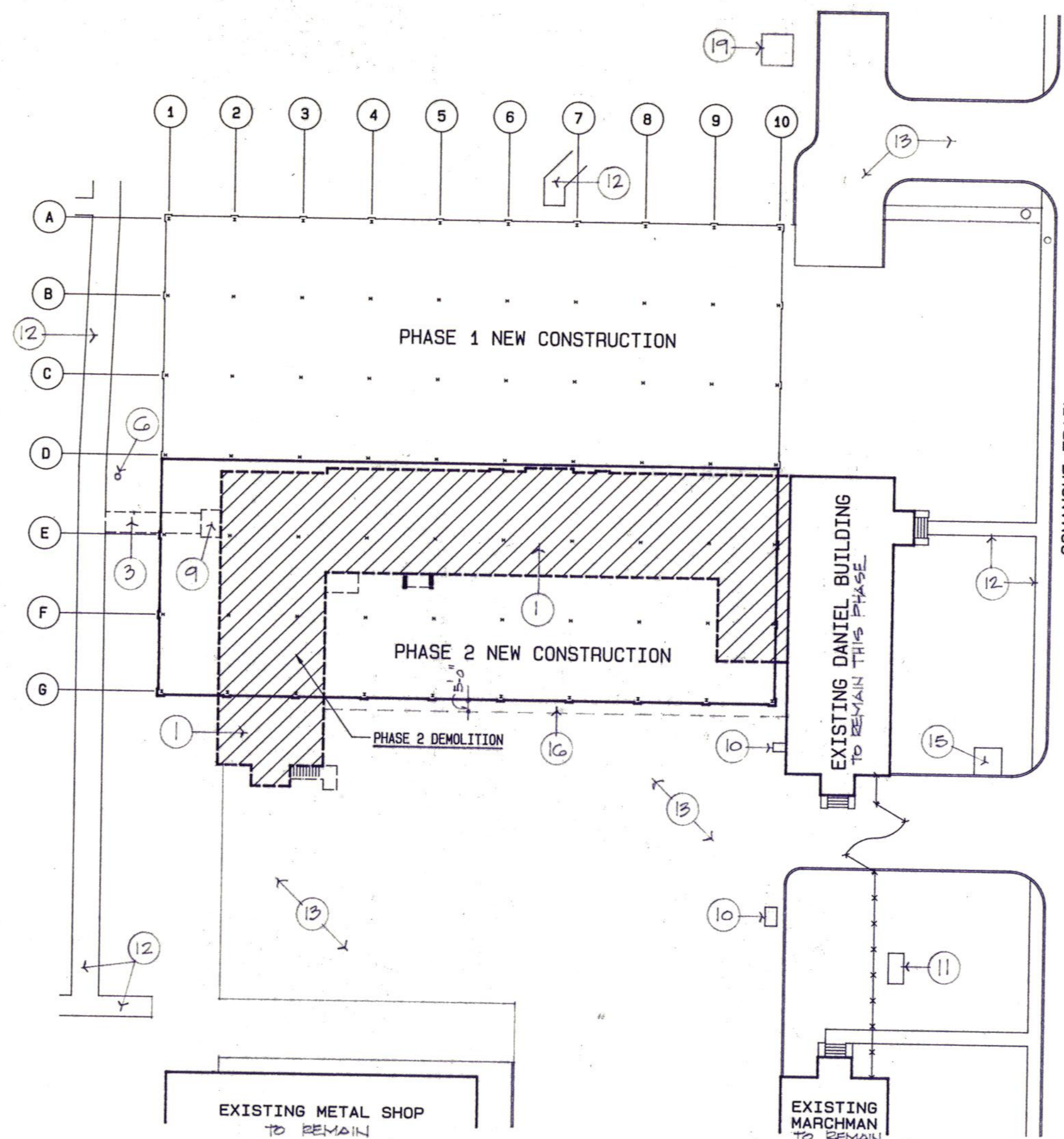


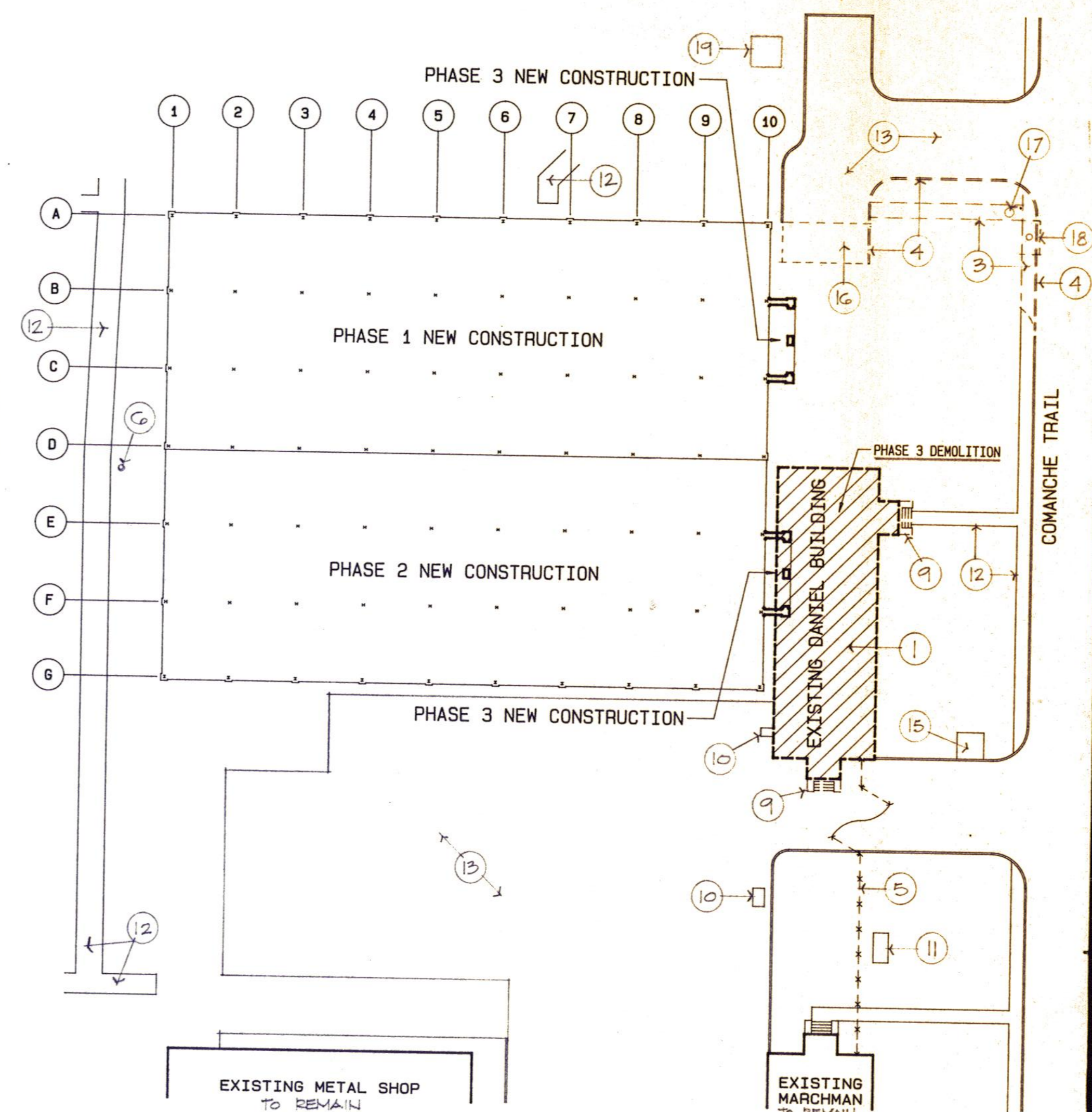
1 SITE PLAN - PHASE ONE

1" = 30'-0"



2 SITE PLAN - PHASE TWO

1" = 30'-0"



3 SITE PLAN - PHASE THREE

1" = 30'-0"



DEMOLITION KEYNOTES (COORDINATE THESE NOTES WITH VARIOUS PHASED DEMOLITION AND NEW CONSTRUCTION)

- 1 FOR ADDITIONAL BUILDING DEMOLITION REFER SHEET D1.
- 2 EXISTING CONC. CURB AND GUTTER & CONC. RAMP TO BE REMOVED COMPLETE. PROVIDE ACCESSIBILITY TO NEW DOOR #38 (REFER A2) BEFORE PHASE 2 DEMO.
- 3 REMOVE EXISTING CONC. SIDEWALK COMPLETE.
- 4 REMOVE EXISTING CONC. CURB & GUTTER COMPLETE.
- 5 REMOVE EXISTING CHAIN LINK FENCE AND POSTS AND RELOCATE. REFER SP2.
- 6 EXISTING TREE TO REMAIN.
- 7 REMOVE EXISTING CONC. TUNNEL ACCESS AS REQUIRED FOR NEW CONSTRUCTION. REFER SS.
- 8 EXISTING FACE BECK TO BE REMOVED DURING PHASE 1 DEMOLITION. REFER GENERAL NOTE #3 ON SHEET D1 FOR ADDITIONAL INFORMATION.
- 9 REMOVE EXISTING CONC. PORCH COMPLETE.
- 10 EXISTING GASOLINE PUMP TO REMAIN INTACT.
- 11 EXISTING ELECTRICAL TRANSFORMER TO REMAIN.
- 12 EXISTING CONC. SIDEWALK TO REMAIN INTACT AVOID DAMAGE.
- 13 EXISTING ASPHALT PARKING TO REMAIN UNLESS OTHERWISE NOTED.
- 14 4'-0" WIDE PORTION OF EXISTING CONC. SIDEWALK TO REMAIN.
- 15 EXISTING DUMPSTER AND CONC. PAD TO REMAIN.
- 16 REMOVE PORTION OF EXISTING PAVING AS REQUIRED FOR NEW CONSTRUCTION.
- 17 EXISTING TELEPHONE MANHOLE TO BE REMOVED AS REQUIRED, TO BE LOWERED TO NEW DRIVE ELEVATION. REFER SHT. SP2.
- 18 EXISTING STORM SEWER CURB INLET, LID AND MANHOLE TO BE REMOVED AS REQUIRED. REFER SP2.
- 19 EXISTING TUNNEL ACCESS TO REMAIN AND BE PROTECTED. DO NOT STORE ANY MATERIALS WITHIN 3'-0" OF STRUCTURE.

GENERAL NOTES

1. FOR ADDITIONAL BUILDING DEMOLITION INFORMATION REFER SHEET D1.
2. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE SUB CONTRACTORS DEMOLITION REQUIRED FOR ALL DISCIPLINES UNDER THIS CONTRACT.
3. PROVIDE ADEQUATE SHORING OF ALL LOAD BEARING AREAS AS REQUIRED BETWEEN DEMOLITION PHASES.
4. COORDINATE ALL DEMOLITION WITH NEW CONSTRUCTION DRAWINGS.
5. CONTRACTOR SHALL MAKE HIMSELF FAMILIAR WITH EXISTING SITE CONDITIONS.
6. IF SITE ALTERNATES ARE ACCEPTED, NOT ALL DEMOLITION INDICATED THIS SHEET MAY APPLY AND ADDITIONAL SITE DEMOLITION IS REQUIRED AS NOTED ON SHT. SP3.



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Midwestern State University
Wichita Falls, Texas

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INC

DRAWN HACKBUECH, B.

CHECKED DAUGHERTY

DATE JULY 11, 1989

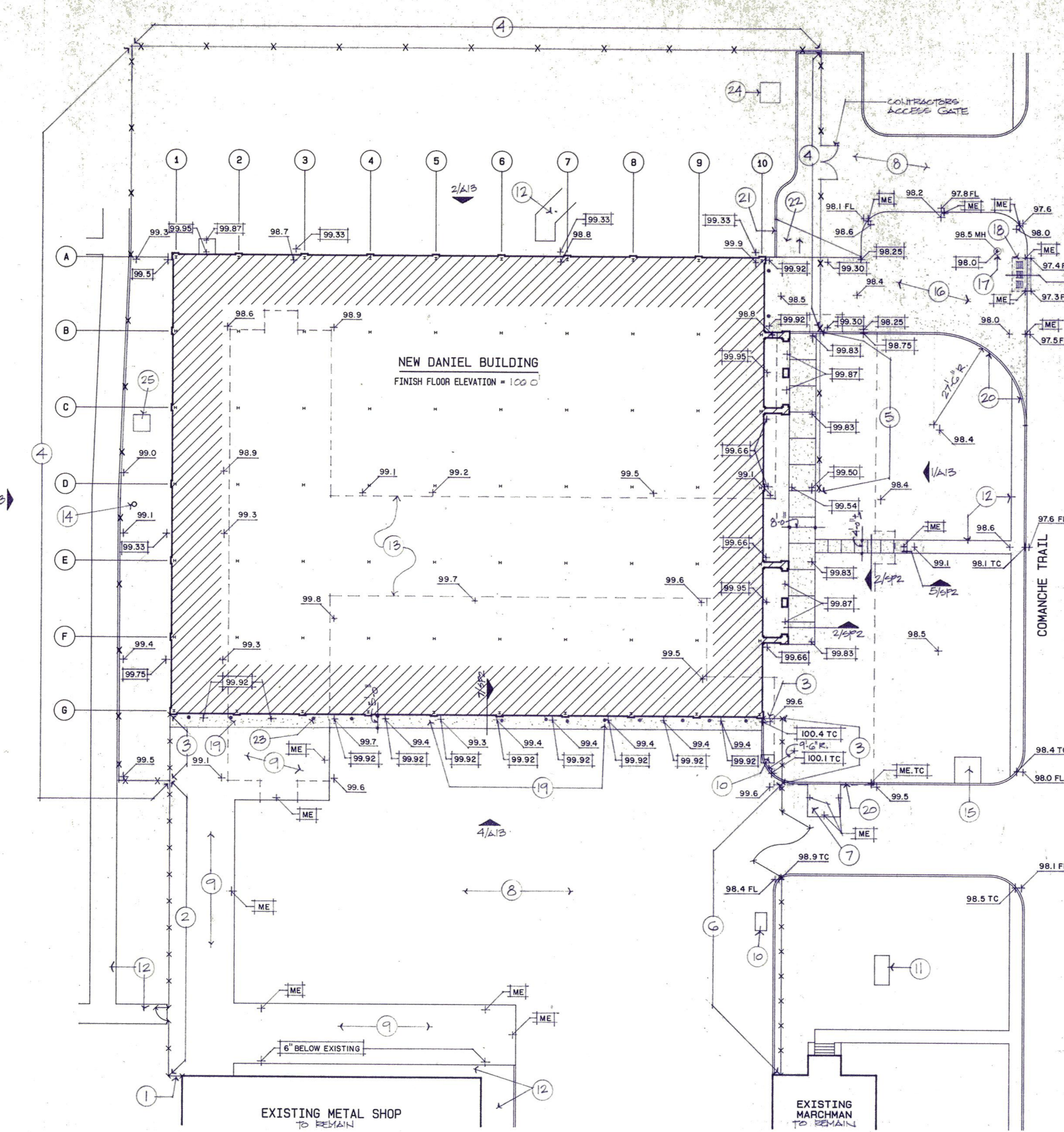
JOB NUMBER 8907

SHEET

SPI

OF 3 VOLUME I

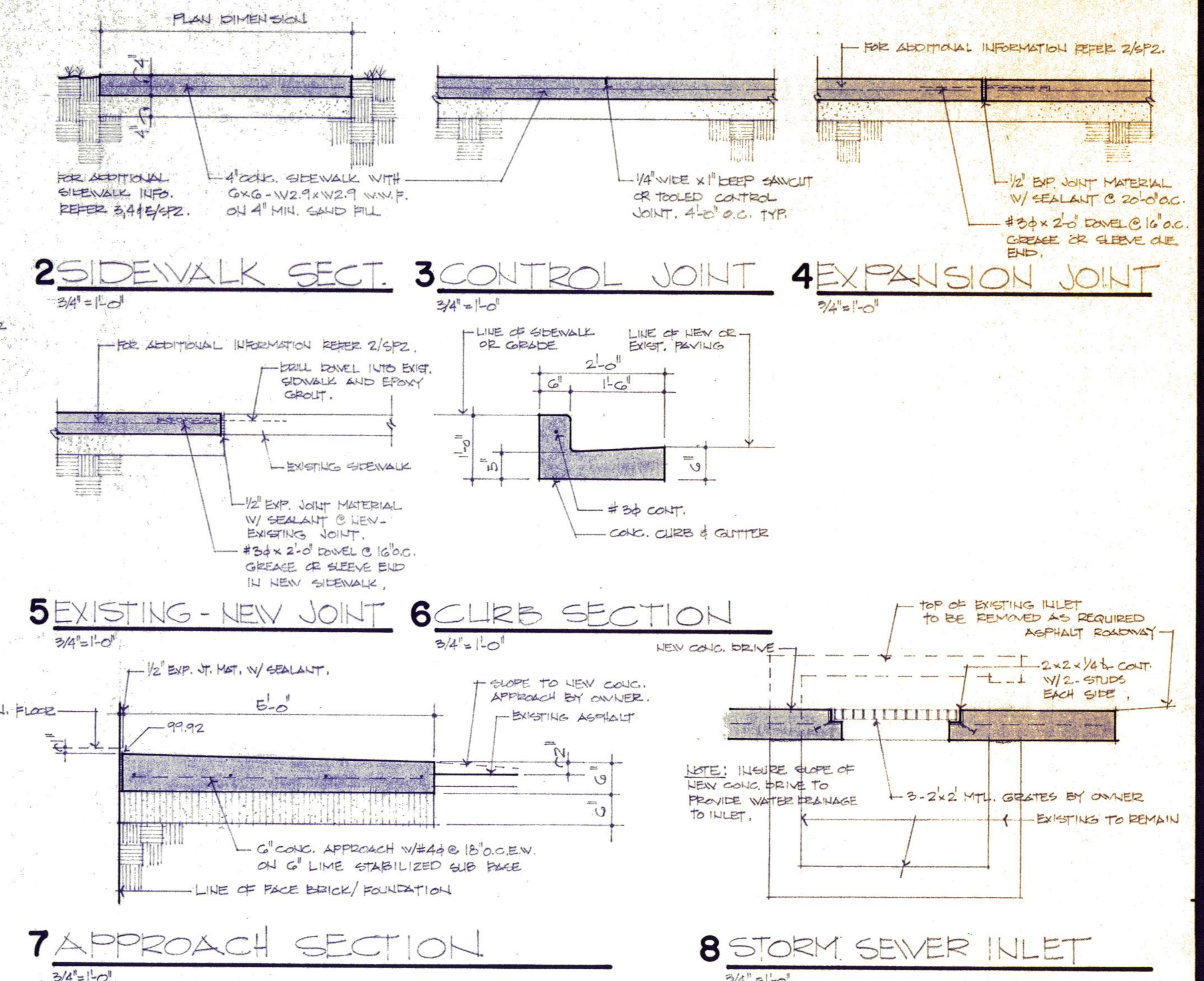
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1 SITE PLAN - BASE BID
1" = 20'-0"

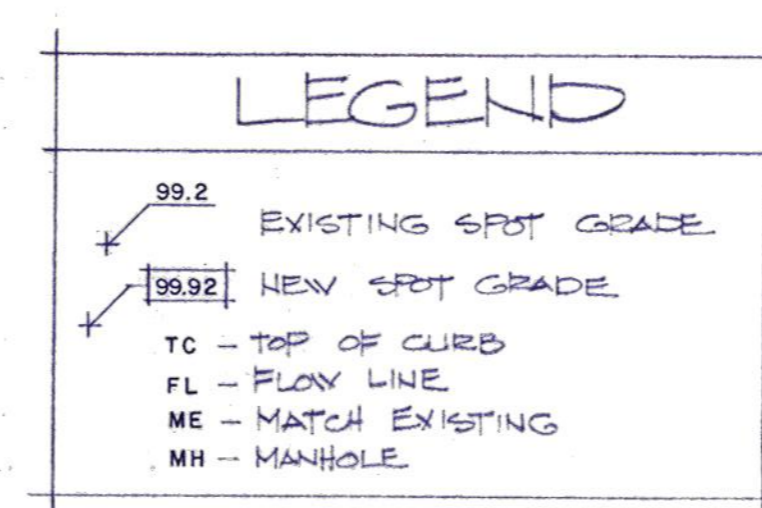
KEYNOTES (THIS SHEET ONLY)

- 1 PROVIDE AND INSTALL NEW FENCE TO MATCH EXISTING FENCE. PHASE 1 NEW CONSTRUCTION.
- 2 EXISTING FENCE REMOVED AND RELOCATED. PHASE 1 NEW CONSTRUCTION. COORDINATE WITH 1/SP1 DEMOLITION. REFER ALTERNATE SITE PLAN SP3 FOR ADDITIONAL INFORMATION.
- 3 NEW FENCE TO MATCH EXISTING FENCE. PHASE 3 NEW CONSTRUCTION. REFER ALT. SITE PLAN SP3 FOR ADDITIONAL INFORMATION.
- 4 CONSTRUCTION FENCE. PHASE 1 DEMOLITION.
- 5 CONSTRUCTION FENCE. PHASE 2 NEW CONSTRUCTION.
- 6 EXISTING FENCE REMOVED AND RELOCATED. PHASE 3 NEW CONSTRUCTION. COORDINATE WITH 1/SP1 DEMOLITION. REFER ALTERNATE SITE PLAN SP3 FOR ADDITIONAL INFORMATION.
- 7 6" CONC. BASE W/ 2" ASPHALT TOPPING.
- 8 EXISTING ASPHALT PARKING LOT TO REMAIN UNLESS OTHERWISE NOTED.
- 9 6" CRUSHED STONE FILL.
- 10 EXISTING GASOLINE PUMP TO REMAIN INTACT.
- 11 EXISTING ELECTRICAL TRANSFORMER TO REMAIN.
- 12 EXISTING CONC. SIDEWALK TO REMAIN INTACT AVOID DAMAGE.
- 13 LINE OF EXISTING BUILDING DEMOLISHED IN PHASES REFER SP1.
- 14 EXISTING TREE TO REMAIN.
- 15 EXISTING PUMPSTER AND CONC. PAD TO REMAIN.

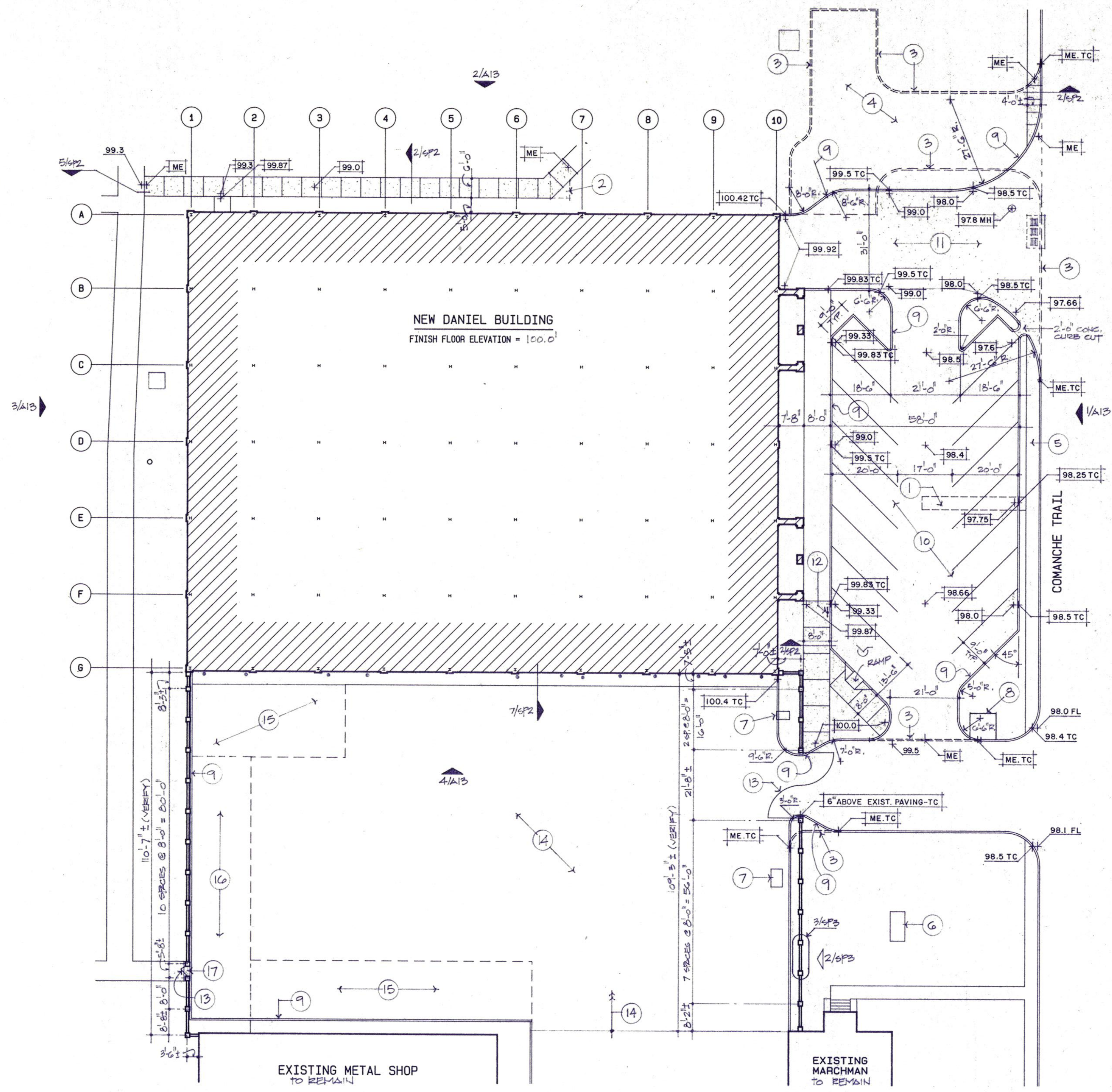


GENERAL NOTES

1. IF ALTERNATE FOR BRICK FENCING IS ACCEPTED (REFER SP3), THEN EXISTING CHAINLINK FENCING MAY BE USED IN CONSTRUCTION FENCE(S).
2. ALL CONSTRUCTION FENCING IS TO BE REMOVED AFTER PHASE 2 NEW CONSTRUCTION.
3. COORDINATE THIS SITE PLAN 1/SP2 WITH SHEET SP1 FOR ADDITIONAL NOTATION OF ITEMS.
4. COORDINATE THIS SITE PLAN WITH SHEET SP3 SITE PLAN - ALTERNATES.



- 16 6" CONC. DRIVE W/ #4 @ 18" O.C. EV. ON 4" MIN. SAND FILL.
- 17 EXISTING TELEPHONE MANHOLE TO BE REMOVED AS REQUIRED, TO BE LOWERED TO NEW DRIVE ELEVATION.
- 18 NEW INLET TO EXISTING STORM SEWER REFER 8/SP2
- 19 6" CONC. APPROACH W/ #4 @ 18" O.C. EV. ON 6" LIME STABILIZED SUB BASE.
- 20 NEW CONC. CURB & GUTTER. REFER 6/SP2.
- 21 NEW CONC. CURB TO MATCH SLOPE OF ADJACENT ASPHALT TOPPING.
- 22 NEW ASPHALT TOPPING TO SLOPE TO NEW CONC. DRIVE.
- 23 6" PIPE BOLLARD (CONC. FILLED) 2'-0" ABOVE GRADE, 4'-0" BELOW GRADE. IN 2'-0" DIA. CONC. FILLED HOLE, 1'-0" @ OF BOLLARD TO FACE OF BRICK AND 6" BACK FROM EACH JAMB OF DOORS; 8/9, 11, 13, 22, 27 AND 30. REFER SHEET A2 FOR DOOR LOCATIONS.
- 24 EXISTING TUNNEL ACCESS TO REMAIN AND BE PROTECTED DO NOT STORE ANY MATERIALS WITHIN 2'-0" OF STRUCTURE.
- 25 NEW TRANSFORMER FOR EXACT LOCATION REFER ME-1.

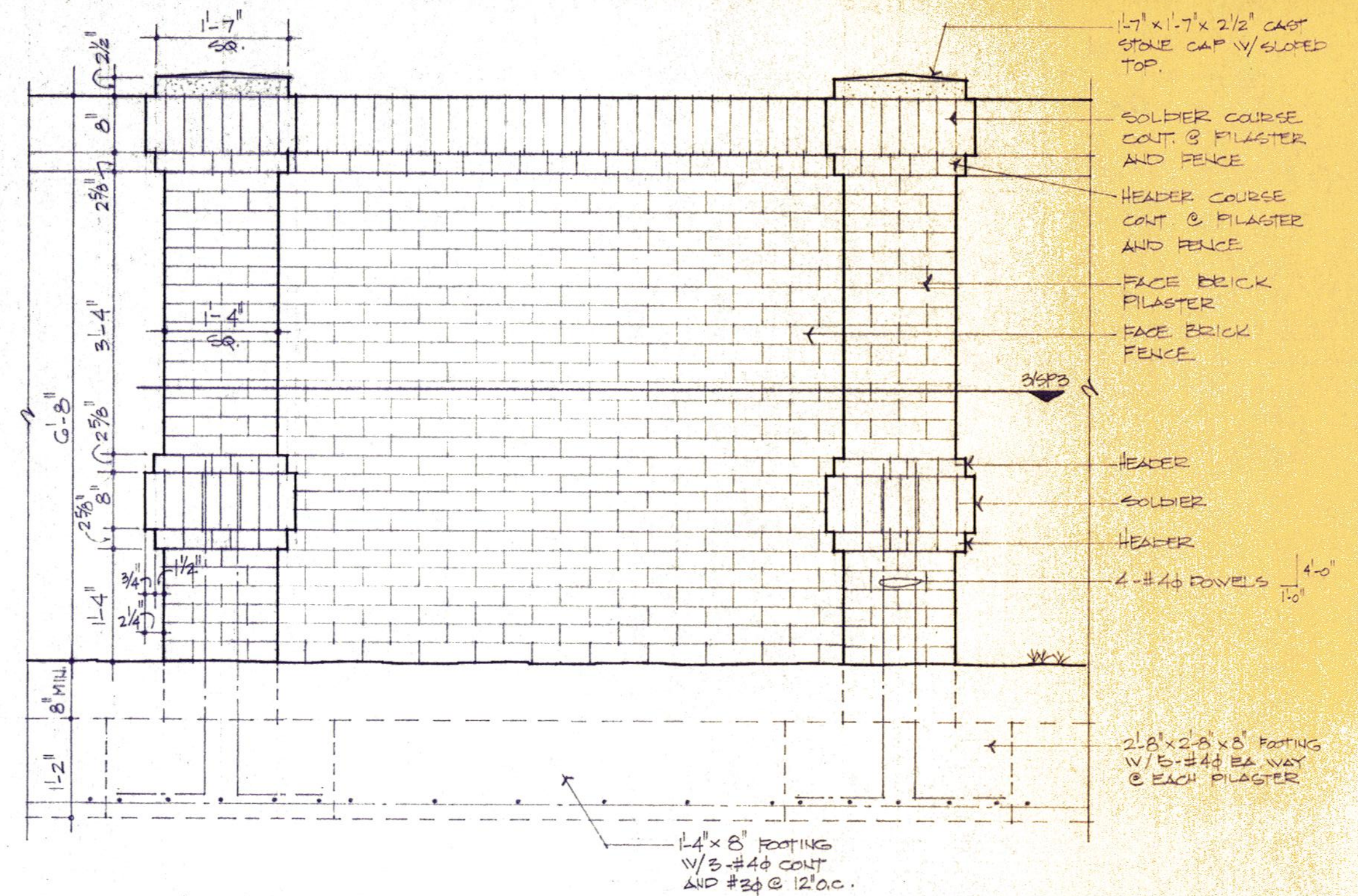


1 SITE PLAN - ALTERNATES

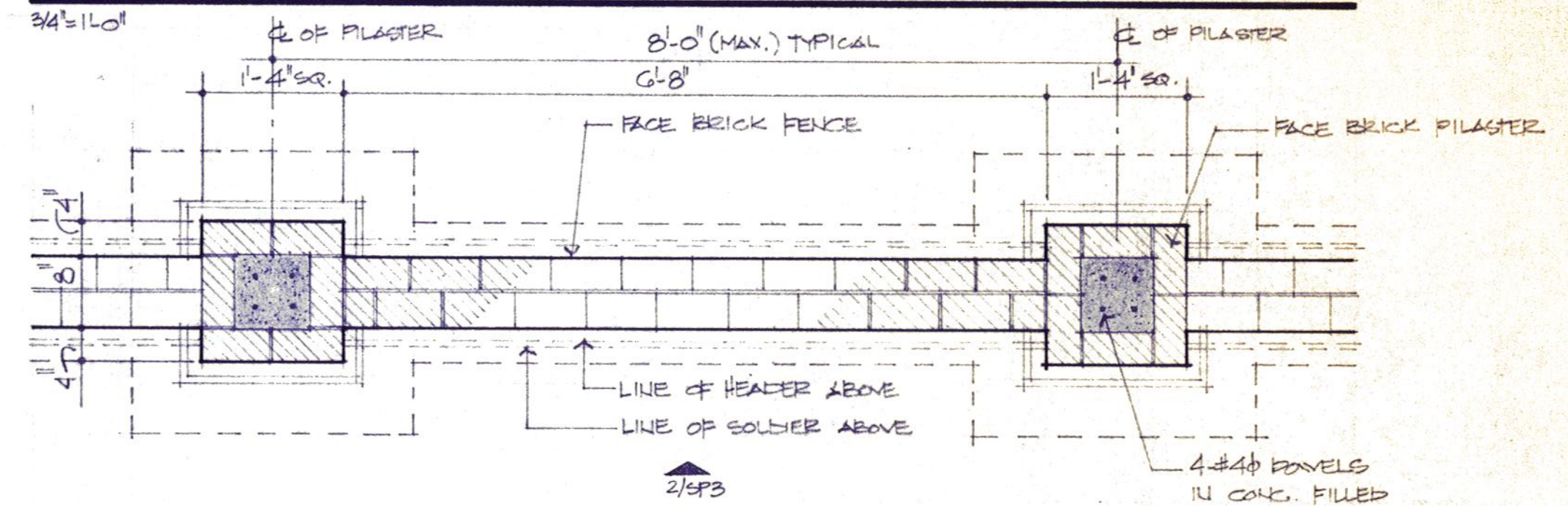
1" = 20'-0"

KEYNOTES (THIS SHEET ONLY)

- (1) REMOVE EXISTING CONC. SIDEWALK IN PHASE 3 DEMOLITION.
- (2) REMOVE PORTION OF EXISTING CONC. SIDEWALK IN PHASE 1 DEMOLITION.
- (3) REMOVE EXISTING CONC. CURB & GUTTER, IN PHASE 3 DEMOLITION.
- (4) REMOVE EXISTING ASPHALT DRIVE COMPLETE IN PHASE 3 DEMOLITION.
- (5) EXISTING SIDEWALK TO REMAIN.
- (6) EXISTING ELECTRICAL TRANSFORMER TO REMAIN.
- (7) EXISTING GASOLINE PUMPS TO REMAIN.
- (8) EXISTING DUMPSTER AND CONC. PAD TO REMAIN.
- (9) NEW CONC. CURB & GUTTER REFER G/SP2.
- (10) 2" ASPHALT PARKING LOT ON G" LIME STABILIZED SUB BASE AND 8" CRUSHED STONE BASE.
- (11) G" CONC. DRIVE W/ #4 @ 18" O.C. ENV. ON 4" MIN. SAND FILL.
- (12) HANDICAPPED PARKING SIGN.
- (13) EXISTING CHAIN LINK SWING GATE RELOCATED IN NEW BRICK FENCE.
- (14) 2" ASPHALT TOPPING ON EXISTING ASPHALT PARKING LOT.
- (15) 2" ASPHALT ON G" CONC. W/ #8 @ 18" O.C. ENV. ON 4" MIN. SAND FILL.
- (16) 2" ASPHALT ON 8" CRUSHED STONE BASE AND 4" LIME STABILIZED SUB BASE.
- (17) NEW CONC. SIDEWALK PATCH REFER 2 & 5/ SP2.



FENCE ELEVATION (ALTERNATE #2)



FENCE PLAN (ALTERNATE #2)

GENERAL NOTES (THIS SHEET ONLY)

1. COORDINATE THIS SITE PLAN 1/SP3 WITH SHEET SP1 FOR ADDITIONAL NOTATION OF ITEMS.
2. COORDINATE THIS SITE PLAN 1/SP3 WITH SHEET SP2 FOR ADDITIONAL INFORMATION.
3. REFER SP2 FOR CONSTRUCTION FENCE.
4. REFER SPECS. FOR ADDITIONAL INFORMATION ON ALTERNATES RELATING TO THIS SHEET.

LEGEND	
99.2	EXISTING SPOT GRADE
99.92	NEW SPOT GRADE
TC	TOP OF CURB
FL	FLOW LINE
ME	MATCH EXISTING
MH	MANHOLE



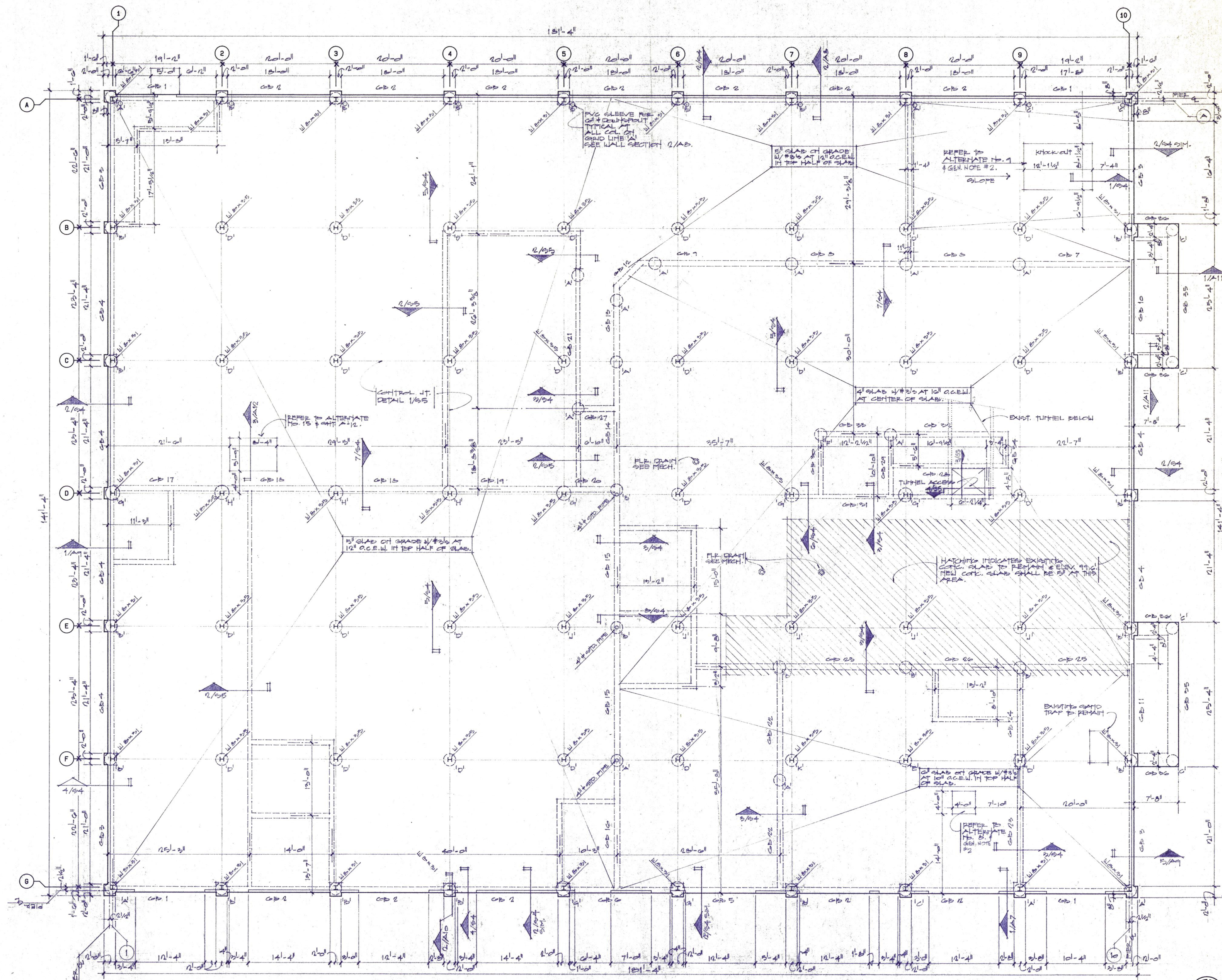
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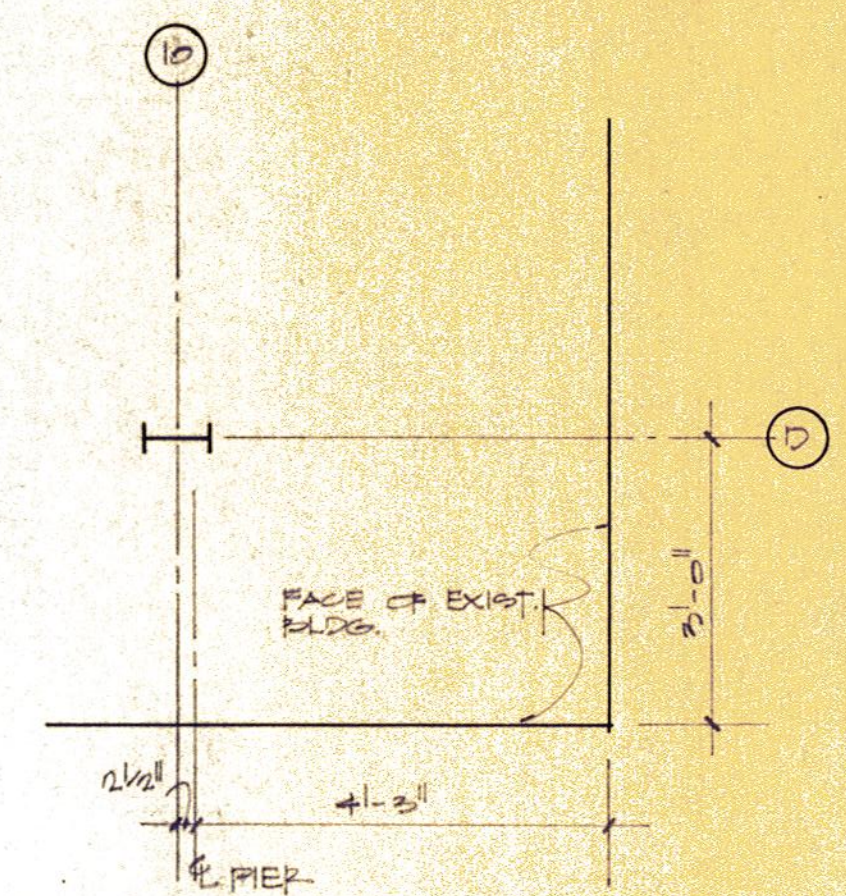
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CHECKED DAUGHERTY
DATE JULY 11, 1989
JOB NUMBER 8907

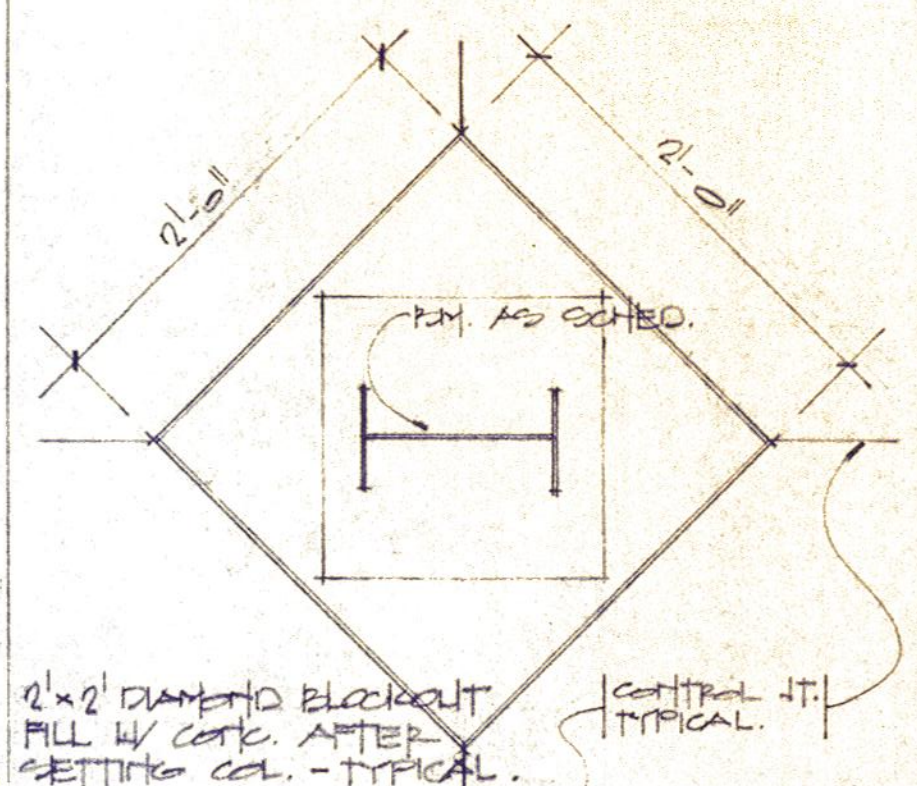
SHEET
SP3
OF 3 VOLUME 1



1 FOUNDATION PLAN



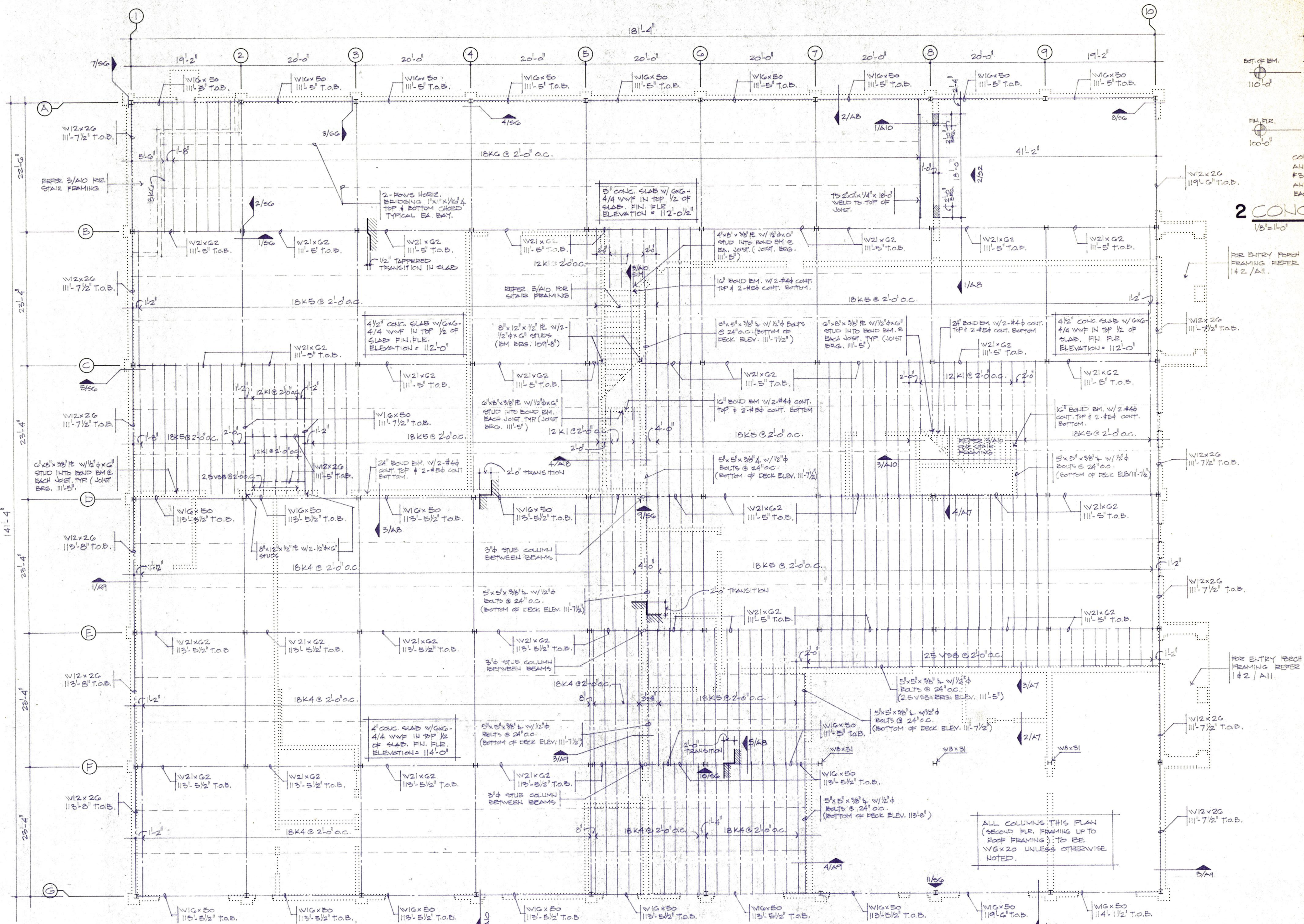
2 DETAIL



3 DETAIL @ Col. - TYPICAL

GENERAL NOTES

1. REFER TO CH. 54 FOR BAR BENDING DIAGRAM, CONC. QUALITY SCHEDULE, GRADE PLAN, AND PIER SCHEDULES.
2. BLOCK OUT SLAB AS REQUIRED FOR ALTERNATES 8 & 9. FOUR SEPARATELY.



1 SECOND FLOOR FRAMING PLAN

1/8" = 1'-0"

NOTE: MOST JOISTS NOT SHOWN FOR CLARITY.
ALL JOIST SPACING 2'-0" O.C. UNLESS OTHERWISE NOTE
W/ GRID "1" THRU "9" INCLUSIVE STARTING POINTS OF JOIST
LAYOUT

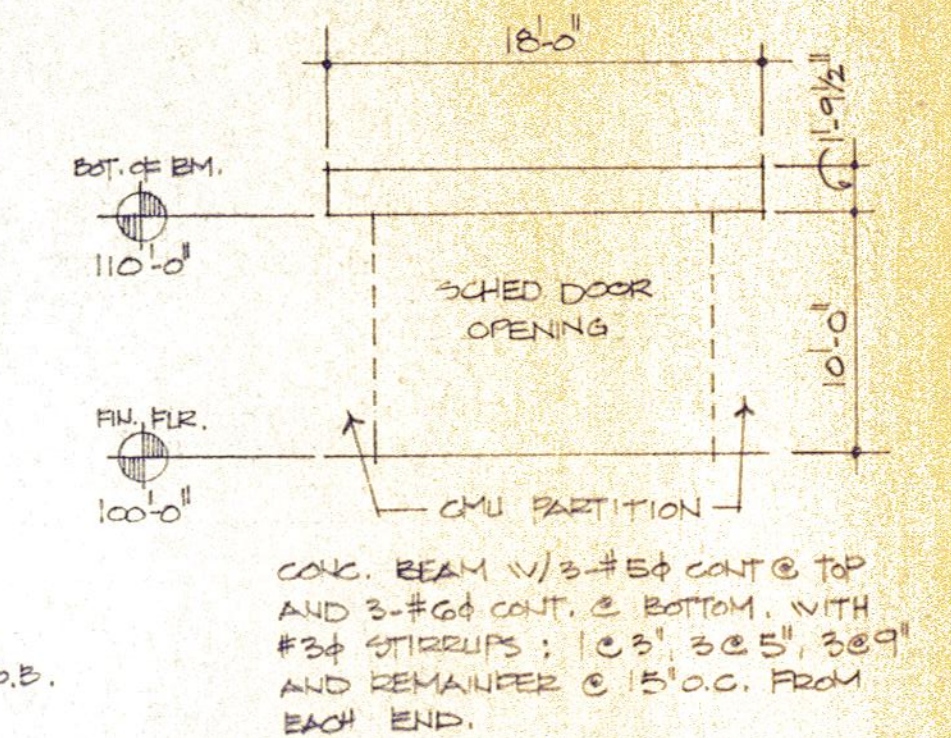
2 CONC. BEAM ELEV.

1/8" = 1'-0"

FOR ENTRY PORCH
FRAMING REFER
1#2 / A11.

FOR ENTRY PORCH
FRAMING REFER
1#2 / A11.

ALL COLUMNS IN THIS PLAN
(SECOND FLR. FRAMING UP TO
ROOF FRAMING) TO BE
W6X20 UNLESS OTHERWISE
NOTED.



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Wichita Falls, Texas

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MSM

DRAWN HACKBUSCH, J.

CHECKED GLOVER

DATE JULY 11, 1989

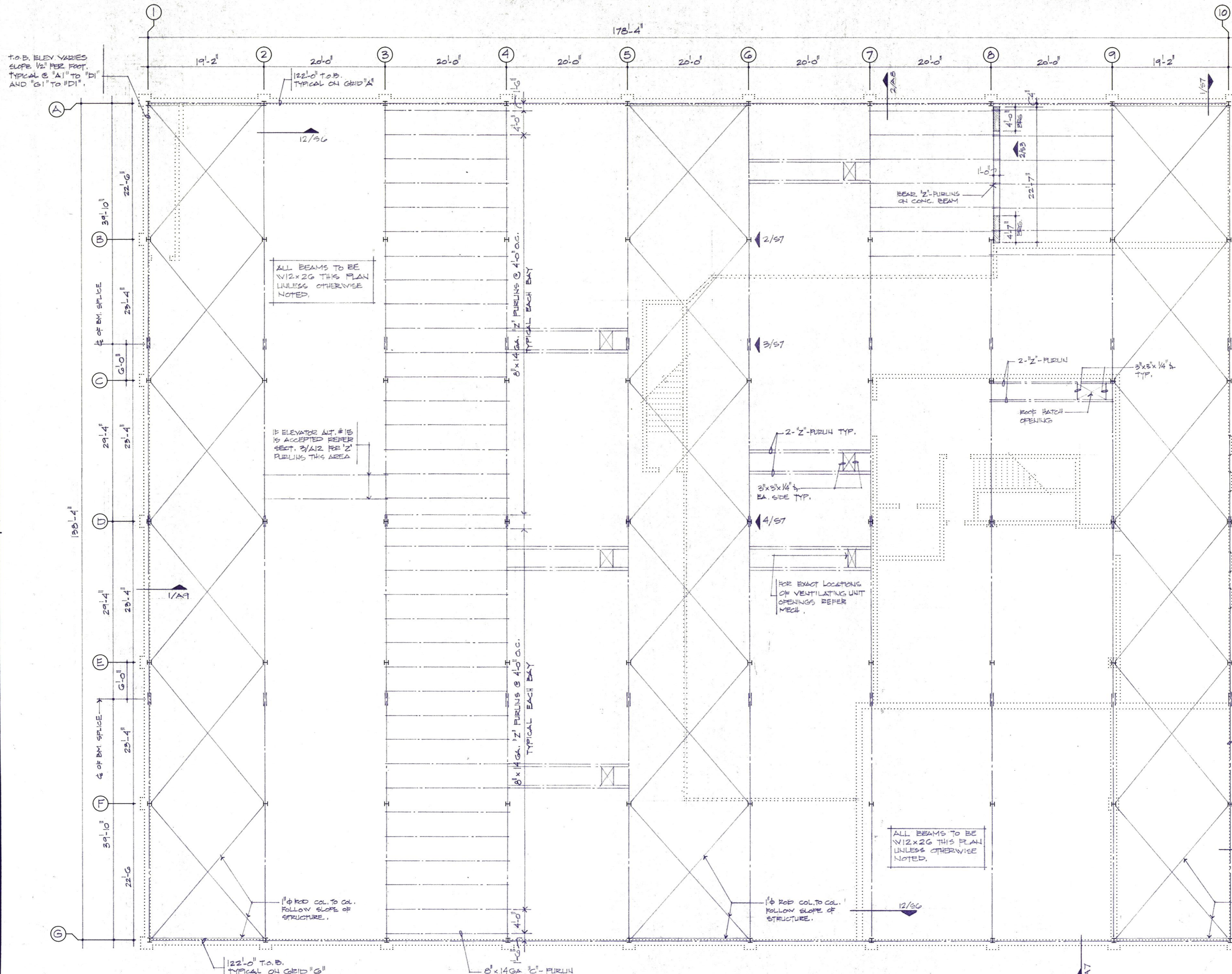
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SHEET

S2

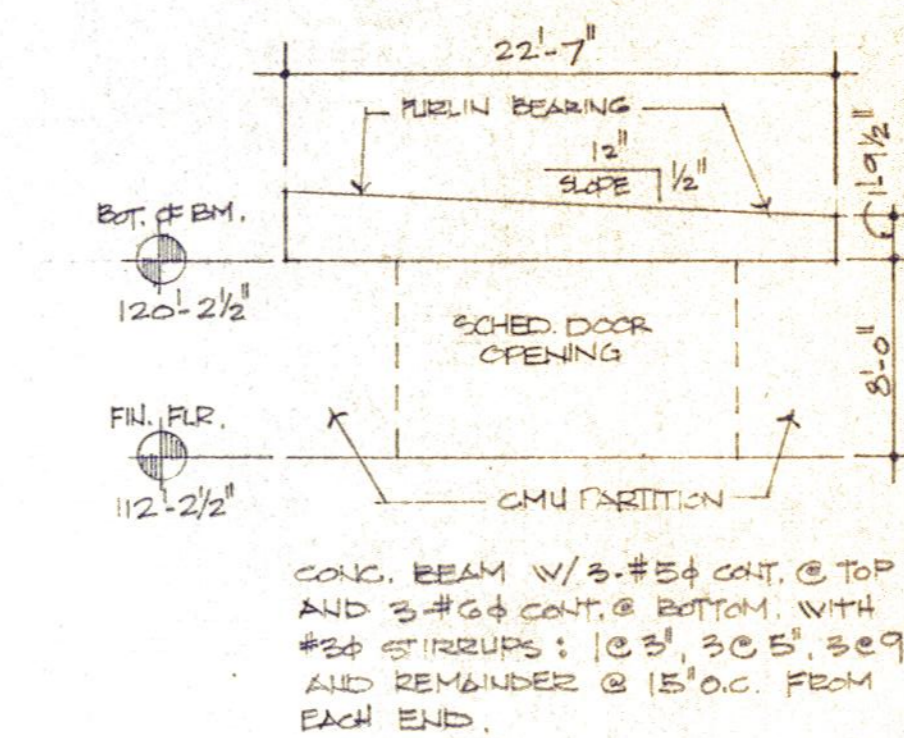
OF 7 VOLUME I

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1 ROOF FRAMING PLAN

1/8" = 1'-0"
 NOTE: MOST PURLINS NOT SHOWN FOR CLARITY.
 REFER TYPICAL BAY "A-3" TO "G-4".



