

## GENERAL NOTES

1. USE ONLY THE LATEST ISSUES OF ANY GOVERNMENT CODES, STANDARDS OR REGULATIONS MENTIONED IN THE FOLLOWING NOTES.
2. STRUCTURAL ELEMENTS MUST BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF ONTARIO REGULATION 403/97 ALL CONSTRUCTION SHALL COMPLY WITH THAT SAME CODE.
3. VERIFY EQUIPMENT LOCATIONS AND OPENING SIZES, WHERE REQUIRED, WITH THE MECHANICAL CONTRACTOR.  
PROVIDE INFORMATION ON SIZE, LOCATION AND OPERATING WEIGHT OF ANY SUSPENDED OR ROOF-TOP MECHANICAL UNITS TO THE JOIST DESIGNER.
4. THE CONTRACTOR HAS THE RESPONSIBILITY TO VERIFY ALL DETAILS AND DIMENSIONS AFFECTING THE WORK.  
REPORT ANY DISCREPANCIES TO THE DESIGNER BEFORE PROCEEDING WITH THE WORK.
5. MAKE ADEQUATE PROVISION FOR CONSTRUCTION STRESSES AND FOR SUFFICIENT TEMPORARY BRACING AND SHORING TO KEEP THE STRUCTURE PLUMB AND LEVEL DURING ALL PHASES OF THE WORK.

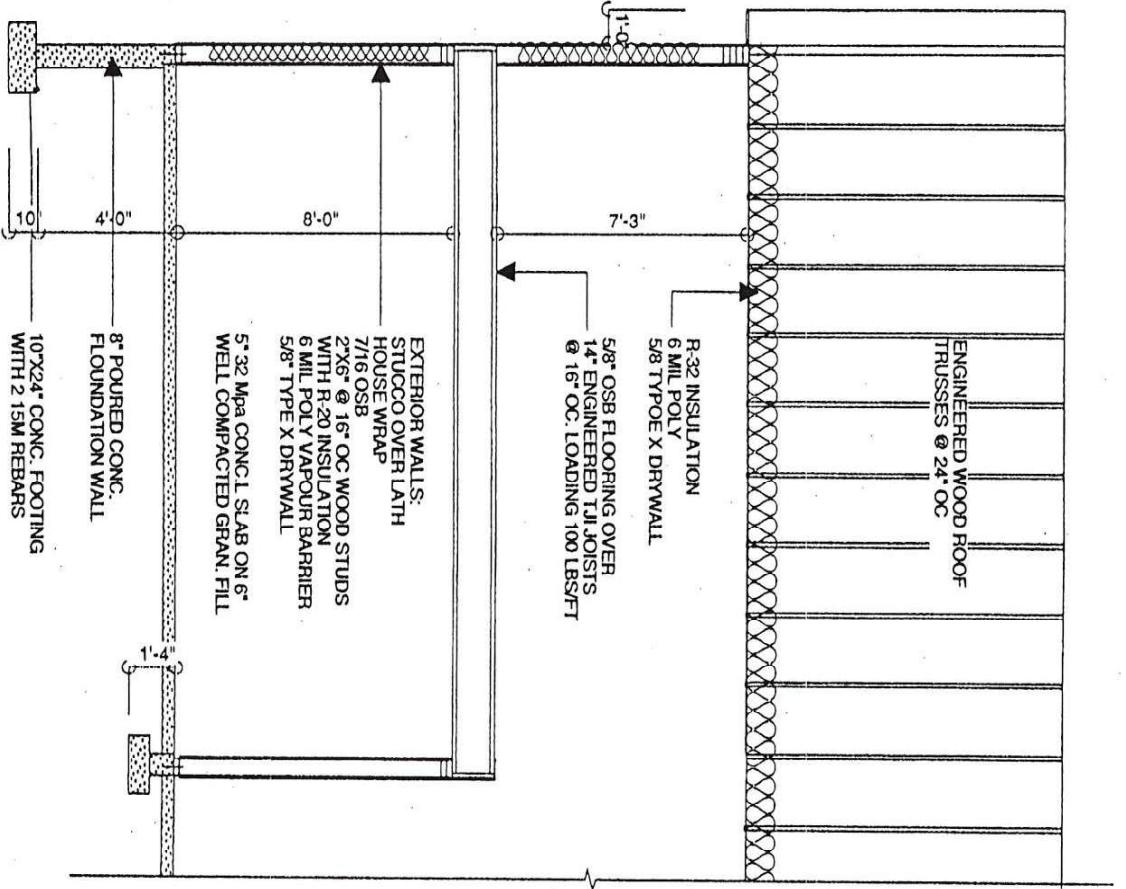
## CONCRETE

1. CONFORM TO THE REQUIREMENTS OF CSA STANDARD CAN3-A-23-M94.1 FOR ALL SUPPLY, PLACING, CURING, FORMING AND TEMPERATURE PROTECTION OF CONCRETE WORK.
2. ALL CONCRETE IS TO BE NORMAL DENSITY WITH A MAXIMUM SLUMP OF 100mm. PORTLAND CEMENT IS TO BE TYPE 10. EXTERIOR CONCRETE AND SLAB ON GRADE ARE TO BE CLASS A.
3. ALL CONCRETE, EXCEPT SLAB ON GRADE AND EXTERIOR CONCRETE, IS TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF NOT LESS THAN 25 MPa. SLAB ON GRADE AND EXTERIOR CONCRETE ARE TO HAVE A MINIMUM 28 COMPRESSIVE STRENGTH OF NOT LESS THAN 30 MPa.  
  
