.0				0.0			30
				7.9	7.0	7.0				

TOTAL kVA = 21.9
AMPS = 60.9

PANEL SCHEDULE

PANEL 'B'			208Y120VAC				3Ø, 4 Wire		100A MAINS	
MECHANICAL ROOM			MLO				SURF/NEMA 12		10,000 AIC	
POLE	AMP TRIP	LOAD DESCRIPTION	POLE kVA	A Ø	B Ø	C Ø	POLE kVA	LOAD DESCRIPTION	AMP TRIP	POLE
1	20/1	RCPTS - MECH RM	0.4	2.0			1.6	LAUNDRY RM/WAIT LTS	20/1	2
3	20/1	RCPTS - LAUNDRY RM	1.0		1.6		0.6	OUTSIDE LTS	20/1	4
5	20/1	RCPTS - RESTROOMS	0.7			1.1	0.4	MECHANICAL RM LTS	20/1	6
7	20/1	RCPTS - OFFICE/WAITING	1.0	1.5			0.5	RESTROOM LTS	20/1	8
9	20/1	RCPTS - VENDING MACH	1.0		1.4		0.4	OFFICE/ENTRY LTS	20/1	10
11	20/1	RCPTS - VENDING MACH	1.0			2.0	1.0	2ND FL OFFICE LTS	20/1	12
13	20/1	RCPTS - 2ND FL OFFICE/STR	1.0	1.7			0.7	2ND FL QTR/ KITCH/BATH LTS	20/1	14
15	20/1	RCPTS - 2ND FL BATH	0.2		0.2		0.0	SPARE	20/1	16
17	20/1	RCPTS - 2ND FL QTRS	0.9			1.2	0.3	UNIT HTRS, CUH 1,2 & UH-1	20/1	18
19	20/1	RCPTS - 2ND FL QTRS	0.7	0.7			0.0			20
21	20/1	RCPT - KITCHEN	0.2		0.2		0.0			22
23	20/1	RCPT - KITCHEN	0.2			0.2	0.0			24
25	50/2	RANGE	4.2	4.2			0.0			26
27			4.2		4.2		0.0			28
29			0.0			0.0	0.0			30
				10.1	7.6	4.5				

