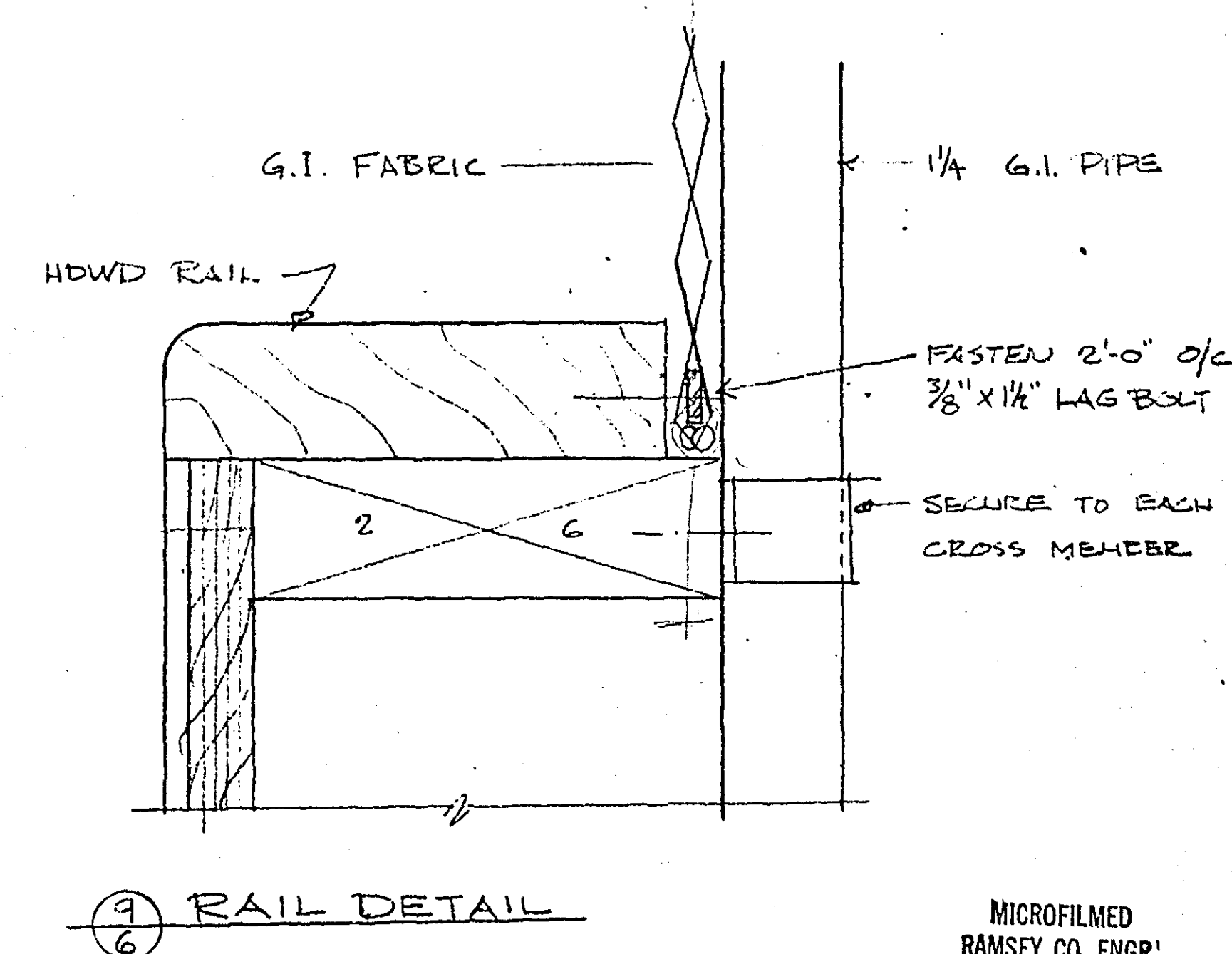
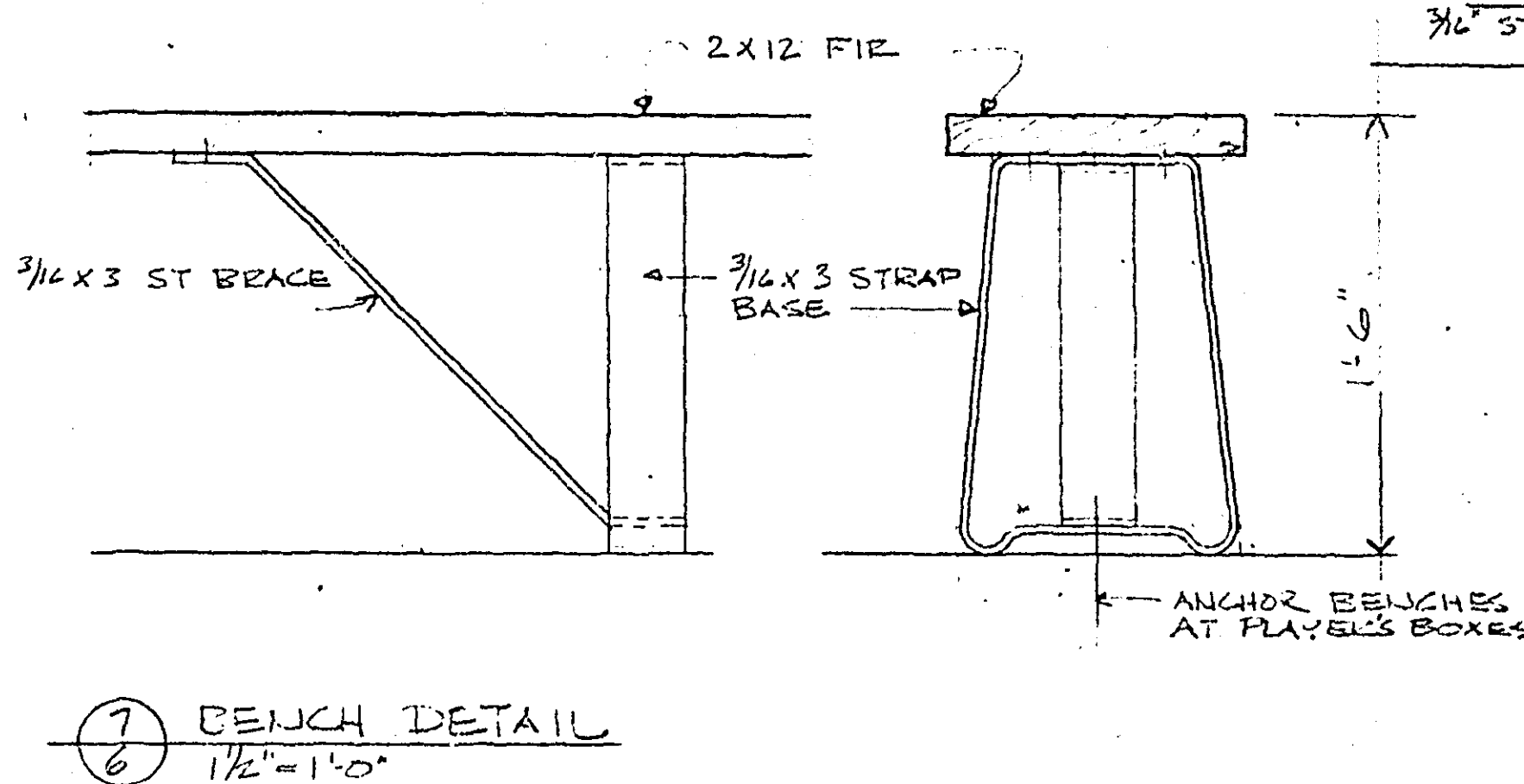
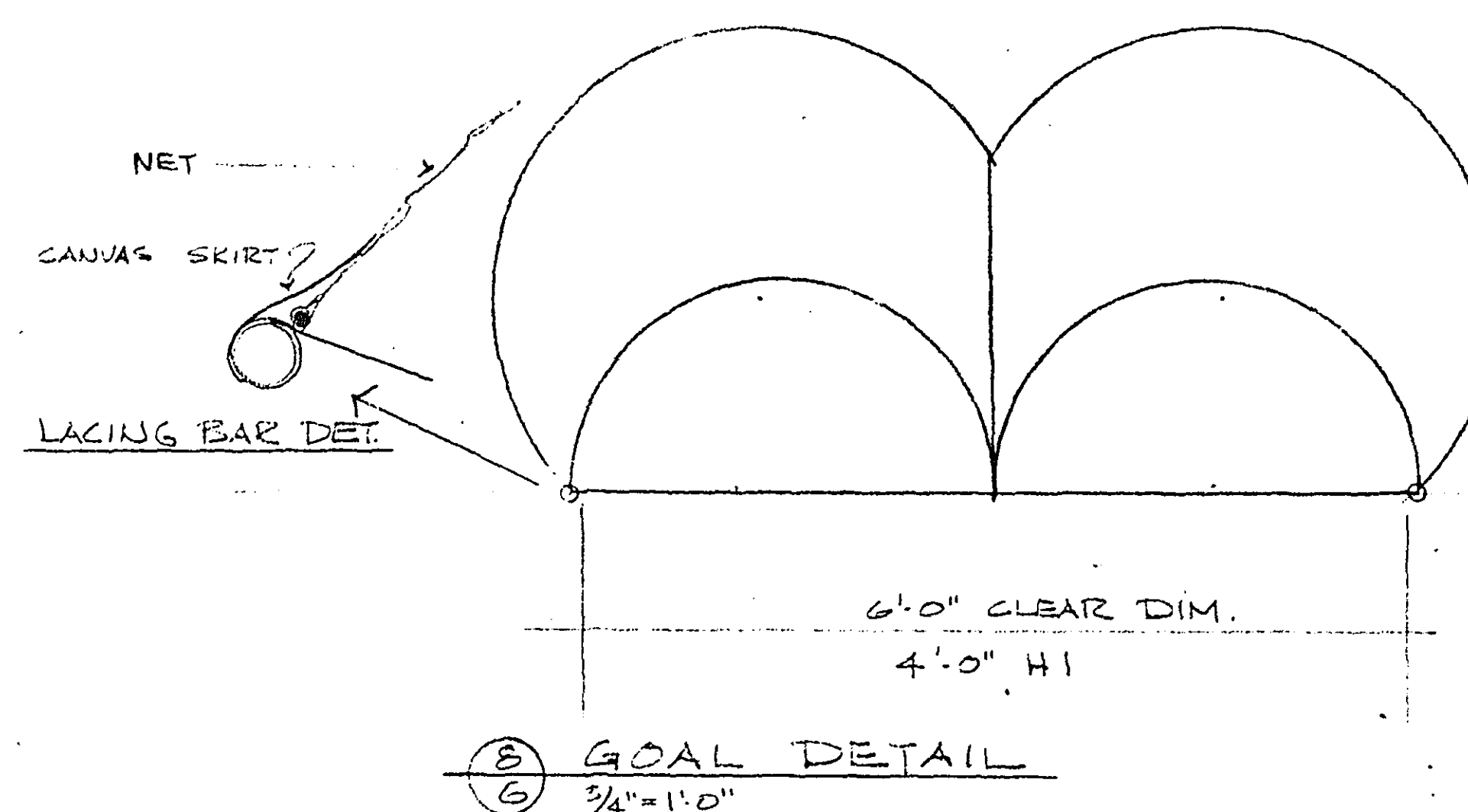
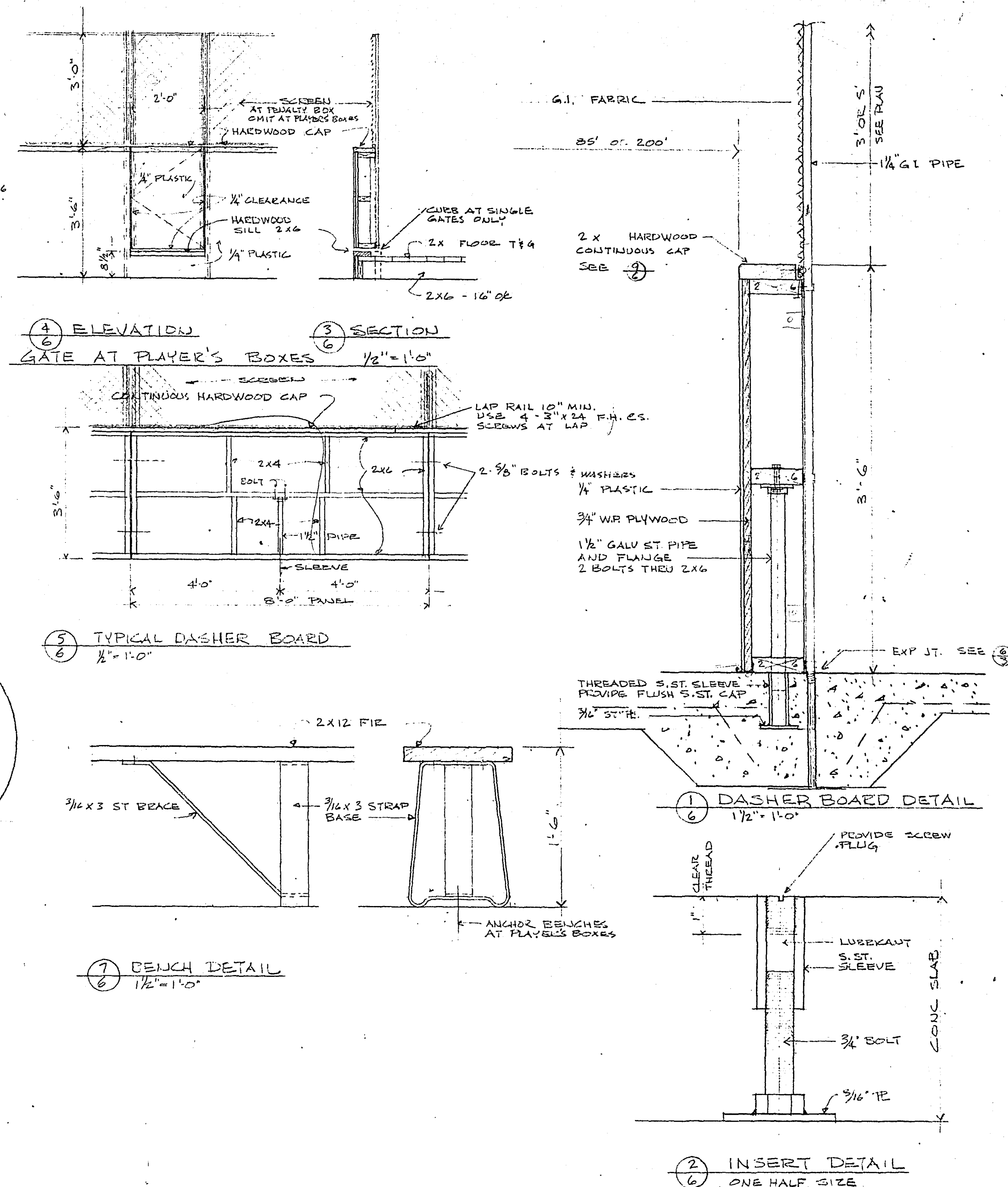
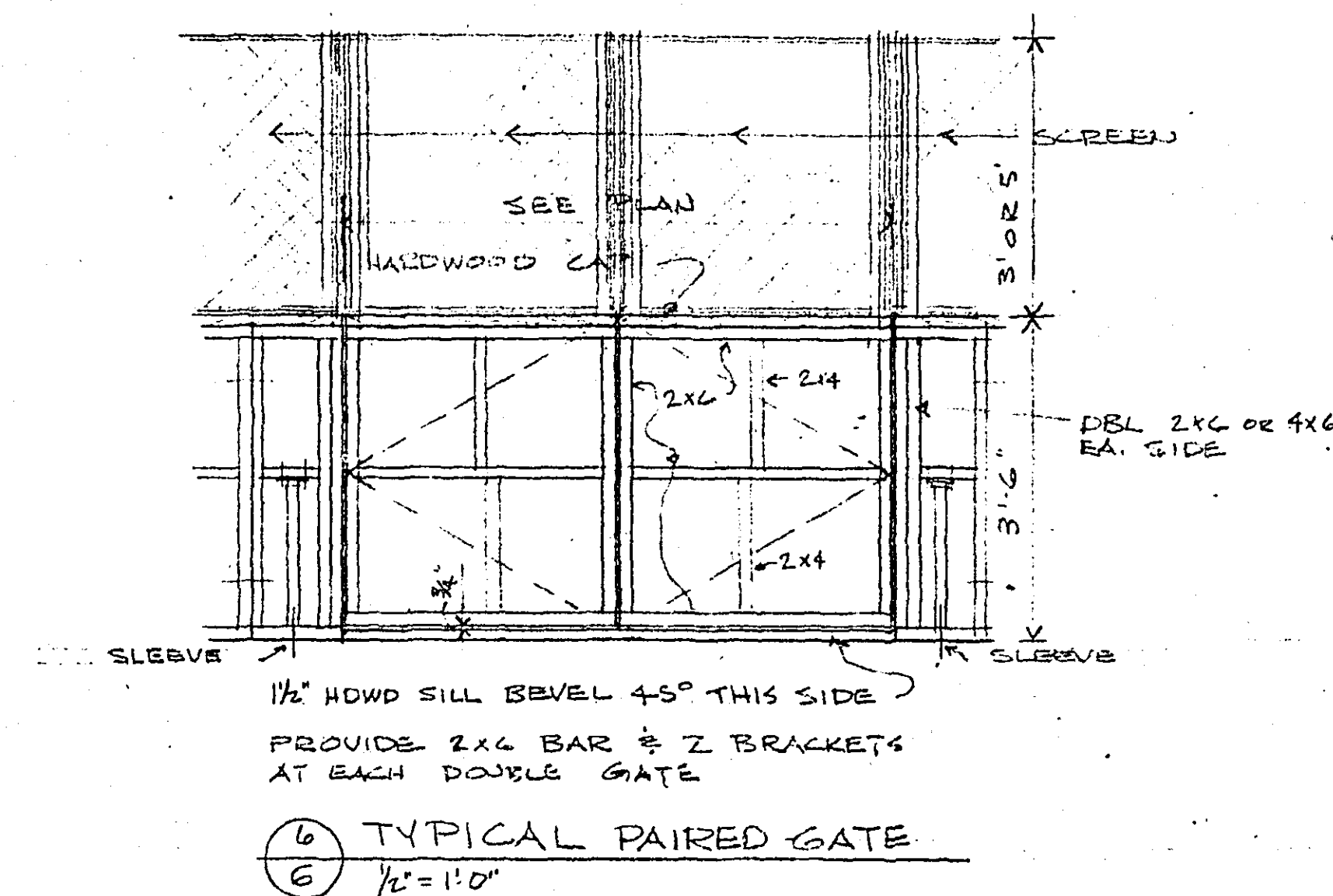
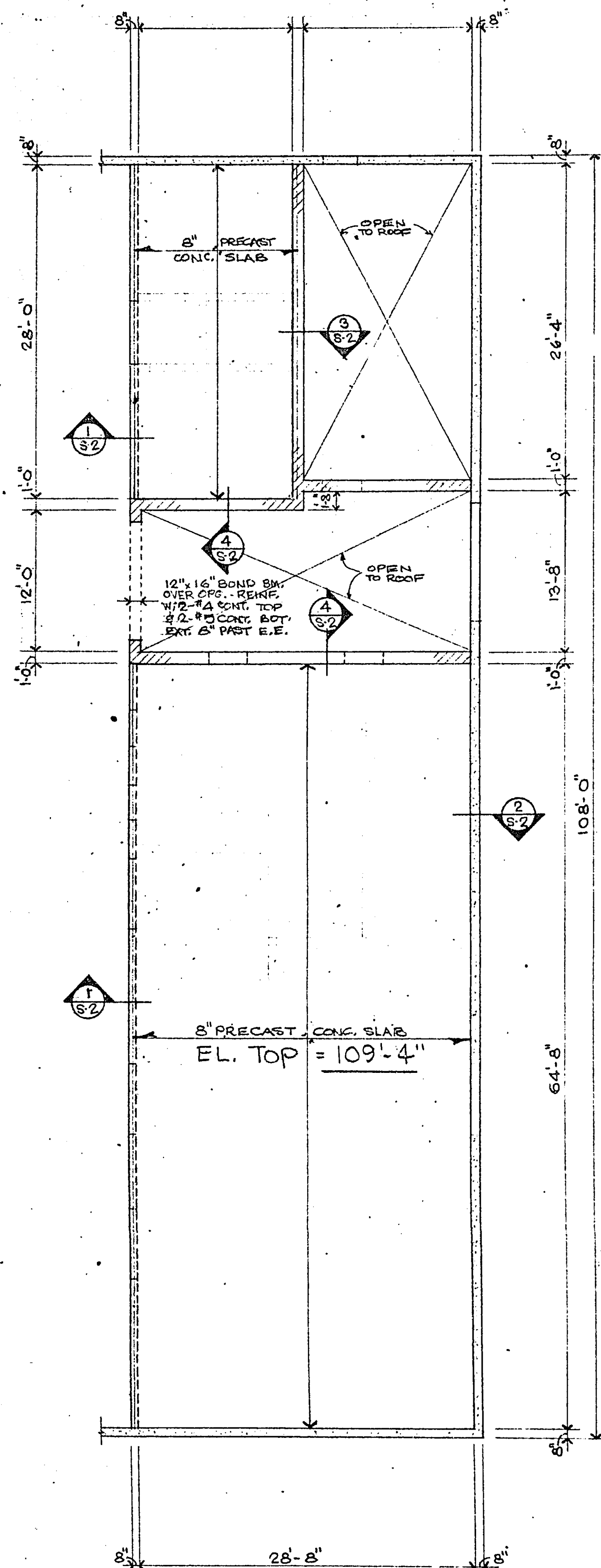




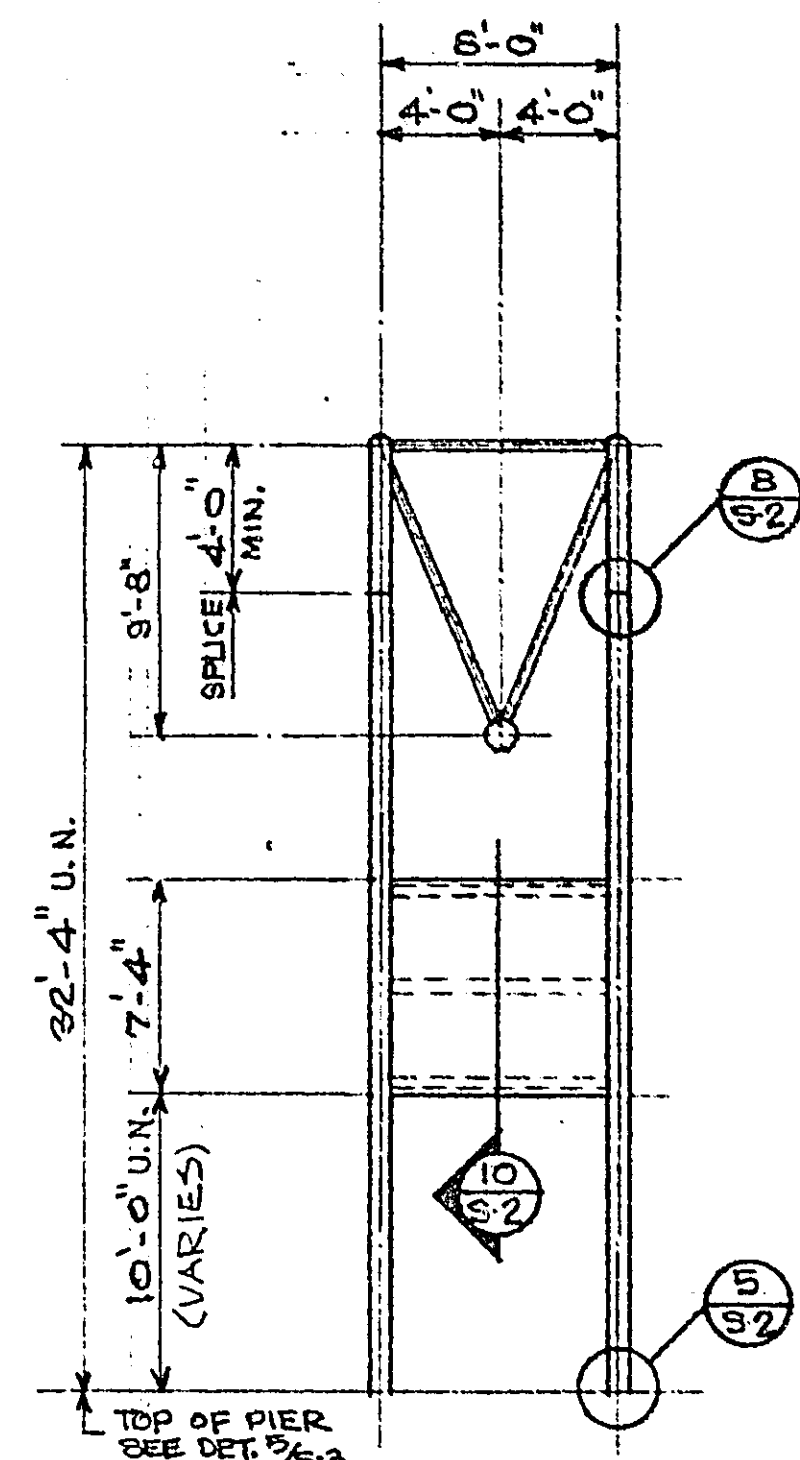
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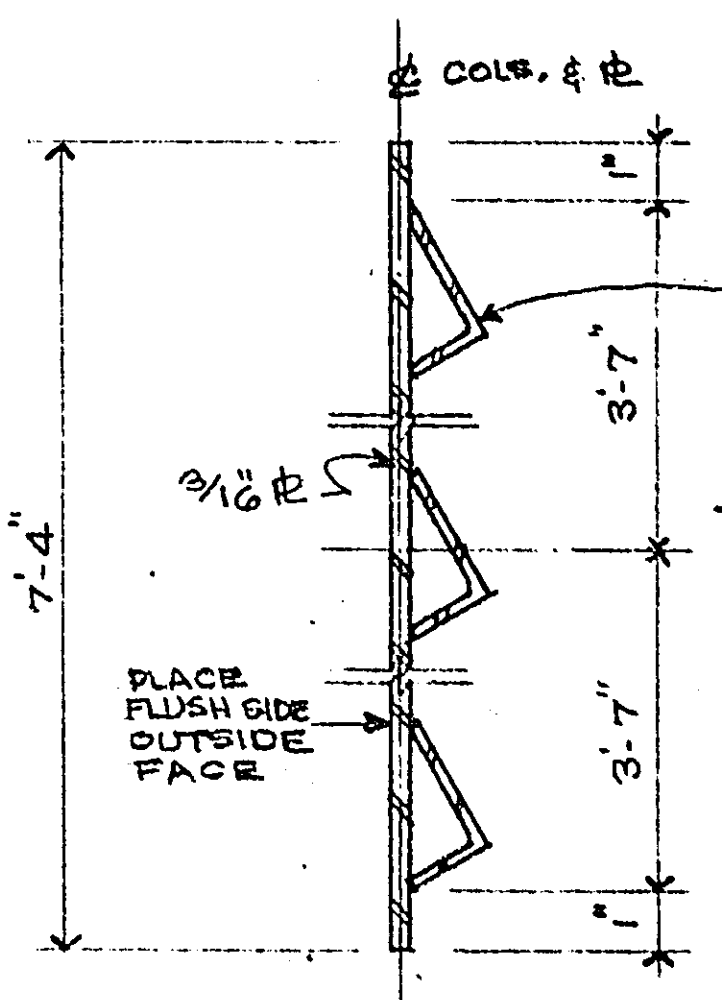
DASHER BOARD & BENCH DETAILS



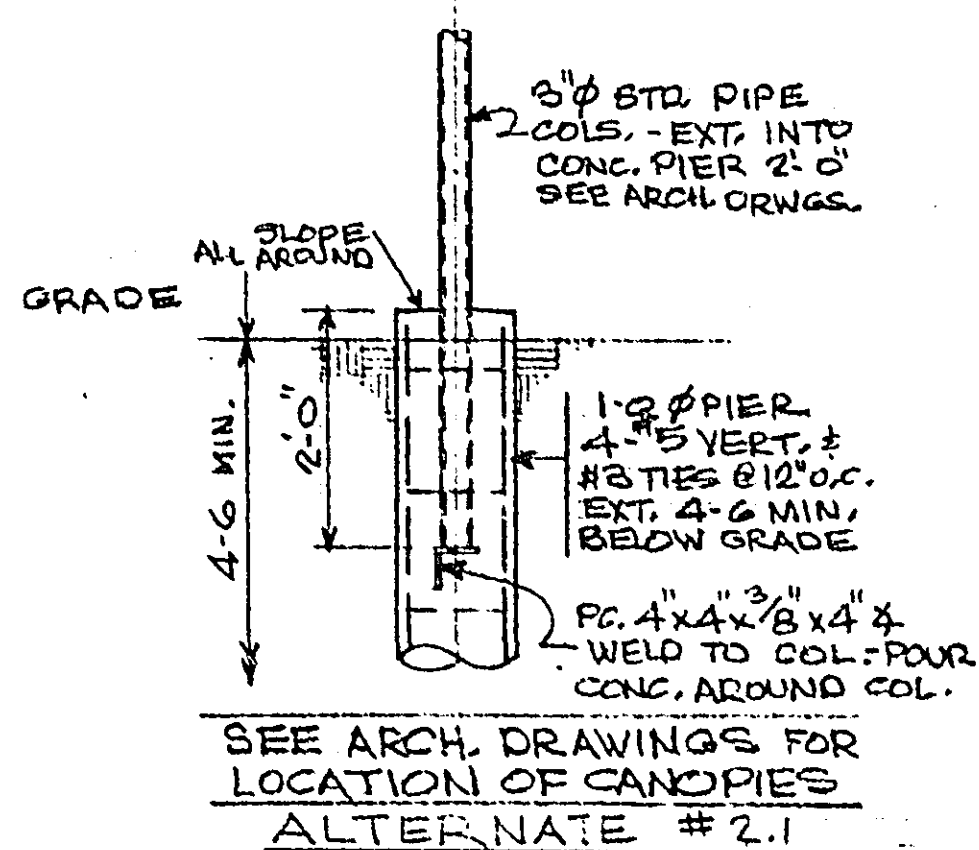
MEZZANINE FLOOR FRAMING PLAN 1/2"=1'-0"
UNLESS OTHERWISE NOTED:
OPENINGS IN BLOCK WALLS SHALL HAVE 8" MIN DEEP BLOCK LINTELS REINFORCED W/ 2-#5 BOT.



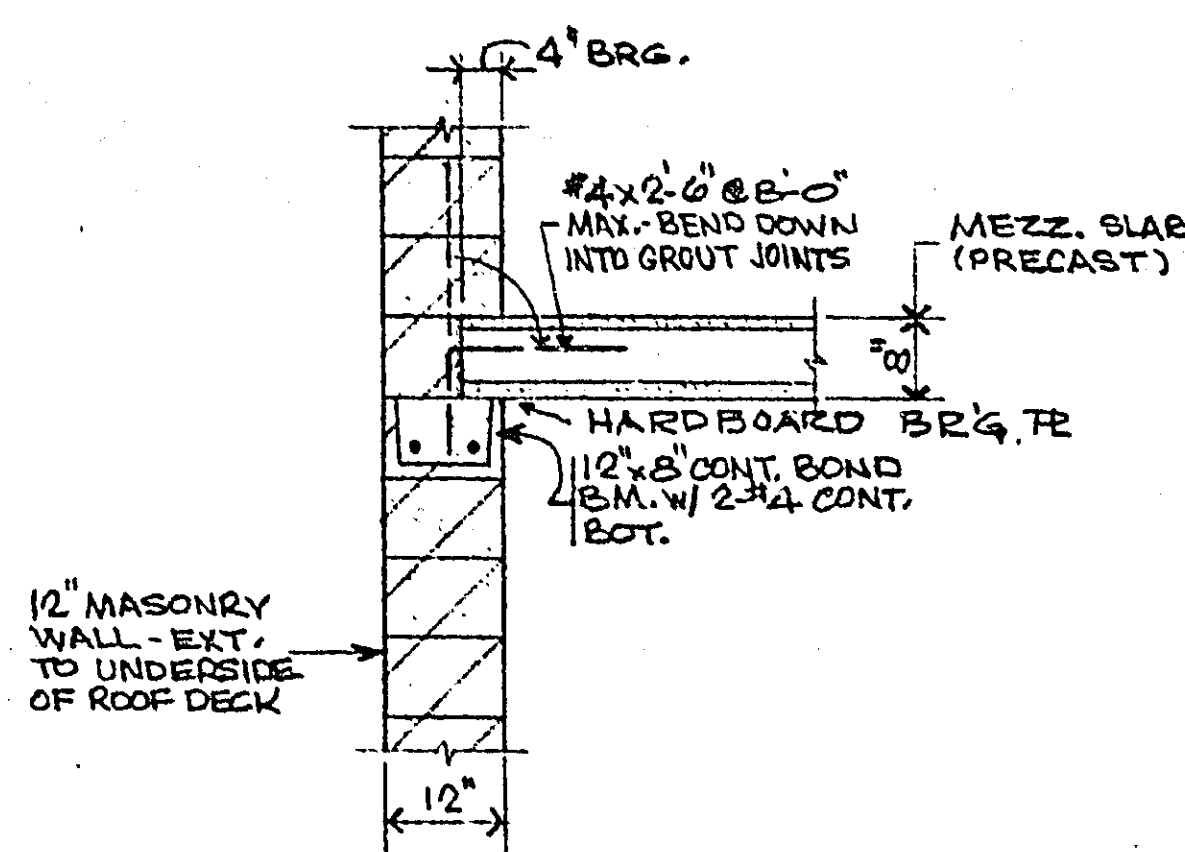
TRUSS END ELEVATION B 1/2"=1'-0"



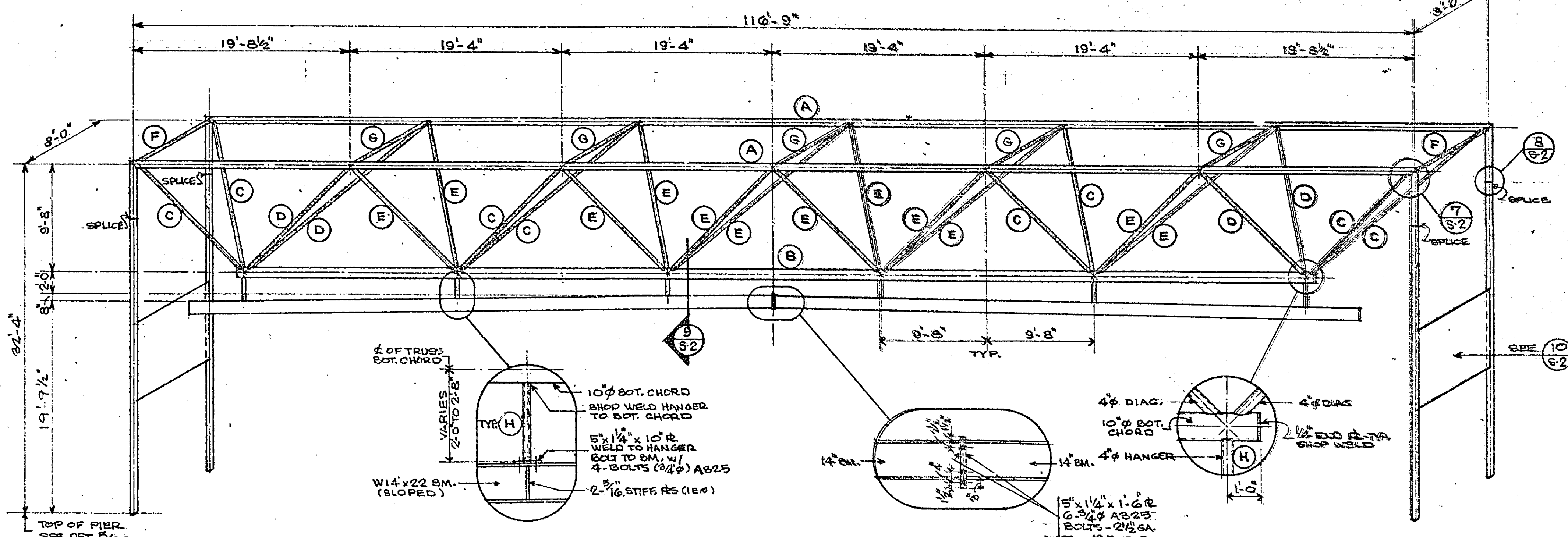
SECTION 10 1/2"=1'-0"



DETAIL 6 1/2"=1'-0"

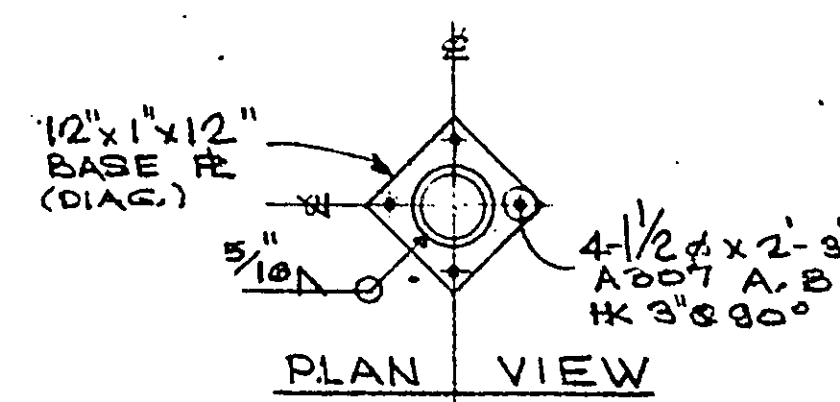


SECTION 3 1/2"=1'-0"