REINFORCING STEEL SHALL BE DEFORMED BAR CONFORMING TO CSA STANDARD G30.18-M92, GRADE 400. DETAIL AND BEND REINFORCING IN ACCORDANCE WITH THE REINFORCING STEEL MANUAL OF STANDARD PRACTICE, PUBLISHED BY THE REINFORCING STEEL INSTITUTE OF ONTARIO.
5. WELDED WIRE FABRIC SHALL HAVE A MINIMUM YIELD STRENGTH OF 450 MPa AND SHALL CONFORM TO CSA STANDARD G30.5-M1983. ALL LAPS ARE TO BE AT LEAST ONE WIRE SPACING PLUS 50mm.
6. ALL CONCRETE WHICH WILL BE SUBJECT TO FREEZING AND THAWING OR SUBJECTED TO APPLICATIONS OF DE-ICING CHEMICALS IS TO CONTAIN ENTRAINED AIR CONFORMING TO CSA STANDARD A23.1 (5%-7%)
7. PROVIDE THE FOLLOWING CLEAR CONCRETE COVER FOR REINFORCING STEEL:  

CONCRETE CAST AGAINST EARTH	- 75mm
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER	- 50 mm
FORMED SLABS NOT EXPOSED TO EARTH OR WEATHER	- 20 mm
TOP OF SLAB ON GRADE TO WELDED WIRE FABRIC	- 40 mm
8. GROUT TO BE NON-SHRINK TYPE SUCH AS 'IN-PAKT'.
9. PROVIDE 10mm THICK ASPHALT IMPREGNATED FIBREBOARD WHERE SLAB ON GRADE MEETS ALL WALLS AND PIERS EXCEPT WHERE NOTED.
10. ALL SLABS ON GRADE ARE TO HAVE A NON-METALLIC SHAKE HARDENER SUCH AS STERNSON DIAMAG7 APPLIED AT THE RATE OF 6 Kg / m<sup>2</sup>. ( 1.26 POUNDS PER 100 SQUARE FEET)
11. SAWCUT SLAB ON GRADE WITHIN 48 HOURS OF THE SLAB POUR WHEN THE SAWCUTTING CAN BE DONE WITHOUT RAVELLING THE EDGES. FILL SAWCUTS WITH JOINT SEALER CONFORMING TO CGSB CAN2-19, 24M80
12. PROVIDE ONE 10M NOSING BAR FOR ALL SILLS, LEDGES AND STEPS.
13. ALL EXPOSED CONCRETE EDGES TO HAVE A 20mmx20mm CHAMFER.

