ABBREVIATIONS

THESE ABBREVIATIONS MAY NOT ALL BE USED IN THESE CONSTRUCTION DOCUMENTS.
CIVIL, STRUCTURAL, MECHANICAL, AND ELECTRICAL ABBREVIATIONS ARE NOT INCLDED IN THIS LISTING.

&, &	AND	LG	LIGHTGUARD ROOF INSULATION	W/	WITH
∠	ANGLE			W/O	WITHOUT
@	AT	UKR.	LOCKER	W.C.	WATER CLOSET
℄	CENTERLINE	LOC.	LOCATION	W.L.	WIND LOAD
Ø	DIAMETER	LT.	LIGHT	W.F.	WASH FOUNTAIN
#	POUND OR NUMBER	MAT.	MATERIAL	W.W.F.	WELDED WIRE FABRIC
ACOUS.	ACOUSTICAL	MAX.	MAXIMUM	W.P.	WATERPROOF
ACOUS. P.	ACOUSTICAL PANEL	M.B.	MACHINE BOLT	WD.	WOOD
A.B.	ANCHOR BOLT	MECH.	MECHANICAL	WDW.	WINDOW
A.D.	ACCESS DOOR	MEMB.	MEMBRANE	WLT.	WORK LIMIT
ADD.	ADDITIONAL	MET.	METAL	WSCT.	WAINSCOT
ADJ.	ADJUSTABLE	MFR	MANUFACTURER	WHSE.	WAREHOUSE
A.F.F.	ABOVE FINISH FLOOR	MH.	MANHOLE	WP.	WEATHERPROOF
AGGR.	AGGREGATE	MIN.	MINIMUM	WR.	WASHROOM
ALUM.	ALUMINUM	MIR.	MIRROR	WS.	WEATHERSTRIPPING
ALT.	ALTERNATE	MISC.	MISCELLANEOUS	WT.	WEIGHT
ADA	AMERICANS WITH DISABILITIES ACT	MJ	MEMBRANE JOINT		
A.P.	ACCESS PANEL	MUL.	MULLION		
APPROX.	APPROXIMATE	N.	NORTH		
ARCH.	ARCHITECTURAL	N.I.C.	NOT IN CONTRACT		
ASPH.	ASPHALT	NO.	NUMBER		
ASSOC.	ASSOCIATED	NOM.	NOMINAL		
AUX.	AUXILIARY	N.T.S.	NOT TO SCALE		
BD.	BOARD	O.A.	OVERALL		
BLDG.	BUILDING	O.C.	ON CENTER		
BLK.	BLOCKING	O.D.	OUTSIDE DIAMETER		
BM.	BEAM	O.F.C.I.	OWNER FURNISHED, CONTRACTOR INSTALLED		
B.O.	BOTTOM OF				
BOT.	BOTTOM	OFF.	OFFICE		
BUR	BUILT UP ROOFING	O.F.S.	OVERFLOW SCUPPER		
CAB.	CABINET	OPNG.	OPENING		
CANT.	CANTILEVER	OPP.	OPPOSITE		
C.	CHANNEL	ORD	OVERFLOW ROOF DRAIN		
C.B.	CATCH BASIN	P.	PLASTER		
CEM.	CEMENT	P.C.C.	PRECAST CONCRETE		
CER.	CERAMIC	PL.	PLATE		
C.G.	CORNER GUARD	PLS.	PLASTIC		
C.J.	CONTROL JOINT	P.LAM.	PLASTIC LAMINATE		
CLG.	CEILING	PLYWD.	PLYWOOD		
CLR.	CLEAR	PR.	PAIR		
C.M.U.	CONCRETE MASONRY UNITS	PS	PROJECTION SCREEN		
C.O.	CLEANOUT	PT.	PAINT		
COL.	COLUMN	P.T.	PRESERVATIVE TREATED		
CONC.	CONCRETE	PTBD	PARTICLE BOARD		
CONN.	CONNECTION	P.T.D.	PAPER TOWEL DISPENSER		
CONSTR.	CONSTRUCTION	P.T.D./R	PAPER TOWEL DISPENSER & RECEPTACLE		
CONT.	CONTINUOUS				
CORR.	CORRIDOR				
CTR.	CENTER	Q.T.	QUARRY TILE		
CTSK.	COUNTERSINK	R.	RISER		
CNTR.	COUNTER	RAD.	RADIUS		
CUH	CABINET UNIT HEATER	RCP	REFLECTED CEILING PLAN		
DBL.	DOUBLE	RD	ROOF DRAIN		
DET.	DETAIL	REF.	REFERENCE		
D.F.	DRINKING FOUNTAIN	REINF.	REINFORCED		
DIA.	DIAMETER	REQ.	REQUIRED		
DIM.	DIMENSION	RES.	RESILIENT		
DISP.	DISPENSER	RM.	ROOM		
DN.	DOWN	RMS.	RIBBED METAL SIDING		
DR.	DOOR	R.O.	ROUGH OPENING		
DWG.	DRAWING	RWL	RAIN WATER LEADER		
E.	EAST	S.	SOUTH		
EA.	EACH	SAM	SELF ADHERING MEMBRANE		
E.I.F.S.	EXTERIOR INSULATION & FINISH SYSTEM	S.C.	SOLID CORE		
