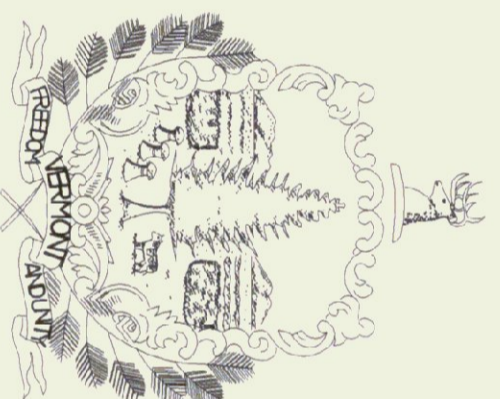


State of Vermont  
Department of Buildings & General Services  
**NEW HANGER BUILDING  
& SITE IMPROVEMENTS**  
MIDDLEBURY STATE AIRPORT  
Middlebury, Vermont

AGENCY OF ADMINISTRATION  
DEPT. OF BUILDINGS & GENERAL SERVICES  
2 GOVERNOR AIKEN AVENUE  
MONTPELIER, VERMONT 05633-5801  
THOMAS W. TORTI, COMMISSIONER



Howard Dean, M.D.  
Governor

August 2002

INDEX OF SHEETS (SECTION A)

- C-1 EXISTING CONDITIONS PLAN
- C-2 PROPOSED CONDITIONS PLAN
- C-3 WASTEWATER AND SITE DETAILS
- C-4 EROSION CONTROL DETAILS
- C-5 SPECIFICATIONS
- A-1 FLOOR PLAN AND ELEVATIONS
- A-2 ARCHITECTURAL DETAILS
- A-3 ELEVATIONS
- A-4 ROOF PLAN, DETAILS, SCHEDULES
- P-1 PLUMBING PLANS AND DETAILS
- M-1 MECHANICAL PLANS AND DETAILS
- M-2 MECHANICAL PLANS AND DETAILS
- E-1 ELECTRICAL PLANS AND DETAILS

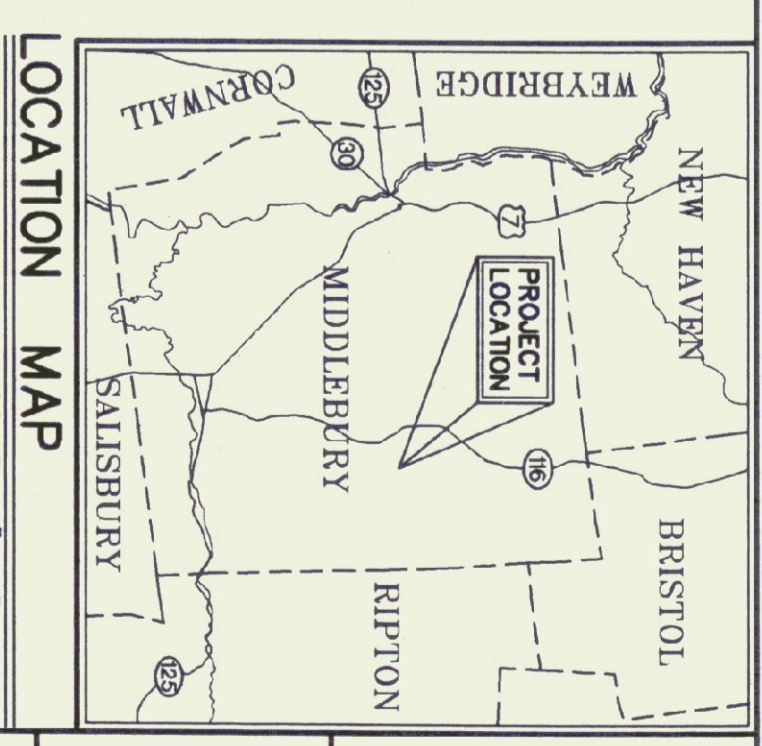
INDEX OF SHEETS (SECTION B)

- 1 TITLE SHEET
- 2 PROJECT LAYOUT
- 3 PROJECT LAYOUT
- 4 WATERLINE DETAILS
- 5 SURVEY DATA

AGENCY OF TRANSPORTATION  
NATIONAL LIFE BUILDING  
MONTPELIER, VERMONT 05602  
BRIAN SEARLES, SECRETARY



PROJECT LOCATION

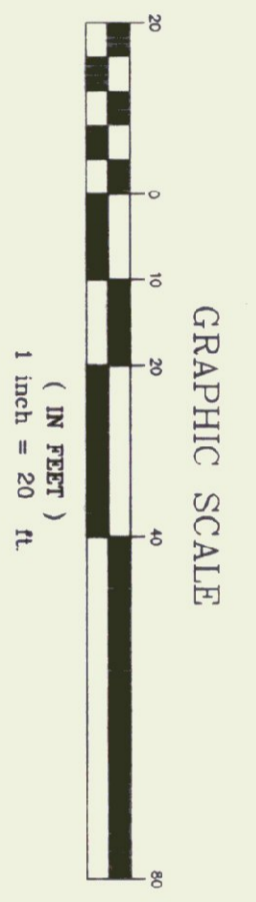
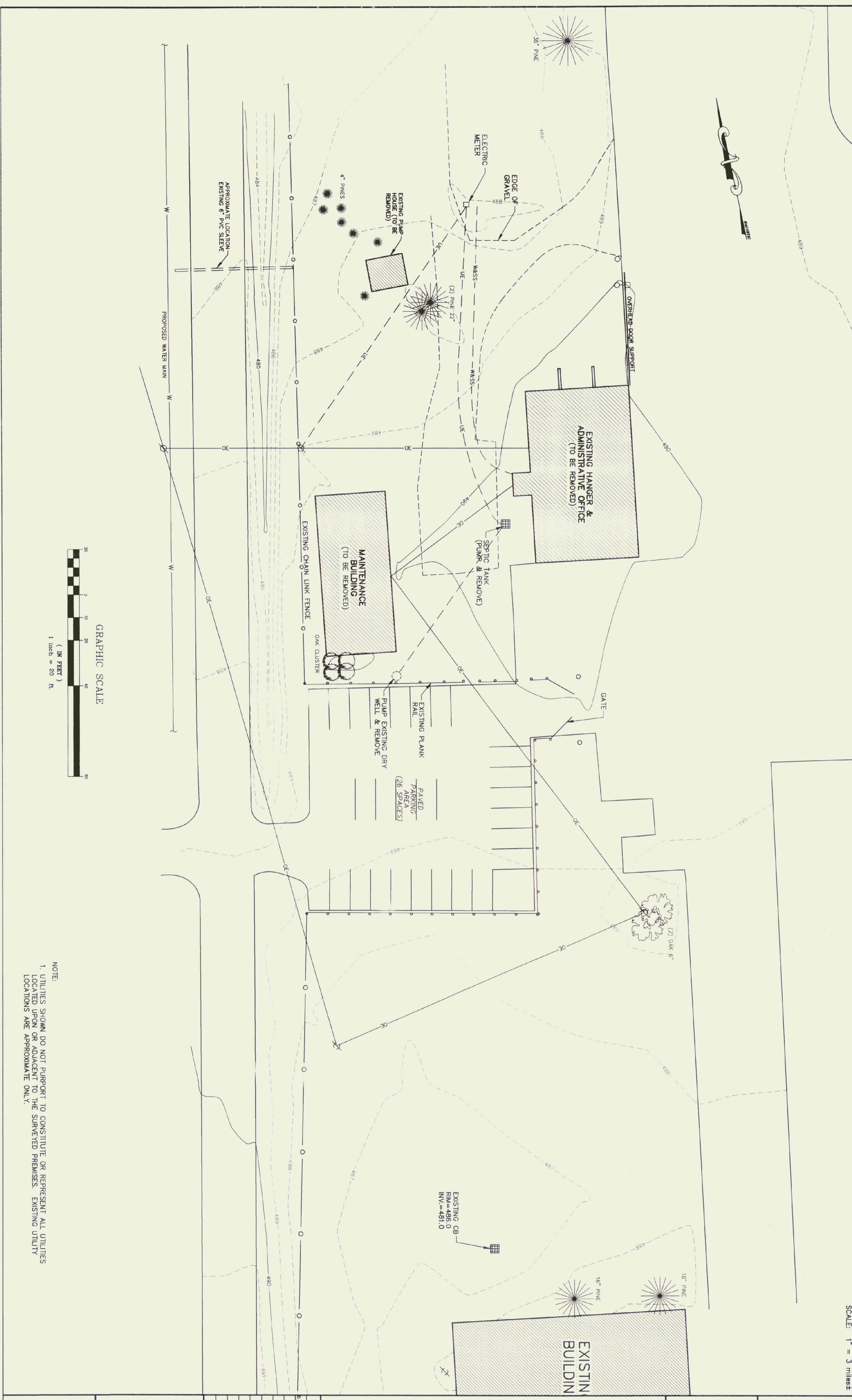


SITE ENGINEER:  
 CIVIL ENGINEERING ASSOCIATES, INC.  
 P.O. BOX 485 SHELBURNE VT 05482  
 802-885-2223 FAX 802-885-2271 e-mail: mha@ceai.com

OWNER:  
 STATE OF VERMONT  
 BUILDINGS and  
 GENERAL SERVICES  
 MONTPELIER, VERMONT

PROJECT:  
 MIDDLEBURY  
 AIRPORT  
 MIDDLEBURY, VERMONT

DESIGN <b>PJM</b>	CHECKED <b>BCE</b>	APPROVED <b>BCE</b>
----------------------	-----------------------	------------------------



NOTE:  
 1. UTILITIES SHOWN DO NOT PURPORT TO CONSTITUTE OR REPRESENT ALL UTILITIES LOCATED UPON OR ADJACENT TO THE SURVEYED PREMISES. EXISTING UTILITY LOCATIONS ARE APPROXIMATE ONLY.

DATE	CHECKED	REVISION
5/2002	BCE	GENERAL REVISIONS/CHANGED DRAWING SCALE

**EXISTING CONDITIONS PLAN**

DATE 12/21/2001	DRAWING NUMBER <b>C1</b>
--------------------	-----------------------------

SCALE  
1" = 20'

PROJ. NO.  
03309.01





**EROSION CONTROL REQUIREMENTS**

**PART 1 - GENERAL**

**1.01 SUMMARY**

- A. The work under this section includes but is not limited to providing all labor, equipment and materials for the installation of all required site related erosion control measures. The contractor shall be in strict conformity with the latest revision of the Vermont Handbook for Soil Erosion and Sediment Control on Construction Sites.

**1.02 GENERAL NOTES**

- A. The discharge of sediment laden water from the project site is prohibited. All discharged water from dewatering operations shall discharge into a temporary sedimentation basin.
- B. Contractor shall install all erosion control measures as depicted on plans and details or as recommended by the Vermont Agency of Natural Resources, or Soil Conservation Service, prior to any construction. Contractor shall also maintain all erosion control measures until project is completed.
- C. Contractor shall also limit the soil disturbance and seeding operations to between May 1st and October 15th. If soil disturbance occurs between October 15th and prior to May 1st, the contractor shall be required to provide additional erosion control measures as recommended by the Engineer for additional site specific winter erosion control measures.
- D. All stockpile material (topsoil, borrow, etc.) will have a perimeter. Seed and mulch stockpiled material as soon as possible to prevent soil erosion and sedimentation of site. Locate stockpiles on the uphill side of the disturbed area, if possible. During windy conditions, stockpiled material shall be covered or watered appropriately to prevent wind erosion.
- E. Control dust through the application of calcium chloride or water. An average application of one pound of calcium chloride per square yard of exposed area should be applied. Applications and amount of dust controller shall be based upon field and weather conditions. It shall be spread in such manner and by such devices that uniform distribution is obtained over the entire area on which it is ordered placed.

**PART 2 - PRODUCTS**

**2.01 FILTER FABRIC**

- A. When filter fabric is required, it shall conform to the requirements of Mifflott 140NS or approved equivalent.

**2.02 CALCIUM CHLORIDE**

- A. Calcium chloride shall conform to the requirements of AASHTO M 144. Either regular flake calcium chloride, Type 1 or concentrated flake, pellet or other granular calcium chloride, Type 2, may be used.

**2.03 WATER**

- A. All water used shall be clean and free of harmful amounts of oil, salt, acids, alkalis, sugar, organic matter and other substances injurious to the finished product, plant life or the establishment of vegetation.

**PART 3 - EXECUTION**

**3.01 HAY BALE CHECK DAM AND INLET PROTECTION**

- A. Bales shall be placed in a row with ends tightly butting the adjacent bales. Each bale shall be imbedded in the soil a minimum of 4 inches. Bales shall be securely anchored in place by stakes or rebar driven through the bales. The first stake in each bale shall be driven toward the previously laid bale to force the bales together.
- B. Bales shall be repaired or replaced as needed. Once vegetation is established and the bales are no longer needed for erosion control, they shall be removed.

**3.02 SILT FENCES**

- A. The silt fence shall be constructed in accordance with the construction detail. The fence shall generally be placed 10 feet from the edge of the excavation. The ends of the fence shall be placed uphill to form a horseshoe shape to trap all runoff.
- B. The silt fence shall be inspected periodically for damage repaired or replaced. Sediment deposits shall be removed from the fence as they build up and be placed in an area where there is no danger of further erosion.

**3.03 RESTORATION**

- A. As soon as construction is completed in a given area, it shall be topsoiled, seeded, fertilized and mulched as specified in the Permanent Seeding Section.

**3.04 GRASS-LINED DITCHES**

- A. All ditches that are not stone-lined shall be topsoiled, seeded, fertilized and mulched as specified in the Permanent Seeding Section until permanent vegetation is established.

**3.05 TEMPORARY DIMENSION DITCH**

- A. Some diversion ditches will be temporary in nature with silt fence and temporary seeding. These ditches shall act as protective areas and will have hypolea check dams to minimize the move of fine grained materials.

**3.06 MAINTENANCE**

- A. All erosion control measures shall be inspected weekly and repaired and/or replaced as needed.
- B. All erosion control measures shall be inspected after periods of heavy rain.
- C. The stabilized road entrance shall be top dressed with additional stone should the existing stone become clogged with sediment.
- D. Hay or straw mulch is subject to wind action. Mulch may require reworking as the weather conditions warrant.

**3.07 WINTER CONSTRUCTION**

- A. If, due to the project schedule, construction during the winter months is necessary, the Contractor shall follow the winter construction procedures outlined in the Vermont Handbook for Soil Erosion and Sediment Control on Construction Sites.
- B. Erosion control measures shall be in place prior to the ground freezing.
- C. Mulch shall be applied to all disturbed areas at a rate of 50 pounds per 1,000 square feet. The Contractor shall maintain all areas that are mulched until permanent vegetation can be established.

**TEMPORARY SEEDING**

**PART 1 - GENERAL**

**1.01 SUMMARY**

- A. Section Includes:
  1. Furnishing all labor, materials and equipment to complete all seeding required to provide temporary protection against wind or water erosion.

**1.02 GENERAL NOTES**

- A. Adequate seed bed preparation, use of quality seed, and timely planting are required to achieve a good stand of vegetation to control erosion.

**PART 2 - PRODUCTS**

**2.01 GENERAL**

- A. At a minimum, all products shall meet the requirements of the Permanent Seeding Section.

**PART 3 - EXECUTION**

- A. All essential grading and all temporary structures, such as diversions, dams, ditches, and drains needed to prevent gullying and reduce siltation, should be completed prior to seeding.

**3.02 SEED AND SEEDING**

- A. Seed and seeding rates may be selected from the table below. The selection will be based on the time of year the seeding is to occur, the soil conditions, the seed quality, and the amount of seed to be applied. The seed should be spread uniformly over the area. After seeding, the soil should be firm by rolling or packing. Where rolling or packing is not feasible, the seed should be covered lightly by raking, dragging, or dragging.
- B. Plant Selection and Seeding Rates:

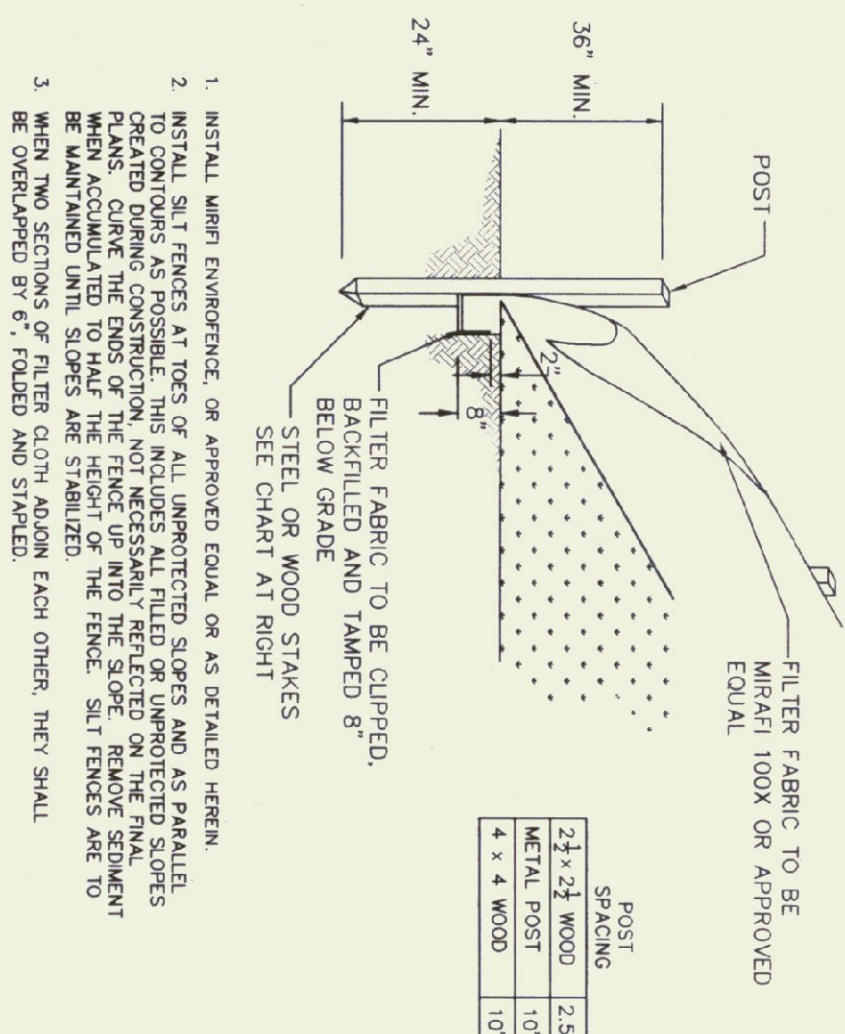
Species	Per Acre	Sq. Ft.	Remarks
Annual Ryegrass	40 lbs.	1 lb.	Grows quickly, but is of short duration. Use where appearances are important.
Perennial Ryegrass	30 lbs.	0.7 lbs.	Good cover which is longer lasting than annual ryegrass. Seed between April 1 and June 1 and/or between August 15 and September 15. Cover the seed with no more than 0.25 inch of soil.

**3.03 MULCHING**

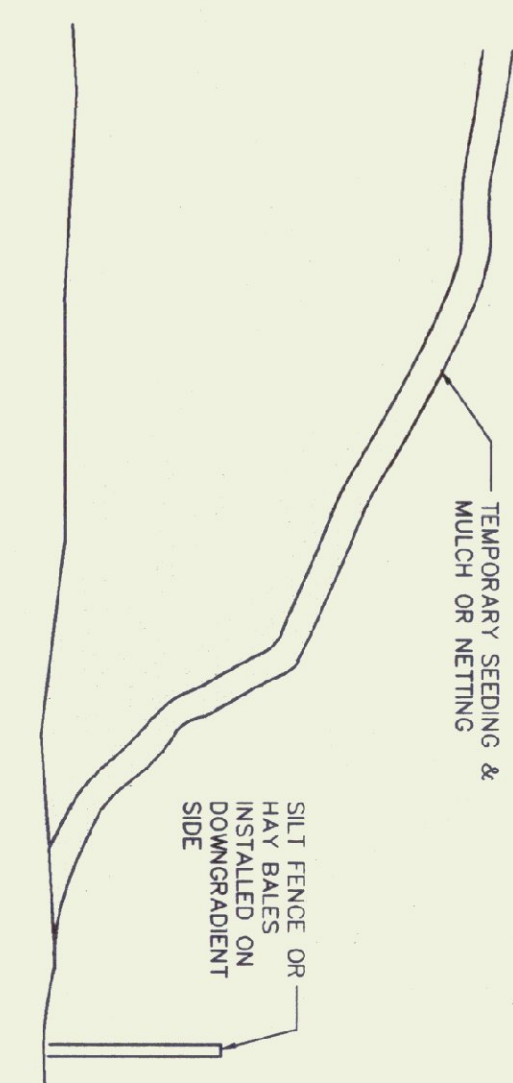
- A. Where it is impracticable to incorporate fertilizer and seed into moist soil, the seeded area should be mulched to facilitate germination.