## FOUNDATIONS

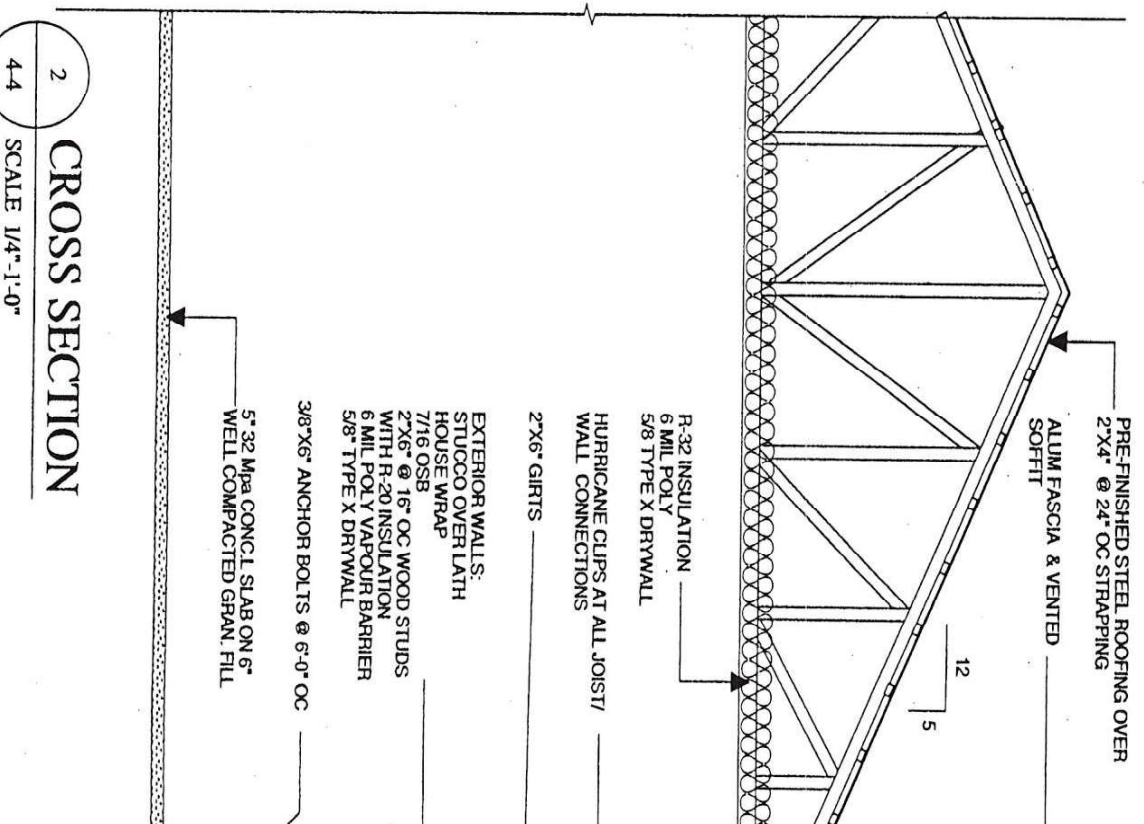
1. FOUNDATIONS HAVE BEEN DESIGNED FOR AN ASSUMED ALLOWABLE SOIL BEARING PRESSURE OF 3000 POUNDS PER SQUARE FOOT (150kPa).
2. ANY SOFT SPOT ENCOUNTERED IN THE BEARING AREA OF THE FOUNDATION EXCAVATION SHALL BE REMOVED AND FILLED TO THE UNDERSIDE OF THE FOUNDATION USING CONCRETE OF MINIMUM 10 MPa 28 DAY COMPRESSIVE STRENGTH.
3. ALL FOUNDATIONS EXPOSED TO FREEZING SHALL BE PLACED AT LEAST 1200mm BELOW NEW FINISHED GRADE.
4. ALL FOUNDATIONS SHALL :
  - BE PLACED ON UNFROZEN GROUND ONLY
  - BE PLACED BELOW ALL TOPSOIL AND FILL, ON UNDISTURBED NATIVE SOIL.
  - BE PROTECTED BY AT LEAST 1200mm OF EARTH OR MATERIALS OF EQUIVALENT INSULATING VALUE WHEN EXPOSED TO FROST ACTION DURING CONSTRUCTION.
5. WHEN BACKFILL IS REQUIRED ON BOTH SIDES OF WALL, THE BACKFILL LEVEL SHALL BE RAISED SIMULTANEOUSLY ON BOTH SIDES WITH THE DIFFERENCE IN ELEVATION BETWEEN THE TWO SIDES NOT TO EXCEED 500 mm.
6. IN AREAS WHERE SLAB ON GRADE IS TO BE CONSTRUCTED, STRIP ALL TOPSOIL, FILL AND OBVIOUS DELETERIOUS MATERIALS. ROUGH GRADE AND PROOF ROLL THE SURFACE WITH A HEAVY ROLLER PRIOR TO PLACING BACKFILL. NEW BACKFILL REQUIRED UNDER SLAB ON GRADE GRANULAR 'A' SUB-BASE IS TO BE GRANULAR 'B' COMPACTED IN 150mm LIFTS TO 98% PROCTOR DENSITY. THE BACKFILL DIRECTLY BELOW THE SLAB ON GRADE IS TO BE 150 mm OF GRANULAR 'A' COMPACTED TO 100% STANDARD PROCTOR DENSITY.