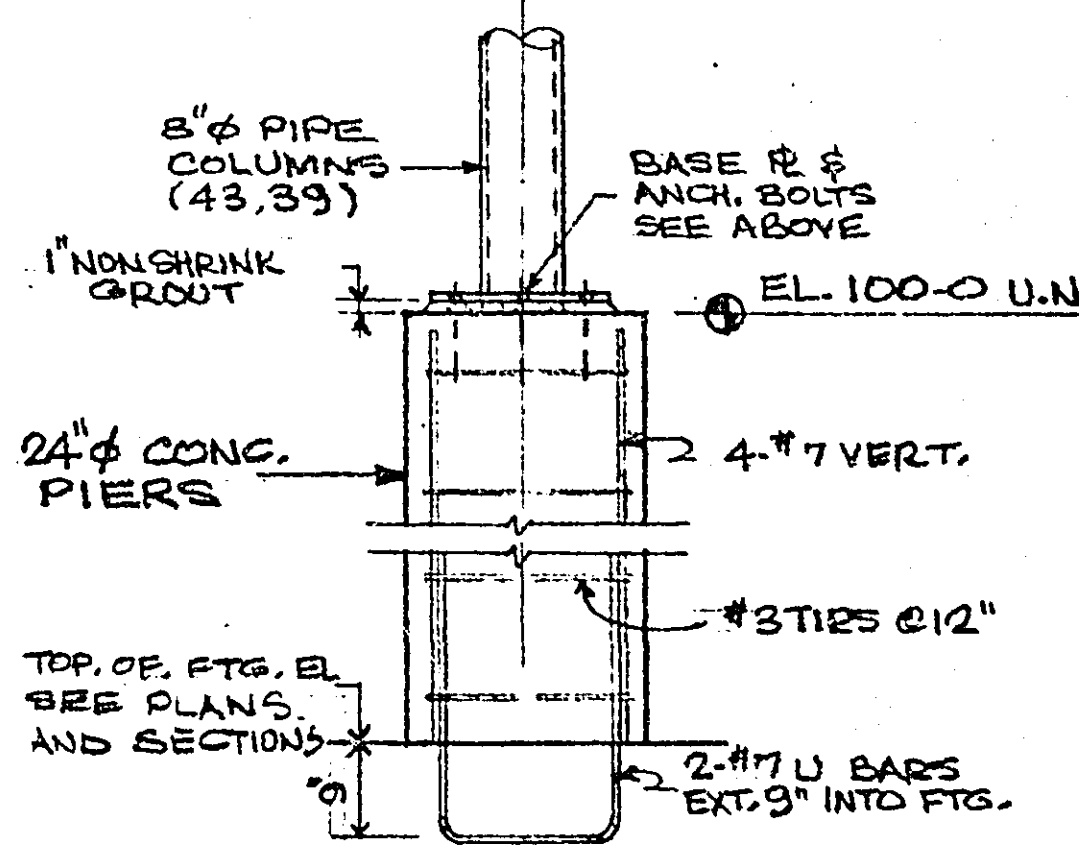


TRUSS ELEVATION A 1/2"=1'-0"
CAMBER TRUSS 2 1/2" C CENTER

MEMBER	MEMBER SIZE & LOCATION
(A)	8" ϕ x 43.39 (TOP CHORD)
(B)	10" ϕ x 54.74 (BOT. CHORD)
(C)	4" ϕ x 14.98 (DIAG.)
(D)	4" ϕ x 27.54-A36 (DIAG.)
(E)	4" ϕ x 10.79 (DIAG.)
(F)	4" ϕ x 14.98 (CROSS)
(G)	4" ϕ x 10.79 (CROSS)
(H)	4" ϕ x 10.79 (HANGER)

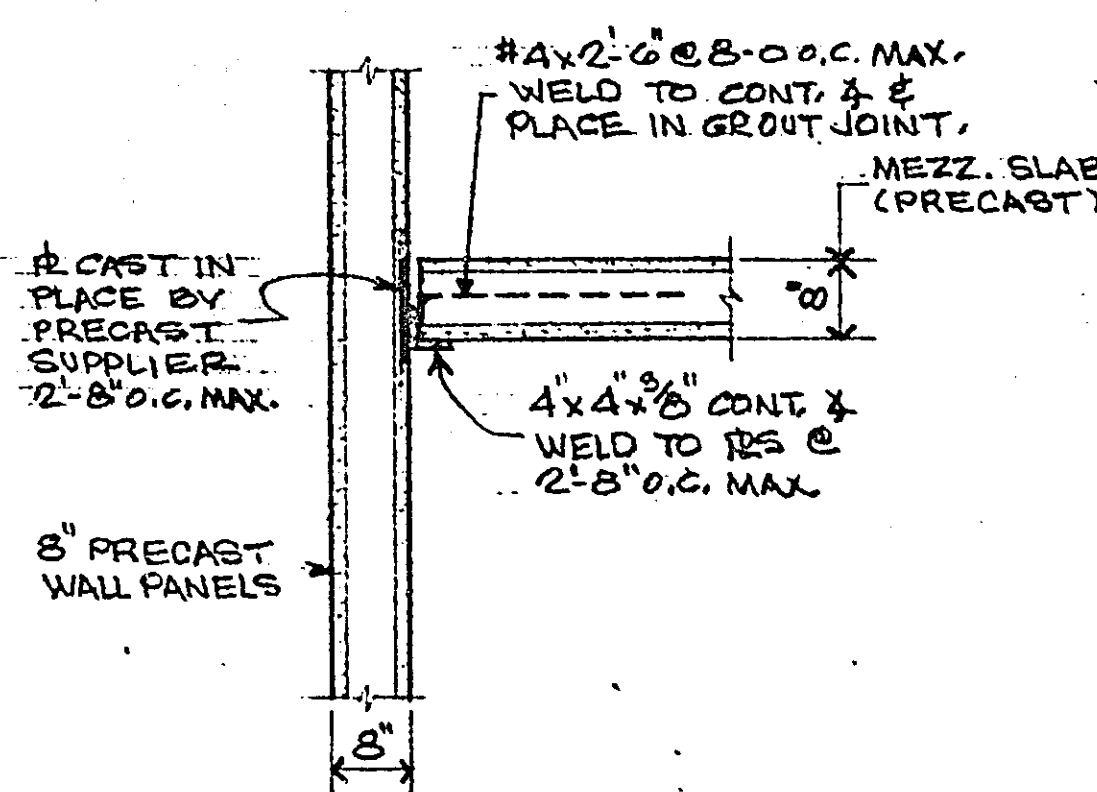


PLAN VIEW 1/2"=1'-0"

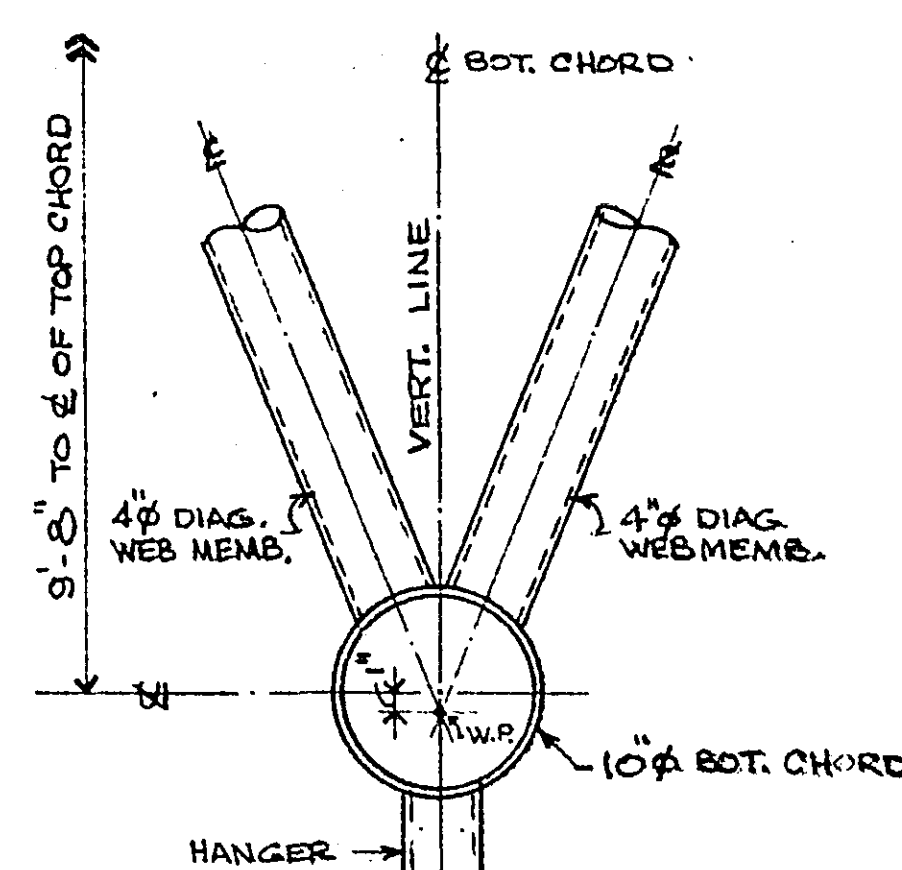


DETAIL 5 1/2"=1'-0"

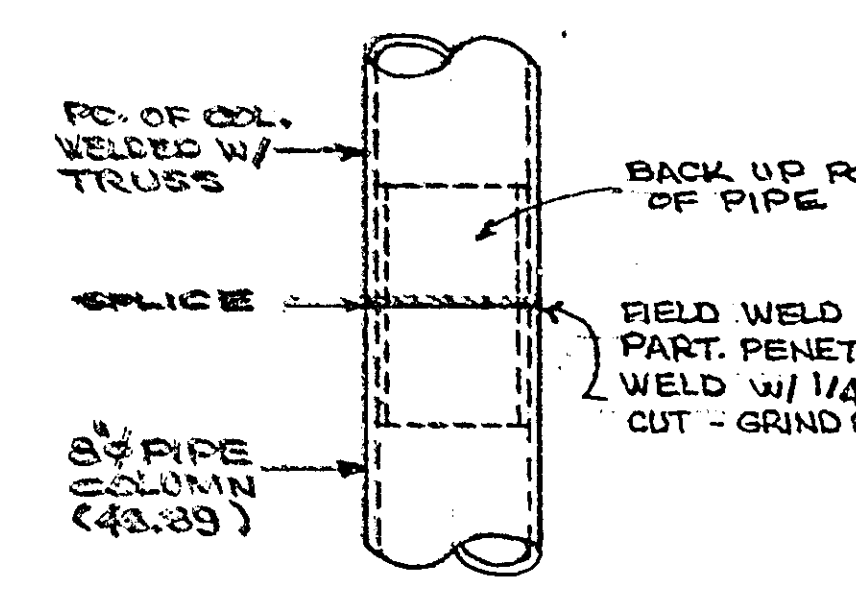
SEE 9-1/43A AND ARCH. DRAWINGS FOR VARIATION IN TOP OF PIERS AND R ELEVATIONS.



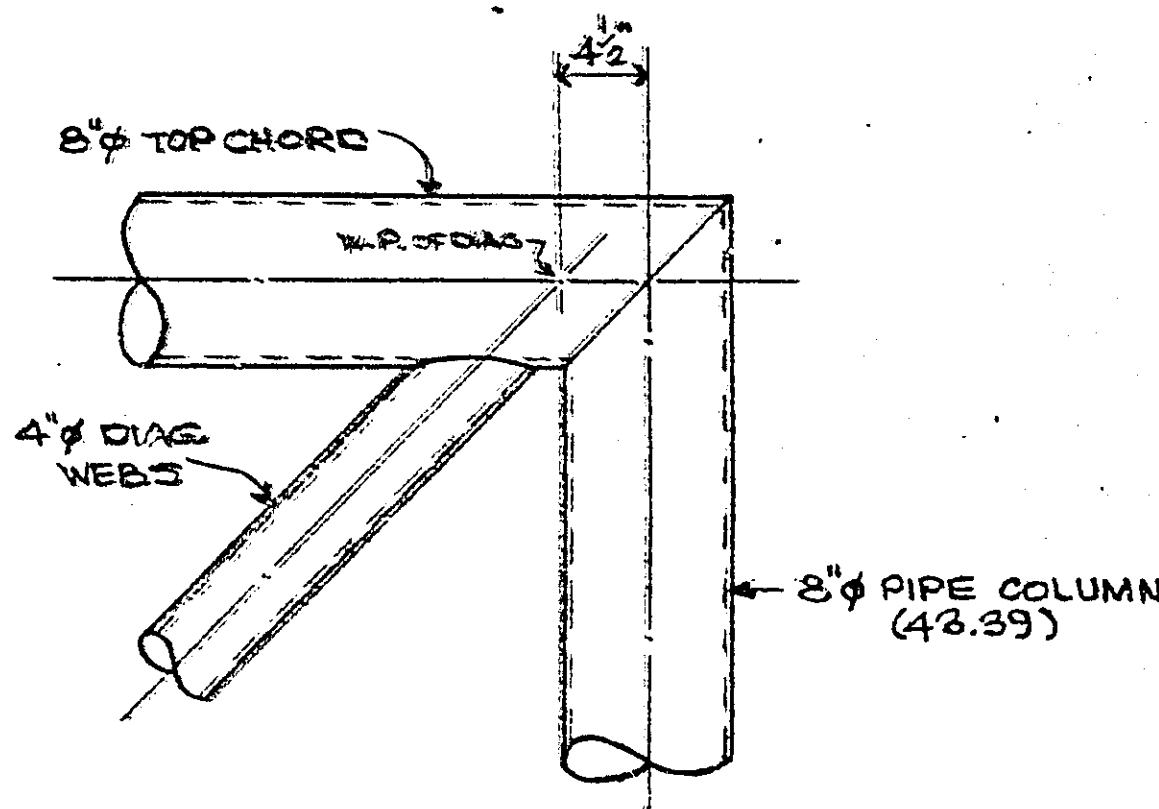
SECTION 2 1/2"=1'-0"



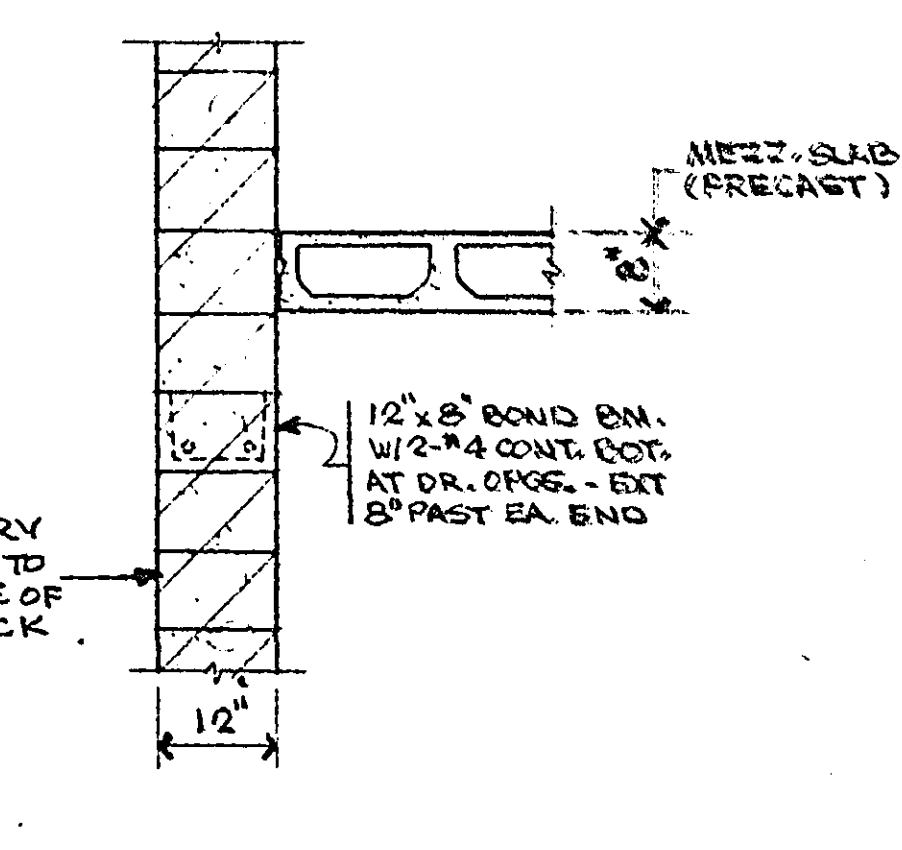
DETAIL 9 1/2"=1'-0"
TYP. BOT. CHORD AT DIAGS.



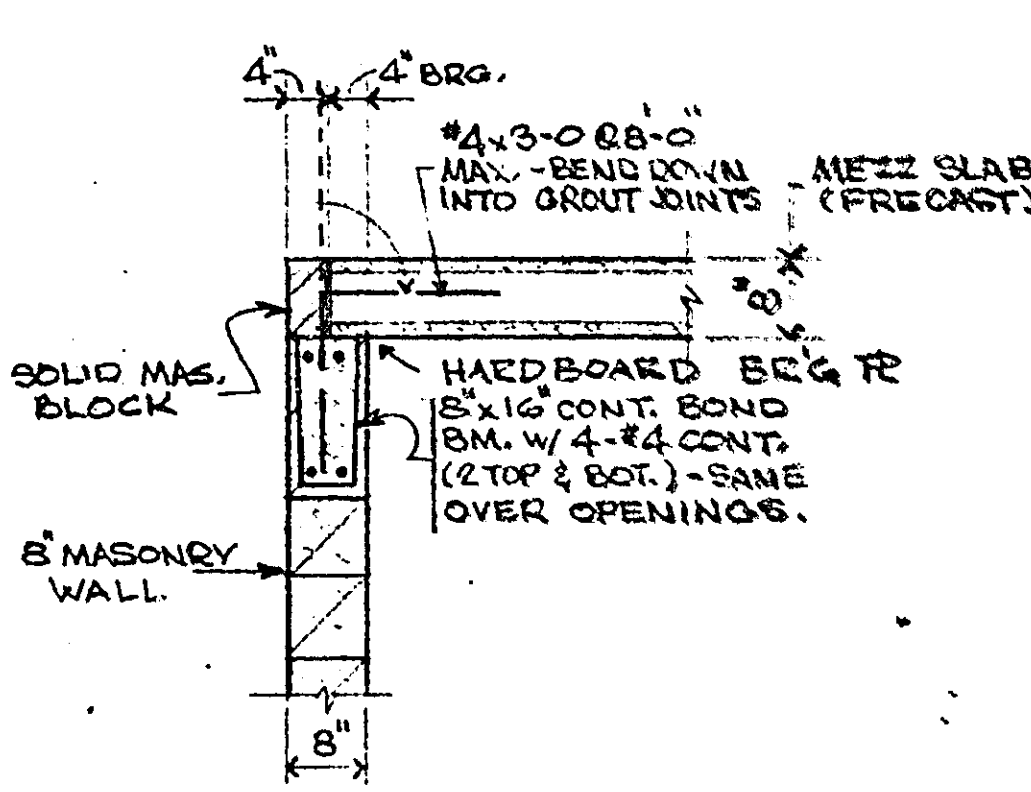
DETAIL 8 1/2"=1'-0"
TYP. COLUMN SPLICE DET.



DETAIL 7 1/2"=1'-0"
TYP. END AT TOP CHORD



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



SECTION 1 1/2"=1'-0"

STRUCTURAL NOTES

- DESIGN DATA**
- f'_c = compressive concrete strength in 28 days.
 - = 3000 psi except as noted.
 - f_y = 60,000 psi (A615 - Grade 60) x.s. reinforcing bars.
 - f_y = 36,000 psi (A36) structural steel.
 - f_y = 50,000 psi (A513) for roof trusses. See schedule for web member "D".
 - Grade 1
- LIVE LOADS**
- Roof = 40 psf.
 - Mezzanine = 100 psf.
- APPLICABLE CODES AND STANDARDS**
- Uniform Building Code.
 - American Concrete Institute Building Code.
 - Concrete Reinforcing Steel Institute Manual of Standard Practice.
 - American Institute of Steel Construction Manual of Standard Practice.
 - Steel Joist Institute Specifications.
- DIMENSIONS & ELEVATIONS**
- Verify all dimensions, elevations and details with architectural and mechanical drawings.
- PRECAST PRESTRESSED FLOORS AND WALLS**
- Floor and wall units shall be hollow core units capable of supporting the superimposed live and dead loads. The units shall be 8" deep as manufactured by Fabcon, Inc. Precast concrete plank supplier to furnish headers and plates cast in units as required. See architectural and mechanical drawings for openings.
- STEEL JOISTS**
- Steel joists shall be designed in accordance with AISI and SJI Standard Specifications of latest adoption and fabricated in accordance with the latest edition of AISI Specifications. Use horizontal bridging for joists. Weld bridging to steel beams where beams are parallel to joists. Minimum top chord thickness is 7/8".
- TRUSSES**
- Web members and cross members shall be cut and fitted as required for proper welding. All welds at connections and chord splices to develop the strength of the members except as indicated for column base plates and field splices.
 - Shin trusses in one piece with column field splices as indicated. Location of colu. splices to be within the depth of the truss but not less than 4'-0" from top.
- SLABS AT ENTRANCES**
- Provide 74" x 3'-0" @ 12" dowels from floor slab into sidewalk at entrances. See Section 9/1.

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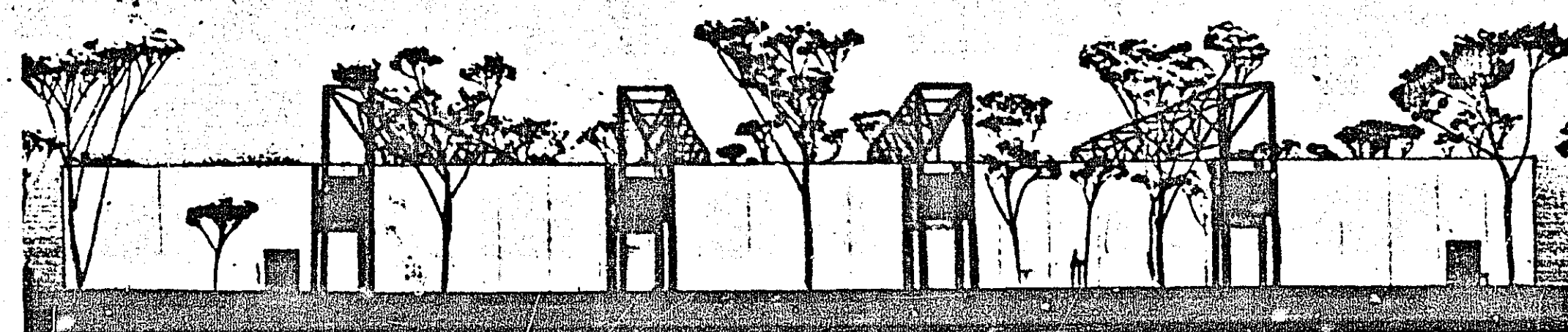
Ramsey County Ice Arena Program

Ramsey County Recreational Facilities Building Commission

Index of Drawings

Prototype Building	Architectural	1 - 6
	Structural	S1 - S2
	Mechanical	M1 - M2
	Electrical	E1
	Alternates	8

District	46 A	-	Pleasant / Osceola	Site	drawings to follow
	43 A	-	Congress / Isabel		11 - 12, S11
	45 A	-	Thomas / Dale		13, S13
	47 A	-	Highland Park		15, S15
	50 B	-	White Bear Lake		17, S17

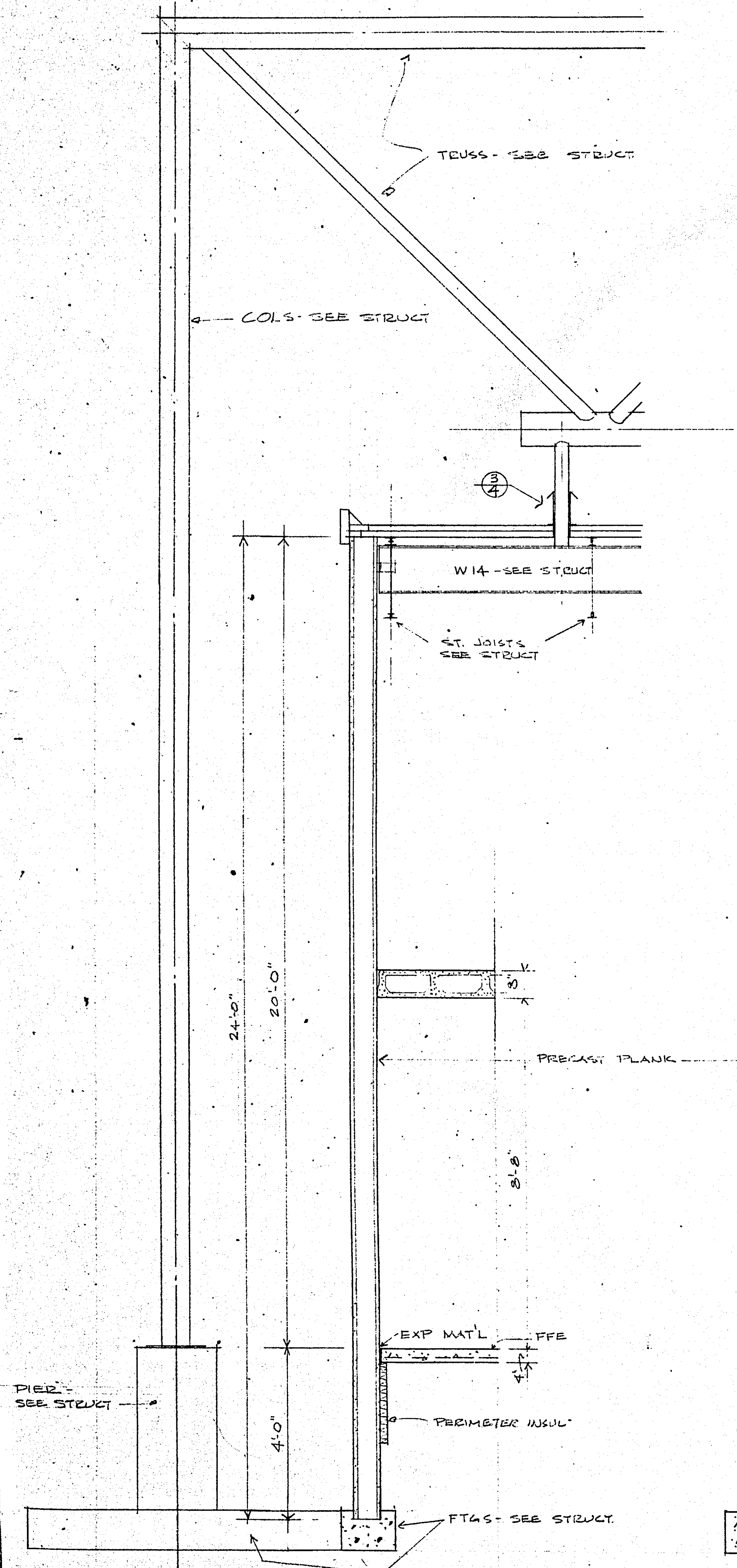


RAMSEY COUNTY RECREATIONAL FACILITIES BUILDING COMMISSION

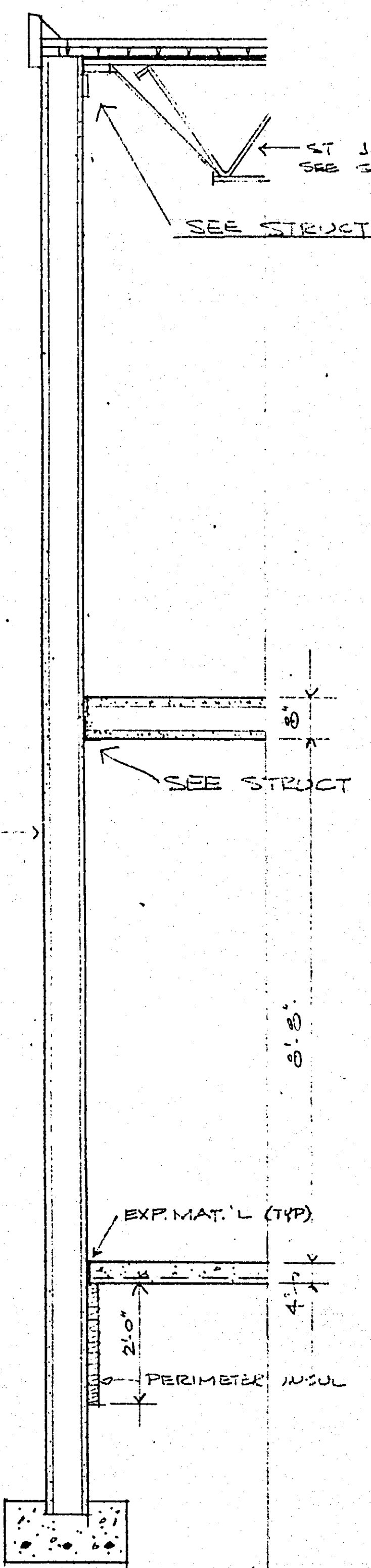
APPROVED BY Therese J. O'Neil

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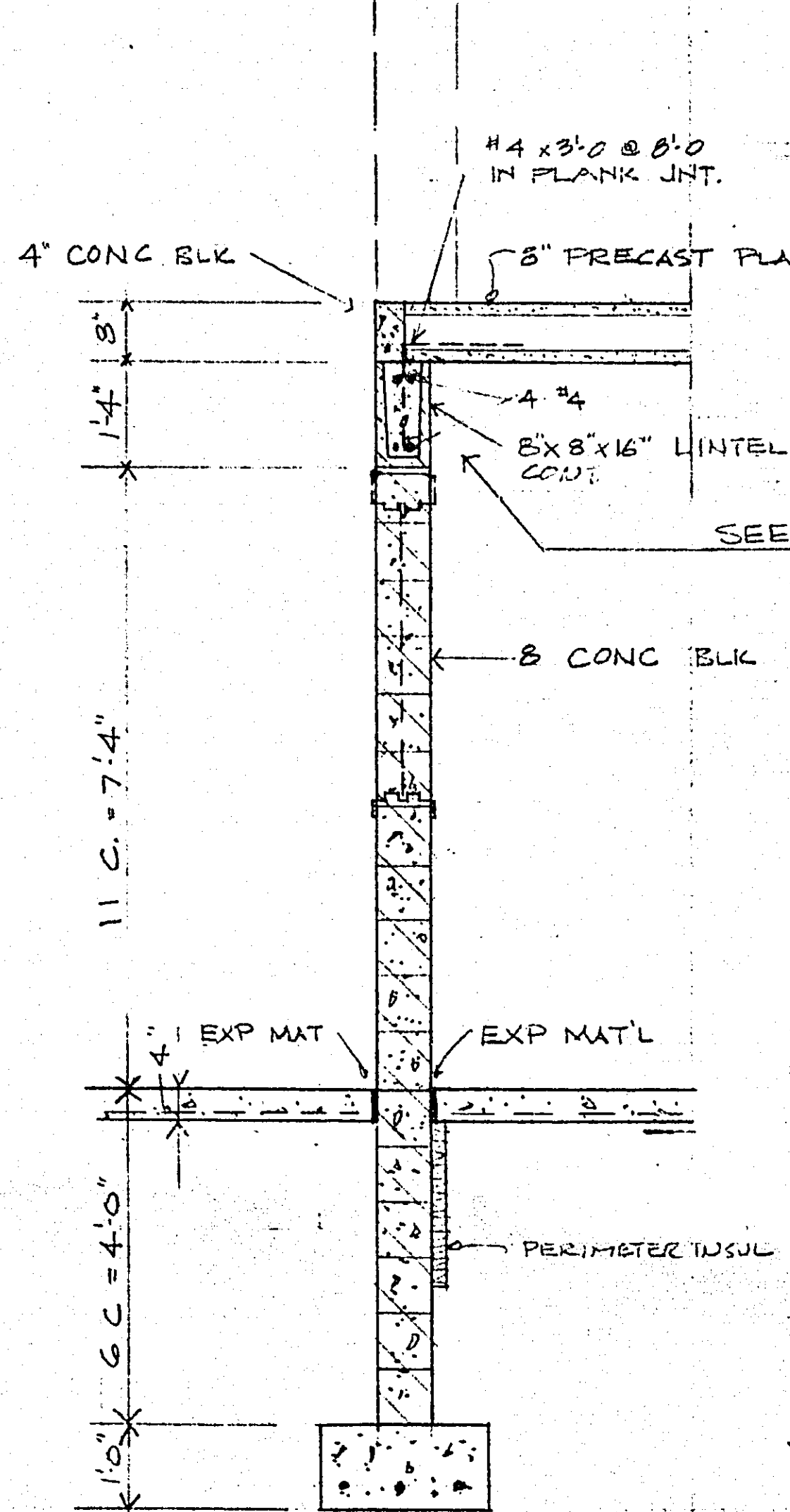
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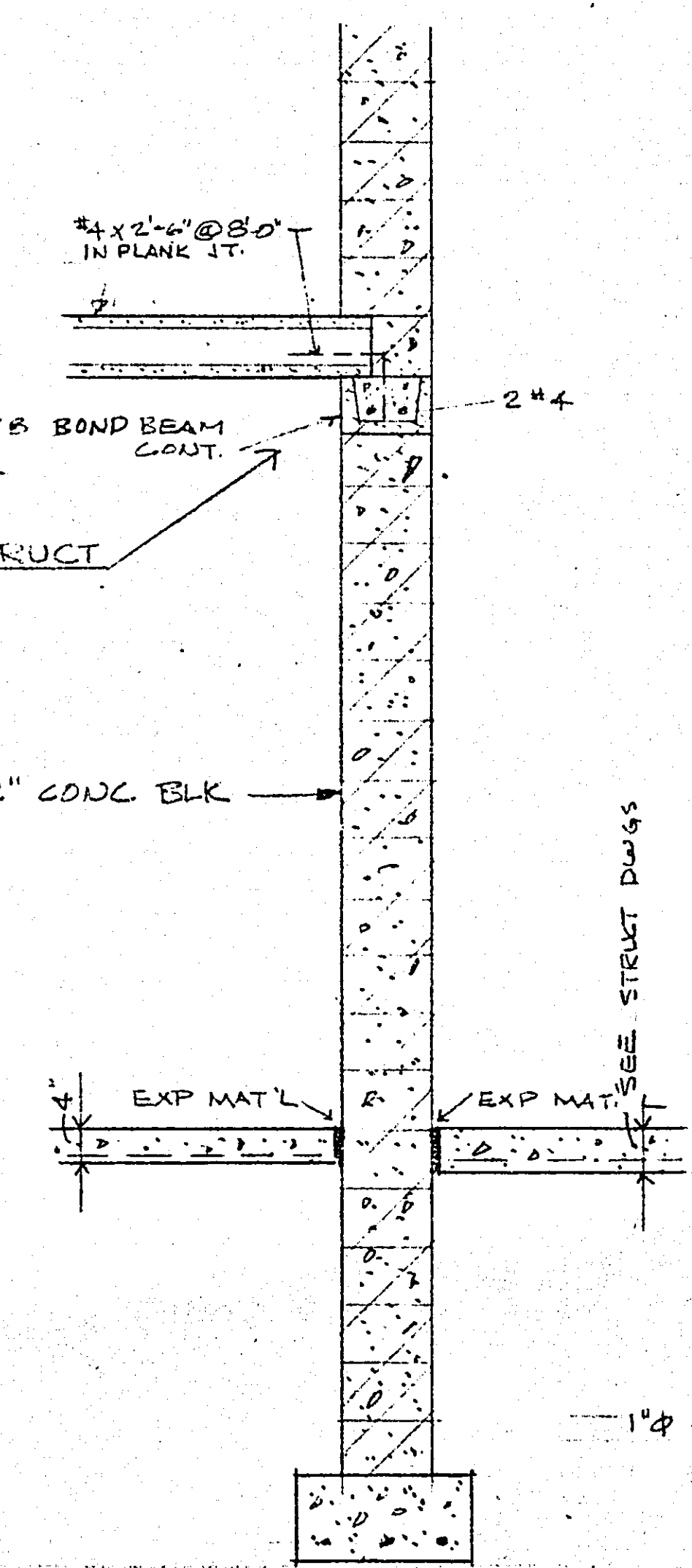
① SIDE WALL
1/2" = 1'-0"



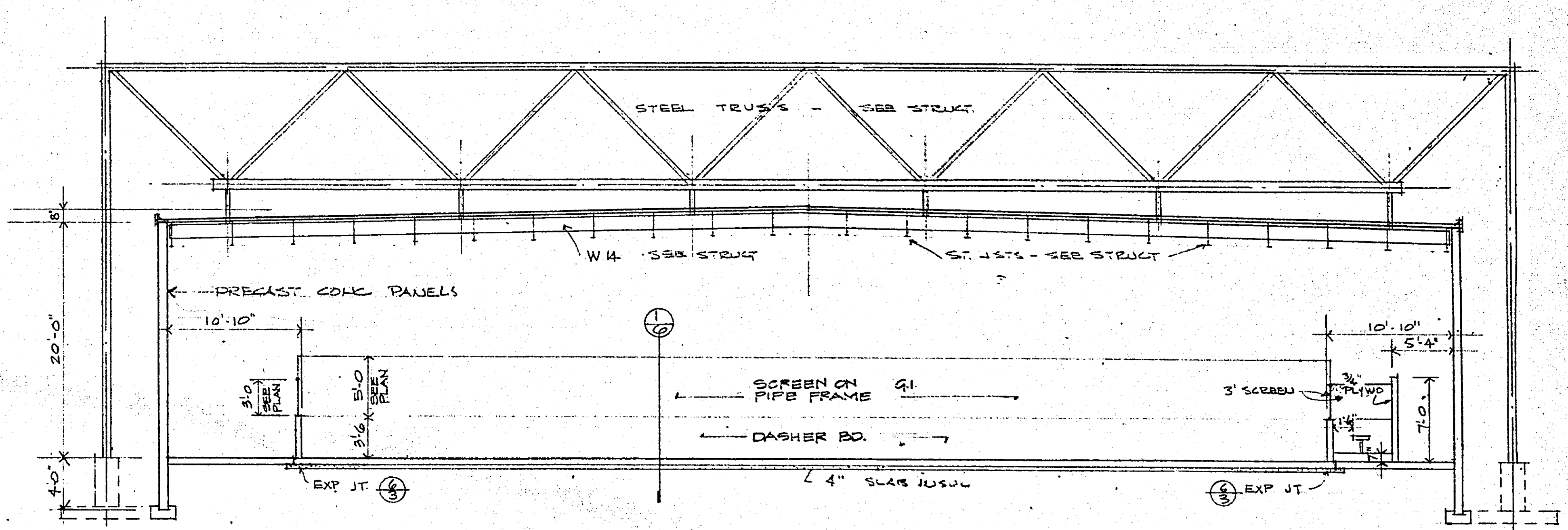
② END WALL
1/2" = 1'-0"