**3.04 MAINTENANCE**

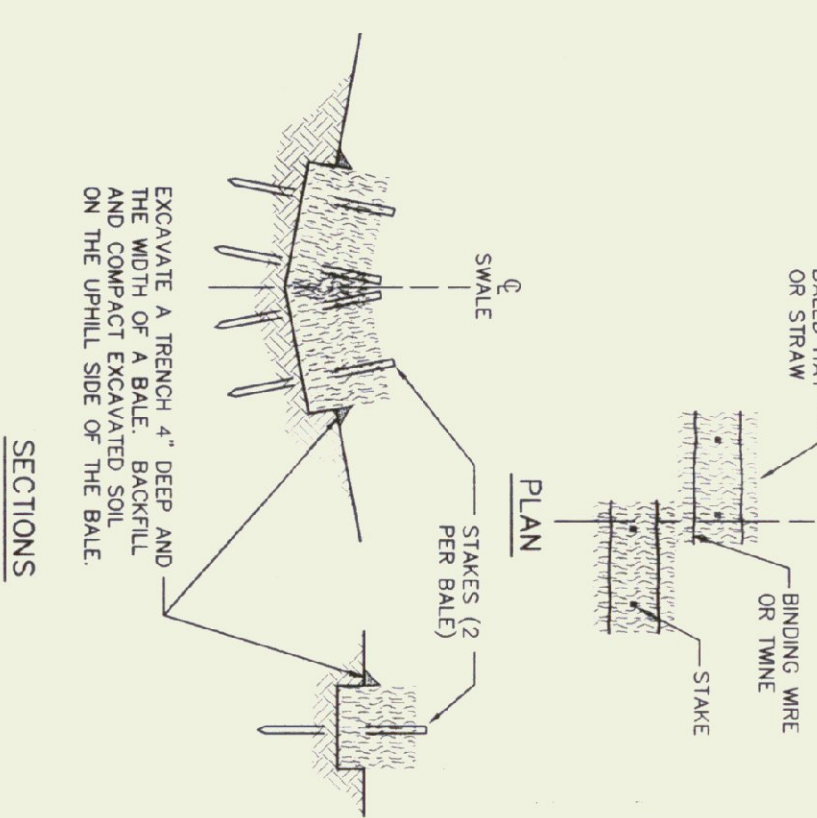
- A. If the seeding fails to grow, it may need to be re-established to provide adequate erosion control.
- B. If weeds become a problem, they may need to be controlled by mowing.



**SILT FENCE DETAIL**  
N.T.S.



**TEMPORARY STOCKPILE DETAIL**  
N.T.S.



**HAY BALE CHECK DAM**  
N.T.S.

SITE ENGINEER:



CIVIL ENGINEERING ASSOCIATES, INC.  
P.O. BOX 485 SHELBURNE, VT 05482  
602-885-2222 FAX: 602-885-2771 email: m@cae4.com

OWNER:  
STATE OF VERMONT  
BUILDINGS and  
GENERAL SERVICES  
MONTPELIER, VERMONT

PROJECT:  
MIDDLEBURY  
AIRPORT  
MIDDLEBURY, VERMONT

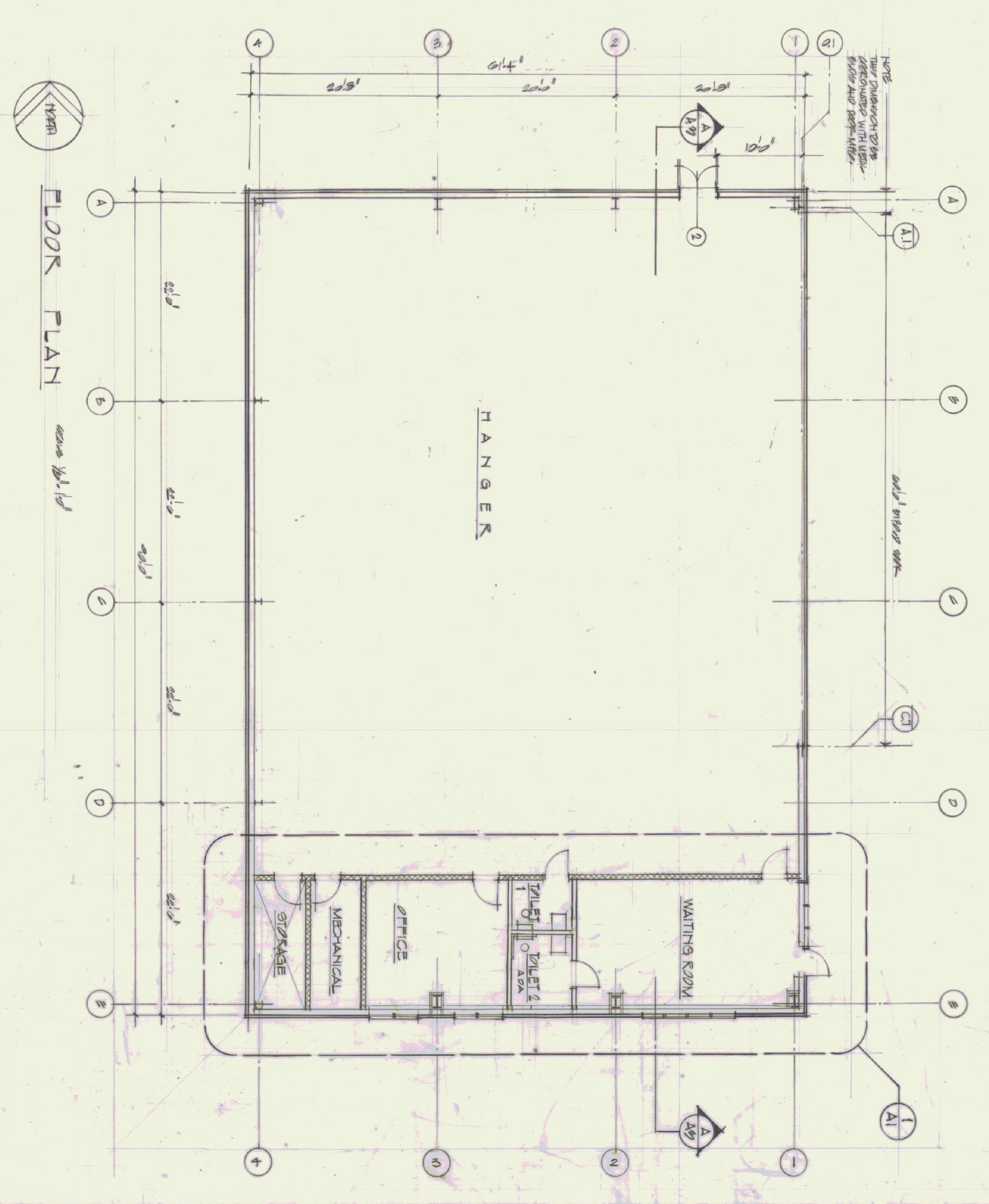
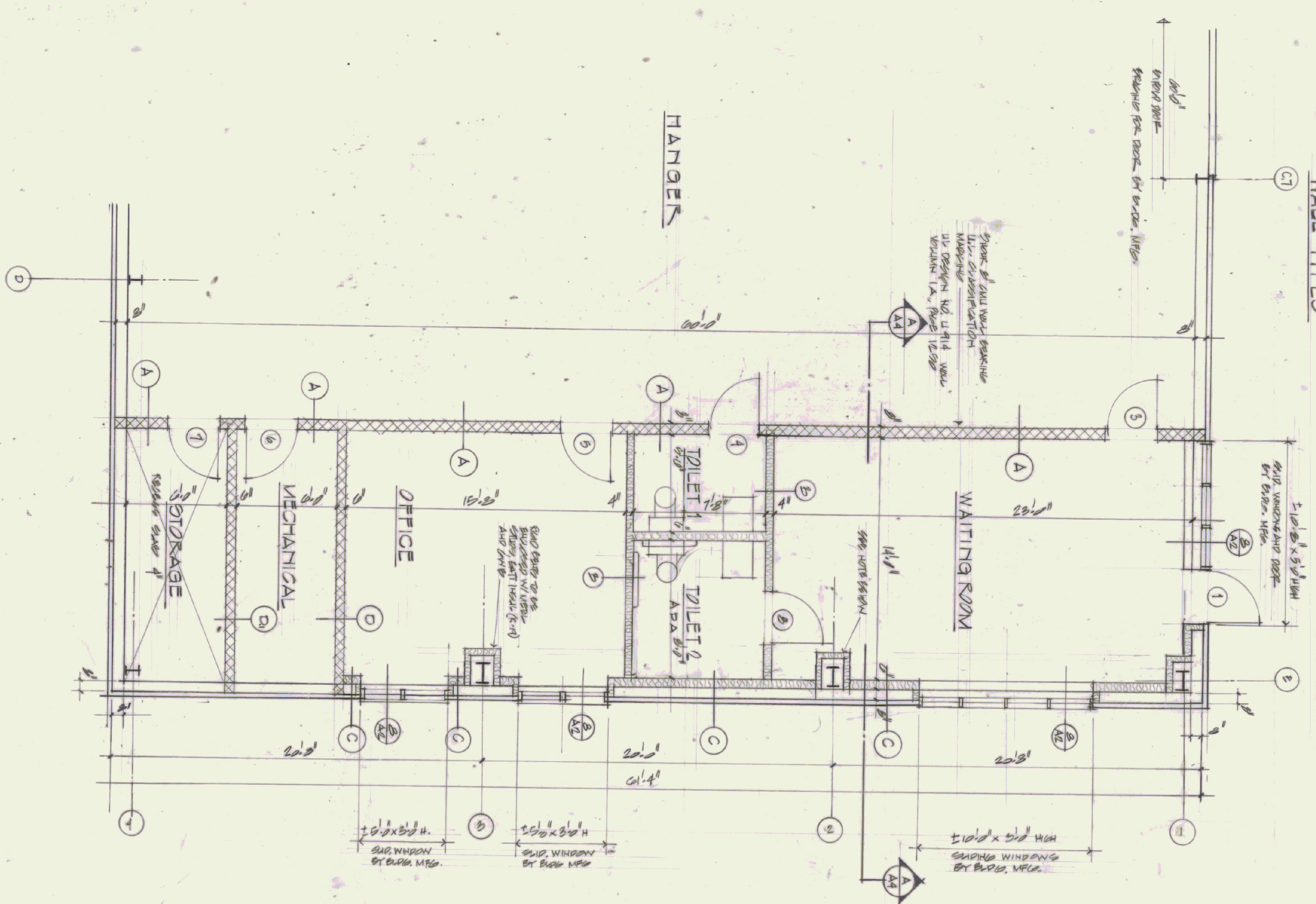
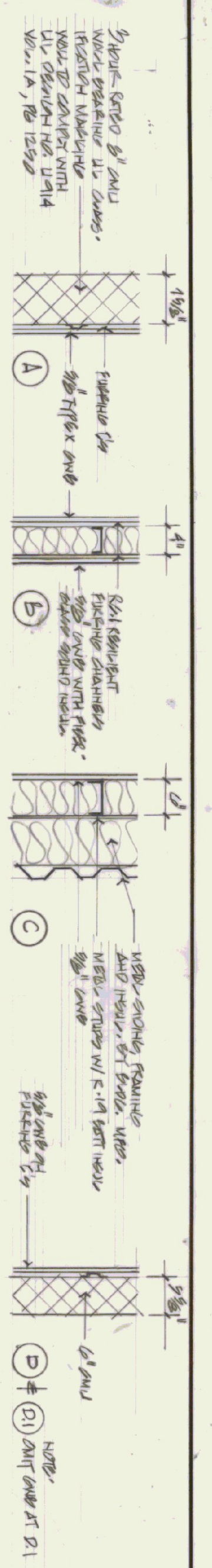
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SCALE: AS SHOWN  
PROJ. NO: 01308.01

DATE	CHECKED	REVISION

**EROSION CONTROL DETAILS**

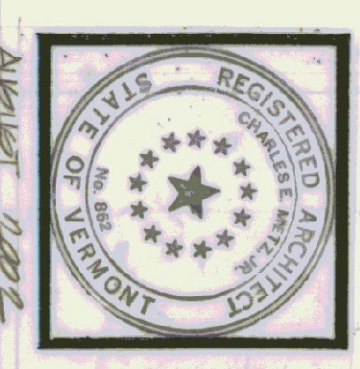
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PROJ. NO: 01308.01  
DRAWING NUMBER: C4





**SCHEDULE OF INTERIOR FINISHES**

ROOM	FLOOR	BASE	NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL	CEILING	FINISH	REMARKS
HANGER	CONCRETE	-	WATERPROOF	WATERPROOF	WATERPROOF	WATERPROOF	CONCRETE	-	-
WAITING RM.	V.S.T.	VHVL	GNB	GNB	GNB	GNB	PAINT	PAINT	STAIR WOOD TIS
TOILET 1	V.S.T.	VHVL	GNB	GNB	GNB	GNB	PAINT	PAINT	STAIR WOOD TIS
TOILET 2 ADA	V.S.T.	VHVL	GNB	GNB	GNB	GNB	PAINT	PAINT	STAIR WOOD TIS
OFFICE	V.S.T.	VHVL	GNB	GNB	GNB	GNB	PAINT	PAINT	STAIR WOOD TIS
MECHANICAL	CONCRETE	-	GNB	GNB	GNB	GNB	PAINT	PAINT	STAIR WOOD TIS
STORAGE	CONCRETE	-	GNB	GNB	GNB	GNB	PAINT	PAINT	STAIR WOOD TIS

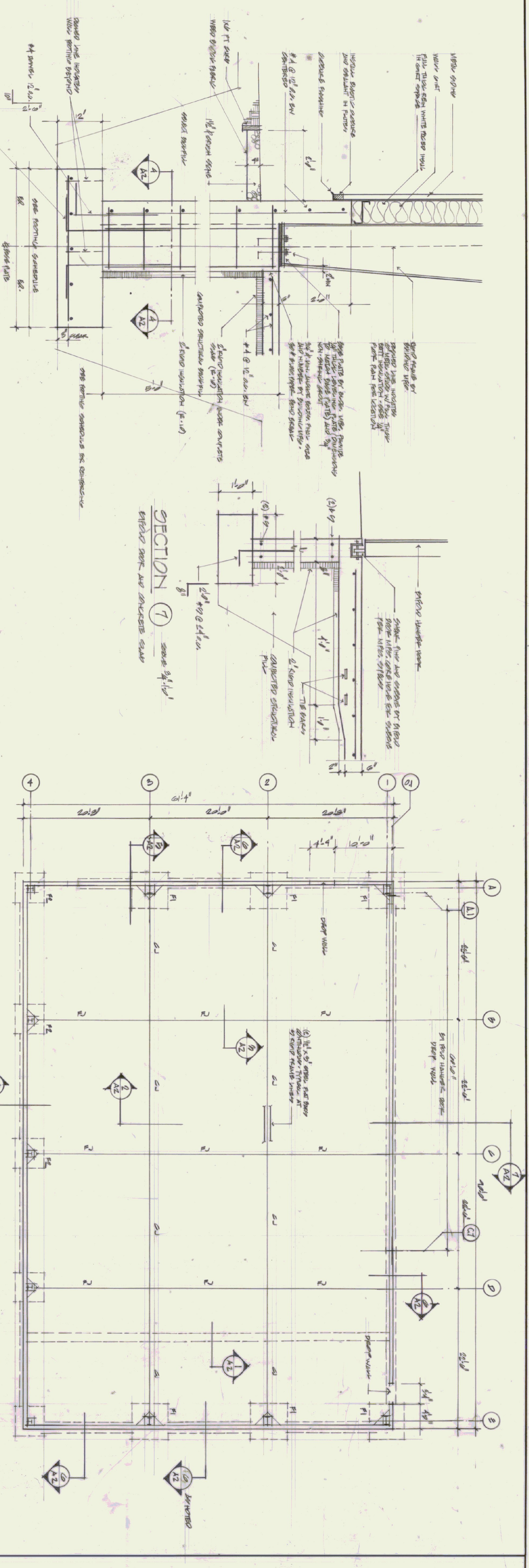


**PROJECT:**  
NEW AIRPORT HANGER  
MIDDLEBURY STATE AIRPORT  
TITLE: MIDDLEBURY VERMONT  
FLOOR PLANS - DETAILS  
FINISH SCHEDULE

**CHARLES E. METZ**  
ARCHITECT  
THE GRIST MILL  
BRADFORD VT 05033

DRAWING:  
**AI**

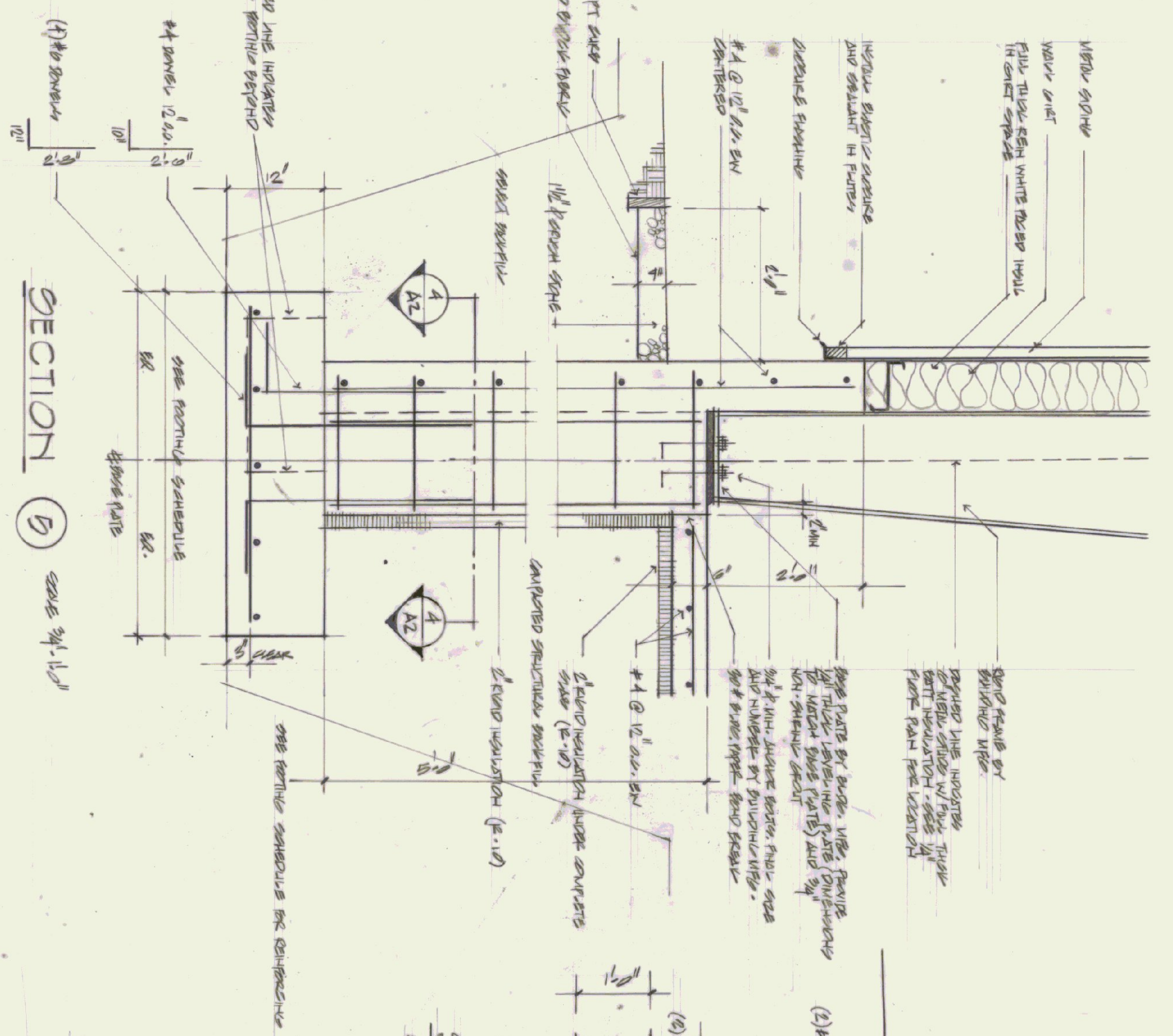
**PARTIAL FLOOR PLAN**  
Scale 1/4" = 1'-0"



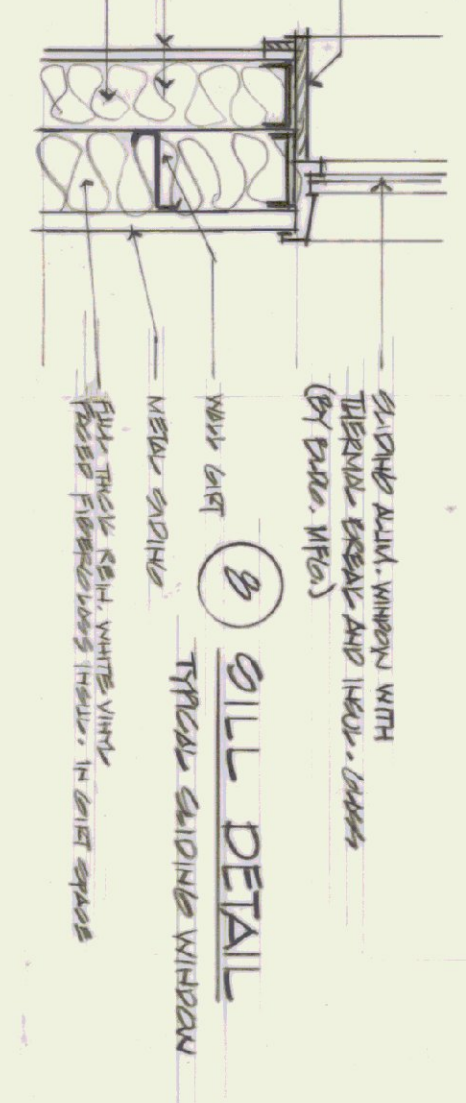
MARK	FOOTING	SCHEDULE	REMARKS
F1	24" x 24" x 12' 0"	#4 @ 12" ON CENTER	
F2	24" x 24" x 12' 0"	#4 @ 12" ON CENTER	

**NOTE**  
 THE FOUNDATION DESIGN SHOWN ASSUMES TYPICAL FOUNDATION LOADS FROM A STEEL FRAME WOOD JOIST SYSTEM OF THIS TYPE AND SIZE. LOADS FOR AND FROM OTHER MATERIALS TO BE REVIEWED WITH THE CONTRACTOR. SUBSEQUENT REVISIONS TO THIS PLAN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND REGULATORY REVIEW.