**1 CROSS SECTION**

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

Note:  
 Faxed copies must be  
 enlarged 121% to  
 attain designated scale

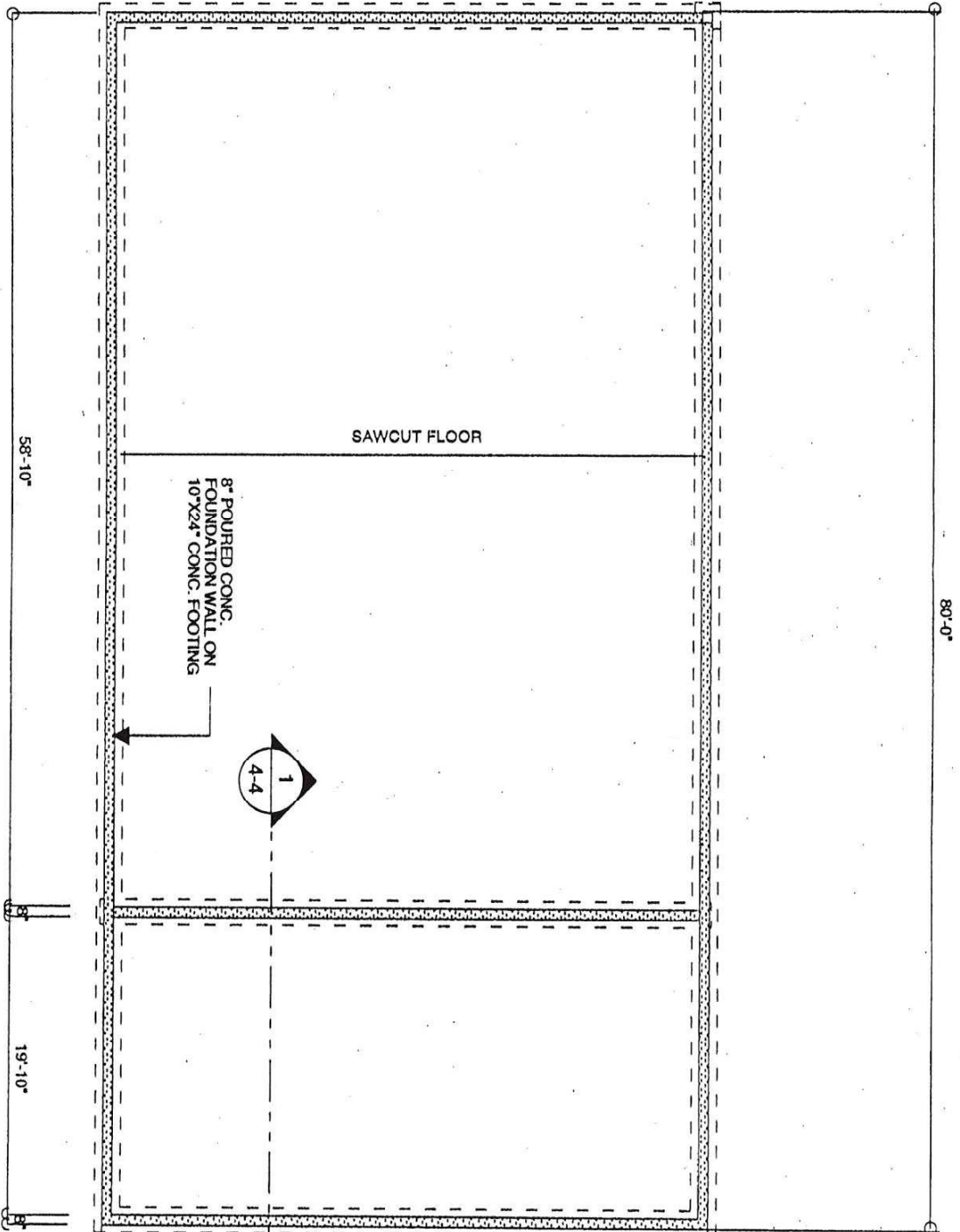


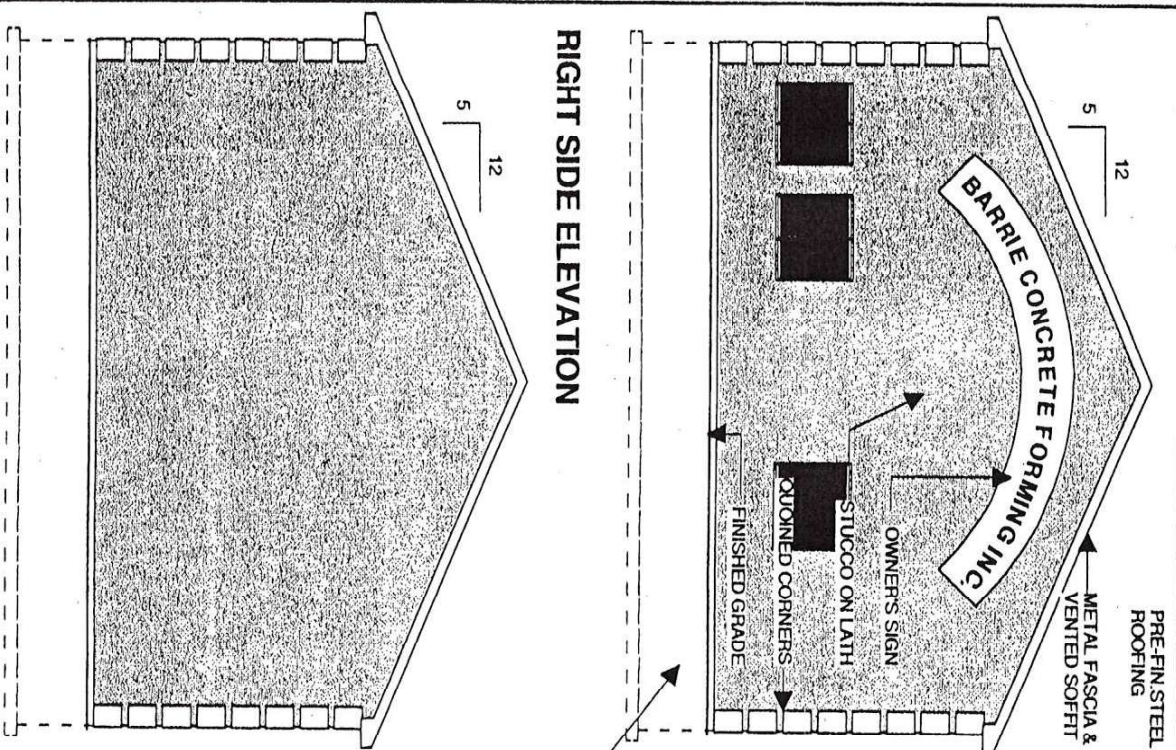
**2 CROSS SECTION**

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

Date:	10/31/05	S&M No.	4 OF 4	S&M Name:	FLOOR PLAN- MATERIAL STORA
Scale:	1/4" = 1'-0"	Project No.	1/8 - 136 B	Project:	NEW INDUSTRIAL BUILDING FOR
Drawn by:	G. LUCAS				<b>BARRIE CONCRETE FORMING</b>