2 CONC. BEAM ELEV.

1/8" = 1'-0"



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SHEET

S3

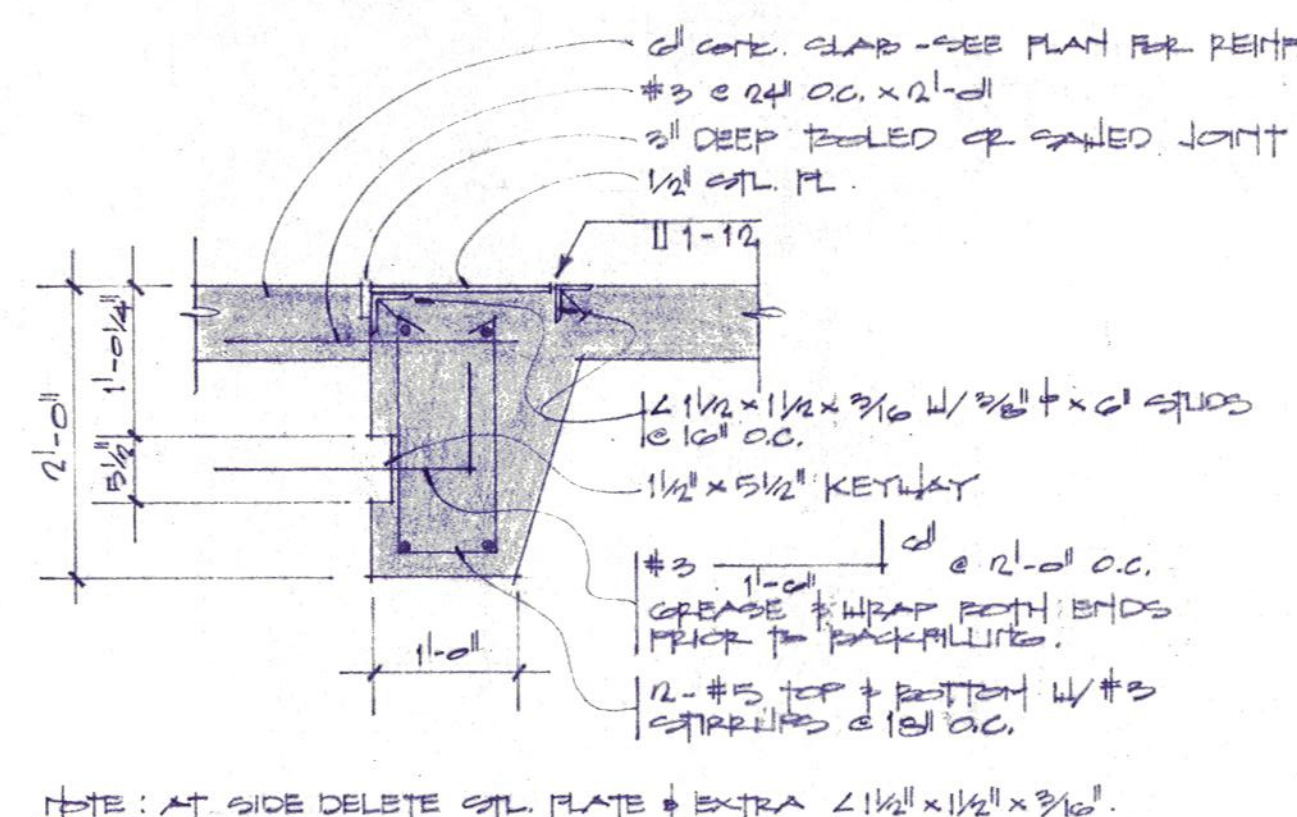
OF 7 VOLUME I

TYPE	BAR BENDING DIAGRAM						
	SUP'T	SPAN L1	SUP'T	SPAN L2	SUP'T	SPAN L3	SUP'T
	WIDTH	(CLR. SPAN)	WIDTH	(CLR. SPAN)	WIDTH	(CLR. SPAN)	WIDTH
a	2" CLR.			.2 x L1 OR .2 x L2 *			
b	6"		6"				
c	*.2 x L1 OR .2 x L2				.2 x L1 OR .2 x L2 *		
d	2" CLR.		2" CLR.				
e	2" CLR.	EMBEDMENT OR SPLICE LENGTH					
f	2" CLR.			2" CLR.			
g							
x							
y							

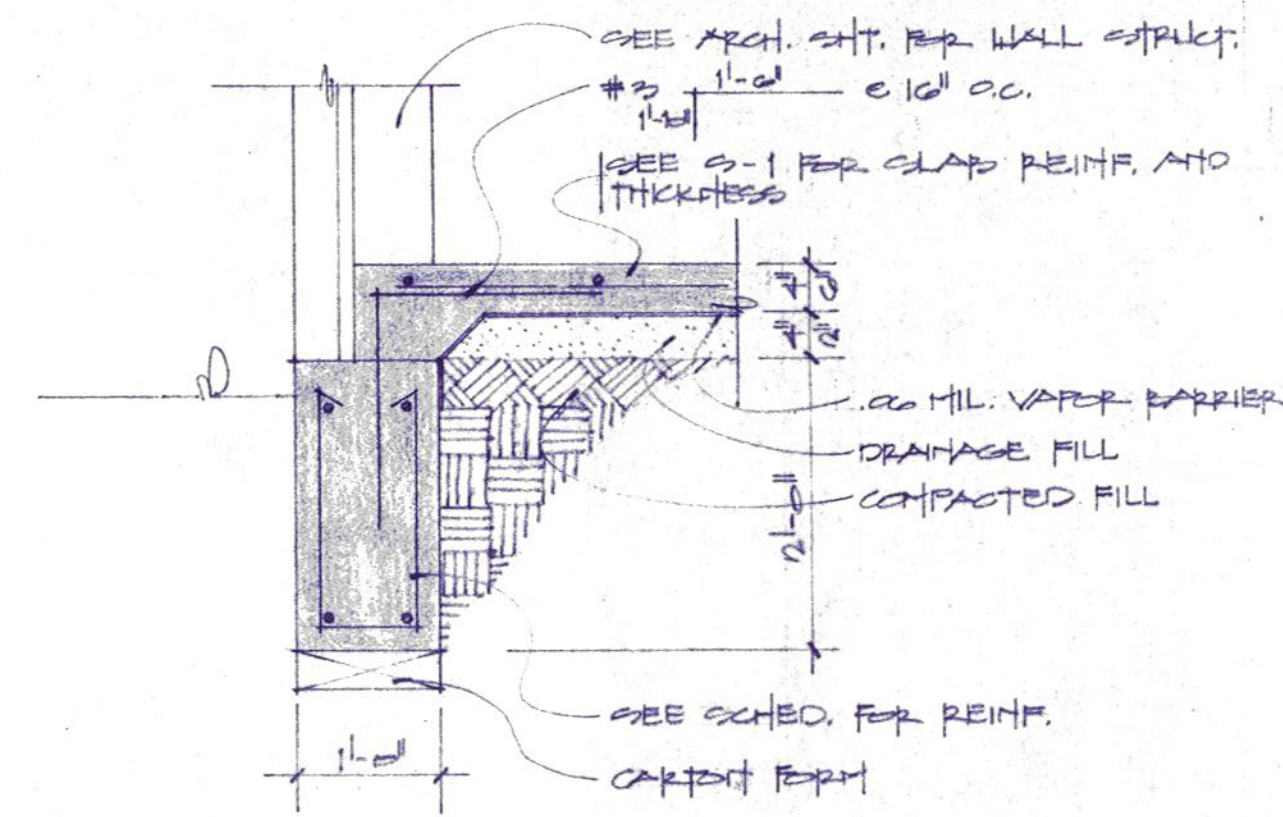
CONCRETE QUALITY SCHEDULE					
LOCATION	28 DAY STRENGTH LAB CURED CYLINDERS	28 DAY STRENGTH CORES	MAX. AGGREGATE SIZE	CEMENT SACKS / YRD.	SLUMP +- 1"
GRADE BEAMS, DECK FILL, SLABS, AND GRADE	3450	3000	3/4	6 1/2	3 1/2
DRILLED PIERS	3450	3000	1 1/2	5 1/2	5
BLOCK FILL & UNBELS	2875	2500	3/8	6 3/4	9
DESIGNS DO NOT CONSIDER ADDITIVES					

PIER SCHEDULE						
MK.	SHAFT DIA.	BELL DIA.	REINFORCING		EST. ELEV.	
			VERTICAL	TIES	TOP	BOTTOM
A	2'-0"	3'-0"	6-#8	#3@10"X	97.35	62.0
B	2'-0"	4'-0"	6-#8	#3@10"X	97.35	62.0
C	2'-0"	3'-0"	6-#8	#3@10"X	97.35	62.0
D	2'-0"	4'-0"	6-#8	#3@10"X	97.35	62.0
E	2'-0"	2'-0"	6-#8	#3@10"X	99.33	62.0
F	2'-0"	2'-0"	6-#8	#3@10"X	97.33	62.0
G	2'-0"	4'-0"	9-#8	#3@10"X	97.35	62.0
H	2'-0"	5'-0"	9-#8	#3@10"X	97.35	62.0
J	2'-0"	3'-0"	6-#8	#3@10"X	97.35	62.0
K	2'-0"	3'-0"	6-#8	#3@10"X	99.33	62.0
FOOTINGS SHALL BEAR ON SHALE						

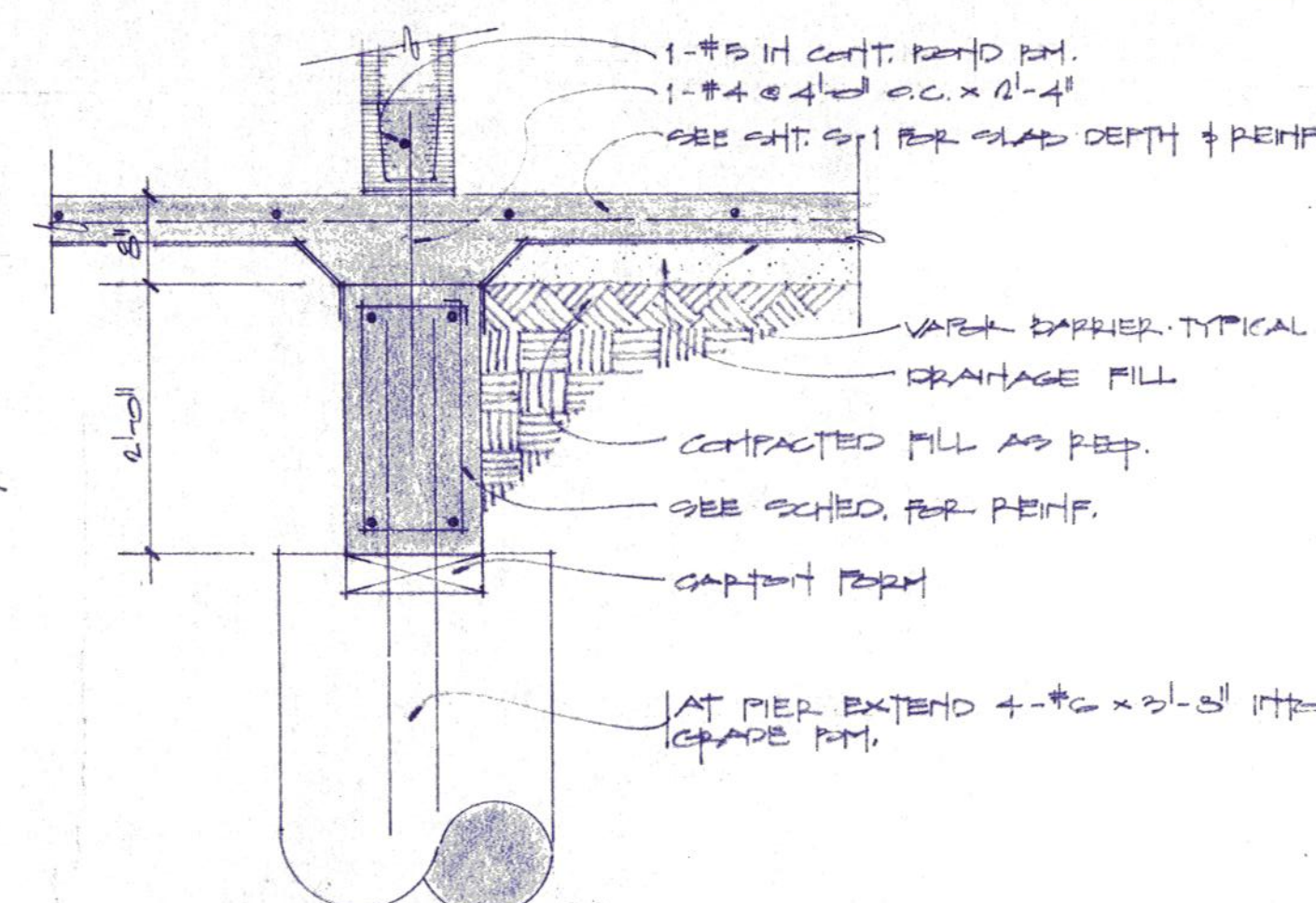
GRADE BEAM SCHEDULE											
BEAM		BOTTOM		INTER. REINF.	TOP		STIRRUPS (REFER STIRRUP DIAGRAM)			REMARKS	
MK.	W	D	REINF.		REINF.	TYPE	SIZE	TYPE	SP. FROM EA. END		
GB1	12	24	2-#6	b	—	2-#4	a	#3	X	1@2.4@10, BAL @ 24	
GB2	12	24	2-#6	b	—	2-#4	c	#3	X	1@2.4@10, BAL @ 24	
GB3	12	24	2-#6	b	—	2-#4	a	#3	X	1@2.4@10, BAL @ 24	
GB4	12	24	2-#6	b	—	2-#4	c	#3	X	1@2.4@10, BAL @ 24	
GB5	12	24	3-#7	b	—	2-#4	c	#3	Y	1@2.9@10, BAL @ 24	
GB6	12	24	3-#7	b	—	2-#7	c	#3	Y	1@2, BAL @ 10	
GB7	12	24	2-#6	b	—	2-#4	a	#3	X	1@2.5@10, BAL @ 24	
GB8	12	24	2-#6	b	—	2-#4	c	#3	X	1@2.5@10, BAL @ 24	
GB9	12	24	2-#6	b	—	2-#5	c	#3	Y	1@2.4@10, BAL @ 24	BEND C-BARS TO BM SHAPE
GB10	12	24	2-#7	b	—	2-#6	c	#3	X	1@2.9@10, BAL @ 24	
GB11	12	24	2-#8	b	—	2-#7	c	#3	X	1@2.9@10, BAL @ 24	
GB12	12	24	2-#8	b	—	2-#5	c	#3	X	1@2, BAL @ 10	BEND C-BARS TO BM SHAPE
GB13	12	24	2-#6	b	—	2-#5	c	#3	X	1@2.5@10, BAL @ 24	BEND C-BARS TO BM SHAPE
GB14	12	24	2-#6	b	—	2-#5	c	#3	Y	1@2.7@10, BAL @ 24	
GB15	12	24	2-#6	b	—	2-#4	c	#3	Y	1@2.6@10, BAL @ 24	
GB16	12	24	2-#6	b	—	2-#5	a	#3	Y	1@2.6@10, BAL @ 24	
GB17	12	24	3-#8	b	—	2-#7	a	#3	Y	1@2.9@10, BAL @ 24	
GB18	12	24	2-#8	b	—	2-#7	c	#3	Y	1@2.9@10, BAL @ 24	
GB19	12	24	2-#8	b	—	2-#7	c	#3	Y	1@2.10@10, BAL @ 24	
GB20	12	24	2-#6	b	—	2-#7	c	#3	Y	1@2, BAL @ 10	
GB21	12	24	3-#8	b	—	2-#8	d	#3	Y	1@2.0@10, BAL @ 24	
GB22	12	24	3-#6	b	—	2-#5	a	#3	Y	1@2.2@10, BAL @ 24	
GB23	12	24	2-#7	b	—	2-#5	a	#3	Y	1@2.10@10, BAL @ 24	
GB24	12	24	2-#6	b	—	2-#5	a	#3	Y	1@2.8@10, BAL @ 24	
GB25	12	24	3-#7	b	—	2-#6	a	#3	Y	1@2.9@10, BAL @ 24	
GB26	12	24	2-#7	b	—	2-#6	c	#3	X	1@2.8@10, BAL @ 24	
GB27	12	24	2-#5	b	—	2-#5	d	#3	X	1@2, BAL @ 24	
GB28	12	24	3-#7	b	—	2-#7	d	#3	X	1@2.7@10, BAL @ 24	
GB29	12	24	2-#7	b	—	2-#6	d	#3	Y	1@2, BAL @ 10	
GB30	12	24	2-#5	b	—	2-#5	d	#3	X	1@2, BAL @ 24	
GB31	12	24	3-#5	b	—	2-#6	d	#3	Y	1@2.6@10, BAL @ 24	
GB32	12	24	3-#8	b	—	2-#6	a	#3	X	1@2.4@10, BAL @ 24	
GB33	12	24	2-#6	b	—	2-#6	a	#3	Y	1@2.9@10, BAL @ 24	
GB34	12	24	2-#6	g	—	2-#8	f	#3	Y	1@2, BAL @ 6	
GB35	20	24	3-#6	b	—	2-#6	d	#3	X	1@2.8@10, BAL @ 24	
GB36	20	24	2-#6	b	—	2-#4	d	#3	X	1@2, BAL @ 24	



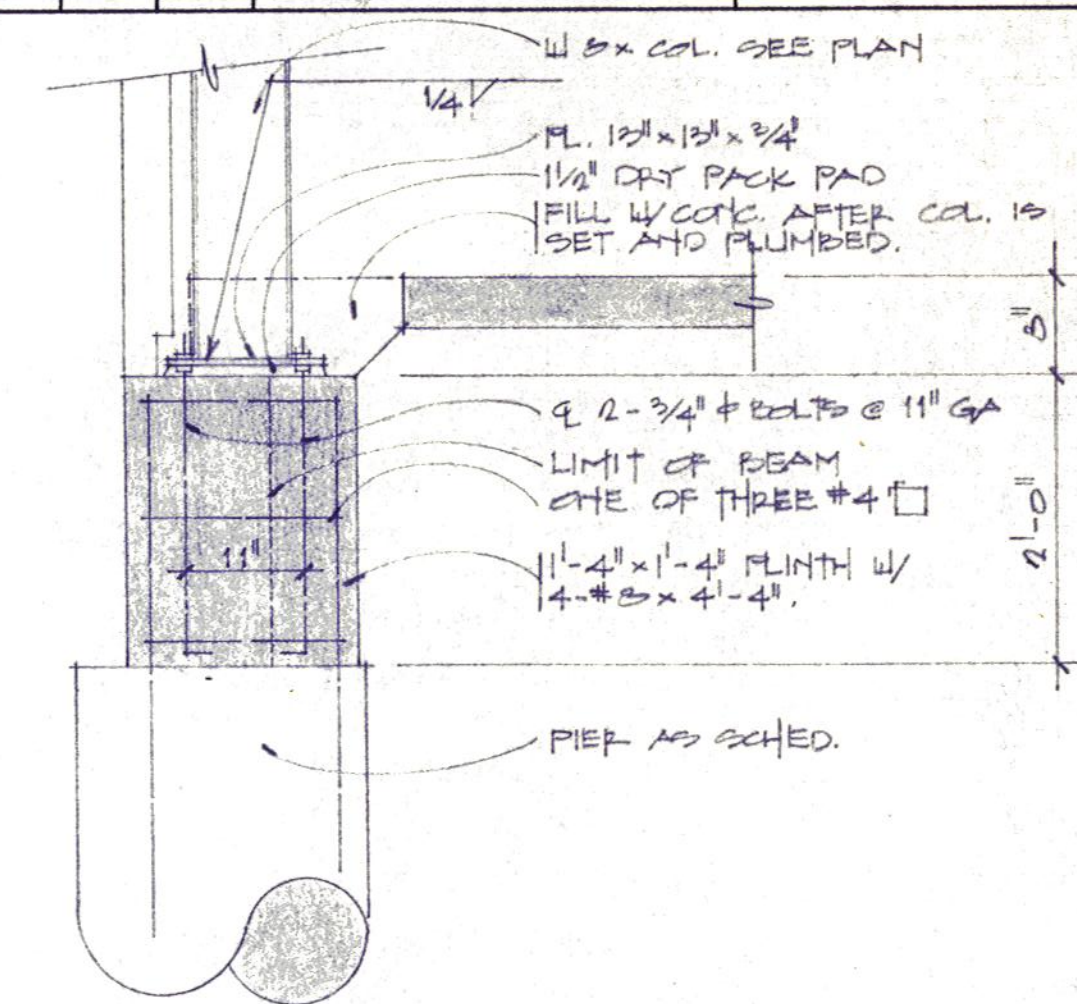
1 DETAIL
3/4" = 1'-0"



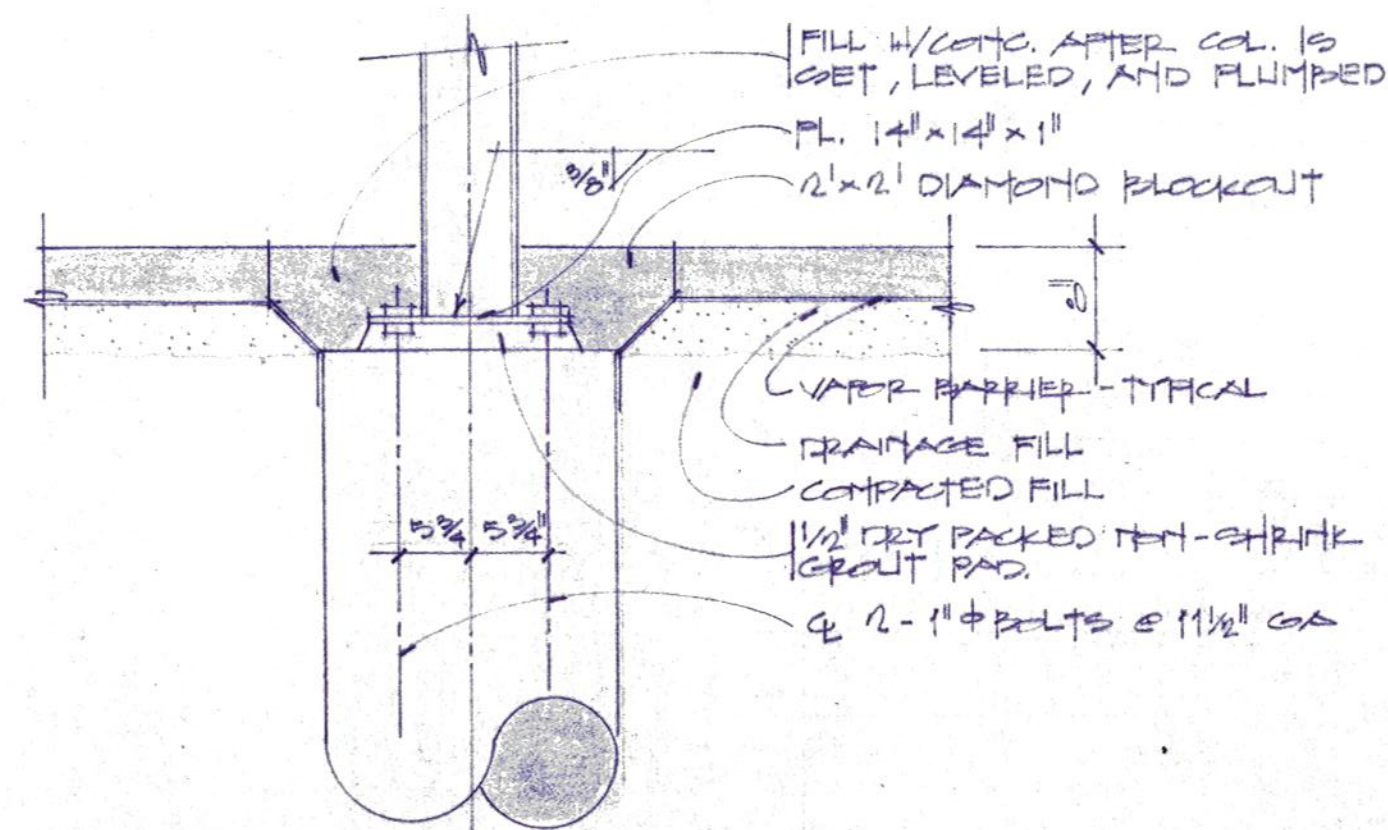
2 DETAIL
3/4" = 1'-0"



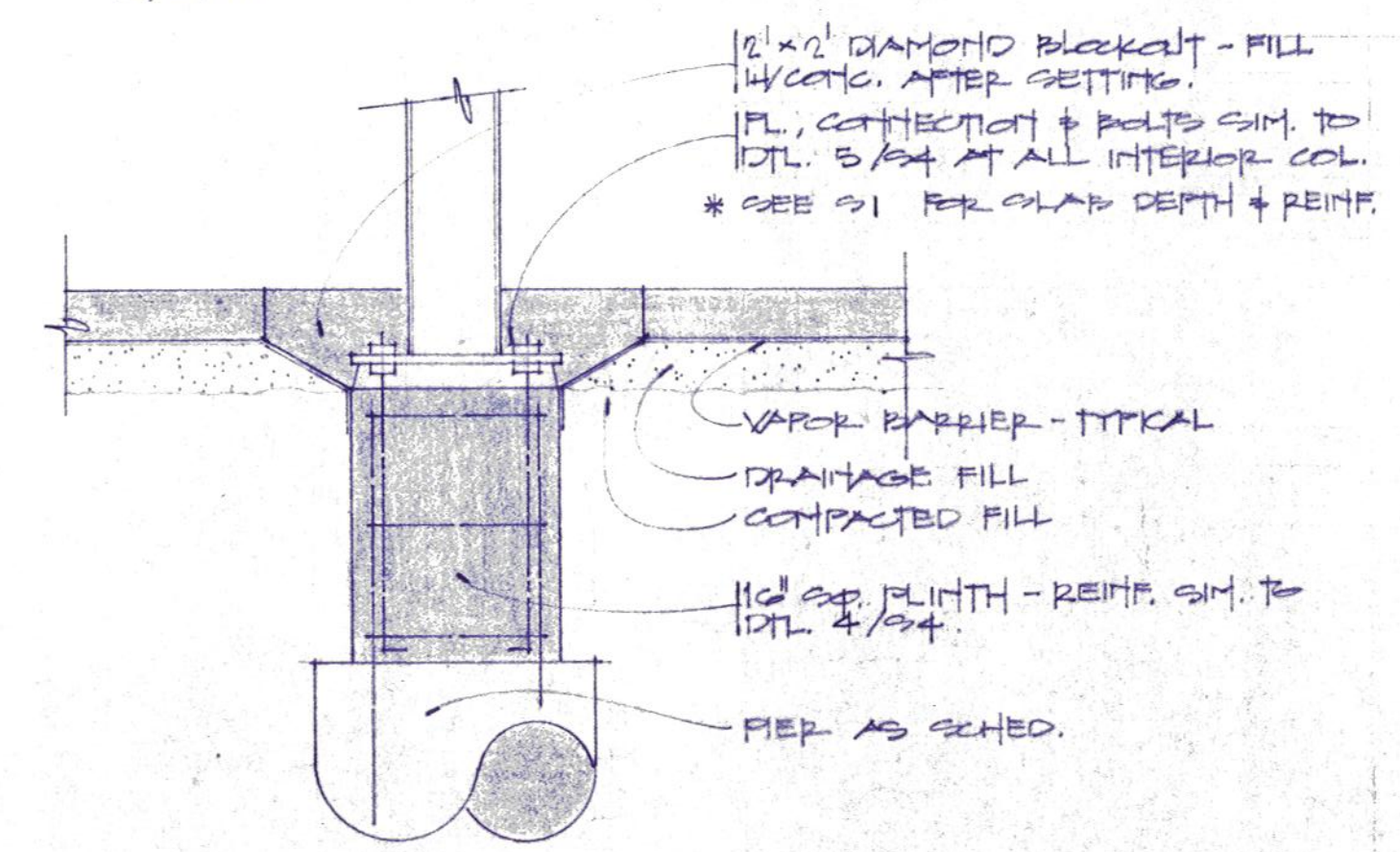
3 DETAIL
3/4" = 1'-0"



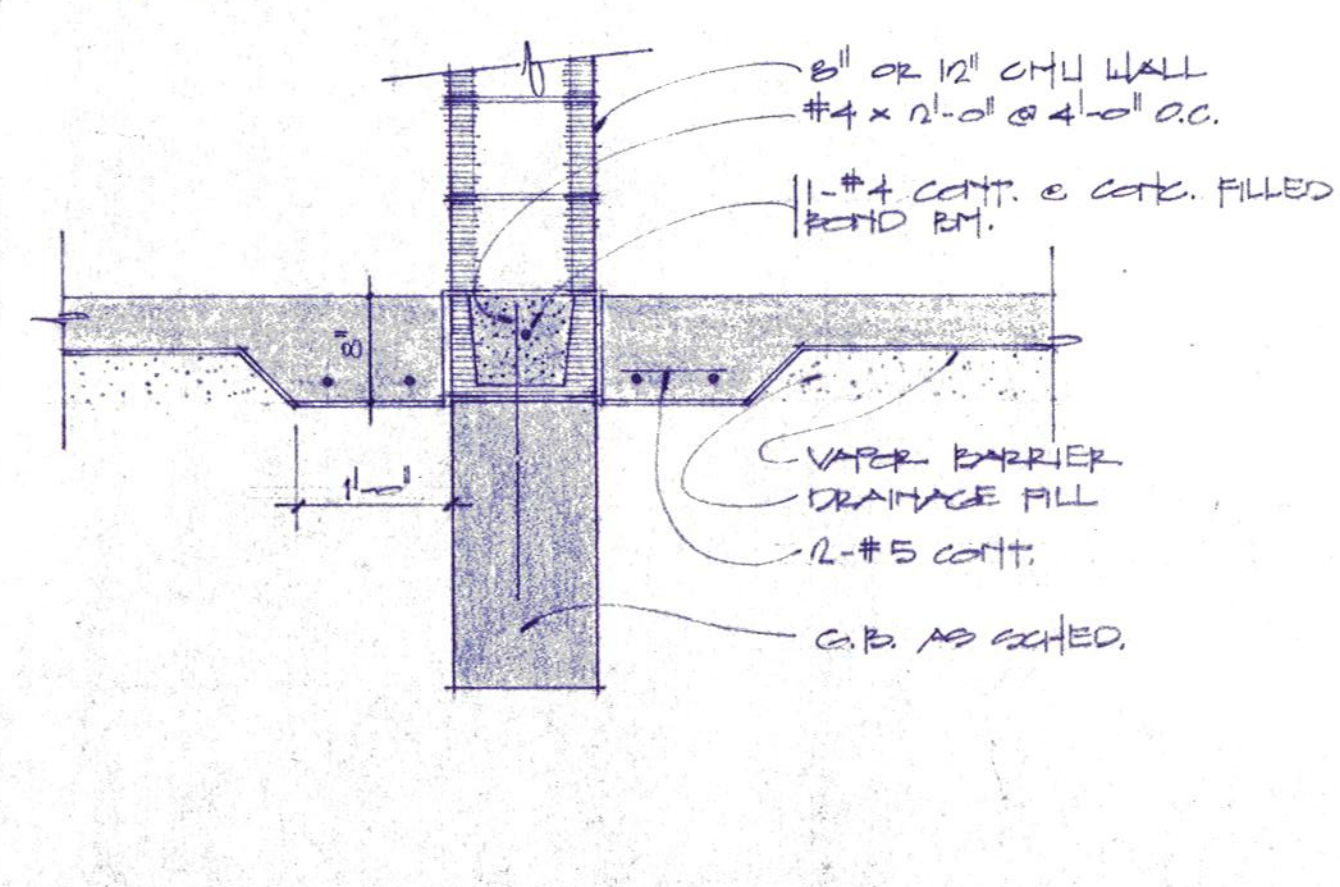
4 DETAIL
3/4" = 1'-0"



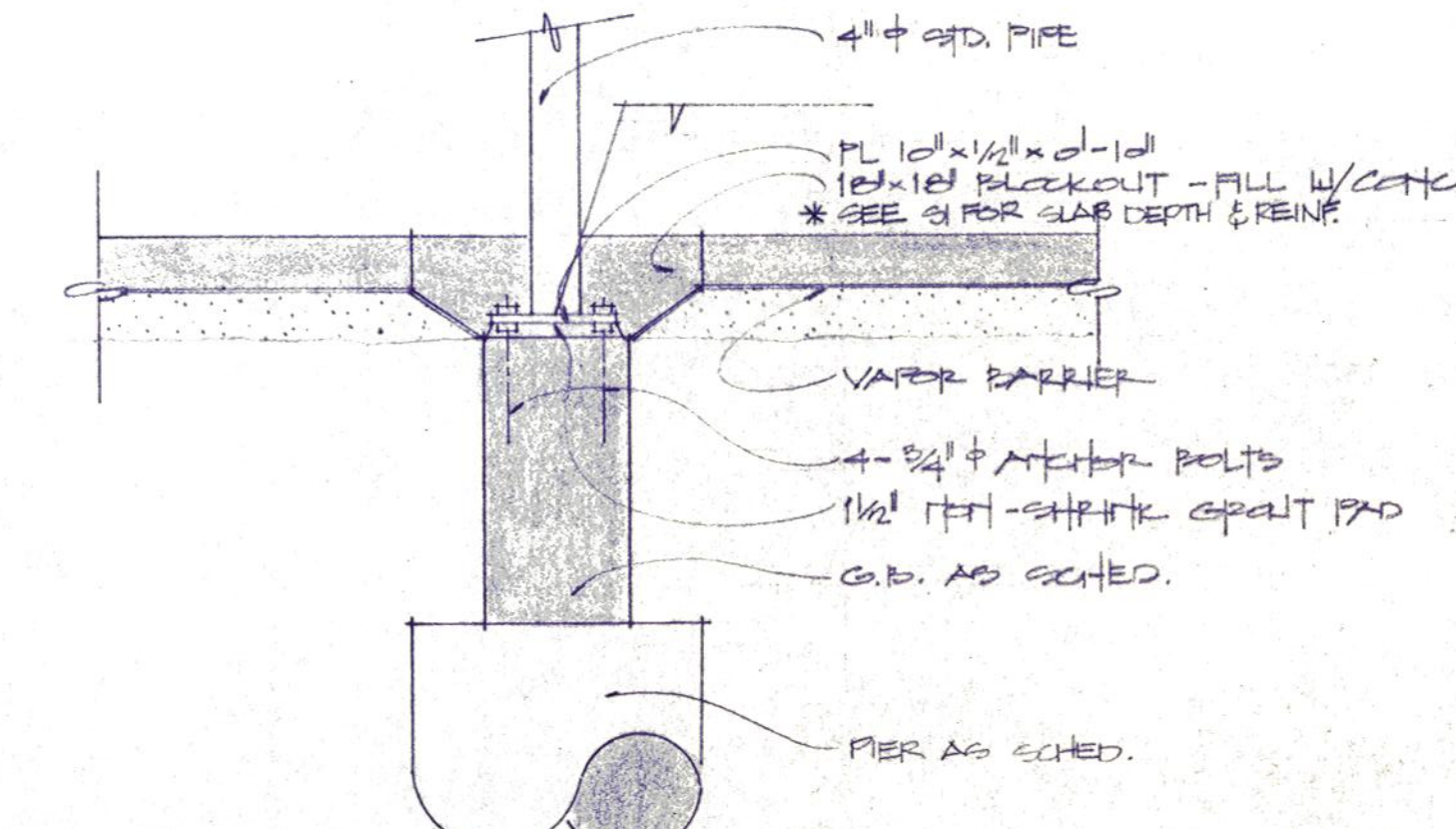
5 DETAIL
3/4" = 1'-0"



6 DETAIL
3/4" = 1'-0"



7 DETAIL
3/4" = 1'-0"



8 DETAIL
3/4" = 1'-0"



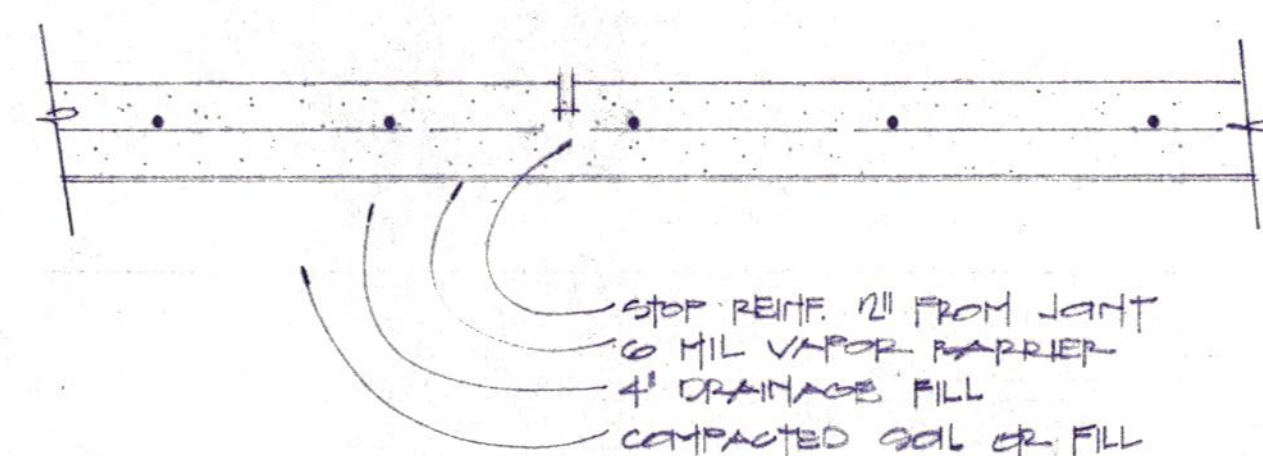
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DATE JULY 11, 1989
JOB NUMBER 8907
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OF 7 VOLUME 1
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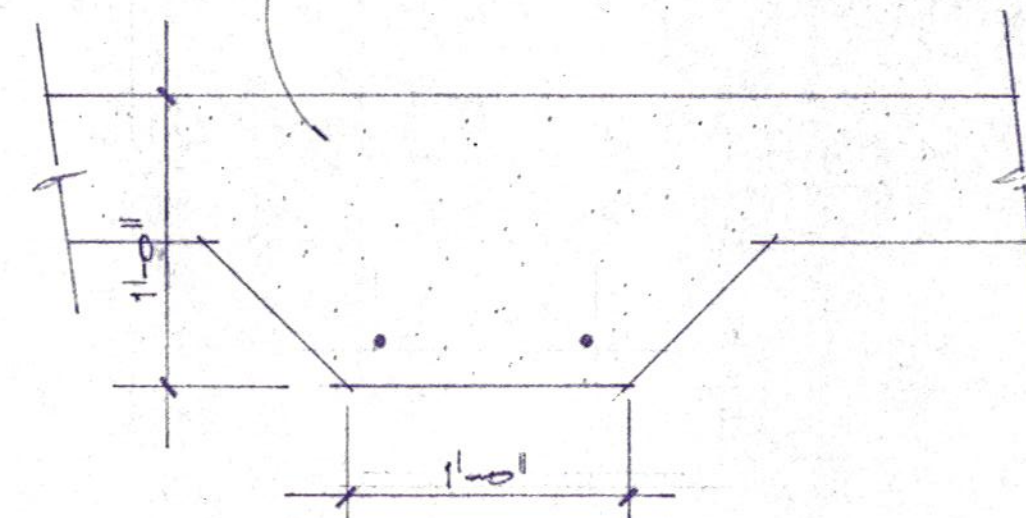
1/2" x 1" DEEP TROWLED OR SAWED JT.



1 TYPICAL CONTROL JOINT

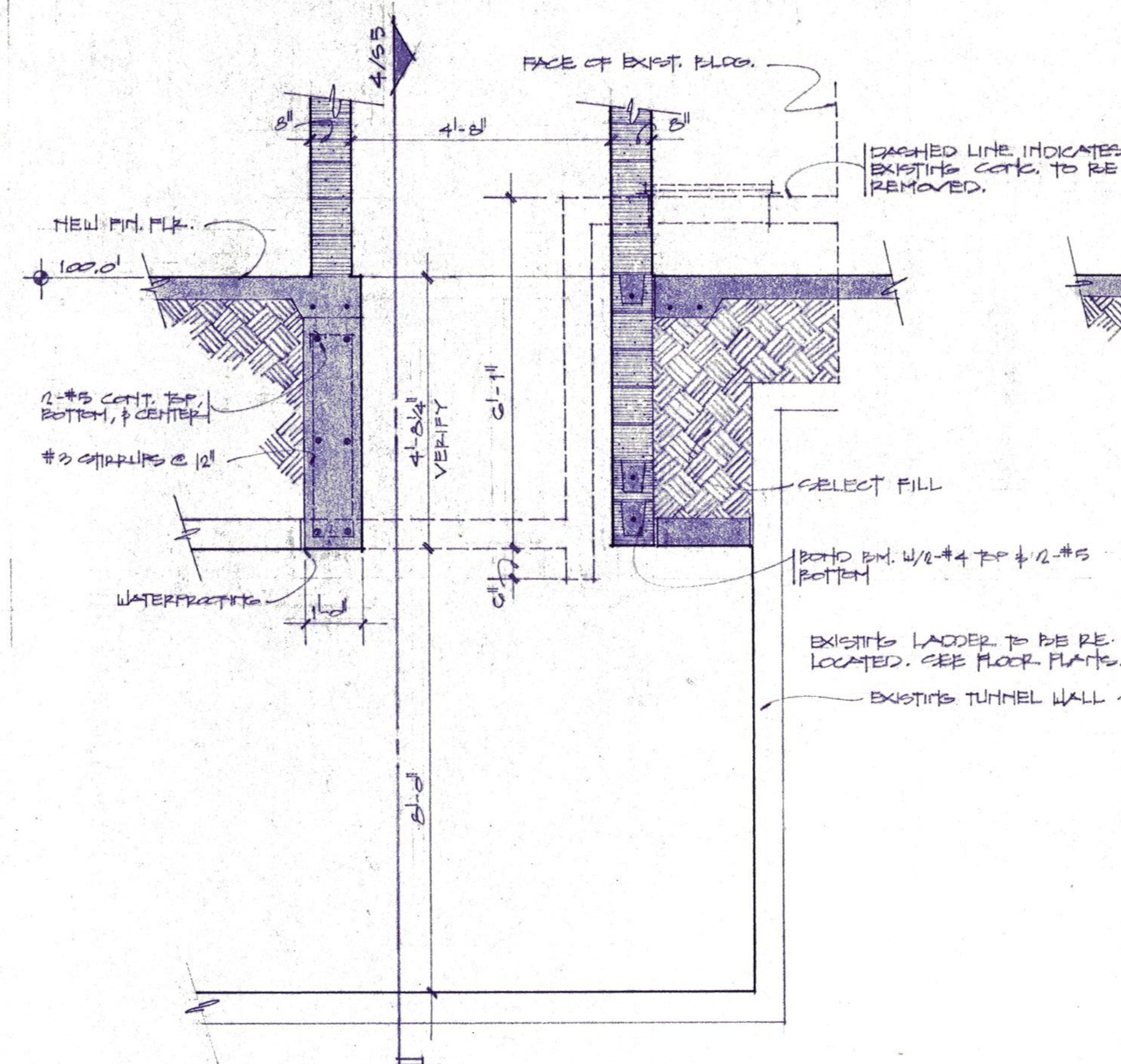
1/2" = 1'-0"

PROVIDE TYPICAL THICKENED SLAB 4" W/ 2-#5 @ 12" BOTTOM UNDER ALL MASONRY WALLS NOT SUPPORTED ON GRADE RM.



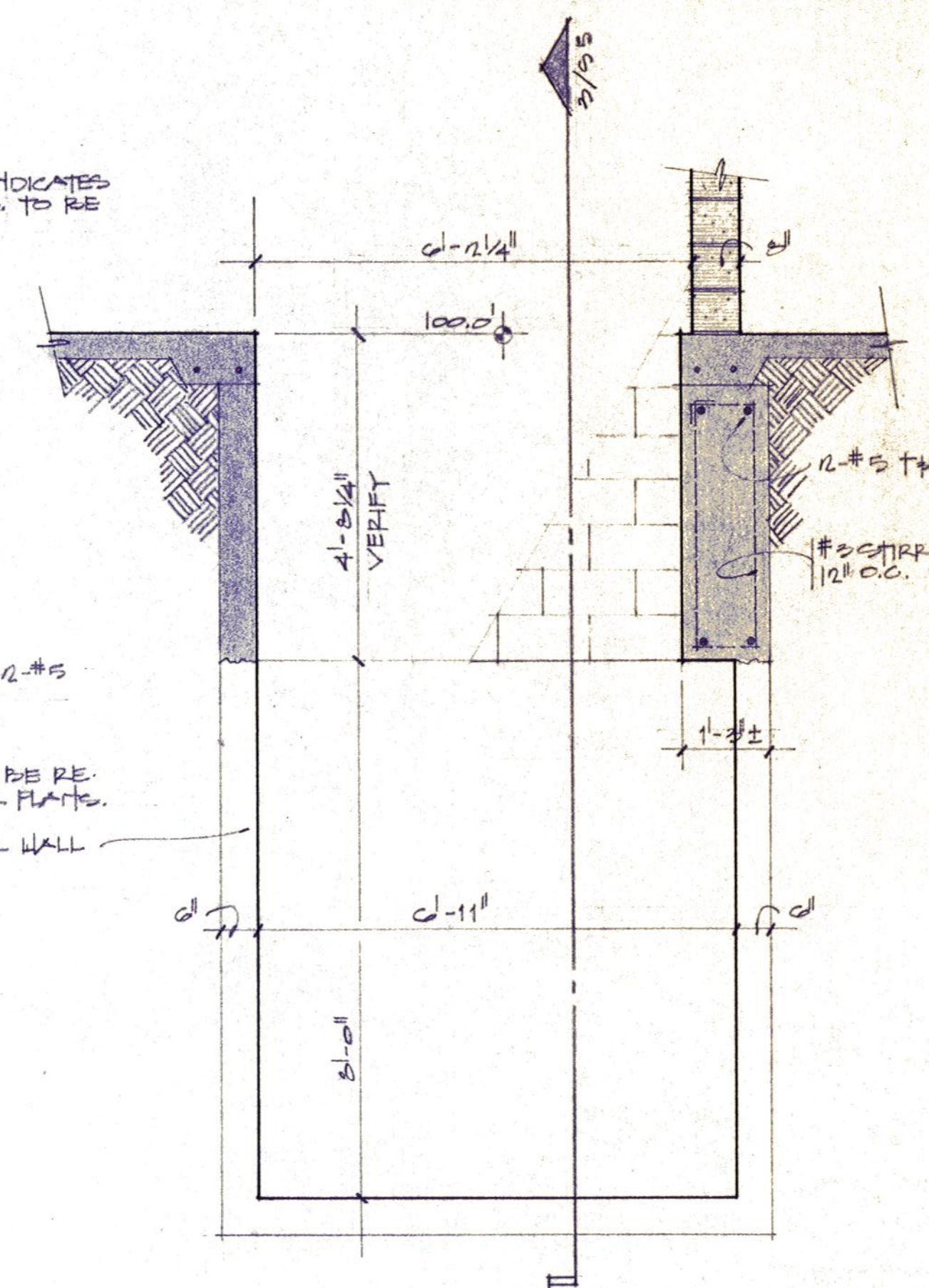
2 DETAIL - TYP. @ THICKENED SLAB

1/2" = 1'-0"



3 SECTION AT TUNNEL

1/2" = 1'-0"



4 SECTION AT TUNNEL

1/2" = 1'-0"



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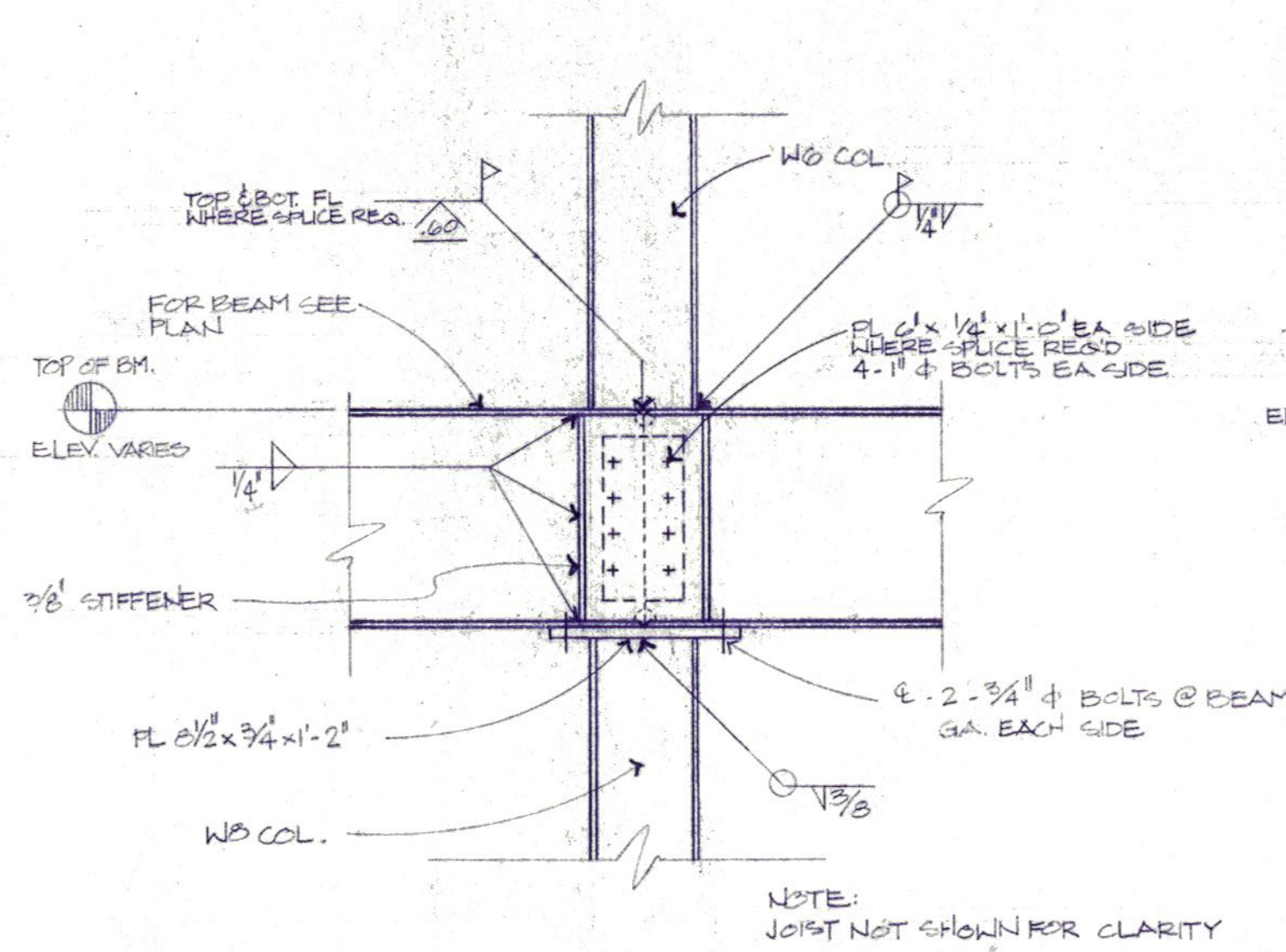
DATE JULY 11, 1989

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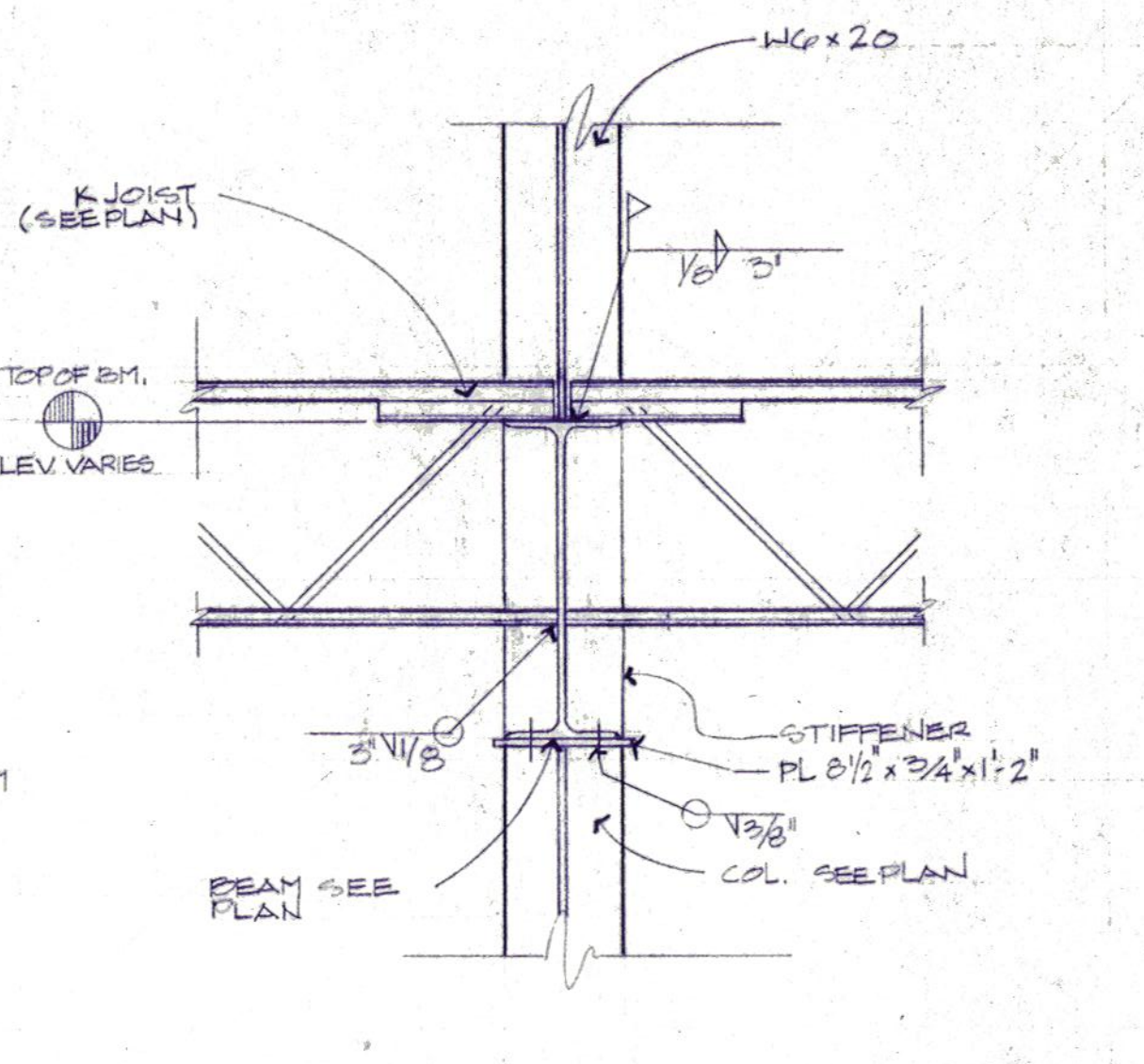
SHEET