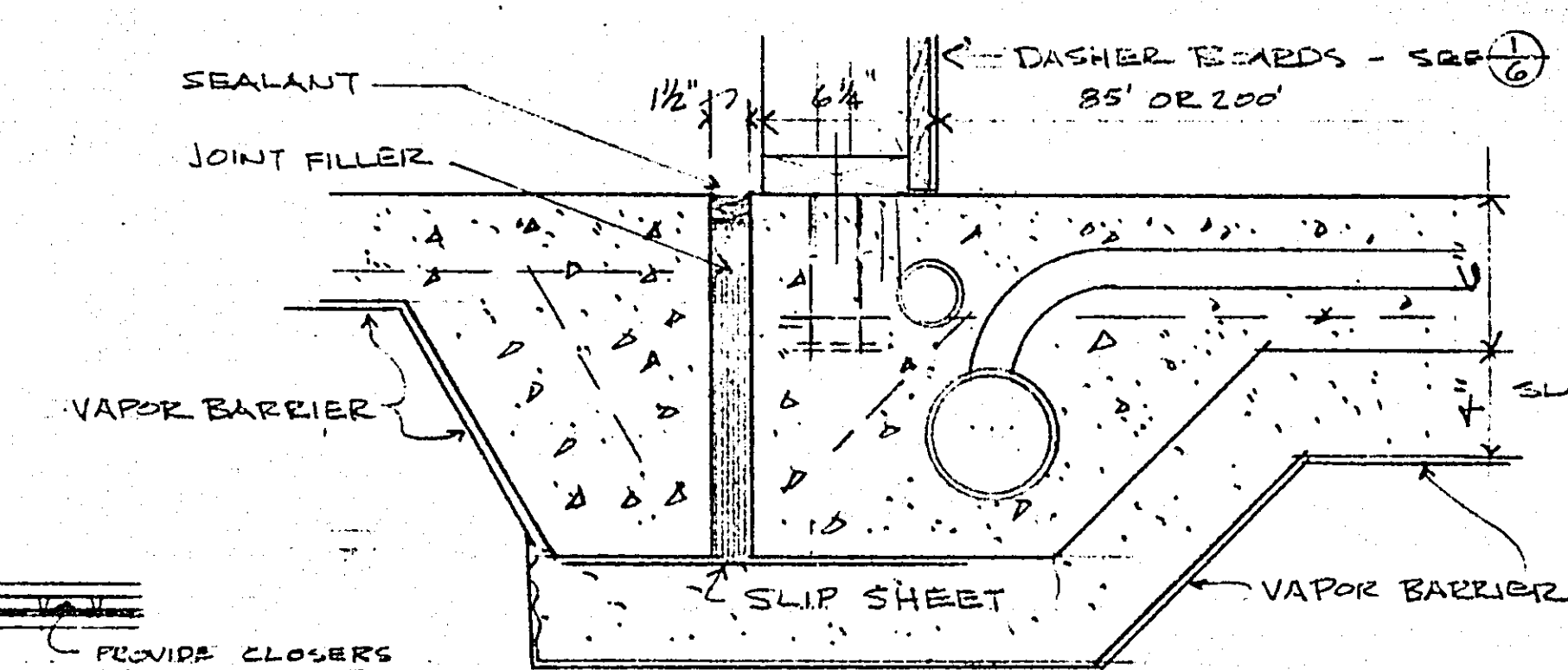
③ MEZZANINE
1/2" = 1'-0"



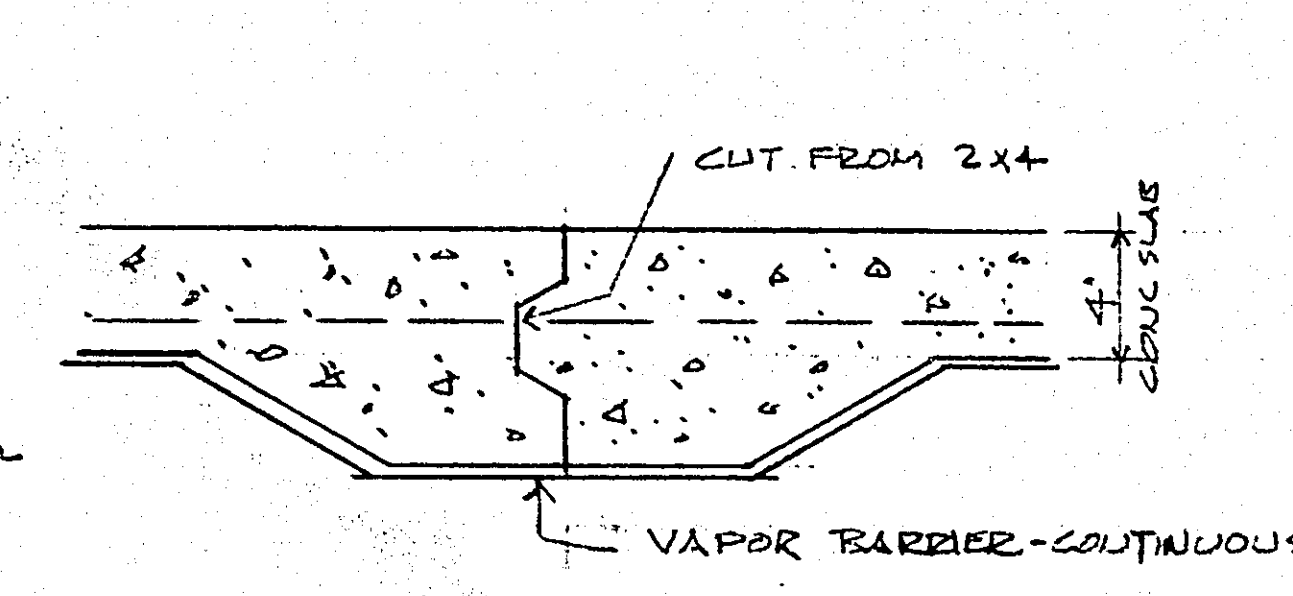
④ DETAIL AT 12" WALL
1/2" = 1'-0"



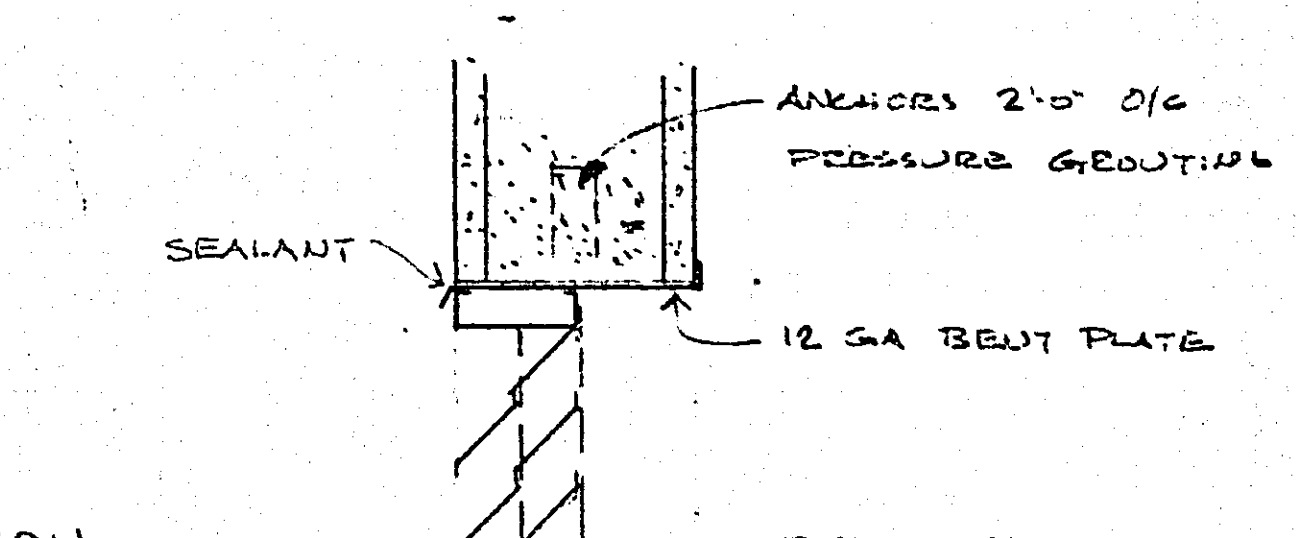
SECTION 1/2" = 1'-0"



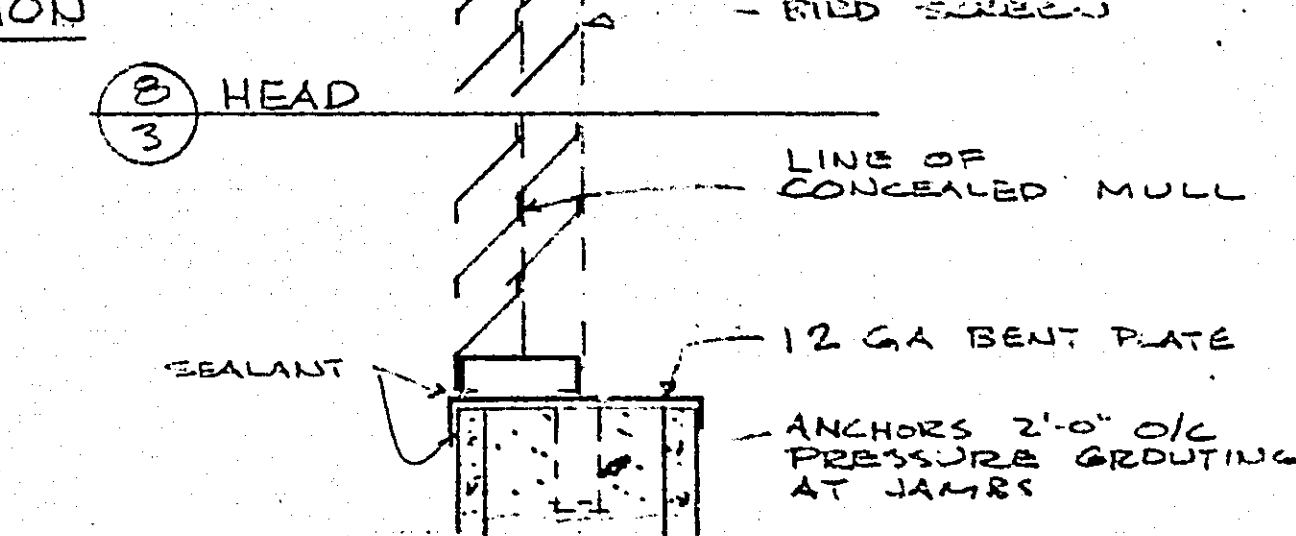
⑤ EXPANSION JOINT (SIDE & ENDS)
1 1/2" = 1'-0"



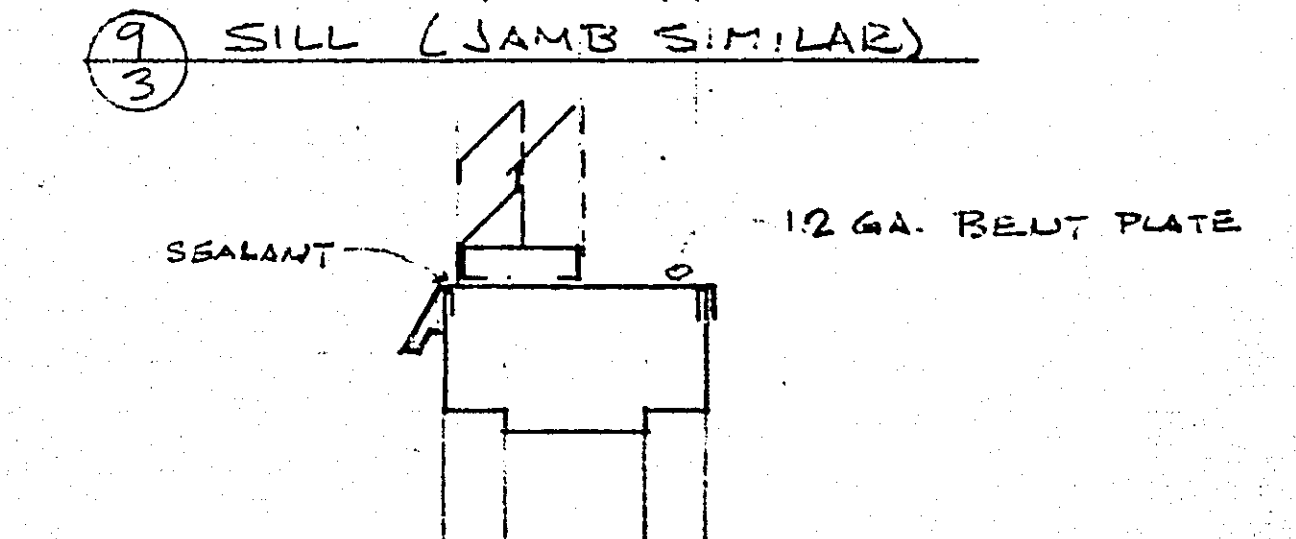
⑦ CONSTRUCTION JOINT
1 1/2" = 1'-0"



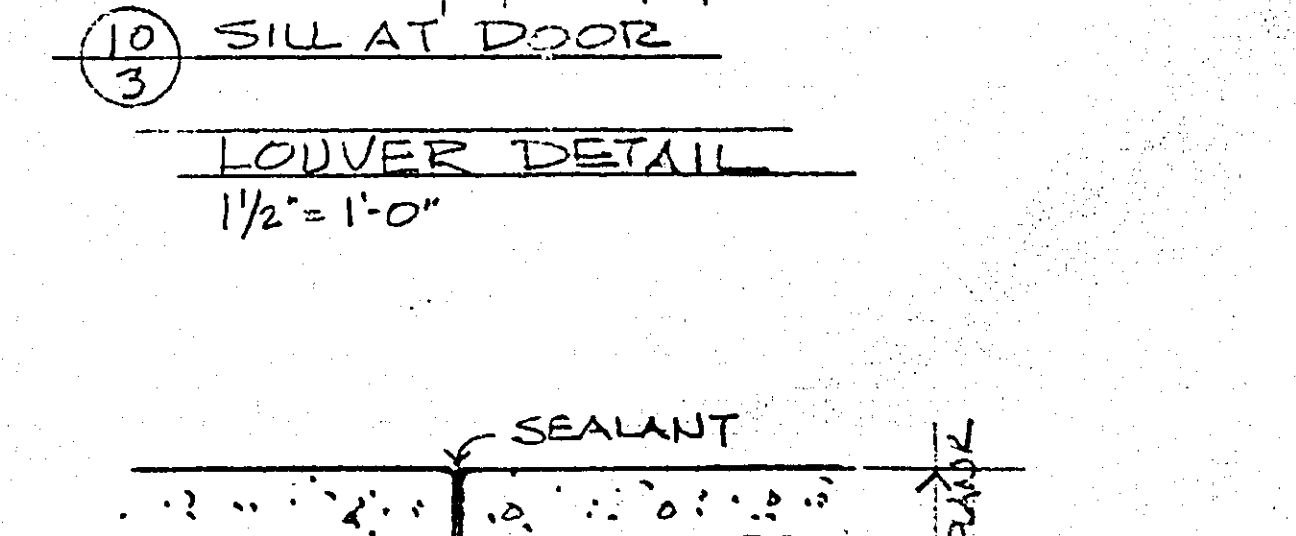
⑤ DETAIL AT 8" PARTITION
1/2" = 1'-0"



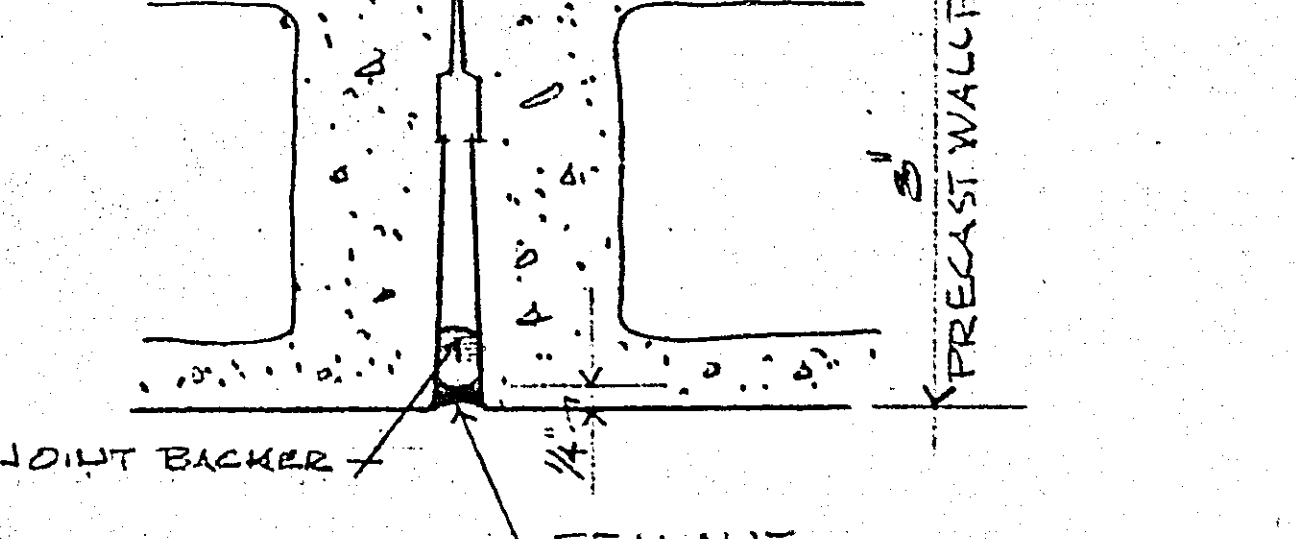
⑧ HEAD
1'-0" = 1'-0"



⑨ SILL (JAMB SIMILAR)
1'-0" = 1'-0"



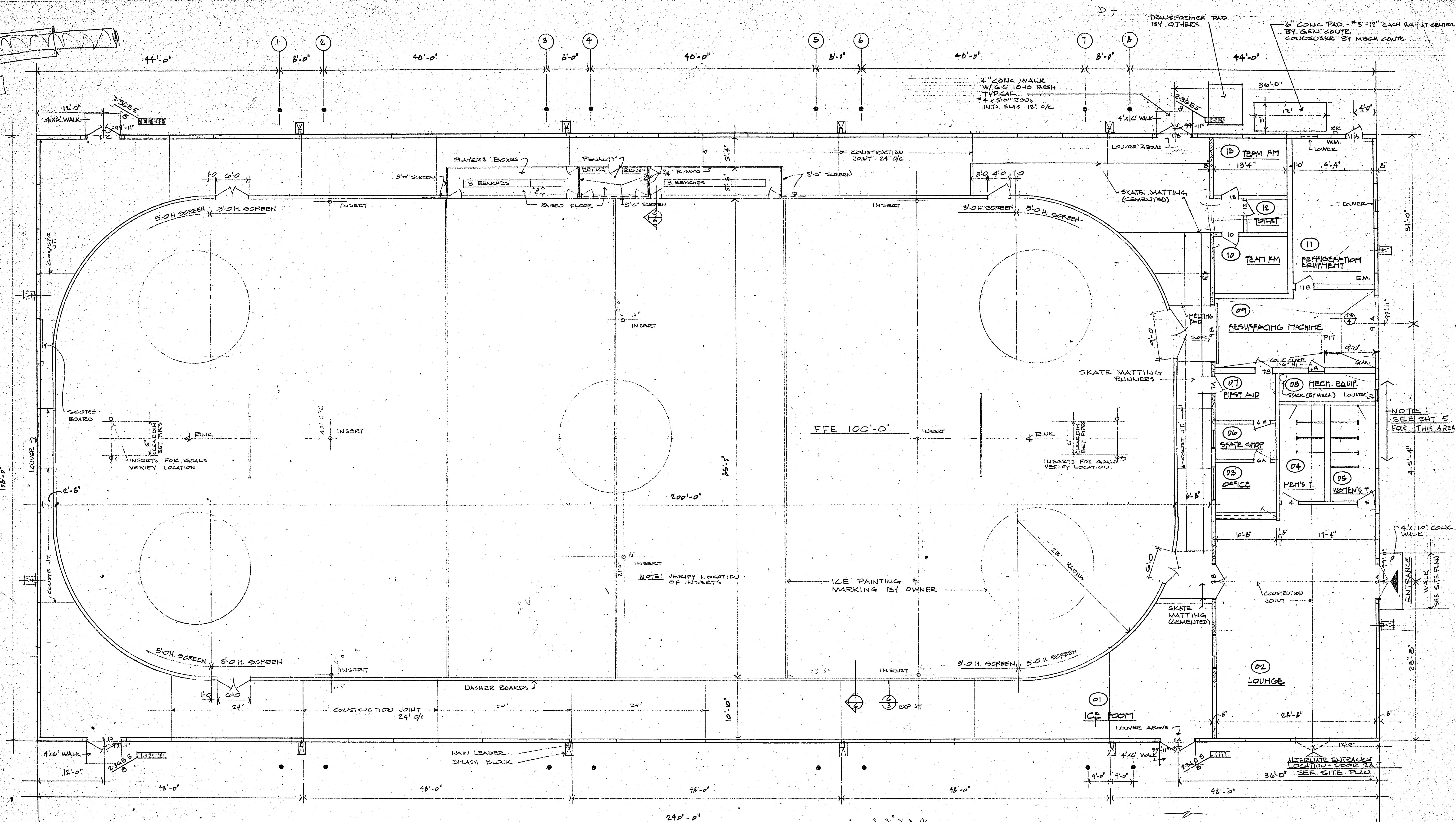
⑩ SILL AT DOOR
1'-0" = 1'-0"



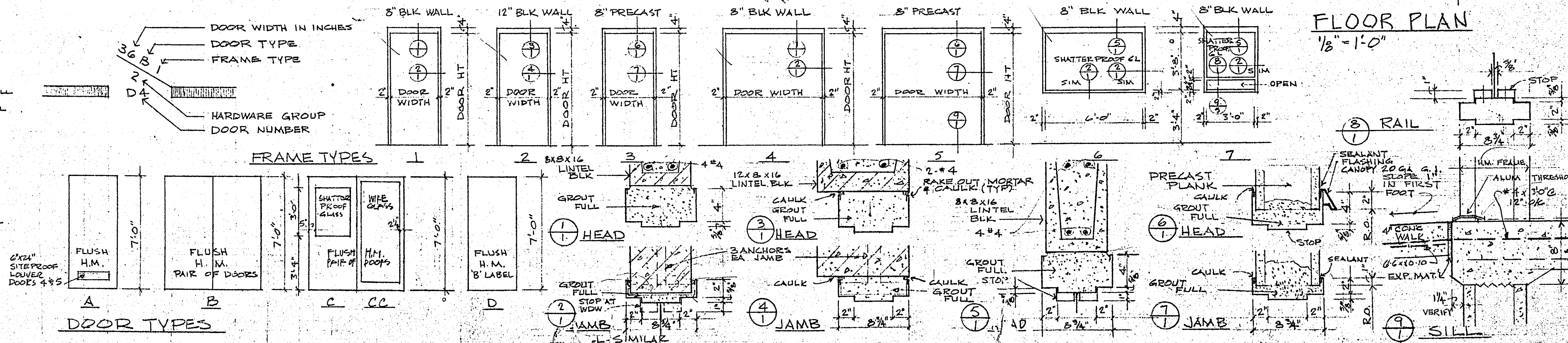
⑪ JOINT DETAIL AT PRECAST PLANK WALL
3" = 1'-0"

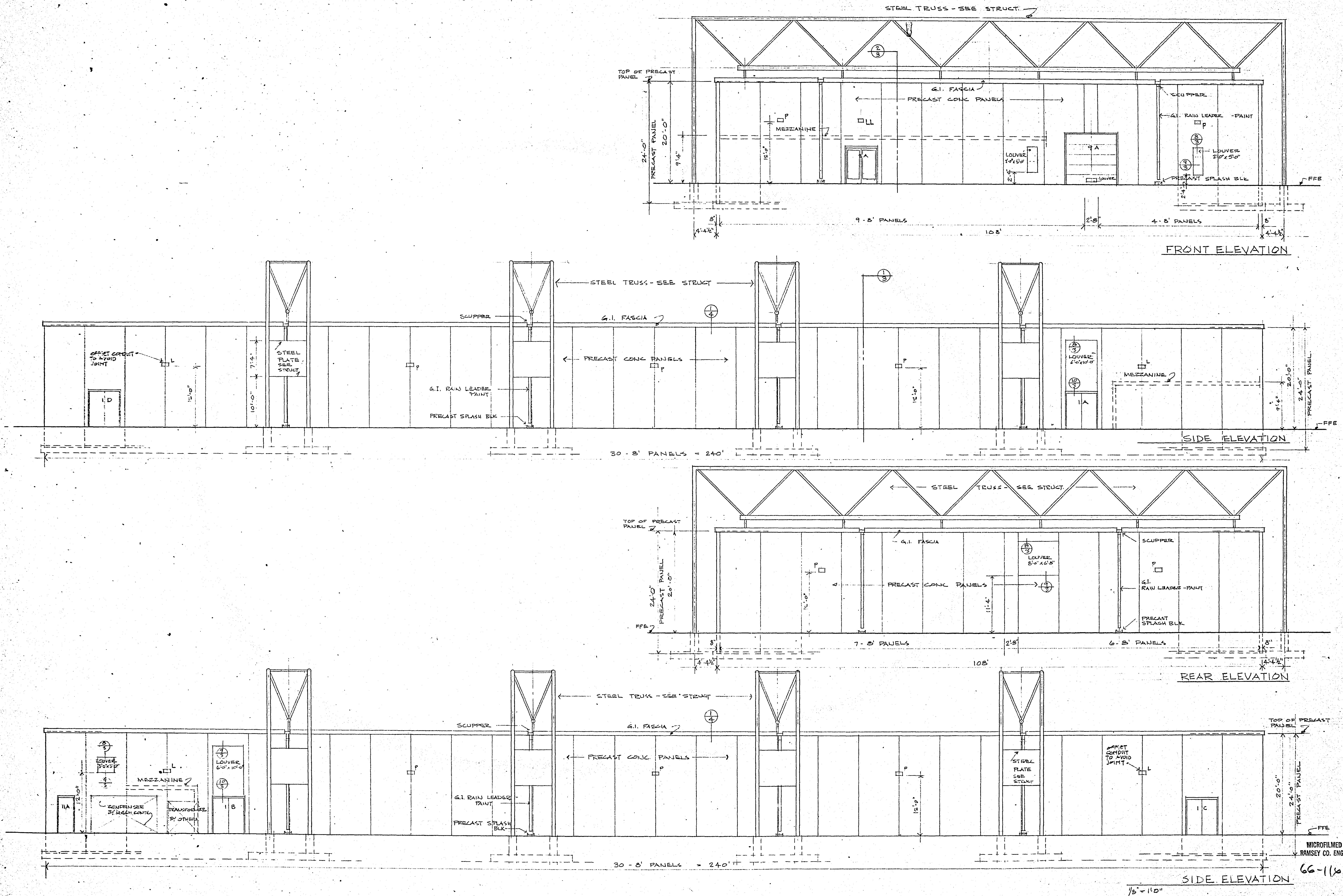
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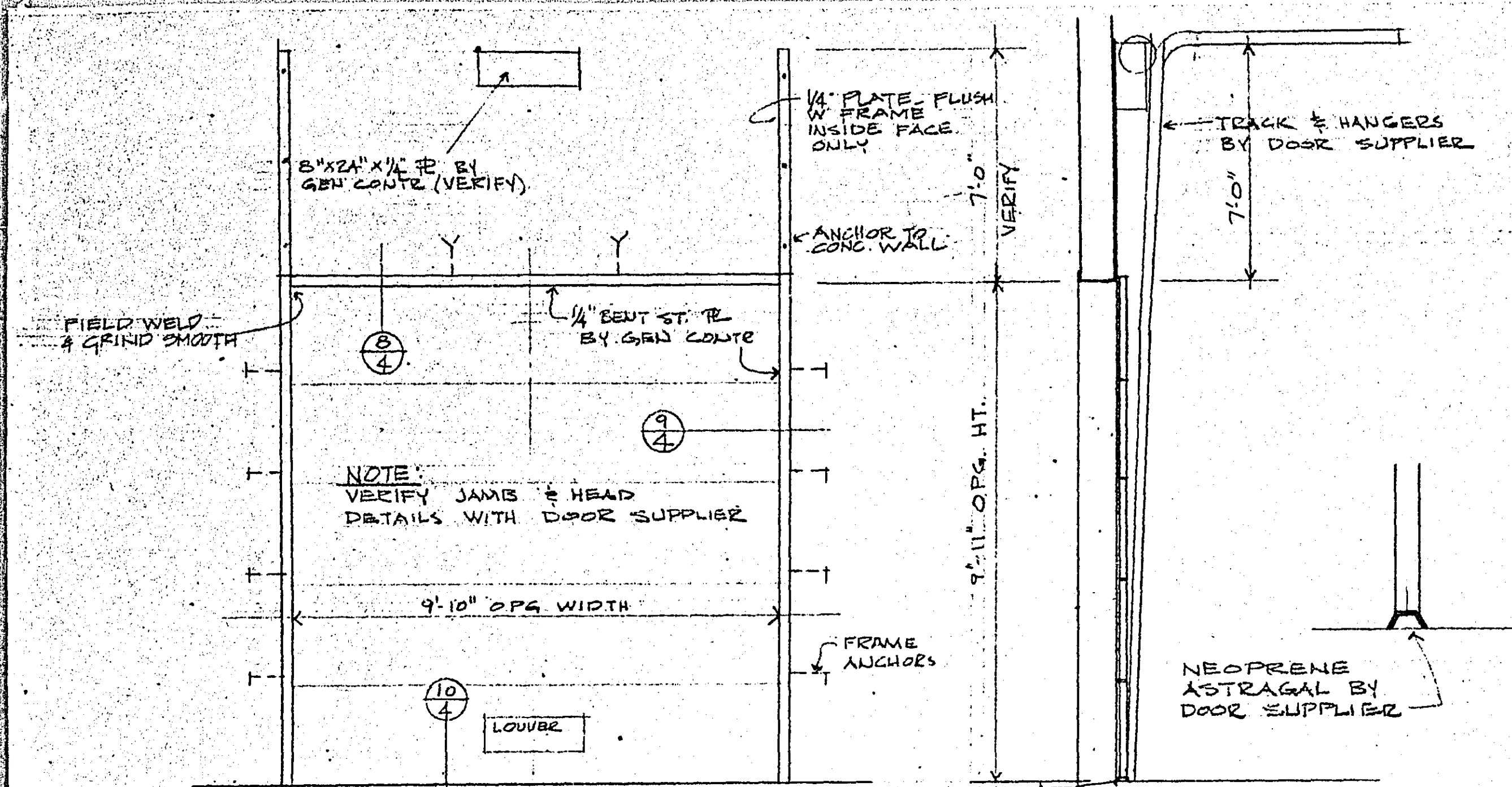
WALL SECTIONS



ROOM FINISH SCHEDULE					
NO.	ROOM	FLOOR	WALLS	FIN. CLGT	REMARKS
01	ICE ROOM	SEE PLAN	CONC & BLK	—	SEE ALTERNATES
02	LOUNGE	8" HI. PAINT	CONC & BLK	PT 8'-8"	VESTIBULE SAME (ALT)
03	OFFICE	SKATE MATTING	BLK	PT 8'-8"	
04	MEN'S T.	CONC	BLK	PT 8'-8"	SPECIAL FIN. - FUTURE WALL SKATE MATTING RUNNERS
05	WOMEN'S T.	CONC	CONC & BLK	PT 8'-8"	SPECIAL FIN. - FUTURE WALL SKATE MATTING RUNNERS
06	SKATE SHOP	SKATE MATTING	BLK	PT 8'-8"	
07	FIRST AID	SKATE MATTING	BLK	PT 8'-8"	
08	MECH EQUIP	CONC	CONC & BLK	—	
09	RESURFACING MACHINE	CONC	CONC & BLK	—	
10	TEAM RM	8" HI. PAINT	SKATE MATTING	BLK	PT 8'-8"
11	REFRIGERATION EQUIPMENT	CONC	CONC & BLK	—	
12	TEAM T.	8" HI. PAINT	BLK	PT 8'-8"	SPECIAL FIN. - FUTURE WALL SKATE MATTING RUNNERS
13	TEAM RM	8" HI. PAINT	SKATE MATTING	CONC & BLK	PT 8'-8"

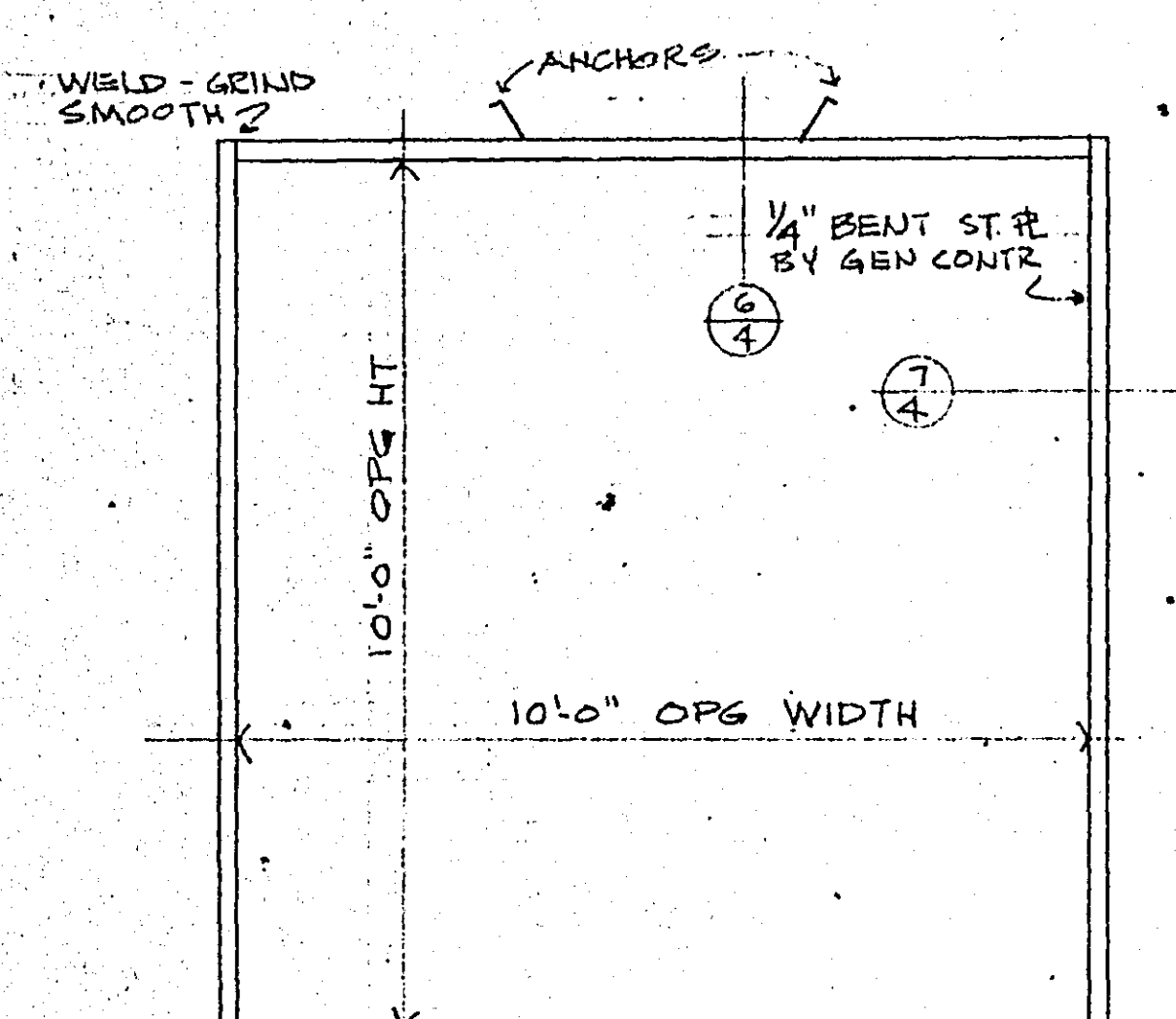




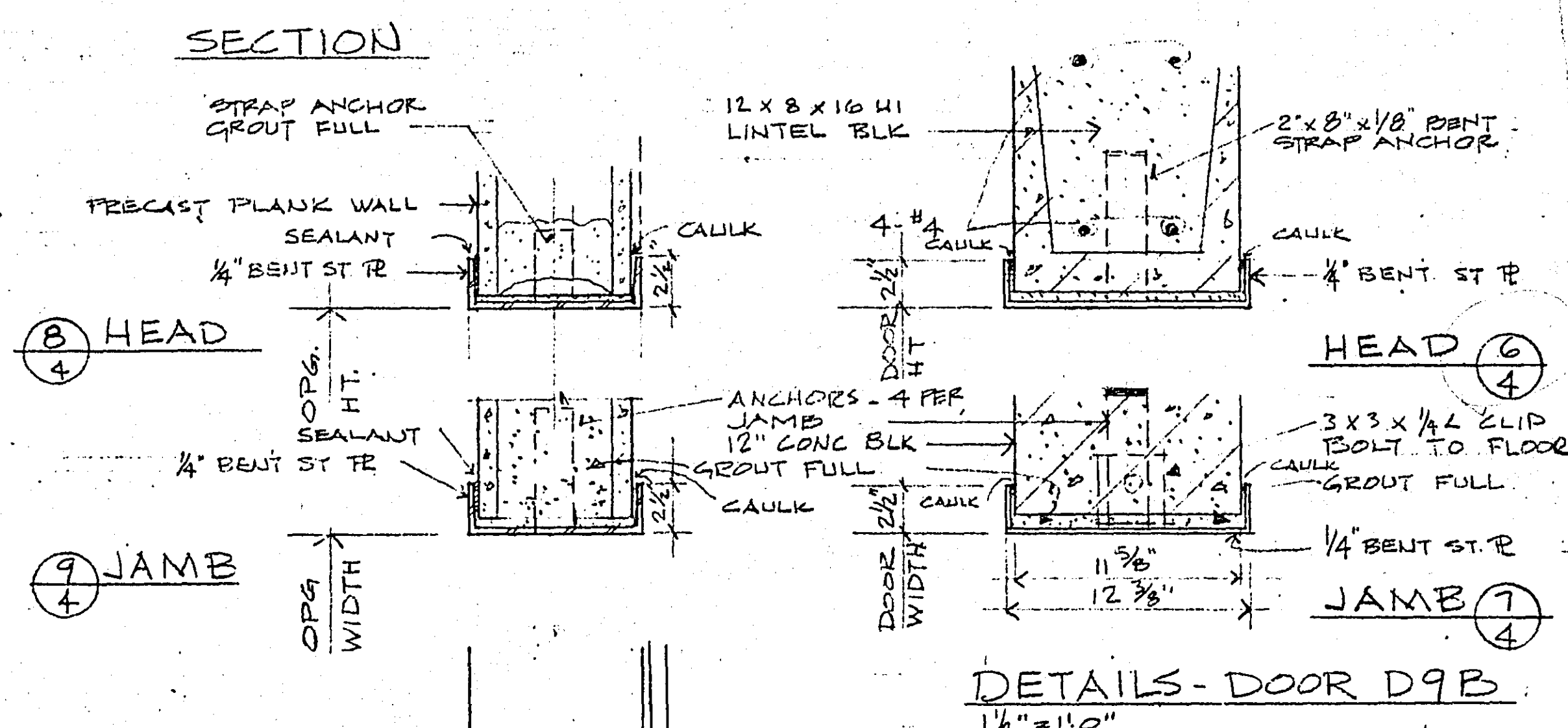


ELEVATION - INTERIOR

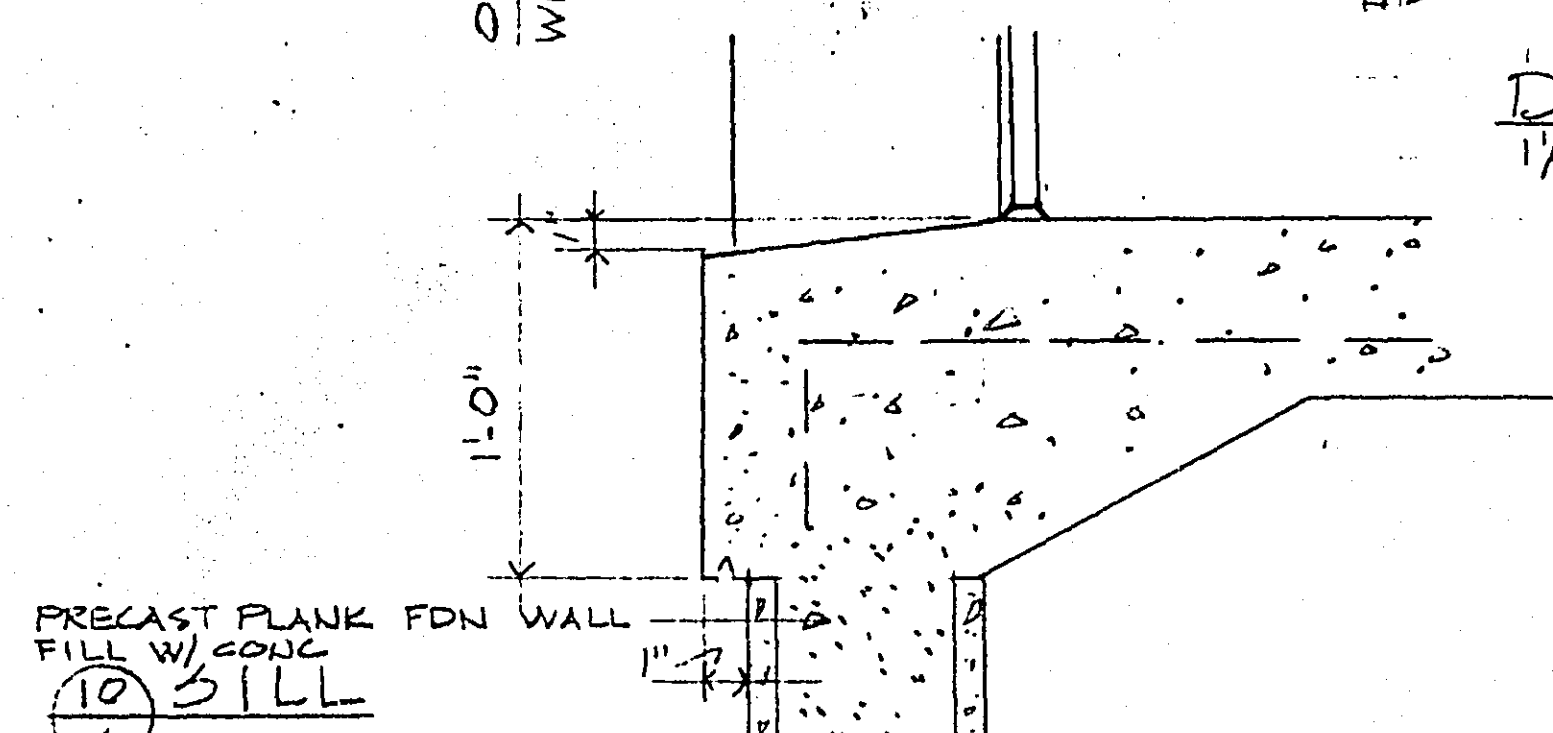
⑪ DETAILS - DOOR D9A
④ $3\frac{1}{2}" = 1\frac{1}{2}"$