Note:  
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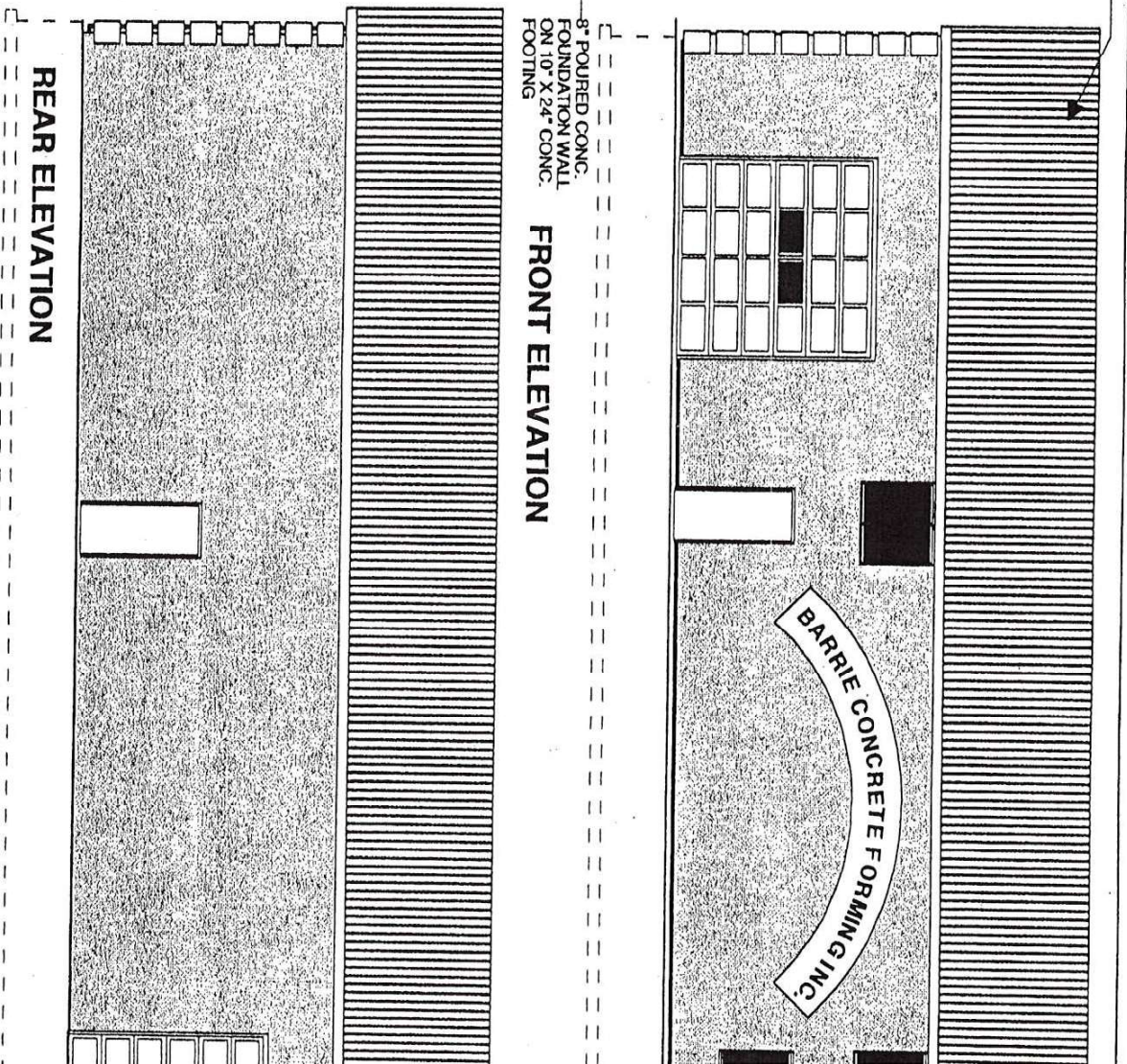




