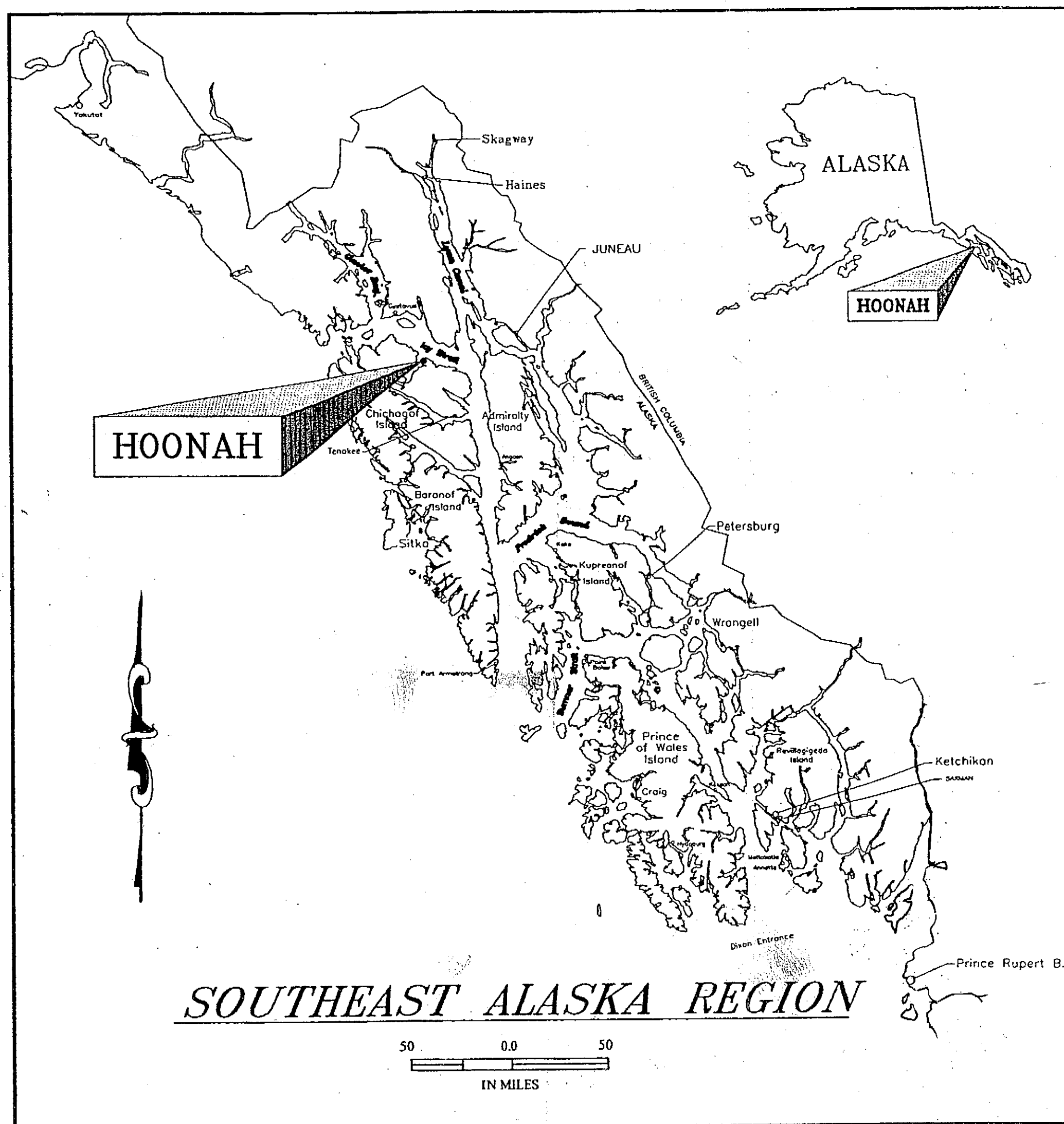


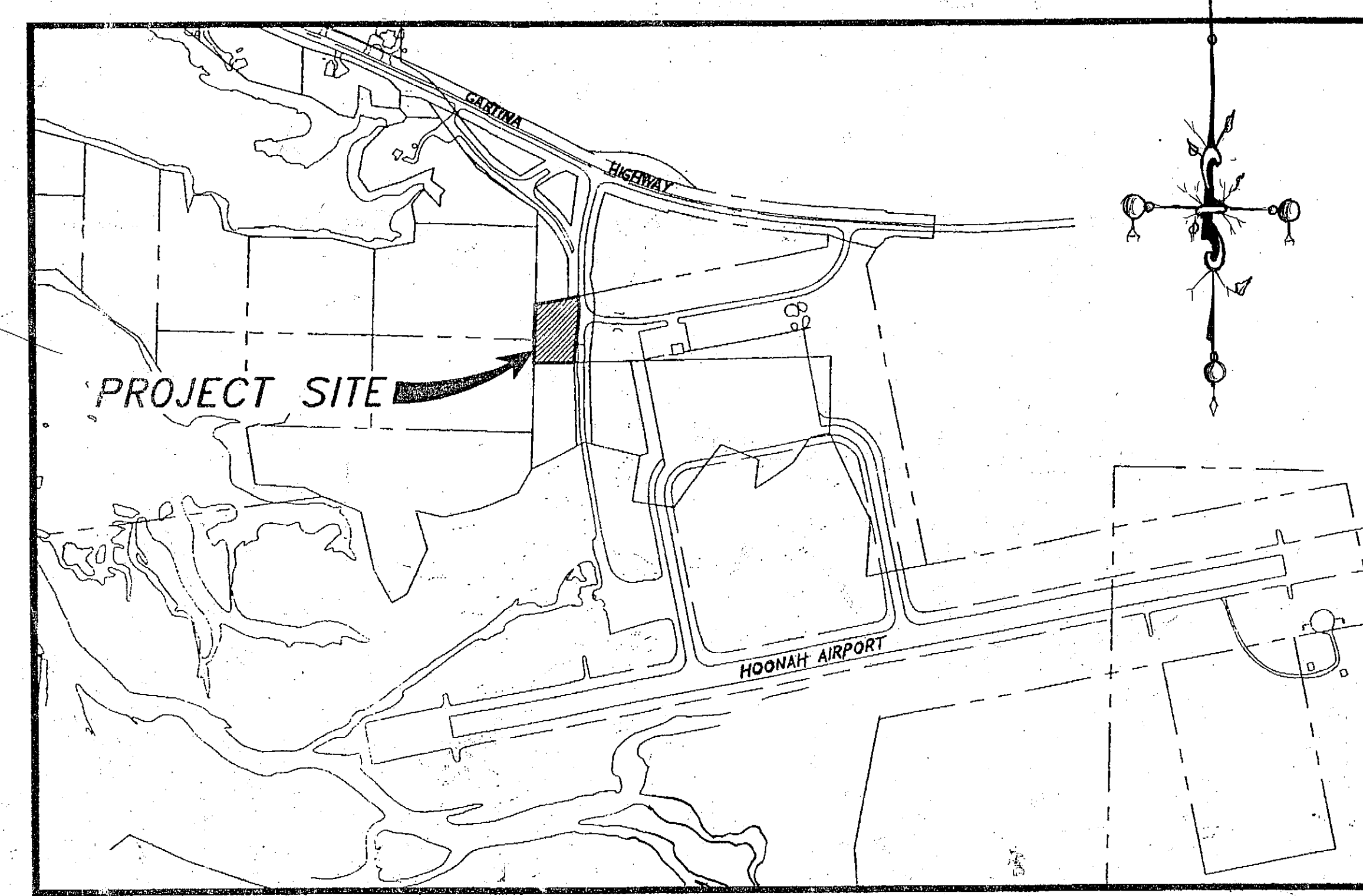


STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION

HOONAH, ALASKA

HOONAH-AIRPORT SNOW
REMOVAL EQUIPMENT BUILDING

PROJECT No. 68389 / AIP 3-02-0125-0403



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C2	SITE UTILITY PLAN
C3	SITE GRADING PLAN
C4	SITE CROSS SECTIONS
C5	CONSTRUCTION DETAILS
C6	CONSTRUCTION DETAILS
C7	EROSION CONTROL PLAN
A001	ARCH. SYMBOLS & SCHEDULES
A201	FIRST FLOOR PLAN
A202	MEZZANINE PLAN
A301	ENLARGED FLOOR PLANS
A401	ELEVATIONS
A402	ELEVATIONS
A501	SECTIONS
A601	STAIR SECTION
A701	DETAILS
A702	DETAILS
A801	DETAILS
S1	STRUCTURAL GENERAL NOTES
S2	FOUNDATION PLAN
S3	FOUNDATION DETAILS
M101	MECHANICAL SYMBOLS AND SCHEDULES
M201	FIRST FLOOR PLAN
M202	MEZZANINE PLAN
M203	FOUNDATION/RADIANT FLOOR HEATING PLAN
M301	PLUMBING AND PIPING DIAGRAM
M302	DETAILS
M303	DETAILS
M401	CONTROL SCHEMATIC
E001	ELECTRICAL SITE PLAN
E101	FIRST FLOOR-POWER
E102	MEZZ. ELEC., MECH EQUIP SCH, LEGEND, BOILER CONTROL
E103	PANEL SCHEDULE, SINGLE LINE DIAGRAM
E201	LIGHTING PLAN
E202	LUMINAIRE SCHEDULE, LIGHTING CONTROL SCHEMATIC
E203	LIGHT POLE AND TRENCH DETAILS
E301	FIRST FLOOR PLAN-SIGNAL
E302	RISER DIAGRAM

* AS-BUILT DRAWING SET

Contractor: Dawson Construction
Amount: \$1,029,114.00
Project Engineer: A. Culbreth
Project Begin Date: April 15, 2001
Project End Date: November 12, 2001

APPROVED
Patrick J. Kemp, P.E.
Regional Preconstruction Engineer
Date: 11/29/03

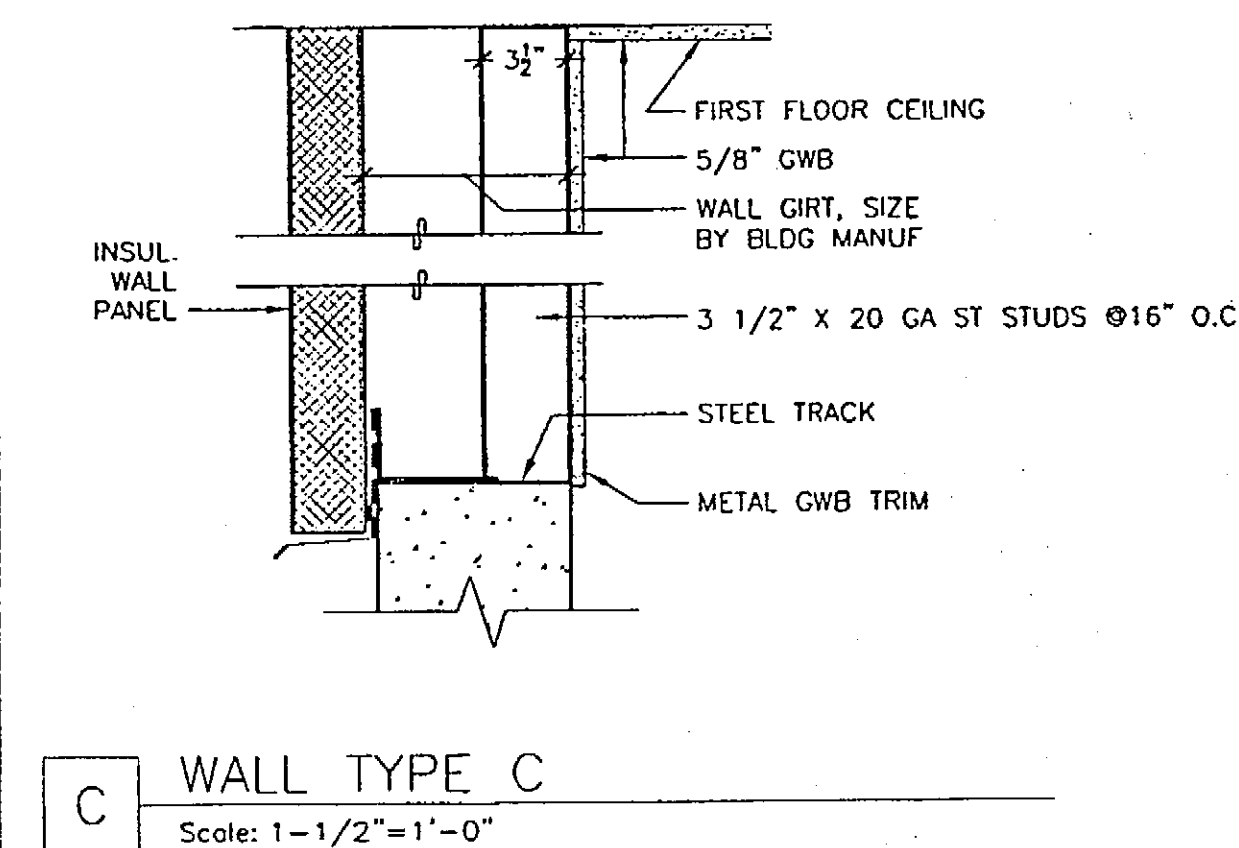
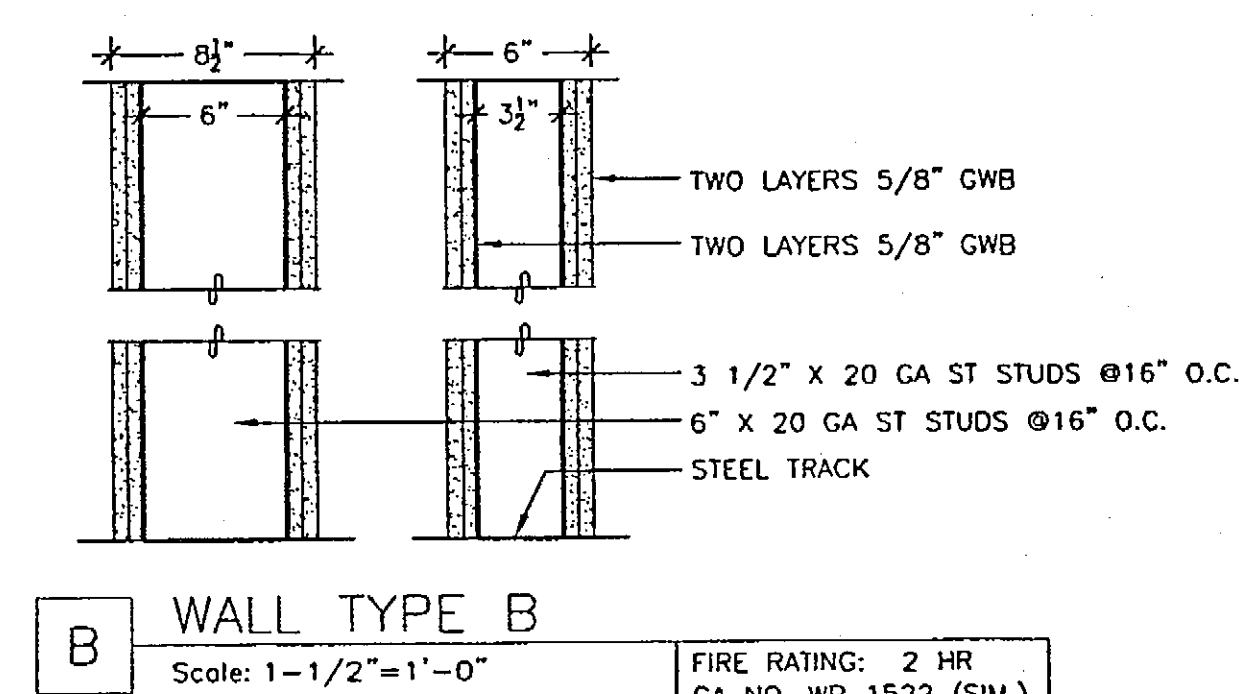
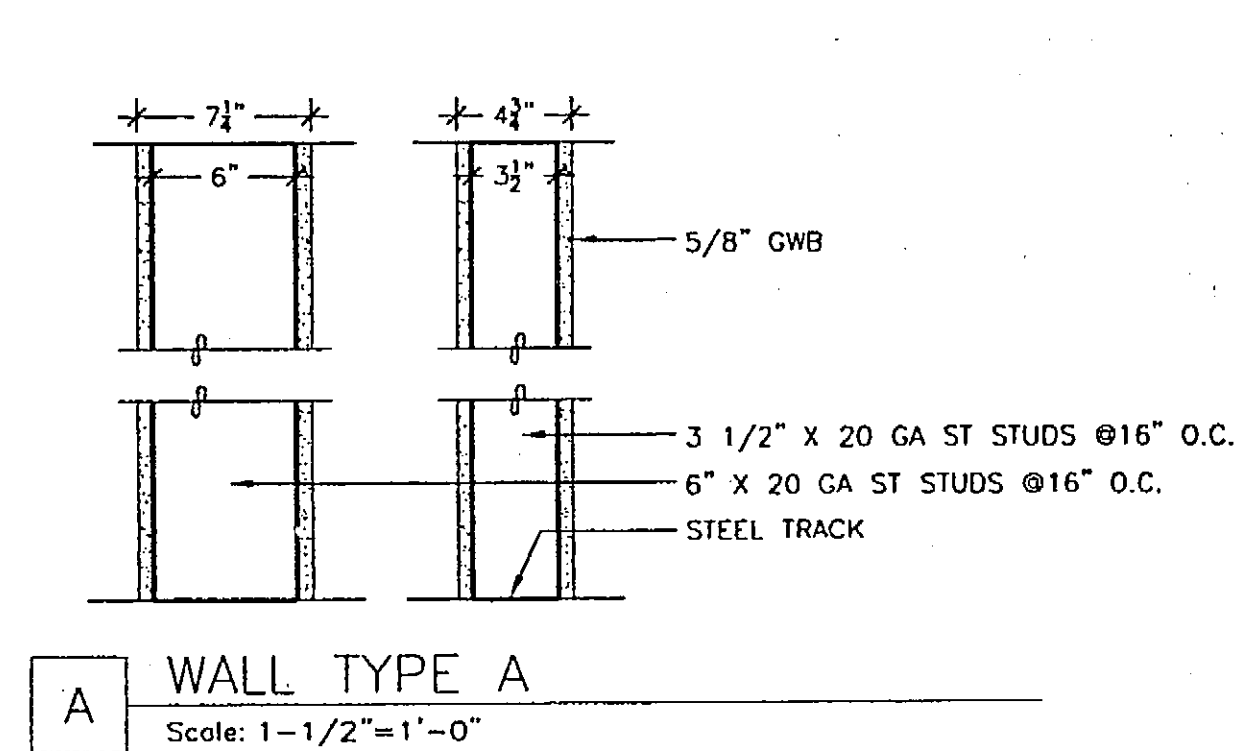
APPROVED
Gary L. Payton
Regional S.E. Director
Date: 11/20/03

PLANS DEVELOPED BY: R&M ENGINEERING, INC.

PROJECT NUMBER: 68389 AIP 3-02-0125-0403 DATE: 11/17/03 SHEET 1 OF 39	ENGINEER'S SEAL STATE OF ALASKA MICHAEL C. STORY No. 8551-CE REGISTERED PROFESSIONAL ENGINEER
--	---

I:\2001\68389\011459.5\1.dwg COVER1.dwg PLOT: November 20, 2003 at 11:17am

WALL TYPES



NOTES
GENERAL NOTE: PARTITION TYPE EXTENDS FROM CORNER TO CORNER FOR THE WALL ON WHICH THE SYMBOL OCCURS. DETAILS AND NOTES FOR SPECIFIC AREAS TAKE PRECEDENCE OVER WALL TYPES.

FRAMING: SPACE STUDS AT 16" O.C. UNLESS OTHERWISE NOTED. ALL STUDS AND FURRING 20GA U.O.N. EXTEND METAL STUDS TO ROOF OR FLOOR STRUCTURE ABOVE.

BLOCKING: PROVIDE 14 GA GALV. STEEL SHEET FROM STUD TO STUD AT MOUNTING LOCATIONS FOR HANDRAILS, TOILET ACCESSORIES, OR OTHER WALL MOUNTED DEVICES. ATTACH WITH 3 NO. 12 GALV. SCREWS AT EACH STUD.

ABBREVIATIONS

AB	ANCHOR BOLT(S)	EP	ELECTRICAL PANELBOARD	MTD	MOUNTED	RESIST	RESISTANT
ACOUS	ACOUSTIC(AL)	EQ	EQUAL	MTL	METAL	RCTR	REGISTER
ADJ	ADJUSTABLE	EQP	EQUIPMENT	MUL	MULLION	RM	ROOM
AFF	ABOVE FINISH FLOOR	EXIST	EXISTING	MW	MICROWAVE	RO	ROUGH OPENING
ALUM	ALUMINUM	EXP	EXPANSION	N	NORTH	RTN	RETURN
ARCH	ARCHITECTURAL	EXT	EXTERIOR	NIC	NOT IN CONTRACT	SCHED	SCHEDULE
ASPH	ASPHALT	FA	FIRE ALARM	NO OR #	NUMBER	SCR	SCRIBE
A/V	AUDIO/VISUAL	FED	FIRE EXTINGUISHER	NOM	NOMINAL	SD	SOAP DISPENSER
BD	BOARD	FE	FIRE EXTINGUISHER CABINET	NTS	NOT TO SCALE	SERV	SERVICES
BIO	BIOLOGICAL	FEC	FIRE EXTINGUISHER CABINET	OA	OVERALL	SIM	SIMILAR
BITUM	BITUMINOUS	FHC	FIRE HOSE CABINET	OC	ON CENTER	SPEC	SPECIFICATIONS
BLDG	BUILDING	FIN	FINISH	OD	OUTSIDE DIAMETER	STC	SOUND TRANSMISSION CLASS
BOD	BOTTOM OF DECK	FL	FLOOR	OFCL	OWNER FURNISH CONTRACTOR INSTALL	STD	STANDARD
BOI	BOTTOM	FOC	FACE OF CONCRETE	OPNG	OPENING	STL	STEEL
CB	CATCH BASIN	FOF	FACE OF FINISH	OPP	OPPOSITE	STOR	STORAGE
CFB	CEMENT FIBER BOARD	FOS	FACE OF STUD	OSB	ORIENTED STRAND BOARD	STRUCT	STRUCTURAL
CG	CORNER GUARD	FRP	FIBERGLASS REINFORCED PLASTIC	OWSJ	OPEN WEB STEEL JOIST	SUSP	SUSPENDED
CLG	CLEAR	FRT	FIRE-RETARDANT TREATED	PAF	POWDER ACTUATED FASTENER	SS	STAINLESS STEEL
CLR	CLEAR	FT	FOOT OR FEET	PIC	POLYSOCYANURATE BOARD INSULATION	TB	TOWEL BAR
CMU	CONCRETE MASONRY UNITS	FURR	FURRING	PL	PLATE	TEL	TELEPHONE
COL	COLUMN	GA	GALVE, GYPSUM ASSOCIATION	PLAM	PLASTIC LAMINATE	TEMP	TEMPORARY
CONC	CONCRETE	CALV	GALVANIZED	PLYWD	PLYWOOD	TOD	TOP OF DECK
CONF	CONFIGURATION	CB	GRAB BAR	PR	PAIR	TP	TOILET PAPER (DISPENSER)
CONF	CONFERENCE	CL	GLASS, GLAZING	PRCST	PRE-CAST	TV	TELEVISION
CONT	CONTINUOUS	CR	GRADE	PREFIN	PREFINISHED	TYP	TYPICAL
COORD	COORDINATE	CYP	GYPSUM	PT	PRESSURE TREATED	TS	TUBE STEEL
CORR	CORRIDOR	CWB	GYPSUM WALL BOARD	PT #	PAINT TYPE #	U/C	UNDER COUNTER
CPT	CARPET	HB	HOSE BIBB	PTD	PAPER TOWEL DISPENSER	UL	UNDERWRITER LABORATORIES
DF	DRINKING FOUNTAIN	HOWD	HARDWOOD	PTN	PARTITION	UON	UNLESS OTHERWISE NOTED
DET	DETAIL	HT	HEIGHT	PVC	POLY VINYL CHLORIDE	VERT	VERTICAL
DIA	DIAMETER	HM	HOLLOW METAL	Q	QUARTER	VEST	VESTIBULE
DISP	DISPENSER	HOR	HORIZONTAL	R	RISERS	VTR	VENT THROUGH ROOF
DIM	DIMENSION	INSUL	INSULATION	(R)	REMOVE AND REINSTALL	WC	WATER CLOSET
DN	DOWN	JAN	JANITOR	RAD	RADIUS	W/	WITH
DS	DOWNSPOUT	LAV	LAVATORY	RD	ROOF DRAIN	WD	WOOD
DWG	DRAWING	LR	LOCKER ROOM	REC	RECEPTION	WMNS	WOMEN'S
(E)	EXISTING	MACH	MACHINE	REF	REFERENCE	WP	WATERPROOF
EA	EACH	MAX	MAXIMUM	REFR	REFRIGERATOR	WSCOT	WAINSCOT
ELEC	ELECTRICAL	MECH	MECHANICAL	REFR/FRZ	REFRIGERATOR AND FREEZER	WT	WEIGHT
ELEV	ELEVATION	MIN	MINIMUM	REINF	REINFORCED, REINFORCING	(X)	REMOVE
		MISC	MISCELLANEOUS	REQ'D	REQUIRED		
				RESIL	RESILIENT		

FINISH SCHEDULE

ROOM FINISH SCHEDULE																	
ROOM NO.	ROOM NAME	Floors		WALLS										CEILING		NOTES	ROOM NO.
				NORTH		EAST		SOUTH		WEST							
		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT			
100	Garage	Conc	Sealer	MTL	None	GWB/FRP	PT1/None	MTL	None	MTL	None	Vapor Ret	None	Varies	1,2,3,4,5	100	
101	Office	Conc	Sealer	GWB	PT1	GWB	PT1	GWB	PT1	GWB	PT1	GWB	PT1	8'-0"	2	101	
102	Corridor	Conc	Sealer	GWB	PT1	GWB	PT1	GWB	PT1	GWB	PT1	GWB	PT1	8'-0"	2,3	102	
103	Boiler	Conc	Sealer	GWB	PT1	GWB	PT1	GWB	PT1	GWB	PT1	GWB	PT1	7'-10"	2	103	
104	Toilet	Conc	Sealer	FRP	None	FRP	None	FRP	None	FRP	None	GWB	PT1	7'-5"	2	104	
105	Storage	Conc	Sealer	MTL	None	MTL	None	GWB	PT1	None	None	Vapor Ret	None	Varies	1	105	
201	Mezz.	Plywood	PT2	None	None	MTL	None	MTL	None	None	None	Vapor Ret	None	Varies	1,5,6	201	

ROOM FINISH SCHEDULE NOTES

NO. NOTE

1 EXPOSED BUILDING STRUCTURAL STEEL: TOUCH UP FACTORY PRIMER, MATCH COLOR, NO FINISH COAT REQUIRED.

2 INTERIOR STEEL DOOR AND FRAME: PAINT PT3.

3 EXTERIOR STEEL DOOR AND FRAME: PAINT PT6.

4 OVERHEAD DOOR: TOUCH UP FACTORY FINISH COAT, MATCH MATERIAL AND COLOR.

5 GUARDRAILS, STEEL STAIR STRUCTURE EXCEPT GRATING, EXPOSED MEZZANINE STRUCTURAL STEEL AND MISC METAL TRIM: PAINT PT 3/PT 4.

6 BOILER STACK SHAFT GWB: PAINT PT 1.

7 EXTERIOR ROOF, SIDING, TRIM: FACTORY FINISH.

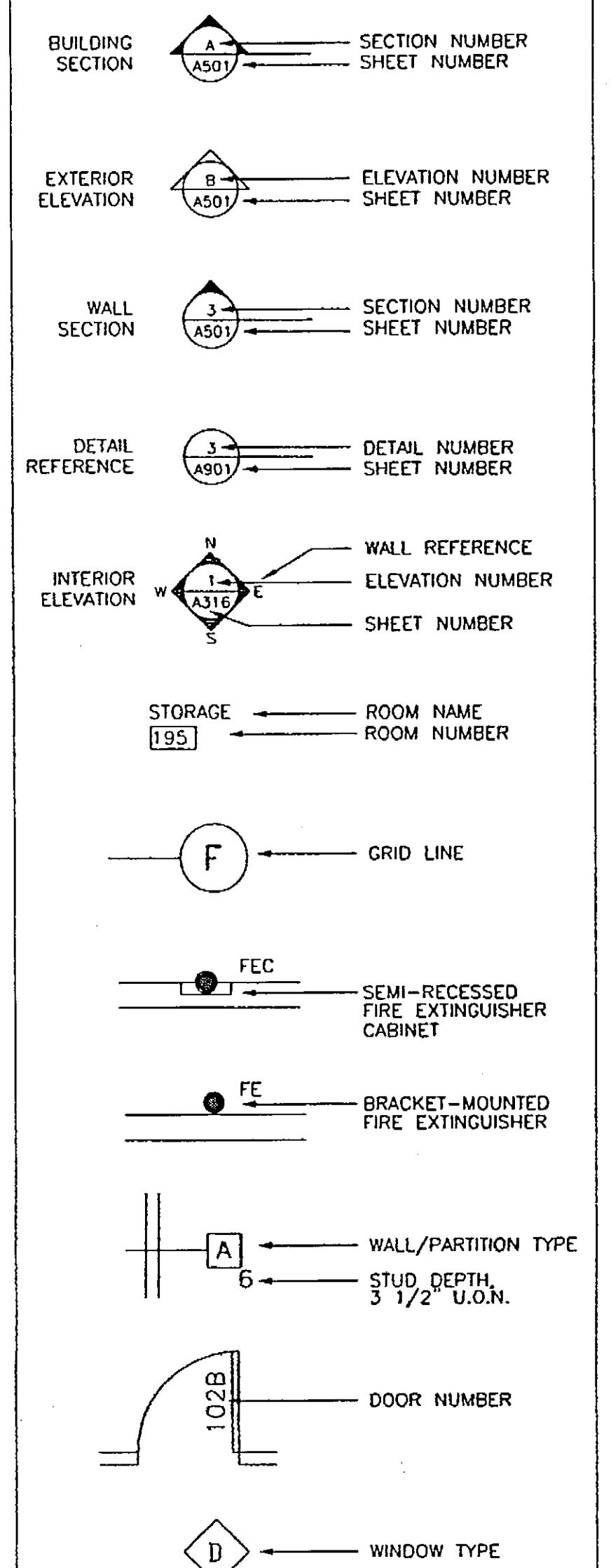
8 EXTERIOR MECHANICAL & ELECTRICAL: PT 5/PT 6.

9 EXTERIOR MISC METALS: PT 5/PT 6.

BUILDING CODE REVIEW

ITEM	ACTUAL	ALLOWED	IBC REFERENCE
CODE USED	-	-	International Building Code, 2000 Edition
OCCUPANCY CLASSIFICATION	S-1, repair garage	-	Section 311.2
ACCESSORY USE	Office	-	Section 302.2
CONSTRUCTION TYPE	V.B	-	Section 602.5
BUILDING AREA	4742 SF	9000 SF	Table 503
MEZZANINE	501 SF	1768 SF	Section 502.2
STORIES	1 + Mezzanine	1 + Mezzanine	Table 503, Section 505.1
HEIGHT	25 FT +/-	40 FT	Table 503
LOCATION ON PROPERTY	25 FT to P.L.	-	-
FIRE RESISTIVE RATINGS	-	-	-
STRUCTURAL FRAME	0 Hour	0 Hour	Table 601
WALLS, INTERIOR	0 Hour	0 Hour	Table 601
WALLS, EXTERIOR	0 Hour	0 Hour	Table 601
ROOF	0 Hour	0 Hour	Table 601
FLOOR SURFACE	Concrete	Concrete	Section 406.6.4
OCCUPANCY SEPARATION	-	-	-
OFFICE, TOILET	0 Hour	0 Hour	Section 302.2
BOILER ROOM	2 Hour	2 Hour	Section 406.6.5

DRAWING LEGEND



PATH: .	BY: .	DATE: .	DESCRIPTION OF CHANGE:

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HOONAH

HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING

ALASKA

DESIGNED BY:

DRAWN BY: DE

CHECKED BY: RM

PROJECT NO. 68389

AIP 3-02-0125-0403

DATE:

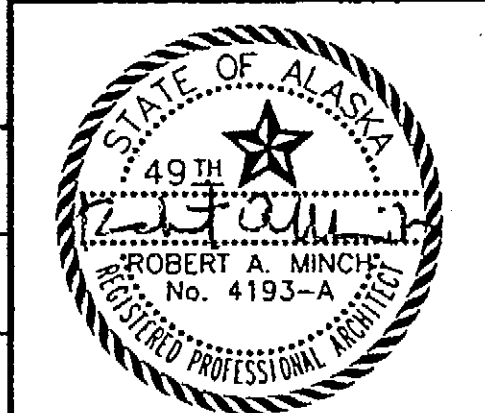
NOVEMBER 17, 2003

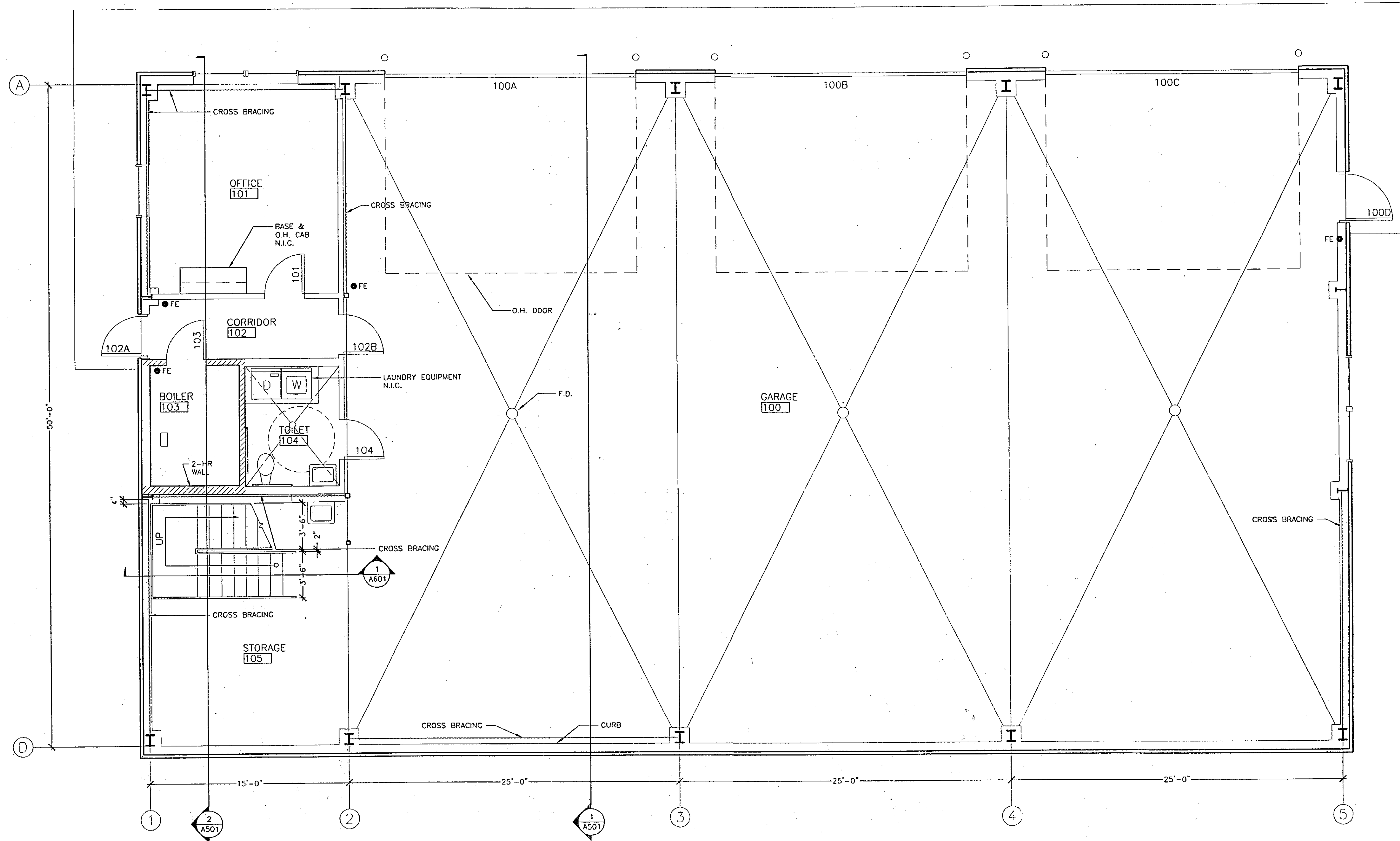
SHEET A001 OF 39

PLANS DEVELOPED BY:
MINCH RITTER VOELCKERS
ARCHITECTS

NOTE:
DO NOT SCALE FROM THESE
PLANS - USE DIMENSIONS

ARCHITECT'S SEAL





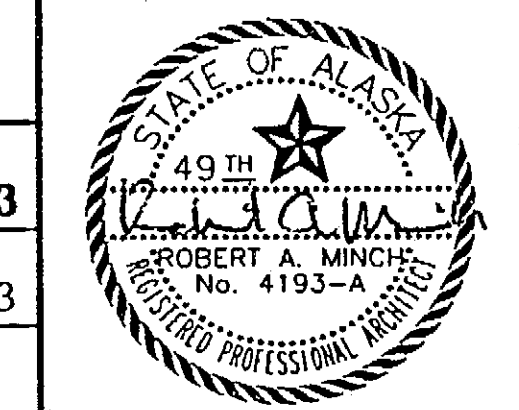
1 FIRST FLOOR PLAN
Scale: 1/4" = 1'-0"

DRAWINGS PRINTED ON 11"x17"
ARE DRAWN 1/2 PRINTED SCALE

PLANS DEVELOPED BY:
MINCH RITTER VOELCKERS
ARCHITECTS

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PLANS - USE DIMENSIONS

ARCHITECT'S SEAL

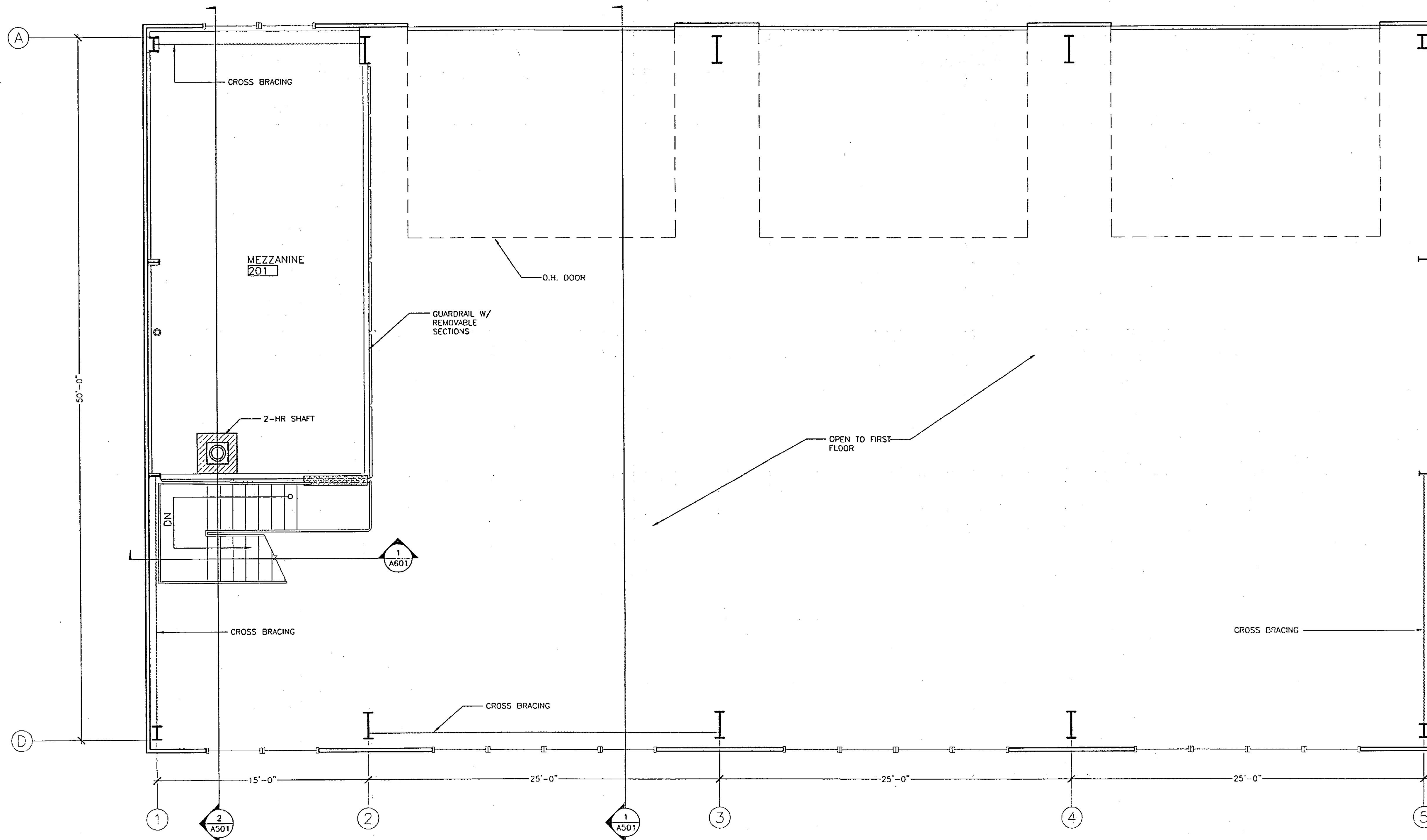


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HOONAH
HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING
ALASKA

DESIGNED BY:	PROJECT NO. 68389
DRAWN BY: DE	AIP 3-02-0125-0403
CHECKED BY: RM	DATE: NOVEMBER 17, 2003
	SHEET A201 OF 39



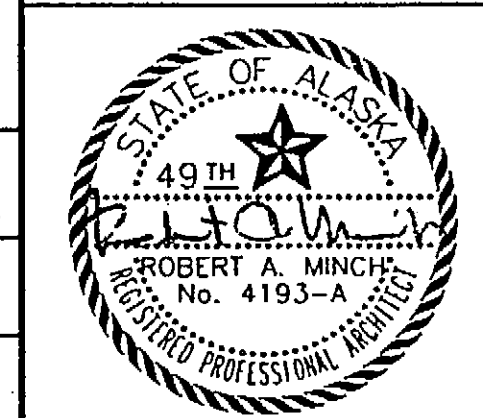
1 MEZZANINE PLAN
Scale: 1/4" = 1'-0"

DRAWINGS PRINTED ON 11"x17"
ARE DRAWN 1/2 PRINTED SCALE

PLANS DEVELOPED BY:
MINCH RITTER VOELCKERS
ARCHITECTS

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ARCHITECT'S SEAL



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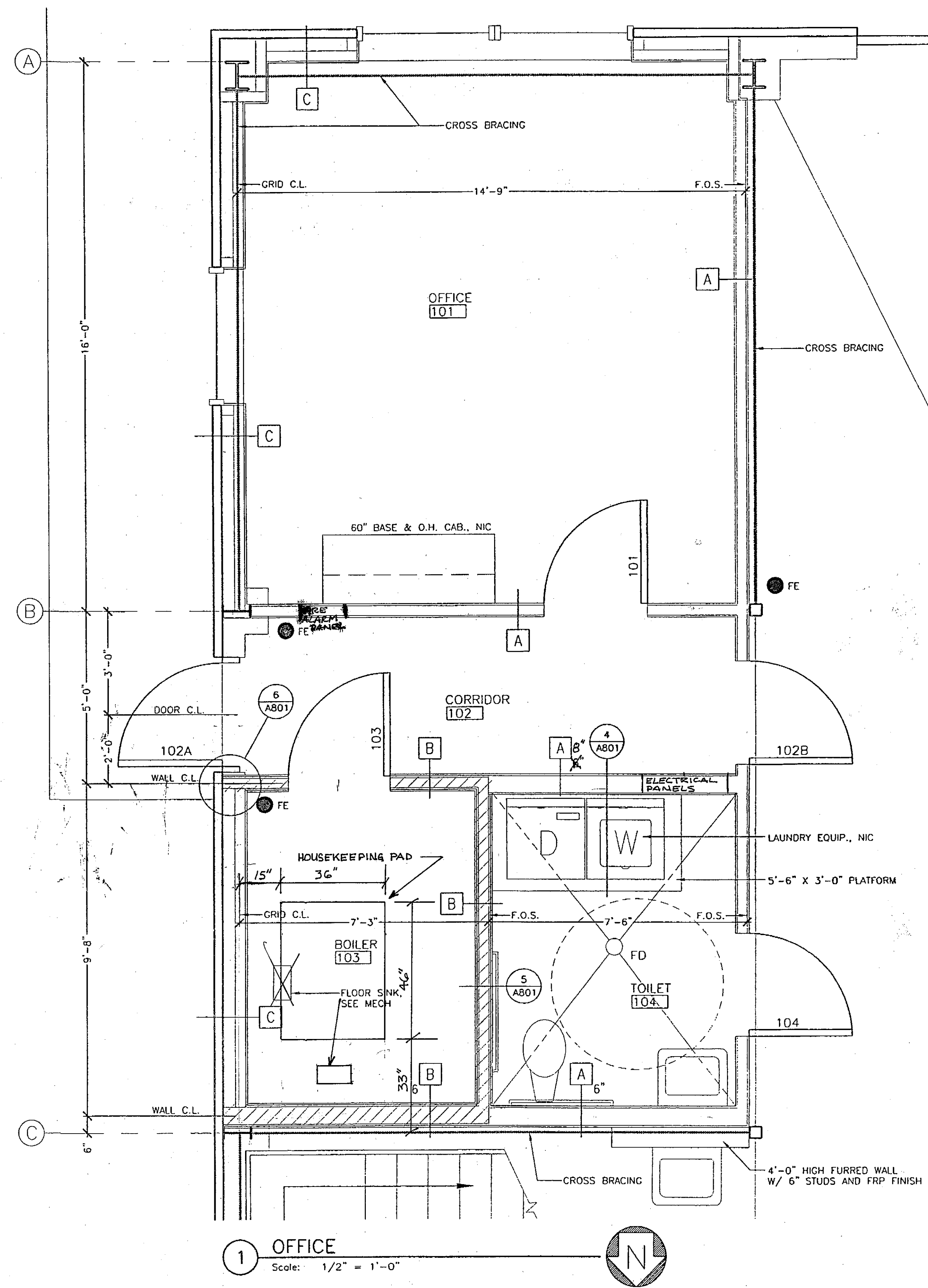
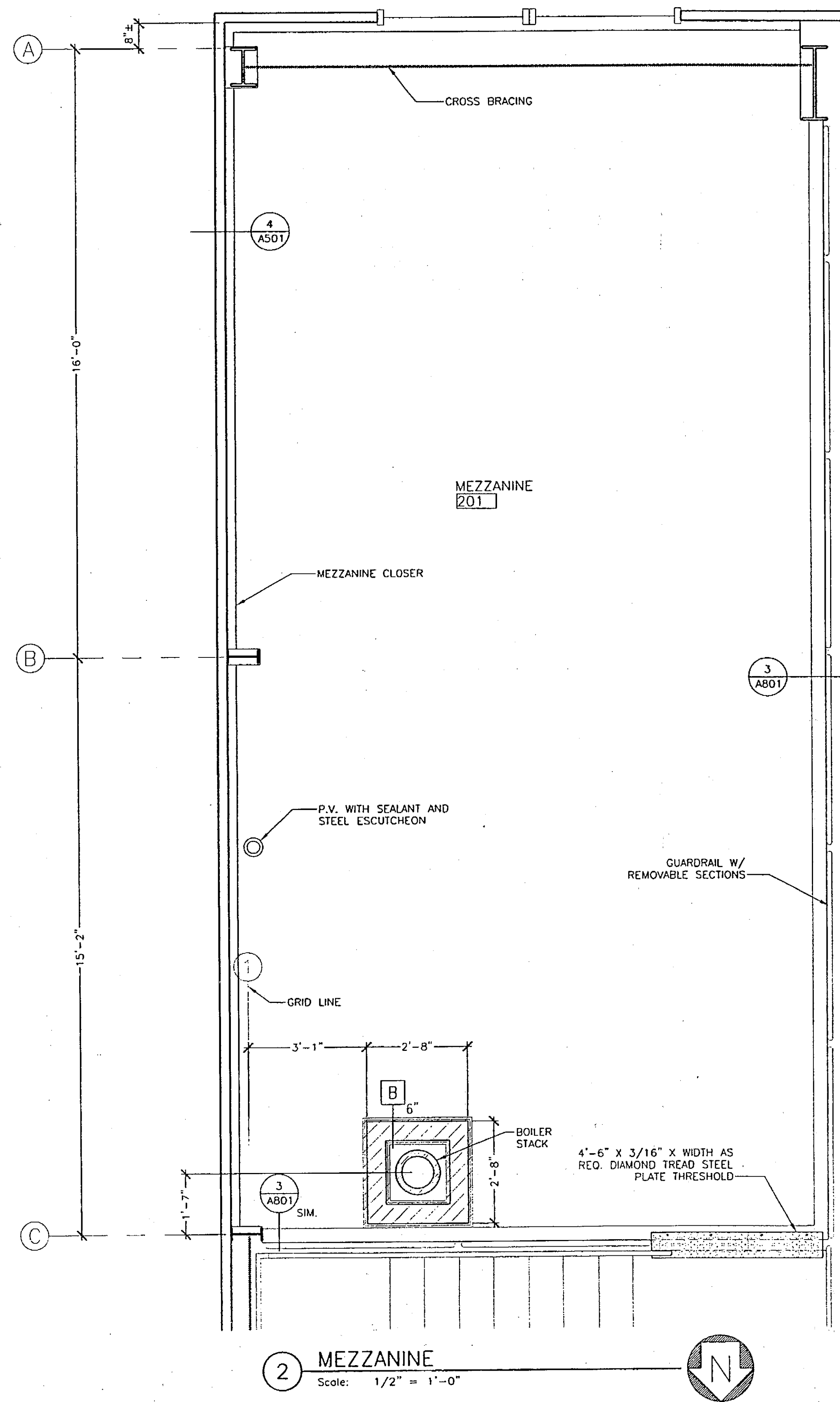
HOONAH

HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING

ALASKA

DESIGNED BY:
DRAWN BY: DE/MPA
CHECKED BY: RM

PROJECT NO. 68389
AIP 3-02-0125-0403
DATE:
NOVEMBER 17, 2003
SHEET A202 OF 39



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HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING

ALASKA

DESIGNED BY:

DRAWN BY: DE

CHECKED BY: RM

PROJECT NO. 68389
AIP 3-02-0125-0403

DATE:
NOVEMBER 17, 2003

SHEET A301 OF 39

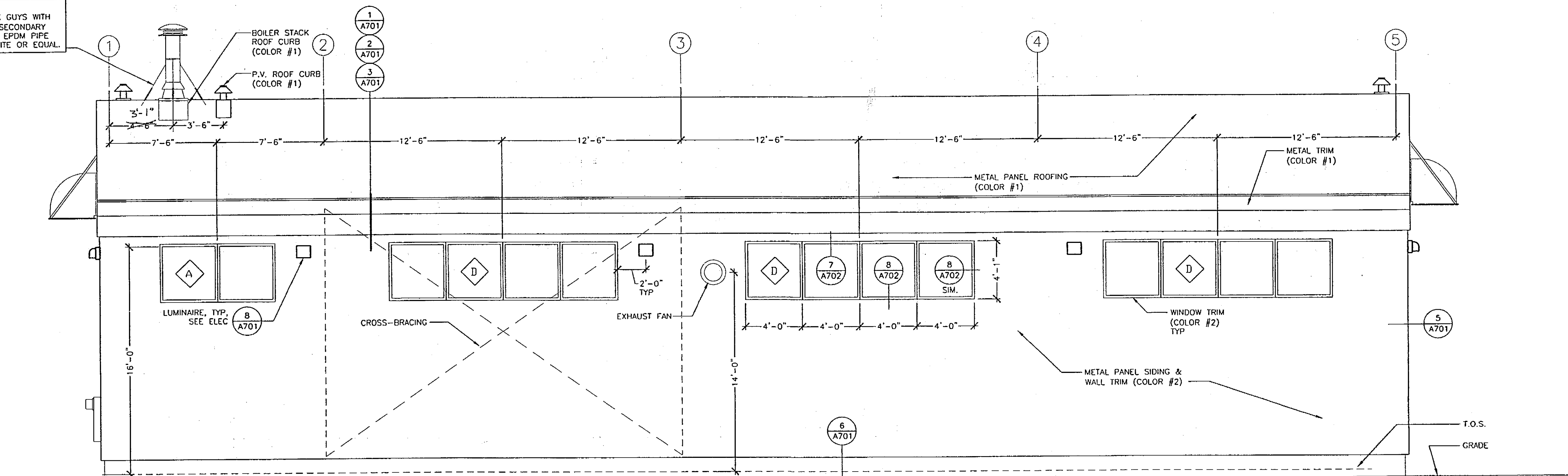
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ARE DRAWN 1/2" PRINTED SCALE

PLANS DEVELOPED BY:
MINCH RITTER VOELCKERS
ARCHITECTS

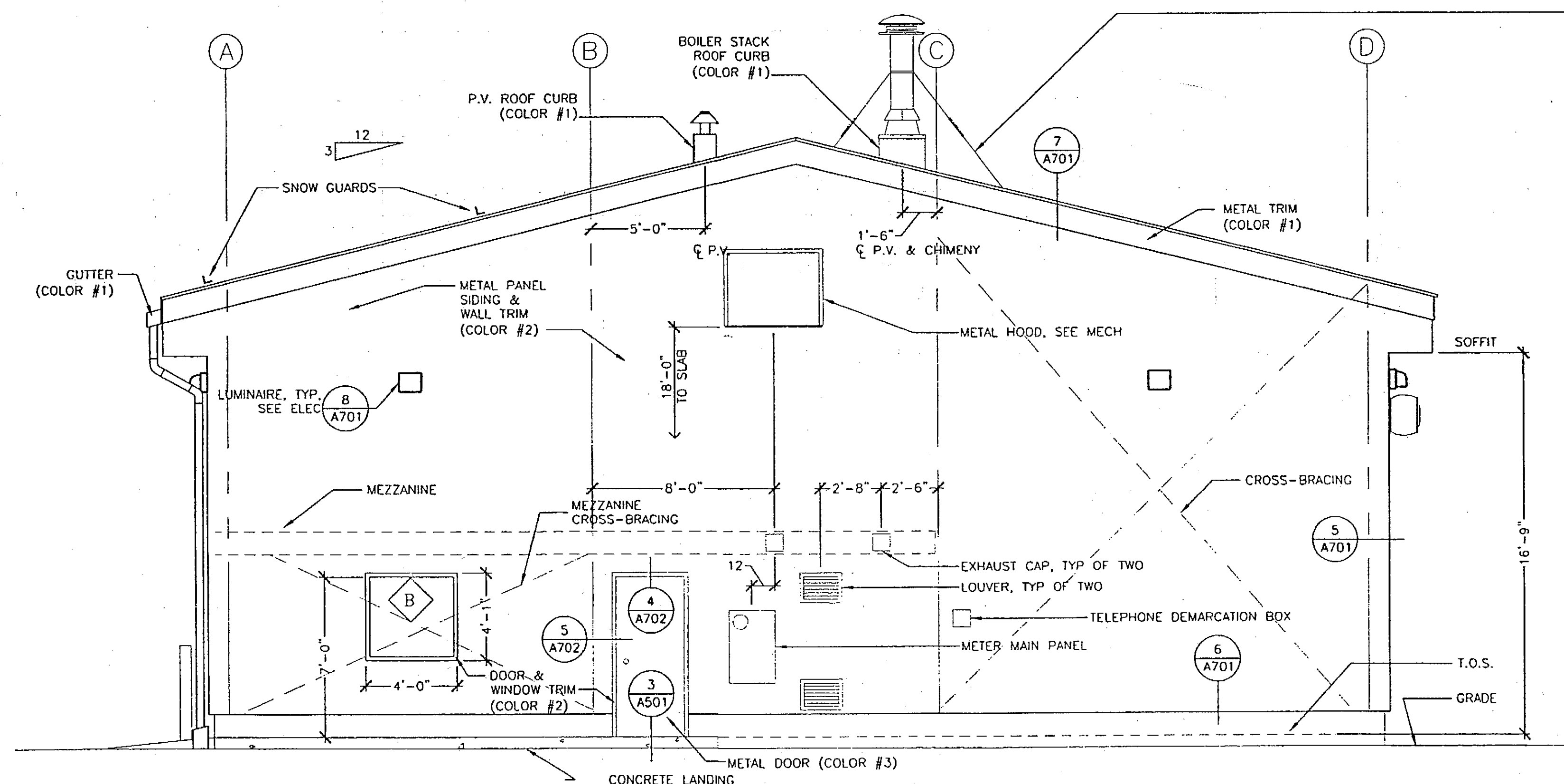
NOTE:
DO NOT SCALE FROM THESE
PLANS - USE DIMENSIONS
ARCHITECT'S SEAL



NOTE:
ATTACH BOILER STACK GUYS WITH
3/4" EYE BOLTS TO SECONDARY
FRAMING. SEAL WITH EPDM PIPE
FLASHING BOOT, DEKITE OR EQUAL.