S5

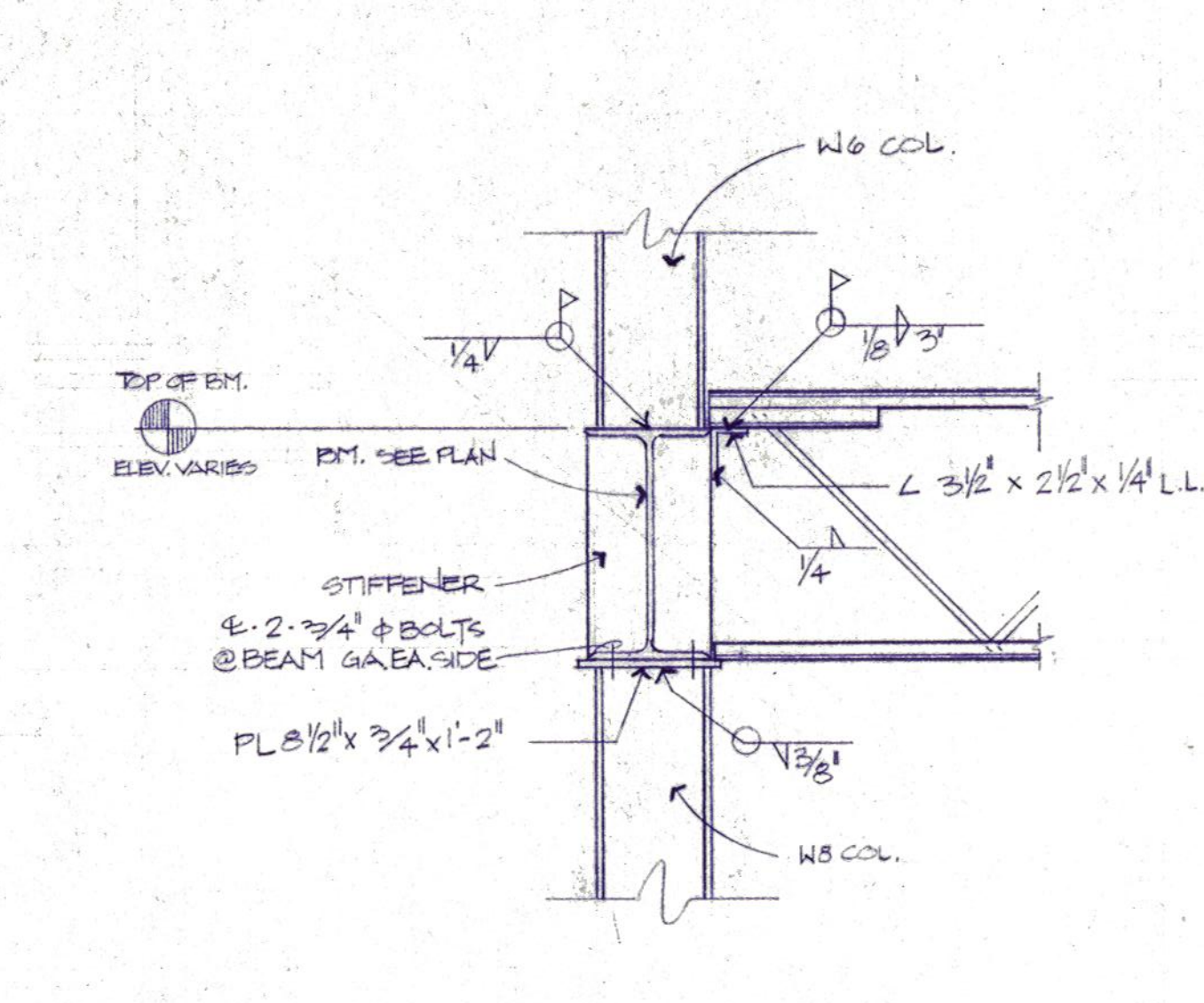
OF 7 VOLUME I



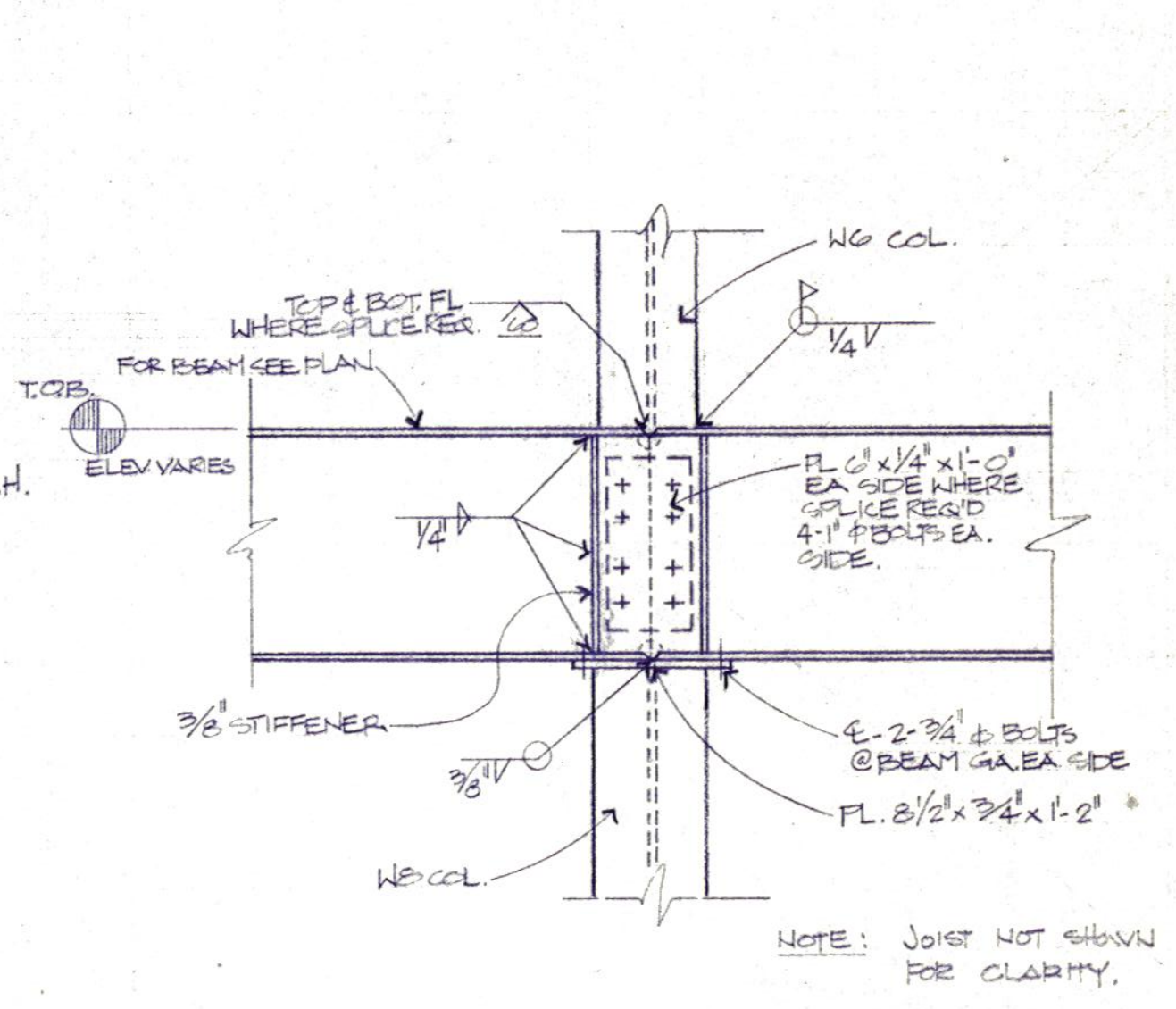
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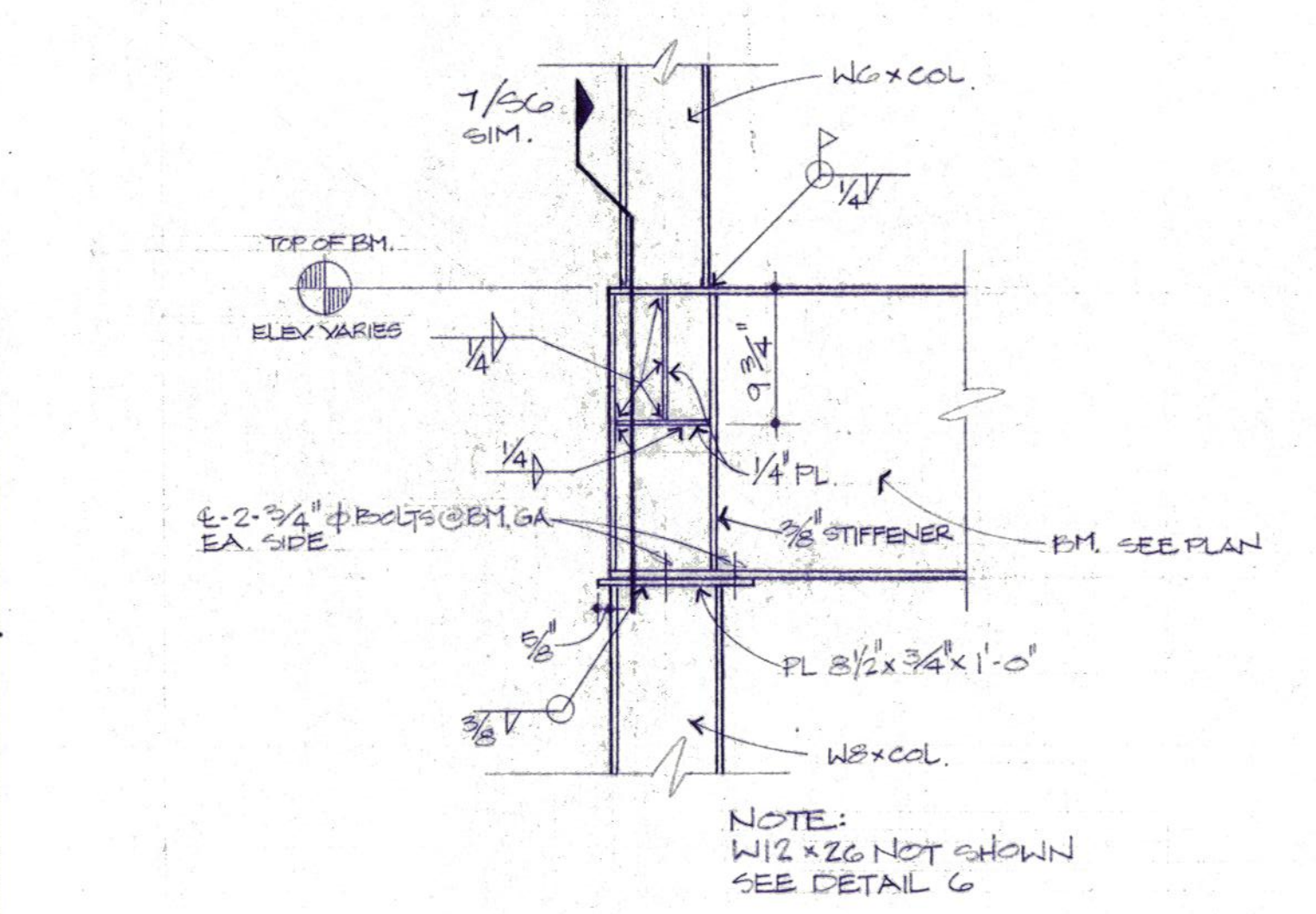
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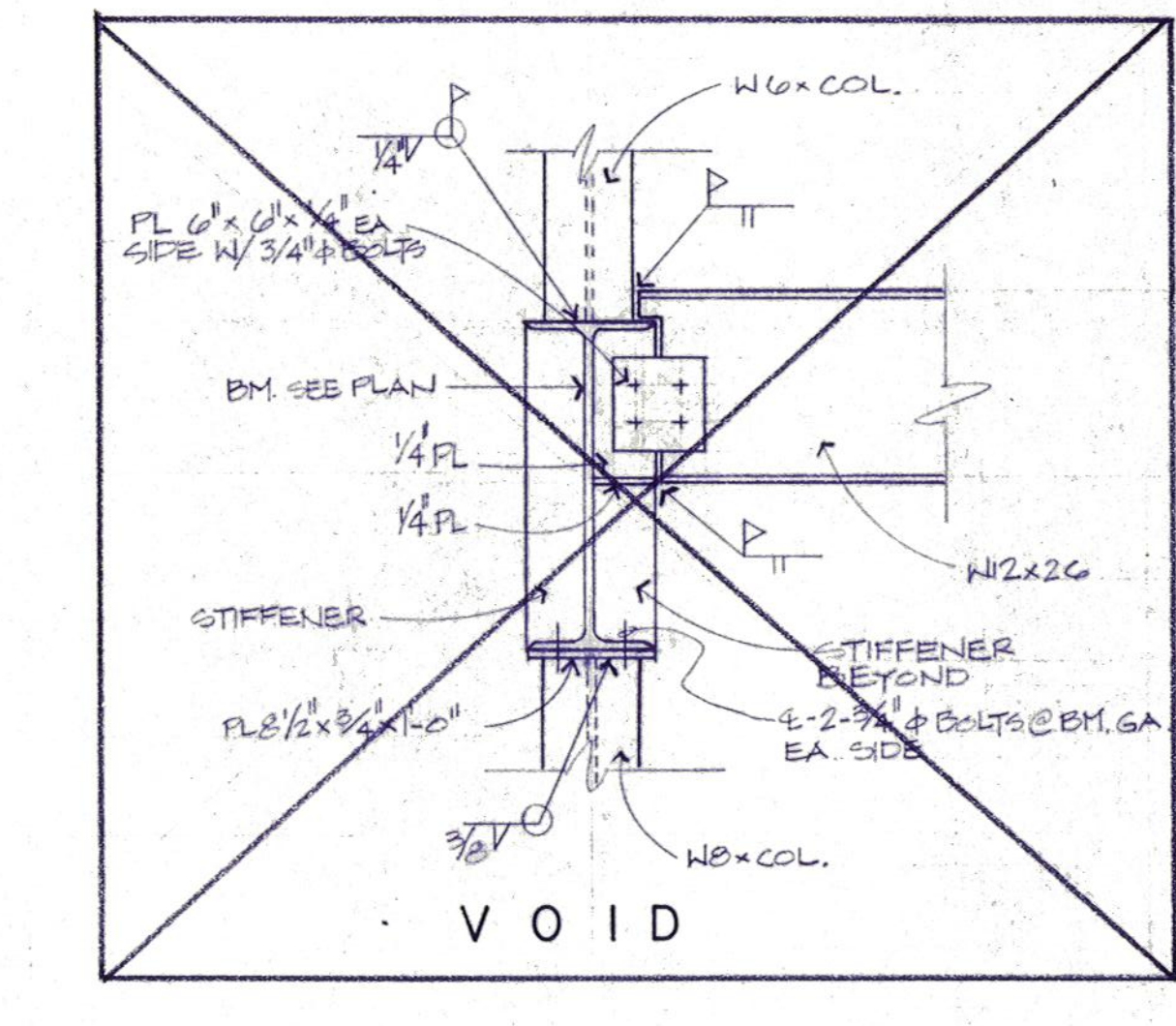
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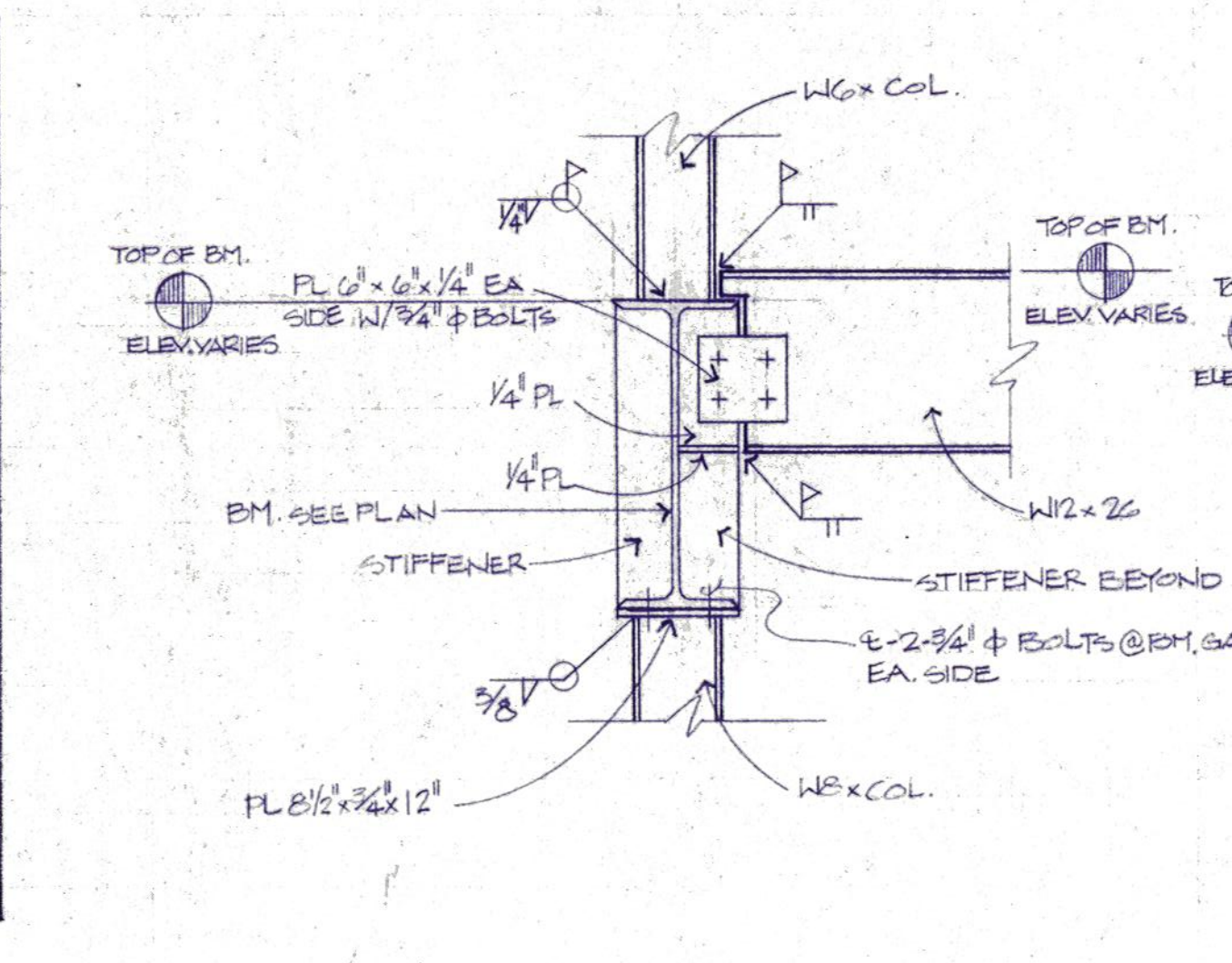
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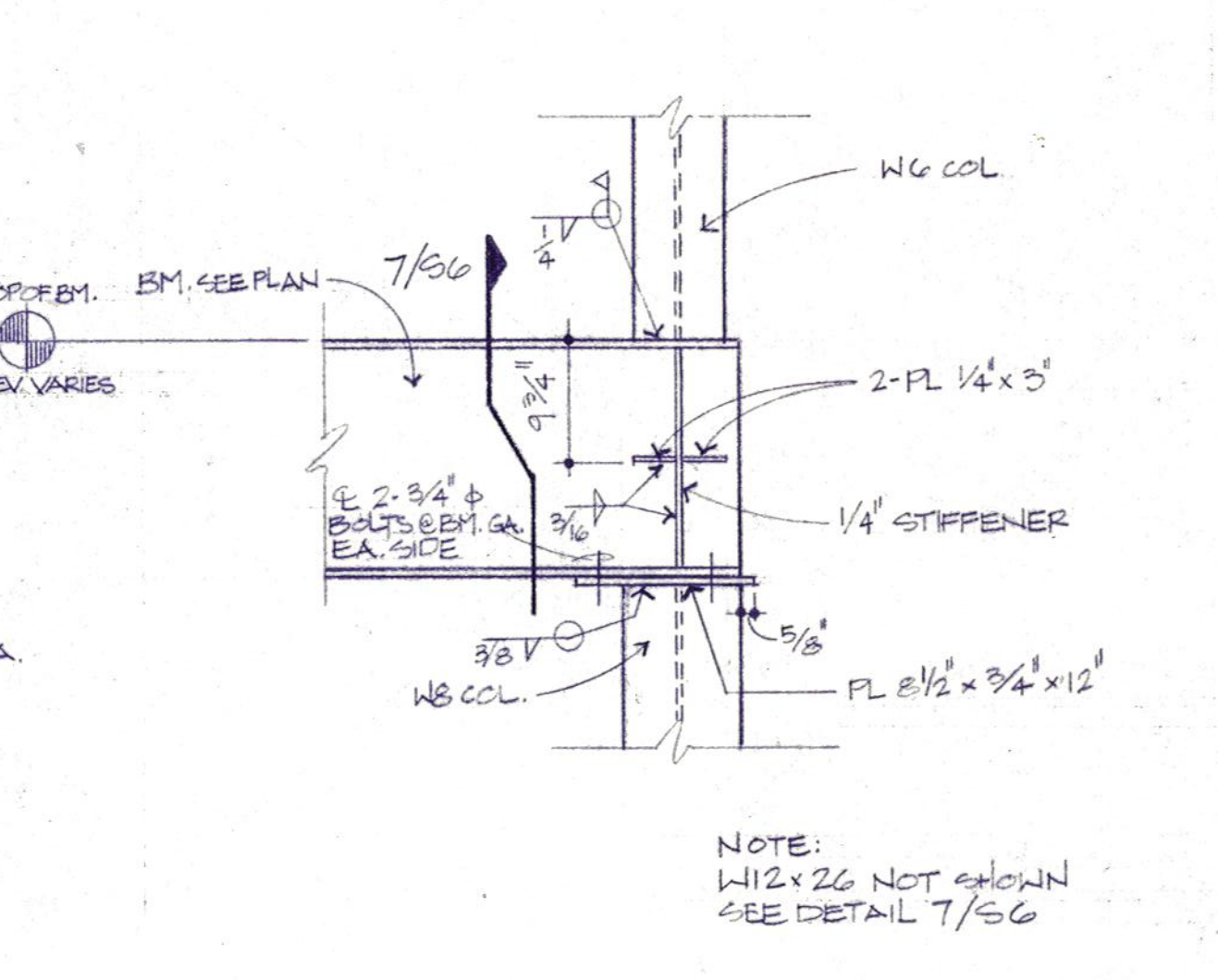
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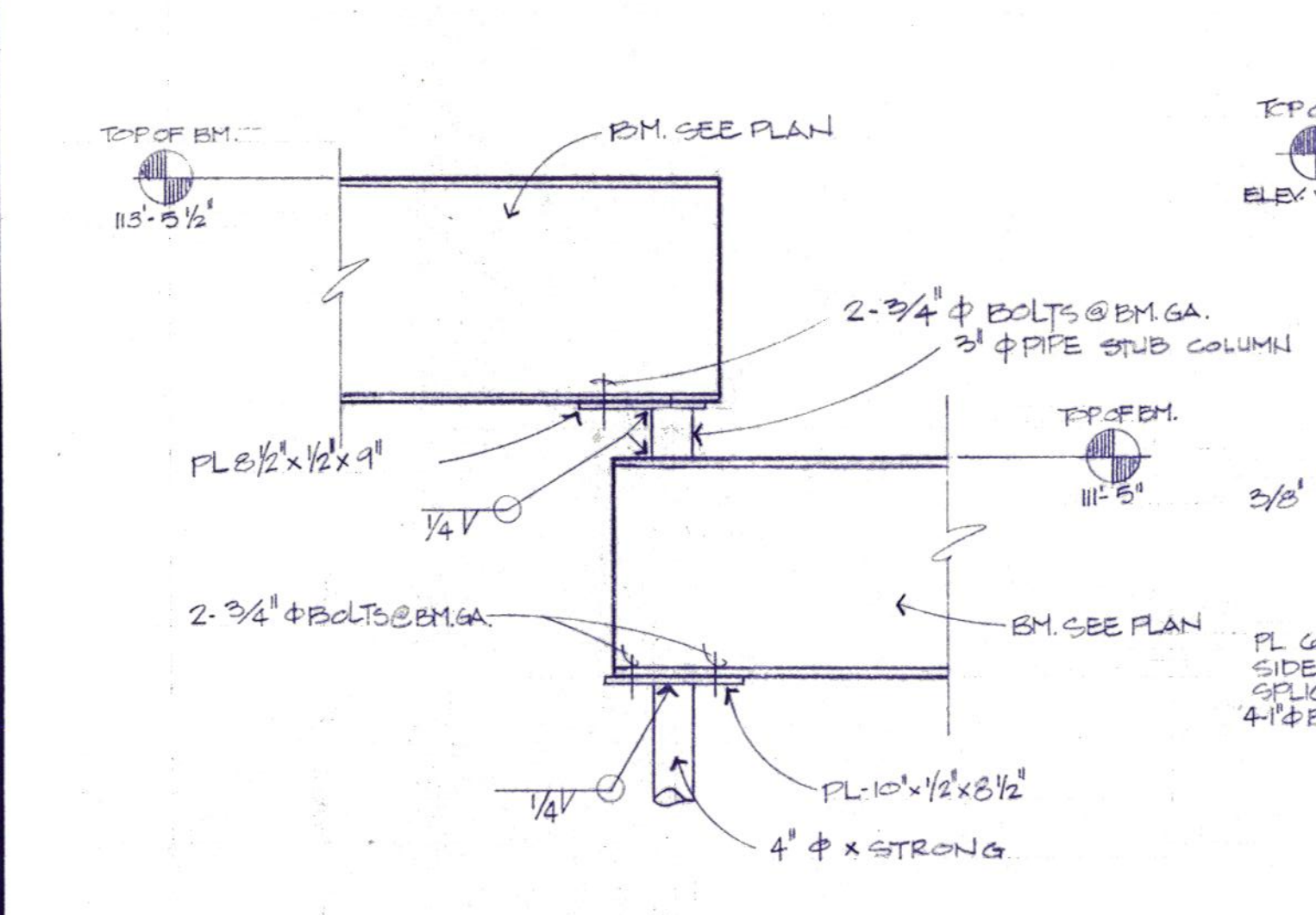
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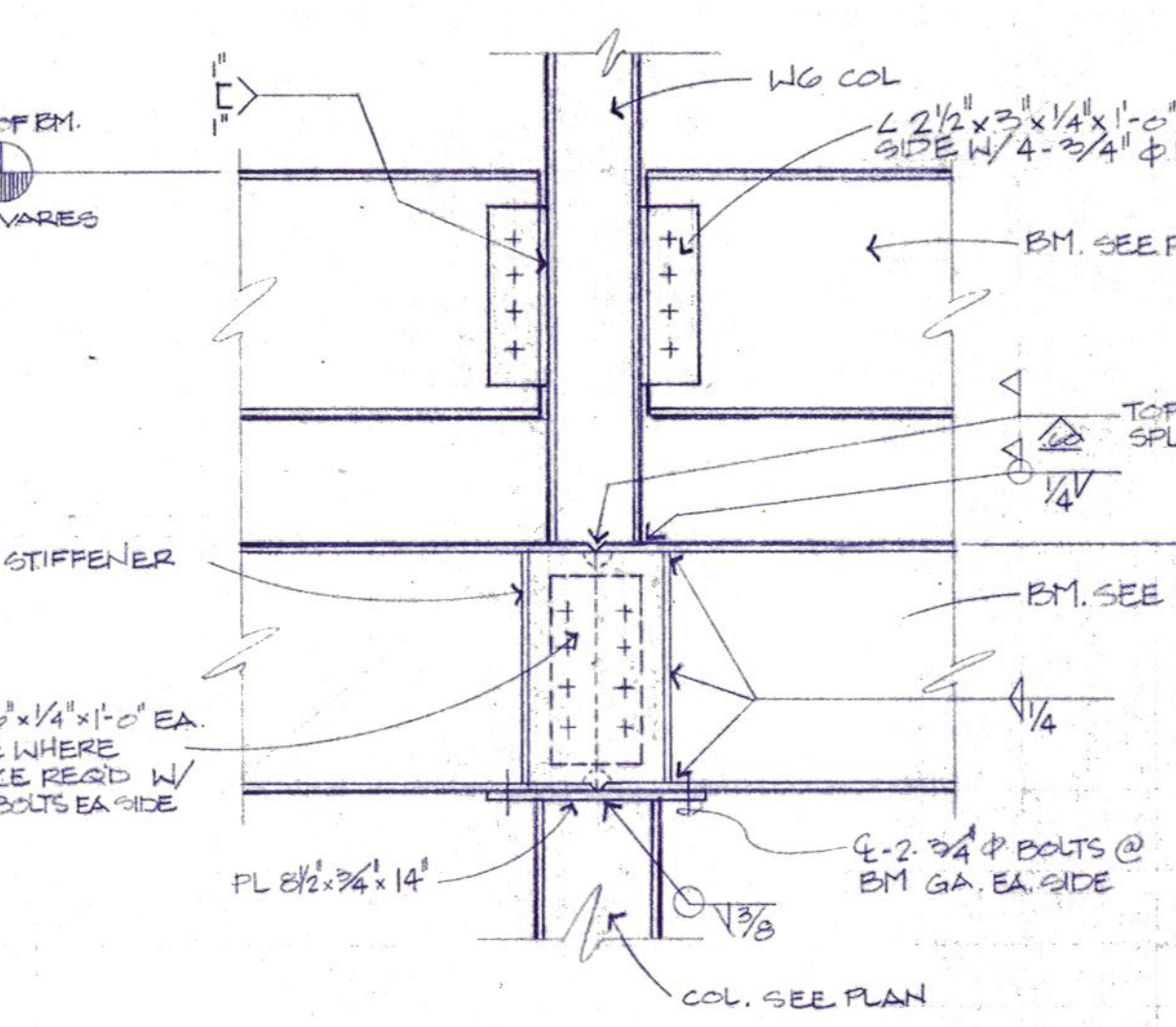
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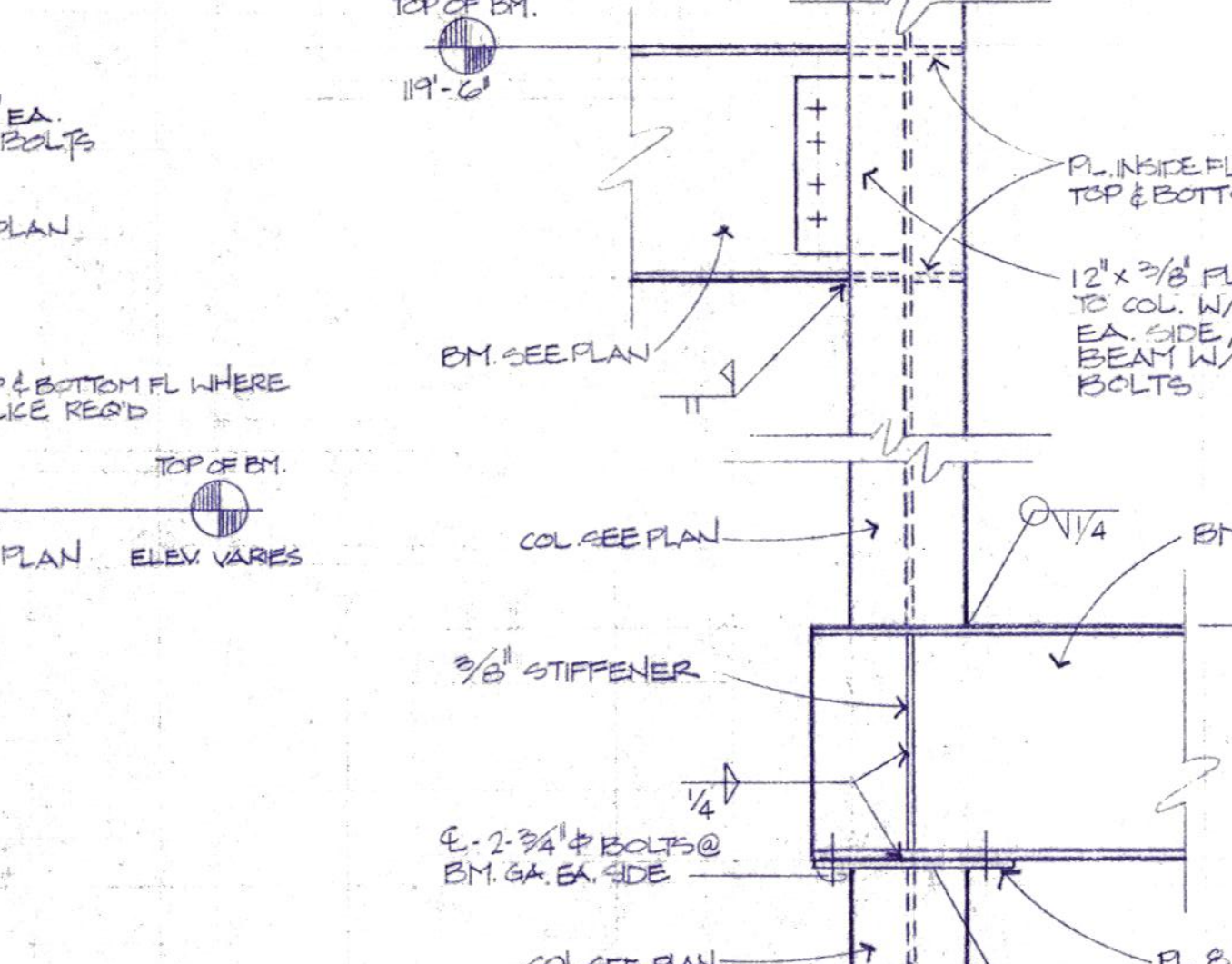
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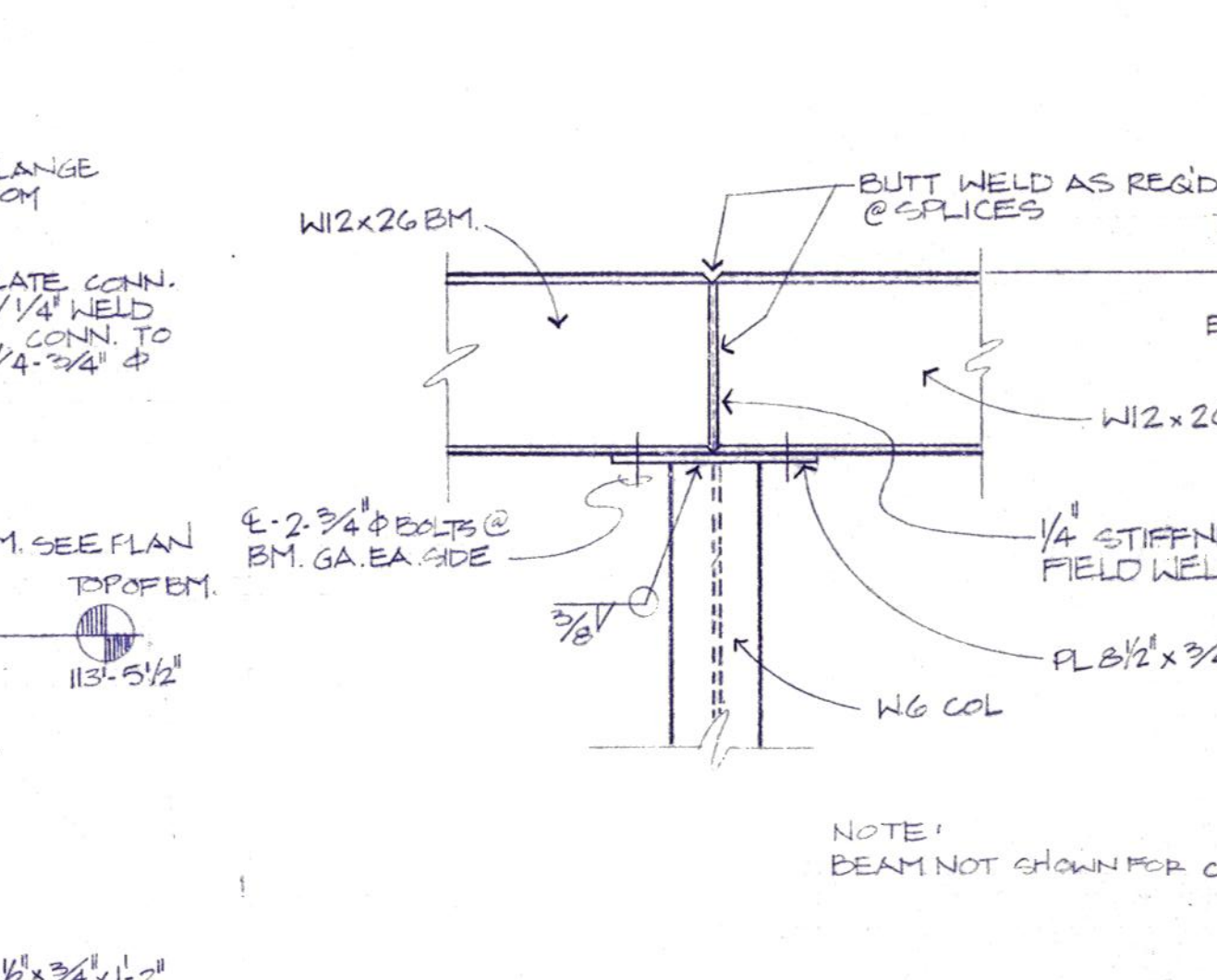
9 DETAIL



10 DETAIL



11 DETAIL



12 DETAIL

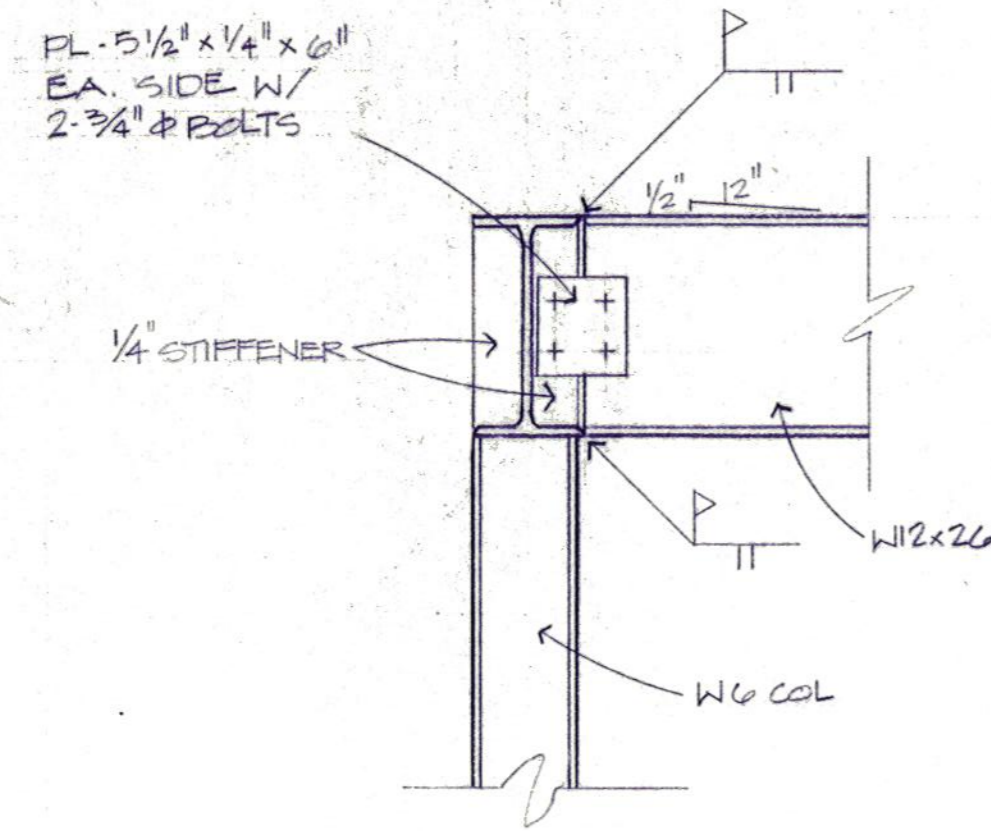


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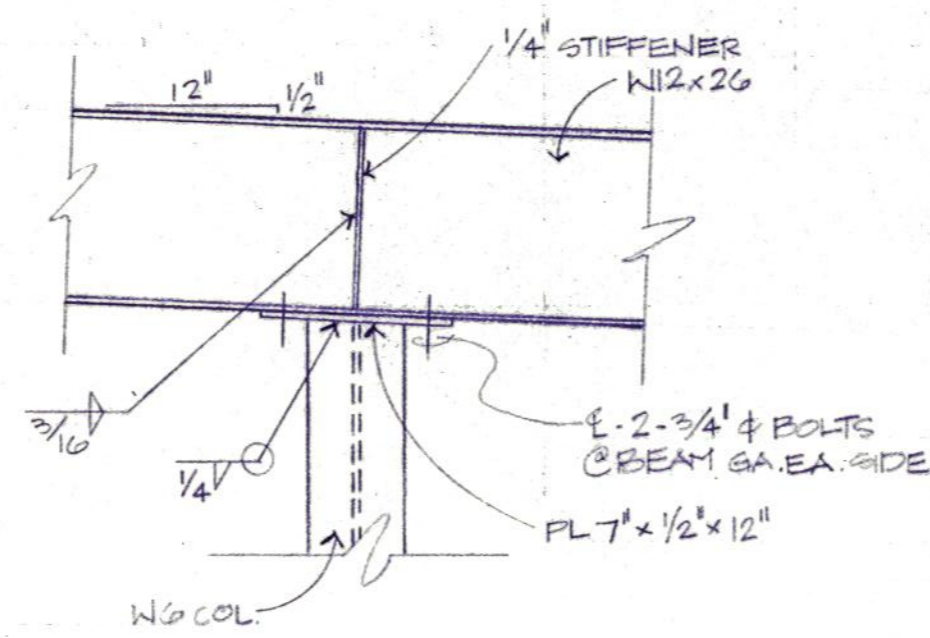
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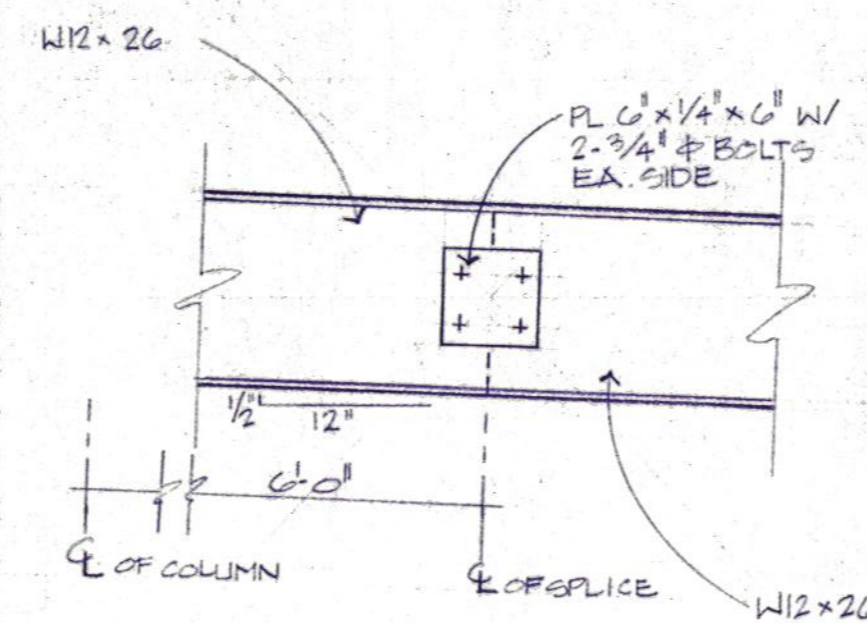
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 DATE JULY 11, 1989
 JOB NUMBER B907
 SHEET
S6
 OF 7 VOLUME I



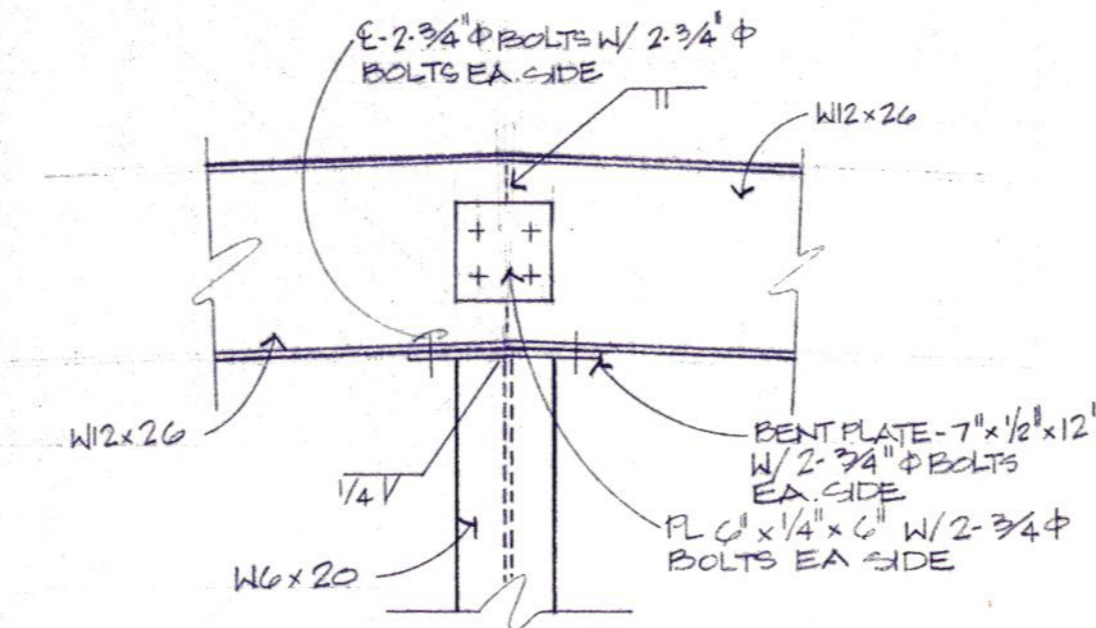
1 DETAIL



2 DETAIL



3 DETAIL



4 DETAIL



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DRAWN GOMEZ

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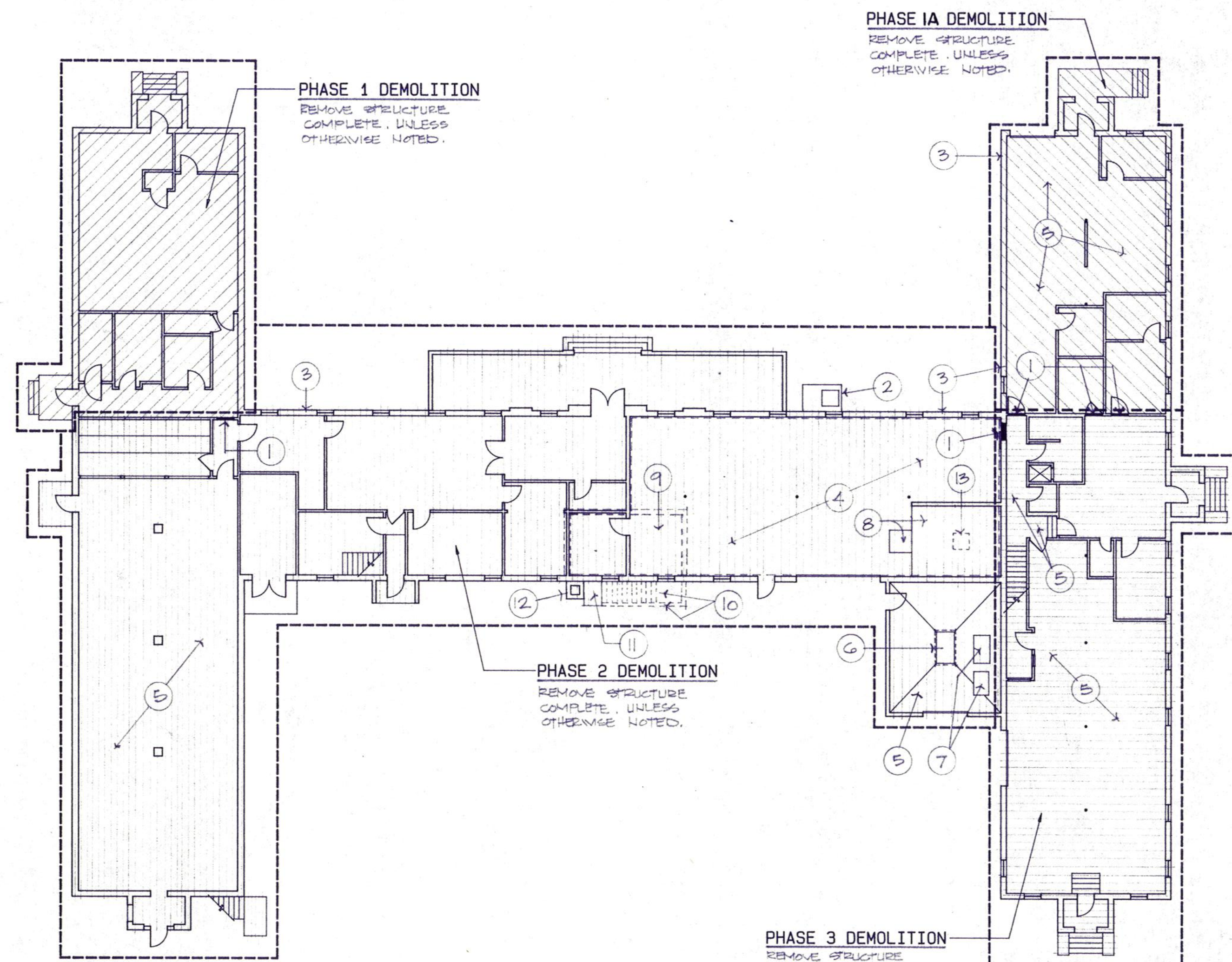
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SHEET

S7

OF 7 VOLUME I



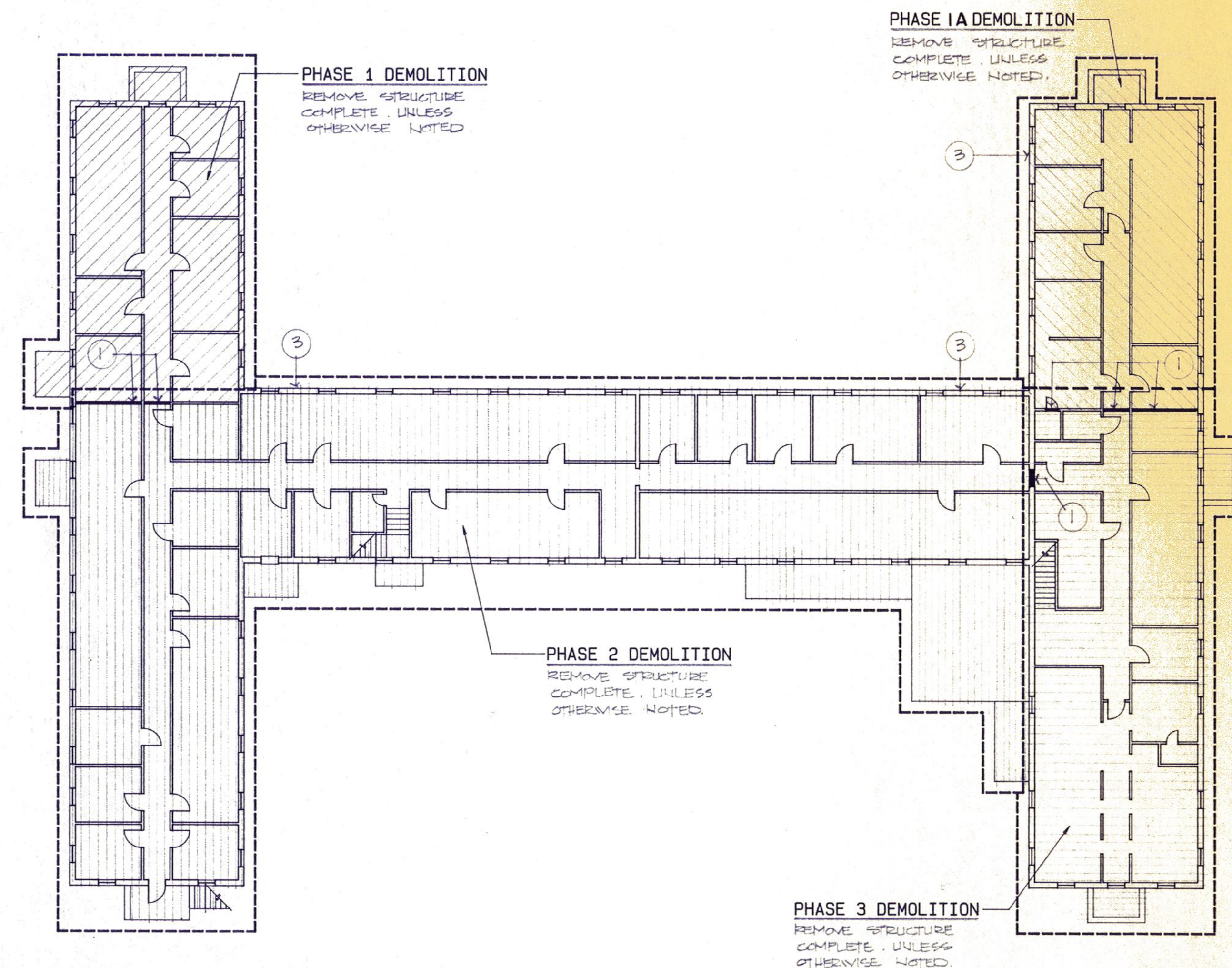
1 FIRST FLOOR DEMO. PLAN - EXISTING DANIEL BLDG.

1/16" = 1'-0"



DEMOLITION KEYNOTES (THIS SHEET ONLY)

- ① TEMPORARY PARTITION AND WEATHERPROOFING OF EXISTING WALLS EXPOSED DURING DEMOLITION BY OWNER. CONTRACTOR TO COORDINATE WITH OWNER ON TIMING CONSTRUCTION OF PARTITIONS AND WEATHERPROOFING.
- ② CONC. TUNNEL ACCESS TO BE REMOVED AS REQUIRED FOR NEW CONSTRUCTION. REFER SHEET 55.
- ③ EXISTING FACE BRICK TO BE REMOVED DURING PHASE 1 DEMOLITION. REFER GENERAL NOTE "3" THIS SHEET FOR ADDITIONAL INFORMATION.
- ④ EXISTING CONC. SLAB TO REMAIN. PARTIAL DEMOLITION IS REQUIRED FOR NEW CONSTRUCTION. COORDINATE WITH NEW CONSTRUCTION DRAWINGS.
- ⑤ EXISTING CONC. SLAB TO BE REMOVED COMPLETE. ALL AREAS OF CONC. SLABS AND LOCATIONS TO BE VERIFIED BY CONTRACTOR.
- ⑥ EXISTING CONC. SAND TRAP TO REMAIN.
- ⑦ EXISTING DUST COLLECTORS TO BE TURNED OVER TO OWNER. REFER SPECIFICATIONS FOR ALTERNATE REGARDING DUST COLLECTORS.
- ⑧ EXISTING IVD. RAISED FLOOR TO BE REMOVED COMPLETE.
- ⑨ EXISTING BASEMENT BELOW CONC. SLAB TO REMAIN.
- ⑩ EXISTING CONC. STAIRS TO BASEMENT. REMOVE TOP PORTION COMPLETE FOR DEPTH OF COMPACTED FILL REQUIRED FOR NEW CONSTRUCTION.
- ⑪ CONC. SPOOF AT TOP OF STAIRS REMOVE COMPLETE.
- ⑫ EXISTING BRICK CHIMNEY TO BE REMOVED COMPLETE. REFER GENERAL NOTE "3" THIS SHEET FOR ADDITIONAL INFORMATION.
- ⑬ EXISTING CONC. SAND TRAP TO REMAIN. TO BE FILLED IN W/COMPACTED FILL.



2 SECOND FLOOR DEMO. PLAN - EXISTING DANIEL BLDG.

1/16" = 1'-0"



GENERAL NOTES (THIS SHEET ONLY)

1. CONTRACTOR TO VERIFY EXISTING CONSTRUCTION AND COORDINATE ALL DEMOLITION WITH NEW CONSTRUCTION DRAWINGS.
2. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE SUB CONTRACTORS DEMOLITION REQUIRED FOR ALL DISCIPLINES UNDER THIS CONTRACT.
3. ALL EXISTING FACE BRICK TO BE REMOVED, CLEANED AND STACKED ON SITE FOR REUSE IN NEW CONSTRUCTION BASE BID. BRICK TO BE REMOVED IN PHASING OR AS KEYNOTED ON PLANS "1" & "2" THIS SHEET. REFER SHEET A13 FOR AREAS OF REUSED BRICK. REFER SPECIFICATIONS FOR ALTERNATE REGARDING BRICK.
4. PROVIDE ADEQUATE SHORING OF ALL LOAD BEARING AREAS AS REQUIRED FOR BUILDING TO REMAIN STRUCTURAL SOUND AND OCCUPIED DURING DEMOLITION AND NEW CONSTRUCTION PHASING.
5. FOR ADDITIONAL SITE DEMOLITION INFORMATION REFER SHEET SP 1.



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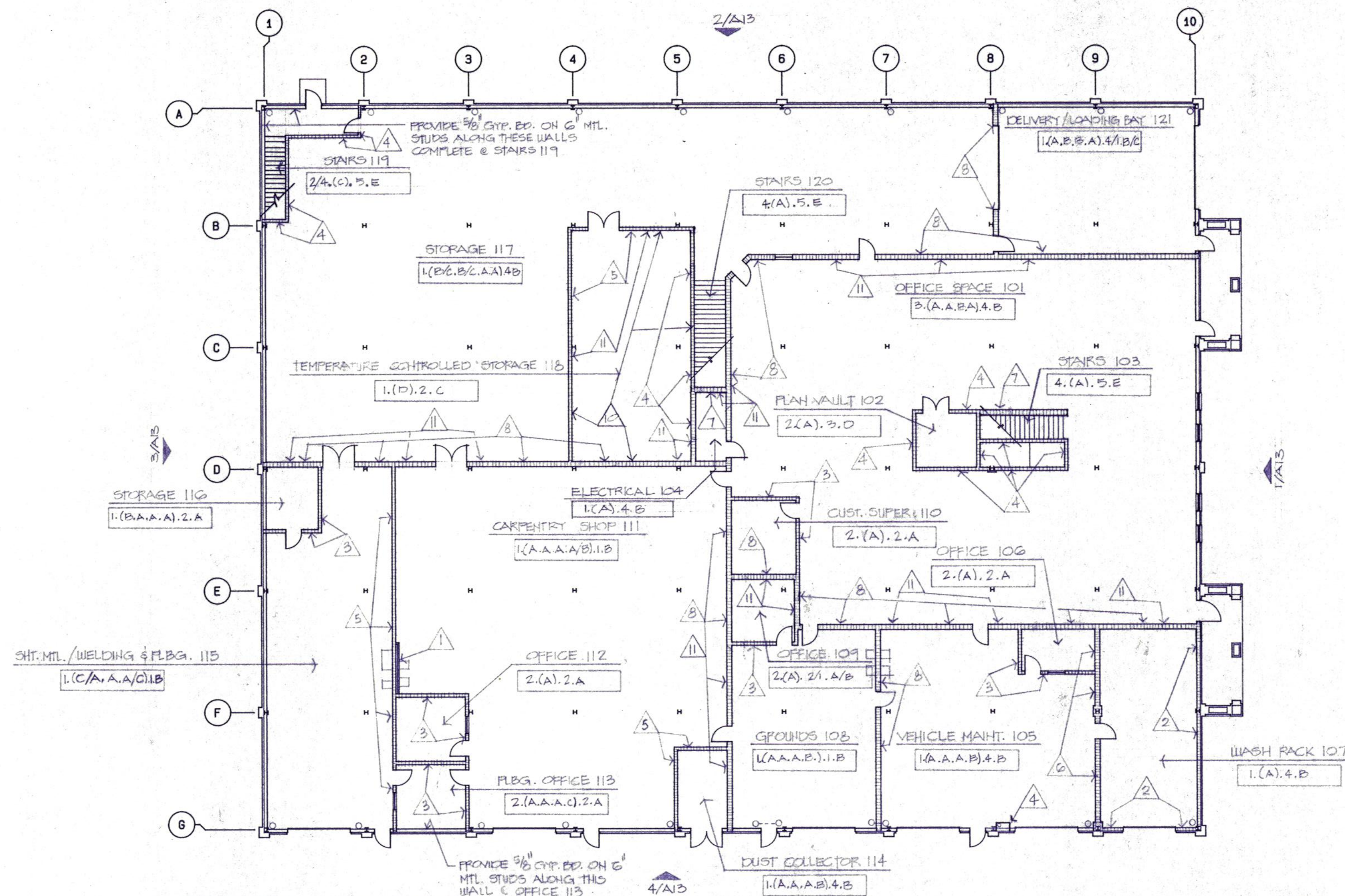
DATE JULY 11, 1989

JOB NUMBER 8907

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OF 1 VOLUME I



1 FIRST FLOOR PLAN

1/16" = 1'-0"



ROOM FINISH SCHEDULE			
FLOOR / BASE	WALLS	CEILING	HGT.
1 EXPOSED CONC. W/REINER/NONE	A PAINTED CMU	1 GYP BD T&E, RED TEXTURE 4 FT.	A 8'-0"
2 VINYL TILE/VINYL	B EXPOSED MTL STUDS	2 2x4 ACOUSTIC LATH-IN	B 8'-0"
3 EXPOSED CONC./NONE	C GYP BD T&E, RED TEXTURE 4 FT.	3 EXPOSED CONC. PAINTED	C 10'-0"
4 VINYL TRENDS 4 SGLRS/VINYL	D EXPOSED RIGID INSUL. BD.	4 EXPOSED STRUT.	D 8'-0"
5	E	5 NONE	E NONE
6	F	6	F
7	G	7	G
8	H	8	H

KEY TO "ROOM FINISH SCHEDULE"

THE NUMBERS & LETTERS APPEARING ON THE FLOOR PLAN REFER TO THE ROOM FINISH SCHEDULE IN THE FOLLOWING ORDER:

FLOOR/BASE: 1. (B.C.A.C) . 3.B
WALLS (NORTH, EAST, SOUTH, WEST) CEILING HEIGHT
CEILING TYPE

WHEN MORE THAN ONE LETTER OR NUMBER OCCURS WITHIN A FINISH ELEMENT, 1/4 OR A/E THIS INDICATES MULTIPLE FINISHES / CONDITIONS WITHIN THAT PARTICULAR ELEMENT.

PARTITION KEYNOTES:

- 1 4" CMU TO STRUCTURE ABOVE.
- 2 6" CMU TO BOTTOM OF SECOND FLR. BEAM.
- 3 8" CMU TO 8'-0" HT. A.F.F.
- 4 8" CMU, 1-HR. FIRE RATED - EXTEND TO STRUCT. ABOVE AND SEAL COMPLETE.
- 5 8" CMU TO STRUCTURE ABOVE.
- 6 12" CMU TO STRUCTURE ABOVE.
- 7 12" CMU, 1-HR. FIRE RATED - EXTEND TO STRUCT. ABOVE AND SEAL COMPLETE.
- 8 12" CMU, 2-HR. FIRE RATED - EXTEND TO STRUCT. ABOVE AND SEAL COMPLETE.
- 9 2-LAYERS 5/8" FIRE CODE GYP. BD. EX. SIDE OF 3/8" MTL. STUDS @ 16" O.C. - EXTEND TO STRUCTURE ABOVE AND SEAL COMPLETE.
- 10 2" RIGID INSUL. BD. ATTACHED TO CMU & EXTEND BD. TO ABOVE SCHEDULED CEILING HEIGHT
- 11 VERMICULITE FILLED CMU PARTITION.

2 SECOND FLOOR PLAN

1/16" = 1'-0"



GENERAL NOTES:

1. REFER TO SHEET A2 AND A3 FOR 1/8" SCALE DIMENSIONAL FLOOR PLANS, DOOR NUMBERING, WINDOW KEYING, AND KEYED PLAN DETAILS/SECTIONS.
2. REFER TO SHEET A4 FOR DRYWALL PARTITION ALTERNATE NO. 4.
3. COORDINATE NEW CONSTRUCTION W/ALTERNATES - REFER SPECIFICATIONS



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DRAWN HALBERT

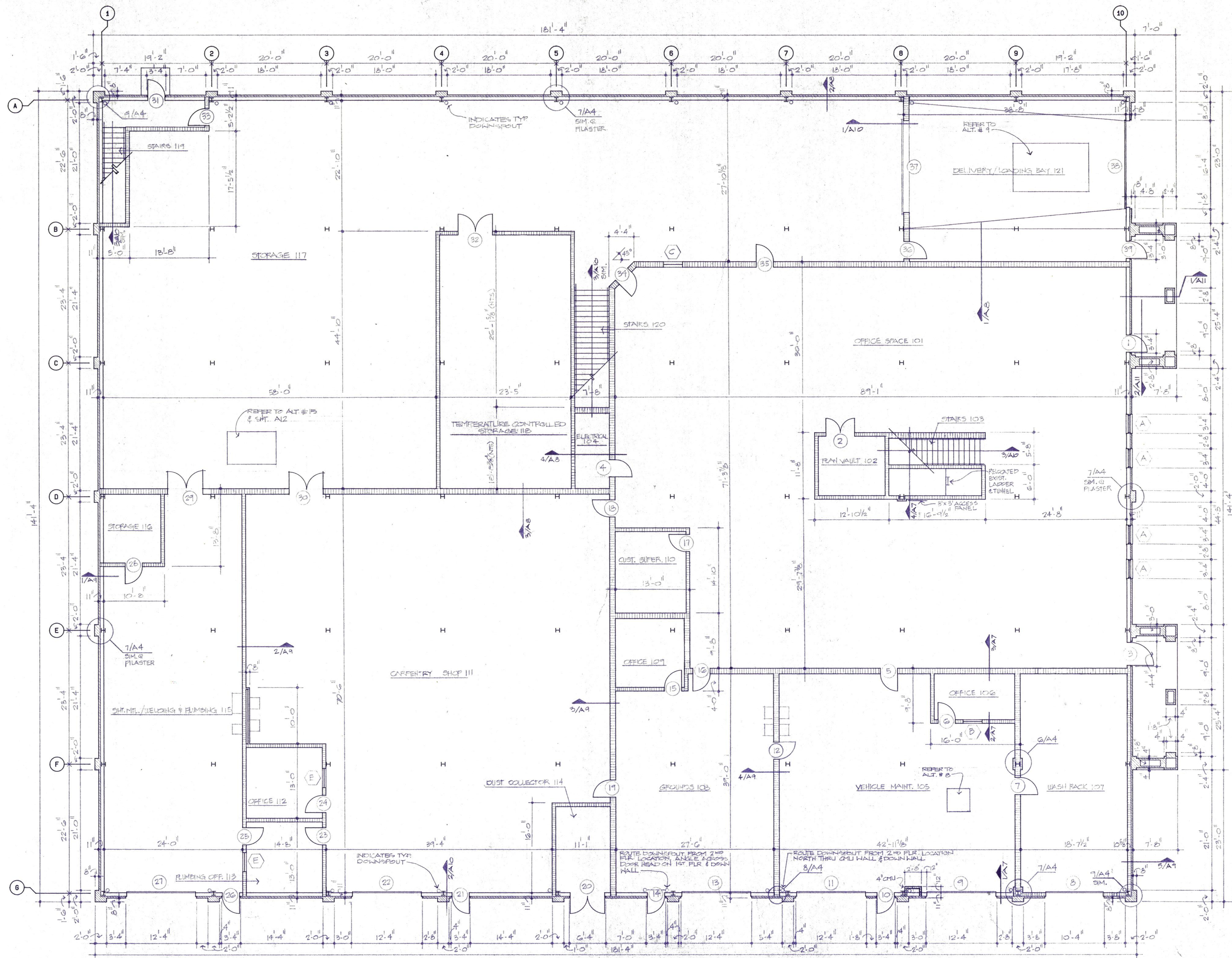
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DATE JULY 11, 1989

JOB NUMBER 8907

SHEET

A1



- GENERAL NOTES:**
1. REFER TO SHEET A1 FOR ROOM FINISH SCHEDULE, EXTERIOR ELEVATION KEYING AND PARTITION KEYNOTES/LEGEND.
 2. REFER TO SHEET A4 FOR EXTERIOR PARTITION ALTERNATE NO. 4.
 3. REFER TO SHEET A5 FOR DOOR SCHEDULE.



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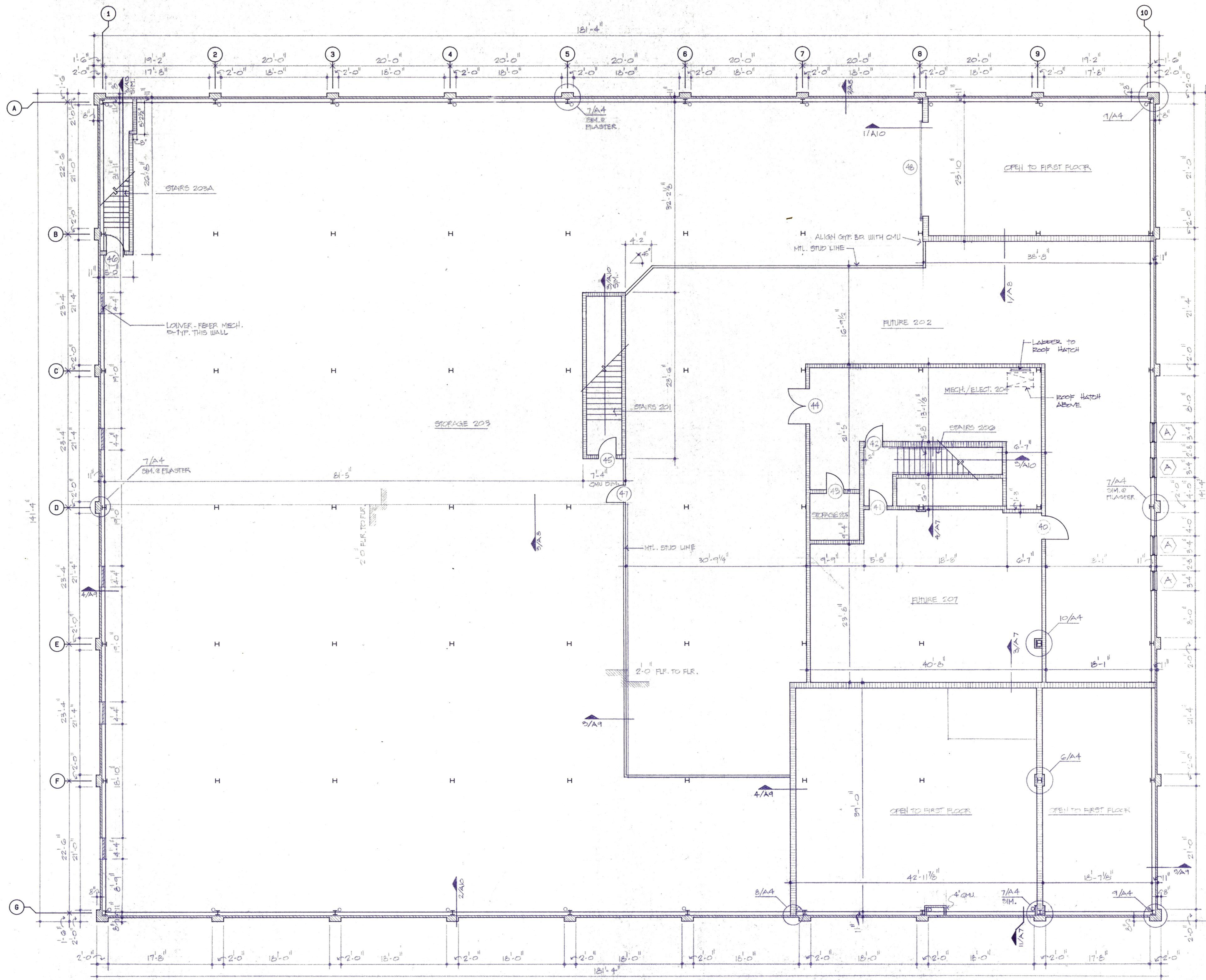


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 DATE JULY 11, 1989
 JOB NUMBER 8907

SHEET
A2
 OF 16 VOLUME 1

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





GENERAL NOTES:

1. REFER TO SHEET A1 FOR ROOM FINISH SCHEDULE, EXTERIOR ELEVATION KEYING AND PARTITION KEYNOTES/LEGEND
2. REFER TO SHEET A4 FOR DRYWALL PARTITION ALTERNATE NO. 4
3. REFER TO SHEET A5 FOR DOOR SCHEDULE



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SHEET

A3

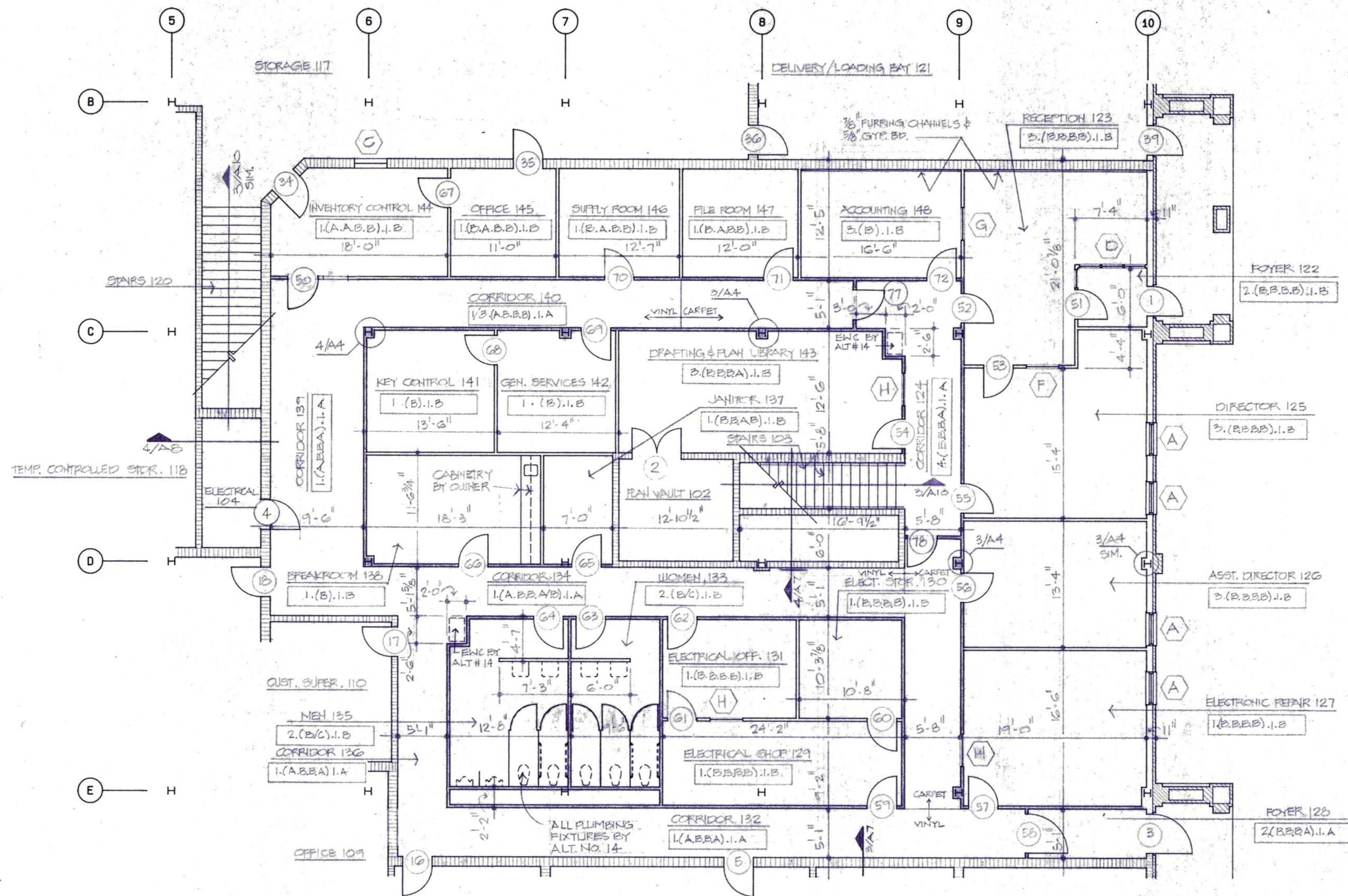
OF 16 VOLUME 1

1 SECOND FLOOR PLAN

1/8" = 1'-0"

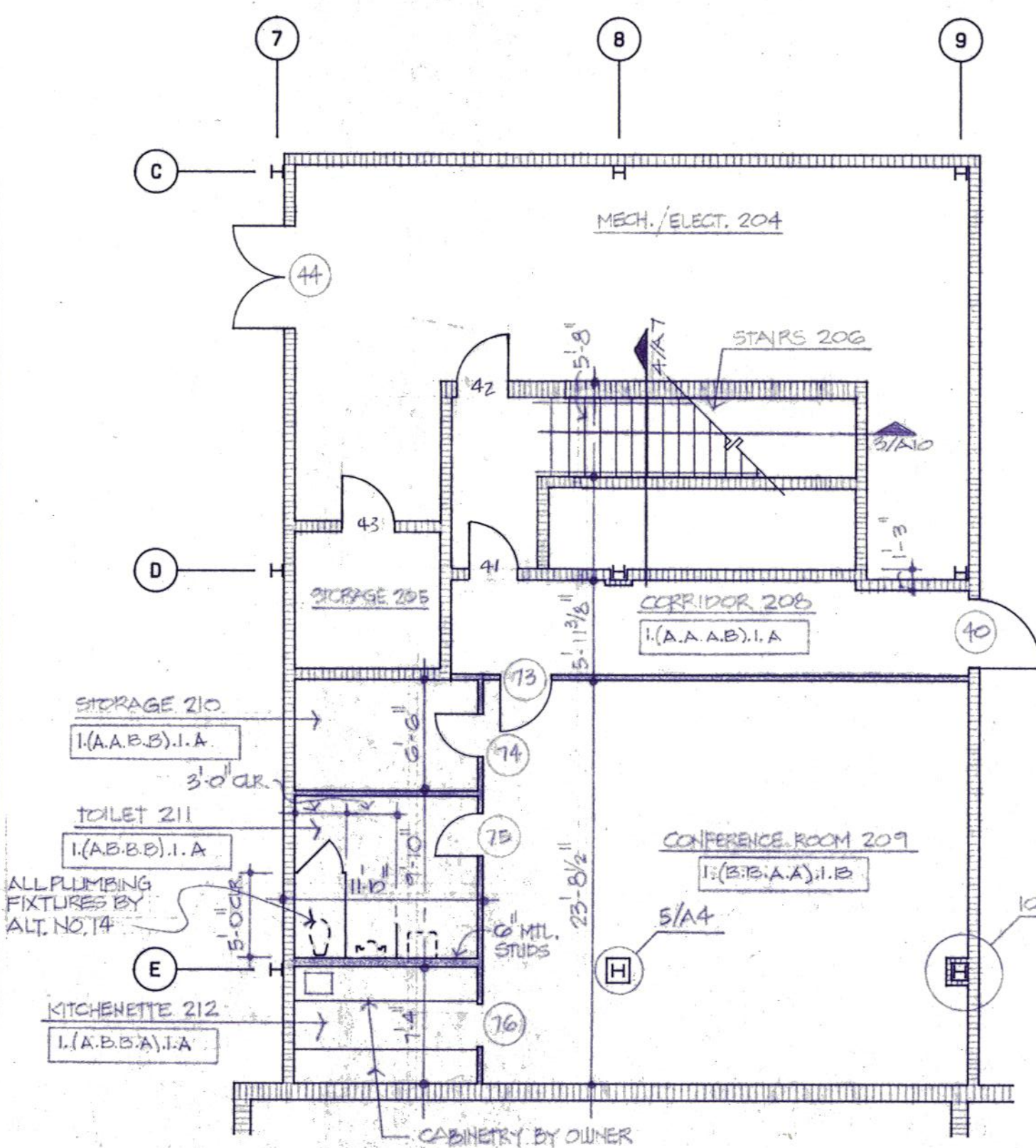


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1 FIRST FLOOR PLAN - ALTERNATE #4

1/8" = 1'-0"



2 SECOND FLOOR PLAN - ALTERNATE #4

1/8" = 1'-0"



ROOM FINISH SCHEDULE (REFER ALTERNATES)			
FLOOR/SPACE ALT. NO. 3	WALLS ALTERNATE NO. 4	CEILING ALTERNATE NO. 5	HGT.
1 VINYL TILE / VINYL	A PAINTED CMU	1 2 x 4 ACOUSTIC LAY-IN	A 8'-0"
2 QUARRY TILE / QUARRY TILE	B GYP. ED. TAPE, BEDDED IN 1/2" AFT.	2 2 x 4 ACOUSTIC LAY-IN	B 9'-0"
3 CARPET / VINYL	C CERAMIC TILE 12" x 12" W/ 1/4" GROUT	3 2 x 4 ACOUSTIC LAY-IN	C 10'-0"
4	D	4	D
5	E	5	E
6	F	6	F
7	G	7	G
8	H	8	H

KEY TO "ROOM FINISH SCHEDULE"

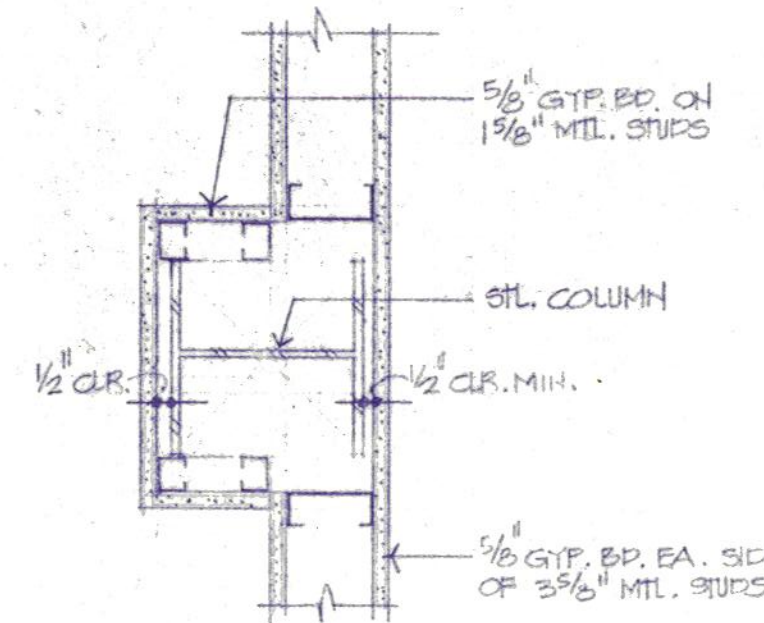
THE NUMBERS & LETTERS APPEARING ON THE FLOOR PLAN REFER TO THE ROOM FINISH SCHEDULE IN THE FOLLOWING ORDER:

ALT. NO. 3 FLOOR/SPACE 1 (B.C.A.C) 3.B
ALT. NO. 4 WALLS (NORTH, EAST, SOUTH, WEST) CEILING HEIGHT ALT. NO. 5
CEILING TYPE ALT. NO. 5

WHEN MORE THAN ONE LETTER OR NUMBER OCCURS WITHIN A FINISH ELEMENT; i.e. 1/4 OR A/E THIS INDICATES MULTIPLE FINISHES / CONDITIONS WITHIN THAT PARTICULAR ELEMENT.