		SCHED.	SCHEDULE		
EL OR ELEV.	ELEVATION	S.D.	SOAP DISPENSER		
ELEC.	ELECTRICAL	SECT.	SECTION		
EMER.	EMERGENCY	S.F.	SQUARE FEET		
ENCL.	ENCLOSURE	SH.	SHELF		
EOFS	EMERGENCY OVERFLOW SCUPPER	SHR.	SHOWER		
		SIM.	SIMILAR		
E.P.	ELECTRICAL PANEL	S.M.	SHEET METAL		
EPDM	ETHYLENE PROPYLENE DIENE TERPOLYMER	SNR	SANITARY NAPKIN RECEPTACLE		
EPS	EXPANDED POLYSTYRENE INSULATION BOARD	SPEC.	SPECIFICATION		
		SQ.	SQUARE		
		S.S.	STAINLESS STEEL		
EQ.	EQUAL	S.SK.	SERVICE SINK		
EQUIP.	EQUIPMENT	S.S.M.H.	STORM SEWER MAN HOLE		
EXIST.	EXISTING	STA.	STATION		
EXP.	EXPANSION	STD.	STANDARD		
EXP. JT.	EXPANSION JOINT	STL.	STEEL		
EXPS	EXTRUDED POLYSTYRENE INSULATION BOARD	STOR.	STORAGE		
		STRUCT.	STRUCTURAL		
EXT.	EXTERIOR	SUBFLR.	SUBFLOOR		
F.A.	FIRE ALARM	SUBSTR.	SUBSTRUCTURE		
F.D.	FLOOR DRAIN	SURF.	SURFACE		
FDN.	FOUNDATION	SUSP.	SUSPENDED		
F.E.	FIRE EXTINGUISHER	SV	SMOKE VENT		
F.E.C.	FIRE EXTINGUISHER CABINET	S.W.	SOUTHWEST		
		S.W.P.	SANITARY WALL PANEL		
F.F.	FINISH FLOOR	SYM.	SYMMETRICAL		
F.G.	FINISH GRADE	T.	TREAD		
FIN.	FINISH	TACKBD.	TACKBOARD		
FL.	FLOOR	T.B.	TOWEL BAR		
FLASH.	FLASHING	T.B.H.M.	THERMALLY BROKEN HOLLOW METAL		
FLUOR.	FLUORESCENT				
F.O.C.	FACE OF CONCRETE	T.C.	THIS CONTRACT		
F.O.F.	FACE OF FINISH	TEL.	TELEPHONE		
F.O.S.	FACE OF STUD	TEMP.	TEMPERED		
FPRFG.	FIREPROOFING	TERR.	TERRAZO		
F.R.T.	FIRE RETARDANT TREATED	T&G	TONGUE & GROOVE		
		THERMO.	THERMOSTAT		
F.S.	FINISH SURFACE	THK.	THICK		
FT.	FOOT OR FEET	T.O.	TOP OF		
FTG.	FOOTING	T.O.B.	TOP OF BLOCKING		
FURR.	FURRING	T.O.C.	TOP OF CURB		
FUT.	FUTURE	T.O.D.	TOP OF DECK		
GA.	GAUGE	T.O.P.	TOP OF PARAPET		
GALV.	GALVANIZED	T.P.	TOP OF PAVEMENT		
G.B.	GRAB BAR	T.T.D.	TOILET TISSUE DISPENSER		
GL.	GLASS	T.T.H.	TOOTHBRUSH & TUMBLER HOLDER		
GND.	GROUND				
GR.	GRID LINE	T.S.	TUBE STEEL		
GYP.	GYPSUM	T.V.	TELEVISION		
G.W.B.	GYPSUM WALL BOARD	T.W.	TOP OF WALL		
		T.W.C.	TEXTILE WALL COVERING		
H.	HIGH	TYP.	TYPICAL		
H.B.	HOSE BIBB	U.	URINAL		
H.C.	HOLLOW CORE	UCTR.	UNDERCOUNTER		
HDWE.	HARDWARE	U.H.	UNIT HEATER		
H.M.	HOLLOW METAL	UGND.	UNDERGROUND		
HORIZ.	HORIZONTAL	UNFIN.	UNFINISHED		
HR.	HOUR	U.R.	UNDERCOUNTER REFRIGERATOR		
HGT.	HEIGHT	UTIL.	UTILITY		
I.H.M.	INSULATED HOLLOW METAL	U.N.O.	UNLESS NOTED OTHERWISE		
		VIF	VERIFY IN FIELD		
INSUL.	INSULATION	V.P.	VENT PIPE		
INT.	INTERIOR	V.R.	VAPOR RETARDER		
JAN.	JANITOR	VERT.	VERTICAL		
JT.	JOINT	VEST.	VESTIBULE		
KIT.	KITCHEN	VCT.	VINYL COMPOSITION TILE		
LAB.	LABORATORY	VNL.	VINYL		
LAM.	LAMINATE	VTR.	VENT THROUGH ROOF		
LAV.	LAVATORY	V.W.C.	VINYL WALL COVERING		
		W.	WEST/WIDE/WIDTH		