1 NORTH ELEVATION
Scale: 1/4" = 1'-0"



2 EAST ELEVATION
Scale: 1/4" = 1'-0"

DRAWINGS PRINTED ON 11"x17"
ARE DRAWN 1/2" PRINTED SCALE

PLANS DEVELOPED BY:
MINCH RITTER VOELCKERS
ARCHITECTS

NOTE:
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PLANS - USE DIMENSIONS
ARCHITECT'S SEAL



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ALASKA

DESIGNED BY:

DRAWN BY: DE\MPA

CHECKED BY: RM

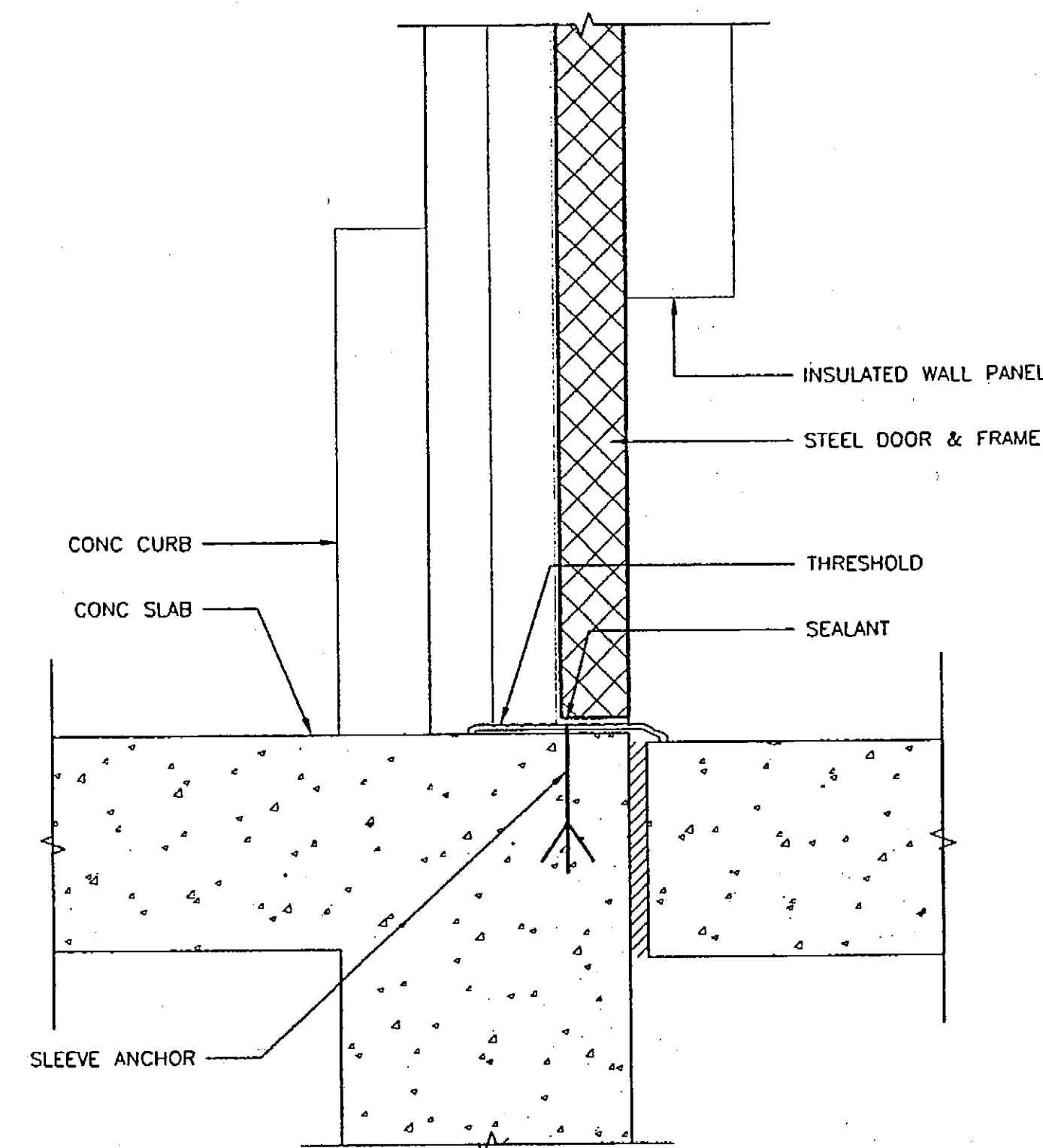
PROJECT NO. 68389

AIP 3-02-0125-0403

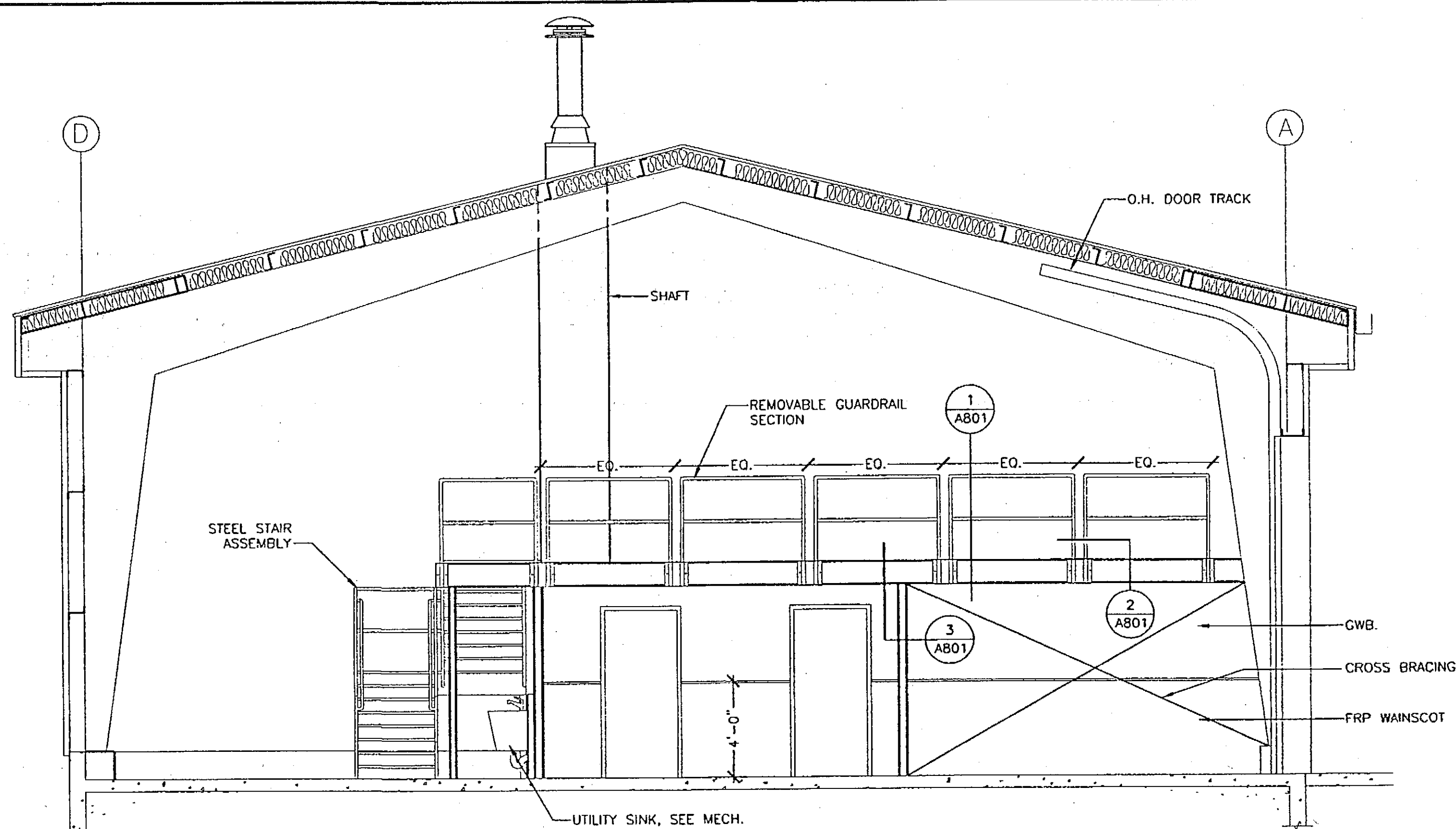
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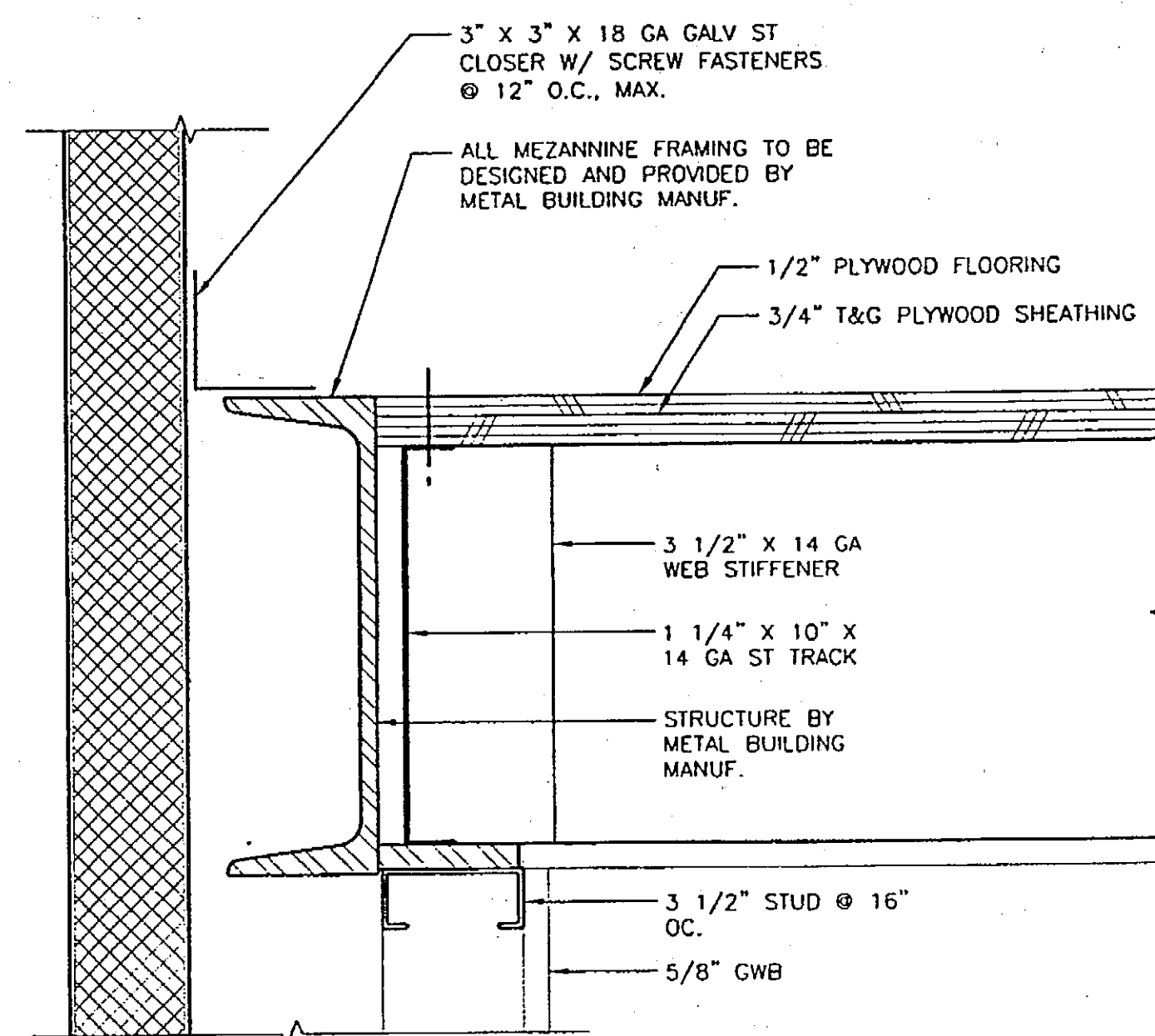
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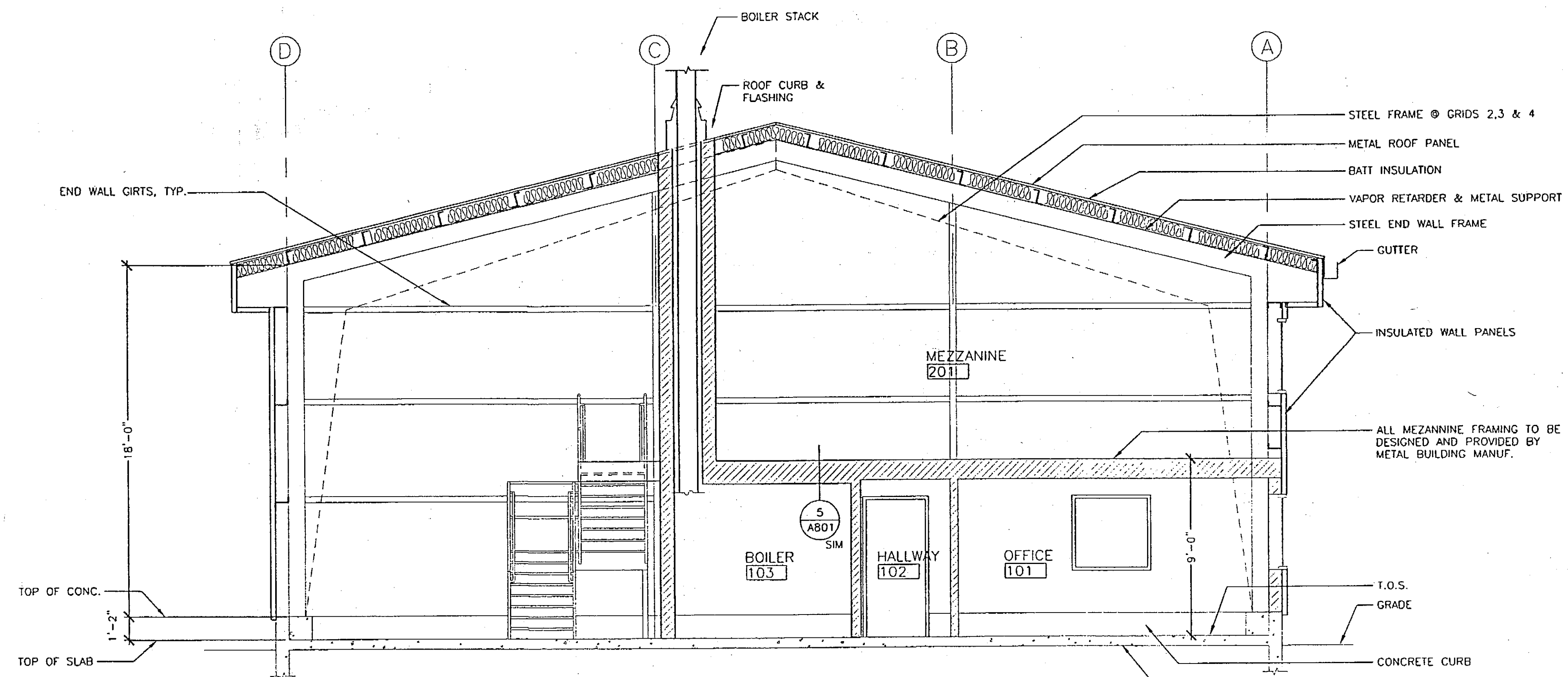
3 THRESHOLD DETAIL
Scale: 3" = 1'-0"
THRESHOLD_DETAIL



1 SECTION
Scale: 1/4" = 1'-0"



4 MEZANNINE CLOSER
Scale: 3" = 1'-0"
MEZANNINE_CLOSER



2 SECTION
Scale: 1/4" = 1'-0"

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HOONAH AIRPORT SNOW REMOVAL
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ALASKA

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DATE: NOVEMBER 17, 2003

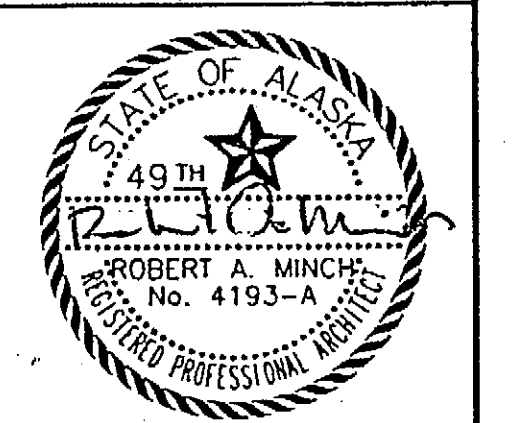
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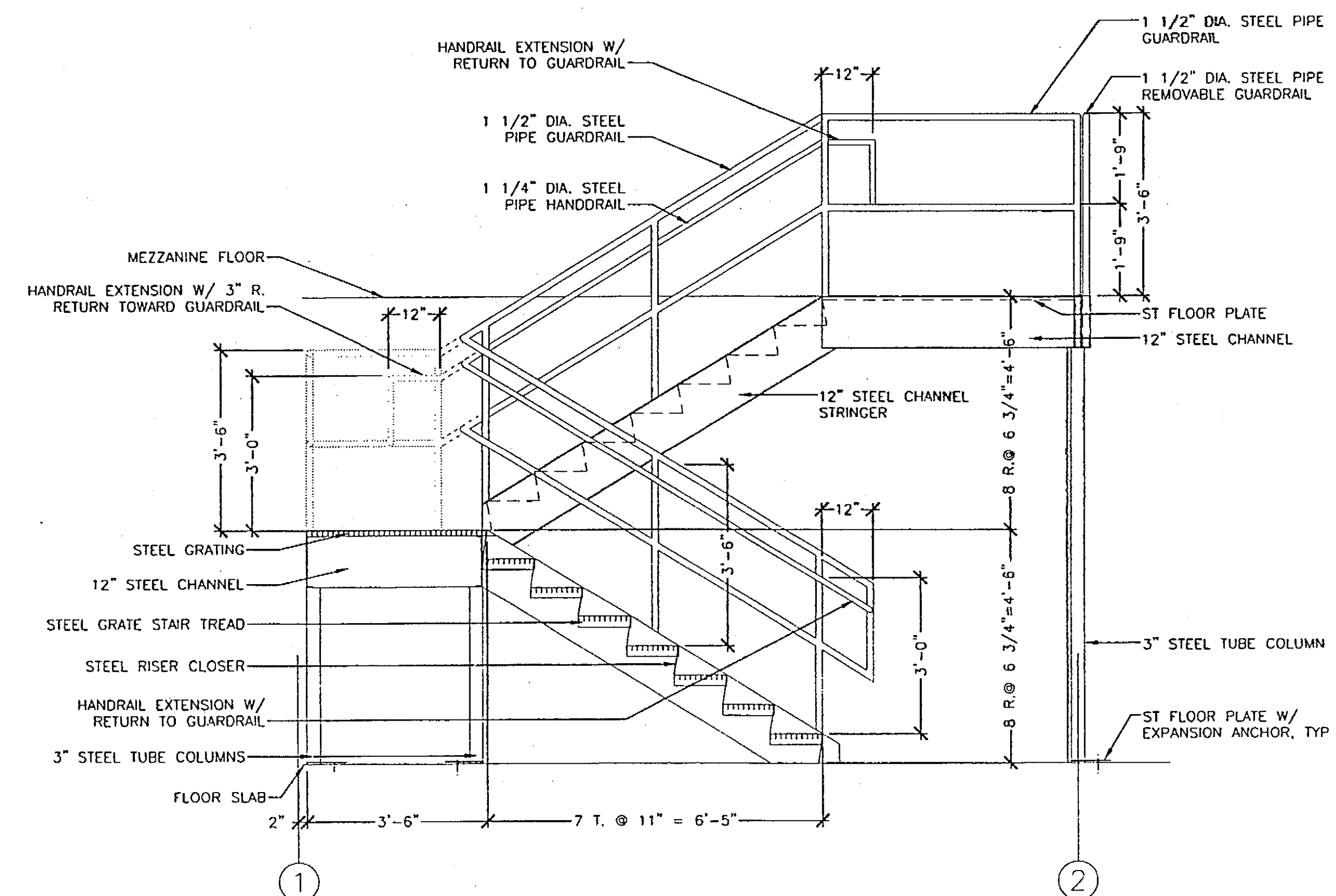
DRAWINGS PRINTED ON 11"x17"
ARE DRAWN 1/2" PRINTED SCALE

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MINCH RITTER VOELCKERS
ARCHITECTS

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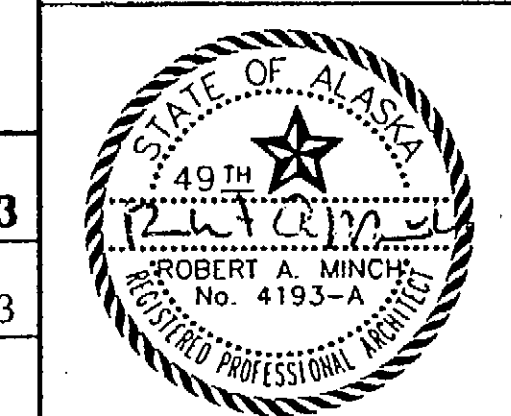
1 STAIR SECTION
Scale: 1/2" = 1'-0"

DRAWINGS PRINTED ON 11"x17"
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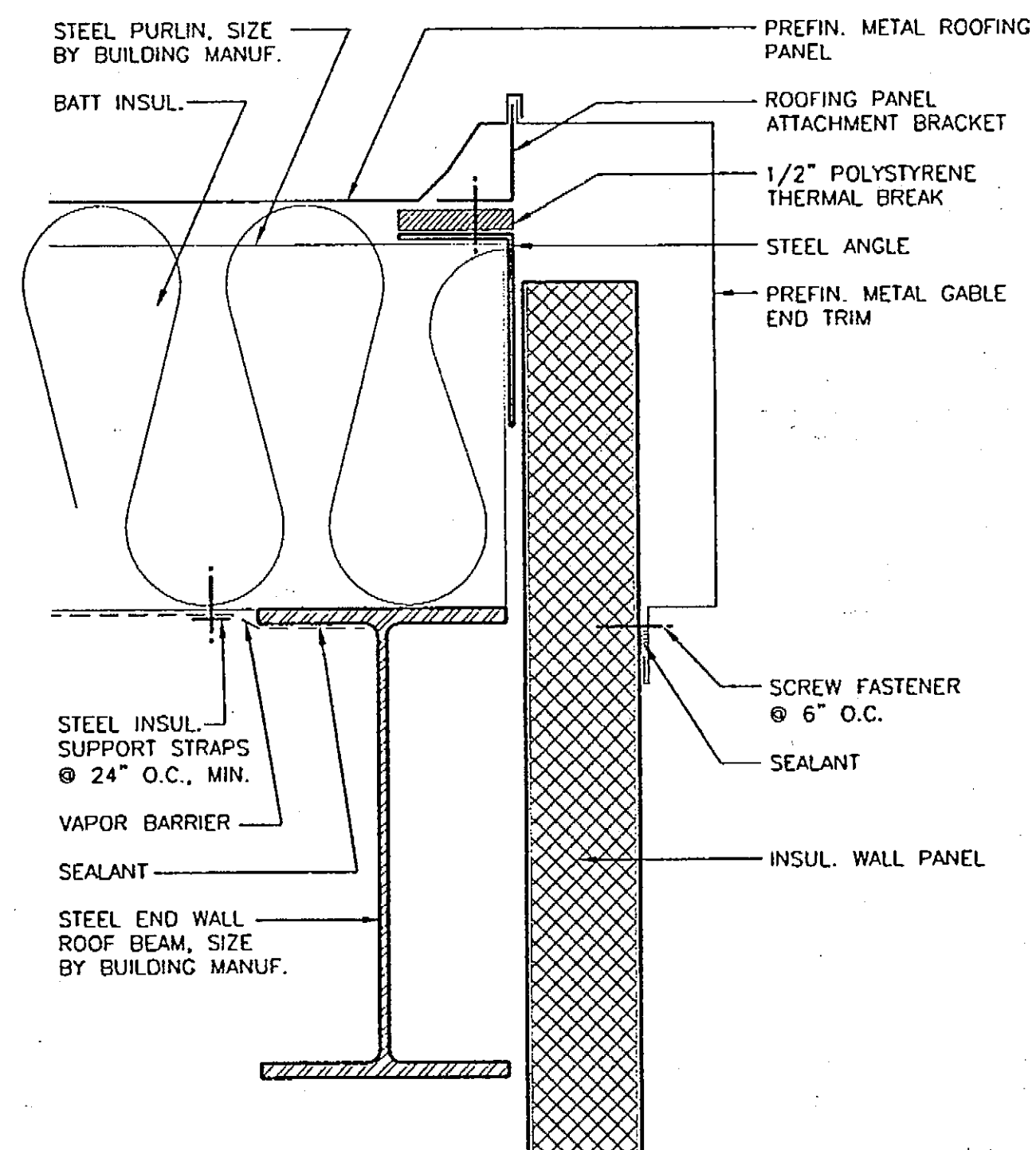
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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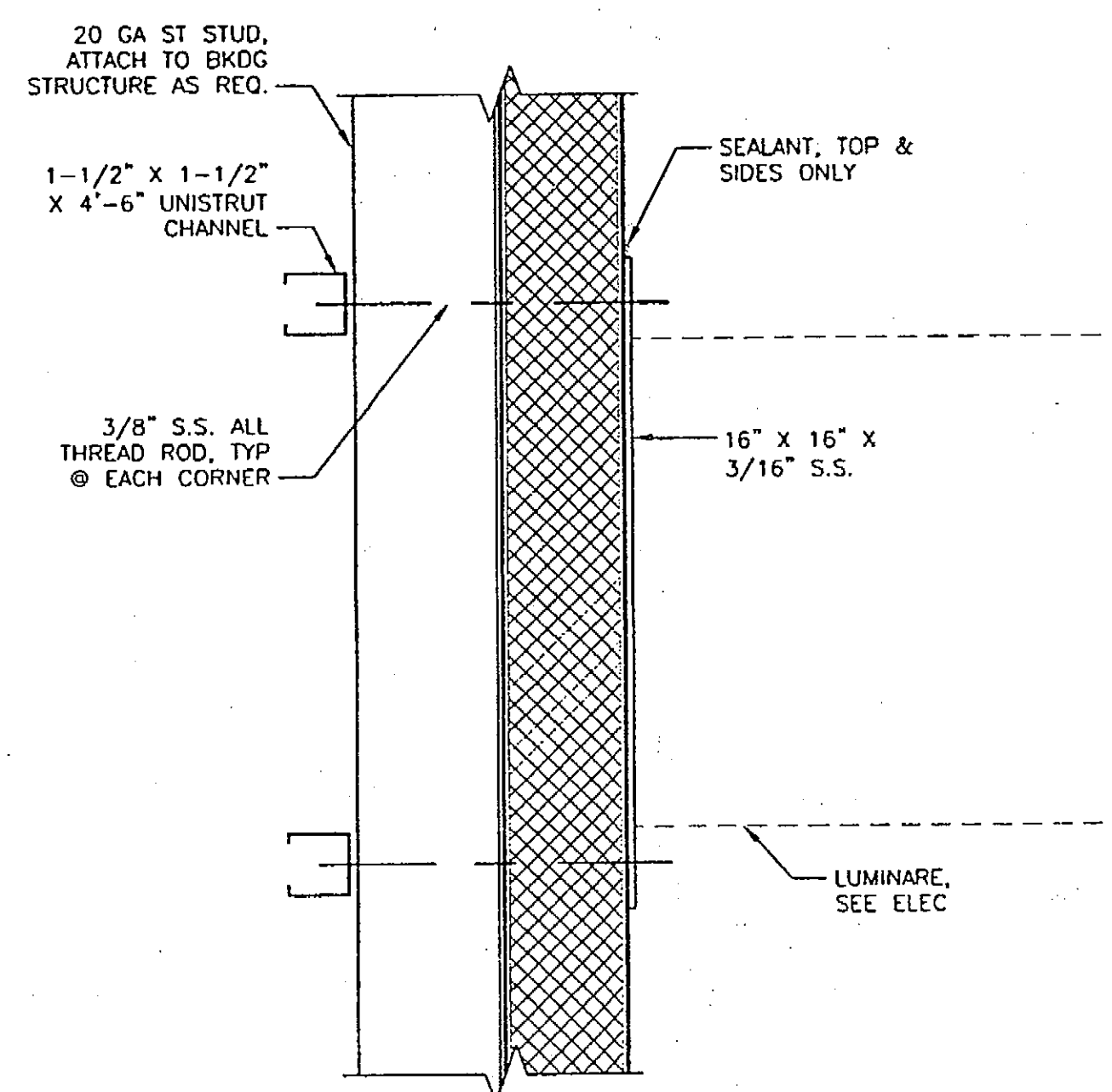
HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING

ALASKA

DESIGNED BY:	PROJECT NO. 68389
DRAWN BY: KR	AIP 3-02-0125-0403
CHECKED BY: RM	DATE: NOVEMBER 17, 2003
	SHEET A601 OF 39

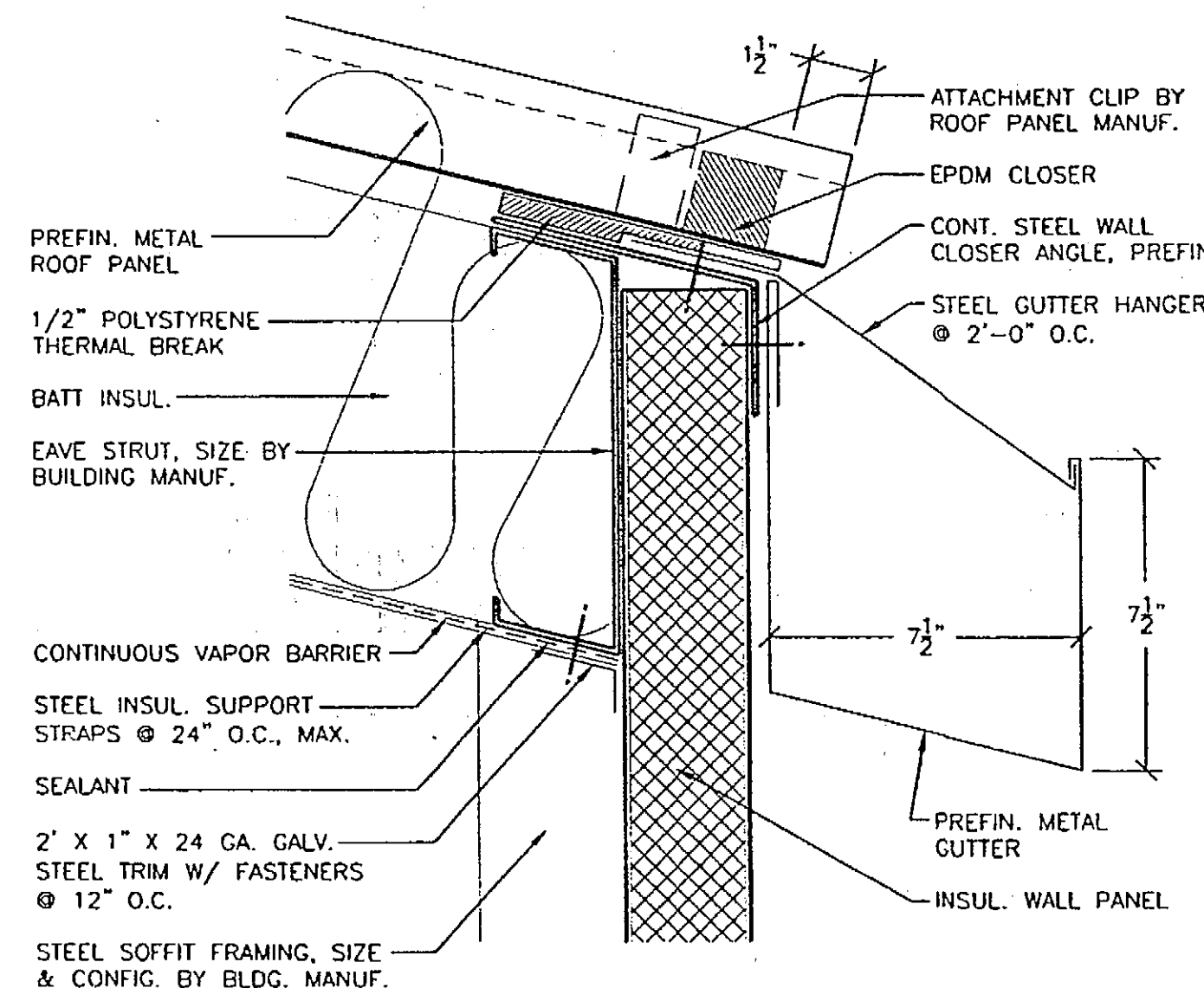


7 ROOF / ENDWALL DETAIL
Scale: 3"=1'-0" ROOF_ENDWALL

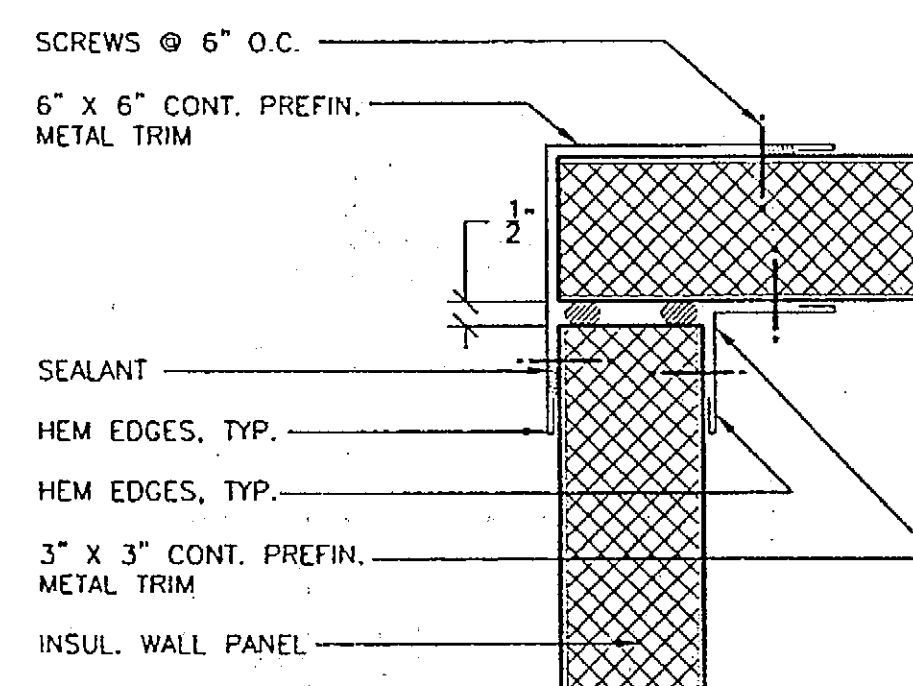


8 SUPPORT BRACKET
Scale: 3"=1'-0" SUPPORT_BRACKET

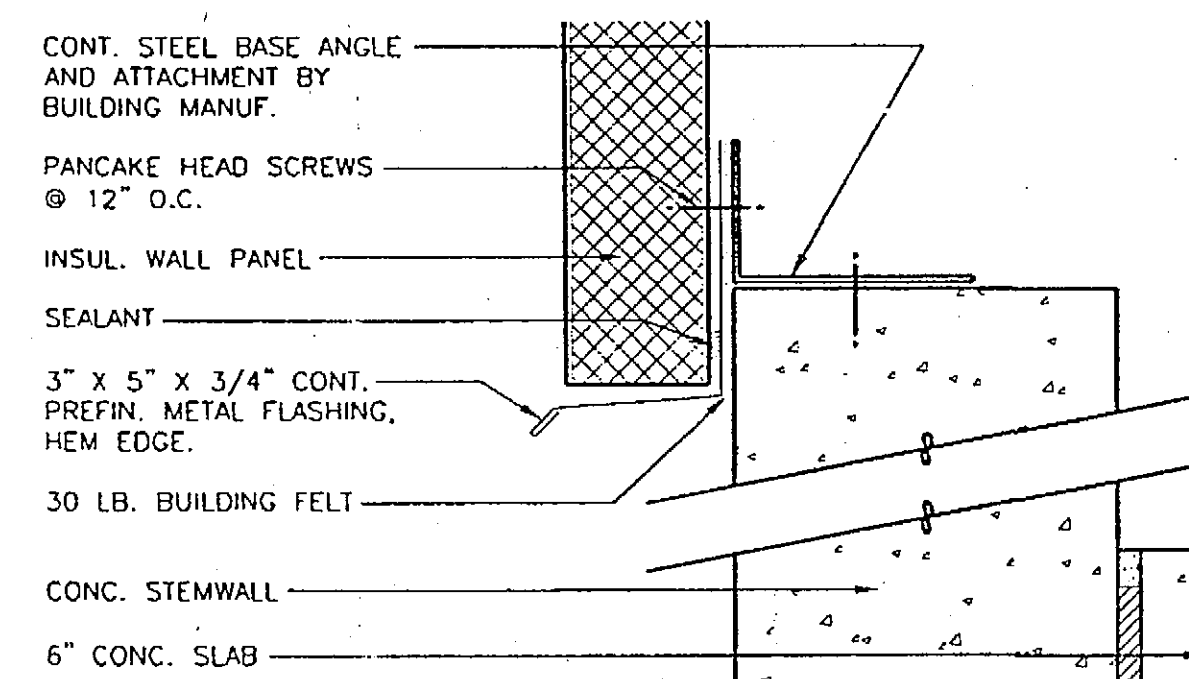
NOTE: FIELD COORDINATE LOCATION, PANEL PENETRATION AND ATTACHMENTS WITH ELECTRICAL REQUIREMENTS



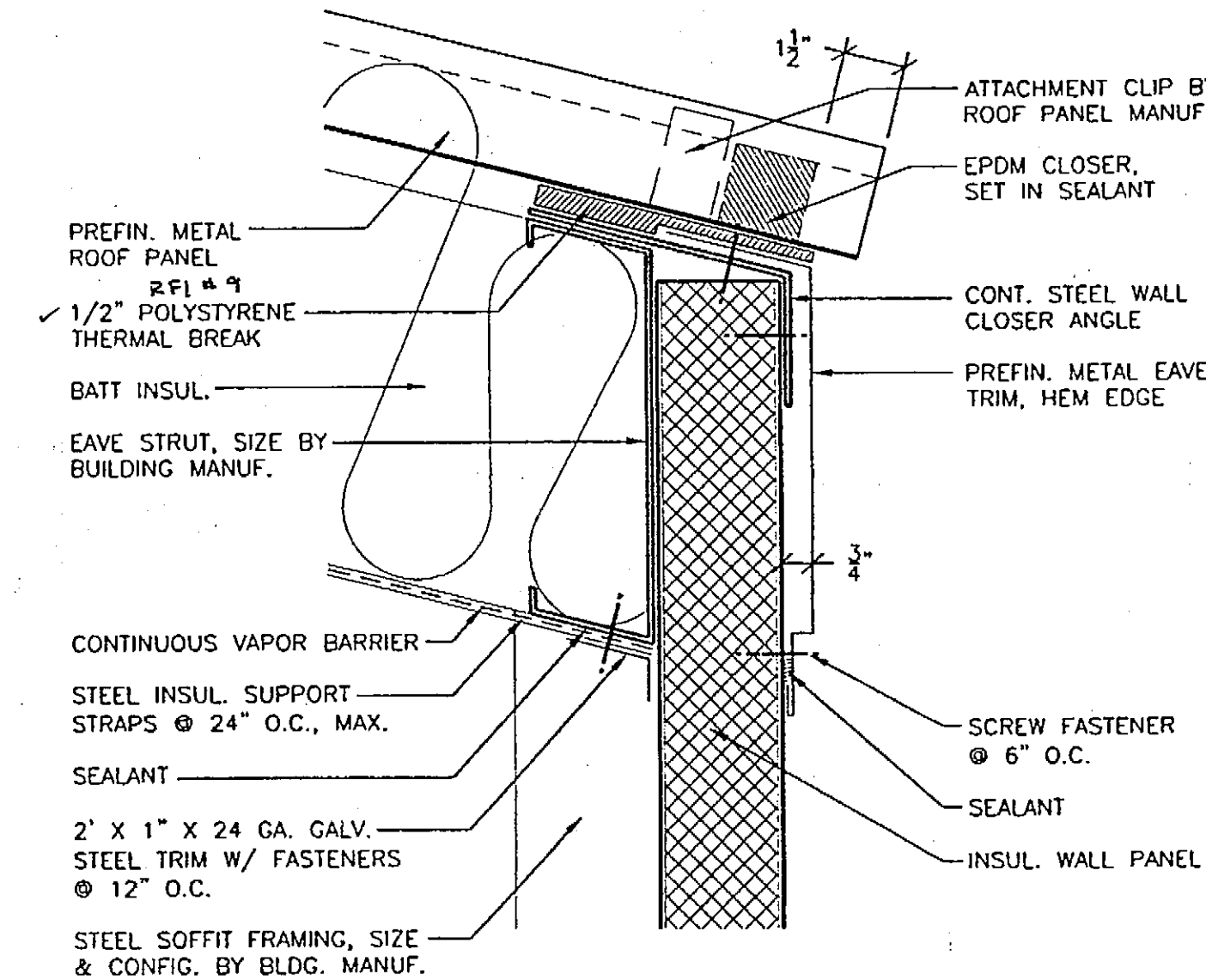
4 ROOF / SIDEWALL WITH GUTTER DETAIL
Scale: 3"=1'-0" ROOF_SIDEWALL_GUTTER



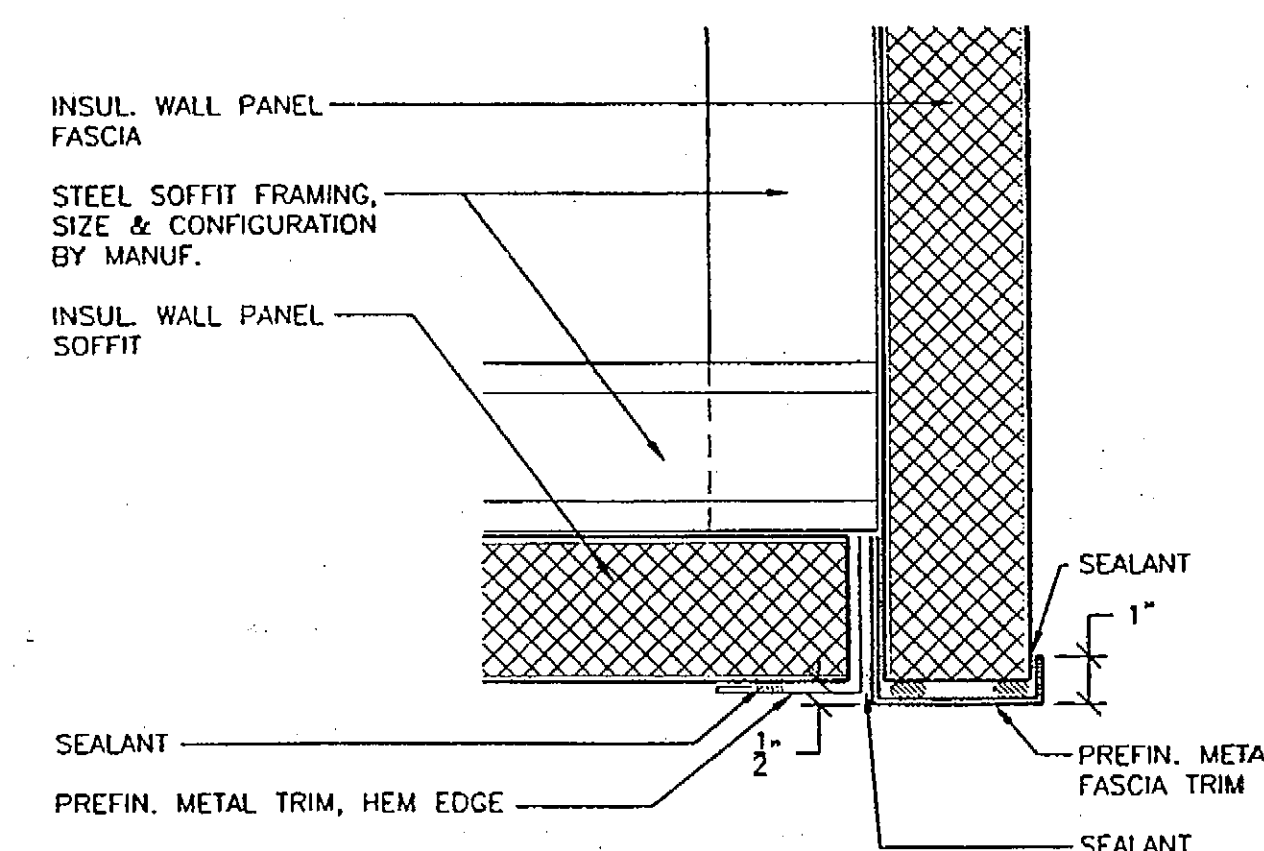
5 CORNER TRIM DETAIL
Scale: 3"=1'-0" WALL_CORNER



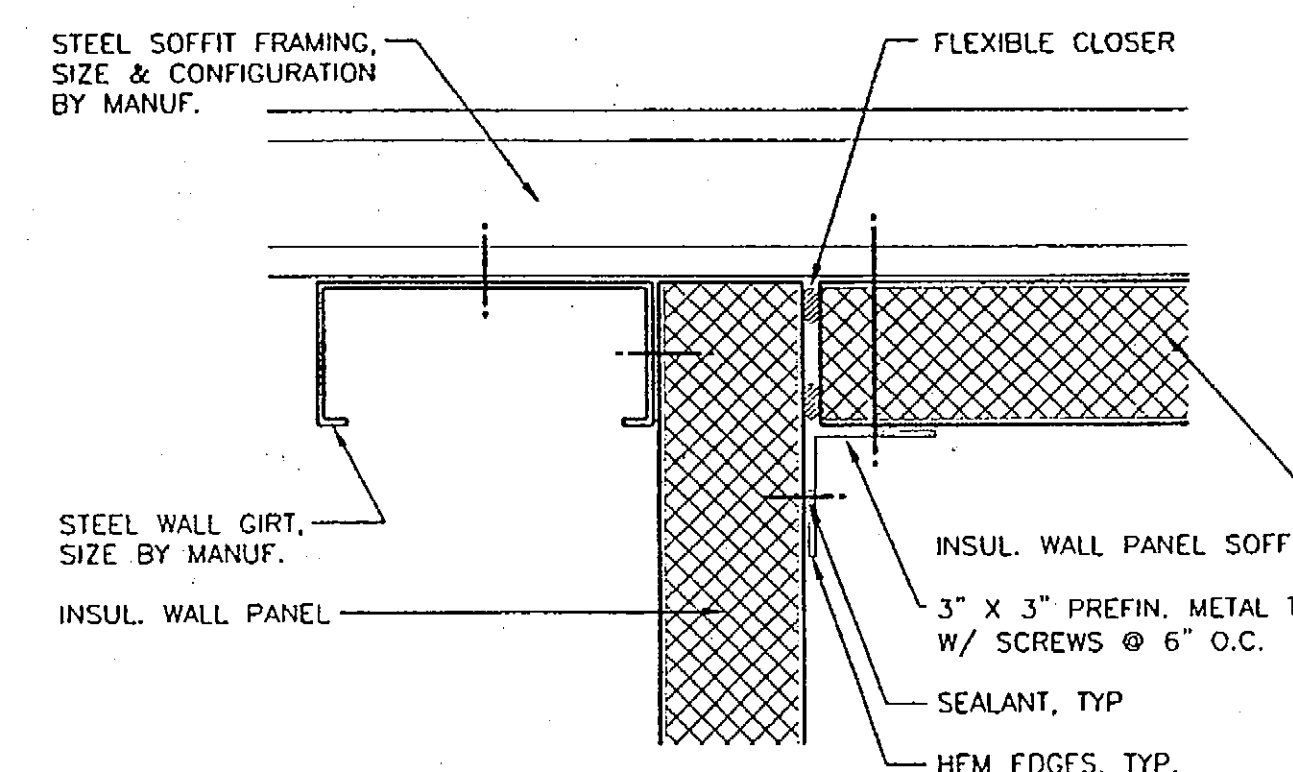
6 EXTERIOR WALL BASE DETAIL
Scale: 3"=1'-0" WALL_BASE



1 ROOF / SIDEWALL DETAIL
Scale: 3"=1'-0" ROOF_SIDEWALL



2 SOFFIT / FASCIA INTERSECTION
Scale: 3"=1'-0" SOFFIT_FASCIA



3 SOFFIT / WALL INTERSECTION
Scale: 3"=1'-0" SOFFIT_WALL

PATH:	DATE:	DESCRIPTION OF CHANGE:
BY:		

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HOONAH

HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING

ALASKA

DESIGNED BY:

DRAWN BY: CW

CHECKED BY: RM

PROJECT NO. 68389

AIP 3-02-0125-0403

DATE: NOVEMBER 17, 2003

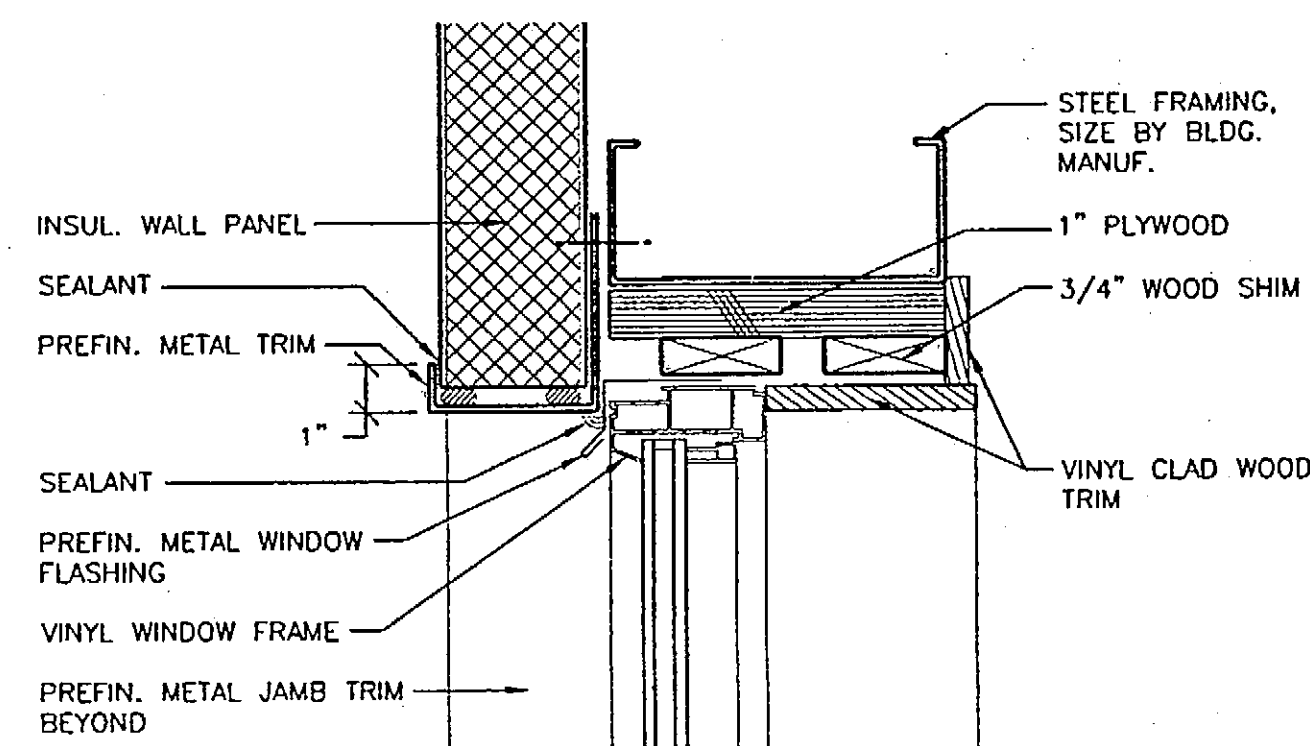
SHEET A701 OF 39

DRAWINGS PRINTED ON 11"x17" ARE DRAWN 1/2" PRINTED SCALE

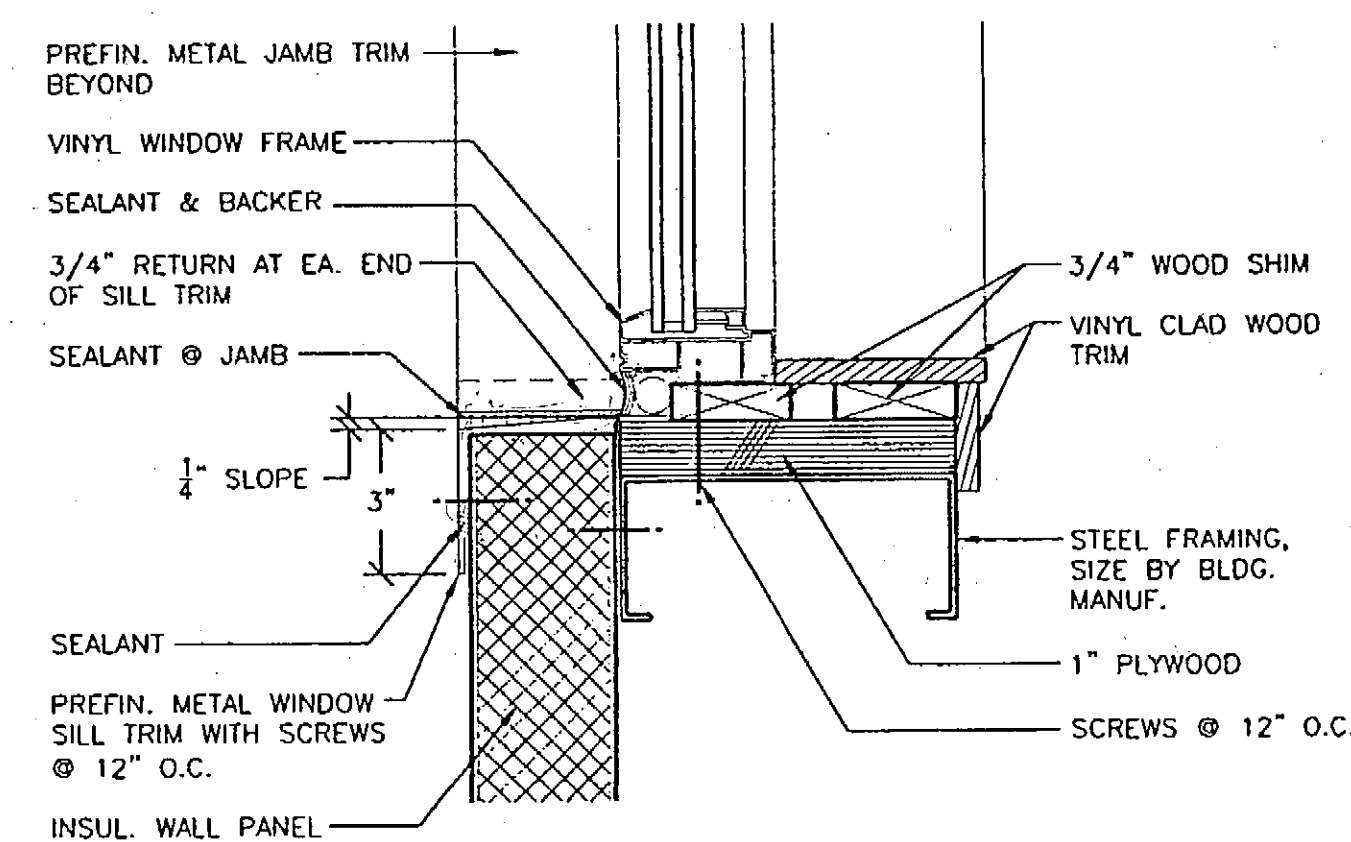
PLANS DEVELOPED BY:
MINCH RITTER VOELCKERS
ARCHITECTS

NOTE:
DO NOT SCALE FROM THESE
PLANS - USE DIMENSIONS
ARCHITECT'S SEAL

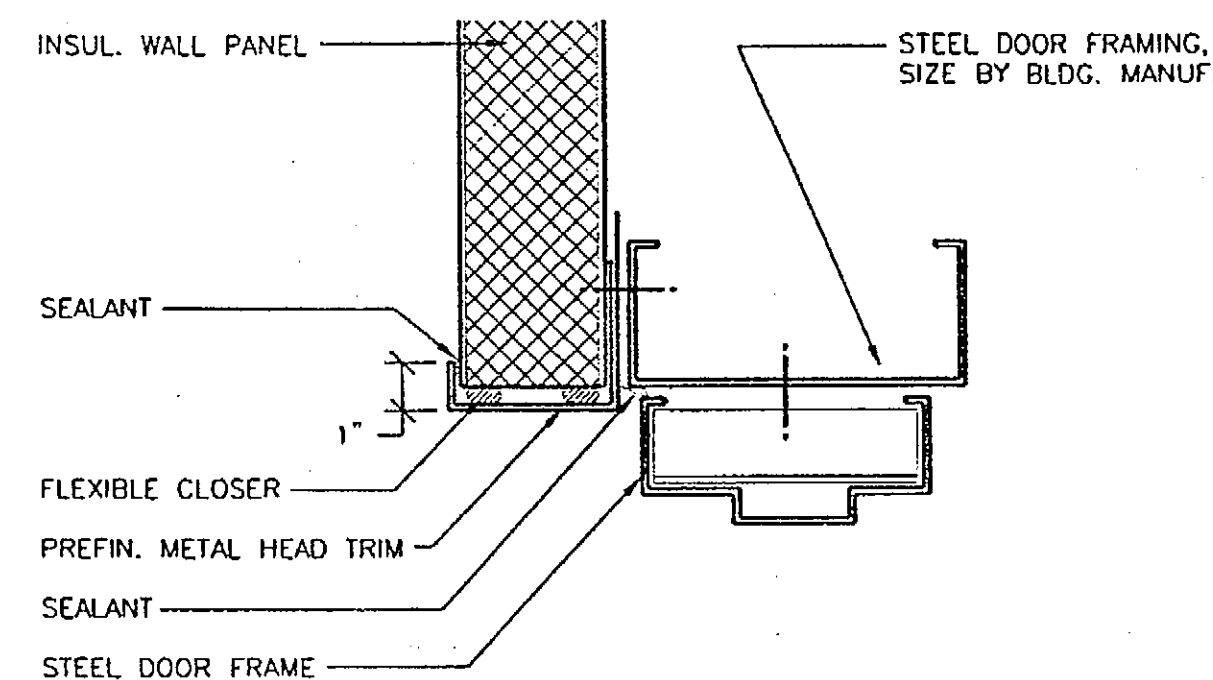




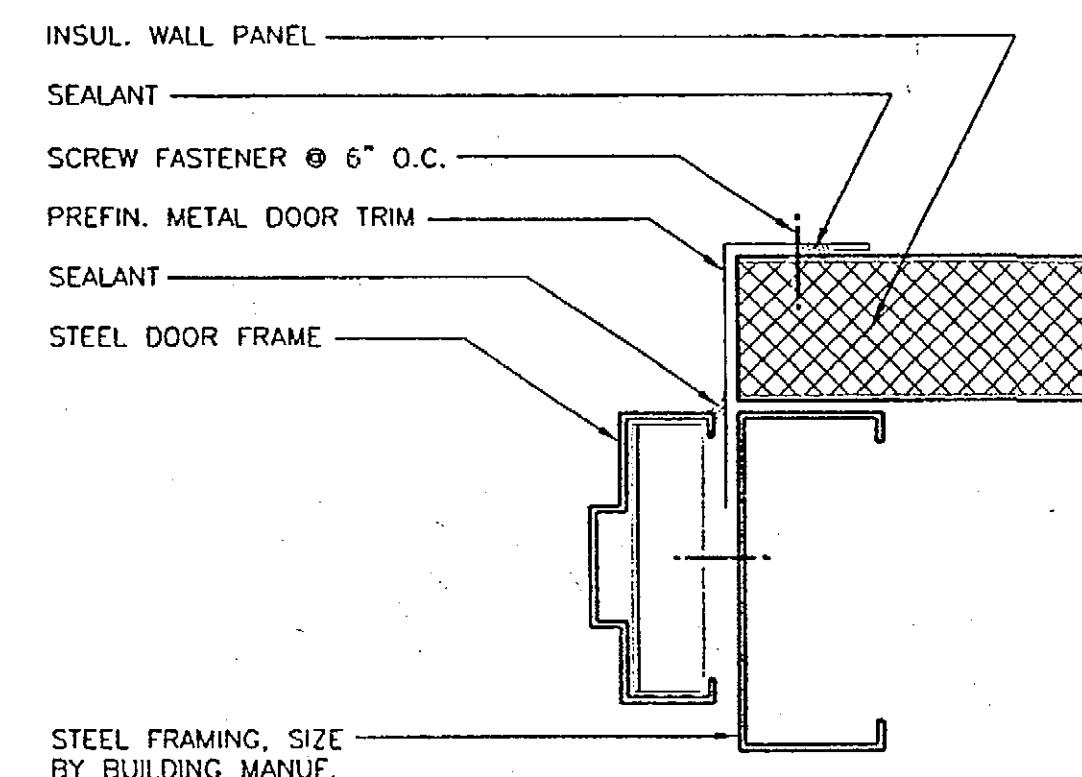
7 WINDOW HEAD DETAIL
Scale: 3"=1'-0" WINDOW_HEAD



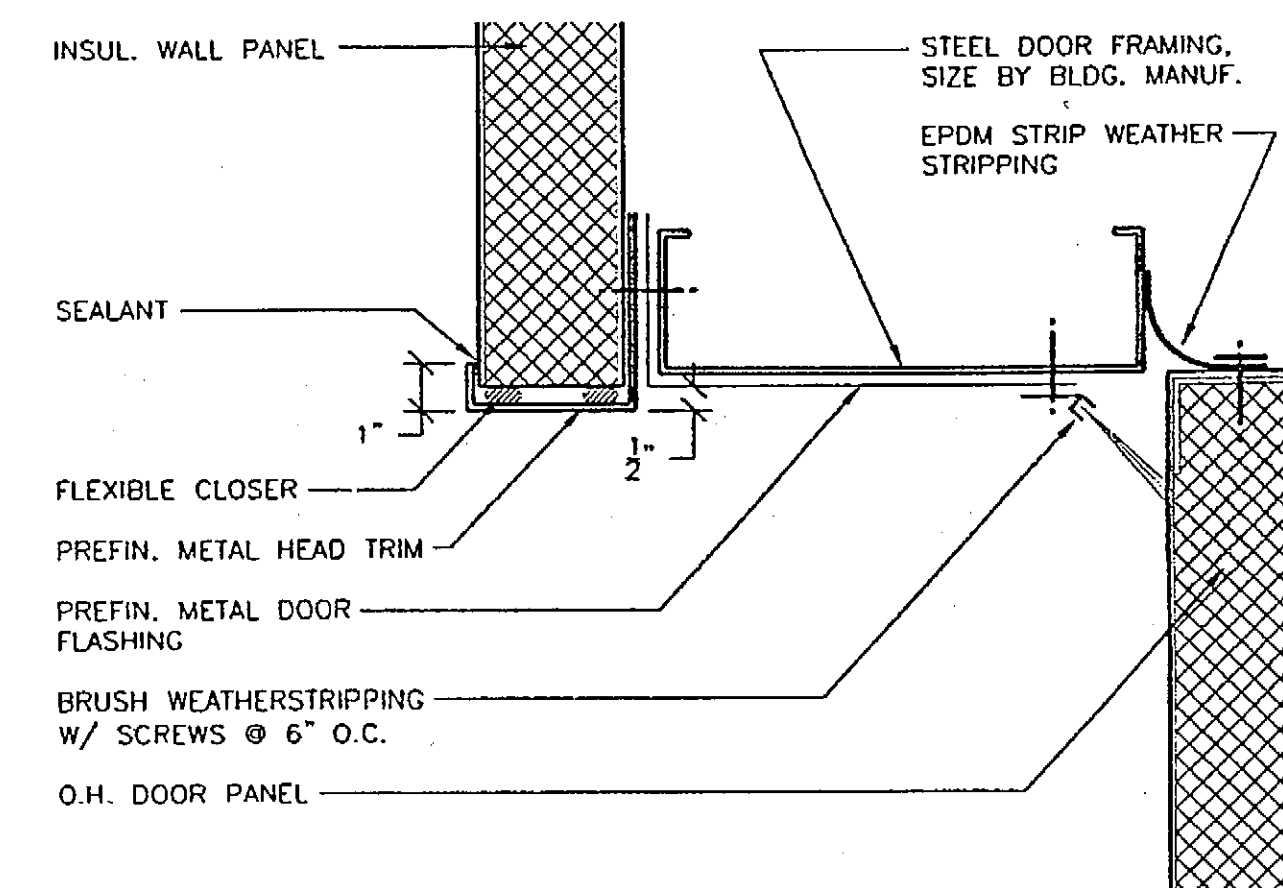
8 WINDOW SILL DETAIL
Scale: 3"=1'-0" WINDOW_SILL



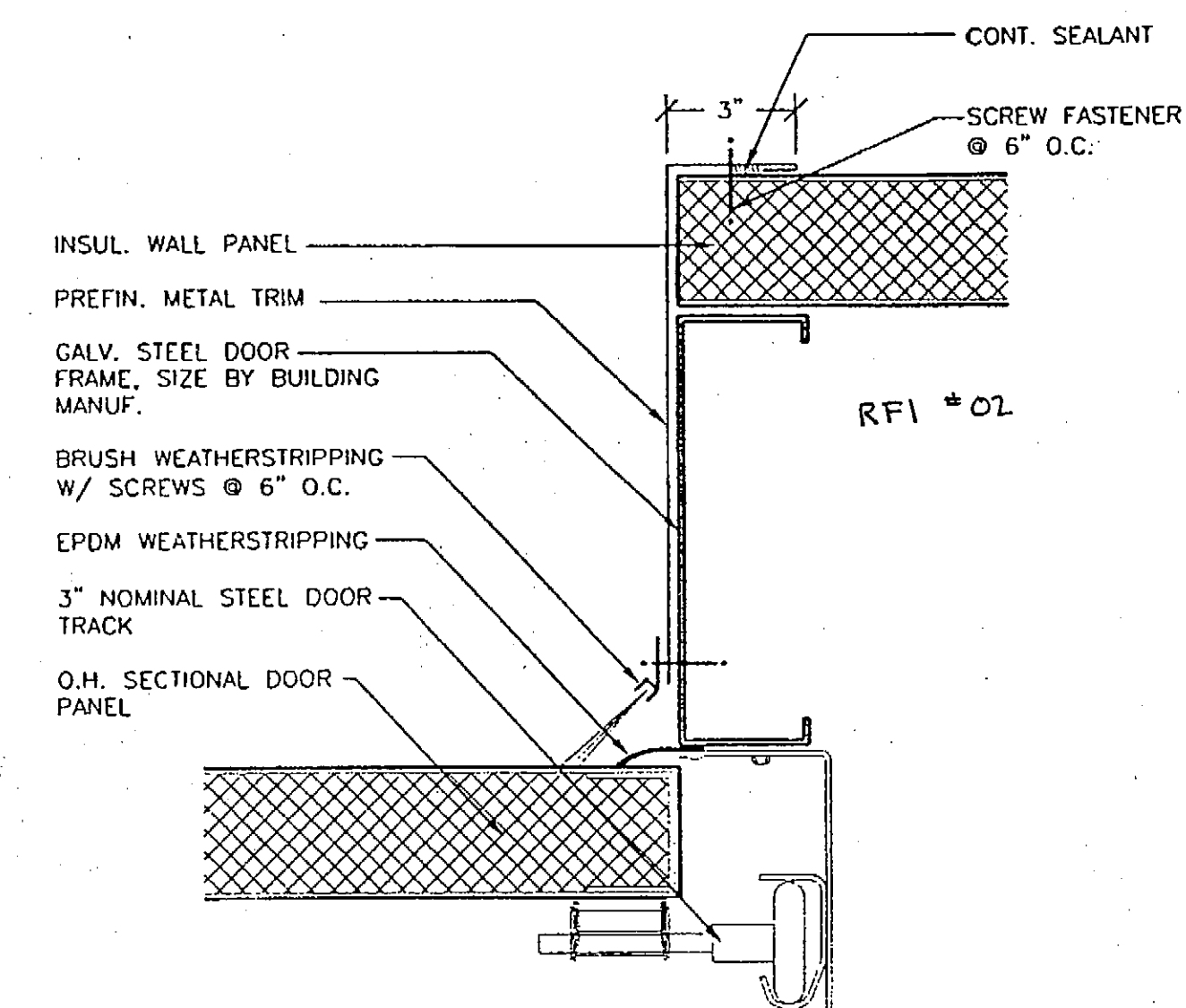
4 MAN DOOR HEAD DETAIL
Scale: 3"=1'-0" DOOR_HEAD



5 MAN DOOR JAMB DETAIL
Scale: 3"=1'-0" DOOR_JAMB



1 OVERHEAD DOOR HEAD
Scale: 3"=1'-0" DOOR_OVER_HEAD



2 OVERHEAD DOOR JAMB
Scale: 3"=1'-0" DOOR_OVER_JAMB

RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HOONAH

HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING

ALASKA

DESIGNED BY:

DRAWN BY: CW

CHECKED BY: RM

PROJECT NO. 68389
AIP 3-02-0125-0403

DATE:
NOVEMBER 17, 2003

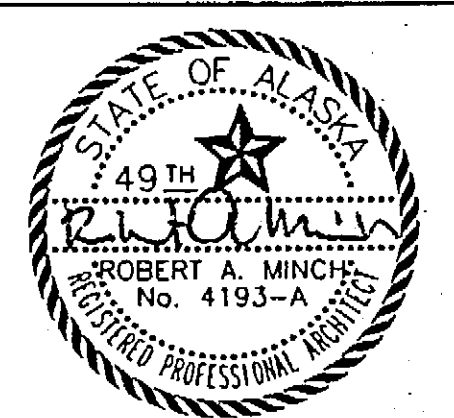
SHEET A702 OF 39

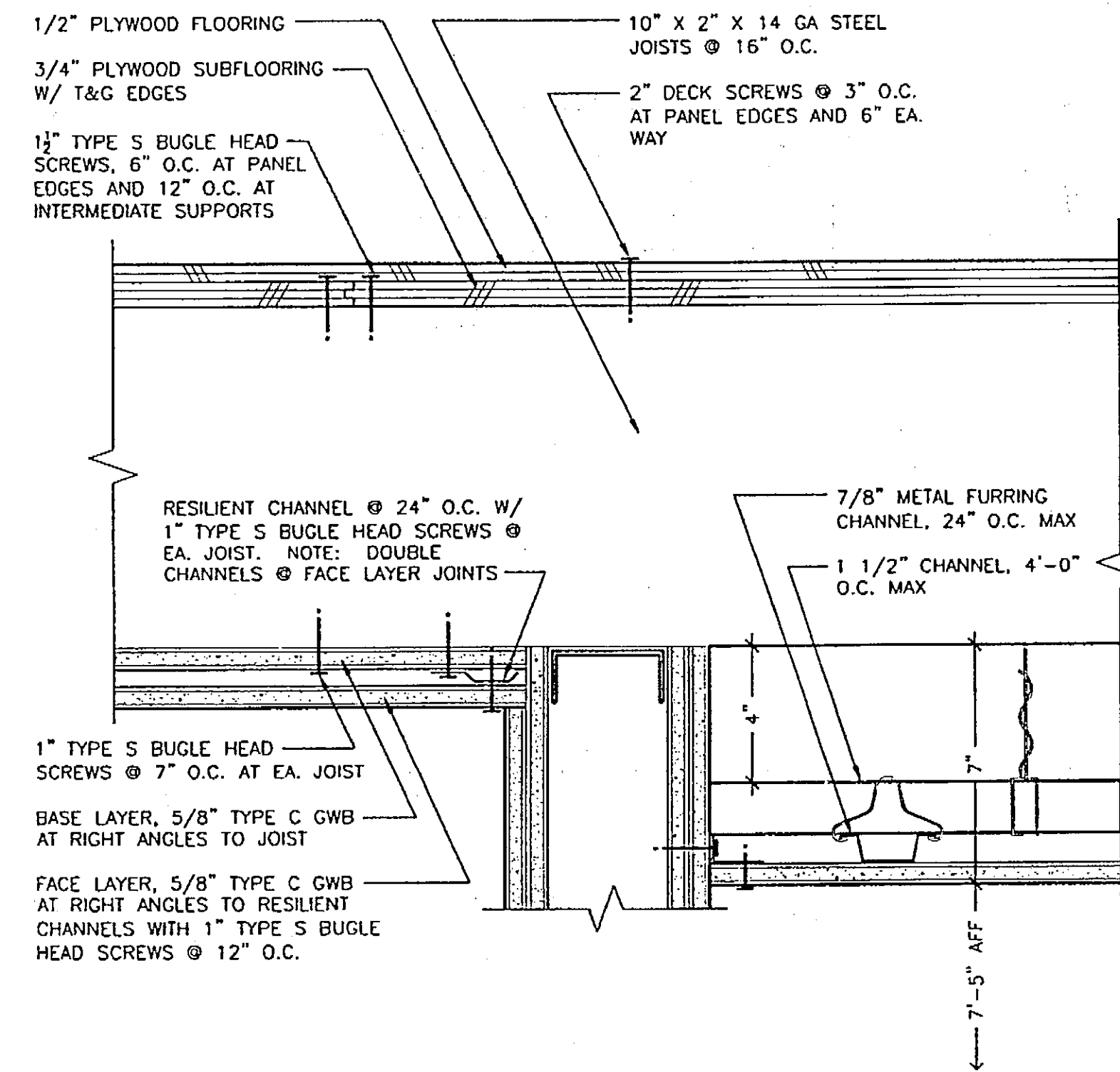
DRAWINGS PRINTED ON 11"x17"
ARE DRAWN 1/2 PRINTED SCALE

PLANS DEVELOPED BY:
MINCH RITTER VOELCKERS
ARCHITECTS

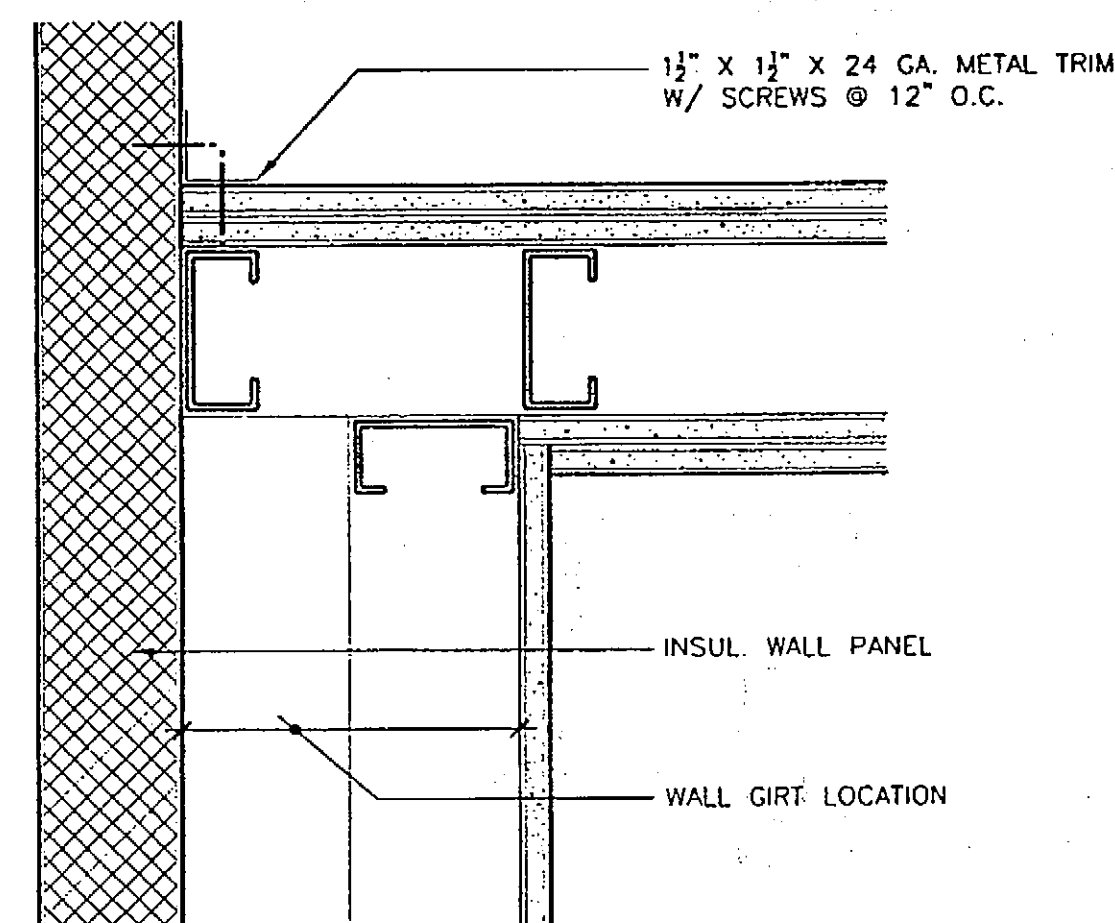
NOTE:
DO NOT SCALE FROM THESE
PLANS - USE DIMENSIONS

ARCHITECT'S SEAL

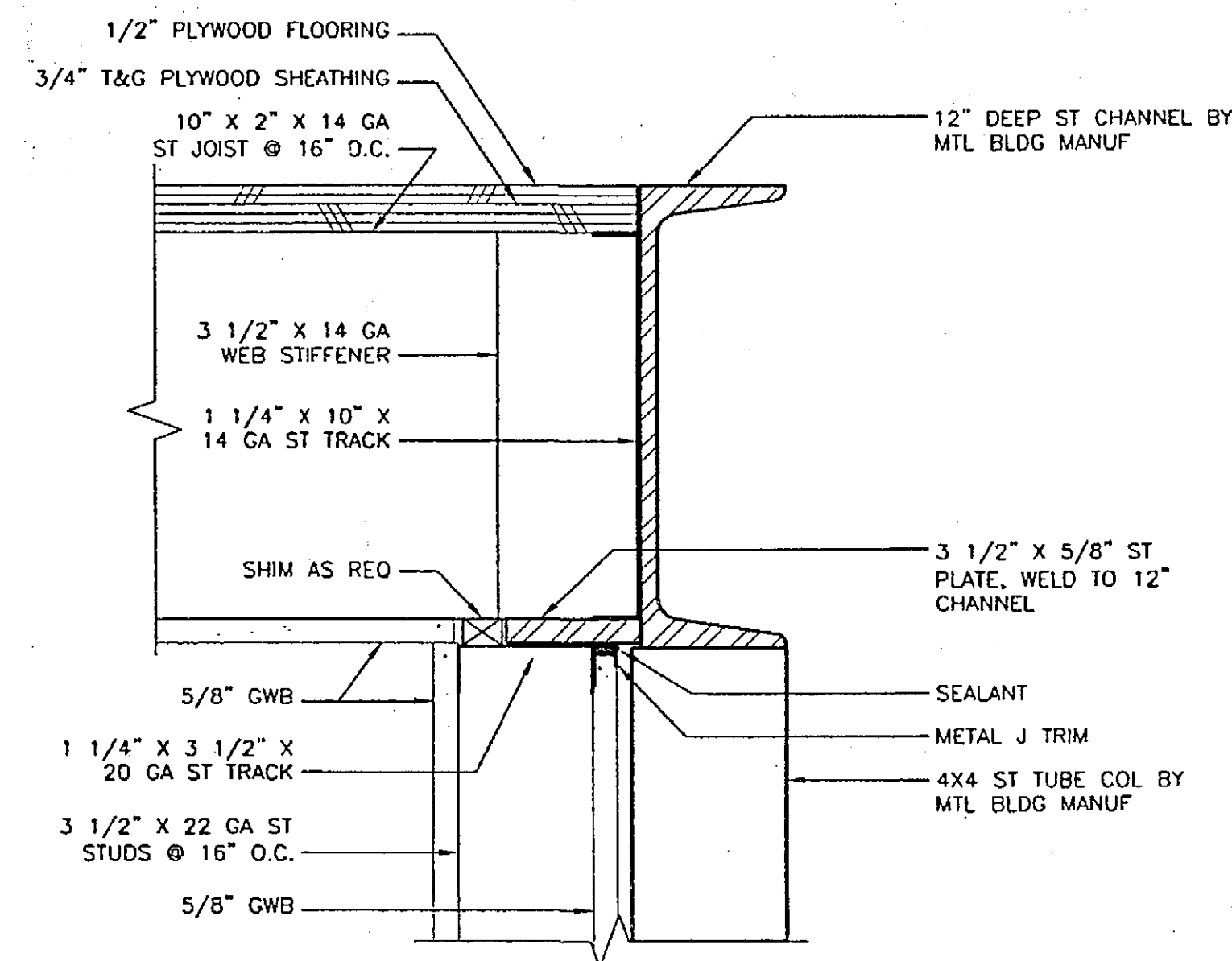




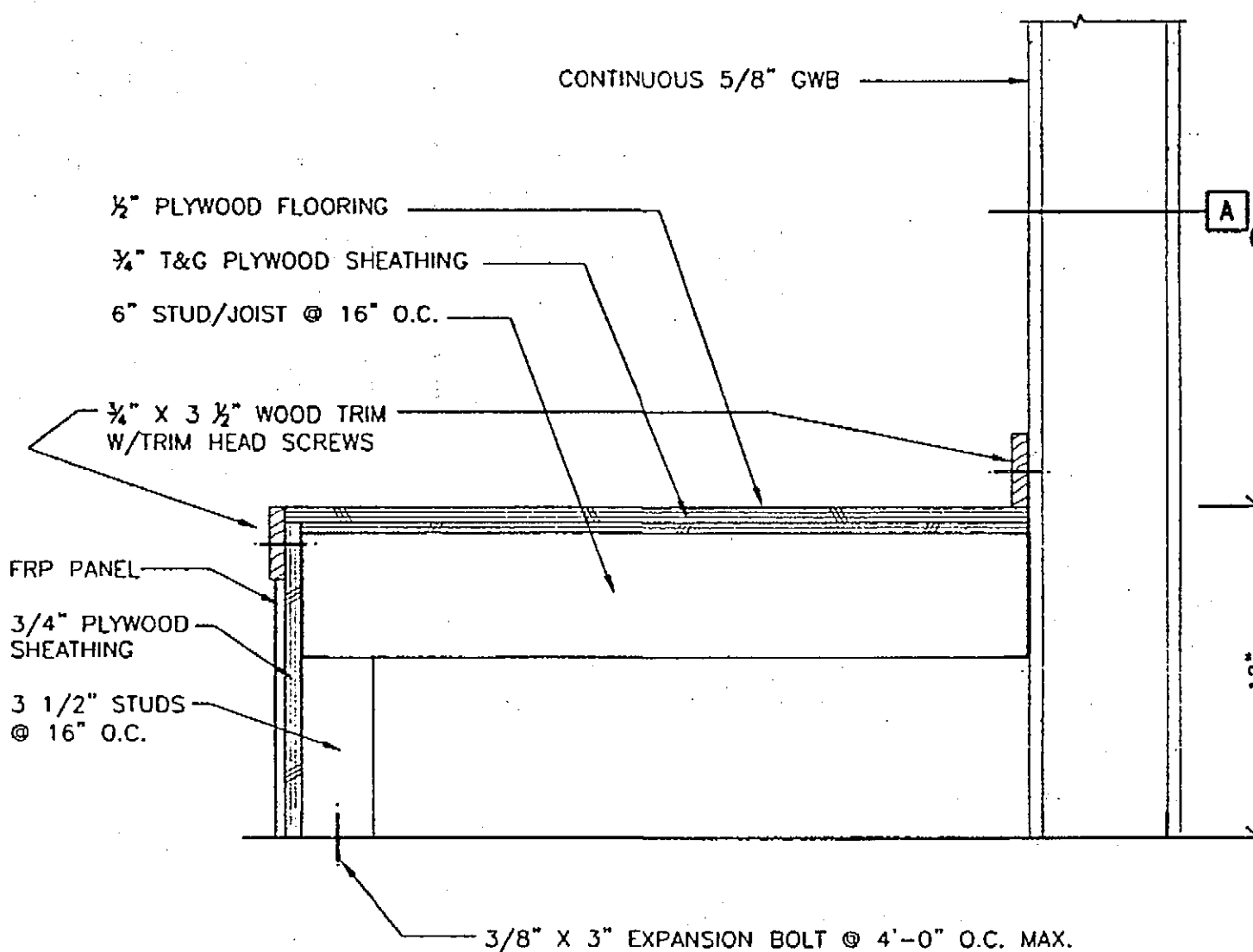
5 FLOOR / CEILING ASSEMBLY
Scale: 3"=1'-0" FLOOR_CEILING



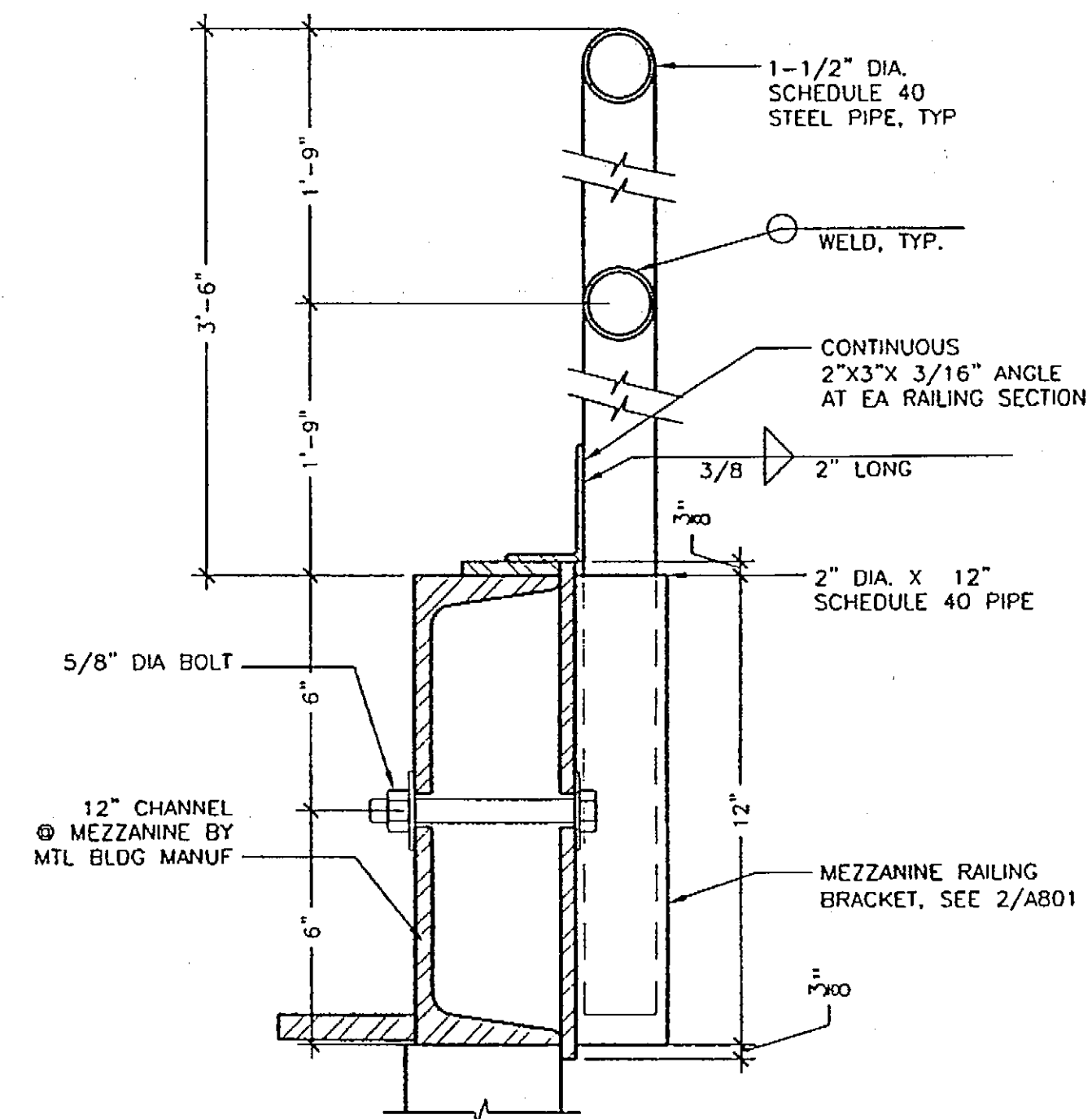
6 WALL INTERSECTION
Scale: 3"=1'-0" WALL_INTERSECTION



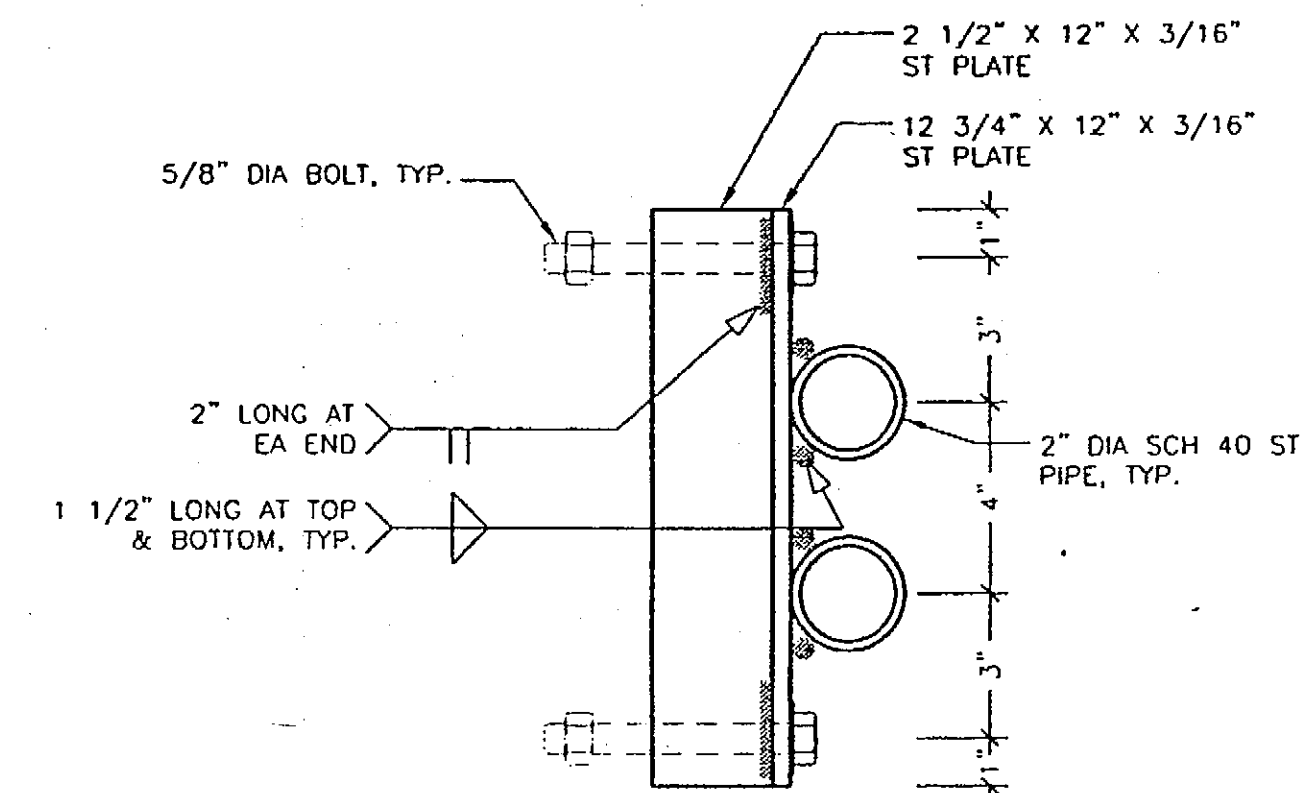
3 MEZANNINE FRAMING
Scale: 3"=1'-0" MEZANNINE FRAMING



4 PLATFORM SECTION
Scale: 1-1/2"=1'-0" PLATFORM SECTION



1 MEZANNINE RAILING
Scale: 3"=1'-0" MEZANNINE RAILING



2 MEZANNINE RAILING BRACKET PLAN
Scale: 3"=1'-0" MEZANNINE RAILING 2

NOTE:
ADJUST BRACKET DETAIL FOR
MEZANNINE FRAMING, IF REQUIRED.

DRAWINGS PRINTED ON 11"x17"
ARE DRAWN 1/2" PRINTED SCALE

PLANS DEVELOPED BY:
MINCH RITTER VOELCKERS
ARCHITECTS

NOTE:
DO NOT SCALE FROM THESE
PLANS - USE DIMENSIONS

ARCHITECT'S SEAL



PATH:	BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS			

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HOONAH

HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING

ALASKA

DESIGNED BY:

DRAWN BY: DE/MPA

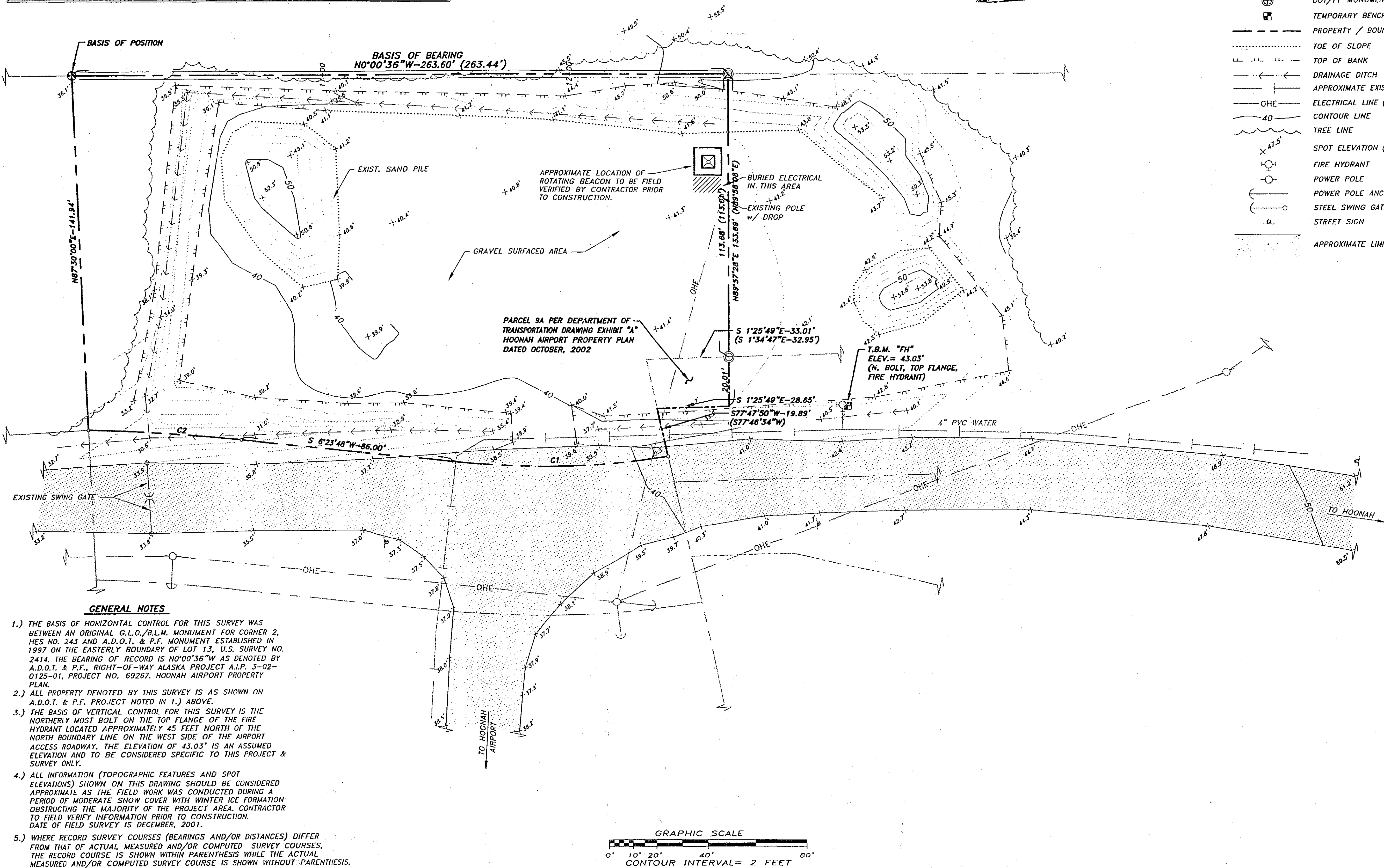
CHECKED BY: RM

PROJECT NO. 68389
AIP 3-02-0125-0403

DATE:
NOVEMBER 17, 2003

SHEET A801 OF 39

CURVE DATA							
CURVE	ARC	DELTA	RADIUS	DEGREE OF CURVE	CHORD LENGTH	CHORD BEARING	TAN LENGTH
C1	86.82	15°14'24"	326.42	17°33'09"	86.57	S 1°13'24"E	43.67
C2	60.99	04°47'12"	730.00	07°50'55"	60.97	S 4°00'12"W	30.51

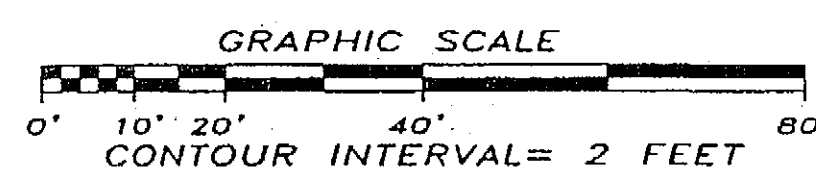


SYMBOLS

	G.L.O./B.L.M. MONUMENT (RECOVERED BY THIS SURVEY)
	DOT/FF MONUMENT (RECOVERED BY THIS SURVEY)
	TEMPORARY BENCH MARK (SET THIS SURVEY)
	PROPERTY / BOUNDARY LINE
	TOE OF SLOPE
	TOP OF BANK
	DRAINAGE DITCH
	APPROXIMATE EXISTING WATER LINE
	ELECTRICAL LINE (OVERHEAD)
	CONTOUR LINE
	TREE LINE
	SPOT ELEVATION (BY THIS SURVEY)
	FIRE HYDRANT
	POWER POLE
	POWER POLE ANCHOR
	STEEL SWING GATE
	STREET SIGN
	APPROXIMATE LIMITS OF ASPHALT PAVEMENT

GENERAL NOTES

- 1.) THE BASIS OF HORIZONTAL CONTROL FOR THIS SURVEY WAS BETWEEN AN ORIGINAL G.L.O./B.L.M. MONUMENT FOR CORNER 2, HES NO. 243 AND A.D.O.T. & P.F. MONUMENT ESTABLISHED IN 1997 ON THE EASTERLY BOUNDARY OF LOT 13, U.S. SURVEY NO. 2414. THE BEARING OF RECORD IS N0°00'36"W AS DENOTED BY A.D.O.T. & P.F., RIGHT-OF-WAY ALASKA PROJECT A.I.P. 3-02-0125-01, PROJECT NO. 69267, HOONAH AIRPORT PROPERTY PLAN.
- 2.) ALL PROPERTY DENOTED BY THIS SURVEY IS AS SHOWN ON A.D.O.T. & P.F. PROJECT NOTED IN 1.) ABOVE.
- 3.) THE BASIS OF VERTICAL CONTROL FOR THIS SURVEY IS THE NORTHERLY MOST BOLT ON THE TOP FLANGE OF THE FIRE HYDRANT LOCATED APPROXIMATELY 45 FEET NORTH OF THE NORTH BOUNDARY LINE ON THE WEST SIDE OF THE AIRPORT ACCESS ROADWAY. THE ELEVATION OF 43.03' IS AN ASSUMED ELEVATION AND TO BE CONSIDERED SPECIFIC TO THIS PROJECT & SURVEY ONLY.
- 4.) ALL INFORMATION (TOPOGRAPHIC FEATURES AND SPOT ELEVATIONS) SHOWN ON THIS DRAWING SHOULD BE CONSIDERED APPROXIMATE AS THE FIELD WORK WAS CONDUCTED DURING A PERIOD OF MODERATE SNOW COVER WITH WINTER ICE FORMATION OBSTRUCTING THE MAJORITY OF THE PROJECT AREA. CONTRACTOR TO FIELD VERIFY INFORMATION PRIOR TO CONSTRUCTION. DATE OF FIELD SURVEY IS DECEMBER, 2001.
- 5.) WHERE RECORD SURVEY COURSES (BEARINGS AND/OR DISTANCES) DIFFER FROM THAT OF ACTUAL MEASURED AND/OR COMPUTED SURVEY COURSES, THE RECORD COURSE IS SHOWN WITHIN PARENTHESIS WHILE THE ACTUAL MEASURED AND/OR COMPUTED SURVEY COURSE IS SHOWN WITHOUT PARENTHESIS.