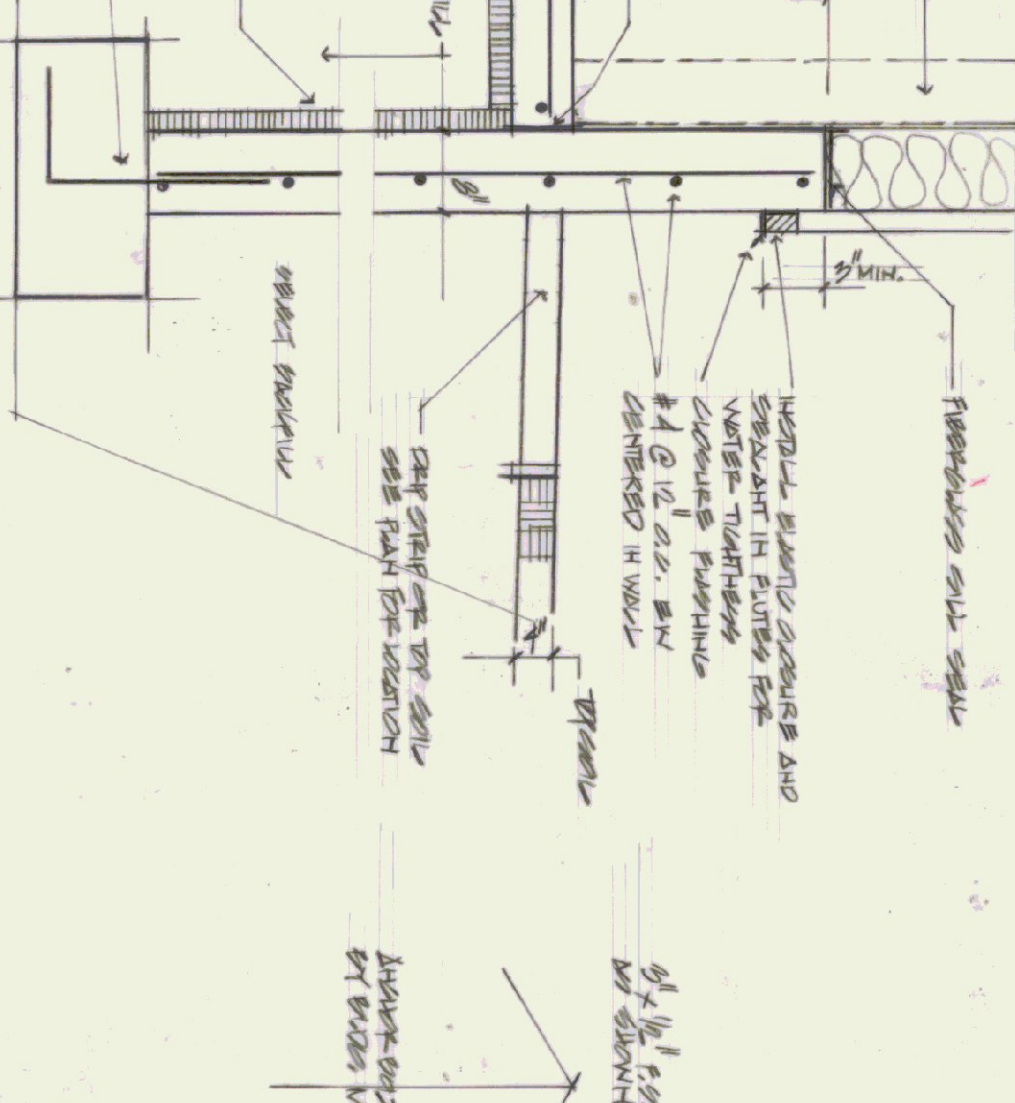
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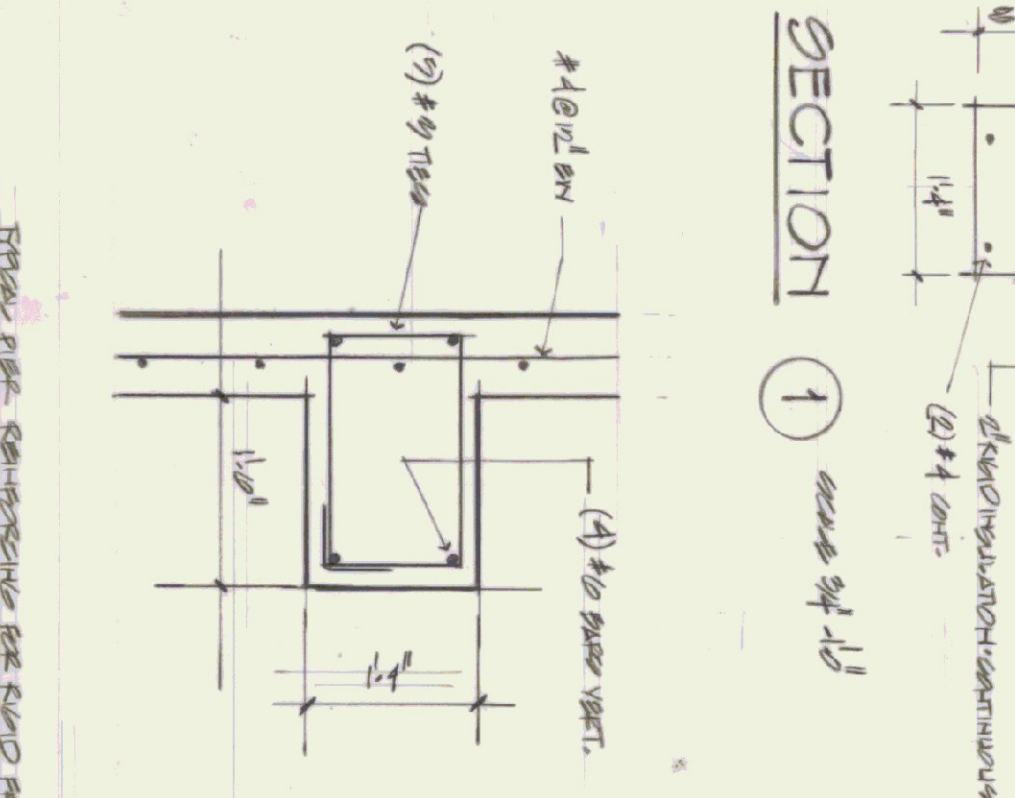
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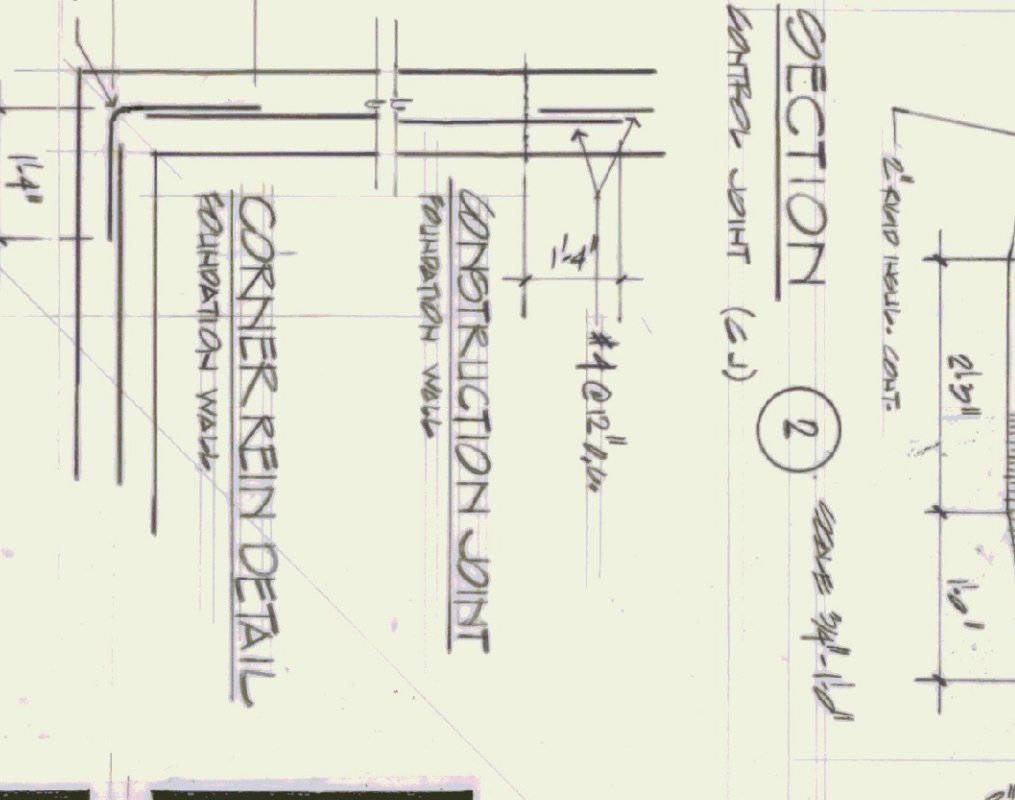
**SILL DETAIL**



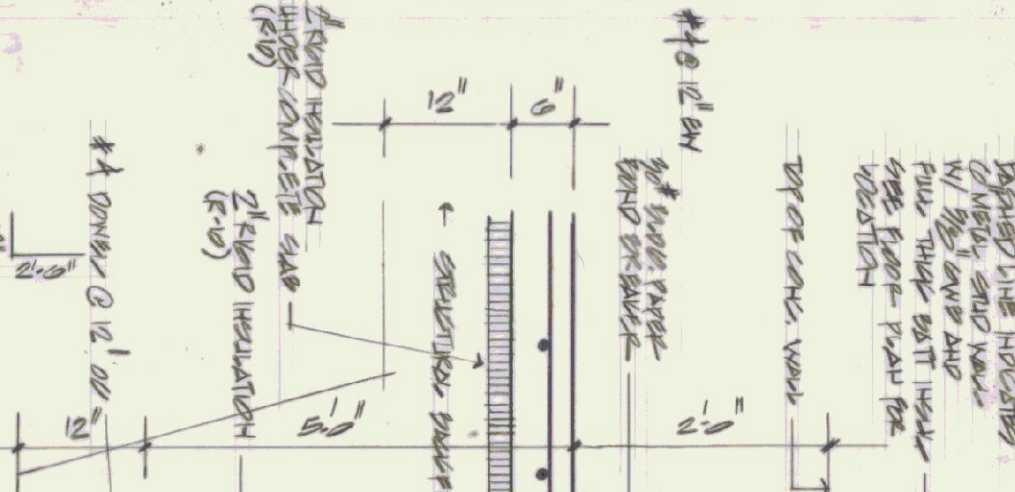
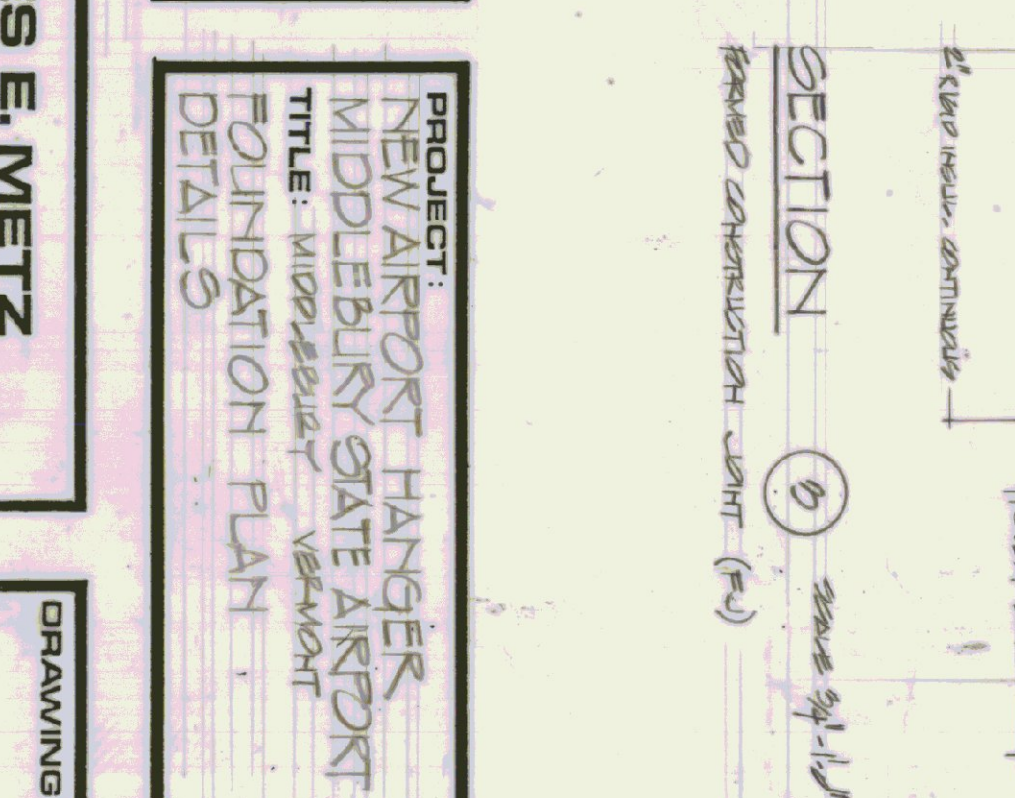
**SECTION 1** scale 3/4" = 1'-0"



**SECTION 2** scale 3/4" = 1'-0"

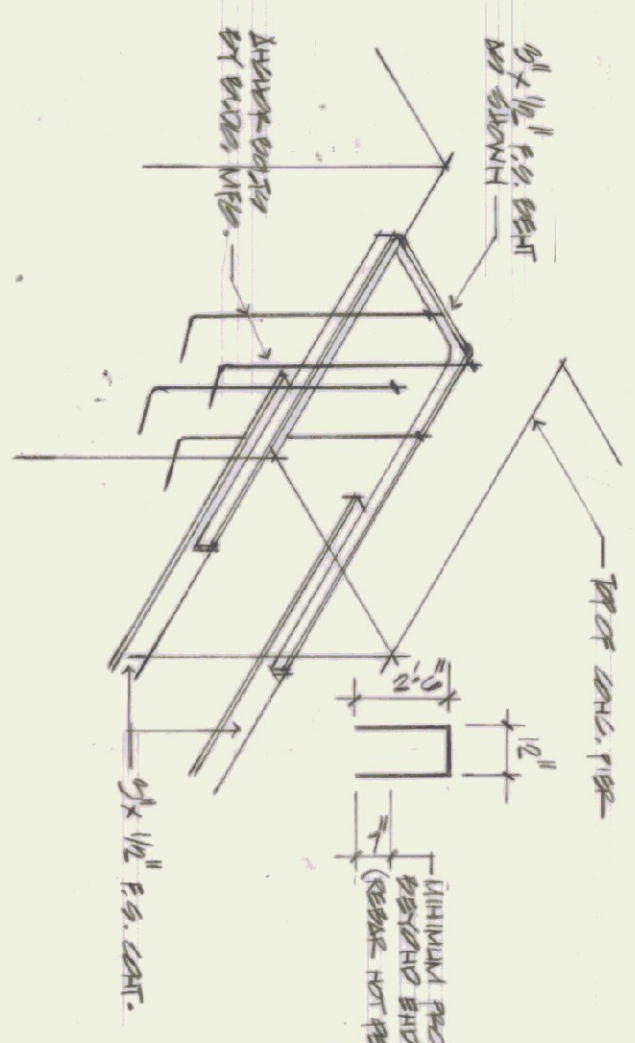


**SECTION 5** scale 3/4" = 1'-0"



**SECTION 3**

**ISOMETRIC: HAIRPIN TIE** scale 3/4" = 1'-0"



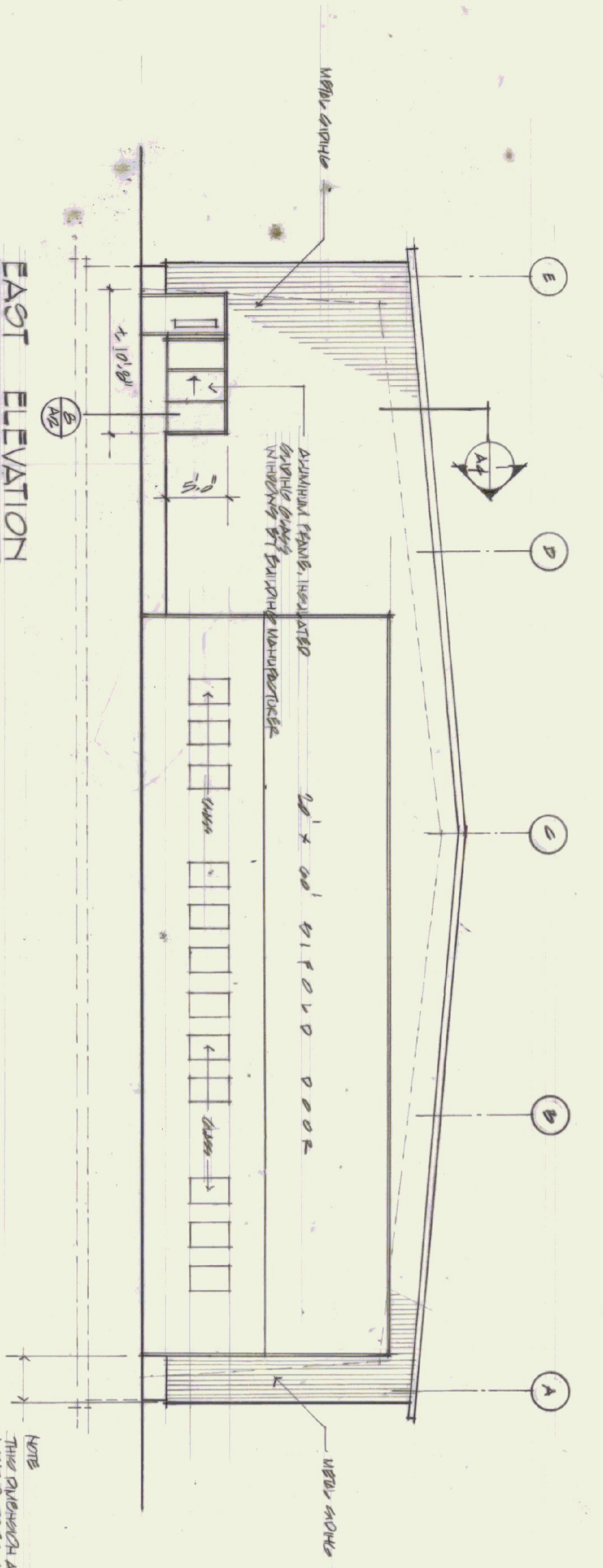
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REGISTERED ARCHITECT  
 CHARLES E. METZ  
 ARCHITECT  
 THE GRIST MILL  
 BRADFORD VT 05033