MATERIAL INDICATIONS

- ACOUSTICAL TILE
- EARTH
- CERAMIC TILE
- CONCRETE
  CAST IN PLACE OR PRECAST
- CONCRETE MASONRY UNIT
- GYPSUM WALL BOARD
  OMIT DBL. LINES AT SMALL SCALES
- GLASS
  OMIT INDICATION AT SMALL SCALES
- INSULATION, BLANKET
- INSULATION, RIGID (FOAM PLASTICS)
- METAL
  OMIT INDICATION AT SMALL SCALES
- PLYWOOD
- ROCK FILL
- WOOD, FINISH
- WOOD, CONTINUOUS
  FRAMING MEMBER
- WOOD, INTERRUPTED
  FRAMING MEMBER
- ROOF CUT LOCATION
- PLUMBING VENT THRU ROOF (VTR)
- PIPE THRU ROOF (PTR)
  ELECTRICAL THRU ROOF (ETR)
- ROUND INSULATED HOT STACK
- ROUND SHEET METAL VENT
- ROOF HATCH
- DUCT THRU ROOF
- SMOKE VENT
- CAPPED VENT
- CURBED VENT W/ FIBERGLASS HOOD
- EXISTING ROOF DRAIN
- NEW ROOF DRAIN OR ORD
- EXISTING SCUPPER
- SCUPPER, O.F.S, OR EOFS
- ROOF DRAINAGE DIRECTION