PATH:	DATE:	DESCRIPTION OF CHANGE:
BY:		

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HOONAH

HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING
EXISTING SITE CONDITIONS

ALASKA

DESIGNED BY:
JMP
DRAWN BY:
KAP
CHECKED BY:
MAJ

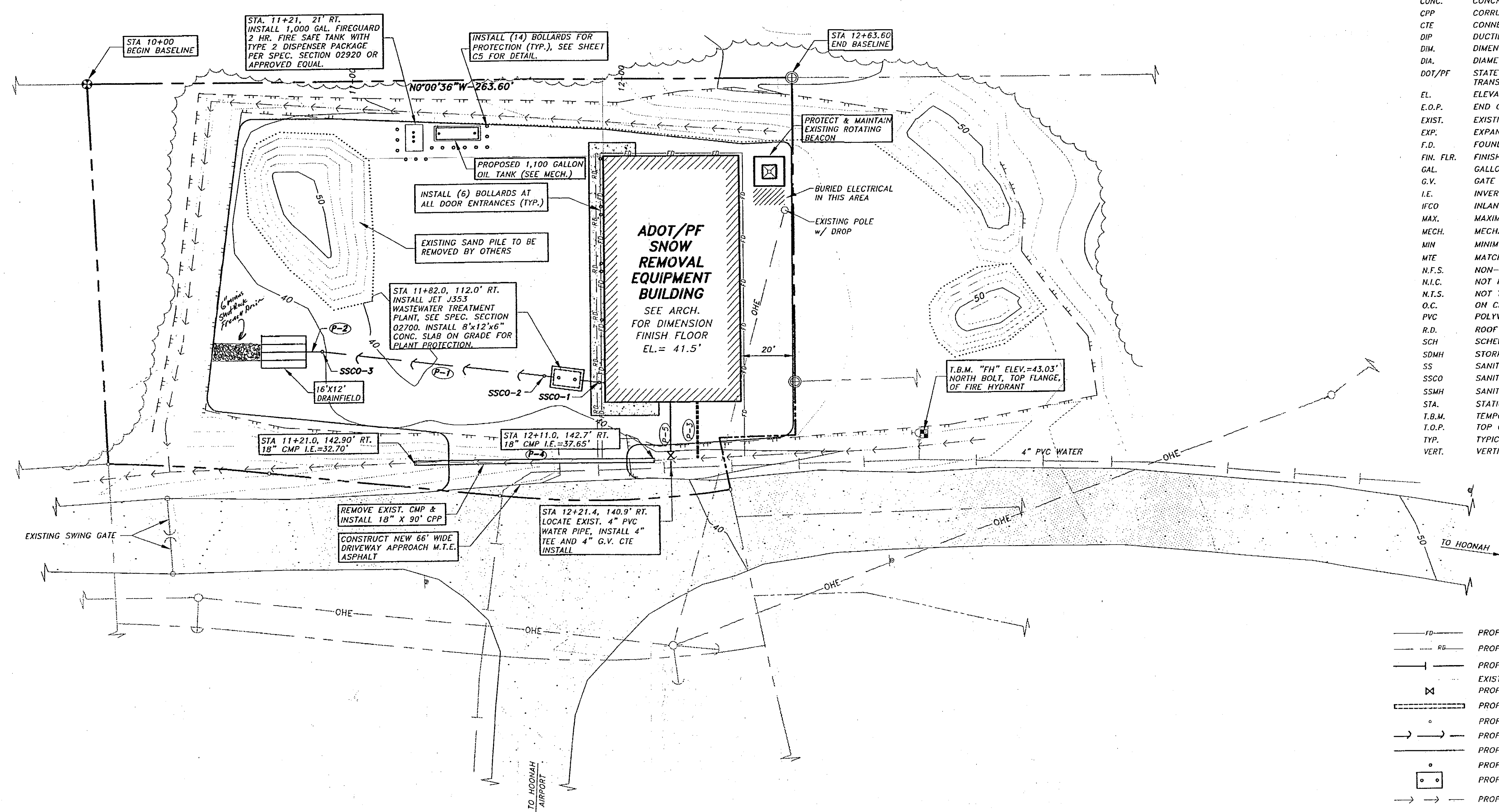
PROJECT NO. 68389
AIP 3-02-0125-0403
DATE:
11/17/03
SHEET C1 OF 39

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
DO NOT SCALE FROM THESE
PLANS - USE DIMENSIONS

ENGINEER'S SEAL

1/2001PROJ/011459.6.3.dwg PLOT: November 16, 2003 at 9:33am



PIPE SUMMARY THIS SHEET					SSCO-1		SSCO-2	
PIPE	DIAM.	LENGTH	TYPE	SLOPE(%)	STA 11+90.6, 113.1' RT.		STA 11+69.9, 111.0' RT.	
P-1	4"	87'	PVC (SCH 80)	1.0%	LID EL.=41.00'		LID EL.=41.00'	
P-2	4"	6'	PVC (SCH 80)	1.0%	4" PVC I.E.=37.75'		4" PVC I.E.=37.70'	
P-3	6"	20'	PVC	2.0%				
P-4	18"	90'	CPP	5.5%				
P-5	4"	22'	DIP					
NOTE: SLOPES ARE CALCULATED TO THE END OF PIPE					SSCO-3			
2) CONNECT PIPE P-3 TO FLOOR DRAIN DISCHARGE (SEE MECH.)					STA 10+94.0, 100.7' RT.			
					LID EL.=39.00'			
					4" PVC I.E.=36.83'			

RECORD OF REVISIONS		
PATH:	DATE:	DESCRIPTION OF CHANGE:

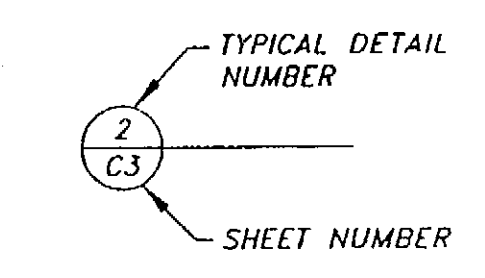
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HOONAH
ALASKA
HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING
SITE UTILITY PLAN

DESIGNED BY:	JMP	PROJECT NO. 68389
DRAWN BY:	KAP	AIP 3-02-0125-0403
CHECKED BY:	JMP	DATE: 11/17/03
		SHEET C2 OF 39

- ABBREVIATIONS**
- ARCH. ARCHITECT
 - B.O.P. BEGINNING OF PROJECT
 - C.J. CONTROL JOINT
 - CMP CORRUGATED METAL PIPE
 - CONC. CONCRETE
 - CPP CORRUGATED POLYETHYLENE PIPE
 - CTE CONNECT TO EXISTING
 - DIP DUCTILE IRON PIPE
 - DIM. DIMENSION
 - DIA. DIAMETER
 - DOT/PF STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
 - EL. ELEVATION
 - E.O.P. END OF PROJECT
 - EXIST. EXISTING
 - EXP. EXPANSION
 - F.D. FOUNDATION DRAIN
 - FIN. FLR. FINISH FLOOR
 - GAL. GALLON
 - G.V. GATE VALVE
 - I.E. INVERT ELEVATION
 - IFCO INLAND FOUNDARY COMPANY
 - MAX. MAXIMUM
 - MECH. MECHANICAL
 - MIN. MINIMUM
 - MTE MATCH TO EXISTING
 - N.F.S. NON-FROST SUSCEPTIBLE
 - N.I.C. NOT IN CONTRACT
 - N.T.S. NOT TO SCALE
 - O.C. ON CENTER
 - PVC POLYVINYL CHLORIDE PIPE
 - R.D. ROOF DRAIN
 - SCH. SCHEDULE
 - SDMH STORM DRAIN MANHOLE
 - SS. SANITARY SEWER
 - SSCO SANITARY SEWER CLEANOUT
 - SSMH SANITARY SEWER MANHOLE
 - STA. STATION
 - T.B.M. TEMPORARY BENCH MARK
 - T.O.P. TOP OF PIPE
 - TYP. TYPICAL
 - VERT. VERTICAL

- SYMBOLS**
- FD PROPOSED 6" CPP FOUNDATION DRAIN
 - RD PROPOSED 6" CPP ROOF DRAIN
 - W PROPOSED WATER LINE
 - W EXISTING WATER LINE
 - WV PROPOSED WATER VALVE
 - SD PROPOSED STORM DRAIN PIPE
 - B PROPOSED BOLLARD LOCATION
 - S PROPOSED 4" PVC SEWER PIPE
 - GL PROPOSED GRADING LIMITS
 - SSCO PROPOSED SANITARY SEWER CLEANOUT
 - WTP PROPOSED WASTEWATER TREATMENT PLANT
 - DSW PROPOSED DRAINAGE SWALE OR DITCH

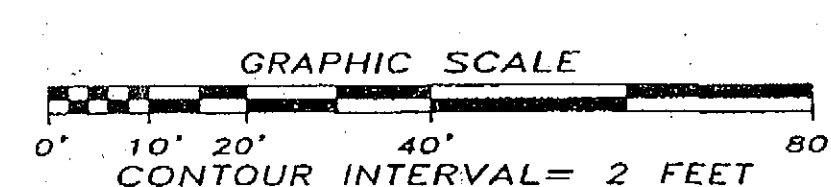


REFERENCE BUBBLE EXPLANATION

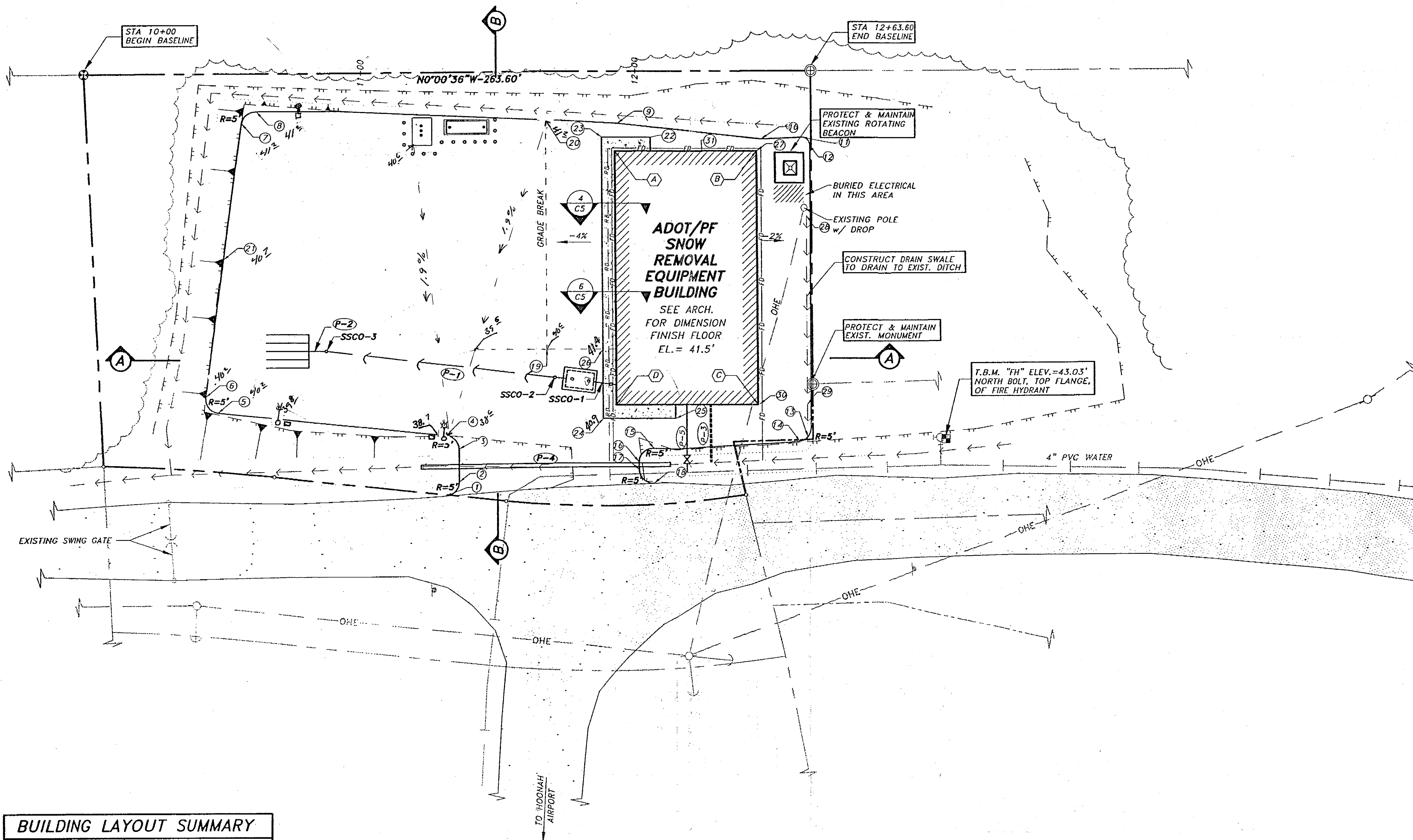
PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
DO NOT SCALE FROM THESE
PLANS - USE DIMENSIONS

ENGINEER'S SEAL



\\001\PROJ\011499.6\1\dwg\CS.dwg PLOT: November 18, 2003 at: 10:25am



FINISH GRADE SUMMARY TABLE				
POINT	STATION	OFFSET RIGHT	ELEVATION	REMARKS
1	11+29.6	153.6'	M.T.E.	
2	11+34.3	148.6'	38.3'	E.C.
3	11+34.3	136.5'	39.3'	B.C.
4	11+29.8	131.5'	40' 38"	E.C.
5	10+47.7	122.6'	40' 40"	B.C.
6	10+43.3	117.0'	40' 40"	E.C.
7	10+57.1	18.0'	38' 41"	B.C.
8	10+62.0	13.7'	38' 41"	E.C.
9	11+93.5	18.9'	40.5'	T.B.
10	12+45.2	24.7'	40.7'	T.B.
11	12+60.0	24.2'	41.5'	B.C.
12	12+63.1	27.2'	41.5'	E.C.
13	12+61.3	132.9'	41.0'	I.E. SWALE
14	12+58.2	134.4'	41.0'	E.C.
15	12+05.5	136.7'	40.4'	B.C.
16	12+00.3	141.7'	40.0'	E.C.
17	12+00.3	144.5'	39.7'	E.C.
18	12+05.5	149.5'	M.T.E.	T.B.
19	11+67.4	100.8'	40.6'	T.B.
20	11+67.4	17.6'	40' 41"	T.B.
21	10+50.2	67.5'	39' 40"	T.B.
22	12+05.1	24.0'	41.4'	T.C.
23	11+87.4	24.0'	41.4'	T.C.
24	11+87.3	125.8'	40.9'	T.C.
25	12+12.9	125.9'	41.4'	T.C.
26	11+87.3	100.8'	41.4'	T.C.
27	12+43.5	29.1'	42.2'	F.G.
28	12+61.3	52.5'	41.8'	I.E. SWALE
29	12+61.3	120.9'	41.15'	I.E. SWALE
30	12+43.5	120.9'	41.5'	F.G.
31	12+18	29.0'	41.5'	F.G.

NOTES:
1) ELEVATIONS SHOWN ARE FOR WORK UP THROUGH TOP OF BASE COURSE GRADING D-1.
B.C. = BEGIN CURVE
E.C. = END CURVE
A.P. = ANGLE POINT
P.O.C. = POINT ON CURVE
M.T.E. = MATCH TO EXISTING
T.S. = TOP OF SIDEWALK
T.B. = TOP OF BASE
T.C. = TOP OF CONCRETE
F.G. = FINISHED GRADE
BLDG. COR. = BUILDING CORNER (OUTSIDE EDGE OF FOUNDATION WALL)
2) DAYLIGHT ROOF DRAINS AND FOUNDATION DRAINS ON NORTH SIDE OF THE BUILDING TO EXISTING DITCH. SOUTH SIDE CONNECT TO STORMDRAIN PIPE P-4 WITH CPP SADDLE TEE.
3) SLOPE ROOF DRAINS AND FOUNDATION DRAINS TO DRAIN, MINIMUM 1% SLOPE.

BUILDING LAYOUT SUMMARY			
POINT	STATION	OFFSET RIGHT	REMARKS
A	11+92.37	29.05'	BLDG. COR.
B	12+43.53	29.05'	BLDG. COR.
C	12+43.53	120.89'	BLDG. COR.
D	11+92.37	120.89'	BLDG. COR.

SEE STRUCTURAL FOR FOUNDATION DETAILS/DIMENSIONS

RECORD OF REVISIONS		
PATH:	DATE:	DESCRIPTION OF CHANGE:
BY:		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HOONAH
ALASKA
HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING
SITE GRADING PLAN

DESIGNED BY: JMP
DRAWN BY: KAP
CHECKED BY: JMP

PROJECT NO. 68389
AIP 3-02-0125-0403
DATE: 11/17/03
SHEET C3 OF 39

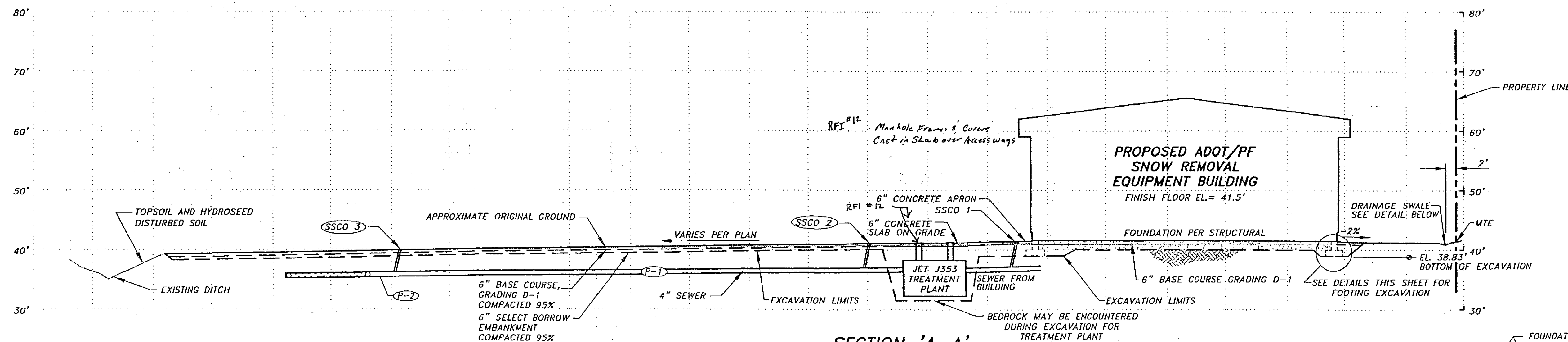
REFERENCE BUBBLE EXPLANATION
N.T.S.

TYPICAL DETAIL
NUMBER
2
C3
SHEET NUMBER

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

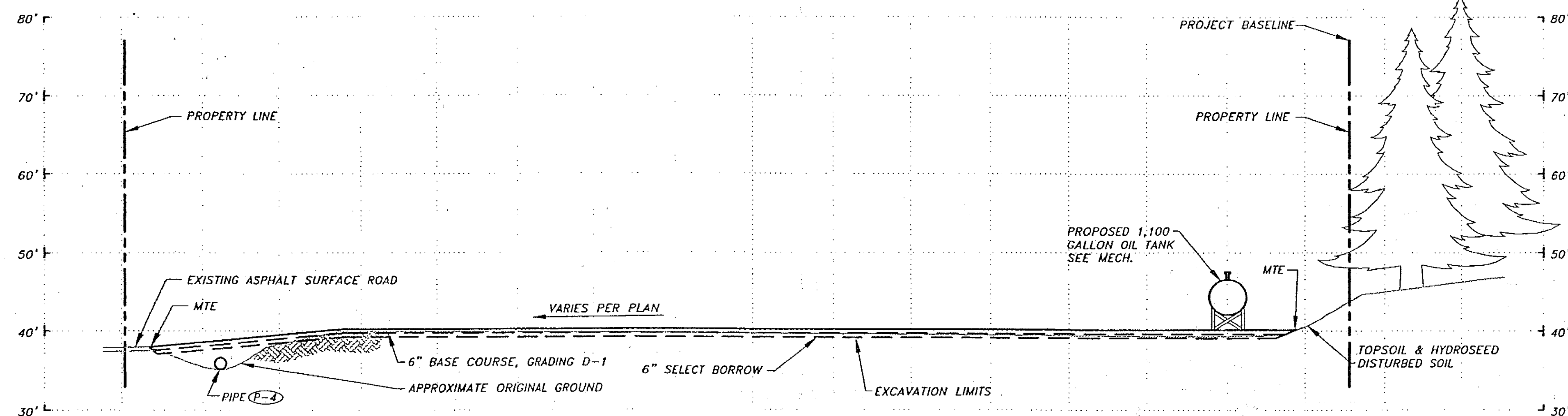
NOTE:
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PLANS - USE DIMENSIONS

ENGINEER'S SEAL



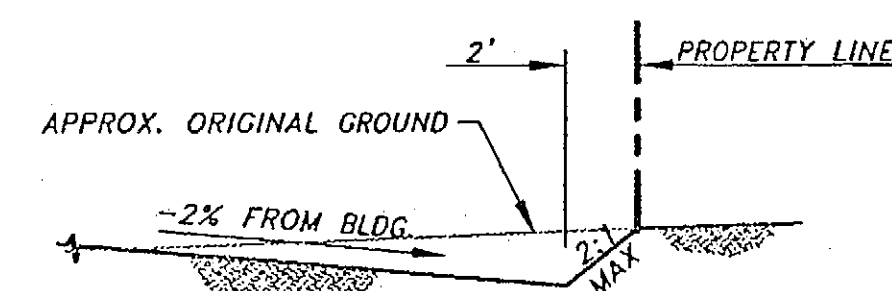
SECTION 'A-A'

SCALES: HOR. 1" = 20' (1/2 SIZE)
VERT. 1" = 20' (1/2 SIZE)

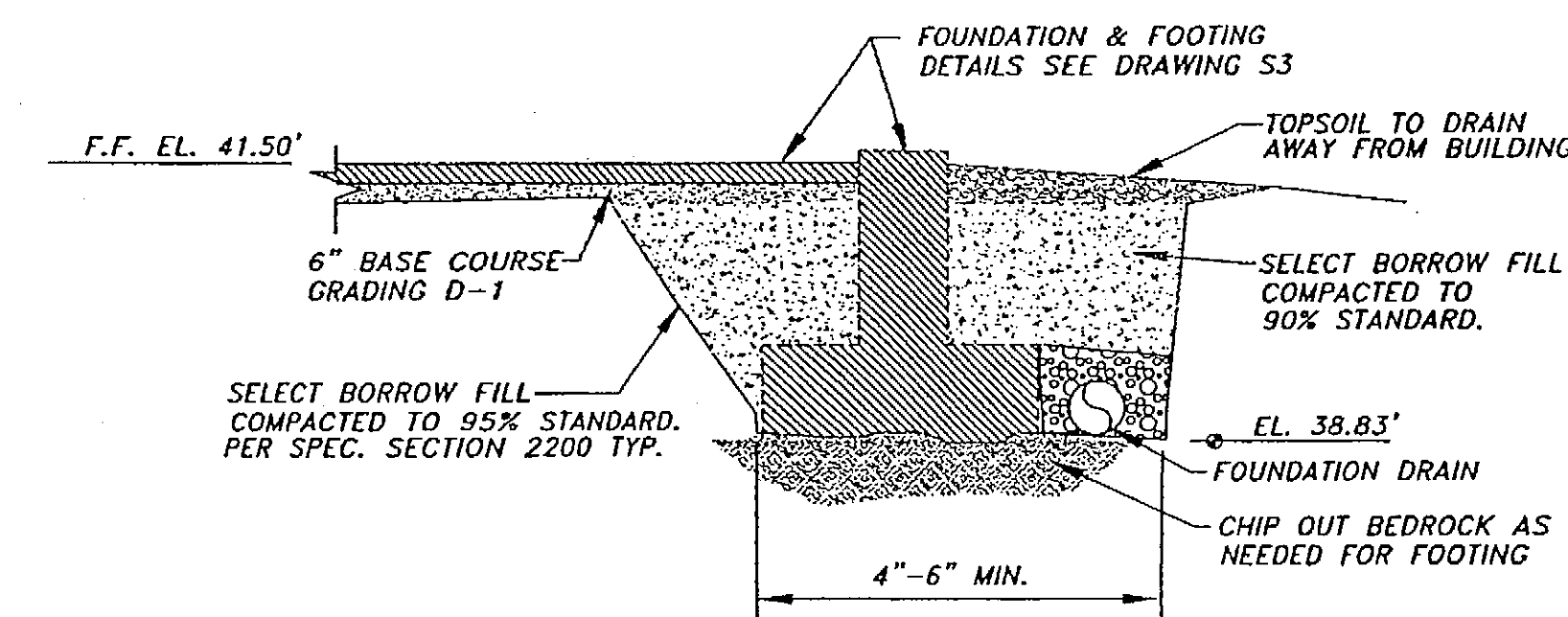


SECTION 'B-B'

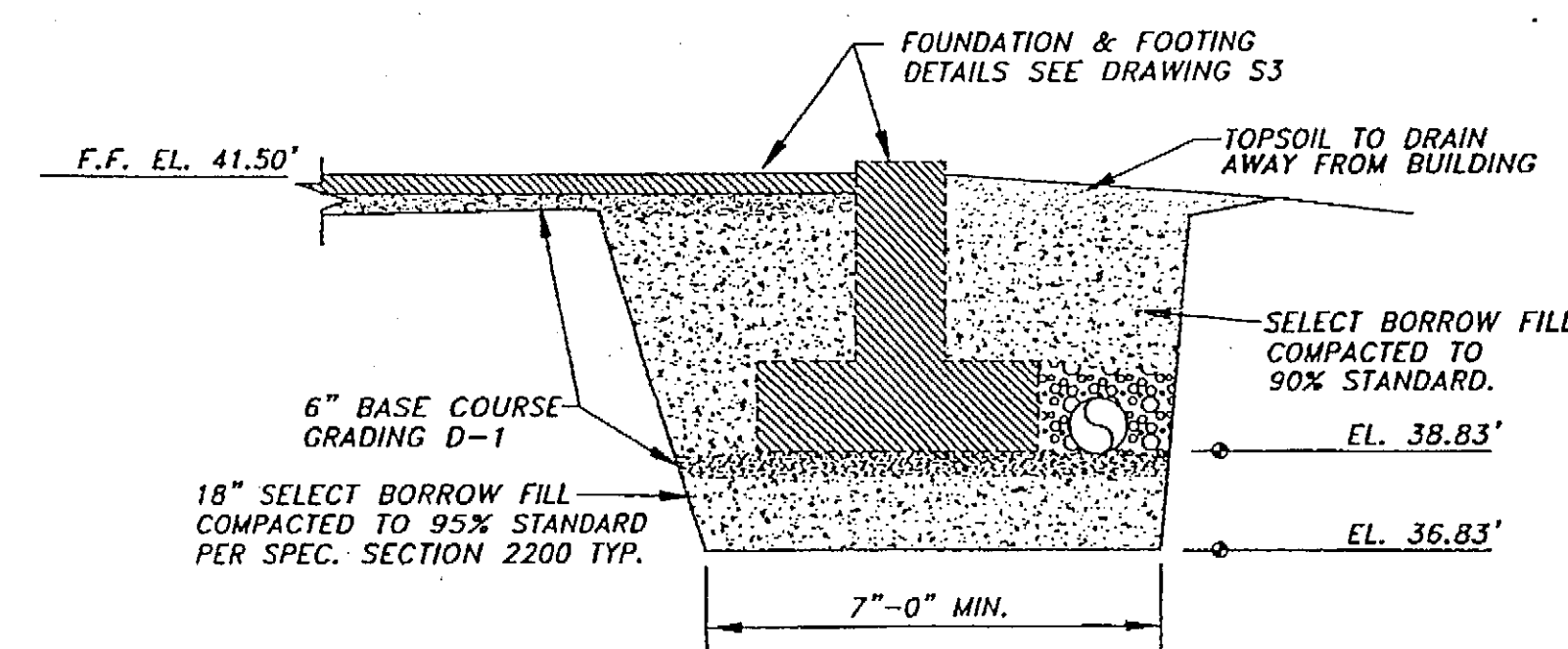
SCALES: HOR. 1" = 20' (1/2 SIZE)
VERT. 1" = 20' (1/2 SIZE)



TYP. SWALE DETAIL
N.T.S.



**TYP. FOOTING EXCAVATION
BEDROCK ENCOUNTERED**



**TYP. FOOTING EXCAVATION
BEDROCK NOT ENCOUNTERED**

RECORD OF REVISIONS		
PATH:	DATE:	DESCRIPTION OF CHANGE:
BY:		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HOONAH

HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING
SITE CROSS SECTIONS

ALASKA

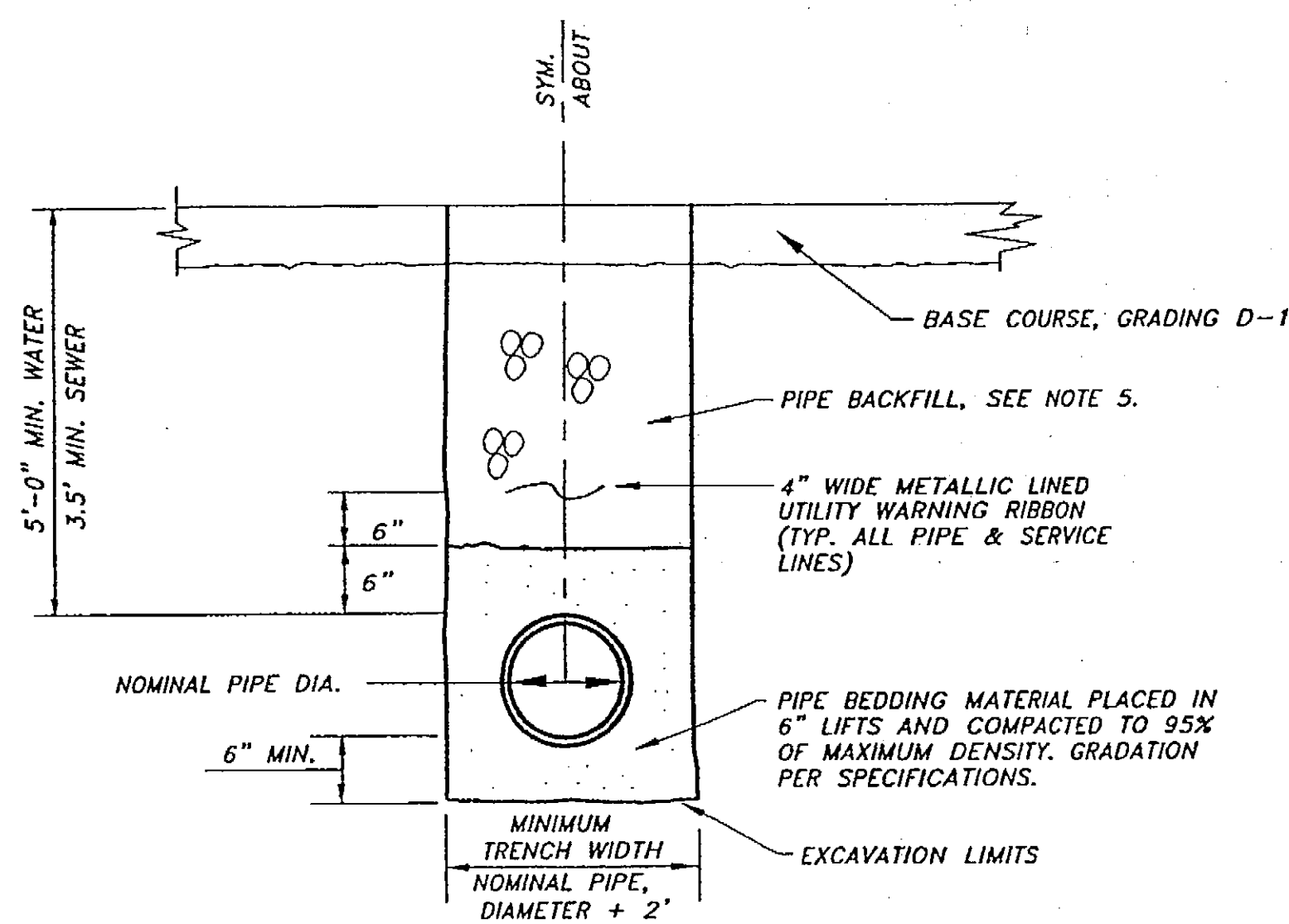
DESIGNED BY: JMP
DRAWN BY: KAP
CHECKED BY: JMP

PROJECT NO. 68389
AIP 3-02-0125-0403
DATE: 11/17/03
SHEET C4 OF 39

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
DO NOT SCALE FROM THESE
PLANS - USE DIMENSIONS

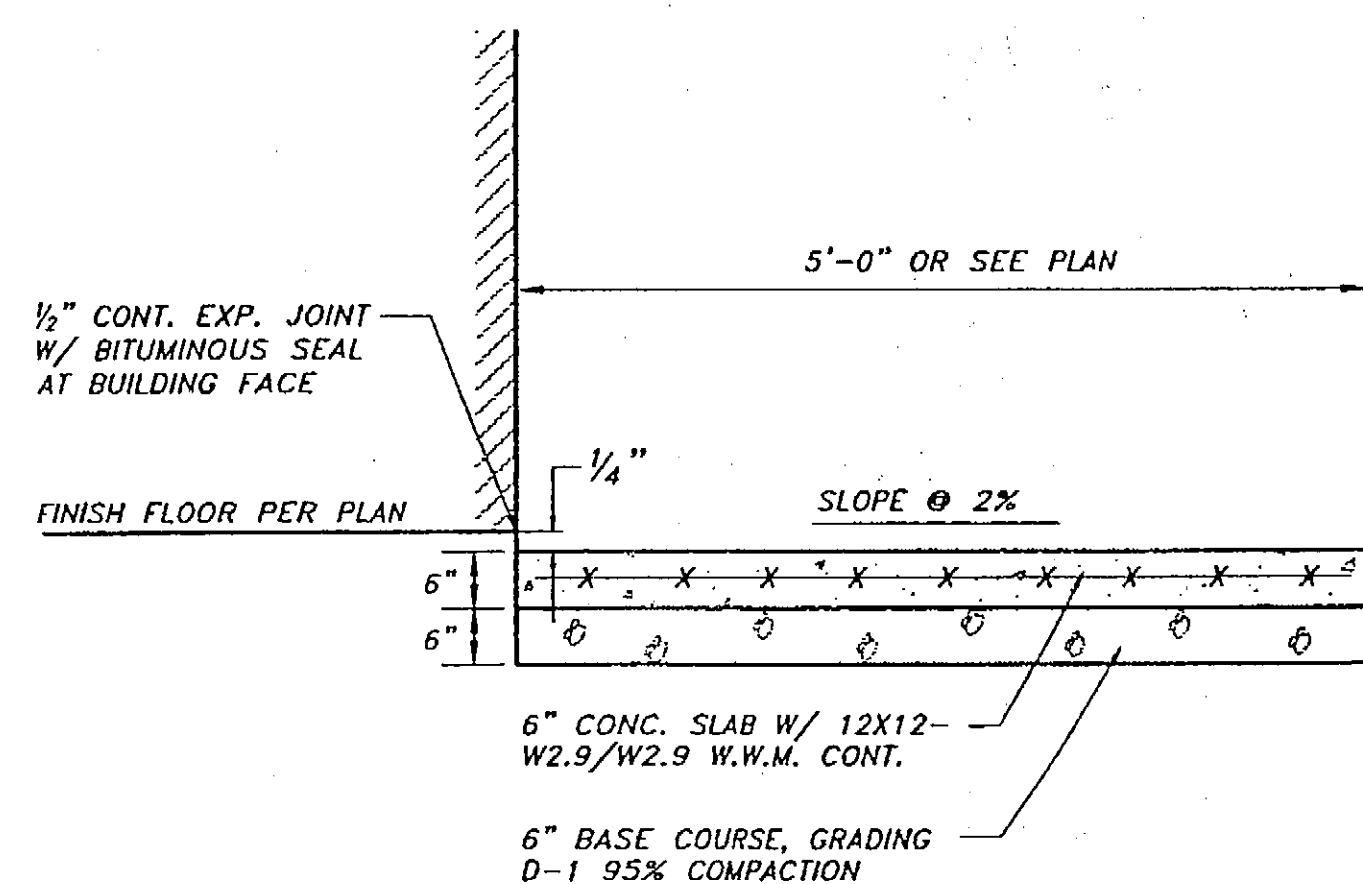
ENGINEER'S SEAL



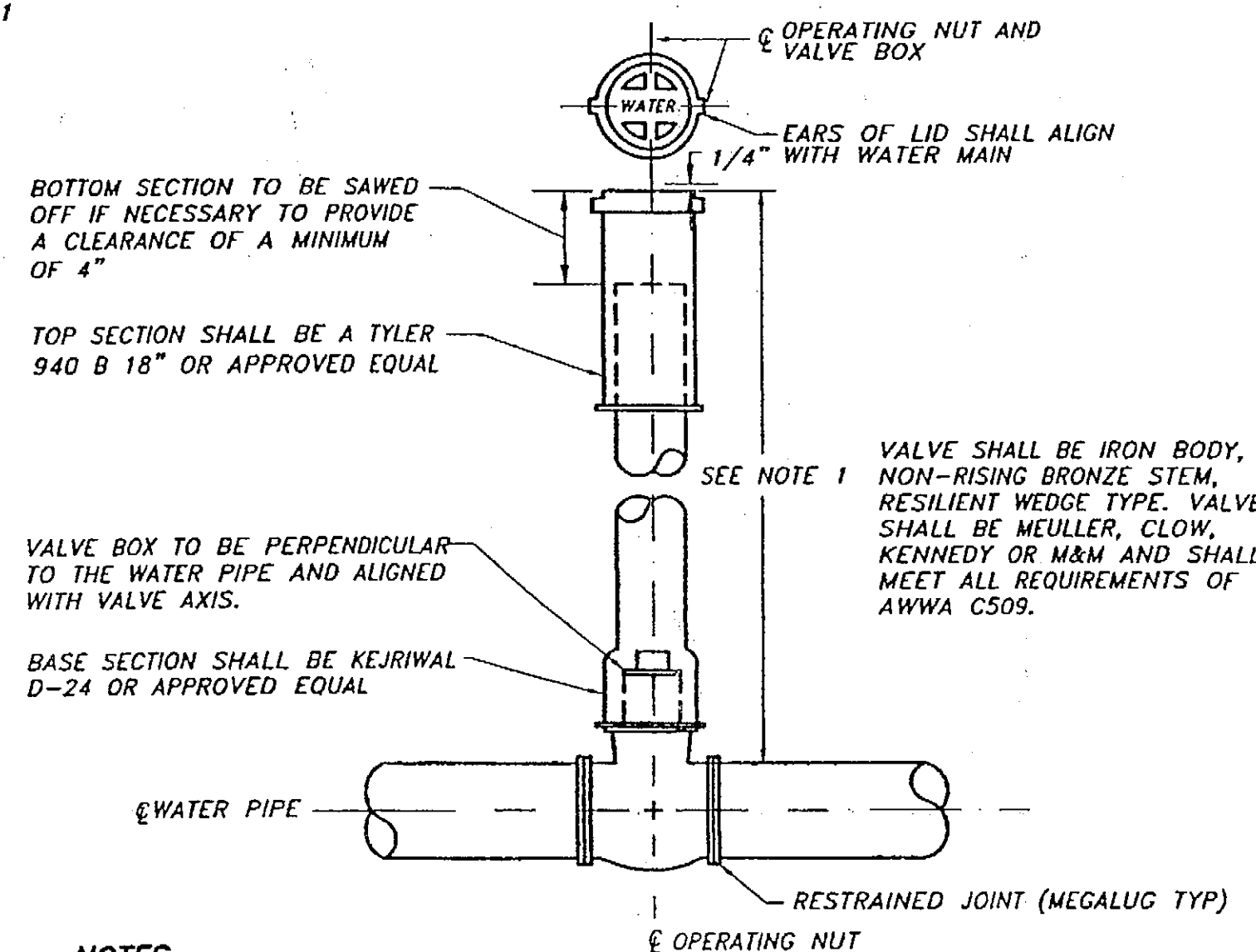
NOTES:

1. BACKFILL SHALL BE COMPACTED TO 95%.
2. TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH LOCAL, STATE, AND OSHA REGULATIONS AND REQUIREMENTS. INDICATED SLOPE IS FOR PAY QUANTITY DETERMINATION ONLY FOR IMPORTED BACKFILL GRAVEL AND RESURFACING REQUIREMENTS.
3. IF UNSUITABLE PIPE FOUNDATION MATERIAL IS ENCOUNTERED DURING EXCAVATION, ENGINEER MAY DIRECT CONTRACTOR TO OVER-EXCAVATE AND BACKFILL WITH SUITABLE MATERIAL.
4. TRENCH SECTION APPLICABLE FOR BOTH SEWER, STORM AND WATER PIPE.
5. PIPE BACKFILL SHALL BE SELECT BORROW, UNLESS OTHERWISE NOTED.

1 TYPICAL PIPE TRENCH DETAIL
N.T.S.



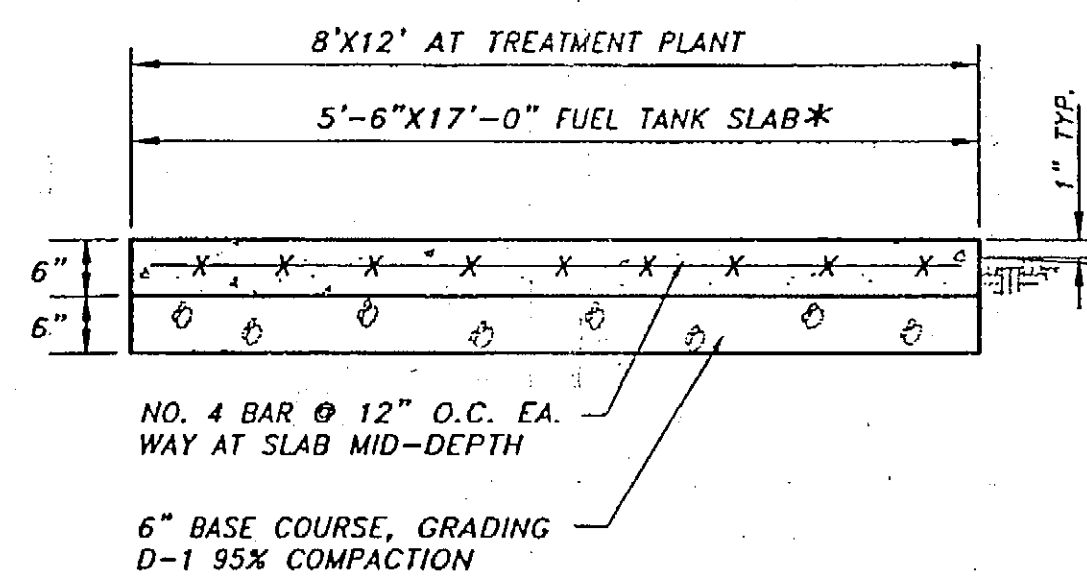
4 CONCRETE LANDING APRON
N.T.S.



NOTES:

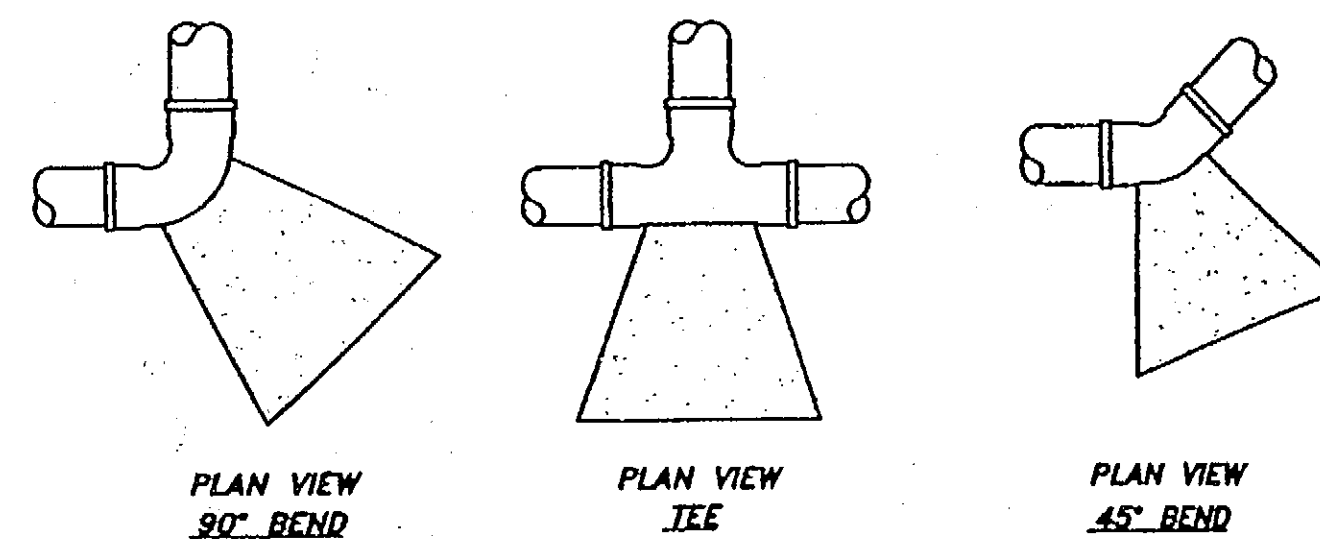
1. ON UNPAVED ROADS, RECESS TOP OF VALVE BOX 6" TO 8".
2. VALVE BOX SHALL BE CAST IRON AND SHALL HAVE A MINIMUM INSIDE DIAMETER OF 5".

2 SERVICE VALVE
N.T.S.



* CONTRACTOR TO VERIFY TANK DIMENSIONS.
SLOPE TANK FOUNDATION @ 1% TO WEST DITCH

5 TYP. CONCRETE SLAB
N.T.S.

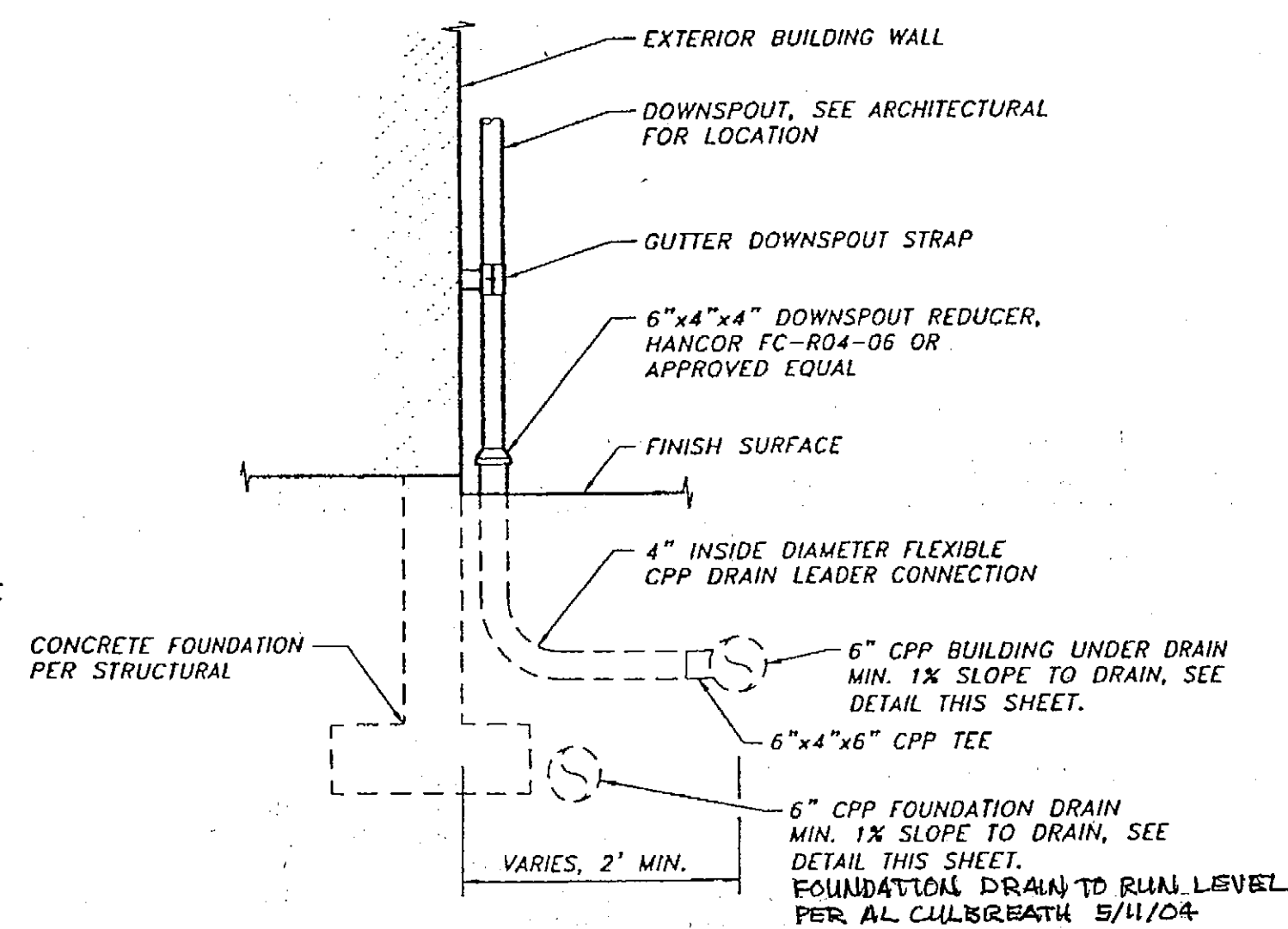


PIPE SIZE	90° BEND, TEE OR PLUG		0° - 45° BEND OR CROSS		VALVES
	MIN. CONCRETE VOLUME (YD ³)	MIN. BEARING AREA (FT ²)	MIN. CONCRETE VOLUME (YD ³)	MIN. BEARING AREA (FT ²)	MIN. CONCRETE VOLUME (YD ³)
4"	0.3	2.3	0.25	1.0	N/A

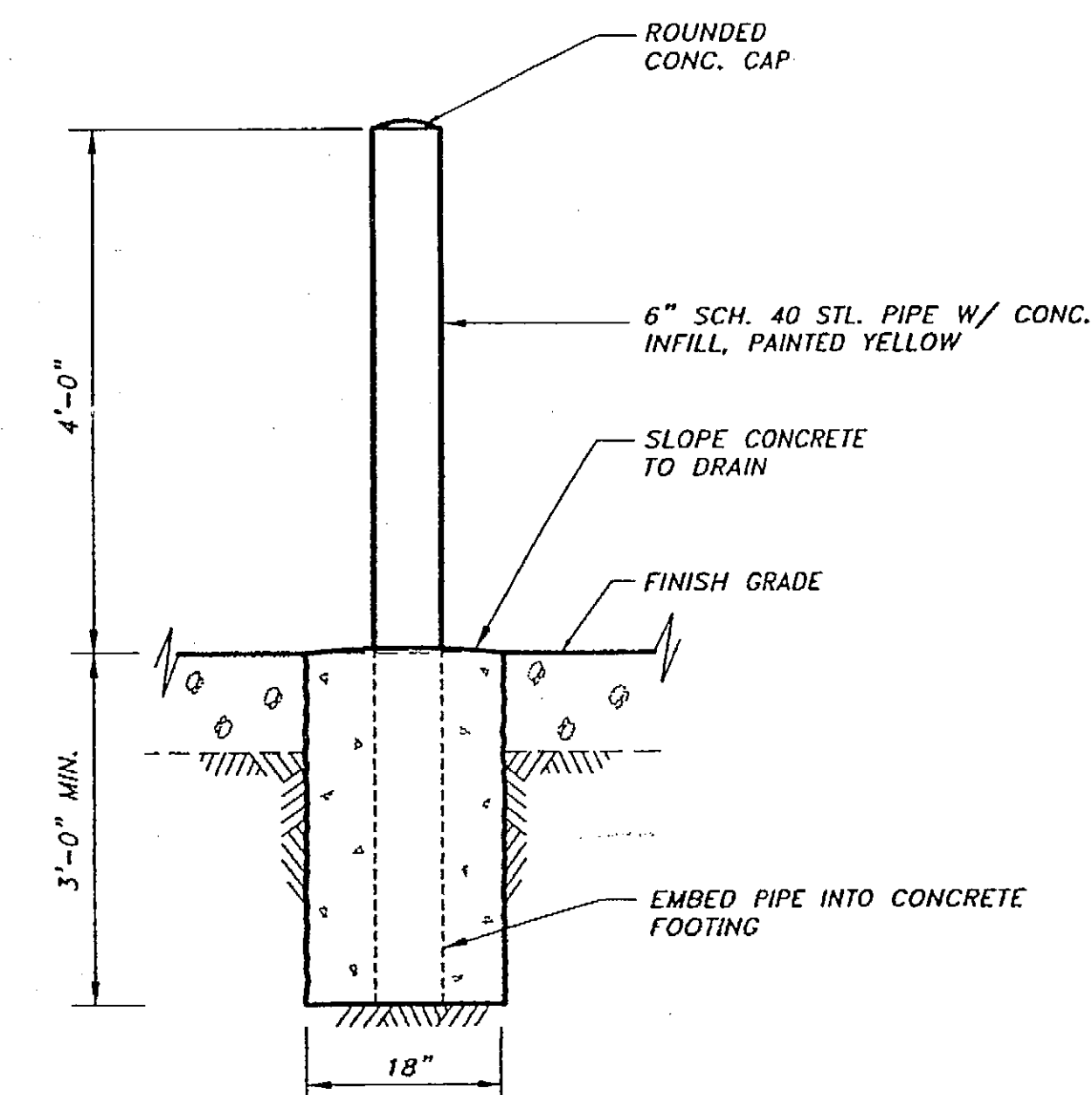
NOTES:

1. CENTER OF MASS OF THRUST BLOCK MUST LAY OPPOSITE TO AND ALIGNED AGAINST THE DIRECTION OF THRUST.
2. THRUST BLOCKS SHALL BE POURED SO THAT JOINTS OF FITTINGS, INCLUDING ALL NUTS AND FOLLOWERS REMAIN ACCESSIBLE.
3. CONCRETE THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED EARTH, UNSTABLE OR UNSUITABLE MATERIALS SHALL BE REMOVED, REPLACED AND/OR COMPACTED AS DETERMINED BY THE ENGINEER.
4. VOLUME AND BEARING SURFACE OF 2500 P.S.I. CONCRETE THRUST BLOCKS ARE BASED ON 150 P.S.I. WATER PRESSURE AND SOIL BEARING CAPACITY OF 2000 P.S.F. ALL OTHER PRESSURE AND/OR SOIL CONDITIONS ARE SUBJECT TO THE ENGINEER'S REVIEW AND APPROVAL.

8 HORIZONTAL THRUST BLOCK DETAIL
N.T.S.



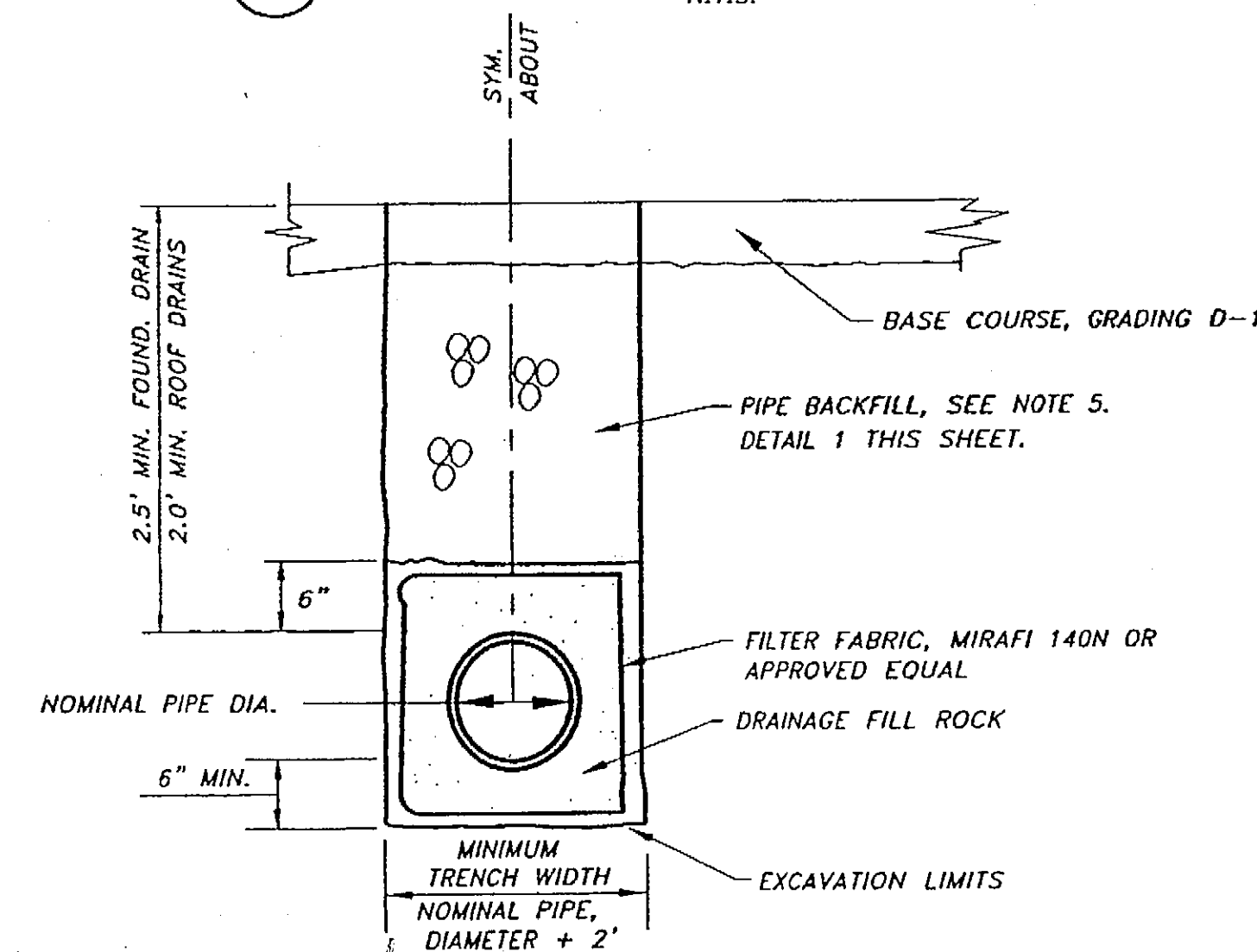
6 DOWNSPOUT DRAIN DETAIL
N.T.S.



NOTES:

1. BOLLARD SPACING TO BE MAXIMUM OF 4'-0" ON CENTER.
2. BOLLARD PLACEMENT TO BE A MINIMUM OF 3'-0" FROM PROTECTED OBJECT.

