

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  
**ARFF VEHICLE BUILDING**  
WRANGELL ALASKA  
STATE PROJECT NUMBER 71845  
FEDERAL PROJECT NUMBER AIP 3-02-0323-0696

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STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
SOUTHEAST REGION  
DESIGN & CONSTRUCTION DIVISION

ARCHITECT  
STRUCTURAL ENGINEER  
CIVIL ENGINEER  
MECHANICAL / ELECTRICAL ENGINEER  
**UEKH**

COST CONSULTANT  
ESTIMATIONS


RECORD DRAWINGS

6860 GLACIER HWY., JUNEAU, ALASKA 99801-7999  
(907) 465-1799

**"AS BUILT"**

CONTRACTOR: *Johnson Construction & Supply*  
PROJECT ENGINEER: *Bob Grund*  
START DATE: *July 12, 1996*  
END DATE: *July 28, 1997*

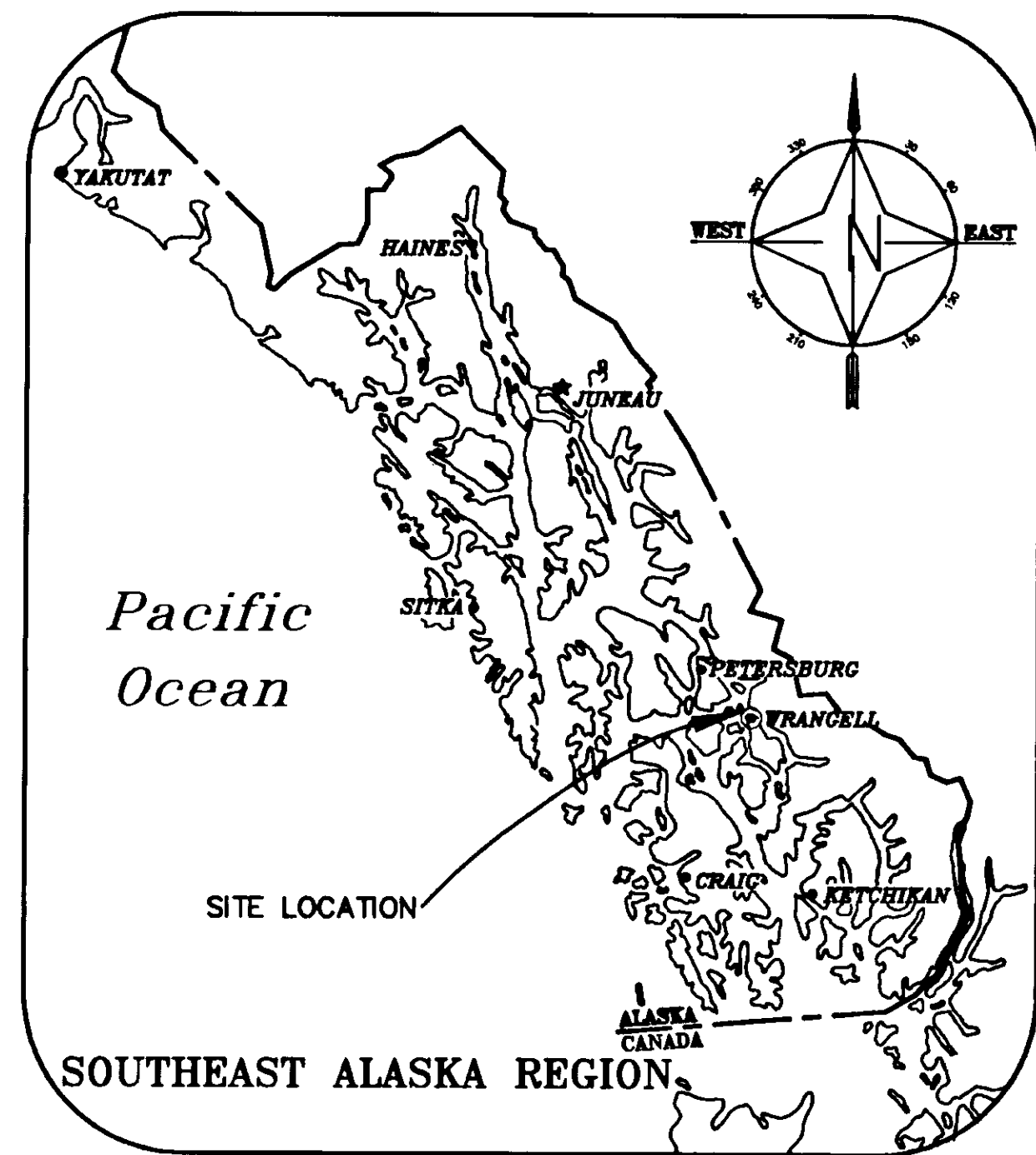
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BY   
DATE *11-7-97*

3017 CLINTON DRIVE, STE. 201 JUNEAU, ALASKA 99801-7106  
(907) 790-2901

1205 E. INTERNATIONAL AIRPORT RD., STE. 207 ANCHORAGE, ALASKA 99518 -1010  
(907) 561-0790

# LOCATION MAP



# SYMBOLS

	WOOD, FINISH		WOOD, FRAMING CONT. MEMBER
	CMU		WOOD, FRAMING BLOCKING
	CONCRETE		COLUMN LINE ORIENT POINT OF HEXAGONS TO COLUMN LINE. LETTERS IN ONE DIRECTION NUMBERS IN THE OTHER DIRECTION
	EARTH		PLAN MATCH LINE
	GLASS OMIT IND. IN THIN MATERIAL		DOOR SYMBOL DOOR NUMBER
	GYPSUM BOARD OMIT DBL. LINES AT SMALL SCALE		WINDOW TYPE
	INSULATION, BATT/ LOOSE FILL		LOWER TYPES SKIP LETTERS 'I' AND 'O'
	INSULATION, RIGID		REVISION CLOUD AROUND REVISION
	METAL HATCHING OMITTED IN THIN MATERIAL		WORK POINT, CONTROL POINT OR ELEVATION
	MORTAR		WALL TYPE
	PLYWOOD-LARGE SCALE		ELEVATION DESIGNATION
	PLYWOOD-SMALL SCALE		ELEVATION IDENTIFICATION (UNFOLD ELEVATIONS CLOCKWISE. NO ARROWS MEANS ELEVATION NOT SHOWN) SHEET WHERE ELEVATION IS DRAWN
	SECTION IDENTIFICATION SHEET WHERE SECTION IS DRAWN		ROOM IDENTIFICATION ROOM NAME ROOM NO.
	DETAIL IDENTIFICATION SHEET WHERE DETAIL IS DRAWN		

# ABBREVIATIONS

∅	AND	F.E.C.	FIRE EXTINGUISHER	FB.	FIBER BOARD
L	ANGLE	FIRE	CABINET	P.C.C.	PORTLAND CEMENT CONCRETE
⊙	AT	F.H.C.	FIRE HOSE	P.E.	POLYETHYLENE
⊙	CENTERLINE	F.F.	CABINET	PL.	PLATE
⊙	DIAMETER	F.F.	FINISH FLOOR /	PLAM.	PLASTIC LAMINATE
⊙	FOUND OR NUMBER	F.F.	FACTORY FINISH	PLAS.	PLASTER
		F.F.	FINISH GRADE	PLYND.	PLYWOOD
ACT	ACOUSTICAL	FIN.	FINISH	PR.	PAIR
	CEILING TILE	FL.	FLOOR	PT.	PAINT
AB.	ANCHOR BOLT	FLASH.	FLASHING	P.T.D.	PAPER TOWEL
AD.	AREA DRAIN	FLUOR.	FLUORESCENT	DISPENSER	DISPENSER
ADJ.	ADJUSTABLE	F.O.C.	FACE OF CONCRETE	COMBINATION PAPER	TOWEL DISPENSER
AFF.	ABOVE FINISH FLOOR	F.O.F.	FACE OF FINISH	4 RECEPTACLE	POLYVINYL CHLORIDE
AGGR.	AGGREGATE	F.O.S.	FACE OF STUD		
AL.	ALUMINUM	FPRF.	FIREPROOF		
APPROX.	APPROXIMATE	FRP.	FIBERGLASS REINFORCED PANEL		
ARCH.	ARCHITECTURAL	F.S.	FINISH SURFACE		
ASB.	ASBESTOS	FT.	FOOT OR FEET		
ASPH.	ASPHALT	FTG.	FOOTING		
		FURR.	FURRING		
		FUT.	FUTURE		
BD.	BOARD	GA	GAUGE	R.	RISER
BITUM.	BITUMINOUS	GA.	GALVANIZED	RAD.	RADIUS
BLDG.	BUILDING	GB.	GRAB BAR	RD	ROOF DRAIN
BLK.	BLOCK	GB.	GALVANIZED	RE	RIM ELEVATION
BLKS.	BLOCKING	GI.	IRON	REF	REFRIGERATOR
BM.	BEAM	GL.	GLASS	RSTR.	REGISTERED
BOT.	BOTTOM	GLB.	GLUE LAMINATED	REIN.	REINFORCED
B.W.	BOTTOM OF WALL	GLB.	GLUE LAMINATED	REQ.	REQUIRED
		GRD.	GROUND	RESIL.	RESILIENT
CAB.	CABINET	GR.	GRADE	RM.	ROOM
CANT.	CANTILEVER	GR.	GRADE	R.O.	ROUGH OPENING
C.	CHANNEL	GYP.	GYPSUM	RT	RIGHT
C.B.	CHALK BOARD	G.W.B.	GYPSUM WALL BOARD	R.W.L.	RAINWATER LEADER
CEN.	CEMENT				
CT.	CERAMIC TILE	H.B.	HOSE BIB	S.	SOUTH
C.I.	CAST IRON	H.C.	HOLLOW CORE	S.C.	SOLID CORE
C.S.	CORNER GUARD	H.C.	HEAD	S.C.D.	SEAT COVER
CLS.	CEILING	HD.	HARDWARE	DISPENSER	DISPENSER
CLKS.	CAULKING	HD.	HARDWOOD	SCHEDULE	SCHEDULE
CLO.	CLOSET	H.M.	HOLLOW METAL	SELF ADHERING	MEMBRANE
CLR.	CLEAR	H.P.	HIGH POINT	MEMBRANE	MEMBRANE
C.O.	CASED OPENING	HORIZ.	HORIZONTAL	SECT.	SECTION
COL.	COLUMN	HR.	HOUR	SH.	SHelf
CONC.	CONCRETE	HT.	HEIGHT	SHR.	SHOWER
CONN.	CONNECTION			SHT.	SHEET
CONSTR.	CONSTRUCTION	I.D.	INSIDE DIAMETER	SIM.	SIMILAR
CONT.	CONTINUOUS	IE	INVERT ELEVATION	S.N.D.	SANITARY NAPKIN
CORR.	CORRIDOR	I.M.	INSULATED METAL	DISPENSER	DISPENSER
CPT.	CARPET	INFO.	INFORMATION	RECEPTACLE	RECEPTACLE
CTR.	CENTER	INSUL.	INSULATION	INTERIOR	INTERIOR
CTSK.	COUNTERSINK	INT.	INTERIOR		
CNTR.	COUNTER	JAN.	JANITOR	JAMB	JAMB
C.M.B.P.	COMPOSITE METAL BUILDING PANEL	JT.	JOINT	KIT.	KITCHEN
C.M.R.S.	COMPOSITE METAL ROOF SYSTEM			LAB.	LABORATORY
CMU	CONCRETE MASONRY UNIT			LAM.	LAMINATE
				LAV.	LAVATORY
DBL.	DOUBLE			LKR.	LOCKER
DEPT.	DEPARTMENT			LLH.	LONG LEG HORIZONTAL
D.F.	DRINKING FOUNTAIN			LLV.	LONG LEG VERTICAL
DET.	DETAIL			LT.	LEFT
D.I.	DUCTILE IRON			L.P.	LOW POINT
DIA.	DIAMETER			LSD	LIQUID SOAP DISPENSER
DIM.	DIMENSION				
DISP.	DISPENSER			MATL.	MATERIAL
DN.	DOWN			MAX.	MAXIMUM
DR.	DOOR			M.B.	MACHINE BOLT
DWR.	DRAWER			M.C.	MECHANICAL CABINET
DS.	DOWNSPOUT			MECH.	MECHANICAL
D.SP.	DRYSTANDPIPE			MEMB.	MEMBRANE
DWS.	DRAINING			MET.	METAL
				MFR.	MANUFACTURER
E.	EAST			MH.	MANHOLE
EA.	EACH			MIN.	MINIMUM
E.J.	EXPANSION JOINT			MIR.	MIRROR
ES.	EACH SIDE			MISC.	MISCELLANEOUS
E.M.	EACH WAY			M.O.	MASONRY OPENINGS
EL.	ELEVATION			M.TD.	MOUNTED
ELEC.	ELECTRICAL			MUL.	MULLION
ELEV.	ELEVATOR			MTP.	METAL TOILET PARTITION
EMER.	EMERGENCY			N.	NORTH
ENCL.	ENCLOSURE			N.I.C.	NOT IN CONTRACT
EP.	ELECTRICAL PANELBOARD			NO.	NUMBER
				NOM.	NOMINAL
EQ.	EQUAL			N.T.S.	NOT TO SCALE
EQFT.	EQUIPMENT			O.A.	OVERALL
EH	EYE WASH			O.C.	ON CENTERS
E.H.C.	ELECTRIC WATER COOLER			O.D.	OUTSIDE DIAMETER
EXIST. (E)	EXISTING			OFF.	OFFICE
EXPO.	EXPOSED			O.F.C.I.	OWNER FURNISHED CONTRACTOR
EXP.	EXPANSION			O.F.O.I.	OWNER FURNISHED CONTRACTOR
EXPS.	EXTRUDED POLYSTYRENE			OPNS.	OPENING
EXT.	EXTERIOR			OPF.	OPPOSITE
				ORD.	OVERFLOW ROOF DRAIN
F.A.	FIRE ALARM				
F.B.	FLAT BAR				
F.D.	FLOOR DRAIN				
F.E.	FIRE EXTINGUISHER				

# CODE REVIEW

REFERENCE CODE: 1991 UNIFORM BUILDING CODE (U.B.C.)

## CLASSIFY THE BUILDING

A. OCCUPANCY CATEGORY  
CHAPTER 5 AND TABLE NO. 23-K & 25-L.  
FIRE STATION = ESSENTIAL FACILITY

B. OCCUPANCY CLASSIFICATION:  
CHAPTER 5, TABLE NO. 5-A.  
FIRE STATION = B2

C. TYPE OF CONSTRUCTION = I/N

D. LOCATION ON PROPERTY:  
SEPARATION ON ALL SIDES

E. ALLOWABLE FLOOR AREA:  
CHAPTER 5, TABLE NO. 5-C:  
B-2, I/N = 8,000 S.F.  
SEPARATE 4 SIDES = 8,000 S.F.  
ALLOWABLE AREA = 16,000 S.F.  
ACTUAL AREA = 5,846 S.F.

F. HEIGHT AND NUMBER OF STORIES:  
CHAPTER 5, TABLE NO. 5-D:  
B-2, I/N = 2 STORIES  
ACTUAL = 1 STORY  
MAXIMUM HEIGHT = 40 FEET  
ACTUAL HEIGHT = > 27 FEET

G. EXITS REQUIRED:  
CHAPTER 5, TABLE 55A:  
ALL OTHER, 2 EXITS > 50 AND 100 S.F./OCC.  
5,846 S.F. = 54 OCC. < 50 = 1 EXIT  
100 S.F.

ACTUAL NUMBER OF EXITS = 4

# GENERAL NOTES

1. ALL DETAILS IN THIS CONTRACT DOCUMENT SET ARE CONSIDERED TYPICAL UNLESS NOTED OTHERWISE. SIMILAR DETAILS OCCUR AT SIMILAR CONDITIONS.

2. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES BEFORE PROCEEDING WITH ANY WORK.

5. DESIGN LOADS:

ROOF:	SNOW	50 PSF + DRIFTING
SEISMIC:	ZONE IMPORTANCE	4, 1.25
WIND:	BASIC WIND SPEED EXPOSURE IMPORTANCE	100 MPH, D, 1.15

4. ALL DIMENSIONS ARE FACE OF STUD TO FACE OF STUD.

# SHEET INDEX

T1	TITLE SHEET
T2	INFORMATION SHEET
C1	LOCATION MAP, LEGEND, NOTES, AND SUMMARIES
C2	SITE PLAN
C3	WATER AND SEWER PLAN AND PROFILE (1 OF 2)
C4	WATER AND SEWER PLAN AND PROFILE (2 OF 2)
C5	SEWER PUMP STATION DETAILS
C6	SEWER LINE DETAILS
C7	WATER LINE DETAILS
C8	MISC. DETAILS
A1	FLOOR PLAN AND WALL TYPES
A2	EXTERIOR ELEVATIONS
A3	EXTERIOR ELEVATIONS
A4	BUILDING SECTIONS
A5	ROOF PLAN
A6	ROOF DETAILS
A7	DOOR/WINDOW SCHEDULE, ELEVATIONS AND DETAILS
A8	WINDOW, LOUVER AND MISC. DETAILS
A9	INTERIOR FINISH SCHEDULE AND ELEVATIONS
S1	FOUNDATIONS/SLAB PLAN
S2	FOUNDATION SECTIONS AND DETAILS
S3	SECTIONS AND DETAILS
M1	LEGEND AND SCHEDULES
M2	UNDERFLOOR PLUMBING PLAN
M3	PLUMBING PLAN
M4	HEATING AND VENTILATION PLAN
M5	MECHANICAL DETAILS
E1	LEGEND AND SCHEDULES

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BY:   
DATE: 11-2-97

Date Stamped:

By	HS
Revision	
Date	11/7/97
	RECORD DRAWINGS

**USKH**  
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Land Surveying • Planning

2515 'A' Street  
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1830 Second Ave.  
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(907) 452-2128  
800 W. Evergreen St., Ste. 218  
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(907) 746-7815

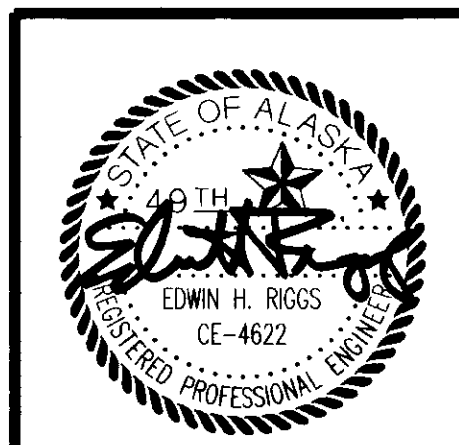
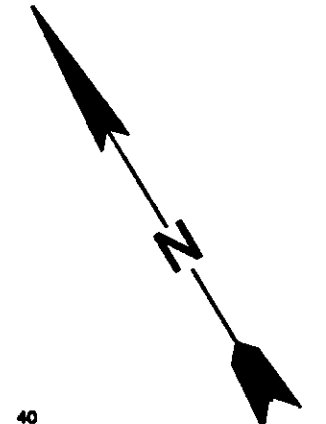
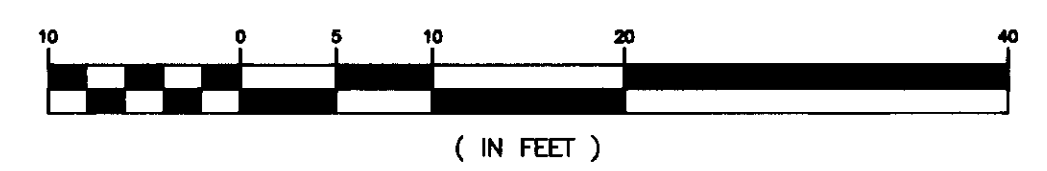
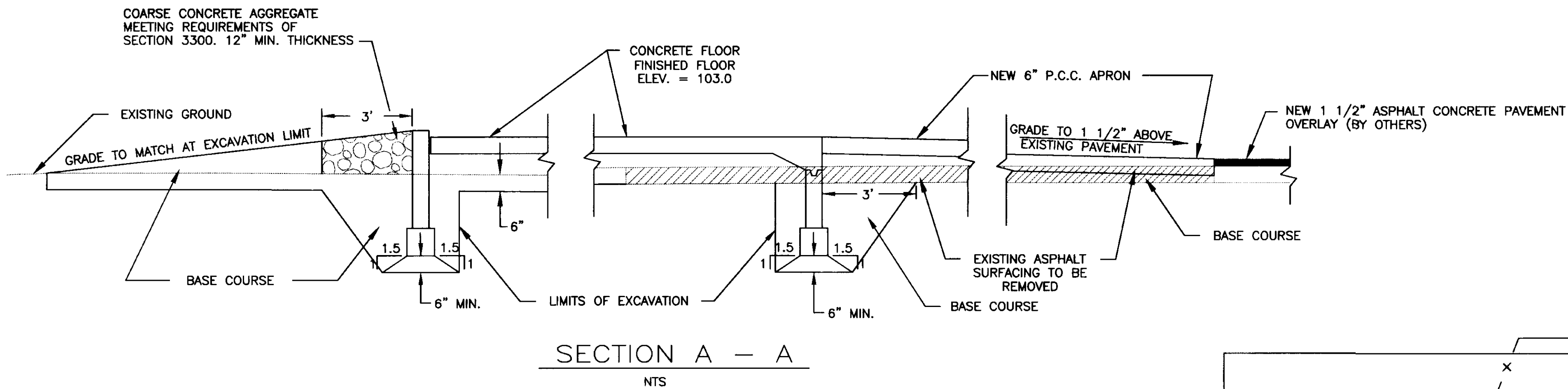
Project:  
**ARFF  
VEHICLE  
BUILDING**  
**WRANGELL,  
ALASKA**

Project Mgr.	L. MEARIS
Drawn	P.M.
Drawn	J.L.L.
Checked	POMCK J.H.
Date	4-15-96

Sheet Contents:  
**INFORMATION  
SHEET**

Sheet No.:

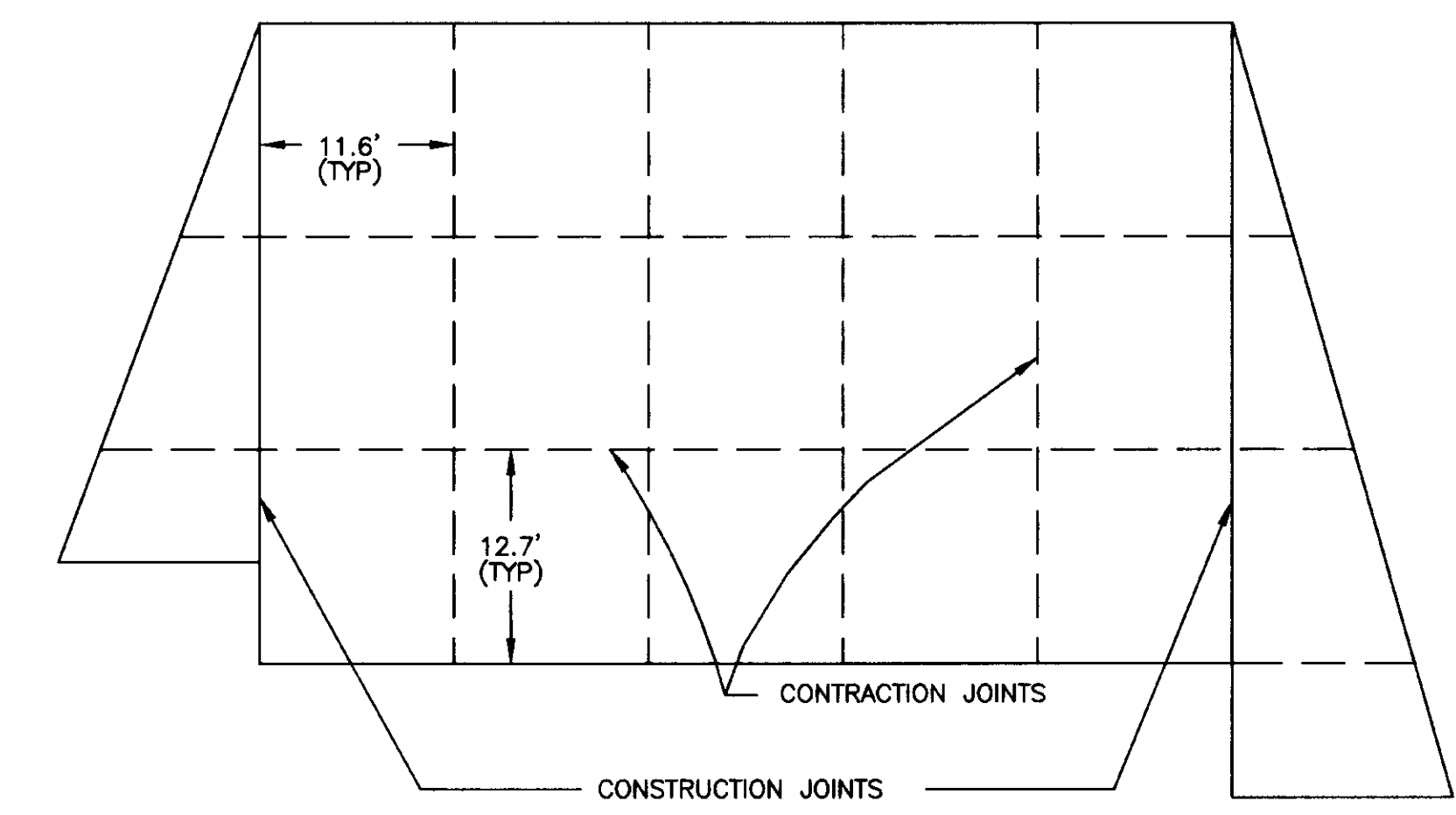




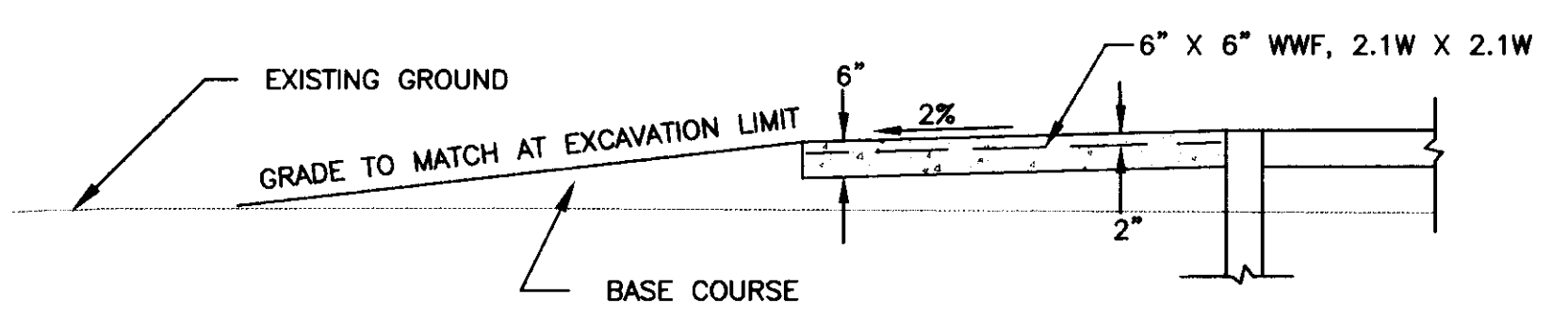
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Date Stamped: 15 APR 96



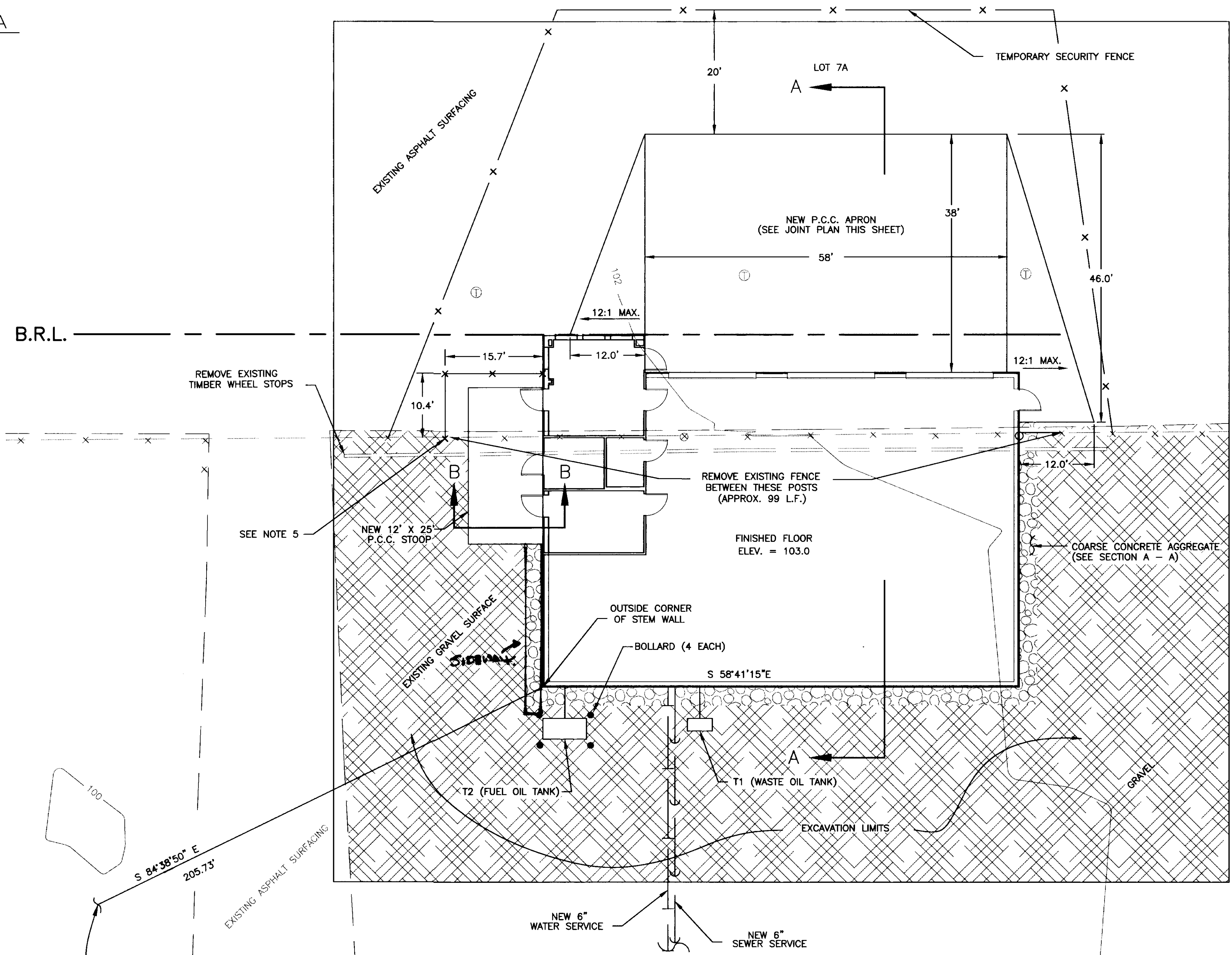
APRON JOINT PLAN  
SEE DETAILS ON SHEET C8



SECTION B - B  
NTS

**SITE PREP & CONSTRUCTION NOTES:**

1. REMOVE EXISTING ASPHALT SURFACING FROM NEW APRON AREA. EXCAVATE AND GRADE AS NECESSARY TO ALLOW CONSTRUCTION OF NEW APRON. FILL MATERIAL SHALL BE BASE COURSE.
2. REMOVE SECURITY FENCE AS SHOWN. INSTALL NEW FENCE POSTS AT OUTSIDE FACE OF NEW BUILDING AND AS SHOWN. CONSTRUCT NEW FENCE AND RECONSTRUCT EXISTING FENCE AS NECESSARY.
3. REMOVE EXISTING GRAVEL SURFACING TO 6" DEPTH WITHIN EXCAVATION LIMITS SHOWN. REPLACE WITH BASE COURSE. GRADE TO DRAIN FROM BUILDING FOUNDATION TO EXCAVATION LIMIT, ADDING BASE COURSE AS NECESSARY.
4. INSTALL NEW WATER AND SEWER SERVICE LINES AT 4' MIN. BURY DEPTH.
5. INSTALL HANDICAPPED PARKING SIGN (R7-B) ON FENCE AT LOCATION SHOWN, 60" ABOVE FINISHED GROUND IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND 4.30 ADAAG CODE.



By	
Revision	
Date	

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Palmer, Alaska 99645  
(907) 746-7815

Project:  
**ARFF  
VEHICLE  
BUILDING**  
**WRANGELL,  
ALASKA**

Project Mgr.	L. MEARIG
Drawn	CMB
Checked	DLM
Date	April 15, 1996

Sheet Contents:  
**SITE PLAN**

Sheet No.:



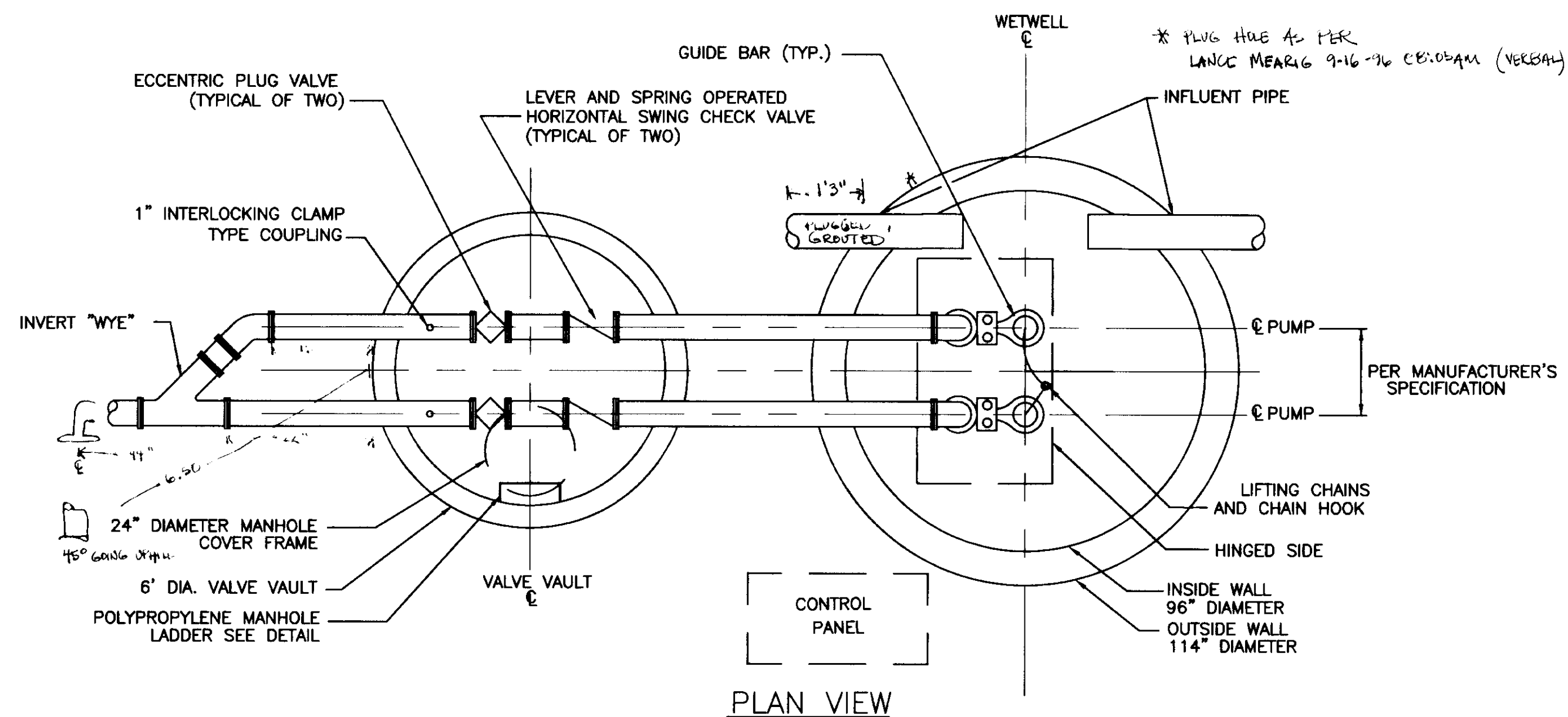




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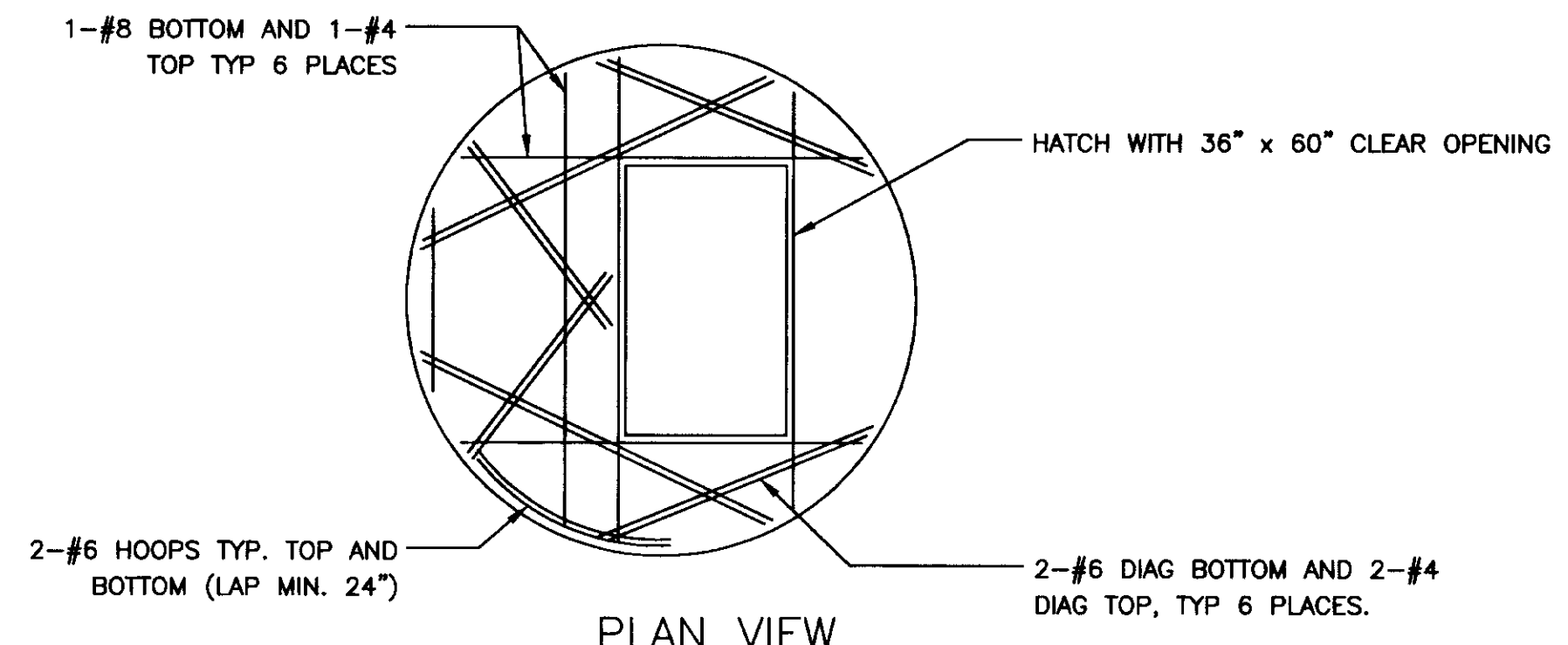


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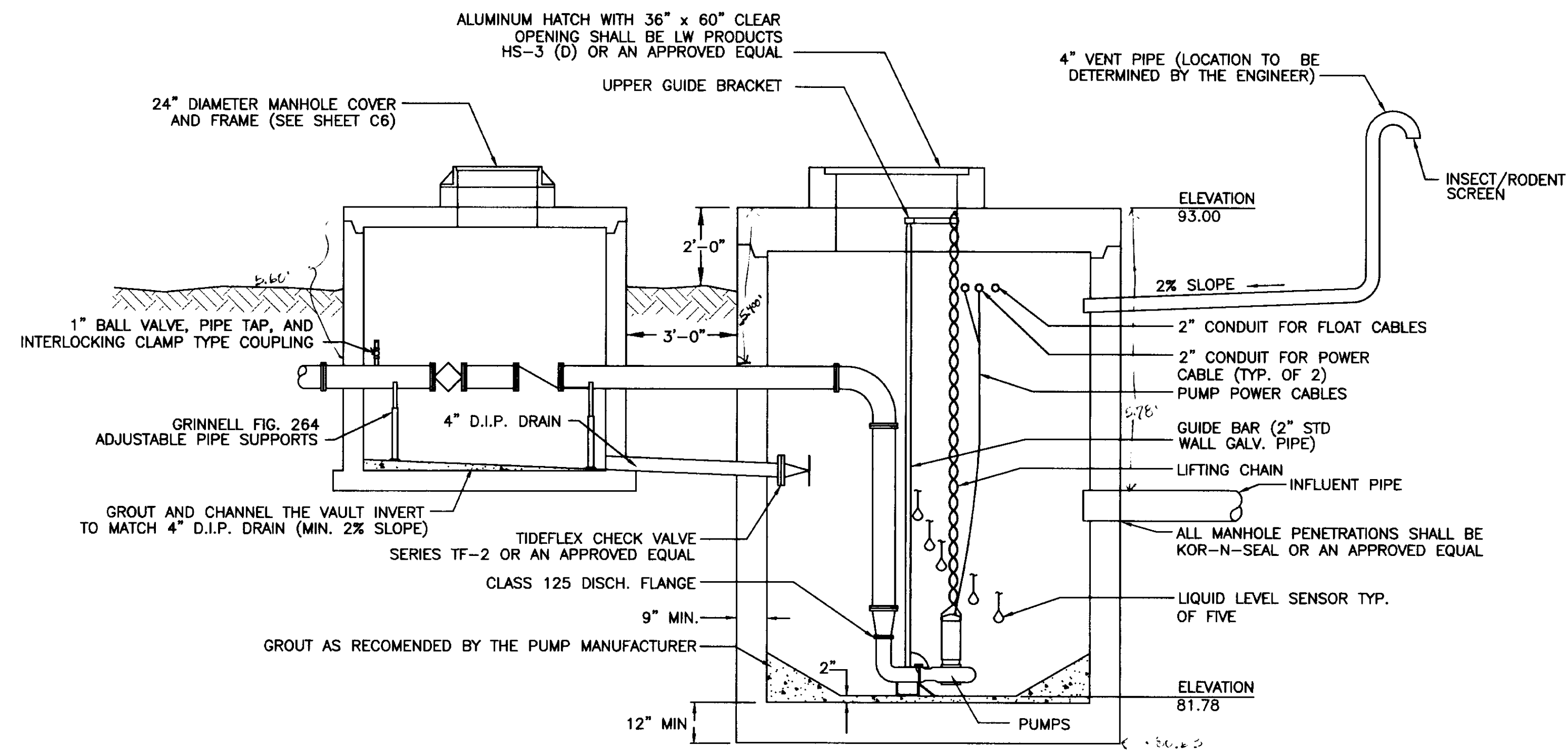


PLAN VIEW

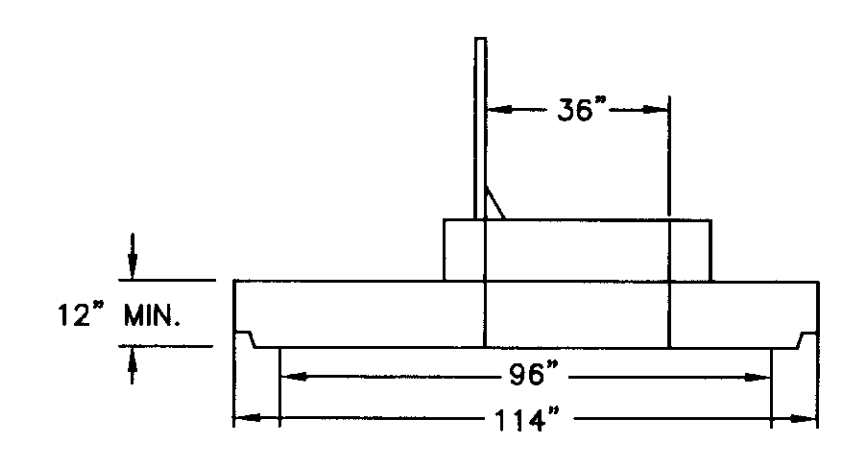
NOTE:  
COVER SHALL BE REINFORCED WITH #6 @5" BOTTOM AND #4 @7" TOP. PROVIDE A MINIMUM OF #4 @12" TOP AND BOTTOM PERPENDICULAR TO MAIN REINFORCEMENT. REINFORCING COVER SHALL BE 2-INCHES CLEAR AT TOP AND BOTTOM SURFACES.