DRAWING SYMBOLS

- GR — COLUMN / GRID LINE
- X / A0.0 / A0.0 — BUILDING SECTION LETTER; SHEET NO. ON WHICH SECTION IS DRAWN; SHEET NO. FROM WHICH SECTION IS REFERENCED
- X / A0.0 / A0.0 — WALL SECTION NUMBER; SHEET NO. ON WHICH SECTION IS DRAWN; SHEET NO. FROM WHICH SECTION IS REFERENCED
- X / A0.0 / A0.0 — DETAIL NUMBER; SHEET NO. ON WHICH DETAIL IS DRAWN; SHEET NO. FROM WHICH DETAIL IS REFERENCED
- X / A0.0 / A0.0 — ORIENTATION OF WALL ELEVATION DRAWN (N,E,S,W); ELEVATION NUMBER / LETTER; SHEET NO. ON WHICH ELEVATION IS DRAWN; SHEET NO. FROM WHICH ELEVATION IS REFERENCED
- ROOM NAME / A101 — ROOM NAME AND NUMBER
- A1 — WALL TYPE REFERENCE SYMBOL
- 0000 / 0 — DOOR SWING; DOOR NUMBER
- DATUM / CONTROL POINT

1994 UNIFORM BUILDING CODE REVIEW

THIS CODE REVIEW IS FOR THE ENTIRE BUILDING AND INCLUDED AREAS OF BUILDING COMPLETED UNDER A PREVIOUS CONTRACT. NEW WORK SCOPE INCLUDES AREA E, DESIGNATED WORK SCOPE IN OTHER AREAS OF BUILDING PLUS DESIGNATED EXTERIOR WORK SITES.

1. CLASSIFY THE BUILDING:
A. OCCUPANCY CLASSIFICATION:
E1 – EDUCATIONAL
ANY BUILDING USED FOR THE EDUCATIONAL PURPOSE THROUGH THE 12th GRADE BY 50 OR MORE PERSONS FOR MORE THAN 12 HOURS PER WEEK OR FOUR HOURS IN ONE DAY.

B – BUSINESS/OFFICE

A2.1 – ASSEMBLY
A BUILDING OR PORTION OF A BUILDING HAVING AN ASSEMBLY ROOM WITH AN OCCUPANT LOAD OF 300 OR MORE WITHOUT A LEGITIMATE STAGE, INCLUDING SUCH BUILDINGS USED FOR EDUCATIONAL PURPOSES AND NOT CLASSED AS A GROUP E OR GROUP B OCCUPANCY.

A3 – ASSEMBLY
ANY BUILDING OR PORTION OF A BUILDING HAVING AN ASSEMBLY ROOM WITH AN OCCUPANT LOAD LESS THAN 300 WITHOUT A LEGITIMATE STAGE, INCLUDING SUCH BUILDINGS USED FOR EDUCATIONAL PURPOSES AND NOT CLASSED AS A GROUP E OR GROUP B OCCUPANCY.

S1 – STORAGE
MODERATE HAZARD STORAGE OCCUPANCIES INCLUDING BUILDINGS OR PORTIONS OF BUILDINGS USED FOR STORAGE OF COMBUSTIBLE MATERIALS NOT CLASSIFIED AS GROUP S, DIVISION 2 OR GROUP H OCCUPANCIES.

UBC TABLE 3-B (OCCUPANCY SEPARATION)
B–E 1 HOUR HOWEVER NO REQUIREMENTS PER SEC 302.1 EXCEPTION #2.2 (B DOES NOT EXCEED 25% OF FLOOR AREA OF MAJOR USE.)
A2.1/A3–E NO REQUIREMENTS FOR FIRE RESISTANCE
S1–E 1 HOUR
SECTION 305 REQUIREMENTS FOR GROUP E OCCUPANCIES.
SECTION 305.2.4 SPECIAL HAZARDS – LABORATORIES, VOCATIONAL SHOPS AND SIMILAR AREAS CONTAINING HAZARDOUS MATERIALS SHALL BE SEPARATED FROM EACH OTHER AND FROM OTHER PORTIONS OF THE BUILDING BY NOT LESS THAN A ONE-HOUR FIRE-RESISTIVE OCCUPANCY SEPARATION.