**RIGHT SIDE ELEVATION**

**LEFT SIDE ELEVATION**

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**FRONT ELEVATION**

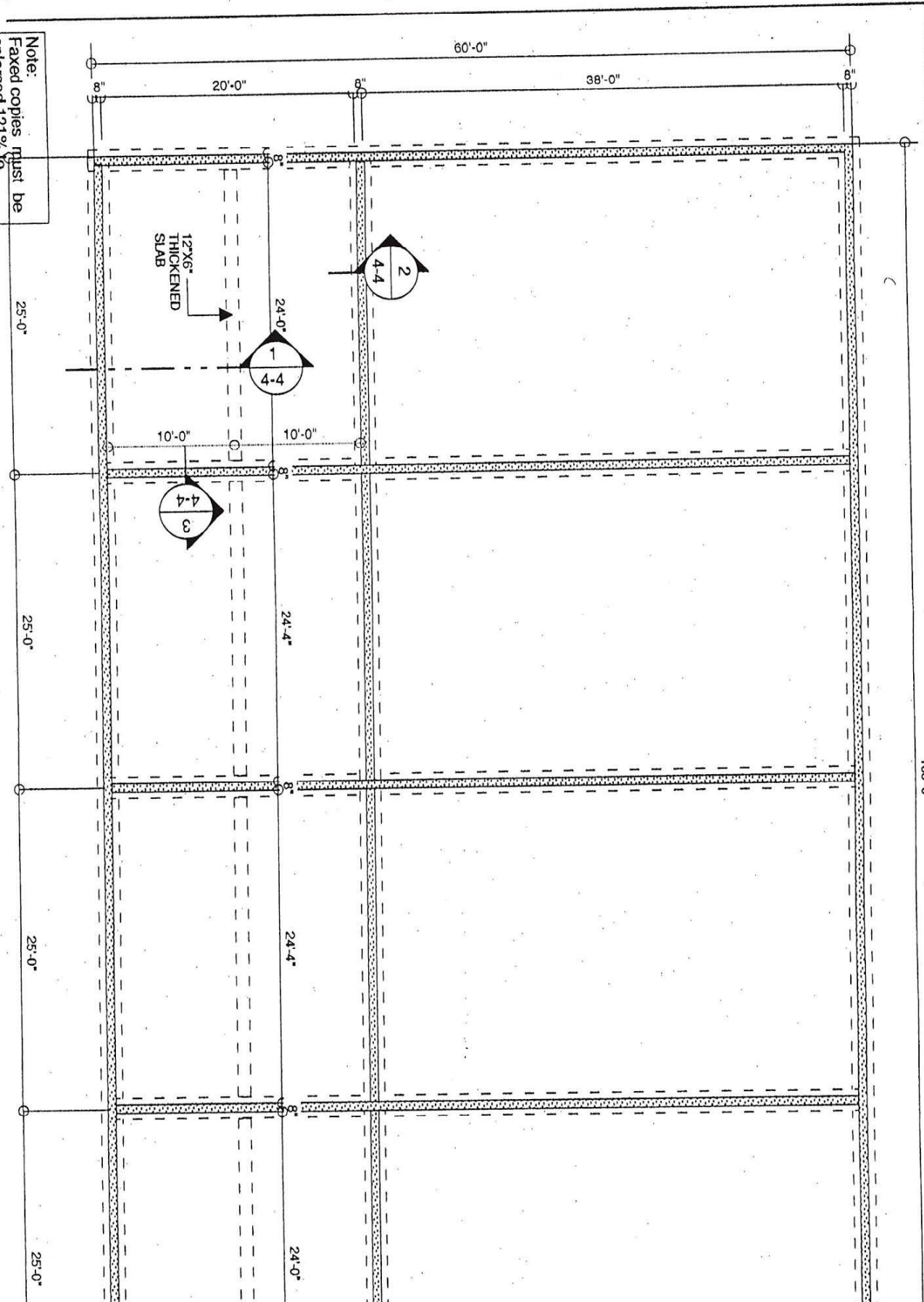
**REAR ELEVATION**

8" POURED CONC.  
 FOUNDATION WALL  
 ON 10" X 24" CONC.  
 FOOTING

Date:	10/31/05	Sheet:	3 OF 4
Scale:	1/8" = 1'-0"	Project:	FLOOR PLAN - MATERIAL STORAGE
Drawn by:	G. LUCAS	Project:	NEW INDUSTRIAL BUILDING FOR BARRIE CONCRETE FORMING INC. BARRIE ONTARIO



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in designated scale



100'-0"

60'-0"

20'-0"

38'-0"

25'-0"

25'-0"

25'-0"

25'-0"

24'-0"

24'-4"

24'-4"

24'-0"