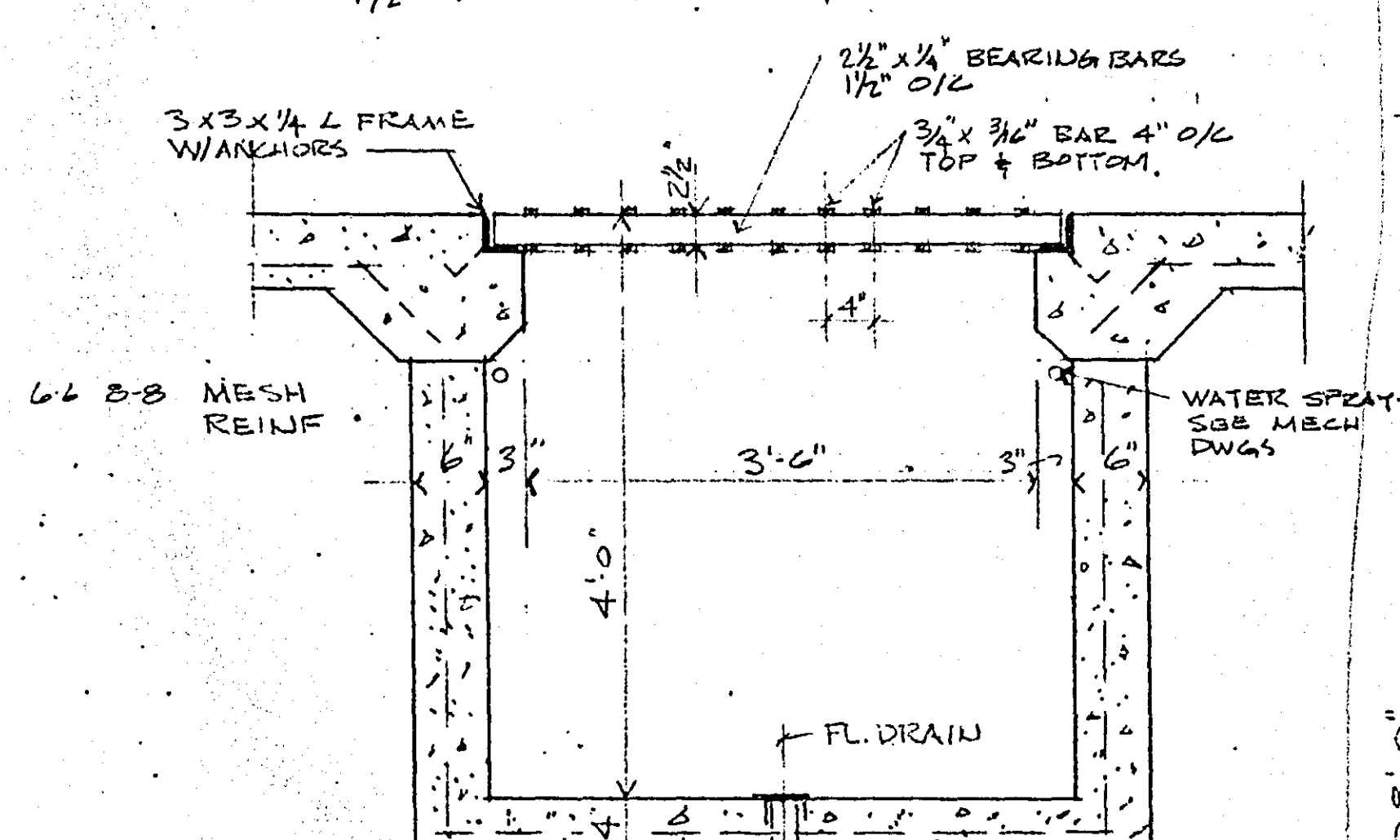
12 ELEVATION DOOR D9B
4 $\frac{3}{8}" = 1.0"$



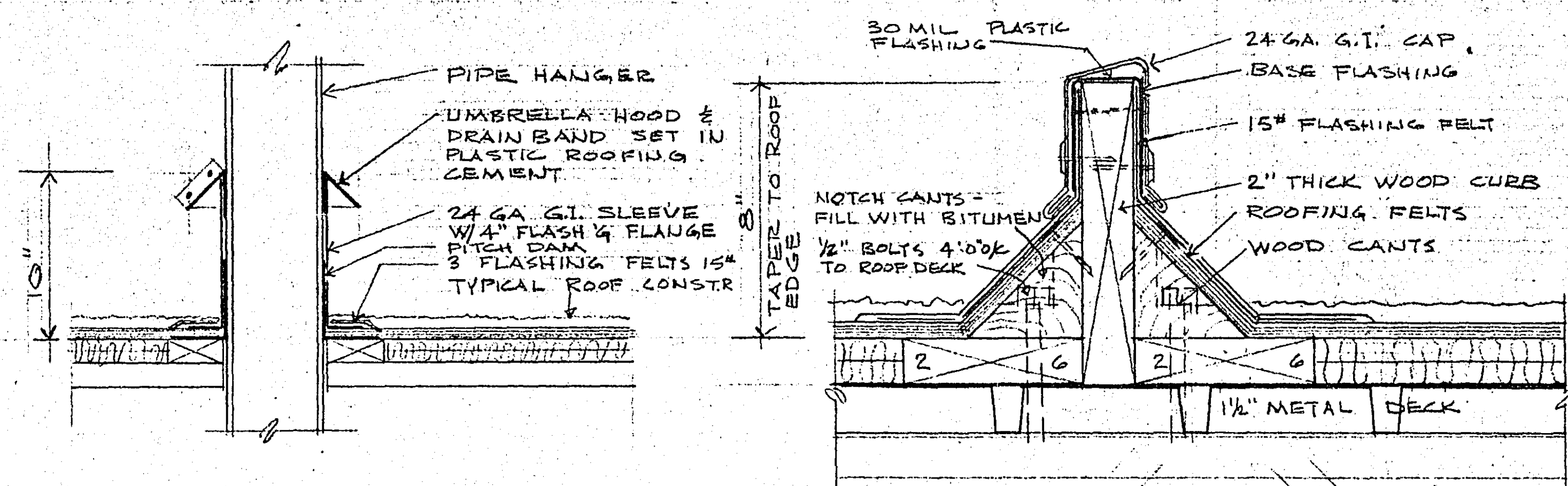
DETAILS - DOOR D9B
1 1/2" = 1' 0"



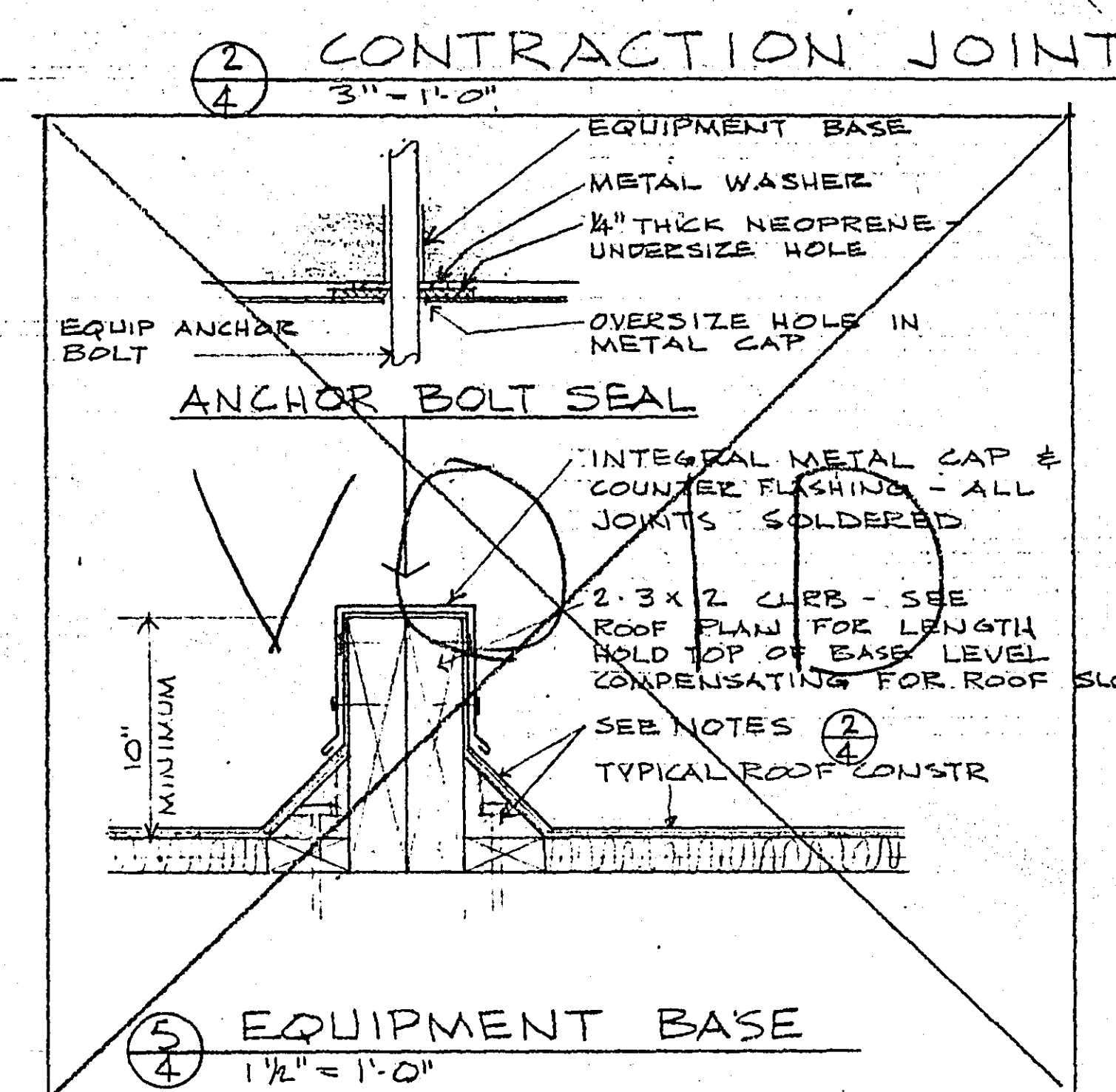
DETAILS - DOOR D9A



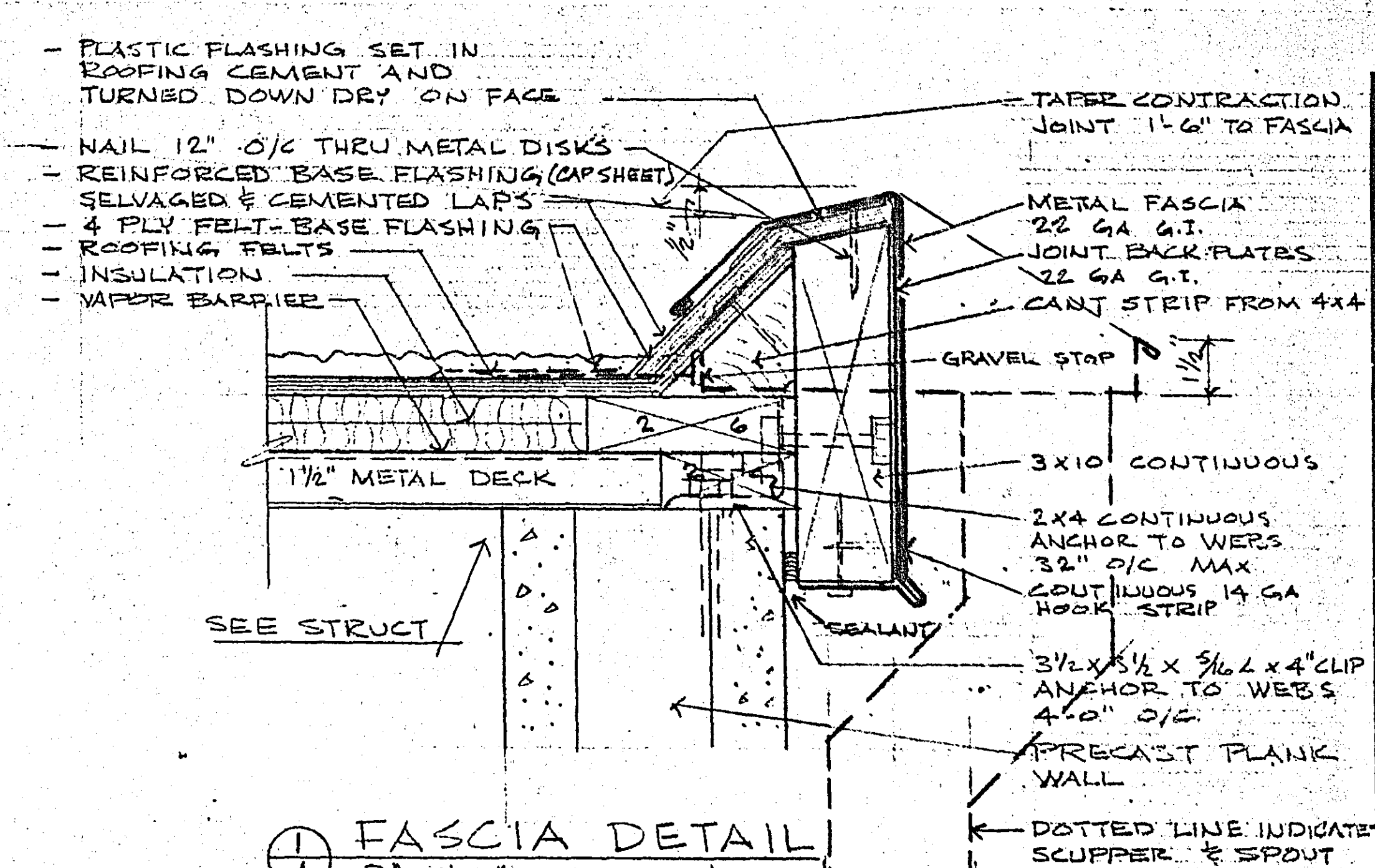
⑬ PIT DETAIL - RM 00
④ $3/4" = 1'-0"$



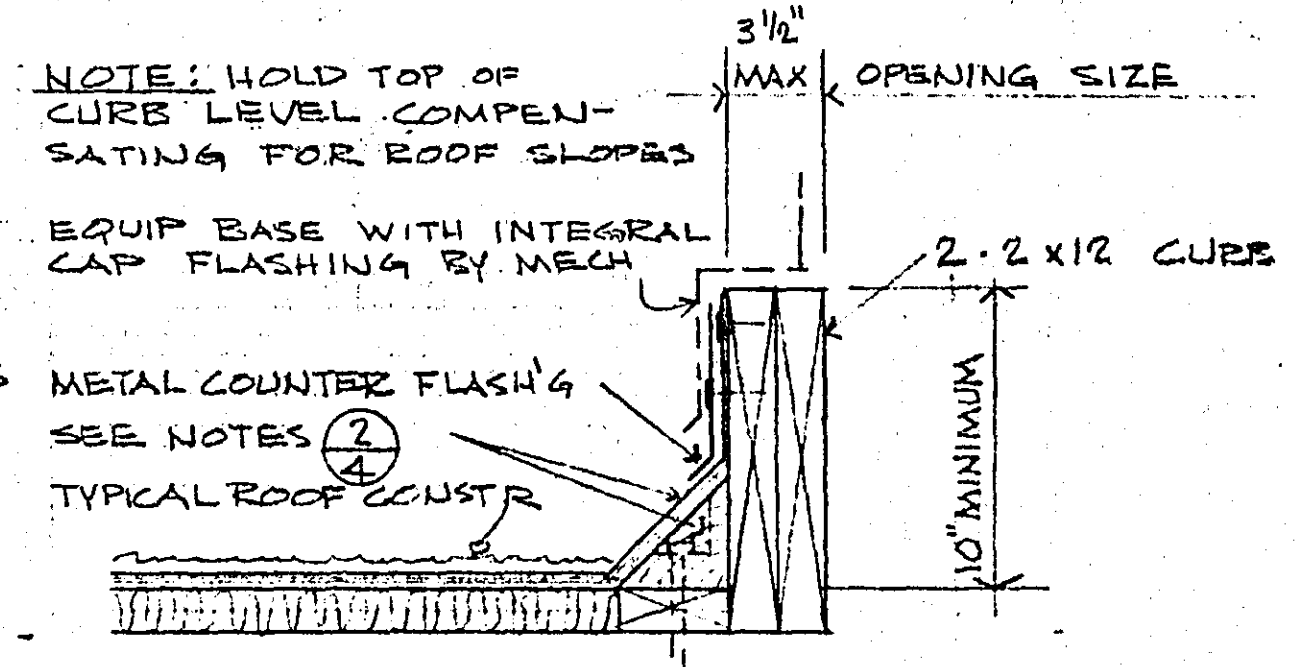
③ PIPE HANGER FLASH'G
④ 1 1/2" = 1'-0"



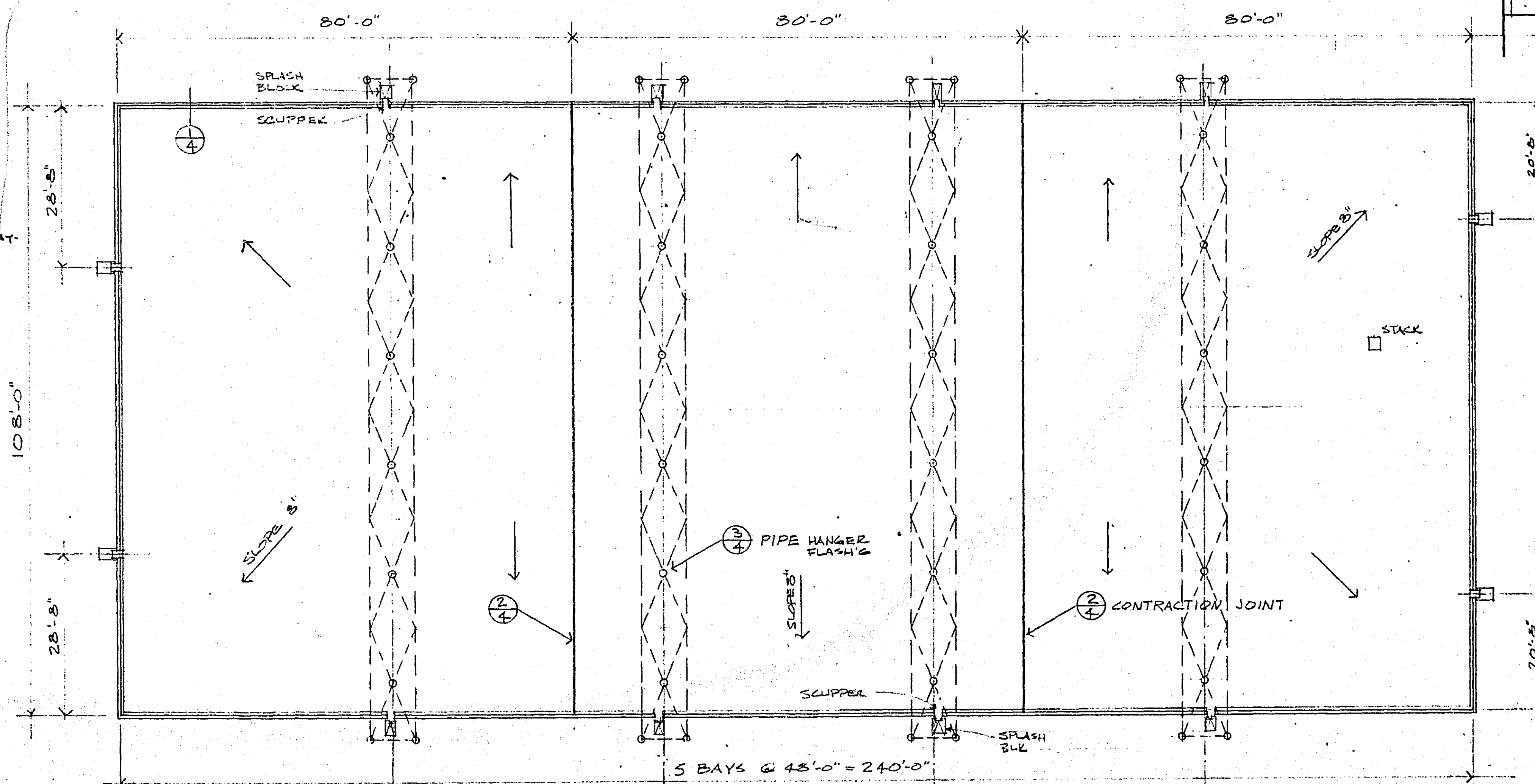
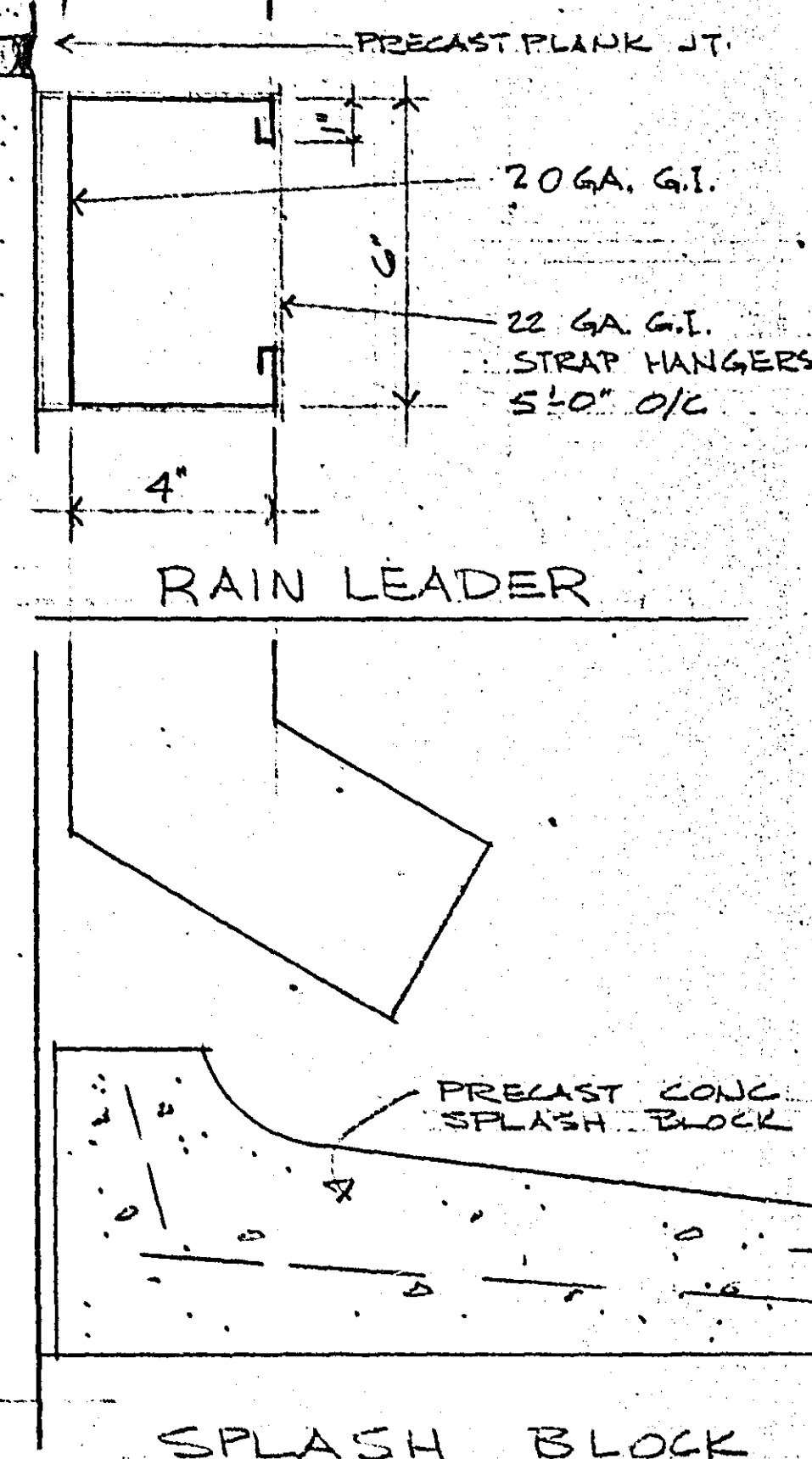
② CONTRACTION JOINT



① FASCIA DETAIL



④ CURB AT ROOF OPG
④ 1 1/2" = 1'-0" (STACK)

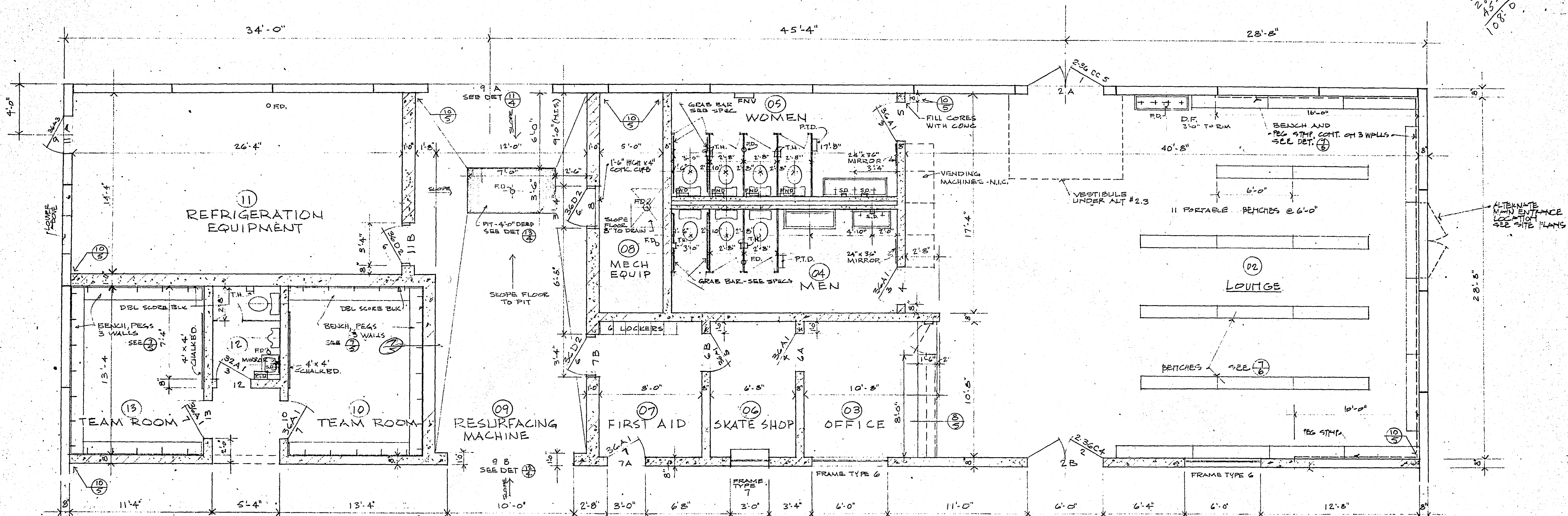


ROOF PLAN
1/16" = 1'-0"

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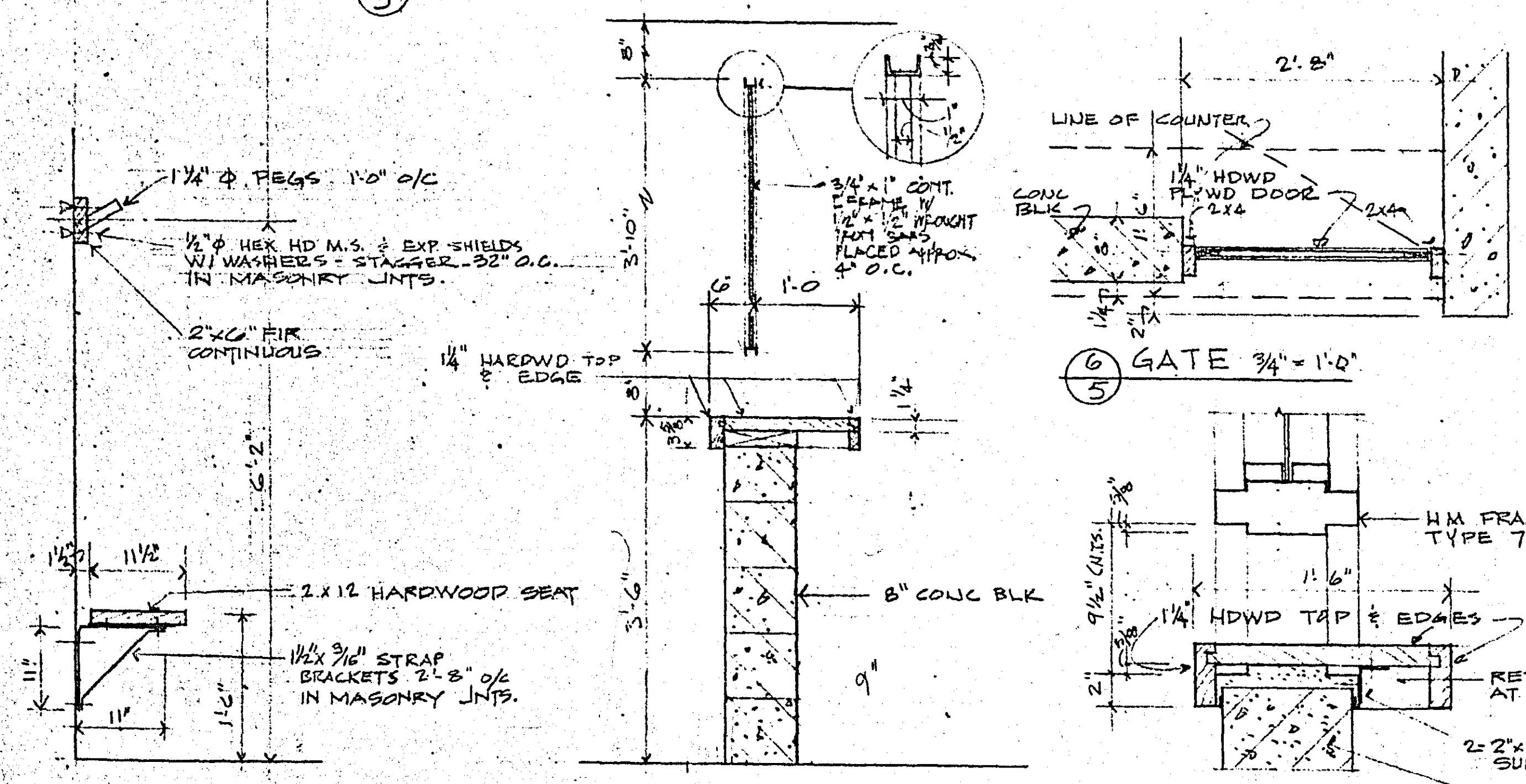
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34'-0"
45'-4"
28'-8"
108'-0"



PLAN
1/4" = 1'-0"

RM 01 ELEVATION
1/4" = 1'-0"

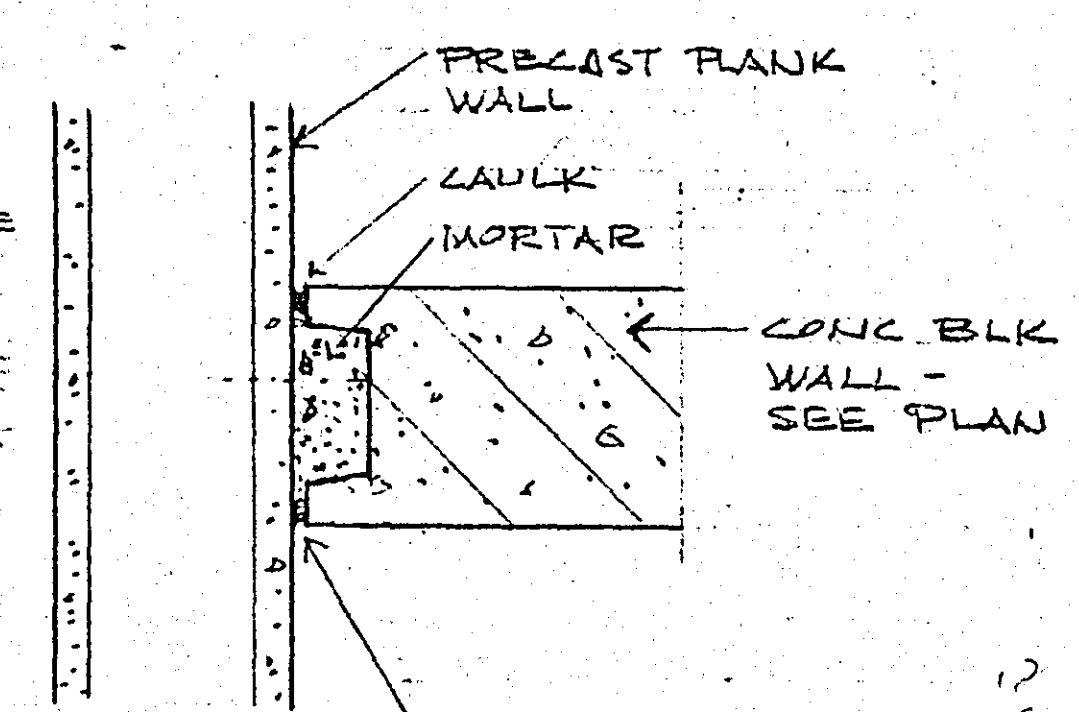


TEAM ROOM DETAILS
1/4" = 1'-0"

COUNTER RM 03
1/4" = 1'-0"

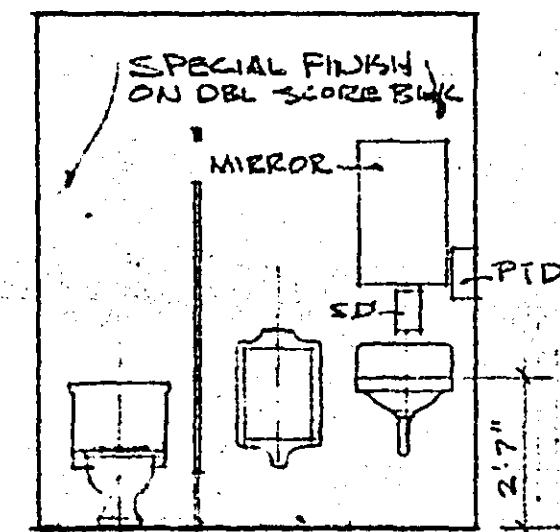
COUNTER RM 06
1/4" = 1'-0"

RM 03 OFFICE
1/4" = 1'-0"