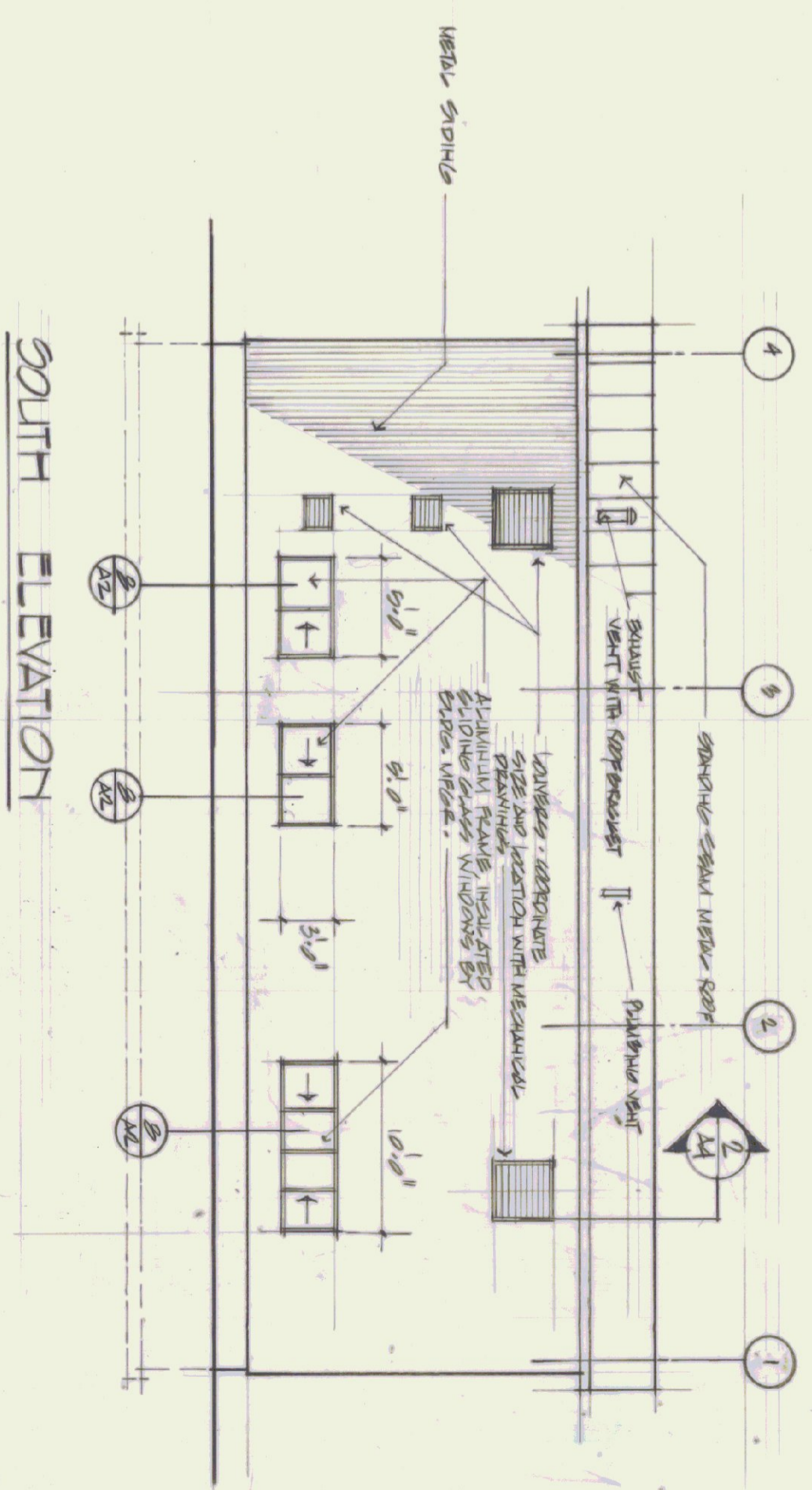
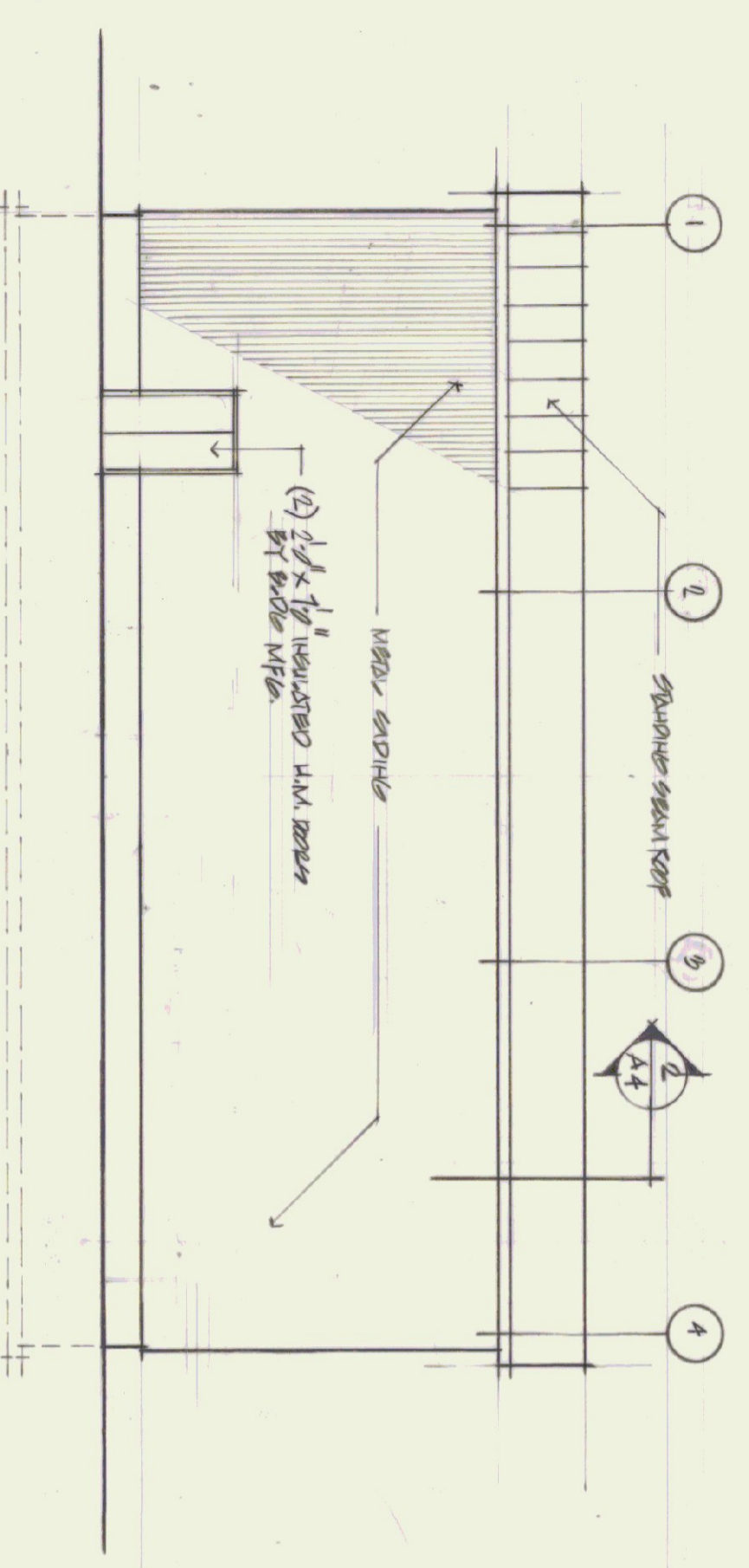
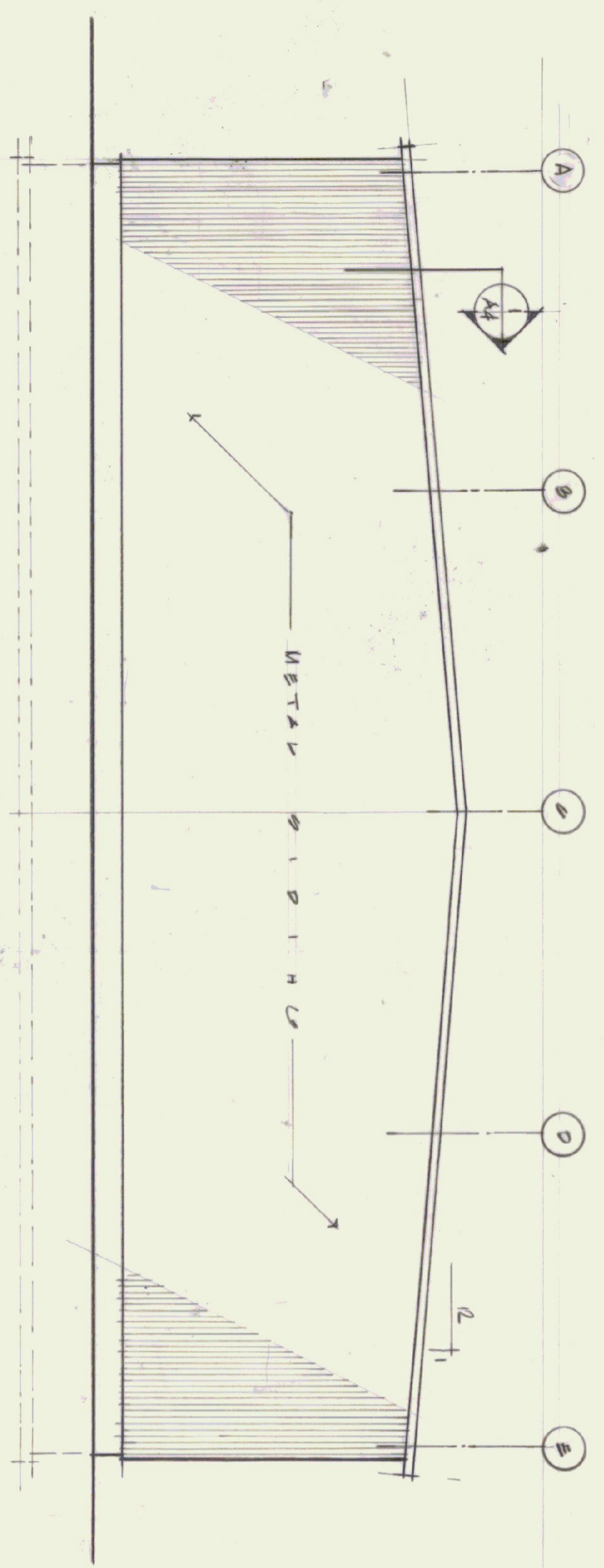
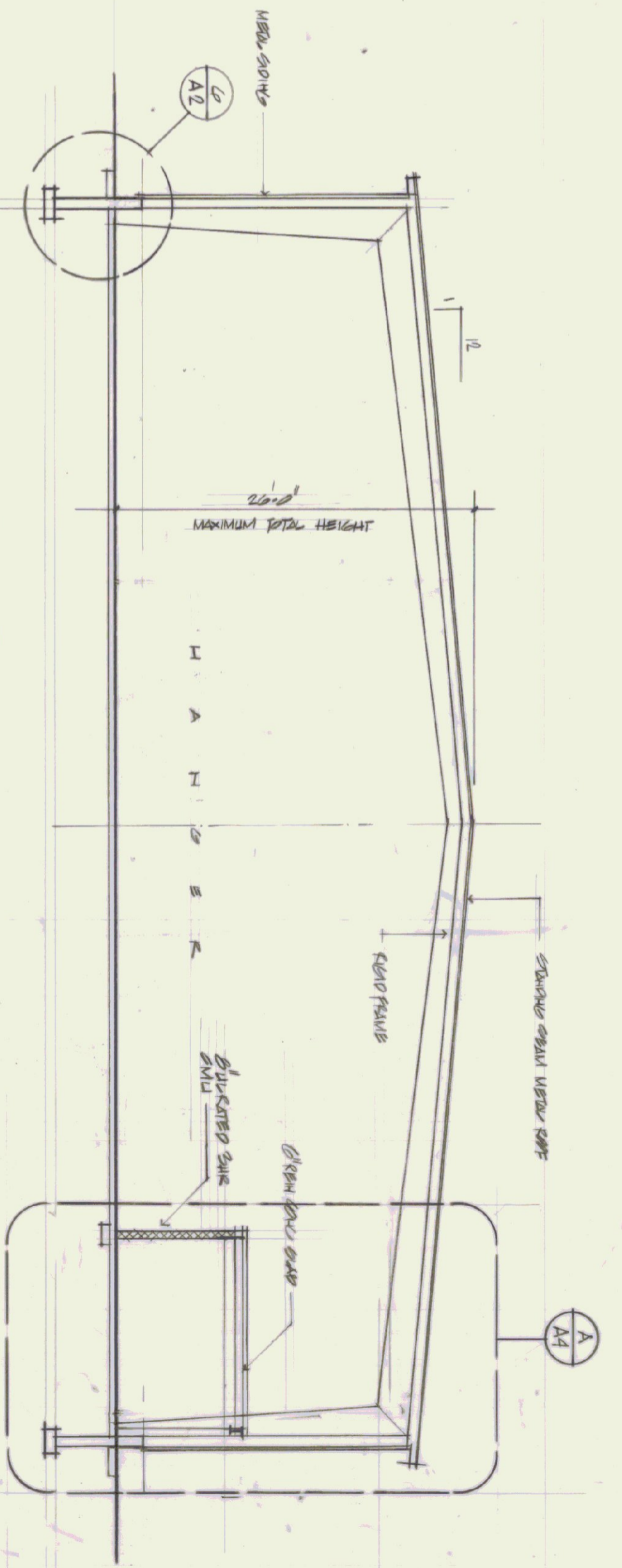
PROJECT:  
 NEW AIRPORT HANGER  
 MIDDLEBURY STATE AIRPORT  
 TITLE: MIDDLEBURY VERMONT  
 FOUNDATION PLAN  
 DETAILS

DATE: 10/02

DRAWING:  
 A2



NOTE  
 THE QUALITY AND STRENGTH OF THE ROOF SHALL BE SUBJECT TO BE CORRELATED WITH THE  
 SPEC. AND 61-650 ROAD INFO.



NORTH ELEVATION

WEST ELEVATION

EAST ELEVATION

SECTION A

SOUTH ELEVATION



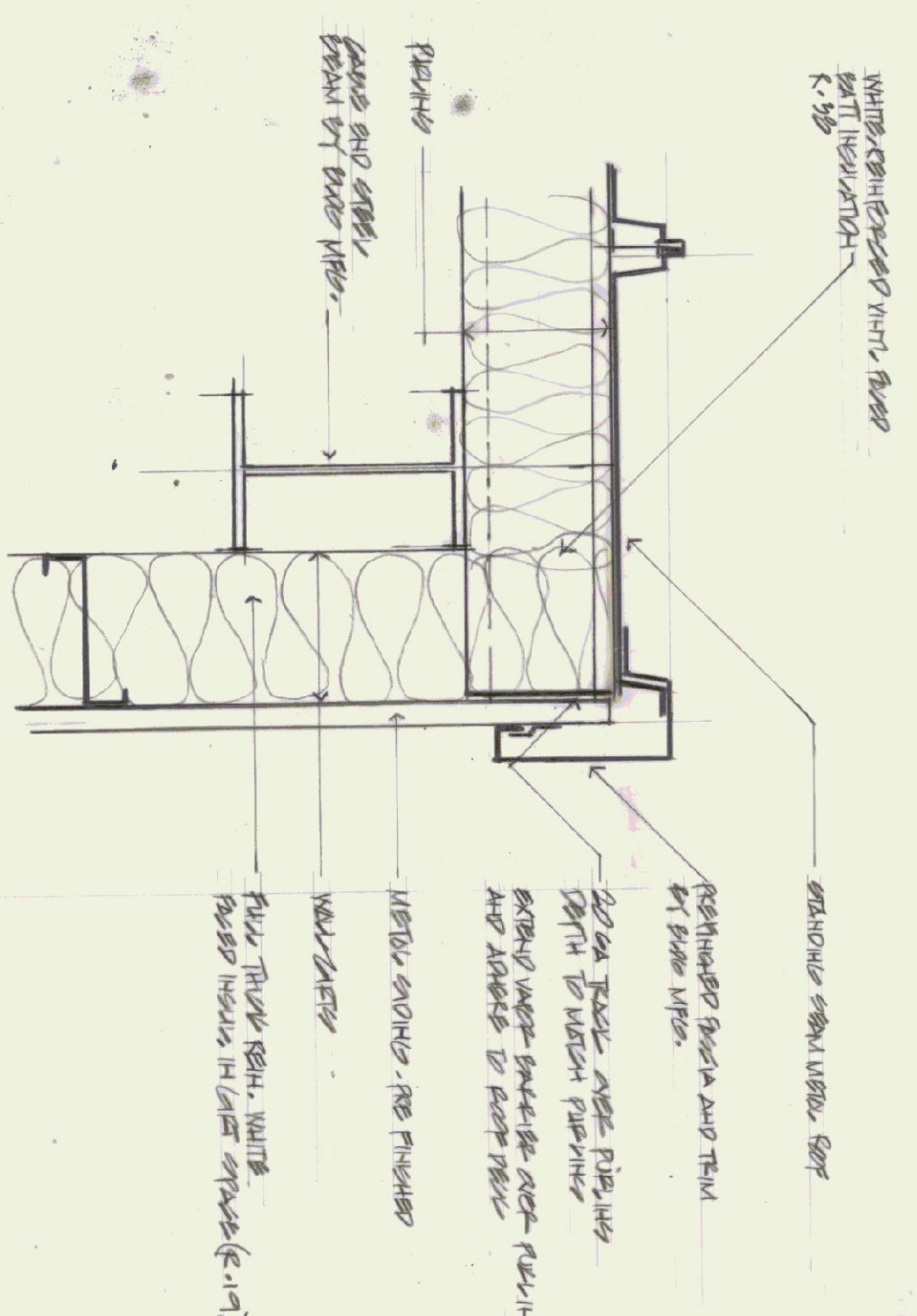
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 NEW AIRPORT HANGER,  
 MIDDLEBURY STATE AIRPORT  
 TITLE: MIDDLEBURY AIRPORT  
 ELEVATIONS  
 SECTION A

ARCHITECT  
 CHARLES E. METZ  
 ARCHITECT  
 THE GRIST MILL  
 BRADFORD VT 05033

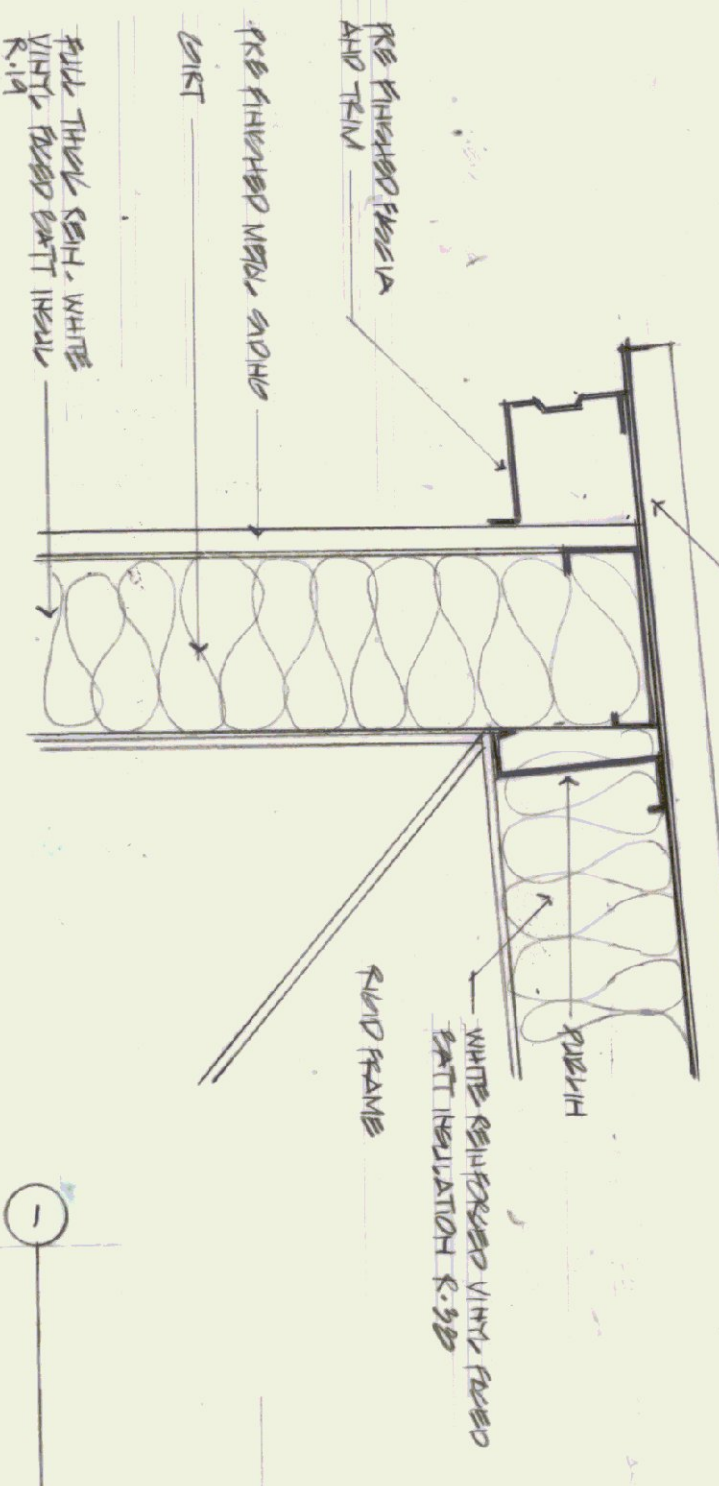
DRAWING:  
 A02

DOOR SCHEDULE

NO.	DOOR IDENTIFICATION	HEIGHT	WIDTH	CLASS	SET	TYPE
1	A	7'0"	4'0"	ALUM.	1	SELF CLOSING
2	B	7'0"	4'0"	ALUM.	2	SELF CLOSING
3	C	7'0"	4'0"	ALUM.	3	SELF CLOSING
4	D	7'0"	4'0"	ALUM.	4	SELF CLOSING
5	E	7'0"	4'0"	ALUM.	5	SELF CLOSING
6	F	7'0"	4'0"	ALUM.	6	SELF CLOSING
7	G	7'0"	4'0"	ALUM.	7	SELF CLOSING
8	H	7'0"	4'0"	ALUM.	8	SELF CLOSING



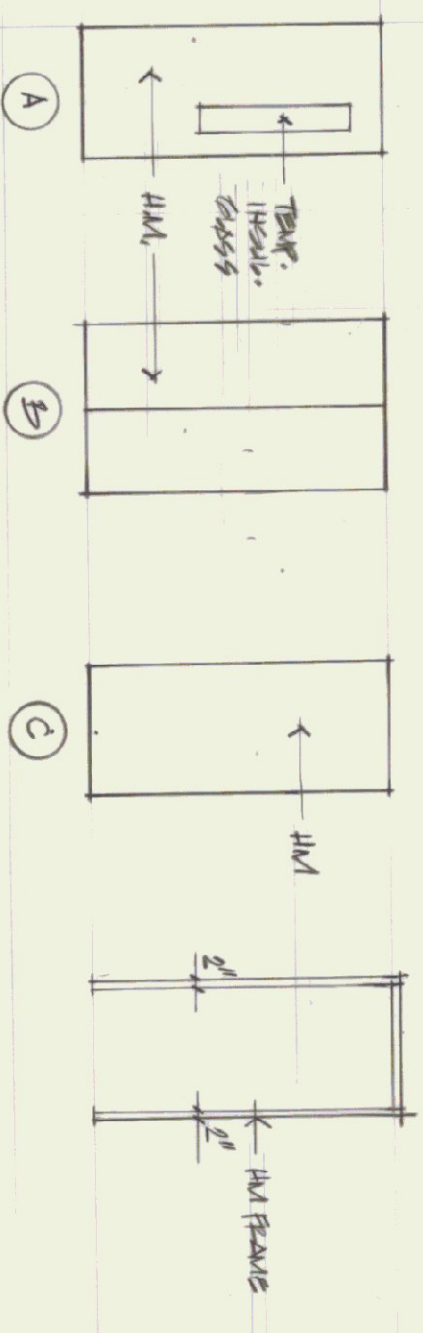
SECTION 1



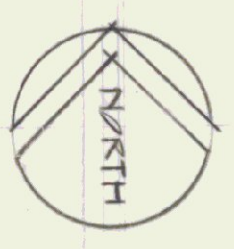
SECTION 2

NOTE: THIS DRAWING IS TO BE MODIFIED TO INCORPORATE STANDARD DETAILS BY BUILDING MFG.