PLAN VIEW



ELEVATION VIEW

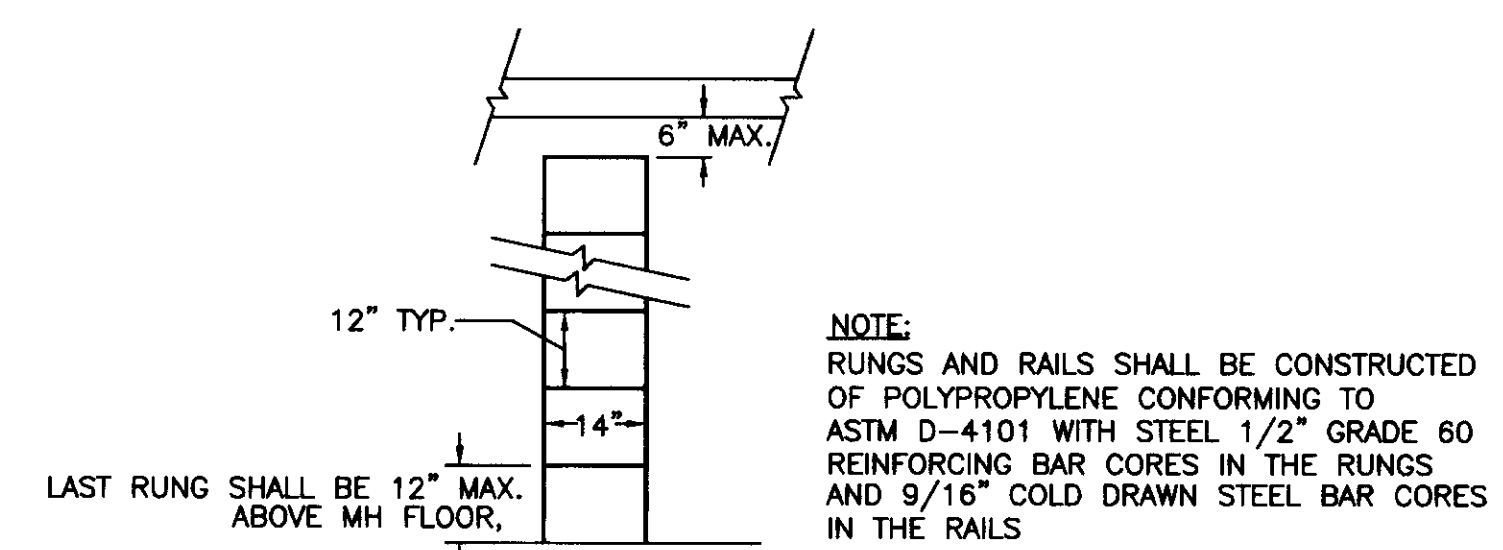


ELEVATION VIEW

WETWELL COVER

- NOTES:
1. MANHOLE EXTERIOR JOINT WATERPROOFING SHALL BE THE MIRADRI SYSTEM BY MIRIFI, INC., OR AN APPROVED EQUAL.
  2. WETWELL AND VAULT PENETRATIONS SHALL CONFORM TO MANHOLE CONNECTION DETAIL ON SHEET C6
  3. WETWELL INTERIOR SHALL BE SPRAYED WITH 80 MIL. "POLYSHIELD SS-100"

PUMP STATION DETAIL



ELEVATION VIEW

VAULT LADDER DETAIL

By	
Revision	
Date	

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Fairbanks, Alaska 99701  
(907) 452-2128  
809 S. Chugach St.  
Palmer, Alaska 99645  
(907) 746-7815

Project:  
**ARFF VEHICLE BUILDING**  
**WRANGELL, ALASKA**

Project Mgr.	L. MEARIG
Drawn	C.M.B.
Checked	D.L.M.
Date	April 15, 1996

Sheet Contents:  
**SEWER PUMP STATION DETAILS**

Sheet No.:

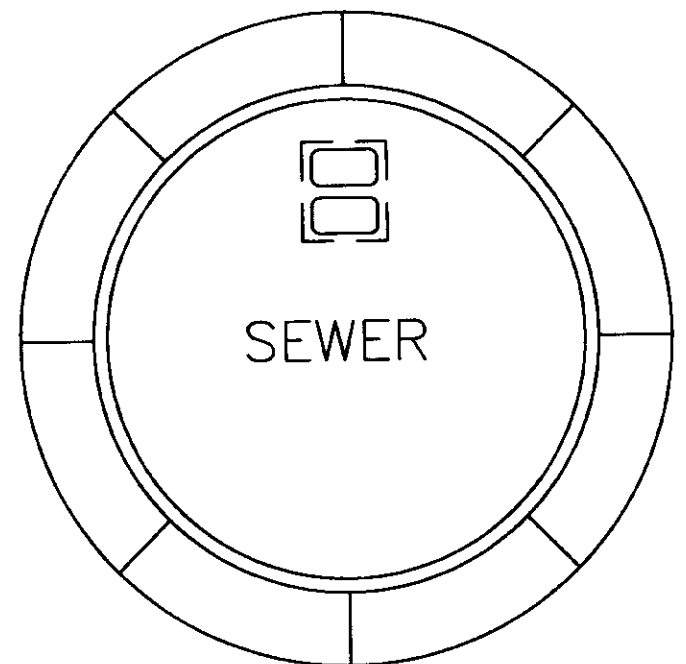
PUMP STATION ELEVATIONS						
WET WELL		LIQUID LEVEL SENSORS			FORCE MAIN	INFLUENT
LOW	BOTH	LEAD	LAG	HIGH		



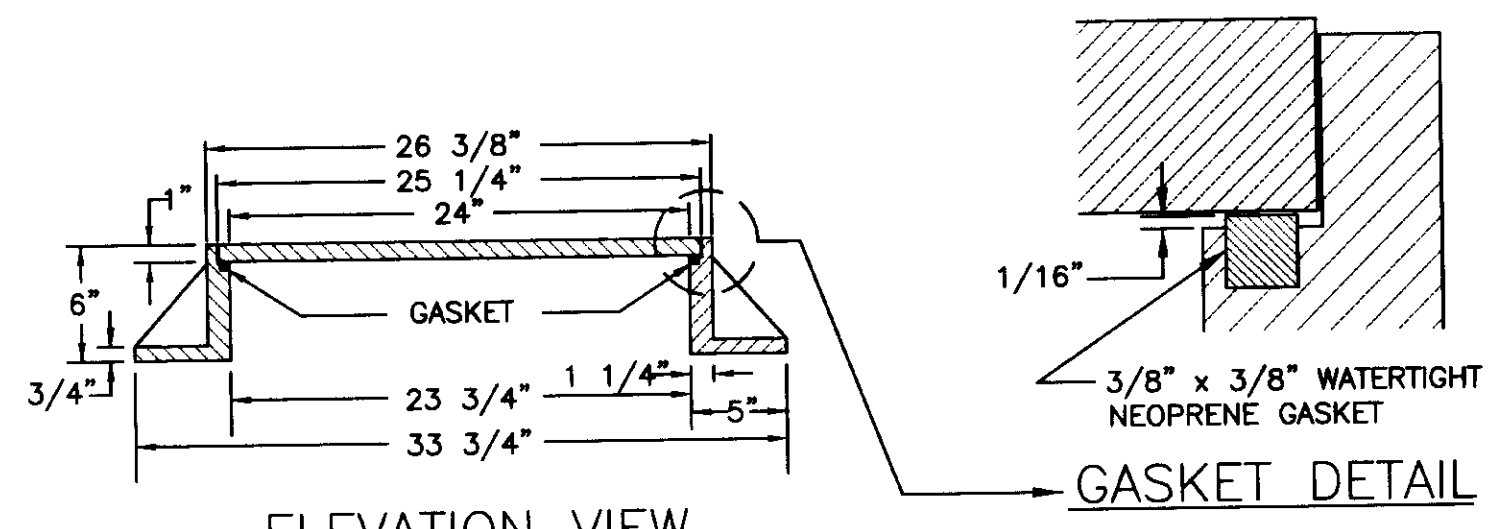
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Date Stamped: 15 APR 96



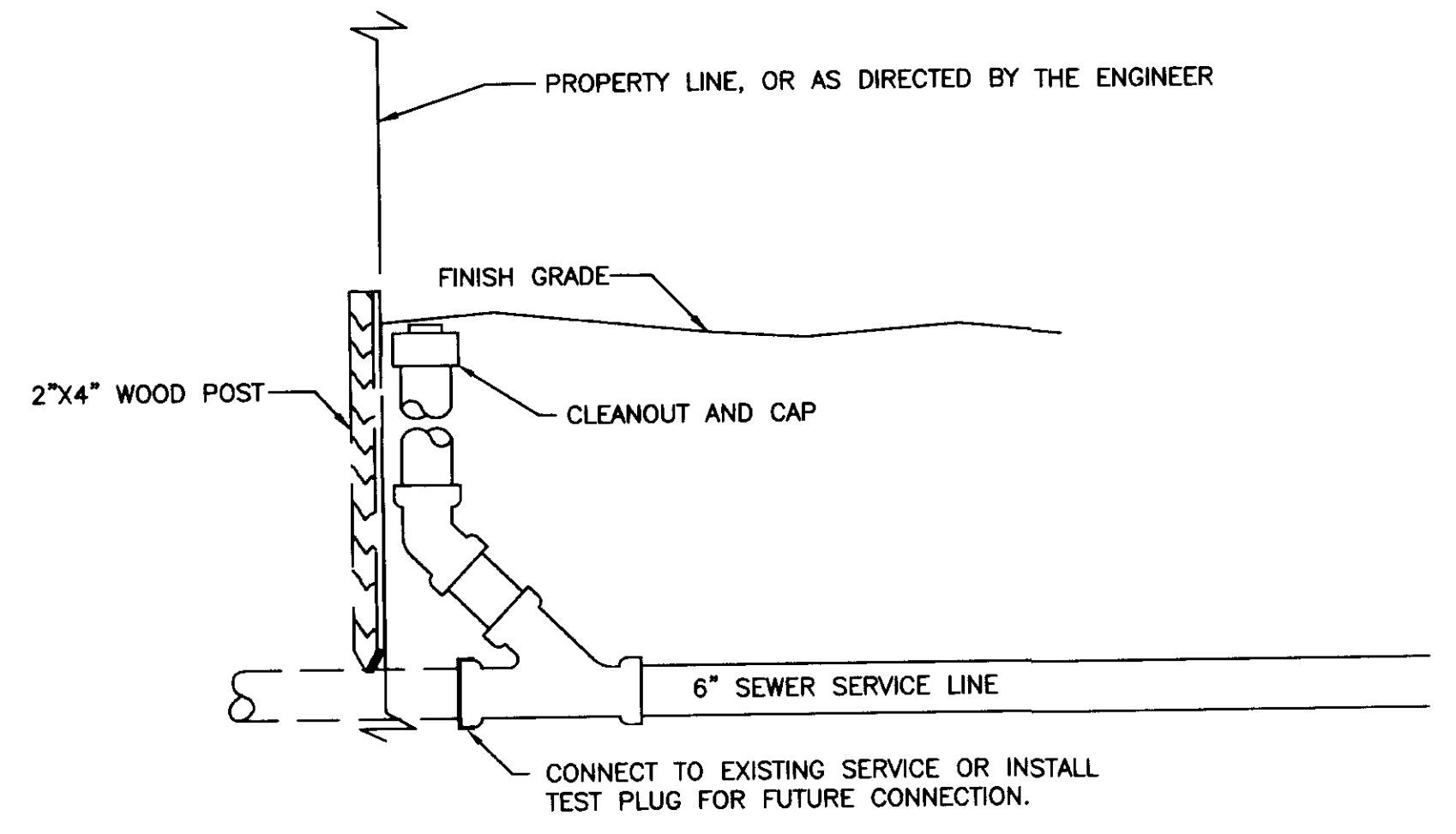
PLAN VIEW



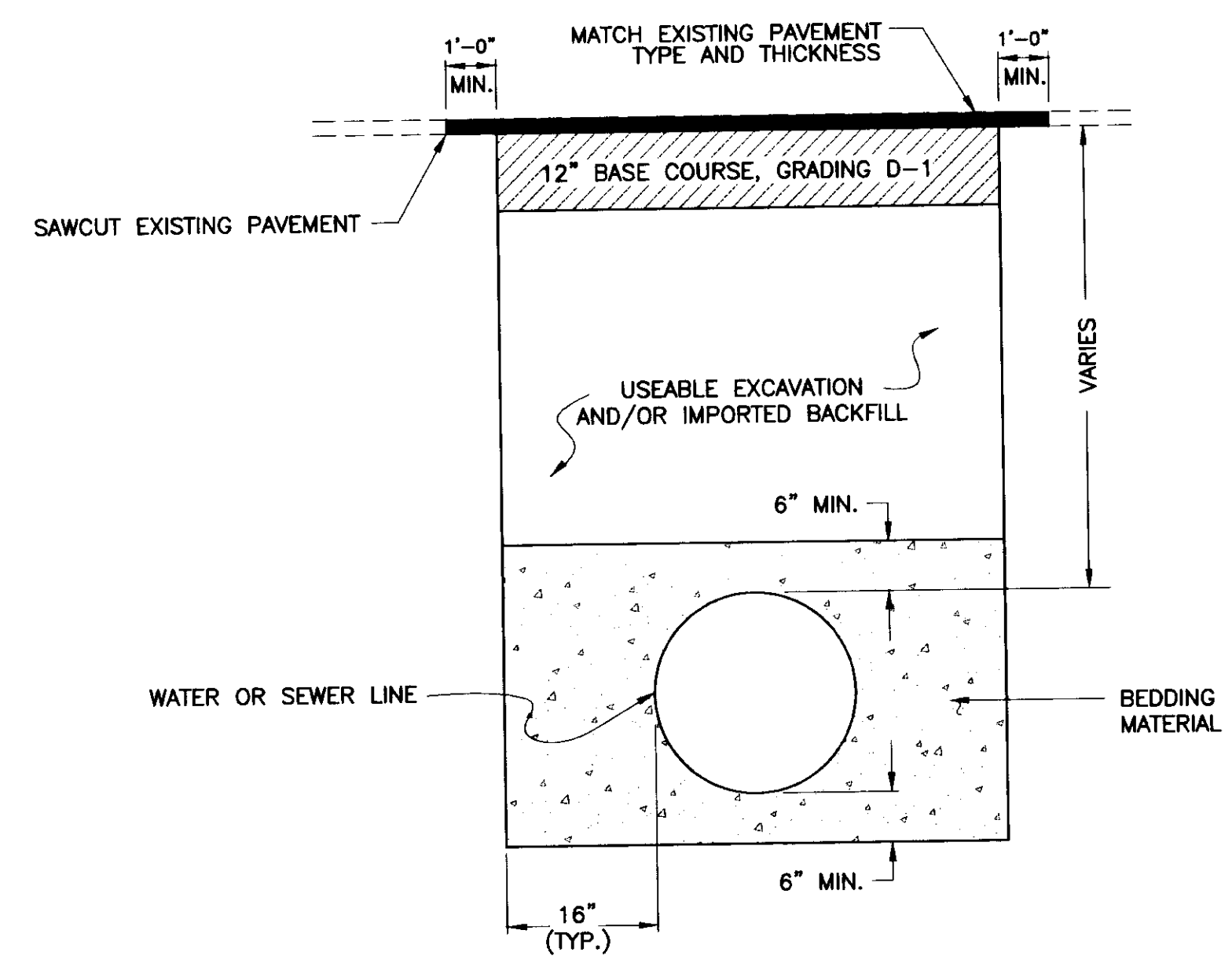
ELEVATION VIEW

- NOTES
1. FRAME MUST BE MACHINED TO FIT WATERTIGHT NEOPRENE GASKET.
  2. COVER SHALL HAVE THE WORD "SEWER" CAST IN AND SHALL BE PROVIDED WITH AN INTEGRAL POCKET LIFT HANDLE.
  3. FRAME AND COVER DIMENSIONS SHALL BE IN ACCORDANCE WITH INLAND FOUNDRY NO. 743, OR AN APPROVED EQUAL.
  4. FRAME AND GRATE SHALL BE CAST IRON.

SANITARY SEWER MANHOLE COVER & FRAME

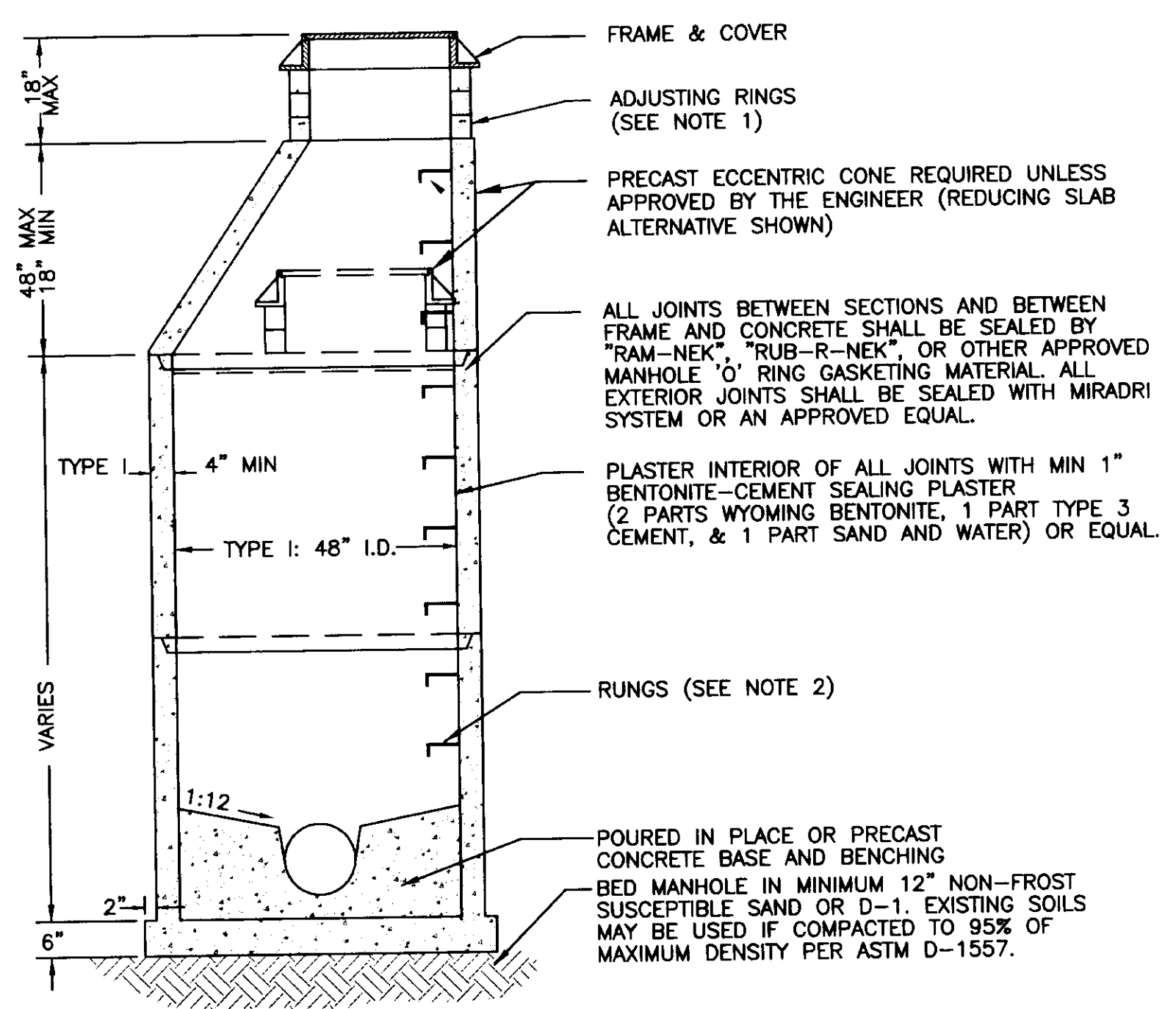


SANITARY SEWER SERVICE CLEANOUT

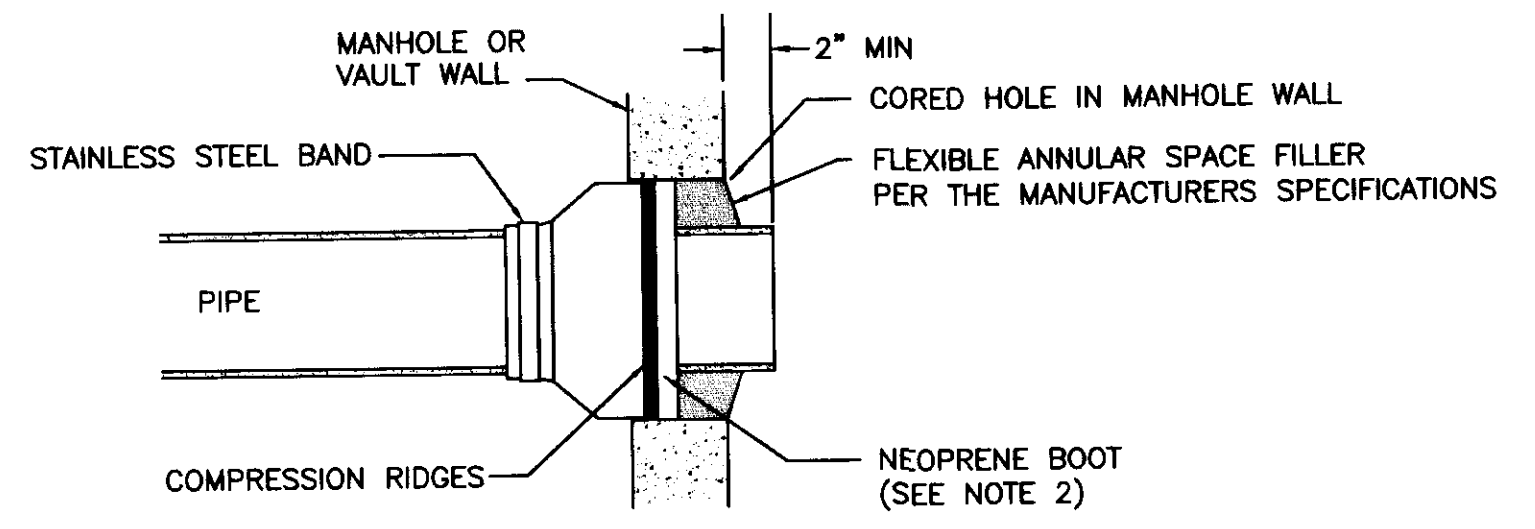


NOTE:  
ALL TRENCHES CUT THROUGH EXISTING PAVEMENT SHALL BE PATCHED BY THE END OF THE FINAL SHIFT ON FRIDAY OF THE WEEK THE TRENCH WAS EXCAVATED.

TYPICAL TRENCHING & PAVEMENT PATCH DETAIL

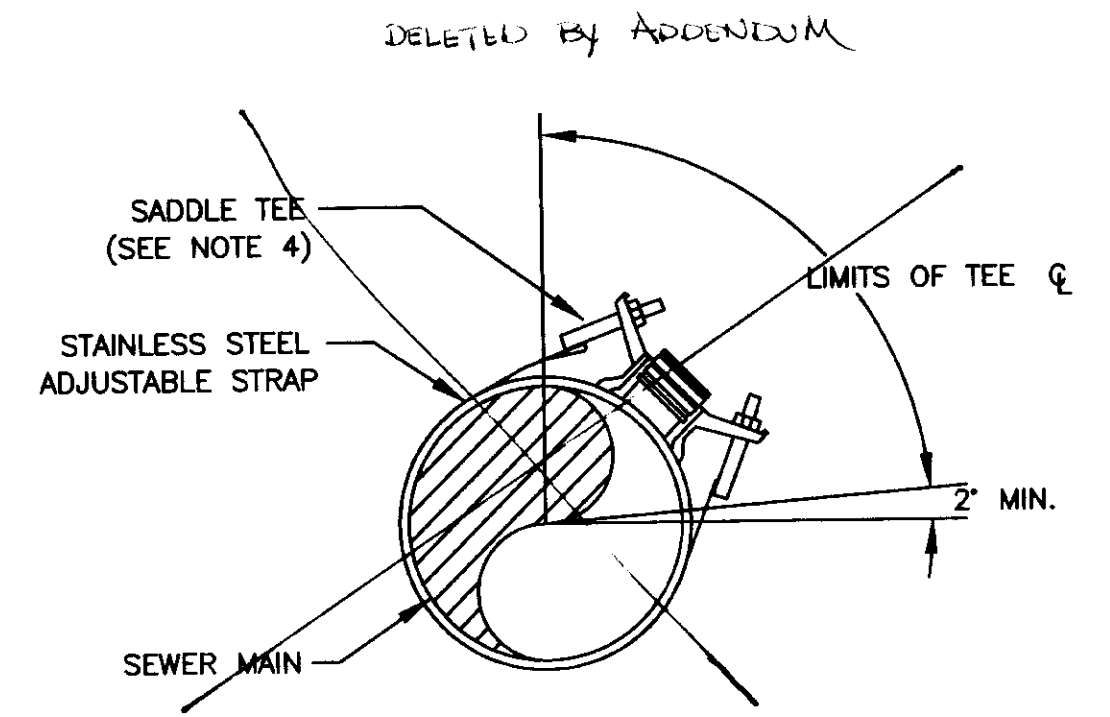


- NOTES
1. USE NO MORE THAN ONE 4" ADJUSTING RING ON NEW CONSTRUCTION ON UNPAVED ROADS, AND NO MORE THAN THREE 4" RINGS ON RECONSTRUCTIONS.
  2. RUNGS TO BE PLACED 12" O.C. ON UNOBSTRUCTED SIDE OF MANHOLE. LAST RUNG SHALL BE 18" MAX FROM BOTTOM OF MANHOLE, AND TOP RUNG SHALL BE 6" MAXIMUM FROM TOP OF CONE.
  3. REFER TO A.S.T.M. C-478 FOR DESIGN REQUIREMENTS AND C-478-89 FOR MINIMUM STEEL FOR BARREL. FIRST



- NOTES
1. ALL MANHOLE CONNECTIONS SHALL BE 100% WATERTIGHT
  2. NEOPRENE BOOT ON THE FLEXIBLE SEAL ADAPTER SHALL BE A MINIMUM OF 3/8" THICK PER ASTM C-443, AND SHALL BE HELD IN PLACE WITH AN INTERNAL EXPANDING BAND SUCH AS "KOR-N-SEAL" OR APPROVED EQUAL.

MANHOLE CONNECTION DETAIL FLEXIBLE SEAL ADAPTER



- NOTES:
1. DIAMETER OF HOLE CUT IN SEWER MAIN SHALL NOT EXCEED 0.25" LARGER THAN THE SADDLE TEE CONNECTION. TEE SHALL BE CENTERED OVER CUT IN PIPE AND CLAMPED WITH METAL BAND SO TEE GASKET FORMS A WATER-TIGHT SEAL.
  2. WATER AND DEBRIS SHALL NOT BE ALLOWED TO ENTER THE SEWER MAIN DURING THE TAPPING OPERATION.
  3. MEASURED TIES TO SADDLES MUST BE FURNISHED TO THE CITY.
  4. SADDLE TEE SHALL BE A ROMAC OR SEWER SADDLE OR AN APPROVED EQUAL.

SANITARY SEWER SADDLE TEE

By	
Revision	
Date	

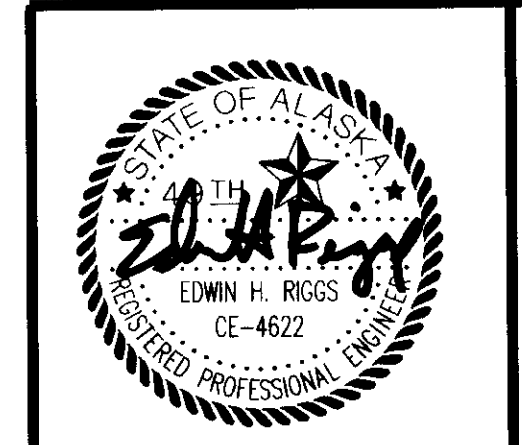
**U&M**  
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Project:  
**ARFF  
VEHICLE  
BUILDING**  
**WRANGELL,  
ALASKA**

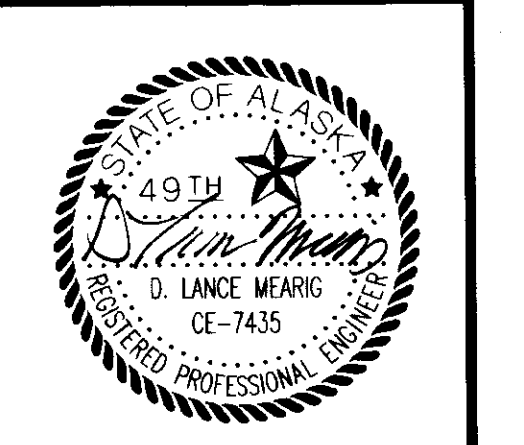
Project Mgr.	L. MEARIG
Drawn	C.M.B.
Checked	D.L.M.
Date	April 15, 1996

Sheet Contents:  
**SEWER  
LINE  
DETAILS**

Sheet No.:



Date Stamped: 4/15/96



Date Stamped: 15 APR 96

By	
Revision	
Date	

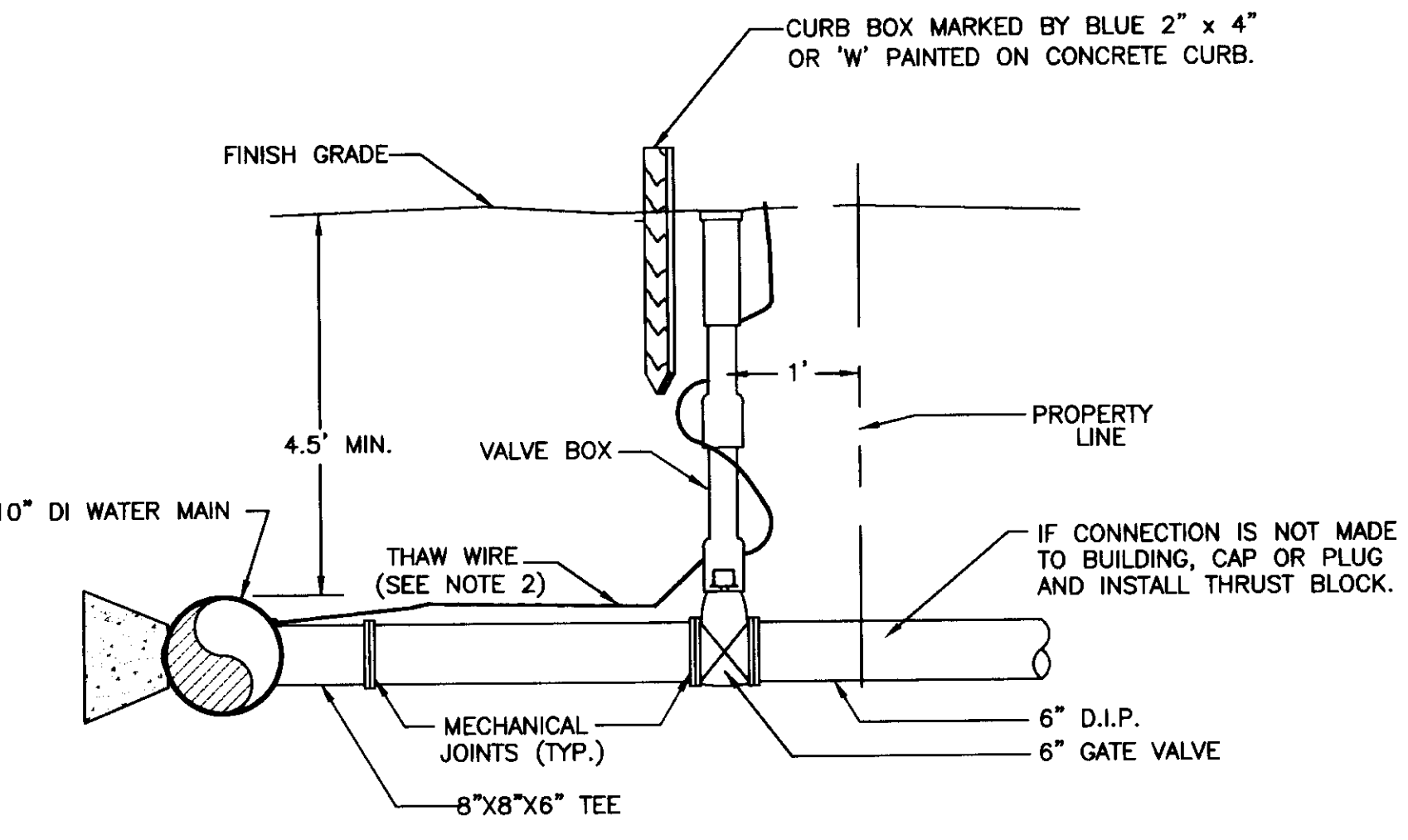
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Project:  
**ARFF VEHICLE BUILDING**  
**WRANGELL, ALASKA**

Project Mgr.	L. MEARIG
Drawn	C.M.B.
Drawn	
Checked	D.L.M.
Date	April 15, 1996

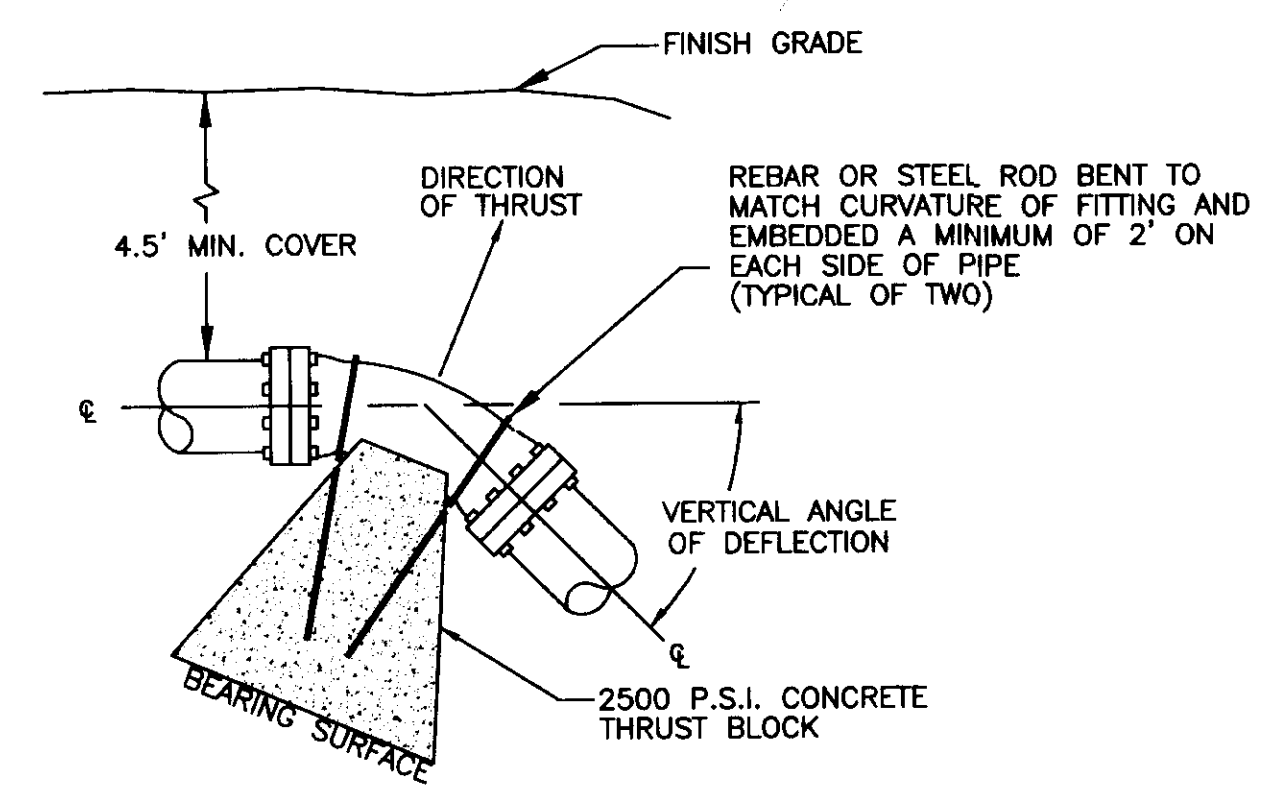
Sheet Contents:  
**WATER LINE DETAILS**

Sheet No.:



- NOTES:**
1. AT SERVICE VALVE CONNECT TO EXISTING LINE OR MARK CURB BOX WITH BLUE 2" X 4" TIMBER.
  2. THAW WIRE SHALL BE WOUND AROUND OUTSIDE OF SERVICE VALVE.