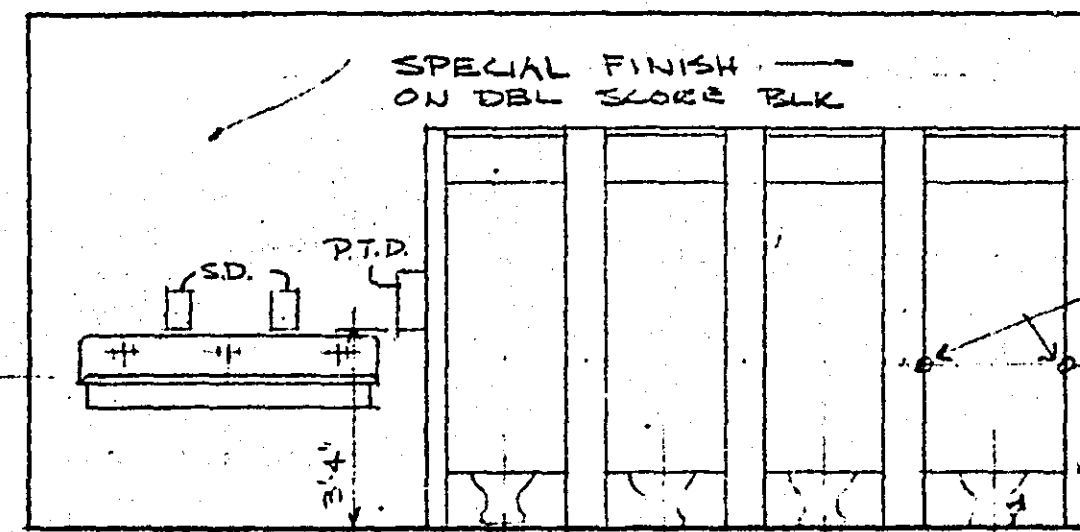


WALL ANCHOR DETAIL
1 1/2" = 1'-0"

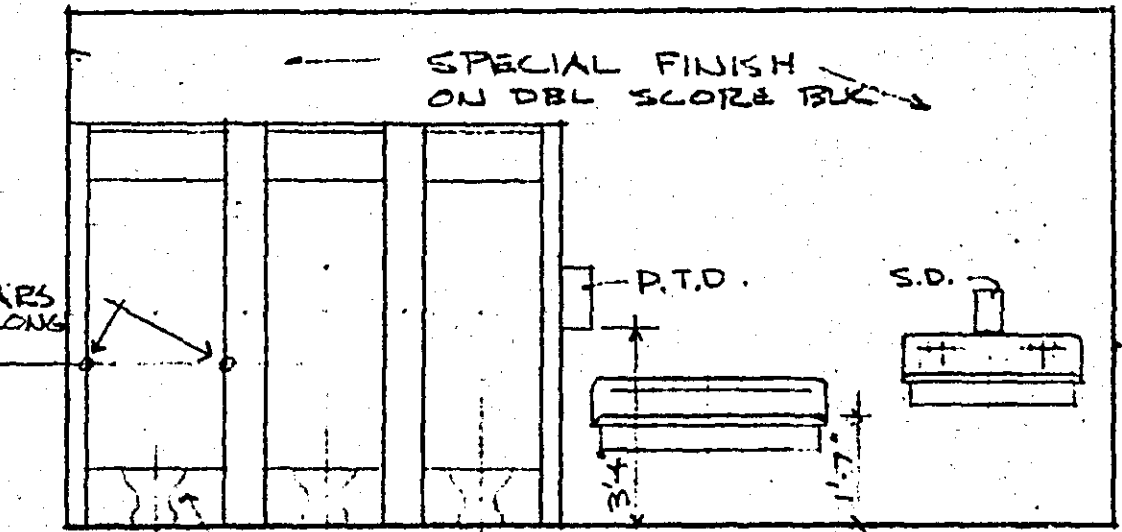
RM 12 TEAM T.
1/4" = 1'-0"



RM 05 WOMEN
1/4" = 1'-0"

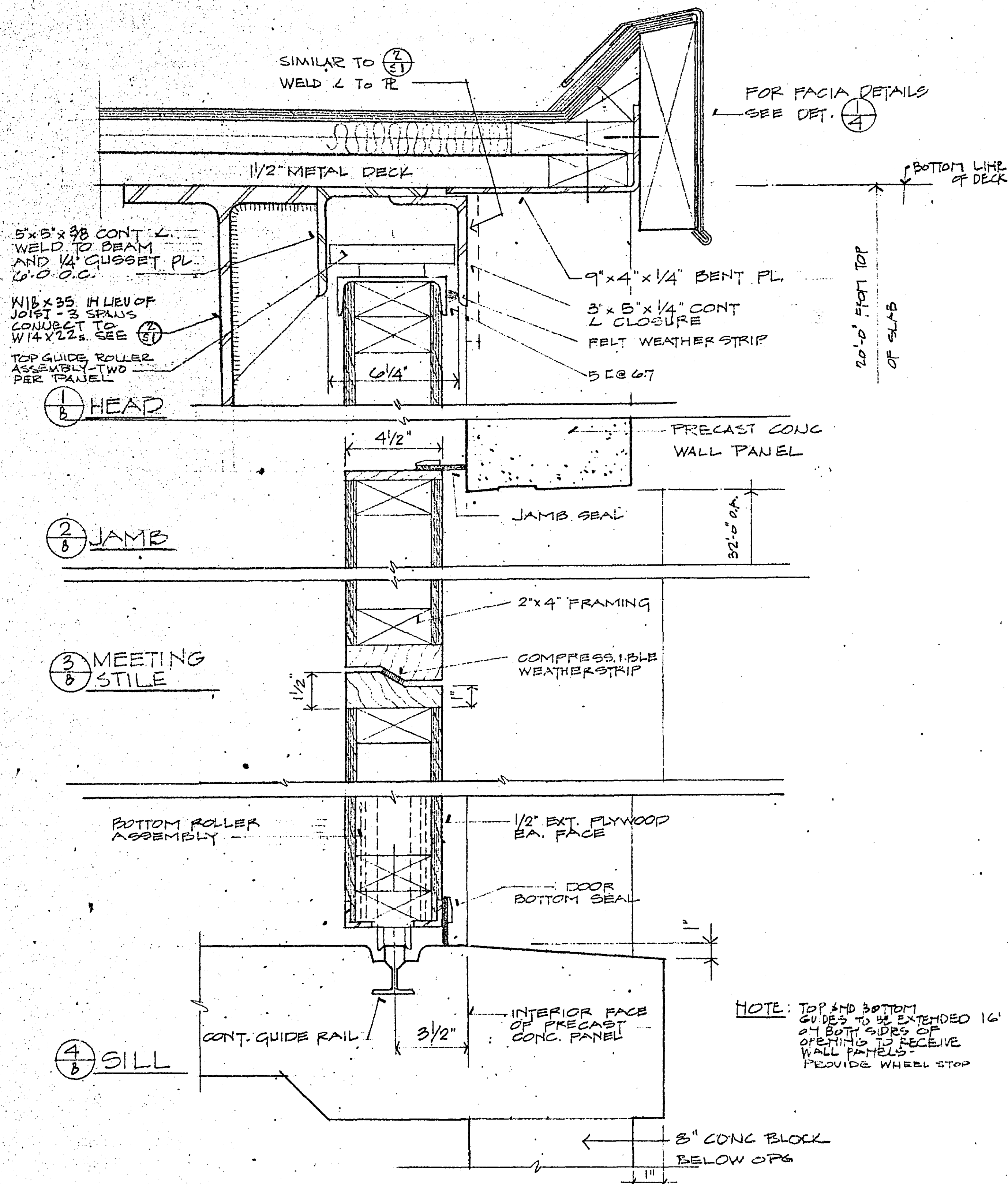


RM 04 MEN
1/4" = 1'-0"



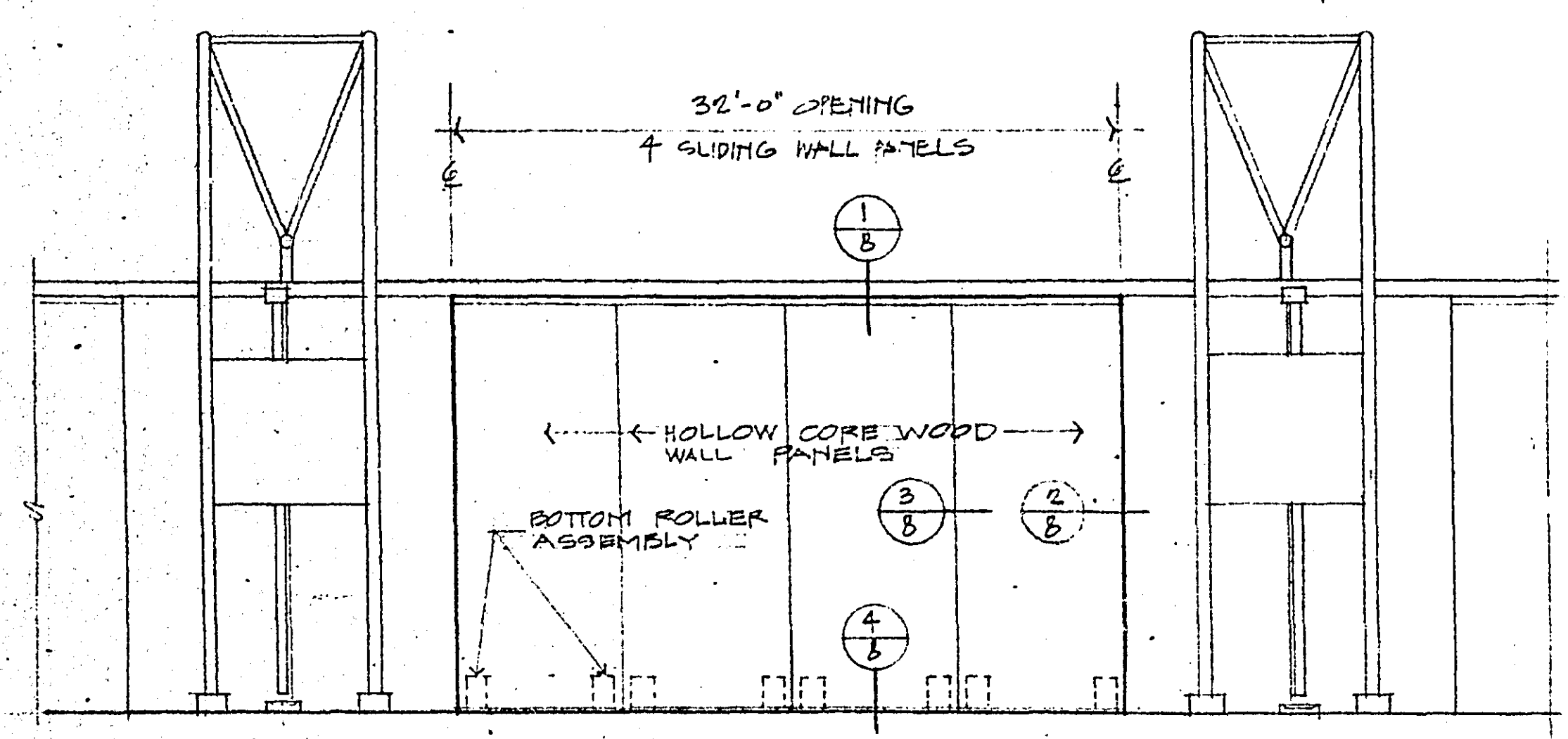
ELEVATIONS
1/4" = 1'-0"

NOTE:
- ALL 8" CONC BLK SHALL BE DBL SCORED BOTH SIDES
- ALL 12" CONC BLK SHALL BE SINGLE OR DBL SCORED AS NOTED



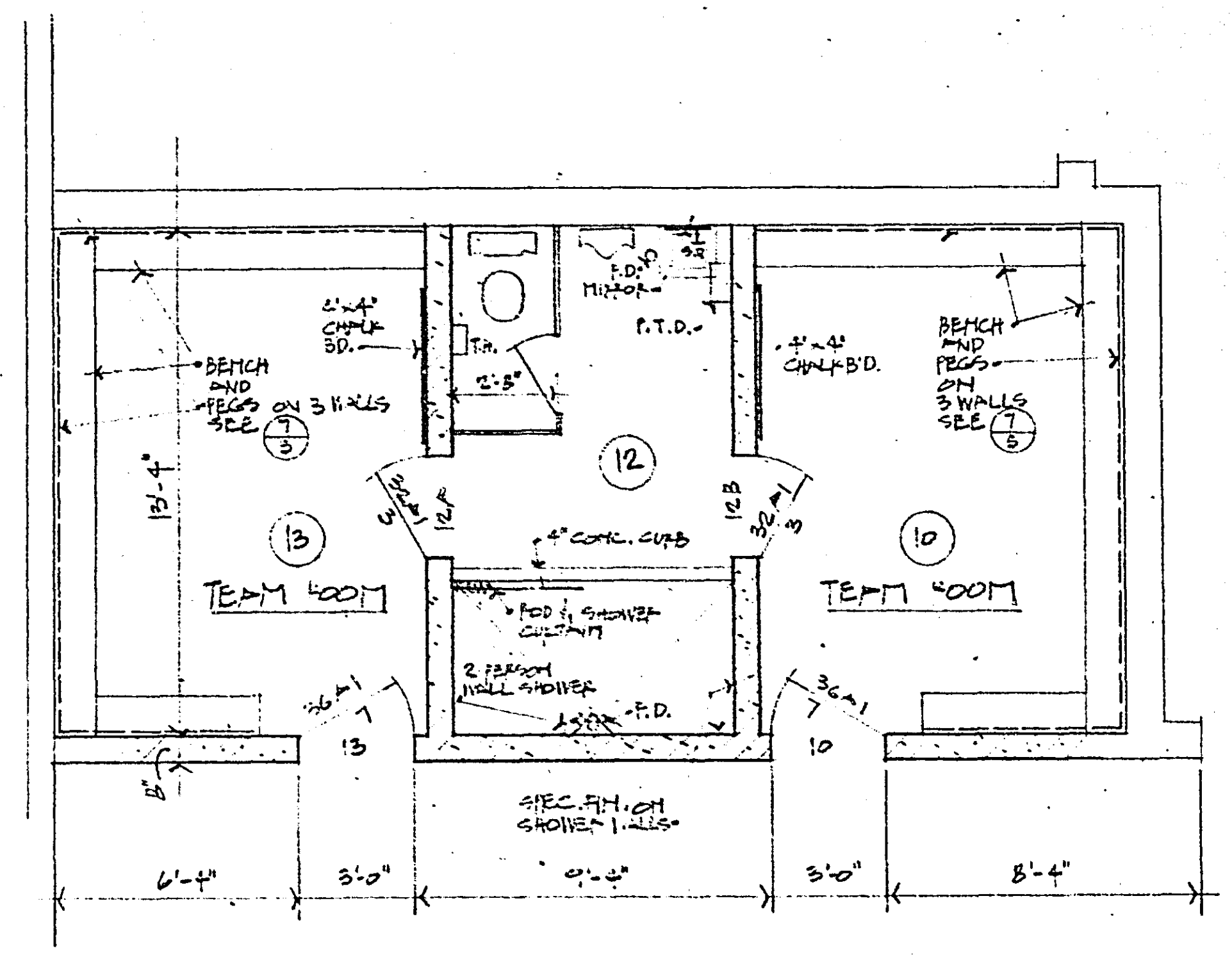
SLIDING PANEL DETAILS

3' = 1'-0"

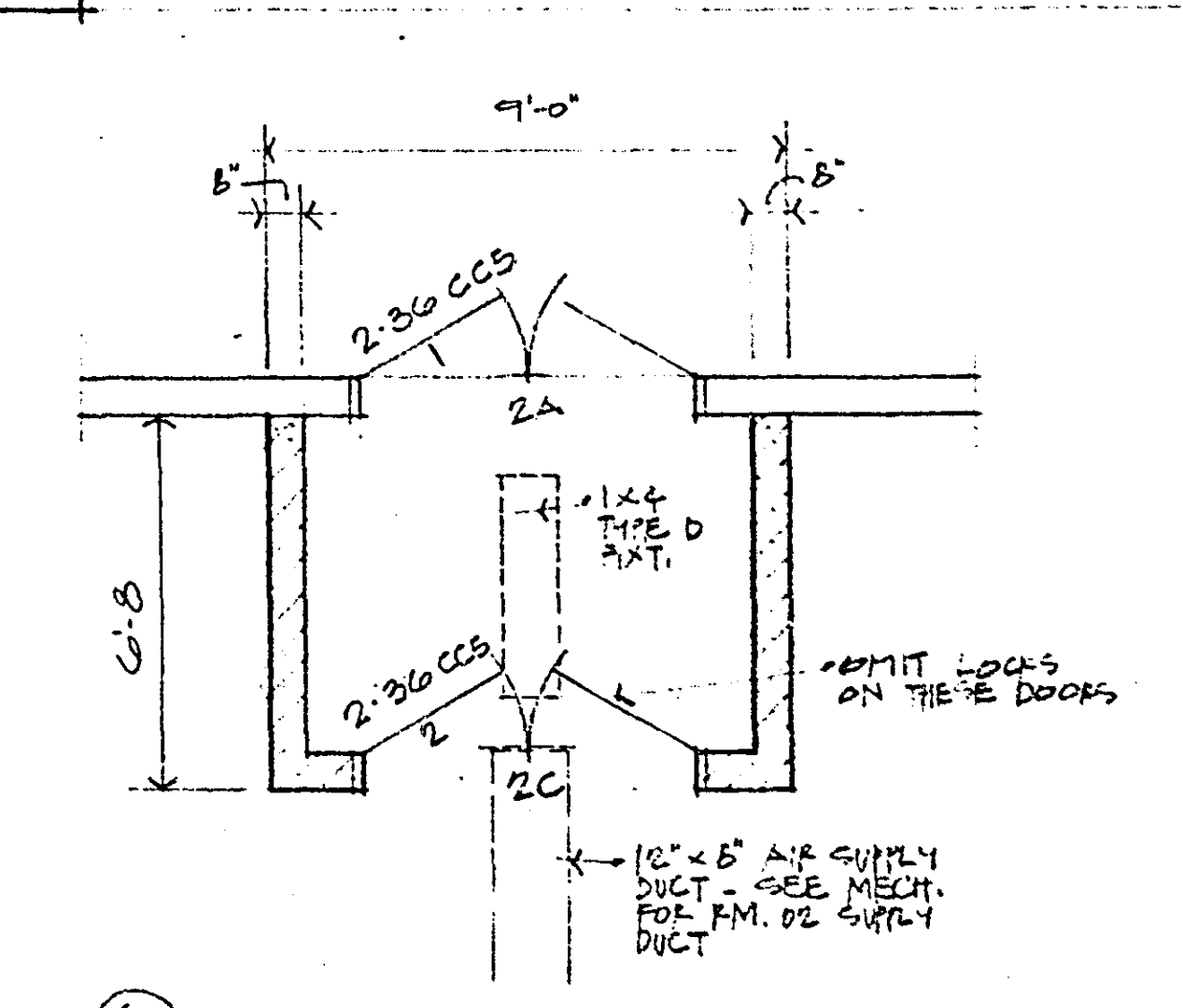


⑤ TYPICAL ELEVATION OF SLIDING PANEL WALL

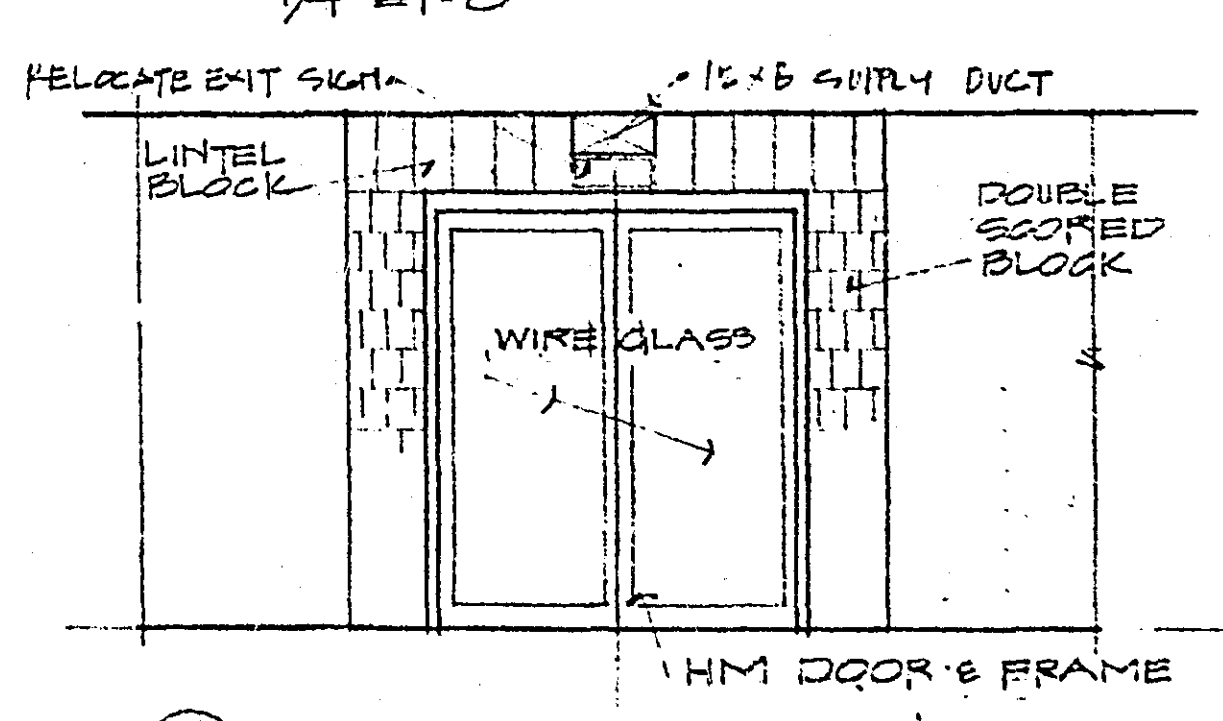
1/8" = 1'-0"
ALTERNATE #2.2



SHOWER ROOM ADDITION TO TEAM ROOMS
ALTERNATE #2.4

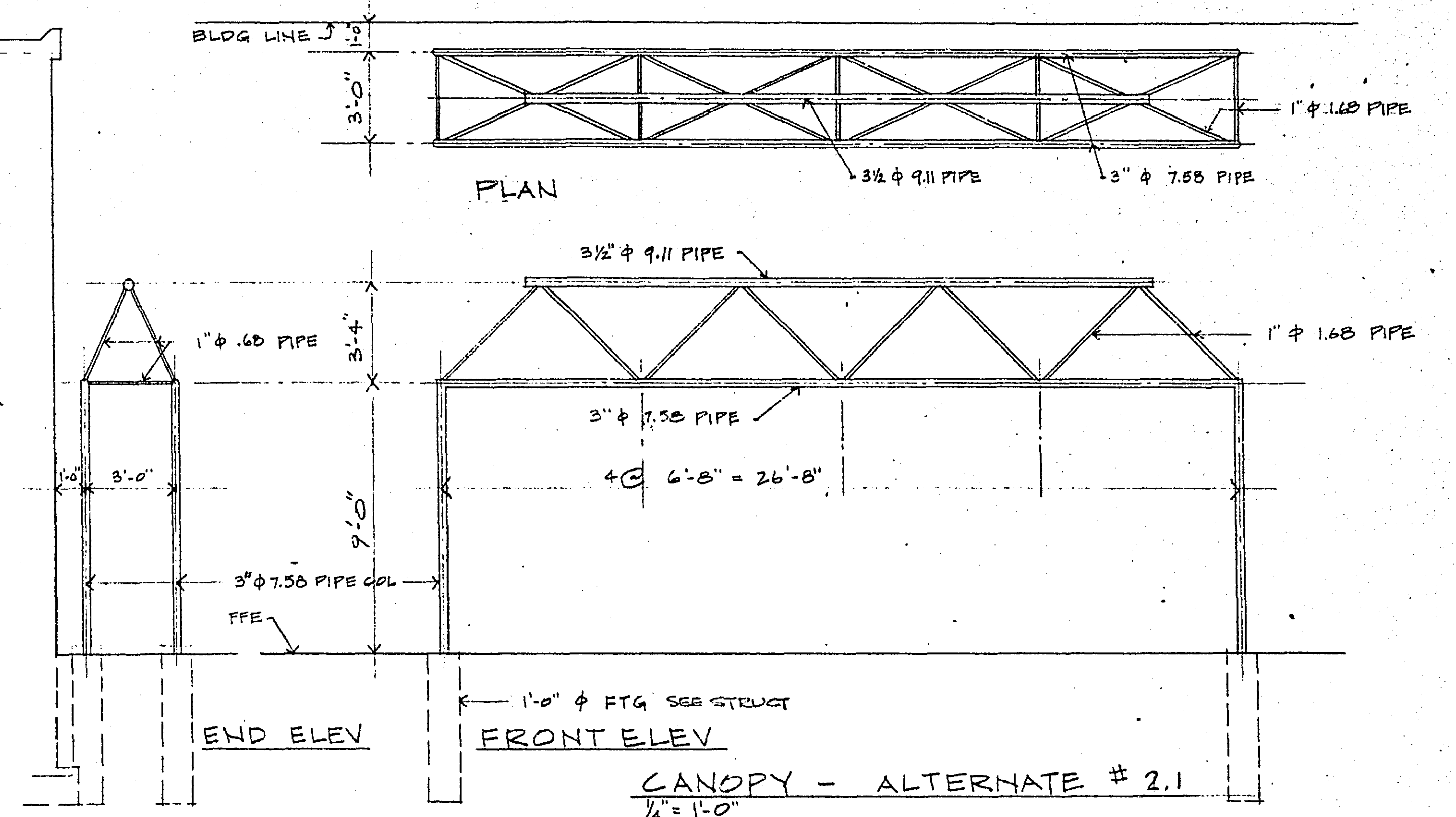


⑥ VESTIBULE PLAN

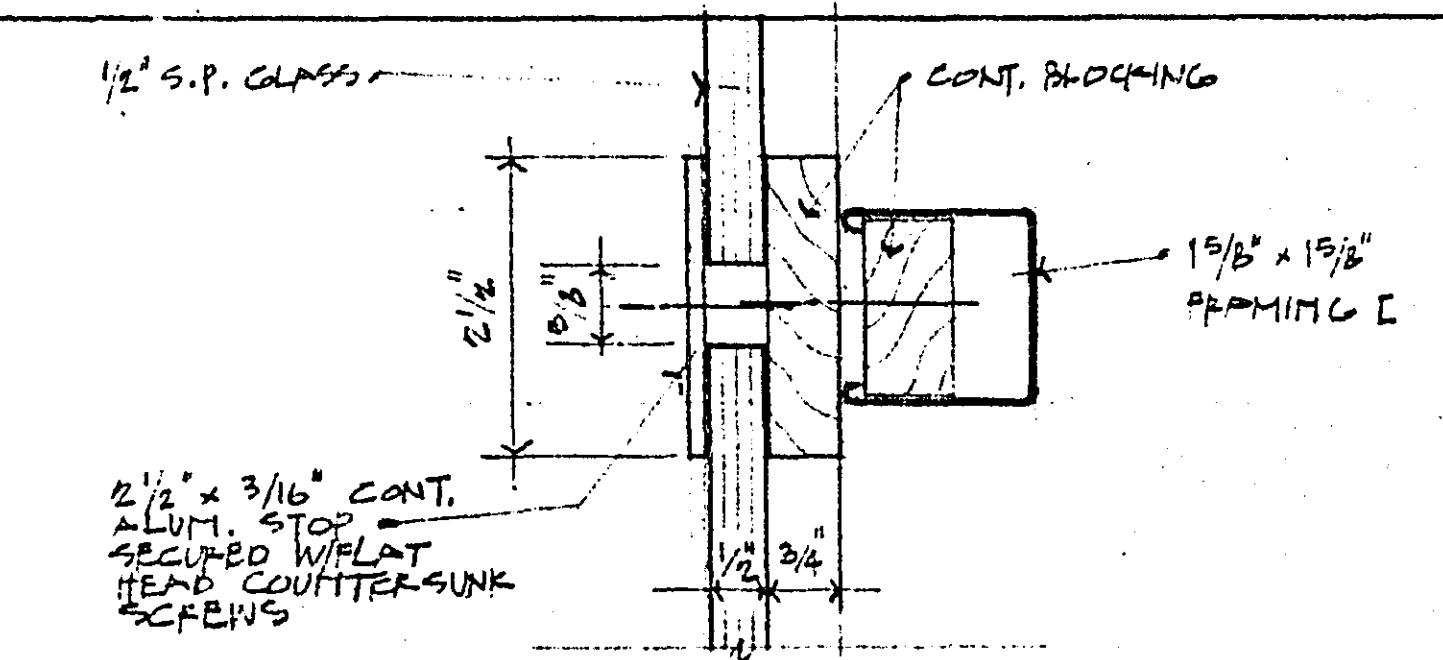


⑦ VESTIBULE ELEVATION

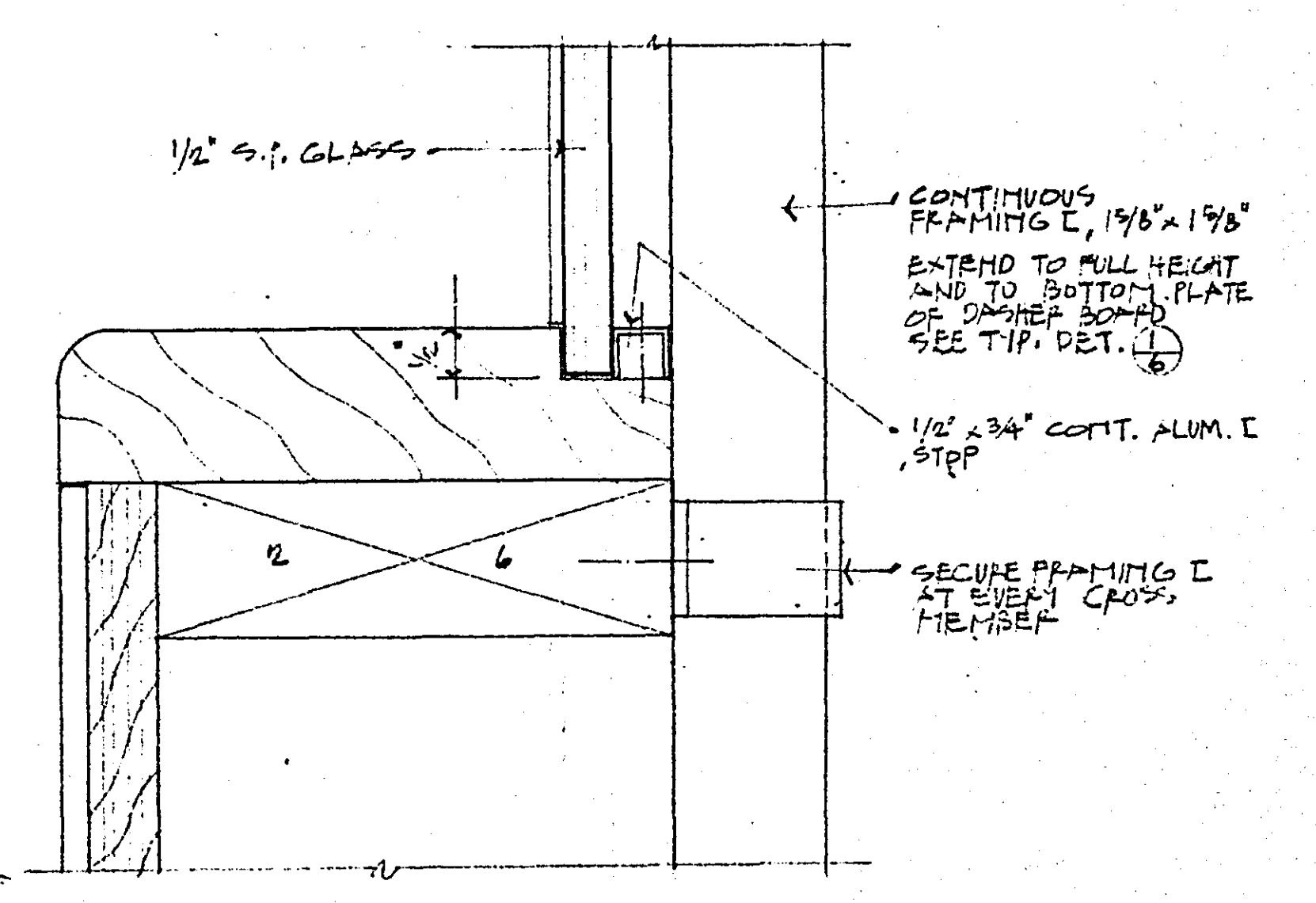
ALTERNATE #2.3



CANOPY - ALTERNATE #2.1
1/4" = 1'-0"



PLAN SECTION
1/2" F.S.



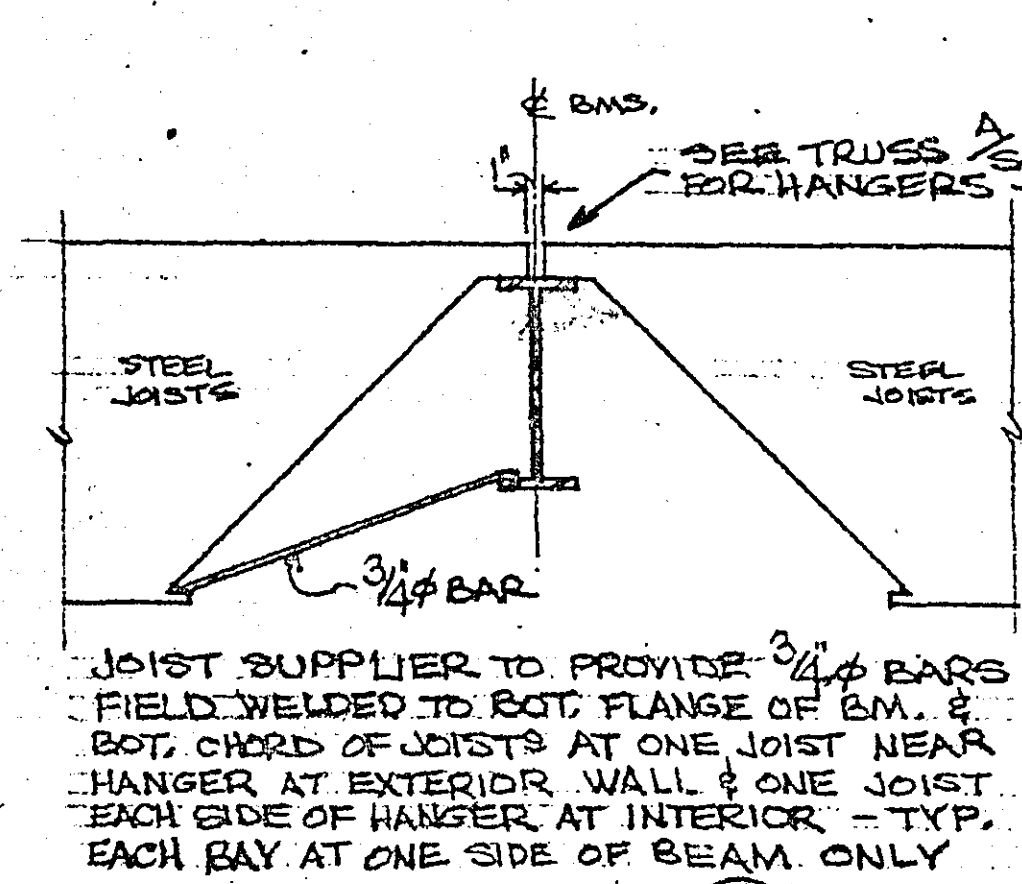
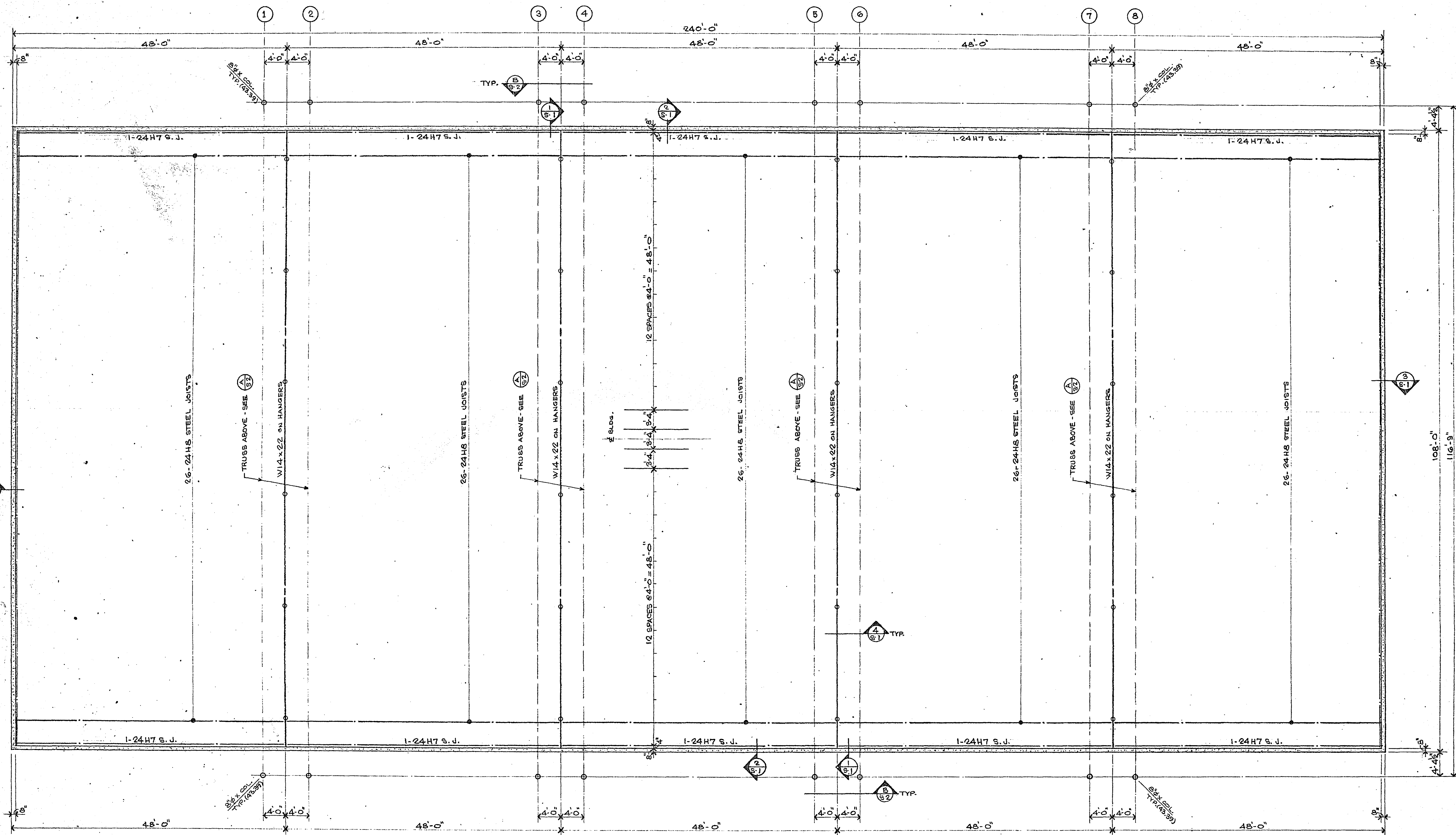
TYP. SECTION @ S.P. GLASS SCREEN
1/2" F.S.