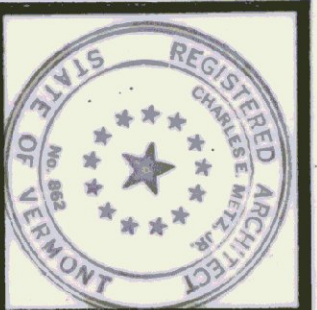
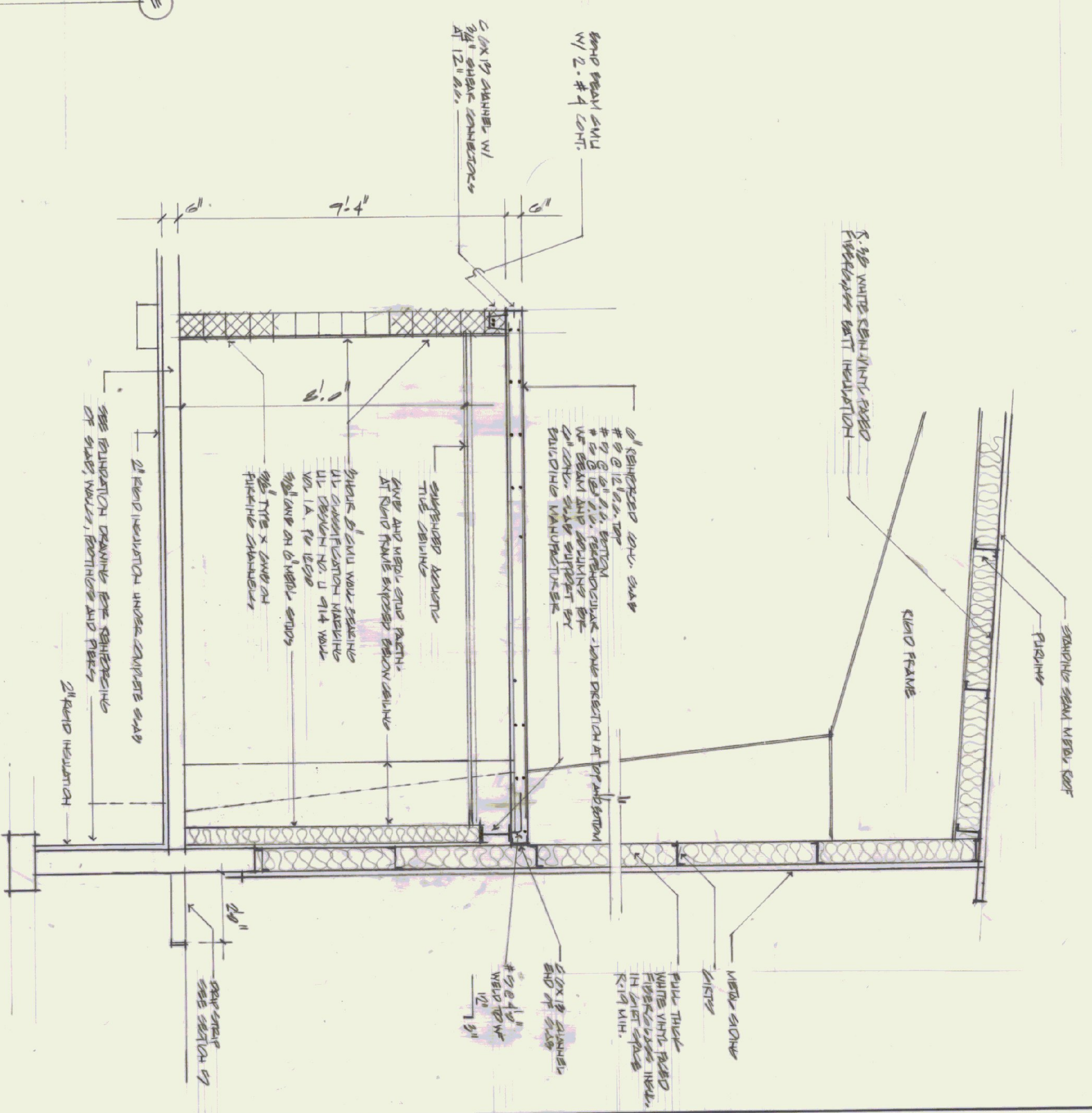
DOOR AND FRAME ELEVATIONS



ROOF FRAMING PLAN



BUILDING SECTION A



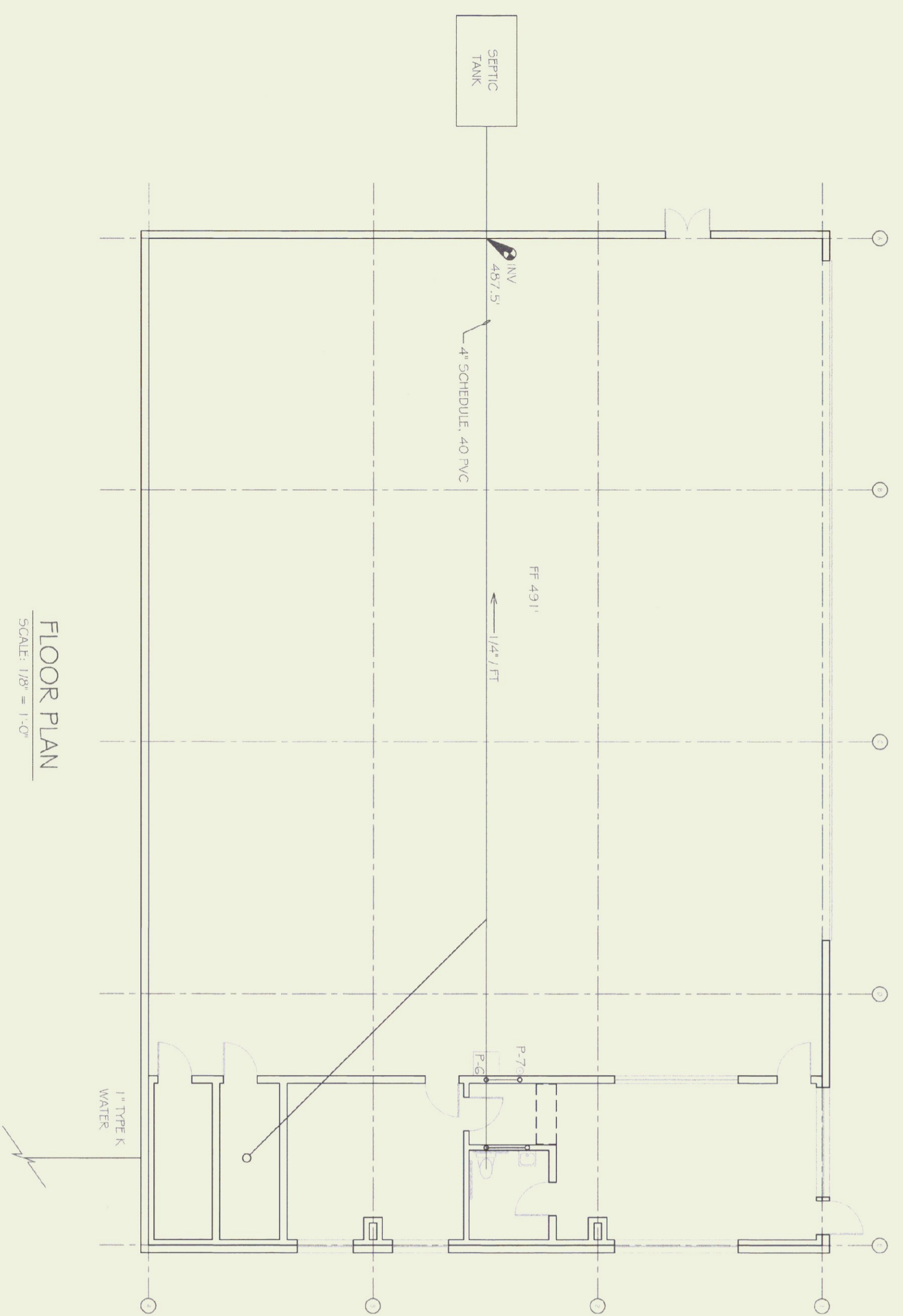
PROJECT:  
NEW AIRPORT HANGER  
MIDDLEBURY STATE AIRPORT  
TITLE:  
SECTION A - DOOR SCHEDULE  
ROOF FRAMING PLAN - DETAILS

CHARLES E. METZ  
ARCHITECT  
THE GRIST MILL  
BRADFORD VT 05033

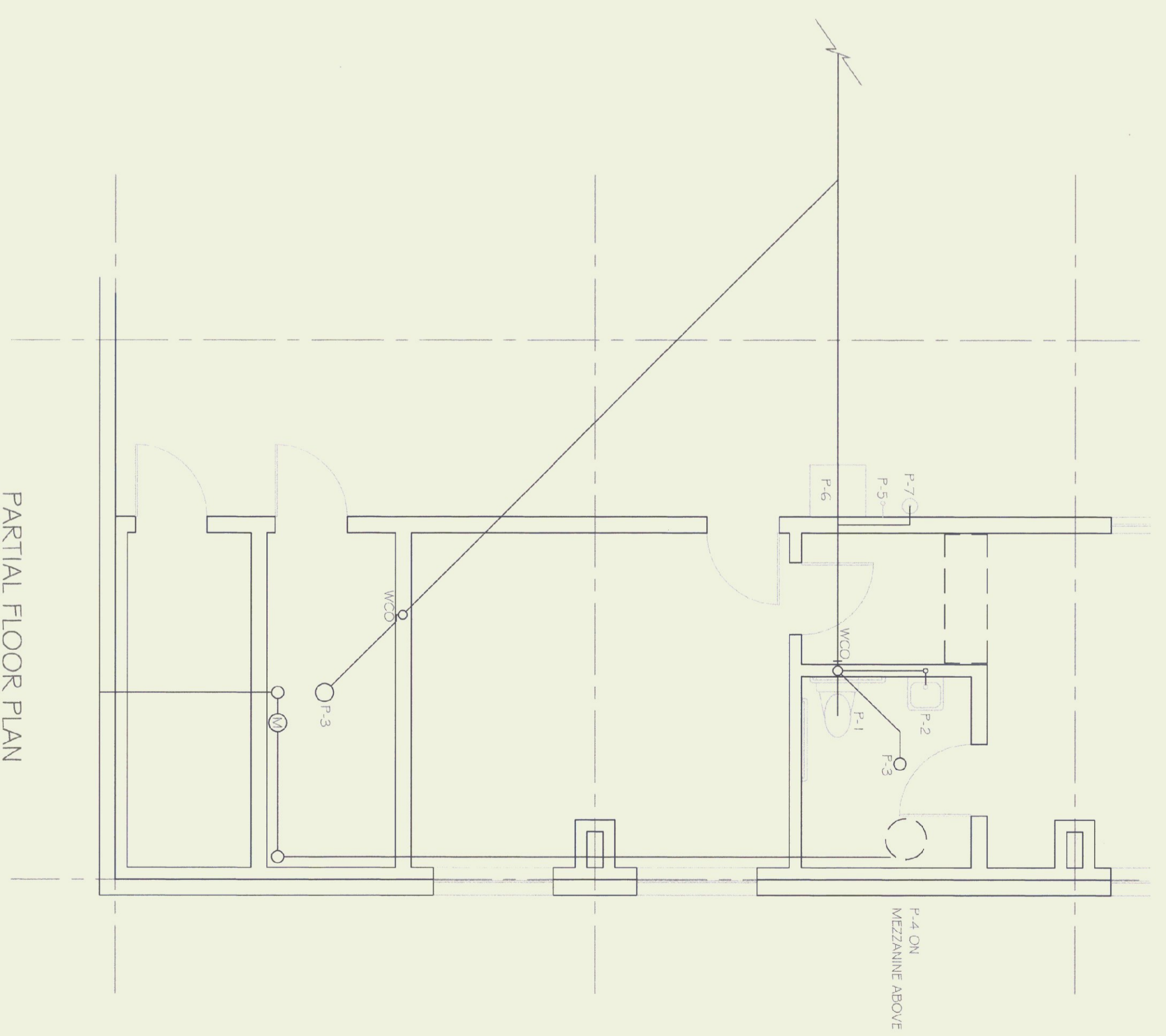


August 2002

DRAWING:



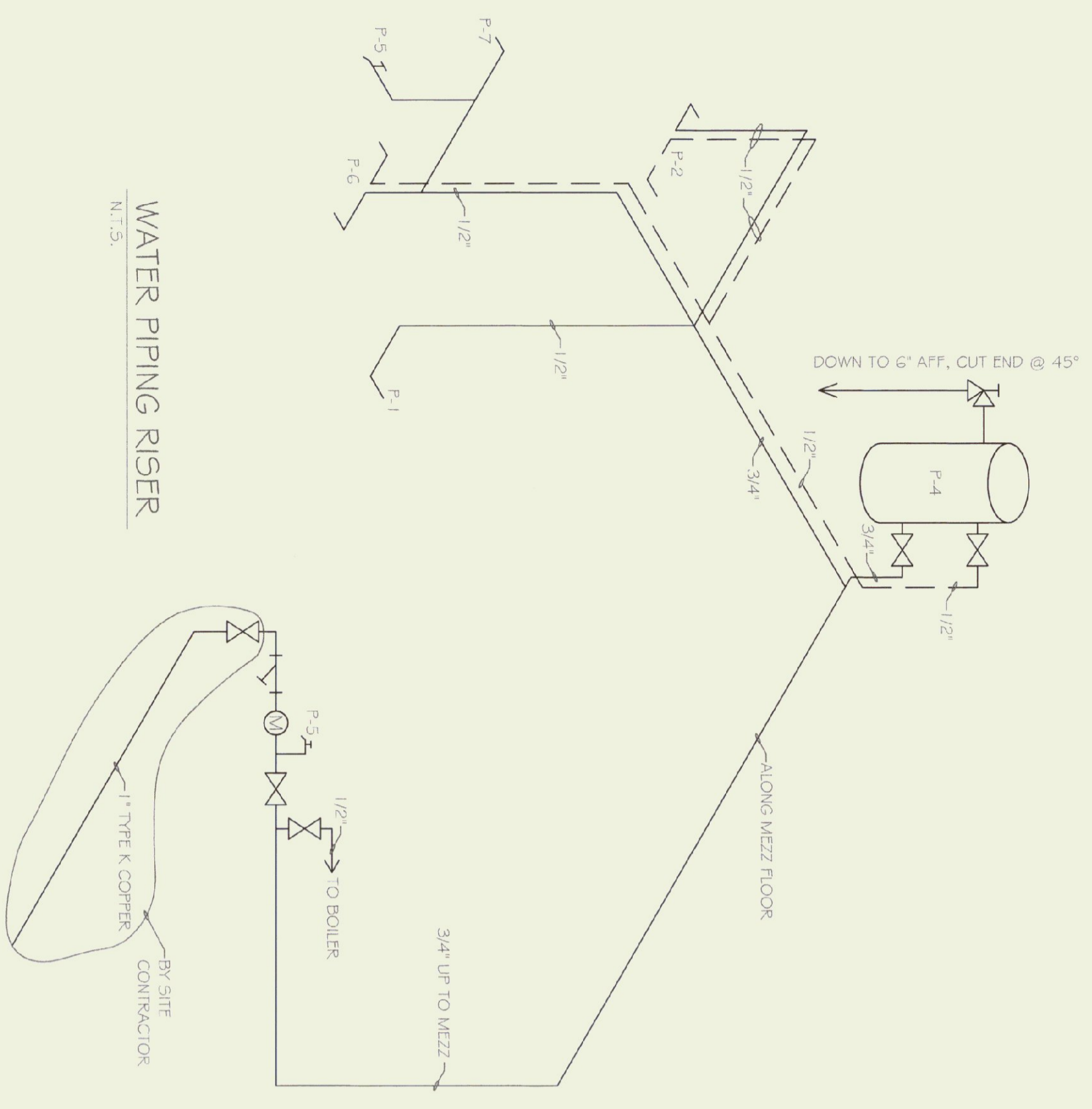
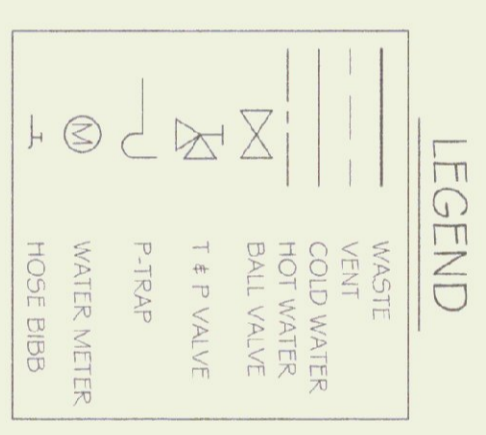
FLOOR PLAN  
SCALE: 1/8" = 1'-0"