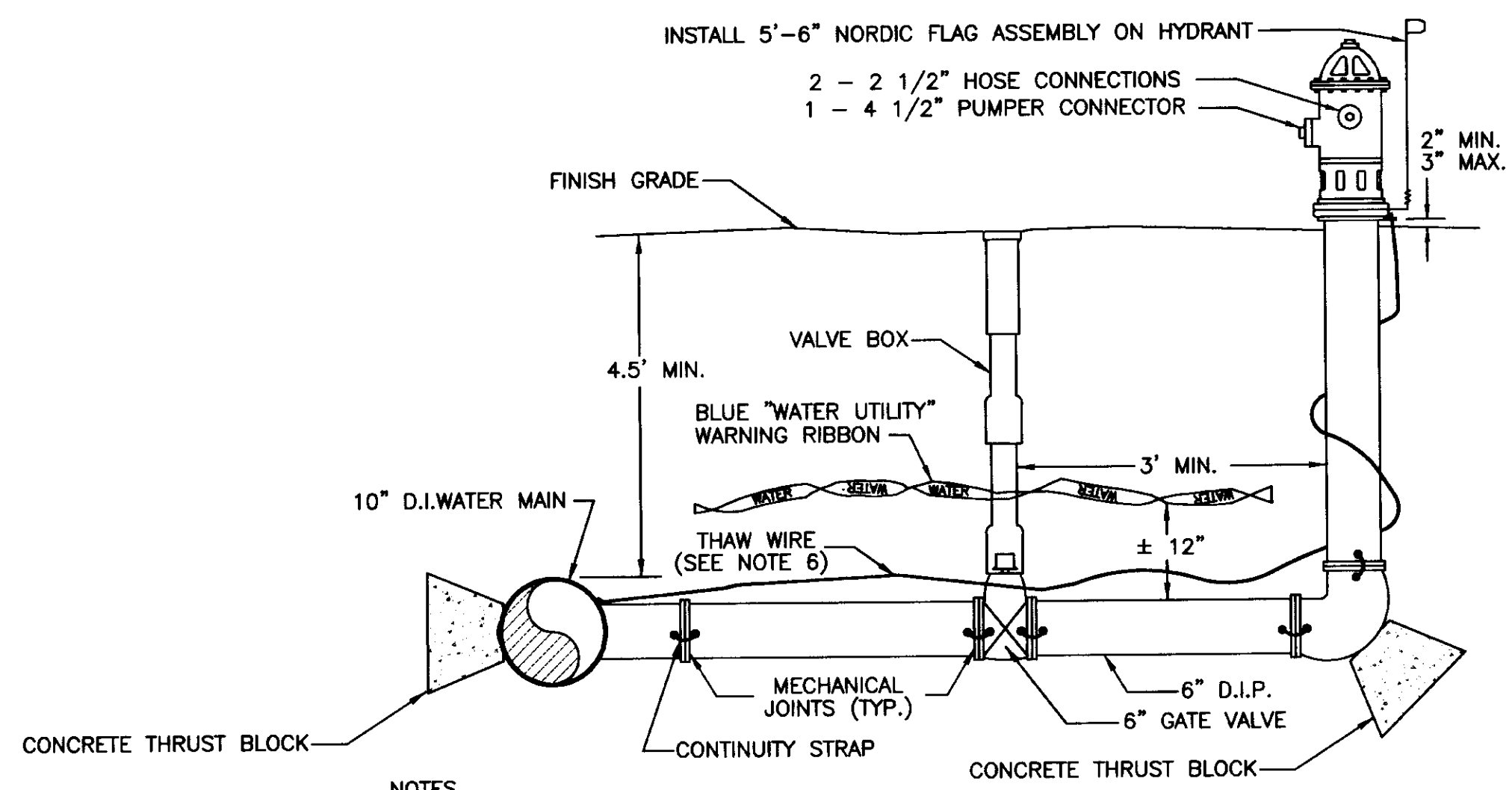
**WATER SERVICE**



PIPE SIZE	MIN. CONC. VOL. (YD <sup>3</sup> )	MIN. ROD SIZE	MIN. BRG. SURFACE (FT <sup>2</sup> )
6"	1.0	3/4"	3.0
10"	2.5	3/4"	5.5

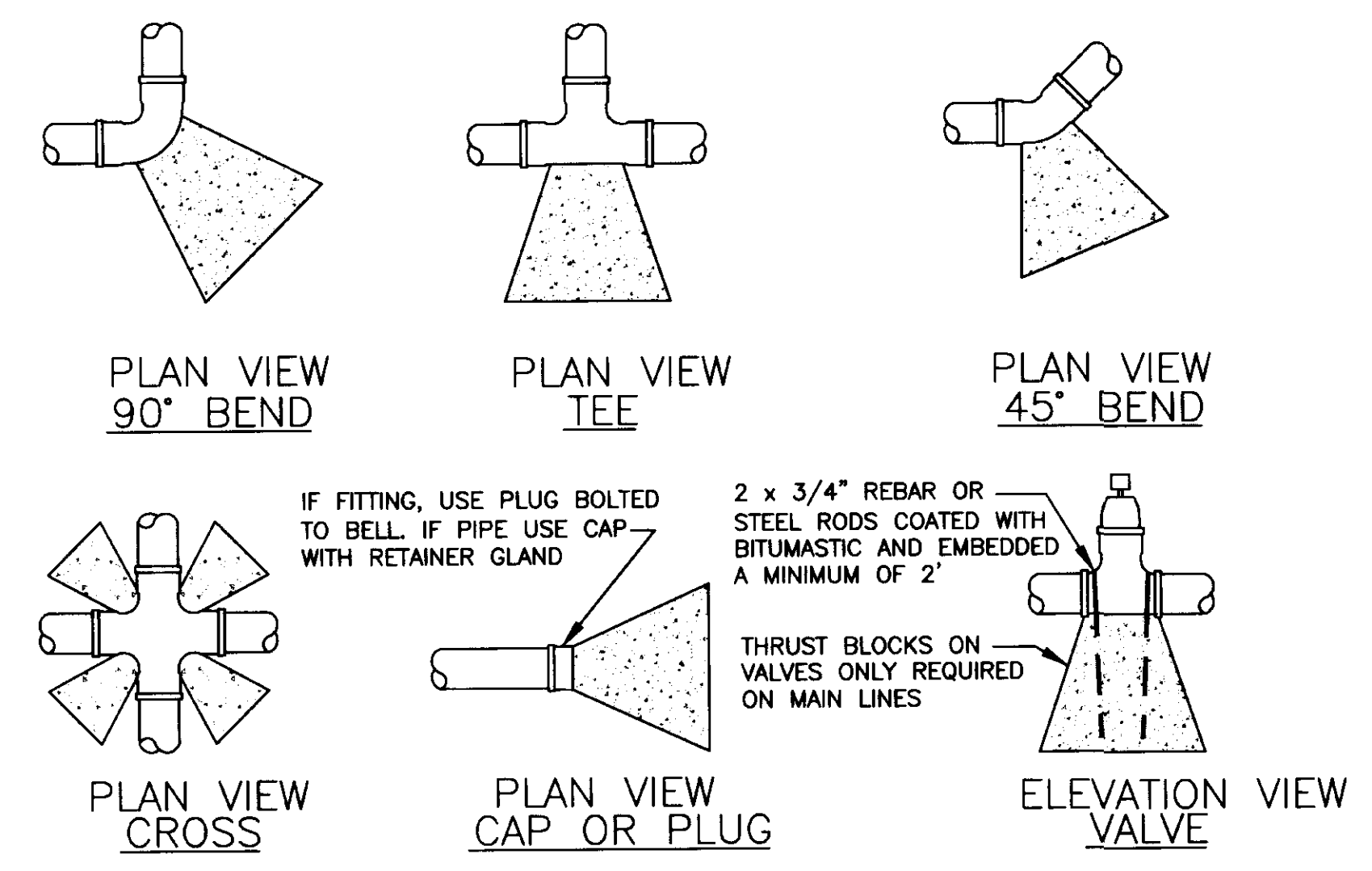
- NOTES:**
1. PIPE TO BE CONNECTED TO THRUST BLOCK WITH TWO REBAR OR STEEL RODS. RODS MUST BE COATED WITH BITUMASTIC AFTER INSTALLATION.

**VERTICAL THRUST BLOCK**



- NOTES:**
1. HYDRANT BARREL SHALL BE PLUMB.
  2. WATER PIPE SHALL BE 6" D.I.P. CONNECTIONS SHALL BE RESTRAINED MECHANICAL JOINTS OR MEGALUGS.
  3. GROUND COVER SHALL BE 5" MINIMUM.
  4. BENDS BETWEEN THE HYDRANT AND THE MAIN SHALL NOT EXCEED 11 1/4'.
  5. ALL HYDRANTS SHALL BE PAINTED SAFETY YELLOW. NUMBER OF FEET TO VALVE SHALL BE PRINTED IN BLACK 1/2" BLOCK LETTERS JUST BELOW TOP BONNET.
  6. THAW WIRE AND CONTINUITY STRAPS SHALL BE #2 COPPER WITH TYPE THHW INSULATION. THAW WIRE SHALL BE CADWELDED TO THE MAIN. EACH JOINT SHALL HAVE TWO CADWELDED CONTINUITY STRAPS ACROSS OPPOSITE SIDES OF THE PIPE.
  7. IF HYDRANT CROSSES UNDER A DITCH THAT IS DEEPER THAN 18", INSTALL A HYDRANT ACCESS PAD.
  8. WATER SERVICE CONNECTIONS SHALL NOT BE TAPPED OFF OF HYDRANT LEG UNLESS A CHECK VALVE IS INSTALLED ON THE SERVICE LINE AS APPROVED BY THE WATER UTILITY.

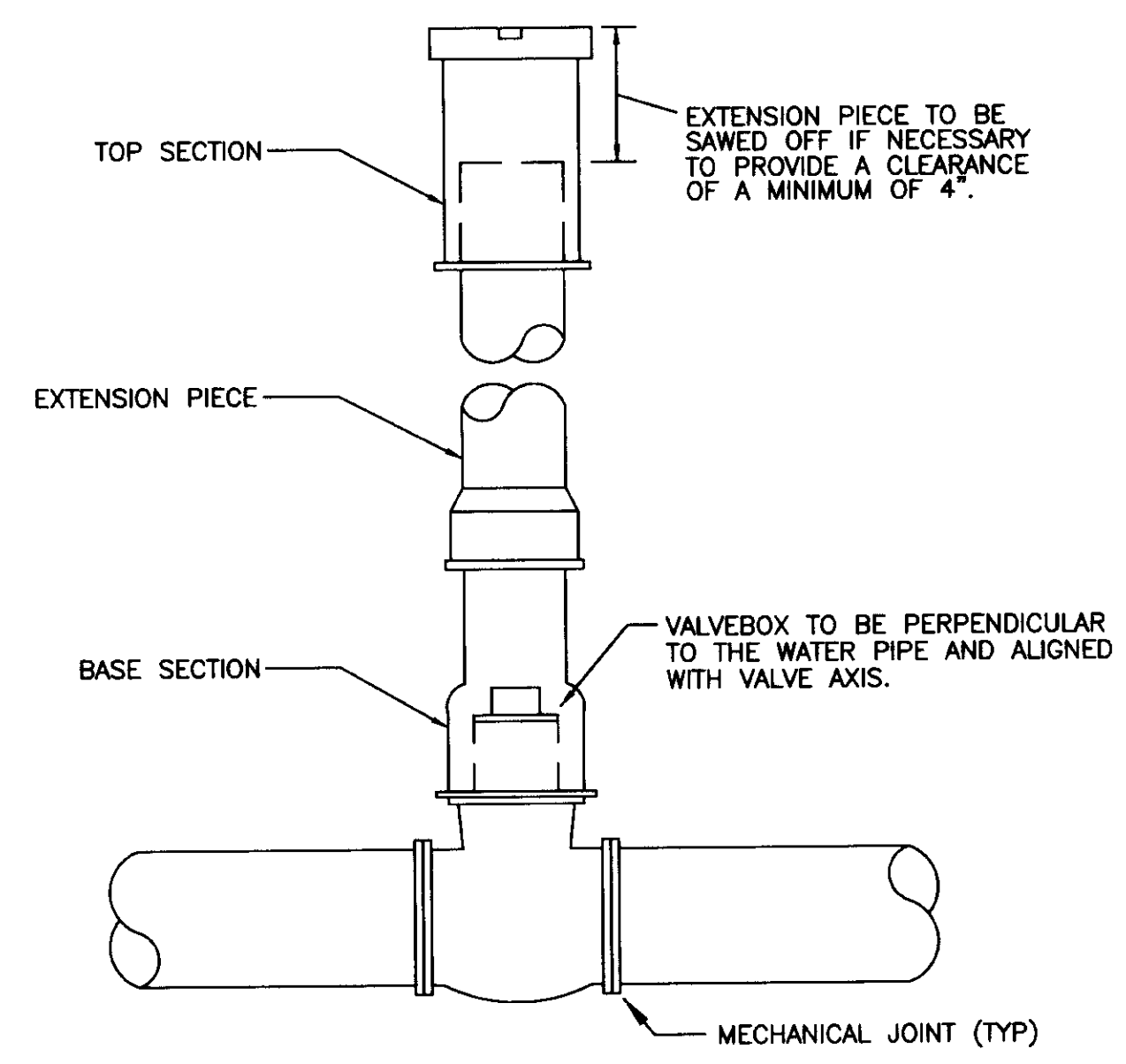
**FIRE HYDRANT**



PIPE SIZE	90° BEND, TEE OR PLUG		0° - 45° BEND OR CROSS		VALVES
	MIN. CONCRETE VOLUME (YD <sup>3</sup> )	MIN. BEARING AREA (FT <sup>2</sup> )	MIN. CONCRETE VOLUME (YD <sup>3</sup> )	MIN. BEARING AREA (FT <sup>2</sup> )	
4"	0.3	2.3	0.25	1.0	N/A
6"	0.3	3.0	0.25	1.6	0.25
8"	0.5	5.3	0.3	3.0	0.5
10"	0.75	8.3	0.5	4.5	0.5

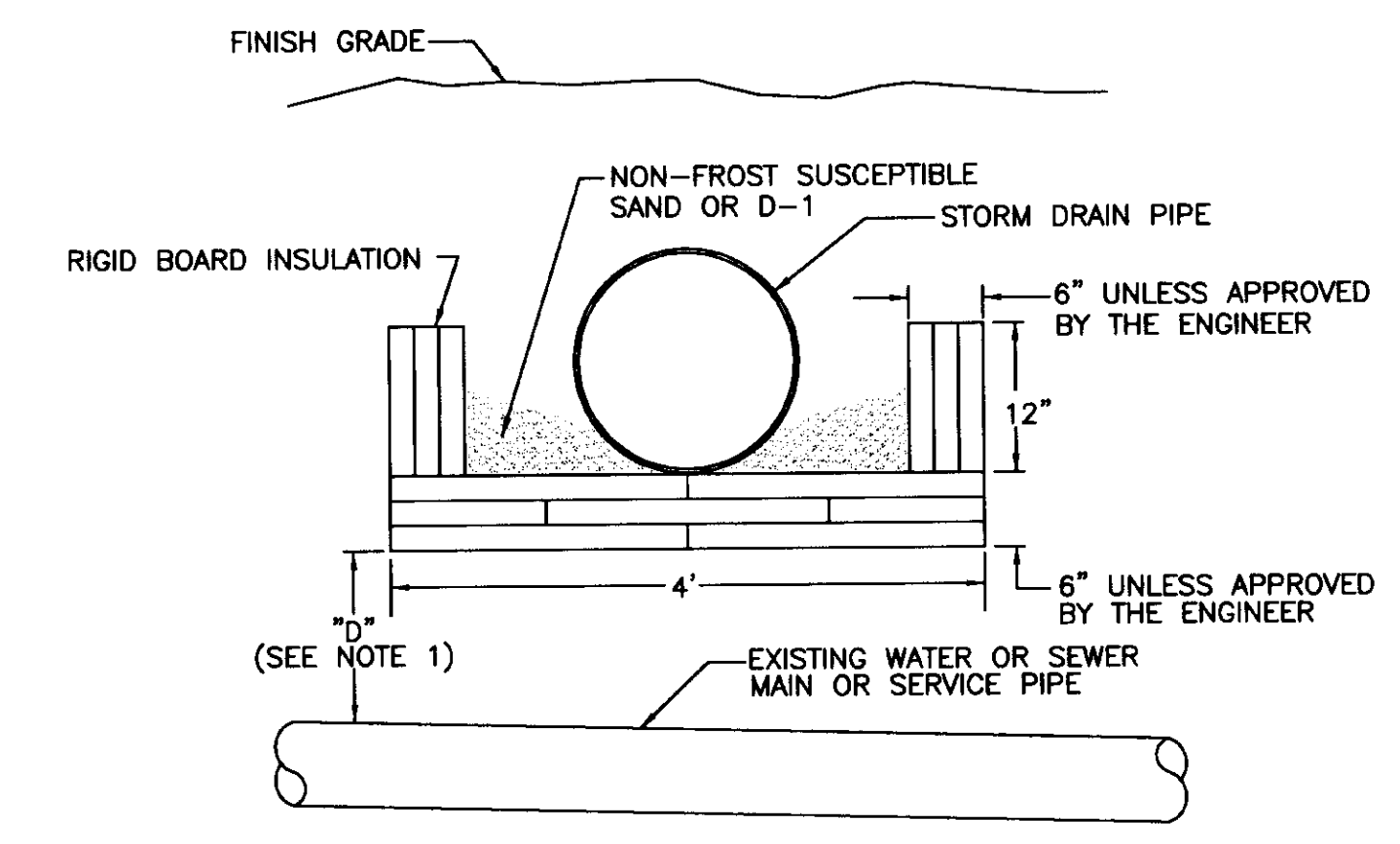
- NOTES:**
1. CENTER OF MASS OF THRUST BLOCK MUST LAY OPPOSITE TO AND ALIGNED AGAINST THE DIRECTION OF THRUST.
  2. THRUST BLOCKS SHALL BE POURED SO THAT JOINTS OF FITTINGS REMAIN ACCESSIBLE.
  3. CONCRETE THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED EARTH. UNSTABLE OR UNSUITABLE MATERIALS SHALL 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.

**HORIZONTAL THRUST BLOCKS**



- NOTE:**
1. MAINLINE VALVES REQUIRE THRUST BLOCKS.
  2. RECESS TOP OF VALVE BOX 6" TO 8".
  3. VALVE BOX SHALL BE CAST IRON AND SHALL HAVE A MINIMUM INSIDE DIAMETER OF 4-1/2".

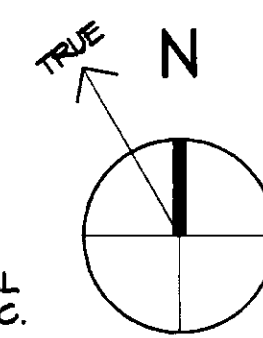
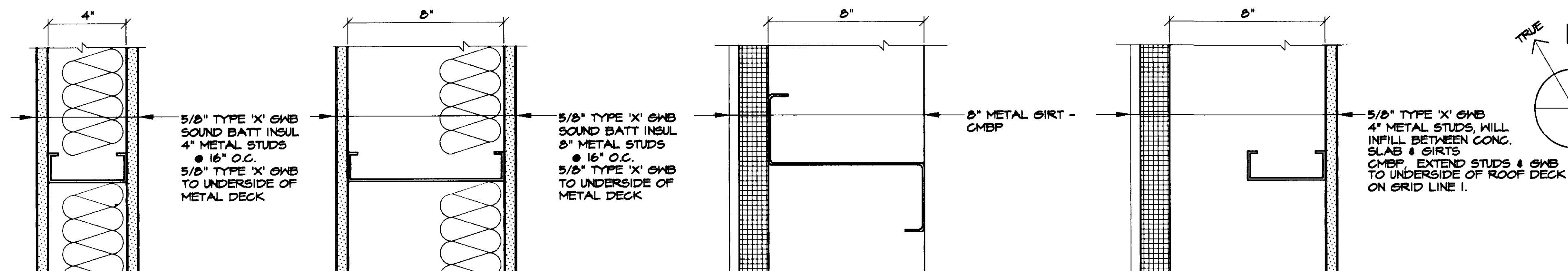
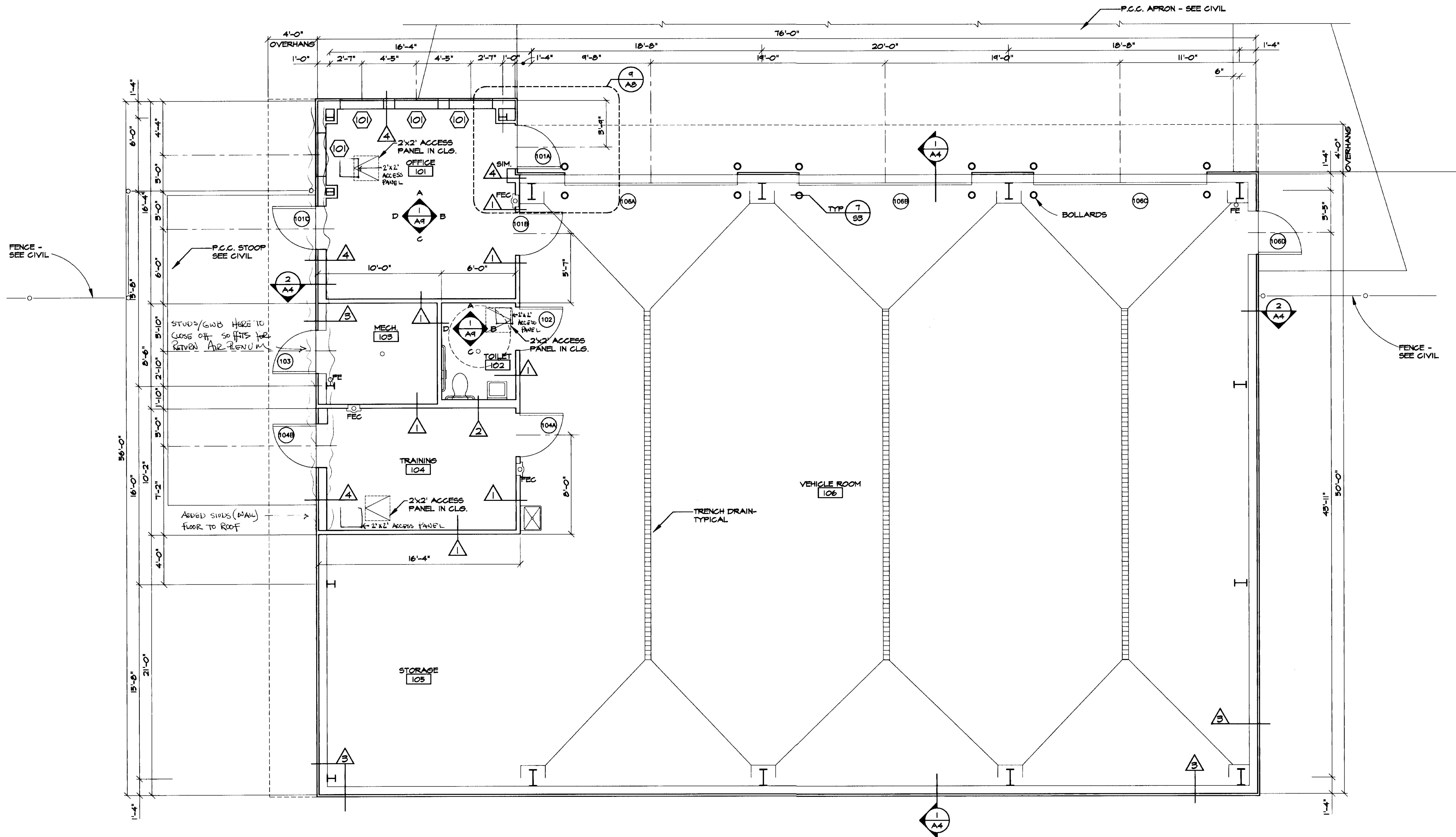
**VALVE BOX**



- NOTES:**
1. INSTALL INSULATION AS SHOWN WHEN "D" IS LESS THAN 5'-0" FOR WATER PIPE OR 3'8" FOR SEWER PIPE.
  3. PIPE INSULATION SHALL BE 8'-0" IN LENGTH, CENTERED OVER EXISTING WATER OR SEWER PIPE.
  2. INSULATION SHALL CONFORM TO THE STANDARD SPECIFICATIONS.
  4. PIPE INSULATION WITH R-FACTOR EQUAL TO RIGID BOARD MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.
  5. INSULATION BOARDS SHALL OVERLAP 12" AS SHOWN IN DRAWING.

**RIGID INSULATION**





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

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BY: *[Signature]*  
DATE: 11-7-92

Date Stamped:

By	HG
Revision	RECORD DRAWINGS
Date	11/7/92

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Project:  
**ARFF  
VEHICLE  
BUILDING**  
**WRANGELL,  
ALASKA**

Project Mgr.	L. MEARIS
Drawn	JLL
Drawn	PRM
Checked	P McK
Date	4-15-96

Sheet Contents:  
**FLOOR PLAN  
& WALL TYPES**

Sheet No.:

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BY HS  
DATE 11-7-97

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Date	11/7/97

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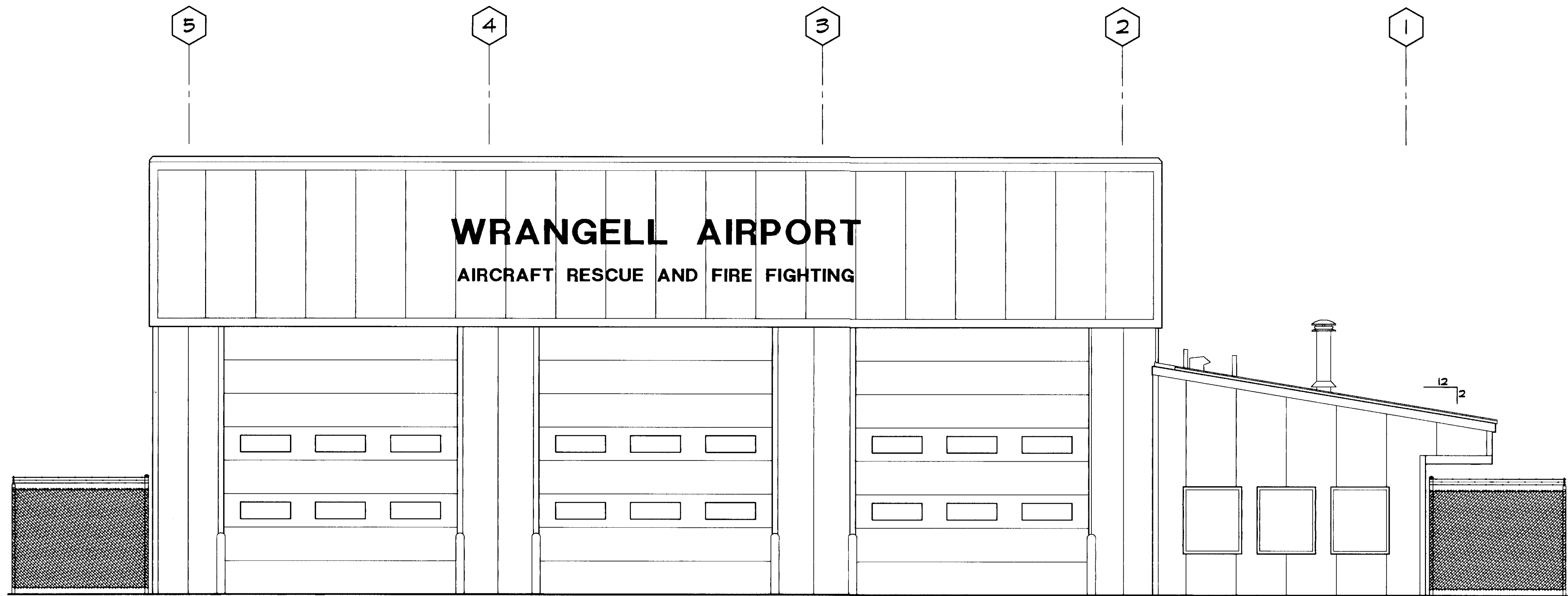
Project:  
**ARFF  
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BUILDING**

**WRANGELL,  
ALASKA**

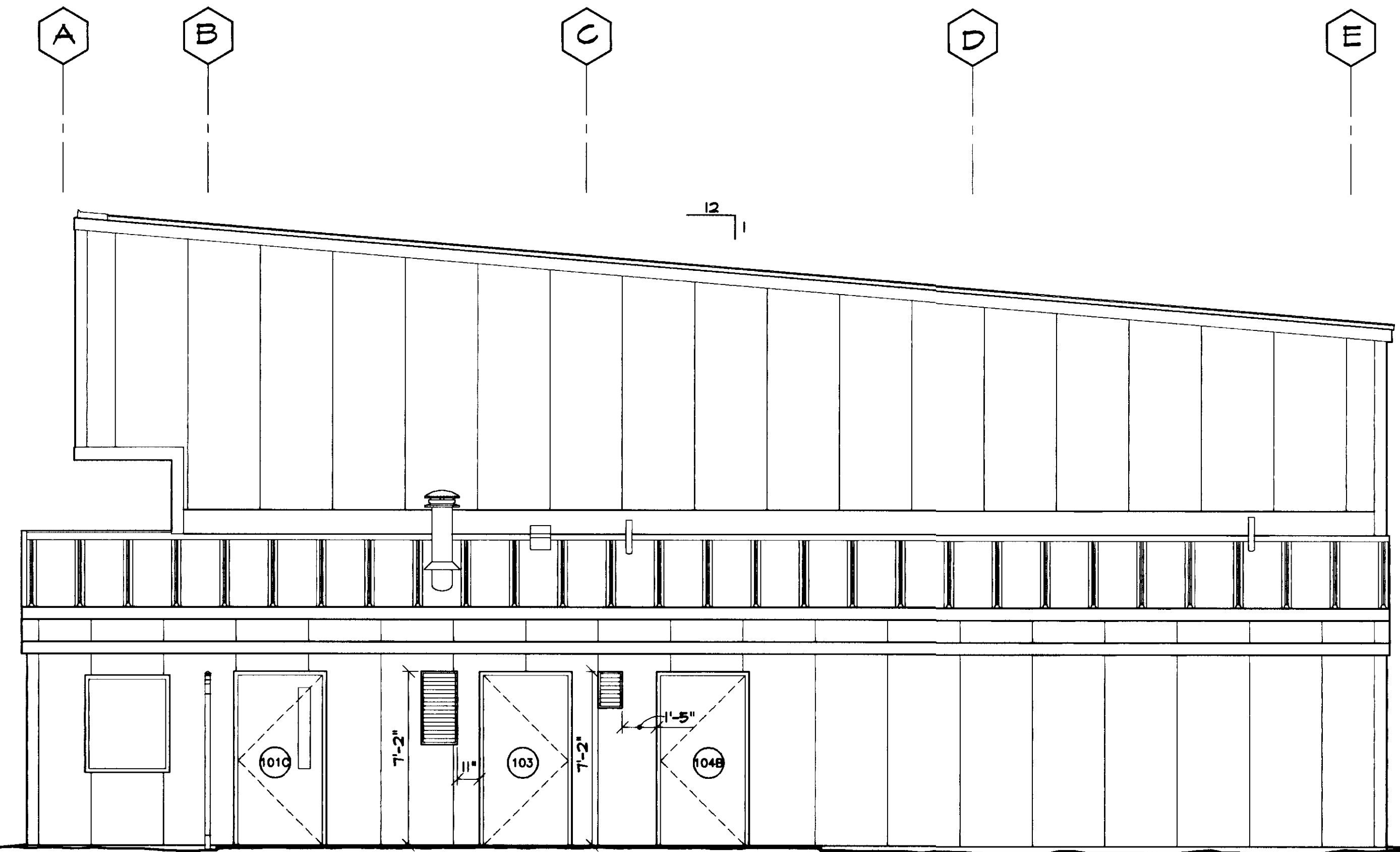
Project Mgr.	L. MEARIG
Drawn	JLL
Drawn	PRM
Checked	POMCK JAH
Date	4-15-96

Sheet Contents:  
**EXTERIOR  
ELEVATIONS**

Sheet No.:



1 NORTH ELEVATION  
A2 SCALE: 1/4" = 1'-0"

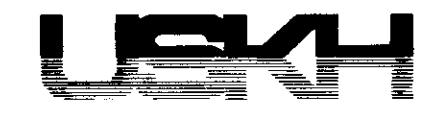


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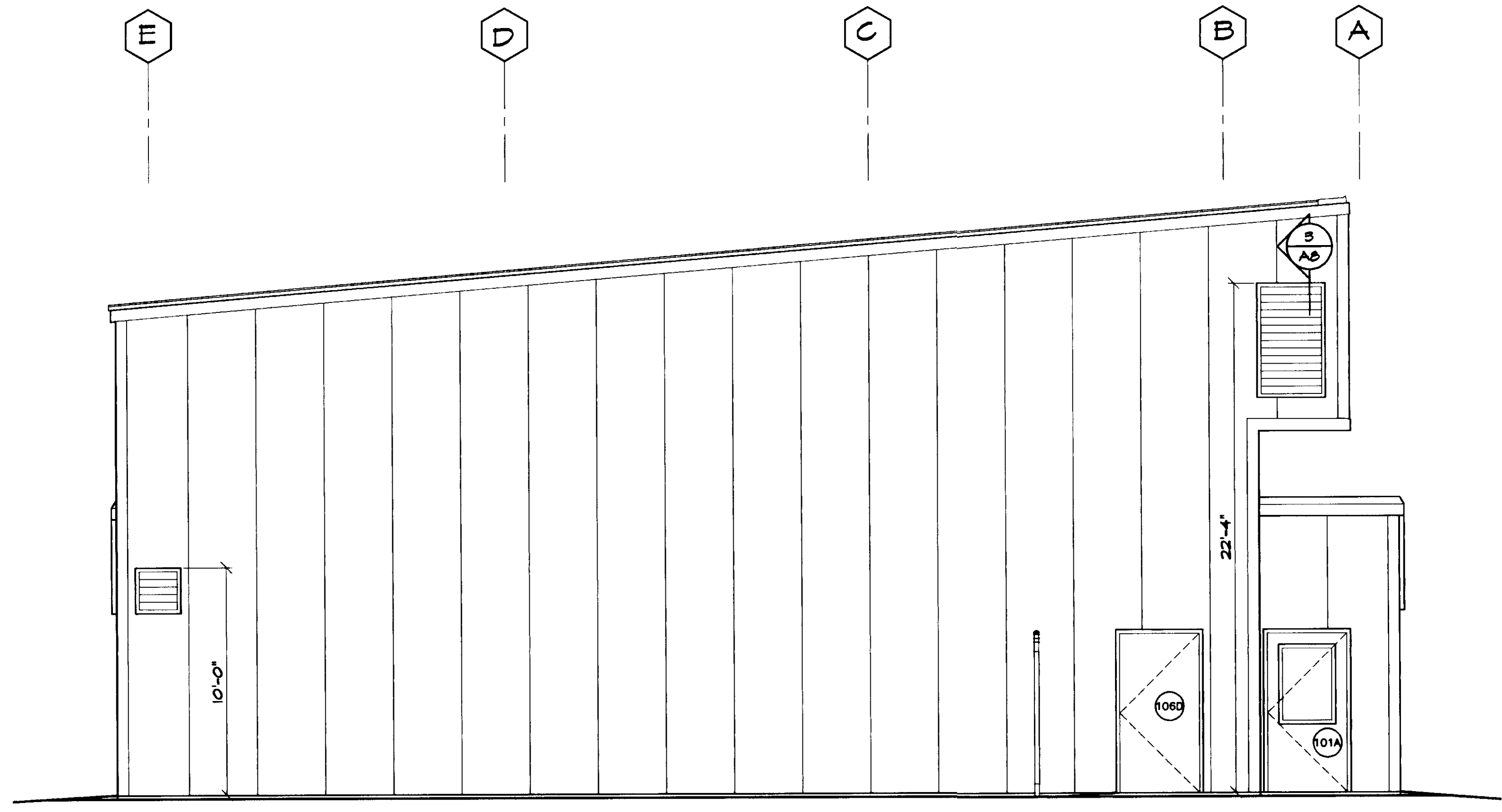
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Project:  
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**WRANGELL,  
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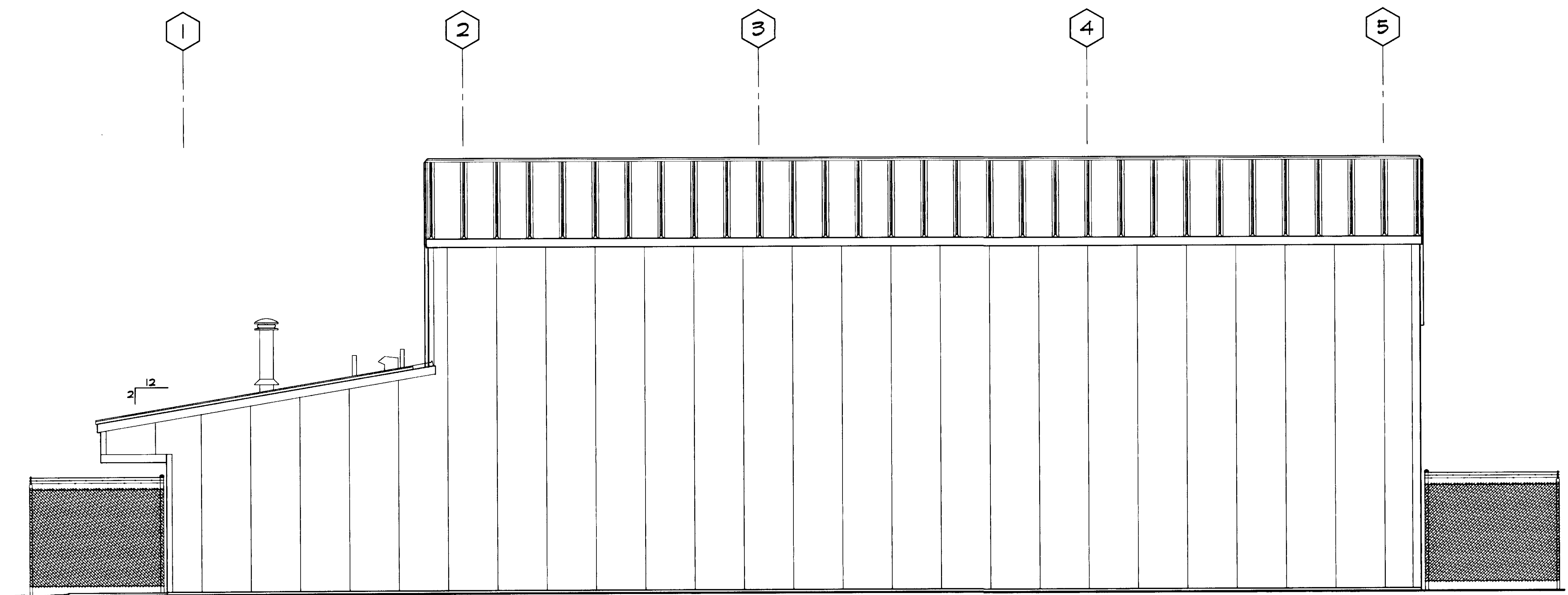
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Drawn	SDK
Drawn	JLL
Checked	POMCK J.H.
Date	4-15-96