S.P. GLASS DASHER BOARD SCREEN
ALTERNATE #3.3

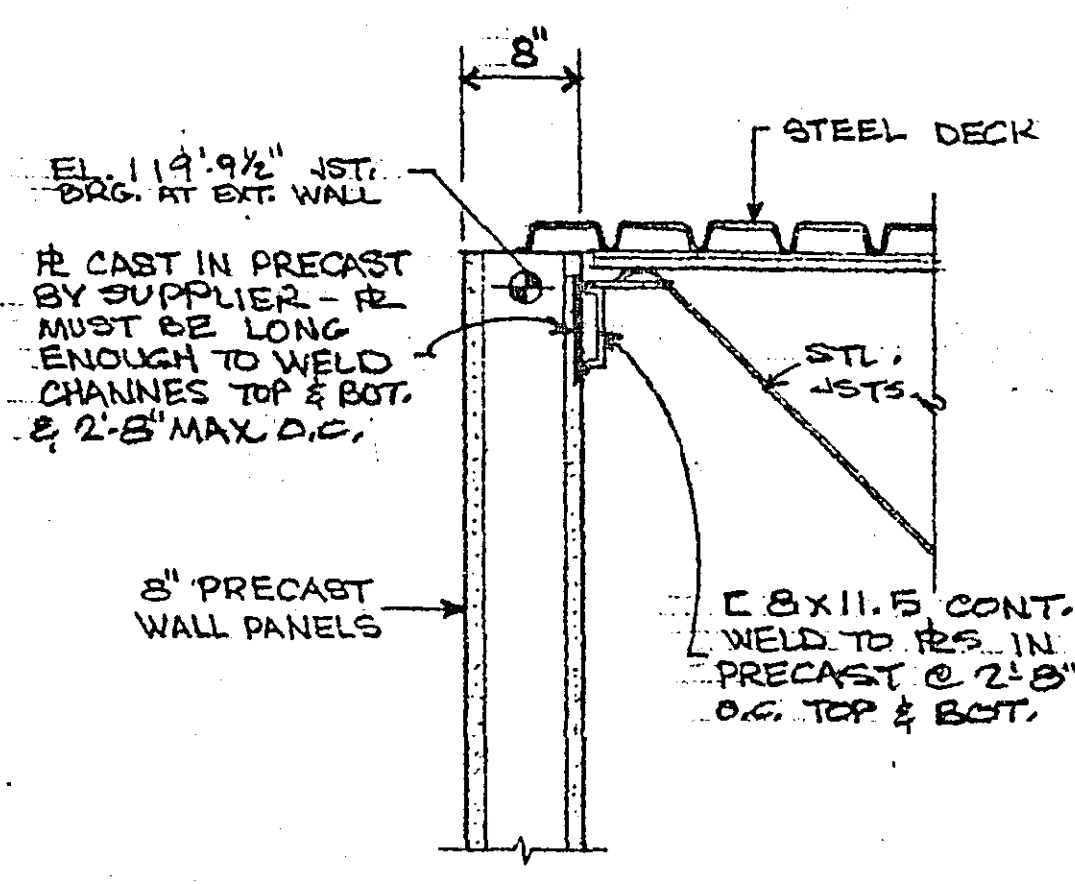
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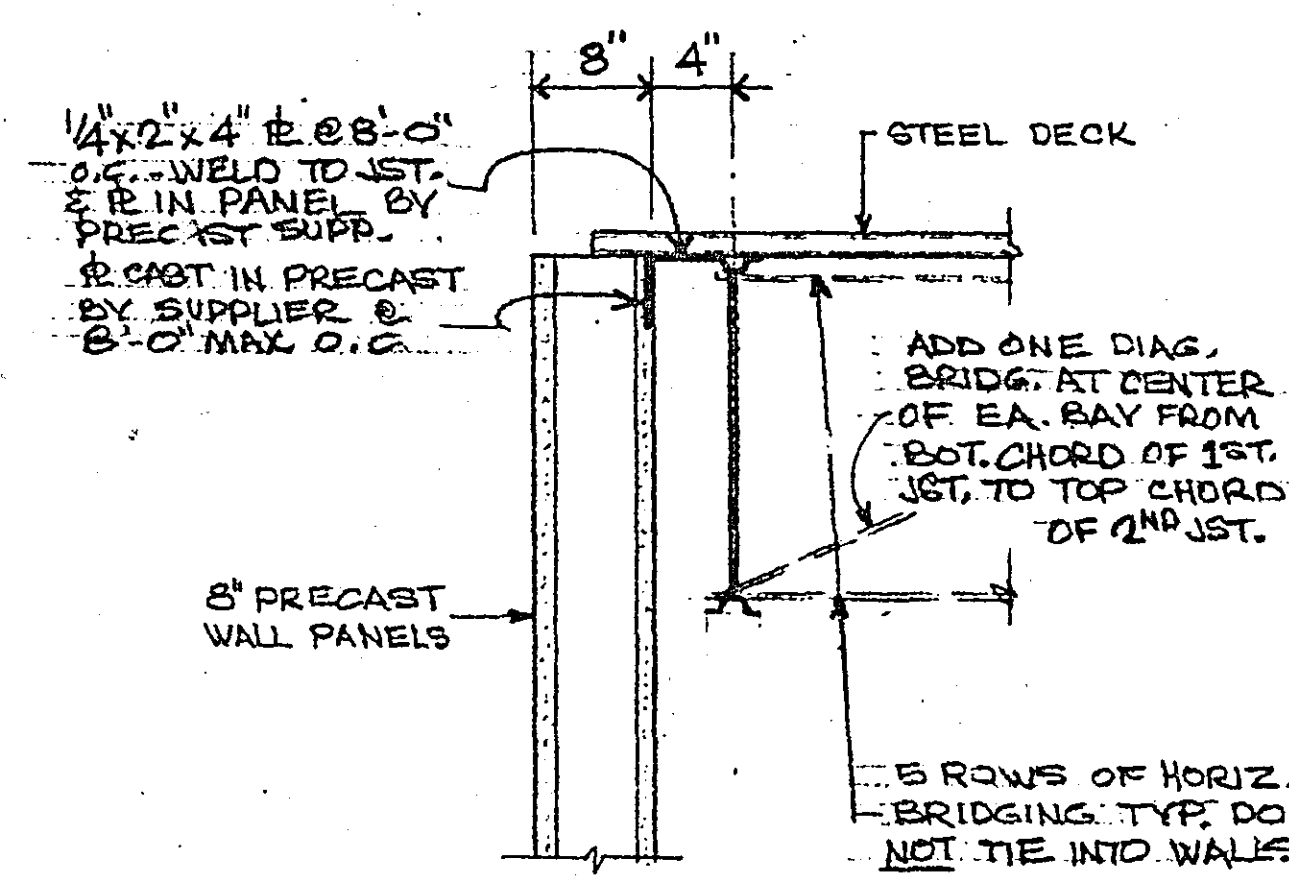
ALTERNATES



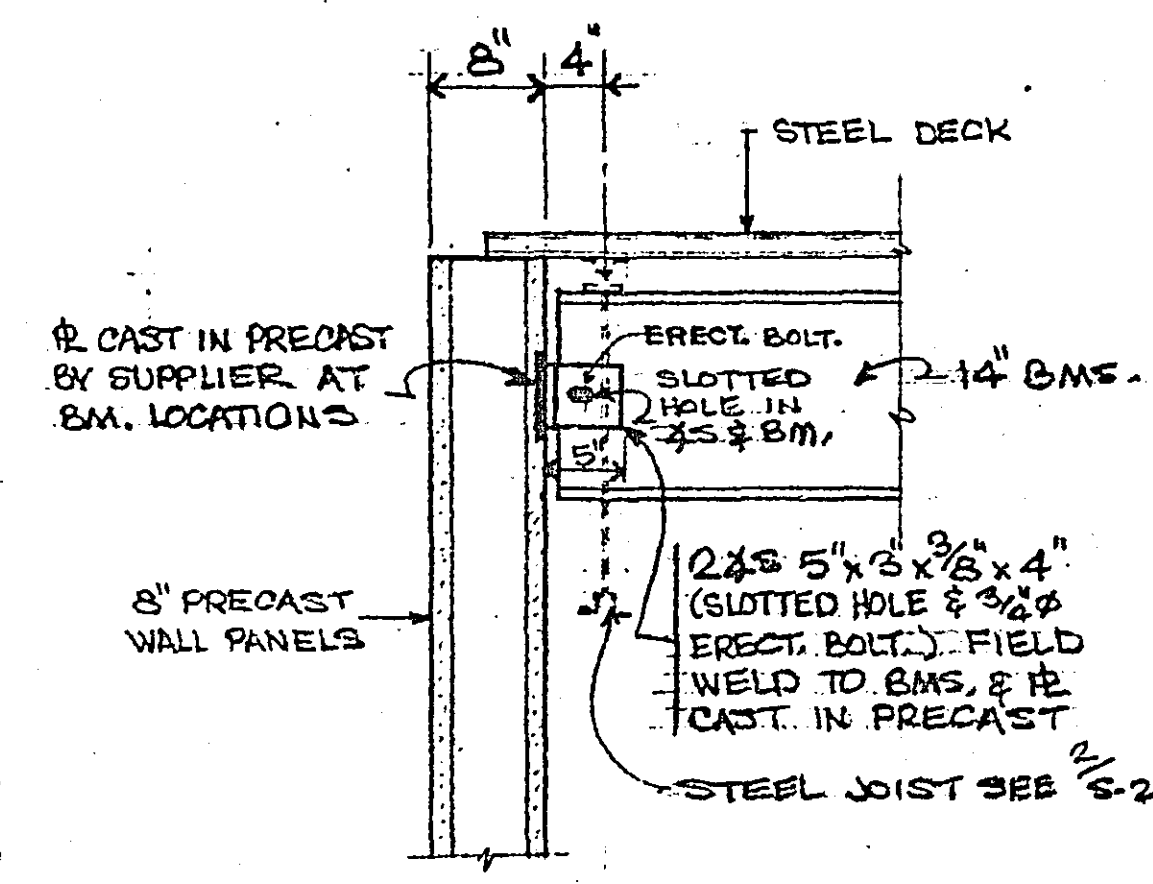
SECTION 1/4-1-0



SECTION 3/4-1-0



SECTION 2/4-1-0



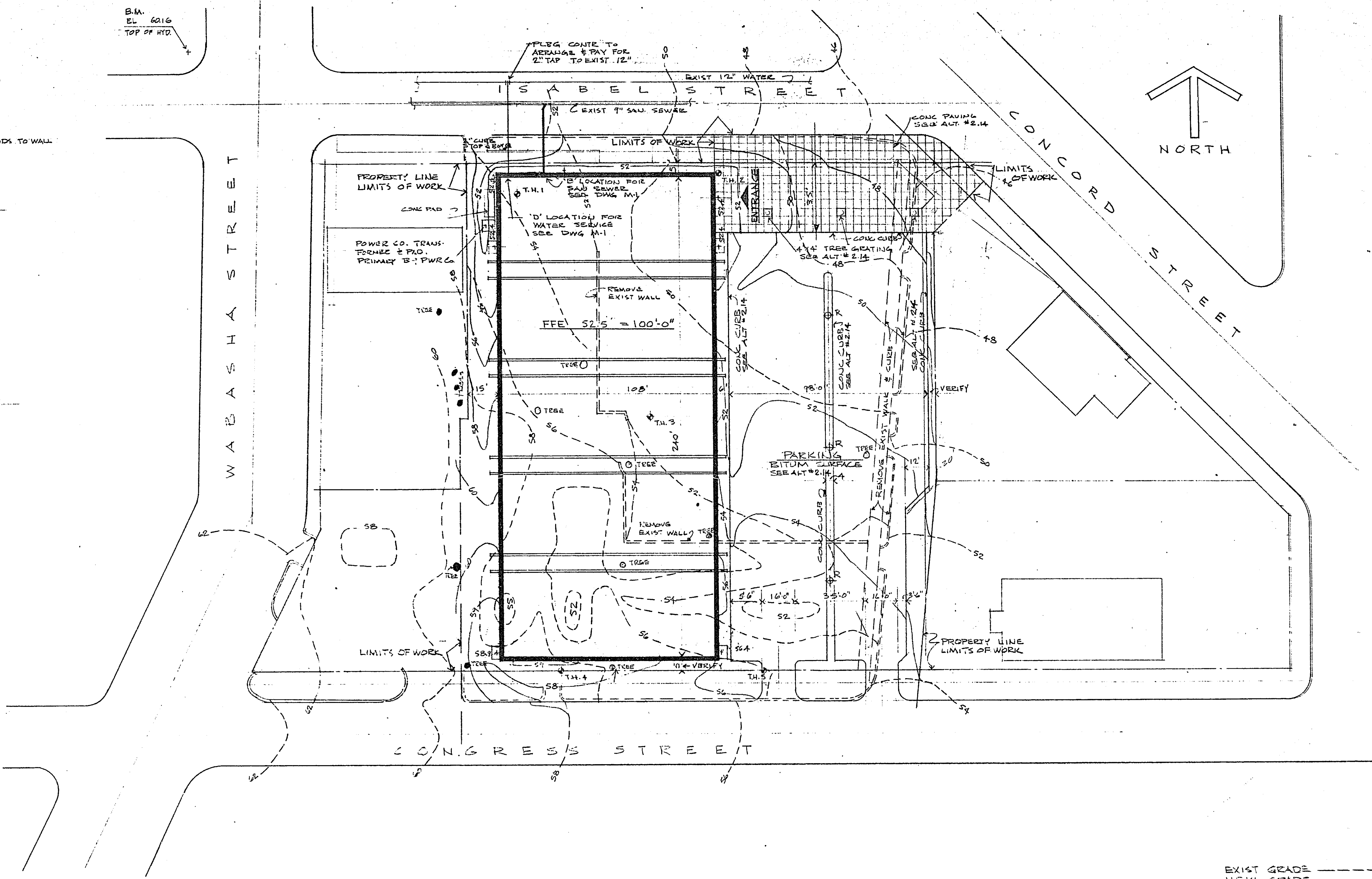
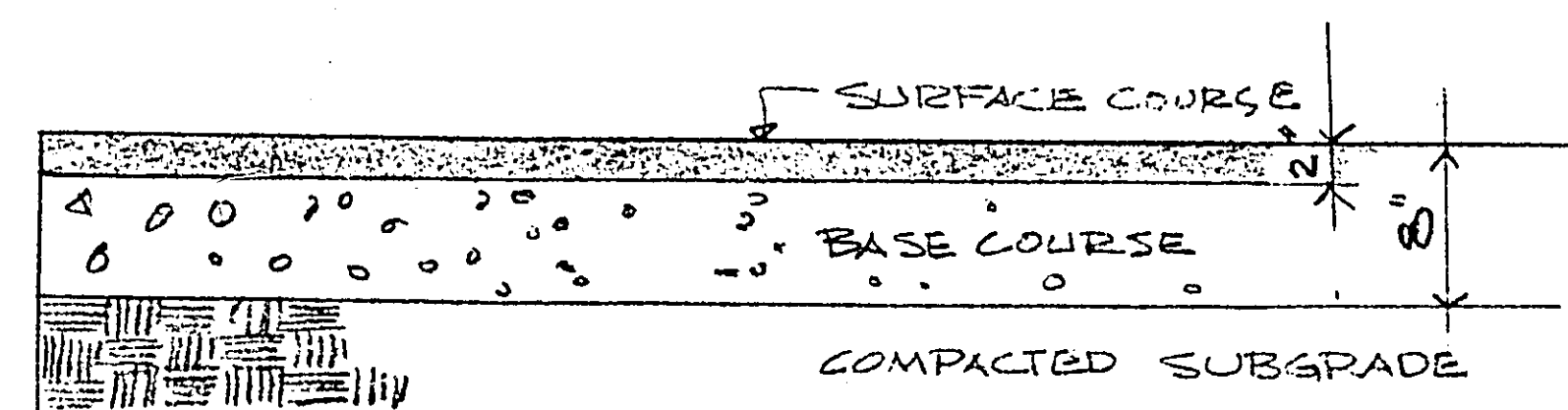
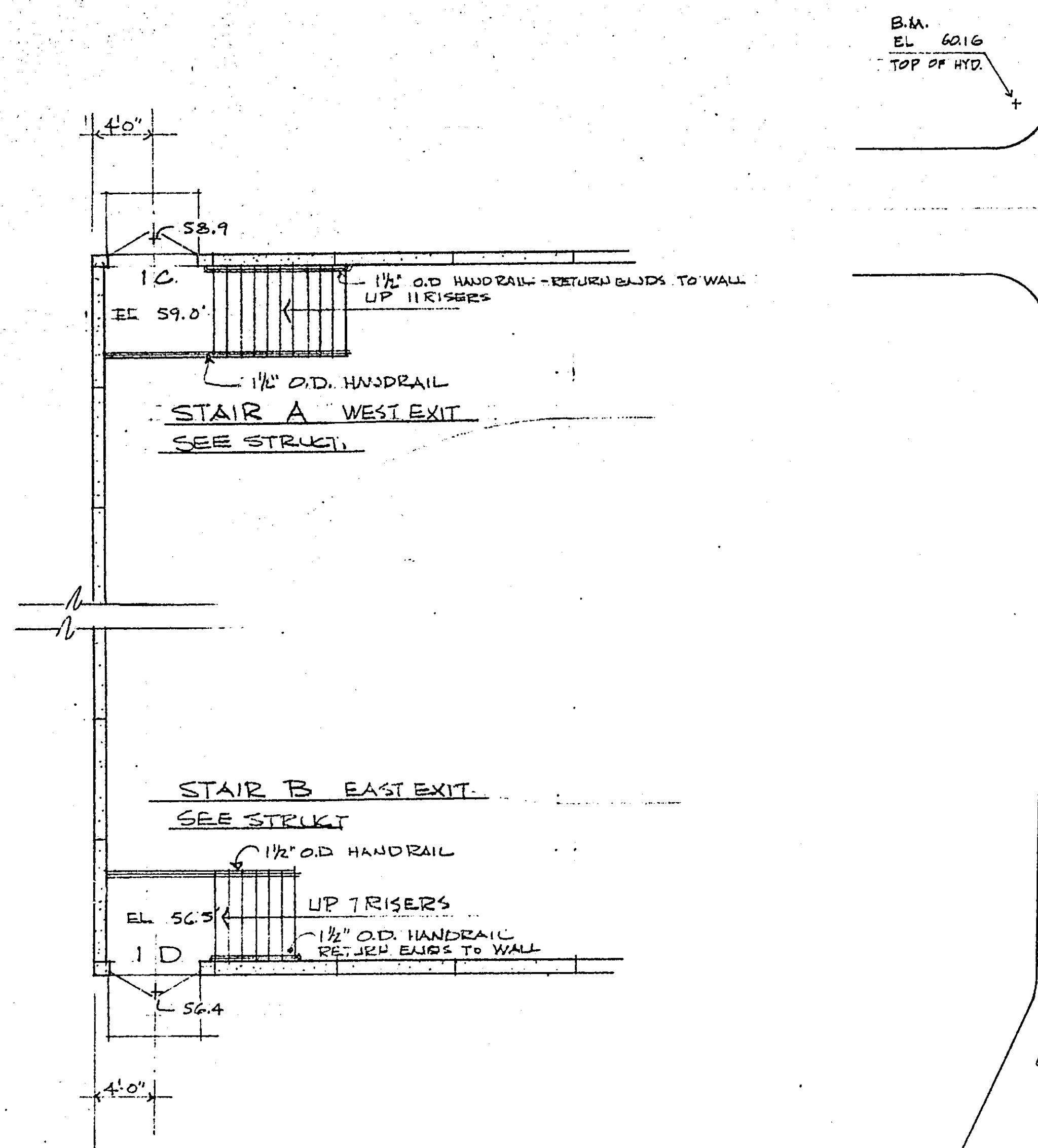
SECTION 1/4-1-0

ROOF FRAMING PLAN

UNLESS OTHERWISE NOTED:
1/2" x 22 GAGE STEEL ROOF DECK WELDED TO SUPPORTING MEMBERS.
FIELD WELD STEEL JOIST TO SUPPORTING MEMBERS.
SEE TRUSS ELEVATION A/S-3 FOR T.O.B. EL. AT JOIST BRG. (SLOPES)

MICROFILMED
PANSEY CO. ENGR.

66-116



SITE PLAN
1" = 30'

NOTE:
The property line and utility information contained on this drawing has been extracted from a boundary survey drawing dated April 9, 1971, prepared by Warren I. Forsberg. Additional topographic and property line information will be issued as a revision to this drawing.
The Architect makes no warranty, express or implied, that the information is accurate or that conditions at the site have not changed since the survey drawing was prepared. The survey drawings will be on file in the office of the Architect and may be examined upon request.

NOTE:
The property line, utility and topographic information contained on this drawing has been extracted from a boundary survey drawing dated April 9, 1971, prepared by Warren I. Forsberg and a survey drawing dated April 6, 1972, prepared by Ramsey County Engineers' Department.
The Architect makes no warranty, express or implied, that the information is accurate or that conditions at the site have not changed since the survey drawing was prepared.
The site drawing will be on file in the office of the Architect and may be examined upon request.

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RAMSEY CO. ENGR.

66-116

CONGRESS/ISABEL SITE - DISTRICT 43A

Team 70 Architects
St Paul Building
Saint Paul 55102

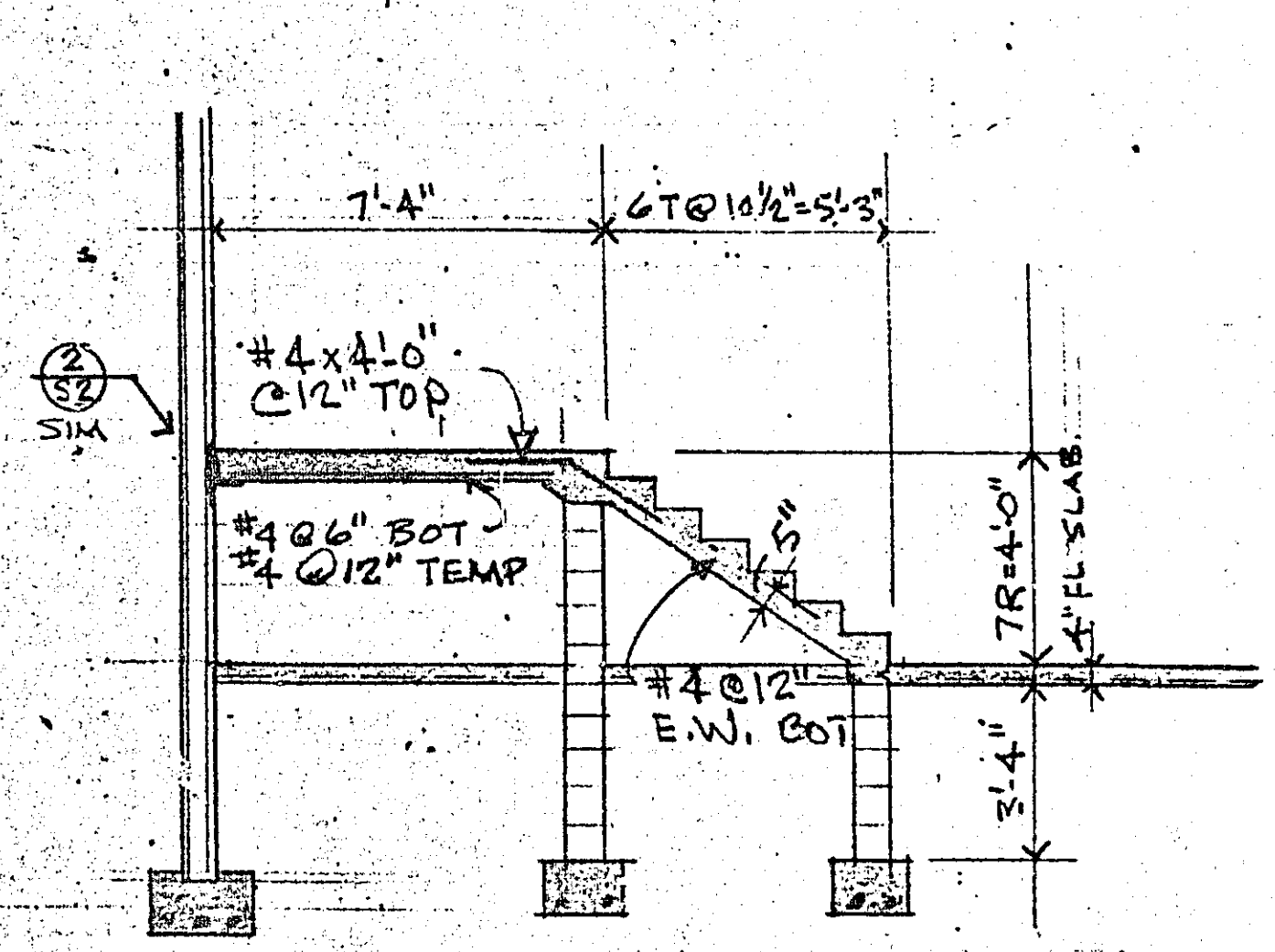
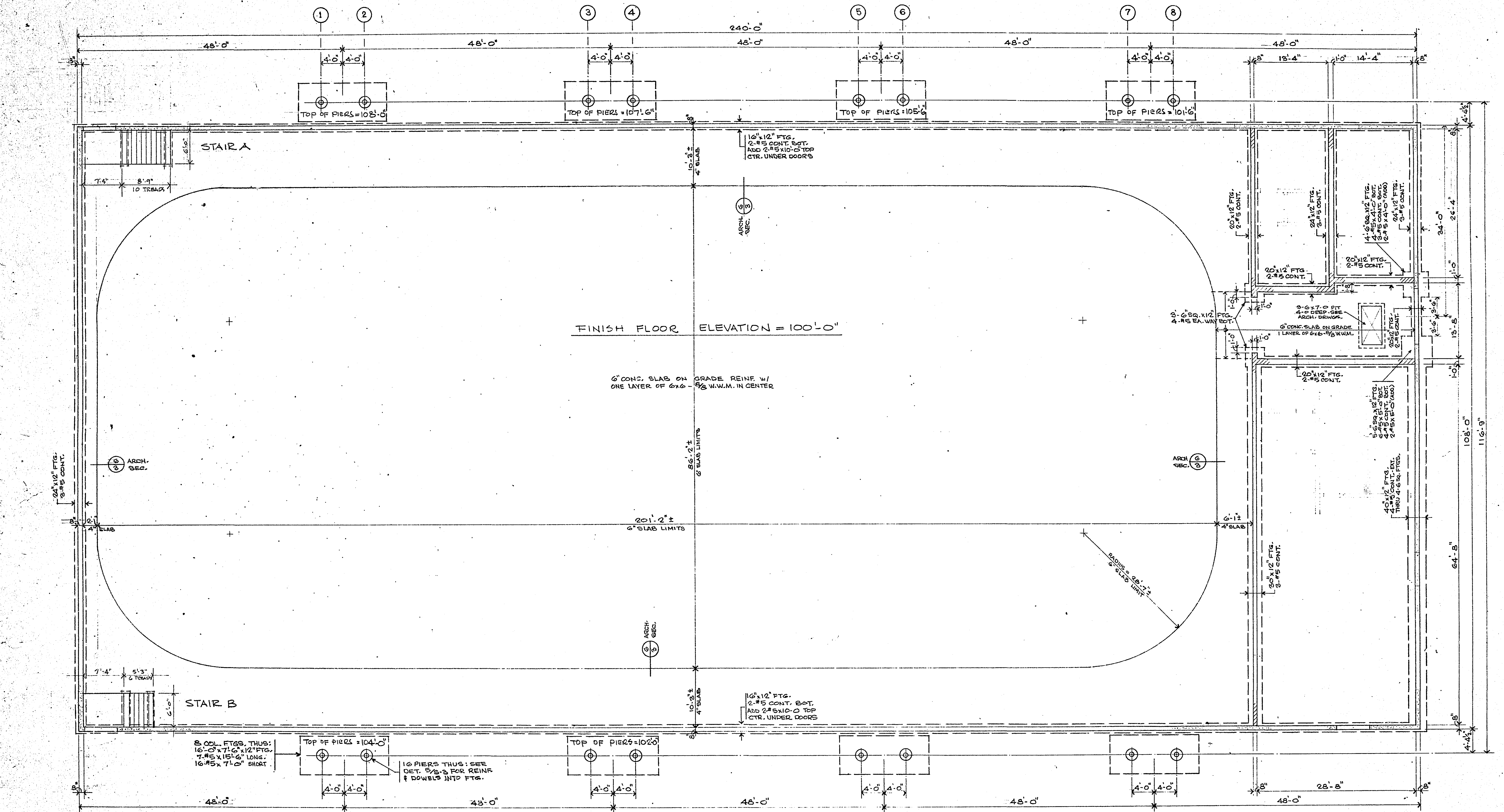
27 MARKET 1974

CONGRESS/ISABEL SITE

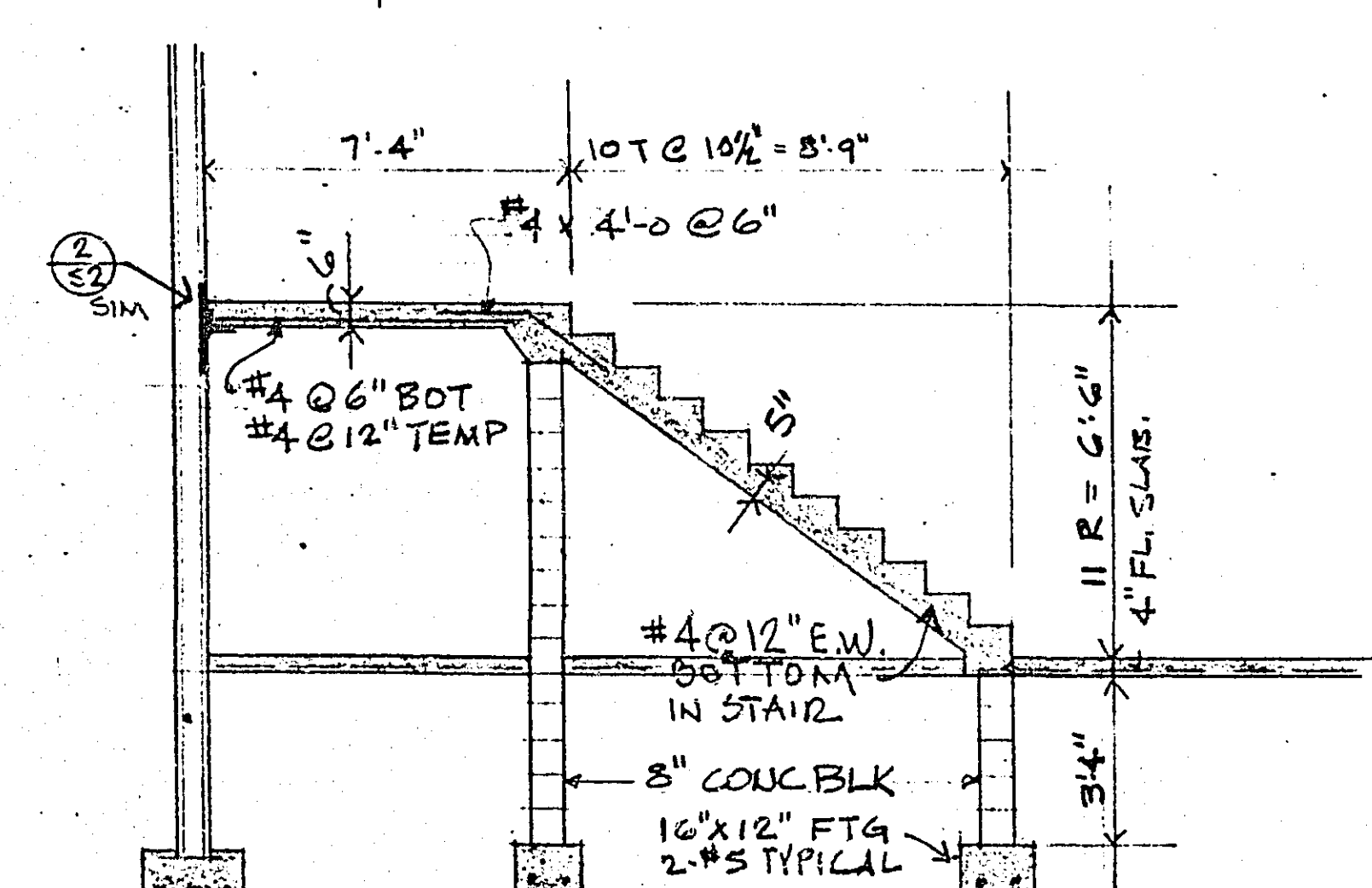
Ramsey County Ice Arena Program

4-12-72
REVISION 1

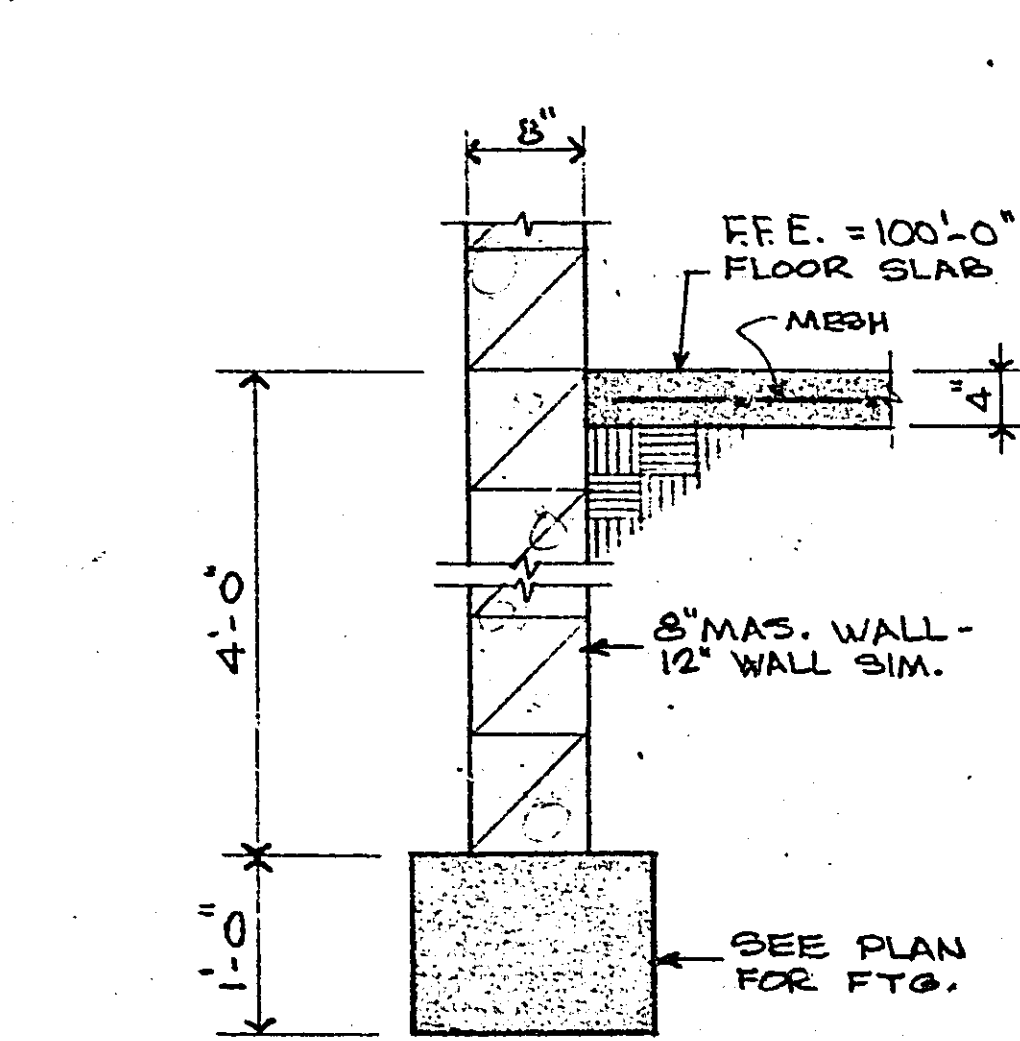
11



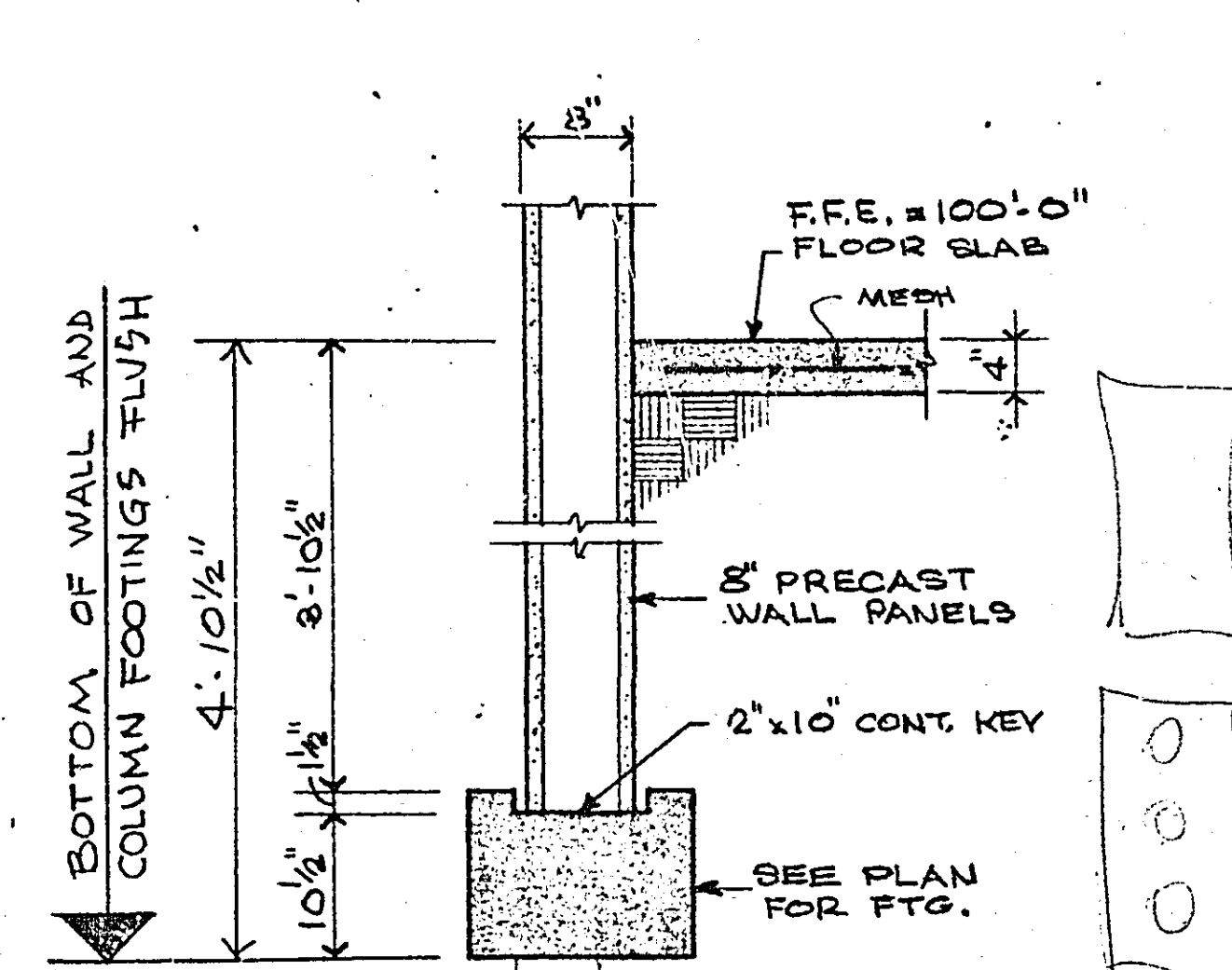
EAST EXIT SECTION
STAIR B



WEST EXIT SECTION
STAIR A



TYP. INTER. WALL AT MEZZ.