B. TYPE OF CONSTRUCTION:
BUILDING AREAS A & B: ☑ ONE-HOUR (SPRINKLER UPGRADE TO ONE HOUR)
BUILDING AREAS C, D, E, F: ☑ ONE-HOUR (SPRINKLERED)

C. LOCATION ON PROPERTY:
CLEARANCES TO PROPERTY LINE:
NORTH: VARIES 170' MINIMUM
SOUTH: VARIES 275' MINIMUM TO ℄ OF ARCTIC AVE.
EAST: VARIES 60' MINIMUM TO ℄ OF INDUSTRIAL DRIVE.
WEST: VARIES 350' MINIMUM

D. ALLOWABLE FLOOR AREA:
NOTE: THE BUILDING WILL BE SEPARATED BY A TWO-HOUR AREA SEPARATION WALL AT GRID 15.

AREA A & B TO THE WEST OF THE SEPARATION WALL WILL BE ☑ ONE-HOUR CONSTRUCTION USING AN APPROVED AUTOMATIC SPRINKLER SYSTEM PER UBC SECTION 50B FIRE RESISTIVE SUBSTITUTION FOR ONE-HOUR CONSTRUCTION.

AREAS C, D, E, F TO THE EAST OF THE SEPARATION WALL WILL BE ☑ ONE-HOUR CONSTRUCTION USING THE APPROVED AUTOMATIC SPRINKLER SYSTEM PER SECTION 505.3 TO INCREASE THE ALLOWABLE AREA.

AREA A & B ALLOWABLE AREA – TABLE 5-C:
A2.1 – ☑ ONE-HOUR = 10,500 SF x 2 (SEC. 505.1.2 SEP. 3 SIDES) = 21,000 SF
E1 – ☑ ONE-HOUR = 15,700 SF x 2 (SEC. 505.1.2 SEP. 3 SIDES) = 31,400 SF
AREA A & B ACTUAL AREA
A2.1 = 6,600 SF
E1 = 21,700 SF

AREA A & B SEC. 505 (c) ALLOWABLE FLOOR AREA OF MIXED OCCUPANCIES

$$\frac{A2.1\ (ACTUAL)}{A2.1\ (ALLOW)} + \frac{E1\ (ACTUAL)}{E1\ (ALLOW)} \leq 1 \quad \frac{6,600\ SF}{21,000\ SF} + \frac{21,700\ SF}{31,400\ SF} \leq 1 \quad 0.31 + 0.69 = 1 \quad 1 \leq 1$$

THE ACTUAL AREAS ARE LESS THAN OR EQUAL TO ONE, THEREFORE THE AREA SEPARATION WALL AT GRID 15 IS IN COMPLIANCE.

AREA C, D, E, F ALLOWABLE AREA – TABLE 5-C:
A2.1 – ☑ ONE-HOUR = 10,500 SF x2 (SEC 505.1.2 SEP. 3 SIDES) x3 (SEC 505.3 AUTO SPRINKLER SYSTEM)= 63,000 SF
A3 – ☑ ONE-HOUR = 10,500 SF x2 (SEC 505.1.2 SEP. 3 SIDES) x3 (SEC 505.3 AUTO SPRINKLER SYSTEM) = 63,000 SF
B – ☑ ONE-HOUR = 14,000 SF x2 (SEC 505.1.2 SEP. 3 SIDES) x3 (SEC 505.3 AUTO SPRINKLER SYSTEM) = 84,000 SF
E – ☑ ONE-HOUR = 15,700 SF x2 (SEC 505.1.2 SEP. 3 SIDES) x3 (SEC 505.3 AUTO SPRINKLER SYSTEM) = 94,200 SF