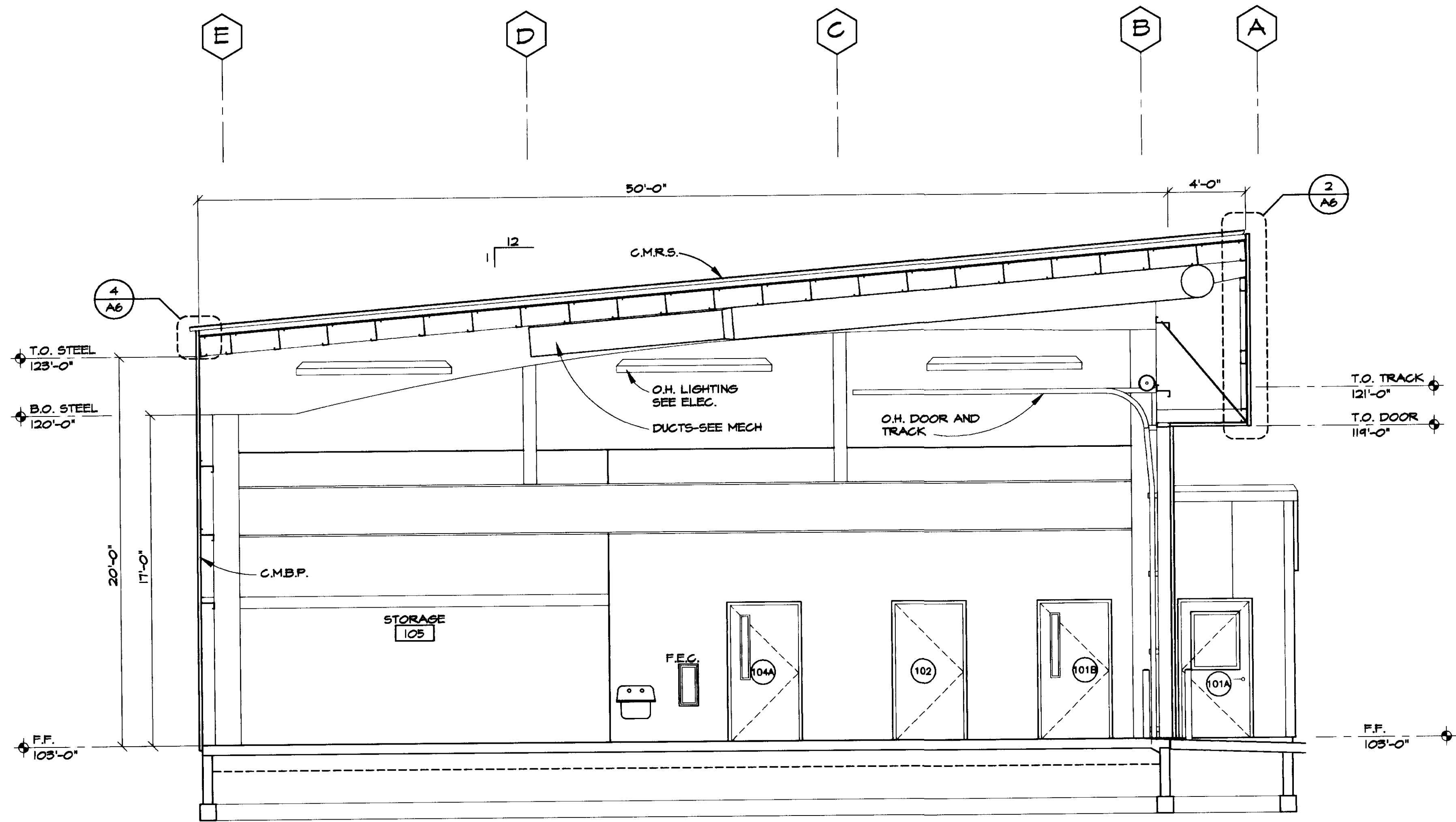
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**EXTERIOR  
ELEVATIONS**

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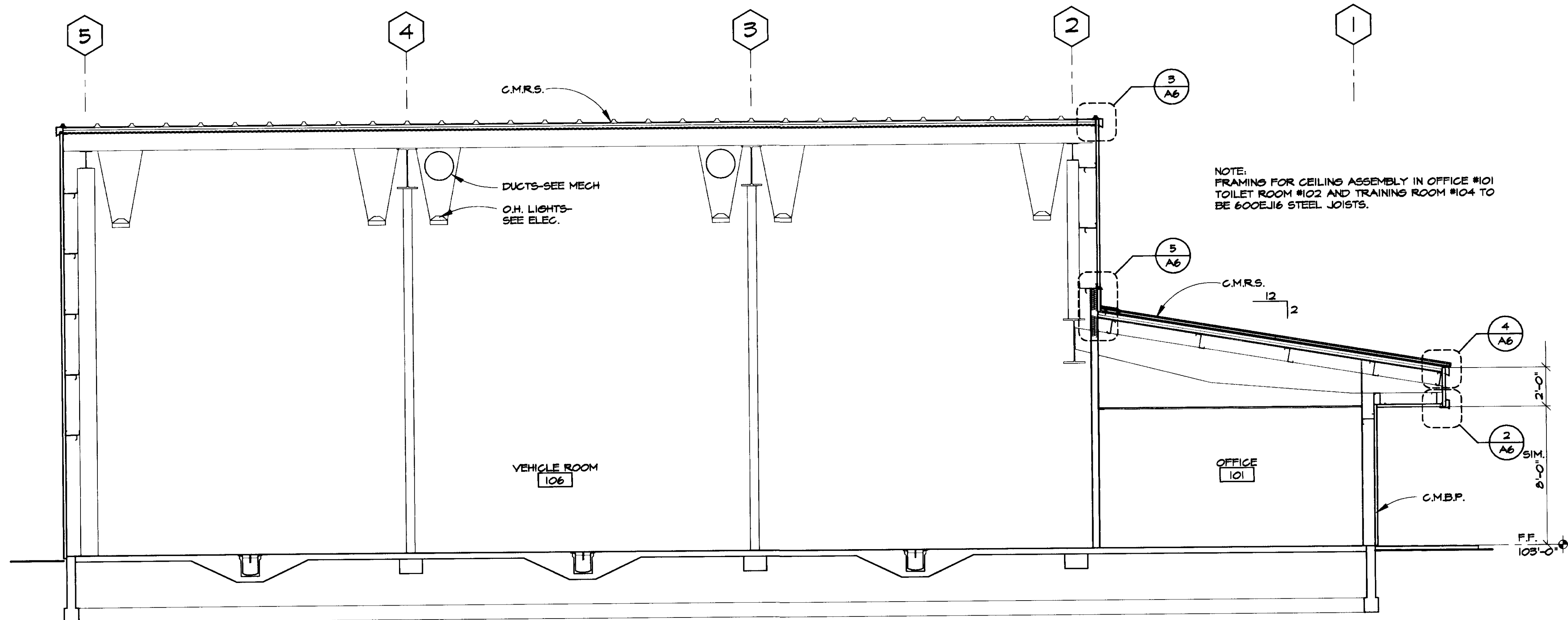


1 EAST ELEVATION  
A3 SCALE: 1/4" = 1'-0"





1 BUILDING CROSS SECTION  
A4 SCALE: 1/4" = 1'-0"



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Drawn	P.M.
Drawn	JLL
Checked	POM&K J.H.
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Sheet Contents:  
**BUILDING  
SECTIONS**

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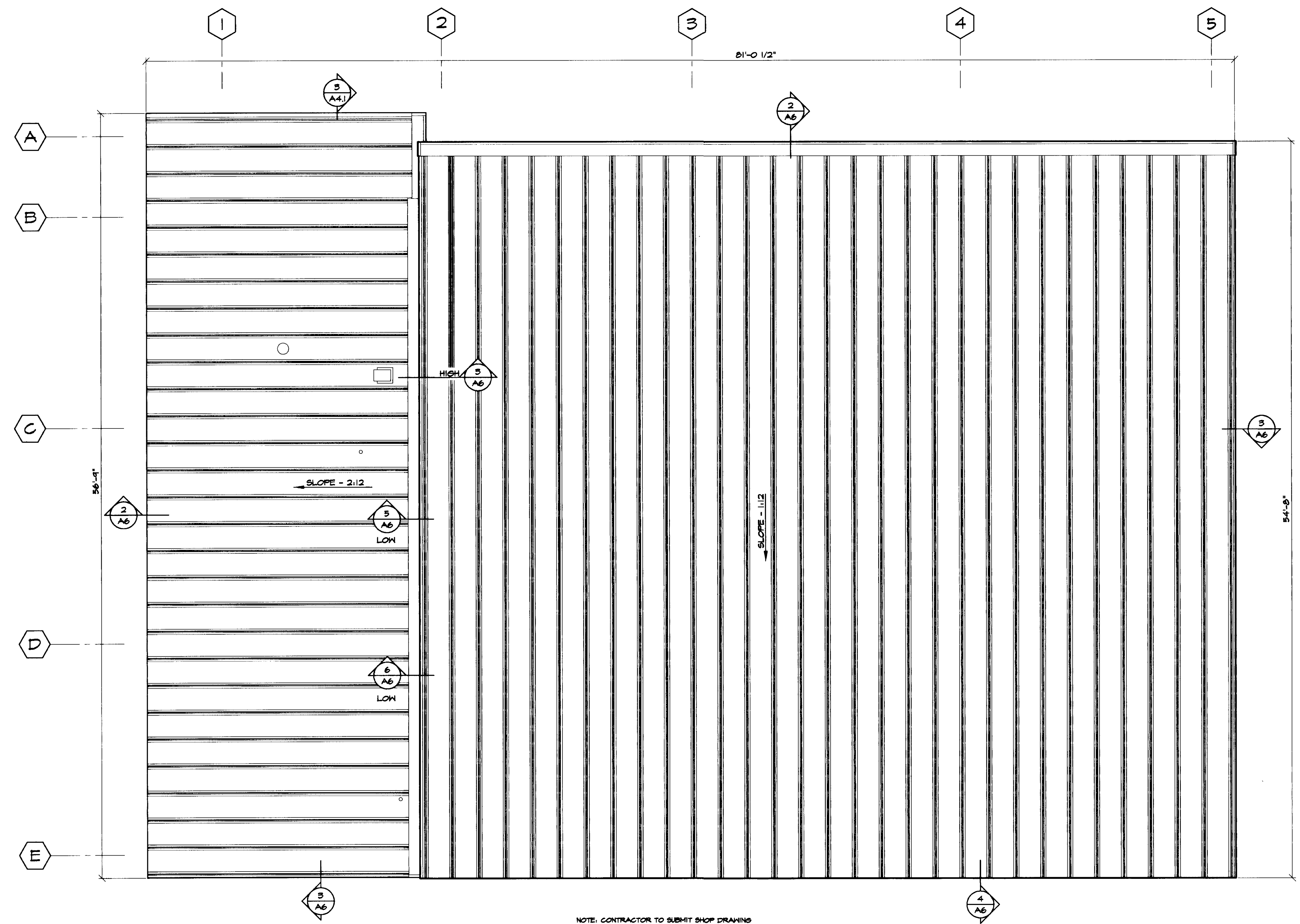
Project:  
**ARFF  
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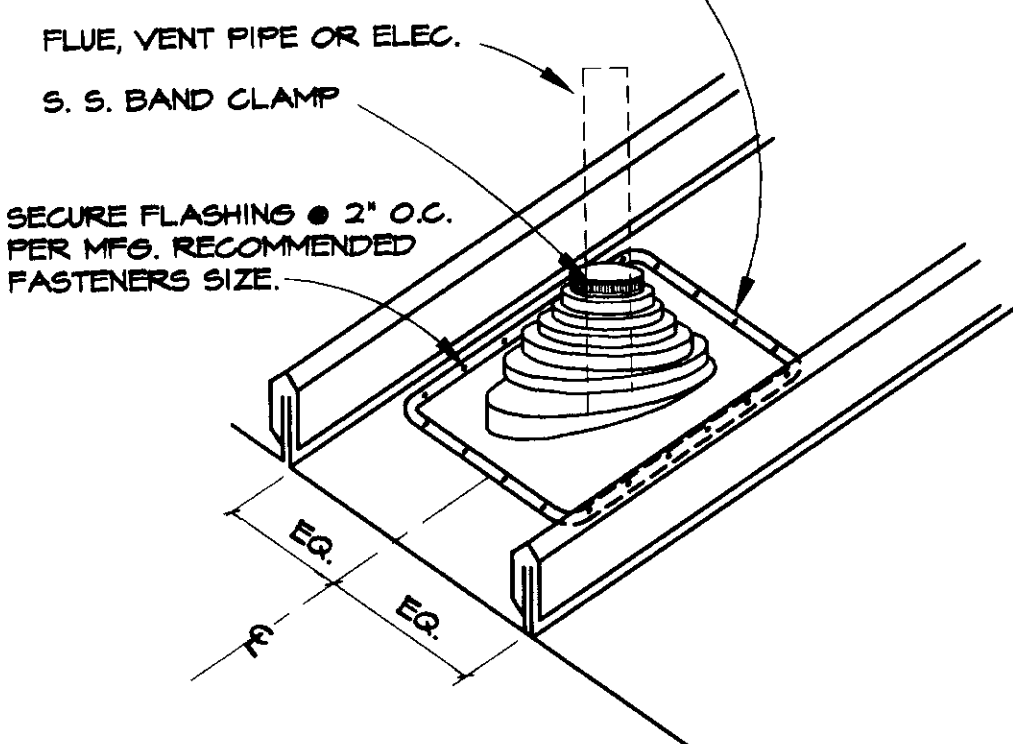
Sheet Contents:  
**ROOF PLAN**

Sheet No.:



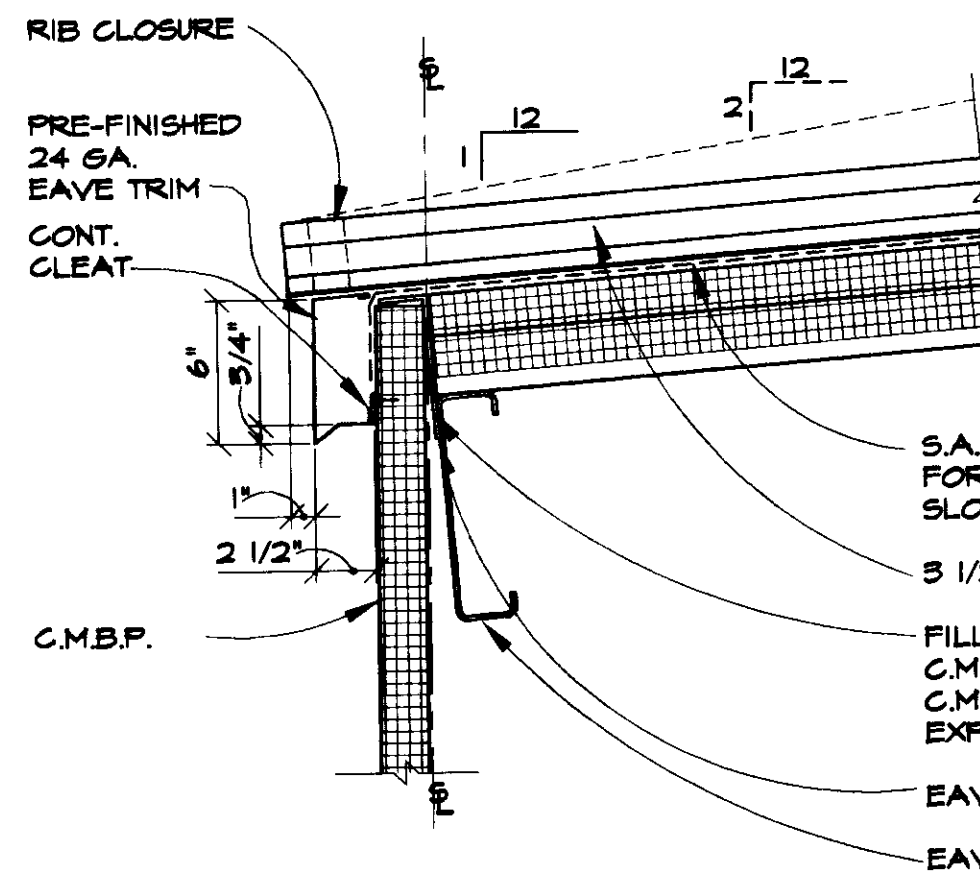
NOTE: CONTRACTOR TO SUBMIT SHOP DRAWING DETAILS FOR HOT STACK SUPPORT, CURB AND CRICKET, PER BUILDING MANUFACTURE.

TYPICAL PORTALS PLUS "DECK-MATE" ROOF JACK FLASHING OR APPROVED EQUAL, SET IN A BED OF WATERPROOFING SEALANT PER MFR. RECOMMENDATION.



NOTE: ALL ROOF PENETRATIONS SHALL BE COORDINATED TO OCCUR @ CENTER OF METAL ROOF PANEL. CONTRACTOR TO SUBMIT SHOP DRAWING DETAILS FOR SUPPORT CURB, AND CRICKET, PER BUILDING MANUFACTURER.

1 ROOF PENETRAION DETAIL  
A6 SCALE: 1 1/2" = 1'-0"

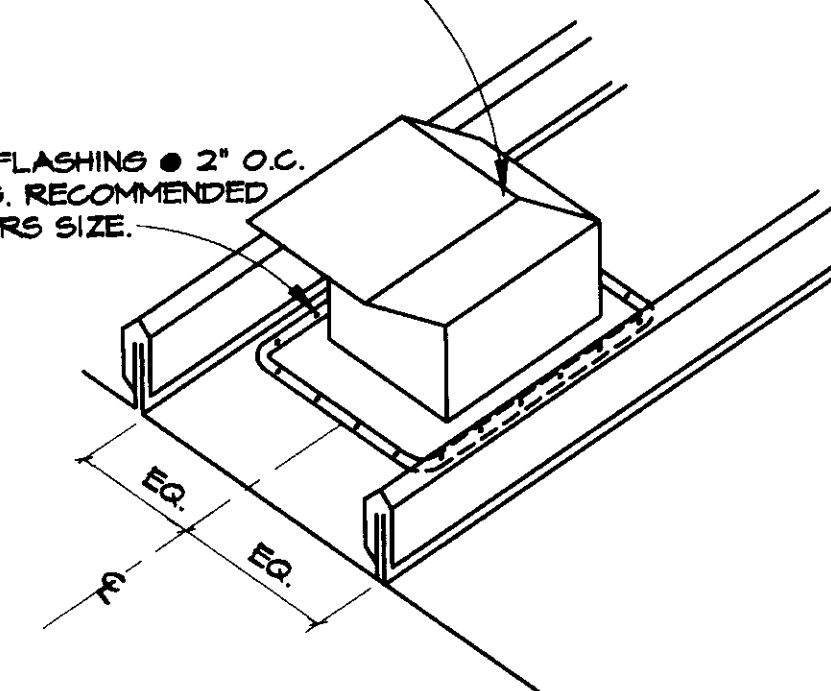


S.A.M. - RUN UP SLOPE FOR 40° (88° ON 2:12 SLOPE)  
3 1/2" C.M.R.S.  
FILL VOID BETWEEN C.M.R.S. AND C.M.B.P. W/ LOW EXPANDING FOAM  
EAVE ANGLE  
EAVE STRUT

4 EAVE DETAIL  
A6 SCALE: 1 1/2" = 1'-0"

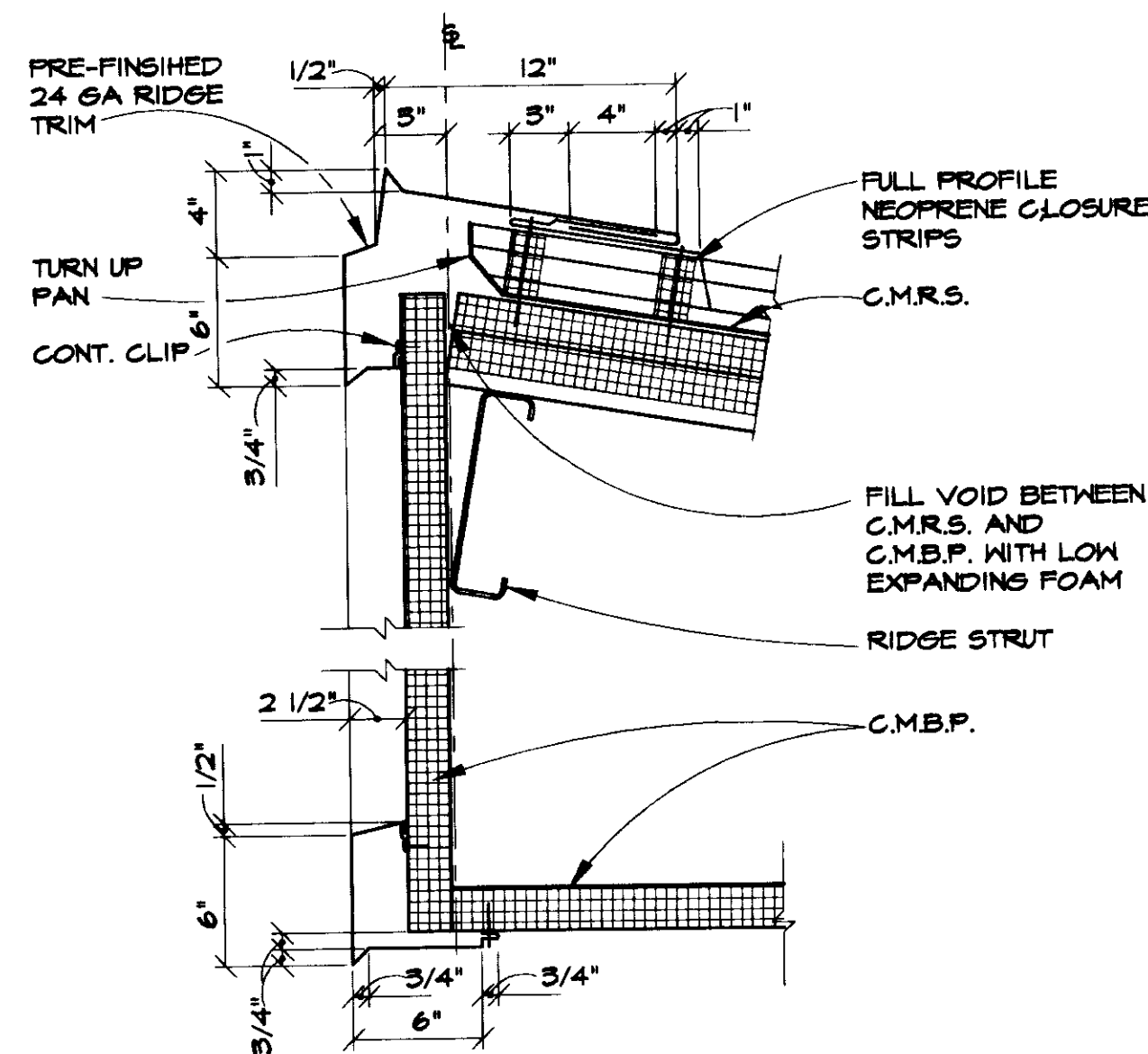
SEE MECH. FOR HOOD, SET IN A BED OF WATERPROOFING SEALANT PER MFR. RECOMMENDATION.

SECURE FLASHING @ 2" O.C. PER MFR. RECOMMENDED FASTENERS SIZE.

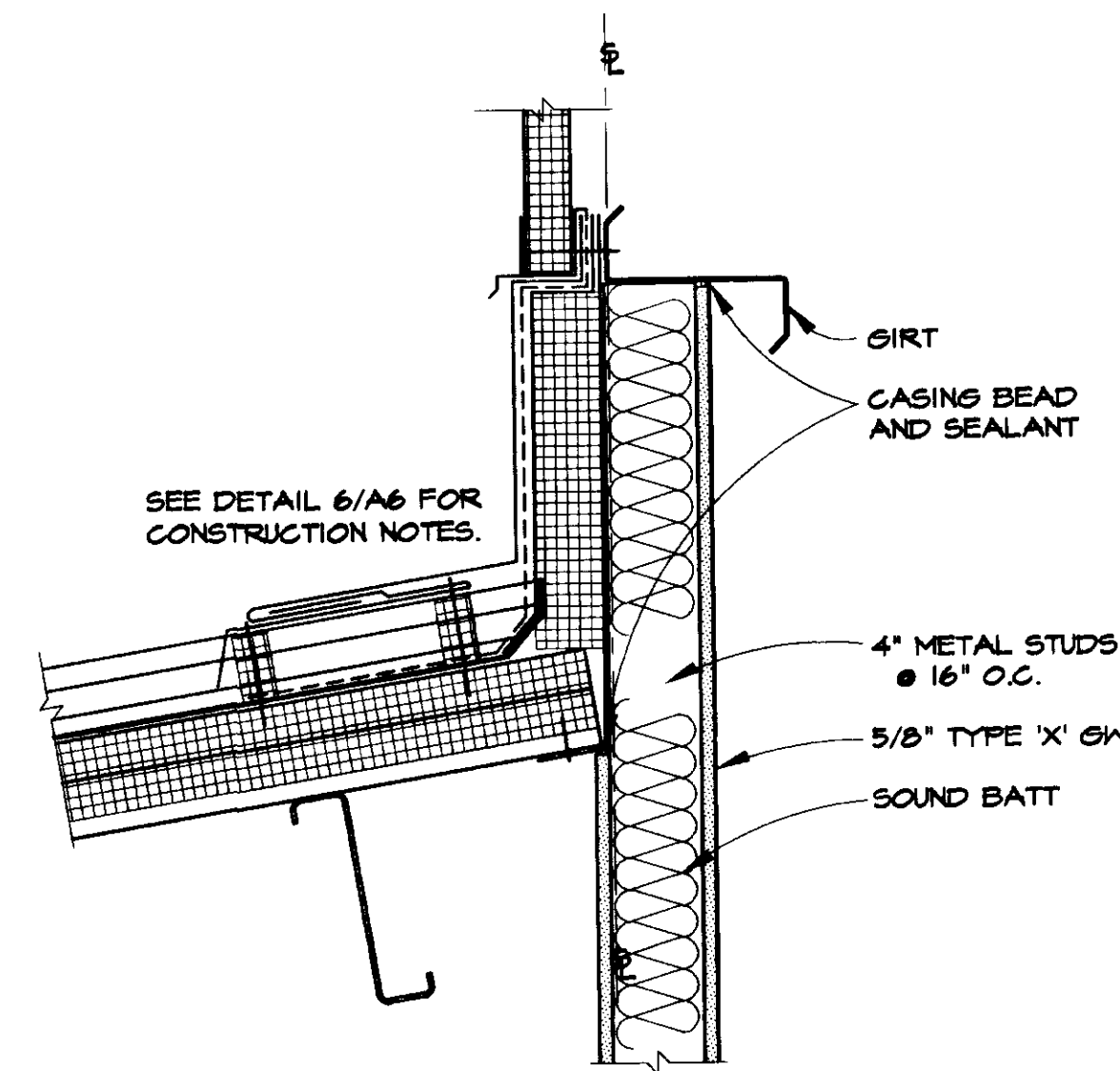


NOTE: ALL ROOF PENETRATIONS SHALL BE COORDINATED TO OCCUR @ CENTER OF METAL ROOF PANEL. CONTRACTOR TO SUBMIT SHOP DRAWING DETAILS FOR SUPPORT CURB, AND CRICKET, PER BUILDING MANUFACTURER.

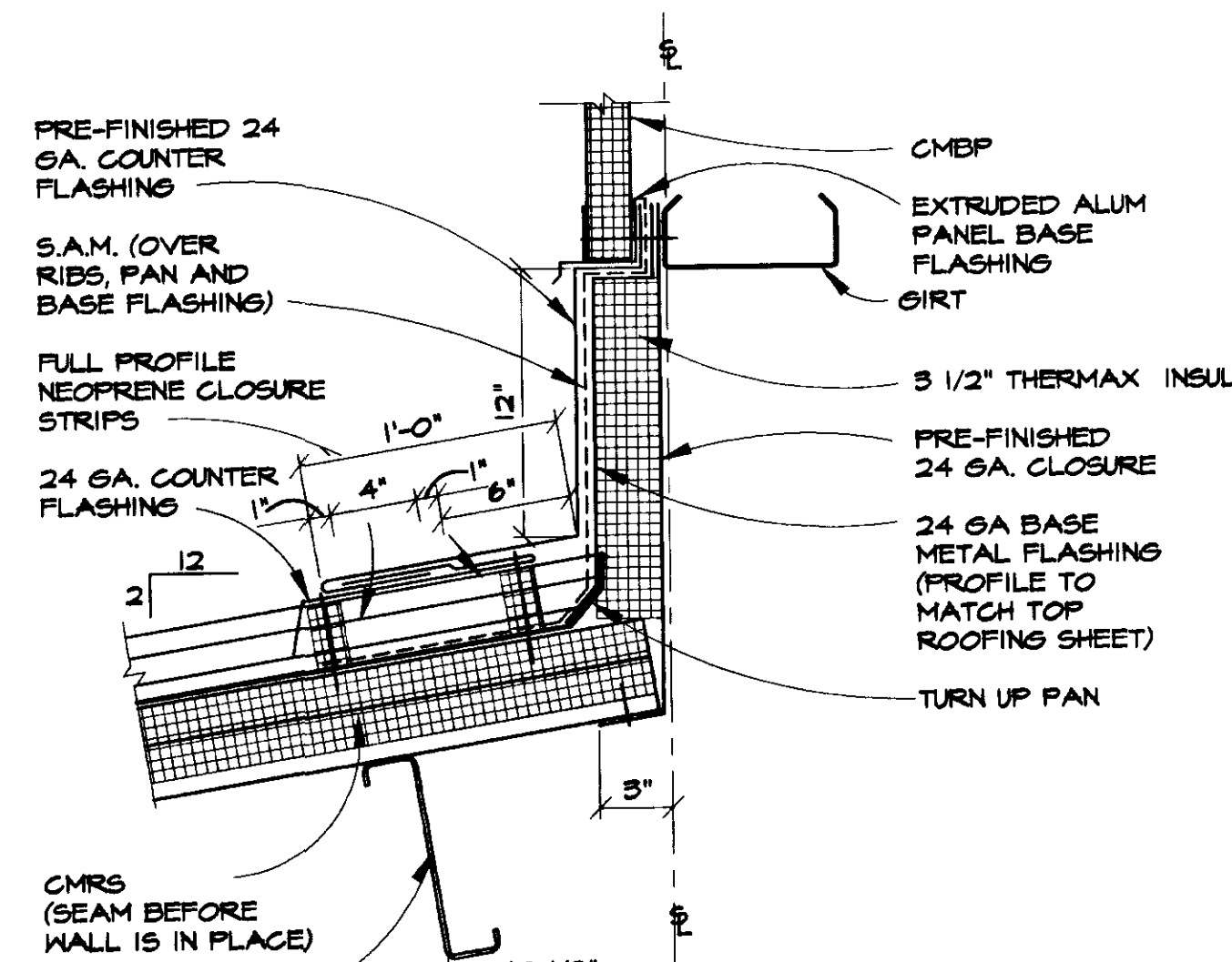
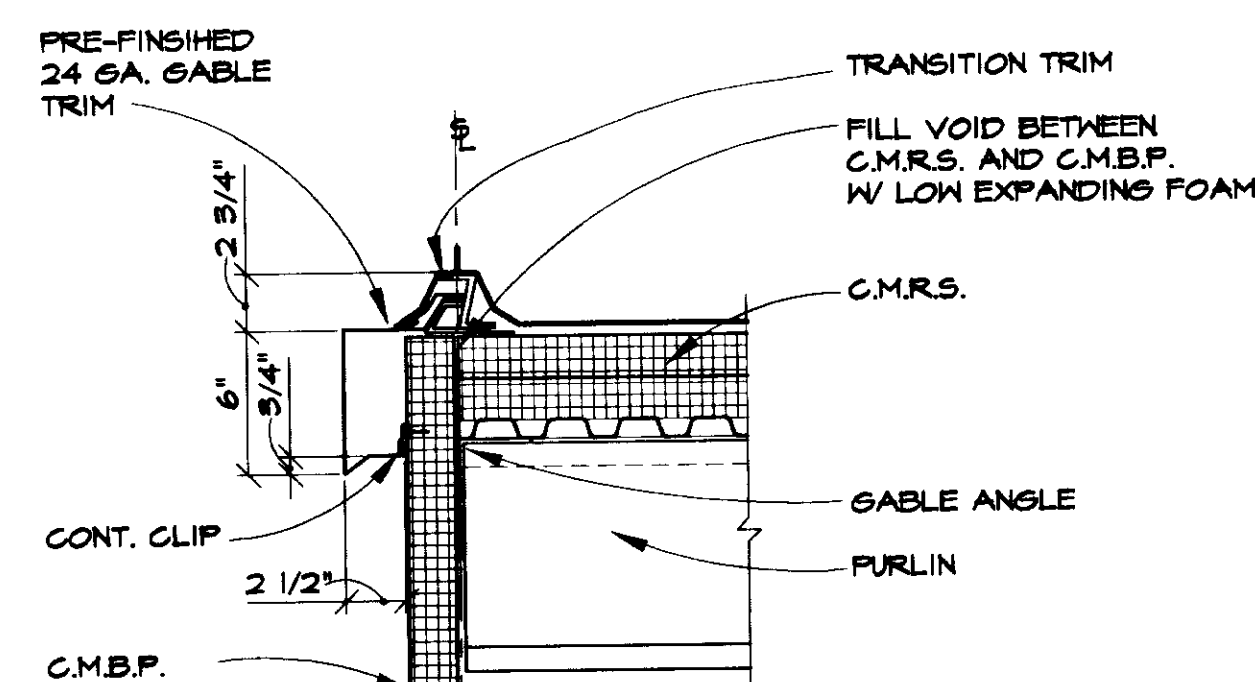
7 EXHUAST FAN HOOD DETAIL  
A6 SCALE: 1 1/2" = 1'-0"



2 RIDGE DETAIL  
A6 SCALE: 1 1/2" = 1'-0"



5 ROOF TO WALL DETAIL  
A6 SCALE: 1 1/2" = 1'-0"



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BY: HG  
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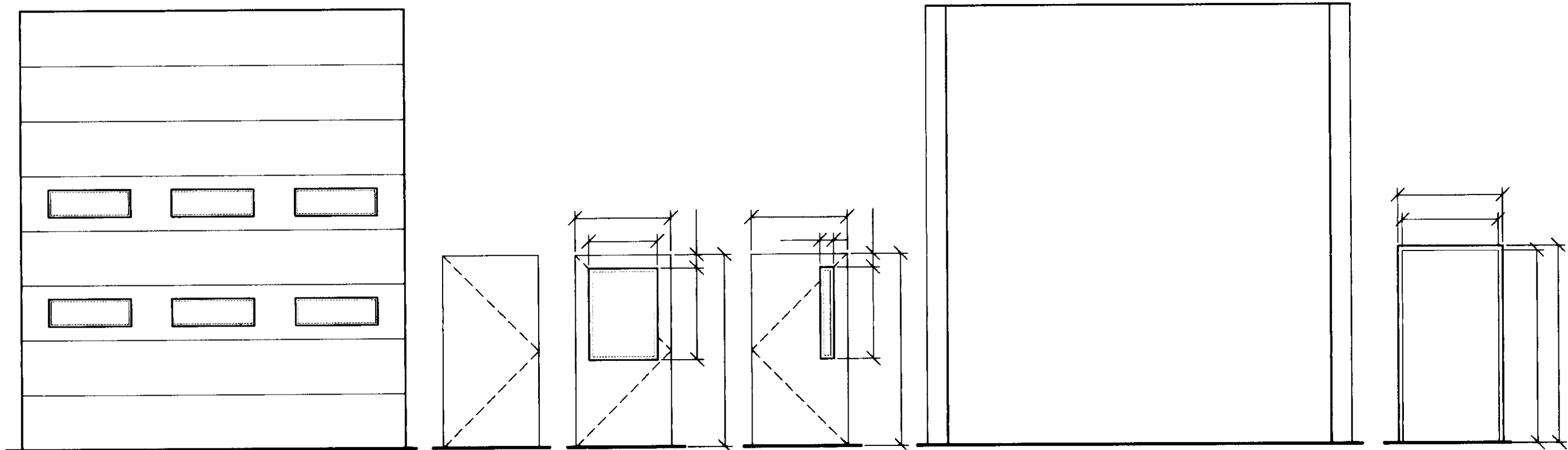
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Project:  
**ARFF  
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Project Mgr.	L. MEARIG
Drawn	P.M.
Drawn	JLL
Checked	POMCK J.H.
Date	4-15-96

Sheet Contents:  
**ROOF DETAILS**

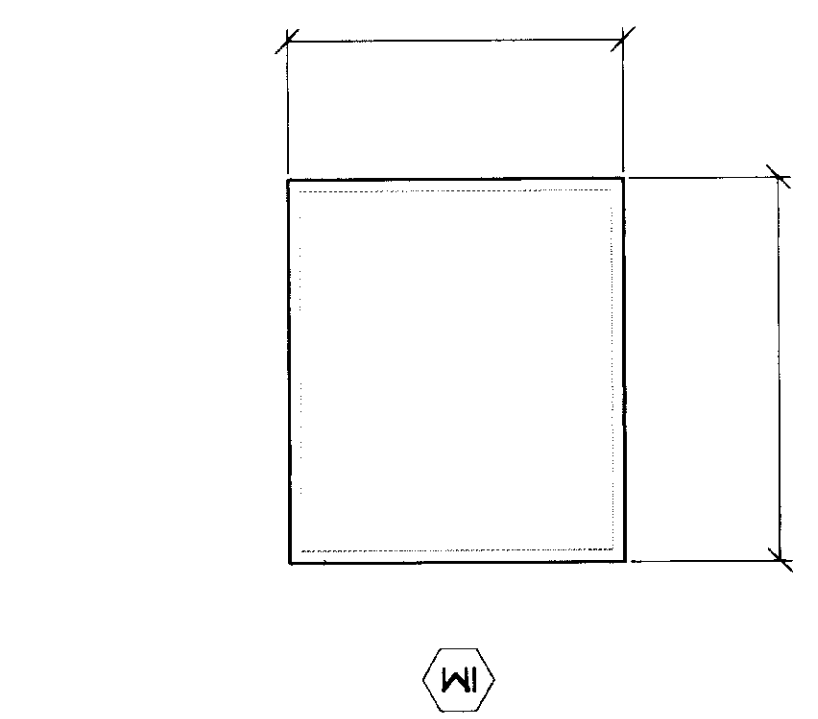
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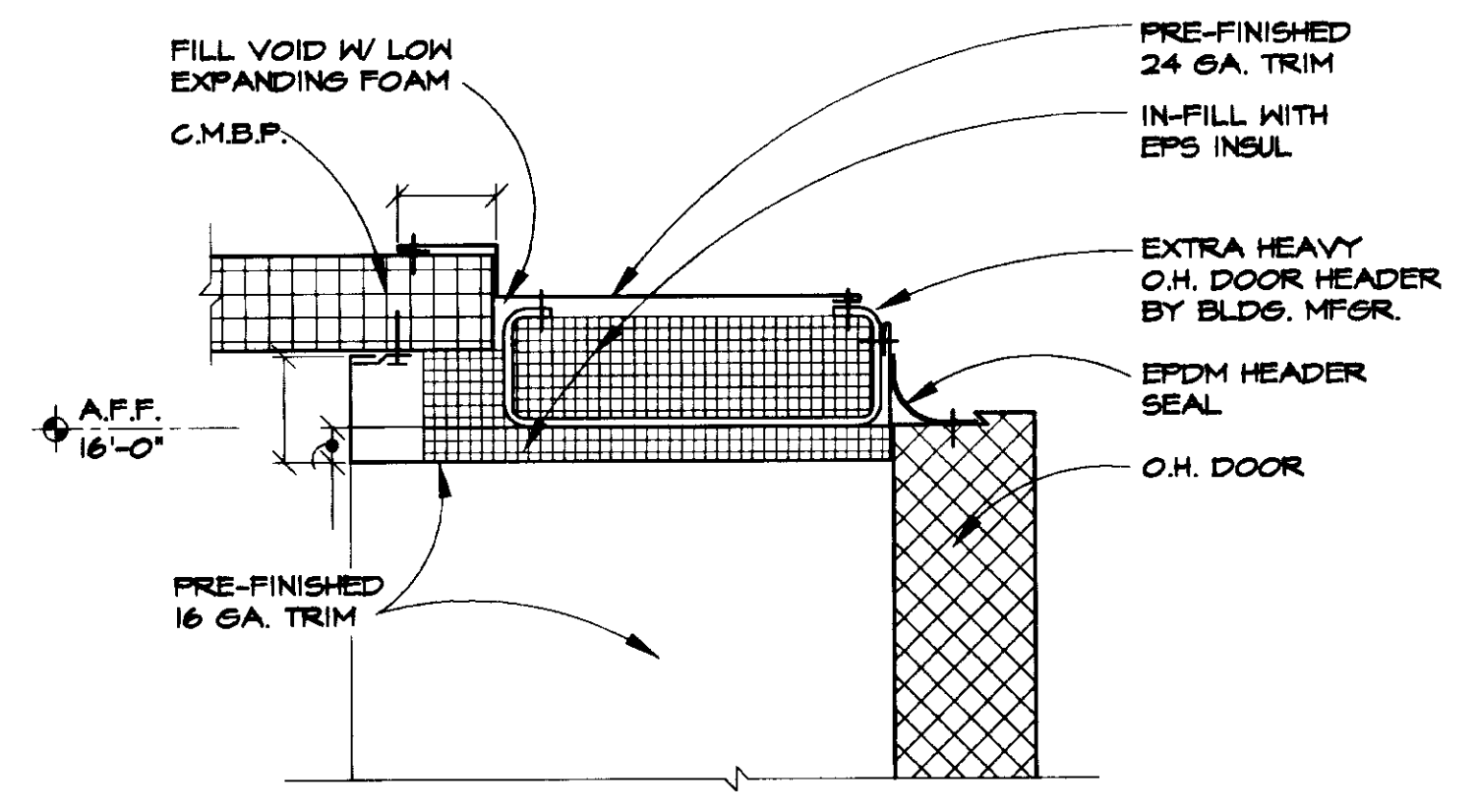
**1 DOOR ELEVATIONS**  
AT SCALE: 1/4"=1'-0"