12'x6'  
THICKENED  
SLAB

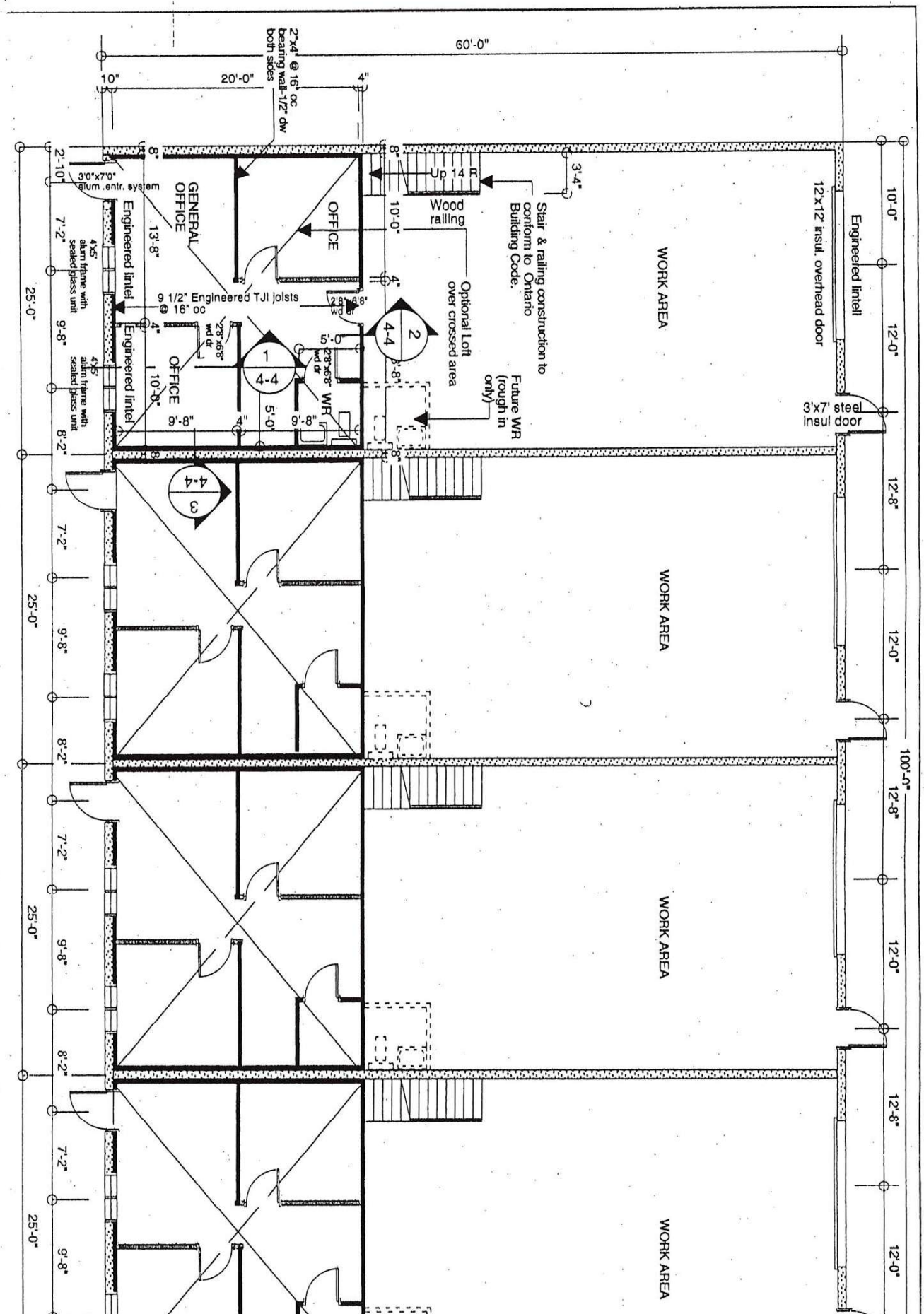
1  
4-4

2  
4-4

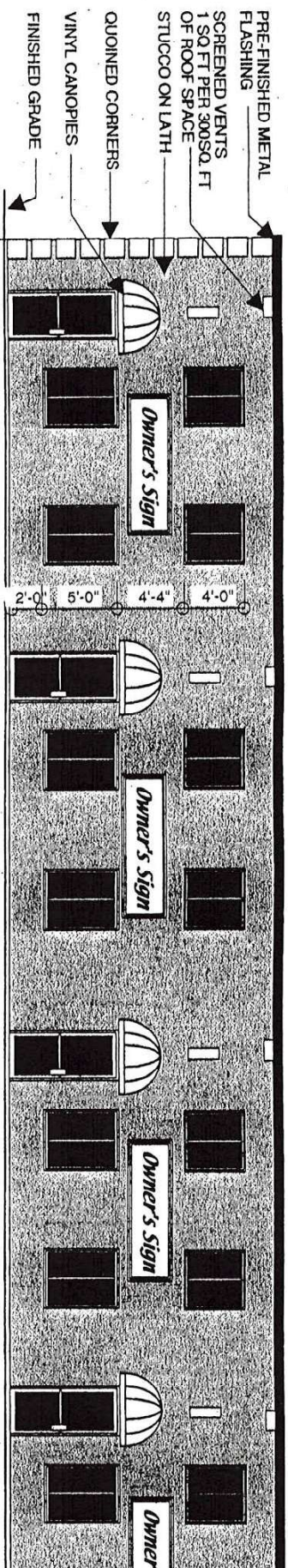
3  
4-4

10'-0"

10'-0"

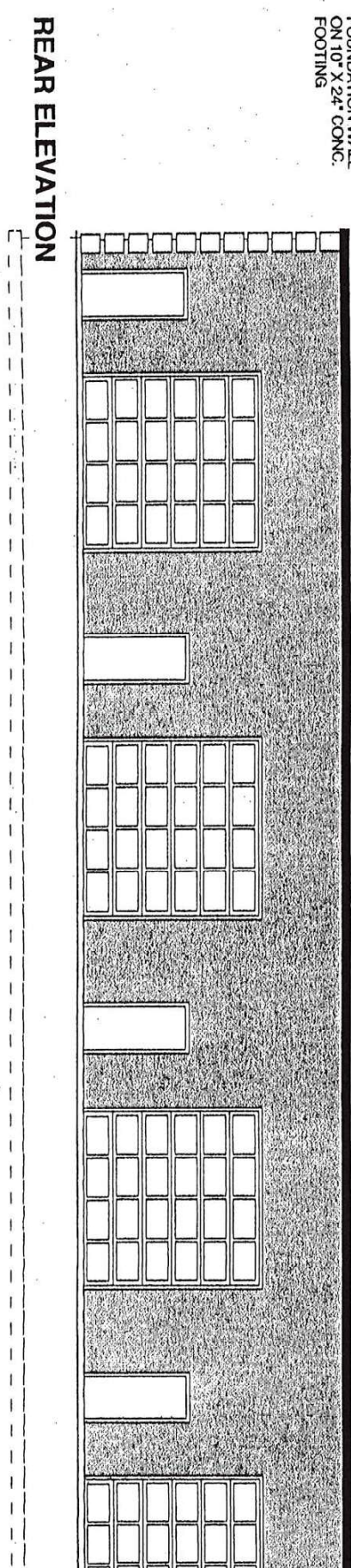


North arrow pointing upwards.