AREA C, D, E, F ACTUAL AREA
A2.1 = 11,300 SF
A3 = 8,600 SF
E1 = 50,900 SF
B = 4,100 SF
TOTAL = 74,900 SF

AREA C, D, E, F ALLOWABLE RATIO SEC. 505 (c) ALLOWABLE FLOOR AREA OF MIXED OCCUPANCIES

$$\frac{A2.1\ (ACTUAL)}{A2.1\ (ALLOW)} + \frac{A3\ (ACTUAL)}{A3\ (ALLOW)} + \frac{E1\ (ACTUAL)}{E1\ (ALLOW)} + \frac{B\ (ACTUAL)}{B\ (ALLOW)} \leq 1$$

$$\frac{11,300\ SF}{63,000\ SF} + \frac{8,600\ SF}{63,000\ SF} + \frac{50,900\ SF}{94,200\ SF} + \frac{4,100\ SF}{84,000\ SF} \leq 1$$

$$0.18 + 0.14 + 0.54 + 0.05 = 0.91 \quad 0.91 \leq 1$$

THE ACTUAL AREAS ARE LESS THAN OR EQUAL TO ONE, THEREFORE THE AREA SEPARATION WALL AT GRID 15 IS IN COMPLIANCE.

TOTAL ACTUAL BUILDING AREA
AREA A, B ACTUAL AREA = 28,300 SF
AREA C, D, E, F ACTUAL AREA = 74,900 SF
TOTAL = 103,200 SF

2. REVIEW OF EXITING REQUIREMENTS:
SEE OCCUPANT LOAD AND EXITS ON SHEET AF2.1

EXITING WIDTH: SEC 1003.2 AND SEC 1017
(OCCUPANT LOAD x.2 = TOTAL WIDTH OF EXIT IN INCHES.)

NOTE: SEC 1017.5 E1 OCCUPANCY
WIDTH OF CORRIDOR SHALL BE REQUIRED BY SEC 1003 PLUS 2 FEET, BUT NOT LESS THAN 6 FEET.
EXCEPTION: NUMBER OF OCCUPANTS SERVED IS 100 OR LESS THE CORRIDOR MAY BE 44 INCHES WIDE.

1002.1 DETERMINATION OF OCCUPANT LOAD

1002.1.1 AREA TO BE INCLUDED.
IN DETERMINING THE OCCUPANT LOAD, ALL PORTIONS OF A BUILDING SHALL BE PRESUMED TO BE OCCUPIED AT ALL TIMES.

EXCEPTION:
ACCESSORY USE AREAS WHICH ORDINARILY ARE USED ONLY BY PERSONS WHO OCCUPY THE MAIN AREA OF AN OCCUPANCY SHALL BE PROVIDED WITH EXITS AS THOUGH THEY ARE COMPLETELY OCCUPIED, BUT THEIR OCCUPANT LOAD NEED NOT BE INCLUDED IN COMPUTING THE TOTAL OCCUPANT LOAD OF THE BUILDING.

REV.	DATE	C.O.	ACTION	DESCRIPTION	BY	APP'D.

CONTRACT NO. _____
CONTRACTOR _____
CITY _____ STATE _____

RECOMMENDED: _____ PRIME CONTRACTOR
APPROVED: _____ RESIDENT ENGINEER
DATE: _____

USKH — A quarter century of design for Alaskans

ALASKA DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

DESIGNED: HAP
DRAWN: MAF
TRACED:
CHECKED: MHS
SUBMITTED:
CH. SECT.

BEN EIELSON JR./SR. HIGH SCHOOL – PHASE 3
EIELSON AIR FORCE BASE, ALASKA
ARCHITECTURAL

PROJECT INFORMATION SHEET

RECOMMENDED: _____ CHIEF, MILITARY TECHNICAL ENGINEERING BRANCH
APPROVED: _____ CHIEF ENGINEERING DIVISION
DATE: _____

SCALE: AS NOTED
SPEC. NO.
DRAWING NUMBER 29-02-38
SHEET OF

REFERENCE NO. T3