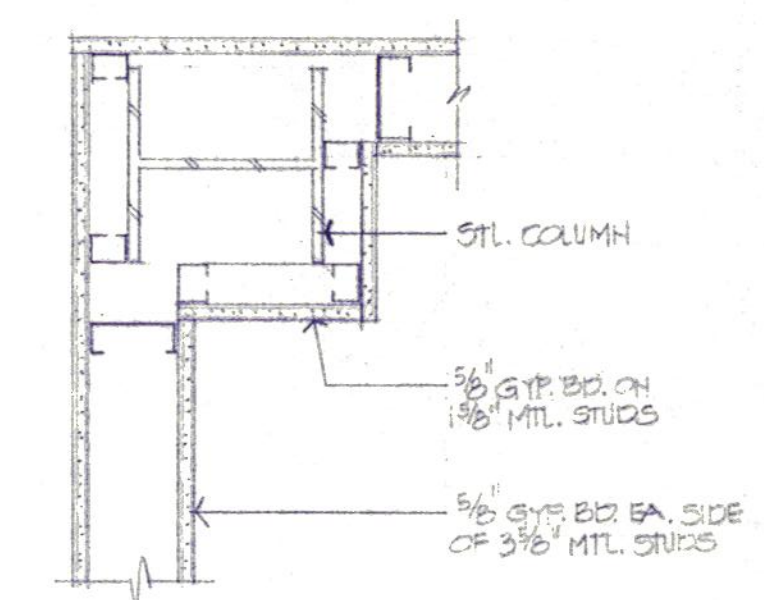
GENERAL NOTES - ALTERNATE #4:

- ALL PARTITIONS INDICATE UNDER THIS ALTERNATE NO. 4 ARE 5/8" GYP. ED. TAPE, BEDDED IN 1/2" AFT. STUDS @ 16" O.C. UNLESS OTHERWISE NOTED. ALL CMU INDICATED IS IN BASE BID.
- FOR DOOR SCHEDULE - REFER TO SHEET A5.
- PARTITIONS INDICATED THUSLY ARE TO EXTEND TO STRUCTURE ABOVE AND SEAL COMPLETELY. ALL OTHERS SHALL EXTEND MIN. 6" ABOVE HIGHEST SCHEDULED CEILING.



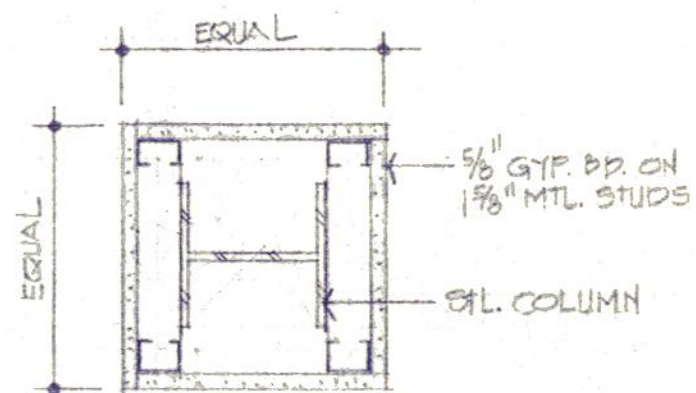
3 DETAIL

1/2" = 1'-0"



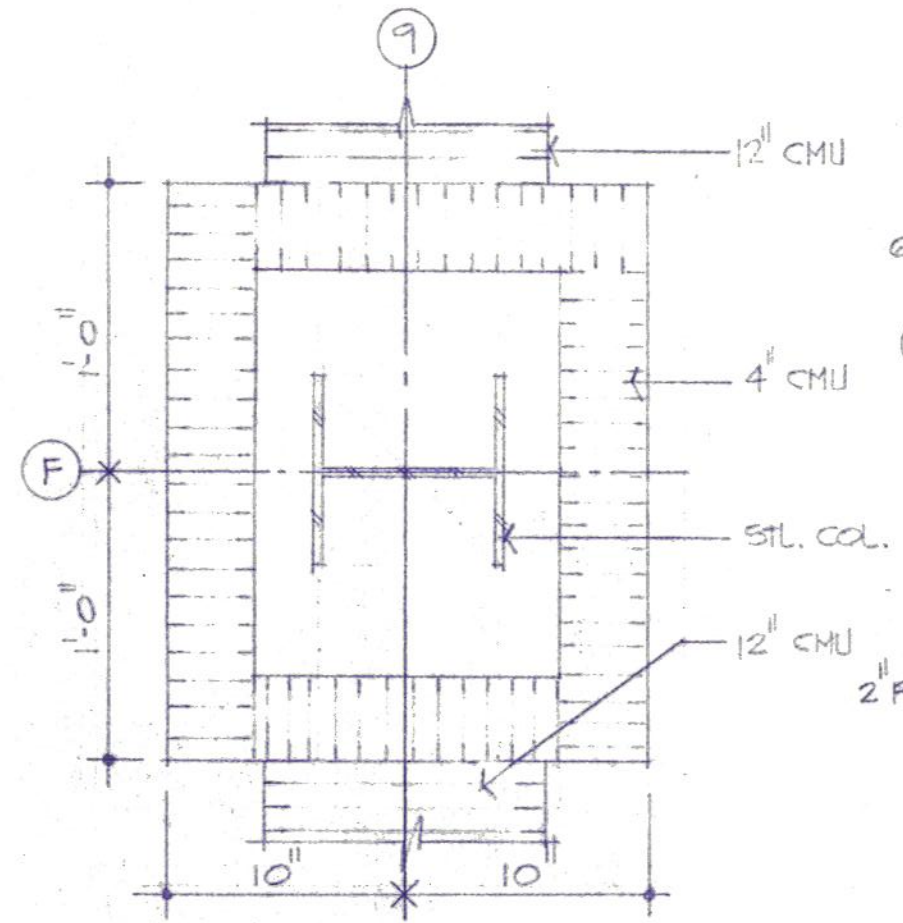
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1/2" = 1'-0"



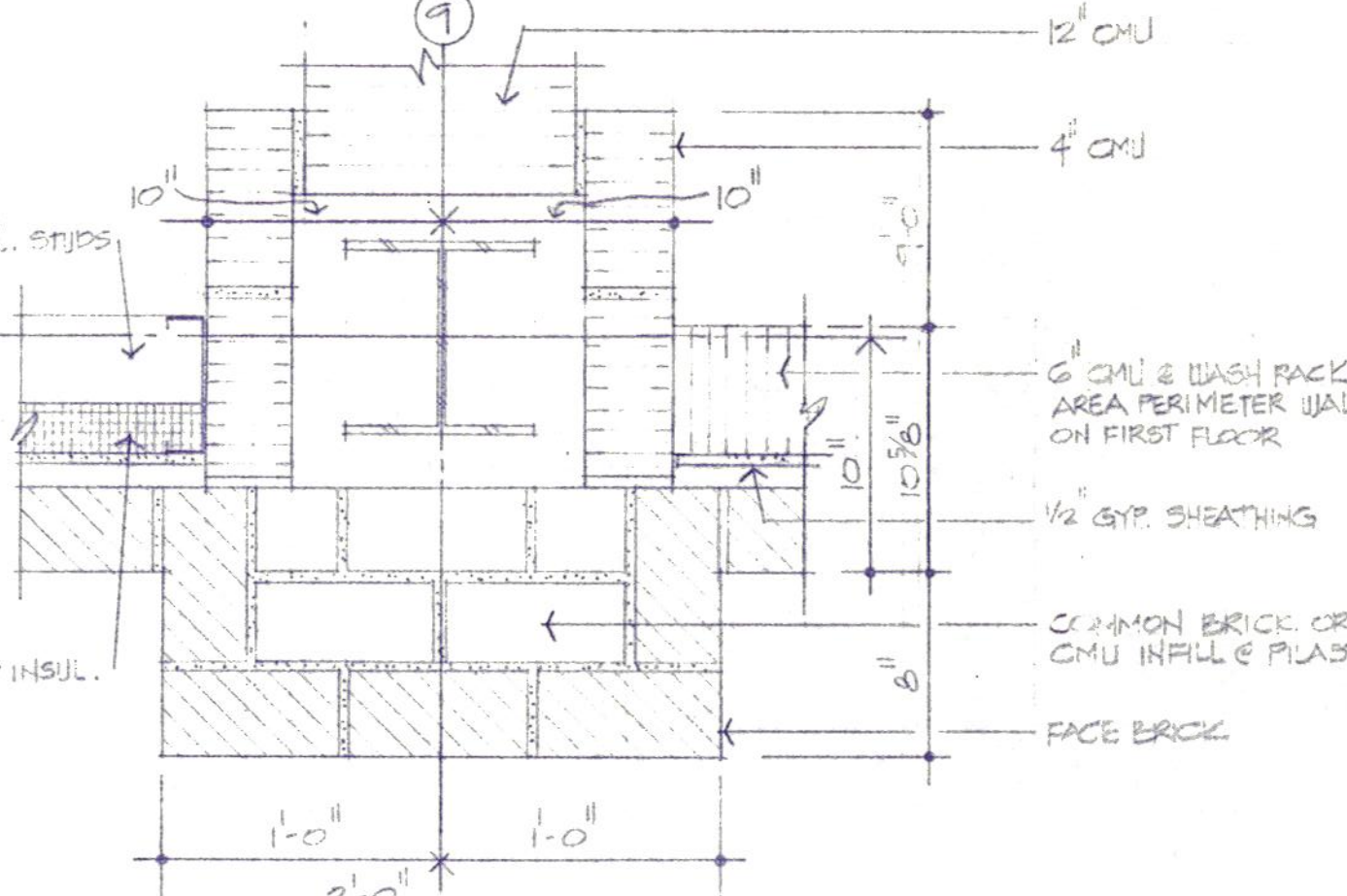
5 DETAIL

1/2" = 1'-0"



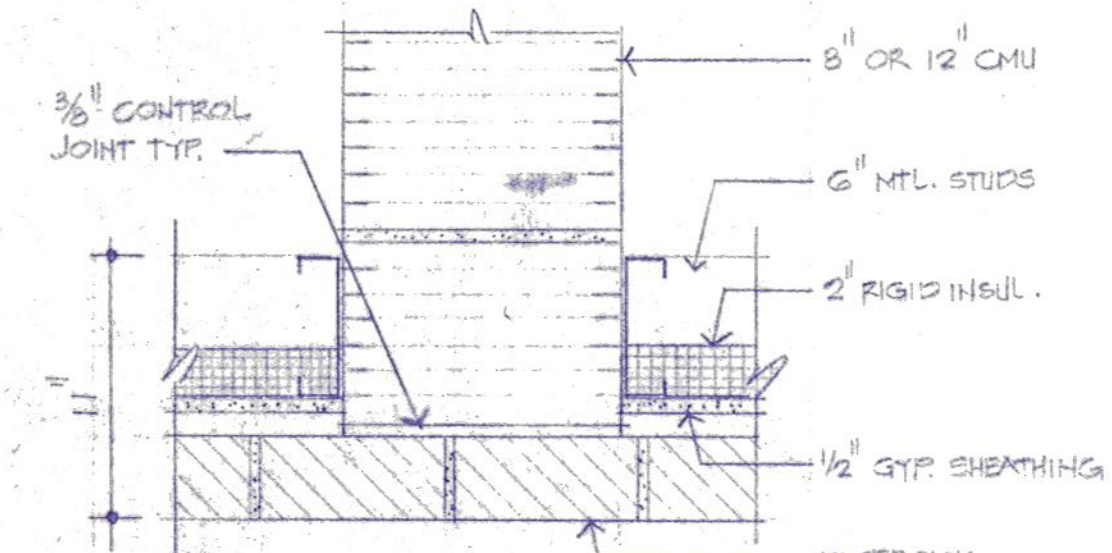
6 DETAIL

1/2" = 1'-0"



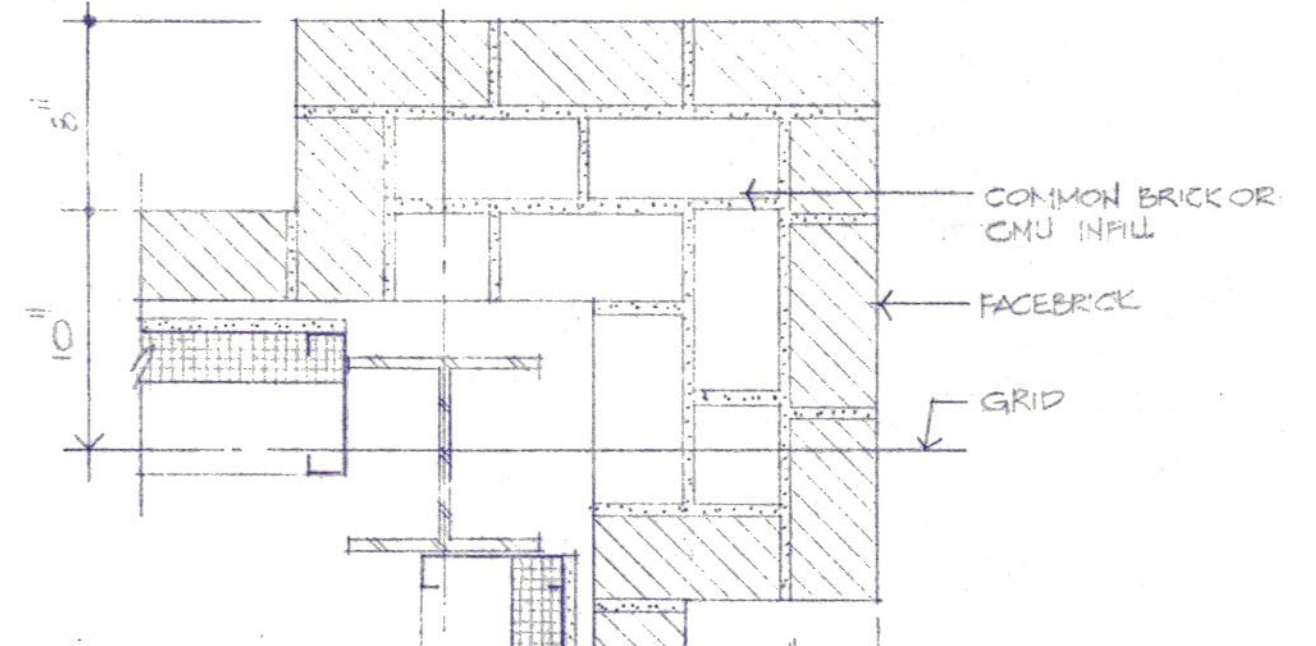
7 DETAIL

1/2" = 1'-0"



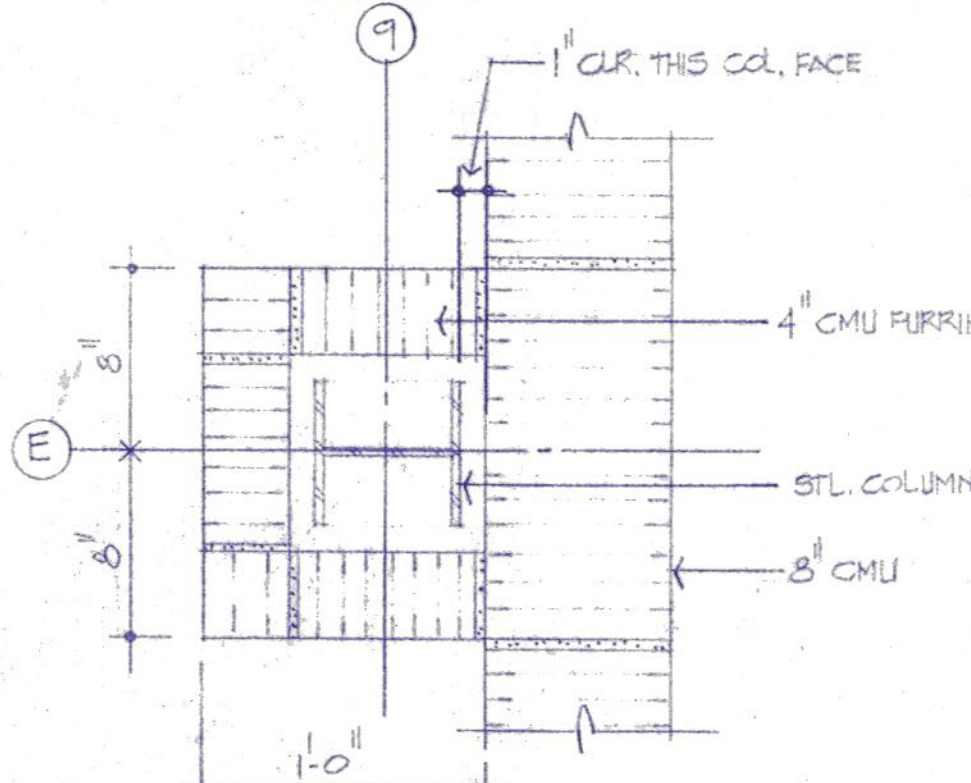
8 DETAIL

1/2" = 1'-0"



9 DETAIL

1/2" = 1'-0"



10 DETAIL

1/2" = 1'-0"



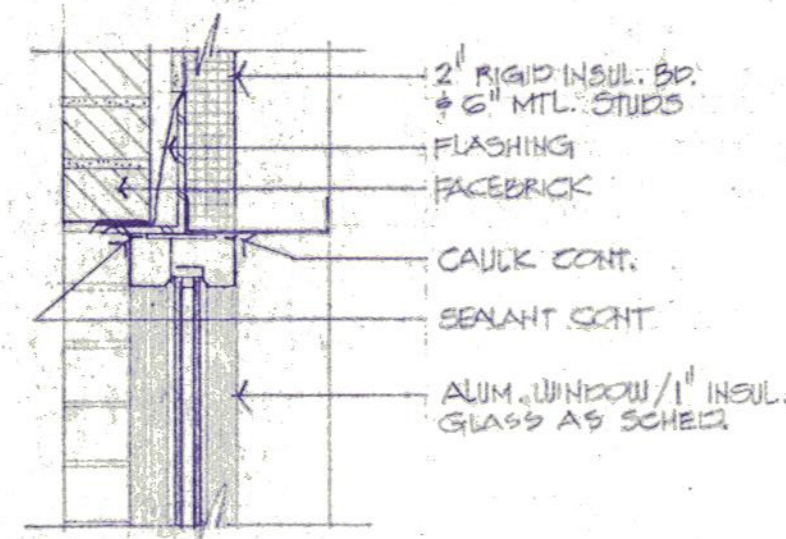
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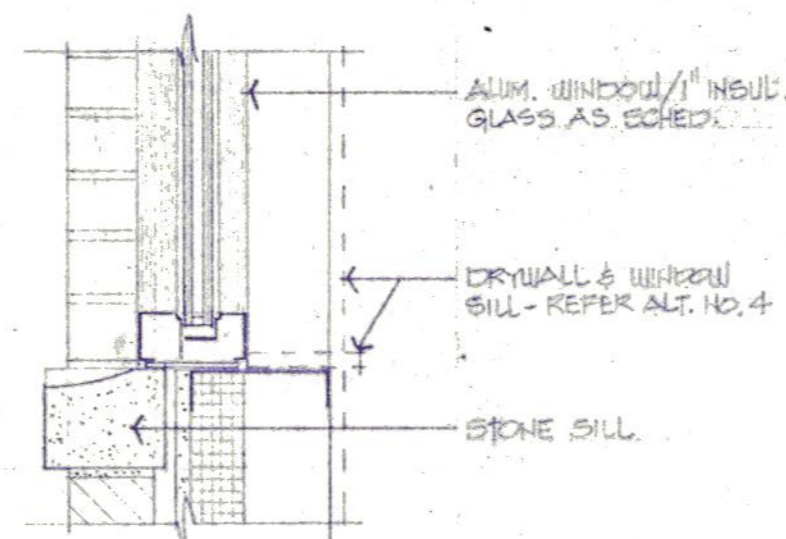
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DATE: JULY 11, 1989
JOB NUMBER: 8907

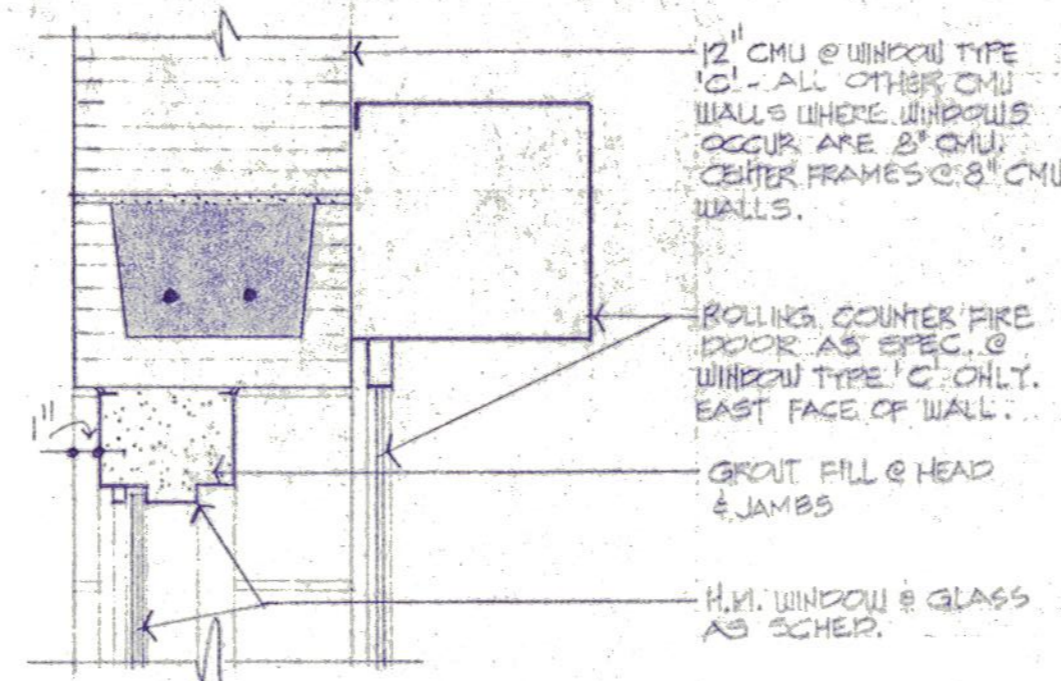
SHEET
A4
OF 10 VOLUME 1



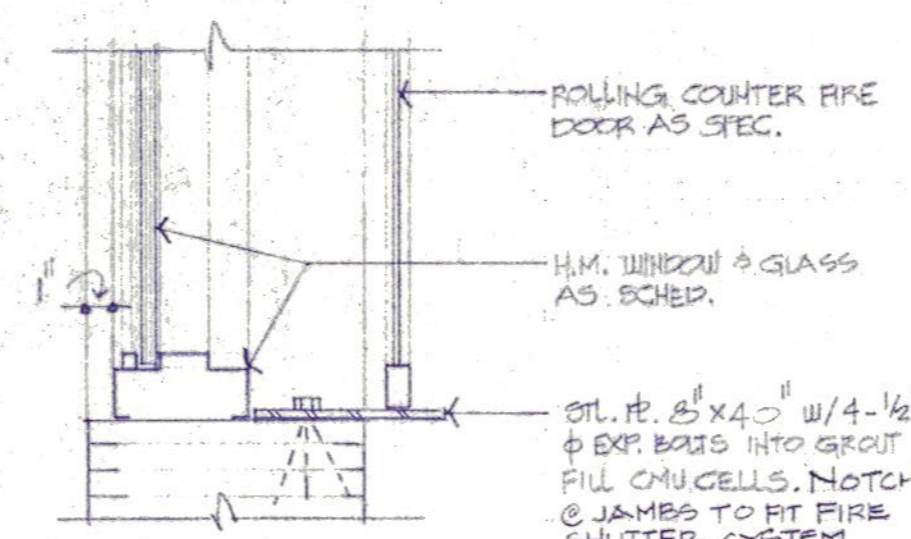
1 HEAD
1/2" = 1'-0"



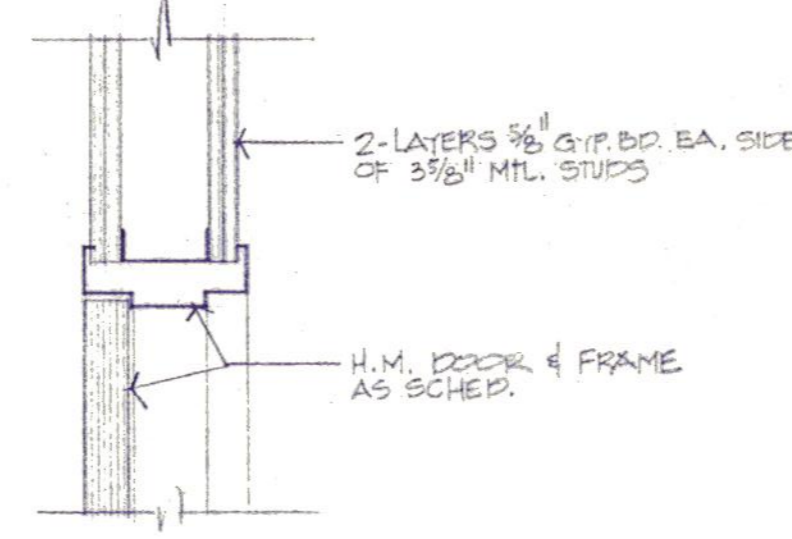
2 SILL
1/2" = 1'-0"



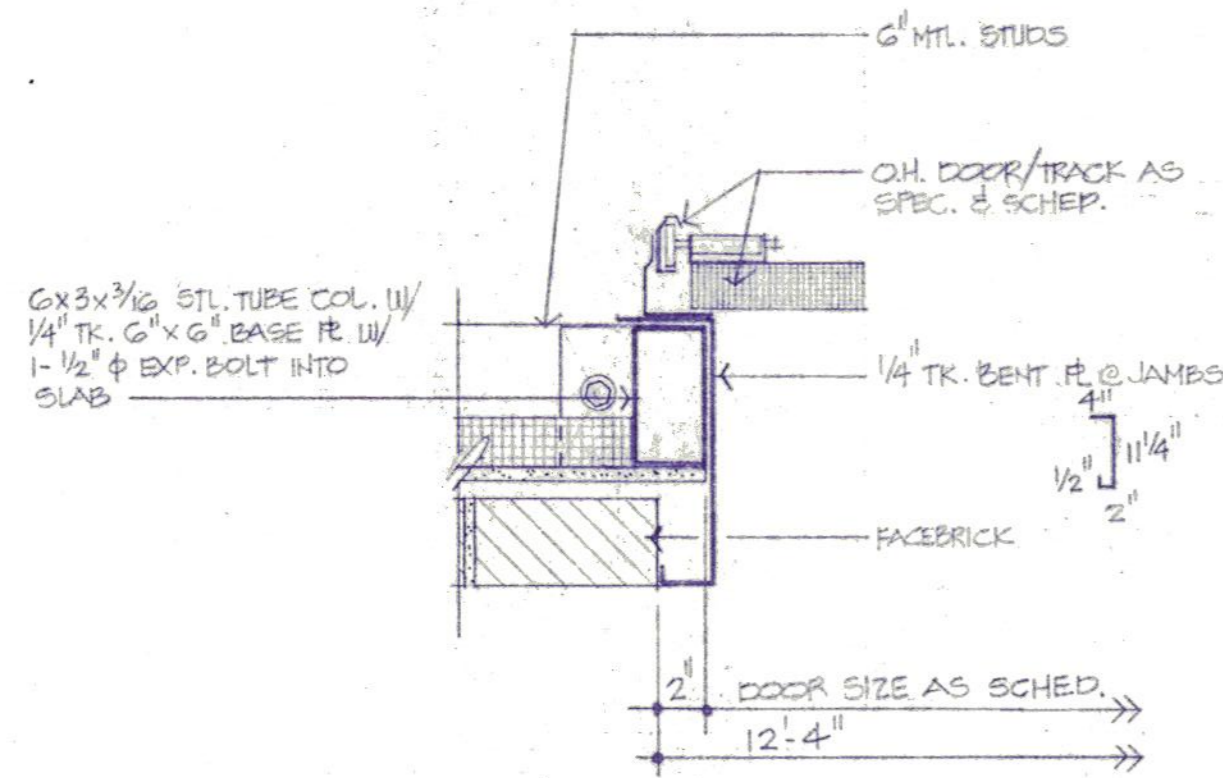
3 HEAD
1/2" = 1'-0"



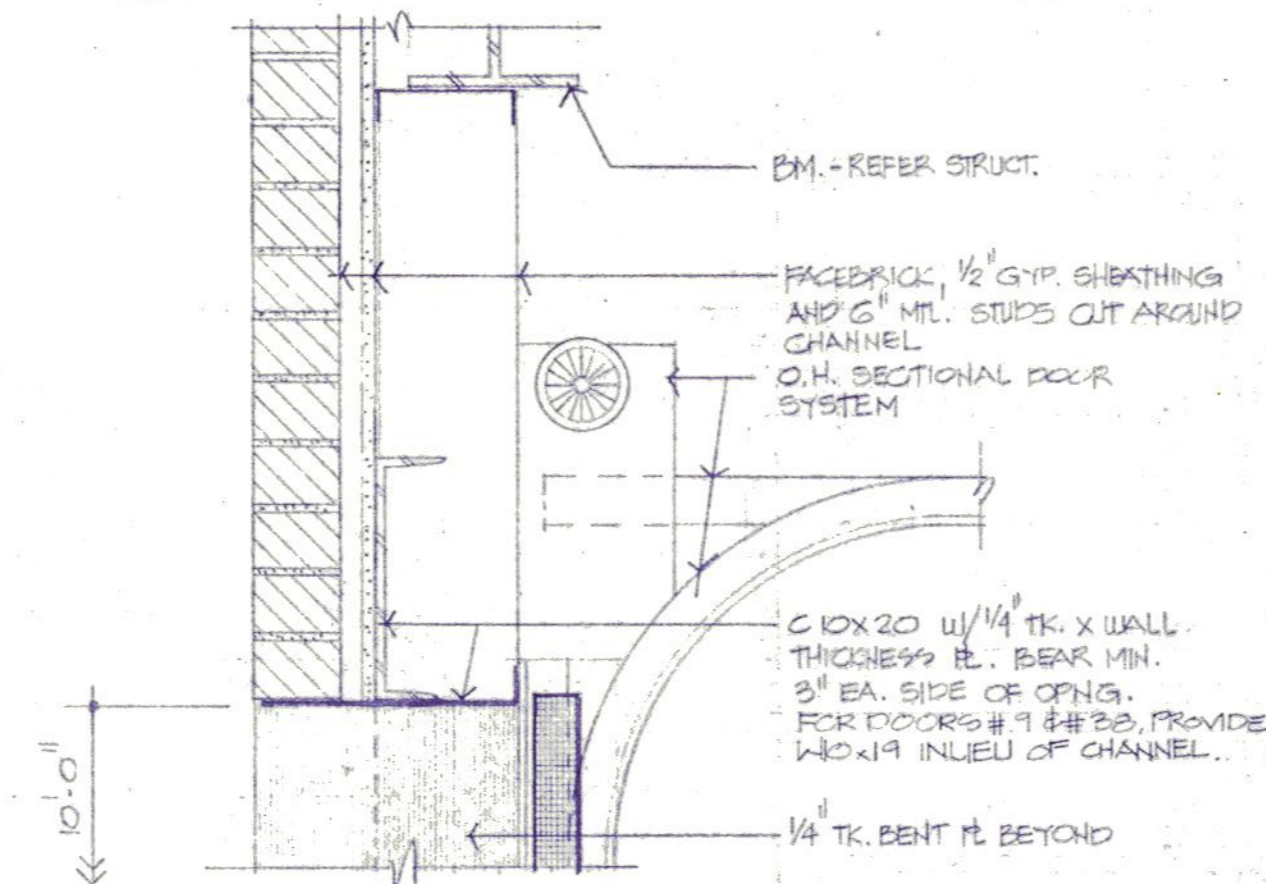
4 SILL
1/2" = 1'-0"



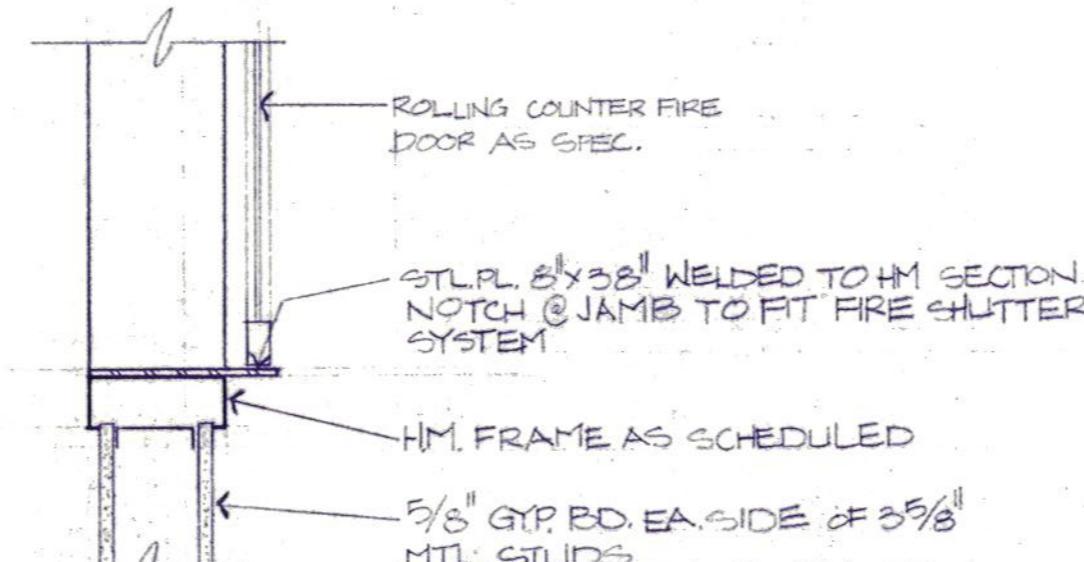
5 HEAD
1/2" = 1'-0"



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



7 HEAD
1/2" = 1'-0"



8 SILL
1/2" = 1'-0"



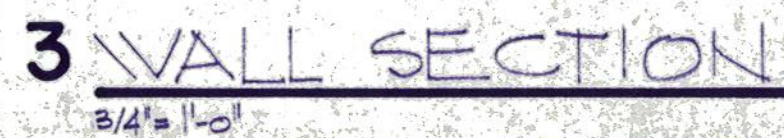
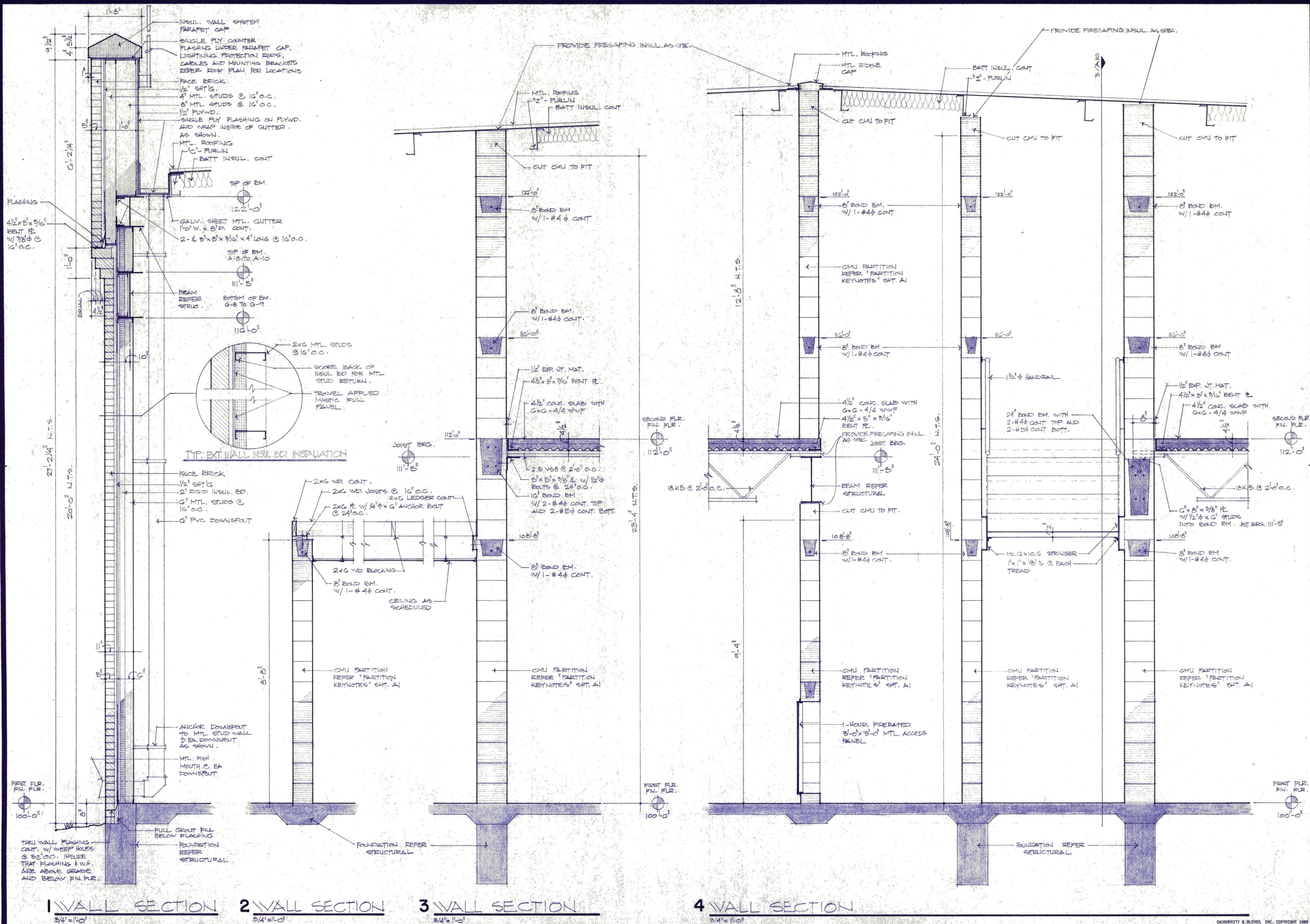
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SHEET
A6
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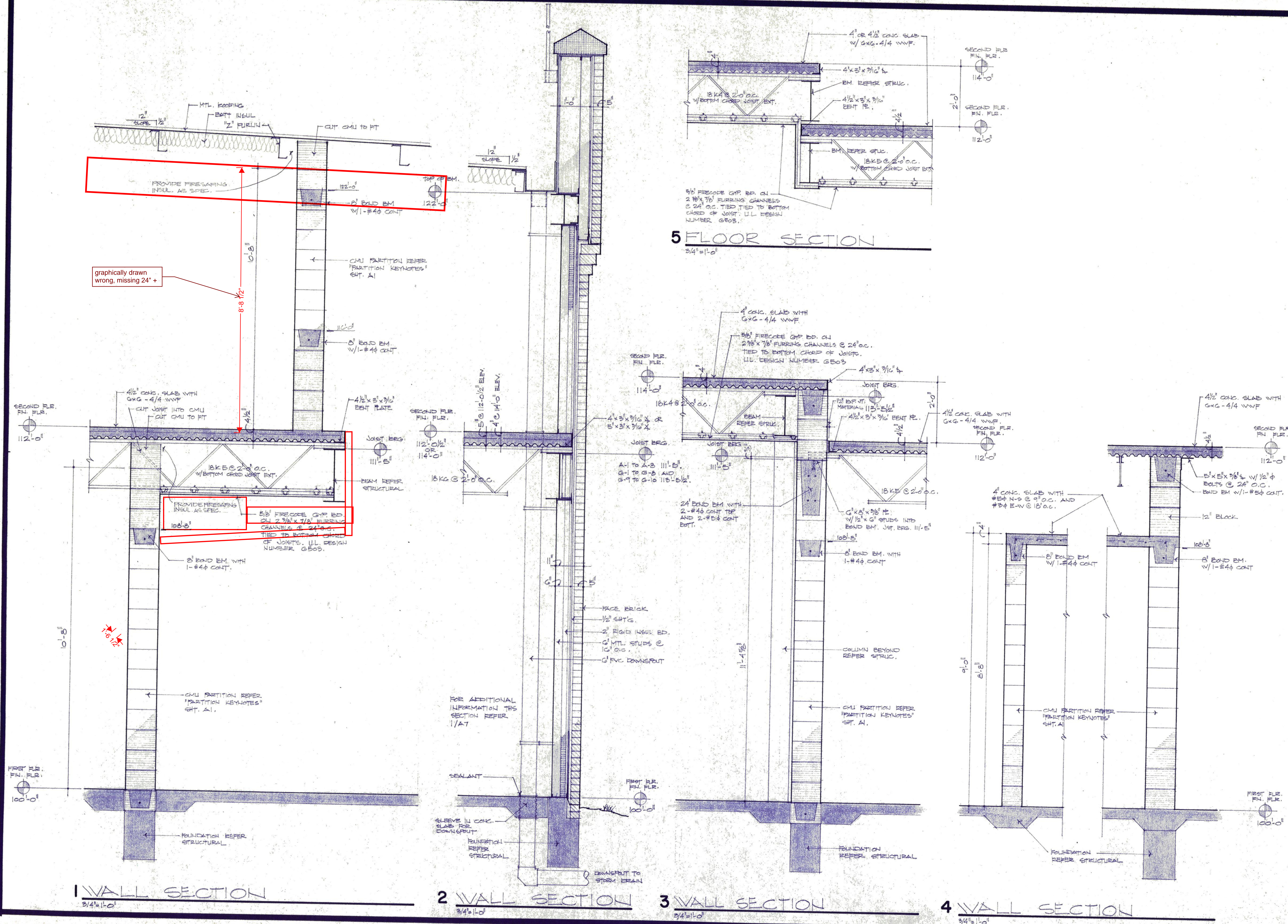


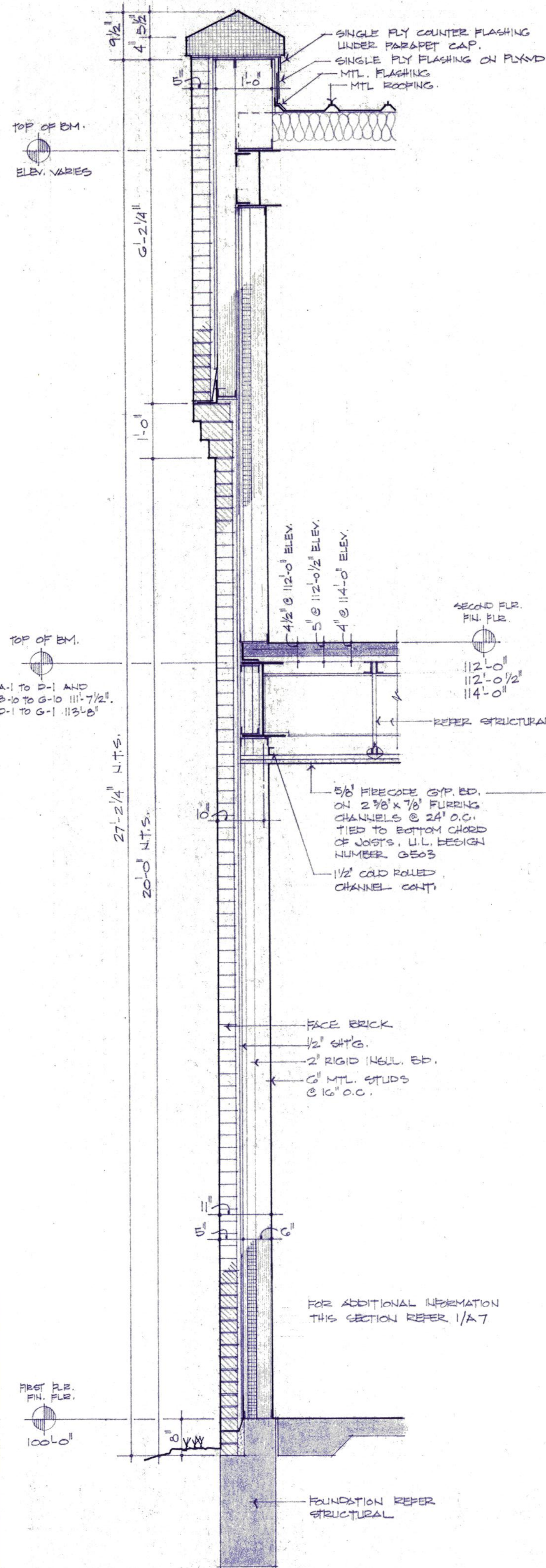
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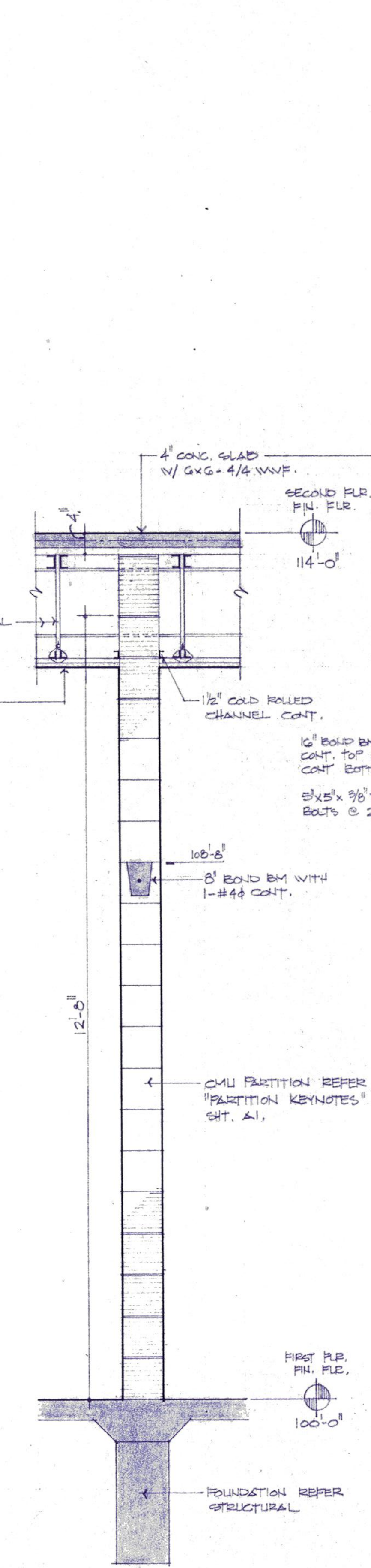
DRAWN HACKBUSH, 3
CHECKED DAURGHERTY
DATE JULY 11, 1989
JOB NUMBER 8907

SHEET
A8
OF 16 VOLUME I

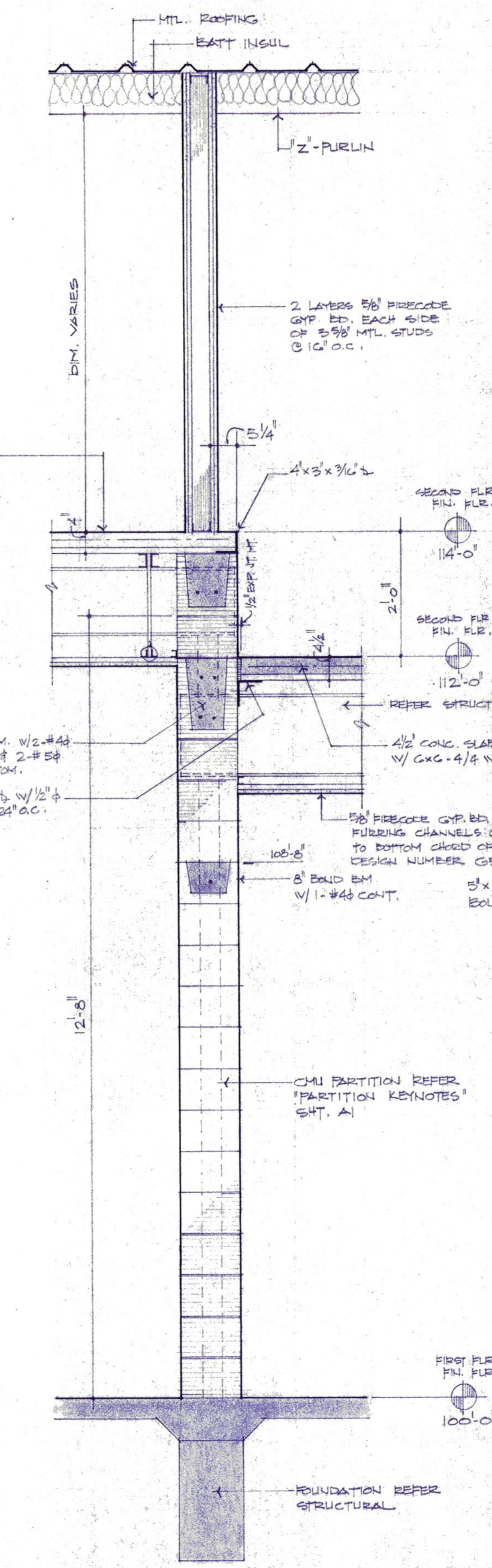




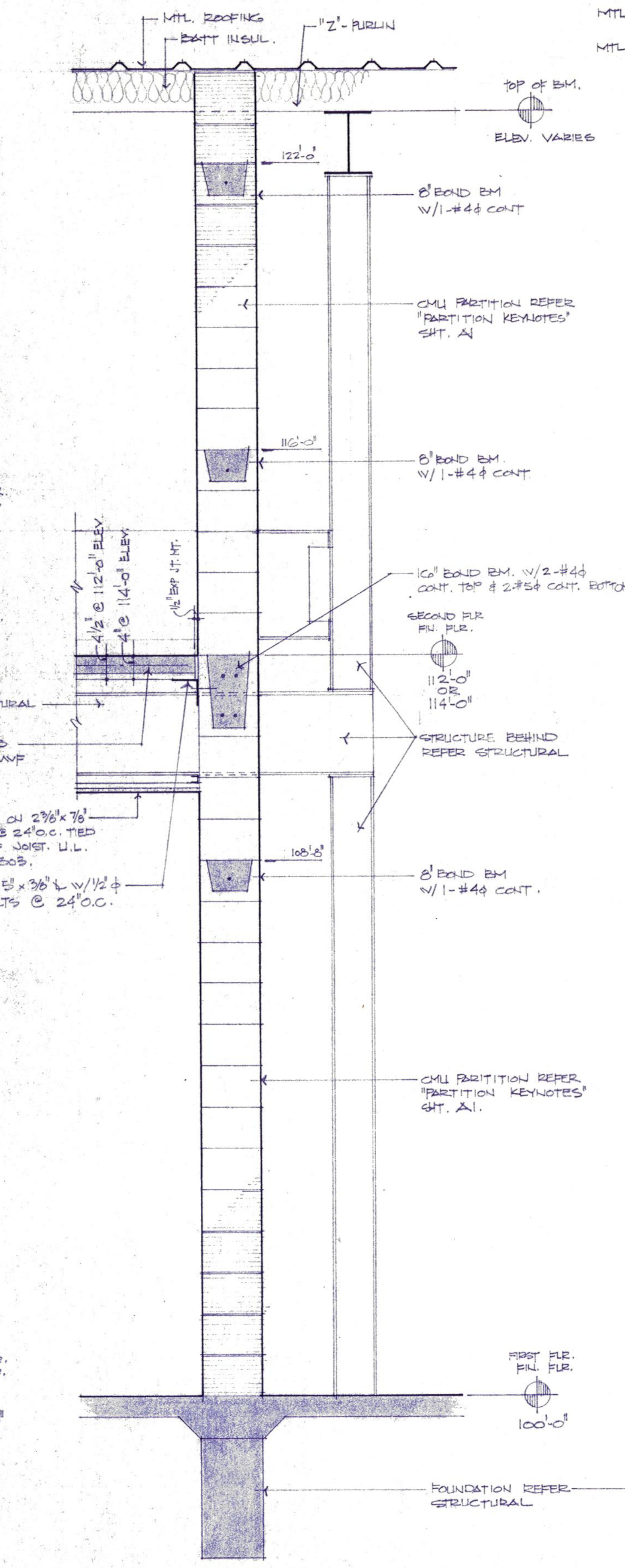
1 WALL SECTION



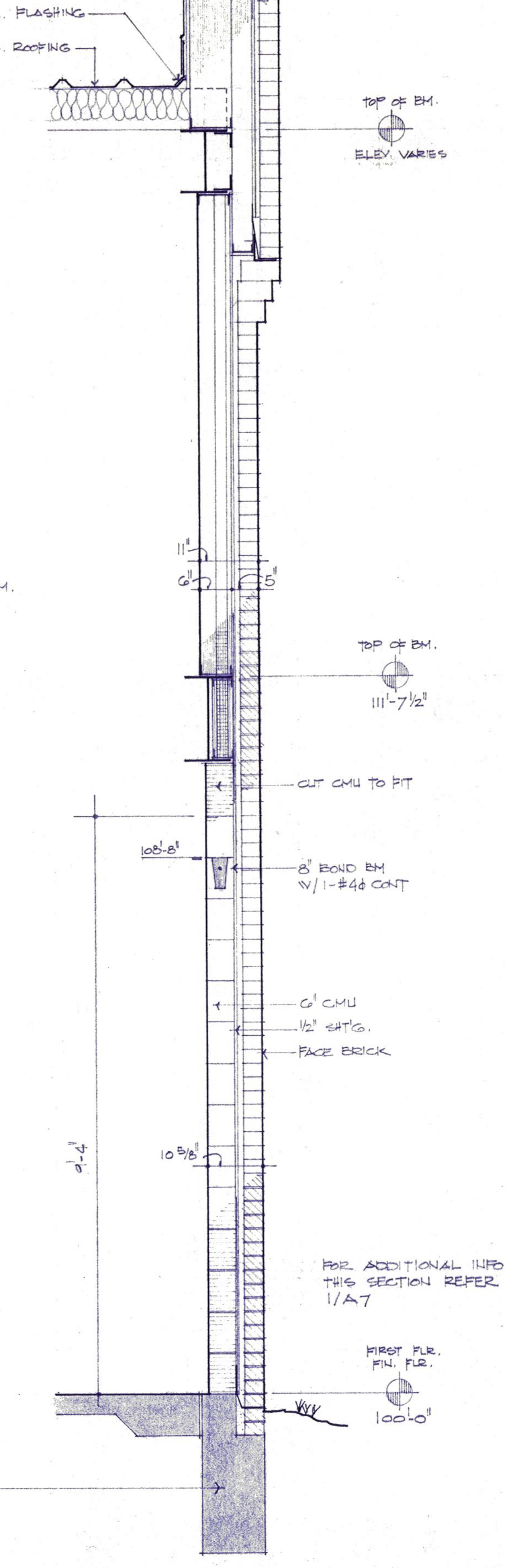
2 WALL SECTION



3 WALL SECTION



4 WALL SECTION



5 WALL SECTION



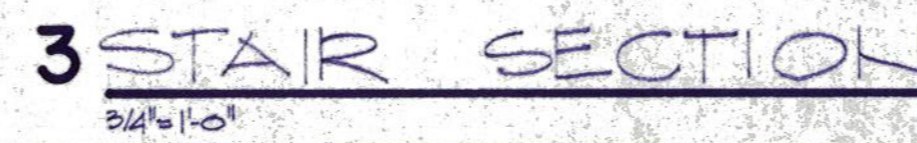
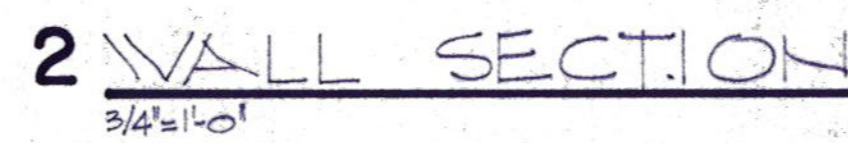
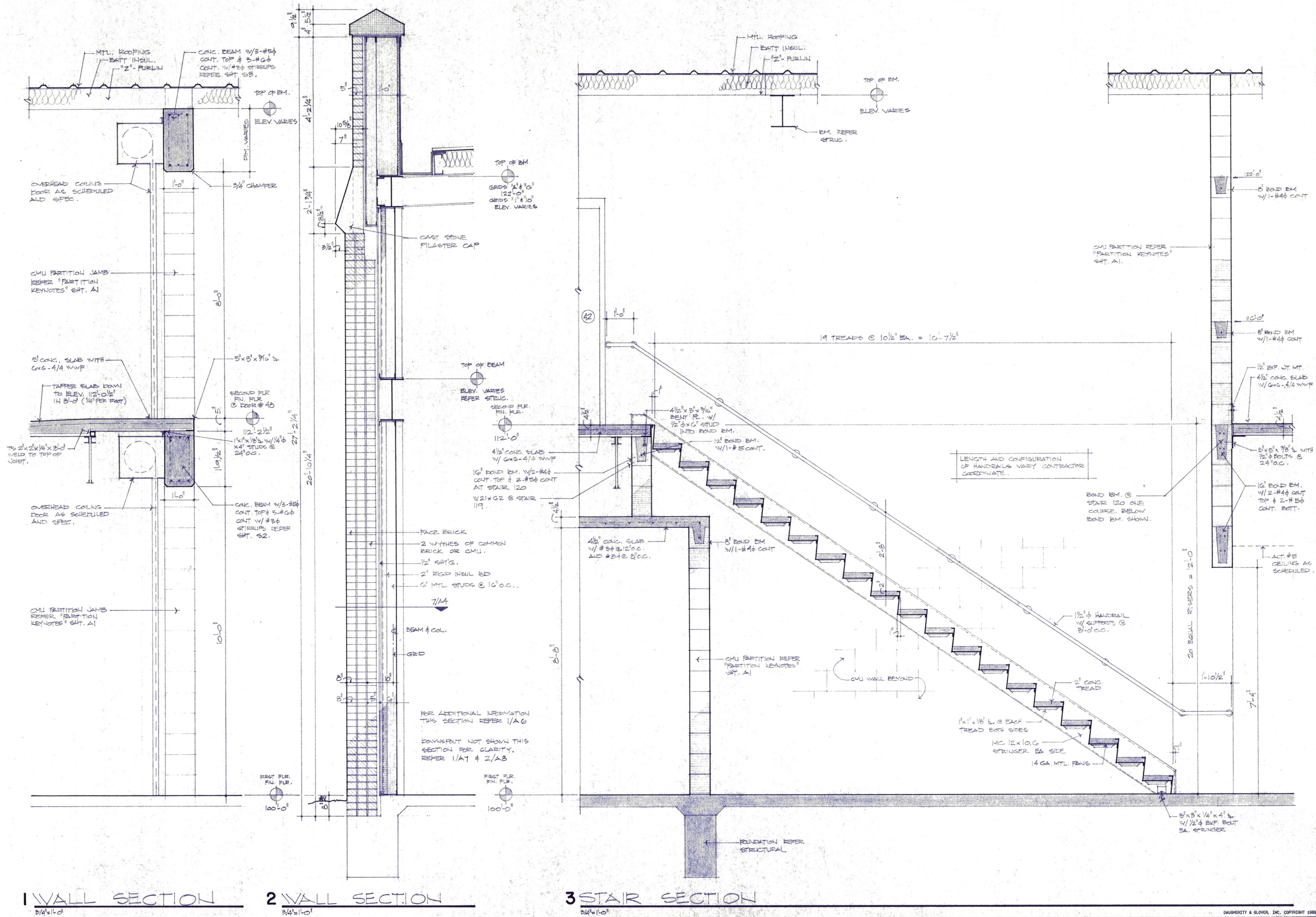
Daugherty & Glover, Inc.
ARCHITECTS & ENGINEERS
WICHITA FALLS, TEXAS 76808
2829 PLAZA PARKWAY, SUITE 400
(817) 891-3013

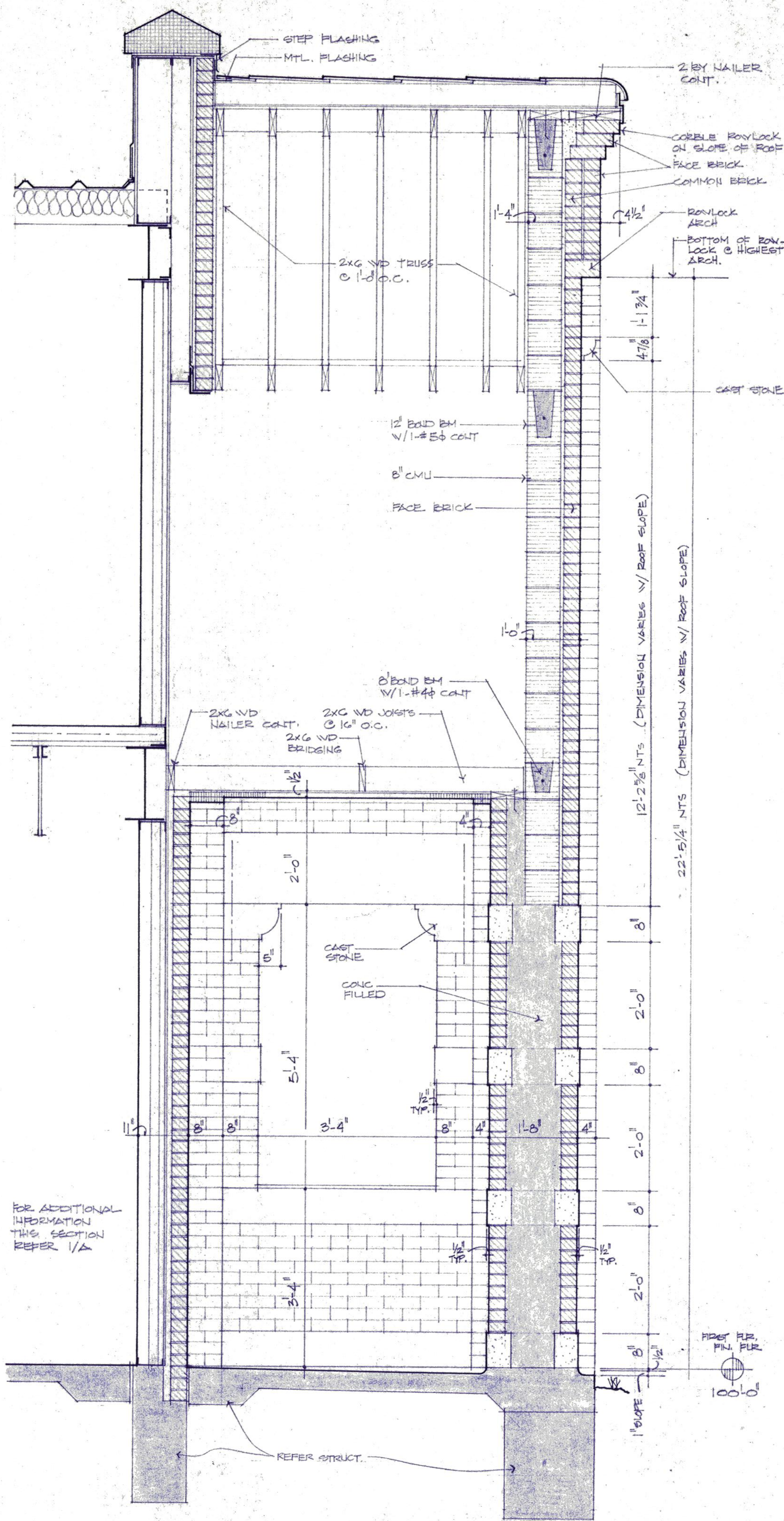
A New Maintenance Facility
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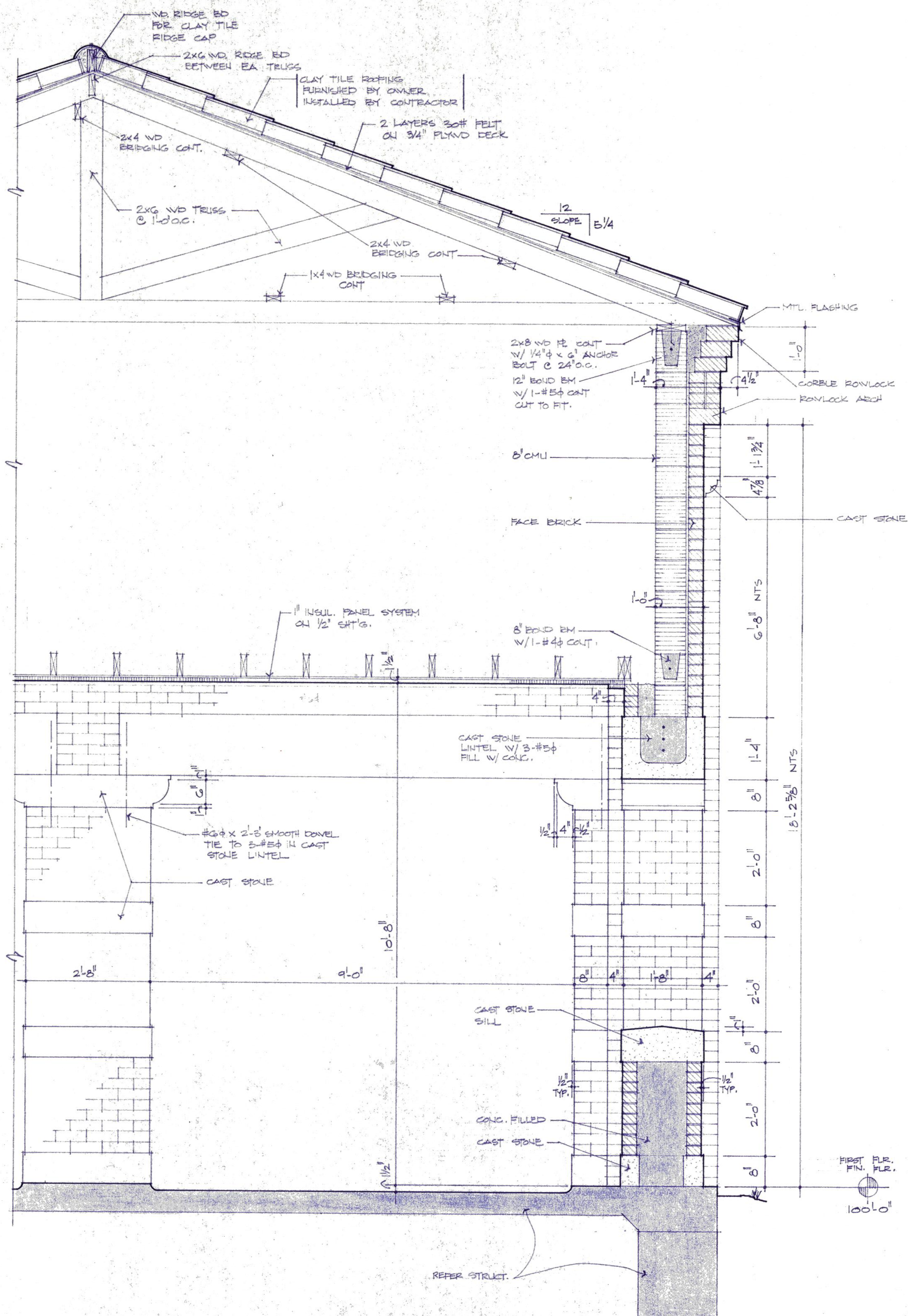
DRAWN HACKBUSCH, J.
CHECKED DAUGHERTY
DATE JULY 11, 1989
JOB NUMBER 8907

SHEET
A9
OF 10 VOLUME I





1 ENTRY PORCH SECTION
3/4" = 1'-0"



2 ENTRY PORCH SECTION
3/4" = 1'-0"



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SSS

DRAWN: HACKETT, J.