3 PROTECTION BOLLARD DETAIL
N.T.S.



7 FOUNDATION & DOWNSPOUT TRENCH DETAIL
N.T.S.

PATH:	DATE:	DESCRIPTION OF CHANGE:

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HOONAH

HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING
CONSTRUCTION DETAILS

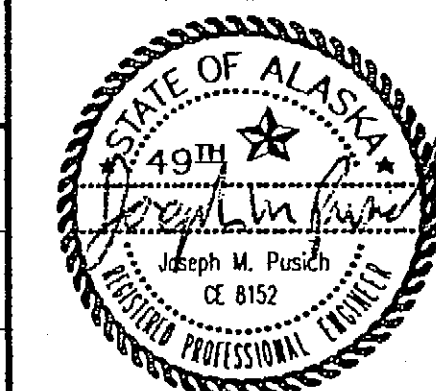
ALASKA

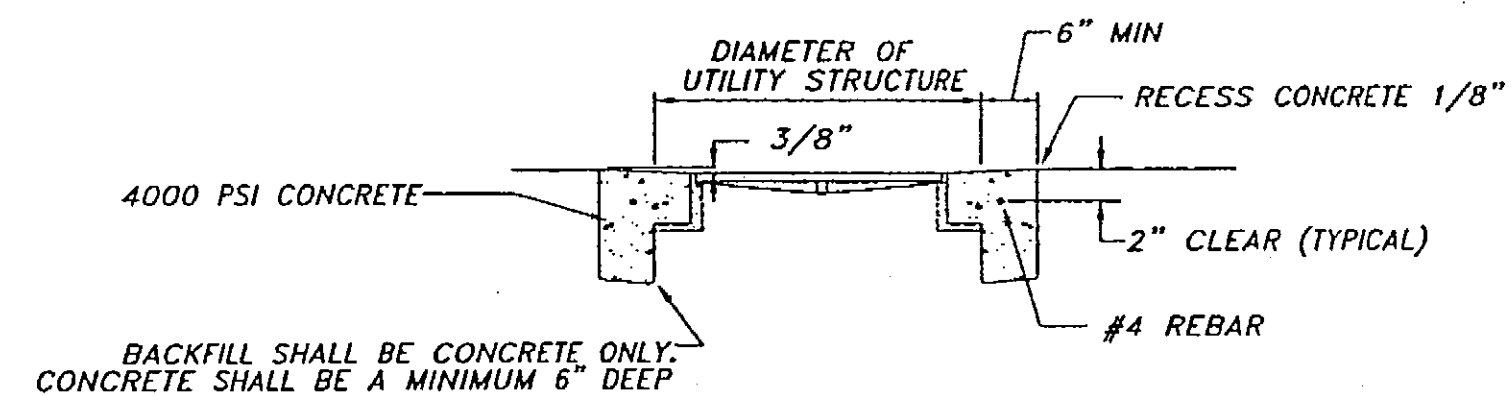
DESIGNED BY: JMP
DRAWN BY: KAP
CHECKED BY: JMP

PROJECT NO. 68389
AIP 3-02-0125-0403
DATE: 11/17/03
SHEET C5 OF 39

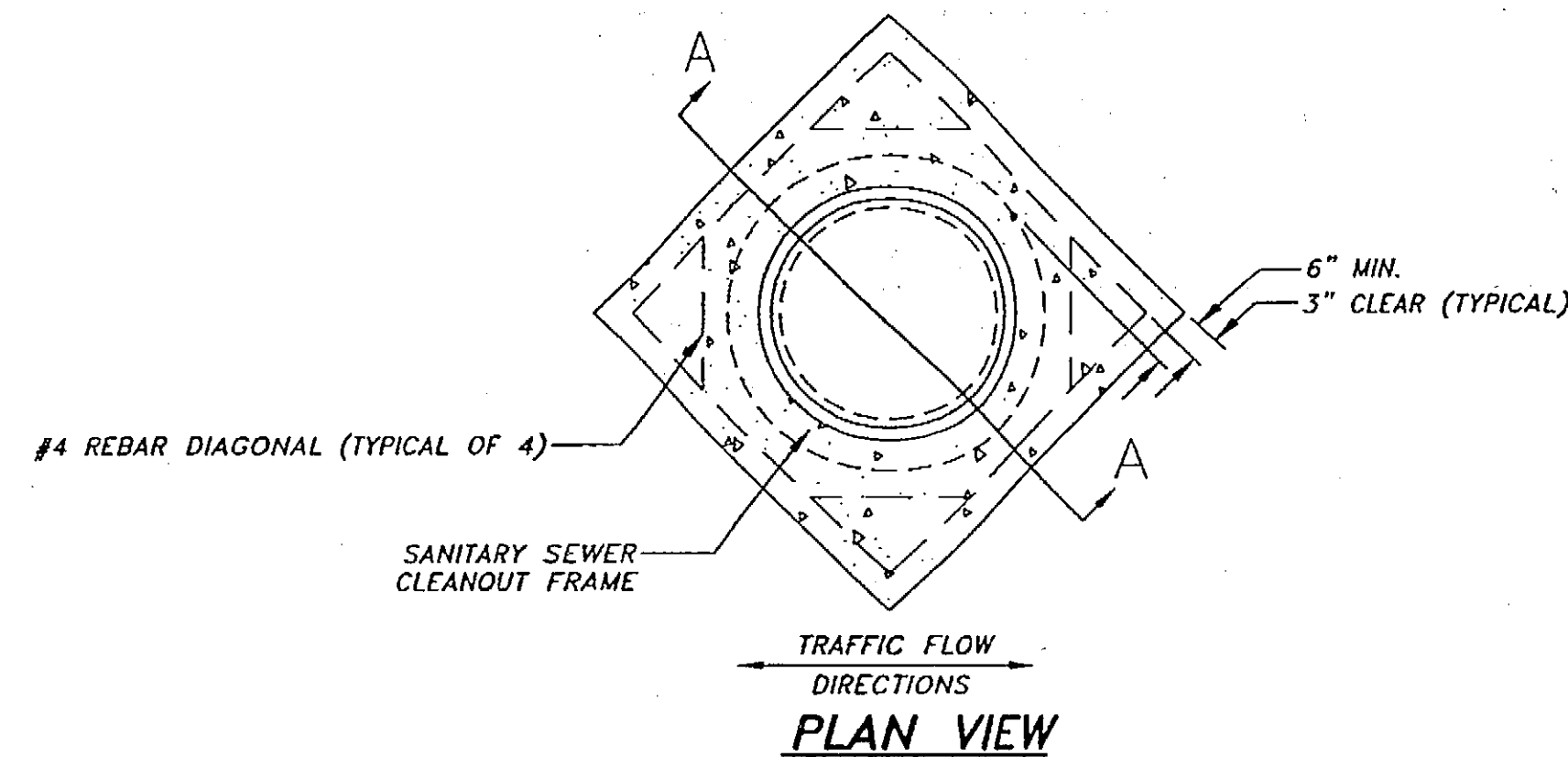
PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
DO NOT SCALE FROM THESE
PLANS - USE DIMENSIONS
ENGINEER'S SEAL





SECTION A-A

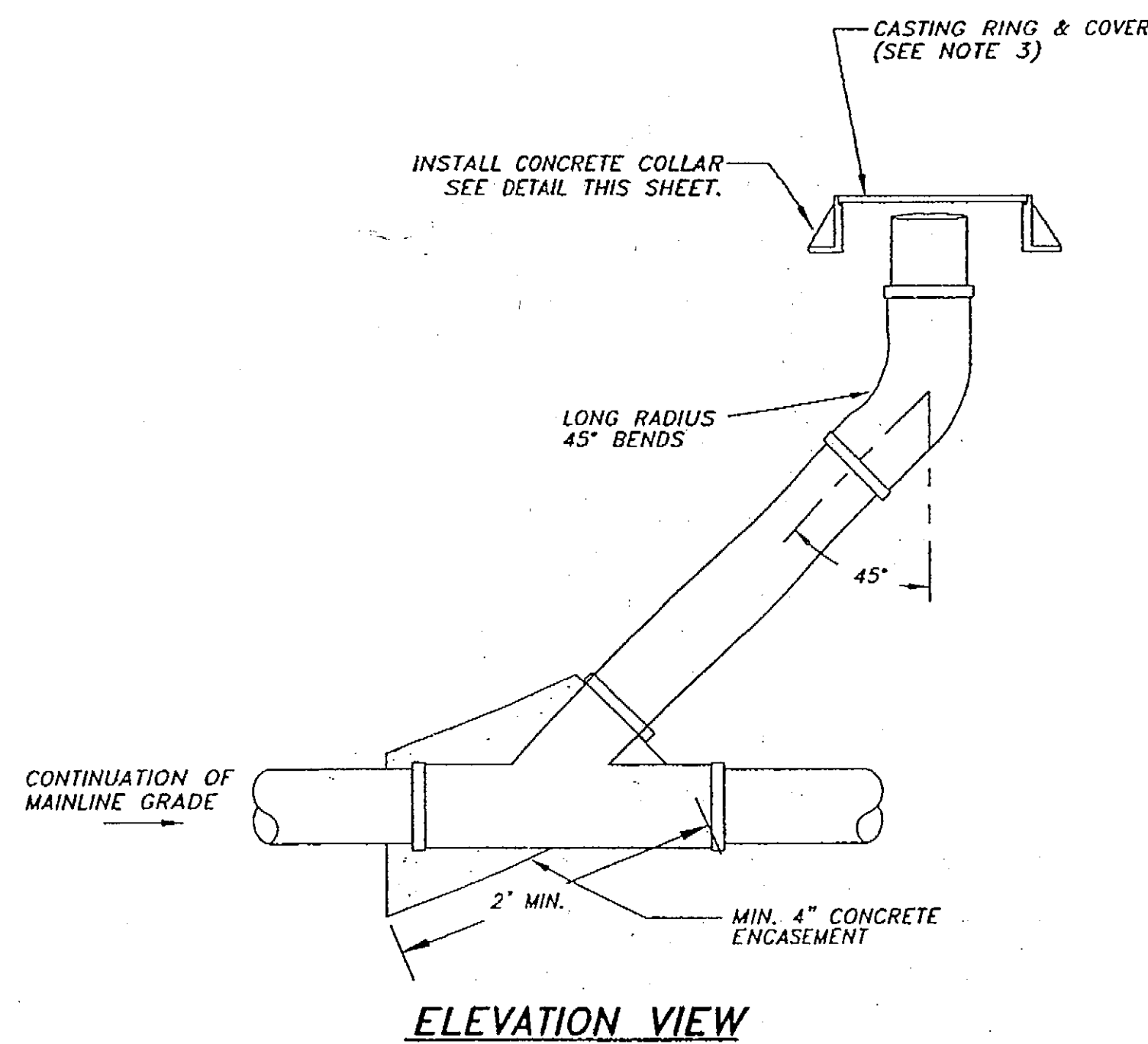


NOTES:

1. INSTALL CONCRETE COLLAR AROUND ALL UTILITY STRUCTURES THAT LIE WITHIN TRAFFIC AREAS.
2. AFTER ADJUSTING STRUCTURE TO FINISH GRADE, BACKFILL WITH CONCRETE ONLY.
3. ASHFORD FORMULA OR APPROVED EQUAL SHALL BE APPLIED AS A CURING COMPOUND. APPLICATION SHALL CONFORM TO THE MANUFACTURERS RECOMMENDATIONS.

WASTEWATER CLEAN-OUT COLLAR DETAIL

N.T.S.

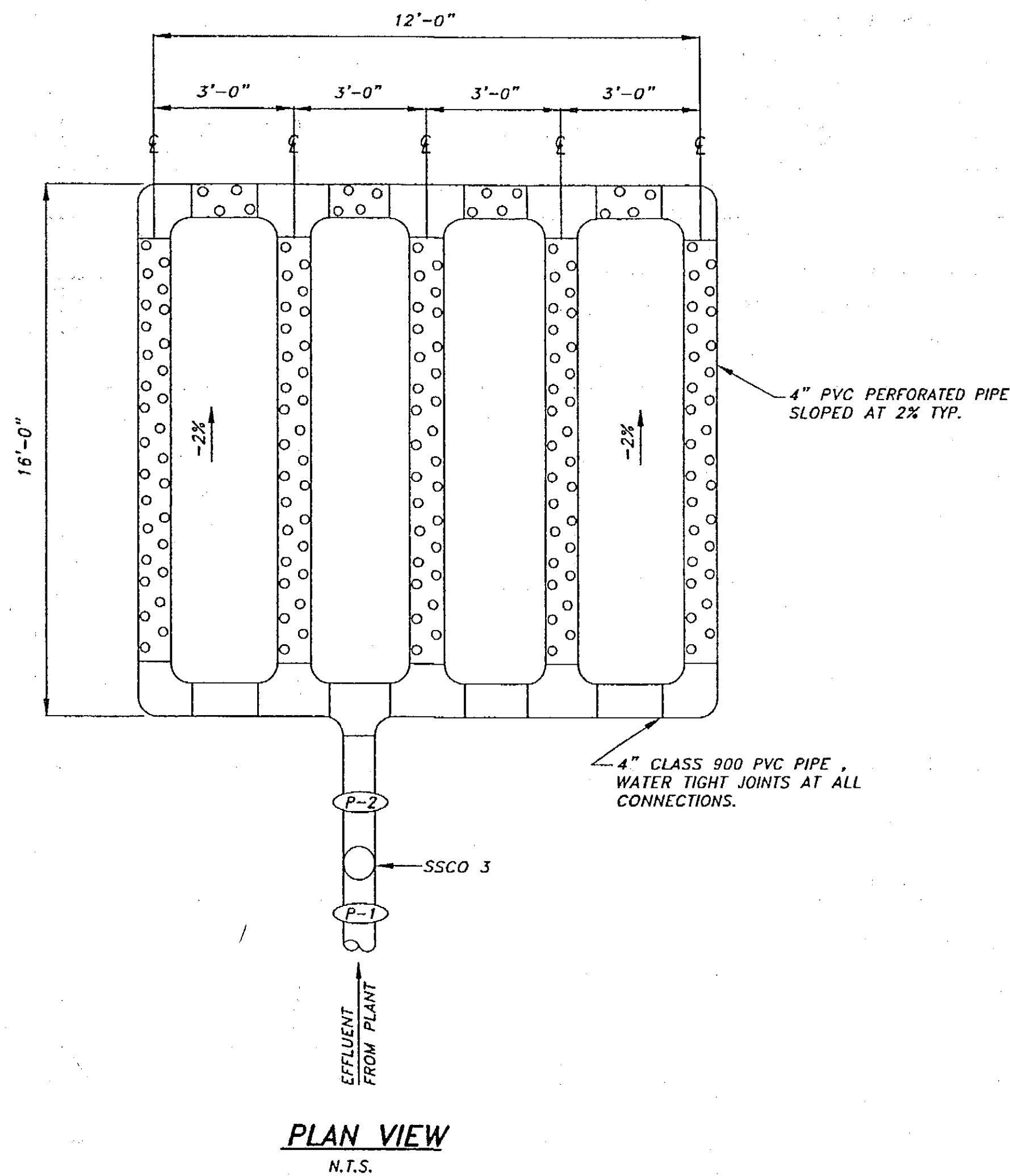


NOTES

1. CLEANOUT PIPE SHALL BE SAME TYPE AS THE SEWER MAIN.
2. GRADE AND HEIGHT OF CLEANOUT COVER TO MATCH FINISHED GRADE.
3. CAST IRON FRAME AND COVER SHALL BE INLAND FOUNDRY NO. 247 OR OTHER APPROVED GASKETED AND LOCKING WATERTIGHT COVER AND FRAME.

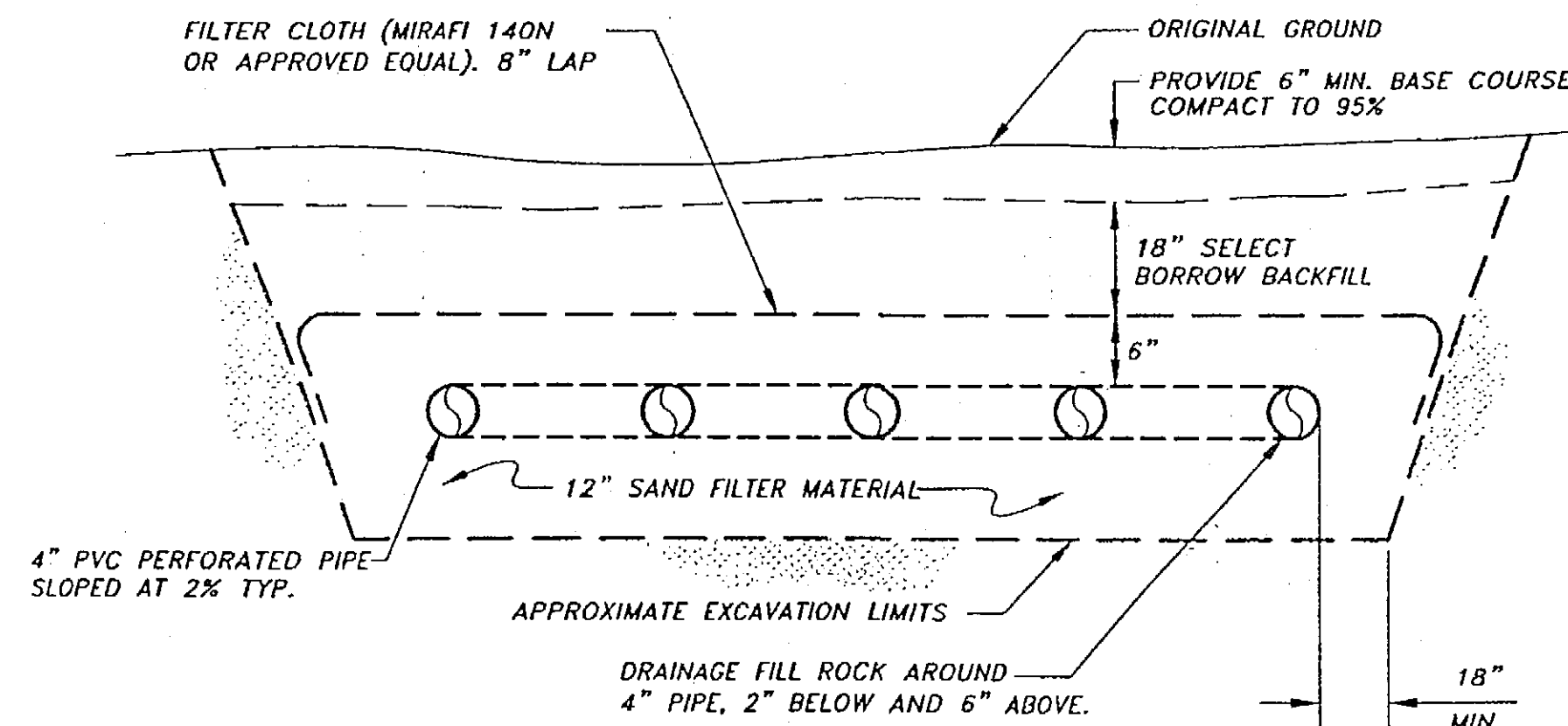
WASTEWATER CLEAN-OUT DETAILS

N.T.S.



PLAN VIEW

N.T.S.



SECTION

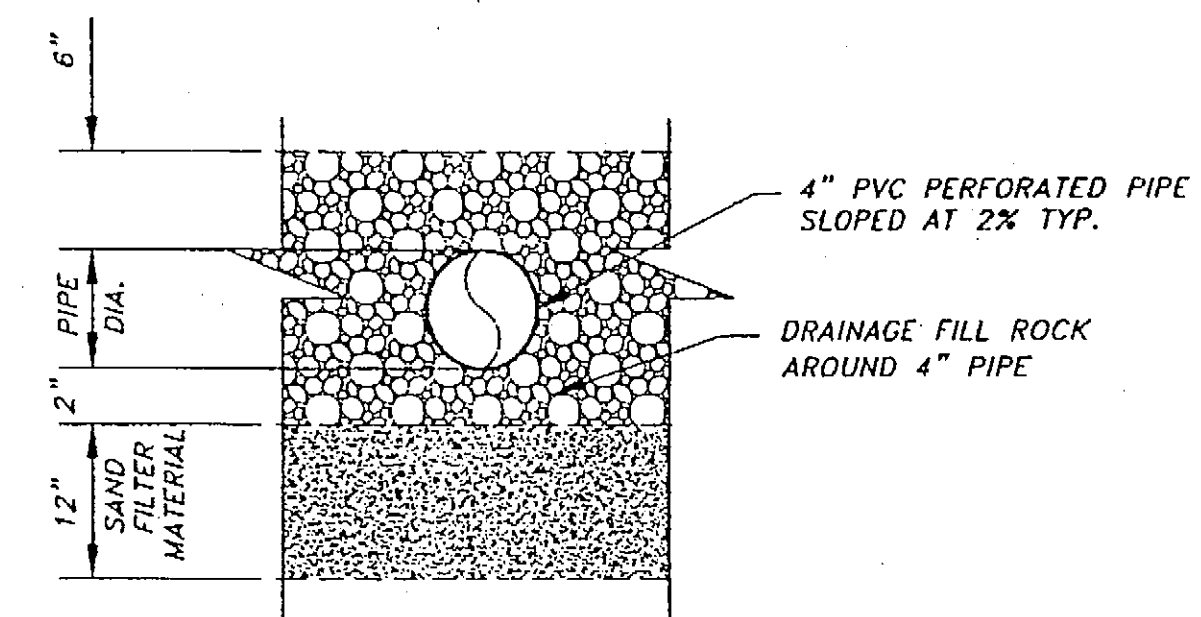
N.T.S.

WASTEWATER DRAINFIELD DETAILS

N.T.S.

WASTEWATER NOTES

- 1) THE JET-AIR TREATMENT PLANT OR A.D.E.C. APPROVED EQUAL SECONDARY TREATMENT SYSTEM SHALL BE INSTALLED AND MAINTAINED PER THE MANUFACTURE'S RECOMMENDATIONS. AT A MINIMUM THE TANK SHOULD BE PUMPED EVERY 12 MONTHS.
- 2) DRAINAGE FILL ROCK MATERIAL SHALL BE USED AROUND THE PVC PERFORATED PIPE.
- 3) PIPE LENGTHS AND SLOPES GIVEN ARE SUBJECT TO FIELD REVISIONS BASED ON ACTUAL FIELD CONDITIONS.
- 4) ALL NEW PVC SANITARY SEWER PIPE SHALL HAVE WATER TIGHT JOINTS. CLEAN OUTS SHALL INCORPORATE 45° WYE FITTINGS AND THE CLEAN OUT CAPS INSTALLED FLUSH WITH FINISH GRADE.
- 5) PROPERTY CORNERS AND PROPERTY LINES SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION OF THE DRAIN FIELD AND JET-AIR PLANT.
- 6) THE PROPOSED ADOT&PF HOONAH SNOW REMOVAL EQUIPMENT BUILDING WILL BE CONNECTED TO THE CITY OF HOONAH PUBLIC WATER SYSTEM.
- 7) THE DRAIN FIELD SYSTEM SHALL BE TESTED WITH DYE PRIOR TO BACKFILLING. A 24 HOUR TIME PERIOD SHALL BE CHECKED WITH DYE WATER CONTINUALLY DISPOSED THROUGH THE SYSTEM. A.D.E.C. SHALL BE NOTIFIED PRIOR TO THIS WORK TAKING PLACE SO THEY CAN MAKE INSPECTION IF THEY SO DESIRE.
- 8) CONTOUR MAPPING AND EXISTING CONDITIONS SHOWN WERE PERFORMED BY R&M ENGINEERING IN DECEMBER 2001 AS AUTHORIZED BY DOT/PF.
- 9) DRAINFIELD SIZE SHOWN IS BASED ON SNOW REMOVAL EQUIPMENT BUILDING HAVING ONE UNI-SEX BATHROOM, ONE TOILET, ONE MOP SINK AND WASHER.



DRAINFIELD PIPE DETAIL

N.T.S.

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PATH:	DATE:	DESCRIPTION OF CHANGE:
BY:		

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HOONAH

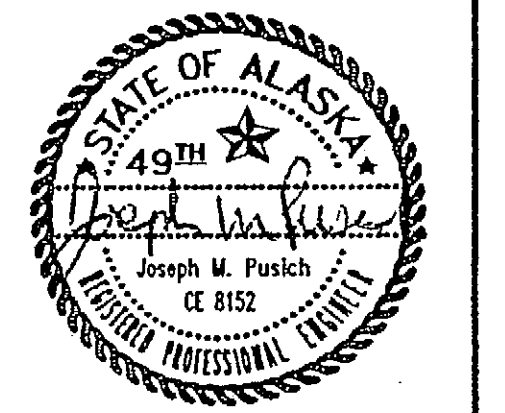
HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING
CONSTRUCTION DETAILS

ALASKA

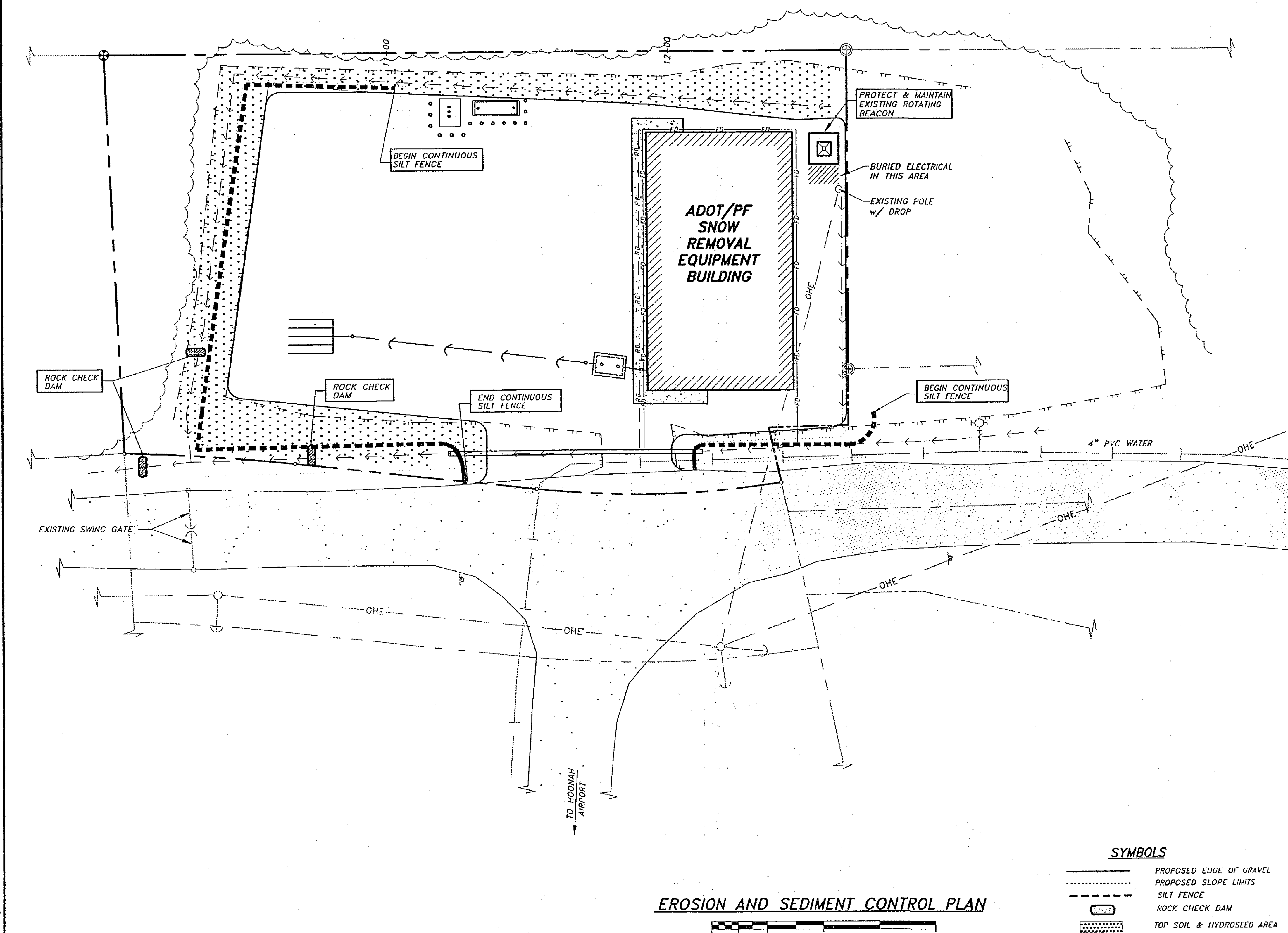
DESIGNED BY:	JMP	PROJECT NO. 68389
DRAWN BY:	KAP	AIP 3-02-0125-0403
CHECKED BY:	JMP	DATE: 11/17/03
		SHEET C6 OF 39

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

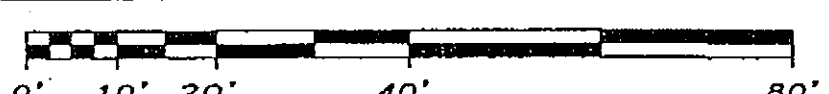
NOTE:
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PLANS - USE DIMENSIONS
ENGINEER'S SEAL



AL2007PROJ\01458\A\1\eng\c7.dwg PLOT November 18, 2003 dt: 11:09am

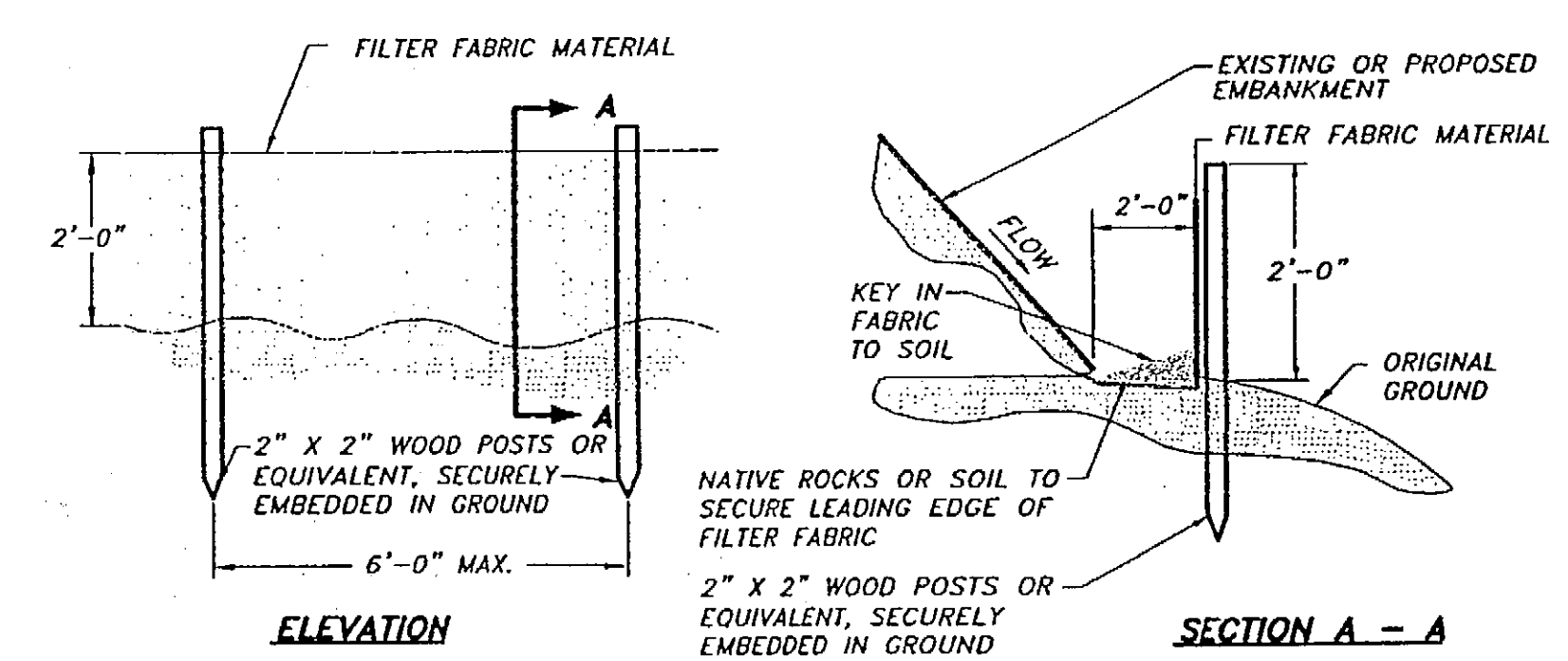


EROSION AND SEDIMENT CONTROL PLAN



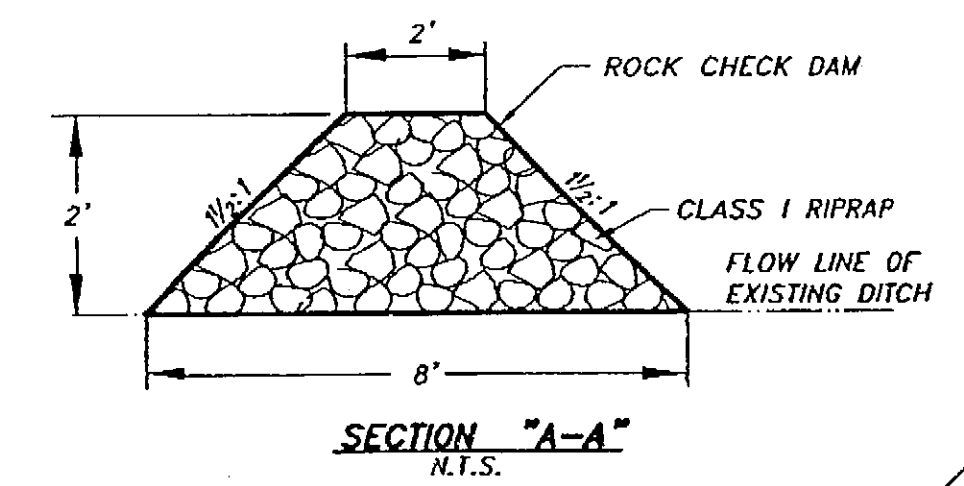
SYMBOLS

- PROPOSED EDGE OF GRAVEL
- PROPOSED SLOPE LIMITS
- SILT FENCE
- ROCK CHECK DAM
- TOP SOIL & HYDROSEED AREA



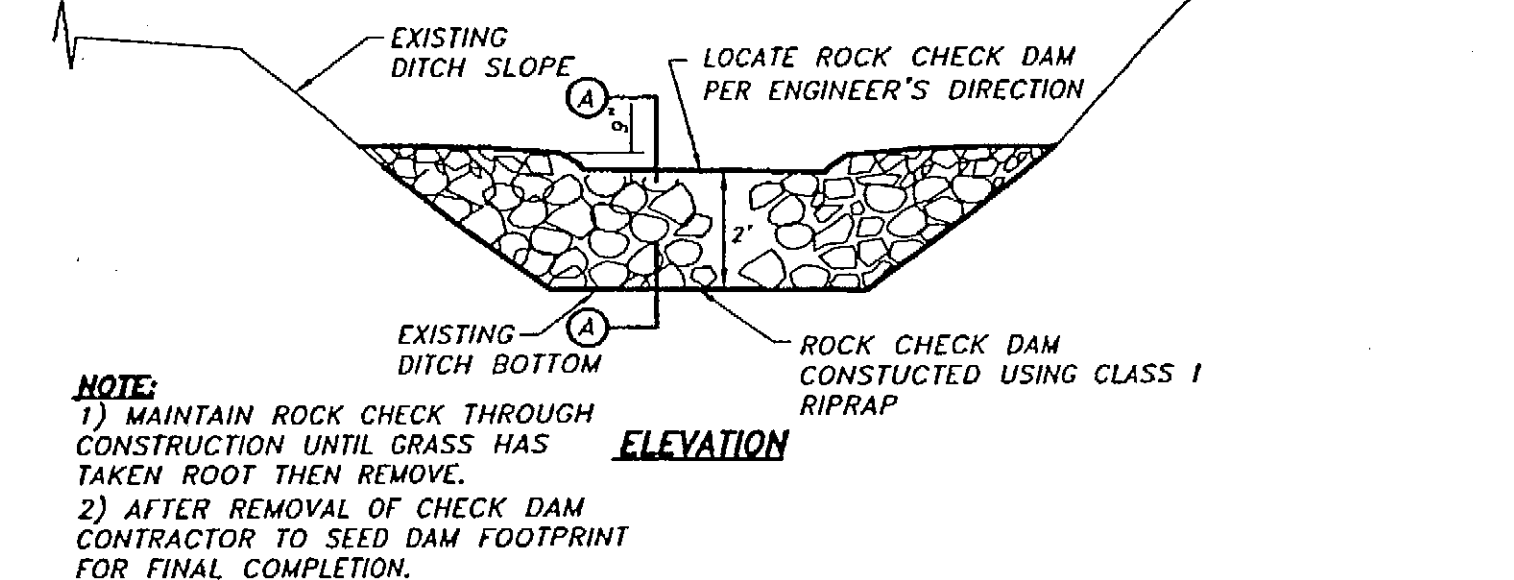
TEMPORARY SILT FENCE DETAIL

N.T.S.



SECTION "A-A"

N.T.S.



NOTE:

- 1) MAINTAIN ROCK CHECK THROUGH CONSTRUCTION UNTIL GRASS HAS TAKEN ROOT THEN REMOVE.
- 2) AFTER REMOVAL OF CHECK DAM CONTRACTOR TO SEED DAM FOOTPRINT FOR FINAL COMPLETION.

ROCK CHECK DAM DETAIL

N.T.S.

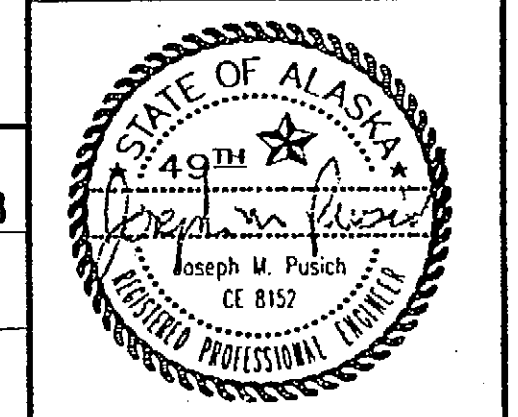
EROSION AND SEDIMENT CONTROL NOTES:

- 1) THE CONTRACTOR IS REQUIRED TO PRESENT A STORM WATER POLLUTION PREVENTION PLAN (SWPP) FIVE DAYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE. THE CONTRACTORS SWPP SHALL INCLUDE, AT THE MINIMUM, PROPOSED LOCATIONS FOR TEMPORARY CHECK DAMS, SILT FENCES, AND ANY OTHER BEST MANAGEMENT PRACTICES THAT ARE APPROPRIATE. A MANUAL ENTITLED "ALASKA STORM WATER POLLUTION PREVENTION PLAN GUIDE" AND DATED OCTOBER 2001 IS AVAILABLE FROM PUBLICATIONS CLERK, ROOM 115, STATEWIDE DESIGN AND ENGINEERING SERVICES, ADOT&PF 3132 CHANNEL DRIVE, JUNEAU, AK, 99801 (907-465-2985) FOR A COST OF \$10 OR IS AVAILABLE ON-LINE AT www.dot.state.ak.us/stwddes/dcs/pubs.html
- 2) ALL EROSION CONTROL/SEDIMENTATION CONTROL BARRIERS SHALL BE IN PLACE PRIOR TO COMMENCING EXCAVATION OR FILLING OPERATIONS.
- 3) TEMPORARY EROSION CONTROL SYSTEM WILL NOT BE REMOVED UNTIL GERMINATION OF SEEDING AND NO EROSION/SEDIMENT PROBLEMS EXIST.
- 4) ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSPECTED AT LEAST ONCE A WEEK OR WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER AND MAINTAINED UNTIL FINAL COMPLETION.
- 5) MAINTENANCE OF EROSION AND SEDIMENT CONTROL DEVICES SHALL INCLUDE CLEANING OF COLLECTED SEDIMENT OR REPLACEMENT TO MAINTAIN EFFECTIVENESS. ACCUMULATION OF SEDIMENT SHALL NOT EXCEED 9 INCHES
- 6) DEWATERING OF WORK AREAS BY PUMPING SHALL BE IMPLEMENTED WHEREVER POSSIBLE TO REDUCE THE PROJECTS WATER QUALITY IMPACTS. THE PUMP DISCHARGE NEEDS TO BE FILTERED THROUGH SEDIMENT CONTROL DEVICES SUCH AS "DIRT BAG" OR SEDIMENT CONTROL STRUCTURES BEFORE IT CAN ENTER FISH HABITAT DOWNGRADIENT. THE PUMP DISCHARGE SHOULD BE DIRECTED TO THE UPPER SEDIMENT CONTROL BARRIER TO MAXIMIZE RETENTION OF SEDIMENT.
- 7) CONTRACTOR SHALL KEEP CLEAN AND DISPOSE OF ALL EARTHEN MATERIAL TRACKED ON EXISTING ASPHALT ACCESS ROAD TO HOONAH AIRPORT AND GARTINA HIGHWAY. DAILY FLUSHING OF STREETS WITH WATER AND/OR SWEEPING OF THESE STREETS CLEAN OF TRACKED MATERIAL MAY BE REQUIRED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
- 8) DUST CAUSED BY EXCAVATION, TRUCK HAULING, AND OTHER ASPECTS OF THE OPERATION SHALL BE CONTROLLED BY DAMPENING ROAD SURFACES AND OPERATION AREAS AND SHALL TAKE OTHER MEASURES AS NEEDED TO CONTROL DUST IMPACTS OFF-SITE.

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
DO NOT SCALE FROM THESE
PLANS - USE DIMENSIONS

ENGINEER'S SEAL



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PATH:	DATE:	DESCRIPTION OF CHANGE:
BY:		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

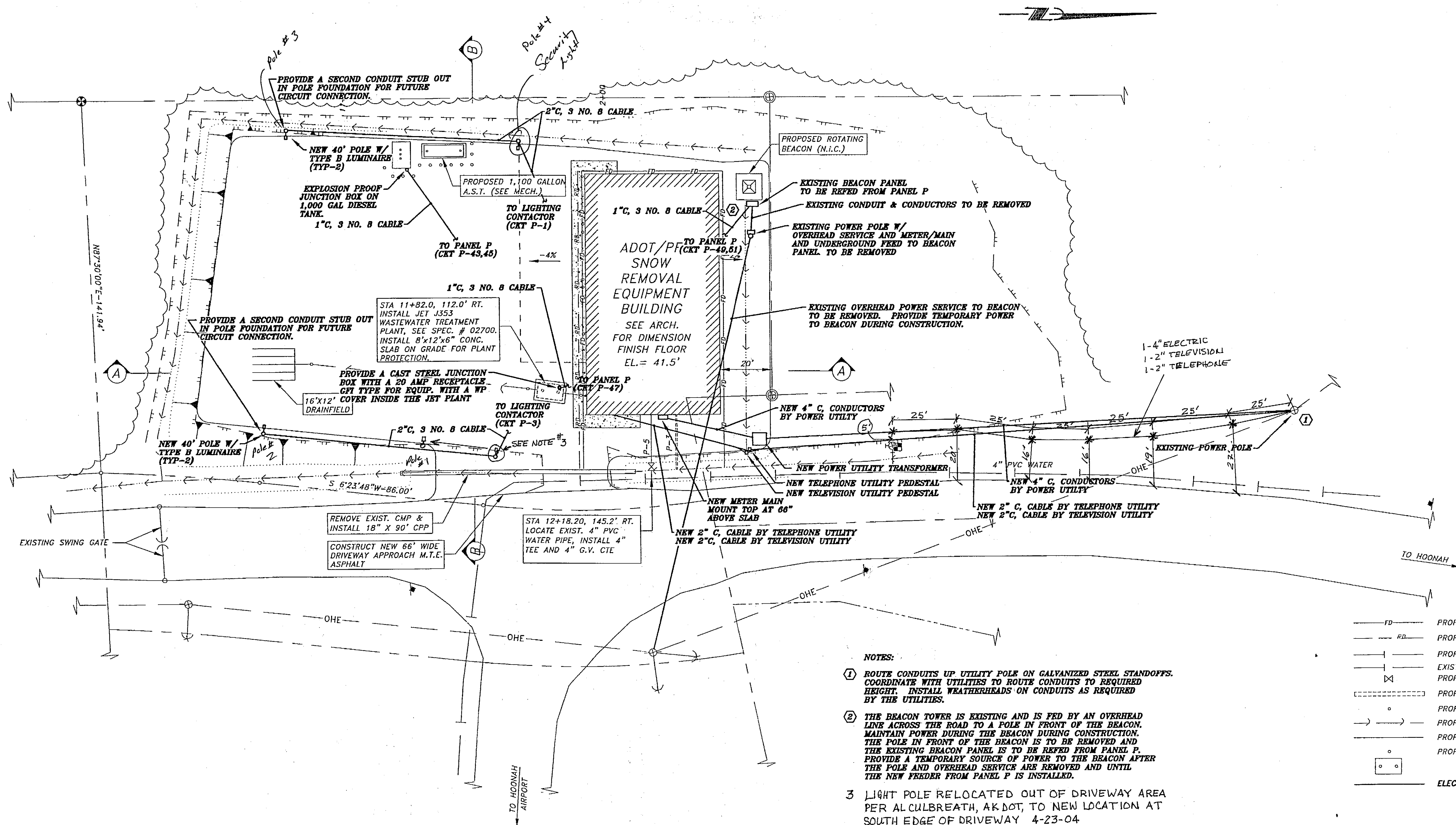
HOONAH
HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING
EROSION CONTROL PLAN

ALASKA

DESIGNED BY: JMP
DRAWN BY: CRC
CHECKED BY: JMP

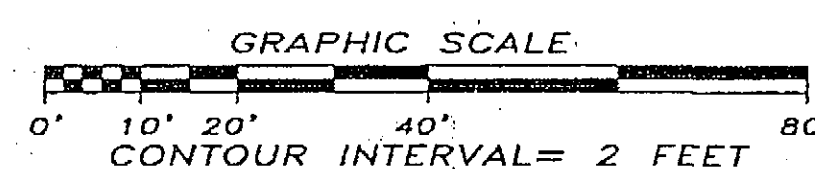
PROJECT NO. 68389
AIP 3-02-0125-0403
DATE: 11/17/03
SHEET C7 OF 39

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- NOTES:
- 1 ROUTE CONDUITS UP UTILITY POLE ON GALVANIZED STEEL STANDOFFS. COORDINATE WITH UTILITIES TO ROUTE CONDUITS TO REQUIRED HEIGHT. INSTALL WEATHERHEADS ON CONDUITS AS REQUIRED BY THE UTILITIES.
 - 2 THE BEACON TOWER IS EXISTING AND IS FED BY AN OVERHEAD LINE ACROSS THE ROAD TO A POLE IN FRONT OF THE BEACON. MAINTAIN POWER DURING THE BEACON DURING CONSTRUCTION. THE POLE IN FRONT OF THE BEACON IS TO BE REMOVED AND THE EXISTING BEACON PANEL IS TO BE REFEED FROM PANEL P. PROVIDE A TEMPORARY SOURCE OF POWER TO THE BEACON AFTER THE POLE AND OVERHEAD SERVICE ARE REMOVED AND UNTIL THE NEW FEEDER FROM PANEL P IS INSTALLED.
 - 3 LIGHT POLE RELOCATED OUT OF DRIVEWAY AREA PER ALCULBREATH, AK DOT, TO NEW LOCATION AT SOUTH EDGE OF DRIVEWAY 4-23-04

SYMBOLS	
	PROPOSED 6" CPP FOUNDATION DRAIN
	PROPOSED 6" CPP ROOF DRAIN
	PROPOSED WATER LINE
	EXISTING WATER LINE
	PROPOSED WATER VALVE
	PROPOSED STORM DRAIN PIPE
	PROPOSED BOLLARD LOCATION
	PROPOSED 4" PVC SEWER PIPE
	PROPOSED GRADING LIMITS
	PROPOSED SANITARY SEWER CLEANOUT
	ELECTRICAL CONDUIT



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PATH:	DATE:	DESCRIPTION OF CHANGE:
BY:		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
ALASKA MARINE HIGHWAY

HOONAH

HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING
ELECTRICAL SITE PLAN

ALASKA

DESIGNED BY:

MGM

DRAWN BY:

NKG

CHECKED BY:

MGM

PROJECT NO. 68389

AIP: 03-02-0125-0403

DATE:

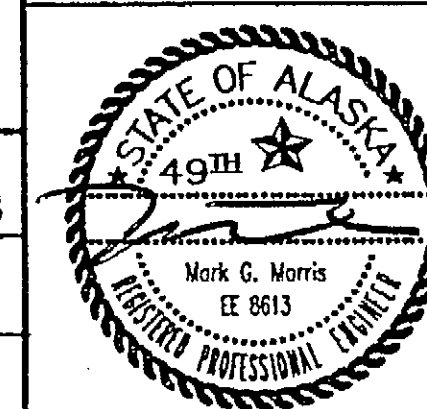
NOVEMBER 17, 2003

SHEET E001 OF 39

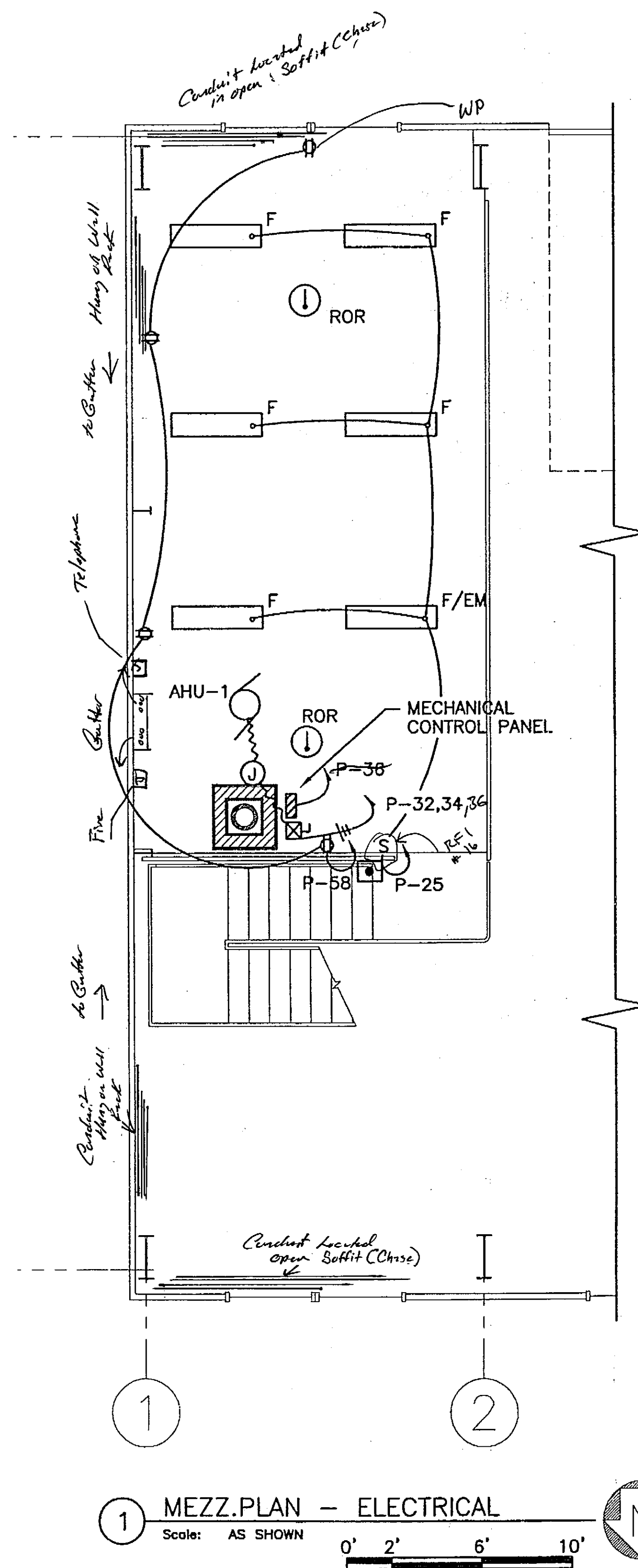
PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

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PLANS - USE DIMENSIONS

ENGINEER'S SEAL



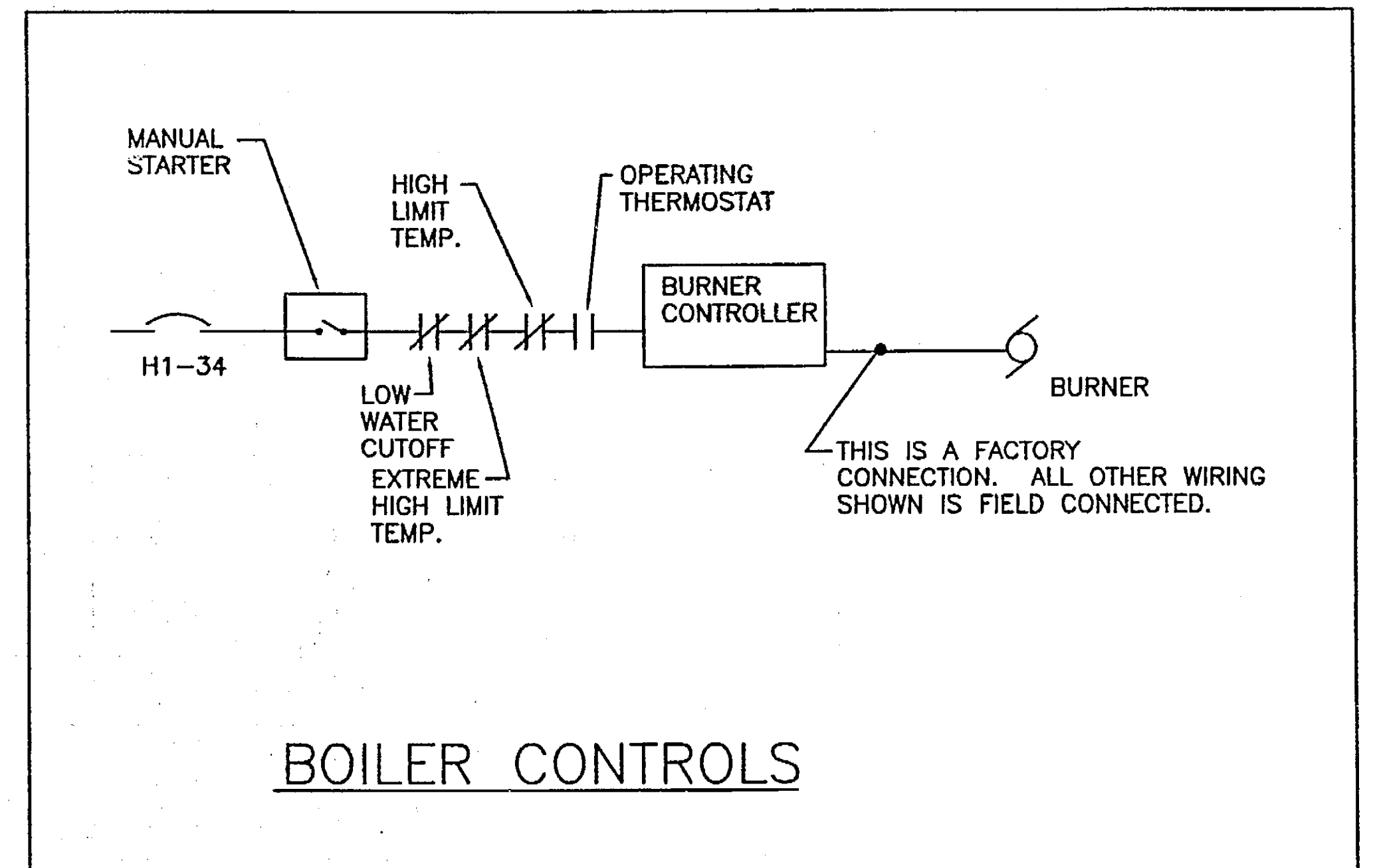
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LEGEND:

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	DUPLEX RECEPTACLE	20" AFF TO TOP
	DOUBLE DUPLEX RECEPTACLE	20" AFF TO TOP
GFI	GROUND FAULT INTERRUPTER	
AFF	ABOVE FINISHED FLOOR	
AFG	ABOVE FINISHED GROUND	
	SPECIAL RECEPTACLE	
	CEILING LUMINAIRE	
	WALL MOUNT LUMINAIRE	
	FLUORESCENT LUMINAIRE LETTER INDICATES FIXTURE TYPE "EM" INDICATES EMERGENCY BALLAST WITH 90 MIN. OF LIGHT AT 100% OF ONE LAMP OUTPUT	
	TELECOMMUNICATIONS RECEPTACLE	20" AFF TO TOP
WP	WEATHERPROOF	
FACP	FIRE ALARM CONTROL PANEL	
	TELEVISION RECEPTACLE	
	MOTOR CONNECTION	
	JUNCTION BOX	
S	SINGLE POLE SWITCH	48" TO TOP
S ₃	THREE WAY SWITCH	48" TO TOP
S _M	MANUAL STARTER	48" TO TOP
S _C	SPEED CONTROL SWITCH	
	MAGNETIC NEMA STARTER	
	COMBINATION NEMA MAGNETIC STARTER	
X	STROBE ONLY	
	PULL STATION	48" TO TOP
	HORN STROBE	80" TO BOTTOM
	WEATHER PROOF HORN	80" TO BOTTOM
	HEAT DETECTOR RATE OF RISE	
	SMOKE DETECTOR	
	HEAT DETECTOR (TEMP NOTED)	
	FLEXIBLE CONDUIT	
	CONDUIT WITH CONDUCTORS, SLASHES INDICATE NUMBER IF NOT TWO. EQUIP. GROUNDING CONDUCTOR NOT SHOWN.	