**2 DOOR FRAMES**  
AT SCALE: 1/4"=1'-0"

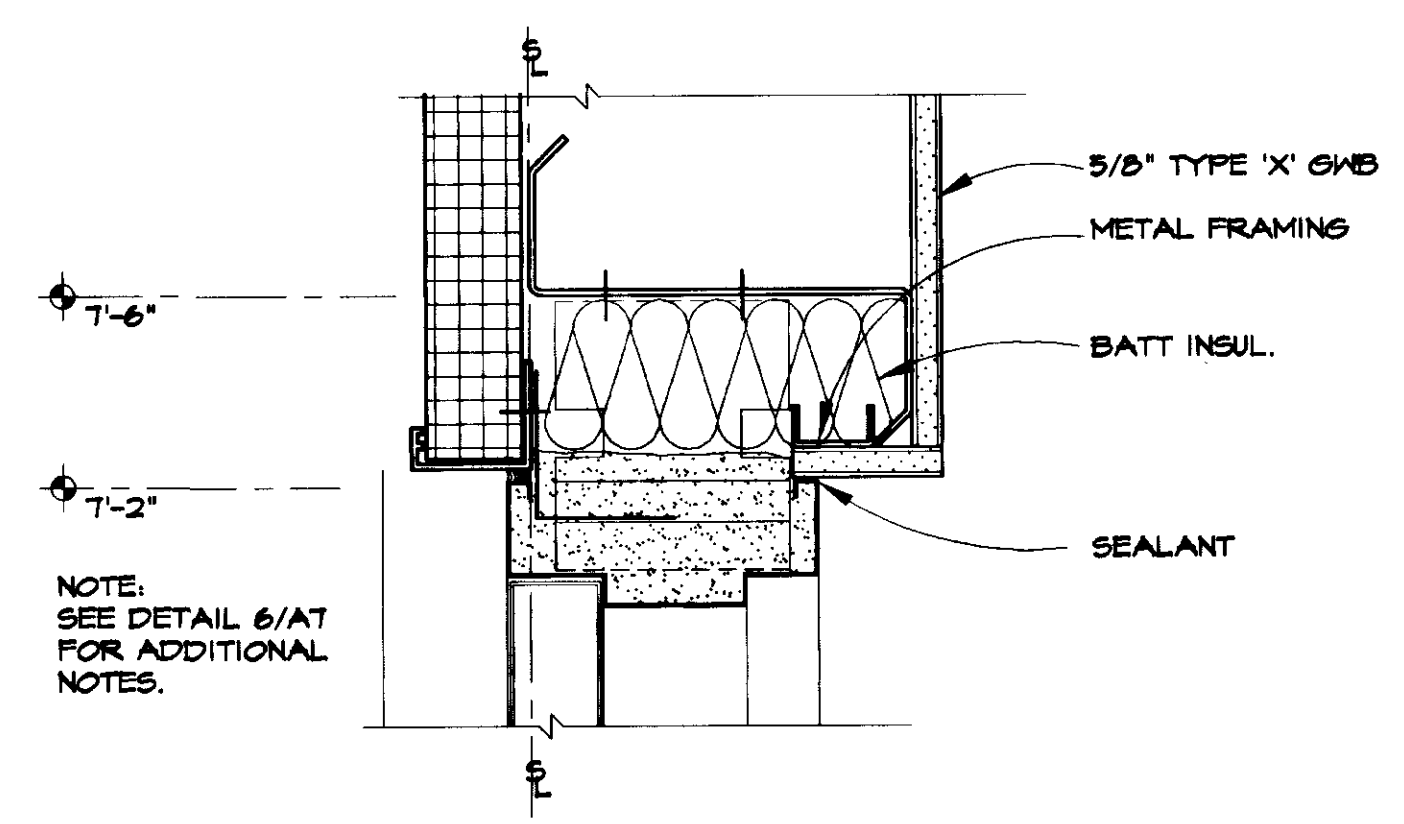
DR NO.	DOOR/WINDOW			FRAME			LABEL	HDWR	REMARKS	DR NO.	
	SIZE	TYPE	MAT'L	MAT'L	TYPE	THSH					HEAD
101A	3'-6" x 7'-0"	C	HM	HM	2	14/A7	5/A7	9/A7	HW-1	INSULATED	101A
101B	3'-6" x 7'-0"	D	HM	HM	2	13/A7	7/A7	7/A7	HW-2		101B
101C	3'-6" x 7'-0"	D	HM	HM	2	14/A7	5/A7	9/A7	HW-1		101C
102	3'-6" x 7'-0"	B	HM	HM	2	13/A7	7/A7	7/A7	HW-3		102
103	3'-6" x 7'-0"	B	HM	HM	2	14/A7	6/A7	10/A7	HW-4	INSULATED	103
104A	3'-6" x 7'-0"	D	HM	HM	2	13/A7	7/A7	7/A7	HW-2		104A
104B	3'-6" x 7'-0"	B	HM	HM	2	14/A7	6/A7	10/A7	HW-1	INSULATED	104B
106A	16'-0"H x 14'-0"W	A	IM	HM	1	12/A7	4/A7	8/A7	MFGRS	OVERHEAD DOOR	106A
106B	16'-0"H x 14'-0"W	A	IM	HM	1	12/A7	4/A7	8/A7	MFGRS	OVERHEAD DOOR	106B
106C	16'-0"H x 14'-0"W	A	IM	HM	1	12/A7	4/A7	8/A7	MFGRS	OVERHEAD DOOR	106C
106D	3'-6" x 7'-0"	B	HM	HM	2	14/A7	6/A7	10/A7	HW-1	INSULATED	106D
WIN NO.											
101	3'-6" x 4'-0"	WI	PVC	PVC	WI	12/AB	4/AB	8/AB	-	-	101



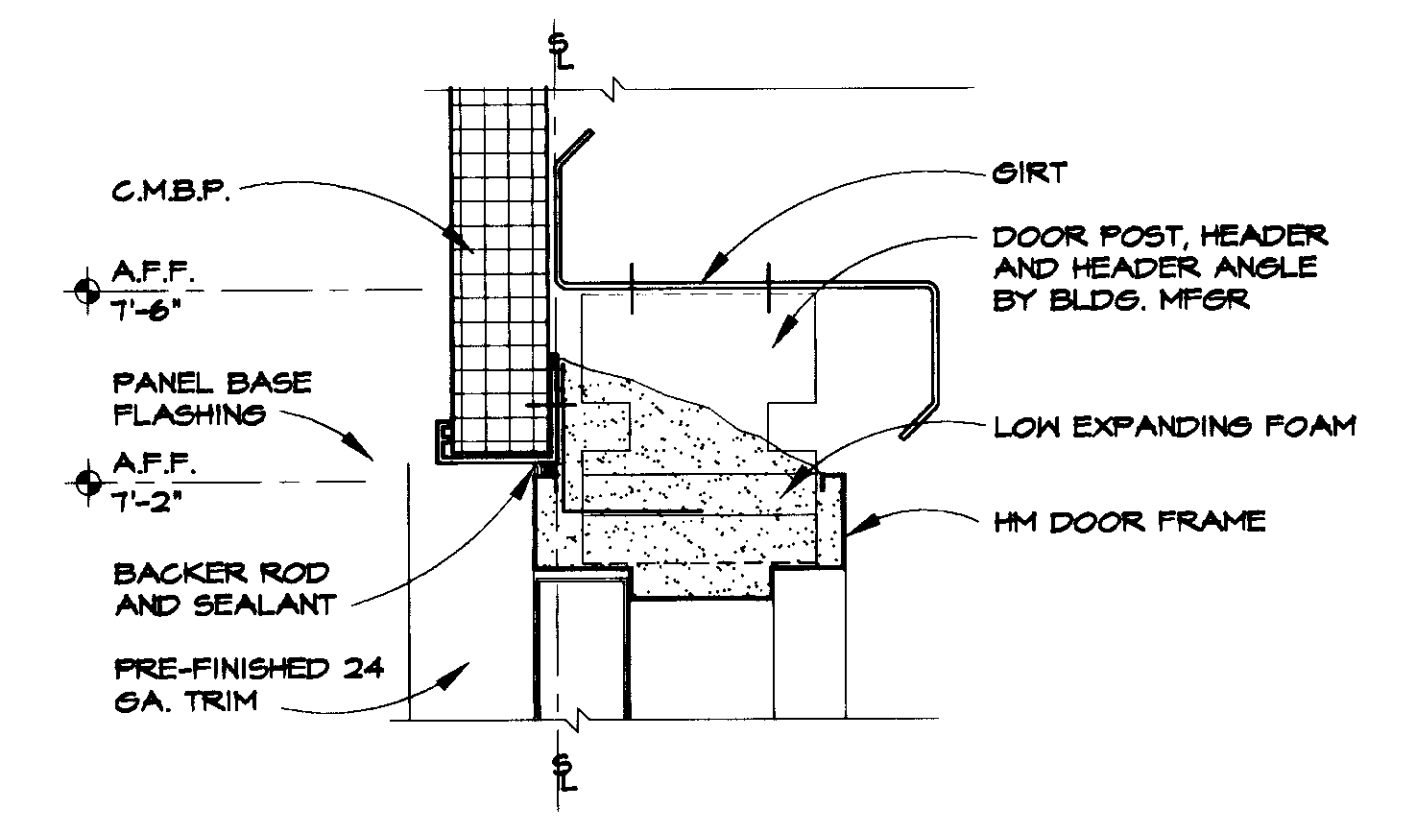
**3 WINDOW ELEVATION**  
AT SCALE: 1/2"=1'-0"



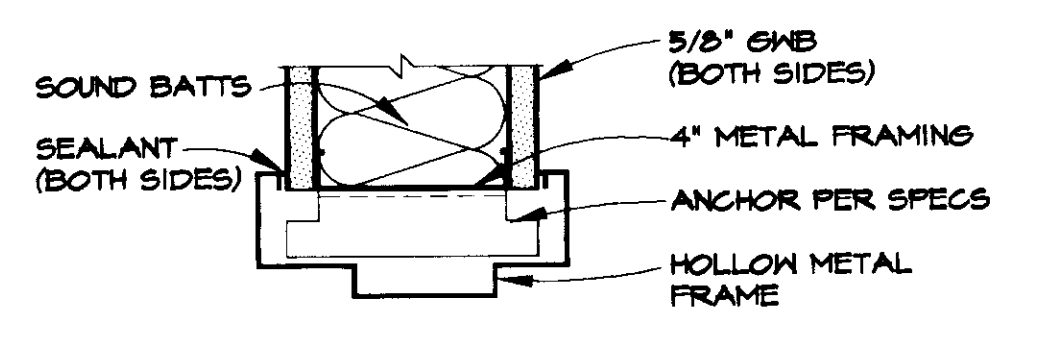
**4 OVERHEAD DOOR HEAD DETAIL**  
AT SCALE: 3"=1'-0"



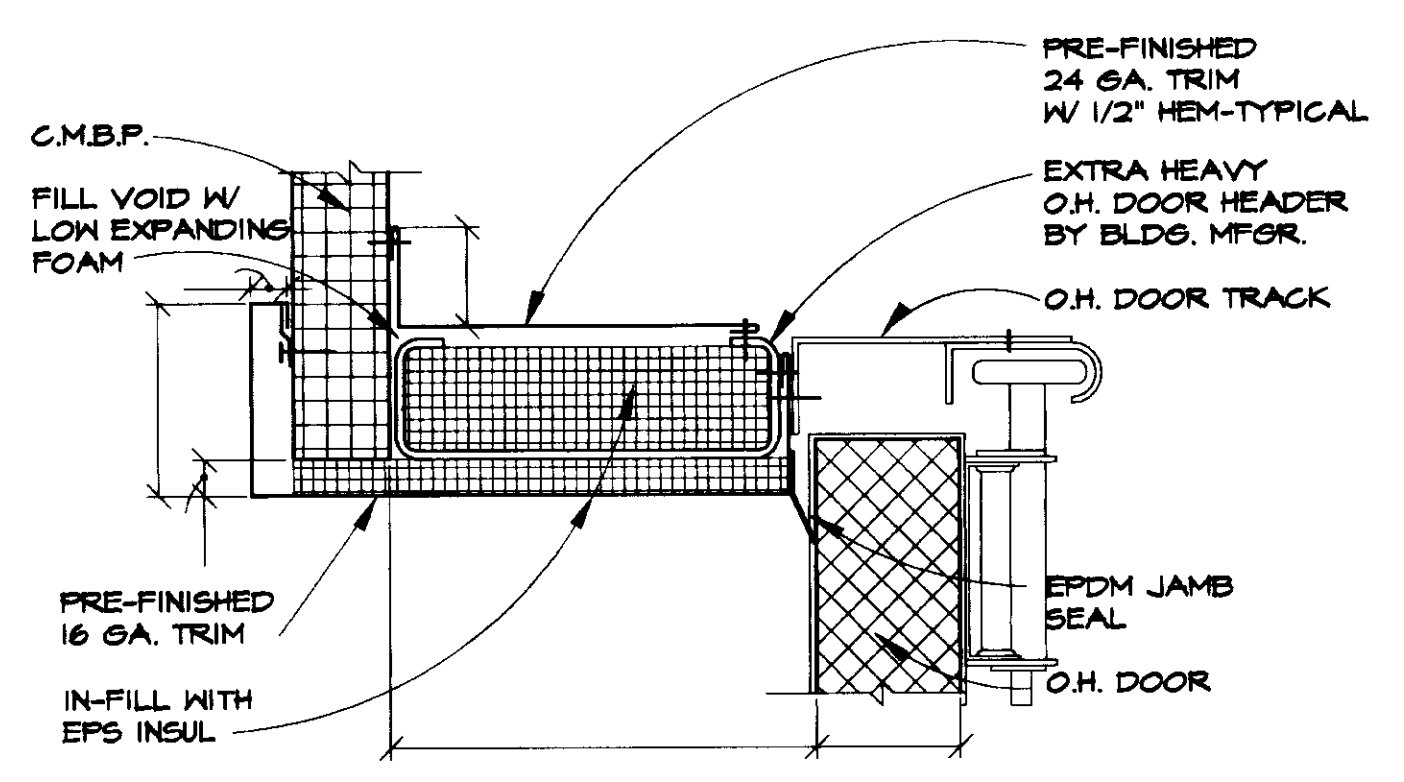
**5 EXTERIOR DOOR HEAD DETAIL**  
AT SCALE: 3"=1'-0"



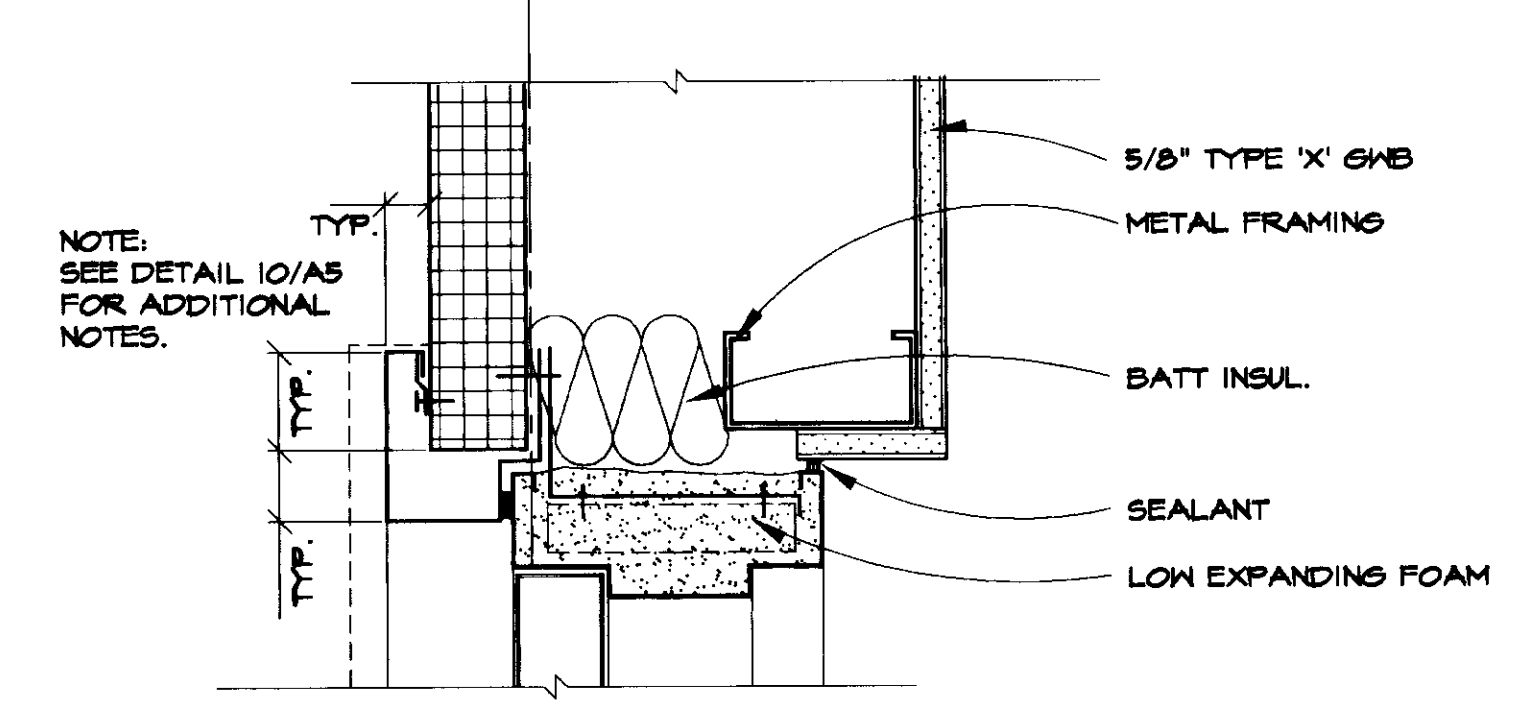
**6 TYPICAL EXTERIOR DOOR HEAD**  
AT SCALE: 3"=1'-0"



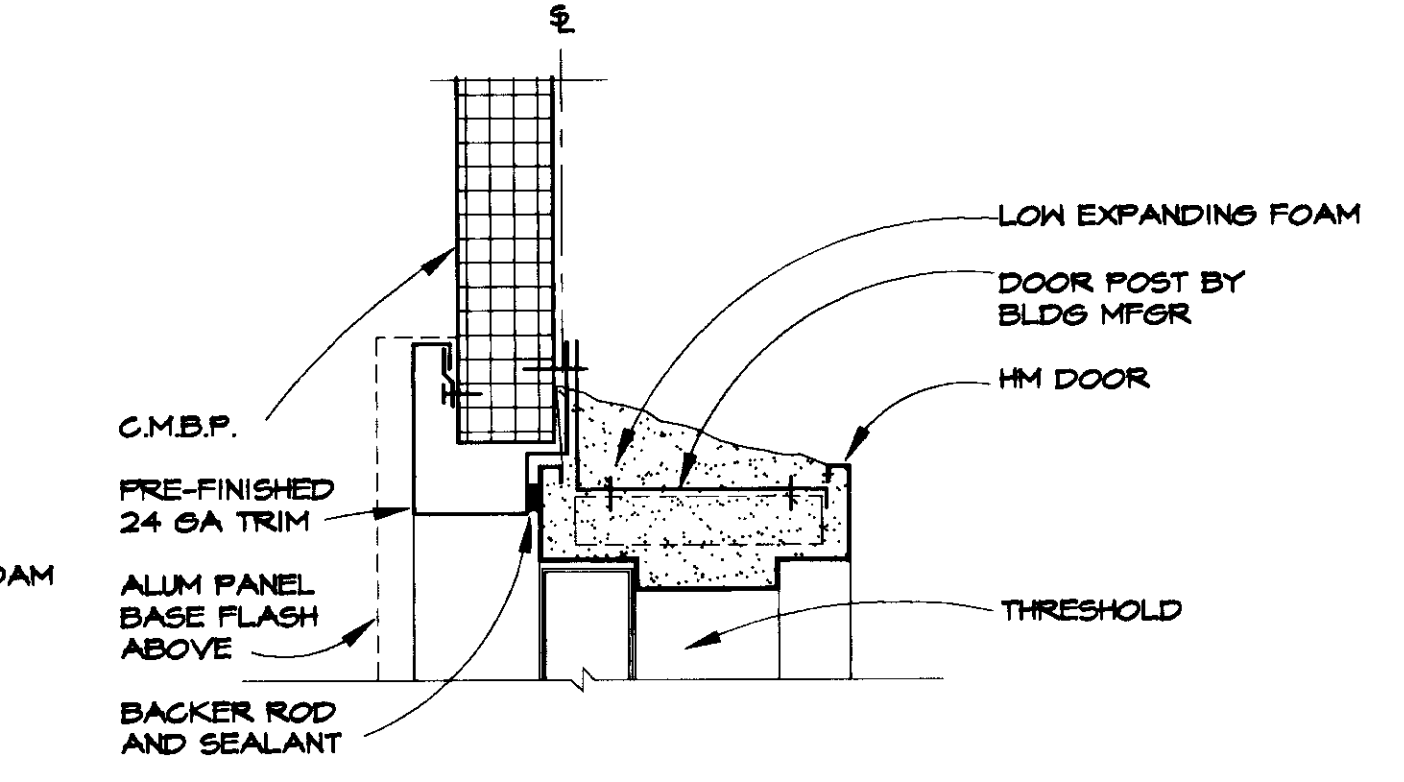
**7 INT. DOOR HEAD/JAMB DETAIL**  
AT SCALE: 3"=1'-0"



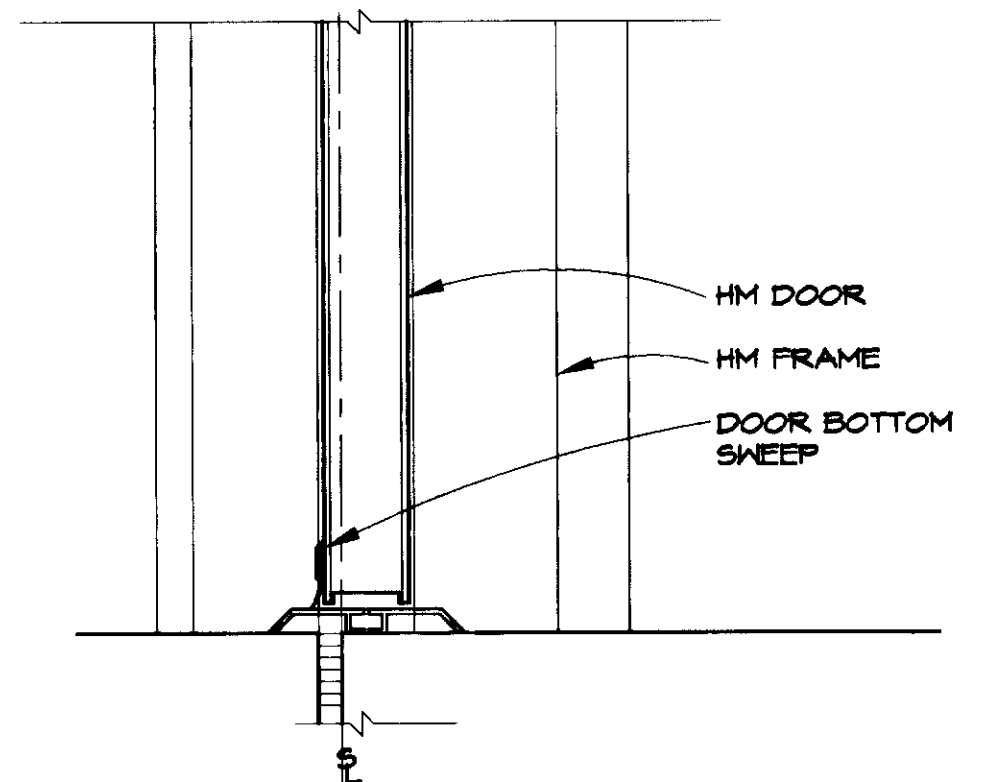
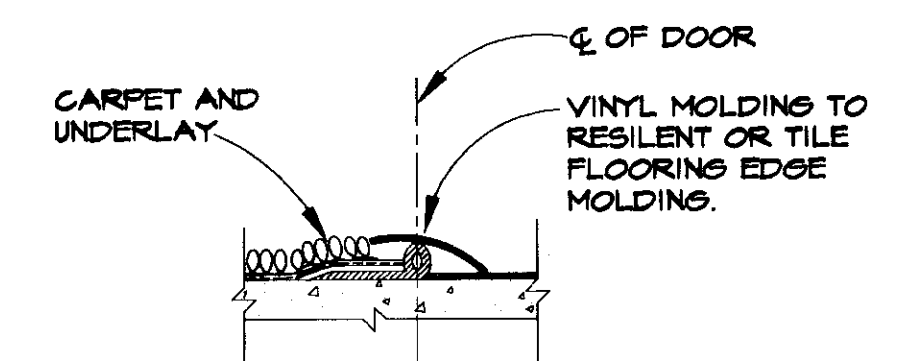
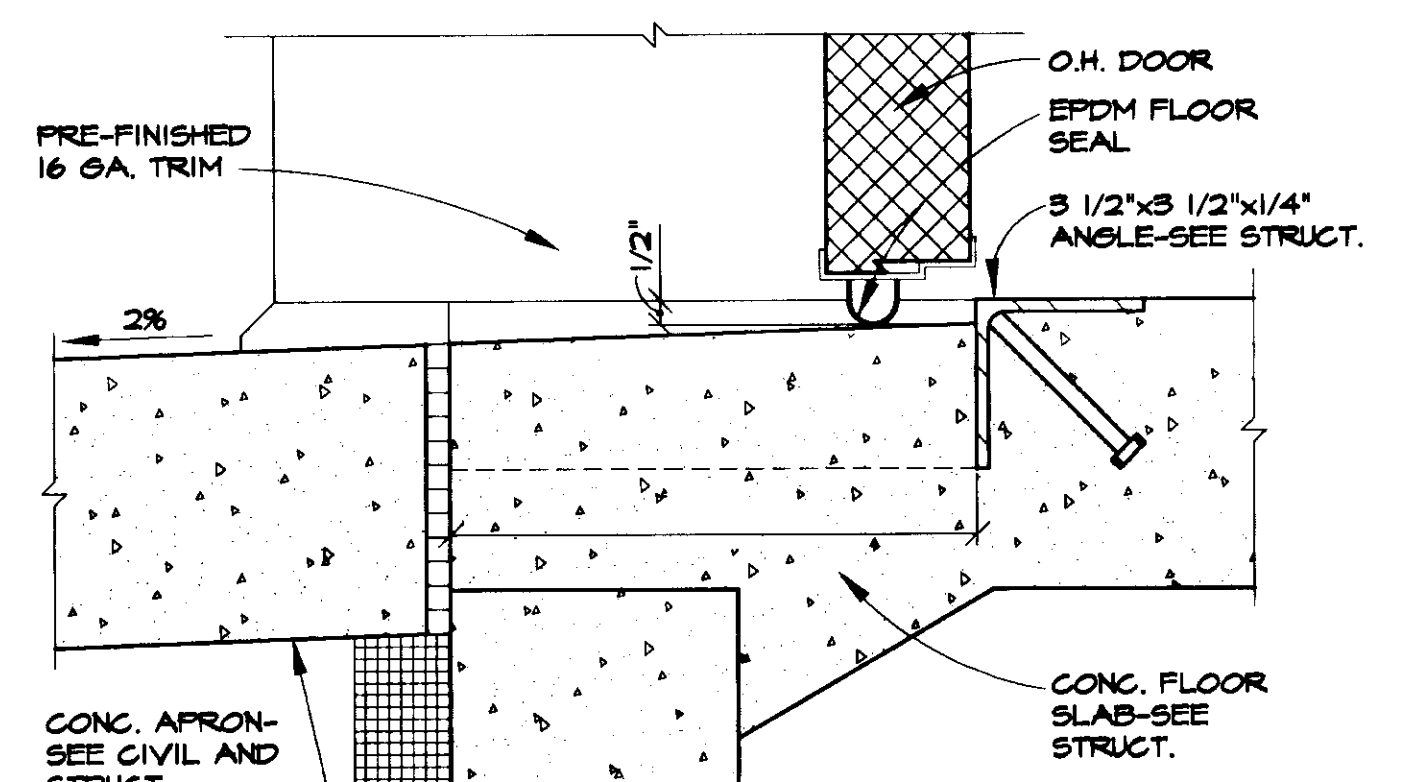
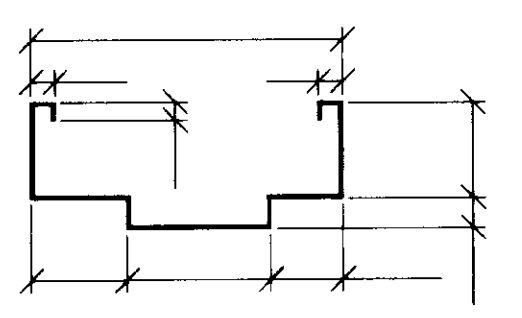
**8 OVERHEAD DOOR JAMB DETAIL**  
AT SCALE: 3"=1'-0"



**9 EXTERIOR DOOR JAMB DETAIL**  
AT SCALE: 3"=1'-0"



**10 TYPICAL EXTERIOR DOOR JAMB**  
AT SCALE: 3"=1'-0"



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By	Date
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Project:  
**ARFF VEHICLE BUILDING**  
**WRANGELL, ALASKA**

Project Mgr.	L. MEARIS
Drawn	SDK
Checked	PMck
Date	4-15-96

Sheet Contents:  
**DOOR/WINDOW SCHEDULE, ELEVATIONS, AND DETAILS**

Sheet No.:

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Project:  
**ARFF  
VEHICLE  
BUILDING**

**WRANGELL,  
ALASKA**

Project Mgr. **L. MEARIG**

Drawn

Drawn **P.M.**

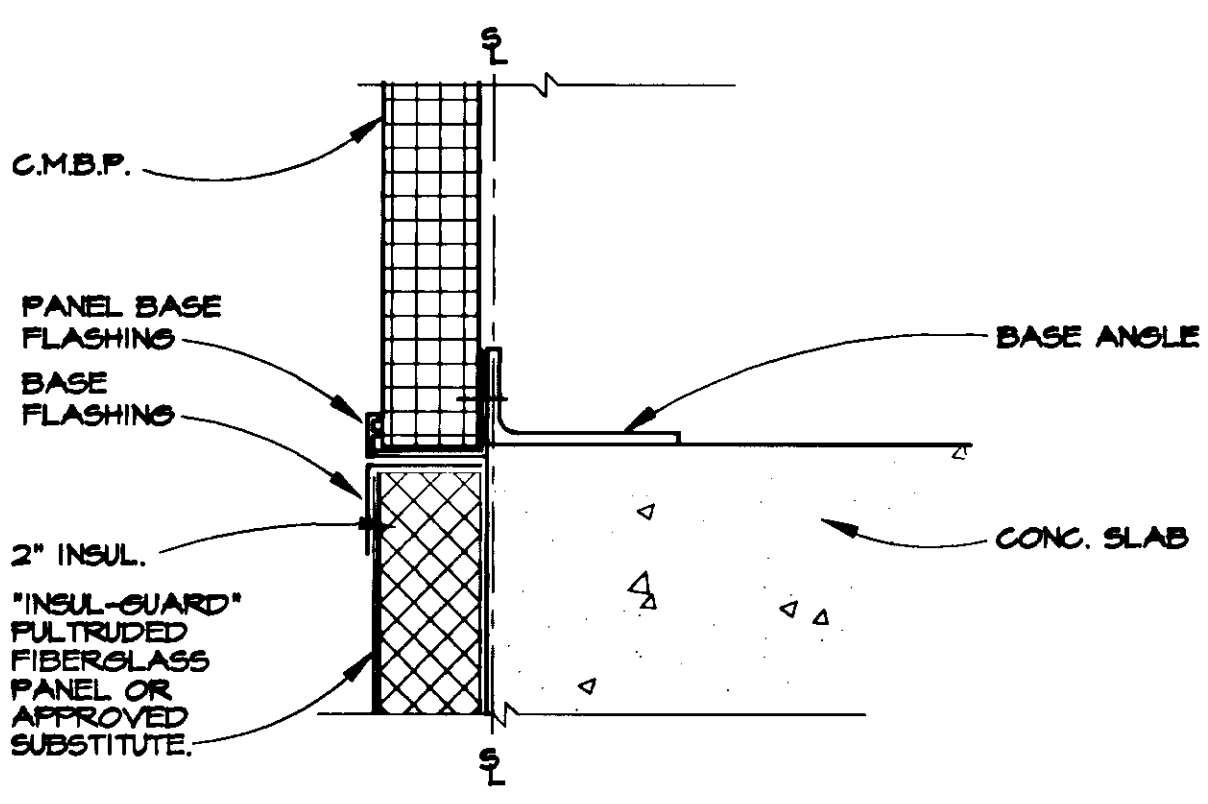
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Date **4-15-96**

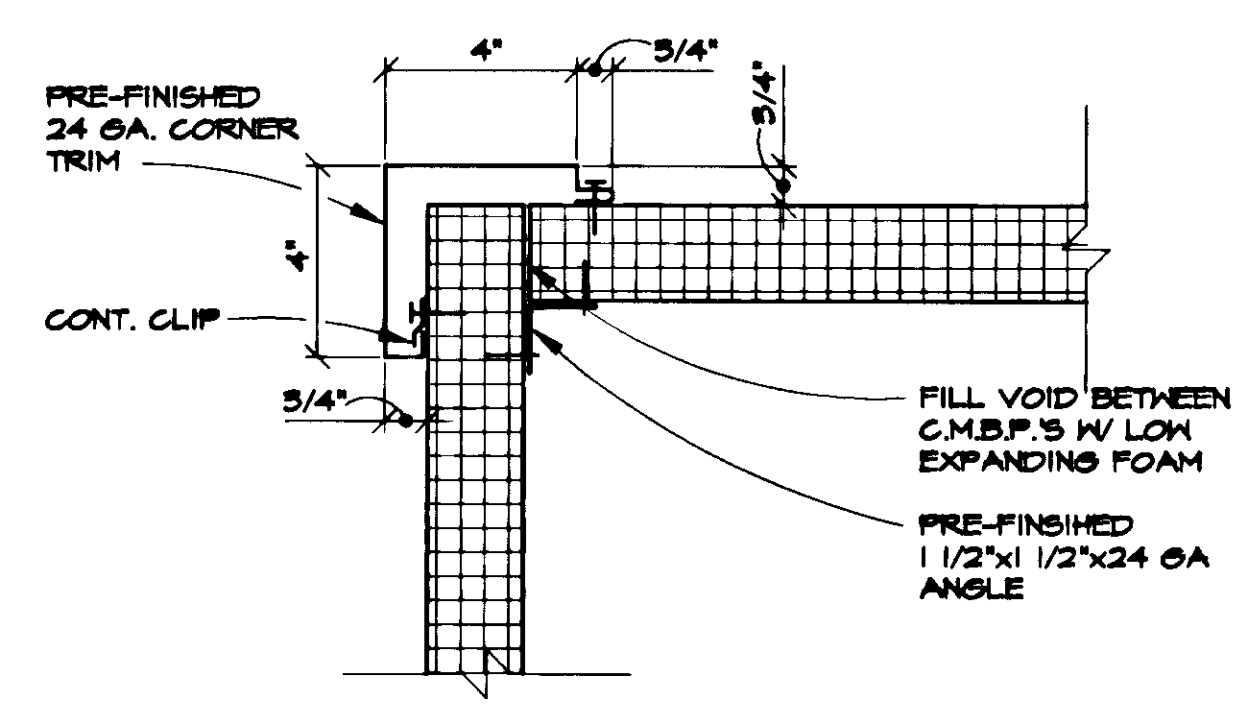
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**WINDOW,  
LOUVER AND  
MISC. DETAILS**