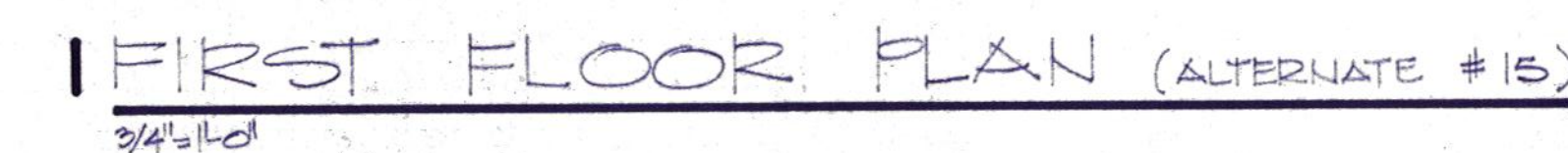
CHECKED: DAUGHERTY

DATE: JULY 11, 1989

JOB NUMBER: 8807

SHEET

All



**Daugherty
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2629 PLAZA PARKWAY, SUITE A4 (817) 691-3013

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DRAWN HACKBUSCH, E

CHECKED GLOVER

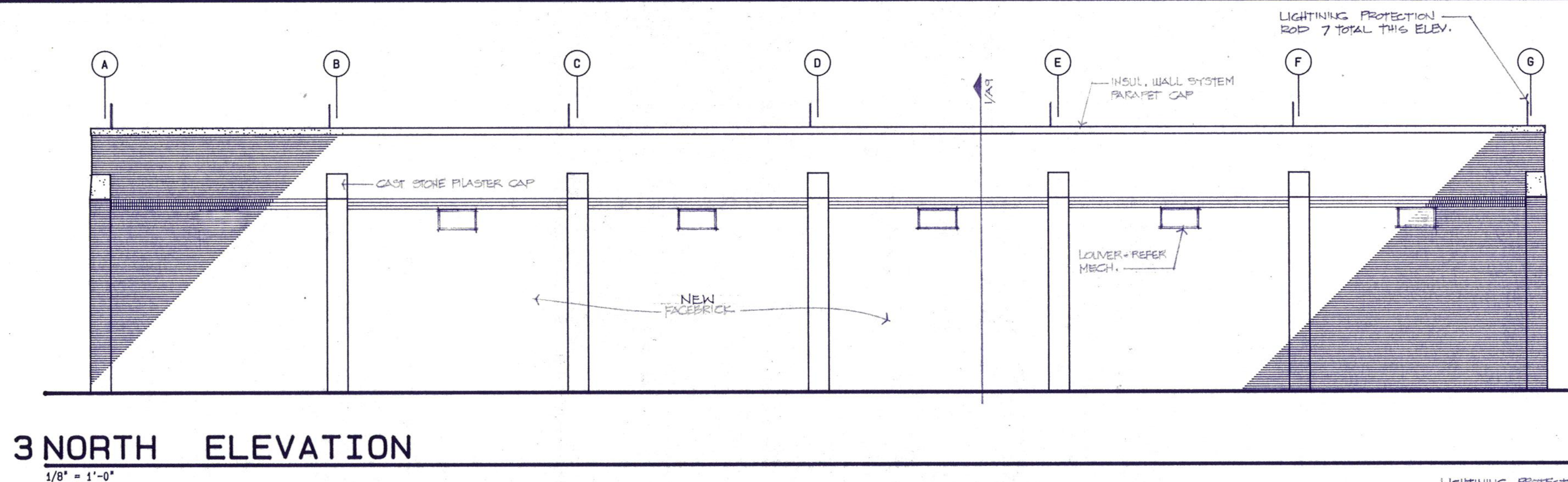
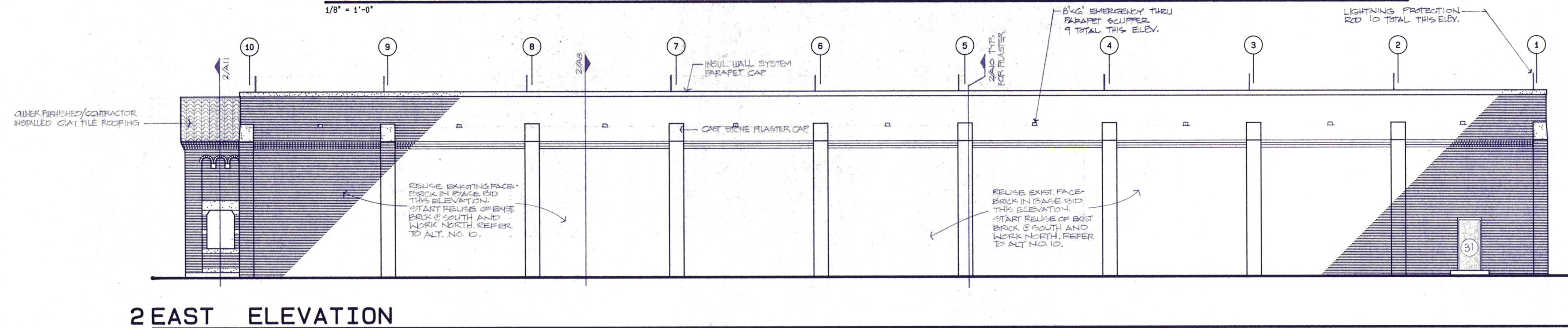
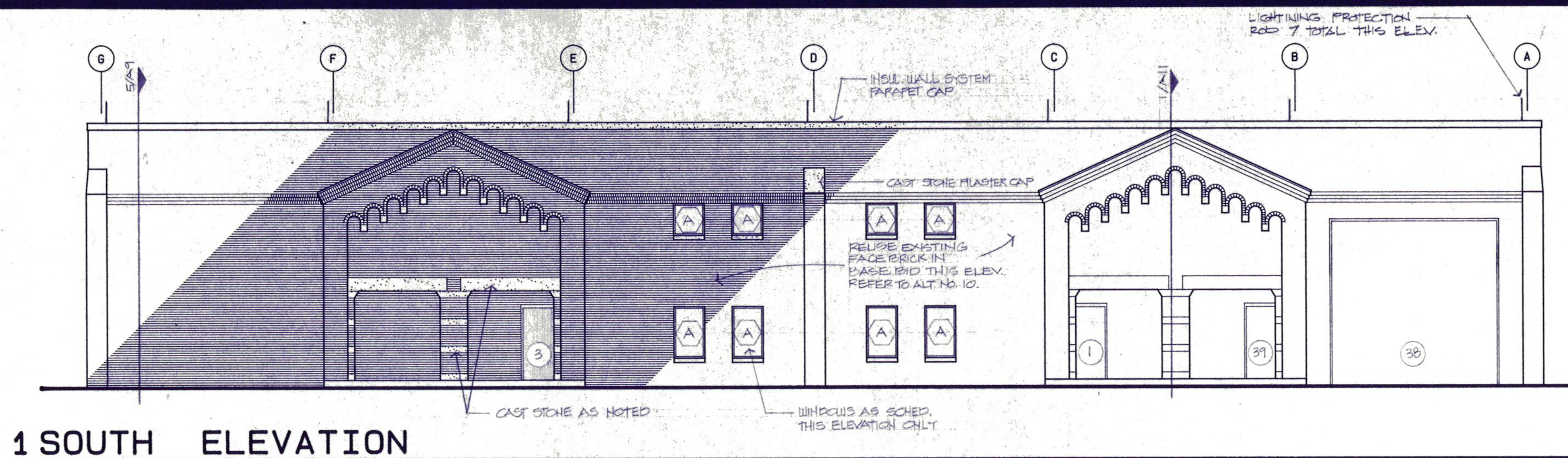
DATE JULY 11, 1989

JOB NUMBER 8907

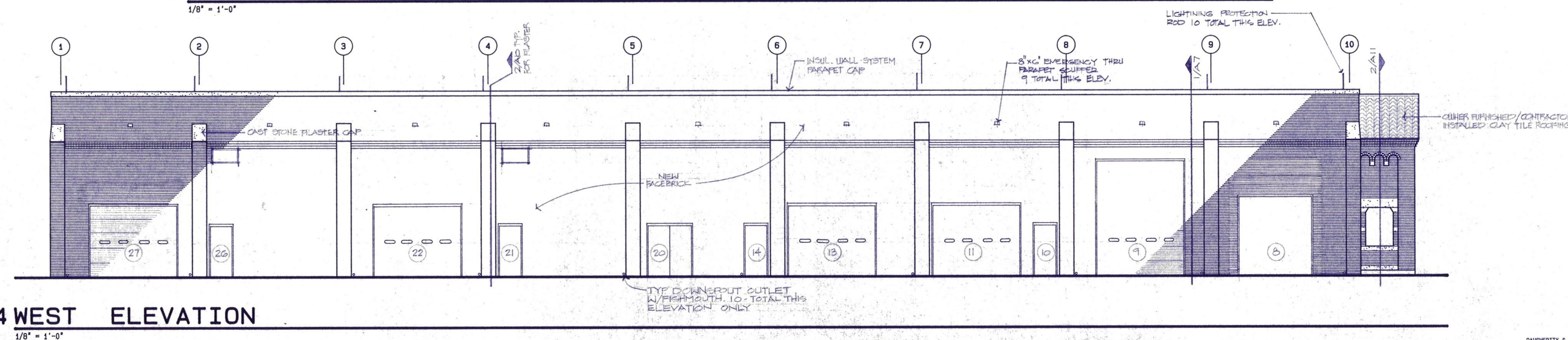
SHEET

A12

OF 16 VOLUME



NOTE: THESE ELEVATIONS ARE NOT TO SCALE VERTICALLY. REFER TO WALL SECTIONS FOR HEIGHT DIMENSIONS.



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DDSS

DRAWN HACKBUSCH, D

CHECKED DAUGHERTY

DATE JULY 11, 1989

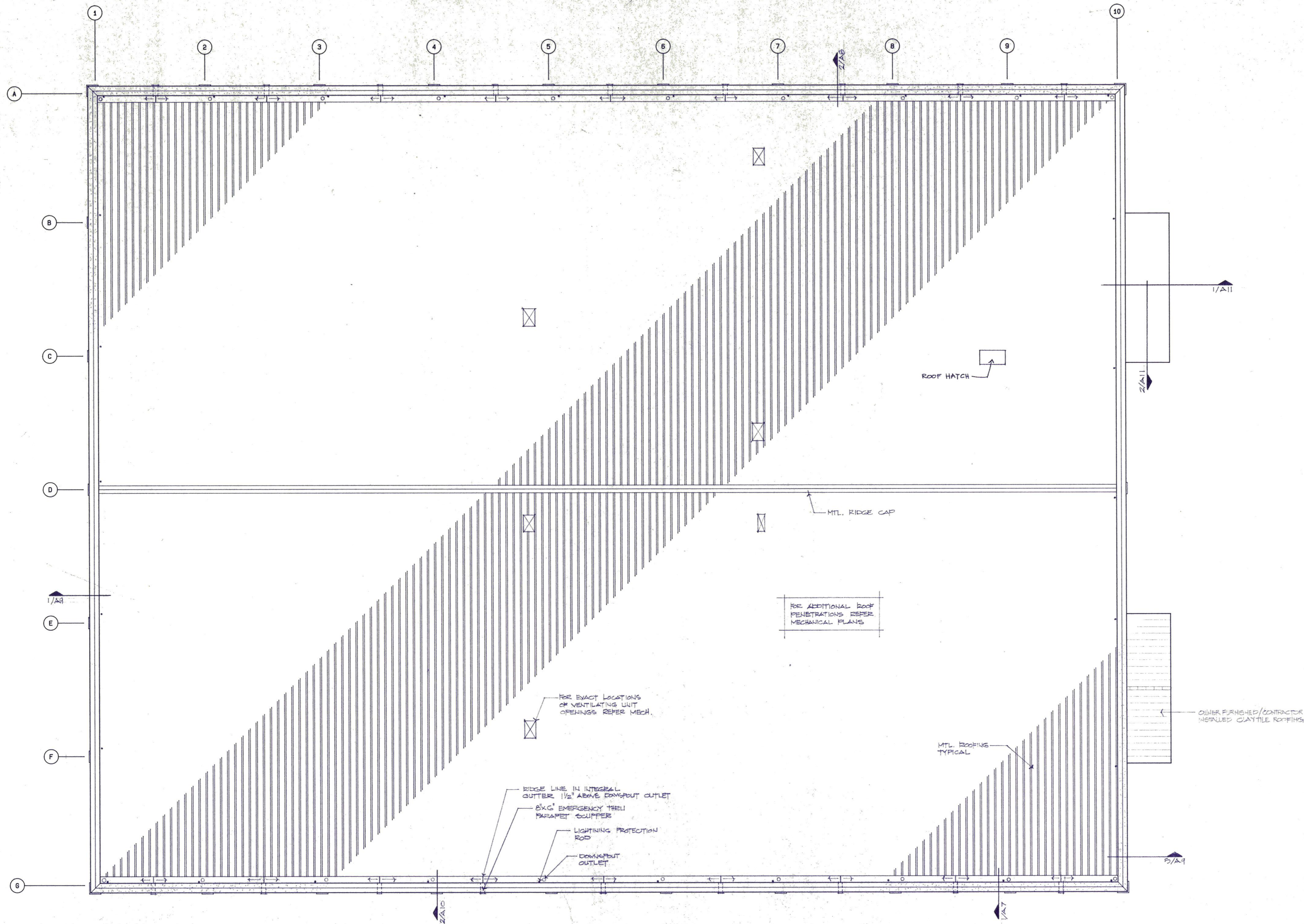
JOB NUMBER 8907

SHEET

A13

OF 10 VOLUME 1

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1 ROOF PLAN

1/8" = 1'-0"



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DRAWN HACKBUSCH,

CHECKED DAUGHERTY

DATE JULY 11, 1989

JOB NUMBER 8907

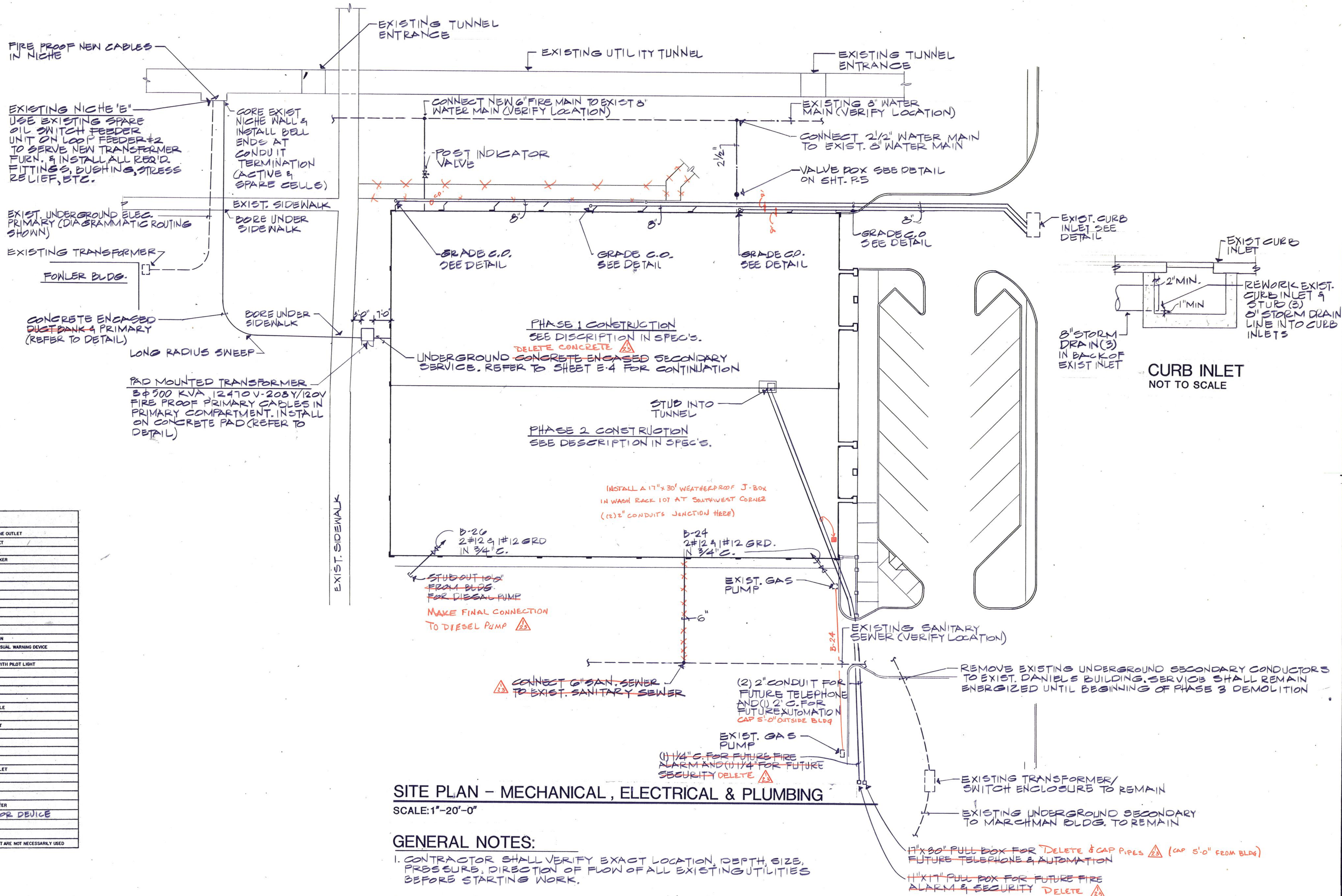
SHEET

A16

OF 16 VOLUME I

PLUMBING SYMBOLS	
—	COLD WATER (CW)
—	HOT WATER SUPPLY (HW)
—	HOT WATER RETURN (HWR)
—	GAS LINE
—	SANITARY SEWER
—	SANITARY VENT
—	AREA DRAIN LINE
—	ROOF DRAIN LINE
—	STORM DRAIN LINE
—	SUB-SOIL DRAIN LINE
—	DRAIN LINE
—	CLEANOUT (FLOOR, WALL OR GRADE AS INDICATED)
—	CAP ON END OF PIPE
—	AIR CHAMBER
—	FLEXIBLE CONNECTION (PIPE LINE)
—	CONCENTRIC REDUCER
—	BALL VALVE
—	BALANCE COCK
—	GLOBE VALVE
—	PLUG COCK, GAS STOP, PLUG VALVE
—	CHECK VALVE
—	STRAINER
—	ECCENTRIC REDUCER (ECC. RED.)
—	UNION
—	VALVE IN VERTICAL (TYPE AS NOTED)
—	RISER DOWN (ELBOW)
—	RISER UP (ELBOW)
—	RISE OR DROP
—	DIRECTION OF FLOW
—	DIRECTION OF PITCH DOWN
—	LAWN FAUCET (L.F.)
—	WALL, HYDRANT (W.H.) OR HOSE BIBB (H.B.) AS INDICATED
—	BRANCH CONNECTION OUT OF TOP
—	BRANCH CONNECTION OUT OF BOTTOM
—	BRANCH CONNECTION OUT OF SIDE
—	FLOOR DRAIN (F.D.) OR AREA DRAIN (A.D.) AS INDICATED
—	ROOF DRAIN (R.D.)
—	WASTE
—	VENT
—	V.T.R. VENT THRU ROOF
—	V-REV. VENT REVENT
—	REV. REVENT
—	E.W.C. ELECTRIC WATER COOLER
—	W.C. WATER CLOSET
—	C.O. CLEAN OUT
—	G.C.O. GRADE CLEAN OUT
—	W.C.O. WALL CLEAN OUT
—	F.C.O. FLUSH CLEAN OUT
—	P.C.O. PLUG CLEAN OUT
—	C.I. CAST IRON
—	V.T. VITRIFIED TILE
—	COP. COPPER
—	D.S. DOWNSPOUT
—	G.I. GALVANIZED IRON
—	A.F.F. ABOVE FINISHED FLOOR
—	PLUMBING FIXTURE DESIGNATION
—	FLOOR DRAIN
—	VENT THRU ROOF
—	SINK
—	LAVATORY
—	URINAL
—	E.W.C.
—	WALL MOUNTED W.C.
—	FLOOR MOUNTED W.C.

ELECTRICAL SYMBOLS	
—	FLUORESCENT LIGHT FIXTURE-LETTER DENOTES TYPE
—	RECESSED LIGHT FIXTURE-LETTER DENOTES TYPE
—	SURFACE MOUNTED LIGHT FIXTURE-LETTER DENOTES TYPE
—	WALL MOUNTED LIGHT FIXTURE-LETTER DENOTES TYPE
—	EXIT LIGHT-ARROW AS INDICATED
—	LIGHT FIXTURE EQUIPPED WITH EMERGENCY BALLAST
—	JUNCTION BOX (J-BX)
—	CONDUIT CONCEALED IN CEILING OR WALL
—	CONDUIT CONCEALED IN OR BELOW FLOOR-SEE SPECS
—	CONDUIT EXPOSED, PARALLEL TO BUILDING LINES
—	CONDUIT HOMERUN
—	CONDUIT STUBBED UP
—	CONDUIT STUBBED DOWN
—	FLEXIBLE CONDUIT, CONDUCTORS & SIZE AS REQUIRED
—	SINGLE POLE SWITCH
—	TWO POLE SWITCH
—	THREE WAY SWITCH
—	FOUR WAY SWITCH
—	KEY SWITCH
—	THREE WAY KEY SWITCH
—	FOUR WAY KEY SWITCH
—	SWITCH WITH PILOT LIGHT
—	DIMMER
—	MULTI-OUTLET ASSEMBLY-SEE SPECS
—	DUPLEX RECEPTACLE
—	SURFACE FLOOR DUPLEX RECEPTACLE
—	FLUSH FLOOR DUPLEX RECEPTACLE
—	SPECIAL PURPOSE ELECTRIC OUTLET
—	WALL TELEPHONE OUTLET
—	SURFACE FLOOR TELEPHONE OUTLET
—	FLUSH FLOOR TELEPHONE OUTLET
—	WALL COMPUTER TERMINAL
—	SURFACE FLOOR COMPUTER TERMINAL
—	FLUSH FLOOR COMPUTER TERMINAL
—	WALL MICROPHONE OUTLET
—	FLUSH FLOOR MICROPHONE OUTLET
—	WALL TELEVISION OUTLET
—	WALL VOLUME CONTROL
—	RECESSED CEILING SPEAKER
—	WALL SPEAKER
—	SINGLE FACE CLOCK
—	DOUBLE FACE CLOCK
—	CLOCK OUTLET ONLY
—	PUSH BUTTON
—	BELL
—	BUZZER
—	HORN
—	FIRE ALARM PULL STATION
—	FIRE ALARM AUDIBLE/VISUAL WARNING DEVICE
—	MOTOR CIRCUIT SWITCH
—	MOTOR CIRCUIT SWITCH WITH PILOT LIGHT
—	DISCONNECT SWITCH
—	CONTROLLER
—	MOTOR
—	THERMOSTAT
—	QUADRAPLEX RECEPTACLE
—	SMOKE DETECTOR
—	SMOKE DETECTOR IN DUCT
—	THERMAL DETECTOR
—	INTERCOM OUTLET
—	AUDIO VISUAL OUTLET
—	AUDIO OUTLET
—	FLUSH FLOOR AUDIO OUTLET
—	EXPLOSION PROOF SEAL
—	WEATHERPROOF
—	ABOVE FINISH FLOOR
—	A.F.F. GROUND FAULT INTERRUPTER
—	SECURITY DOOR DEVICE



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DD
SS
MM

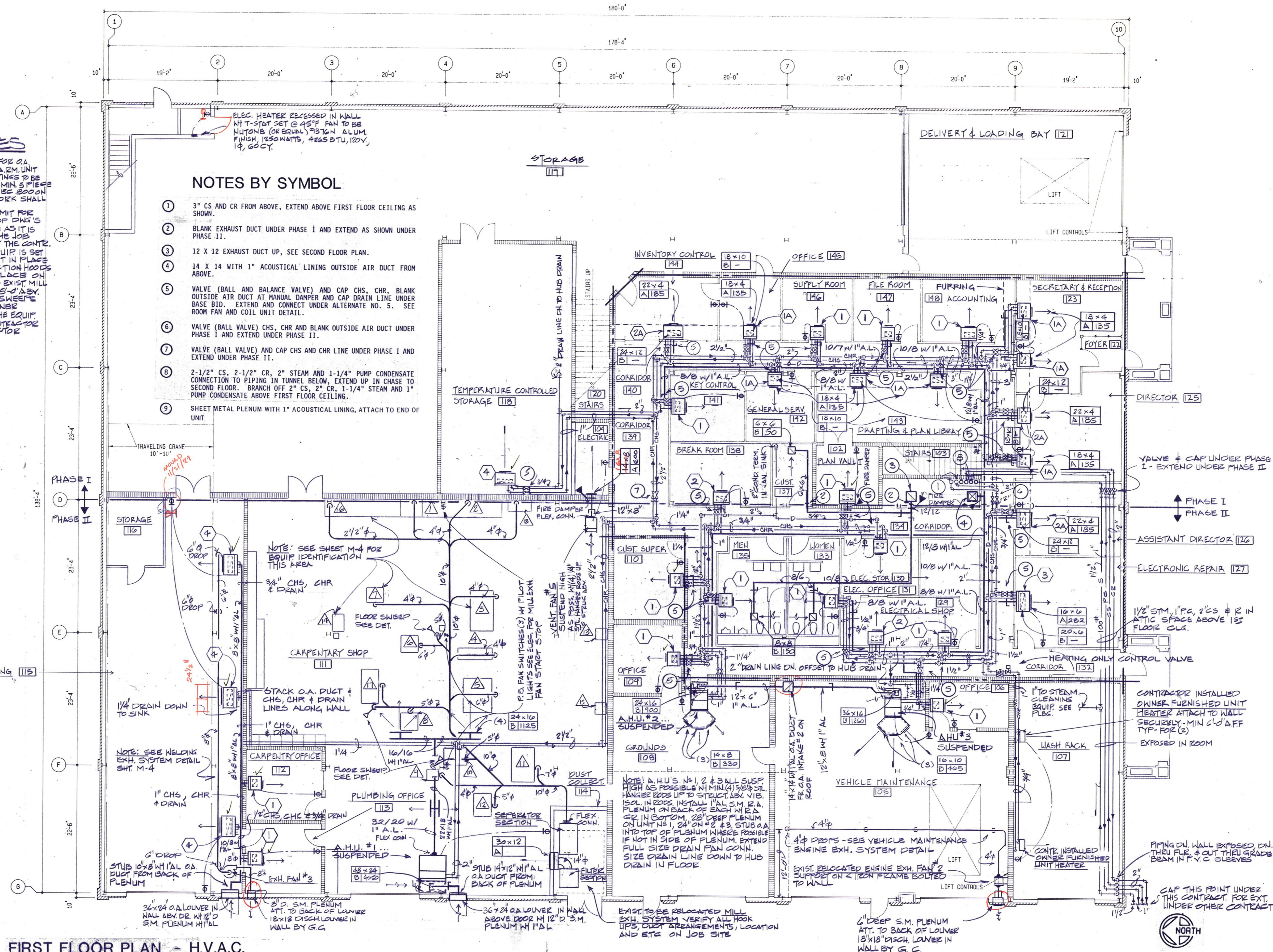
DRAWN W.D.M.JR
CHECKED D.W.G.
DATE JULY 11, 1989
JOB NUMBER 8907

SHEET
MEP-1
OF 6M, 95 95P
OF 1MEP VOLUME II

FRIBERG ASSOCIATES INC.
CONSULTING ENGINEERS
P.O. BOX 2080 • FORT WORTH, TEXAS 76113-2080
FAI PROJECT NO. 8904400

- 1- SEE ROOM # 6 UNIT SCHEDULE FOR Q.A. RUN OUT DUCT & V.D. SIZE TO EARM. UNIT ALL MILL EXH. DUCTWORK & FITTINGS TO BE SPECIAL ZONED PIPE W/ WELDED MIN. 5 PIECE ALL SEAL AIR TIGHT W/ EC 300 ON OUTSIDE ALL EXISTING DUCTWORK SHALL BE PAINTED P. META
- 3- CONTR. SHALL PREPARE & SUBMIT FOR REVIEW MIN. 1/4" SCALE S.M. SHOP DWG'S ON THE ENTIRE MILL EXH. SYSTEM AS IT IS TO BE INSTALLED FROM ON THE JOB FIELD MEASUREMENTS TAKEN BY THE CONTR. ON THE JOBSITE AFTER EQUIP IS SET IN PLACE. EQUIP WILL BE SET IN PLACE W/ THE EXIST. MILL EXH. COLLECTION HOODS & DUCT ALONG W/ GATES IN PLACE ON EQUIP. CONTR. WILL CONN. TO EXIST. MILL EXH. DUCTWORK & APPROX. 5'-0" DIA. V.D. W/ 1/4" SCALE FIELD MEASUREMENTS. WHEN REFERENCE IS MADE TO OWNER FURNISHED EQUIPMENT THEN THE EQUIP IS TO BE FURNISHED TO THE CONTRACTOR FOR INSTALLATION BY CONTRACTOR

- 1 3" CS AND CR FROM ABOVE, EXTEND ABOVE FIRST FLOOR CEILING AS SHOWN.
- 2 BLANK EXHAUST DUCT UNDER PHASE I AND EXTEND AS SHOWN UNDER PHASE II.
- 3 12 X 12 EXHAUST DUCT UP, SEE SECOND FLOOR PLAN.
- 4 14 X 14 WITH 1" ACOUSTICAL LINING OUTSIDE AIR DUCT FROM ABOVE.
- 5 VALVE (BALL AND BALANCE VALVE) AND CAP CHS, CHR, BLANK OUTSIDE AIR DUCT AT MANUAL DAMPER AND CAP DRAIN LINE UNDER BASE BID. EXTEND AND CONNECT UNDER ALTERNATE NO. 5. SEE ROOM FAN AND COIL UNIT DETAIL.
- 6 VALVE (BALL VALVE) CHS, CHR AND BLANK OUTSIDE AIR DUCT UNDER PHASE I AND EXTEND UNDER PHASE II.
- 7 VALVE (BALL VALVE) AND CAP CHS AND CHR LINE UNDER PHASE I AND EXTEND UNDER PHASE II.
- 8 2-1/2" CS, 2-1/2" CR, 2" STEAM AND 1-1/4" PUMP CONDENSATE CONNECTION TO PIPING IN TUNNEL BELOW, EXTEND UP IN CHASE TO SECOND FLOOR. BRANCH OFF 2" CS, 2" CR, 1-1/4" STEAM AND 1" PUMP CONDENSATE ABOVE FIRST FLOOR CEILING.
- 9 SHEET METAL PLENUM WITH 1" ACOUSTICAL LINING, ATTACH TO END OF UNIT.



FIRST FLOOR PLAN - H.V.A.C.

$$1/8'' = 1' - 0''$$

PLOTTED: MAY 3, 196

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FAI PROJECT NO. 89044.00

DRAWN	JCC
CHECKED	DWG
DATE	JULY 11, 1989
JOB NUMBER	8907
SHEET	
M-2	
OF 6M	VOLUME II

A New Maintenance Facility
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Wichita Falls, Texas

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& Glover, Inc.**
1807 BROOK WICHITA FALLS, TEXAS 76301
ARCHITECTS
& ENGINEERS
(817) 322-3013



CARPENTRY SHOP EQUIPMENT
SCHEDULE-OWNER FURNISHED

- △ RADIAL ARM SAW
- △ MITRE SAW
- △ TABLE SAW 12" POWER MATIC
- △ JOINTER
- △ TIME SAVER SANDER
- △ PLANER
- △ SHAPER
- △ BELT SANDER
- △ BAND SAW
- △ BORING MACHINE
- △ MOULDING MACHINE
- △ DISC SANDER
- △ FLOOR DRILL PRESS
- △ TABLE DRILL PRESS
- △ GRINDER
- △ 1" BELT SANDER
- △ TABLE SAW 10" DELTA
- △ MITRE SAW ROCKWELL

NOTE: SEE GENERAL NOTE #3 SHT. M-2
4 SPECIFICATIONS ALT. #6.

HVAC SYMBOLS

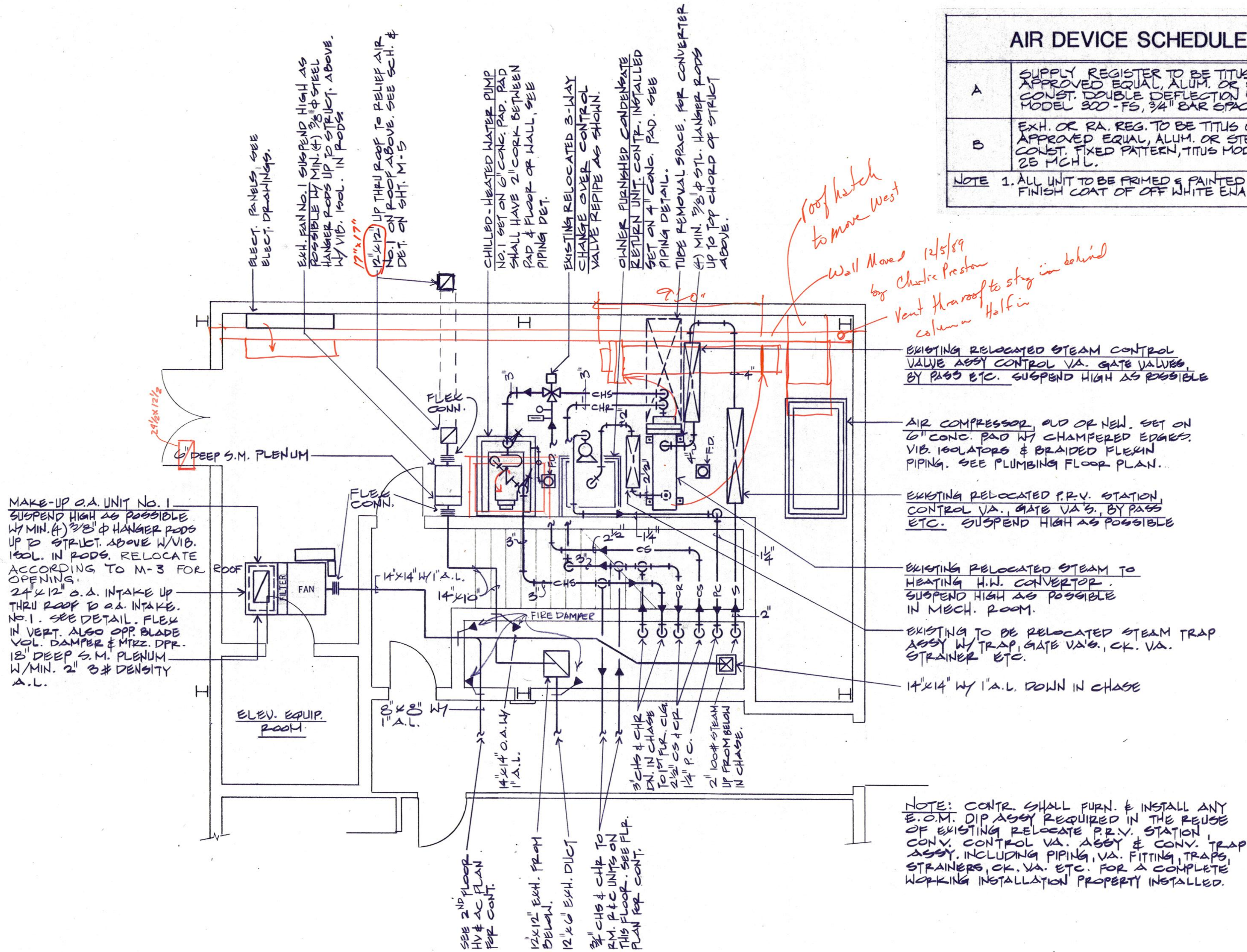
- S STEAM LINE
- 100# STEAM LINE (100# PRESSURE)
- PC PUMPED CONDENSATE
- CHS CHILLED-HEATED SUPPLY
- CHR CHILLED-HEATED RETURN
- D DRAIN LINE
- X PIPE ANCHOR
- THO WAY VA. (MTRZ.)
- THREE WAY VA. (MTRZ.)
- GATE VALVE
- GLOBE VALVE
- BALL VALVE THRU 2"
- B.F. 2 1/2" & ABOVE
- CHECK VALVE
- BALANCE VALVE
- ECC. REDUCER
- CONC. REDUCER
- STRAINER
- VA. IN DROP AS STATED
- DIRECTION OF FLOW
- SLOPE DN.
- UNION OR FLG.
- F & T TRAP
- BUCKET TRAP
- THERMOSTAT
- GRILLE
- REGISTER
- EXH. REG.
- RETURN AIR
- OA. OUTSIDE AIR
- AL. ACOUSTIC LINING
- FC. FLEX. CONN.
- SM. SHEET METAL
- A.A.V. AUTOMATIC AIR VENT
- M.A.V. MANUAL AIR VENT
- A.H.U. AIR HANDLING UNIT

- △ FIRESTAT
- △ DUCT W.A.L.
- △ AIR DEVICE DESIGNATION
- △ THERMOMETER
- △ THERMO. WELL
- △ VALVED PRESSURE GAUGE CONN.
- △ P.R.V. PRESSURE REG. VA.

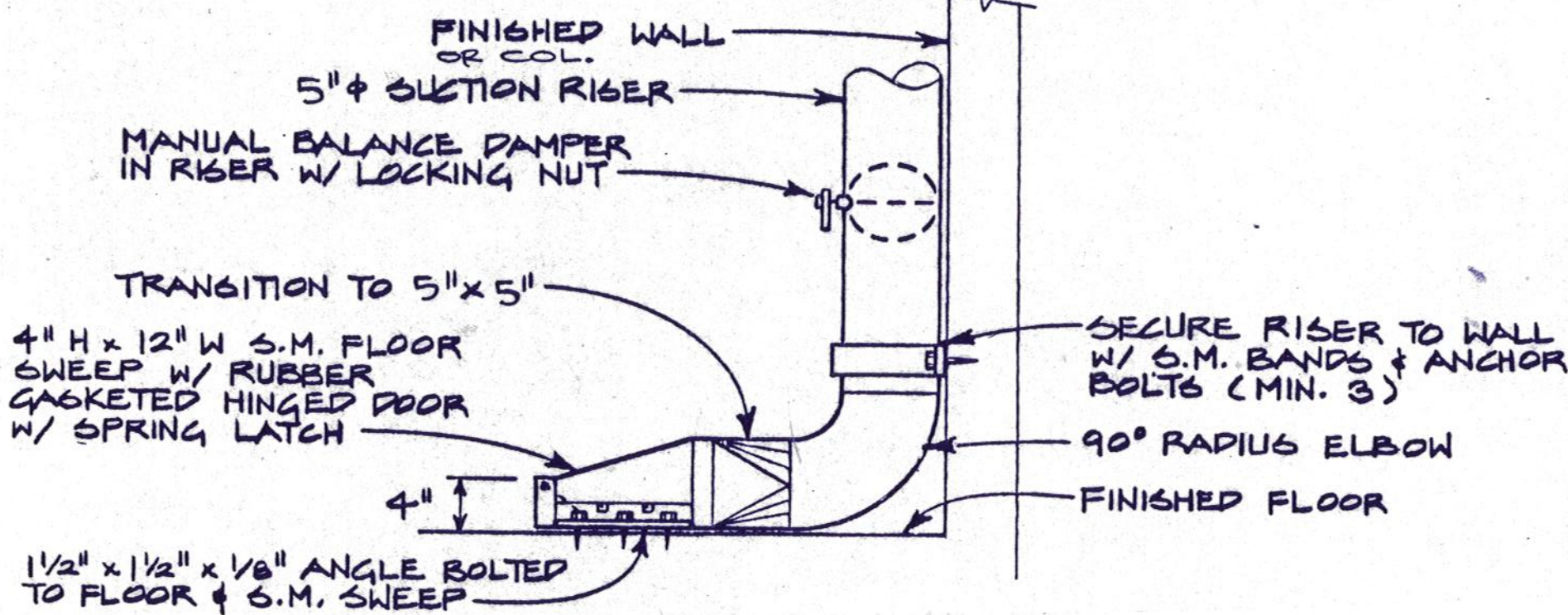
AIR DEVICE SCHEDULE

A	SUPPLY REGISTER TO BE TITUS OR APPROVED EQUAL, ALUM. OR STEEL CONST. DOUBLE DEFLECTION REG., TITUS MODEL 320 - FS, 3/4" BAR SPACING.
B	EXH. OR RA. REG. TO BE TITUS OR APPROVED EQUAL, ALUM. OR STEEL CONST. FIXED PATTERN, TITUS MODEL NO. 25 MCH.L.

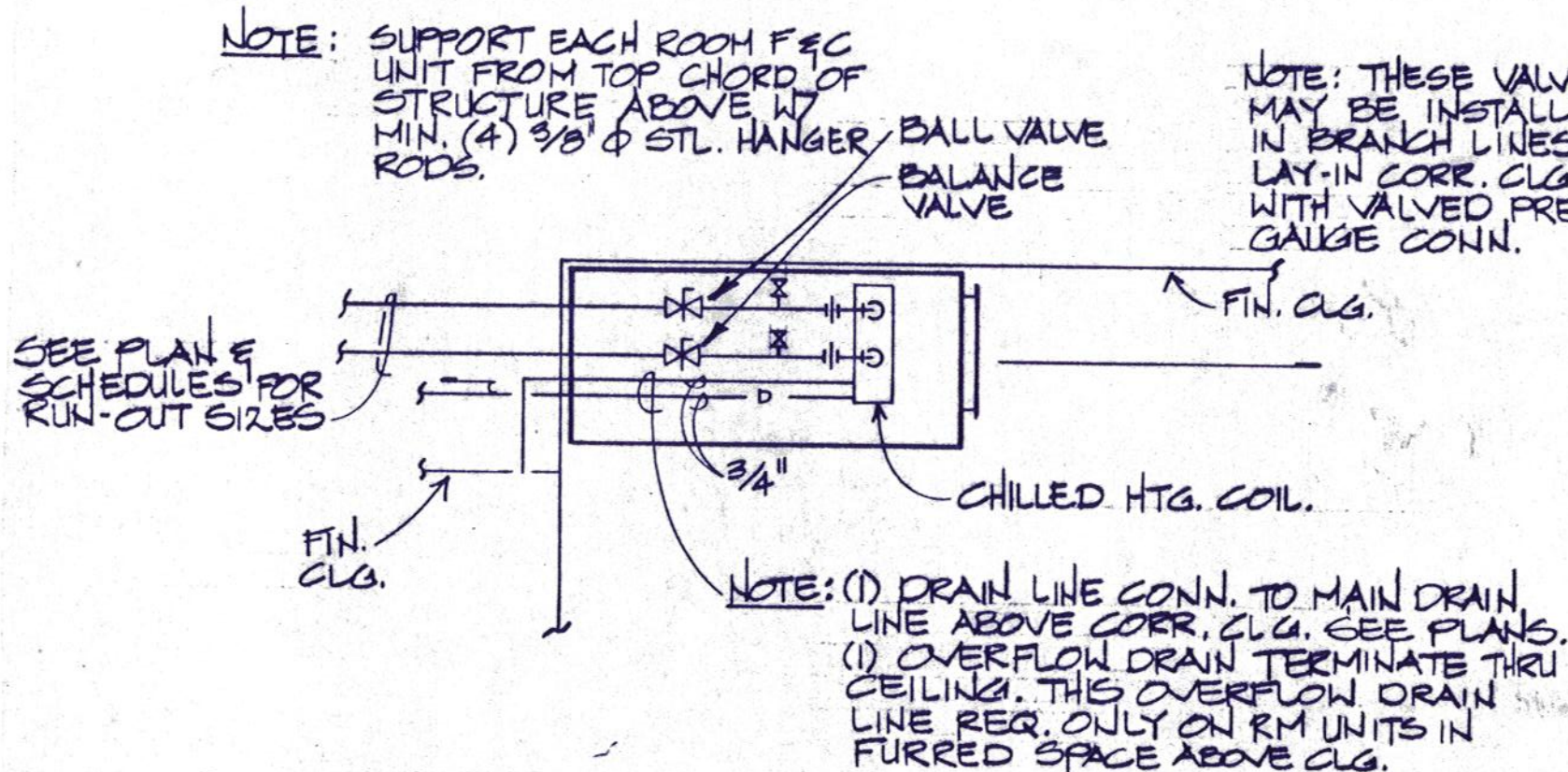
NOTE 1. ALL UNIT TO BE PRIMED & PAINTED WITH FINISH COAT OF OFF WHITE ENAMEL PAINT.



LARGE SCALE MECHANICAL ROOM PLAN (204)
SCALE: 1/4" = 1'-0"



FLOOR SWEEP DETAIL
NOT TO SCALE



ROOM F & C UNIT DETAIL
NOT TO SCALE



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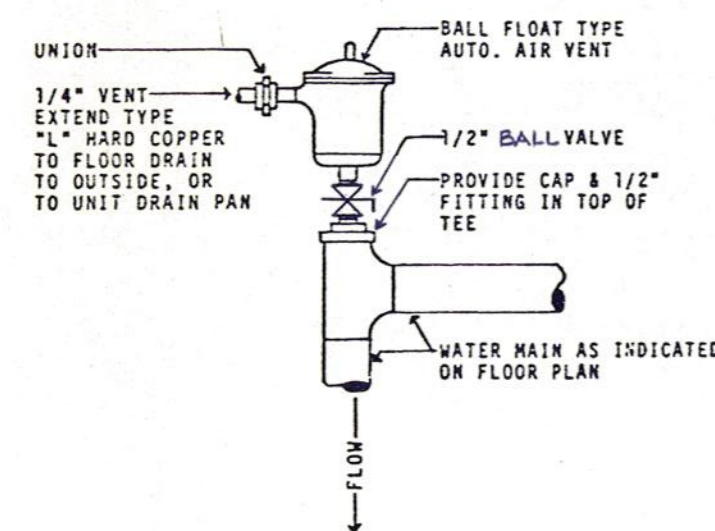
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DD
SS
MM

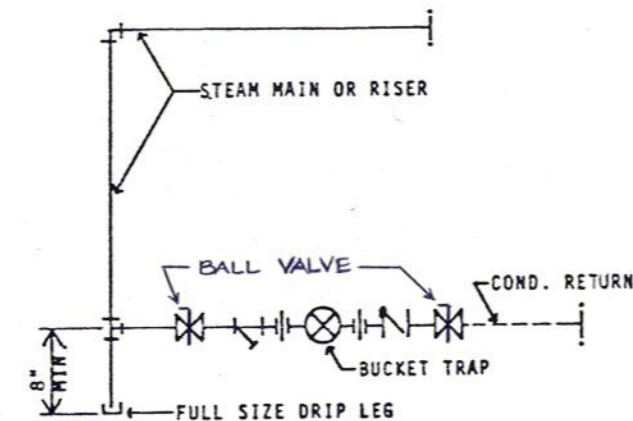
DRAWN GFF
CHECKED DNG
DATE JULY 11, 1989
JOB NUMBER 2907

SHEET
M-4
OF 6M VOLUME II

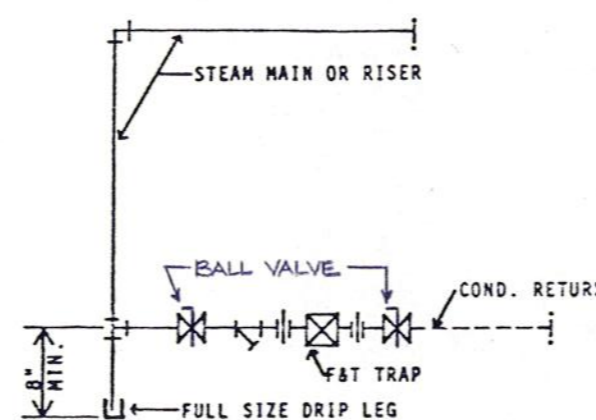
FRIBERO ASSOCIATES INC.
CONSULTING ENGINEERS
P.O. BOX 2080 • FORT WORTH, TEXAS 76113-2080
FAI PROJECT NO. 89044.00