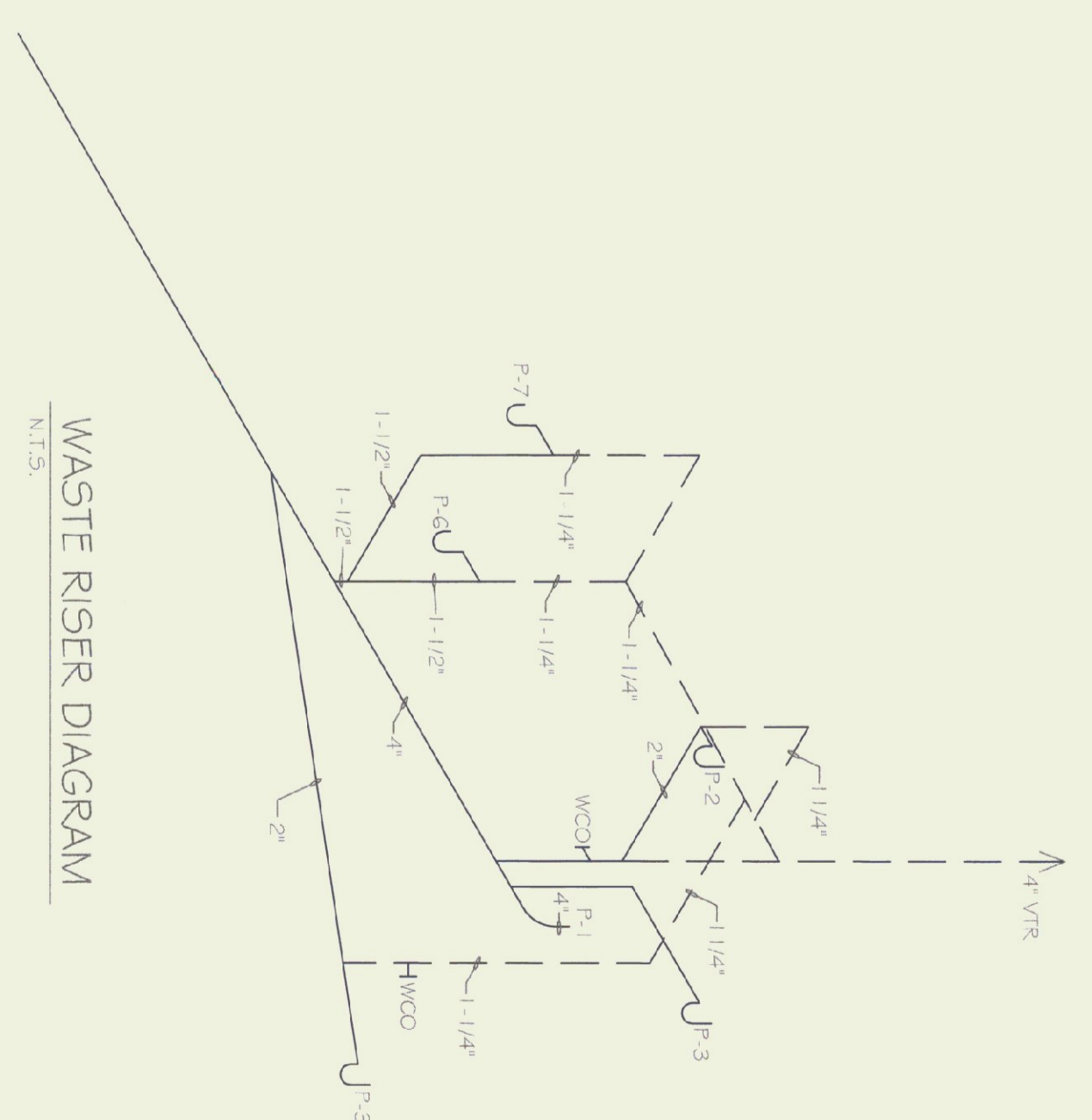
PARTIAL FLOOR PLAN  
SCALE: 1/4" = 1'-0"

FIGURE SCHEDULE

SYMBOL	FIXTURE	DESCRIPTION	CW	HW	WASTE	VENT	REMI
P-1	TOILET	AMERICAN STANDARD TOILET # 2158 100 WHITE VITREOUS CHINA HANDBICAP FLOOR MOUNT TANK TYPE PRESSURE ASSISTED ELONGATED WATERSEWER OPEN FRONT WITH BOLL GNS, KROVIDE SUPPLY SHDN.	1/2"	---	4"	4" VTR	---
P-2	WAVATORY	AMERICAN STANDARD TOILET # 032 1-026 WALL HUNG, WHITE VITREOUS CHINA FRONT OVERFLOW, 4" CENTER FLOOR TOES, TITINGS SHALL BE STANDARD RELINNT # 4 MODEL # 2395 000	1/2"	1/2"	2"	1-1/4"	---
P-3	FLOOR DRAIN	SLOTTED ROUND COVER, DRAIN SHALL DISCHARGE THROUGH A P TRAP OUTLET OF P TRAP SHALL HAVE A TWO INCH DRAIN WITH INTEGRAL FLOOR CLEANOUT	---	---	---	---	---
P-4	WATER HEATER	BRANDFORD WHITE 6 GALLON ELECTRIC M-LU555	3/4"	1/2"	---	---	---
P-5	HOSE BIBB	MATTS SR-1 WEG&L VACUUM BREAKER	1/2"	---	---	---	---
P-6	LAUNDRY TUB	1/2" 1-1 WALL HUNG, WESTERNER # FUD05, FAUCET: AMERICAN STANDARD RELINNT # MODEL # 2395 000	1/2"	1/2"	1-1/2"	1-1/2"	---
P-7	SPRINKLER	GARDIAN EQUIPMENT # G1814 STAINLESS STEEL BOWL WITH WALL MOUNTING BRACKET	1/2"	---	1-1/2"	1-1/2"	---



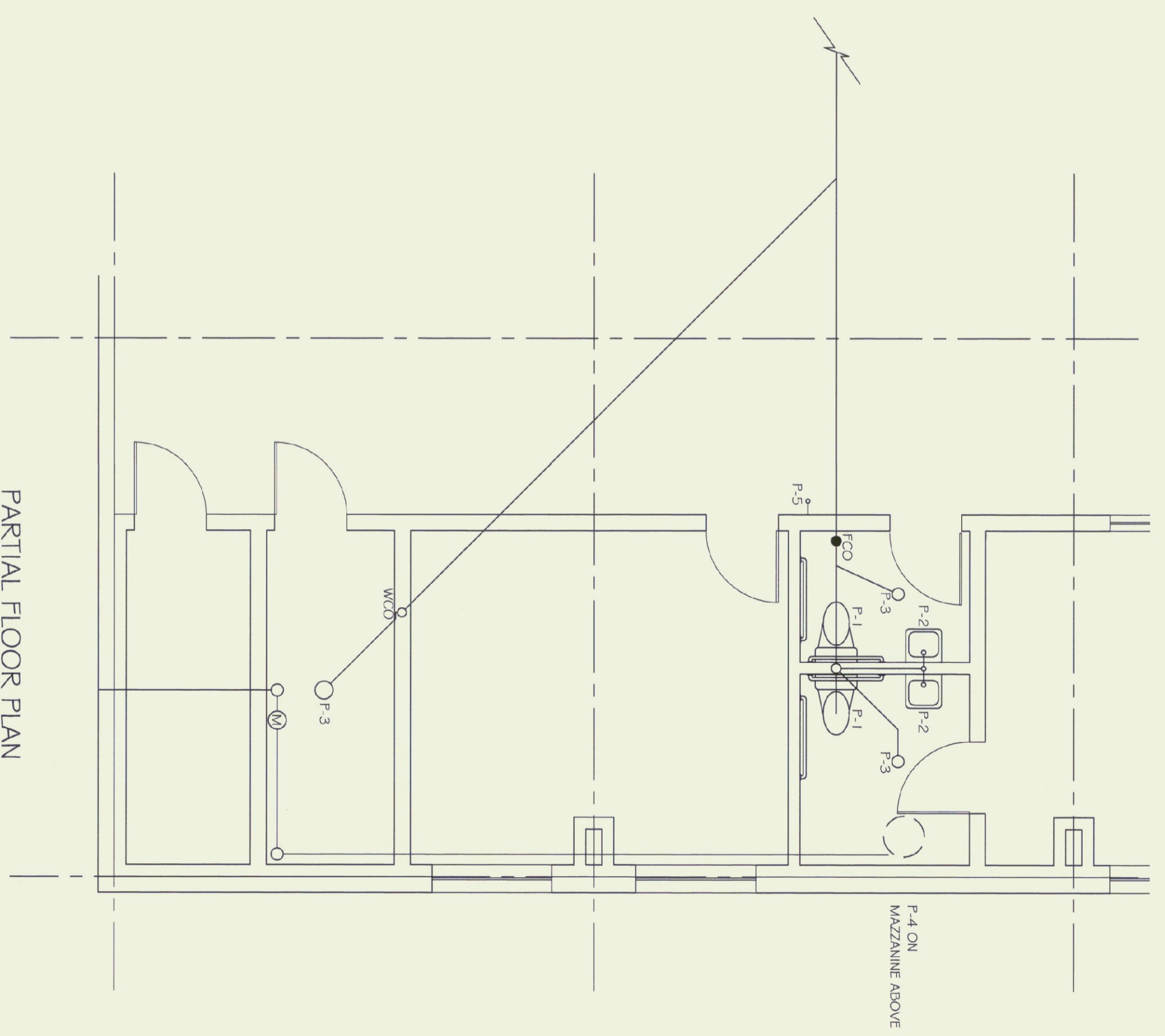
WATER PIPING RISER  
N.T.S.



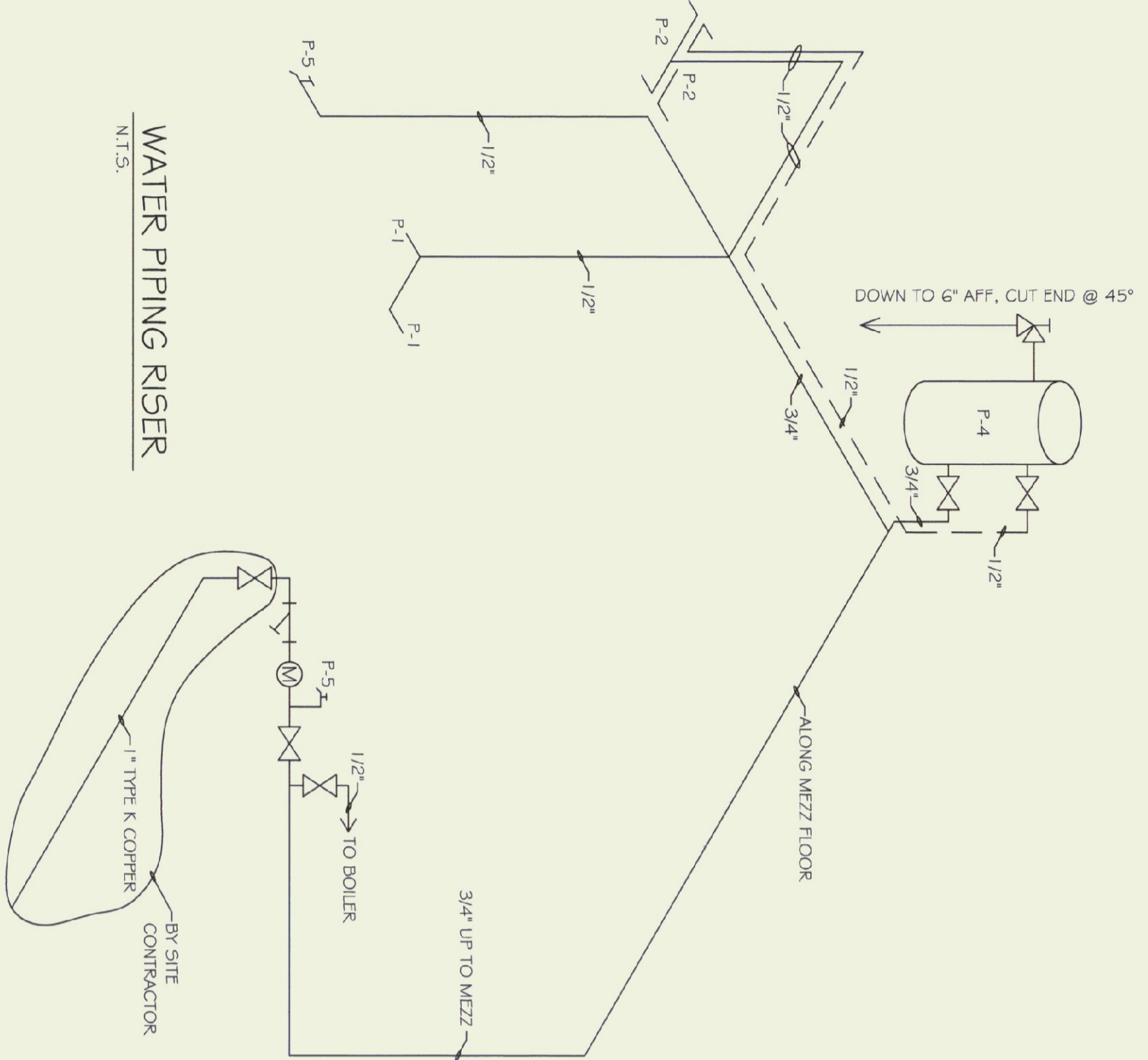
WASTE RISER DIAGRAM  
N.T.S.



FLOOR PLAN  
SCALE: 1/8" = 1'-0"



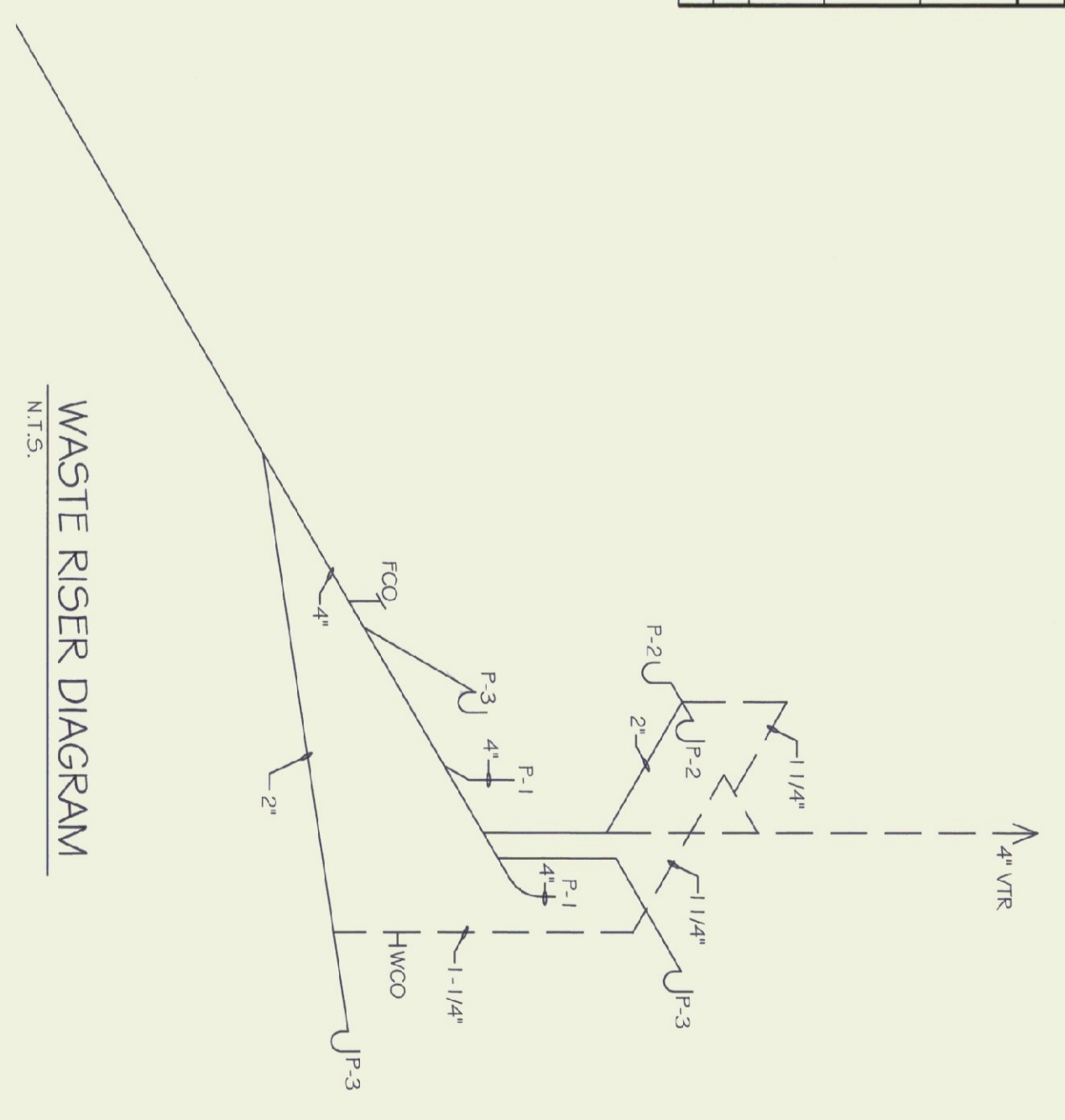
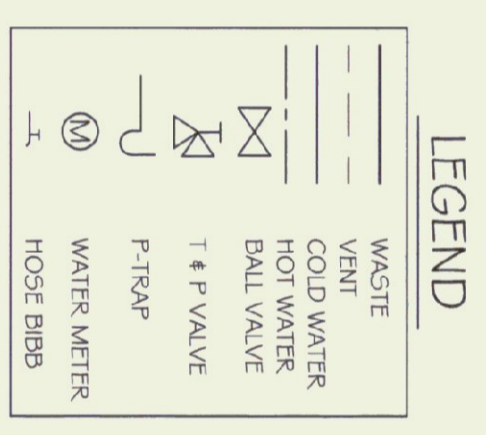
PARTIAL FLOOR PLAN  
SCALE: 1/4" = 1'-0"



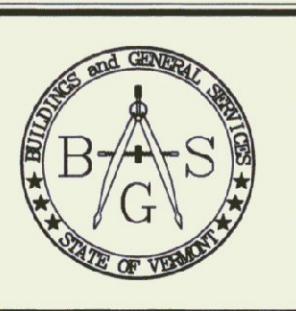
WATER PIPING RISER  
N.T.S.

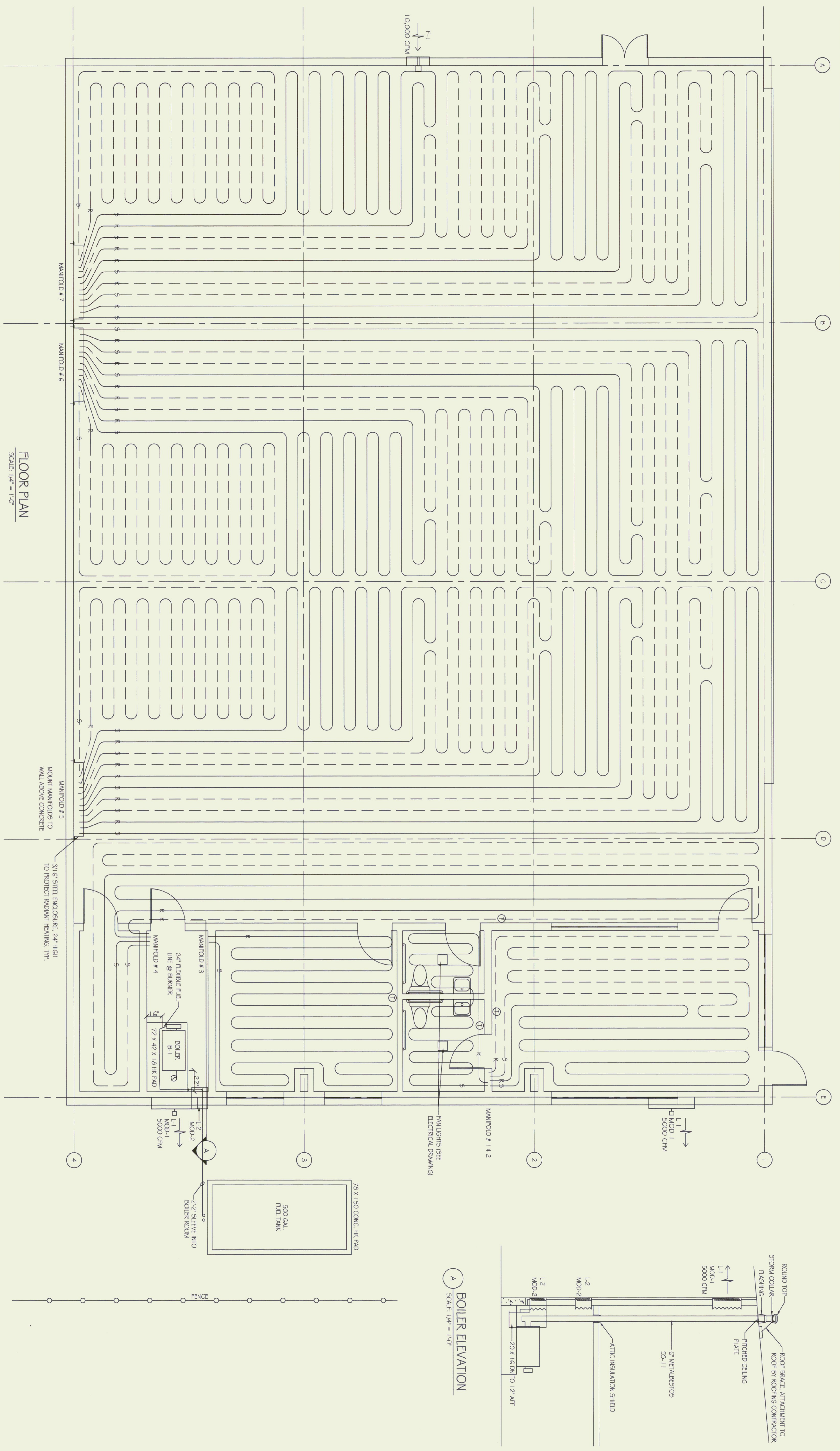
**FIXTURE SCHEDULE**

SYMBOL	FIXTURE	DESCRIPTION	CW	HW	WASTE	VENT	REM
P-1	TOILET	AMERICAN STANDARD TOILET # 2168 100 WHITE VITREOUS CHINA, HANDICAP FLOOR MOUNT, TANK TYPE, PRESSURE ASSISTED, ELONGATED, WATERSAVER, FLOOR MOUNT, CLOSURE, 15\"/>					
P-2	LAVATORY	AMERICAN STANDARD TOILET # 032 1 026 WALL HUNG, WHITE VITREOUS CHINA, SINGLE LEVER CONTROL, W/OP UP DRAIN # P-TRAP AMERICAN STANDARD RELIENT # MODEL # 2305 000	1/2"	1/2"	2"	1-1/4"	
P-3	FLOOR DRAIN	SLOTTED ROUND COVER, DRAIN SHALL DISCHARGE THROUGH A P-TRAP OUTLET OF P-TRAP SHALL HAVE A TWO INCH DRAIN WITH INTEGRAL FLOOR CLEANOUT.			2"	1-1/4"	
P-4	WATER HEATER	BRADYOKED WHITE 6 GALLON ELECTRIC M41J595	3/4"	1/2"			
P-5	HOSE BIBB	WATTS SR. 1 WSCS-1 VACUUM BREAKER	1/2"				



WASTE RISER DIAGRAM  
N.T.S.