MECHANICAL EQUIPMENT SCHEDULE							
EQUIPMENT	LOCATION	HP	VOLTS/PH	STARTER TYPE/ SIZE	STARTER SWITCH	STARTER LOCATION	DISCONNECT
BOILER	BOILER RM	1/3	120/1	MANUAL/1 HP	ON-OFF	MOUNTING BOARD	WITH STARTER
P-1	BOILER RM	1/8	120/1	MAGNETIC/NEMA#	HOA	MOUNTING BOARD	NONE
P-2	BOILER RM	1/8	120/1	MAGNETIC/NEMA#	HOA	MOUNTING BOARD	NONE
P-3	BOILER RM	1/2	120/1	MAGNETIC/NEMA#	HOA	MOUNTING BOARD	NONE
P-4	BOILER RM	1/8	120/1	MANUAL	ON-OFF	MOUNTING BOARD	WITH STARTER
AHU	MEZZANINE	3	240/1	MAGNETIC/NEMA 1	HOA	SHAFT WALL	WITH STARTER
EF-1	GARAGE	1/8	120/1	MANUAL/1 HP	ON-OFF	GARAGE	WITH STARTER
EF-2	BATHROOM	1/25	120/1	15A SWITCH	ON-OFF	BATHROOM	SWITCH
PWEF	GARAGE	1/2	120/1	20A REC	----	GARAGE	----
(3) OH DOORS	GARAGE	1	120/1	MANUAL/1 HP	ON-OFF	GARAGE	WITH STARTER



PATH:		
BY:	DATE:	DESCRIPTION OF CHANGE:
RECORD OF REVISIONS		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

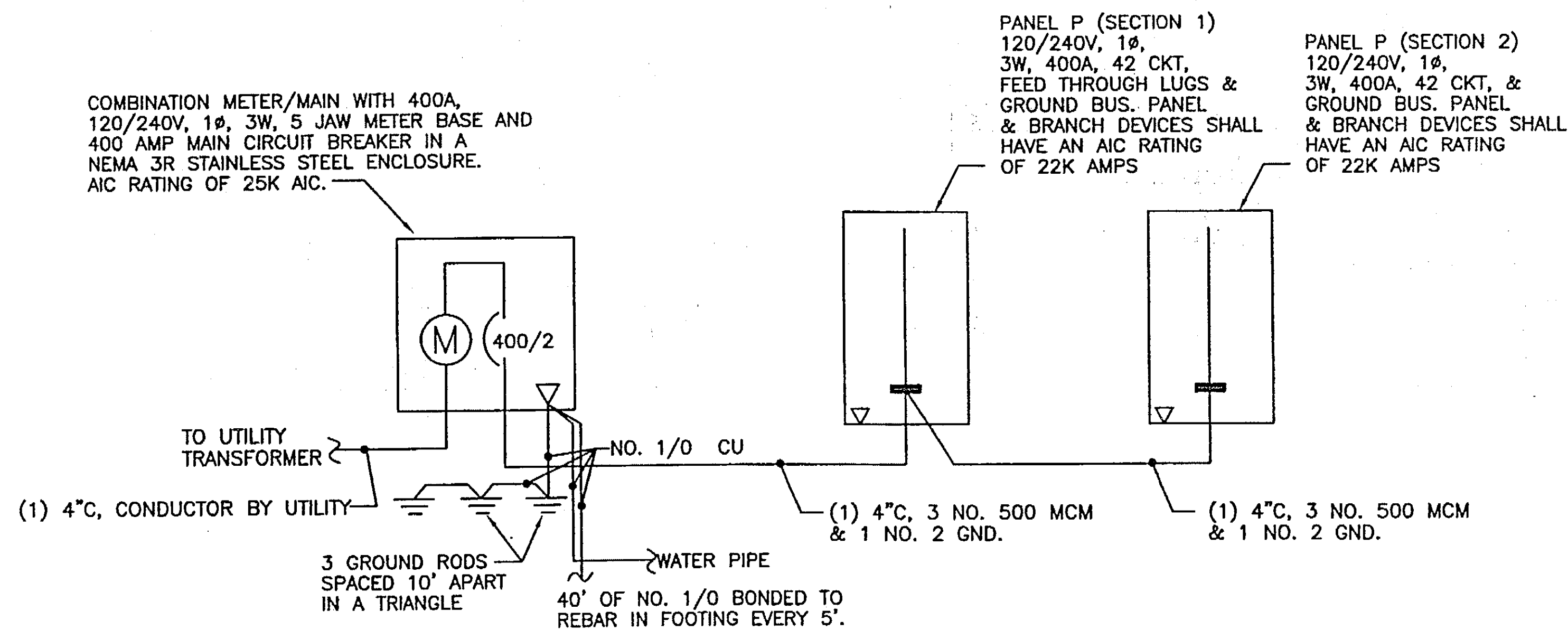
HOONAH
HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING
MEZZANINE ELECTRICAL, MECH EQUIP SCHEDULE, LEGEND

DESIGNED BY:	MGM	PROJECT NO. 68389 AIP: 03-02-0125-0403
DRAWN BY:	NKG	DATE: NOVEMBER 17, 2003
CHECKED BY:	MGM	SHEET E102 OF 39

PLANS DEVELOPED BY:
IHH Electrical

NOTE:
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PLANS - USE DIMENSIONS

ENGINEER'S SEAL



SINGLE LINE DIAGRAM

PANEL P (SECTION 1)		SIZE	VOLTS, PHASE				MOUNTING	MAIN	LOCATION
		400A	120/208V, 1Ø, 3W				SURFACE	FEED THRU	MECHANICAL
CKT NO.	DESCRIPTION	C/B SIZE	CKT	A#	B#	CKT	C/B SIZE	DESCRIPTION	CKT NO.
1	YARD, WEST SIDE LIGHTING	20/1	1.0	1.5	0.5	20/1		OVERHEAD DOOR, EAST BAY	2
3	YARD, EAST SIDE LIGHTING		1.0		1.5	0.5		OVERHEAD DOOR, CENTER BAY	4
5	SPARE		0.0	0.5	0.5			OVERHEAD DOOR, WEST BAY	6
7	GARAGE, BENCH BAY LIGHTING		0.8		0.8	0.0		SPARE	8
9	GARAGE, EAST BAY LIGHTING		1.6	5.6		4.0	50/2	WELDER	10
11	GARAGE, CENTER BAY LIGHTING		1.6		5.6	4.0	---	---	12
13	GARAGE, WEST BAY LIGHTING		1.6	5.6		4.0	50/2	WELDER	14
15	GARAGE, WEST BAY LIGHTING		1.6		5.6	4.0	---	---	16
17	SECURITY LIGHTING BUILDING PERIMETER		0.4	0.5		0.1	20/1	BOILER	18
19	PERIMETER LIGHTING ON TIME CLOCK		0.9		1.4	0.5		PUMP P-1	20
21	Emergency Lighting Main Doors		1.6	2.1		0.5		PUMP P-2	22
23	EMERGENCY LIGHTING, North Wall		0.2		0.7	0.5		PUMP P-3	24
25	MEZZANINE LIGHTING		0.7	0.9		0.2		PUMP P-4	26
27	BENCH LIGHTING		0.5		0.7	0.0		SPARE	28
29	SPARE		0.0	0.1		0.1		RADIANT CONTROL PANEL	30
31	SPARE		0.0		1.5	1.5	25/2	AHU	32
33	SPARE		0.0	1.5		1.5	---	---	34
35	SPARE		0.0		0.1	0.1	20/1	AHU CONTROLS	36
37	SPARE		0.0	0.1		0.1	20/1	SPARE	38
39	PORTABLE WELDER	30/2	1.5		3.0	1.5	30/2	SPARE RECEPTACLE	40
41	EXHAUST FAN (PWEF)	---	1.5	3.0		1.5	---	---	42
TOTAL CONNECTED LOAD = 42 KVA/ 173 AMPS			21.3		20.9				

PANEL P (SECTION 2)		SIZE	VOLTS, PHASE				MOUNTING	MAIN	LOCATION
		400A	120/208V, 1Ø, 3W				SURFACE	LUGS ONLY	BOILER
CKT NO.	DESCRIPTION	C/B SIZE	CKT	A#	B#	CKT	C/B SIZE	DESCRIPTION	CKT NO.
43	DIESEL DISPENSING TANK	20/2	0.5	0.7		0.2	20/1	OFFICE, NORTH WALL	44
45	---	---	0.5		1.1	0.6		OFFICE, EAST WALL	46
47	JET PLANT	20/1	0.7	1.3		0.6		OFFICE, SOUTH WALL	48
49	BEACON	30/2	0.6		0.8	0.2		OFFICE, WEST WALL	50
51	---	---	0.6	0.8		0.2		TELEPHONE	52
53	Office, Haul, Lighting				0.8	0.8		North Wall Bay #1	54
55	Oil Separator			0.4		0.4		SPARE	56
57	SPARE				0.8	0.8		MEZZANINE	58
59	---			0.2		0.2		GARAGE NORTH WALL CENTER	60
61	EF-1				0.0	0.0		SPARE	62
63	Bath, Boilerroom, Lighting			0.2		0.2		GARAGE WEST WALL	64
65	---				0.0	0.0		Shop East Wall	66
67	---			0.2		0.2		GARAGE WEST WALL	68
69	---				0.0	0.0		Shop North Wall	70
71	---			0.2		0.2		GARAGE WEST WALL	72
73	---				0.0	0.0		Shop North Wall	74
75	---			0.6		0.6		GARAGE SOUTH WALL	76
77	---				0.2	0.2		BATHROOM, Boiler	78
79	SHOP COMPRESSOR	30/2	1.0	1.6		0.6		WASHER	80
81	---	---	1.0		4.0	3.0	30/2	DRYER	82
83	FIRE ALARM	20/1	0.1	3.1		3.0	---	---	84
TOTAL CONNECTED LOAD = 17KVA/ 71 AMPS			9.3		7.7				

RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
ALASKA MARINE HIGHWAY

HOONAH

HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING
PANEL SCHEDULES, SINGLE LINE DIAGRAM

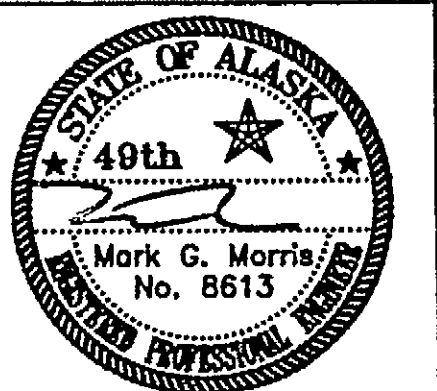
ALASKA

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DRAWN BY: NKG
CHECKED BY: MGM

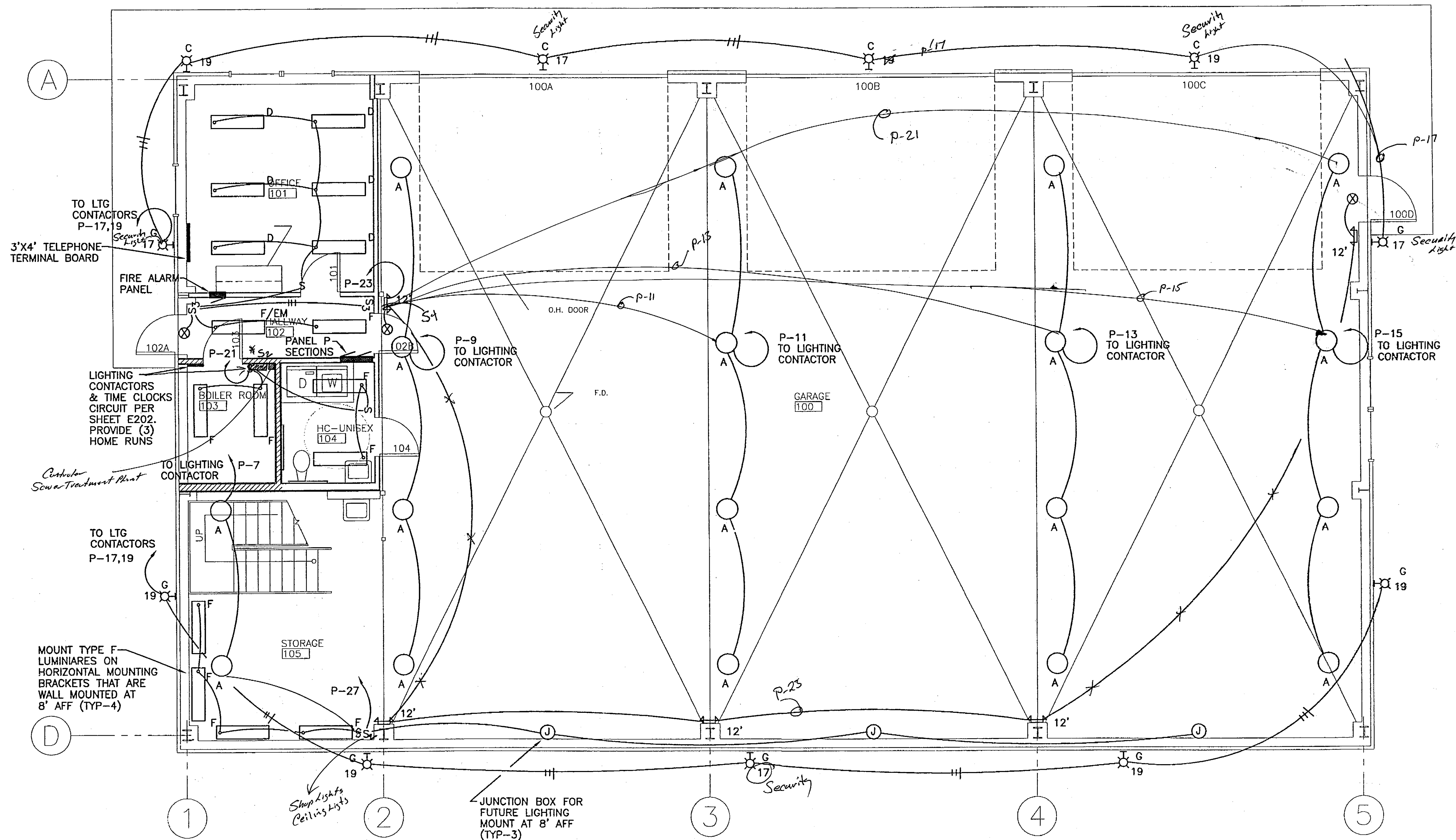
PROJECT NO. 68389
AIP: 03-02-0125-0403
DATE: NOVEMBER 17, 2003
SHEET E103 OF 39

PLANS DEVELOPED BY:
IHH Electrical

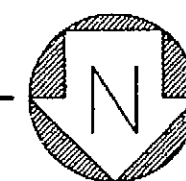
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PLANS - USE DIMENSIONS
ENGINEER'S SEAL



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1 FIRST FLOOR PLAN - LIGHTING
Scale: AS SHOWN



PATH:		
BY:	DATE:	DESCRIPTION OF CHANGE:
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HOONAH

HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING
LIGHTING PLAN

ALASKA

DESIGNED BY: MGM
DRAWN BY: NKG
CHECKED BY: MGM

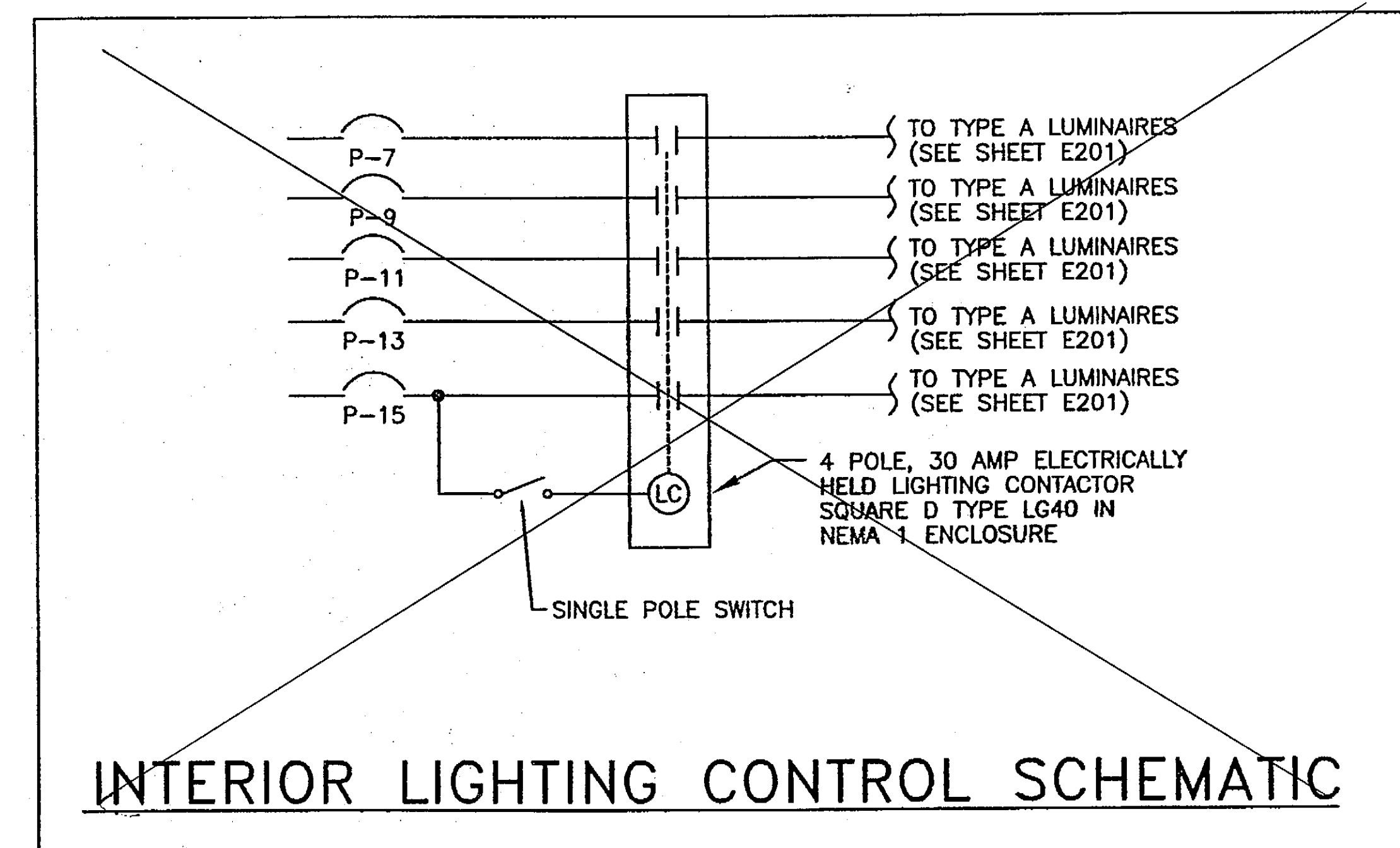
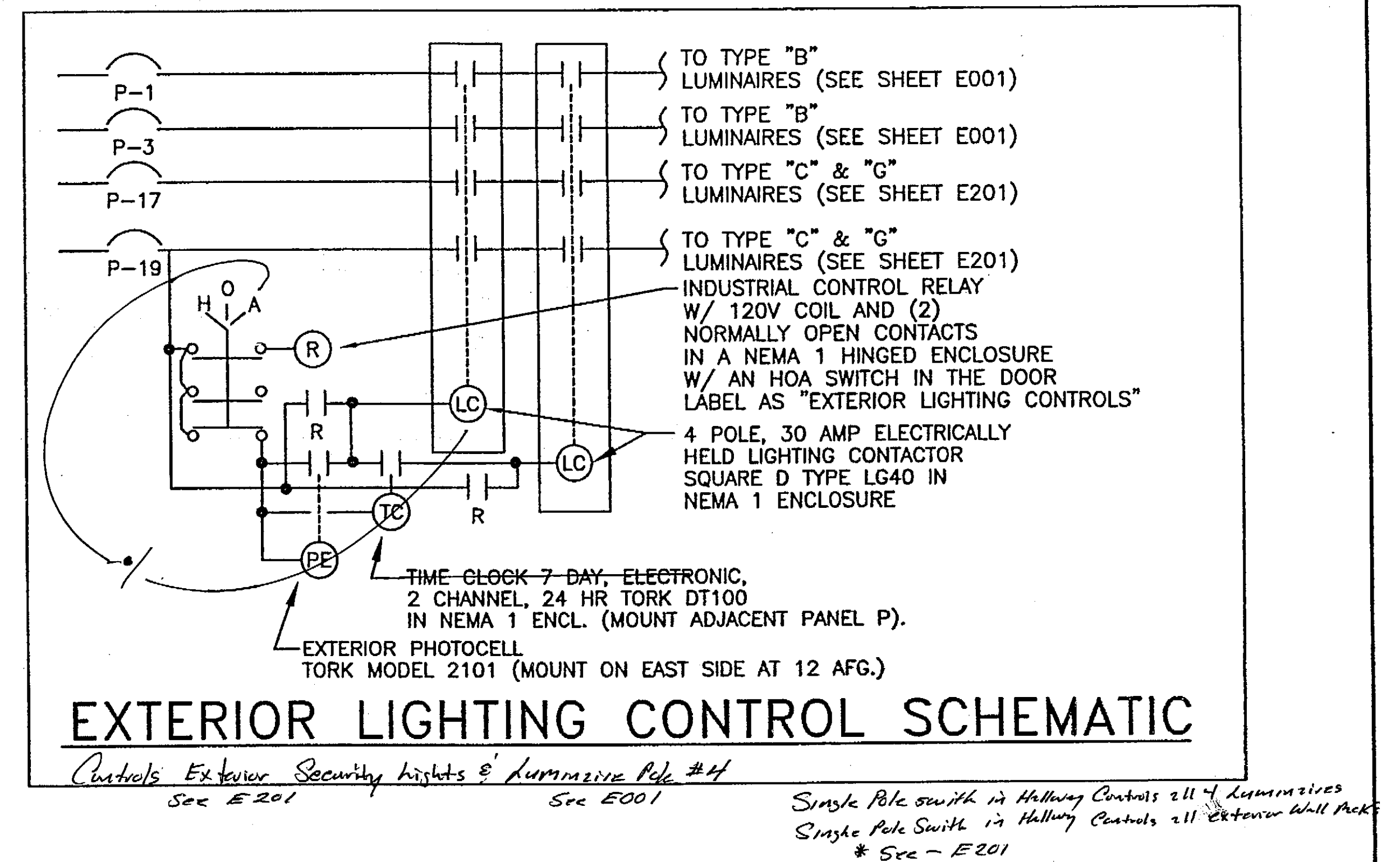
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AIP: 03-02-0125-0403
DATE:
NOVEMBER 17, 2003
SHEET E201 OF 39

PLANS DEVELOPED BY:
IHH Electrical

NOTE:
DO NOT SCALE FROM THESE
PLANS - USE DIMENSIONS
ENGINEER'S SEAL



LUMINAIRE SCHEDULE				
TYPE	DESCRIPTION	MANUFACTURER	LAMPS	REMARKS
A	ACRYLIC LOWBAY WITH REFRACTED BOTTOM LENS WITH PULSE START METAL HALIDE LAMP	LITHONIA TXR320MPA22CTBSCWA	320 W MH COATED	MOUNT WITH HOOK, CORD, & PLUG. PROVIDE SPARE LAMP FOR EACH LUMINAIRE. PROVIDE RECEPTACLE AT EACH LUMINAIRE.
B	DIE-CAST ALUMINIUM ARCHITECTURAL AREA LIGHT WITH FORWARD THROW OPTICS	LITHONIA KAD200MR4TBWB004SCWA	200W MH PULSE ST.	PROVIDE WITH POLE MOUNT BRACKET AND PULSE START LAMP. PROVIDE A SPARE LAMP.
C	WALLPACK WITH CUTOFF OPTICS. DIECAST ALUMINIUM HOUSING	LITHONIA TWA100M120	(1) 100W MH COATED	MOUNT AT 16' AFG. PROVIDE 20 GA. STEEL BACKING PLATE PAINT TO MATCH. MOUNT TO BUILDING
D	SURFACE WRAPAROUND WITH HOLOPHANE CONTROL LENS	LITHONIA CLM332IM120GEB	(3) F32 T8 3500K	PROVIDE WITH ELECTRONIC BALLAST
F	SURFACE WRAP AROUND	LITHONIA LB232120GEB	(2) F32 T8 3500K	PROVIDE WITH ELECTRONIC BALLAST
	SELF CONTAINED EMERGENCY LIGHTING UNIT	LITHONIA	(2) HALOGEN	WALL MOUNT AT 8' AFF
	WALLMOUNT EMERGENCY EXIT SIGN WITH GREEN DIFFUSE LED LETTERING	LITHONIA LES1G120ELN	LED GREEN	BACK MOUNT ABOVE DOOR
G	WALLPACK WITH CUTOFF OPTICS. DIECAST ALUMINIUM HOUSING	LITHONIA TWA50M120	(1) 50W MH COATED	MOUNT AT 16' AFG. PROVIDE 20 GA. STEEL BACKING PLATE PAINT TO MATCH. MOUNT TO BUILDING



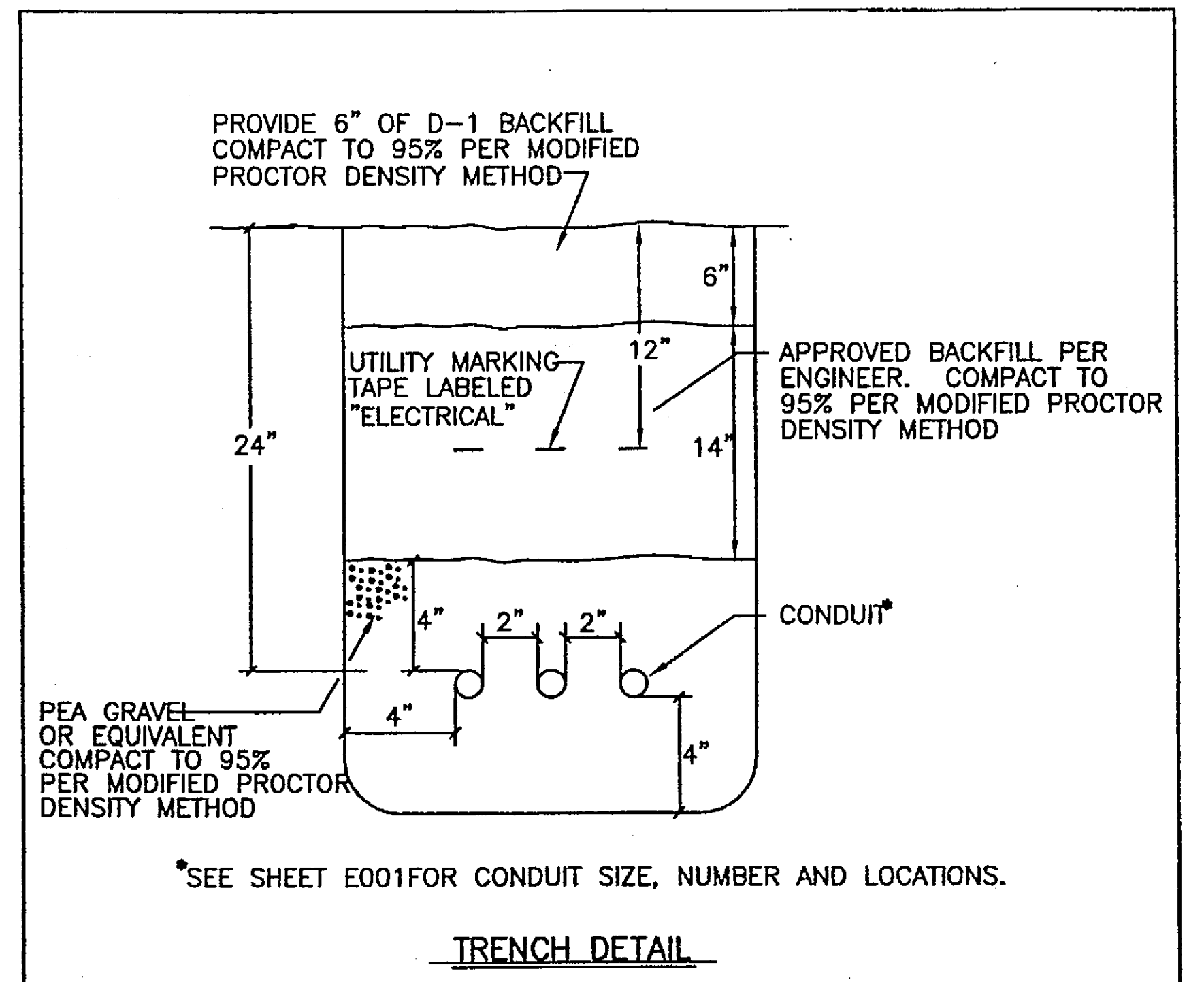
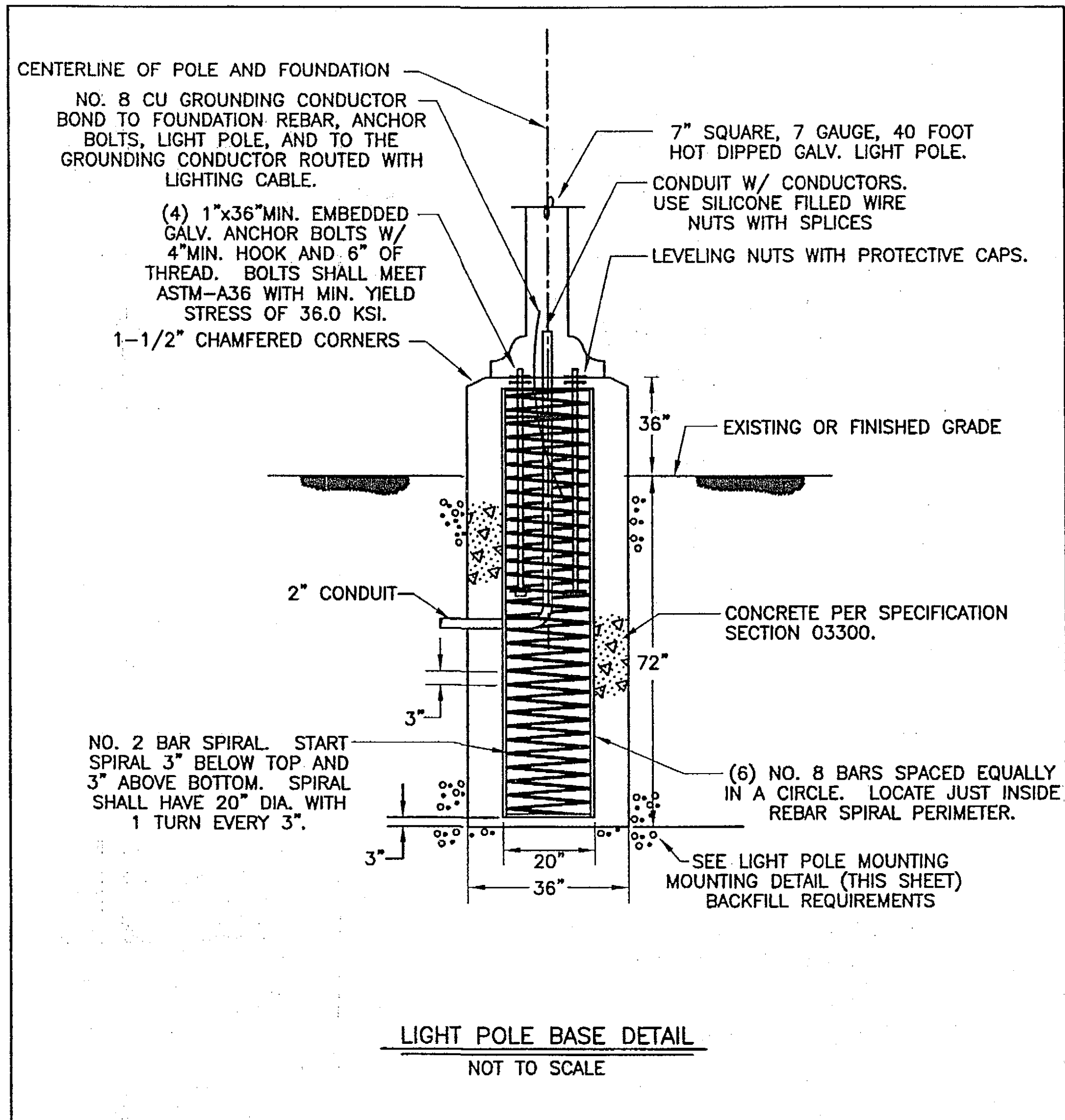
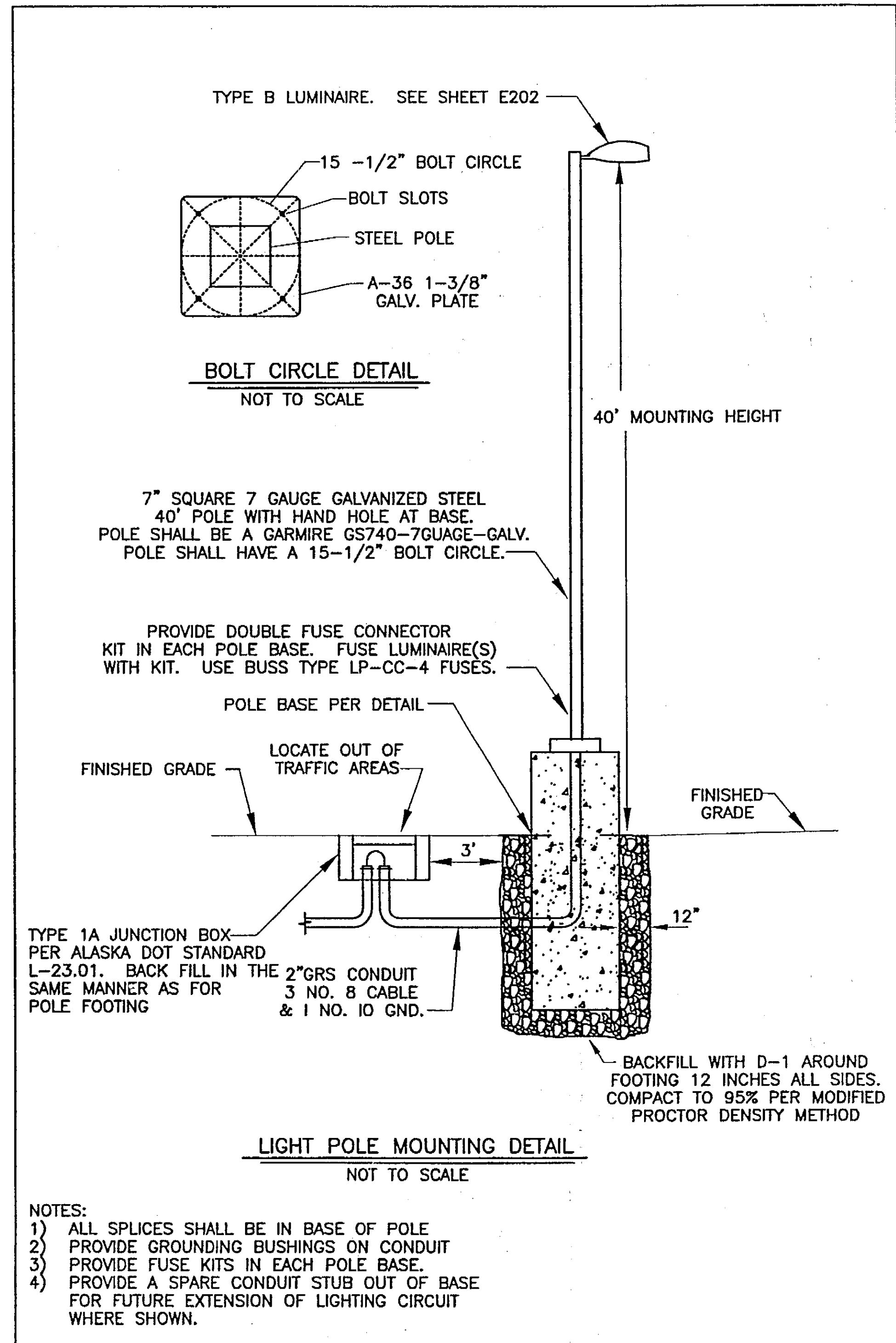
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HOONAH

ALASKA

PROJECT NO. 68389 AP: 03-02-0125-0403	DATE: NOVEMBER 17, 2003
SHEET E202 OF 39	

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STATE OF ALASKA
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AND PUBLIC FACILITIES

HOONAH

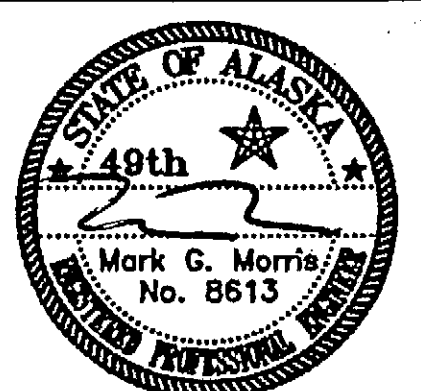
HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING
LIGHT POLE DETAILS, TRENCH DETAIL

ALASKA

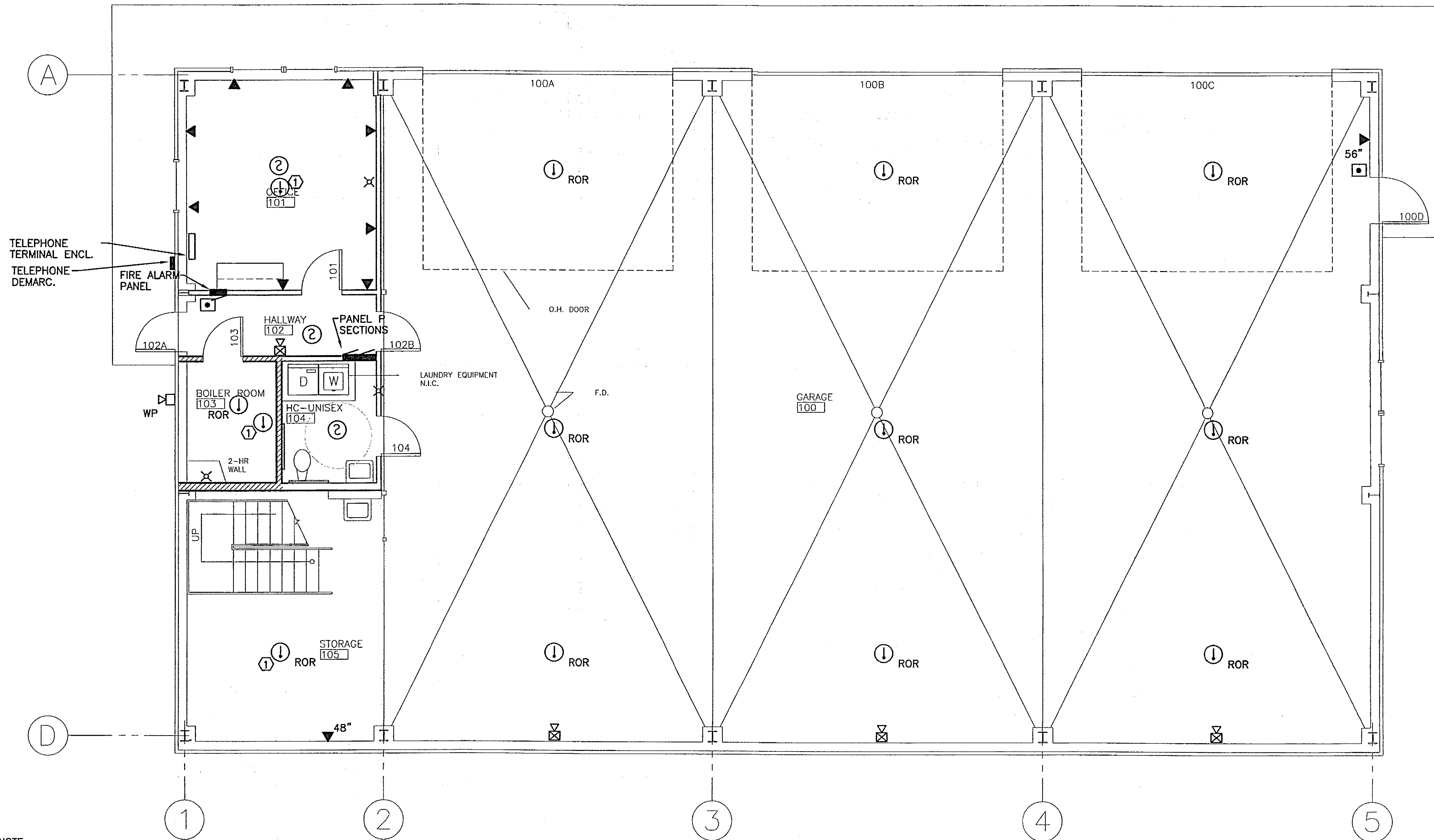
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DRAWN BY:	NKG	AIP: 03-02-0125-0403
CHECKED BY:	MGM	DATE: NOVEMBER 17, 2003
		SHEET E203 OF 39

PLANS DEVELOPED BY:
IHH Electrical

NOTE:
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PLANS - USE DIMENSIONS
ENGINEER'S SEAL



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NOTE:
① HEAT DETECTOR MOUNTED TO CEILING OF MEZZANINE

① FIRST FLOOR PLAN - SIGNAL
Scale: AS SHOWN 0' 2' 6' 10'

RECORD OF REVISIONS		
DATE	BY	DESCRIPTION OF CHANGE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
ALASKA MARINE HIGHWAY

HOONAH

HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING
SIGNAL PLAN

ALASKA

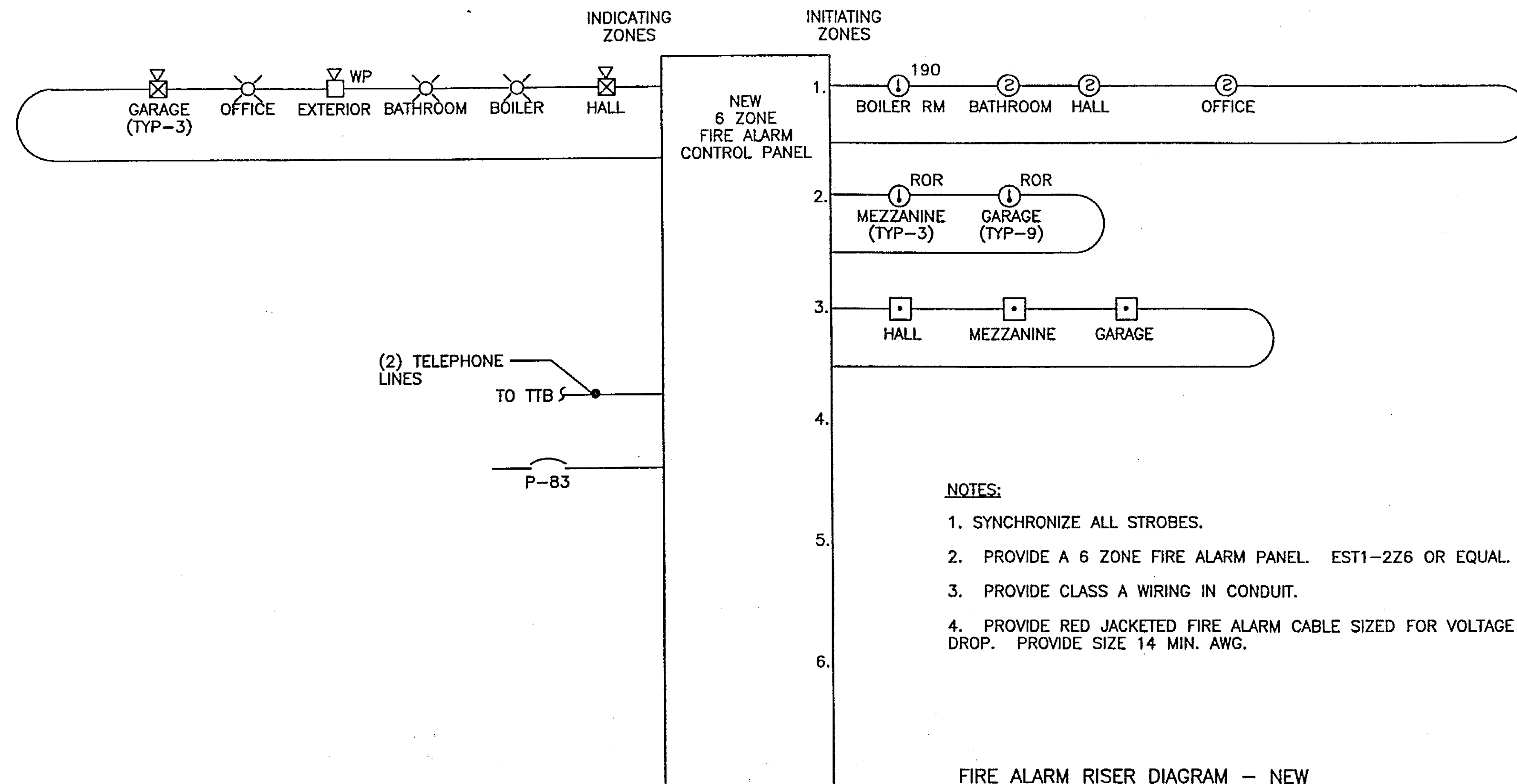
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DRAWN BY: NKG	AIP: 03-02-0125-0403
CHECKED BY: MGM	DATE: NOVEMBER 17, 2003
	SHEET E301 OF 39

PLANS DEVELOPED BY:
IHH Electrical

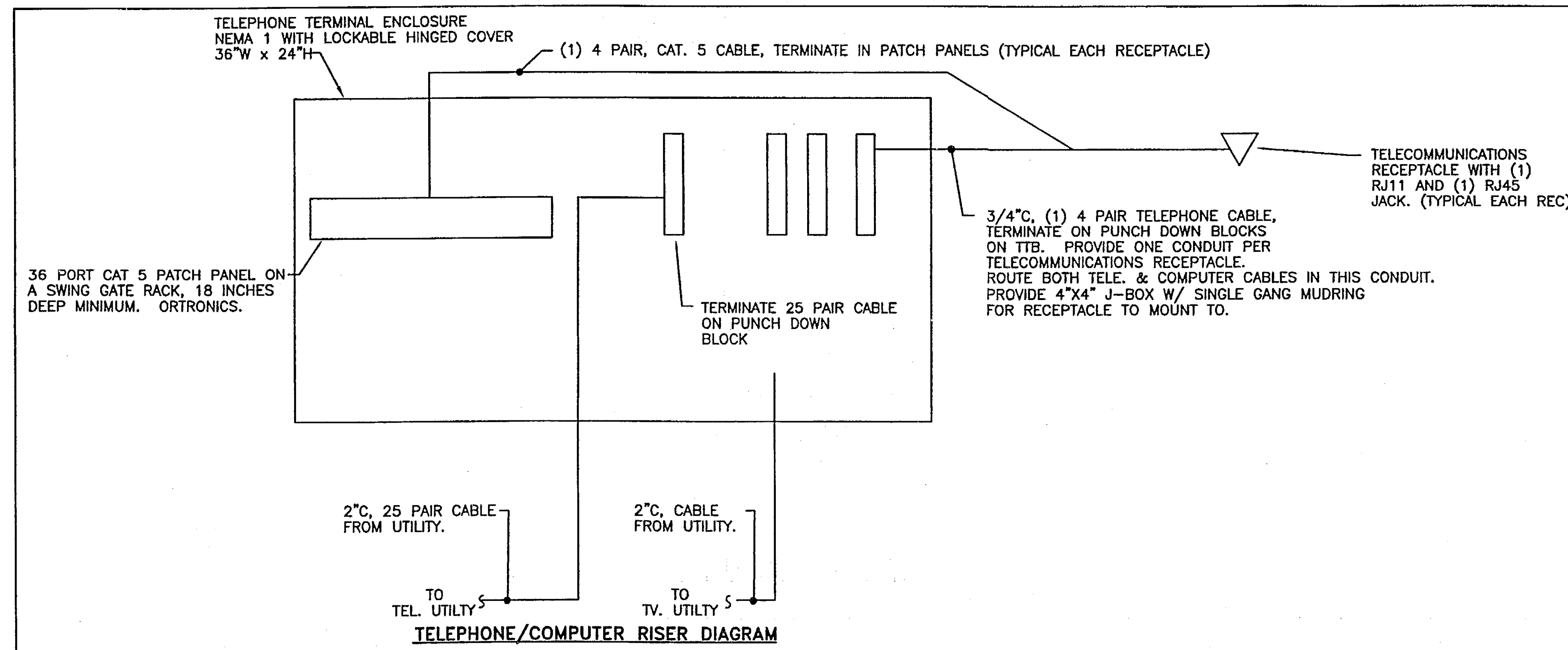
NOTE:
DO NOT SCALE FROM THESE
PLANS - USE DIMENSIONS

ENGINEER'S SEAL

STATE OF ALASKA
19th
Mark C. Morris
No. 8613
REGISTERED PROFESSIONAL ENGINEER



FIRE ALARM RISER DIAGRAM - NEW
NO SCALE



PATH:	DATE:	DESCRIPTION OF CHANGE:
BY:		

RECORD OF REVISIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

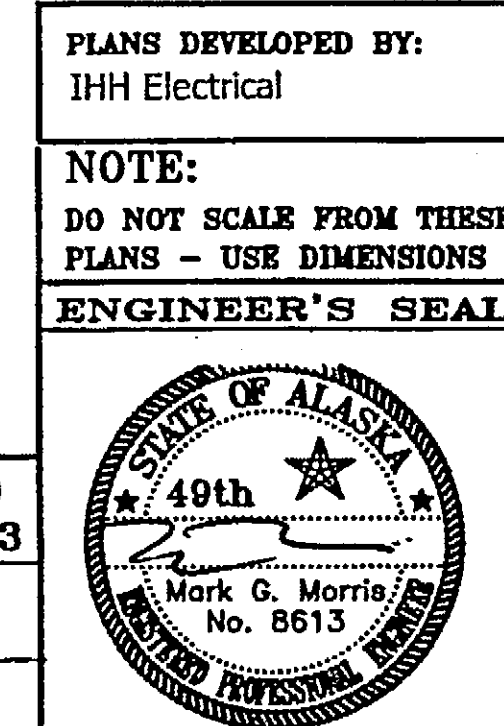
HOONAH

HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING
FIRE ALARM & TELEPHONE/COMPUTER RISER DIAGRAMS

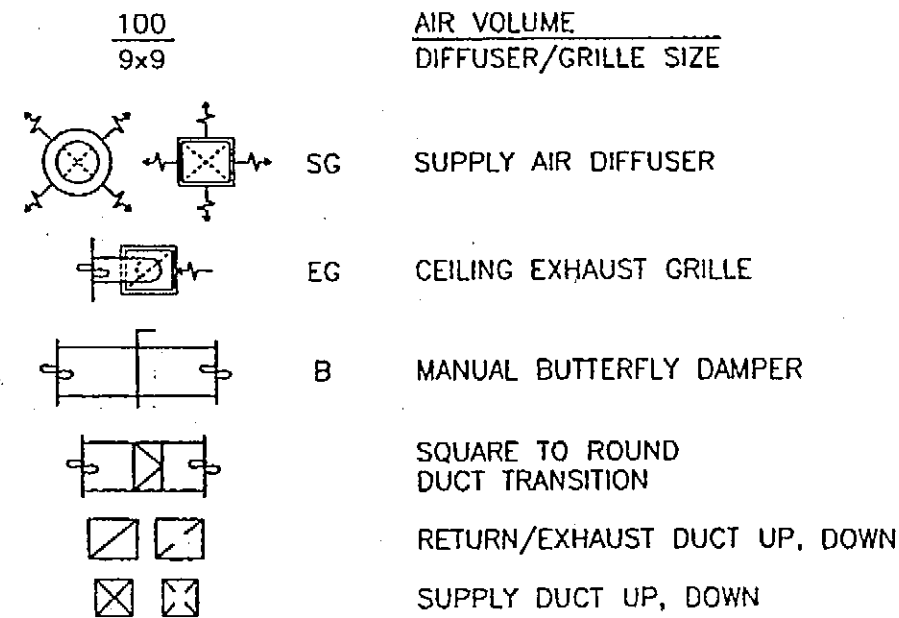
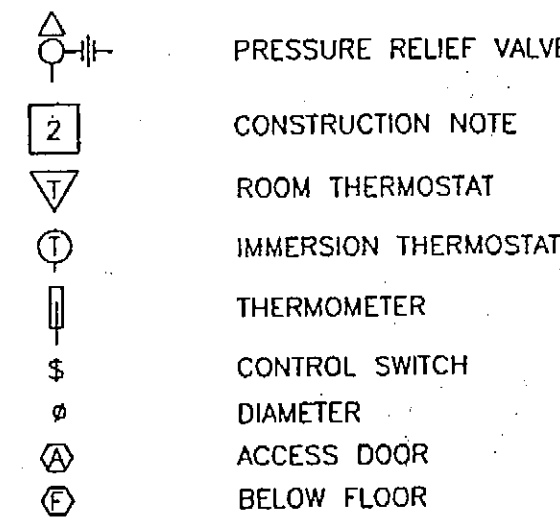
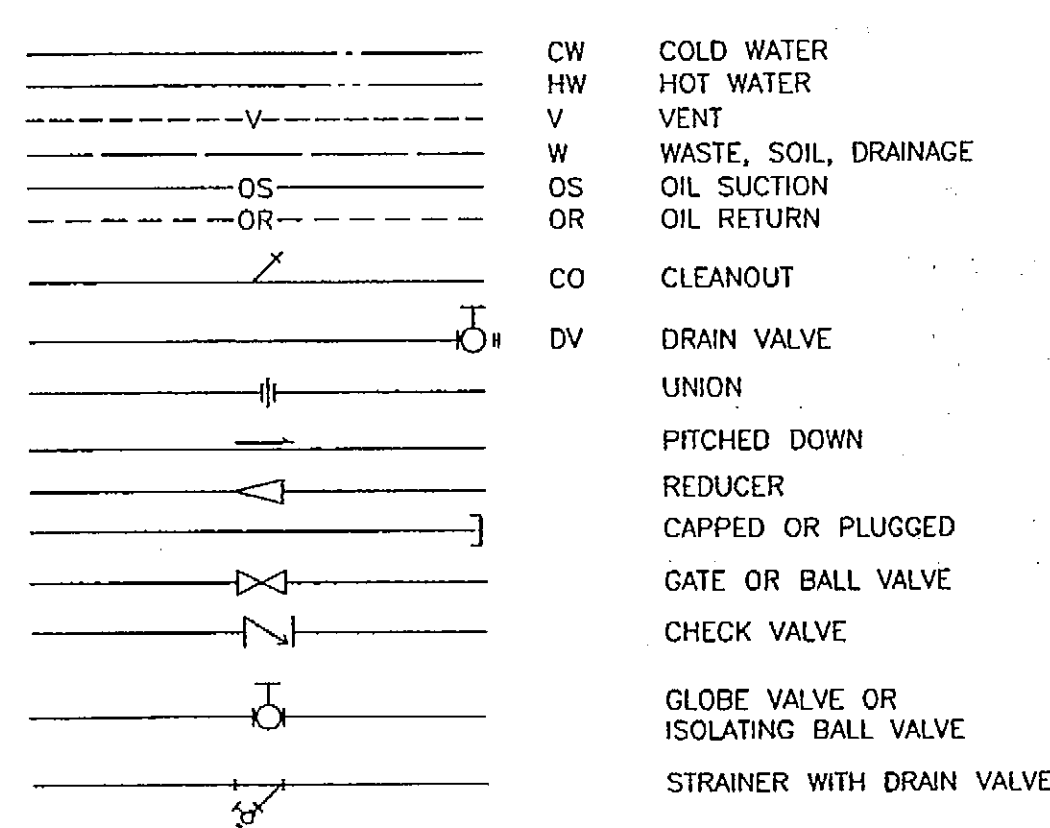
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PROJECT NO. 68389
AIP: 03-02-0125-0403
DATE:
NOVEMBER 17, 2003
SHEET E302 OF 39



SYMBOLS



BF	BELAN FINISHED FLOOR
AF	ABOVE FINISHED FLOOR
AH	AIR HANDLING UNIT
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CO	CLEANOUT
DU	DIELECTRIC UNION
EA	EXHAUST AIR
EAD	EXHAUST AIR DAMPER
EC	EXHAUST FAN
EG	EXHAUST GRILLE
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
HB	HOSE BIBB
HC	HEATING COIL
IAW	IN ARCHITECTURAL WORK
IEW	IN ELECTRICAL WORK
L	LAVATORY

WBO	LOW WATER CUTOFF
MBU	MULTIBLADE DAMPER
MBH	1,000 BTU PER HOUR
OAD	OUTSIDE AIR DAMPER
OSA	OUTSIDE AIR
P51	POUNDS PER SQUARE INCH
POU	PUMP
RLD	RELIEF AIR DAMPER
SS	SERVICE SINK
SG	SUPPLY GRILLE
T&P	TEMPERATURE AND PRESSURE
	RELIEF VALVE
TSP	TOTAL STATIC PRESSURE
TYP	TYPE
VTR	VENT THROUGH ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
WH	WALL HYDRANT

MECH. SHEET INDEX

SHEET #	SHEET NAME
M101	SCHEDULES, SYMBOLS
M201	FIRST FLOOR PLAN
M202	MEZZANINE PLAN
M203	FOUNDATION/RADIANT FLOOR PLAN
M301	DIAGRAMS
M302	DETAILS
M303	DETAILS AND ENLARGED PLAN
M401	CONTROLS

SHEET NOTE

1. SEE SPECIFICATIONS FOR ADDITIONAL DATA AND ADDITIONAL EQUIPMENT. DATA REQUIRED FOR APPROVAL OF ALL EQUIPMENT AND APPURTENANCES LISTED IN EACH SCHEDULE.