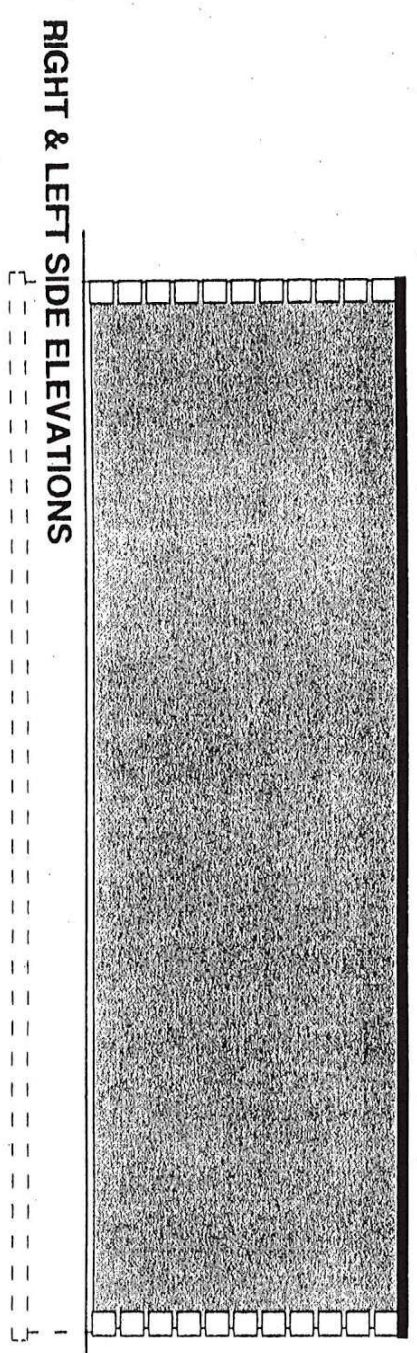


**FRONT ELEVATION**

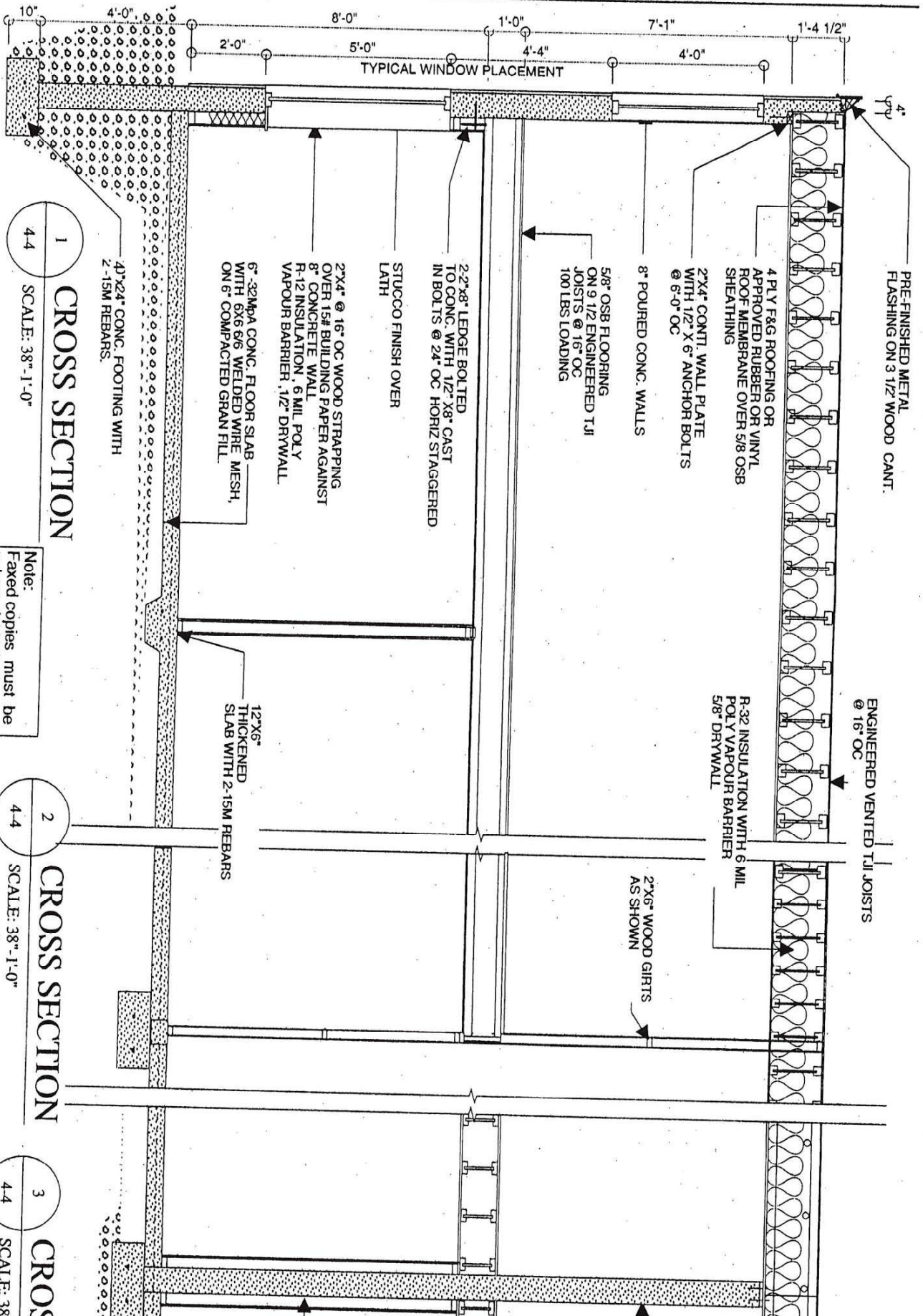
8" POURED CONC.  
FOUNDATION WALL  
ON 10" X 24" CONC.  
FOOTING



**REAR ELEVATION**



**RIGHT & LEFT SIDE ELEVATIONS**



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