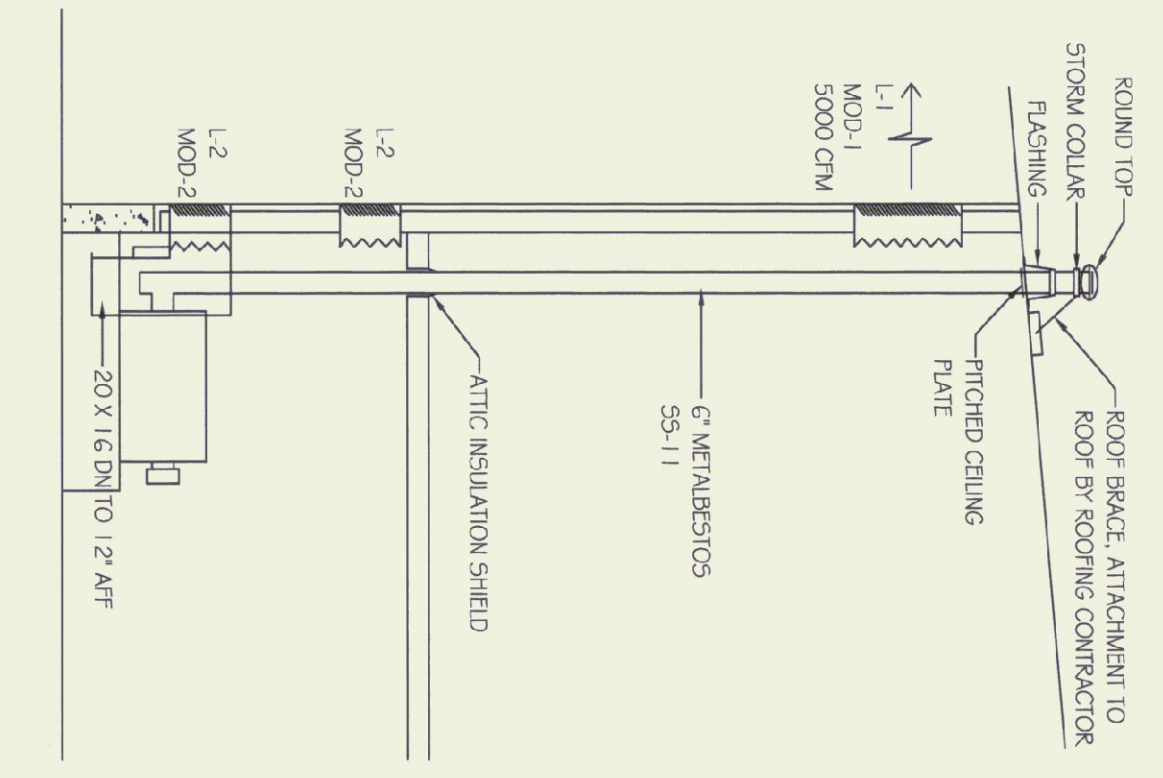
FLOOR PLAN  
SCALE: 1/4" = 1'-0"

MANIFOLD #	LOCATION	RADIANT LOOP #	AREA SERVED	TUBE SIZE	TUBE LENGTH (IN FLOOR)	GPM	ΔP	WATER TEMP. (SURFACE)	FLOOR TEMP. (SURFACE)	BTU/SF
1	WAITING ROOM	1	WAITING	5/8"	160	0.9	2.1	94	79.7	30.5
2	BATHROOM	2	BATHROOM	5/8"	94	0.75	0.9	105	82.7	42.6
3	BOILER ROOM	3	OFFICE	5/8"	214	1.1	3.3	89	76.9	24.5
4	BOILER ROOM	4	HANGER	5/8"	272	1.9	12.4	90	72.5	35.5
5	BOILER ROOM	5	HANGER	5/8"	260	1.8	11.0	90	72.5	35.5
6	BOILER ROOM	6	HANGER	5/8"	223	1.6	7.3	90	72.5	35.5
7	HANGER	7	HANGER	5/8"	223	1.6	7.3	90	72.5	35.5
8	HANGER	8	HANGER	5/8"	223	1.6	7.3	90	72.5	35.5
9	HANGER	9	HANGER	5/8"	223	1.6	7.3	90	72.5	35.5
10	HANGER	10	HANGER	5/8"	223	1.6	7.3	90	72.5	35.5
11	HANGER	11	HANGER	5/8"	221	1.6	7.1	90	72.5	35.5
12	HANGER	12	HANGER	5/8"	226	1.6	7.5	90	72.5	35.5

MANIFOLD #	LOCATION	RADIANT LOOP #	AREA SERVED	TUBE SIZE	TUBE LENGTH (IN FLOOR)	GPM	ΔP	WATER TEMP. (SURFACE)	FLOOR TEMP. (SURFACE)	BTU/SF
6	HANGER	13	HANGER	5/8"	226	1.6	7.5	90	72.5	35.5
6	HANGER	14	HANGER	5/8"	221	1.6	7.1	90	72.5	35.5
6	HANGER	15	HANGER	5/8"	223	1.6	7.3	90	72.5	35.5
6	HANGER	16	HANGER	5/8"	223	1.6	7.3	90	72.5	35.5
6	HANGER	17	HANGER	5/8"	223	1.6	7.3	90	72.5	35.5
6	HANGER	18	HANGER	5/8"	223	1.6	7.3	90	72.5	35.5
7	HANGER	19	HANGER	5/8"	223	1.6	7.3	90	72.5	35.5
7	HANGER	20	HANGER	5/8"	223	1.6	7.3	90	72.5	35.5
7	HANGER	21	HANGER	5/8"	223	1.6	7.3	90	72.5	35.5
7	HANGER	22	HANGER	5/8"	223	1.6	7.3	90	72.5	35.5
7	HANGER	23	HANGER	5/8"	221	1.6	7.1	90	72.5	35.5
7	HANGER	24	HANGER	5/8"	226	1.6	7.5	90	72.5	35.5

- NOTES:
- TUBING SPACING TO BE RADIUS.
  - DEVIATION FROM LAYOUT SHALL BE SUBMITTED FROM TUBING MANUFACTURERS AUTHORIZED REPRESENTATIVE.
  - TUBING INSULATION SHALL BE BY MANUFACTURERS AUTHORIZED REPRESENTATIVE.
  - ALL TUBING TO BE 6" FROM WALLS, SPACED 1/2" O.C. LONG.

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



**EQUIPMENT SCHEDULE**

PLAN SYMBOL	DESCRIPTION	MANUF. # MODEL	CHARACTERISTICS	ELECTRIC	NOTES
B-1	BOILER	BUDERUS 215-6	294,000 BTU/GROSS; 223,000 BTU NET (R.K. RIFLE); 40 SERIES-T/O BURNER	VOLTS/Ø/PHZ 120V/1Ø/2.2 A	
XT-1	EXP. TANK	AMTROL SX 30V	14 GALLON TANK 11.3 GALLON ACCEPTANCE		
L-1	RELIEF LOUVER	VENT PRODUCTS 2750	44" x 44"		
MOD-1	RELIEF DAMPER	VENT PRODUCTS 5705	44" x 44"	120V/1Ø	DELTAO DIRECT COUPLED ACTUATOR SPRING WOUND N.C.
L-2	RELIEF LOUVER	VENT PRODUCTS 2750	20" x 16"		
MOD-2	RELIEF DAMPER	VENT PRODUCTS 5705	20" x 16"	120V/1Ø	DELTAO DIRECT COUPLED ACTUATOR SPRING WOUND N.C.

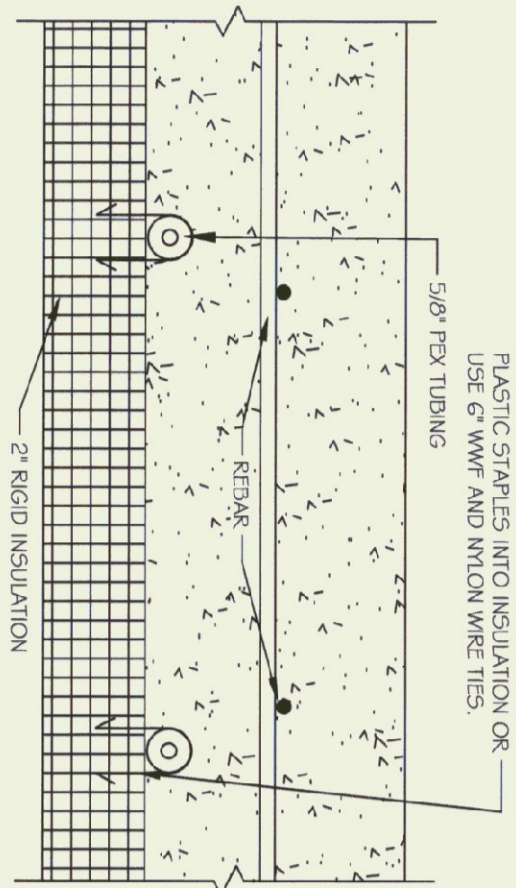
**CIRCULATOR SCHEDULE**

PLAN SYMBOL	SYSTEM	MANUF. # MODEL	C.F.M.	S.P. IN.	SONES	FEET HEAD	H.P.	ELECTRICAL	R.P.M.	NOTES
C-1	MAIN	TACO 007	8.5	6.0	1/25	120V/1Ø	3250			
C-2	HANGER ZONE	TACO 16.1	38.5	15.0	1/3	120V/1Ø	1750			
C-3	HANGER INJECTION	TACO 005	4.6	3.5	1/35	120V/1Ø	3250			
C-4	BATHROOM ZONE	TACO 005	0.75	5.0	1/35	120V/1Ø	3250			
C-5	WAITING ROOM ZONE	TACO 005	1.9	4.0	1/35	120V/1Ø	3250			
C-6	OFFICE ZONE	TACO 005	1.0	4.5	1/35	120V/1Ø	3250			

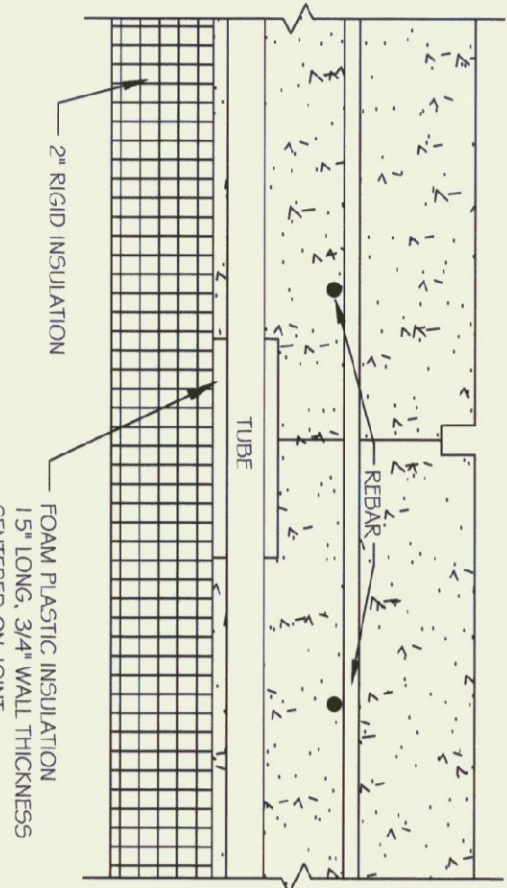
**FAN SCHEDULE**

PLAN SYMBOL	SYSTEM	MANUF. MODEL # TYPE	C.F.M.	S.P. IN.	SONES	FAN RPM	HP	ELECTRICAL	NOTES
F-1	HANGER VENT	GREENHECK 585 1136	10,000	1.25	13.2	431	1/2	120V/1Ø	WATERHEAT HOOD, SCREEN # BDD

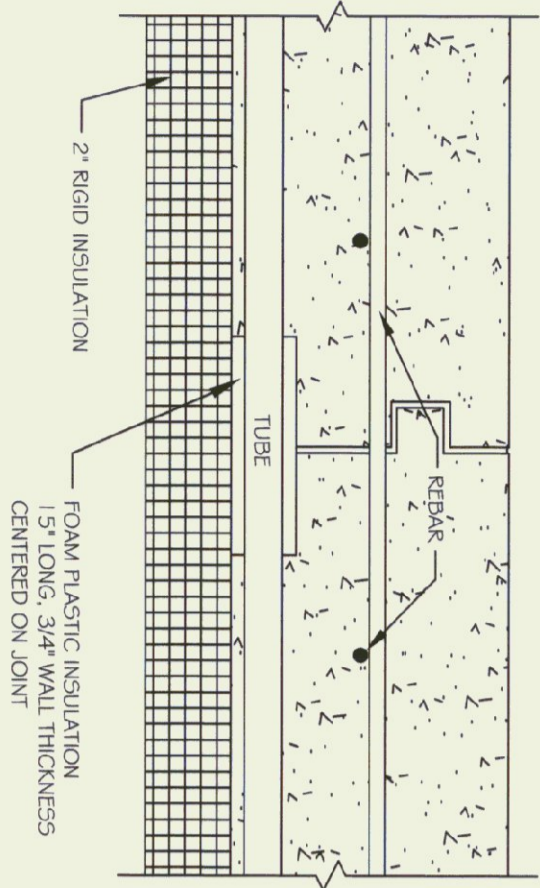
NOTE:  
CONTRACTOR TO TAKE SPECIAL CARE WHEN CUTTING JOINT NOT TO DAMAGE TUBING.



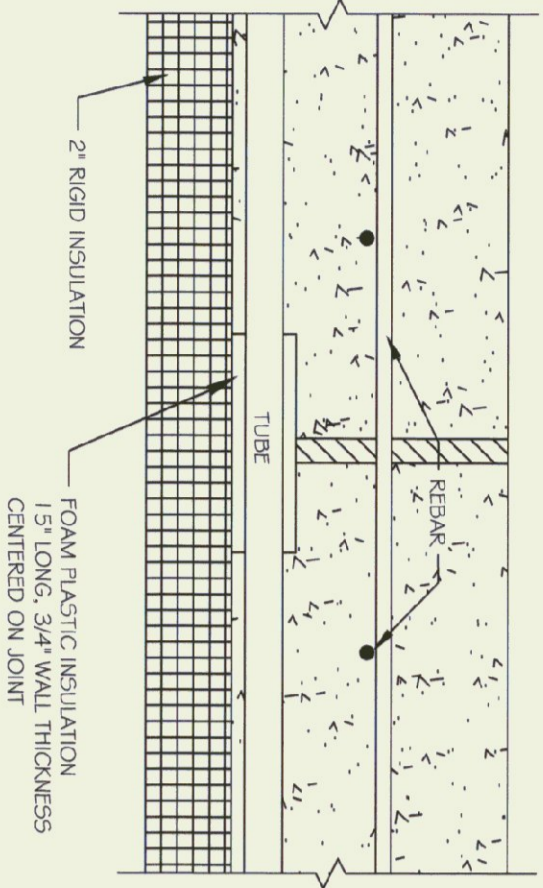
**TYPICAL CROSS SECTION**  
NOT TO SCALE



**SAW CUT JOINT**  
NOT TO SCALE



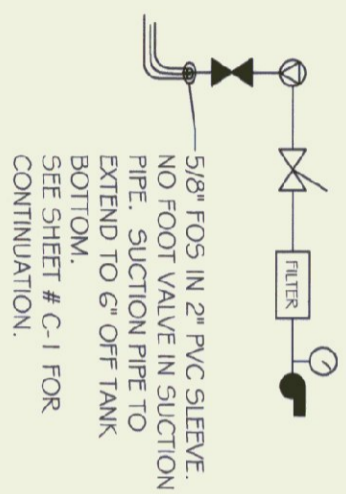
**CONSTRUCTION JOINT**  
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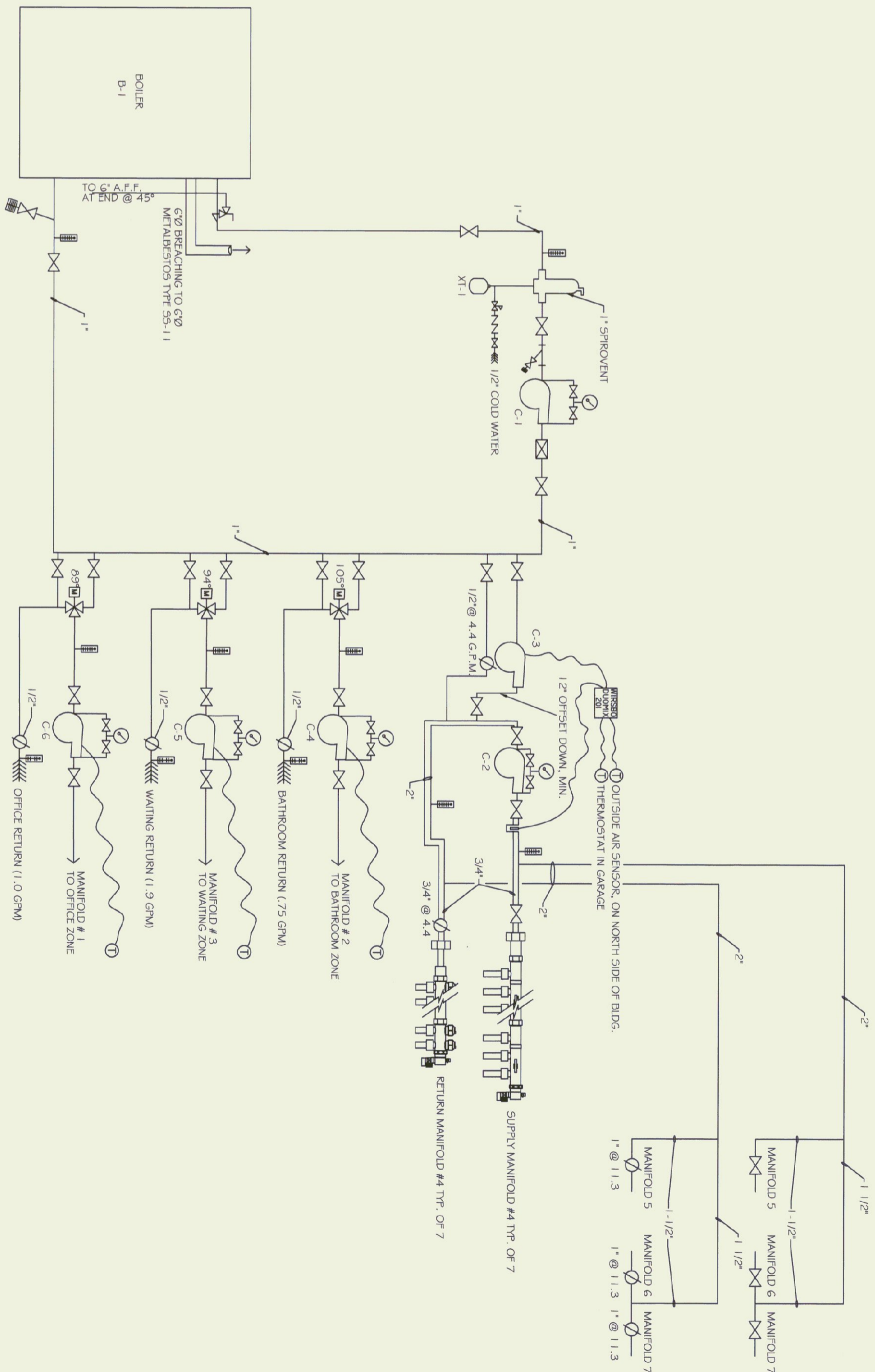
**EXPANSION JOINT**  
NOT TO SCALE

**LEGEND**

	BALL VALVE, FULL PORTED, 5.5" BALL
	STRAINER & BALL VALVE BLOW DOWN
	MIXING VALVE TACO 5003-C1
	FREEMATIC VALVE
	CHECK VALVE
	FREEMATIC VALVE
	CHECK VALVE
	PRESSURE RELIEF VALVE, PIPE TO 6" A.F.F.
	THERMOSTAT MOUNT @ 54" A.F.F.
	THERMOMETER
	TACO FLO CHECK
	CIRCULATOR
	PRESSURE / VACUUM GAUGE
	TOUR-ANDERSON STAD BALANCING VALVE
	FUEL OIL BURNER
	FUEL OIL RATED, FULL PORT, 5.5" BALL VALVE
	SUNTEC RV-36