FLOWSETTER AND AUTOMATIC VALVE SCHEDULE

NUMBER	UNIT SERVED	ROOM SERVED	DESIGN GPM	SETTER SIZE (INCHES)	VALVE PRESSURE DROP - PSI	VALVE TYPE	VALVE OPERATION	NORMAL POSITION
1	RADIANT MIXING	BOILER ROOM 103	17.0	1-1/2	2.5	FOUR-WAY	MODULATING	OPEN
2	HEATING COIL	AHU COIL	19.0	1-1/2	-	-	-	-
3	BOILER BYPASS	BOILER ROOM 103	15.0	1-1/4	-	-	-	-

NOTE: INDIVIDUAL ZONE FLOWSETTERS AND AUTOMATIC VALVES SIZED BY RADIANT DESIGNER

PUMP SCHEDULE

EQUIPMENT	FUNCTION	GPM	HEAD, FT	DESIGN MANUFACTURER AND MODEL	MINIMUM HORSEPOWER ELECTRICAL CHARACTERISTICS	FEATURES
P-1	PRIMARY HEATING	17	15	TACO 00 B&G	1/8 HP, 120V, SINGLE PHASE.	STOCK, PIPE MOUNTED, UNITIZED PUMP, CAPACITY VERIFIED BY RADIANT HEAT DESIGNER.
P-2	AHU COIL	19	18	TACO 00 B&G	1/8 HP, 120V, SINGLE PHASE.	STOCK, PIPE MOUNTED, UNITIZED PUMP.
P-3	RADIANT FLOOR HEATING	17	20	TACO 00 B&G	1/8 HP, 120V, SINGLE PHASE.	STOCK, PIPE MOUNTED, UNITIZED PUMP, CAPACITY VERIFIED BY RADIANT HEAT DESIGNER.
P-4	BOILER BYPASS	15	14	TACO 00 B&G	1/8 HP, 120V, SINGLE PHASE.	STOCK, PIPE MOUNTED, UNITIZED PUMP. PROVIDE SPARE PUMP.

HEATING PLANT SCHEDULE

EQUIPMENT	FUNCTION	CAPACITY	DESIGN MANUFACTURER AND MODEL	ELECTRICAL CHARACTERISTICS	FEATURES
BOILER	BUILDING HEATING	453 MBH NET IBR	WEIL McLAIN 580		78-24 SUBMERGED HEATER.
OIL BURNER	BOILER	4.5 GALLONS PER HOUR MAXIMUM DELIVERY	BECKETT CF-800	1/3 HP, 120 VOLTS	
OIL TANK	OIL-FIRED EQUIPMENT	1,100 GALLONS	ACE TANK		ABOVE GROUND DIKE TYPE SECONDARY CONTAINMENT.

HEATING COIL SCHEDULE

COIL	UNIT SERVED	CAPACITY (MBH)	WATER TEMPERATURES ENTERING LEAVING		AIR TEMPERATURES ENTERING LEAVING		DESIGN MANUFACTURER	FEATURES AND ACCESSORIES
HC	AHU	330	190°F	160°F	0°F	60°F	COLMAC	TWO ROW. MAX 8 FPI, MAX. 0.20 INCHES AIR PRESSURE DROP, NONFERROUS MATERIAL. MAX. 500 FPM COIL VELOCITY.

FAN SCHEDULE

EQUIPMENT	AREA SERVED	CFM	TSP, INCHES OF WATER	DESIGN MANUFACTURER AND MODEL	MIN. HP	VOLTS / PHASE	FEATURES AND ACCESSORIES
AHU	SHOP AREA	6,200	1.5	LOGIC AIR PACE SCOTT SPRINGFIELD	3	240V/1ø	INTERNALLY ISOLATED. CENTRIFUGAL FAN. DWDI. AIR FOIL BLADES. TOP HORIZONTAL DISCHARGE. LOW LEAKAGE DAMPERS. INTERNAL PERFORATED METAL WALLS. FLAT FILTER BANK RACK SECTION FOR 2", 30% EFFICIENT CLASS II, PLEATED FILTERS. MAXIMUM FACE VELOCITY 450 FPM. 2" THICK, 1-1/2 LB. INSULATED WALLS. HOUSING TO CONSIST OF PRIME COATED 16 GAGE GALVANIZED STEEL. HEATING COIL SECTION WITH FACE & BYPASS DUCTS. PANELIZED CONSTRUCTION WITH DRIVE SCREW ASSEMBLY. HINGED ACCESS DOORS WITH HEAVY DUCT HANDLES FOR FAN, FILTER, AND MIXING BOX ACCESS. MAGNEHELIC FILTER GAGE MOUNTED ON FAN AND INSTALLED ACROSS FILTER SECTION. CHANNEL BASE. 1200 MAXIMUM FAN RPM.
EF-1	SHOP EF	1,000	0.375	GREENHECK COOK	1/6	120V/1ø	WALL MOUNTED CENTRIFUGAL FAN. DIRECT DRIVE, BACKWARD INCLINED, MOTOR WITH THERMAL OVERLOADS. EPOXY COAT FOR EXTERIOR MARINE APPLICATIONS. WALL MOUNTING PLATE, BIRD SCREEN, SPEED CONTROLLER
EF-2	TOILET ROOM EXHAUST	120	0.375	GREENHECK COOK	1/25	120V/1ø	CENTRIFUGAL, DIRECT DRIVE, INLINE, MAX. RPM 1,300, BACKWARD INCLINED, MOTOR WITH THERMAL OVERLOADS. HUNG FROM VIBRATION ISOLATORS.
PORTABLE AIR CLEANER	WELDING	-	-	CARMON NEDEFRMAN	1/2 TO 1	120V/1ø	PORTABLE ELECTROSTATIC AIR CLEANER DESIGNED FOR WELDING FUME REMOVAL. (1) FLEXIBLE 15' TO FOOT LONG. (2) FUME EXTRACTOR ARM, PORTABLE BASE WITH WHEELS AND FOOTBRAKE OR STABILIZING LEGS. SWIVEL JOINT RECEPTOR WITH COLLECTOR SCREEN, LIGHT, AND HANDLE.

* TSP INCLUDES HEATING COIL AND FILTER SECTION FOR THE AHU

AUTOMATIC DAMPER SCHEDULE

NO.	AREA SERVED	SIZE (INCHES)	OPERATION
OAD	AHU OSA	48x36	POSITIVE, NC - END SWITCH
EAD	EF EXHAUST	18x18	POSITIVE, NC - END SWITCH
RLD	BUILDING RELIEF	48x36	POSITIVE, NC

NOTE: ALL DAMPERS TO BE LOW LEAKAGE TYPE

PLUMBING FIXTURE SCHEDULE

FIXTURE	HOT WATER	COLD WATER	WASTE	VENT
WATER CLOSET, FLUSH VALVE	—	1-1/4	4	2
LAVATORY	1/2	1/2	1-1/2	1-1/4
FLOOR SINK	—	—	3	2
FLOOR DRAIN FD-1, FD-2	—	—	2, 4	2, 4
PRIMING LINE	—	1/2	—	—
WALL HYDRANT, HOSE BIBB	—	3/4	—	—
SERVICE SINK	1/2	1/2	3	2

PATH: .		
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STATE OF ALASKA
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HOONAH

*HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING*

ALASKA

DESIGNED BY: RS/DM

PROJECT NO.	68389
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DRAWN BY: WN

DATE: 11/17/03

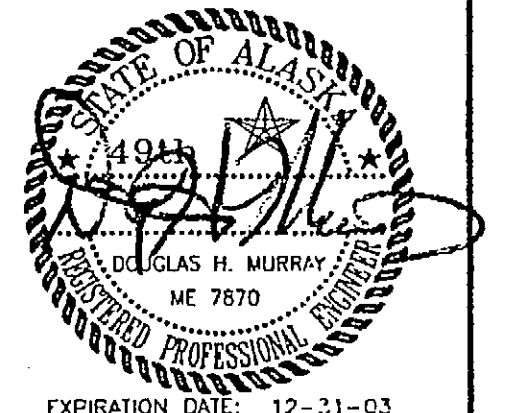
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SHEET M101 OF 39

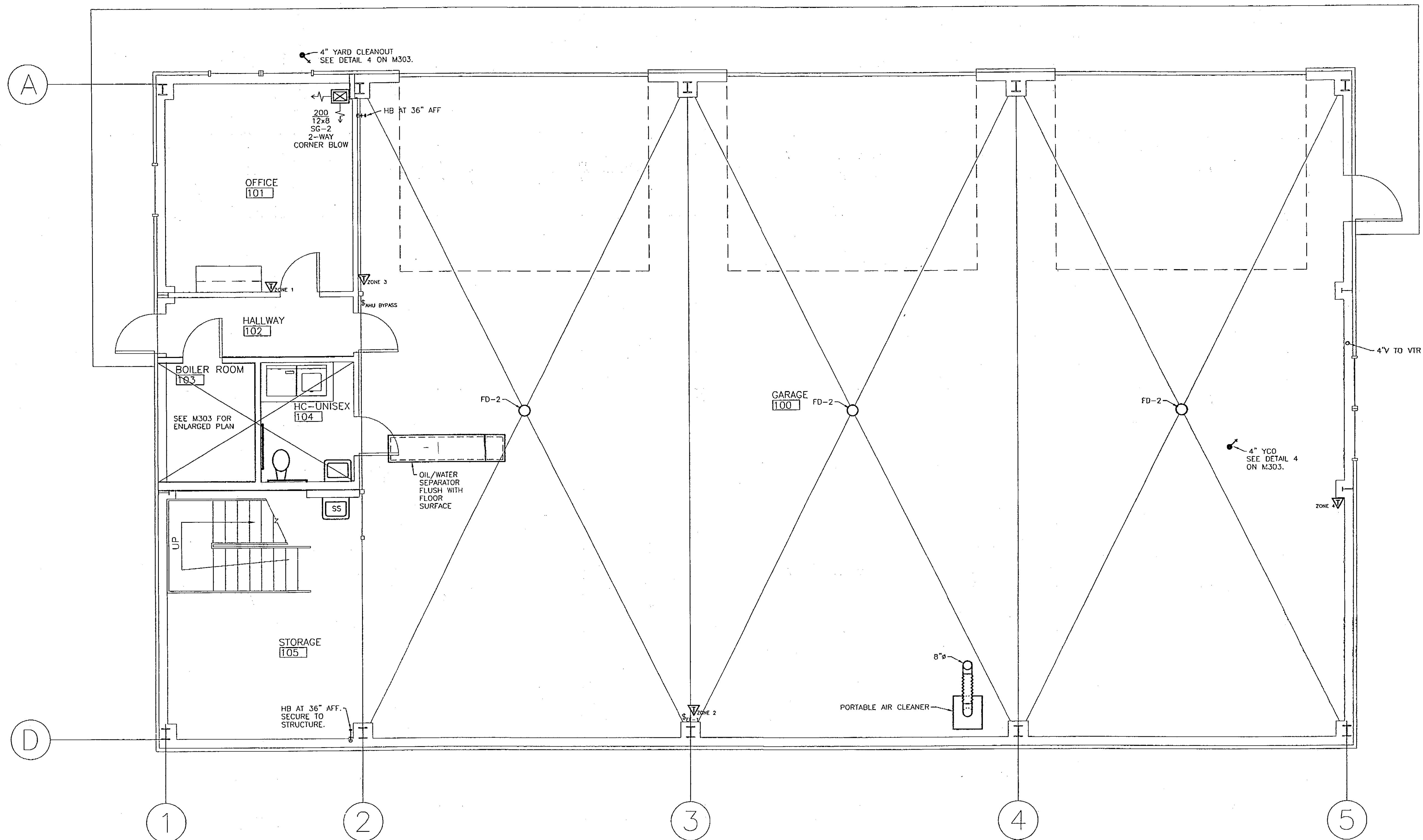


NOTE:
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PLANS - USE DIMENSIONS

ENGINEER'S SEAL



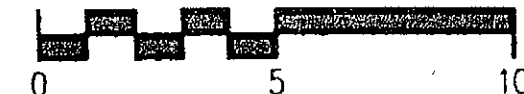
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1 FIRST FLOOR PLAN

Scale: AS NOTED

GRAPHICAL SCALE IN FEET



PATH:	DATE:	DESCRIPTION OF CHANGE:

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STATE OF ALASKA
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AND PUBLIC FACILITIES

HOONAH

HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING

ALASKA

DESIGNED BY: RS/DM

DRAWN BY: WN

CHECKED BY: DM

PROJECT NO. 68389

AIP 3-02-0126-0403

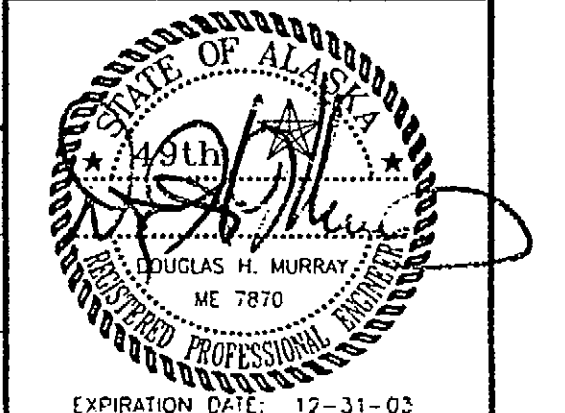
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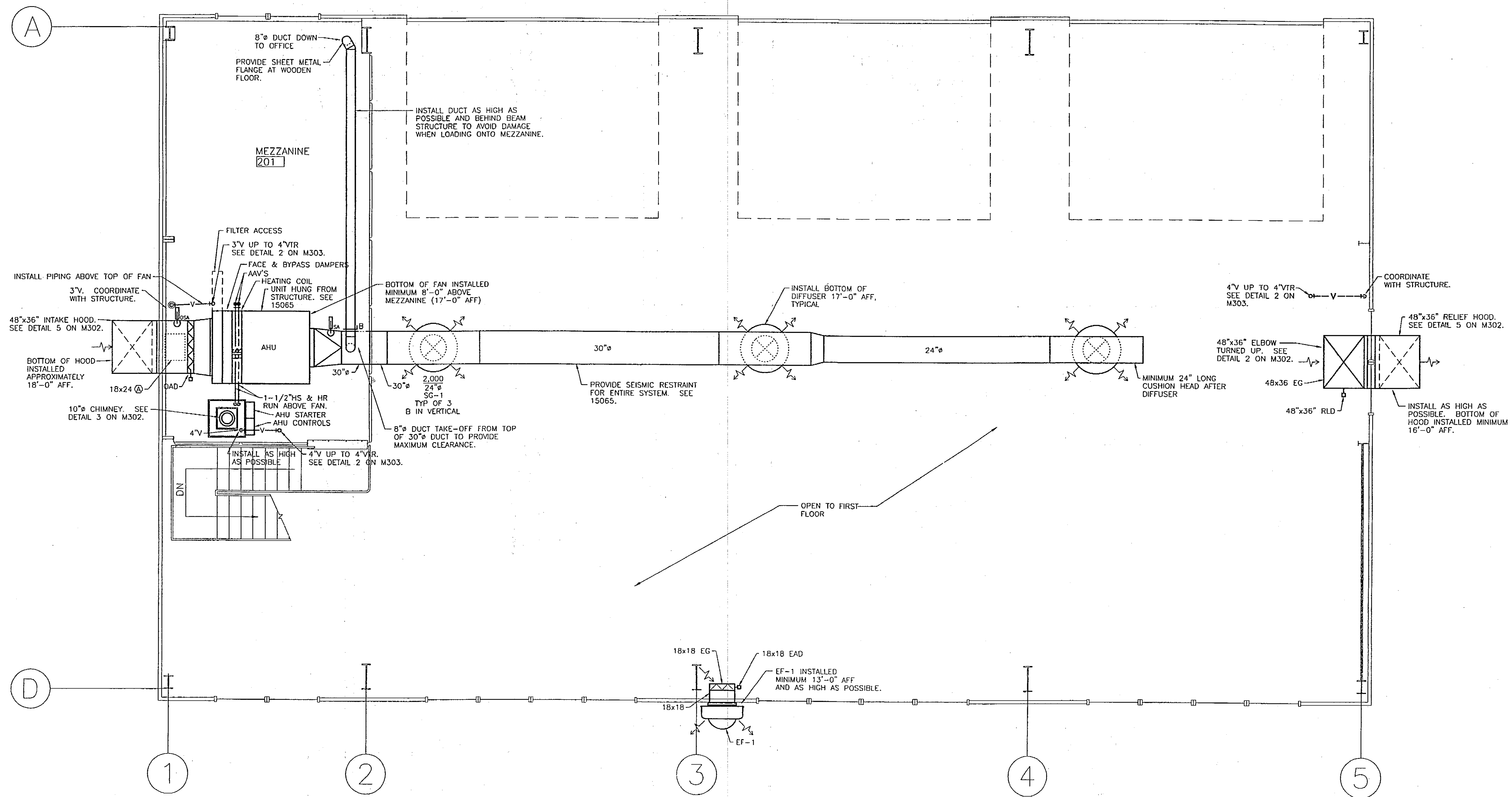
SHEET M201 OF 39

PLANS DEVELOPED BY:
MURRAY & ASSOCIATES, P. C.

NOTE:
DO NOT SCALE FROM THESE
PLANS - USE DIMENSIONS

ENGINEER'S SEAL





1 MEZZANINE PLAN
Scale: AS NOTED
GRAPHICAL SCALE IN FEET
0 5 10

PATH:	DATE:	DESCRIPTION OF CHANGE:
BY:		

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HOONAH

HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING

ALASKA

DESIGNED BY: RS/DM

DRAWN BY: WN

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PROJECT NO. 68389
AIP 3-02-0126-0403

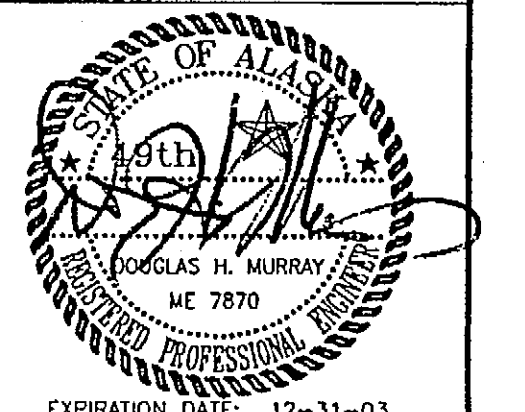
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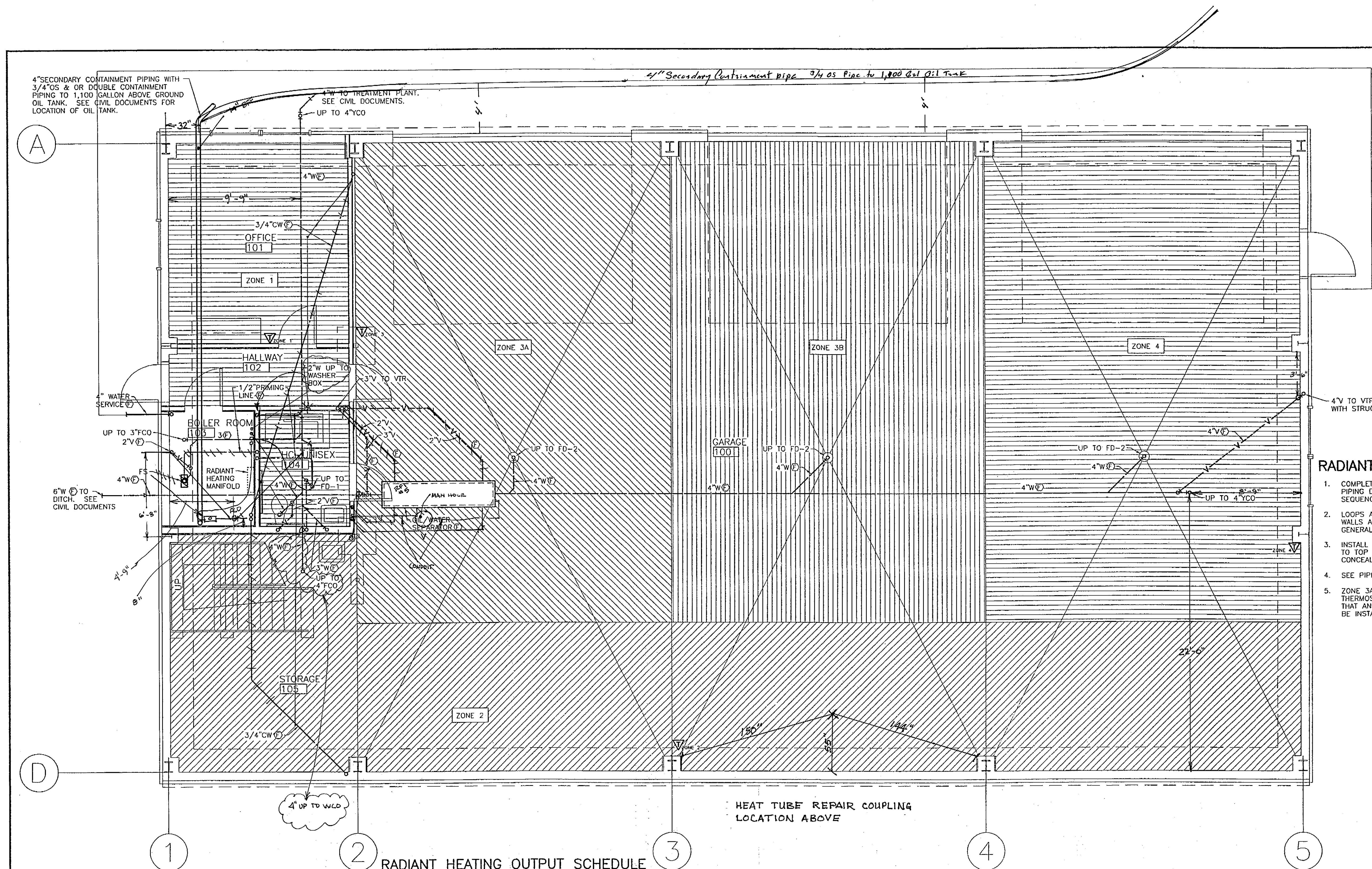
SHEET M202 OF 39

PLANS DEVELOPED BY:
MURRAY & ASSOCIATES, P. C.

NOTE:
DO NOT SCALE FROM THESE
PLANS - USE DIMENSIONS

ENGINEER'S SEAL





- RADIANT FLOOR SHEET NOTES:**
1. COMPLETE SUBMITTAL PACKAGE INCLUDING EQUIPMENT DATA, PIPING DIAGRAMS INCLUDING MANIFOLDS, SHOP DRAWINGS, SEQUENCE OF OPERATIONS, AND WIRING DIAGRAMS REQUIRED.
 2. LOOPS ARE TO START AT COLDEST AREAS, SUCH AS EXTERIOR WALLS AND DOORS. COORDINATE TUBING LOCATIONS WITH GENERAL CONTRACTOR UNDER DEPRESSED SLAB AREAS.
 3. INSTALL THERMOSTATS LOCATED WHERE SHOWN, AT 4'-0" AFF TO TOP OF THERMOSTATS. ALL CONTROL WIRING IS TO BE CONCEALED AND PROTECTED.
 4. SEE PIPING DIAGRAM ON SHEET M301 FOR SYSTEM CONFIGURATION.
 5. ZONE 3A AND ZONE 3B ARE TO BE CONTROLLED BY A SINGLE ROOM THERMOSTAT. INSTALL TUBING AND CONSTRUCT MANIFOLD SUCH THAT AN ADDITIONAL ROOM THERMOSTAT FOR ZONE 3B CAN EASILY BE INSTALLED IN FUTURE.

NOTE: TOTAL HEAT LOSS CAPACITIES SHOWN ARE NET VALUES FOR OCCUPIED SPACES ONLY AND DO NOT CONTAIN ANY DOWNWARD LOSS OR OTHER LOSSES THAT MUST BE CONSIDERED IN THE RADIANT DESIGN. SEE ARCHITECTURAL AND STRUCTURAL DOCUMENTS FOR BUILDING CONSTRUCTION AND FLOOR COVERINGS. INCLUDE ALL ASSUMPTIONS IN DESIGN CALCULATIONS SUBMITTED FOR APPROVAL.

ZONE	AREA SERVED	DESIGN HEAT LOSS	
		TOTAL BTU/HR	TOTAL BTU/HR-FT ²
1	OFFICE 101	4,100	16
1	HALLWAY 102	3,100	40
1	HC/UNISEX 104	500	7
2	STORAGE 105	5,200	17
2	NORTH GARAGE 100	20,500	22
3A	EAST GARAGE 100	15,280	16
3B	CENTRAL GARAGE 100	15,280	16
4	WEST GARAGE 100	18,200	19

HEAT TUBE REPAIR COUPLING LOCATION ABOVE

1 FOUNDATION/RADIANT FLOOR HEATING PLAN

Scale: AS NOTED

GRAPHICAL SCALE IN FEET

0 5 10

N

PATH:	DATE:	DESCRIPTION OF CHANGE:

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HOONAH
HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING

ALASKA
DESIGNED BY: RS/DM
DRAWN BY: WN
CHECKED BY: DM

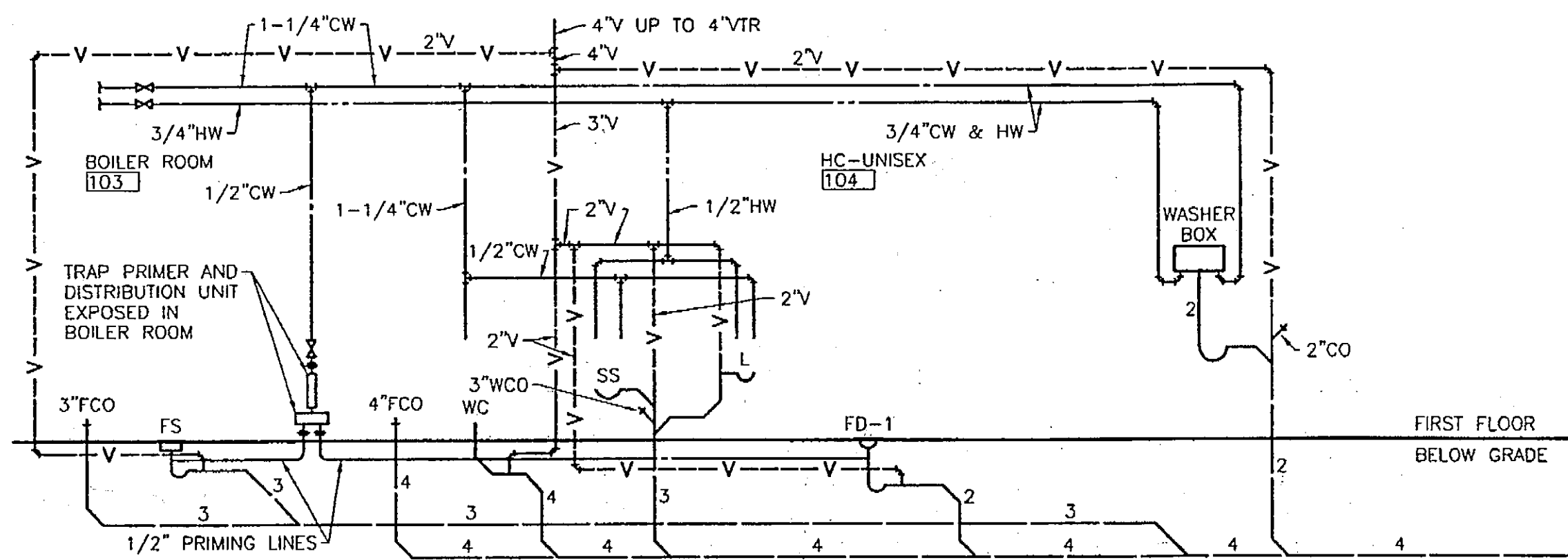
PROJECT NO. 68389
AIP 3-02-0126-0403
DATE: 11/17/03
SHEET M203 OF 39

PLANS DEVELOPED BY:
MURRAY & ASSOCIATES, P. C.

NOTE:
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PLANS - USE DIMENSIONS

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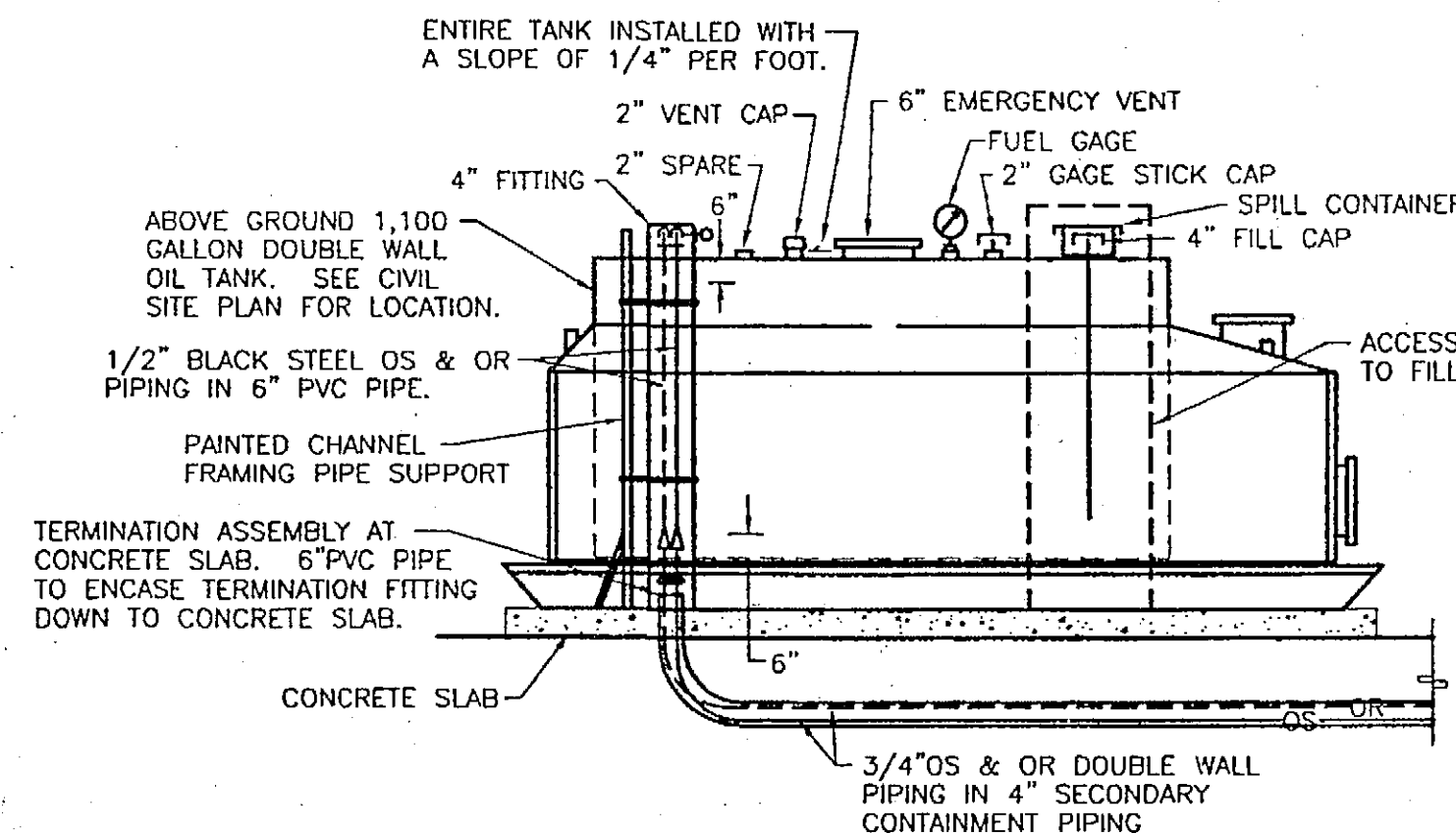
STATE OF ALASKA
1941
DOUGLAS H. MURRAY
ME 7870
PROFESSIONAL ENGINEER
EXPIRATION DATE: 12-31-03



NOTE: INSTALL AIR CHAMBERS ON EACH SUPPLY TO EACH FIXTURE. INSTALL CHAMBERS ABOVE RIM OF FIXTURE.

1 PLUMBING DIAGRAM

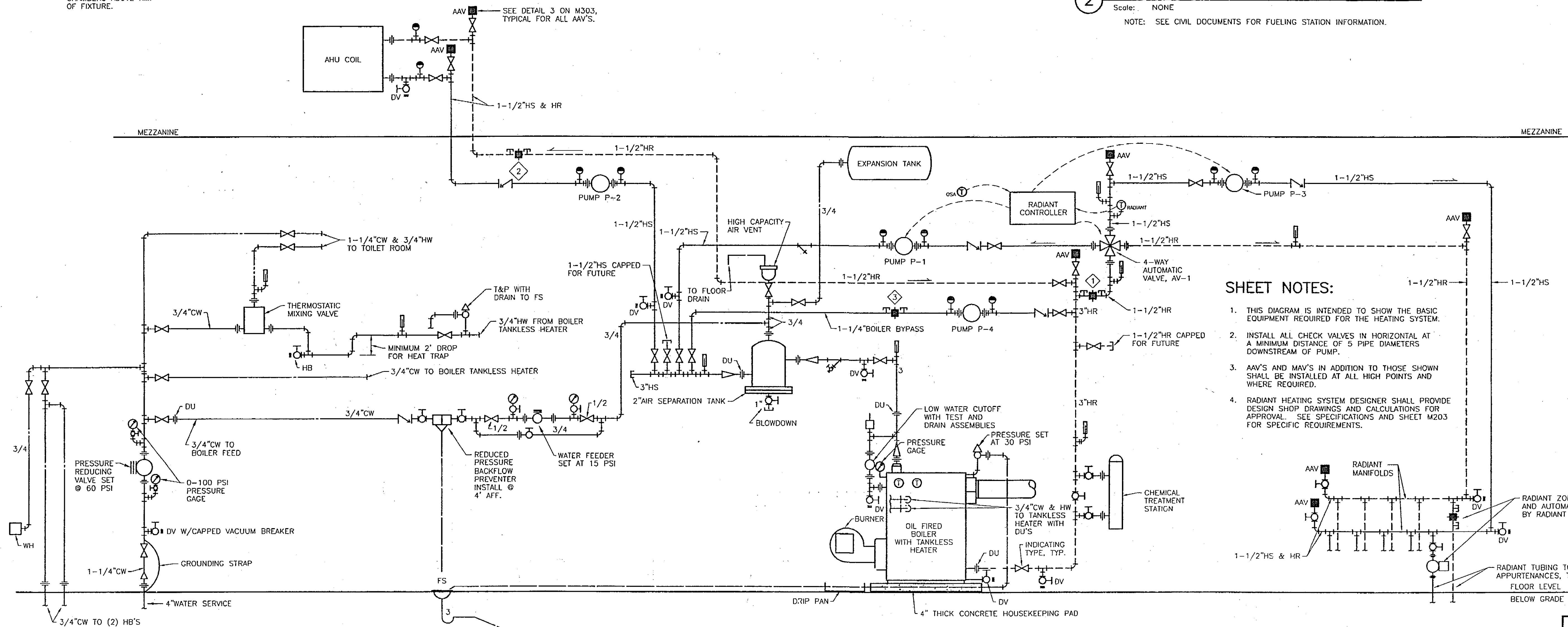
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2 OIL PIPING DIAGRAM - HEATING PLANT

Scale: NONE

NOTE: SEE CIVIL DOCUMENTS FOR FUELING STATION INFORMATION.



3 BOILER ROOM PIPING DIAGRAM

Scale: NONE

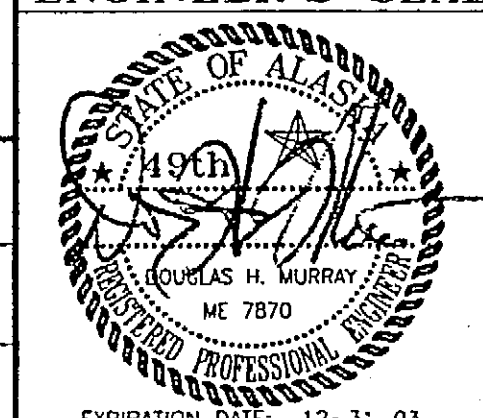
SHEET NOTES:

- THIS DIAGRAM IS INTENDED TO SHOW THE BASIC EQUIPMENT REQUIRED FOR THE HEATING SYSTEM.
- INSTALL ALL CHECK VALVES IN HORIZONTAL AT A MINIMUM DISTANCE OF 5 PIPE DIAMETERS DOWNSTREAM OF PUMP.
- AAV'S AND MAV'S IN ADDITION TO THOSE SHOWN SHALL BE INSTALLED AT ALL HIGH POINTS AND WHERE REQUIRED.
- RADIANT HEATING SYSTEM DESIGNER SHALL PROVIDE DESIGN SHOP DRAWINGS AND CALCULATIONS FOR APPROVAL. SEE SPECIFICATIONS AND SHEET M203 FOR SPECIFIC REQUIREMENTS.

PLANS DEVELOPED BY:
MURRAY & ASSOCIATES, P. C.

NOTE:
DO NOT SCALE FROM THESE
PLANS - USE DIMENSIONS

ENGINEER'S SEAL



PATH:	DATE:	DESCRIPTION OF CHANGE:
BY:		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HOONAH

HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING

ALASKA

DESIGNED BY: RS/DM

DRAWN BY: WN

CHECKED BY: DM

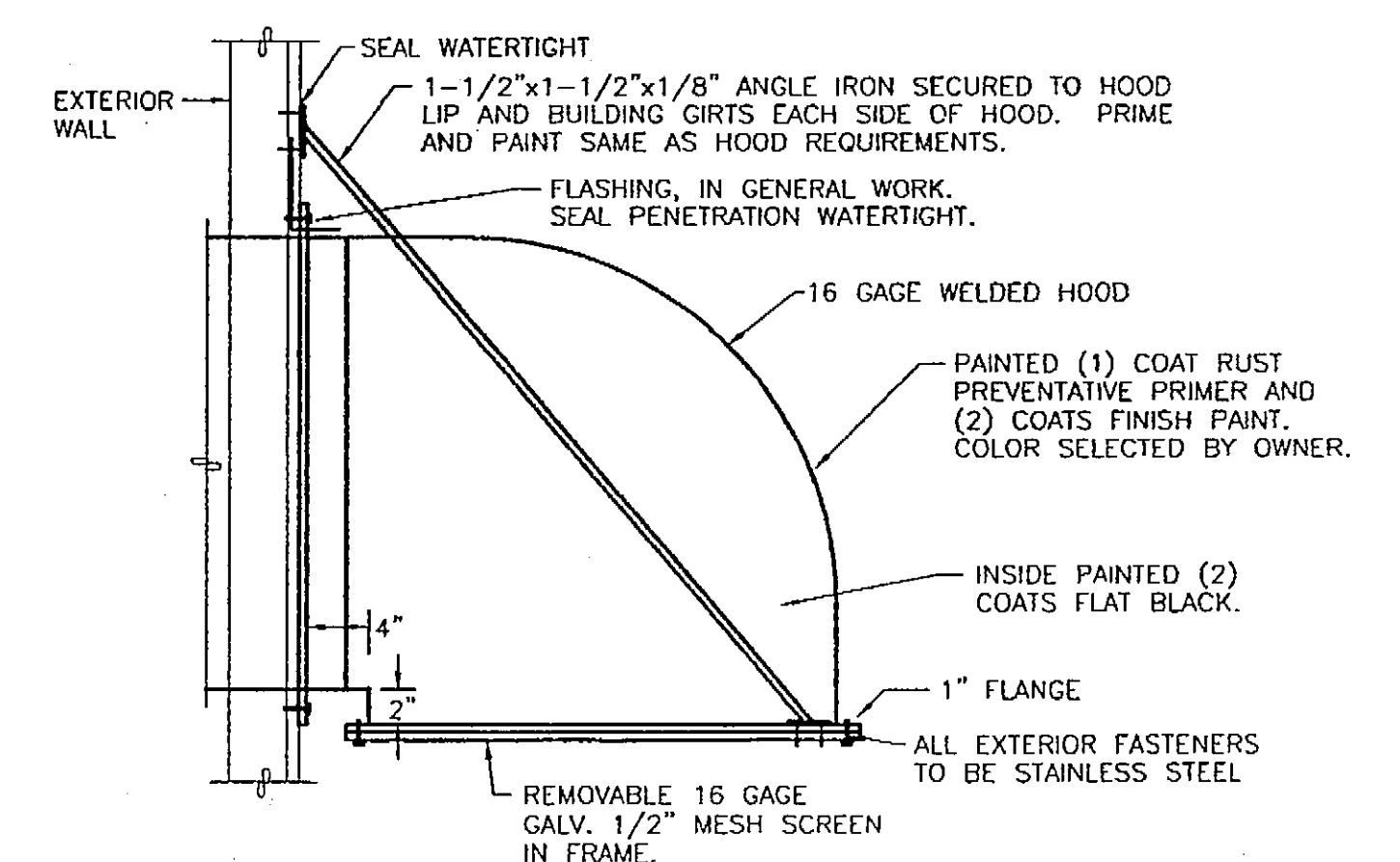
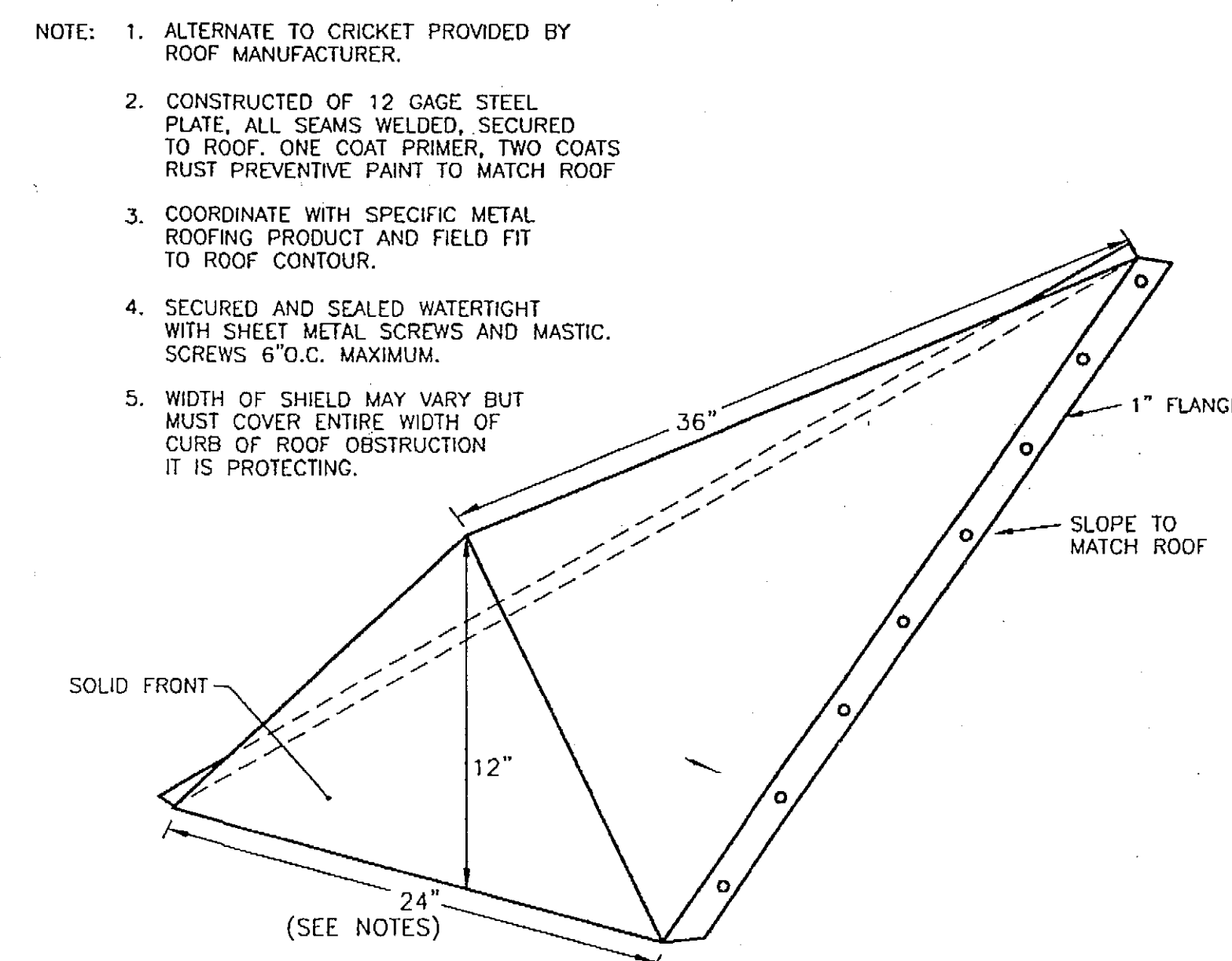
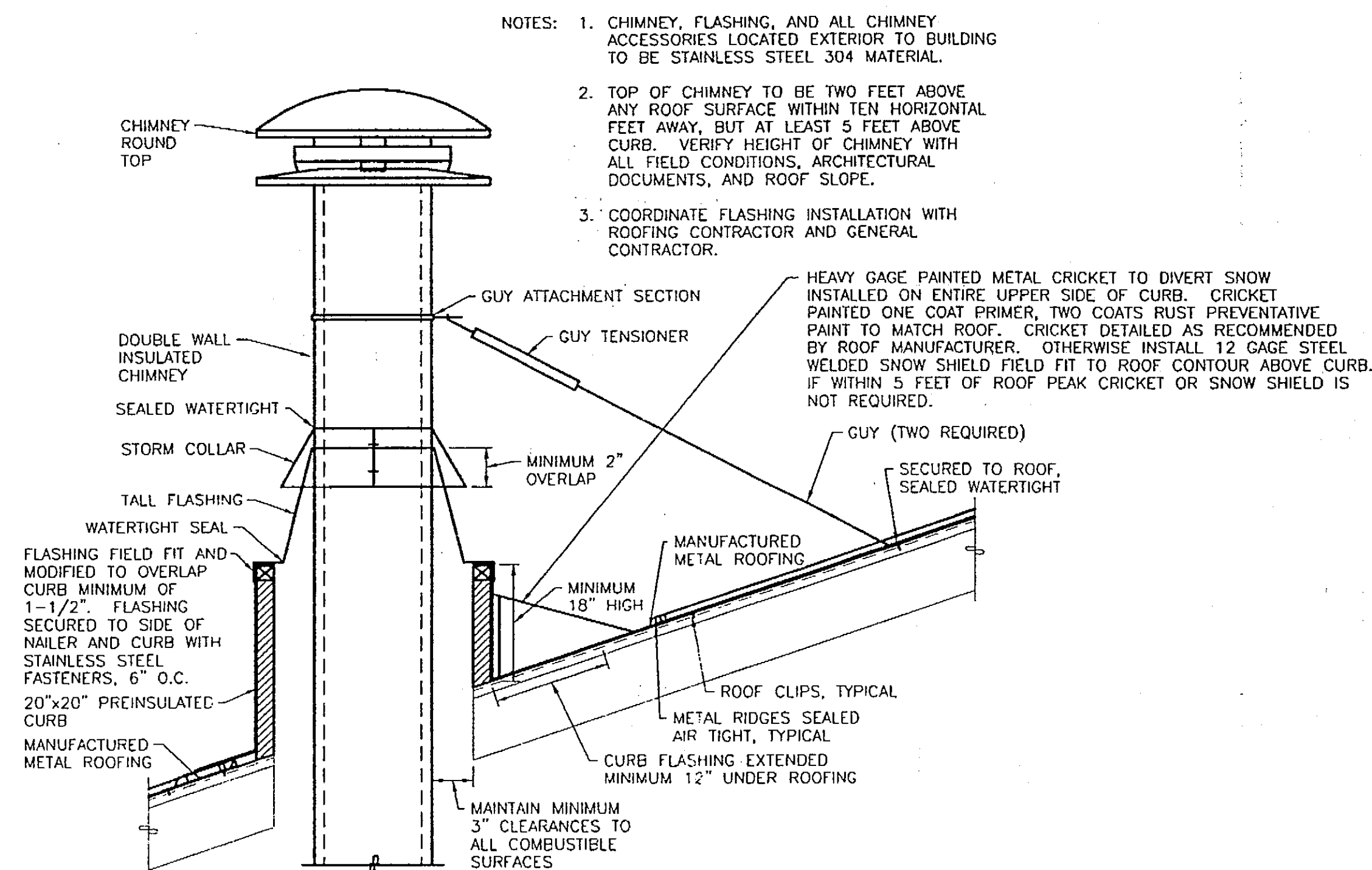
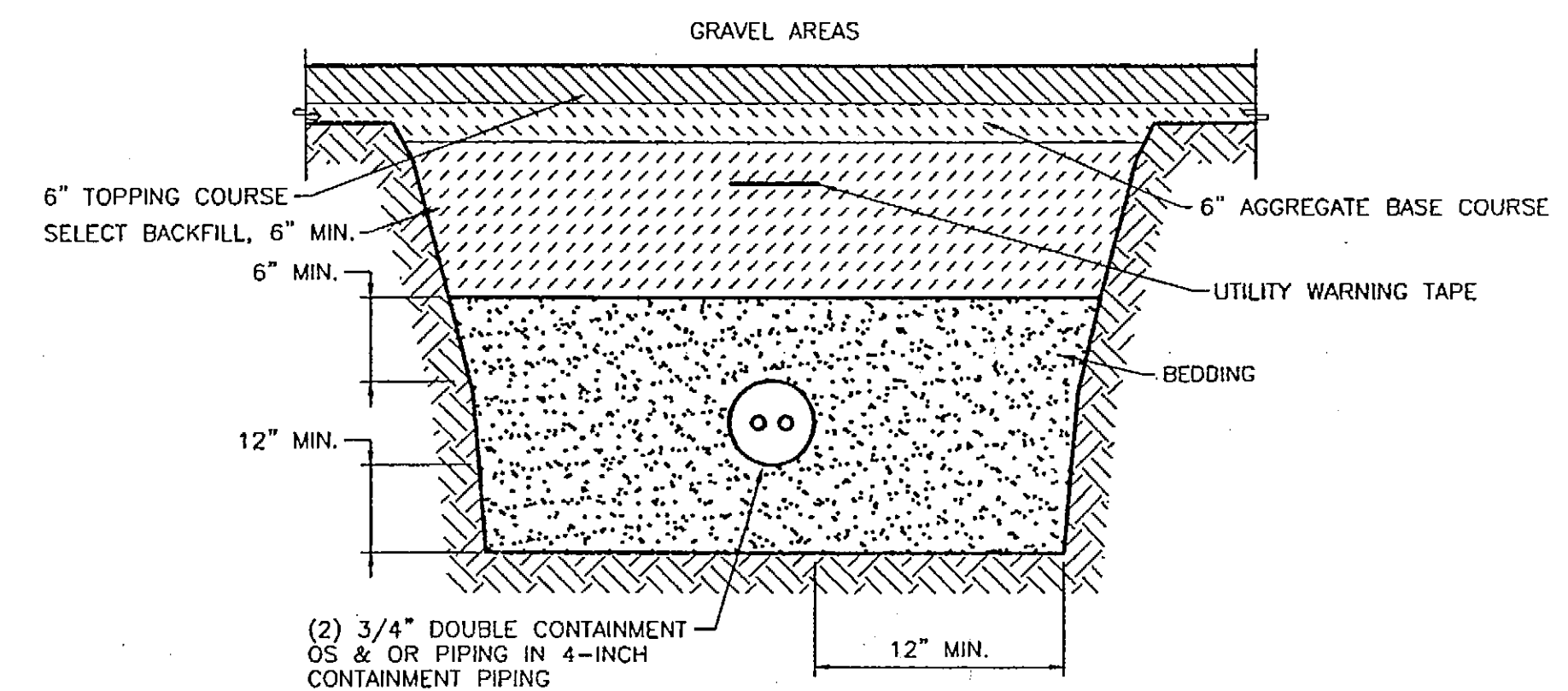
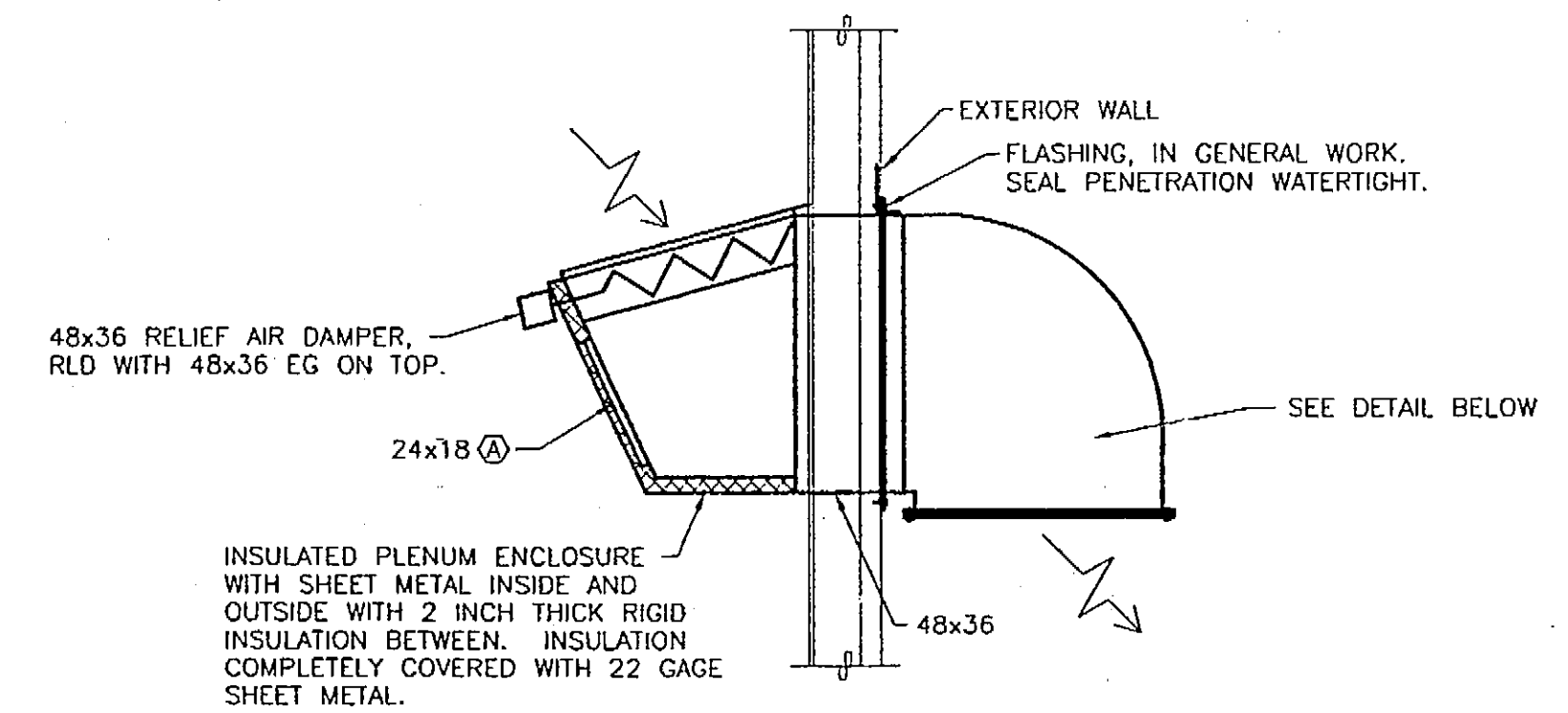
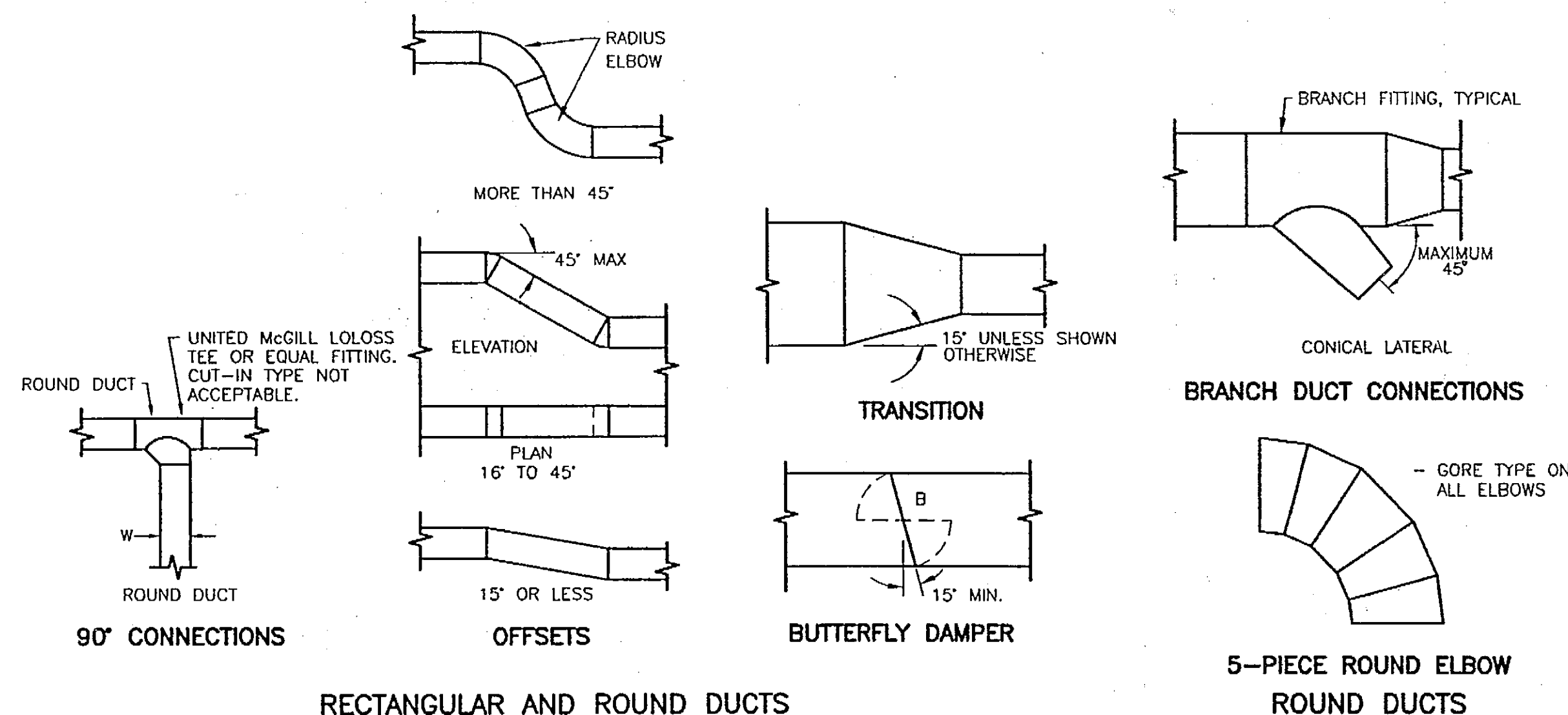
PROJECT NO. 68389

AIP 3-02-0126-0403

DATE: 11/17/03

SHEET M301 OF 39

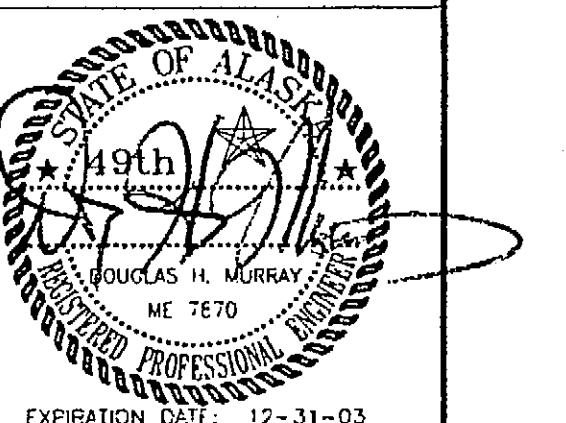
EXPIRATION DATE: 12-31-03



PLANS DEVELOPED BY:
MURRAY & ASSOCIATES, P. C.