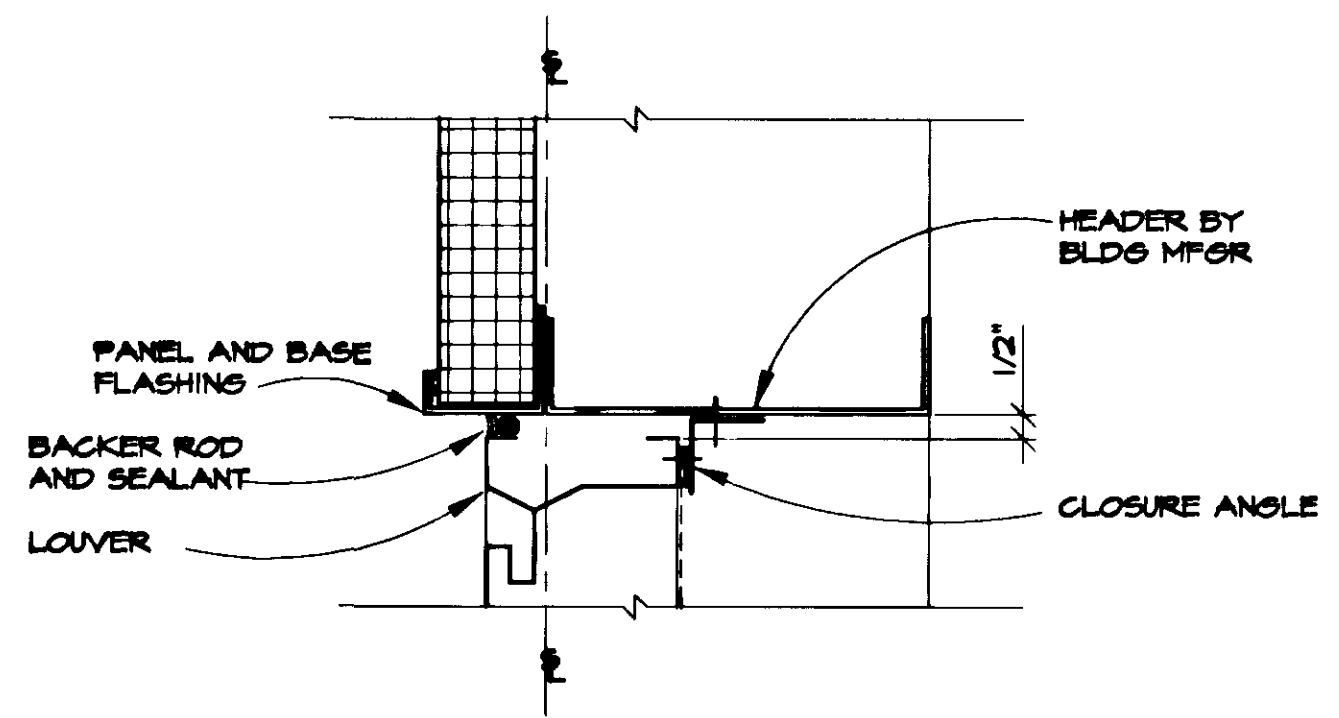
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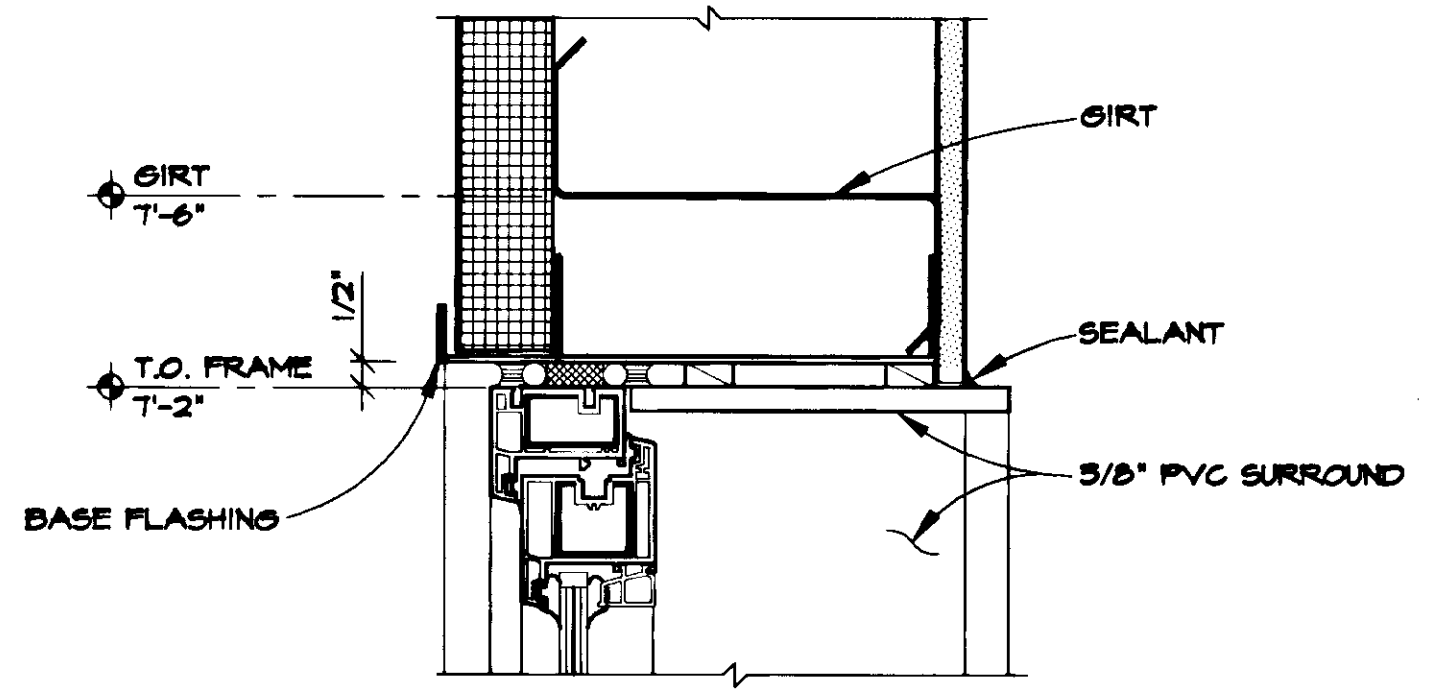
**1** PANEL BASE FLASHING DETAIL  
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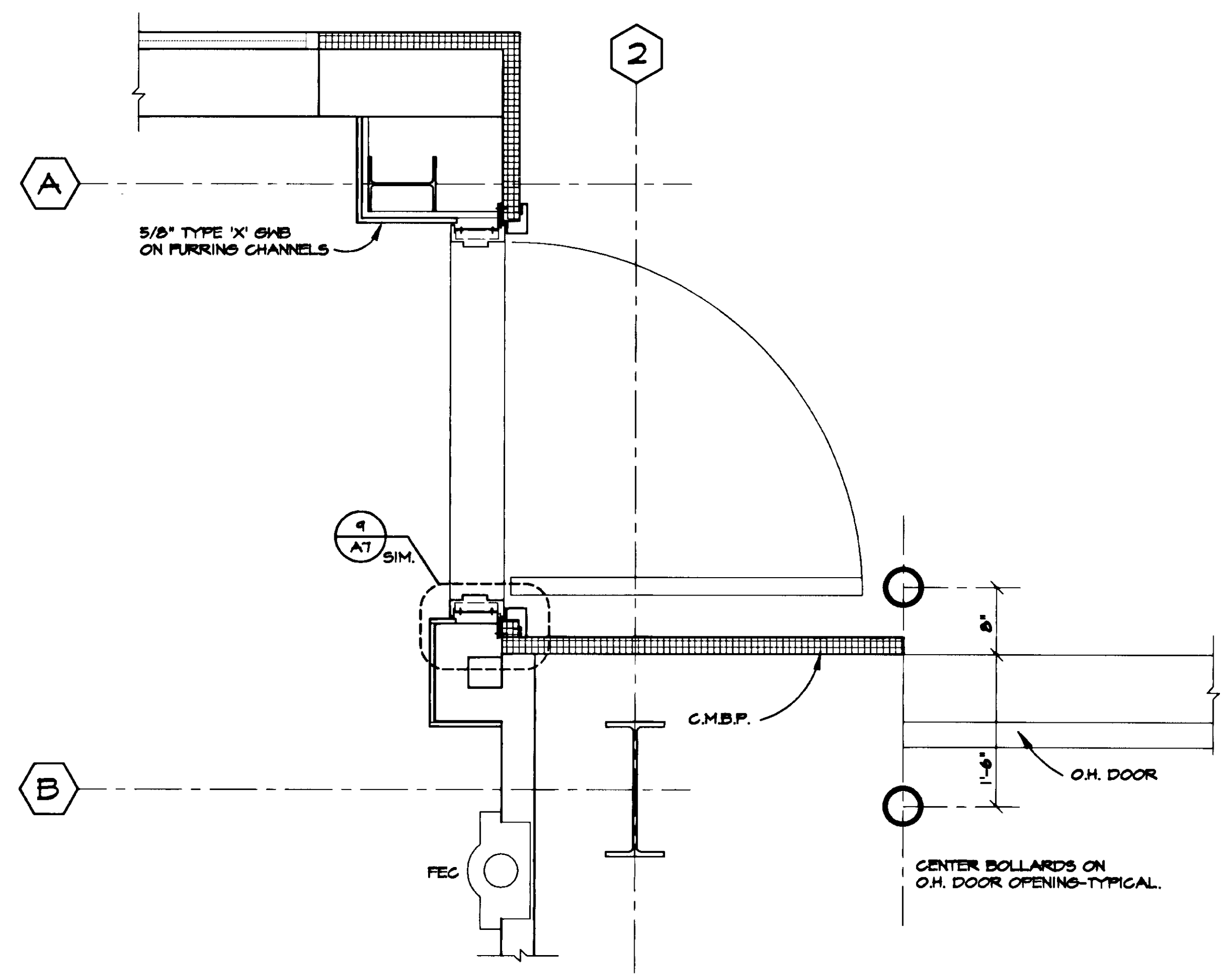
**2** OUTSIDE CORNER DETAIL  
SCALE: 3"=1'-0"



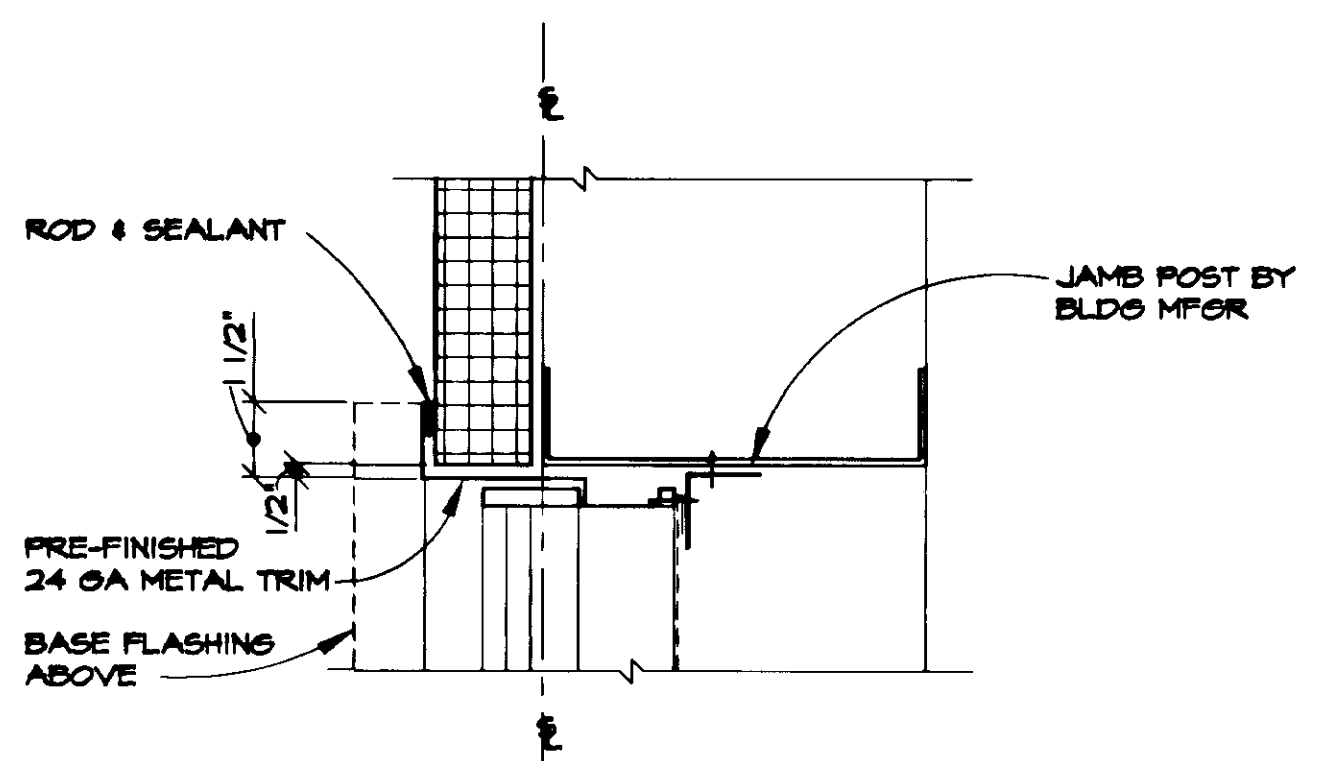
**3** LOUVER HEAD  
SCALE: 3"=1'-0"



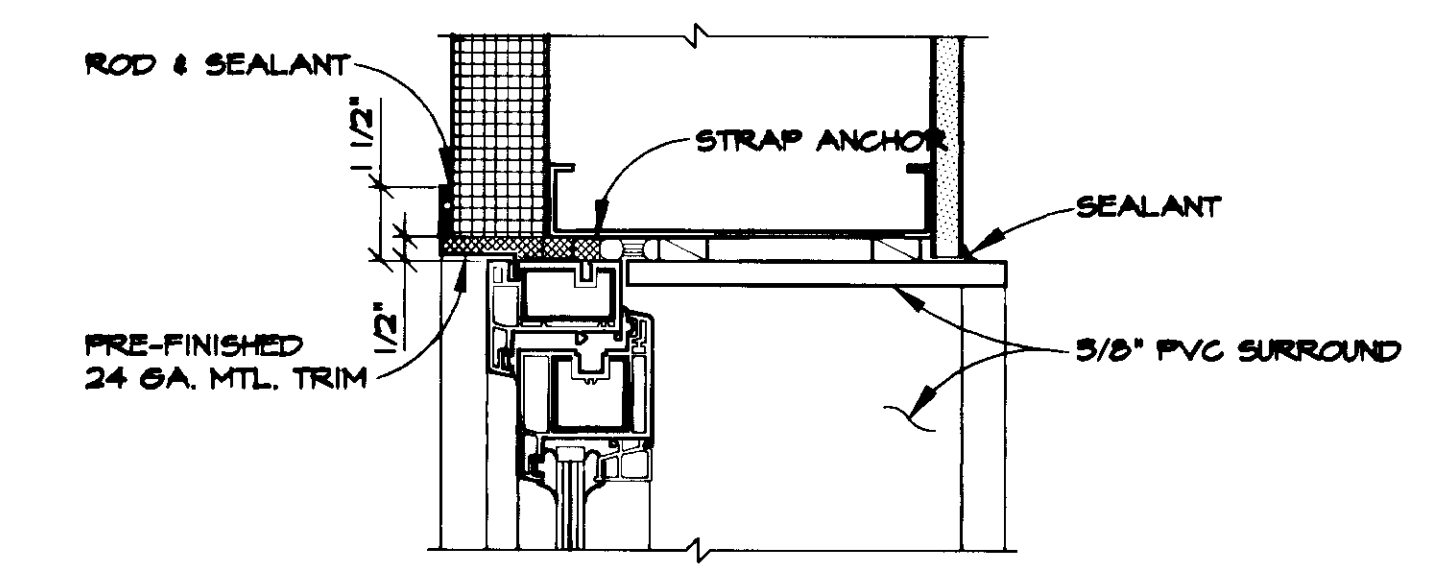
**4** WINDOW HEAD  
SCALE: 3"=1'-0"



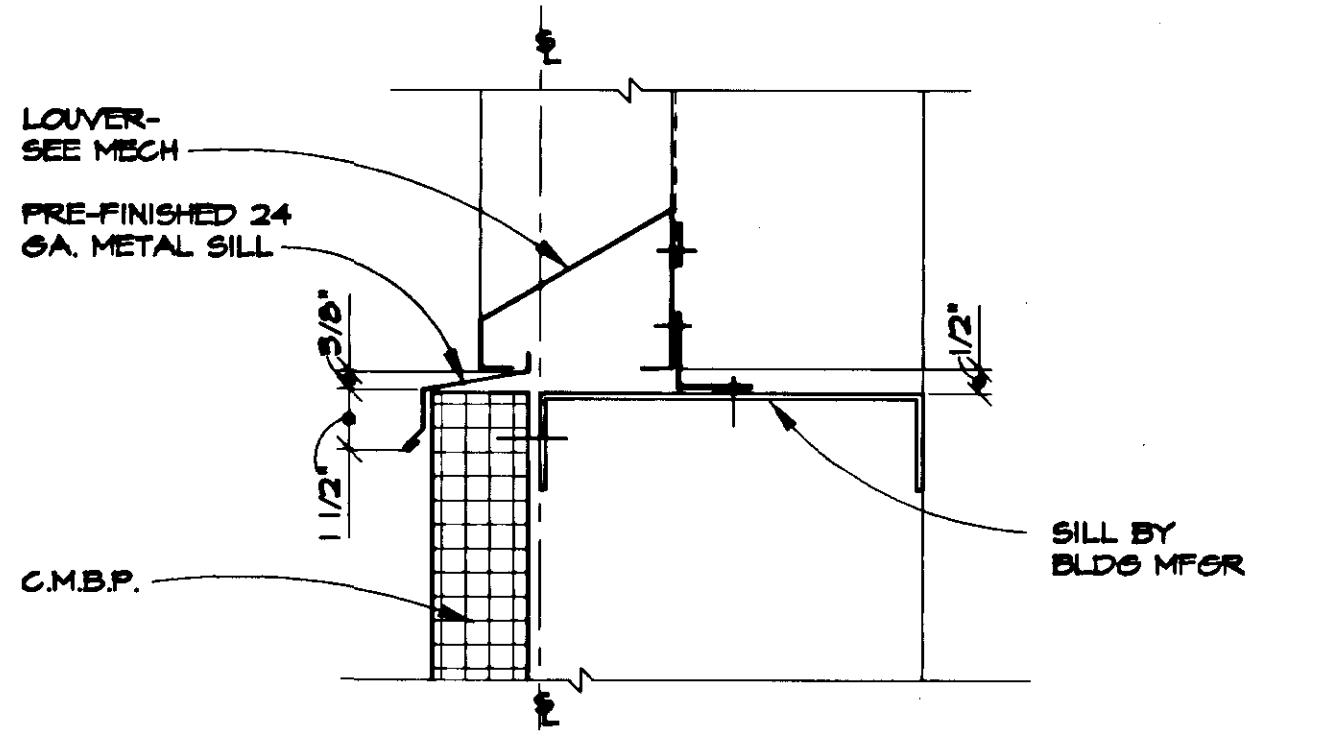
**6** SCALE: 3"=1'-0"



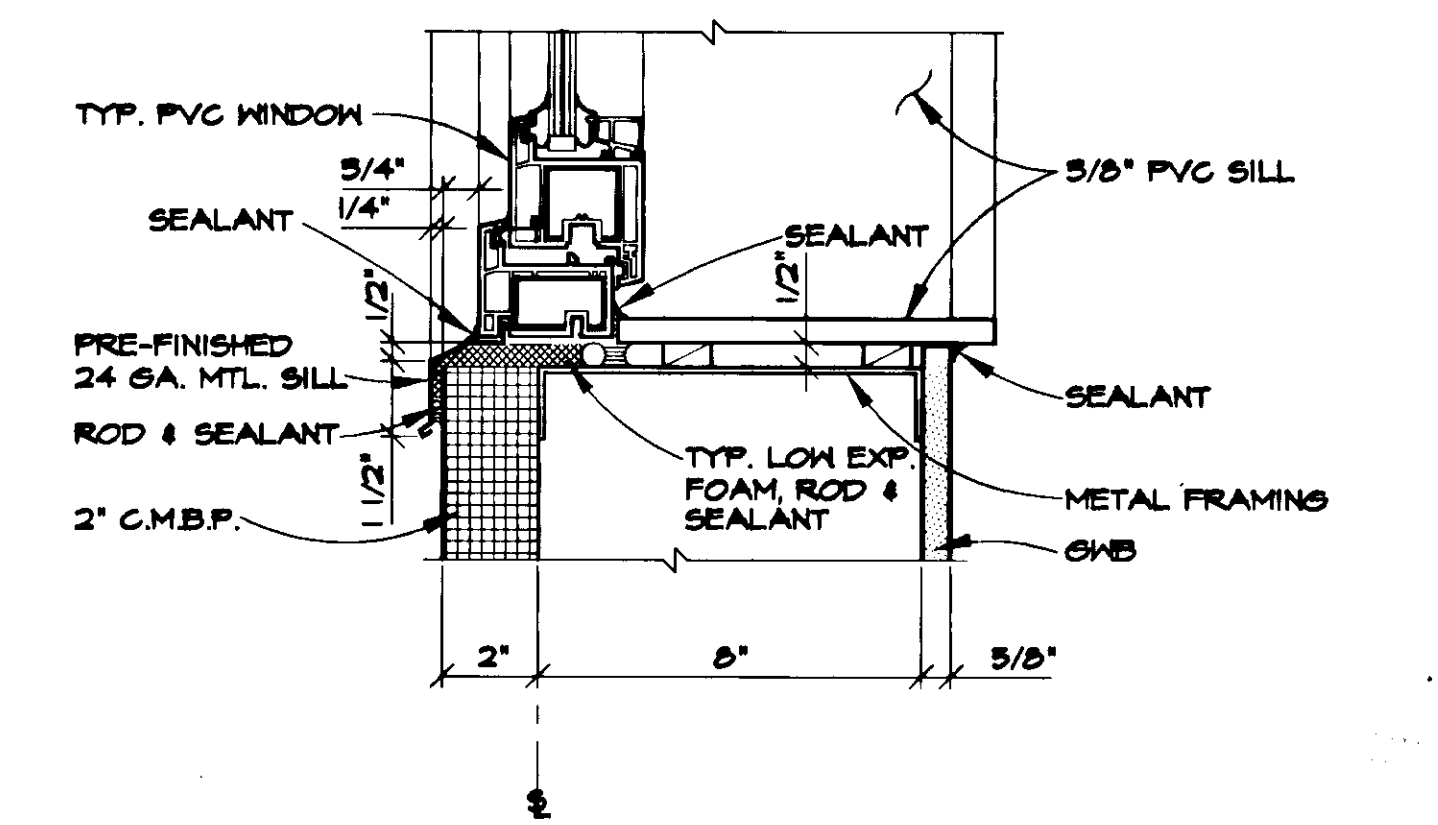
**7** LOUVER JAMB  
SCALE: 3"=1'-0"



**8** WINDOW JAMB  
SCALE: 3"=1'-0"



**7** LOUVER JAMB  
SCALE: 3"=1'-0"



**8** WINDOW JAMB  
SCALE: 3"=1'-0"

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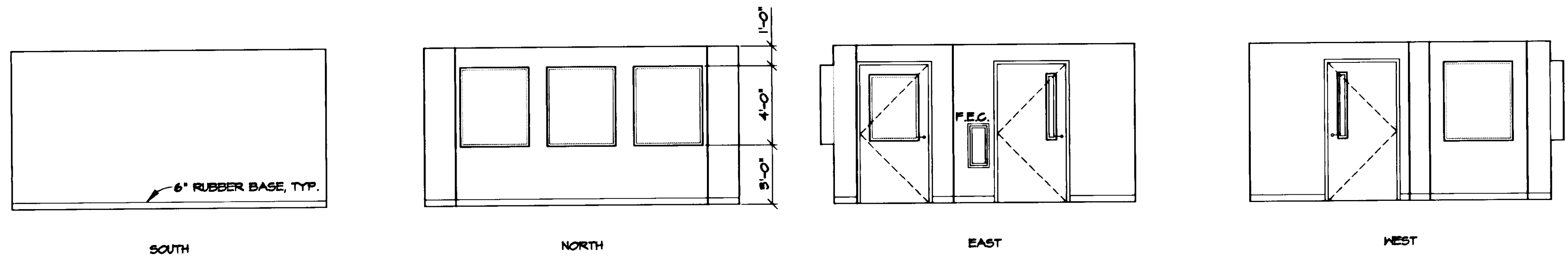
BY HG  
DATE 11-7-97

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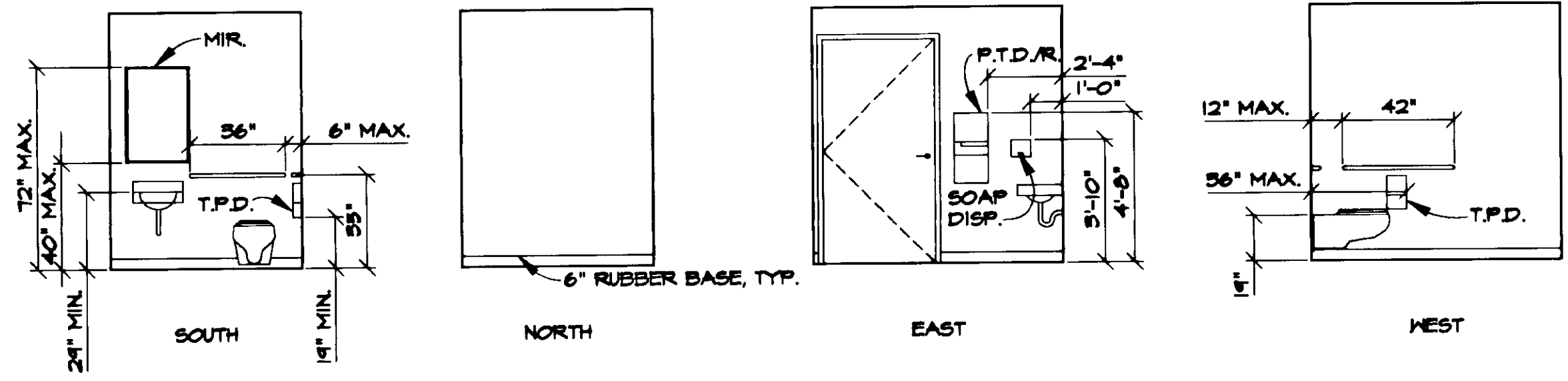
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### ROOM FINISH SCHEDULE

RM. NO.	ROOM NAME	FLOOR		BASE		WALLS								CEILING			REMARKS	RM. NO.
		MATERIAL	FINISH	MATERIAL	FINISH	NORTH		EAST		SOUTH		WEST		MATERIAL	FINISH	HEIGHT		
						MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH					
101	OFFICE	CONC.	CARPET	6" RUBBER	-	GWB	PAINT	GWB	PAINT	GWB	PAINT	GWB	PAINT	GWB	ACT	8'-0"		101
102	TOILET	CONC.	VCT	6" RUBBER	-	GWB	PAINT	GWB	PAINT	GWB	PAINT	GWB	PAINT	GWB	ACT	8'-0"		102
103	MECHANICAL	CONC.	SEALER/HARDENER	6" RUBBER/C.M.B.P.	NORTH, EAST & SOUTH	GWB	PAINT	GWB	PAINT	GWB	PAINT	C.M.B.P.	FF	FF	-	VARIES		103
104	TRAINING	CONC.	CARPET	6" RUBBER	-	GWB	PAINT	GWB	PAINT	GWB	PAINT	GWB	PAINT	GWB	ACT	8'-0"		104
105	STORAGE	CONC.	SEALER/HARDENER	6" RUBBER/C.M.B.P.	NORTH	GWB	PAINT	C.M.B.P.	FF	C.M.B.P.	FF	C.M.B.P.	FF	FF	-	VARIES		105
106	VEHICLE	CONC.	SEALER/HARDENER	6" RUBBER/C.M.B.P.	-	C.M.B.P.	FF	C.M.B.P.	FF	C.M.B.P.	FF	C.M.B.P.	FF	FF	-	VARIES		106



1 OFFICE-101  
A9 SCALE: 1/4"=1'-0"



2 TOILET-102  
A9 SCALE: 1/4"=1'-0"

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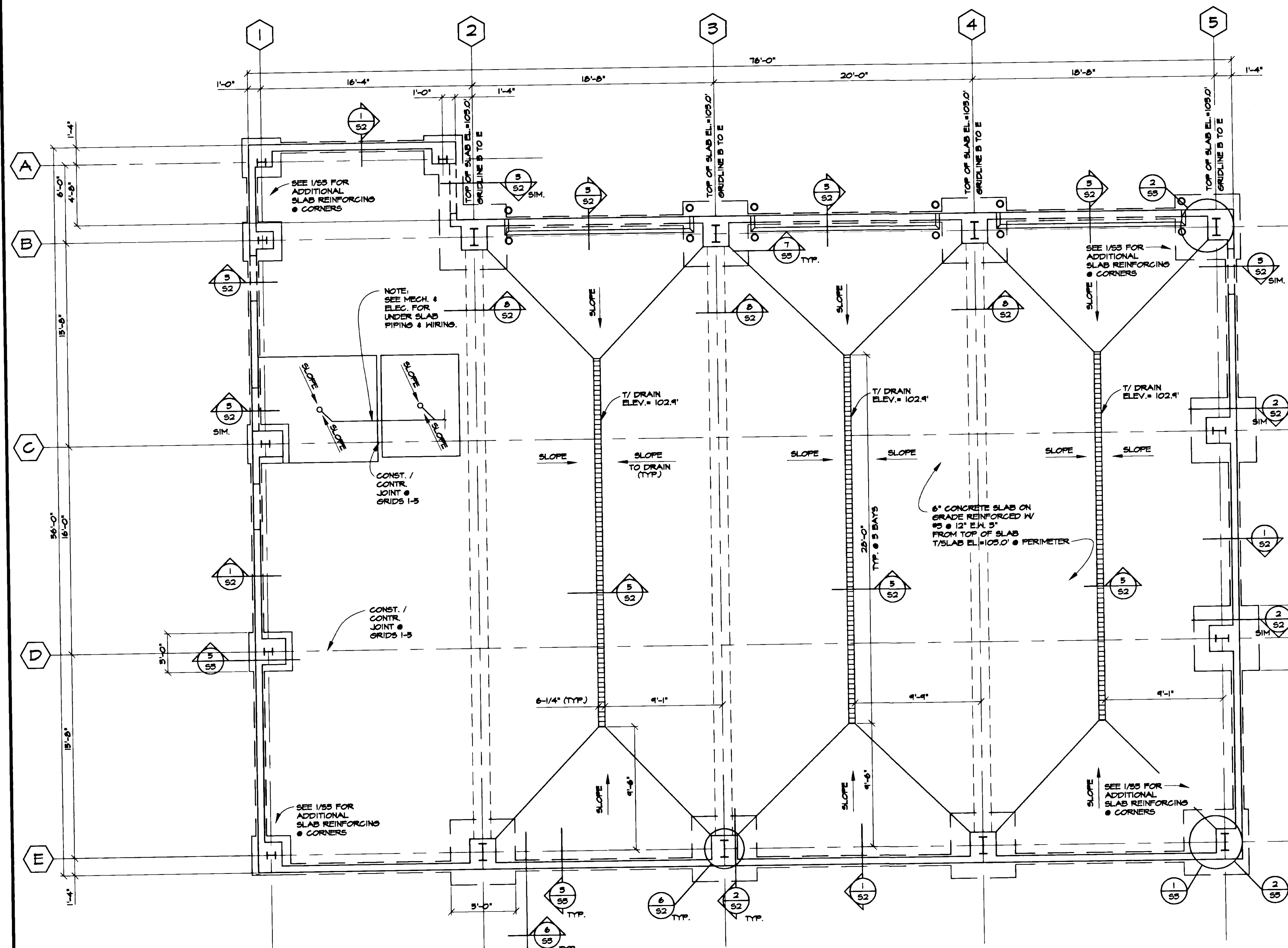
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Project:  
**ARFF  
VEHICLE  
BUILDING**  
**WRANGELL,  
ALASKA**

Project Mgr.	L. MEARIS
Drawn	SDK
Drawn	JLL
Checked	PMck
Date	4-15-96

Sheet Contents:  
**INTERIOR  
FINISH  
SCHEDULE &  
ELEVATIONS**

Sheet No.:



**GENERAL NOTES:**

THIS STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE 1991 UNIFORM BUILDING CODE. CONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. NOTIFY THE ARCHITECT / ENGINEER IN WRITINGS OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONSTRUCTION PRIOR TO PROCEEDING WITH WORK.

**DESIGN LOADS:**

ROOF:	SNOW	50 PSF + DRIFTING
SEISMIC:	ZONE	4
	IMPORTANCE	1.25
WIND:	BASIC WIND SPEED	100 MPH
	EXPOSURE	C
	IMPORTANCE	1.15

**FOUNDATION:**

SOIL BEARING PRESSURES ARE 4000 PSF FOR SUSTAINED LOADS AND 5000 PSF FOR TOTAL DESIGN LOADS INCLUDING WIND AND SEISMIC. REFER TO C2, SECTION A-A FOR EXCAVATION, BACKFILL AND COMPACTION.

**CONCRETE:**

MIXING AND PLACING OF CONCRETE AND SELECTION OF MATERIALS SHALL BE IN ACCORDANCE WITH THE UBC AND ACI CODE 518-85. PROPORTIONS OF AGGREGATE TO CEMENT SHALL BE SUCH AS TO PRODUCE A DENSE WORKABLE MIX WHICH CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER. NORMAL WEIGHT CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.

**REINFORCING STEEL:**

REINFORCING STEEL SHALL CONFORM TO ASTM A-615-82, GRADE 60. ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH ACI 518-85 AND ACI 515. HOLD IN PLACE WITH CURED CONCRETE BLOCKS OR CHAIRS. MINIMUM COVER FOR REINFORCING STEEL SHALL BE:

CONCRETE PLACED ON GROUND	5"
FORMED SURFACE	1-1/2"
INTERIOR EXPOSED SURFACES	5/4"

FOR CONTINUOUS REINFORCING, USE A MINIMUM LAP SPLICE FOR:

BAR SIZE	5000 PSI
#4	20"
#5	20"
#6	22"

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Project:  
**ARFF  
VEHICLE  
BUILDING**  
  
WRANGELL,  
ALASKA

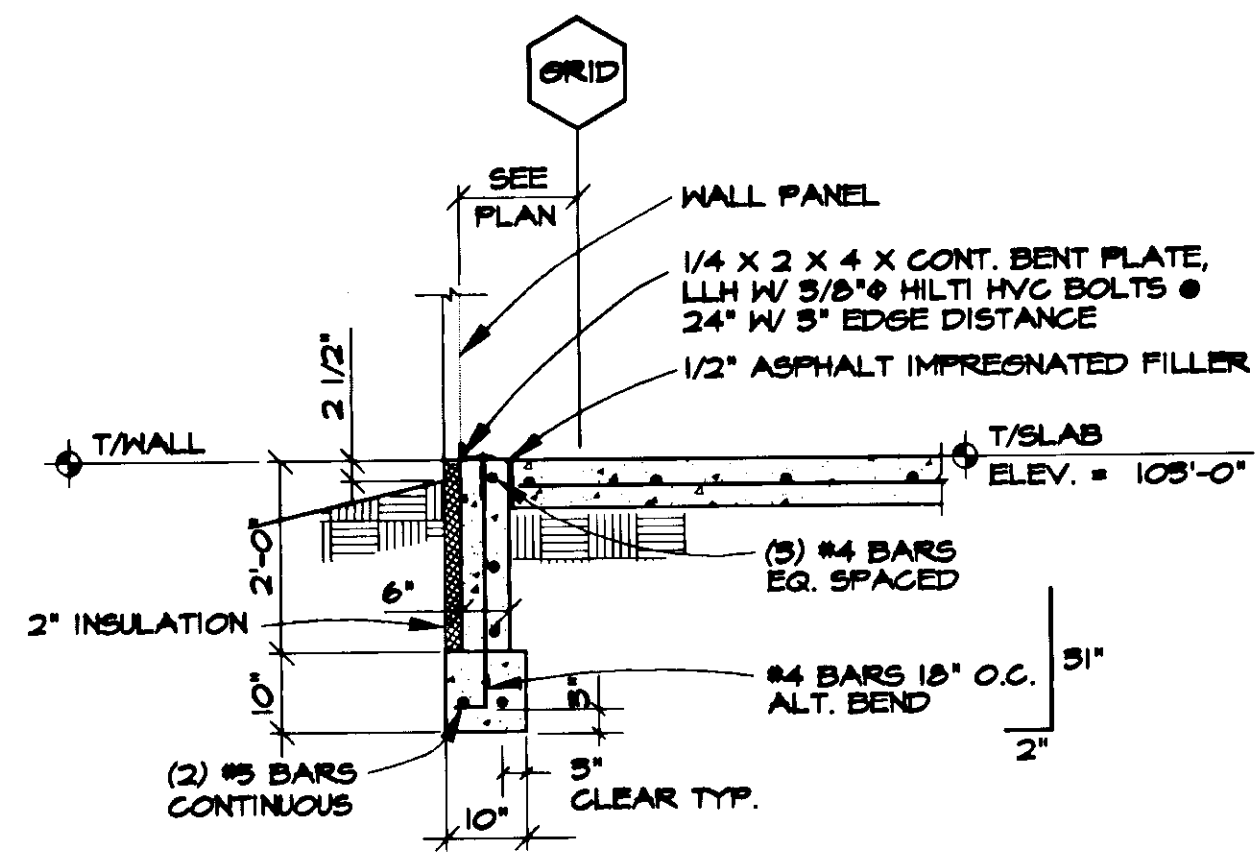
Project Mgr.	L. MEARIS
Drawn	BEH
Drawn	PLS
Checked	BEH J.H.
Date	4-15-96

Sheet Contents:  
**FOUNDATION /  
SLAB PLAN**

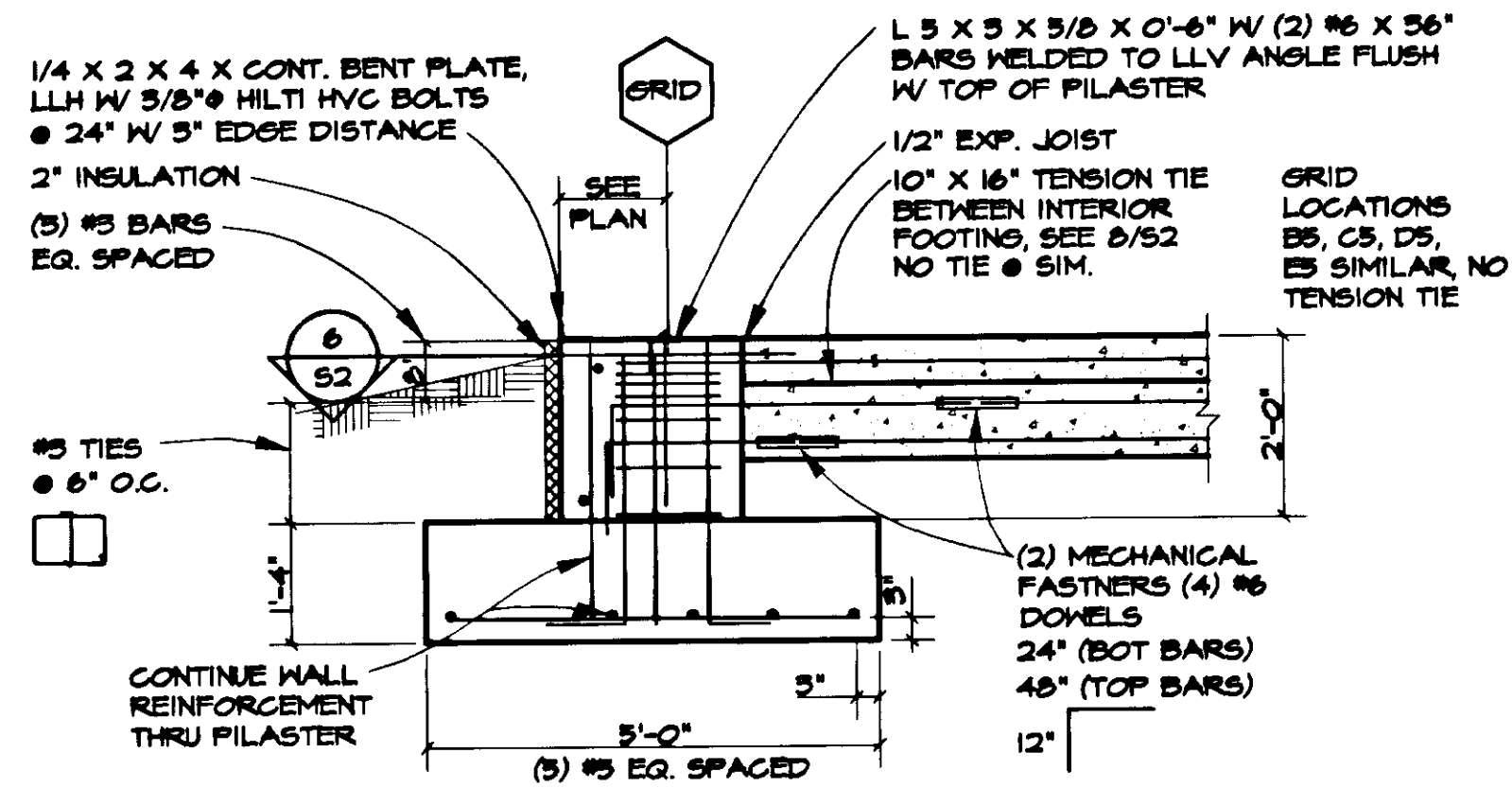
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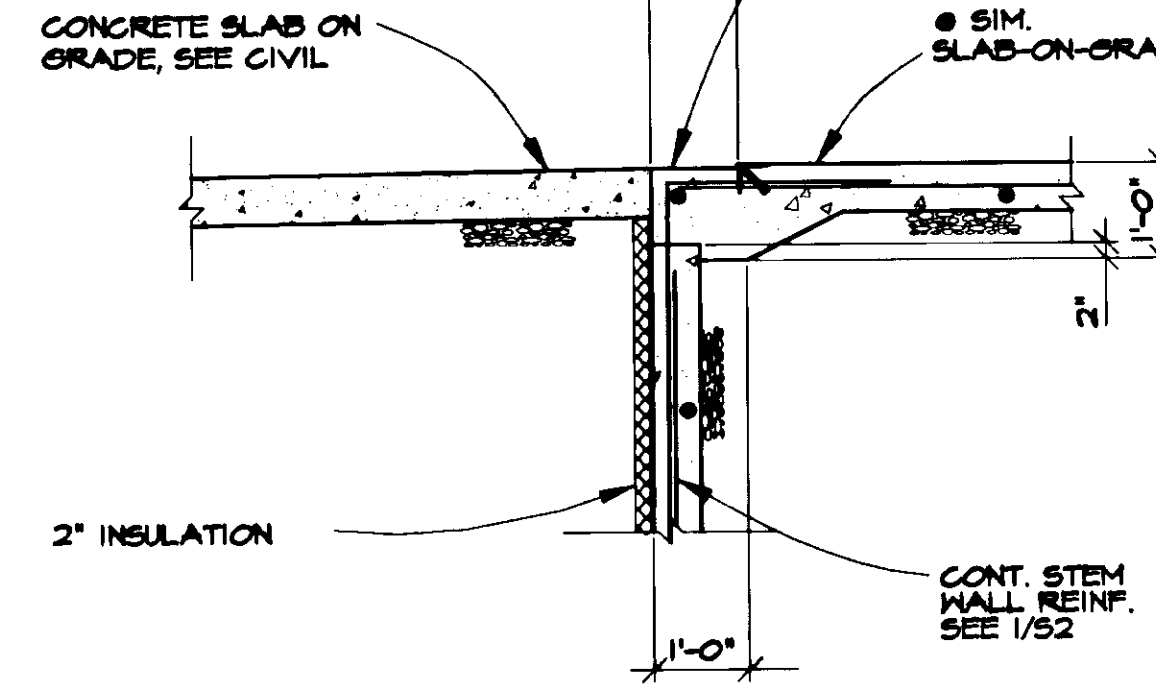