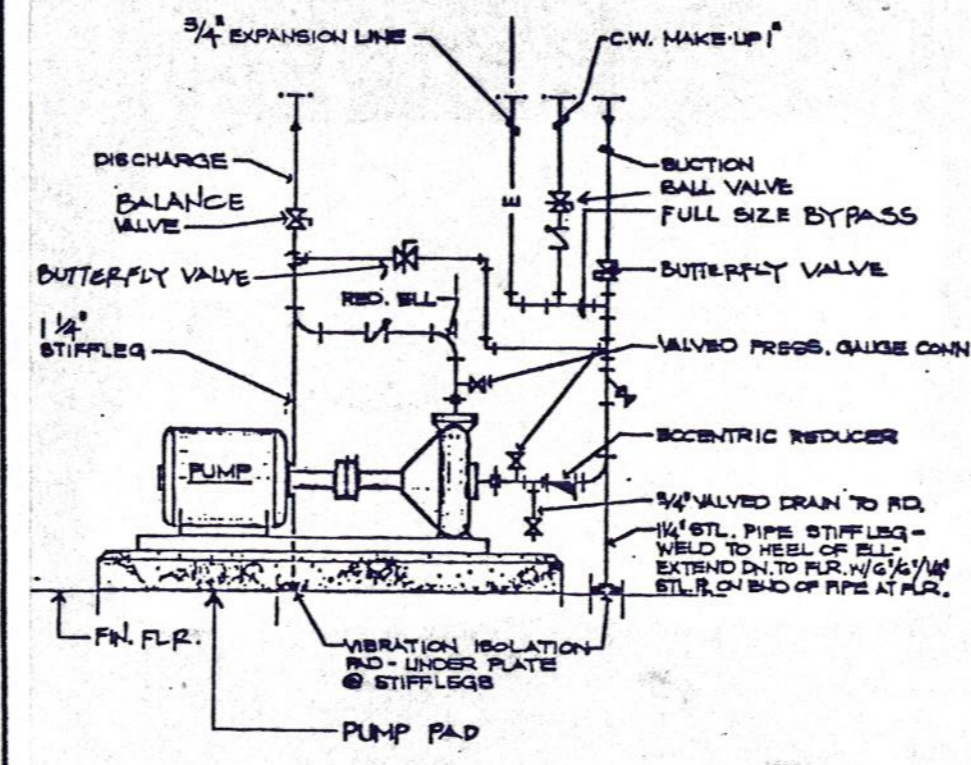
1 AUTOMATIC AIR VENT



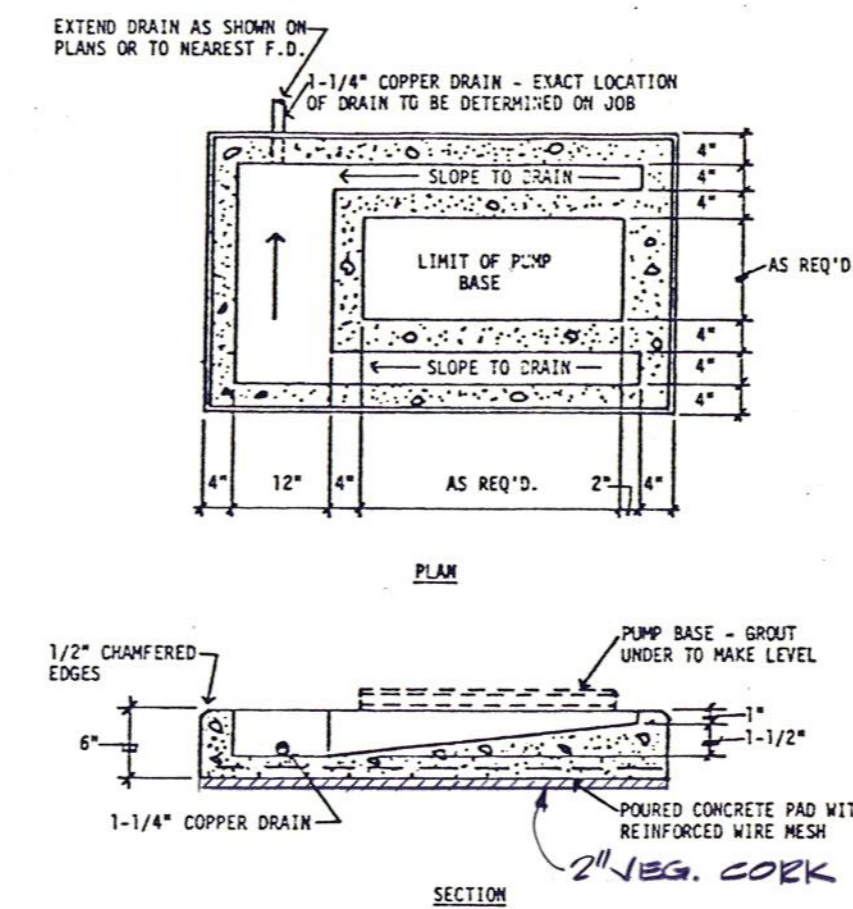
2 HIGH PRESSURE
END OF MAIN DRIP



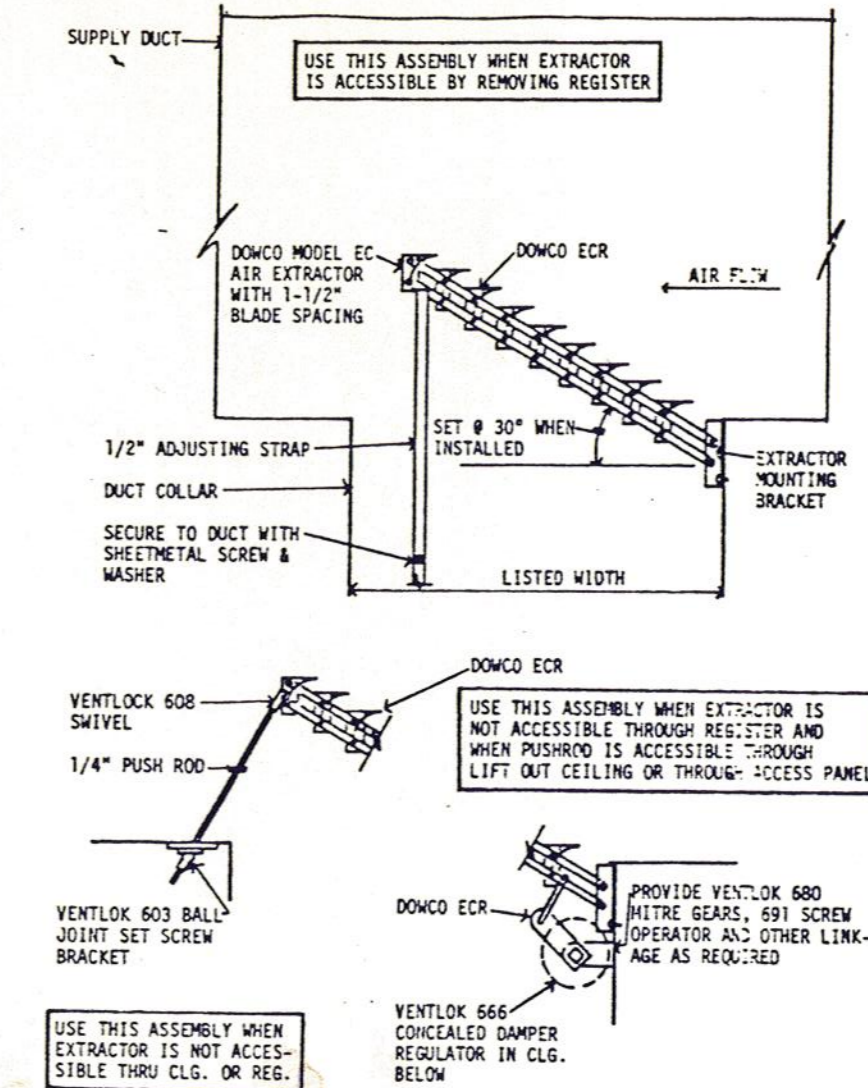
3 LOW PRESSURE
END OF MAIN DRIP



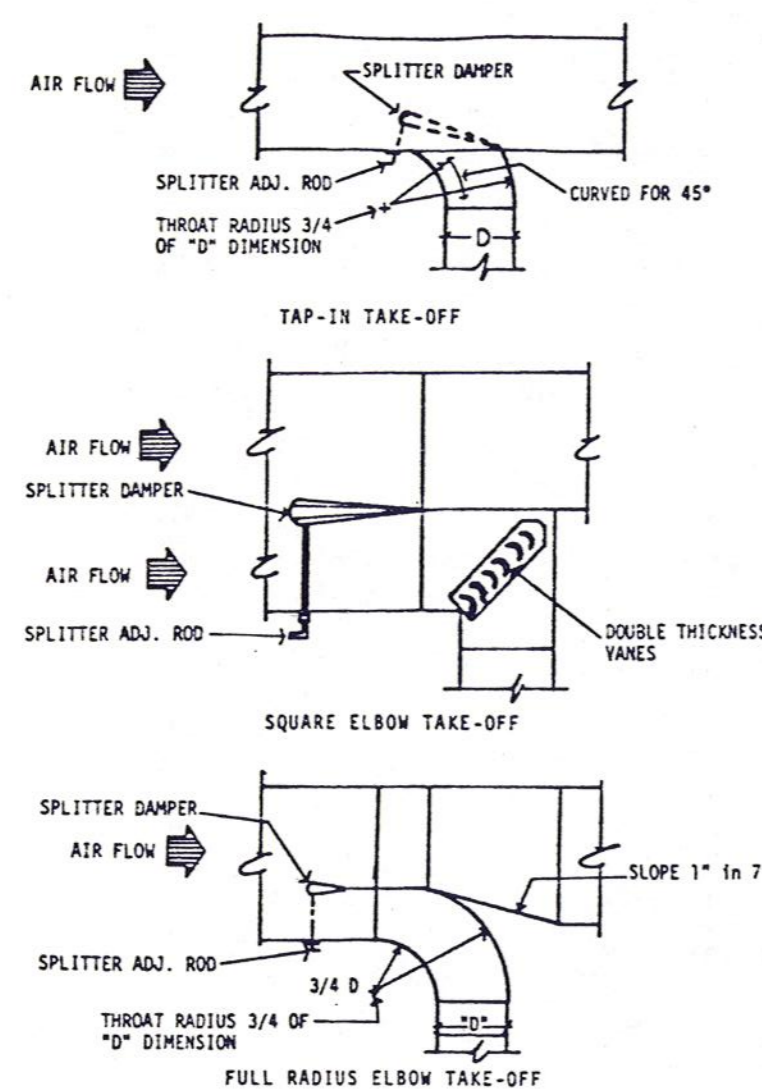
4 PUMP PIPING



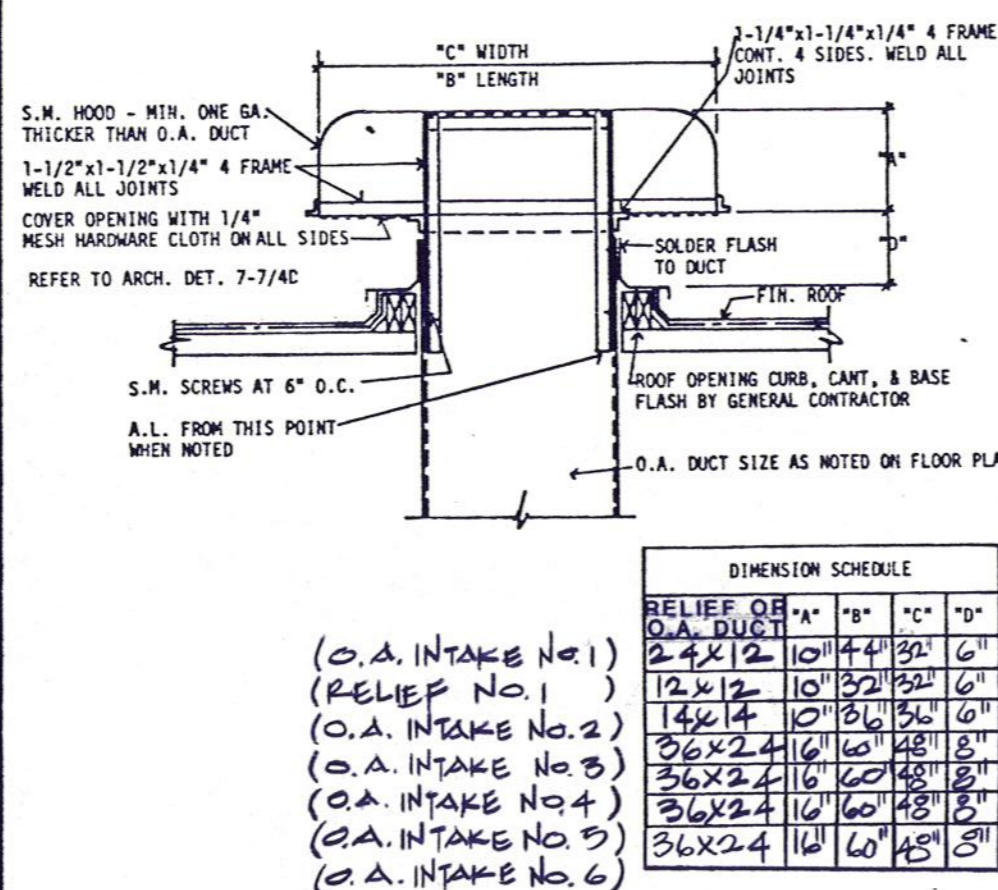
5 PUMP PAD



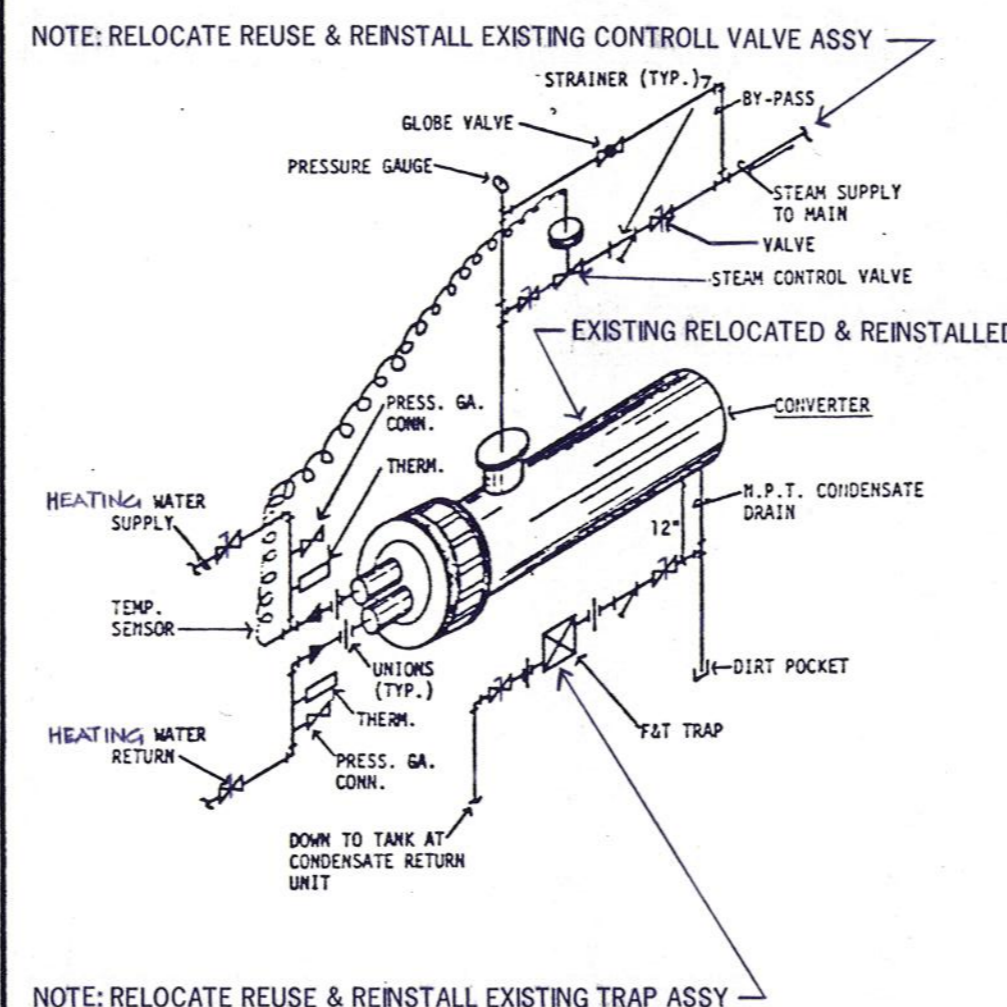
6 AIR EXTRACTOR DETAIL



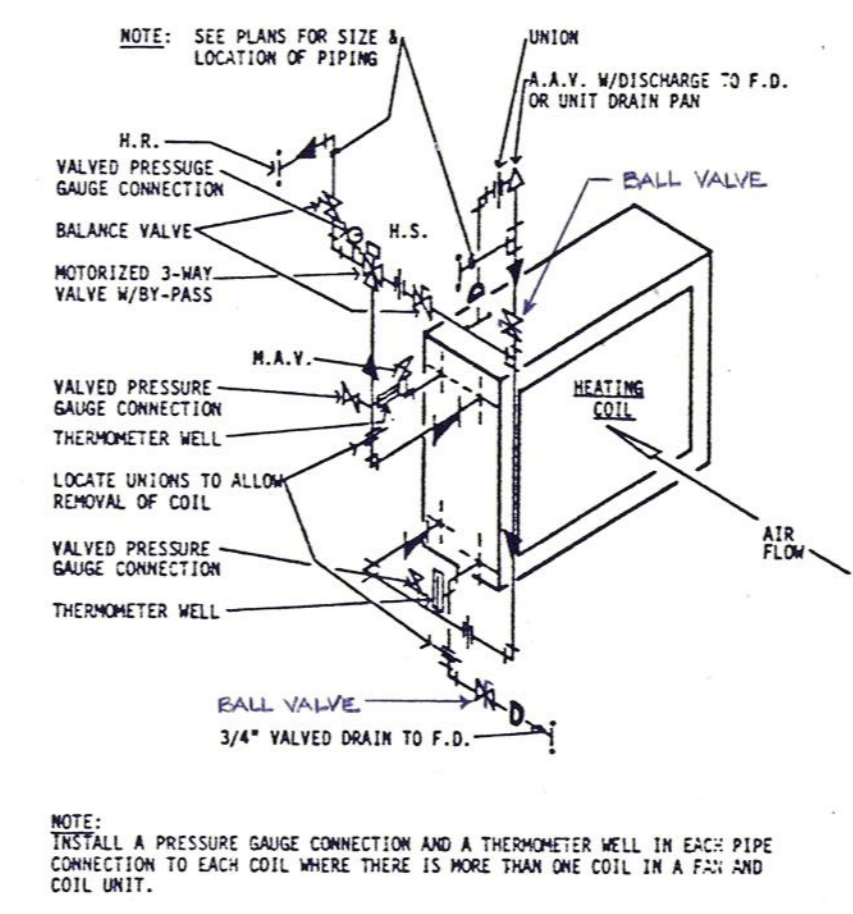
7 DUCT CONSTRUCTION DETAIL



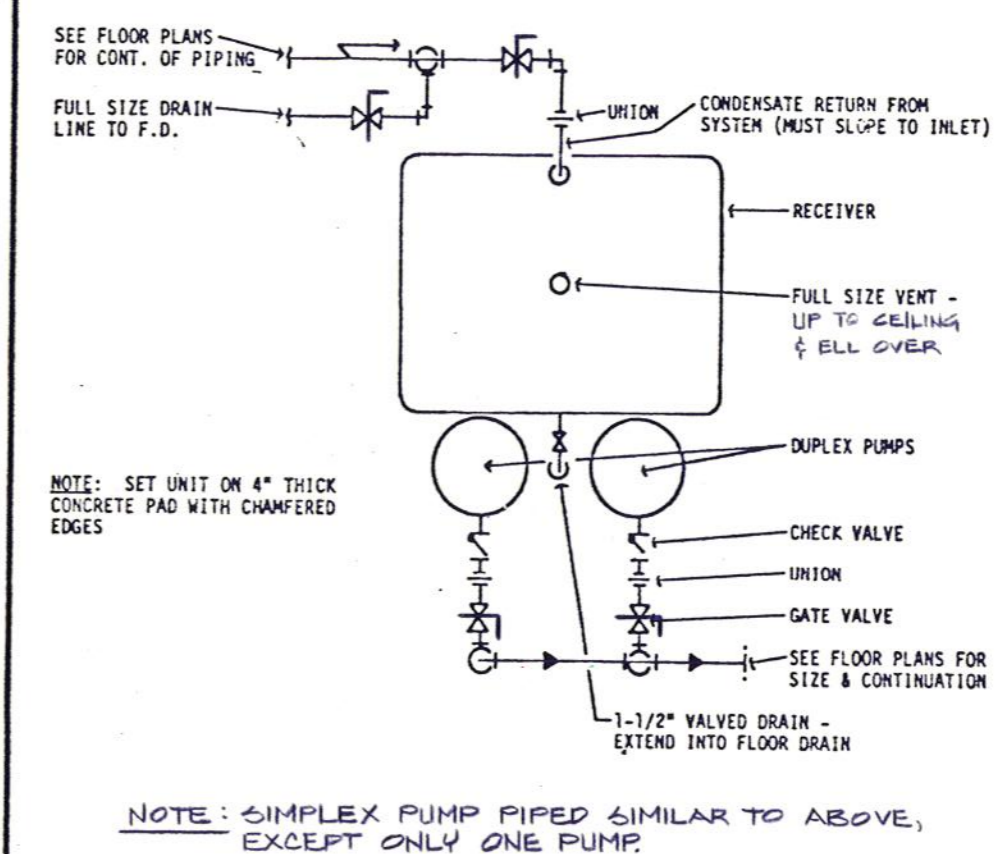
8 RELIEF OR
ROOF O.A. INTAKE



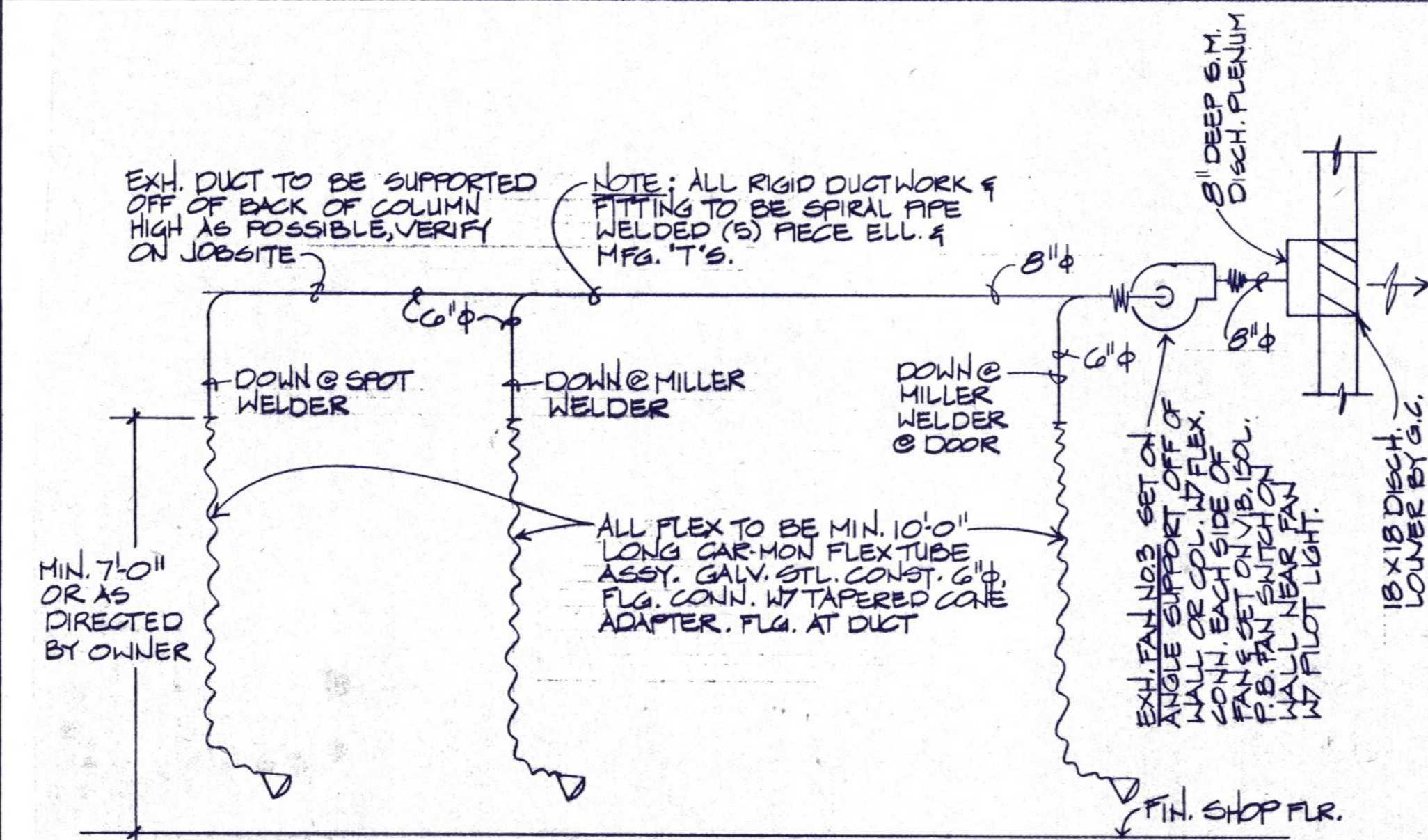
9 CONVERTER PIPING DIAGRAM



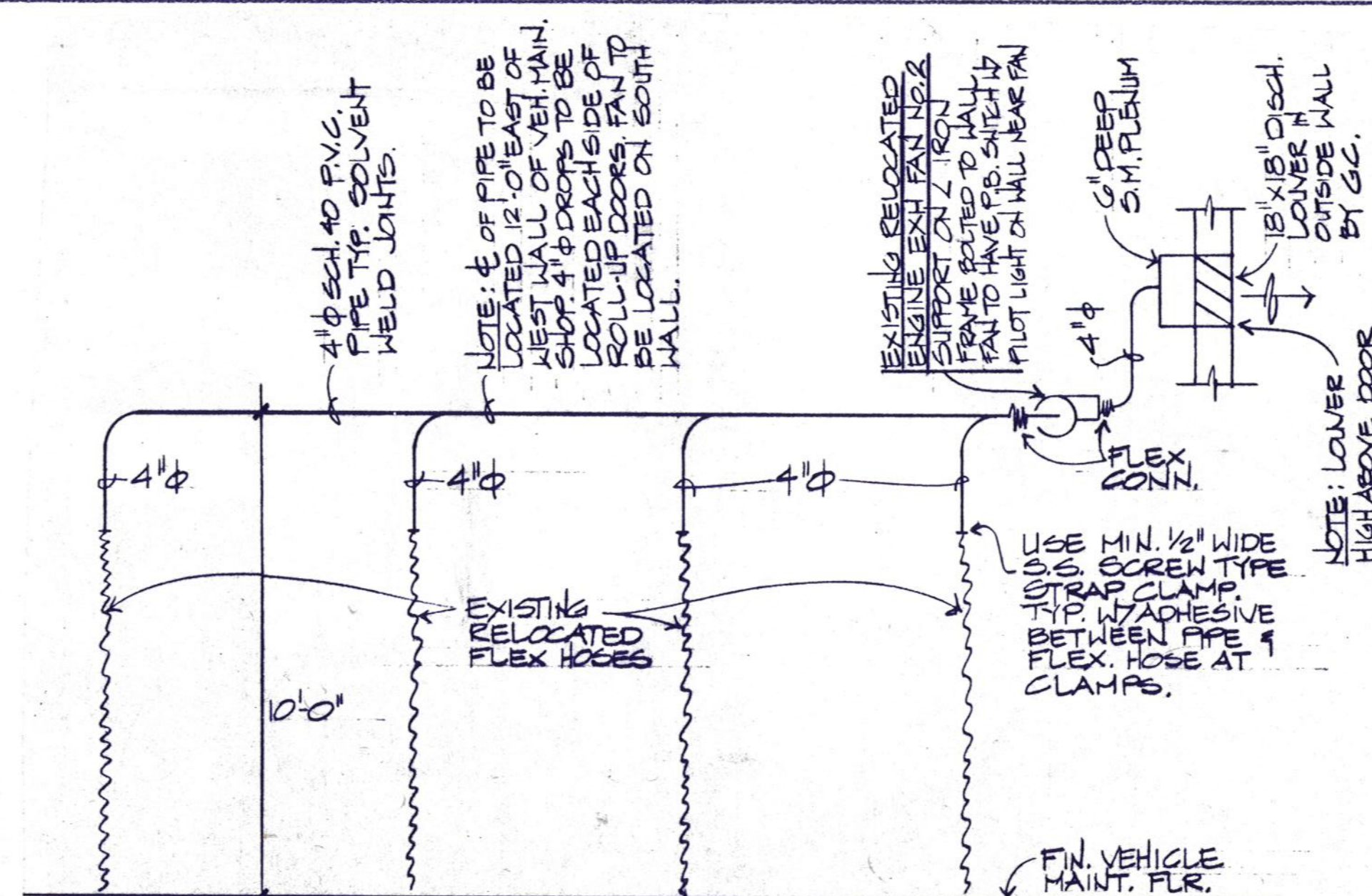
11 WATER COIL PIPING
(3-WAY CONTROL)



12 CONDENSATE PUMP UNIT
PIPING DIAGRAM



WELDING SHOP WELDING EXHAUST SYSTEM DETAIL
NOT TO SCALE



VEHICLE MAINTENANCE ENGINE EXH. SYSTEM DETAIL
NOT TO SCALE



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Wichita Falls, Texas

DDSSMM

DRAWN JCC
CHECKED DWG
DATE JULY 11, 1989
JOB NUMBER 8907
SHEET

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FBI PROJECT NO. 89044.00

M-5
OF 6M VOLUME II

AIR HANDLING UNIT SCHEDULE																			
UNIT No	CFM	TOTAL UNIT S.P	COOLING				HEATING				GPM 42°F WTR	GPM 200°F WTR	MAX. OUTLET VEL. F.P.M	MAX COOLING COIL FACE VEL. F.P.M	FAN MOTOR H.P.	VOLTS PHASE CYCLE	MANUFACTURER TYPE & No		
			ENT.	LYG.	ENT	LYG	ENT	LYG											
			DB	WB	DB	WB	DB	WB	DB	WB									
1	4,500	2"	77.5	64.5	54	52	67.5	—	28	28	1323	500	3	208/3φ/60	TRANE No 10 HORIZONTAL DRAW THRU W/ FLAT FILTER BOX	COMBINATION HTG. & COOLING COIL			
2	1,000	2"	77.5	64.5	54	52	67.5	—	6.25	6.25	970	500	3/4	208/3φ/60	TRANE No 3 HORIZONTAL DRAW THRU W/ FLAT FILTER BOX	COMBINATION HTG. & COOLING COIL			
3	1,400	2"	77.5	64.5	54	52	67.5	—	8.75	8.75	1365	500	1	208/3φ/60	TRANE No 3 HORIZONTAL DRAW THRU W/ FLAT FILTER BOX	COMBINATION HTG. & COOLING COIL			

NOTES:

1. ALL UNITS TO HAVE ADJUSTABLE MOTOR SHEAVES SELECTE IN MID RANGE OF SHEAVE.
2. ALL CHILLED WATER QUANTITIES BASED ON 12°F T.D.
3. FILTER FRAMES TO BE FOR RENEWABLE MEDIA TYPE FILTER MATERIAL.
4. ALL MOTORS TO BE COPPER WOUND & U.S. MADE, BEARINGS U.S. MADE.
5. ALL BEARINGS ON FAN & MOTOR TO BE U.S. MADE.
6. ALL FAN MOTORS & DRIVE TO BE EXTERNAL TO UNIT.
7. MAXIMUM CHILLED WATER COIL P.D. IN FT. = 10 FT.

ROOM FAN AND COIL UNIT SCHEDULE															
No.	CFM MEDIUM SPEED	VOLTS PHASE CYCLE	H.P. WATTS	R.P.M.	EXT. S.P. IN IN.	COOLING DATA					HEATING DATA				MANUFACTURER
						GPM 42°F H ₂ O	SENS. CAP BTU/HR	TOT. CAP BTU/HR	O.A. CONN. SIZE	ENT. AIR DB °F	LYG. AIR WB °F	TEMP. RISE °F	GPM 200°F H ₂ O	TOTAL HEAT MBH	TYPE & No
①	135	120/1φ/60	50	—	.05	1.05	—	—	4"φ	78	65	20	1.05	—	OWNER FURNISHED
②	185	120/1φ/60	50	—	.05	1.51	—	—	4"φ	78	65	20	1.51	—	OWNER FURNISHED
③	282	120/1φ/60	95	—	.05	2.20	—	—	4"φ	78	65	20	2.20	—	OWNER FURNISHED
④	471	120/1φ/60	190	—	.05	3.42	—	—	5"φ	78	65	20	3.42	—	OWNER FURNISHED

NOTES:

1. ALL UNITS TO BE EXPOSED OR CONCEALED (FURRED IN TYPE) W/ BACK O.A. CONNECTION, COMBINATION CHILLED-HEATED WATER COIL, FILTER, RA. & SUPPLY GR. AS REQ'D.
2. ROOM F & C UNITS #1A, 2A, 3A & 4A CAPACITIES ARE THE SAME AS SCHEDULED ABOVE FOR ROOM F & C UNITS No 1, 2, 3 & 4. UNITS No 1A, 2A, 3A & 4A ARE OWNER FURNISHED & ARE TO BE IN FURRING & TO HAVE SUPPLY & RETURN DUCT EXTENSIONS TO NEW SUPPLY & RETURN GRILLES, SEE FLOOR PLANS FOR GR. SIZES.
3. CONTRACTOR TO CUT O.A. CONNECTION INTO BACK OF ALL OWNER FURNISHED ROOM F & C UNITS. CONTR. TO INSTALL 1" FLG. CONN. ON EACH FOR CONN. OF O.A. DUCT TO UNITS.
4. PIPING RUN-OUT SIZE TO UNIT ① & ② TO BE MIN. 1/2", ③ & ④ TO BE 3/4" PIPE SIZE.

PUMP SCHEDULE								
No.	CAPACITY GPM	H D FT. H ₂ O	MIN. HP	HEAD RISE TO SHUT-OFF	RPM	% EFF	VOLTS PHASE CYCLE	MANUFACTURER TYPE & No.
1	110	60	5	10	1750	63	208/3φ/60	PACIFIC MODEL No 2 X 2 1/2 TYPE L

NOTES:

1. ALL PUMP MOTORS TO BE COPPER WOUND U.S. MADE, BEARINGS U.S. MADE.
2. PUMP TO BE END SUCTION TYPE, FRAME MOUNTED W/ FLEX. COUPLING.

HOT WATER UNIT HEATER SCHEDULE											
UNIT No.	CFM	BTU OUTPUT	GPM	WATER PD FT	ENT. AIR TEMP	FAN H.P.	RPM	VOLTS PHASE CYCLE	ENT WTR TEMP °F	WTR TEMP DROP °F	MANUFACTURER TYPE & No.
1	—	18,100	1.37		60°F	1/25	—	120/1φ/60	200	20	OWNER FURNISHED
2	—	18,100	1.37		60°F	1/25	—	120/1φ/60	200	20	OWNER FURNISHED

CONVERTOR SCHEDULE					
No.	GAL. PER MIN.	ENT. WTR TEMP. °F	LYG. WTR TEMP. °F	STM. PRESS. IN PSI.	MANUFACTURER TYPE & No.
1	110	170	200°F	25	OWNER FURNISHED

EXHAUST FAN SCHEDULE								
FAN No.	C.F.M.	S.P.	MAX. O.V. F.P.M.	R.P.M.	MIN MTR HP	VOLTS PHASE CYCLE	MANUFACTURER TYPE & No.	REMARKS
1 ①	350	1/2"	1100	960	1/3	120/1φ/60	BRUNDAGE BLOWER MODEL 808A	CABINET FAN
2 ②	—	—	—	—	1/2	120/1φ/60	OWNER FURNISHED FAN	EXIST. RELOCATED. (SEE ALTS.)
3 ③	635	1"	—	1725	1/2	120/1φ/60	BUFFALO BABY VENT SET FAN SIZE E	CAST IRON, DIRECT DRIVE. (SEE ALTS.)

NOTES:

1. ALL EXHAUST FAN MOTORS TO BE COPPER WOUND U.S. MADE, BEARINGS U.S. MADE.
 2. E.F. No.1 TO HAVE ADJ. SHEAVE ON MOTOR, SELECTED IN MID RANGE.
- ① GENERAL NEW TLT. EXH. FAN.
② EXIST. RELOCATED MTR. ENGINE EXH. FAN.
③ NEW METAL SHOP WELDING EXH. FAN.

CONDENSATE RETURN UNIT SCHEDULE									
UNIT No.	FT ² EDR	DISCH. PRESS. PSIG	RECEIVER CAP - GAL.	G.P.M. PER PUMP	No. OF PUMPS	MIN. H.P.	VOLTS PHASE CYCLE	RPM	MANUFACTURER TYPE & No
1	—	—	—	—	1	1/3	208/3φ/60	—	OWNER FURNISHED

VENTILATION AND MAKE-UP-O.A. FAN SCHEDULE							
No.	CFM	S P IN. IN.	VOLTS PHASE CYCLE	H.P.	OUTLET VEL.	MANUFACTURER TYPE & No.	REMARKS
VF-1	5,200	3/4"	208/3φ/60	1 1/2	1775	BRUNDAGE BLOWER # 818 BB	COMPLETE W/ DUCT FILTER (SEE ALTS)
VF-2	5,200	3/4"	208/3φ/60	1 1/2	1775	" " "	" " " (SEE ALTS)
VF-3	5,200	3/4"	208/3φ/60	1 1/2	1775	" " "	" " " (SEE ALTS)
VF-4	5,200	3/4"	208/3φ/60	1 1/2	1775	" " "	" " " (SEE ALTS)
VF-5	600	1/2"	120/1φ/60	1/2	1200	" " # 808A	" " " (FOR ELEC. ROOM VENTILATION)
M.U. O.A.-1	1400	1 1/2"	208/3φ/60	3/4	1440	TRANE CABINET FAN #3	COMPLETE W/ FLAT FILTER SECTION (SEE ALTS)

NOTES:

1. ALL MOTORS TO BE U.S. MADE, COPPER WOUND, W/ U.S. MADE BEARINGS.
2. ALL VENT & MAKE-UP AIR UNITS FANS TO HAVE ADJ. SHEAVES ON DRIVE ASSY. SELECTED IN MID RANGE.



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Midwestern State University
Wichita Falls, Texas

MSDU

DRAWN G.F.
CHECKED DWG
DATE JULY 11, 1989
JOB NUMBER 8907

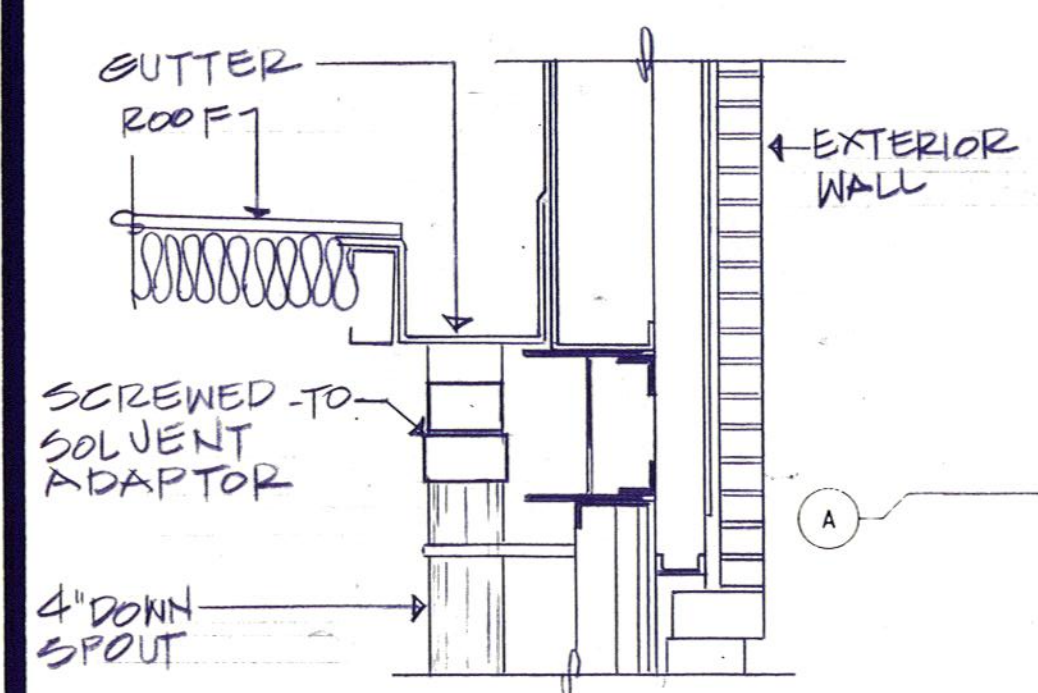
SHEET

M-6

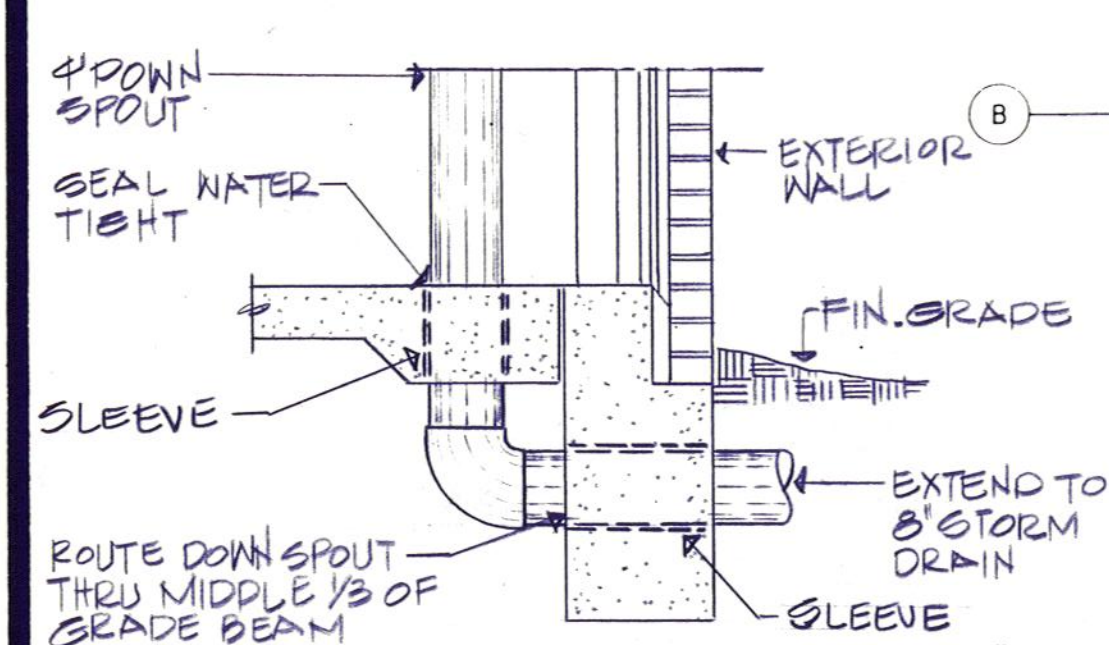
OF 6M VOLUME II

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FAI PROJECT NO. 21044-00

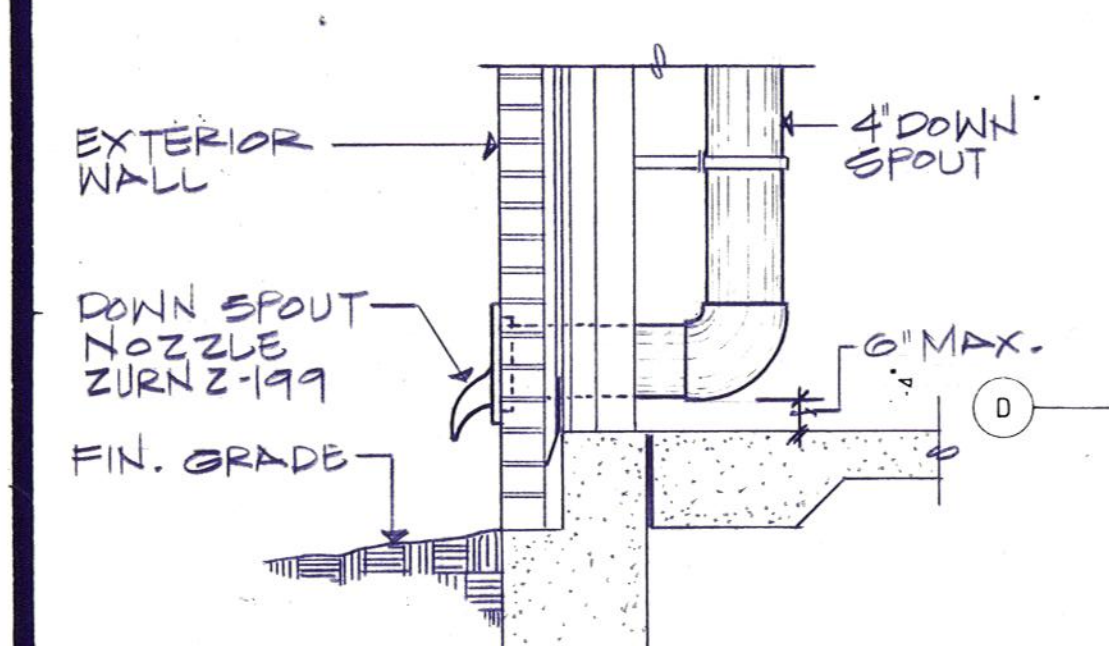
NOTE 8 SLOPE SANITARY SEWER @ MAX 1/8" PER FOOT



CONNECTION AT GUTTER



EAST WALL

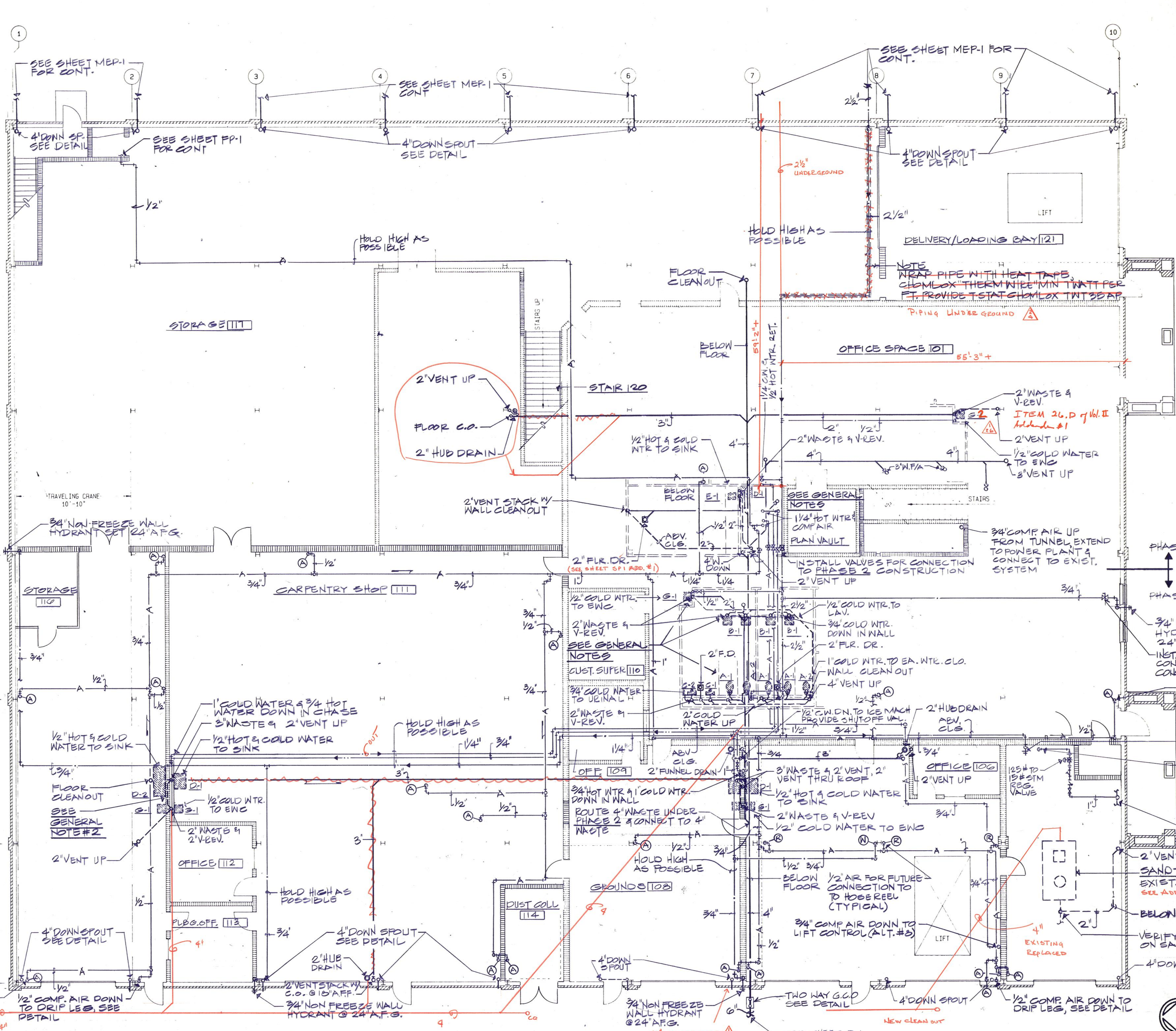


WEST WALL

DOWN SPOUT INSTALLATION
NOT TO SCALE

GENERAL NOTES:

1. CONTRACTOR SHALL ROUGH-IN & CAP SERVICES FOR EACH PLUMBING FIXTURES UNDER "BASE BID". ALL WASTE PIPE ABOVE CEILING & BELOW FLOOR SHALL BE INSTALLED, STUB UP WASTE PIPE 12" ABOVE FINISHED FLOOR & CAP. ALL WATER PIPE ABOVE CEILING SHALL BE INSTALLED VALVE & CAP EACH SERVICE.
2. ALL WASTE & WATER PIPE WORK IN WALLS & CHASES SHALL BE INSTALLED UNDER "ALTERNATE #4".
3. PLUMBING FIXTURES SHALL BE INSTALLED UNDER ALTERNATE #14.



FIRST FLOOR PLAN - PLUMBING

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



SEE A2
ATTACHED FOR AIR PIPE

PLOTTED: MAY 3, 1989

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FBI PROJECT NO. 8904-00



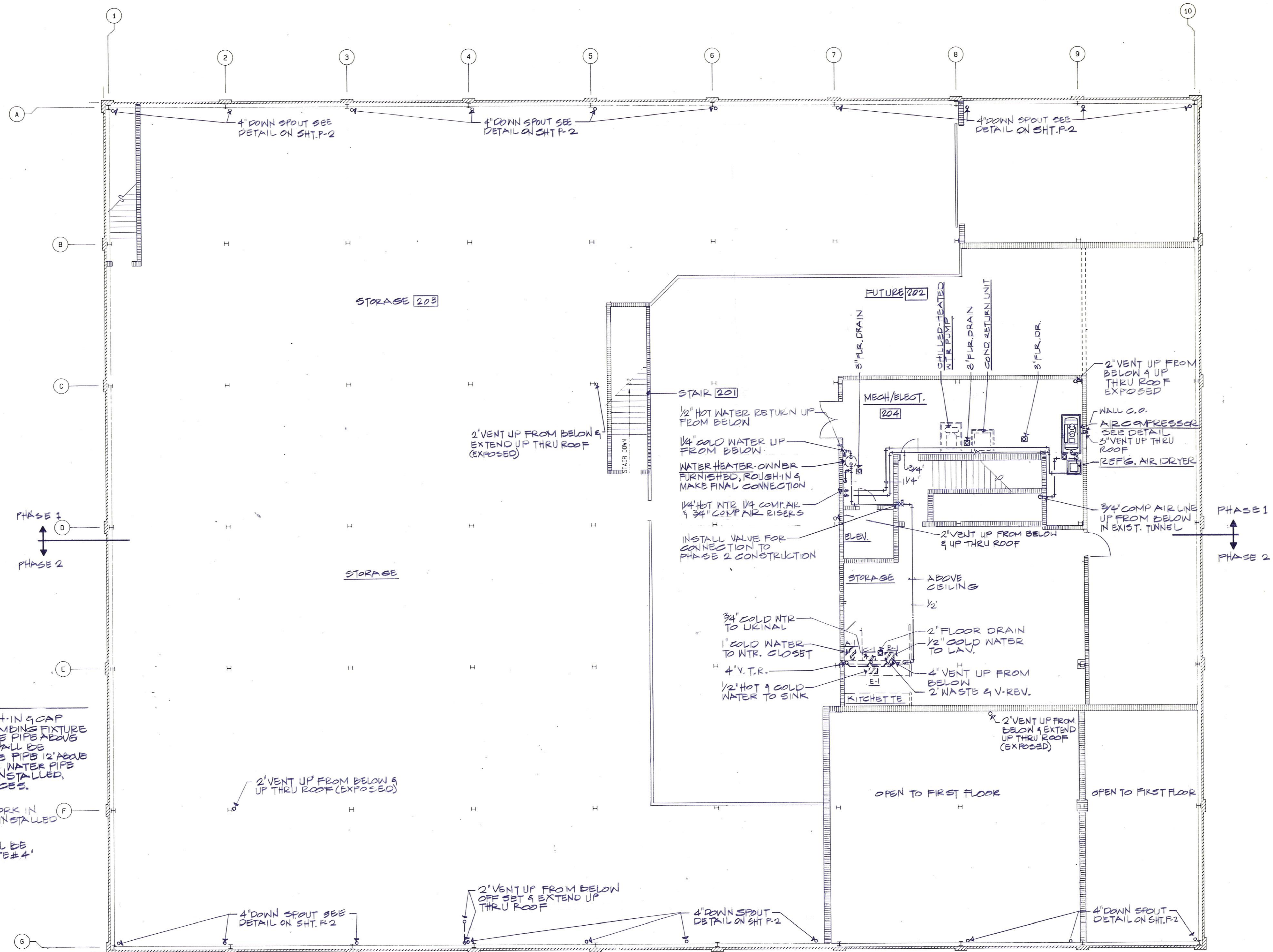
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DANIEL BUILDING
Midwestern State University
Wichita Falls, Texas

DDSS

DRAWN W.D.M.J.R.
CHECKED R.W.B.
DATE JULY 11, 1989
JOB NUMBER 8907
SHEET

P-2
OF 58 VOLUME II



GENERAL NOTES:

1. CONTRACTOR SHALL ROUGH-IN & CAP SERVICES FOR EACH PLUMBING FIXTURE UNDER "BASEDID". ALL WASTE PIPE ABOVE CEILING & BELOW FLOOR SHALL BE INSTALLED. STUB UP WASTE PIPE 12" ABOVE FINISHED FLOOR & CAP. ALL WATER PIPE ABOVE CEILING SHALL BE INSTALLED. VALVE & CAP EACH SERVICE.
2. ALL WASTE & WATER PIPE WORK IN WALLS & CHASSES SHALL BE INSTALLED UNDER "ALTERNATE #4"
3. PLUMBING FIXTURES SHALL BE INSTALLED UNDER "ALTERNATE #4"

SECOND FLOOR PLAN - PLUMBING

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

PLOTTED: MAY 3, 1989



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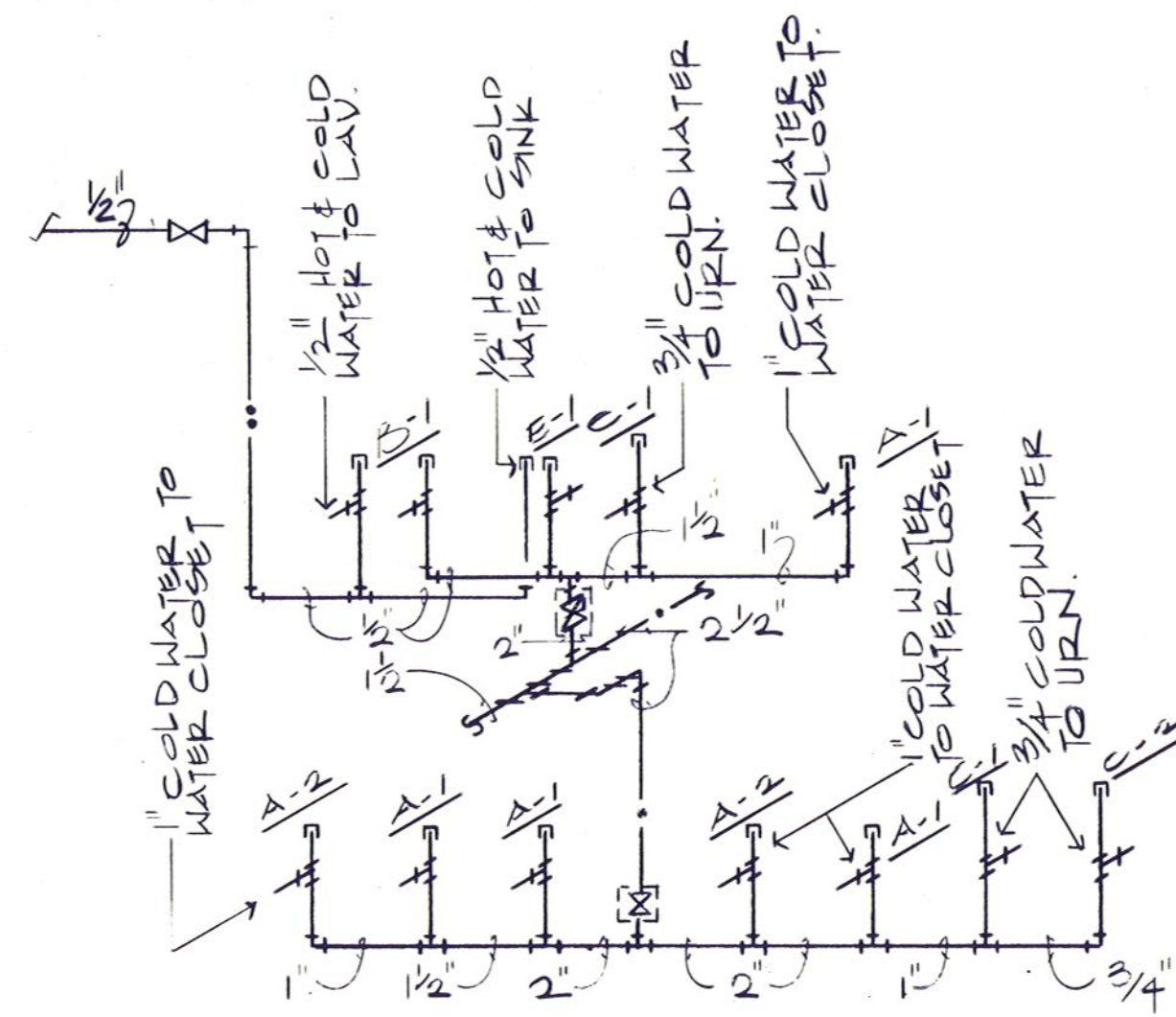
**DD
MS
MM**

DRAWN KDM, JR.
CHECKED DWS.
DATE JULY 11, 1989
JOB NUMBER 8901

SHEET

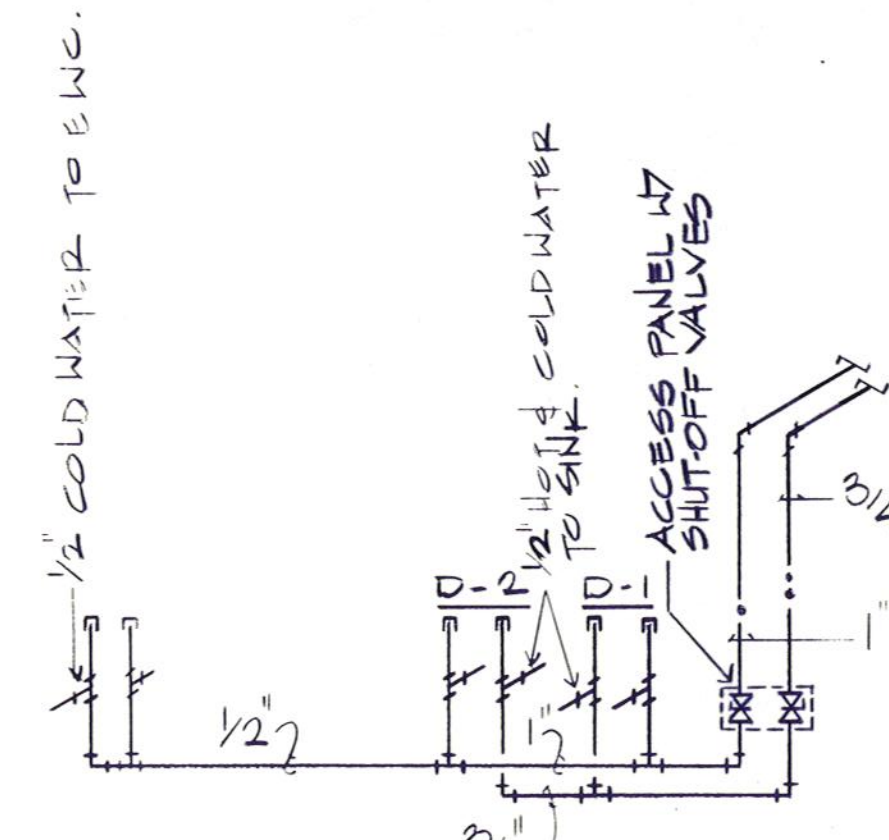
P-3

OF 5P VOLUME II

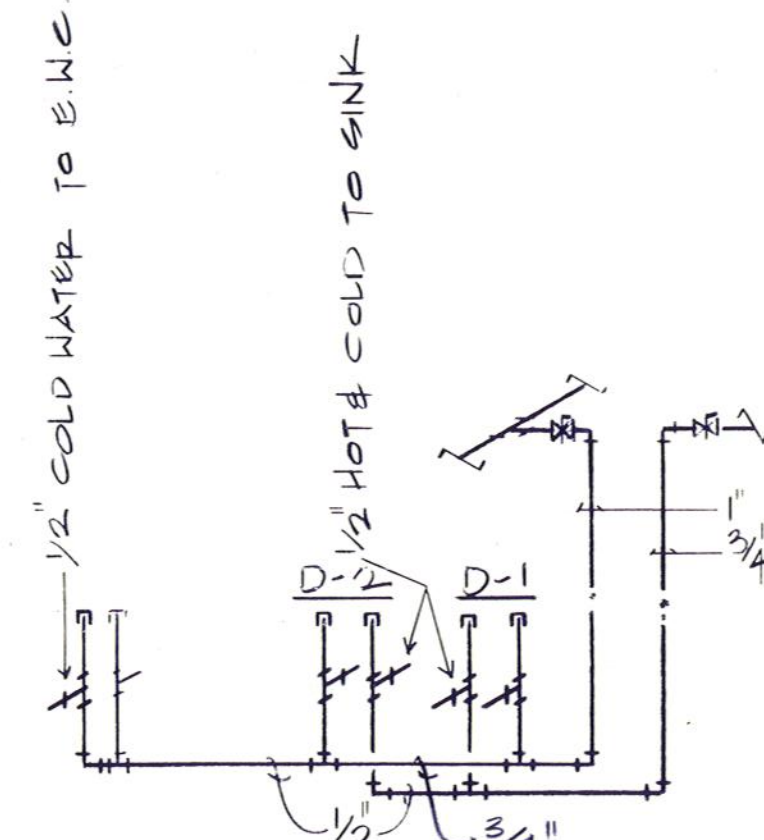


WOMEN'S TOILET 133

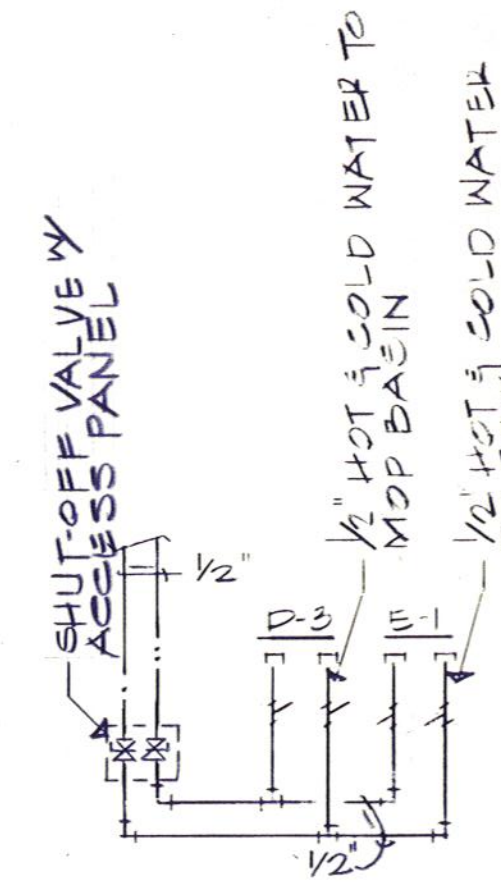
MEN'S TOILET 135



S.M./WELDING/PLBG.-CARR. SHOP 111
115

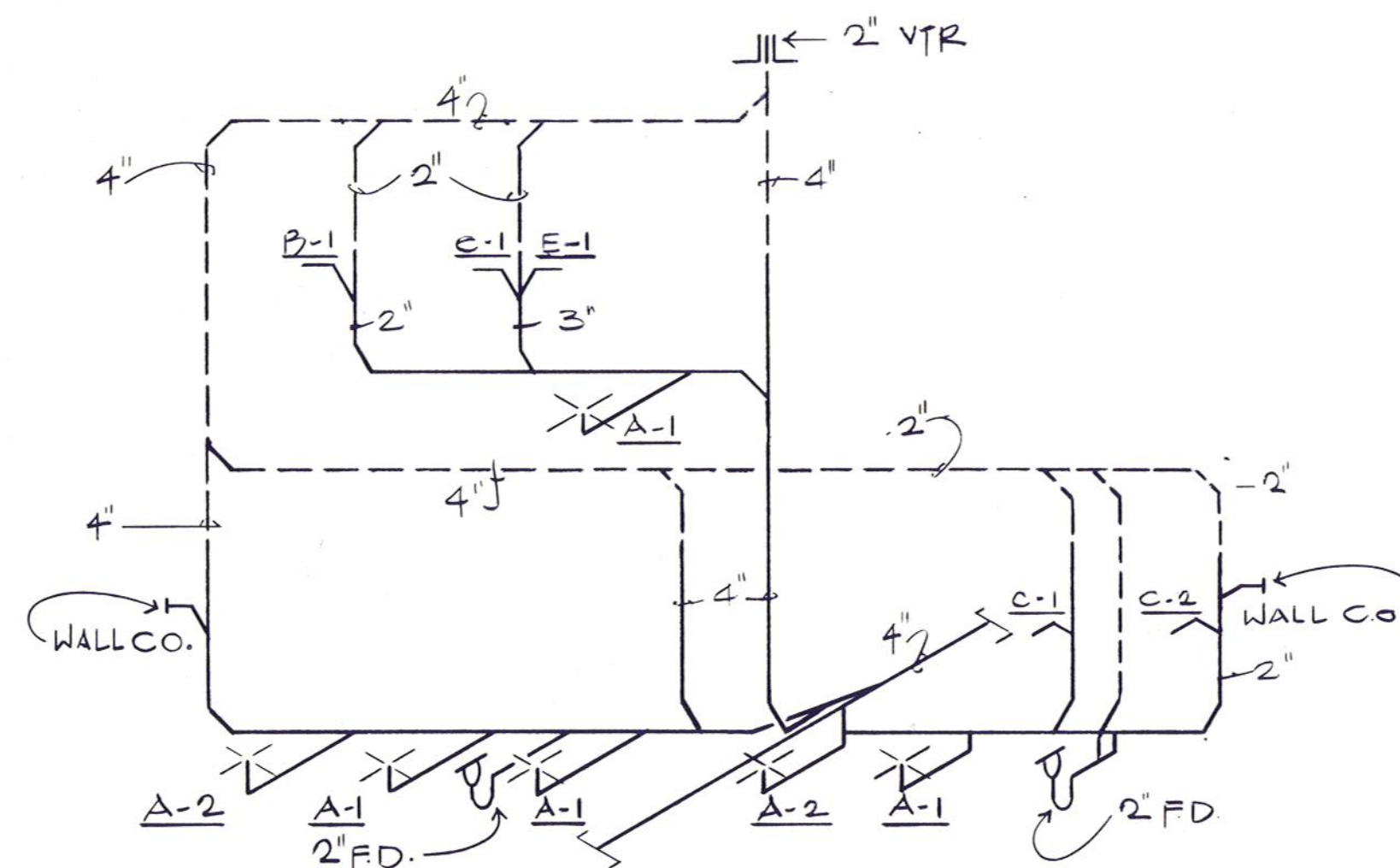


GROUND-VEHICLE MAIN 108
109



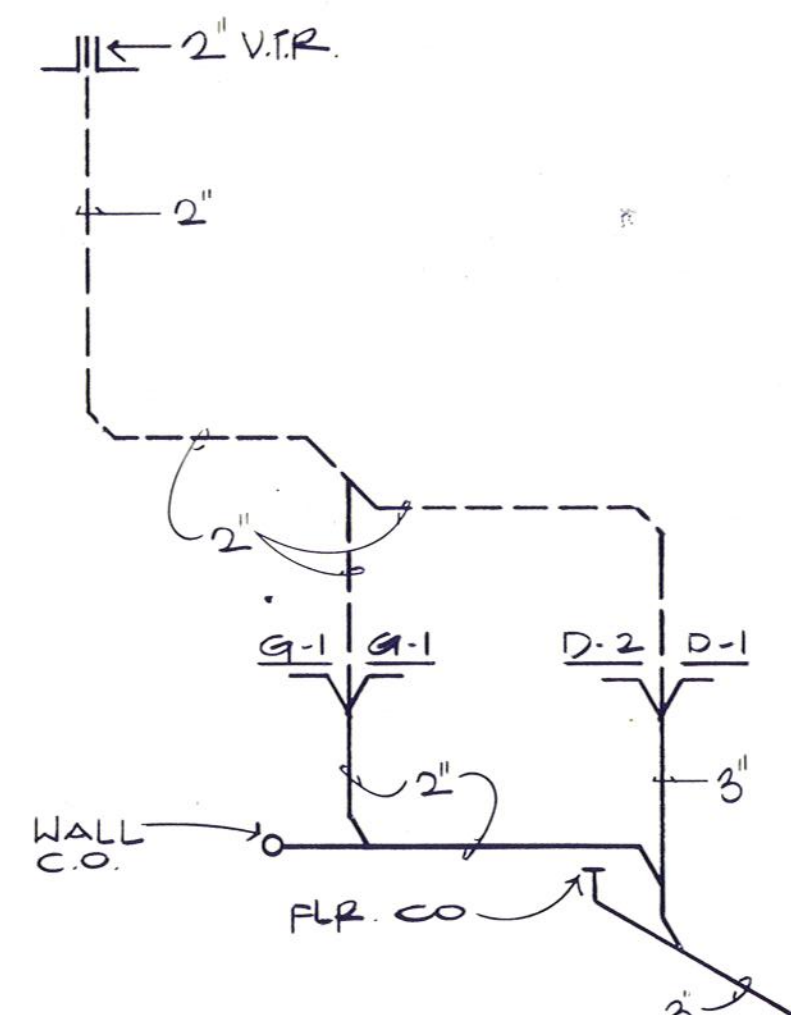
BREAK ROOM 138

WATER RISER DIAGRAMS
NOT TO SCALE

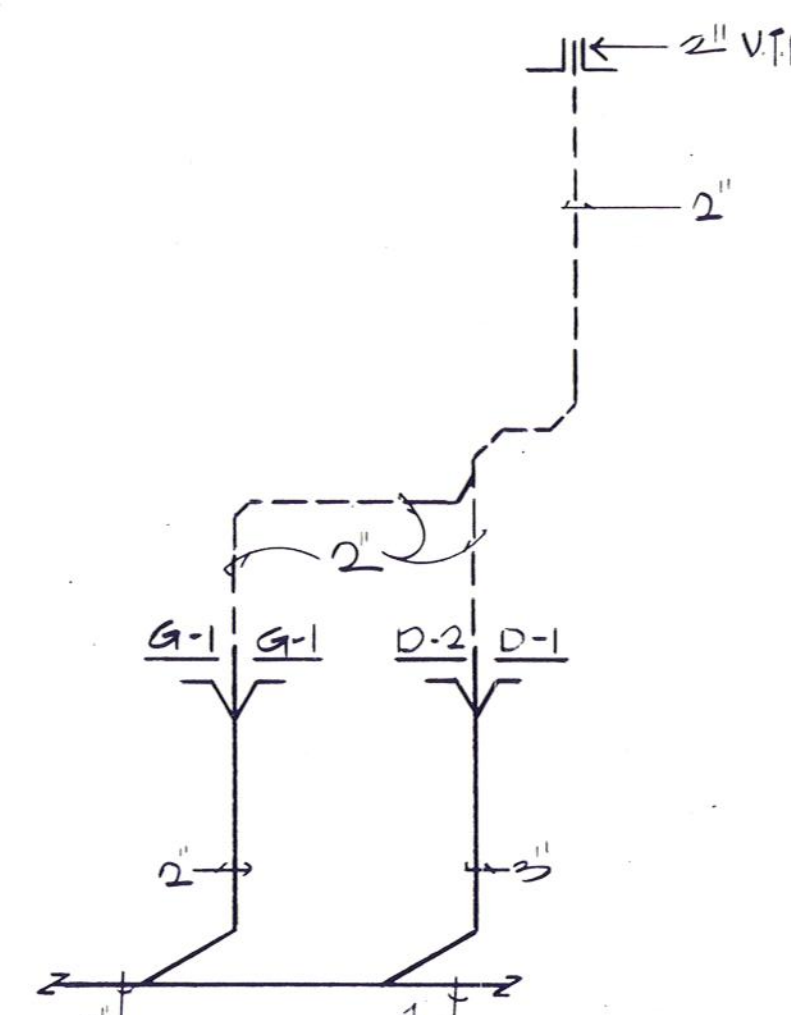


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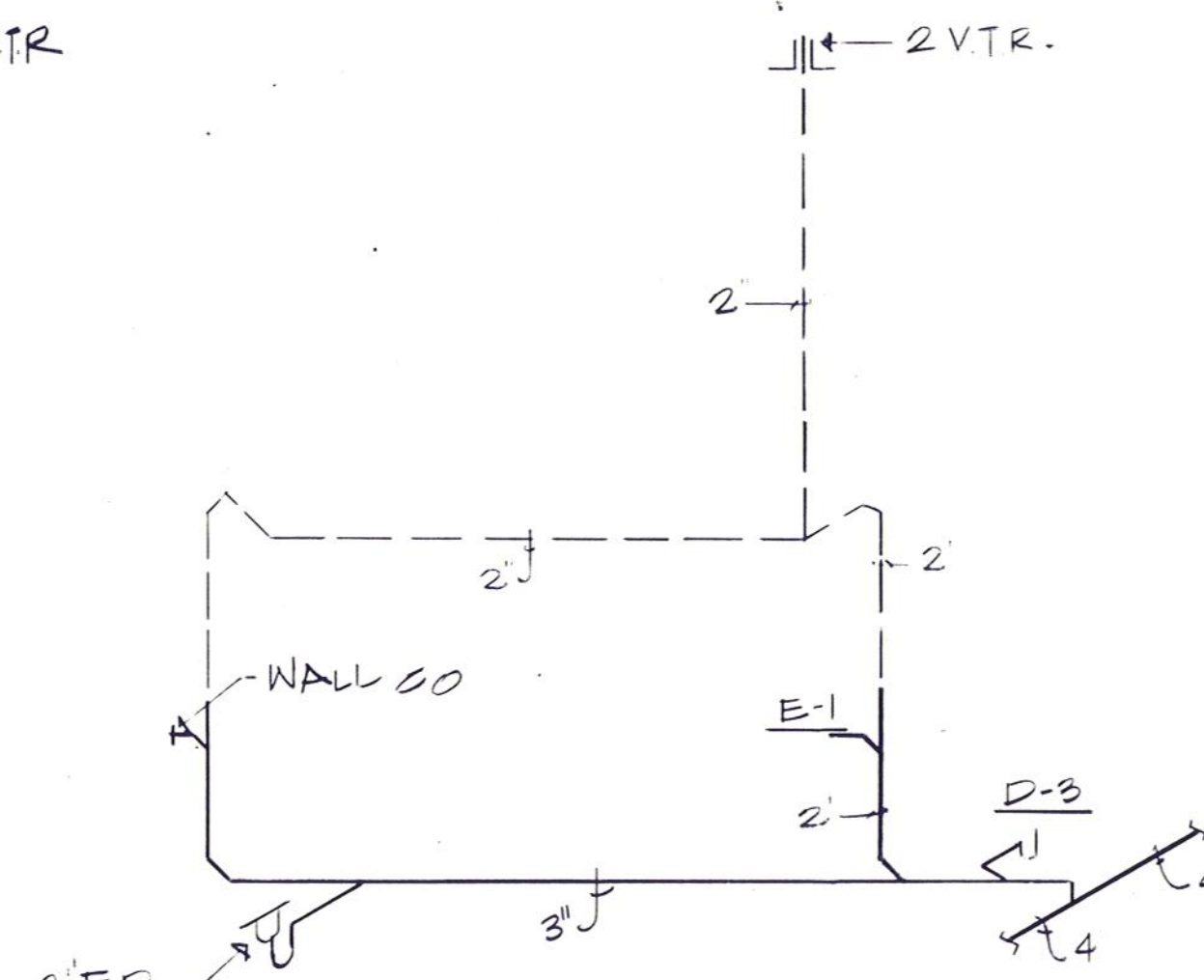
MEN'S TOILET 135