NOTE:
DO NOT SCALE FROM THESE
PLANS - USE DIMENSIONS

ENGINEER'S SEAL



PATH:	DATE:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HOONAH

HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING

ALASKA

DESIGNED BY: RS/DM

DRAWN BY: WN

CHECKED BY: DM

PROJECT NO. 68389

AIP 3-02-0126-0403

DATE: 11/17/03

SHEET M302 OF 39

EXPIRATION DATE: 12-31-03



2 VENT THROUGH ROOF
DETAIL - METAL ROOFING
Scale: NONE



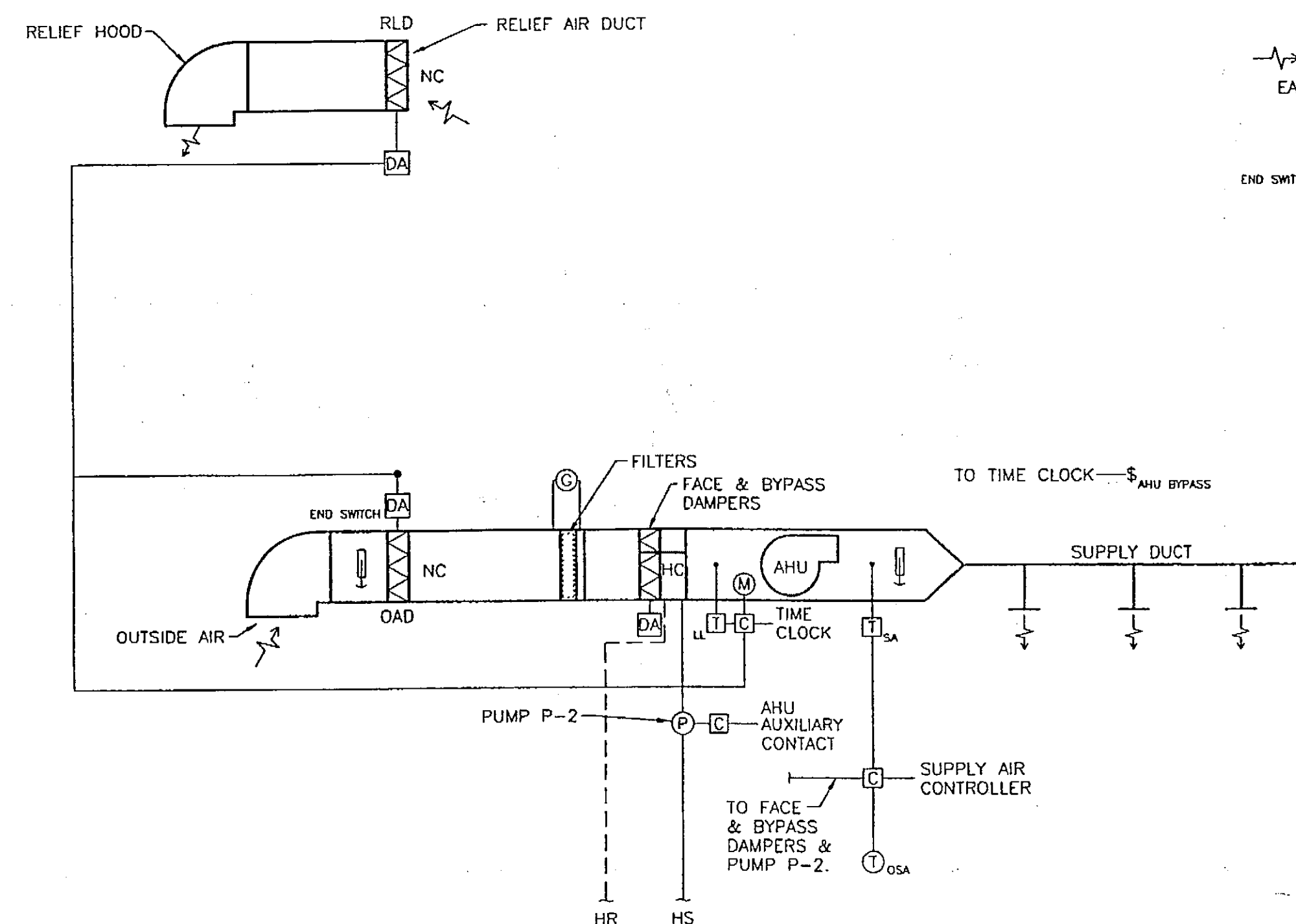
GRAPHICAL SCALE IN FEET

EXPIRATION DATE: 12-31-03

	CONTROLLER	AHU	AIR HANDLING UNIT
	VALVE ACTUATOR	EAD	EXHAUST AIR DAMPER
	DAMPER ACTUATOR	EF	EXHAUST FAN
	THERMOSTAT OR THERMOSTATIC SENSOR	NC	NORMALLY CLOSED
	PUMP	NO	NORMALLY OPEN
	MOTOR	OAD	OUTSIDE AIR DAMPER
	AIR DIRECTION	OSA	OUTSIDE AIR
	SWITCH	RLD	RELIEF AIR DAMPER
	THERMOMETER	SA	SUPPLY AIR
	GAGE		

1. THE DIAGRAMS AND POINTS SHOWN HERE ARE SCHEMATIC ONLY. THE CONTROL SYSTEM IS TO BE AN ELECTRONIC TYPE WITH CONTROLLERS, MULTI-EVENT TIME CLOCK, RELAYS, AND ACCESSORIES. A DIRECT DIGITAL MICROPROCESSOR BASED TYPE OF CONTROL SYSTEM IS NOT ACCEPTABLE. ALL CONTROL FUNCTIONS MAY BE SHOWN HEREUNDER FOR A COMPLETE OPERATING SYSTEM. SEE CONTRACT DOCUMENTS FOR ALL REQUIREMENTS.
2. THERMOMETERS PROVIDED BY MECHANICAL CONTRACTOR.
3. COORDINATE WITH ELECTRICAL AND ALL MECHANICAL DOCUMENTS FOR PROVISION AND INSTALLATION OF EQUIPMENT. STARTERS ARE GENERALLY PROVIDED UNDER ELECTRICAL WORK.
4. ALL CONTROL EQUIPMENT AND FUNCTIONS ARE TO BE CLEARLY LABELED WITH PERMANENT MATERIALS USING NOMENCLATURE SHOWN ON CONTRACT DOCUMENTS.

1. AIR HANDLING UNIT (AHU):
 - A. SWITCHES: MAGNETIC STARTER WITH HAND-OFF-AUTO SWITCH, LOCATED ON THE MOUNTING BOARD IN BOILER ROOM 103. IN THE AUTO POSITION, THE OAD AND RLD OPEN, THE AHU OPERATES, AND THE CONTROL SEQUENCE IS ENABLED DURING THE OCCUPIED CYCLE OF THE PROGRAM CLOCK. IN THE HAND POSITION, THE OAD AND RLD OPEN AND THE FAN OPERATES IN THE NORMAL OCCUPIED CYCLE. BYPASS SWITCH TO OVERRIDE AHU INTO AUTO MODE. AHU NOT TO OPERATE UNTIL OAD IS FULLY OPEN.
 - B. SUPPLY AIR TEMPERATURE: DUCT THERMOSTAT SHALL CONTROL SUPPLY AIR THERMOSTAT TO MODULATE THE FACE AND BYPASS DAMPERS ON THE HEATING COIL TO PROVIDE 60°F SUPPLY AIR TEMPERATURE AT AN OUTSIDE TEMPERATURE OF 30°F AND MODULATED TO PROVIDE 55°F SUPPLY AIR TEMPERATURE AT AN OUTSIDE TEMPERATURE OF 55°F.
 - C. LOW LIMIT CONTROL: AVERAGING BULB THERMOSTAT TO STOP THE FAN BELOW 40°F AFTER AN ADJUSTABLE TIME DELAY OF 45 SECONDS IN EITHER HAND OR AUTO POSITION OF STARTER. DURING A LOW LIMIT CONDITION, PUMP P-2 OPERATES.
 - D. BYPASS SWITCH: SWITCH WITH LARGE RED INDICATING LIGHT SHALL COMMAND THE AHU TO BYPASS THE PROGRAM CLOCK AND OPERATE THE AHU AND CONTROLS IN THE OCCUPIED CYCLE. INSTALL WHERE SHOWN WITH INDICATING SIGN LABELED "AHU BYPASS".
2. PUMP P-1 AND P-3: MAGNETIC STARTER WITH HAND-OFF-AUTO SWITCH, LOCATED ON THE MOUNTING BOARD IN BOILER ROOM 103. IN THE AUTO POSITION, THE PUMP OPERATES WHEN RADIANT FLOOR HEATING CONTROLLER CALLS FOR HEATING. IN THE HAND POSITION, THE PUMP OPERATES. THIS CONTROL MAY BE INTEGRAL WITH RADIANT HEATING CONTROLS. COORDINATE WITH RADIANT HEAT CONTRACTOR. SEE SPECIFICATIONS SECTION 15180.
3. PUMP P-2: MAGNETIC STARTER WITH HAND-OFF-AUTO SWITCH, LOCATED ON THE MOUNTING BOARD IN BOILER ROOM 103. IN THE AUTO POSITION, THE PUMP OPERATES WHEN AHU IS OPERATING UNLESS DEACTIVATED WHEN OSA REACHES ABOVE AN ADJUSTABLE 60°F. PUMP ALSO OPERATES DURING ITS LOW LIMIT ALARM. IN THE HAND POSITION, THE PUMP OPERATES.
4. EXHAUST FAN EF-1: MANUAL STARTER WITH HAND-OFF-AUTO SWITCH, LOCATED ON THE MOUNTING BOARD IN GARAGE 100. IN THE ON POSITION, THE FAN OPERATES WHEN SWITCH (WITH LARGE RED INDICATING LIGHT) IS ACTIVATED. EAD OPENS WHENEVER EF-1 OPERATES. EF-1 NOT TO OPERATE UNTIL EAD IS FULLY OPEN. SWITCH LABELED "EF-1".
5. PUMP P-4: MANUAL STARTER WITH ON-OFF SWITCH, LOCATED ON THE MOUNTING BOARD IN BOILER ROOM 103. IN THE ON POSITION, THE PUMP OPERATES.

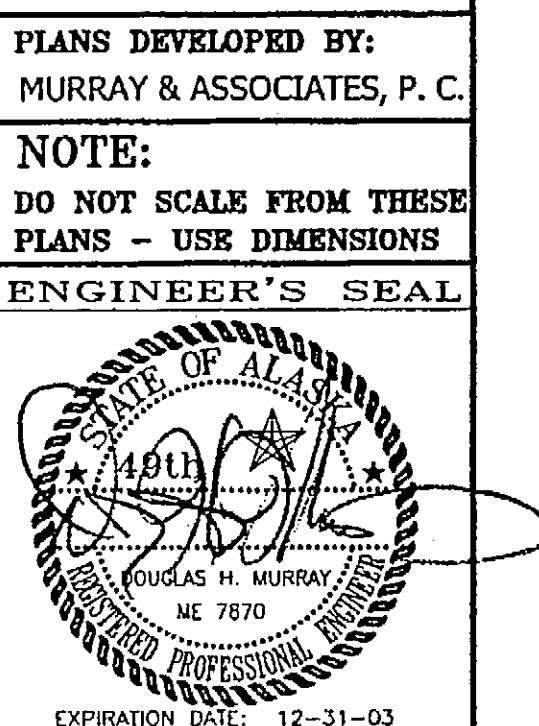


1 CONTROL SCHEMATIC
Scale: NONE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

*HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING*

SHEET M401 OF 39



NOTES

GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. THE ENGINEER SHALL IMMEDIATELY BE NOTIFIED IN WRITING OF ANY DISCREPANCIES.
- IN CASE OF CONFLICT, NOTES AND DETAILS OF THESE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE "GENERAL NOTES" AND/OR "STANDARD DETAILS."
- IF A SPECIFIC DETAIL IS NOT SHOWN FOR ANY PART OF THE WORK, THE CONSTRUCTION SHALL BE THE SAME AS FOR SIMILAR WORK.
- WORKING DIMENSIONS SHALL NOT BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THESE STRUCTURAL DRAWINGS.
- ALL CONSTRUCTION SHALL BE DONE WITH MATERIALS, METHODS, AND WORKMANSHIP ACCEPTED AS GOOD PRACTICE BY THE CONSTRUCTION INDUSTRY IN CONFORMANCE TO THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE, 2000 EDITION, AND STANDARDS REFERENCED THEREIN.
- PIPES, DUCTS, SLEEVES, OPENINGS, POCKETS, CHASES, BLOCK-OUTS, ETC., SHALL NOT BE PLACED IN SLABS, FOUNDATIONS, ETC., NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR SUCH ITEMS, UNLESS SPECIFICALLY DETAILED ON THESE STRUCTURAL DRAWINGS.
- IN AREAS TO BE EXCAVATED, THE CONTRACTOR SHALL DETERMINE THE LOCATIONS OF EXISTING UTILITY SERVICES PRIOR TO EXCAVATION.
- THE CONTRACTOR SHALL REVIEW THE METAL BUILDING MANUFACTURER'S PLAN TO ENSURE THERE ARE NO DISCREPANCIES BETWEEN THE ANCHOR BOLT LAYOUT AND THE FOUNDATION DESIGN. THE MINIMUM REQUIRED EDGE DISTANCE FROM ANCHOR BOLTS TO THE EDGE OF CONCRETE PEDESTALS SHALL BE 4". ANY DISCREPANCIES FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE AK DOT/PF PROJECT MANAGER IN WRITING BEFORE THE BUILDING IS ORDERED.
- SPECIAL INSPECTION:
 - SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING TYPES OF WORK IN CONFORMANCE WITH SECTION 1704 OF THE INTERNATIONAL BUILDING CODE & SPECIFICATION SECTION 13125.3.12:

FIELD WELDING,
HIGH STRENGTH BOLTS,
ANCHOR BOLTS.
 - THE FOLLOWING REQUIREMENTS SHALL BE MET OR SPECIAL INSPECTION:
 - THE SPECIAL INSPECTOR SHALL BE UNDER THE SUPERVISION OF A CIVIL ENGINEER REGISTERED IN ALASKA.
 - THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE DESIGN ENGINEER, AND THE OWNER. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION; THEN, IF UNCORRECTED, TO THE DESIGN ENGINEER AND THE BUILDING OFFICIAL.
 - THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT SIGNED BY THE ENGINEER SUPERVISING THE WORK, STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE IBC.
- SHOP DRAWINGS:
 - SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO FABRICATION.
 - SHOP DRAWINGS SHALL BE COMPLETE, CHECKED, AND APPROVED BY THE GENERAL CONTRACTOR BEFORE SUBMITTING TO THE ENGINEER FOR REVIEW. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION AND COORDINATION OF DIMENSIONS AND DETAILS FOR SUBCONTRACTORS. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IF THERE ARE ANY DISCREPANCIES IN THE DIMENSIONS OR DETAILS.
 - SHOP DRAWINGS ARE REQUIRED FOR THE FOLLOWING ITEMS:

REINFORCING STEEL,
METAL BUILDING,
METAL STAIRS,
MEZZANINE FLOOR FRAMING AND LATERAL BRACING,
MEZZANINE HAND RAIL.

FOUNDATION

- FOUNDATION DESIGN IS BASED UPON THE GEOTECHNICAL MEMORANDUM FOR THE HOONAH SNOW REMOVAL EQUIPMENT BUILDING, BY RALPH SWEDELL, REGIONAL GEOLOGIST, AK DOT&PF, PROJECT NO. 68389, DATED NOVEMBER 29, 2001. SOIL DESIGN IS BASED ON ASSUMED ALLOWABLE SOIL BEARING PRESSURE 2,000 PSF PER IBC, ON ENGINEERED FILL OR BEDROCK.
- FOR DETAILS OF FOUNDATION PREPARATION SEE CIVIL PLAN, SHEET C4.

REINFORCING STEEL

- BAR REINFORCEMENT SHALL CONFORM TO THE FOLLOWING GRADES OF ASTM A615, INCLUDING SUPPLEMENT S1:

#3: GRADE 40
#4 AND LARGER: GRADE 60
- DETAILS OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH CHAPTER 7 OF THE AMERICAN CONCRETE INSTITUTE (ACI) 318-89 (REVISED 1992), UNLESS OTHERWISE NOTED.
- LAPS AT BAR SPLICES IN CONCRETE CONSTRUCTION SHALL BE CLASS B IN ACCORDANCE WITH CHAPTER 12 OF ACI 318-89 (REVISED 1992), UNLESS OTHERWISE NOTED.
- VERTICAL BARS IN CONCRETE WALLS SHALL BE ACCURATELY POSITIONED AT THE CENTER OF THE WALL, UNLESS OTHERWISE NOTED.
- ALL REINFORCING STEEL SHALL BE SECURELY TIED IN POSITION PRIOR TO PLACING CONCRETE.
- BAR SUPPORTS SHALL BE PROVIDED IN ACCORDANCE WITH THE PROVISIONS OF "BAR SUPPORT SPECIFICATIONS" AS CONTAINED IN THE LATEST EDITION OF THE "MANUAL OF STANDARD PRACTICE" BY THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
- REINFORCING STEEL DETAILING, BENDING, AND PLACING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "MANUAL OF STANDARD PRACTICE" BY CRSI.
- WELDING OF CROSSING BARS AND TACK WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED.

REINFORCED CONCRETE

- REINFORCED CONCRETE SHALL CONFORM TO THE FOLLOWING:
 - THE MINIMUM 28-DAY COMPRESSIVE STRENGTH SHALL BE: 3,000 PSI
 - THE MAXIMUM SLUMP SHALL BE 4 INCHES.
 - THE MINIMUM CEMENT CONTENT SHALL BE 5-1/2 SACKS PER CUBIC YARD OF CONCRETE.
 - SLABS AND OTHER FLATWORK SHALL BE AIR ENTRAINED (4-6%), HAVE A MAXIMUM SLUMP OF 4 INCHES AND A MAXIMUM WATER/CEMENT RATIO OF 0.5.
- PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE I OR II.
- AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33.
- CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS," EXCEPT AS MODIFIED BY THESE NOTES.
- ADMIXTURES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER. ADMIXTURES SHALL COMPLY WITH ASTM A494. ADMIXTURES USED TO INCREASE THE WORKABILITY OF THE CONCRETE SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED.
- READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94.
- SLEEVES, PIPES, OR CONDUITS SHALL NOT BE PLACED THROUGH CONTINUOUS OR SPREAD FOOTING.
- ALL VERTICAL SURFACES OF CONCRETE ABOVE FINISHED GRADE SHALL BE FORMED.
- CONSTRUCTION JOINTS SHALL BE ADEQUATELY KEYED AT THE LOCATIONS SHOWN ON THE PLANS.
- CONCRETE PLACEMENTS SHALL BE CONTINUOUS BETWEEN CONTRACTION JOINTS. CONTRACTION JOINTS SHALL BE PLACED FOR SLAB-ON-GRADE SUCH THAT THE MAXIMUM AREA BOUNDED BY JOINTS IS 400 S.F.
- CHAMFER ALL EXPOSED CORNERS 3/4"

DESIGN CRITERIA

CODE: INTERNATIONAL BUILDING CODE, 2000 EDITION (IBC 2000)

- ROOF SNOW LOAD: 70 PSF,
DESIGN FOR UNBALANCED LOADING, DRIFTING & SLIDING.
- WIND LOADS:
BASIC WIND SPEED: 110 MPH (3 SEC. GUST)
EXPOSURE B
- SEISMIC:
SITE CLASS D
SEISMIC USE GROUP 1
DESIGN CATEGORY D
SDs = 0.62
SD1 = 0.43

INCLUDE 25% OF ROOF SNOW LOAD WITH THE DEAD LOADS FOR SEISMIC DESIGN.

- FLOOR LIVE LOADS:
MEZZANINE LIGHT STORAGE: 125 PSF.

RFI #1

Terrain category = "B"
"Partial exposure"

Snow Exposure Factor = 1

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RECORD OF REVISIONS		
BY:	DATE:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HOONAH

HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING
GENERAL NOTES

ALASKA

DESIGNED BY: ADS

DRAWN BY: MRC

CHECKED BY: ADS

PROJECT NO. 68389
AIP 3-02-0125-0403

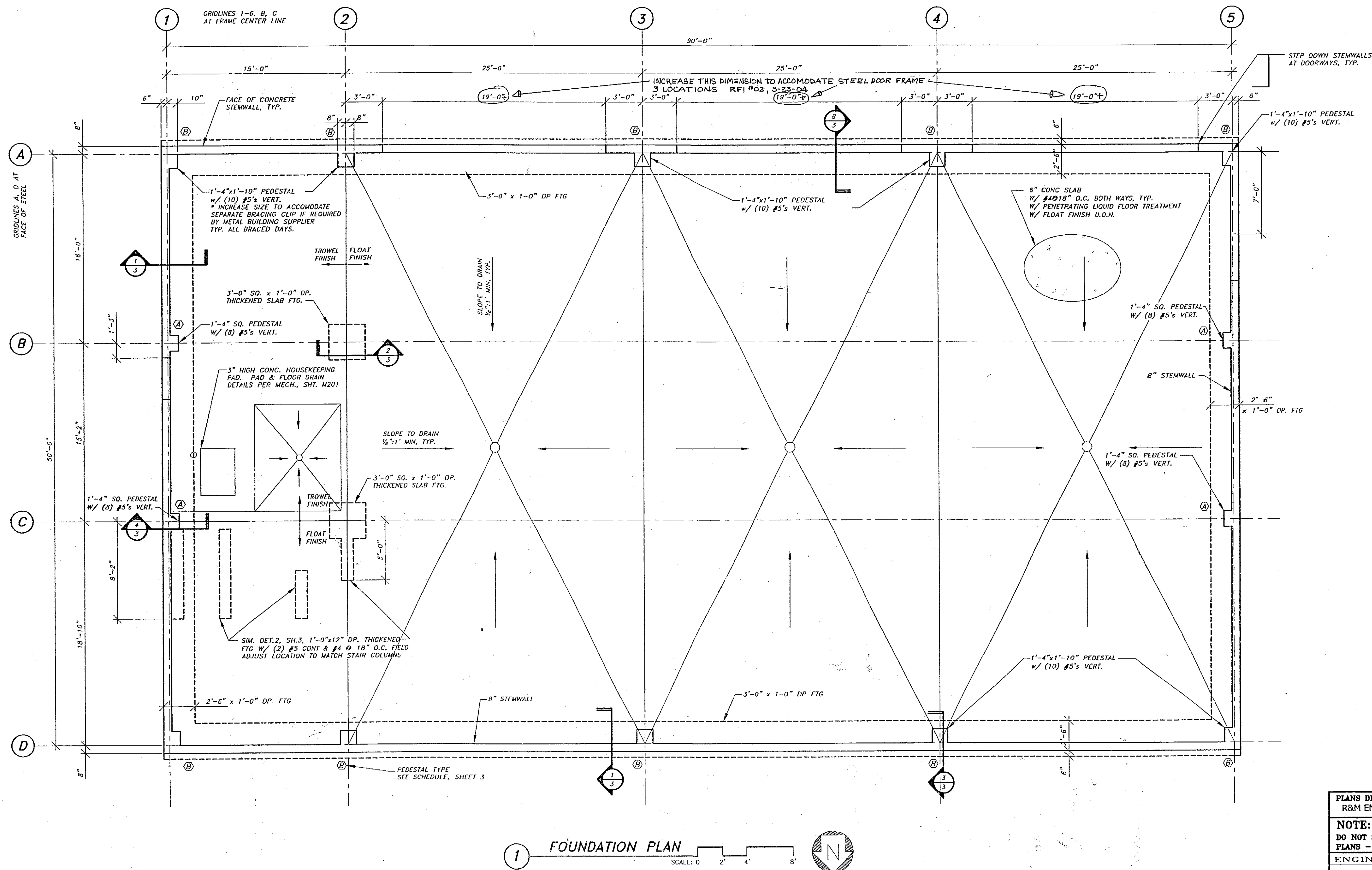
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SHEET S1 OF 39

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
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PLANS - USE DIMENSIONS
ENGINEER'S SEAL





PATH: .		
BY:	DATE:	DESCRIPTION OF CHANGE:
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HOONAH

*HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING*
FOUNDATION PLAN

ALASKA

DESIGNED BY: ADS

DRAWN BY: MRC

CHECKED BY: ADS

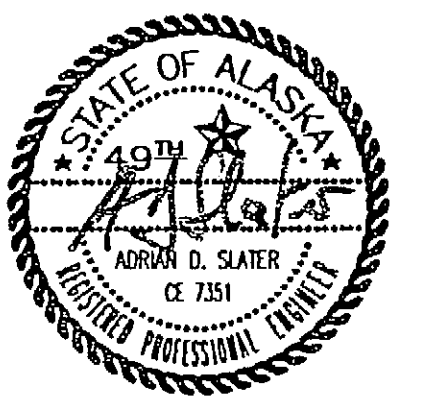
PROJECT NO. 68389 AIP 3-02-0125-0403

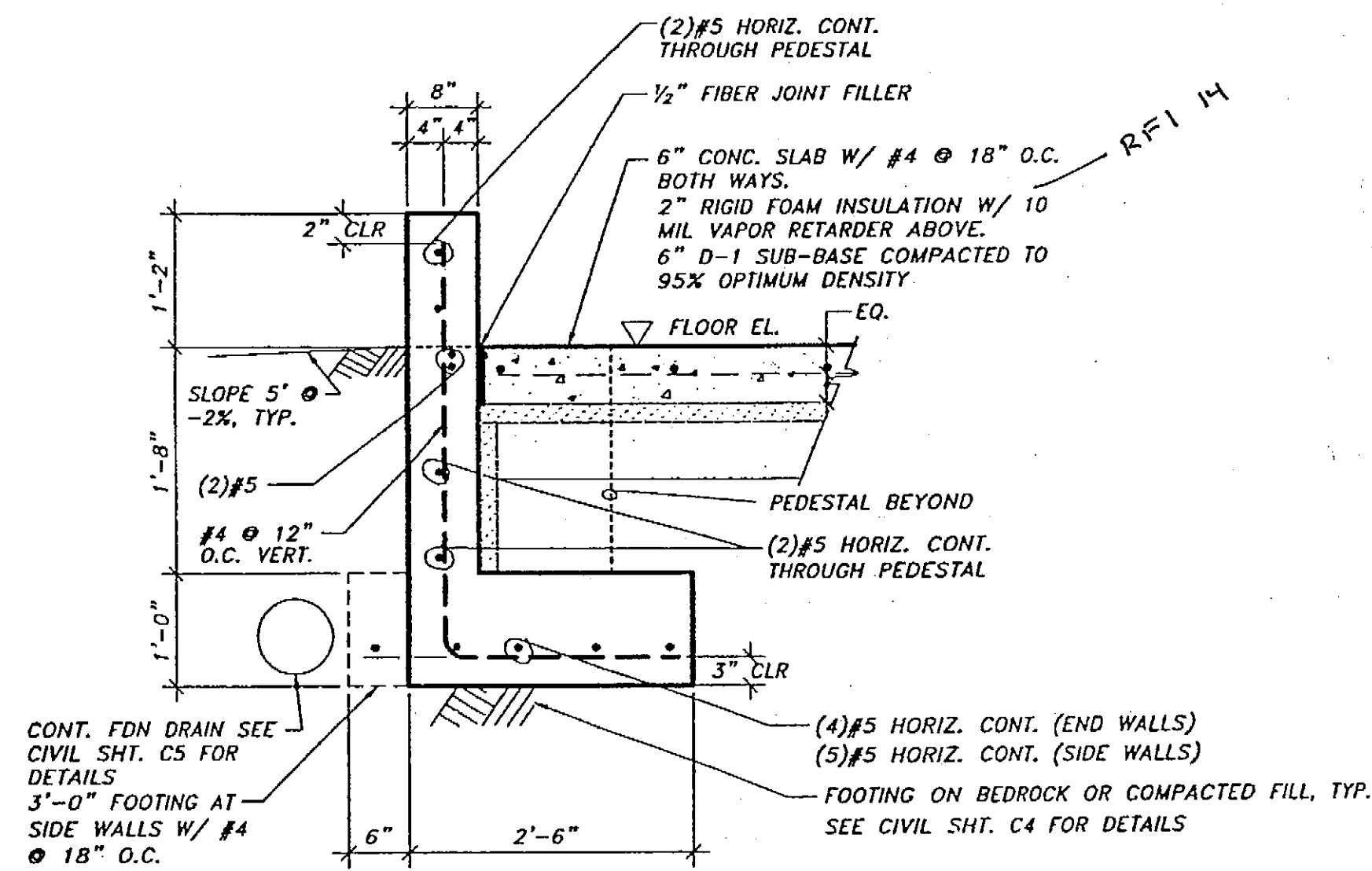
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SHEET S2 OF 39

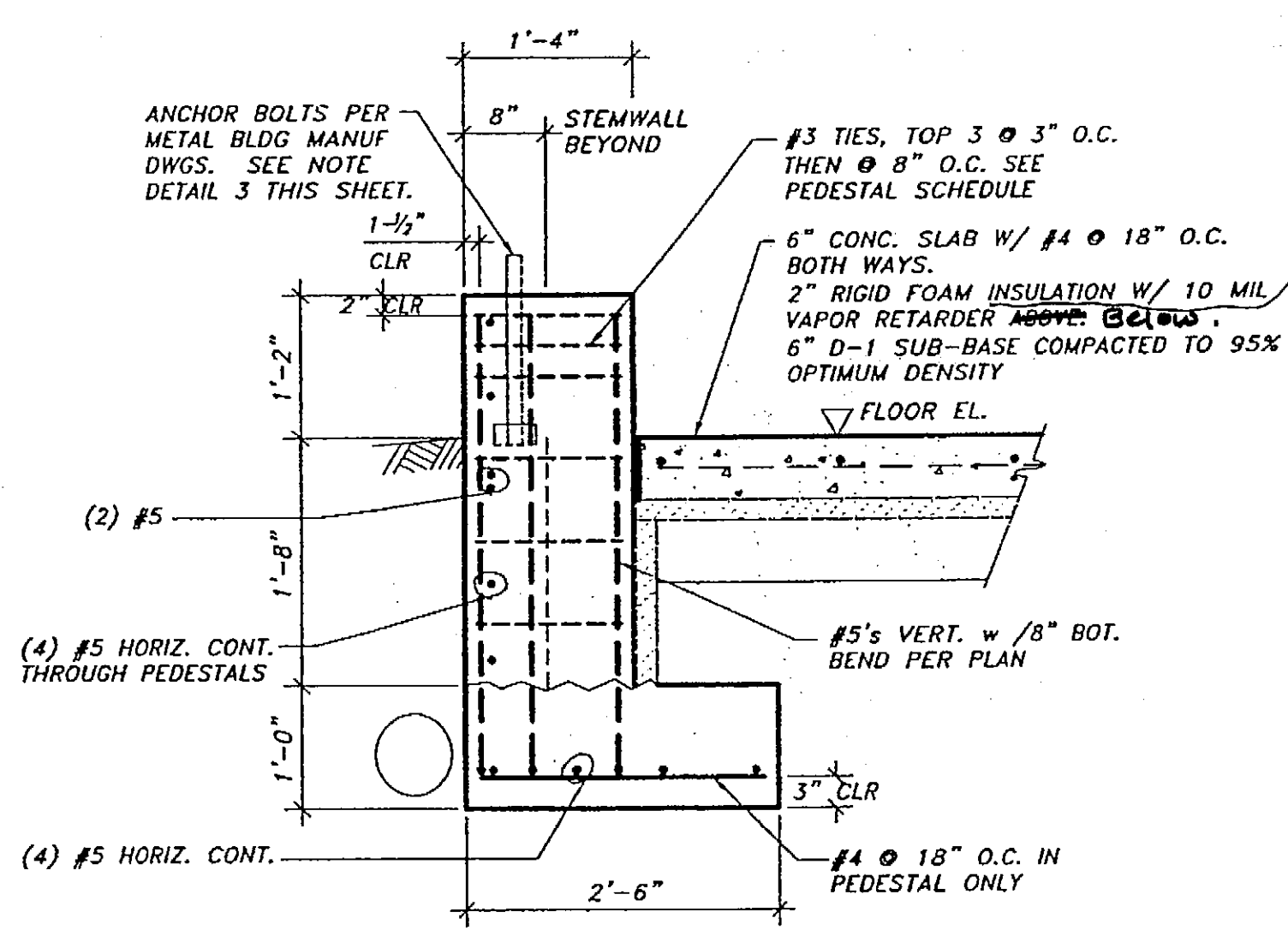
PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
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PLANS - USE DIMENSIONS
ENGINEER'S SEAL

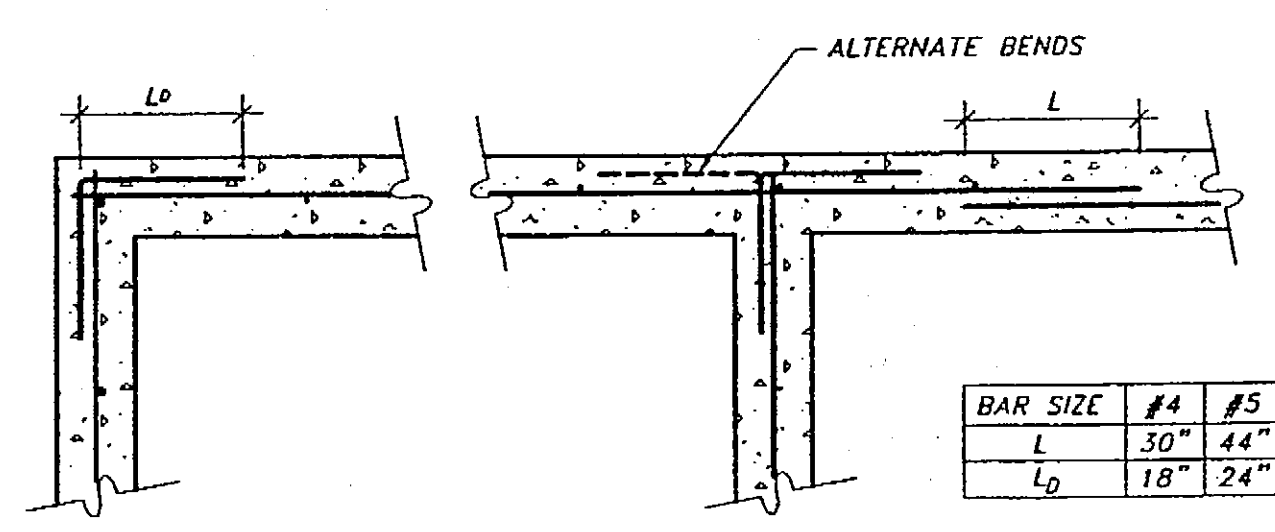




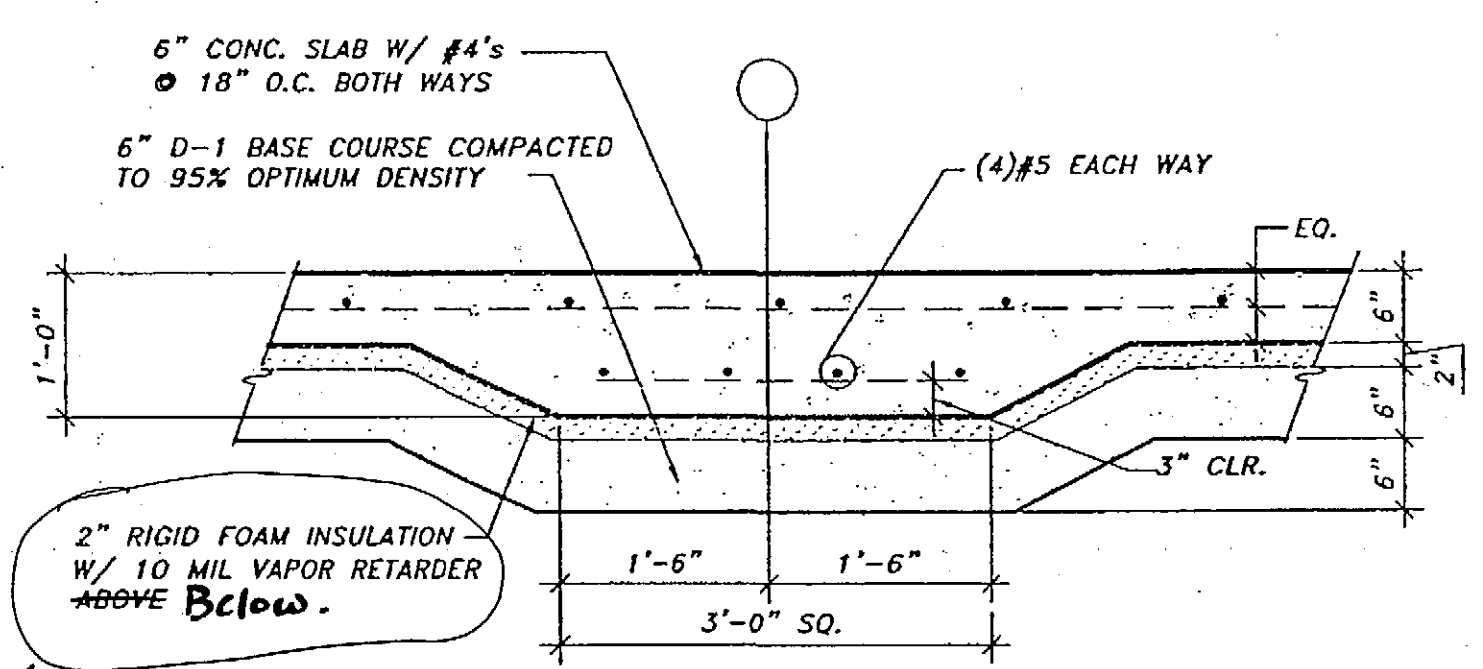
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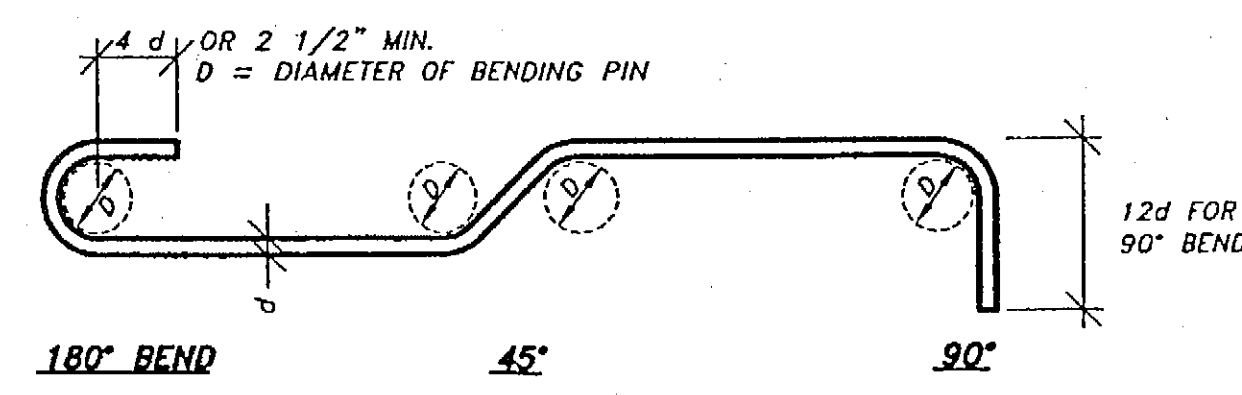
4 TYPICAL ENDWALL PEDESTAL
SCALE: 0 6" 1' 2'



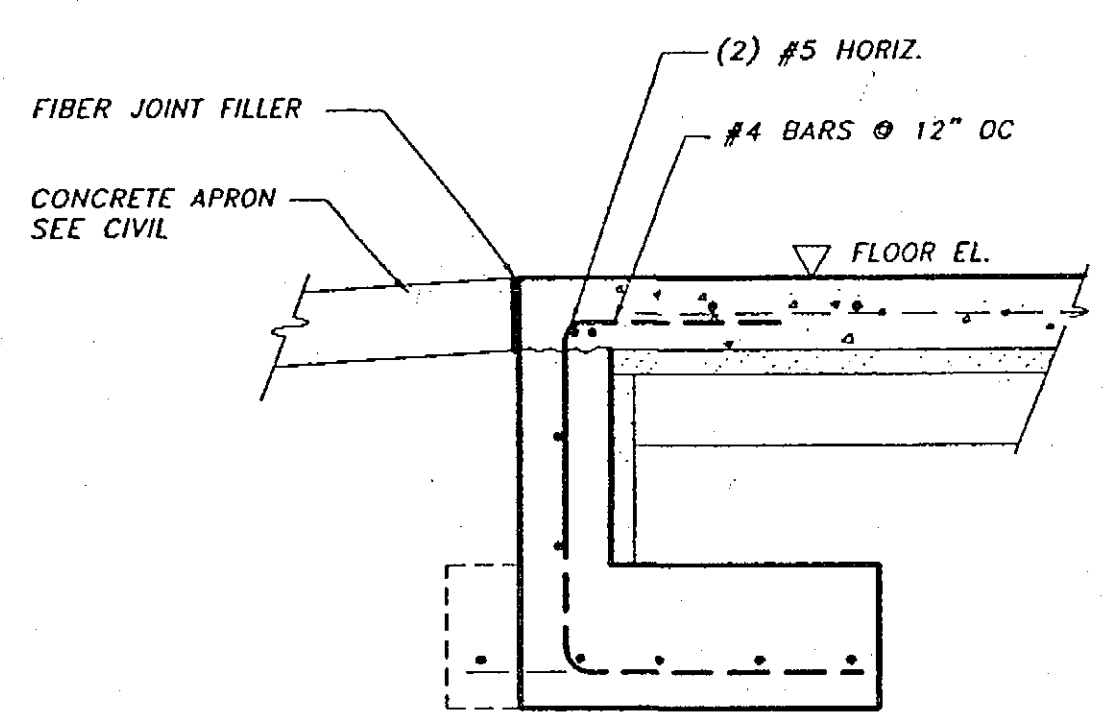
7 WALL REINF. @ CORNERS, INTERSECTIONS & SPLICES



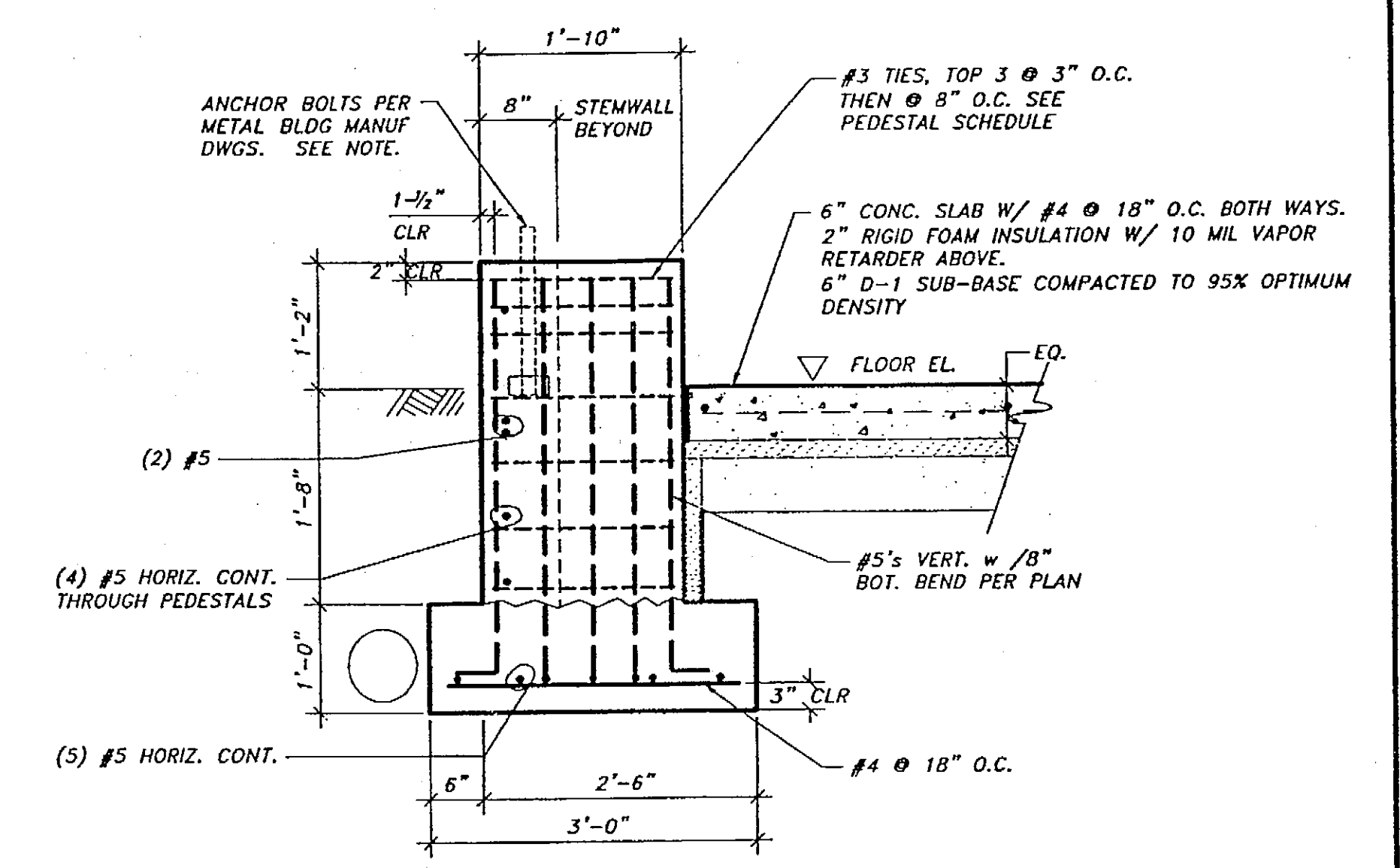
2 INTERIOR COLUMN FOOTING
SCALE: 0 6" 1' 2'



5 BAR BENDS

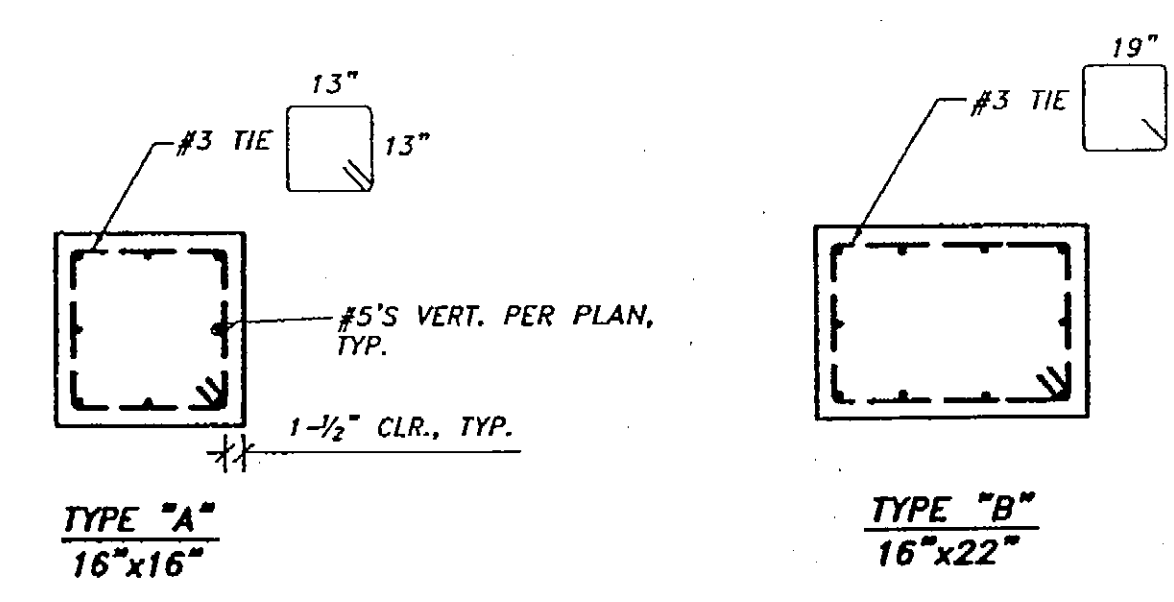


8 SECTION AT DOORWAY
SCALE: 0 6" 1' 2'



3 TYPICAL SIDEWALL PEDESTAL
SCALE: 0 6" 1' 2'

NOTE:
ANCHOR BOLTS:
3/4" # - 8" EMBED
1" # - 12" EMBED
1-1/2" # - 14" EMBED
ANCHOR BOLTS TO BE ASTM A-307, HEAVY HEX HEAD. LOCATE ANCHOR BOLTS BY MEANS OF A TEMPLATE; DO NOT HAND SET ANCHOR BOLTS.



6 PEDESTAL SCHEDULE
SCALE: 0 6" 1' 2'

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PATH:	DATE:	DESCRIPTION OF CHANGE:
BY:		

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

HOONAH
HOONAH AIRPORT SNOW REMOVAL
EQUIPMENT BUILDING
FOUNDATION DETAILS

ALASKA

DESIGNED BY: ADS	PROJECT NO. 68389 AIP 3-02-0125-0403
DRAWN BY: MRC	DATE: 11/17/03
CHECKED BY: ADS	SHEET S3 OF 39

PLANS DEVELOPED BY:
R&M ENGINEERING, INC.

NOTE:
DO NOT SCALE FROM THESE
PLANS - USE DIMENSIONS

ENGINEER'S SEAL