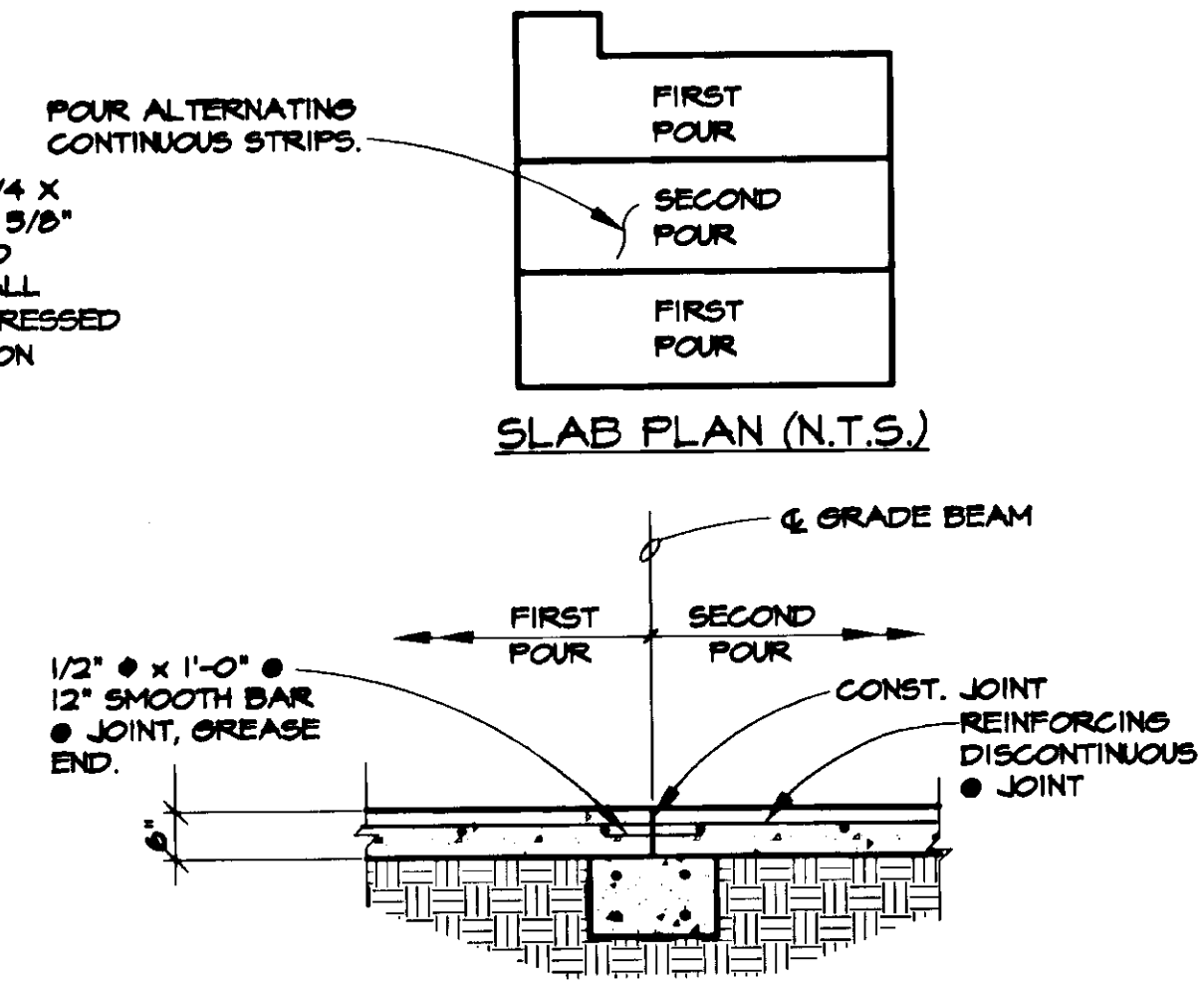
1 STEM WALL SECTION  
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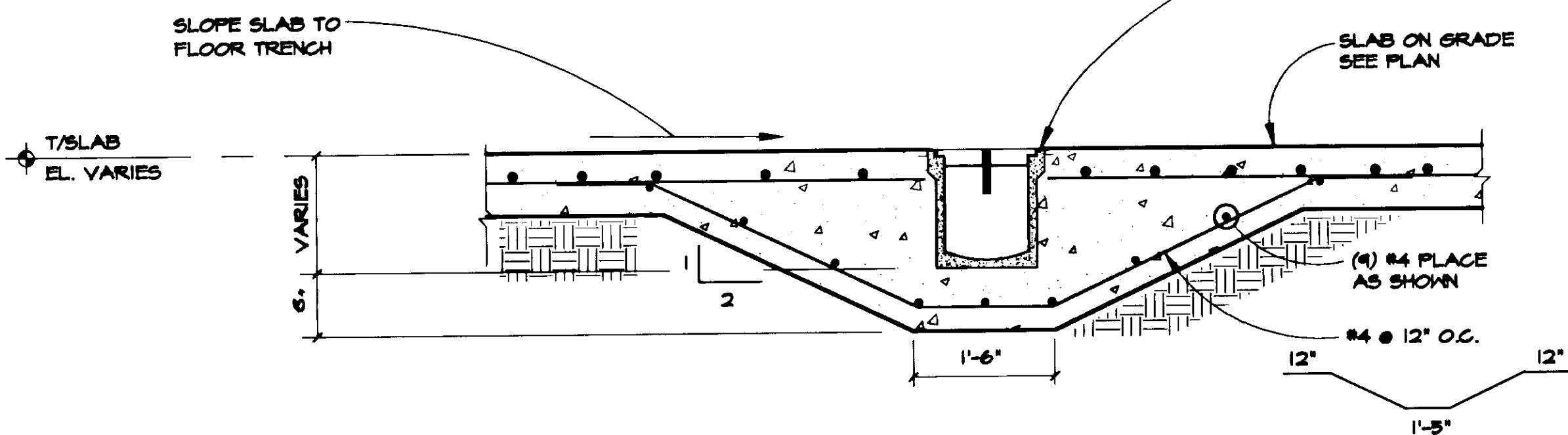
2 TYPICAL PILASTER  
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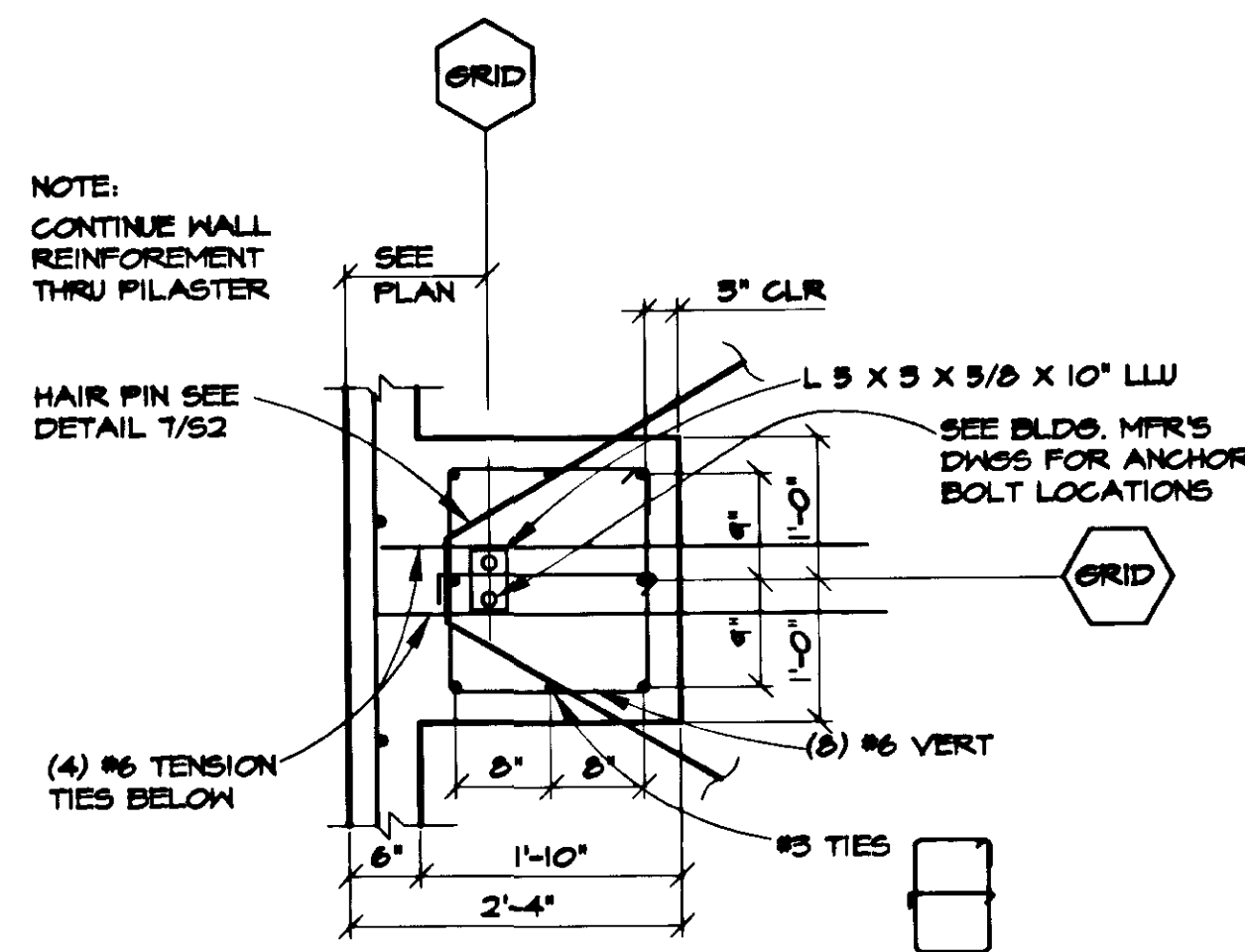
3 NOSING AT OVERHEAD DOORS  
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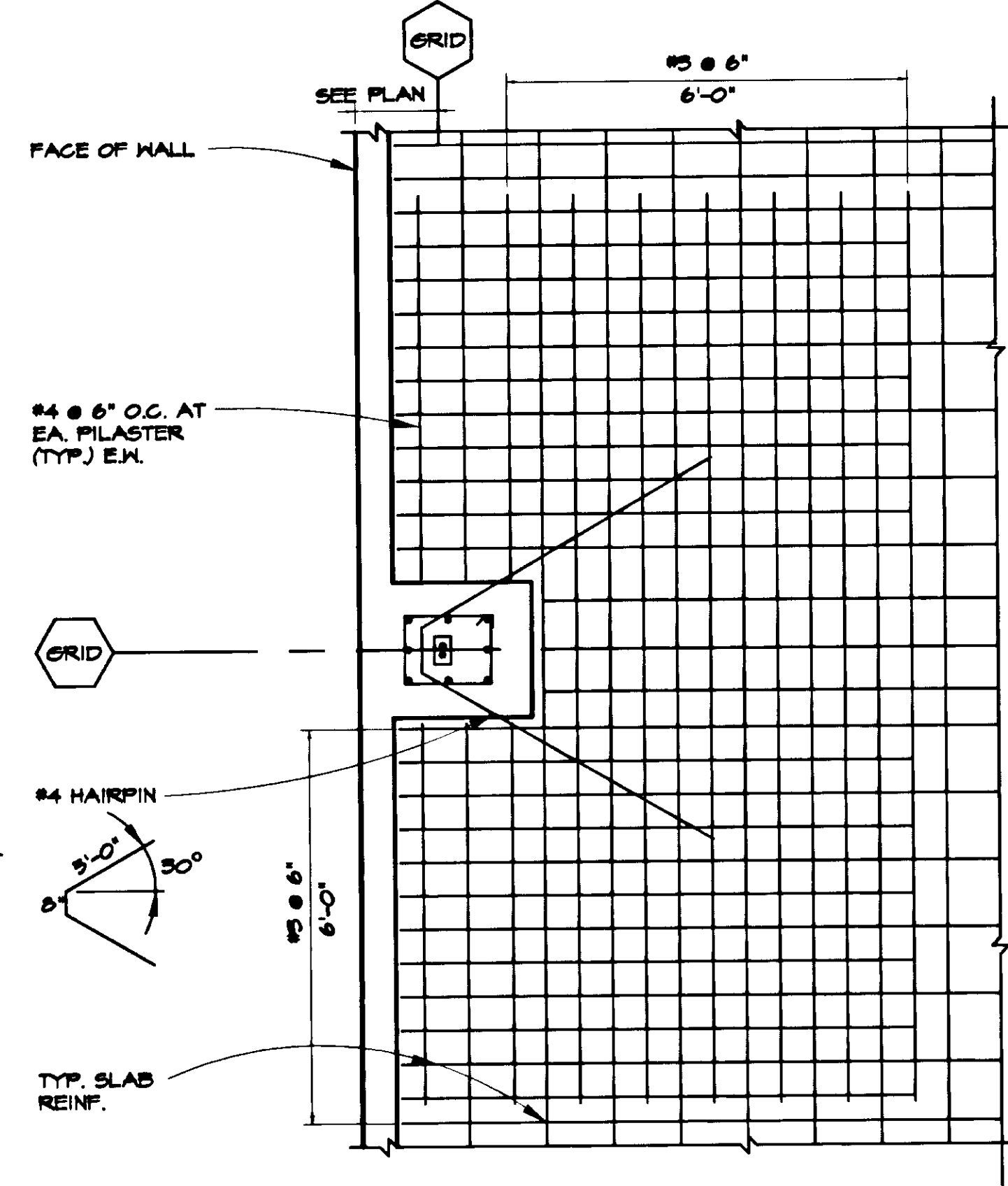
4 TYP. SLAB CONSTRUCTION JOINT  
SCALE: N.T.S.



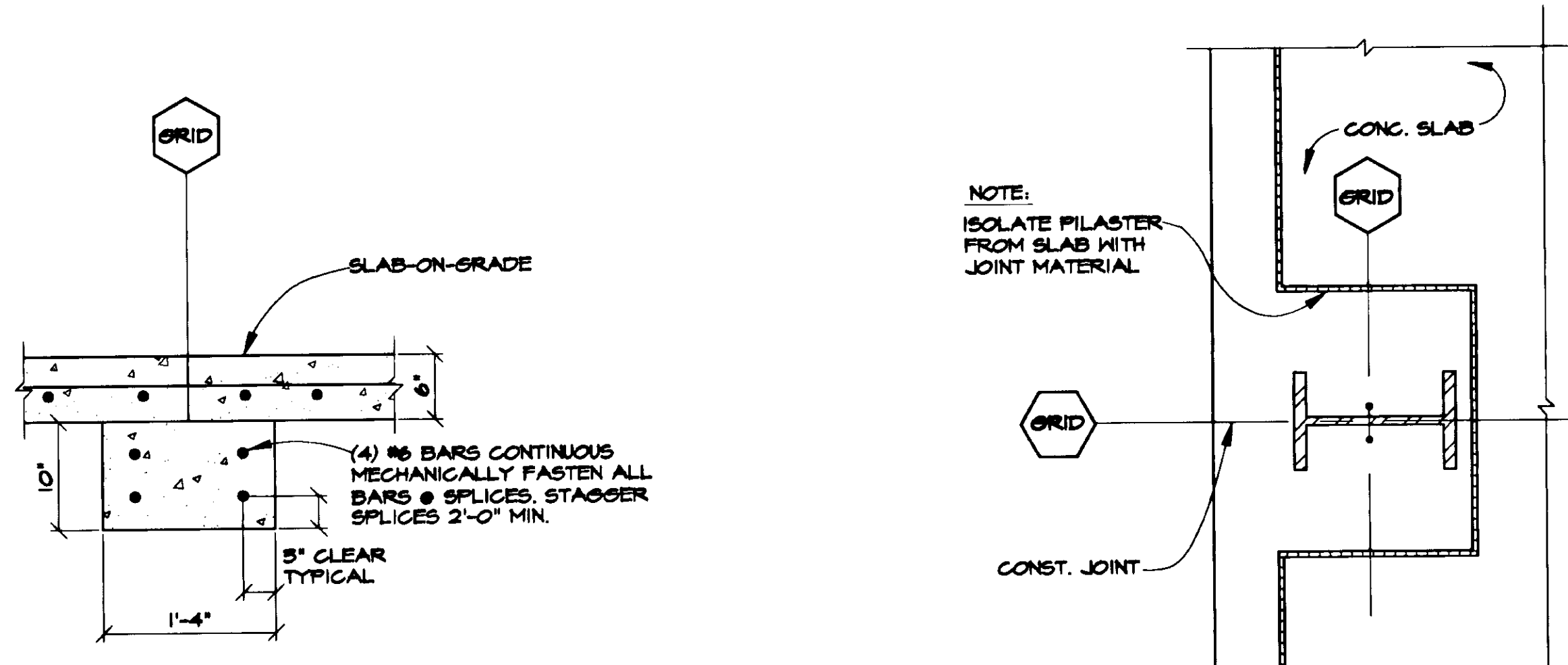
5 SECTION THRU FLOOR TRENCH  
SCALE: 3/4"=1'-0"



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



7 ADDITIONAL SLAB REINF. @ PILASTER  
SCALE: 1/2"=1'-0"



NOTE:  
ISOLATE PILASTER  
FROM SLAB WITH  
JOINT MATERIAL

GRID

CONST. JOINT

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Project:  
**ARFF  
VEHICLE  
BUILDING**  
**WRANGELL,  
ALASKA**

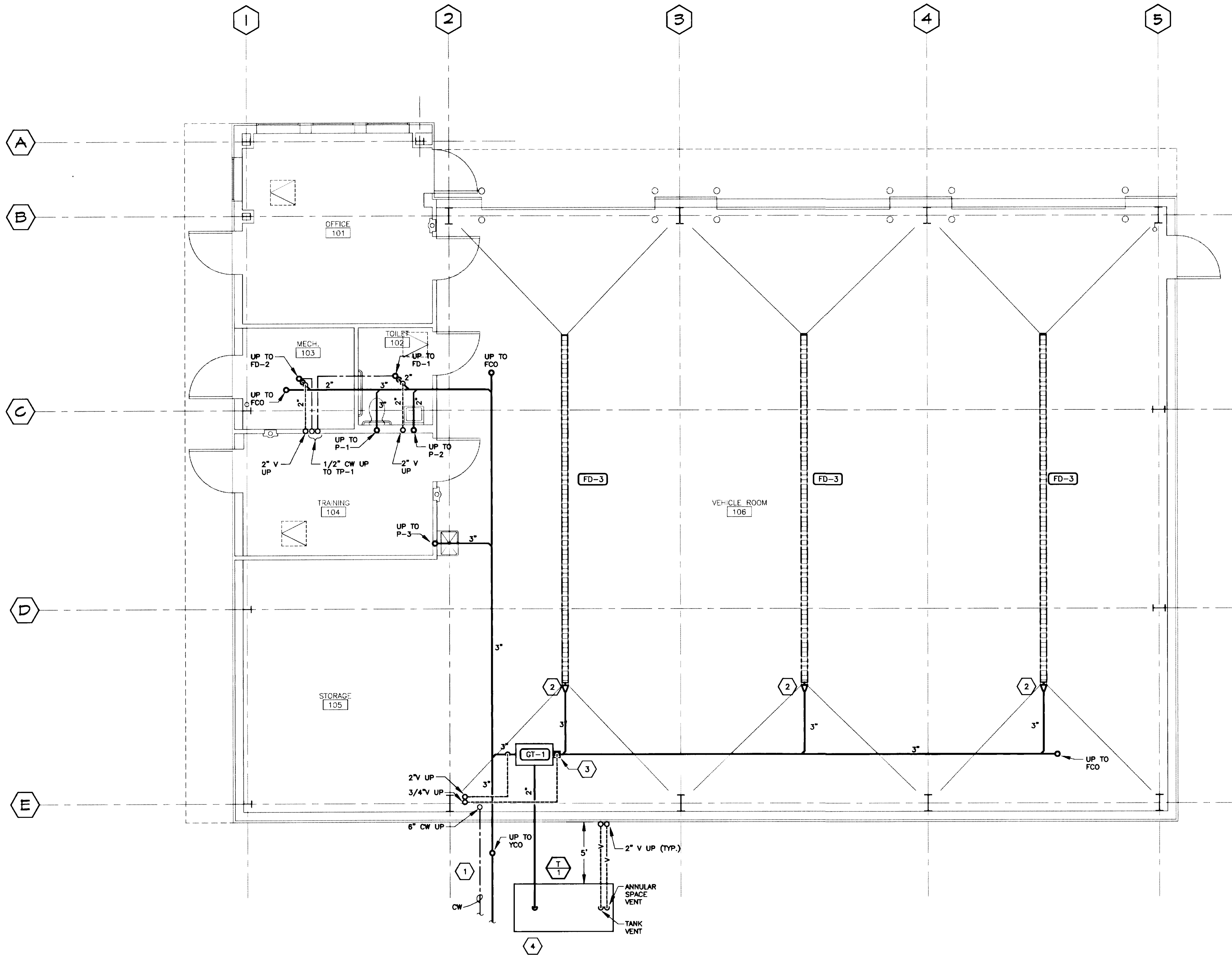
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Drawn	PLS
Checked	BEH J.H.
Date	4-15-96

Sheet Contents:  
**FOUNDATION  
SECTIONS  
& DETAILS**

Sheet No.:







**GENERAL NOTES**

- 1 SEE CML DRAWINGS FOR CONTINUATION.
- 2 4 X 3 REDUCER.
- 3 FLOW CONTROL FITTING WITH 3/4" AIR VENT.
- 4 FOR TANK BURY DETAILS SEE 7/M5.

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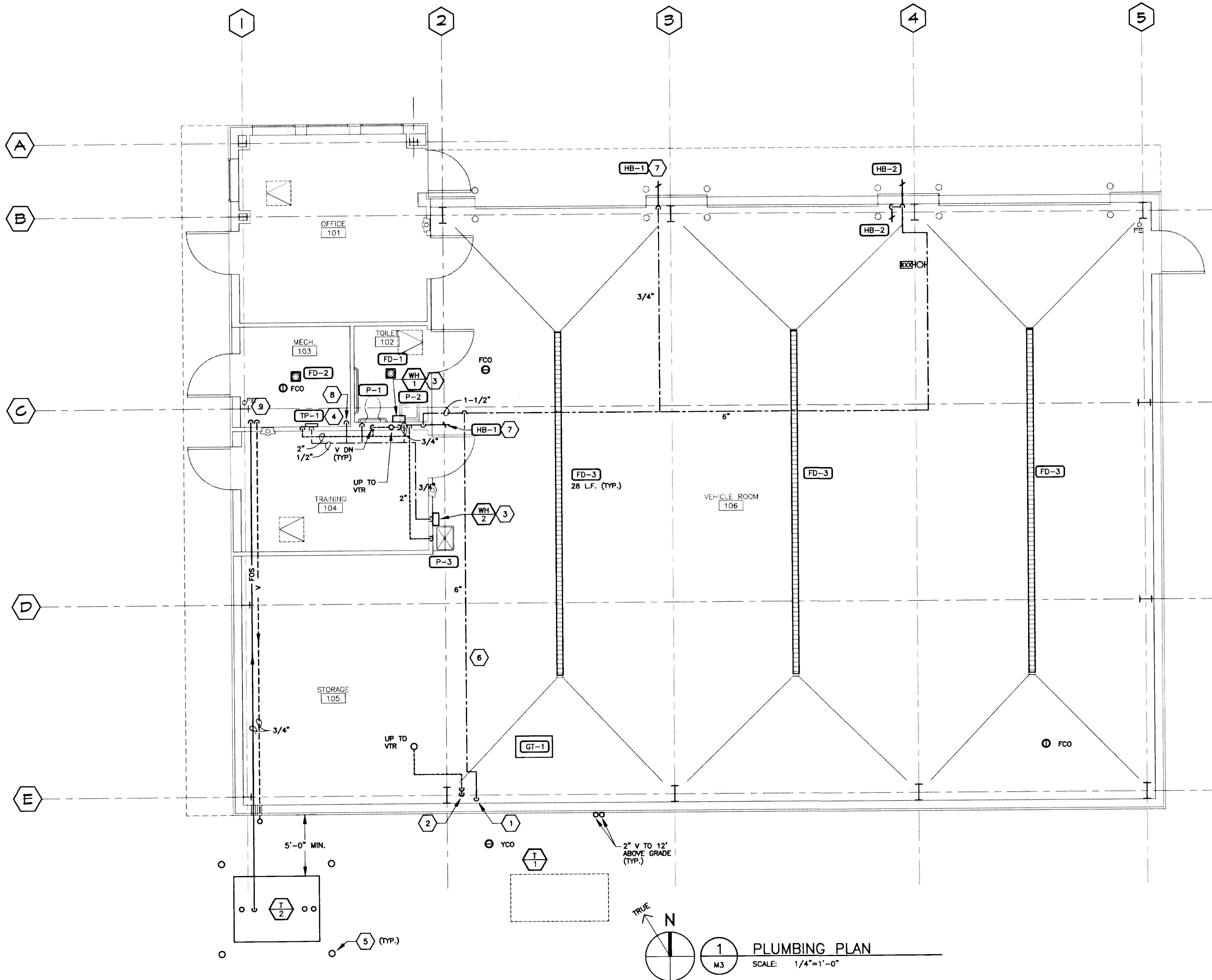
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 BUILDING**  
 WRANGELL,  
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Project Mgr.	L. MEARIS
Drawn	GIS
Checked	MDL
Date	4-15-96

Sheet Contents:  
**UNDERFLOOR  
 PLUMBING  
 PLAN**

Sheet No.:

DRAWING SCALE: 1/4"



- ### SHEET NOTES
- 1 WATER SERVICE ENTRANCE PIPING. PROVIDE GATE VALVE, CHECK VALVE, AND PRESSURE REDUCING VALVE (OUTPUT 60 PSIG). GATE VALVE AND CHECK VALVE SHALL BE LOCATED NO HIGHER THAN 5 FT. AFF. PROVIDE HORIZONTAL PIPING RUN AS NEEDED.
  - 2 2" VENT AND 3/4" VENT DOWN TO UNDERFLOOR. CONNECT VENTS TOGETHER A MINIMUM OF 6 IN. AFF.
  - 3 PROVIDE CW AND HW PIPING FROM WATER HEATER TO PLUMBING FIXTURE. LOCATE WATER HEATER ADJACENT TO OR UNDER FIXTURE.
  - 4 PIPE TP-1 TO PRIME FD-1 AND FD-2.
  - 5 PIPE BOLLARD. SEE DETAIL 7/S3.
  - 6 ROUTE PIPING ALONG SIDE STRUCTURE.
  - 7 MOUNT AT 48" AFF.
  - 8 3/4" CW DOWN TO HT-1. PROVIDE BALL VALVE FOR SHUT OFF.
  - 9 F.O. PIPING DOWN TO DT-1. ROUTE PIPING AS HIGH AS POSSIBLE INSIDE BUILDING.

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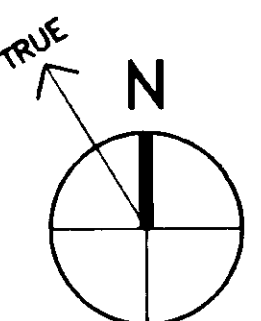
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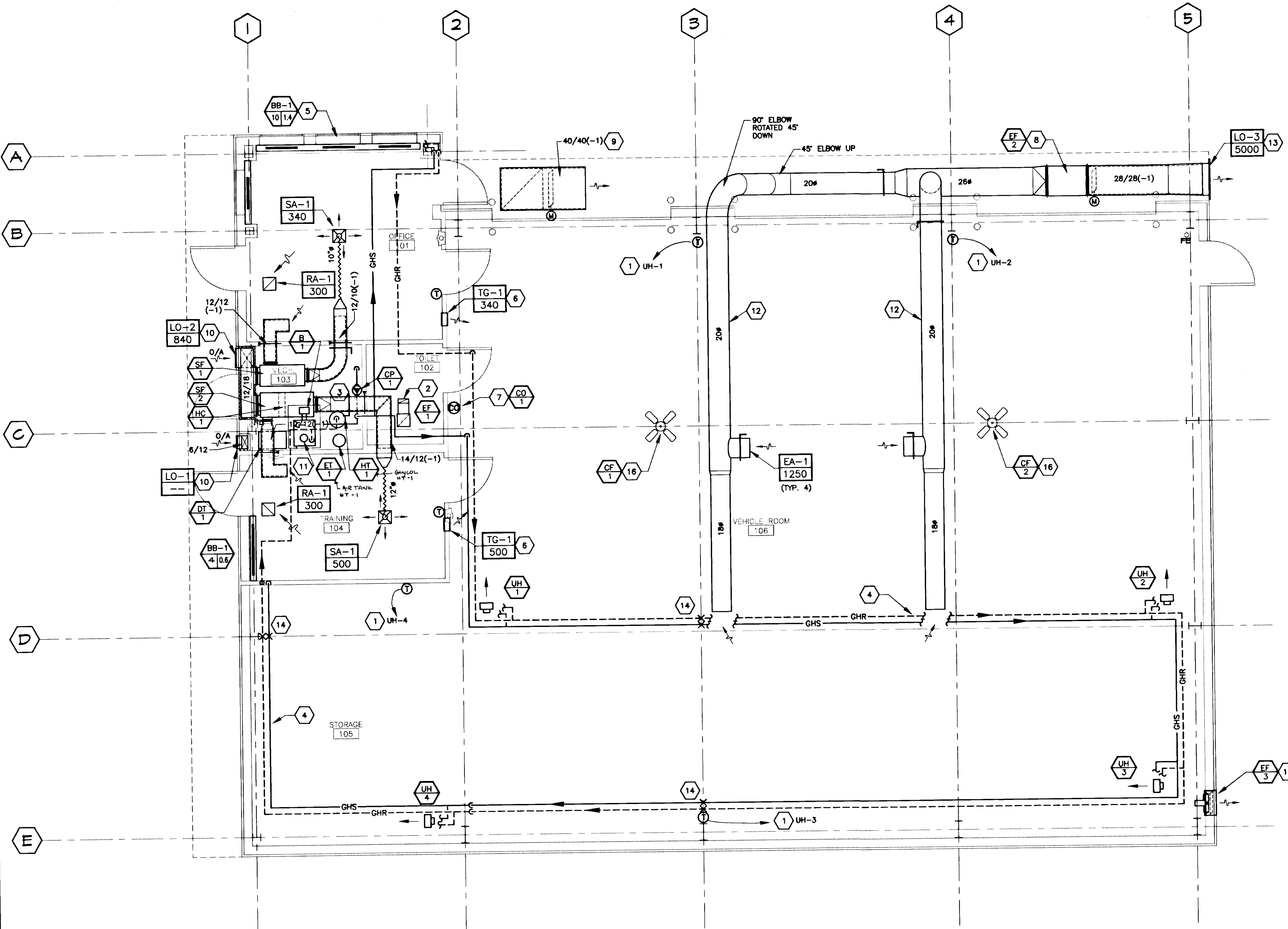
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Drawn	
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Sheet Contents:  
**PLAN  
 PLUMBING**

Sheet No.:

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





**GENERAL NOTES**

- 1 THERMOSTAT CONTROLS FOR UNIT HEATERS. MOUNT AT 48 INCHES AFF.
- 2 10/4 E/A DUCT, UP TO ROOF CAP. PROVIDE TRANSITION TO MATCH UP WITH ROOF CAP.
- 3 SEE DIAGRAM 1/M5 FOR COMPLETE HEATING PIPING CONNECTIONS AND PIPE SIZES.
- 4 ROUTE PIPING AS HIGH AS POSSIBLE AND SUPPORT FROM STRUCTURE. PROVIDE AAV AT ALL HIGH POINTS WHERE FLOW TURNS DOWN.
- 5 PROVIDE FOUR 2-1/2 FOOT ACTIVE FIN SECTIONS, LOCATED UNDER EACH WINDOW.
- 6 PROVIDE BACKDRAFT DAMPER SO AIR WILL ONLY FLOW INTO GARAGE SPACE. MOUNT ABOVE CEILING LEVEL OF ROOM 101, 104.
- 7 CARBON MONOXIDE SENSOR FOR ACTIVATION OF EF-2. EF-2 ACTIVATES AT 50 PPM. MOUNT AT APPROXIMATELY 60" A.F.F.
- 8 MOUNT EF-2 FROM STRUCTURE WITH VIBRATION ISOLATORS.
- 9 MAKE UP AIR DUCT LOCATED IN BUILDING OVERHANG. ROUTE DUCTWORK TO AVOID LIGHTS AND STRUCTURE. TERMINATE BOTH ENDS WITH 3/4" BIRDSCREEN. OUTSIDE OPENING FACES DOWN.
- 10 MOUNT TOP OF LOUVER AT APPROXIMATELY 7'-2" AFF.
- 11 7 INCH DIAMETER BOILER STACK. TERMINATE 4' ABOVE ROOF. SEE ARCHITECTURAL DETAIL 5/A4.
- 12 ROUTE E/A DUCT PARALLEL TO ROOF SLOPE AND AS HIGH AS PRACTICAL.
- 13 PROVIDE BACKDRAFT DAMPER BEHIND LOUVER LO-3.
- 14 ANCHOR PIPES TO STRUCTURE.
- 15 MOUNT AT APPROXIMATELY 10 FEET A.F.F.
- 16 MOUNT FAN FROM STRUCTURE, AS CLOSE TO CEILING AS PRACTICAL.

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**WRANGELL,  
ALASKA**

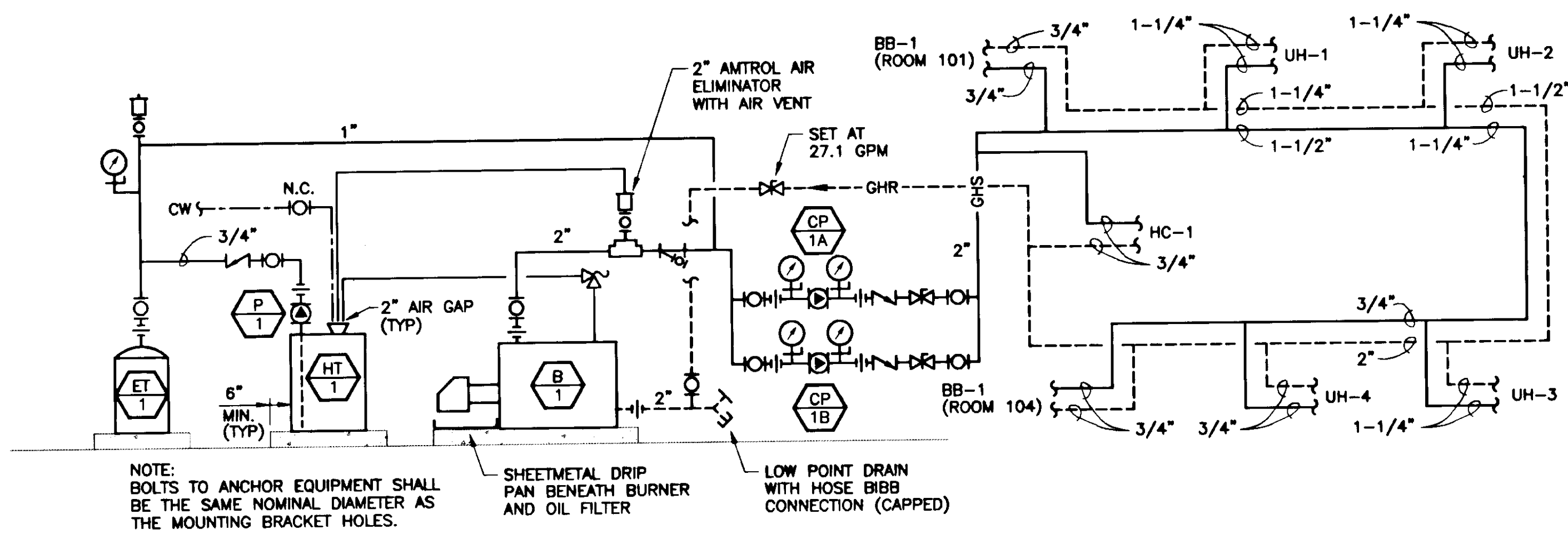
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Drawn	GIS
Drawn	
Checked	MDL
Date	4-15-96

Sheet Contents:  
**HEATING &  
VENTILATING  
PLAN**

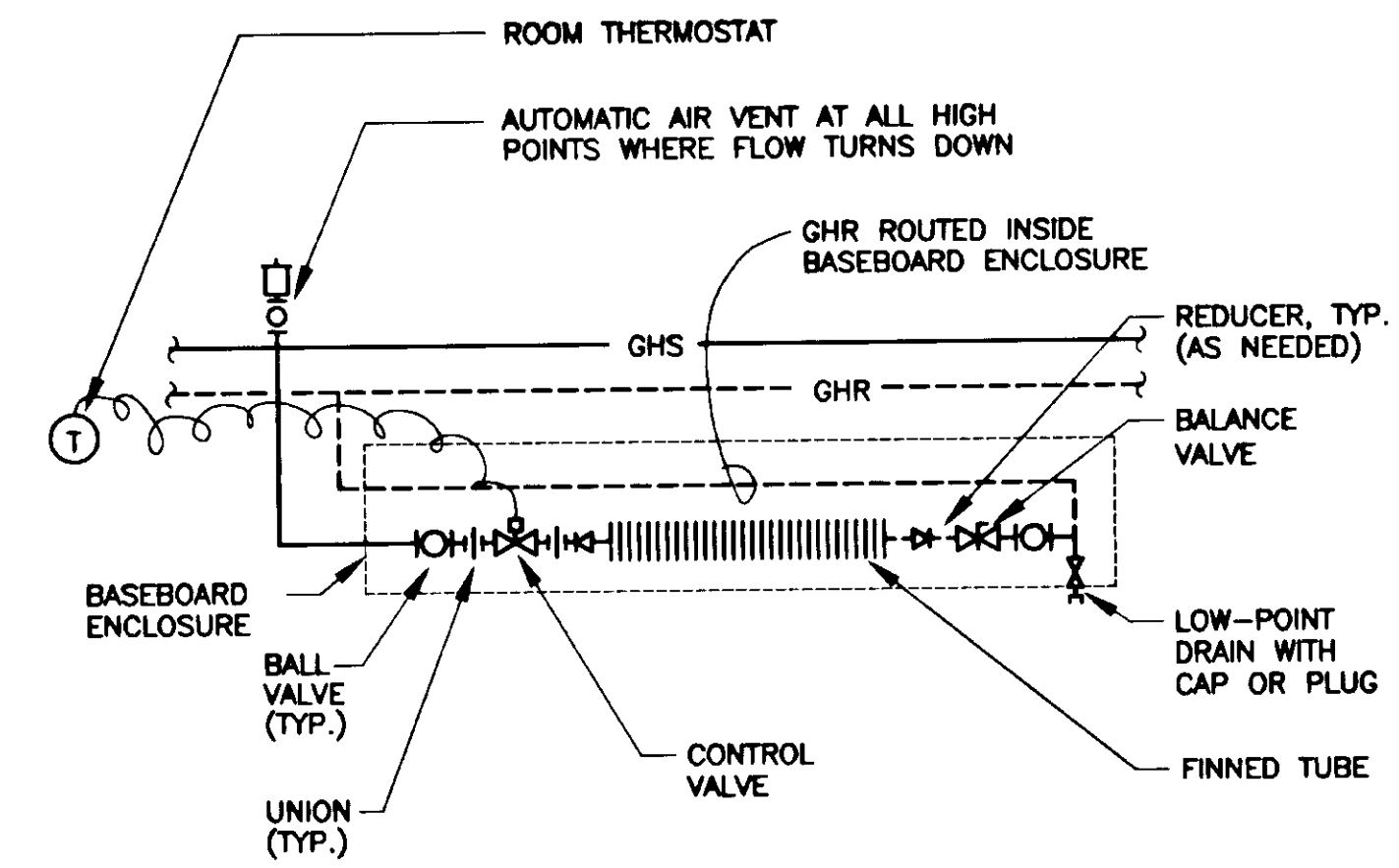
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TRUE N  
1  
M4  
**HEATING & VENTILATING PLAN**  
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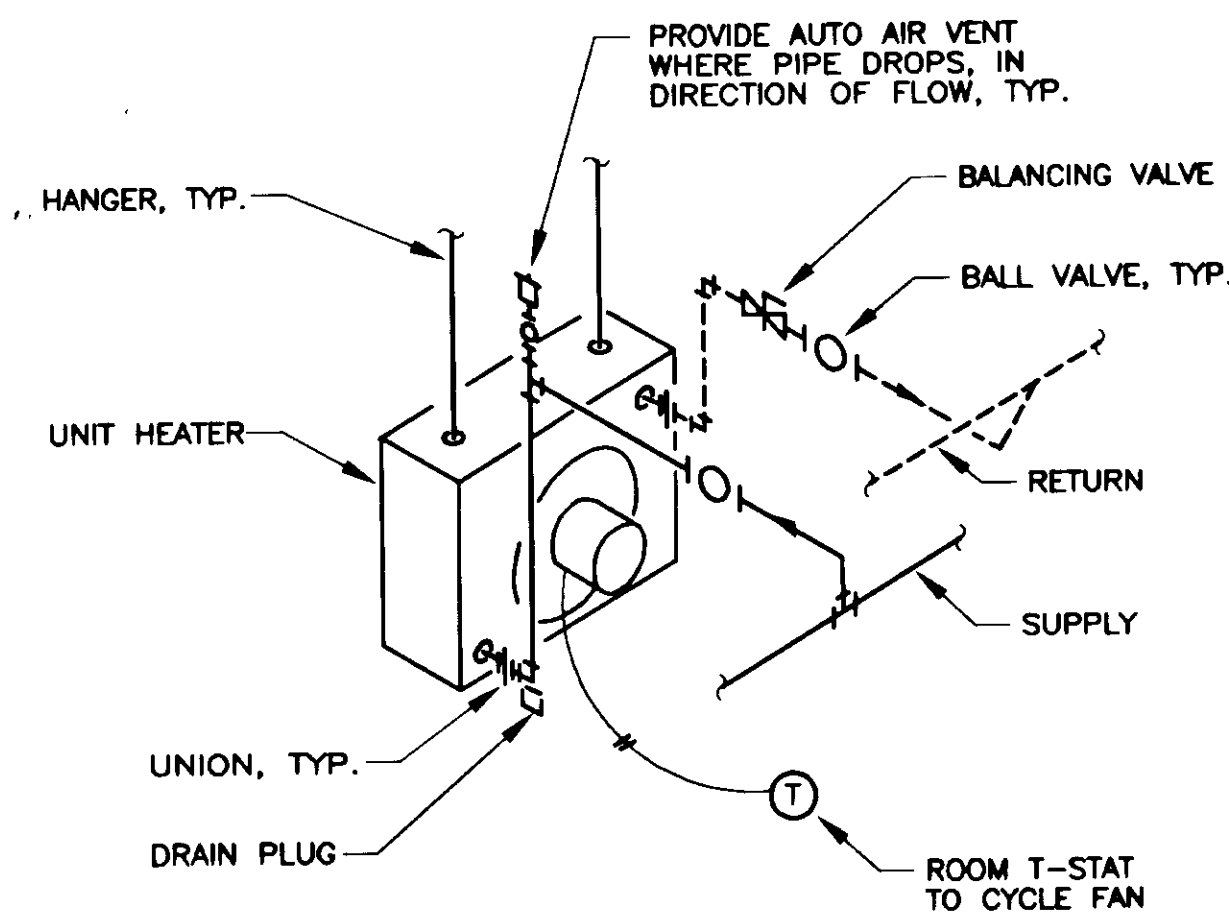
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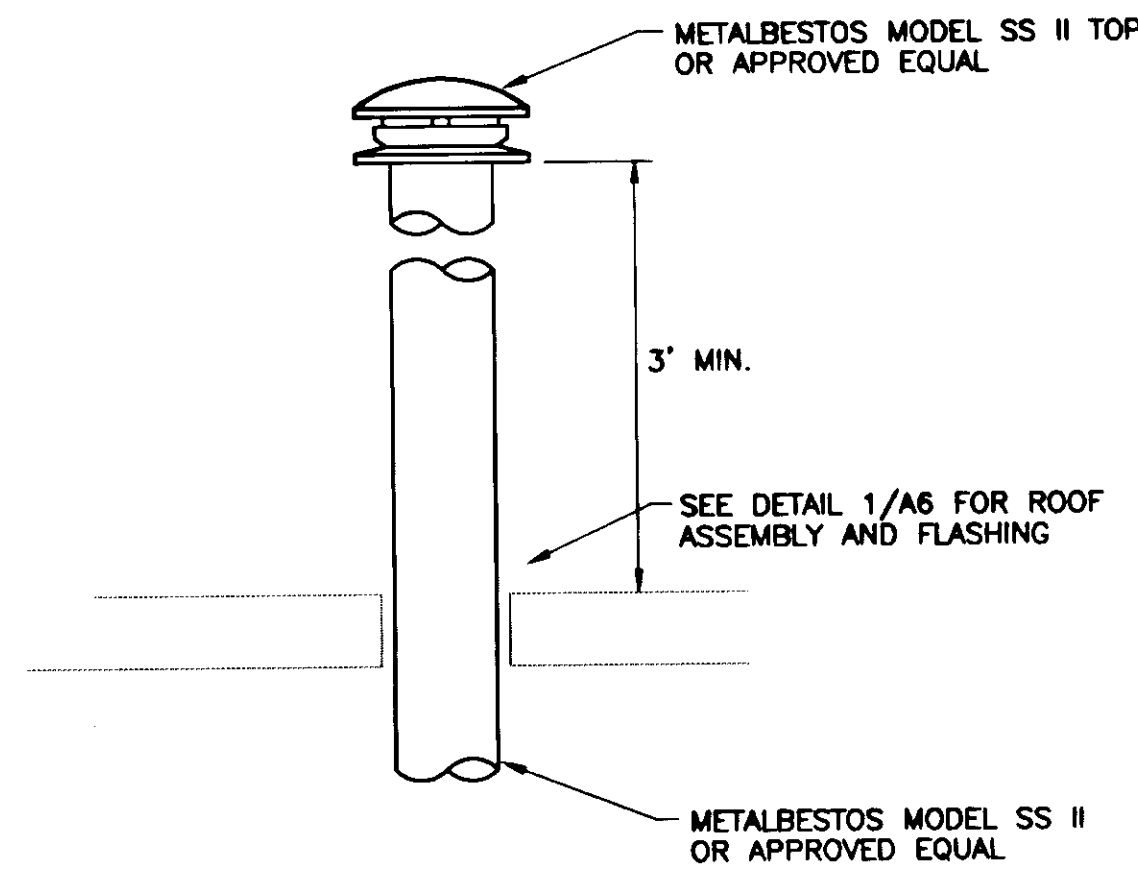
1 DIAGRAM - HEATING SYSTEM  
M5 SCALE: NONE