TOTAL kVA = 22.2
AMPS = 61.7

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VILLAGE SAFE WATER

VILLAGE OF KONGIGANAK
LAUNDRY FACILITY
KONGIGANAK, ALASKA

drawn AYN
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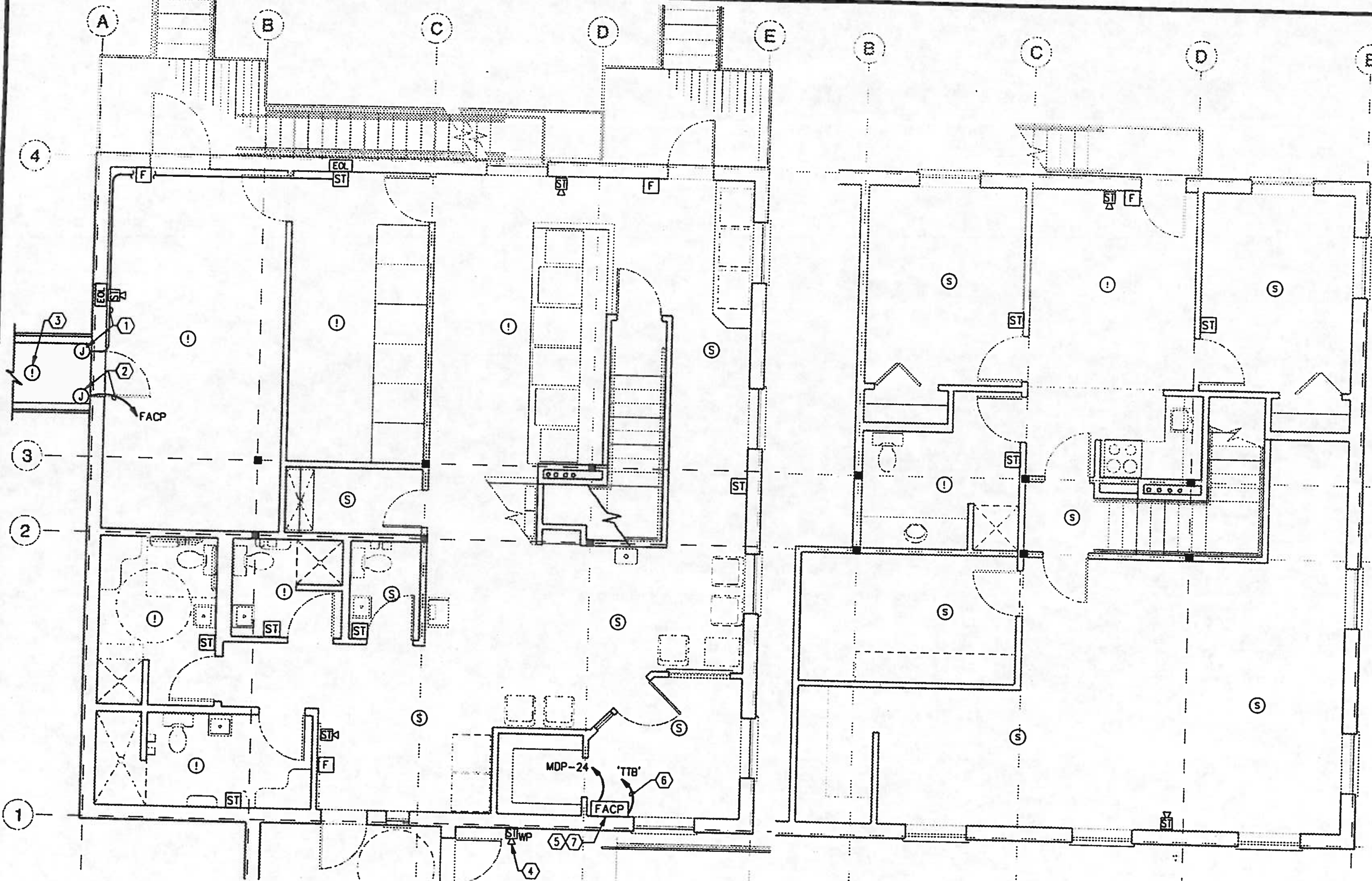
revisions

job no. MWAKNIC2
dwg. title
ELECTRICAL SITE PLAN
ELECTRICAL
PANEL SCHEDULES

sheet no.
E2



LOWER FLOOR PLAN

UPPER FLOOR PLAN

NOTES

1. 1/2"C, WITH NYLON PULL STRING, FOR FUTURE INDICATING APPLIANCE CIRCUITS.
2. 3/4"C, WITH NYLON PULL STRING, FOR FUTURE INITIATING DEVICE CIRCUITS.
3. INSTALL HEAT DETECTOR IN CENTER OF UTILIDOR.
4. PROVIDE WEATHERPROOF BOX FOR EXTERIOR HORN/STROBE. EDWARDS #757A-WB.
5. MOUNT DIALER BELOW FACP.
6. 1/2"C, (1) 4-WIRE TELEPHONE CABLE.
7. THE FIRE ALARM PANEL SHALL BE PROVIDED WITH AT LEAST ONE SPARE IDC MODULE, BATTERY CHARGER AND BATTERIES. BATTERIES SHALL BE SIZED TO PROVIDE 24 HOURS OF NORMAL STANDBY OPERATION FOLLOWED BY 5 MINUTES OF ALARM OPERATION ASSUMING TWICE THE NUMBER OF INDICATING AND INITIATING DEVICES SHOWN. THE INTENT IS FOR THIS PANEL TO HAVE ENOUGH SPACE CAPACITY TO SERVE THE EXISTING LAUNDRY FACILITY IN THE FUTURE. SUBMIT BATTERY CALCULATIONS FOR APPROVAL.
8. 1/2"C, 3#12 (2 SIG,G)
9. 1/2"C, 5#12 (4 SIG,G)
10. 2#12, NON-SILENCEABLE IAC ROUTED IN SAME CONDUIT AS NOTE 11.
11. 2#12, SILENCEABLE IAC

GENERAL SPECIFICATIONS

1. THE FIRE ALARM SYSTEM SHALL BE INSTALLED PER NFPA 72 REQUIREMENTS BY OR UNDER THE SUPERVISION OF A NICET CERTIFIED TECHNICIAN.