TYP. EXTERIOR WALL

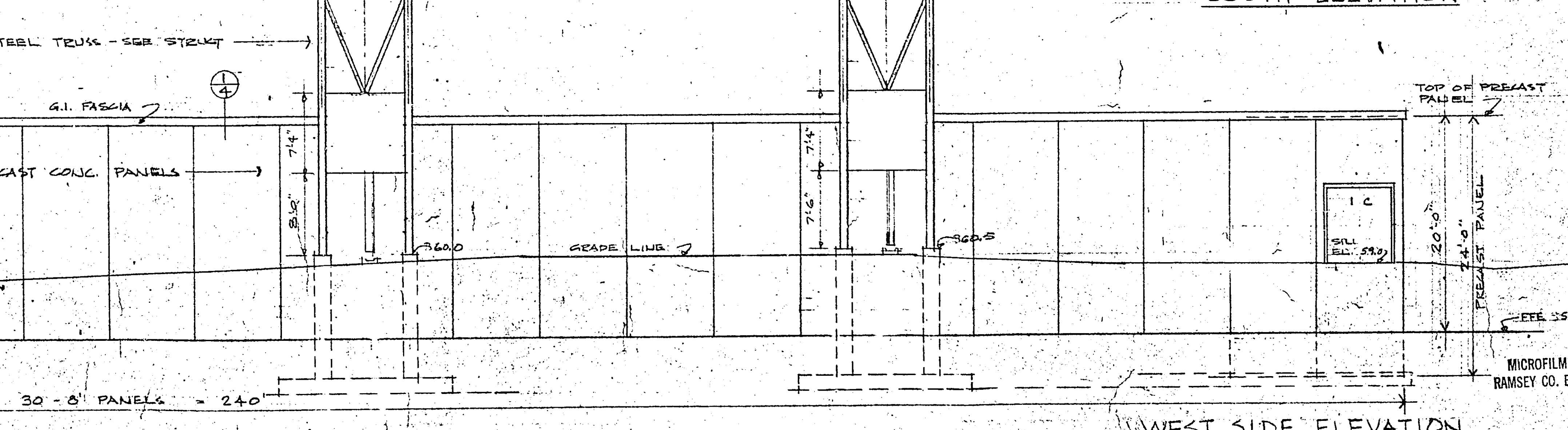
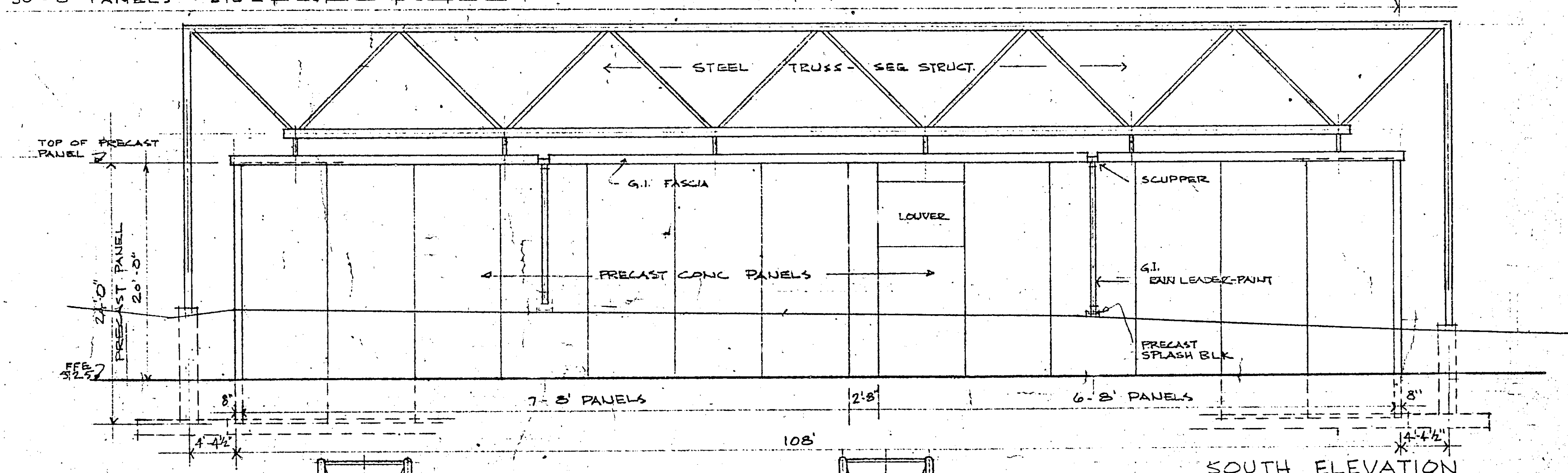
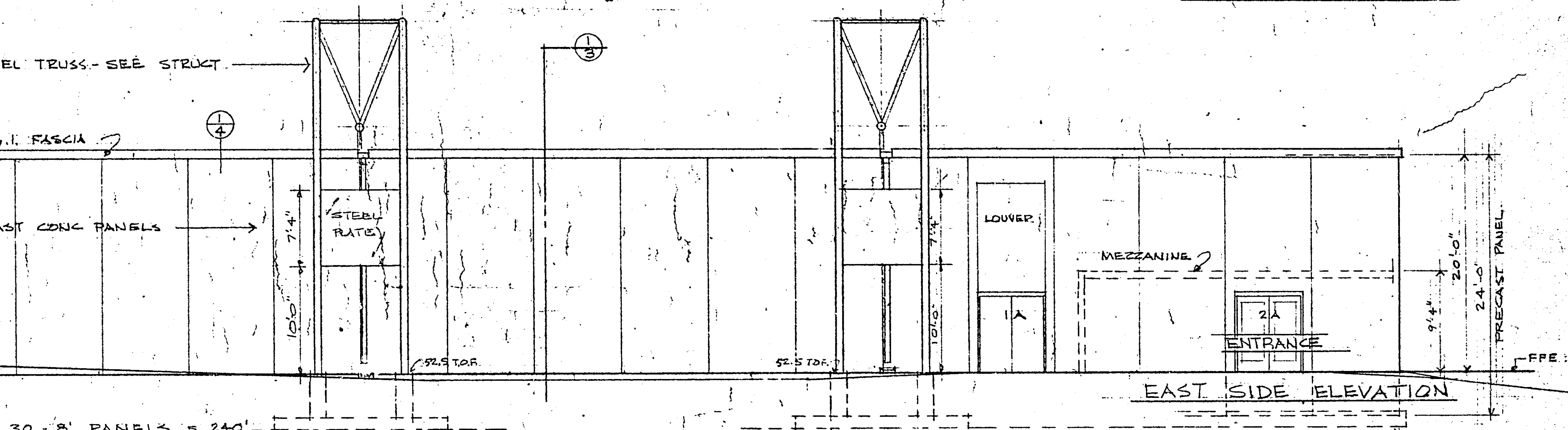
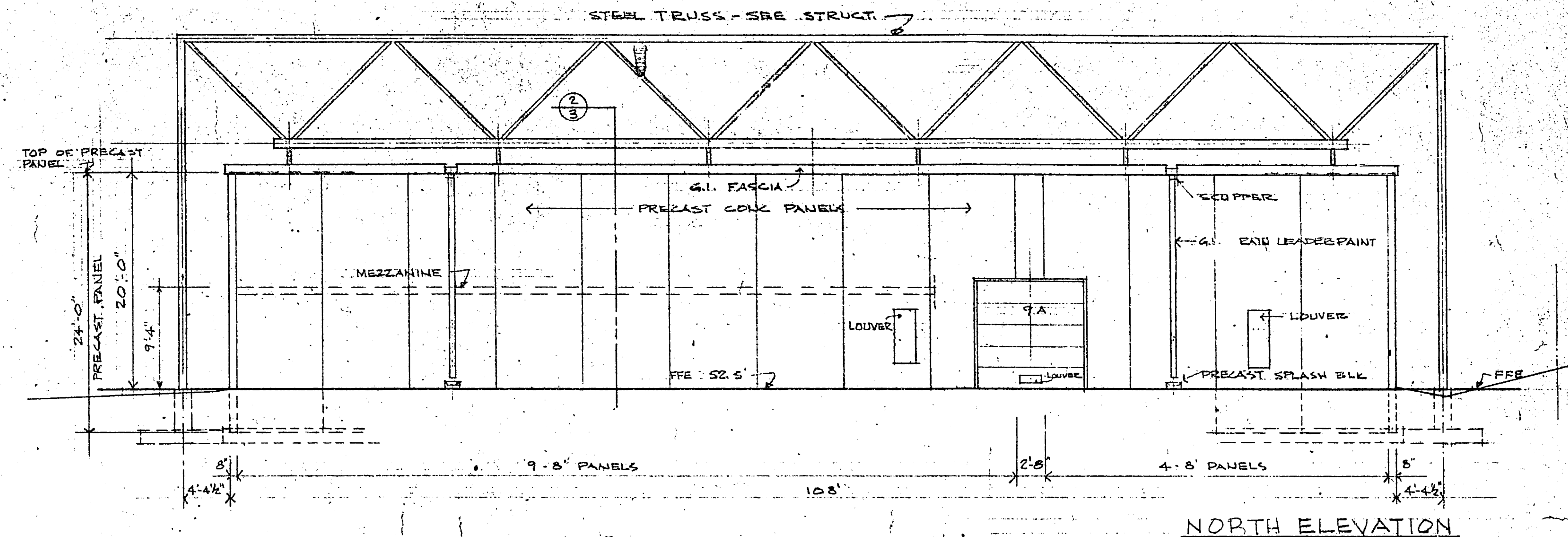
FOUNDATION & FLOOR PLAN 1/8" = 1'-0"
UNLESS OTHERWISE NOTED:
4" CONC. SLAB ON GRADE REINF. W/ 1 LAYER OF 6x6-10/10 W.W.M. IN CENTER.
TOP OF COLUMN PIER FLUSH W/ F.F.E.
SOIL BEARING DESIGN VALUE = 1500 PSF

FOOTINGS
WALL FOOTINGS ARE CONTINUOUS POURED CONCRETE WITH CONTINUOUS REINFORCING PLACED 3" CLEAR BOTTOM AND SIDES LAPPING 24 DIA. AT SPLICES AND FULL CROSSING LAP AT CORNERS AND INTERSECTIONS. UNLESS OTHERWISE NOTED, WALL FOOTINGS ARE CENTERED UNDER WALLS AND COLUMN FOOTINGS ARE CENTERED UNDER COLUMNS.

F.F.E. 100'-0" = DATUM (EL. 92'-6")

MICROFILMED
RAMSEY CO. ENGR.

CONGRESS/ISABEL SITE - DISTRICT 43A

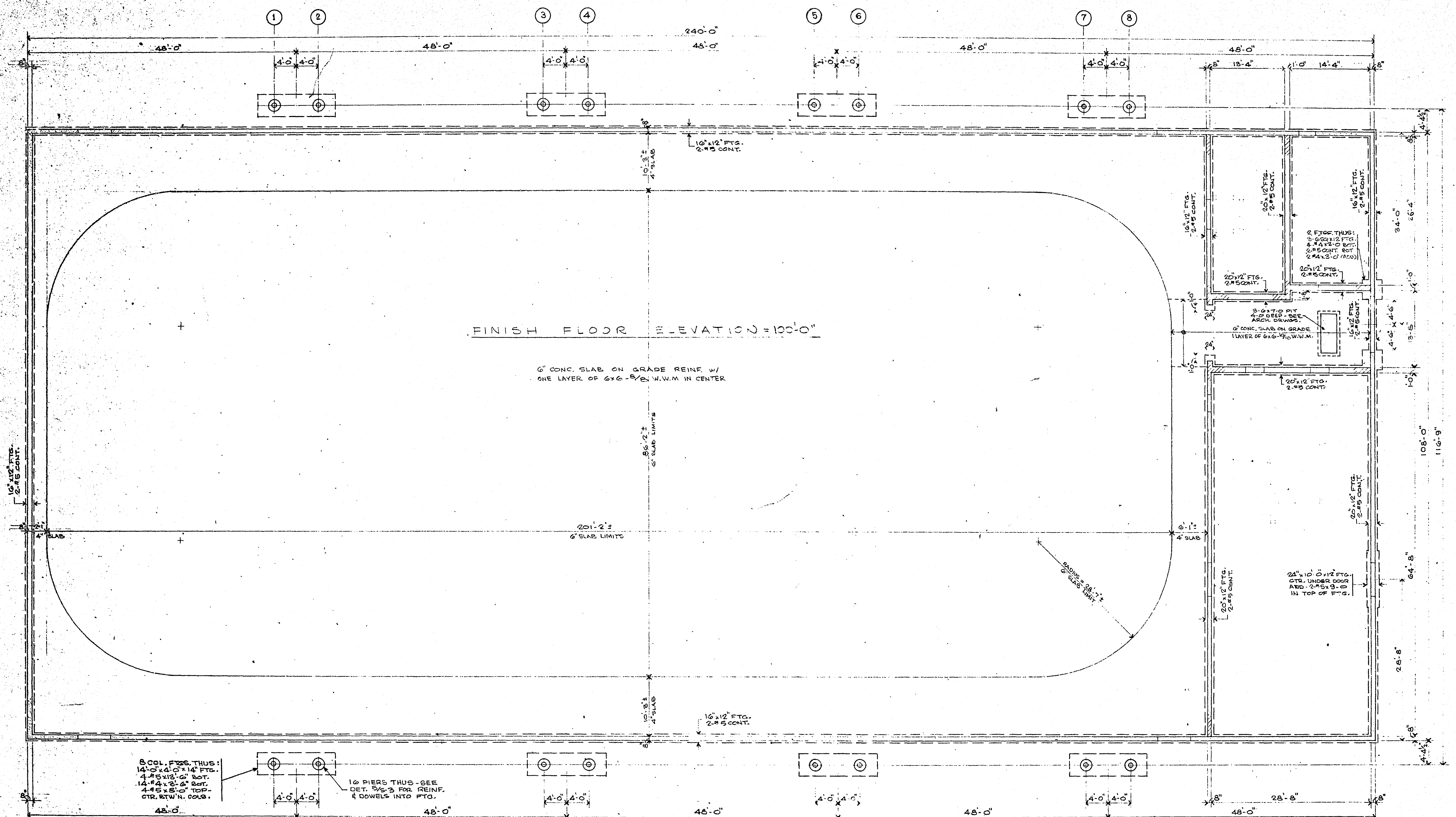


NOTE:
 SEE SHIT 2 FOR DETAILS
 & EXTERIOR LIGHTING

REV 1 - REVISED GRADOS
 4-12-72

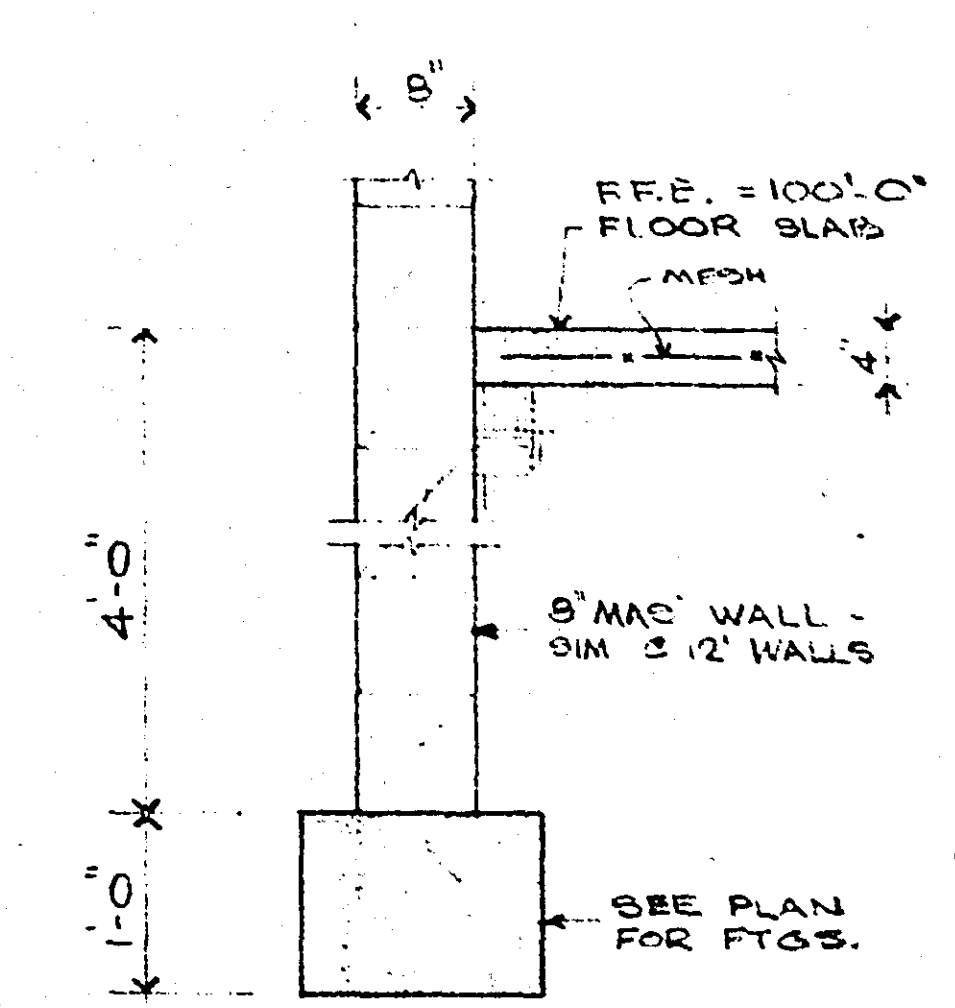
CONGRESS/ISABEL SITE - DISTRICT 13A

66-116

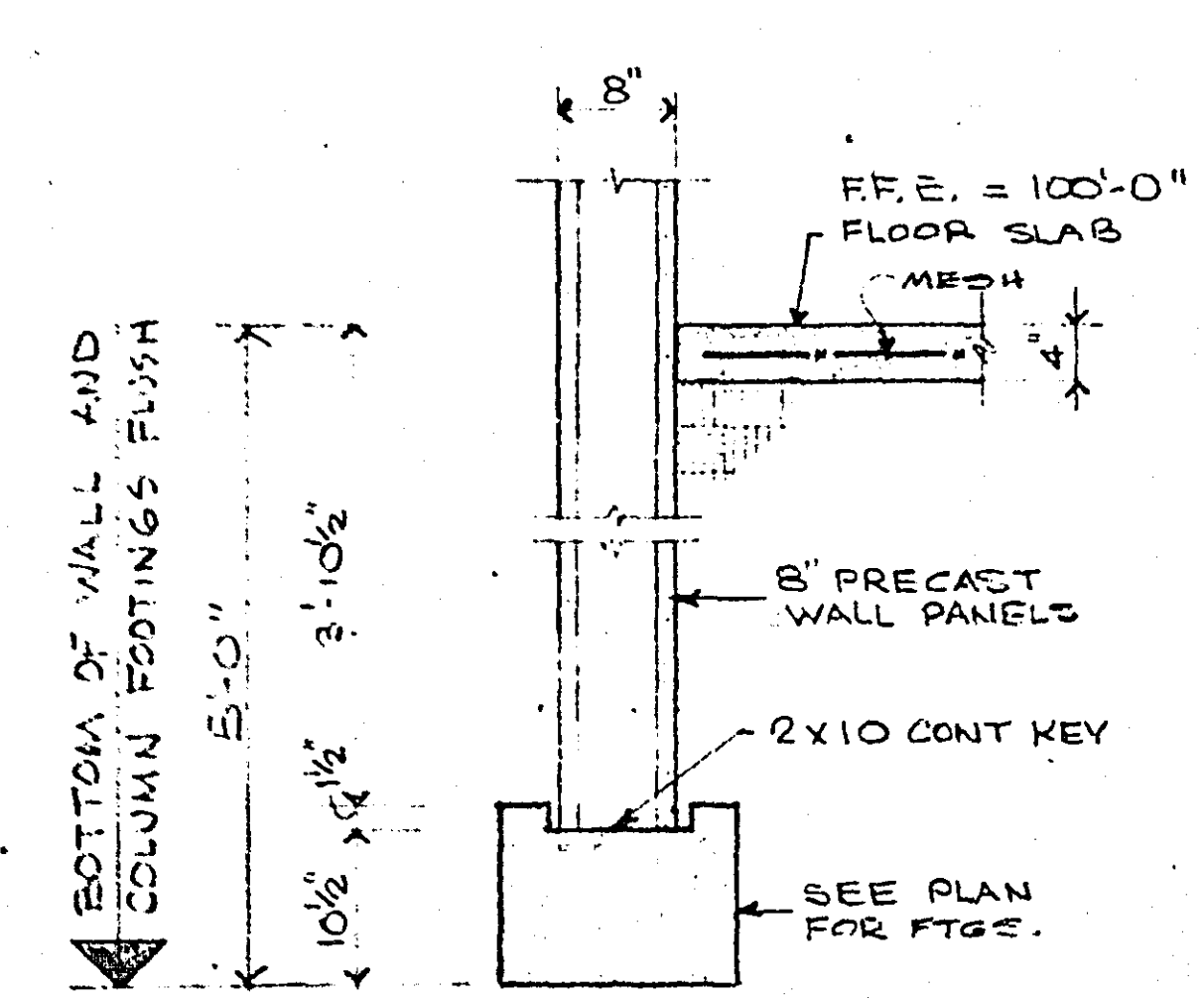


8 COL. FTS. THUS:
14'-0" x 4'-0" x 14" F.T.G.
4'-5" x 13'-0" 6" BOT.
14'-4" x 3'-0" 6" BOT.
4'-5" x 8'-0" TOP-
CTR. BTWN. COLS.

16 PIERS THUS-SEE
DET. 5/8-3 FOR REINF.
& DOWELS INTO F.T.G.



TYP. INTER. WALL AT MEZZ.



TYP. EXTERIOR WALL

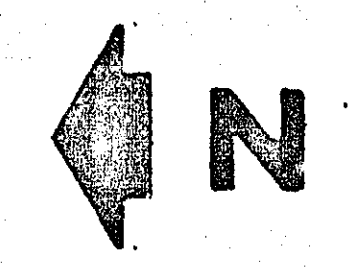
FOUNDATION & FLOOR PLAN 1/8" = 1'-0"

UNLESS OTHERWISE NOTED:
4" CONC. SLAB ON GRADE REINF. W/ 1 LAYER OF 6x6-10/10 W.W.M. IN CENTER

SOIL BEARING DESIGN VALUE = 3000 PSF

FOOTINGS
WALL FOOTINGS ARE CONTINUOUS POURED CONCRETE WITH CONTINUOUS REINFORCING PLACED 2" CLEAR BOTTOM AND SIDES, LAPPING 24" DIA AT SPLICES AND FULL CROSSING LAP AT CORNERS AND INTERSECTIONS, UNLESS OTHERWISE NOTED. WALL FOOTINGS ARE CENTERED UNDER WALLS AND COLUMN FOOTINGS ARE CENTERED UNDER COLUMNS.

F.F.E. 100'-0" = DATUM EL. TO FOLLOW



MICROFILMED
RAMSEY CO. ENGR.

66-116

HIGHLAND PARK SITE - DISTRICT 47A

Team 70 Architects
St Paul Building
Saint Paul 55102

RAMSEY COUNTY ICE ARENA PROGRAM
STRUCTURAL ENGINEERS 224 9469
4815 WEST 35TH STREET
MINNEAPOLIS, MINN. 55416
TELEPHONE 612-920-9393

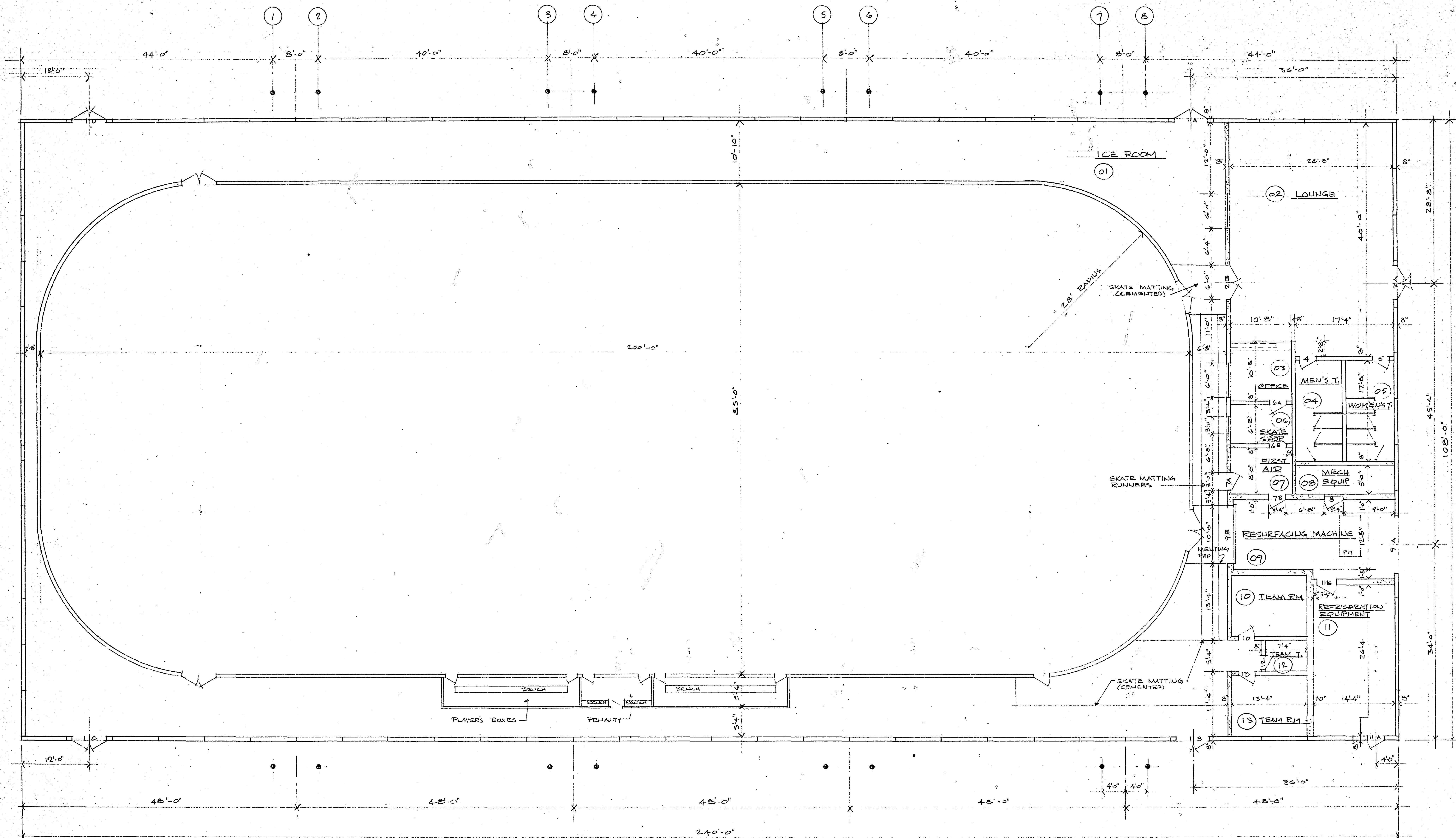
27 MAR 24 1972

HIGHLAND PARK SITE

Ramsey County Ice Arena Program

S 15

10&K NO. 7174



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

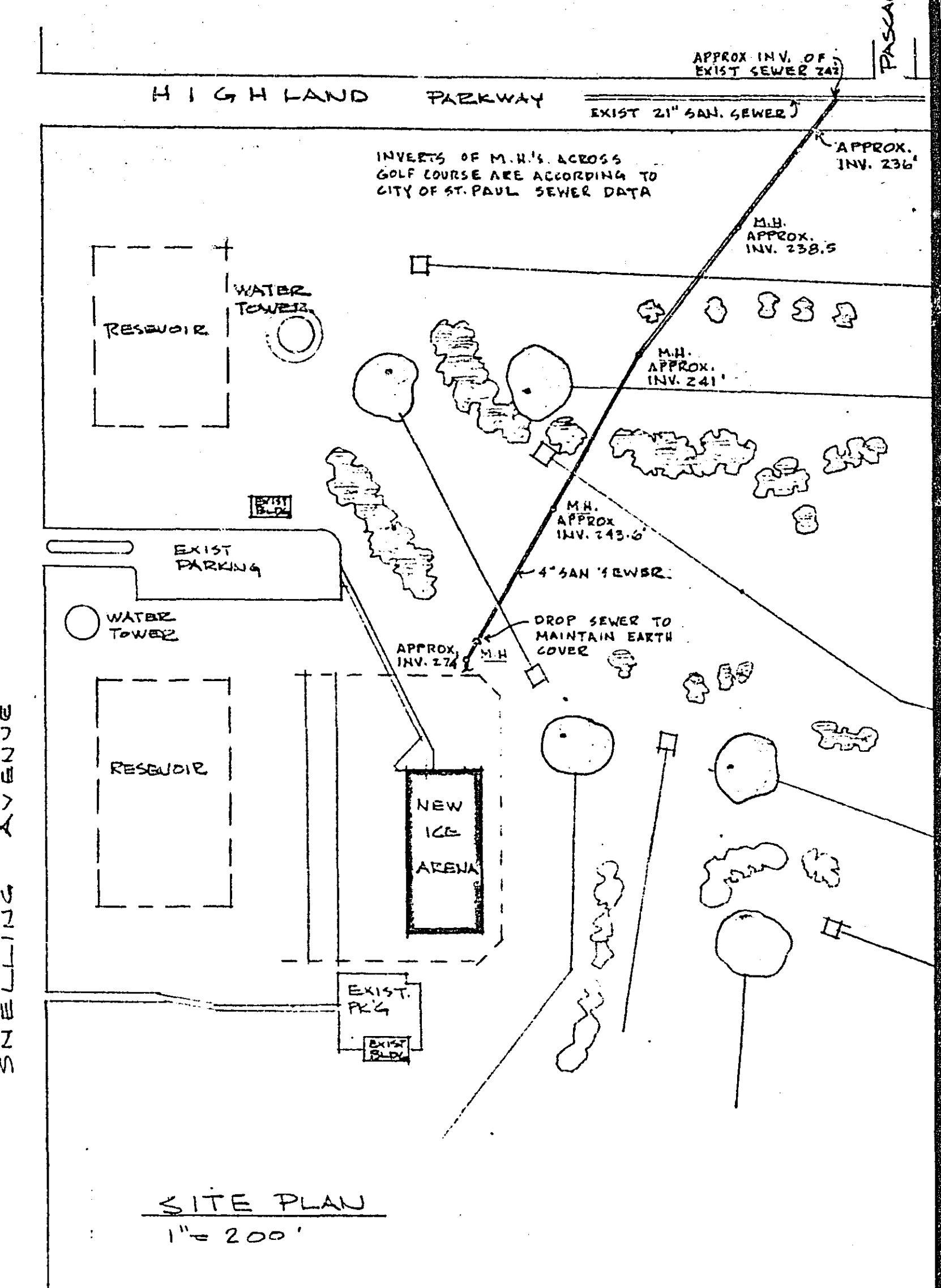
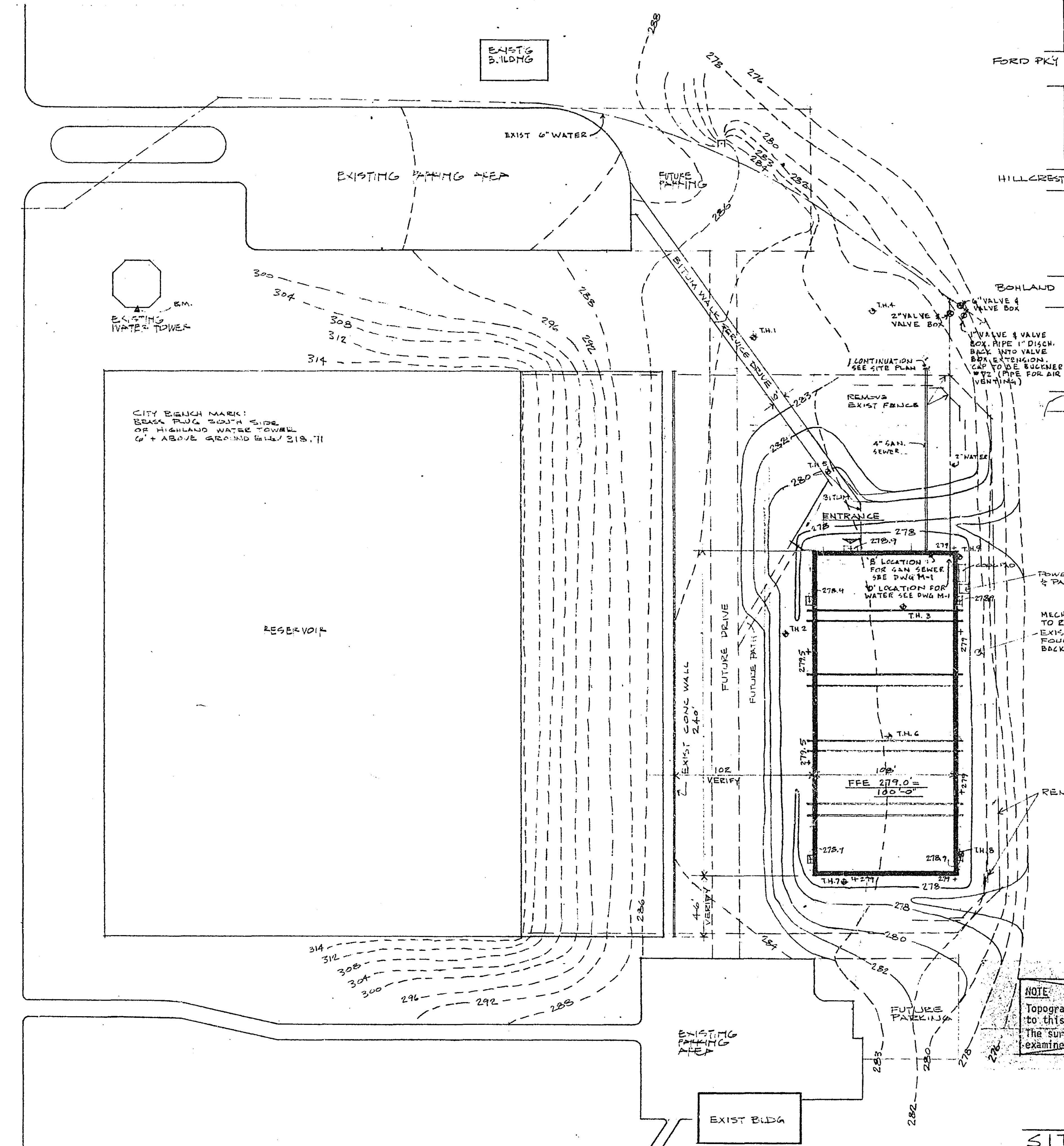
NOTE: THIS PLAN IS FOR ORIENTATION ONLY. REFER TO PLAN SHEET #1 FOR DIMENSIONS AND DETAILS, ETC.

EL 306.88
TOP OF HYD
FORD PARKWAY

HILLCREST AVENUE

BOHLAND AVENUE

STELLING AVENUE

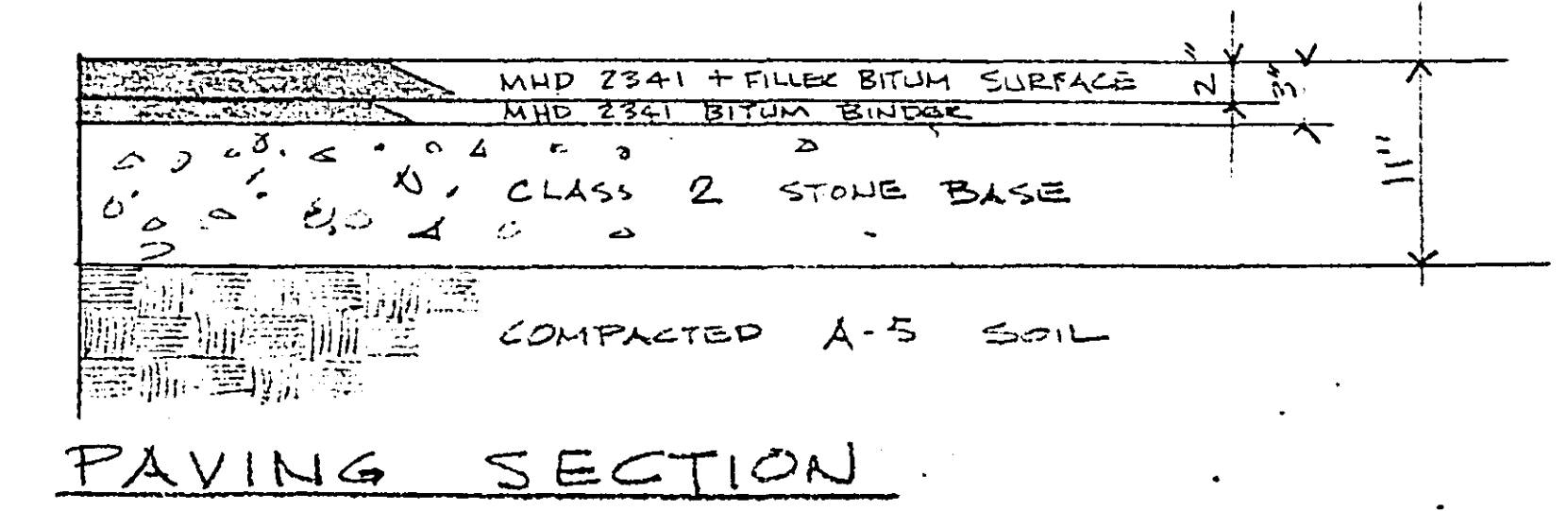


SITE PLAN
1" = 200'

NOTE
The property line, utility and topographic information contained on this drawing has been extracted from a survey drawing prepared by the office of County Engineer, Ramsey County, dated April 6, 1972.
The Architect makes no warranty, express or implied, that the information is accurate or that conditions at the site have not changed since the site drawing was prepared.
A copy of the site information is on file in the office of the Architect and may be examined upon request.