S.M./WELDING/PLBG.-CARR. SHOP 111
115

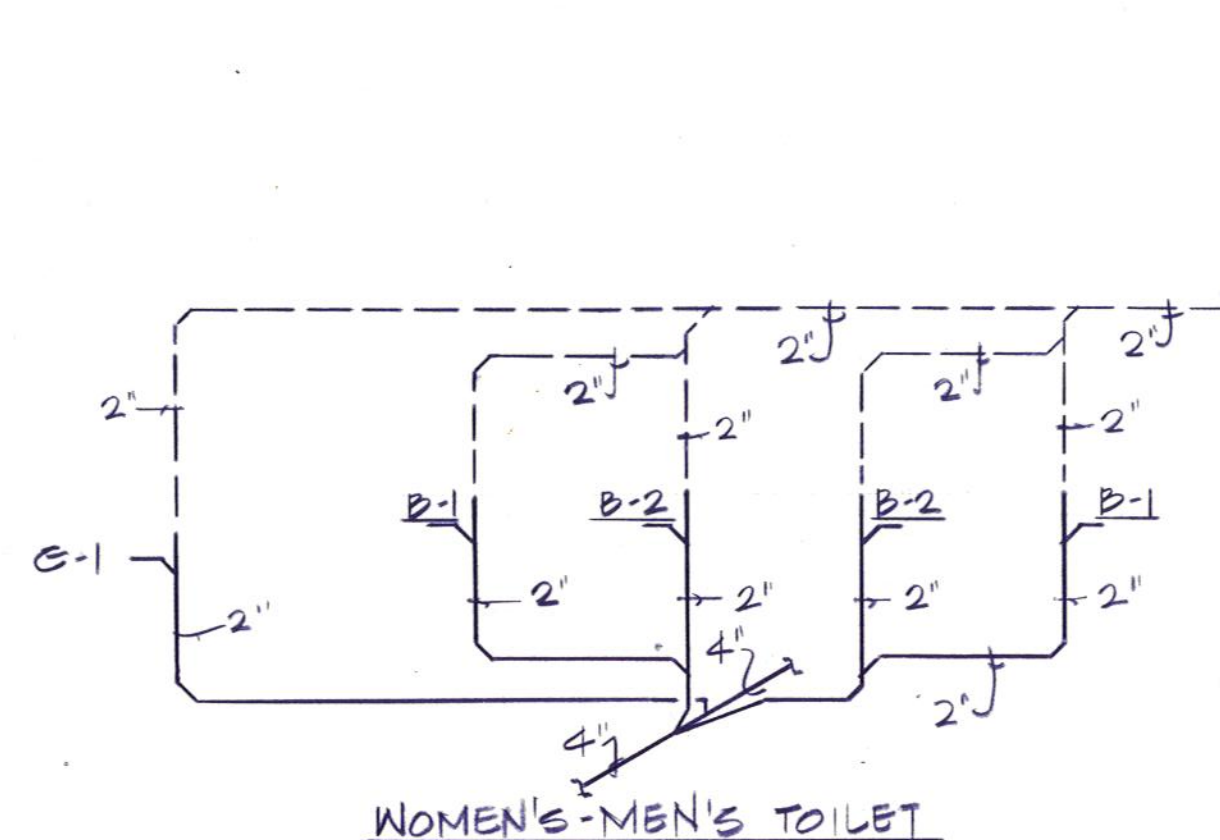


GROUND-VEHICLE MAIN 108
109

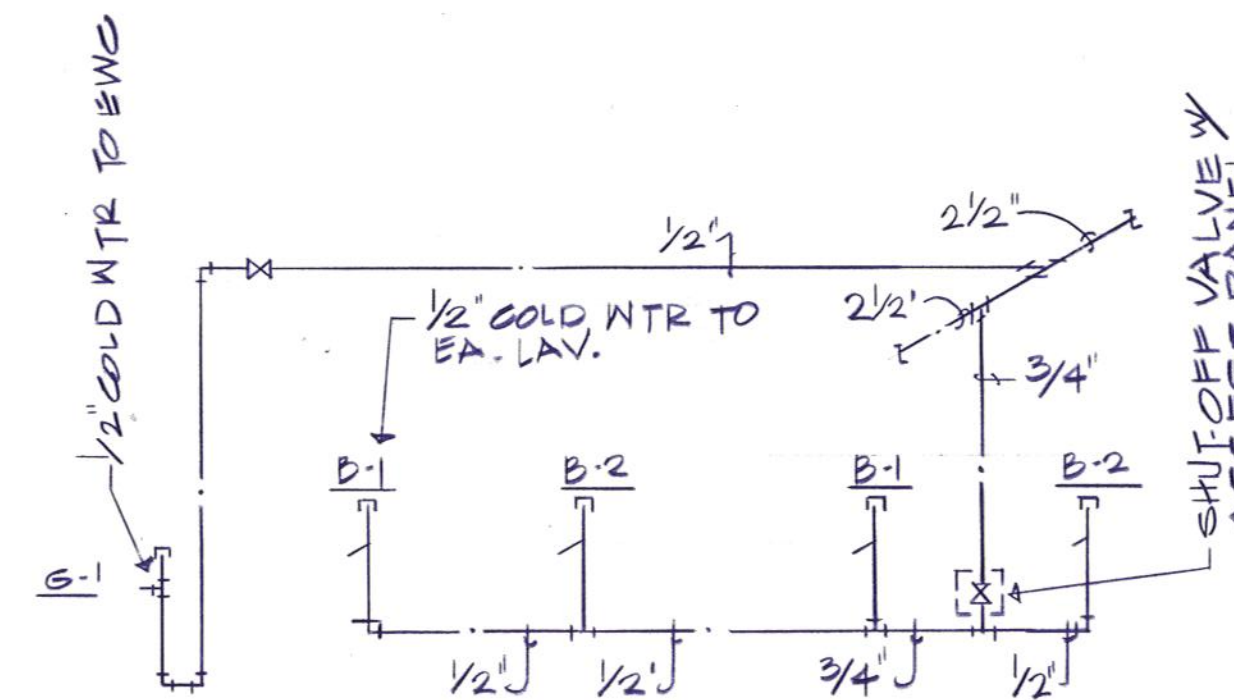


BREAK ROOM 138

WASTE RISER DIAGRAMS
NOT TO SCALE

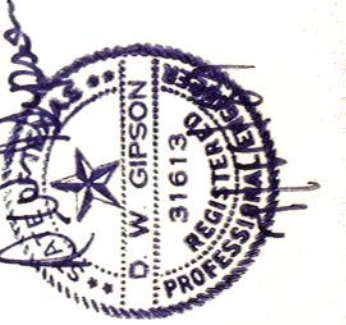


WOMEN'S-MEN'S TOILET



WOMEN'S-MEN'S TOILET

RISER DIAGRAMS
NOT TO SCALE



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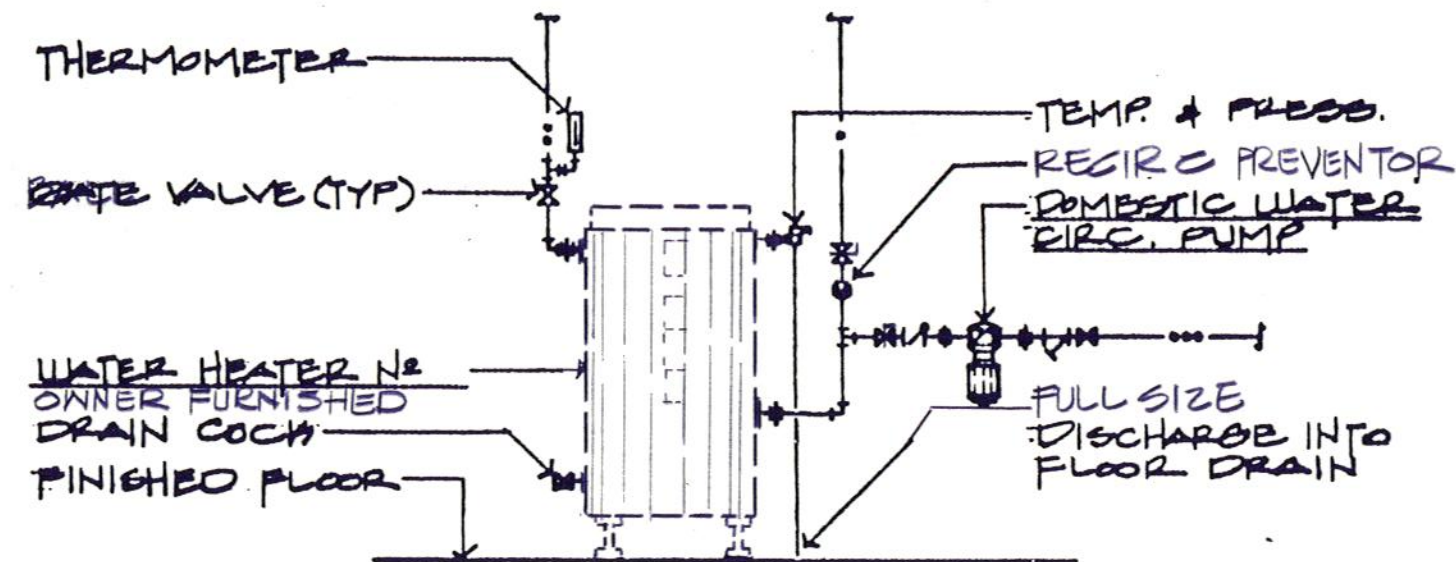
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Wichita Falls, Texas

UNIVERSITY OF MICHIGAN

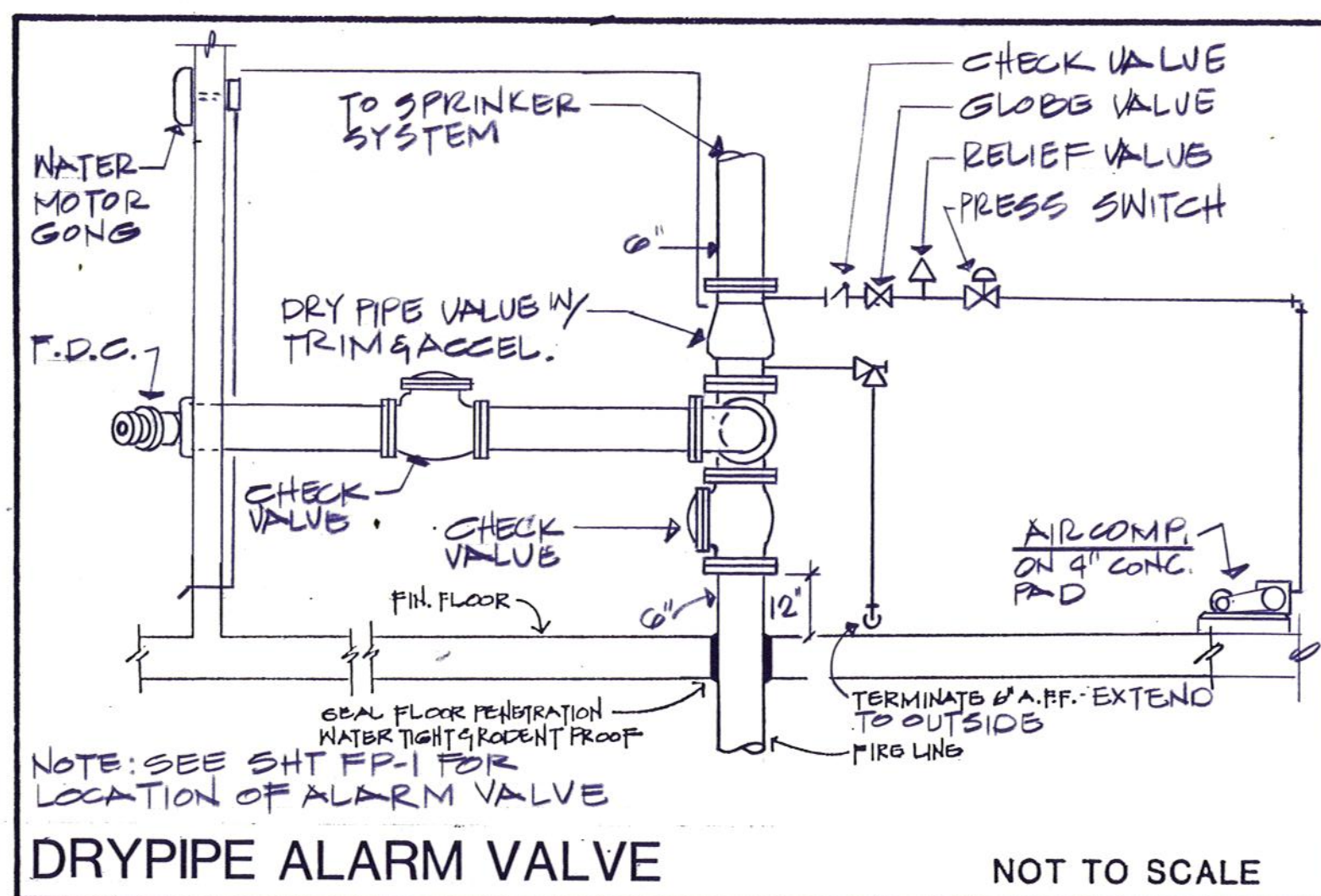
DRAWN W.D.M., JR.
CHECKED D.W.G.
DATE JULY 11, 1989
JOB NUMBER 8907

SHEET
P-4
OF 5P VOLUME II

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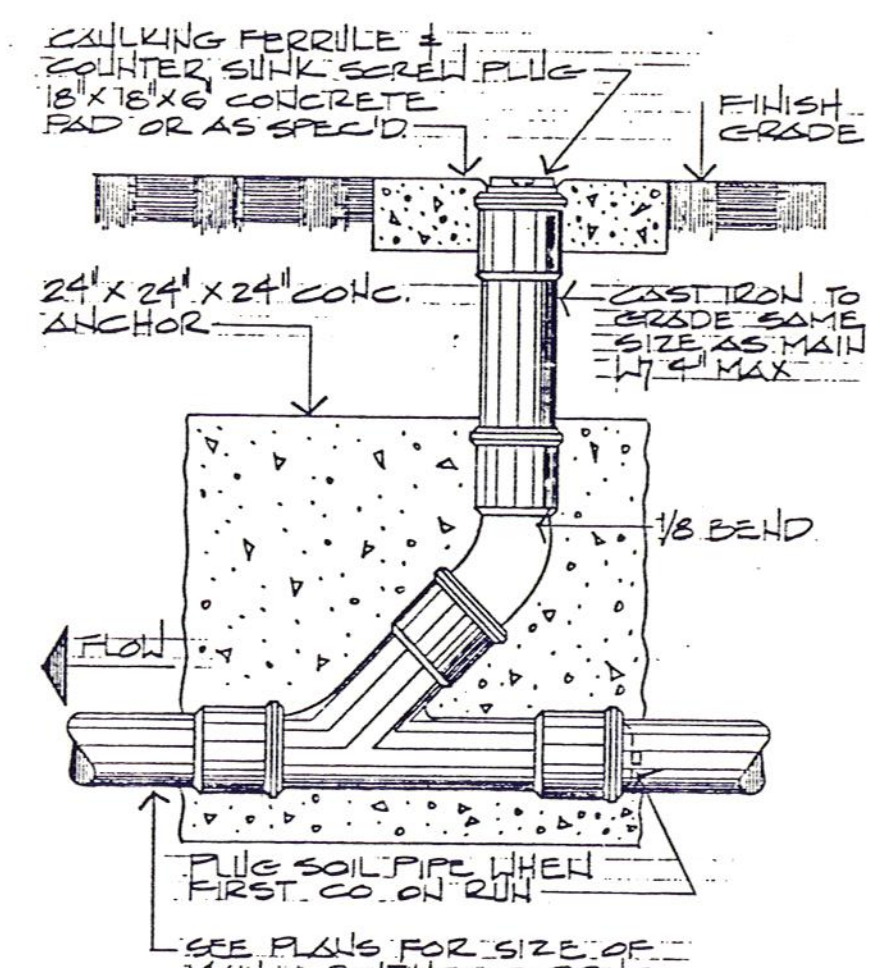
WATER HEATER PIPING DIAGRAM NOT TO SCALE



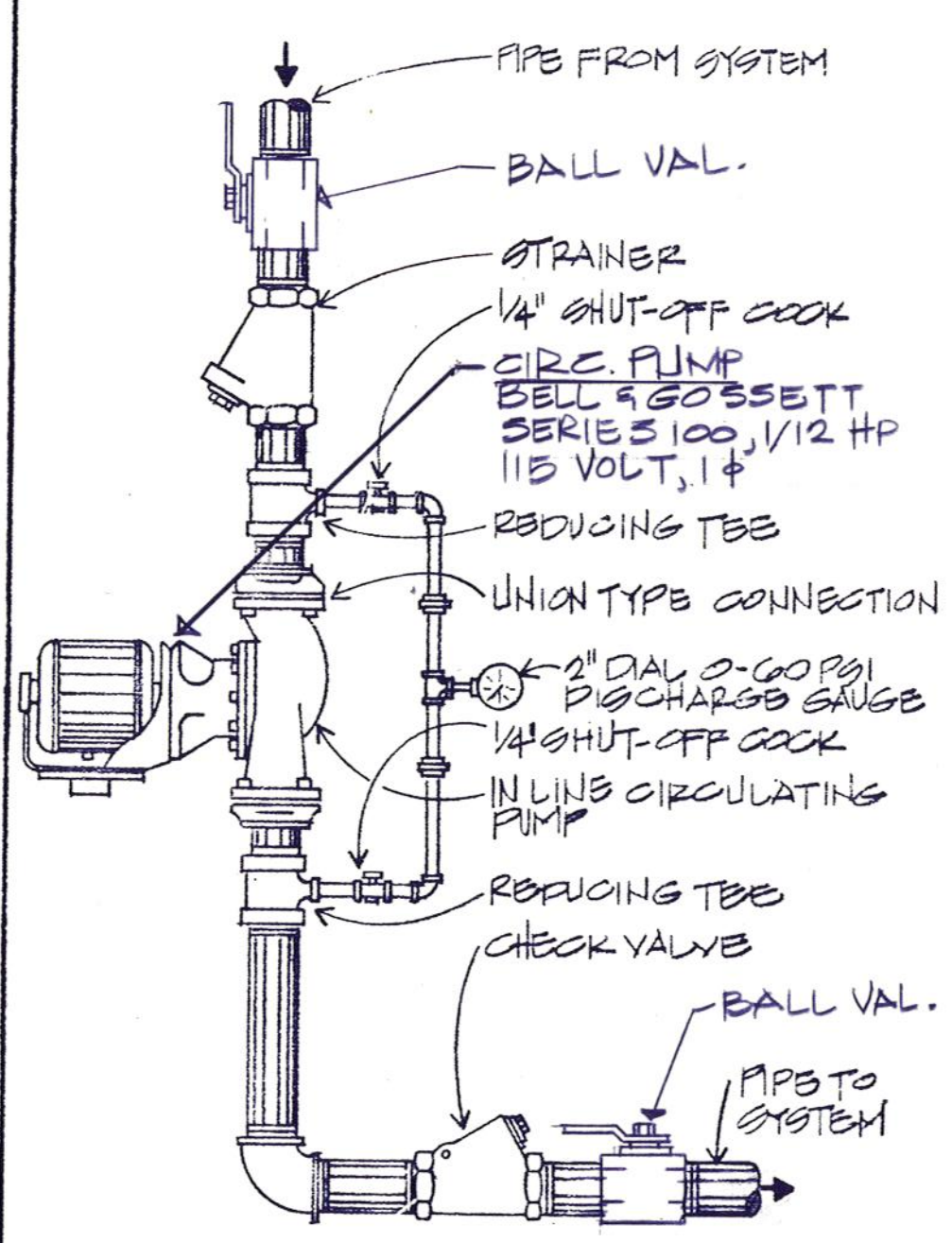
DRYPIPE ALARM VALVE NOT TO SCALE

PLUMBING FIXTURE SCHEDULE

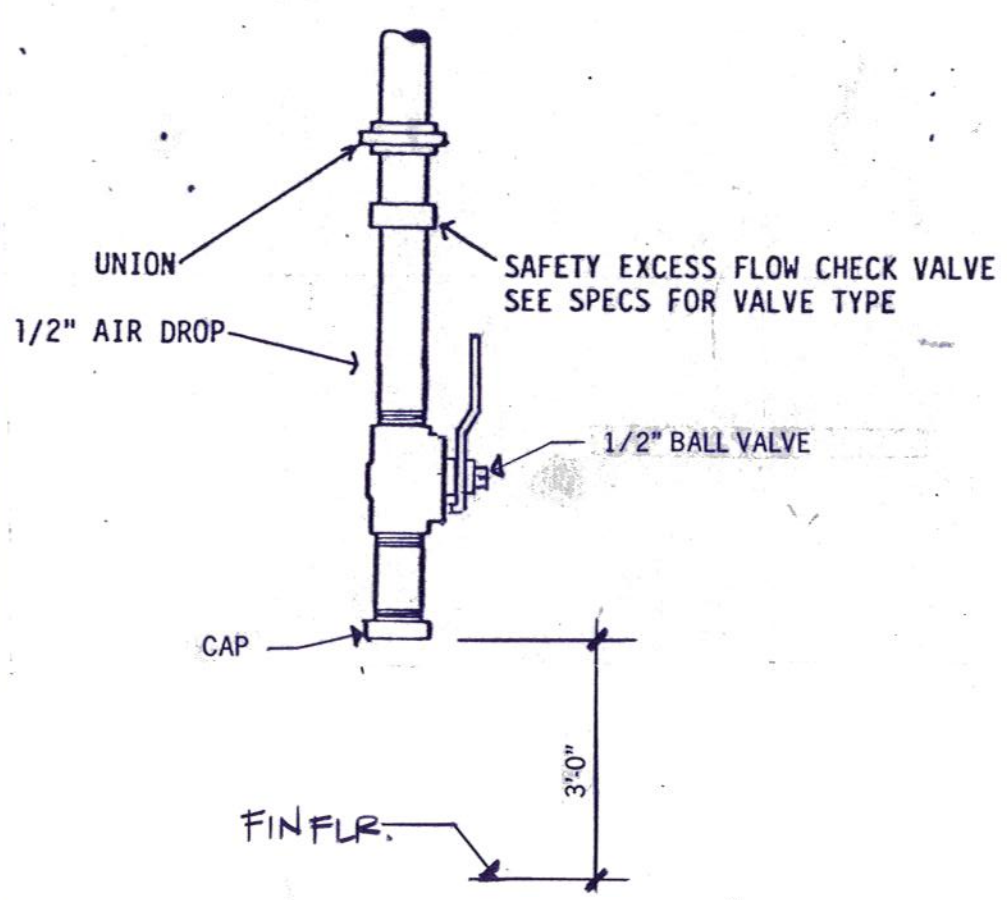
- TYPE A-1 - WATER CLOSET (FLOOR-REGULAR, FLUSH VALVE):**
- BOWL: OWNER FURNISHED.
 - FLUSH VALVE: QUIET EXPOSED CLOSET FLUSH VALVE, CHROME PLATED, METAL OSCILLATING NON-HOLD-OPEN HANDLE, 1" IPS SCREW DRIVER BAK-CHEK ANGLE STOP WITH PROTECTIVE CAP. VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 1-1/2" TOP SPUD; SLOAN "ROYAL" NO. 110-V3.
 - SEAT: SOLID PLASTIC, EXTENDED SEAT FOR ELONGATED BOWL, OPEN FRONT LESS SEAT COVER; KOHLER "LUSTRA" NO. K-4670-C (WHITE).
- TYPE A-2 - WATER CLOSET (FLOOR-MOUNTED, HANDICAPPED, FLUSH VALVE):**
- BOWL: VITREOUS CHINA, ELONGATED, SIPHON-JET ACTION, 1-1/2" TOP SPUD, BOLT CAPS, RIM 18" ABOVE FLOOR; KOHLER "HIGHCLIFF" NO. K-4268-ET.
 - FLUSH VALVE: QUIET EXPOSED CLOSET FLUSH VALVE, CHROME PLATED, METAL OSCILLATING NON-HOLD-OPEN HANDLE, 1" IPS SCREW DRIVER BAK-CHEK ANGLE STOP WITH PROTECTIVE CAP. VACUUM BREAKER FLUSH CONNECTION AND SPUD COUPLING FOR 1-1/2" TOP SPUD; SLOAN "ROYAL" NO. 110-V3.
 - SEAT: SOLID PLASTIC, EXTENDED SEAT FOR ELONGATED BOWL, OPEN FRONT LESS SEAT COVER; KOHLER "LUSTRA" NO. NO. K-4670-C (WHITE).
- TYPE B-1 - LAVATORY (WALL-HUNG, COLD WATER ONLY):**
- LAVATORY: OWNER FURNISHED.
 - FAUCET: COMPRESSION FAUCET, 4-ARM HANDLE, VALVE UNIT, COUPLING NUT LESS TAILPIECE; KOHLER "SENTINEL" NO. K-7510-C.
 - DRAIN: LAVATORY DRAIN WITH PERFORATED GRATE, 1-1/4" TAILPIECE; KOHLER NO. K-7715.
 - FAUCET HOLE COVER: CHROME PLATED FAUCET HOLE COVER; KOHLER NO. K-7732.
 - TRAP: 1-1/4" X 1-1/2" CAST BRASS ADJUSTABLE P-TRAP, CLEANOUT PLUG, TUBING TO WALL AND ESCUTCHEON; KOHLER NO. K-9000.
 - SUPPLY PIPES: 3/8" ANGLE WITH STOPS; KOHLER NO. K-7606.
- TYPE C-1 - URINAL (WALL-HUNG, REGULAR HEIGHT):**
- URINAL: OWNER FURNISHED.
 - FLUSH VALVE: HAND OPERATED, CHROME PLATED WITH VACUUM BREAKER, METAL OSCILLATING NON-HOLD-OPEN HANDLE, 3/4" SCREWDRIVER ANGLE STOP, AND COUPLING FOR 3/4" TOP SPUD, WALL AND SPUD ESCUTCHEONS; SLOAN "ROYAL" NO. 186-V3.
- TYPE C-2 - URINAL (WALL-HUNG, HANDICAPPED):**
- URINAL: OWNER FURNISHED.
 - FLUSH VALVE: HAND OPERATED, CHROME PLATED WITH VACUUM BREAKER, METAL OSCILLATING NON-HOLD-OPEN HANDLE, 3/4" SCREWDRIVER ANGLE STOP, AND COUPLING FOR 3/4" TOP SPUD, WALL AND SPUD ESCUTCHEONS; SLOAN "ROYAL" NO. 186-V3.
- TYPE D-1 - JANITORS SERVICE SINK:**
- SINK: OWNER FURNISHED.
 - FAUCET: OWNER FURNISHED.
 - TRAP: ADJUSTABLE TRAP, STANDARD FOR 3" PIPE CONNECTION WITH CLEANOUT PLUG AND STRAINER, ENAMELED INSIDE; KOHLER NO. K-6673.
- TYPE D-2 - LAUNDRY SINK:**
- SINK: OWNER FURNISHED.
 - FAUCET: OWNER FURNISHED.
 - TRAP: OWNER FURNISHED.



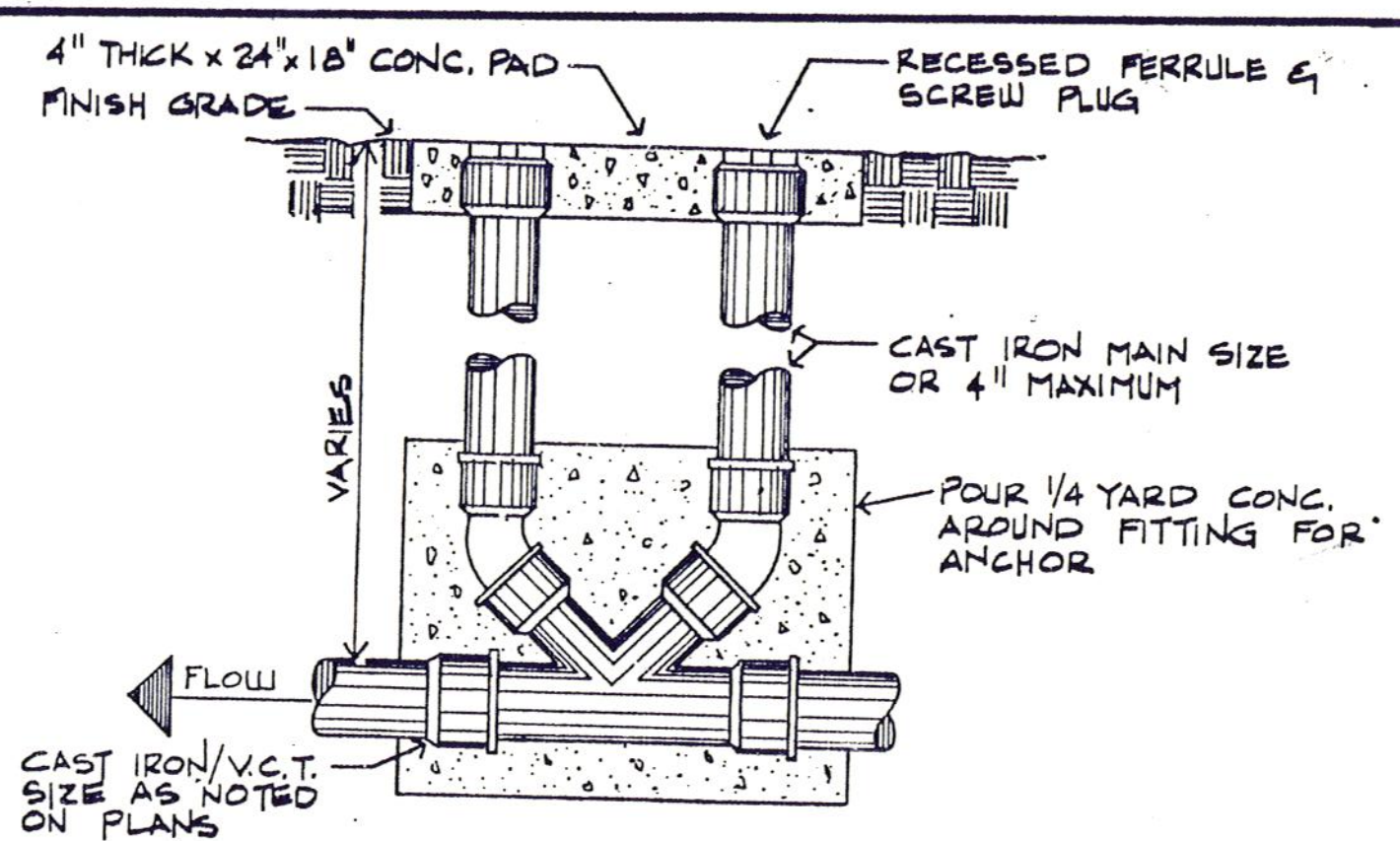
GRADE CLEANOUT NOT TO SCALE



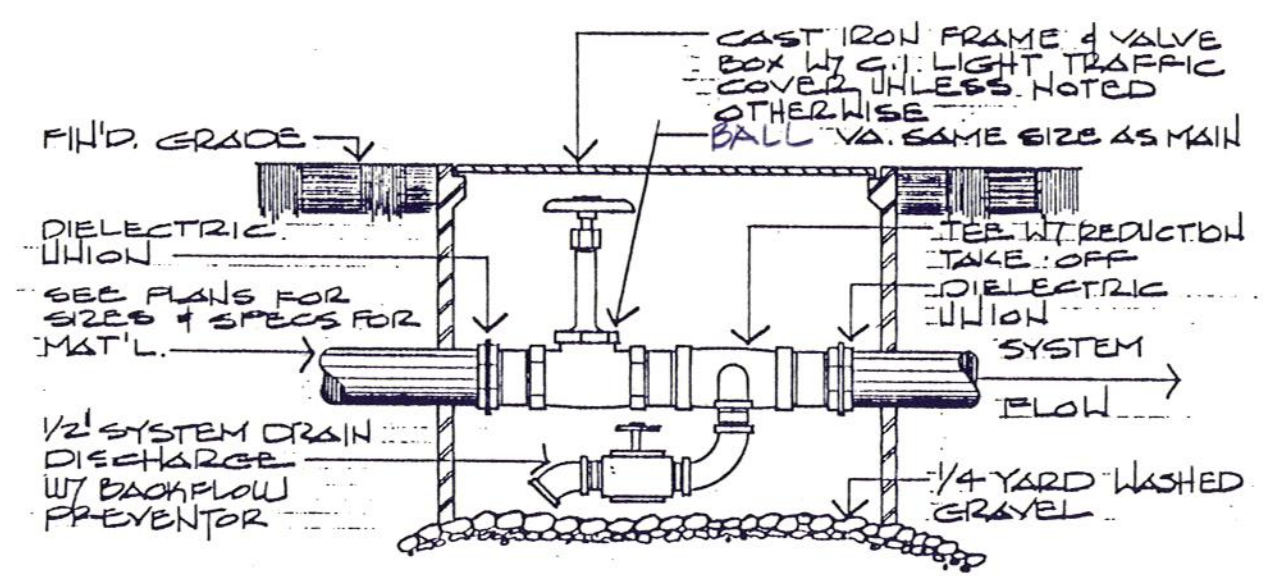
IN-LINE CIRCULATION PUMP N.T.S.



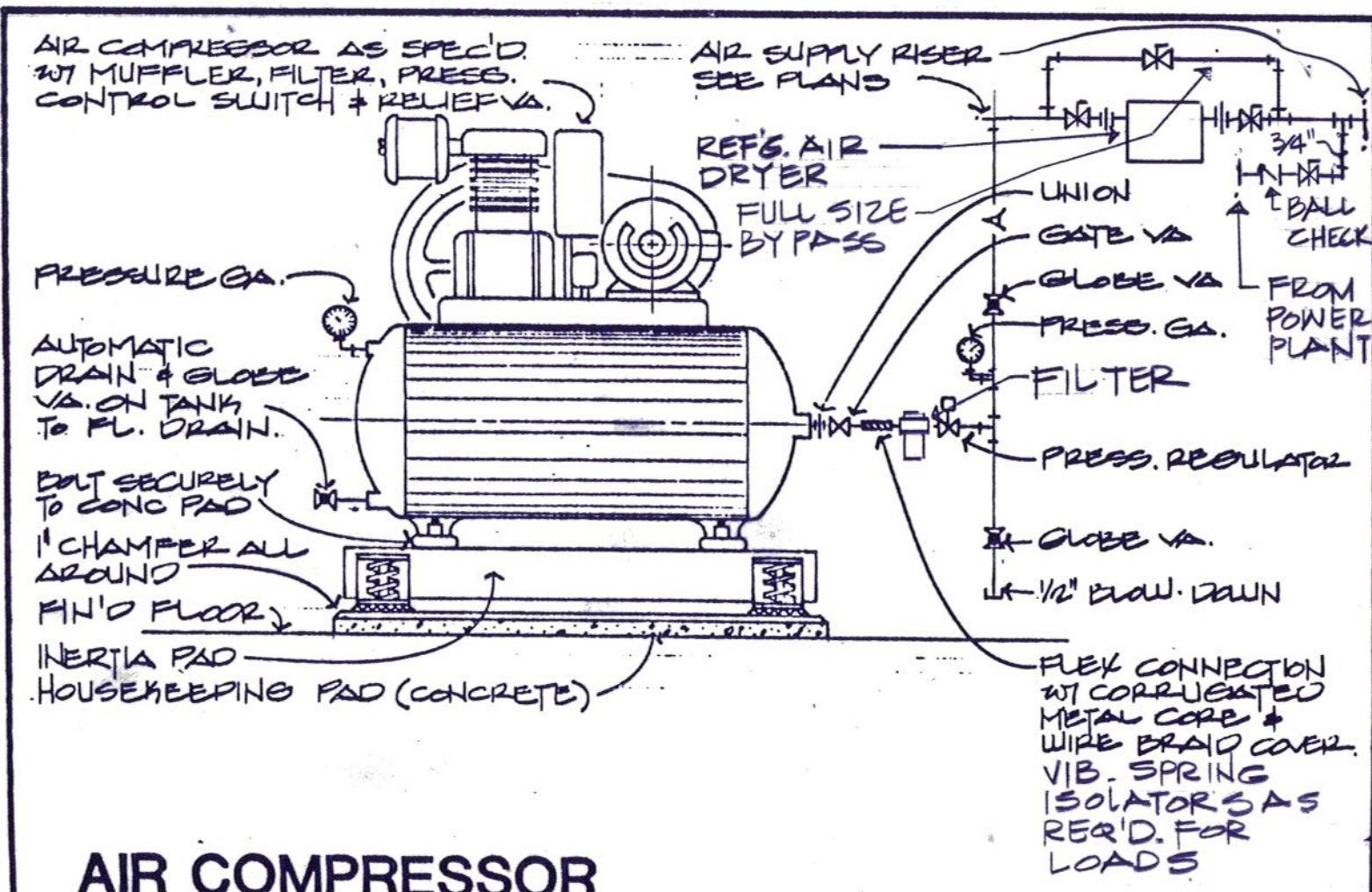
AIR DROP DETAIL



TWO-WAY GRADE CLEANOUT NOT TO SCALE



VALVE BOX NOT TO SCALE

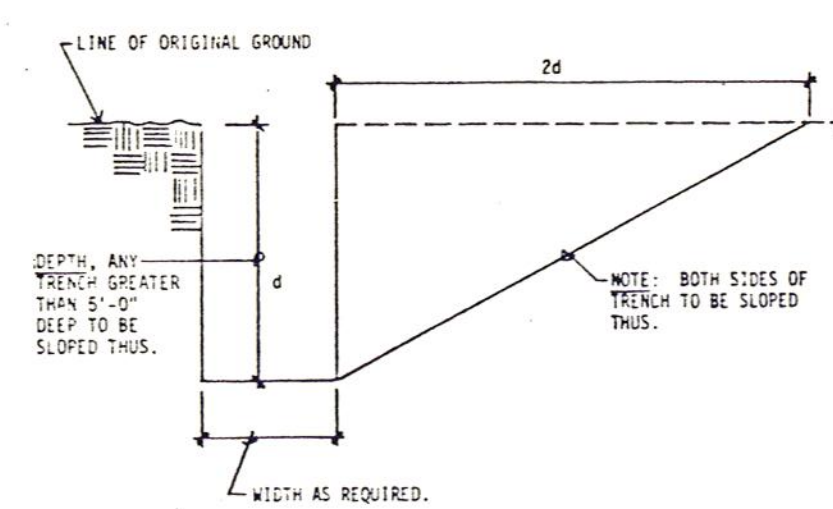


AIR COMPRESSOR

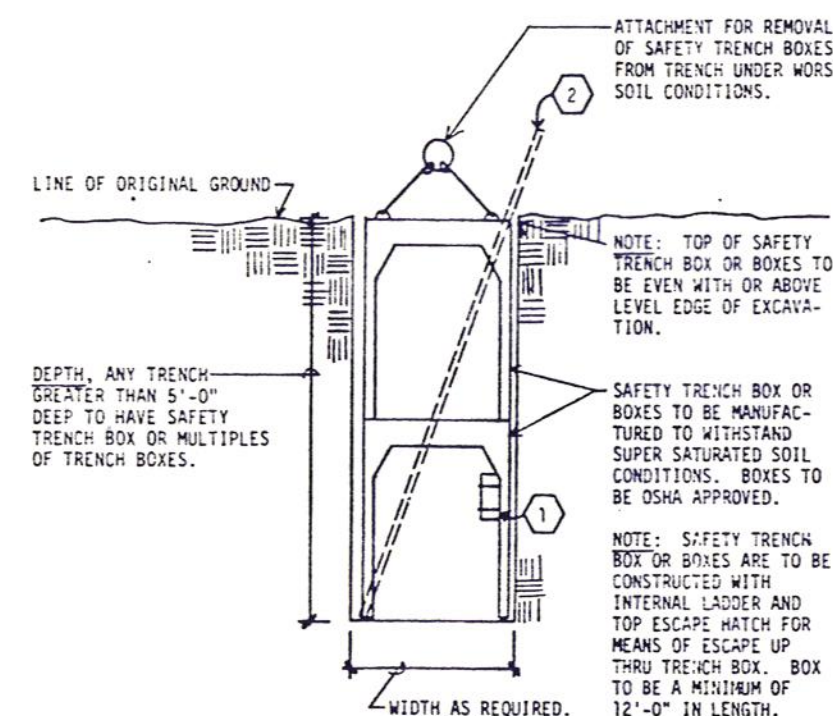
AIR COMPRESSOR SCHEDULE							
UNIT NO.	CAP (GPM)	PSIG	HP	ELEC. V, P, CY	MANUF.	TYPE	MODEL NO.
1	14.9	150	5	208-3Ø	INGERSOLL RAND	3Ø	5Ø
2	-	-	5	-	-	-	-

NOTE: 1. UNIT NO. 2 OWNER FURNISHED
2. UNIT NO. 1 FURNISHED BY MECH CONTR.

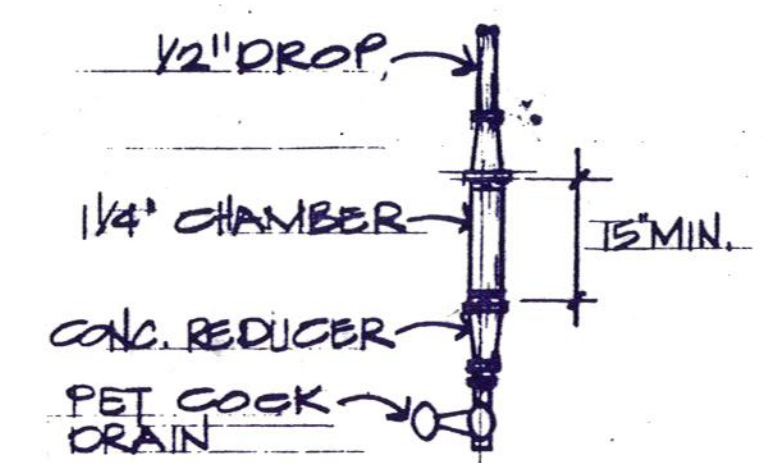
'REFG'D. AIR DRYER / AFTER COOLER'						
CAP (GPM)	DEW POINT TEMP. OF	WORK PRESS	HP	ELEC. V, P, CY	MANUF.	MODEL NO.
25	35	175	1/3	115V, 1Ø	HANSON	8Ø25



TRENCHING ALTERNATIVE NO. 1 NOT TO SCALE



TRENCHING ALTERNATIVE NO. 2 NOT TO SCALE



DRIP LEG DETAIL NOT TO SCALE



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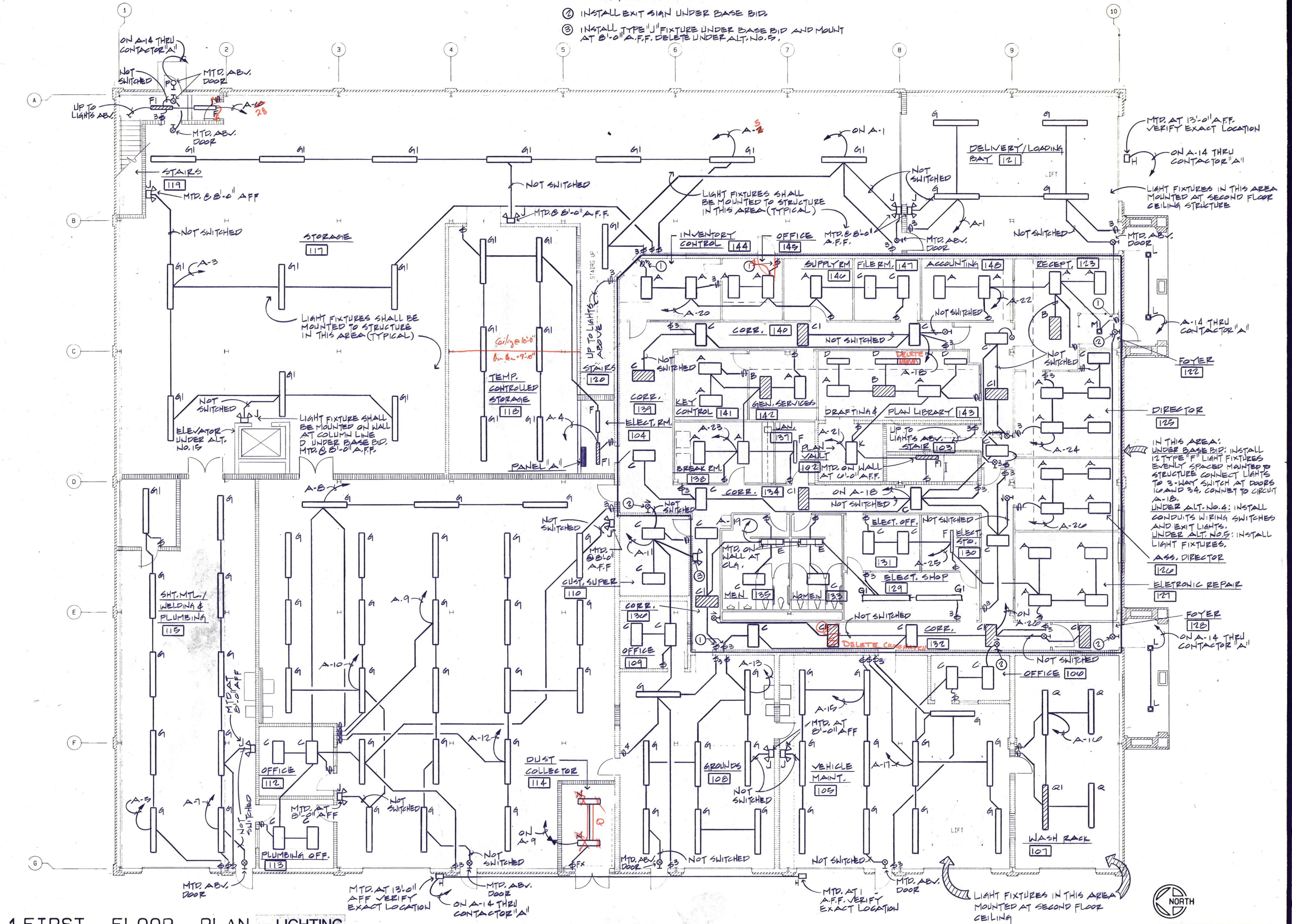
DRAWN W.D.M.JR.
CHECKED D.N.G.
DATE JULY 16, 1989
JOB NUMBER 8907
SHEET

P-5
OF 5P VOLUME II

FRIBERG ASSOCIATES INC.
CONSULTING ENGINEERS
P.O. BOX 2080 • FORT WORTH, TEXAS 76113-2080
FAI PROJECT NO. 89044.00

NOTES BY SYMBOL

1. INSTALL SWITCH BOX AND SWITCH UNDER BASE BID. STUB CONDUIT UP TO ABOVE PROPOSED CEILING HEIGHT FOR ALT. NO. 4.
2. INSTALL EXIT SIGN UNDER BASE BID.
3. INSTALL TYPE "J" FIXTURE UNDER BASE BID AND MOUNT AT 8'-0" A.F.F. DELETE UNDER ALT. NO. 5.



1 FIRST FLOOR PLAN - LIGHTING

1/8" = 1'-0"

PLOTTED MAY 3, 1989



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CONSULTING ENGINEERS
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Wichita Falls, Texas

DD
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DRAWN S.S.
CHECKED J.C.
DATE JULY 11, 1989
JOB NUMBER 8901
SHEET

E-2

OF 9E VOLUME II

Daugherty
& Glover, Inc.
ARCHITECTS
& ENGINEERS
1007 BROOK WICHITA FALLS, TEXAS 76701
(817) 323-9012





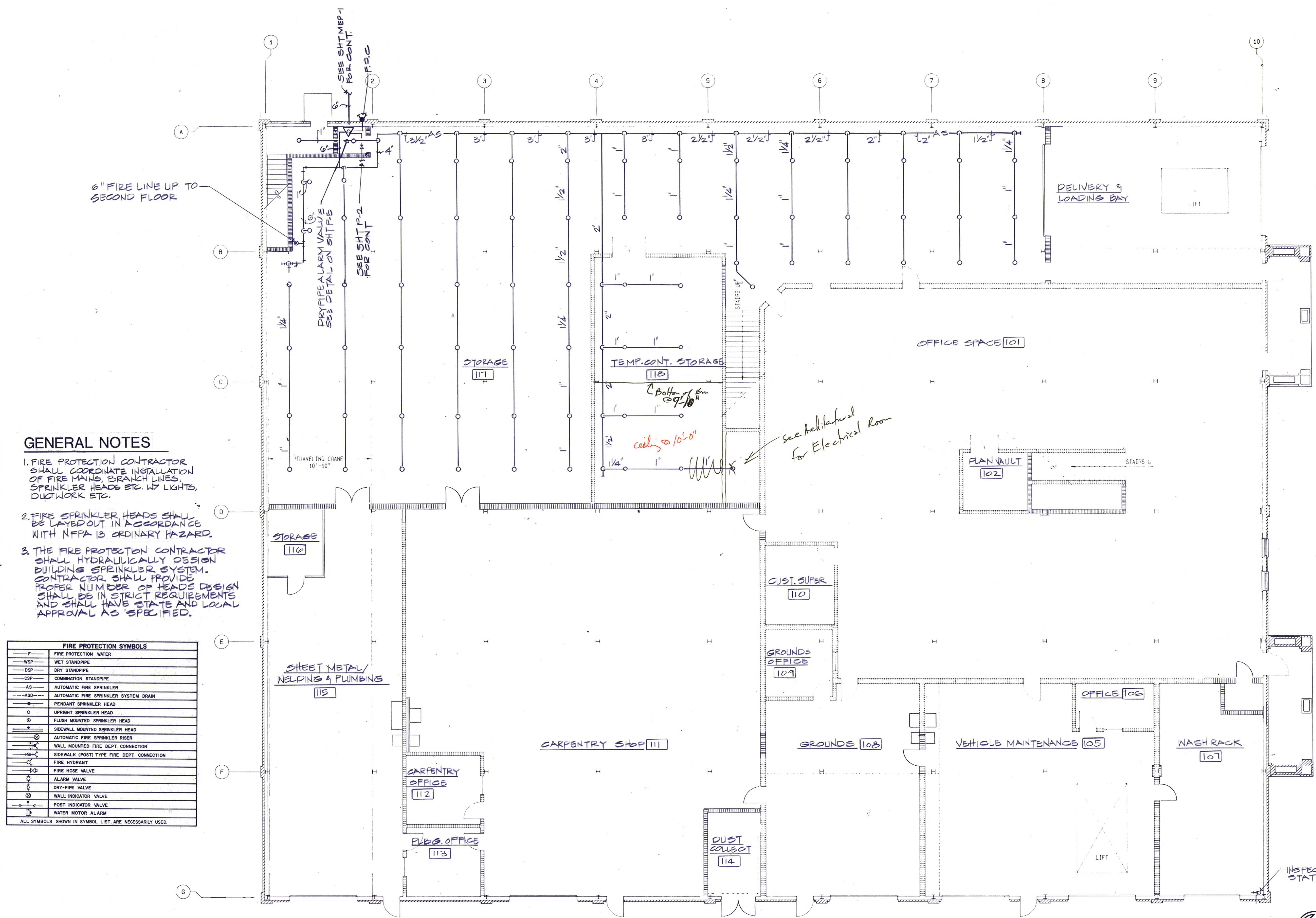
Daugherty & Glover, Inc.
ARCHITECTS & ENGINEERS
1807 BROOK WICHITA FALLS, TEXAS 76791
(817) 323-3013

A New Maintenance Facility
DANIEL BUILDING
Midwestern State University
Wichita Falls, Texas

MSMS

DRAWN W.D.M.-JR.
CHECKED D.W.C.
DATE JULY 16, 1989
JOB NUMBER 0907

SHEET
FRIBERG ASSOCIATES INC.
CONSULTING ENGINEERS
P.O. BOX 2080 • FORT WORTH, TEXAS 76113-2080
FAI PROJECT NO. 8904.00
FP-1
OF 2FP, VOLUME II



GENERAL NOTES

1. FIRE PROTECTION CONTRACTOR SHALL COORDINATE INSTALLATION OF FIRE MAINS, BRANCH LINES, SPRINKLER HEADS ETC. W/ LIGHTS, DUCTWORK ETC.
2. FIRE SPRINKLER HEADS SHALL BE LAYED OUT IN ACCORDANCE WITH NFPA 13 ORDINARY HAZARD.
3. THE FIRE PROTECTION CONTRACTOR SHALL HYDRAULICALLY DESIGN BUILDING SPRINKLER SYSTEM. CONTRACTOR SHALL PROVIDE PROPER NUMBER OF HEADS DESIGN SHALL BE IN STRICT REQUIREMENTS AND SHALL HAVE STATE AND LOCAL APPROVAL AS SPECIFIED.

FIRE PROTECTION SYMBOLS	
—	FIRE PROTECTION WATER
WSP	WET STANDPIPE
DSP	DRY STANDPIPE
CSP	COMBINATION STANDPIPE
AS	AUTOMATIC FIRE SPRINKLER
ASD	AUTOMATIC FIRE SPRINKLER SYSTEM DRAIN
—	PENDANT SPRINKLER HEAD
—	UPRIGHT SPRINKLER HEAD
—	FLUSH MOUNTED SPRINKLER HEAD
—	SIDEWALL MOUNTED SPRINKLER HEAD
—	AUTOMATIC FIRE SPRINKLER RISER
—	WALL MOUNTED FIRE DEPT. CONNECTION
—	SIDEWALK (POST) TYPE FIRE DEPT. CONNECTION
—	FIRE HYDRANT
—	FIRE HOSE VALVE
—	ALARM VALVE
—	DRY-PIPE VALVE
—	WALL INDICATOR VALVE
—	POST INDICATOR VALVE
—	WATER MOTOR ALARM

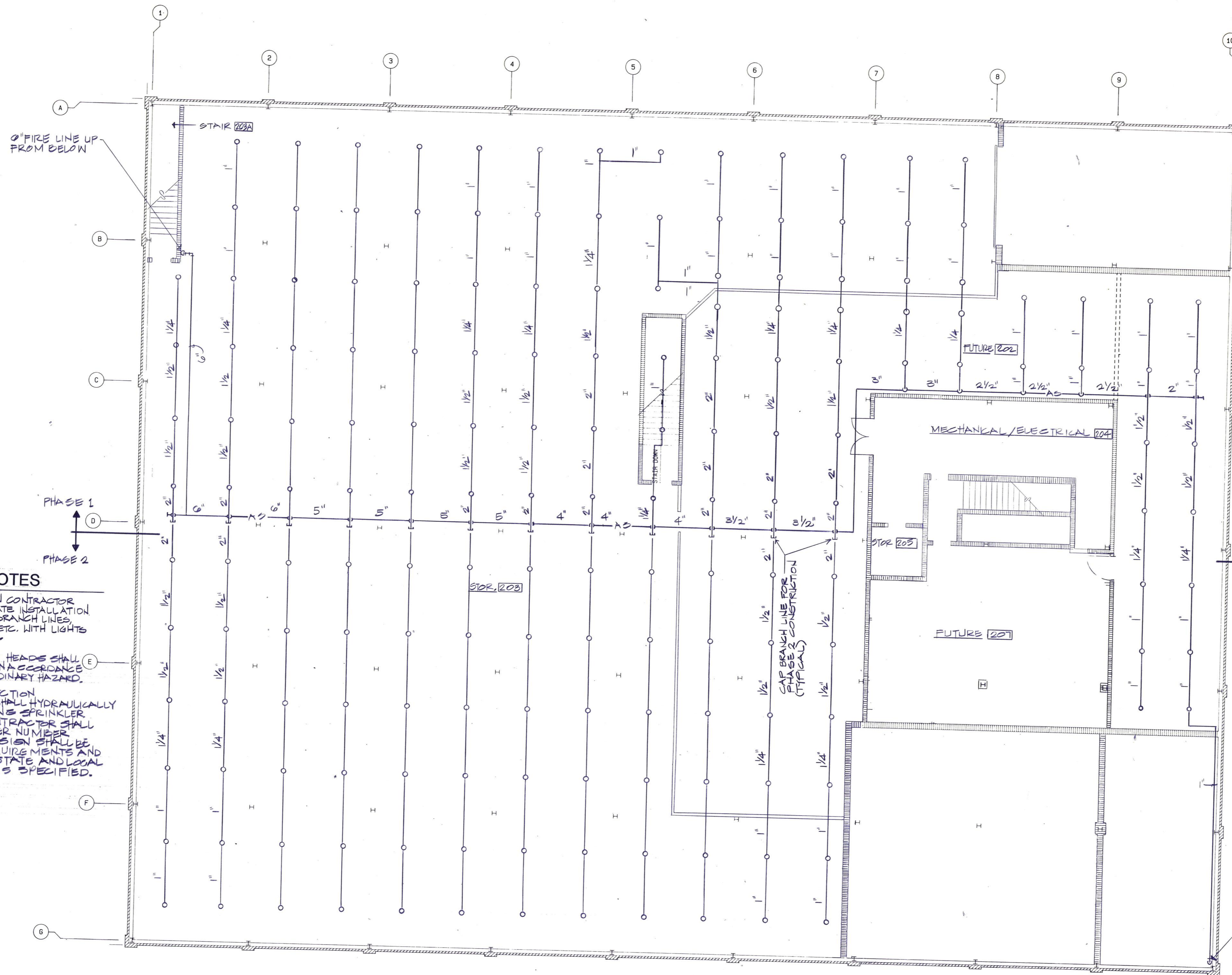
ALL SYMBOLS SHOWN IN SYMBOL LIST ARE NECESSARILY USED.

FIRST FLOOR PLAN - FIRE PROTECTION

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

PLOTTED: MAY 3, 1989





GENERAL NOTES

1. FIRE PROTECTION CONTRACTOR SHALL COORDINATE INSTALLATION OF FIRE MAINS, BRANCH LINES, SPRINKLER HEAD ETC. WITH LIGHTS & DUCTWORK ETC.
2. FIRE SPRINKLER HEADS SHALL BE LAYED OUT IN ACCORDANCE WITH NFPA 13 ORDINARY HAZARD.
3. THE FIRE PROTECTION CONTRACTOR SHALL HYDRAULICALLY DESIGN BUILDING SPRINKLER SYSTEM. CONTRACTOR SHALL PROVIDE PROPER NUMBER OF HEADS. DESIGN SHALL BE IN STRICT REQUIREMENTS AND SHALL HAVE STATE AND LOCAL APPROVALS AS SPECIFIED.

SECOND FLOOR PLAN - FIRE PROTECTION

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



PLOTTED: MAY 3, 1989

FRIBERG ASSOCIATES INC.
CONSULTING ENGINEERS
P.O. BOX 2080 • FORT WORTH, TEXAS 76115-2080
FAI PROJECT NO. 8904400

A New Maintenance Facility
DANIEL BUILDING
Midwestern State University
Wichita Falls, Texas

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DRAWN W.D.M., JR.
CHECKED D.W.G.
DATE JULY 11, 1987
JOB NUMBER 8907

SHEET

FP-2

OF 2FP, VOLUME II

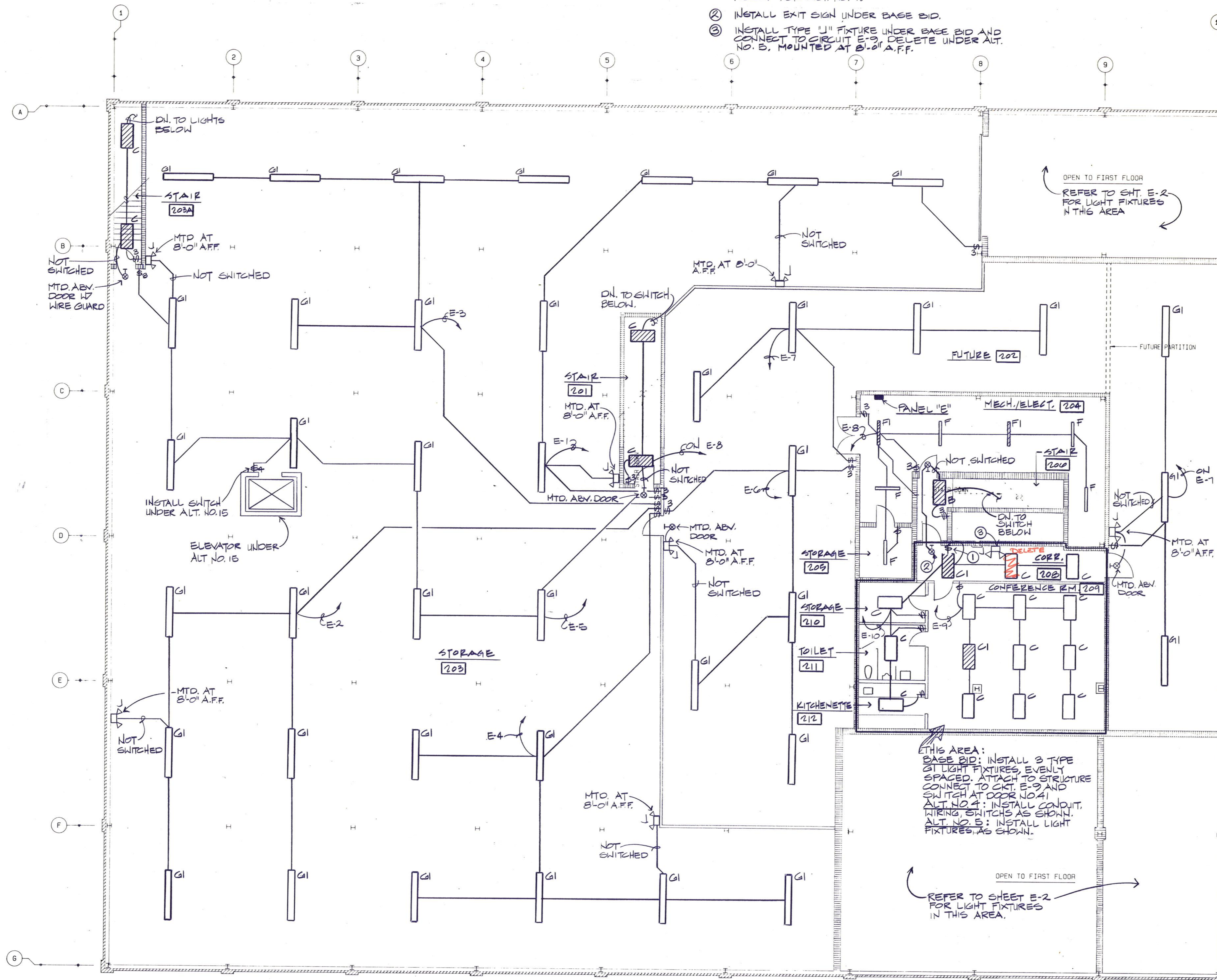


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(817) 322-3013

J.H. Glover
7-18-91

NOTES BY SYMBOL

1. INSTALL SWITCH BOX AND SWITCH UNDER BASE BID. STUB CONDUIT UP TO ABOVE PROPOSED CEILING HEIGHT FOR ALT. NO. 4.
2. INSTALL EXIT SIGN UNDER BASE BID.
3. INSTALL TYPE "J" FIXTURE UNDER BASE BID AND CONNECT TO CIRCUIT E-9. DELETE UNDER ALT. NO. 5. MOUNTED AT 8'-0" A.F.F.