2. THE FIRE ALARM SYSTEM SHALL BE ZONED, NON-CODED WITH: TWO EACH STYLE 'Y', CLASS B IACs (1-SILENCEABLE, 1-UNSILENCEABLE) & SIX EACH STYLE 'B', CLASS B IDCs.

3. INSTALL ALL EQUIPMENT PER MANUFACTURER INSTRUCTIONS.

4. SYSTEM SHALL BE COMPLETELY TESTED BY A NICET TECHNICIAN.

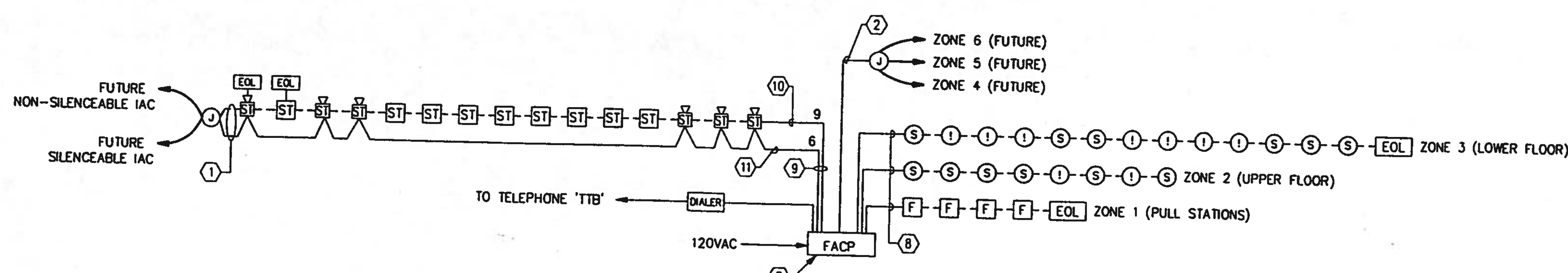
5. A MANUFACTURER'S REP SHALL PROVIDE A MINIMUM OF 4 HOURS OF ON-SITE INSTRUCTION TO THE OWNER'S PERSONNEL ON THE O&M OF THE SYSTEM.

SEQUENCE OF OPERATION

UPON OPERATION ANY PULL STATION OR ACTIVATION OF ANY SMOKE OR HEAT DETECTOR, ALL HORNS & STROBES SHALL ANNUNCIATE. THE ZONE IN ALARM SHALL BE DISPLAYED AT THE FACP. IF THE ALARM IS ACKNOWLEDGED, THE HORNS WILL SILENCE BUT THE STROBES WILL CONTINUE TO OPERATE UNTIL THE ALARM CONDITION IS CLEARED. IF THE ALARM IS NOT ACKNOWLEDGED WITHIN 5 MINUTES THE DIALER WILL TRANSMIT A FIRE ALARM MESSAGE TO THE NUMBER(S) SPECIFIED BY THE OWNER

FIRE ALARM LEGEND

F	MANUAL FIRE ALARM STATION (+42"), SAFETY TECHNOLOGY INTERNATIONAL MODEL #STI1100 OR EQUAL.
FACP	FIRE ALARM CONTROL PANEL, EDWARDS MODEL # EST1-2Z6 OR EQUAL.
S	IONIZATION SMOKE DETECTOR, EDWARDS MODEL #6250B W/CAT #6251B-001A BASE OR EQUAL.
I	HEAT DETECTOR, FIXED TEMPERATURE (194°), EDWARDS MODEL # 284B W/CAT # 280A-PL MOUNTING PLATE.
ST (horn)	HORN STROBE, EDWARDS MODEL # 757-7A-T OR EQUAL.
ST	STROBE, EDWARDS MODEL #405-7A-T OR EQUAL
EOL	END OF LINE RESISTOR
DIALER	AUTODIALER, UNITED SECURITY PRODUCTS MODEL #AD-2000
IAC	INDICATING APPLIANCE CIRCUIT
IDC	INITIATING DEVICE CIRCUIT



FIRE ALARM RISER DIAGRAM
NOT TO SCALE

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VILLAGE OF KONGIGANAK LAUNDRY FACILITY

KONGIGANAK, ALASKA

drawn	ATN
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date	2/25/00
revisions	
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sheet no.	E7