NOTE
Topographic, property line, and utility information will be issued as a revision to this drawing.
The survey drawings will be on file in the office of the Architect and may be examined upon request.

SITE PLAN
1" = 50'



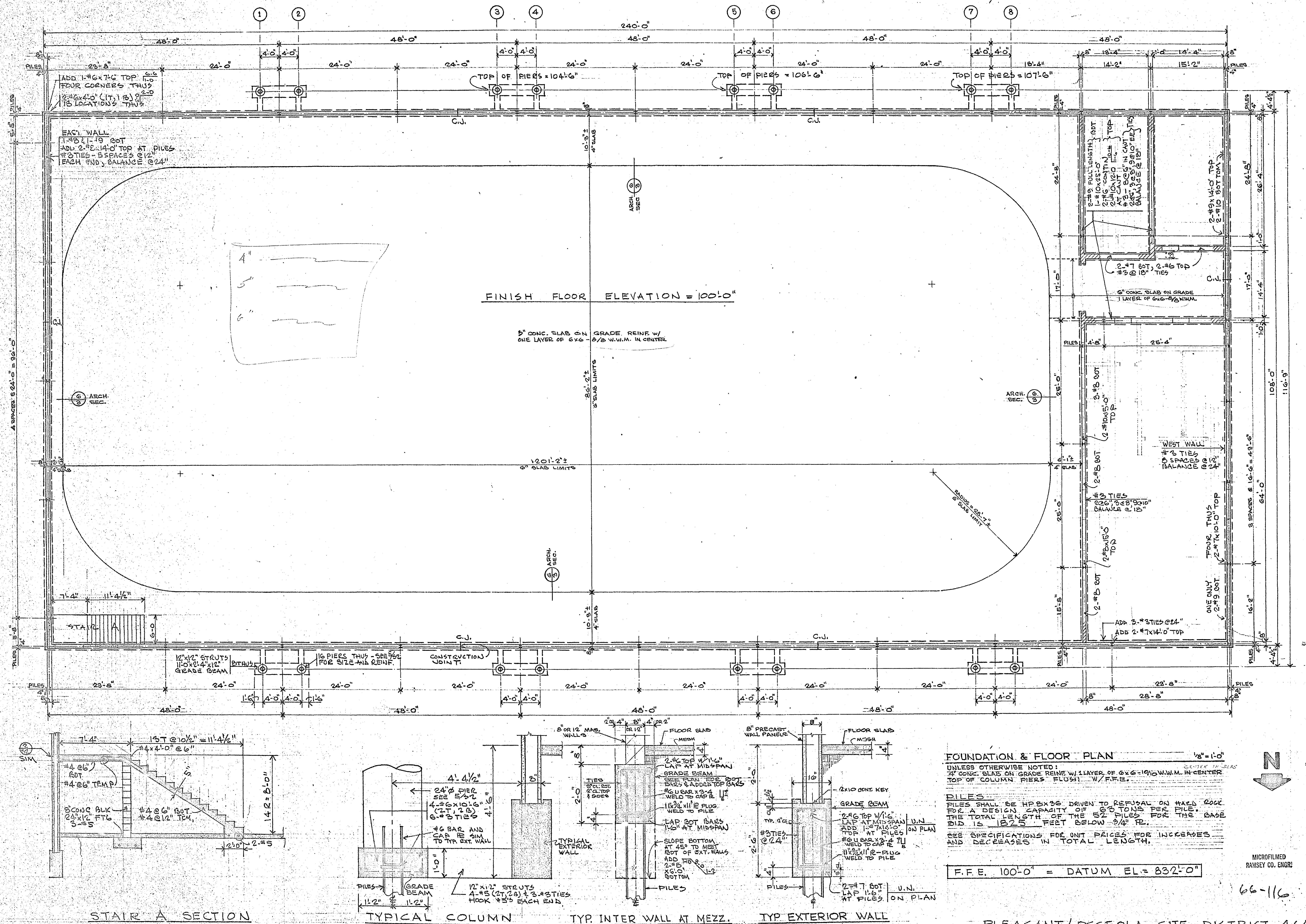
PAVING SECTION

Team 70 Architects
St Paul Building
Saint Paul 55102

HIGHLAND PARK SITE

Ramsey County Ice Arena Program

4-12-72
REVISION 1



FOUNDATION & FLOOR PLAN

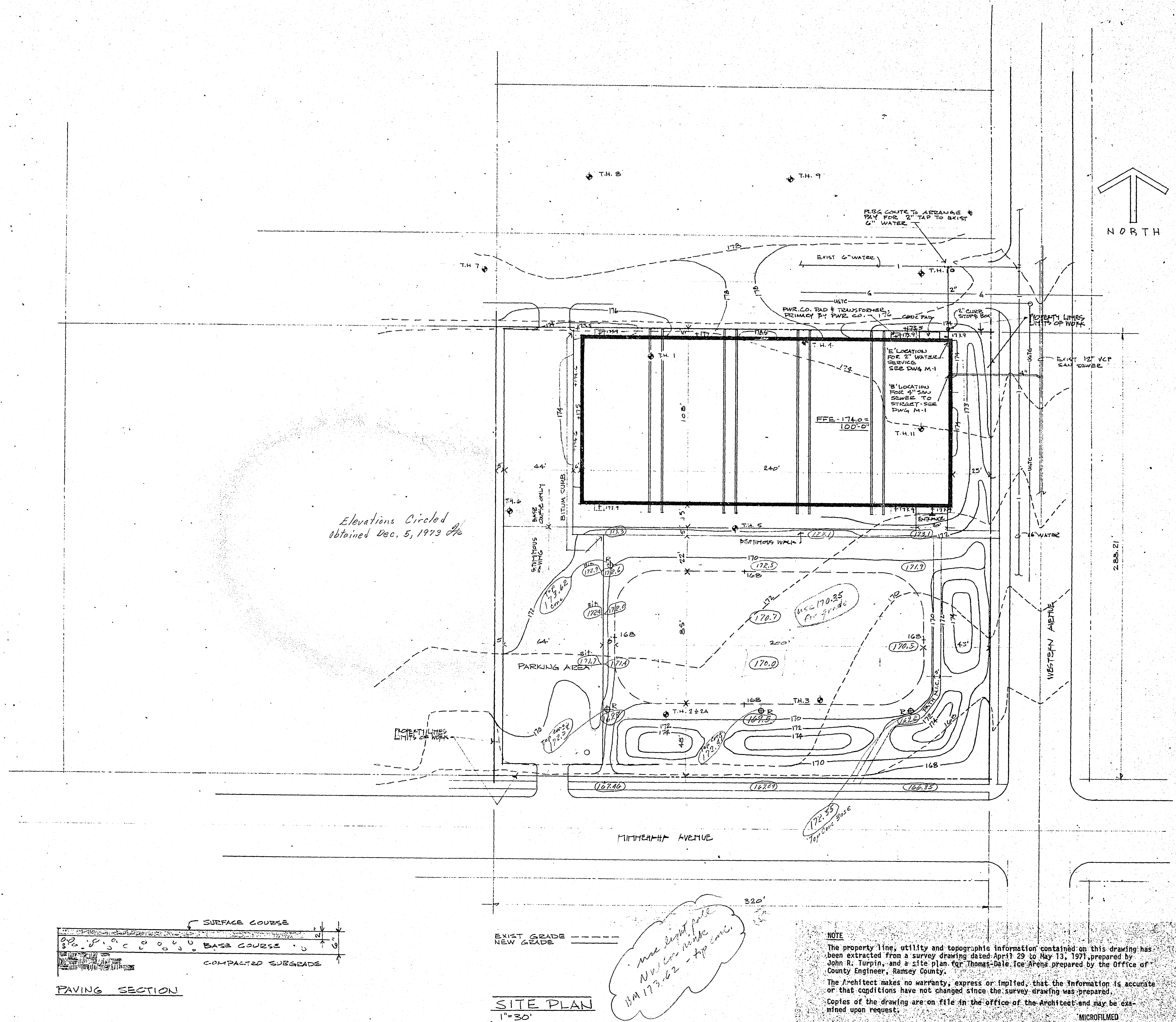
UNLESS OTHERWISE NOTED:
 3" CONC. SLAB ON GRADE REINF. W/ 1 LAYER OF 6x6 W.W.M. IN CENTER
 TOP OF COLUMN PIERS FLUSH W/ F.F.E.

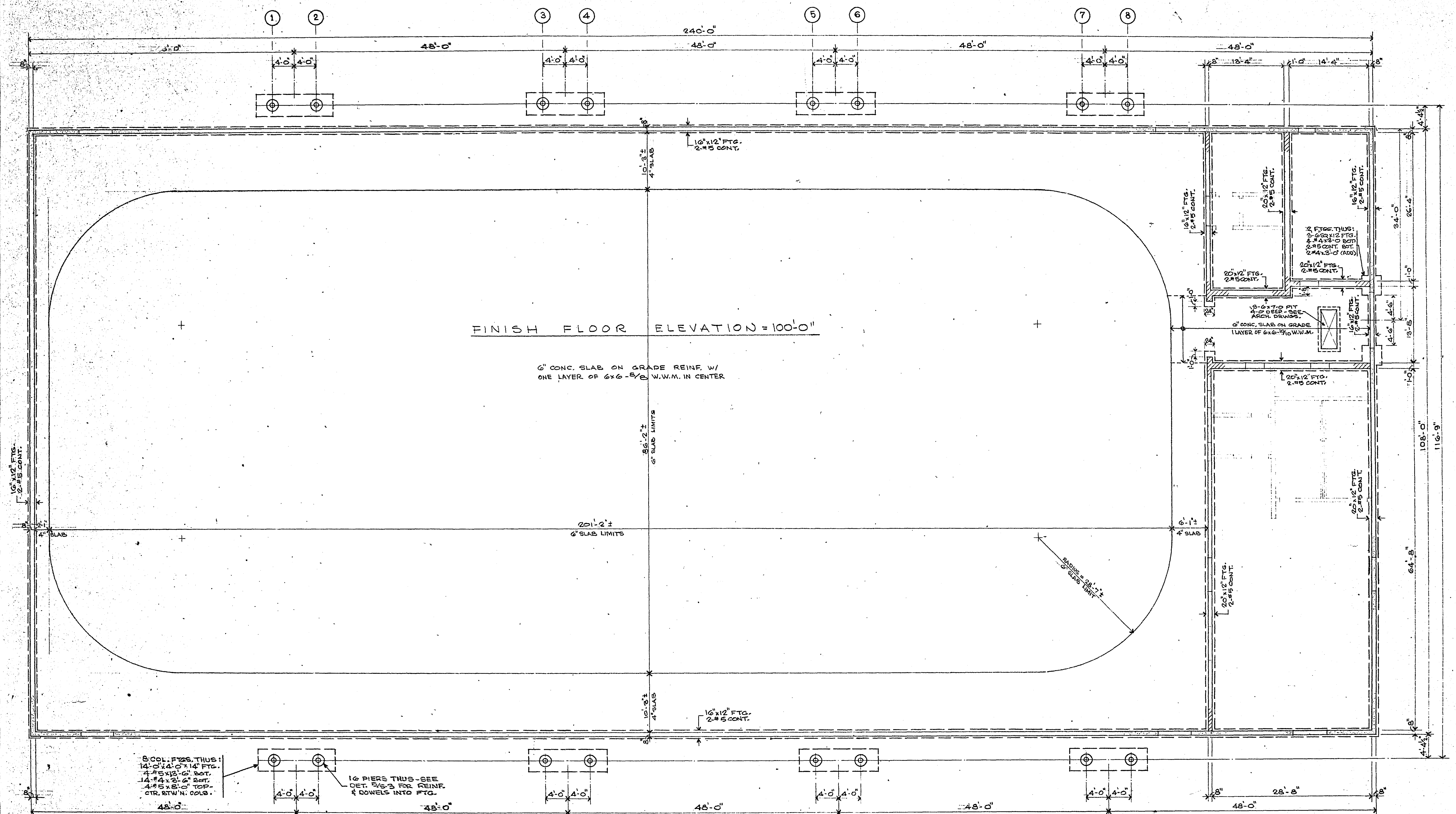
PILES:
 PILES SHALL BE HP 8x36 DRIVEN TO REFUSAL ON HARD ROCK
 FOR A DESIGN CAPACITY OF 52 TONS PER PILE.
 THE TOTAL LENGTH OF THE 52 PILES FOR THE BASE
 BID IS 1825 FEET BELOW 3/4" R.P.
 SEE SPECIFICATIONS FOR UNIT PRICES FOR INCREASES
 AND DECREASES IN TOTAL LENGTH.

F.F.E. 100'-0" = DATUM EL. = 832'-0"

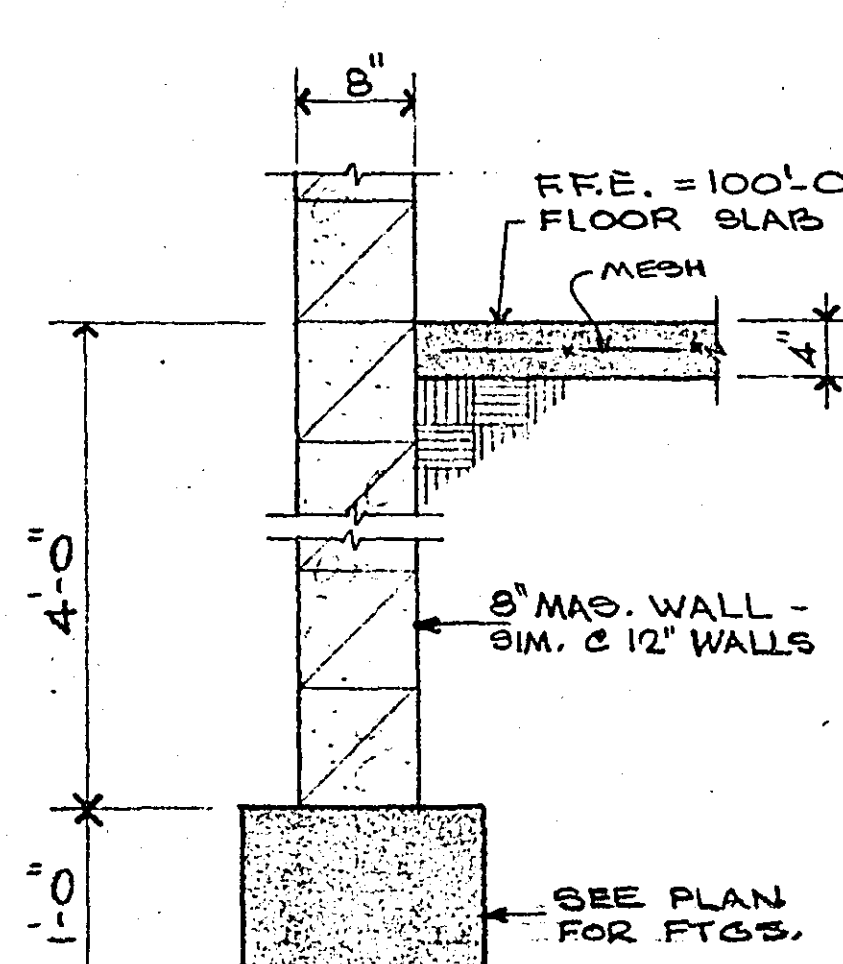
MICROFILMED
 RAMSEY CO. ENGR.

PLEASANT/Osceola SITE - DISTRICT 46A

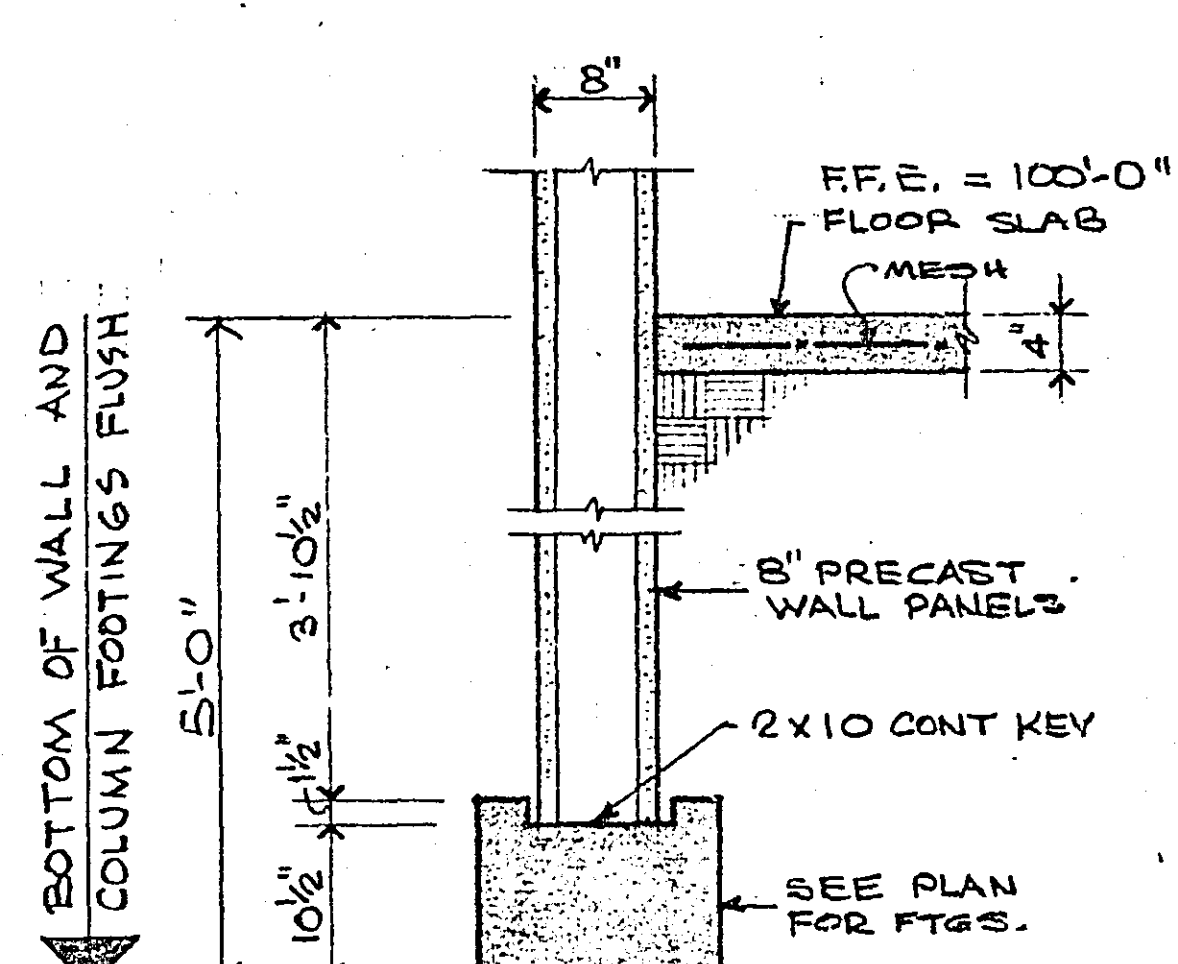




8 COL. FTGS. THUS:
14'-0" x 14'-0" x 14' FTG.
4'-0" x 12'-6" BOT.
14'-0" x 2'-6" BOT.
4'-0" x 8'-0" TOP-
CTR. 10" W.W.M. 22'S.



TYP. INTER. WALL AT MEZZ.



TYP. EXTERIOR WALL

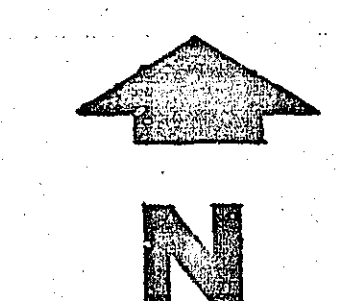
FOUNDATION & FLOOR PLAN 1/8" = 1'-0"

UNLESS OTHERWISE NOTED:
4" CONC. SLAB ON GRADE REINF. W/ 1 LAYER OF 6x6-10 W.W.M. IN CENTER

SOIL BEARING DESIGN VALUE = 3000 PSF

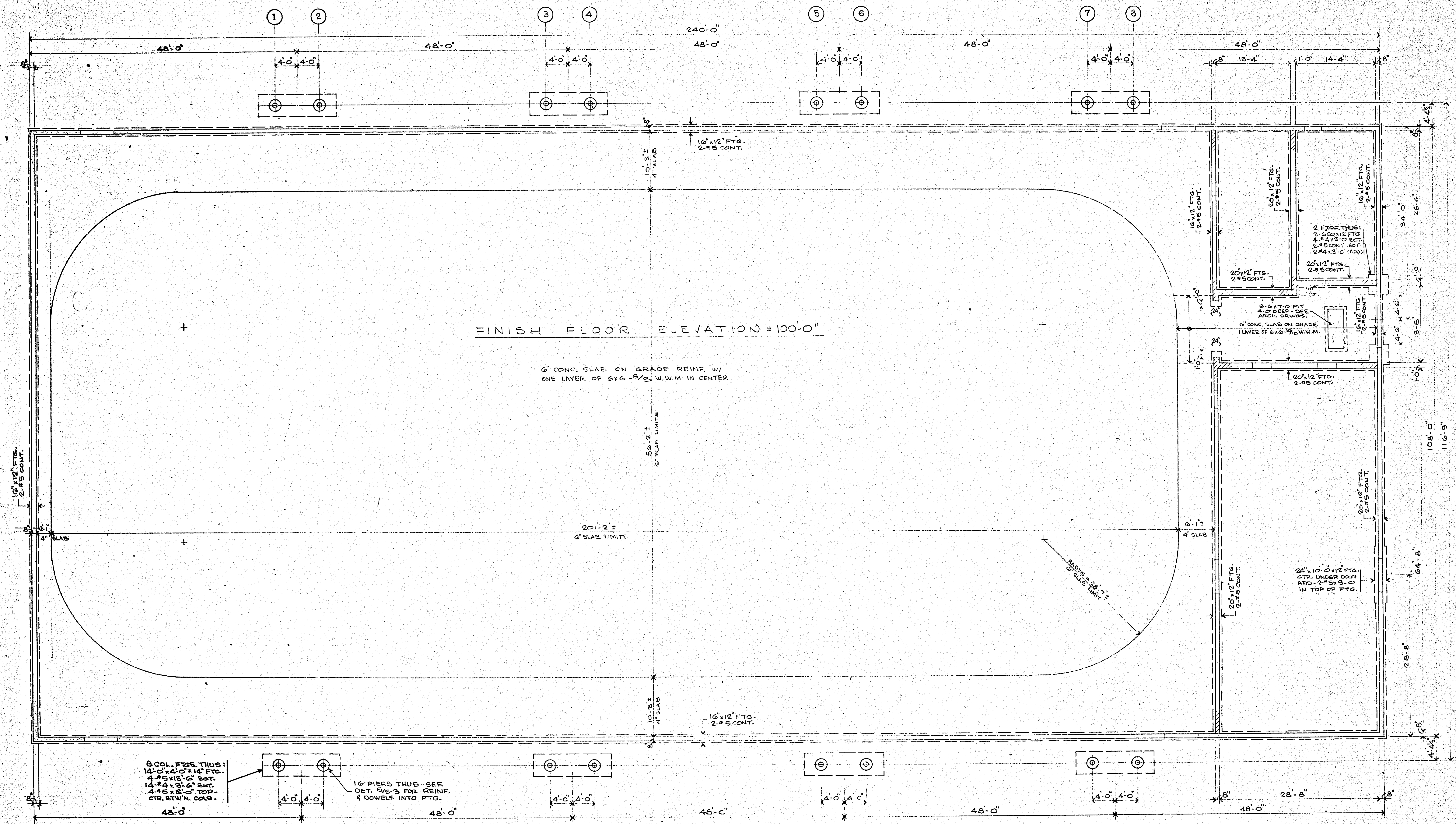
FOOTINGS
WALL FOOTINGS ARE CONTINUOUS POURED CONCRETE WITH CONTINUOUS REINFORCING PLACED 9" CLEAR BOTTOM AND SIDES, LAPPING 24 DIA AT SPLICES AND FULL CROSSING LAP AT CORNERS AND INTERSECTIONS, UNLESS OTHERWISE NOTED, WALL FOOTINGS ARE CENTERED UNDER WALLS AND COLUMN FOOTINGS ARE CENTERED UNDER COLUMNS.

F.F.E. 100'-0" = DATUM EL. 174'-0"



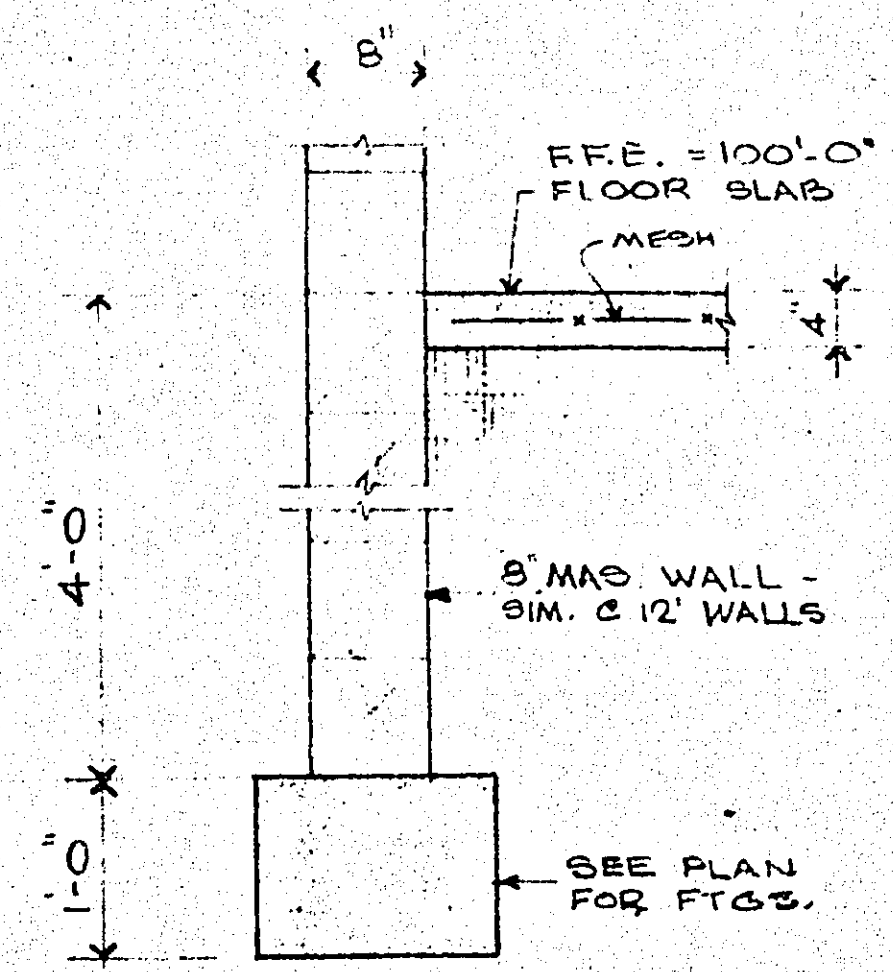
MICROFILMED
RAMSEY CO. ENGR.

WESTERN/MINNEHAHA SITE - DISTRICT 45A

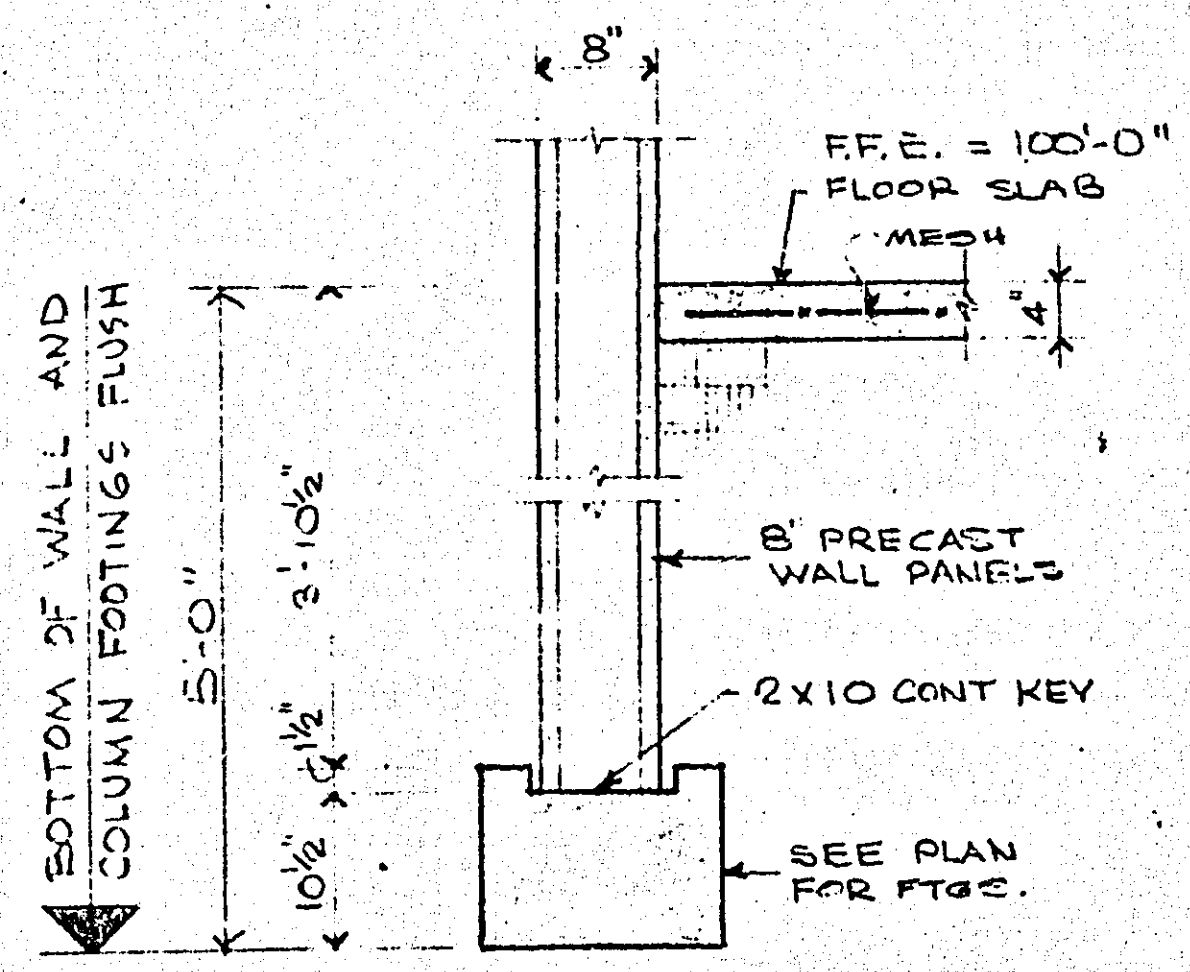


8 COL. FTGS. THUS:
14'-0" x 14'-0" x 14' FTG.
4 #5 x 13'-6" BOT.
14 #4 x 2'-6" BOT.
4 #5 x 13'-0" TOP.
CTR. BTWN. COLS.

16' PIERS THUS - SEE
DET. 12/6-3 FOR REINF.
4 DOWELS INTO FTG.



TYP. INTER. WALL AT MEZZ.



TYP. EXTERIOR WALL

FOUNDATION & FLOOR PLAN 1/8" = 1'-0"

UNLESS OTHERWISE NOTED:
4" CONC. SLAB ON GRADE REINF. W/ 1 LAYER OF 6x6-10/10 W.W.M. IN CENTER

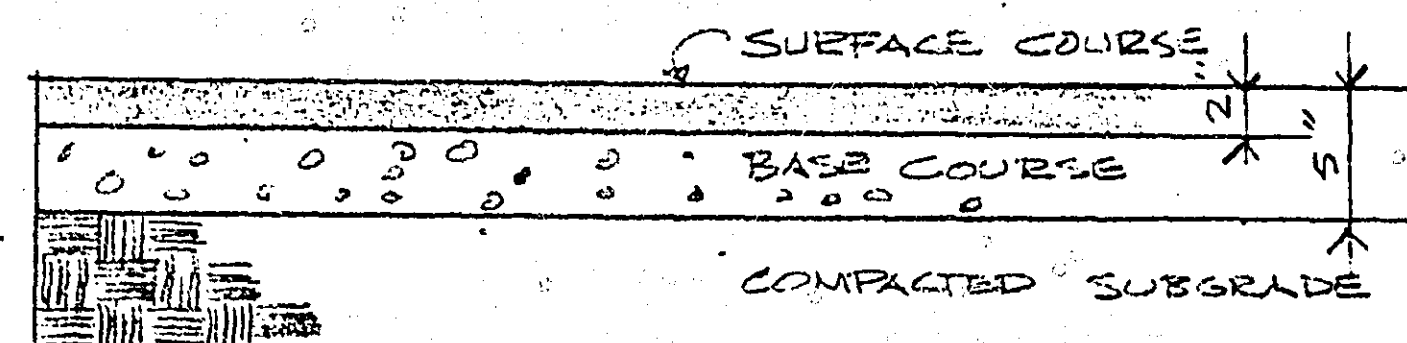
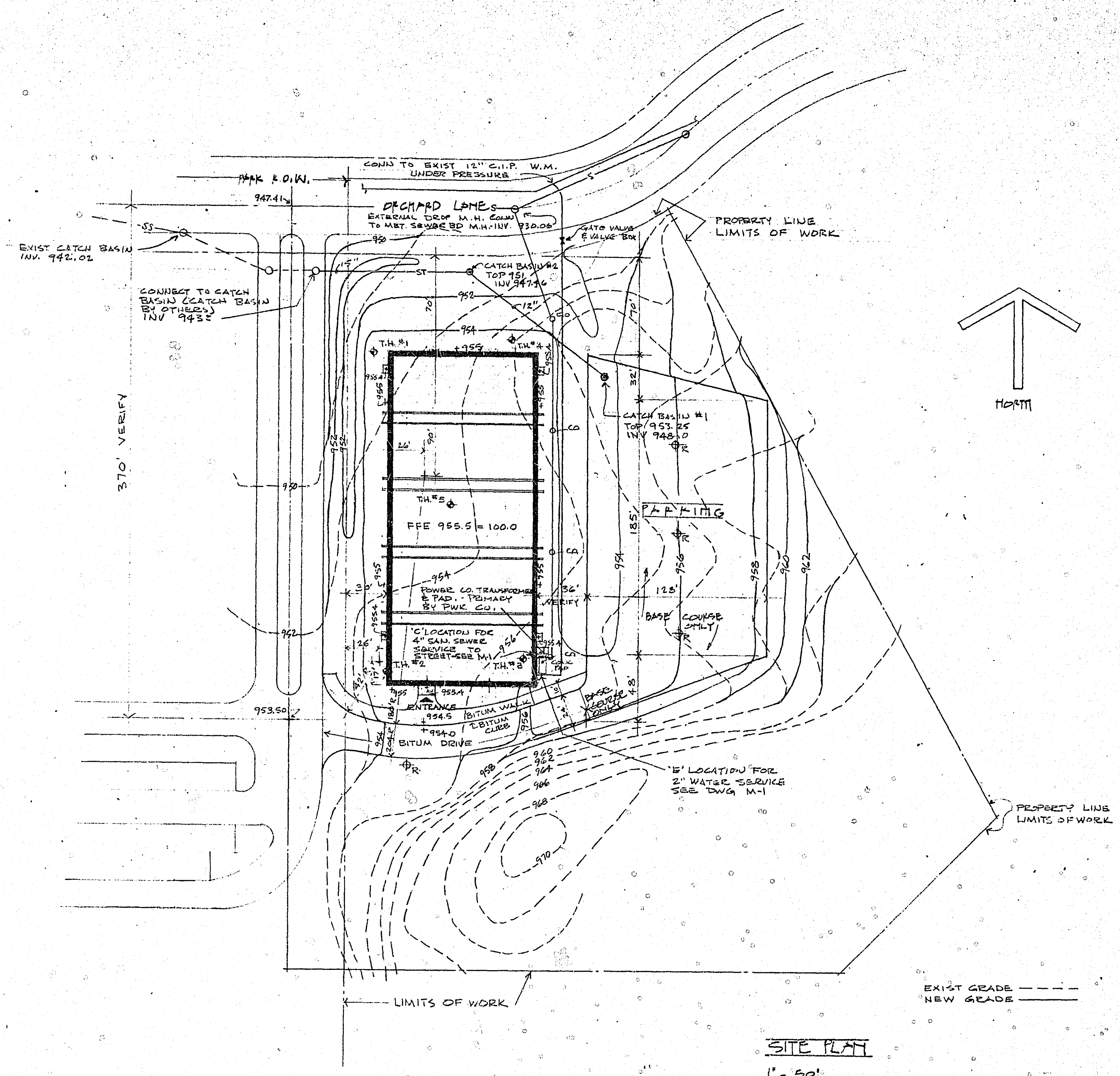
SOIL BEARING DESIGN VALUE = 3000 PSF

FOOTINGS
WALL FOOTINGS ARE CONTINUOUS POURED CONCRETE WITH CONTINUOUS REINFORCING PLACED 3" CLEAR BOTTOM AND SIDES, LAPPING 24 DIA AT SPLICES AND FULL CROSSING LAP AT CORNERS AND INTERSECTIONS. UNLESS OTHERWISE NOTED, WALL FOOTINGS ARE CENTERED UNDER WALLS AND COLUMN FOOTINGS ARE CENTERED UNDER COLUMNS.

F.F.E. 100'-0" = DATUM EL. 955'-6"

MICROFILMED
RAMSEY CO. ENGR.

WHITE BEAR LAKE SITE - DISTRICT 50B WALL



PAVING SECTION

NOTE
 The property line, utility and topographic information contained on this drawing has been extracted from a site drawing prepared by the Office of County Engineer, Ramsey County and information supplied by the City Engineer of White Bear Lake.
 The Architect makes no warranty, express or implied, that the information is accurate or that conditions at the site have not changed since the site drawing was prepared.
 A copy of the site information is on file in the office of the Architect and may be examined upon request.

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 RAMSEY CO. ENGR. 66-116

WHITE BEAR LAKE SITE - DISTRICT 50B