2 DETAIL - TYP. HYDRONIC BB-1 PIPING  
M5 SCALE: NO SCALE

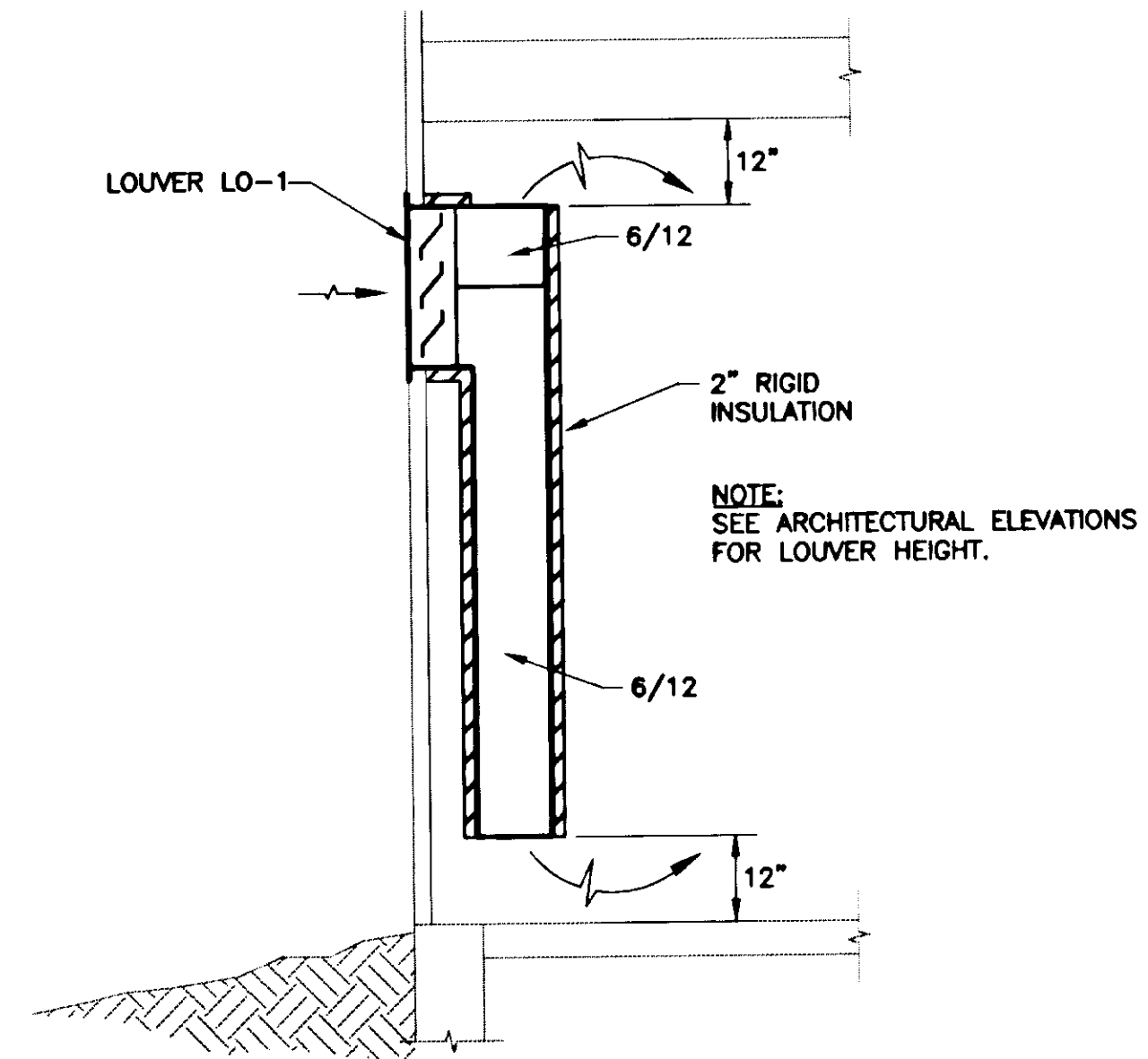


3 DETAIL - UNIT HEATER  
M5 SCALE: NO SCALE

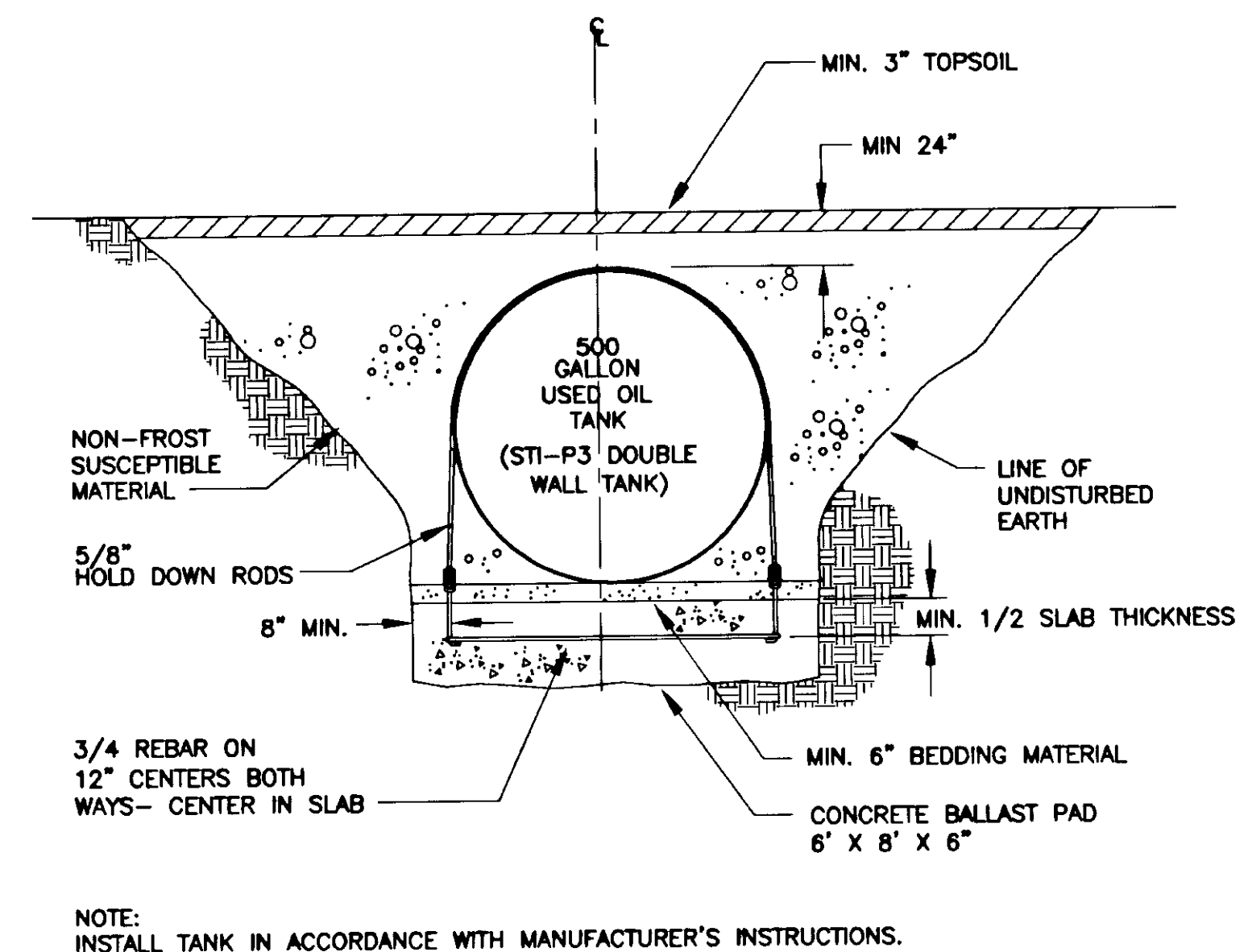
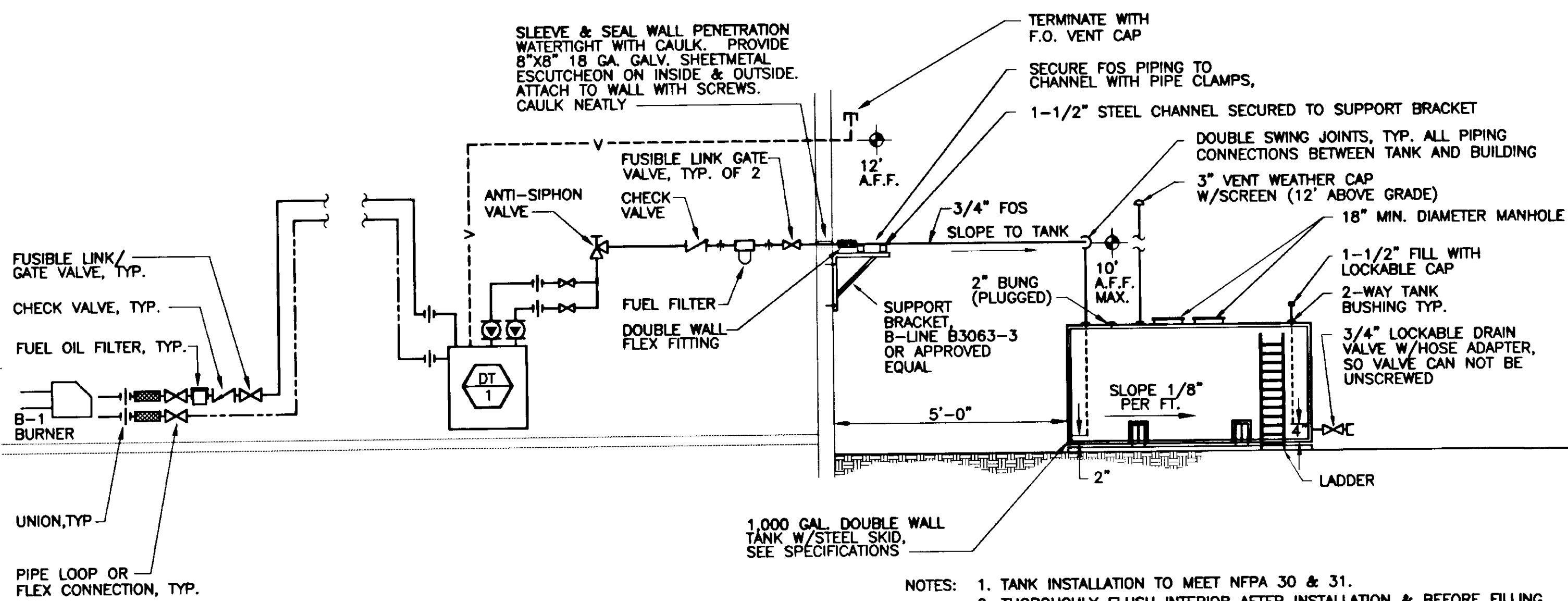


- NOTES:  
1. PROVIDE WEATHERTIGHT INSTALLATION.  
2. PROVIDE BAROMETRIC DAMPER.

4 DETAIL - BOILER STACK ROOF PENETRATION  
M5 SCALE: NO SCALE



5 DETAIL - COMBUSTION AIR INTAKE  
M5 SCALE: NO SCALE



- NOTE:  
INSTALL TANK IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

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Project:  
ARFF VEHICLE BUILDING  
WRANGELL, ALASKA

Project Mgr.	L. MEARIG
Drawn	GIS
Checked	MDL
Date	4-15-96

Sheet Contents:  
MECHANICAL DETAILS

Sheet No.:

PLUMBING FIXTURE CONNECTION SCHEDULE						
SYMBOL	FIXTURE	WASTE	VENT	C.W.	H.W.	REMARKS
P-1	WATER CLOSET	3"	2"	1"	---	FLUSH VALVE, HANDICAP, WALL MOUNTED
P-2	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	HANDICAP, WALL MOUNTED
P-3	SERVICE SINK	3"	2"	3/4"	3/4"	
FD-1	FLOOR DRAIN	2"	1-1/2"	---	---	
FD-2	FLOOR DRAIN	2"	1-1/2"	---	---	
FD-3	TRENCH DRAIN	3"	2"	---	---	POLYCAST PRE-MANUFACTURED
GT-1	OIL INTERCEPTOR	3"	2"	---	---	50 GPM OIL INTERCEPTOR
HB-1	HOSE BIBB	---	---	3/4"	---	FREEZE PROOF, VACUUM BREAKER
HB-2	HOSE BIBB	---	---	4-1/2"	---	TRUCK FILL, FREEZE PROOF, VACUUM BREAKER

TERMINAL HEATING UNIT SCHEDULE						
SYMBOL	TYPE	BTUH	GPM	FLUID TEMP. IN	FLUID TEMP. OUT	REMARKS
BB-1	BASEBOARD	1260/LF	SEE PLANS	190	170	20-INCH HIGH SLOPE TOP ENCLOSURE, WALL TO WALL, SINGLE TIER FINS, 4-1/4" BY 3-5/8" ALUMINUM FINS BONDED TO COPPER TUBING, 40 FINS/FOOT, RETURN PIPING ROUTED INSIDE ENCLOSURE, STERLING JVB-S20 C3/4-434.
UH-1,2,3	UNIT HEATER	63,500	7.1	190	170	HORIZONTAL UNIT HEATER, TWO SPEED MOTOR, LOW SPEED IS 1100 CFM, 900 RPM, 1/20 HP, 120V, 1 PHASE, WITH FAN GUARD AND DISCHARGE LOUVERS. STERLING HS-96.
UH-4	UNIT HEATER	15,800	1.7	190	170	HORIZONTAL UNIT HEATER, TWO SPEED MOTOR, LOW SPEED IS 420 CFM, 1350 RPM, 9 WATTS, 120V, 1 PHASE, WITH FAN GUARD AND DISCHARGE LOUVERS. STERLING HS-118A.

MISCELLANEOUS EQUIPMENT LIST		
SYMBOL	LOCATION	REMARKS
B-1	MECHANICAL ROOM	CAST IRON BOILER, FUEL OIL FIRED, 2.05 GPH, 249.0 MBH OUTPUT, 217.0 NET I-B-R, WEIL-McLAIN B-WG0-7, WITH WEIL-McLAIN QB180 BURNER AND 2-STAGE OIL PUMP.
WH-1	TOILET ROOM	POINT OF USE DOMESTIC WATER HEATER, 48°F TEMPERATURE RISE AT 0.5 GPM, 3500 WATTS, 120V, 1 PHASE, 29.2 AMPS, 0.5 GPM FLOW REGULATOR. EEMAX MODEL SP3512.
WH-2	VEHICLE ROOM	POINT OF USE DOMESTIC WATER HEATER, 65°F TEMPERATURE RISE AT 2.0 GPM, 19 KW, 240V, 1 PHASE, 2 X 40 AMPS, 2.0 GPM FLOW REGULATOR. EEMAX MODEL EX190P2.
ET-1	MECHANICAL ROOM	HYDRONIC SYSTEM EXPANSION TANK, DIAPHRAGM TYPE, 100 PSIG, 240 F, 11.3 GALLONS ACCEPTANCE VOLUME, 14 GALLONS TOTAL VOLUME, VERTICAL TANK, FLOOR MOUNTED. PRE-CHARGE TO 12 PSIG. AMTROL BRAND EXTROL SX-30V.
HT-1	MECHANICAL ROOM	HYDRONIC SYSTEM GLYCOL TANK, NALGENE HEAVY DUTY CROSS-LINKED HIGH DENSITY POLYETHYLENE, NOMINAL 30 GALLONS, RATED TO 160°F. HARRINGTON PLASTICS 11300-0030.
DT-1	MECHANICAL ROOM	BOILER DAY TANK, NOMINAL 25 GALLONS, HEAVY GAUGE STEEL, EPOXY COATED INTERIOR, RUST-PROOFED EXTERIOR, ALL PIPING CONNECTIONS, STRAINER, TWO 2.0 GPM PUMPS, EACH 1/3 HP, 120V, 1# OVERFLOW BASIN AND FLOAT SWITCH, PRIMING TEE, FOOT VALVE, 120 VAC CONTROLS, U.L. LISTED. PROVIDE TANK VENT THROUGH EXTERIOR WALL, SIMPLEX MODEL SST25L.
T-1	OUTDOORS	UNDERGROUND USED OIL TANK, NOMINAL 500 GALLONS, STI-P3, STEEL DOUBLE WALL CONSTRUCTION. PROVIDE ACCESS MANHOLE, DRAW-OFF PIPE, CATHODIC PROTECTION, VENTING. ANCHORAGE TANK AT5CST12.
T-2	OUTDOORS	ABOVE GROUND FUEL OIL TANK, 1000 GALLONS, U.L. LISTED SECONDARY CONTAINMENT TANK WITH EPA AND UFC REQUIRED EQUIPMENT, HORIZONTAL SKID-MOUNTED, 10 GAUGE STEEL, EXTERNAL LADDER, MANHOLE, EXTERIOR COATING. ANCHORAGE TANK MODEL AT1MULAG.
CO-1	VEHICLE ROOM	CO SENSOR AND CONTROL UNIT. ACME 01-01E3-R.

HEATING COIL SCHEDULE													
SYMBOL	LOCATION	MBH	CFM	AIR TEMP. IN	AIR TEMP. OUT	VELOCITY (FPM)	MAX. APD INCH W.G.	FLUID	GPM	FLUID TEMP. IN	FLUID TEMP. OUT	MAX. WPD FEET H2O	REMARKS
HC-1	SF-2	19.0	500	35	70	528	.25	50/50 PROP. GLYCOL	2.1	190	170	2.0	PACE 10 2 HG-10.5X13.0-A-1/12

PUMP SCHEDULE								
SYMBOL	LOCATION	USE	FLUID	TEMP.	GPM	HEAD FEET	MOTOR HP;VOLT;PH	REMARKS
CP-1A, CP-1B	MECHANICAL ROOM 103	HEATING	50/50 GLYCOL	190	27.1	21.4	3/4,120,1	IN-LINE CIRCULATOR, SINGLE STAGE, WET ROTOR, ALL STAINLESS STEEL, 3 SPEED MOTOR SET ON SPEED 2. GRUNDFOS SERIES 200 UPC50-160.
P-1	MECHANICAL ROOM 103	GLYCOL MAKEUP	50/50 GLYCOL	190	---	---	---	ROTARY HAND PUMP, COMPLETE WITH 3/4" TELESCOPING SUCTION, ADAPTER FOR TANK MOUNTING TO HT-1. BLACKMER PUMP 210AT.

FAN SCHEDULE							
SYMBOL	LOCATION	USE	CFM	S.P. INCH W.G.	RPM	MOTOR HP;VOLT;PH	REMARKS
SF-1	MECH. ROOM	S/A	340	0.75	2225	1/4,120,1	SMALL CABINET FAN, MIXING BOX, FLAT FILTER, INTERNALLY SPRING ISOLATED, TOP HORIZONTAL DISCHARGE, R/A DAMPER ON MOTOR SIDE. GAYLORD MINI-CABINET, MODEL MCF-500A.
SF-2	MECH. ROOM	S/A	500	1.00	2365	1/3,120,1	SMALL CABINET FAN, MIXING BOX, FLAT FILTER, HEATING COIL, INTERNALLY SPRING ISOLATED, TOP HORIZONTAL DISCHARGE, R/A DAMPER OPPOSITE OF MOTOR SIDE, OVERSIZE CABINET. GAYLORD MINI-CABINET, MOD. MCF-800A.
EF-1	TOILET 102	E/A	100	0.25	1550	79W,120,1	IN-LINE CEILING EXHAUST FAN, WITH METAL FACE GRILL, RIGHT ANGLE DISCHARGE, LT30 SPEED CONTROL, SL20 ROOF CAP, BACK DRAFT DAMPER, PENN ZEPHYR Z5H.
EF-2	VEHICLE ROOM 106	VEHICLE AIR	5000	0.50	1100	1-1/2,240,1	CENTRIFUGAL IN-LINE EXHAUST FAN, BACKWARD INCLINED, WITH MOTOR OPERATED DAMPER, ACTIVATED BY C.O. SENSOR. PENN DYNAMO D20.
EF-3	VEHICLE ROOM 106	E/A	800	0.25	1140	1/8,120,1	PROPELLER FAN, DIRECT DRIVE, WITH SPEED CONTROL AND COMBINATION WALL SHUTTER/LOUVER. PENN BREEZEWAY P16T.
CF-1,2	VEHICLE ROOM 106	AIR CIRC.	8610 (MAX.)	---	395	50W,120,1	CEILING PADDLE FAN, 36" DIA., TWO SPEED MOTOR, MANUAL SWITCH. LEADING EDGE HITECH HTII-36.

AIR OUTLET SCHEDULE								
SYMBOL	USE	UNIT SIZE	NECK SIZE	MAX. P.D.	MAX. N.C.	MAX. CFM	FINISH	REMARKS
SA-1	S/A	12/12	12/12	.08	20	500	WHITE	SQUARE CEILING DIFFUSER, FOUR WAY ADJUSTABLE PATTERN, STEEL, SURFACE MOUNT BORDER. TITUS MCD.
RA-1	R/A	12/12	12/12	.06	10	500	WHITE	EGGCRATE GRILL, 1/2 X 1/2 X 1 PATTERN, ALUMINUM, SURFACE MOUNT BORDER. TITUS 50F.
EA-1	E/A	18#	18#	.04	---	1250	GALV.	COVER OPEN END OF DUCT WITH 3/4" BIRD SCREEN, SECURED TO DUCTWORK.
TG-1	T/A	12/12	12/12	.06	10	500	WHITE	FIXED BLADE GRILLE, 3/4 INCH SPACING, ZERO DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIM., ALUMINUM, SURFACE MOUNT BORDER. TITUS 350ZFL.
LO-1	C/A	12W/18H	.52 SF FREE AREA	.05	---	---	SEE NOTE 1	DRAINABLE LOUVER WITH STATIONARY BLADES, GALVANIZED STEEL, 4" THICK. RUSKIN L375D.
LO-2	O/A	18W/36H	1.88 SF FREE AREA	.03	---	840	SEE NOTE 1	SAME AS LO-1, EXCEPT SIZE.

### MECHANICAL LEGEND

BALANCING VALVE  
 3-PORT CONTROL VALVE  
 CHECK VALVE  
 PIPE UP  
 PIPE DOWN  
 AUTOMATIC AIR VENT  
 THERMOMETER  
 UNION  
 CONCENTRIC REDUCER  
 ECCENTRIC REDUCER  
 PIPE FLANGE  
 PIPE ANCHOR  
 PIPE GUIDE  
 FIRE SPRINKLER  
 HIGH PRESSURE STEAM  
 LOW PRESSURE STEAM  
 CONDENSATE RETURN  
 PUMPED CONDENSATE  
 GLYCOL HEATING SUPPLY  
 GLYCOL HEATING RETURN  
 FUEL OIL SUPPLY  
 FUEL OIL RETURN  
 POINT OF CONNECTION  
 OIL FILTER  
 FLEX PIPE CONNECTION  
 FUSIBLE SAFETY VALVE  
 TURNING VANES  
 SOUNDLINING THICKNESS  
 DUCT SOUNDLINING  
 SHEETMETAL DIMENSIONS  
 SMOKE DAMPER  
 COMBINATION FIRE & SMOKE DAMPER  
 FIRE DAMPER  
 DUCT INSULATION  
 MOTOR OPERATED DAMPERS  
 VOLUME DAMPER  
 DUCT SILENCER  
 R/A OR E/A DUCT SECTION  
 S/A, C/A OR O/A DUCT SECTION  
 GLOBE VALVE  
 BALL VALVE  
 2-PORT CONTROL VALVE  
 GATE/SHUTOFF VALVE  
 SAFETY RELIEF VALVE OR PRESSURE RELIEF VALVE  
 ANGLE VALVE  
 TRIPLE DUTY VALVE  
 BUTTERFLY VALVE  
 PLUG VALVE  
 STRAINER, BLOW OFF  
 NEEDLE VALVE  
 PRESSURE GAUGE  
 STEAM PRESSURE GAUGE  
 PUMP  
 VACUUM BREAKER  
 WATER METER  
 DOMESTIC COLD WATER  
 DOMESTIC HOT WATER  
 DOMESTIC HOT WATER CIRC.  
 SANITARY VENT  
 REVERSE OSMOSIS WATER  
 GAS  
 COMPRESSED AIR  
 OXYGEN  
 Number of Fixture Units  
 WATER HAMMER ARRESTER  
 FLOOR DRAIN OR FLOOR SINK  
 FLOOR CLEANOUT  
 WALL OR HORIZONTAL CLEANOUT  
 THERMOSTAT  
 DUCT SMOKE DETECTOR  
 DIRECTION OF AIR FLOW  
 DIFFUSER DESIGNATION  
 SD-E INDICATES EXISTING CFM  
 FLEX. DUCT  
 SLOT NO./DIRECTION  
 SLOT DIFFUSER  
 DUCT SECTION NUMBER  
 DUCT SIZE (INCHES)  
 EQUIPMENT DESIGNATION (UH, CUH, CONV. OR RC)  
 EQUIPMENT DESIGNATION (BB)  
 GPM FLOW RATE  
 ACTIVE ELEMENT LENGTH  
 SHEET NOTE REFERENCE  
 YARD CLEAN OUT

ALL SYMBOLS DO NOT NECESSARILY APPEAR ON DRAWINGS

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 Date: 11-7-97

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By	
Date	11/7/97

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Project:  
**ARFF VEHICLE BUILDING**  
**WRANGELL, ALASKA**

Project Mgr.	L. MEARIG
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Date	4-15-96

Sheet Contents:  
**LEGEND & SCHEDULE**

Sheet No.:

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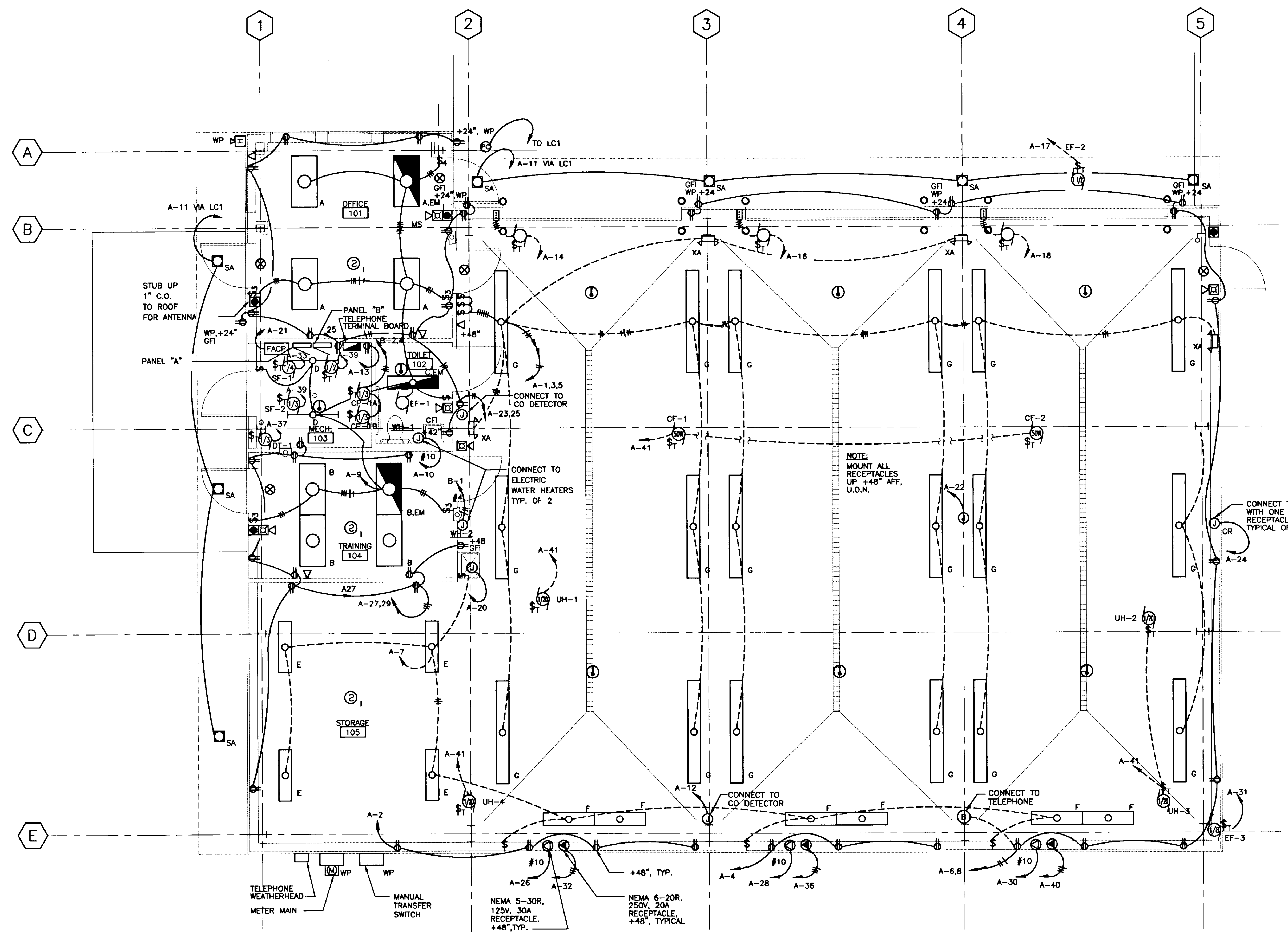
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Project:  
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VEHICLE  
BUILDING**  
  
**WRANGELL,  
ALASKA**

Project Mgr.	L. MEARIG
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Drawn	PCF
Checked	GRK
Date	4-15-96

Sheet Contents:  
**ELECTRICAL  
FLOOR PLAN**

Sheet No.:

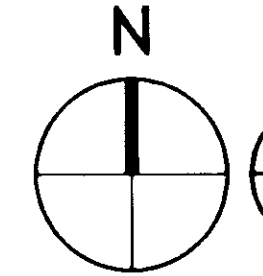


NOTE:  
MOUNT ALL RECEPTACLES UP +48" AFF, U.O.N.

CONNECT TO CORD REEL WITH ONE 125V, 20A DUPLEX RECEPTACLE ON 20 FT. CORD, TYPICAL OF 3.

NEMA 5-30R, 125V, 30A RECEPTACLE, +48", TYP.

NEMA 6-20R, 250V, 20A RECEPTACLE, +48", TYPICAL



**FLOOR PLAN - ELECTRICAL**

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

NOTE:  
LC1: 30A, 120V, 2 POLE MECHANICALLY HELD LIGHTING CONTACTOR. PROVIDE WITH 120 VOLT HOLDING COIL. PROVIDE EXTERIOR PHOTOCELL AS SHOWN ON PLAN. CONNECT PHOTOCELL TO CONTACTOR TO CONTROL EXTERIOR LIGHTING.



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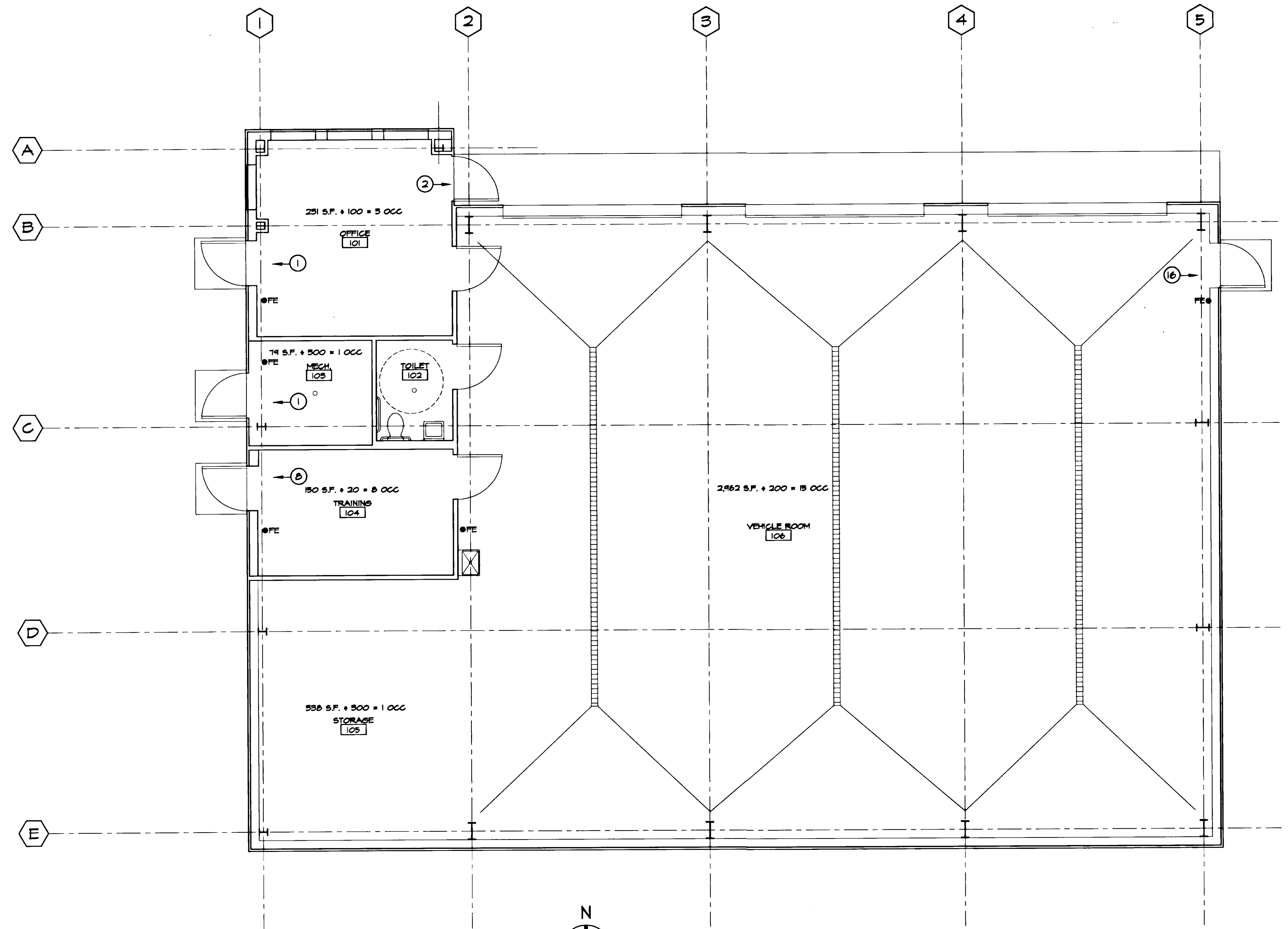
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ALASKA**

Project Mgr.	L. MEARIS
Drawn	JLL
Drawn	J.C.
Checked	P. McK
Date	4-15-96

Sheet Contents:

**FIRE CODE  
PLAN**

Sheet No.:



N  
FLOOR PLAN  
SCALE: 1/4"=1'-0"

**BUILDING FIRE CODE REVIEW**

REFERENCE CODE 1491 UNIFORM BUILDING CODE

1. CLASSIFY BUILDINGS:

- A. OCCUPANCY CLASSIFICATION
  - B-2 FIRE STATION
  - DRINKING AND DINING ESTABLISHMENTS HAVING AN OCCUPANT LOAD OF LESS THAN 50, WHOLESALE AND RETAIL STORES, OFFICE BUILDINGS, PRINTING PLANTS, POLICE AND FIRE STATIONS....."

- E. HEIGHT AND NUMBER OF STORIES PER TABLE 5-D  
TABLE 5-D, MAXIMUM HEIGHT = 55 FEET  
TABLE 5-D, MAXIMUM STORIES = 2 STORIES  
ACTUAL HEIGHT = 26 FEET  
ACTUAL NUMBER OF STORIES = 1 STORY

- 2. REVIEW CONFORMITY WITH OCCUPANCY. SEE PLAN
- 3. REVIEW CONFORMITY WITH EXITING :

- 4. FIRE EXTINGUISHERS.  
FIRE EXTINGUISHERS ARE TO BE LOCATED AT ALL  
AND EXIT DOORS PER NFPA 5TH ADDITION 14-11