**FUEL SUPPLY SCHEMATIC**  
NOT TO SCALE



**HYDRONIC PIPING SCHEMATIC**  
NOT TO SCALE  
ALL PIPING 3/4" UN



STATE OF VERMONT  
Department of Buildings  
and General Services  
Agency of Administration  
Montpelier, Vermont



MIDDLEBURY STATE AIRPORT  
NEW HANGER BUILDING  
RADIANT HEAT DETAILS

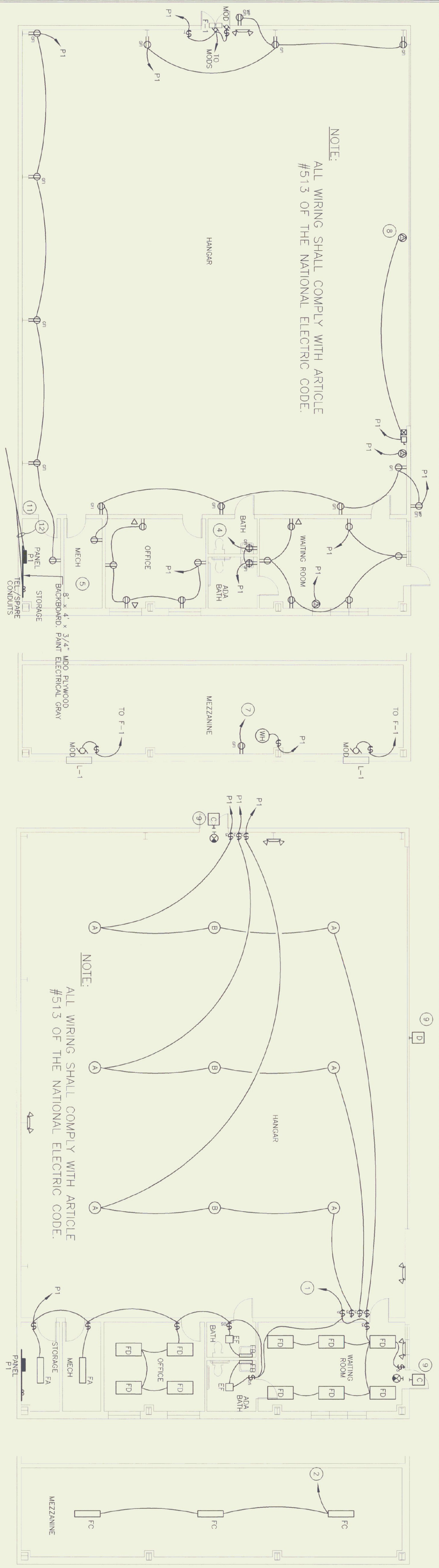
MIDDLEBURY, VERMONT

SCALE: AS NOTED  
DATE: AUGUST 2001  
DRAWN BY: N. HERSEY  
APPR. BY: TEIGH

MIDDLEBURY  
NEW HANGER  
BUILDING  
RADIANT HEAT  
DETAILS

M-2

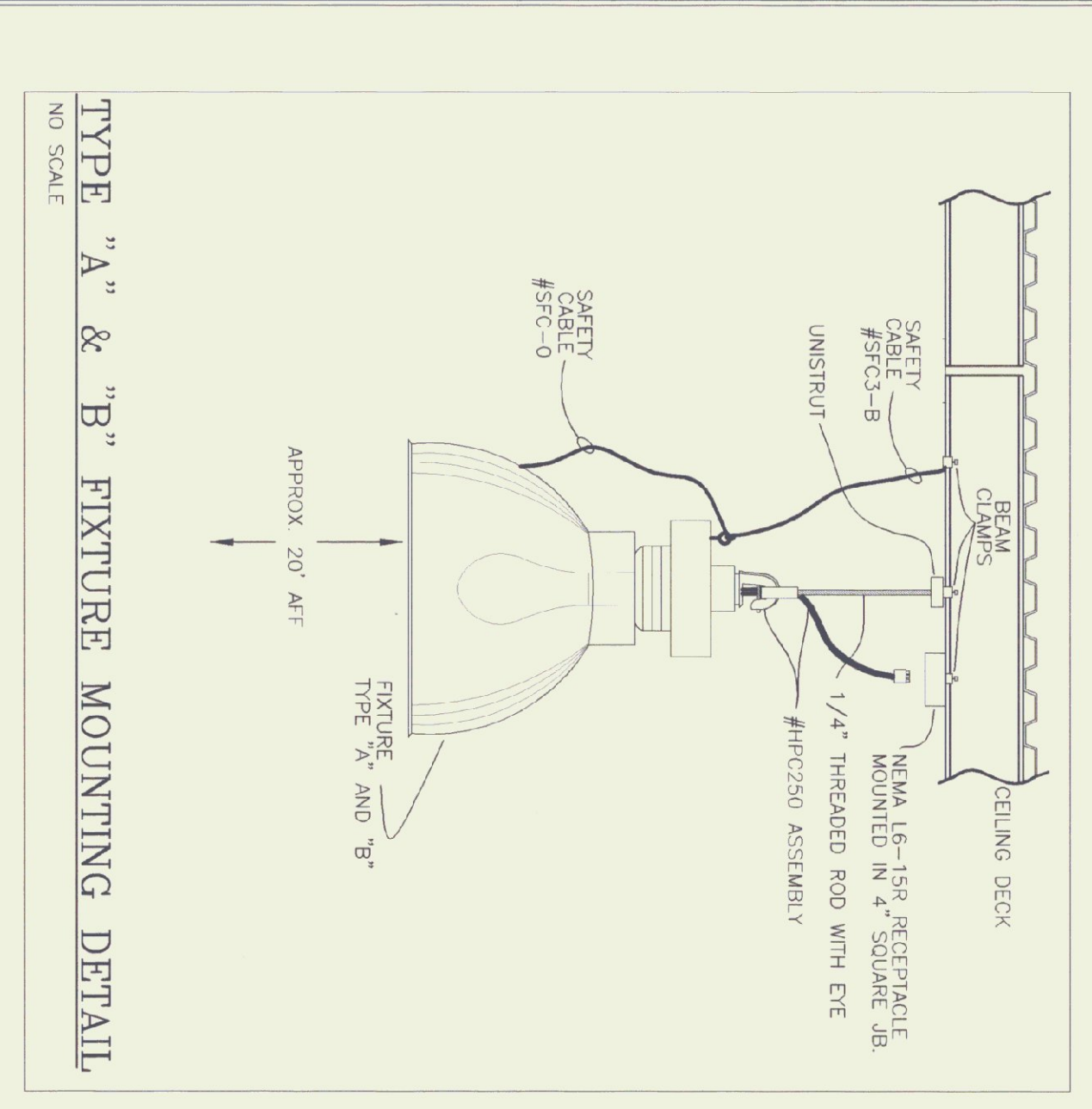
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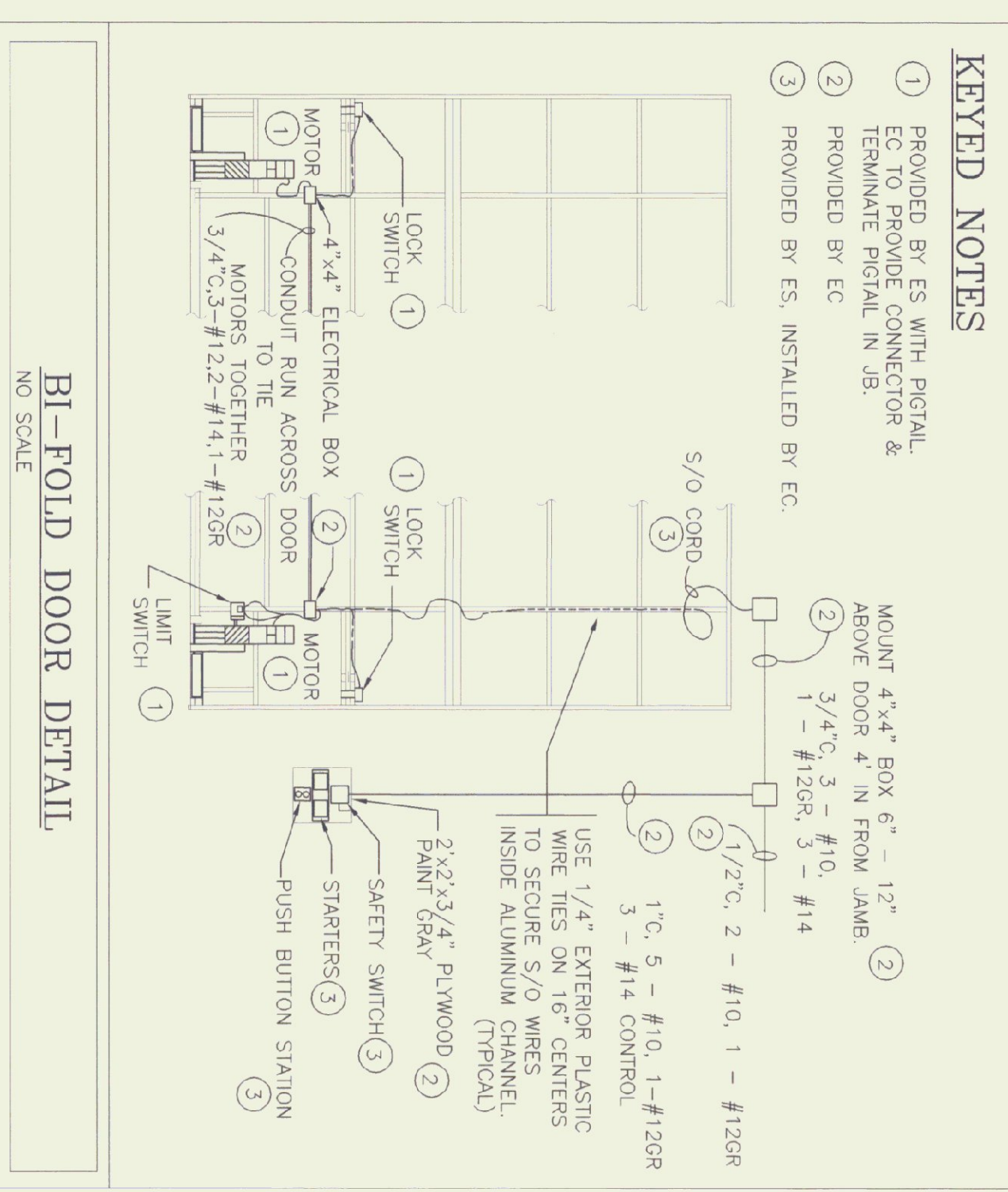
**ELECTRICAL LIGHTING PLAN**  
SCALE: 1/8" = 1'-0"

STATE OF VERMONT  
Professional Engineer  
No. 8197  
Professional Engineer

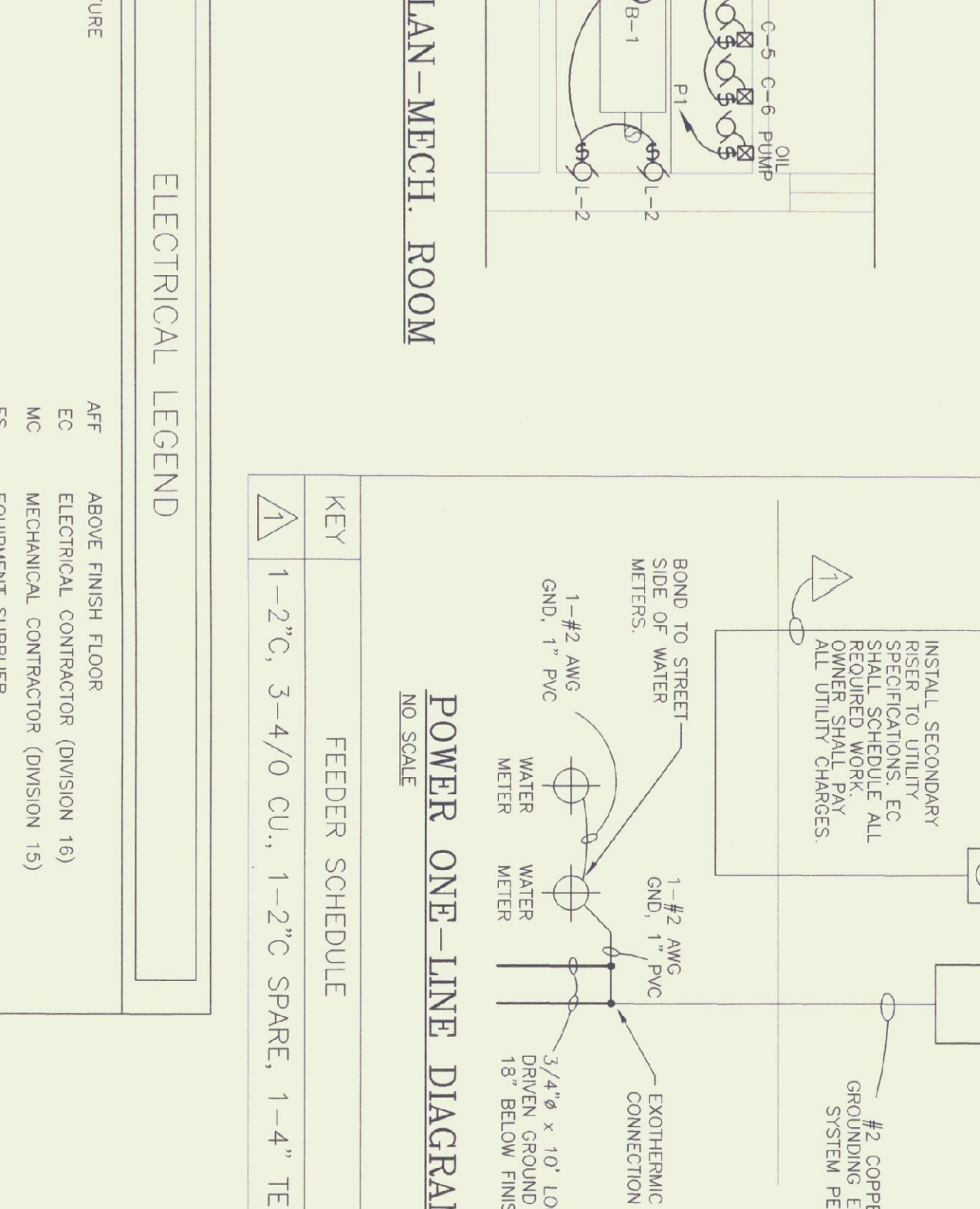
STATE OF VERMONT  
Department of Buildings and General Services  
Agency of Administration  
Montpelier, Vermont



**TYPE "A" & "B" FIXTURE MOUNTING DETAIL**  
NO SCALE



**BI-FOLD DOOR DETAIL**  
NO SCALE



**POWER ONE-LINE DIAGRAM**  
NO SCALE

**PANEL DESIGNATOR**

PANEL: MDP  
LOCATION: MECHANICAL ROOM  
MOUNTING SURFACE: 120/240V, 200 AMP MAIN CIRCUIT BREAKER  
MOUNTING HEIGHT: 4'-0"  
MOUNTING DISTANCE: 25.2 KW  
CONNECTED LOAD: 25.2 KW

CKT NO.	KW LOAD	DESCRIPTION	BREAKER	BREAKER AMP	DESCRIPTION	KW LOAD	CKT NO.
1	0.9	HANGAR RECEPTACLES	F	20	HANGAR RECEPTACLES	0.9	2
3	0.7	HANGAR RECEPTACLES	1	20	WAITING ROOM	1.1	4
5	7.5	WELDING RECEPTACLE	2	50	A/C RECEPTACLE	1.5	6
7	0.8	BI-FOLD DOOR	1	20	BATHROOM/MEZZANINE	0.6	10
9	0.4	EXTERIOR LIGHTING	1	20	OFFICE RECEPTACLES	0.9	12
11	0.4	HANGAR LIGHTS	1	20	OFFICE LIGHTING	1.5	14
13	0.9	HANGAR LIGHTS	1	20	OFFICE LIGHTING	0.3	16
15	0.9	HANGAR LIGHTS	1	20	OFFICE LIGHTING	1.4	18
17	0.9	HANGAR LIGHTS	1	20	OFFICE LIGHTING	1.4	18
19	0.9	HANGAR LIGHTS	1	20	OFFICE LIGHTING	1.4	18
21	0.9	HANGAR LIGHTS	1	20	OFFICE LIGHTING	1.4	18
23	0.1	TEMP. CONTROL POWER	1	20	OFFICE LIGHTING	1.5	22
25	0.1	SPARE	1	20	OFFICE LIGHTING	0.8	24
27	0.1	SPARE	1	20	OFFICE LIGHTING	0.8	26
29	0.1	SPARE	1	20	OFFICE LIGHTING	0.8	28
30	0.1	SPARE	1	20	OFFICE LIGHTING	0.8	28

- KEYED NOTES:**
- UP TO MEZZ. LIGHTING
  - DOWN TO MEZZ. LIGHTING
  - SURFACE MOUNT QUAD RECEPTACLE AT 30" AFF.
  - TO RECEPTACLE ABOVE.
  - REFER TO DETAIL FOR MECHANICAL ROOM WIRING.
  - CONFER EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH MC PRIOR TO ELECTRICAL RUGH-IN.
  - TO RECEPTACLE CIRCUIT BELOW.
  - REFER TO BI-FOLD DOOR WIRING DETAIL AND WITH MANUFACTURER'S INSTALLATION MANUAL. COORD. ALL WORK WITH INSTALLER.
  - EXTERIOR LIGHTING SHALL BE ON SEPARATE CIRCUIT.
  - PROVIDE 20-A, 120-V CIRCUIT FOR TEMPERATURE CONTROL CONTRACTOR/MC.
  - LOCATION OF WATER SERVICE ENTRANCE. BOND AS REQUIRED.
  - 1-4" CONDUIT FROM UTILITY POLE FOR TELEPHONE. 1-2" CONDUIT WITH 3-4/0 CU REFER TO SITE FROM POLE. CAP AND MARK. 1-2" CONDUIT WITH 3-4/0 CU REFER TO SITE OWNER AND UTILTY.
  - 1-4" CONDUIT FROM UTILITY POLE FOR TELEPHONE. 1-2" CONDUIT WITH 3-4/0 CU REFER TO SITE OWNER AND UTILTY.

**ELECTRICAL LEGEND**

KEY	DESCRIPTION	SUPPLIED BY	INSTALLED BY	COND. & CAP. MARK #	ELECTRICAL REQUIREMENTS	VOLTS	AMPS	STARTER PROVIDED BY	INSTALLED BY	ELECTRICAL DISCONNECT PROVIDED BY	REMARKS
⊕	FLUORESCENT FIXTURE	GC	GC	-	-	240	20	ES	-	-	-
○	LIGHT FIXTURE	GC	GC	-	-	240	50	ES	-	-	-
⊙	EXIT LIGHT	GC	GC	-	-	240	50	ES	-	-	-
⊕	EMERGENCY LIGHT	GC	GC	-	-	240	20	ES	-	-	-
⊕	SWITCH - SINGLE POLE	GC	GC	-	-	240	20	ES	-	-	-
⊕	SWITCH - SINGLE POLE WITH OIL BURNER PLATE	GC	GC	-	-	240	20	ES	-	-	-
⊕	SWITCH - SINGLE POLE OCCUPANCY SENSOR	GC	GC	-	-	240	20	ES	-	-	-
⊕	SWITCH - 3-WAY	GC	GC	-	-	240	20	ES	-	-	-
⊕	SWITCH - WITH PILOT LIGHT	GC	GC	-	-	240	20	ES	-	-	-
⊕	MOTOR STARTER PROV. BY MC, INSTALLED BY EC.	GC	GC	-	-	240	20	ES	-	-	-
⊕	MOTOR STARTER PROV. BY MC, INSTALLED BY EC.	GC	GC	-	-	240	20	ES	-	-	-
⊕	SAFETY DISCONNECT PROV. AND INSTALLED BY EC.	GC	GC	-	-	240	20	ES	-	-	-
⊕	PANEL	GC	GC	-	-	240	20	ES	-	-	-
⊕	BRANCH CIRCUIT	GC	GC	-	-	240	20	ES	-	-	-
⊕	JUNCTION BOX	GC	GC	-	-	240	20	ES	-	-	-
⊕	DUPLEX RECEPTACLE	GC	GC	-	-	240	20	ES	-	-	-

**SPECIAL PURPOSE OUTLET SCHEDULE**

KEY	DESCRIPTION	SUPPLIED BY	INSTALLED BY	COND. & CAP. MARK #	ELECTRICAL REQUIREMENTS	VOLTS	AMPS	STARTER PROVIDED BY	INSTALLED BY	ELECTRICAL DISCONNECT PROVIDED BY	REMARKS
⊕	BI-FOLD DOOR	GC	GC	-	-	240	20	ES	-	-	-
⊕	WELDING OUTLET	GC	GC	-	-	240	50	ES	-	-	-
⊕	AIR CONDITIONER	ES	ES	6-20R	EC	240	20	-	-	-	COORD. LOCATION