1 SECOND FLOOR PLAN - LIGHTING

1/8" = 1'-0"



PLOTTED: MAY 3, 1989

FRIBERG ASSOCIATES INC.
CONSULTING ENGINEERS
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FAI PROJECT NO. 8904400

DRAWN J.M.
CHECKED J.C.
DATE JULY 11, 1989
JOB NUMBER 8907
SHEET E-3
OF 9 E VOLUME II

A New Maintenance Facility
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Wichita Falls, Texas

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ARCHITECTS
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NOTES BY SYMBOL

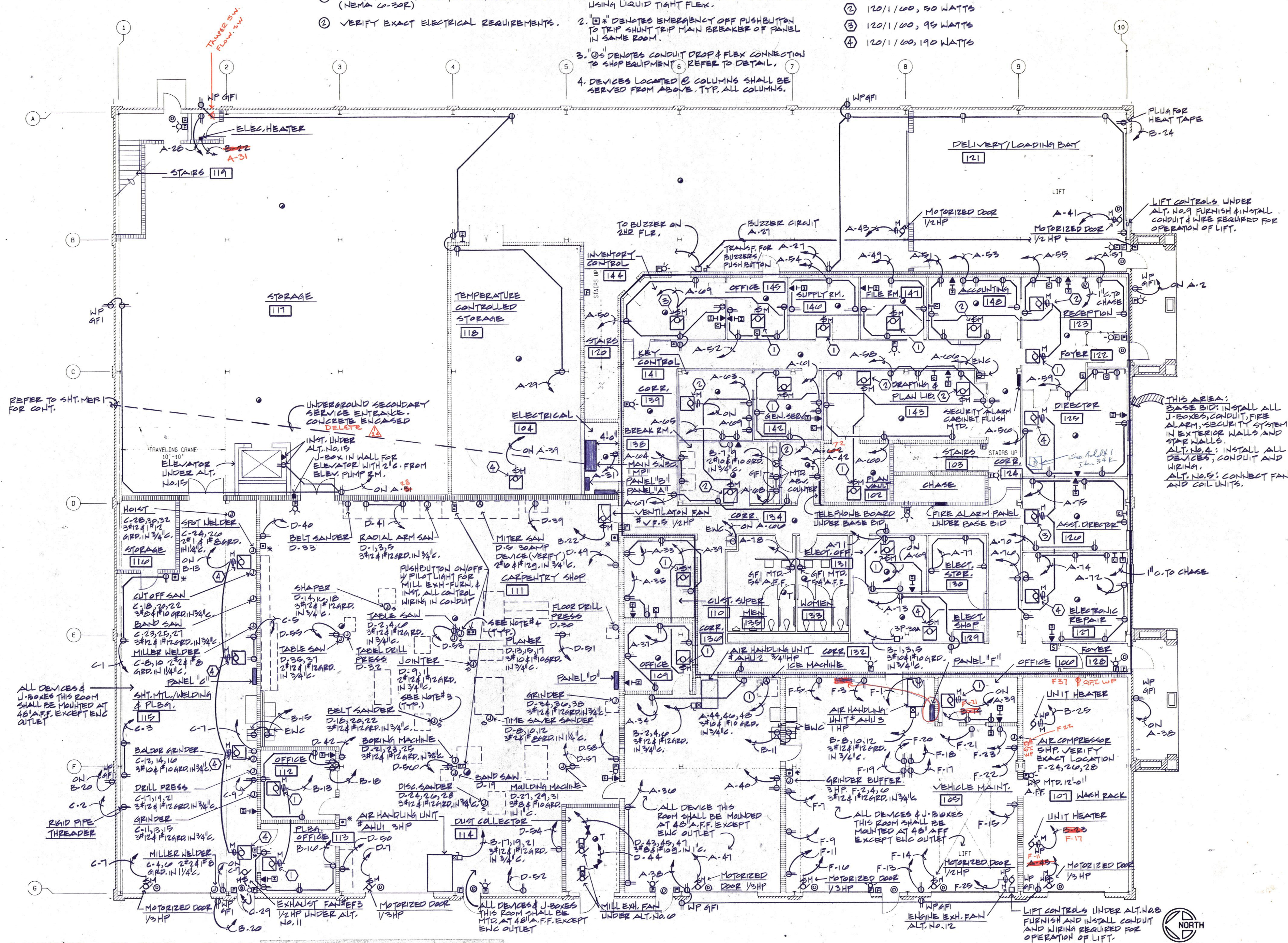
1. VERIFY EXACT ELECTRICAL REQUIREMENTS (NEMA C-30R).
2. VERIFY EXACT ELECTRICAL REQUIREMENTS.

GENERAL NOTES

1. MAKE FINAL CONNECTION TO SHOP EQUIPMENT USING LIQUID TIGHT FLEX.
2. "E" DENOTES EMERGENCY OFF PUSHBUTTON TO TRIP SHUNT TRIP MAIN BREAKER OF PANEL IN SAME ROOM.
3. "O" DENOTES CONDUIT DROP & FLEX CONNECTION TO SHOP EQUIPMENT. REFER TO DETAIL.
4. DEVICES LOCATED @ COLUMNS SHALL BE SERVED FROM ABOVE. TYP. ALL COLUMNS.

ROOM FAN & COIL UNIT SCHEDULE

1. 120/1/100, 50 WATTS
2. 120/1/100, 50 WATTS
3. 120/1/100, 95 WATTS
4. 120/1/100, 190 WATTS



1 FIRST FLOOR PLAN - POWER & SPECIAL SYSTEMS

1/8" = 1'-0"

PLOTTED: MAY 3, 1988



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FAI PROJECT NO. 8904-00



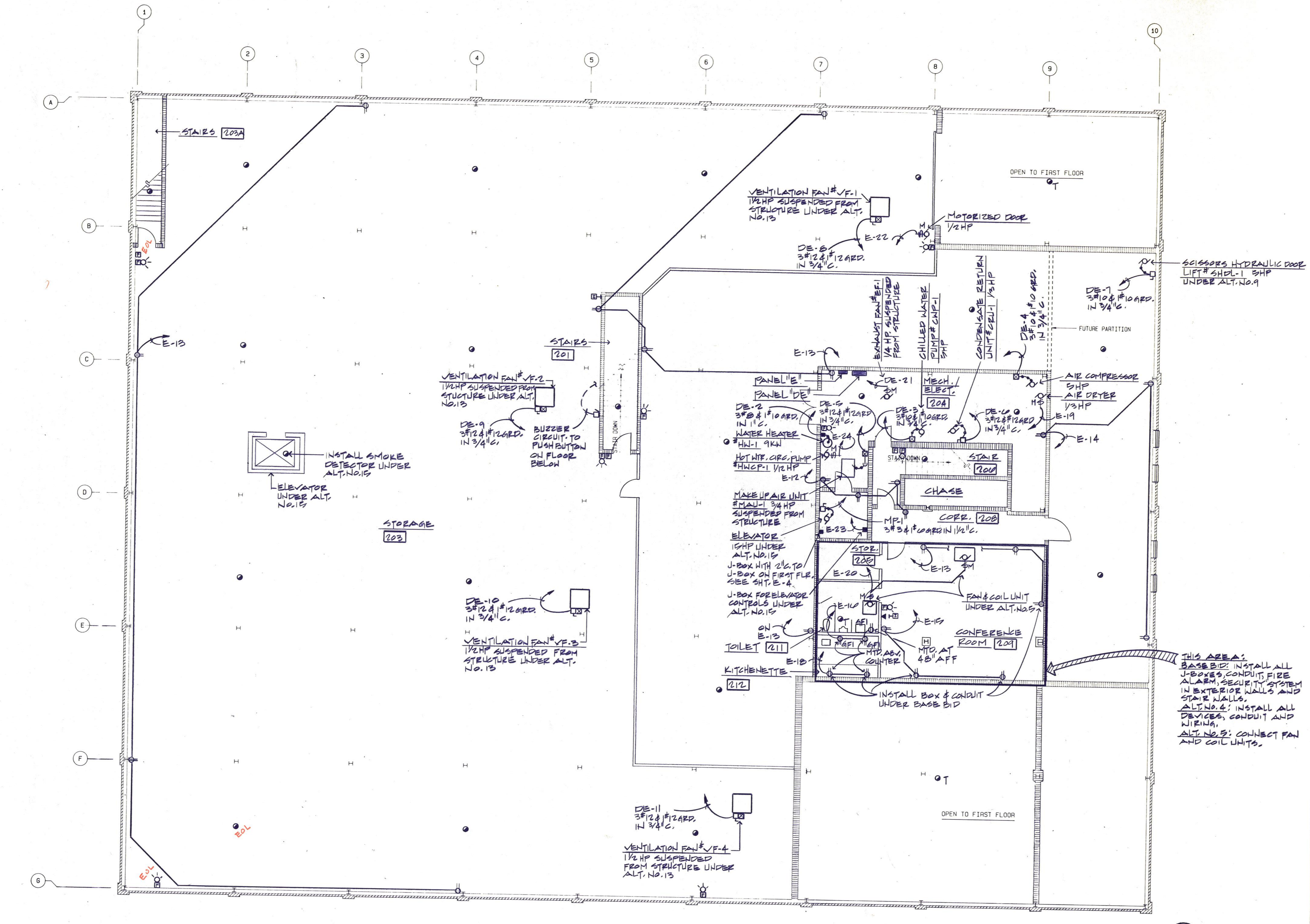
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DATE JULY 11, 1989
JOB NUMBER 8907
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E-4
OF 9E VOLUME II



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



PLOTTED: MAY 3, 1989

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FAI PROJECT NO. **8904100**

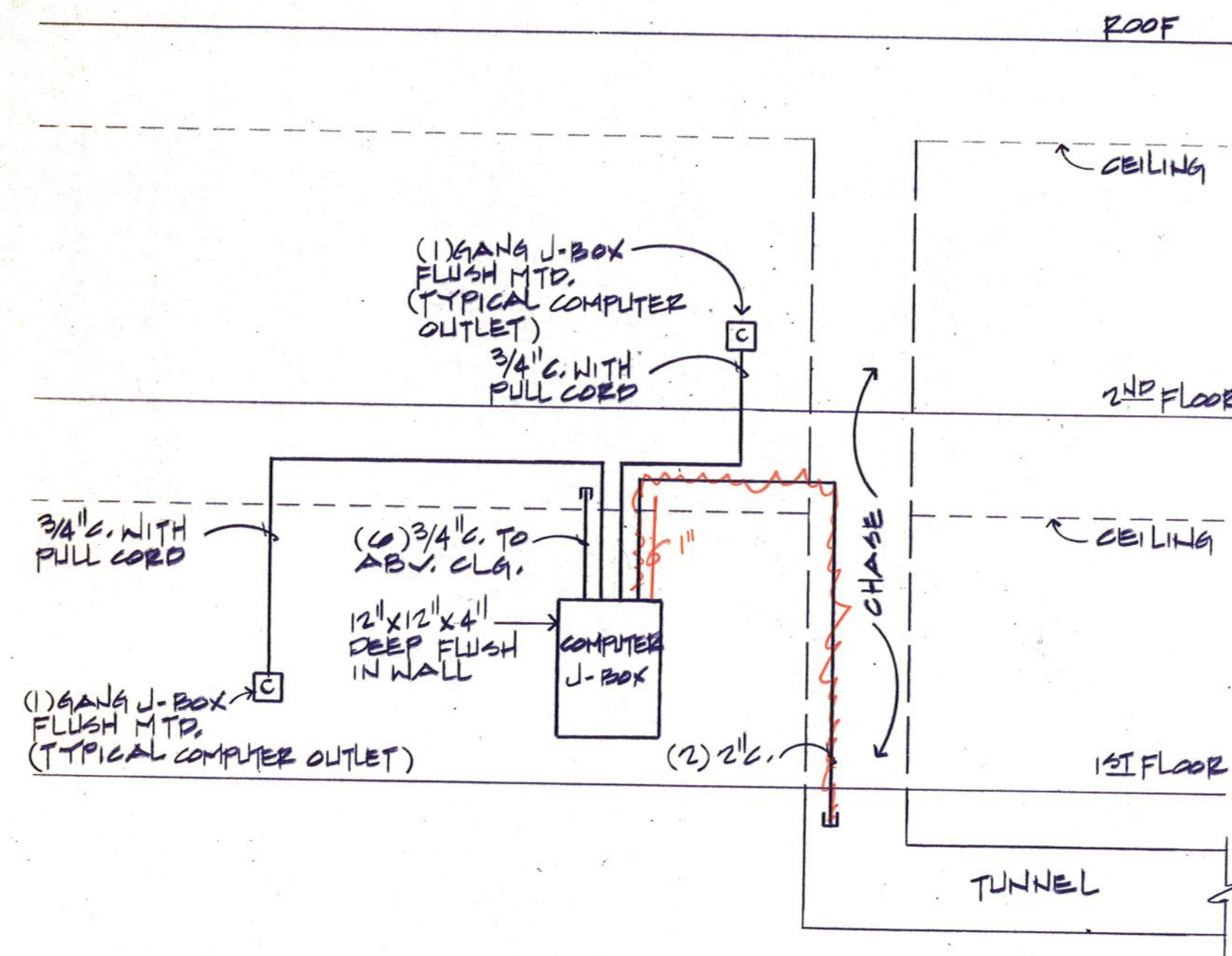


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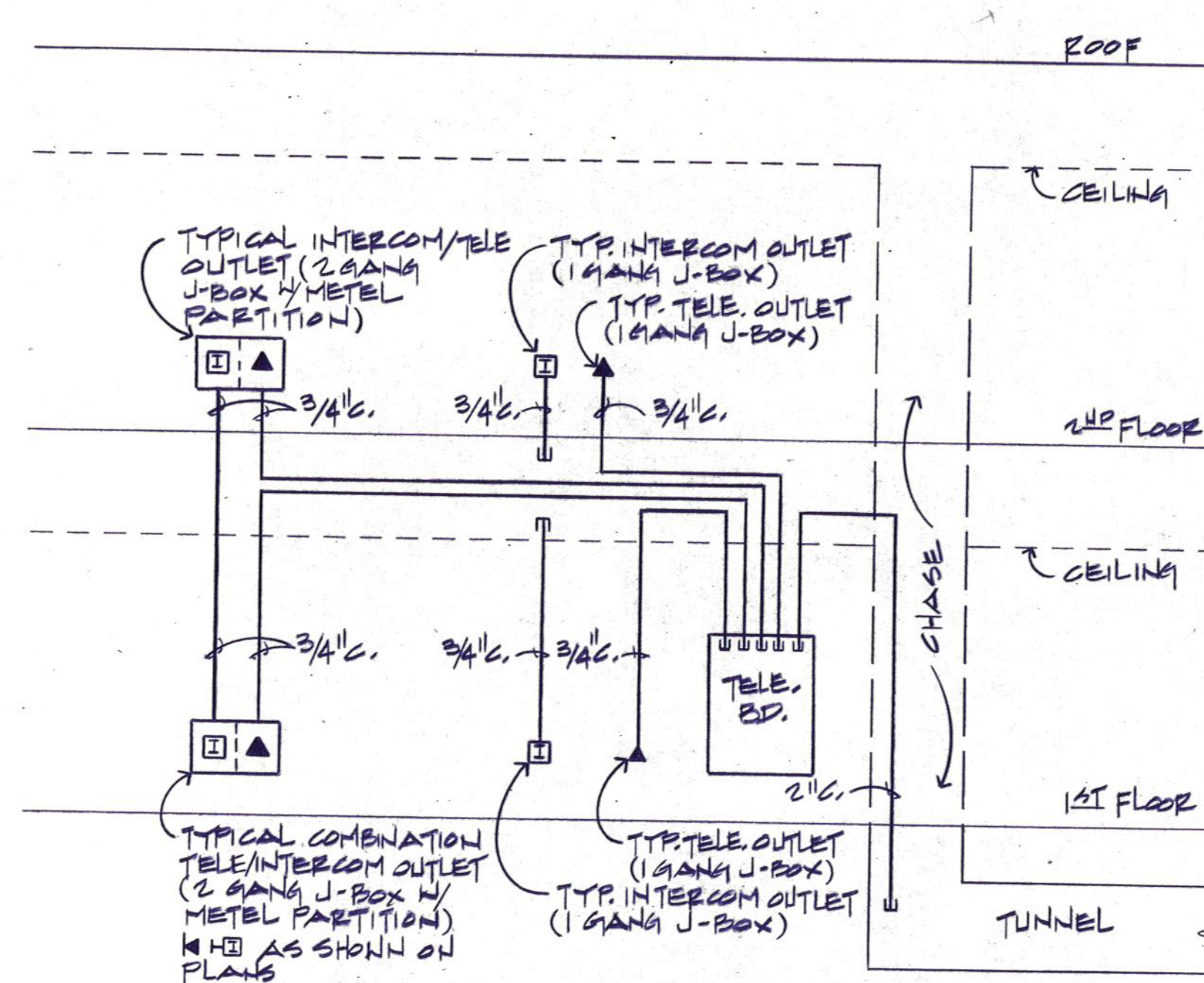
DRAWN	S.S.
CHECKED	J.C.
DATE	JULY 11, 1989
JOB NUMBER	8901
SHEET	E-5
OF 9E	VOLUME II



COMPUTER ROUGH-IN RISER

NOT TO SCALE

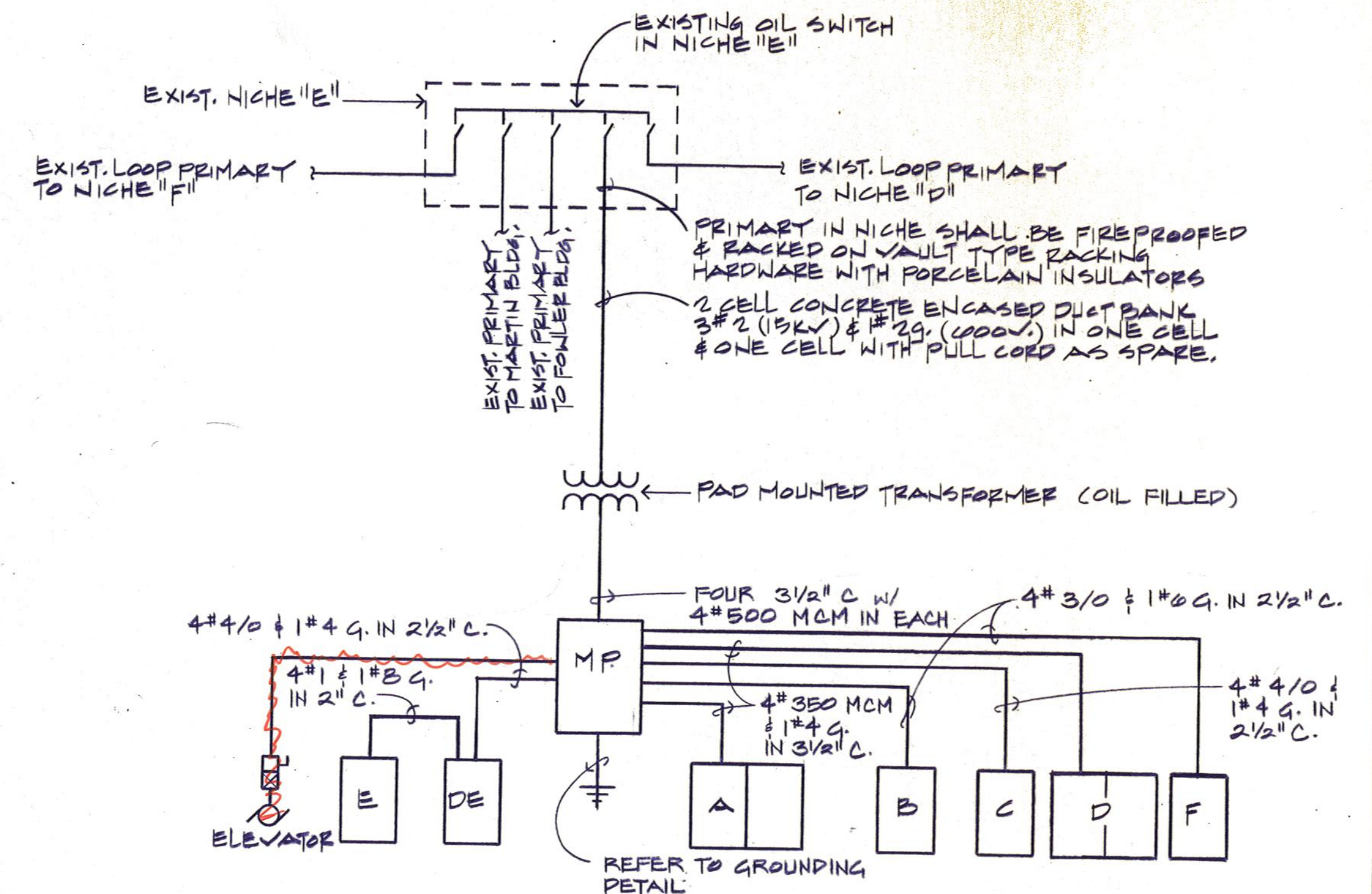
- NOTES:
1. REFER TO FLOOR PLANS FOR QUANTITY OF OUTLETS
 2. INSTALL BLANK COVER PLATE ON EACH OUTLET BOX



TELEPHONE / INTERCOM RISER DIAGRAM

NOT TO SCALE

- NOTES:
1. INTERCOM SYSTEM IS ROUGH-IN ONLY. DO NOT INSTALL COVER PLATE AT OUTLETS.
 2. TELEPHONE - INSTALL OWNER FURNISHED TELEPHONE CABLE FROM EACH OUTLET TO TELE. BD. LEAVE 12" PLATE @ EA. OUTLET. FINAL TERMINATIONS WILL BE BY OWNER. DO NOT INSTALL COVER PLATE AT OUTLETS. LEAVE LENGTH AS REQ'D BY OWNER AT TELEPHONE BOARD FOR TERMINATION.
 3. INSTALL PULL CORD IN ALL ROUGH-IN RACEWAYS.
 4. REFER TO FLOOR PLANS FOR NUMBER OF OUTLETS.



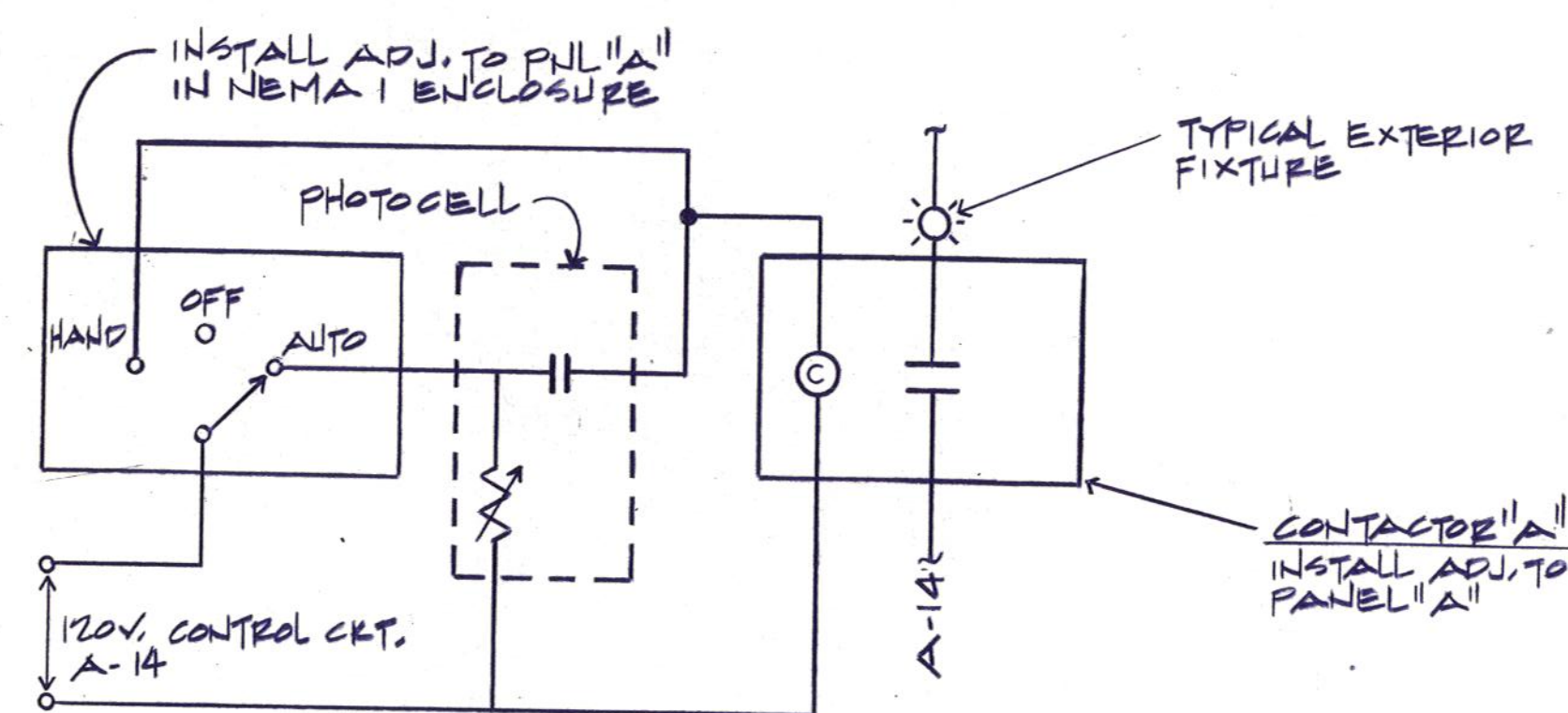
ELECTRICAL SCHEMATIC DIAGRAM

NOT TO SCALE

NOTE: FEEDERS SHALL BE ROUTED ABOVE CEILINGS, NOT BELOW FLOOR SLAB.

FAULT CONNECT

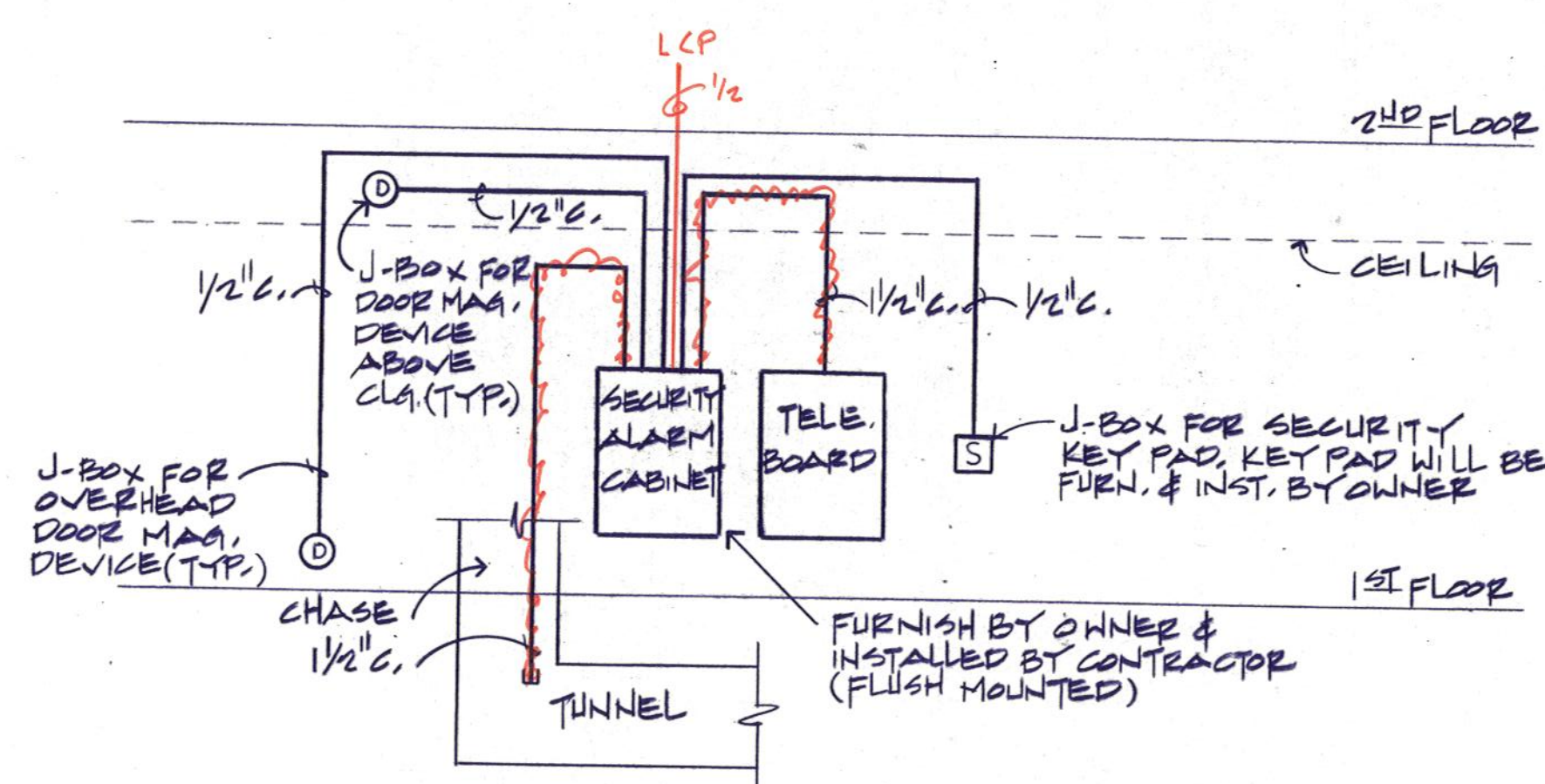
SHORT CIRCUIT ANALYSIS -- ZBUS METHOD					1000 MVA BASE
3 PHASE FAULT					
NODE	NAME	R-PU	X-PU	IAGN	ISYN
1	1PBR SEC	6.01991	36.79381	97678.46	74450.05
2	PANEL HP	20.53318	40.53962	48326.7	43420.21
3	PANEL A	29.27023	71.88855	38371.4	35740.86
4	PANEL B	39.13987	72.53574	34822.04	33677.02
5	PANEL C	168.4622	175.4157	11458.6	11412.95
6	PANEL D	79.94516	137.7123	17884.79	17431.57
7	PANEL F	245.6742	205.6926	8669.849	8662.919
8	PANEL DE	112.2492	131.7628	16100.13	16035.98
9	PANEL E	149.2314	144.9378	13369.51	13342.82



EXTERIOR LIGHTING CONTROL SCHEMATIC

NOT TO SCALE

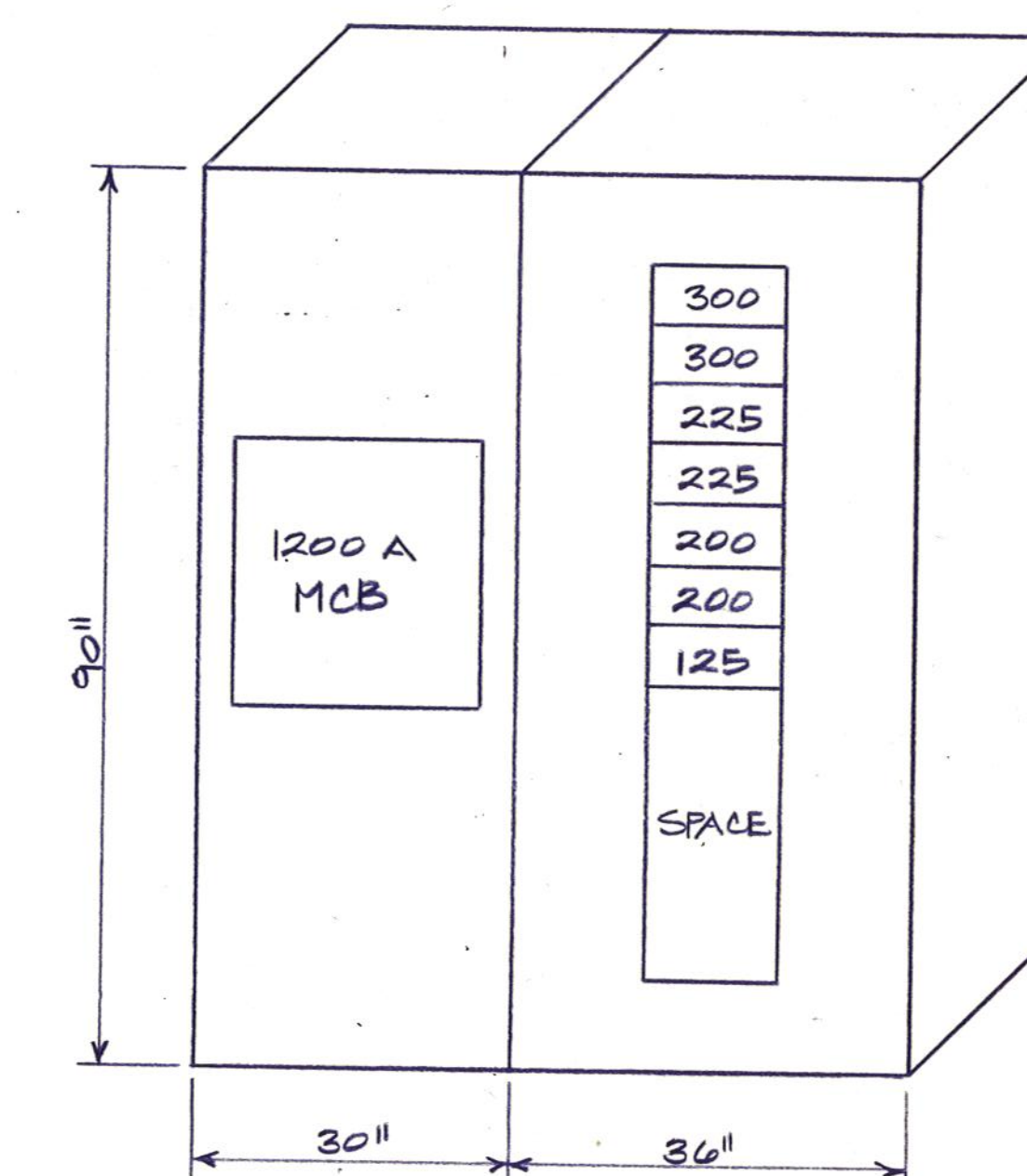
NOTE: INSTALL PHOTO CELL ON ROOF (FACING NORTH).



SECURITY ROUGH-IN RISER

NOT TO SCALE

- NOTES:
1. MAGNETIC DEVICES AT DOORS & OVERHEAD DOORS WILL BE FURN. & INST. BY OWNER.
 2. WIRING FOR SECURITY SYSTEM FURN. & INSTALLED BY OWNER. CONTRACTOR TO INSTALL PULL CORD IN EACH CONDUIT.
 3. REFER TO FLOOR PLANS FOR NUMBER OF DEVICES.



SWITCHBOARD ELEVATION

NOT TO SCALE

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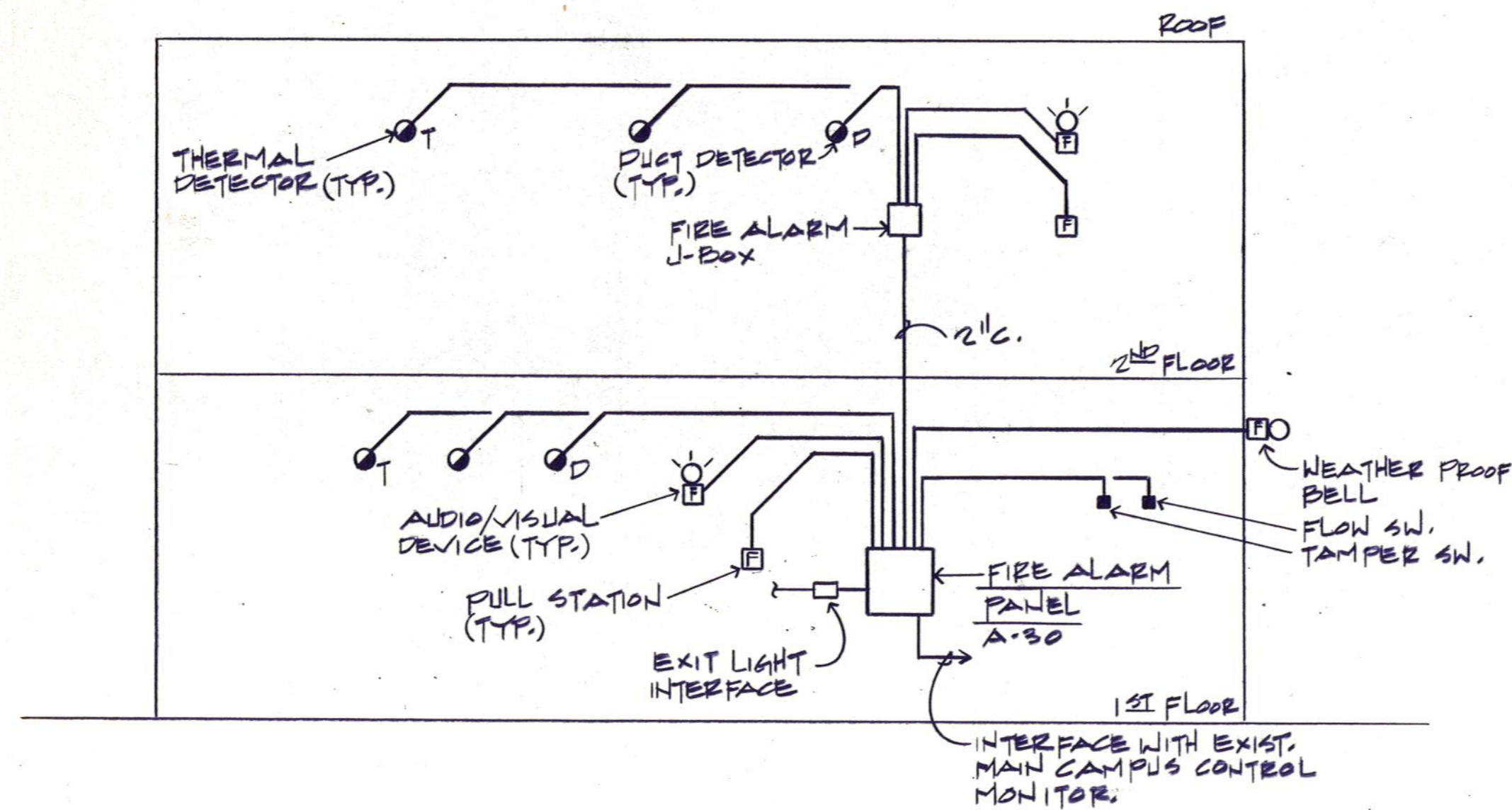
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E-6

OF 9E VOLUME II



FIRE ALARM SCHEMATIC

NOT TO SCALE

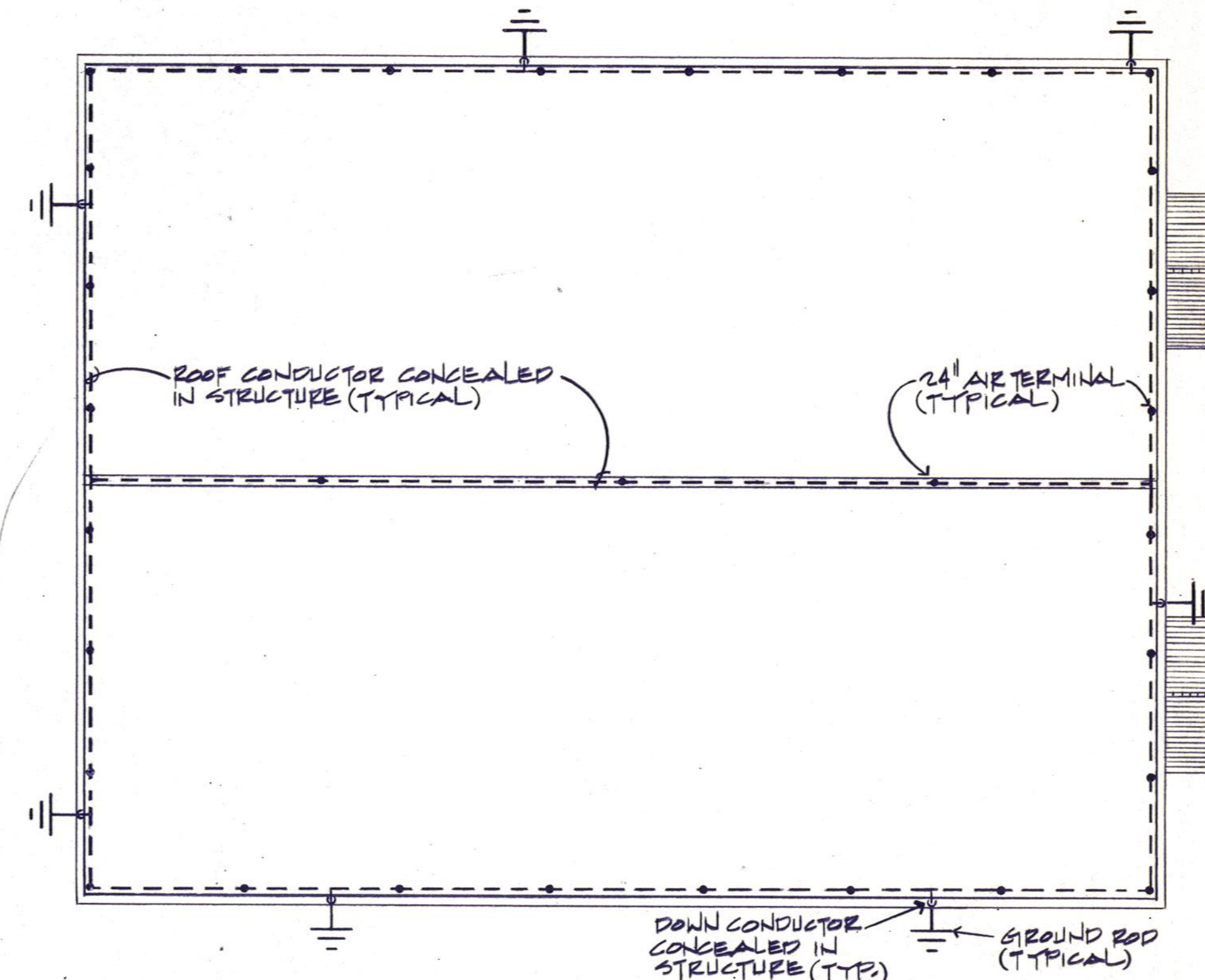
NOTE: DEVICES ARE TYPICAL, REFER TO DWGS. FOR QUANTITY OF DEVICES.

FIRE ALARM ZONE SCHEDULE		
ZONE NUMBER	ZONE DESCRIPTION	DEVICE
1	FIRST FLOOR	MANUAL PULL STATIONS
2	FIRST FLOOR	AUTOMATIC DETECTORS
3	SECOND FLOOR	MANUAL PULL STATIONS
4	SECOND FLOOR	AUTOMATIC DETECTORS
5	SPRINKLER	FLOW SWITCH
6	SPRINKLER	TAMPER SWITCH
7	AIR HANDLING UNIT #AHU1	DUCT DETECTOR
8	AIR HANDLING UNIT #AHU2	DUCT DETECTOR
9	AIR HANDLING UNIT #AHU3	DUCT DETECTOR
10	VENTILATION FAN #VF-1	DUCT DETECTOR
11	VENTILATION FAN #VF-2	DUCT DETECTOR
12	VENTILATION FAN #VF-3	DUCT DETECTOR
13	VENTILATION FAN #VF-4	DUCT DETECTOR
14	MAKE-UP AIR UNIT #MAU-1	DUCT DETECTOR
15	SPARE	
16	SPARE	

NOTES: 1. INSTALL DUCT SMOKE DETECTORS FOR AIR HANDLING UNITS IN RETURN AIR PLENUM AT EACH UNIT
2. INSTALL DUCT SMOKE DETECTORS FOR VENT FANS IN DISCHARGE OUT OF BUILDING FOR EACH UNIT.
3. INSTALL DUCT SMOKE DETECTOR FOR MAKE-UP AIR UNIT IN RETURN TO UNIT.

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION
A	2 X 4 4-LAMP FLUORESCENT LAY-IN FIXTURE FURNISHED BY OWNER AND INSTALLED BY THIS CONTRACTOR.
B	RECESSED 2' X 4' FLUORESCENT TROFFER WITH FLUSH STEEL FRAME, A12.125 ACRYLIC LENS, 4-LAMP, 120 VOLT BALLAST, EMERGENCY LIGHTING SUITABLE FOR LAY-IN CEILINGS, WHITE FINISH; EQUAL TO LITHONIA 26T440 SERIES.
C	RECESSED 2' X 4' FLUORESCENT TROFFER WITH FLUSH STEEL FRAME, A12.125 ACRYLIC LENS, 2-LAMP, 120 VOLT BALLAST, SUITABLE FOR LAY-IN CEILINGS, WHITE FINISH; EQUAL TO LITHONIA 26T440 SERIES.
C1	SAME AS TYPE "B", EXCEPT WITH SELF-CONTAINED EMERGENCY LIGHTING.
D	SURFACE 4' FLUORESCENT LOW-BRIGHTNESS WRAPAROUND WITH FLAT BOTTOM ACRYLIC PRISMATIC DIFFUSER, CONTINUOUS INTERLOCKING DIFFUSER SUPPORT, 2-LAMP, 120 VOLT BALLAST, WHITE FINISH; EQUAL TO LITHONIA 2SC240 SERIES.
E	WALL MOUNTED 4' FLUORESCENT WITH A12.125 ACRYLIC DIFFUSER, 2-LAMP, 120 VOLT BALLAST, WHITE FINISH; EQUAL TO LITHONIA WS240 SERIES.
F	SURFACE 4' FLUORESCENT STRIP WITH 2-LAMP, 120 VOLT BALLAST, WIRE GUARD, WHITE FINISH; EQUAL TO LITHONIA C240 SERIES.
F1	SAME AS TYPE "G", EXCEPT WITH SELF-CONTAINED EMERGENCY LIGHTING.
G	SURFACE 8' FLUORESCENT GENERAL PURPOSE INDUSTRIAL WITH TWO (2) 96" H.O. LAMPS, NO UPLIGHT, HEAVY DUTY WIRE GUARD, 120 VOLT BALLAST; EQUAL TO LITHONIA E3296HD SERIES.
G1	SAME AS TYPE "G", EXCEPT WITH SLIMLINE LAMPS.
H	WALL MOUNTED 150 WATT HIGH PRESSURE SODIUM Fixture FURNISHED BY OWNER INSTALLED BY THIS CONTRACTOR.
J	WALL OR STRUCTURE MOUNTED EMERGENCY FIXTURES, MAINTENANCE FREE LEAD-CALCIUM BATTERY, 6 VOLT OUTPUT, TWO (2) HEADS, 6 VOLT/12 WATT LAMPS EACH, 120/277 VOLT INPUT VOLTAGE, CHARGE INDICATION LIGHT, TEST BUTTON, ELANG 4/8 WIRE GUARD; LITHONIA ELU-2C, OR APPROVED EQUAL.
K	SAME AS TYPE "D", EXCEPT FOUR (4) LAMP.
L	RECESSED ROUND LENSED HIGH PRESSURE SODIUM DOWNLIGHT WITH 9 INCH OPENING, CLEAR SEMI-SPECULAR ALZAK REFLECTOR, REGRESSED SATIN WHITE DOOR WITH WHITE TRIM AND FRESNEL LENS, ALUMINUM HOUSING WITH WHITE FINISH, ONE (1) 70 WATT LAMP, 120 VOLT BALLAST; EQUAL TO LITHONIA GOTHAM "L" SERIES
M	RECESSED FLUORESCENT DOWNLIGHT, CLEAR ALZAK REFLECTOR, 120 VOLT BALLAST, TWO (2) 13 WATT QUAD TUBE LAMPS; EQUAL TO LITHONIA LQ130T/R03A.
N	SURFACE MOUNTED 4-FOOT EXPLOSION PROOF FLUORESCENT FIXTURE WITH 2-LAMPS, 120 VOLT BALLAST; EQUAL TO RIG-A-LITE XP SERIES.
P	WALL MOUNTED HIGH PRESSURE SODIUM FIXTURE WITH ONE (1) 35 WATT LAMP, 120 VOLT BALLAST, DARK BRONZE FINISH, IMPACT RESISTANT REFRACTOR; EQUAL TO LITHONIA HI-TEK "TWL" SERIES.
Q	SURFACE MOUNTED 8'-0" MET LOCATION FLUORESCENT FIXTURE WITH LENS AND GASKET, 120 VOLT; EQUAL TO LITHONIA DD SERIES WITH TWO (2) H.O. LAMPS.
Q1	SAME AS TYPE "Q", EXCEPT WITH EMERGENCY LIGHTING.
EXIT	EQUAL TO LITHONIA SIGNATURE WITH INTEGRAL BATTERY OPERATED EMERGENCY POWER SUPPLY, INCLUDING POWER FAILURE RELAY, TEST SWITCH, AC ON PILOT LIGHT, BATTERY, AND FULL AUTOMATIC CHARGER, STENCIL FACE, 6 INCH HIGH RED LETTERS DIRECTIONAL ARROWS AS INDICATED, PROVIDE FLASHING EMERGENCY OPERATION TO OPERATE UPON ACTIVATION OF FIRE ALARM, 120 VOLT.



ROOF PLAN - LIGHTNING PROTECTION

SCALE: 1" = 20'-0"

- NOTES: 1. INSTALL LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH THE LIGHTNING PROTECTION INSTITUTE INSTALLATION CODE LPI-175.
2. THE CONTRACTOR SHALL PROCURE AND INSTALL U.L. MASTER LABELS A, B, AND C FOR MATERIALS AND INSTALLATION.
3. THE CONTRACTOR SHALL PROVIDE DETAIL SHOP DRAWINGS SHOWING THE LOCATION OF EACH ITEM OF LIGHTNING PROTECTION EQUIPMENT, CONDUCTORS AND FABRICATION METHODS AND MATERIALS. THE SUBMITTAL SHALL BE APPROVED BY UNDERWRITERS LABORATORIES.
4. SUBMIT COMPLETE INSTALLATION DWGS. TO ENGINEER FOR APPROVAL.



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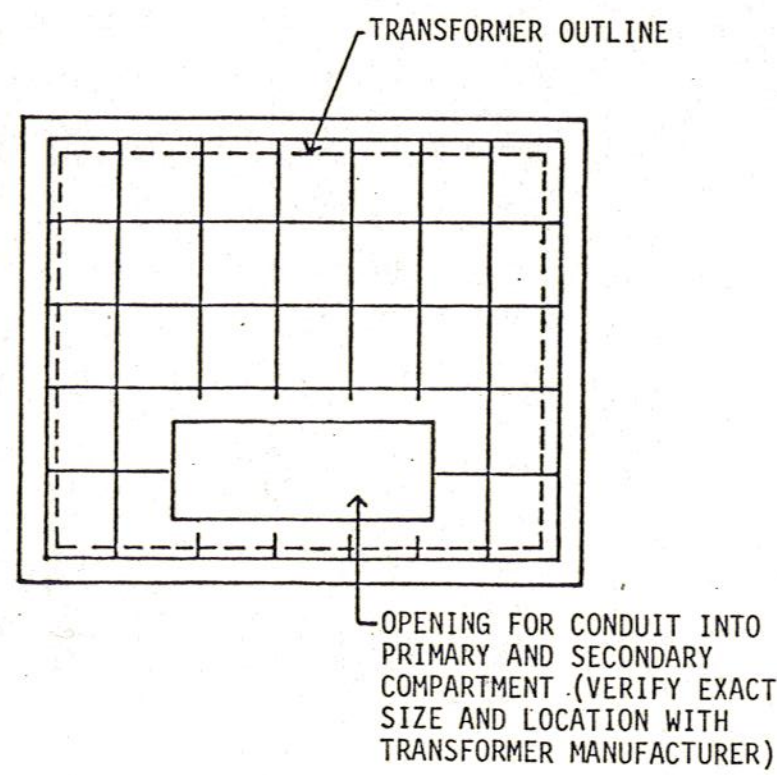
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E-7

OF 98 VOLUME II

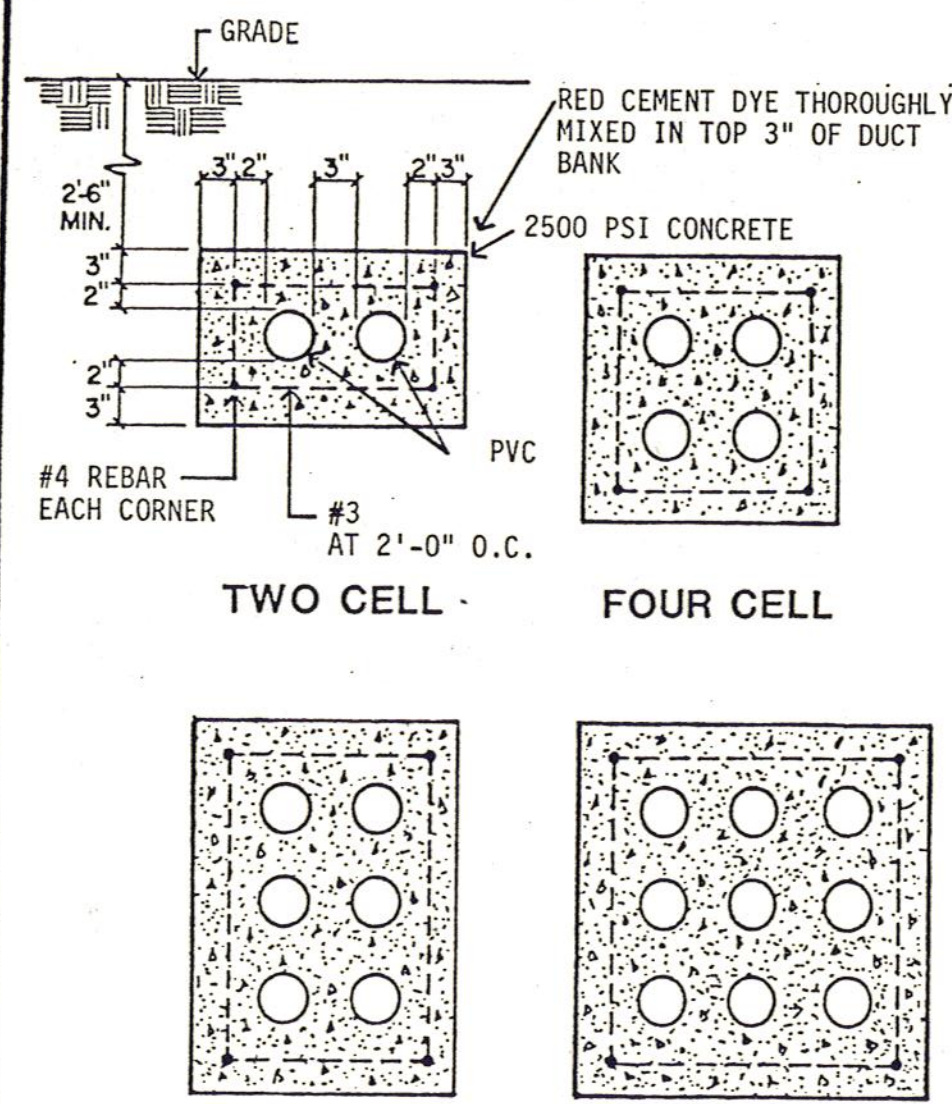
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FAI PROJECT NO. 89044.00



NOTES:

1. CONCRETE SHALL HAVE A 28 DAY STRENGTH OF 3000 PSI.
2. REBAR TO BE #3 DEFORMED PLACED ON 12" C-C EACH WAY.
3. PAD SHALL BE TROWEL FINISHED WITH CHAMFERED EDGES.
4. TOP OF FINISHED PAD SHALL BE 3" ABOVE GRADE. PAD SHALL BE 8" THICK.
5. ALLOW PAD TO CURE A MINIMUM 3 DAYS BEFORE SETTING TRANSFORMER.
6. FURNISH AND INSTALL A 3/4" x 10' DRIVEN COPPERWELD GROUND ROD LOCATED AS SHOWN.
7. TRANSFORMER PAD DETAILS ARE TYPICAL. PAD SHALL BE DIMENSIONED 6" LARGER THAN TRANSFORMER ALL AROUND.
8. PAD SHALL BE POURED ON 6" WET SAND CUSHION.

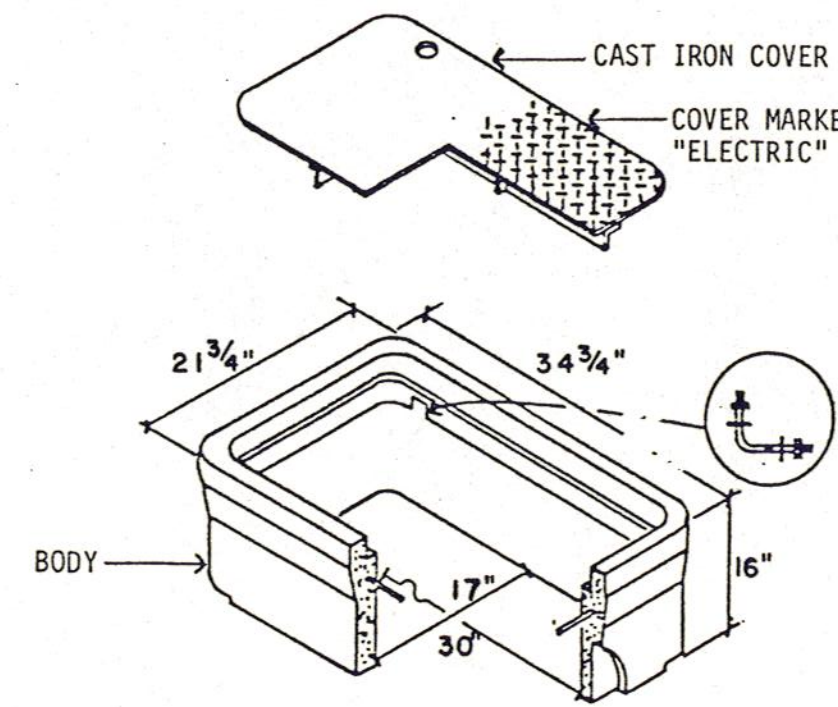
1 TRANSFORMER PAD



NOTES:

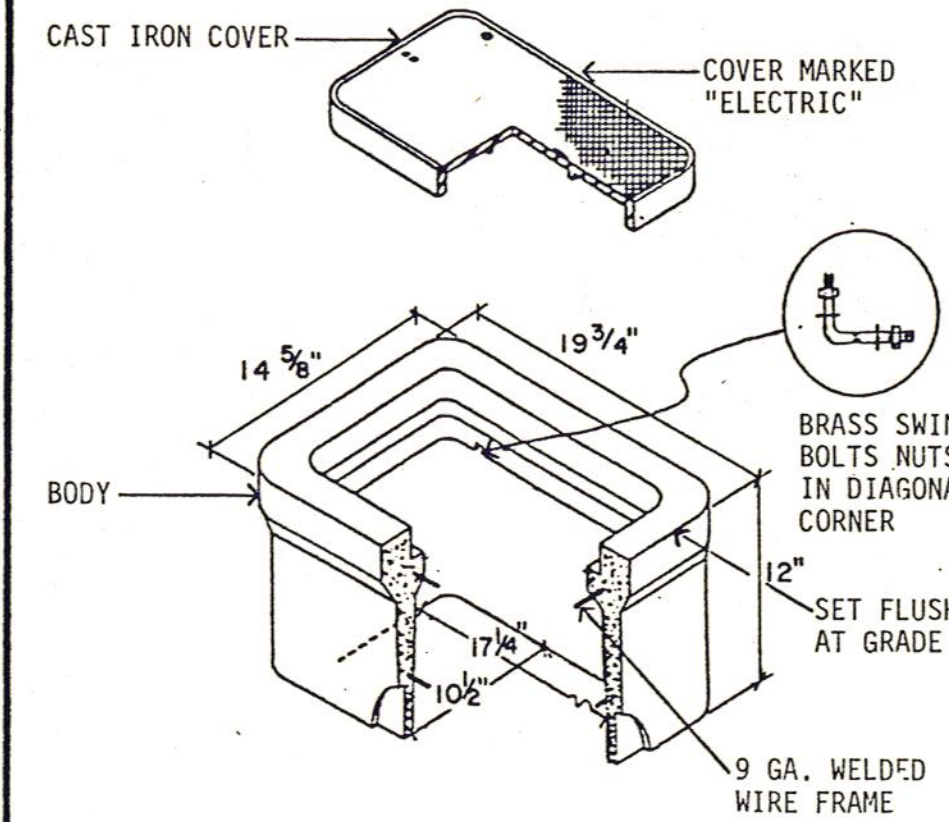
1. INSTALL PLASTIC BURIED LINE MARKER(S) FOR ENTIRE DUCT BANK.

2 DUCT BANK DETAIL



NOTE: SET ON 6" SAND CUSHION AT BASE.

3 OUTDOOR ELECTRICAL PULLBOX 17"X30"

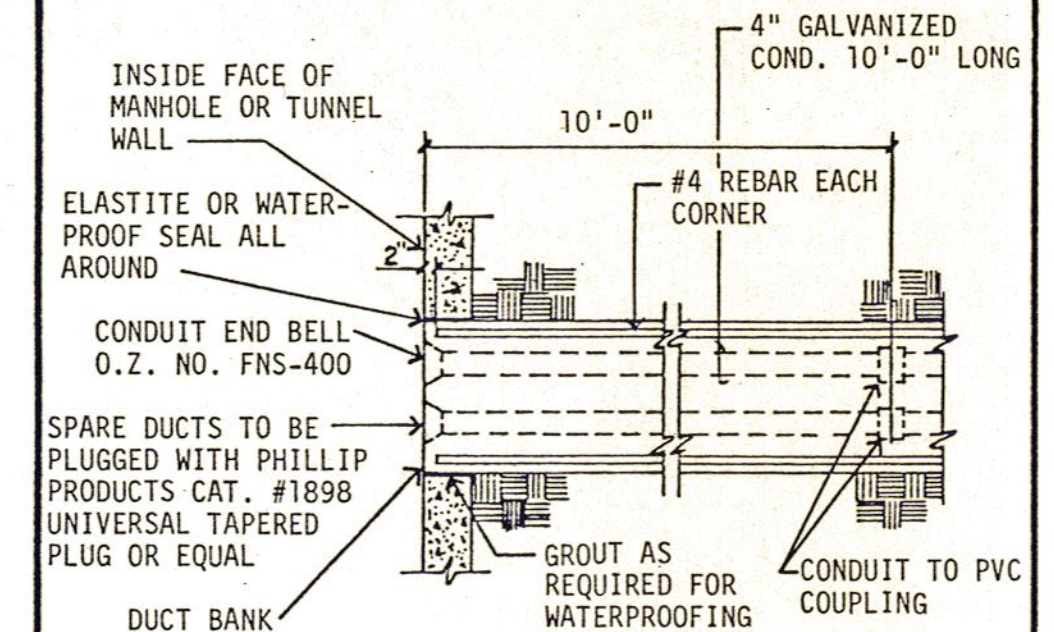


BROOKS PRODUCT #38T OR EQUAL

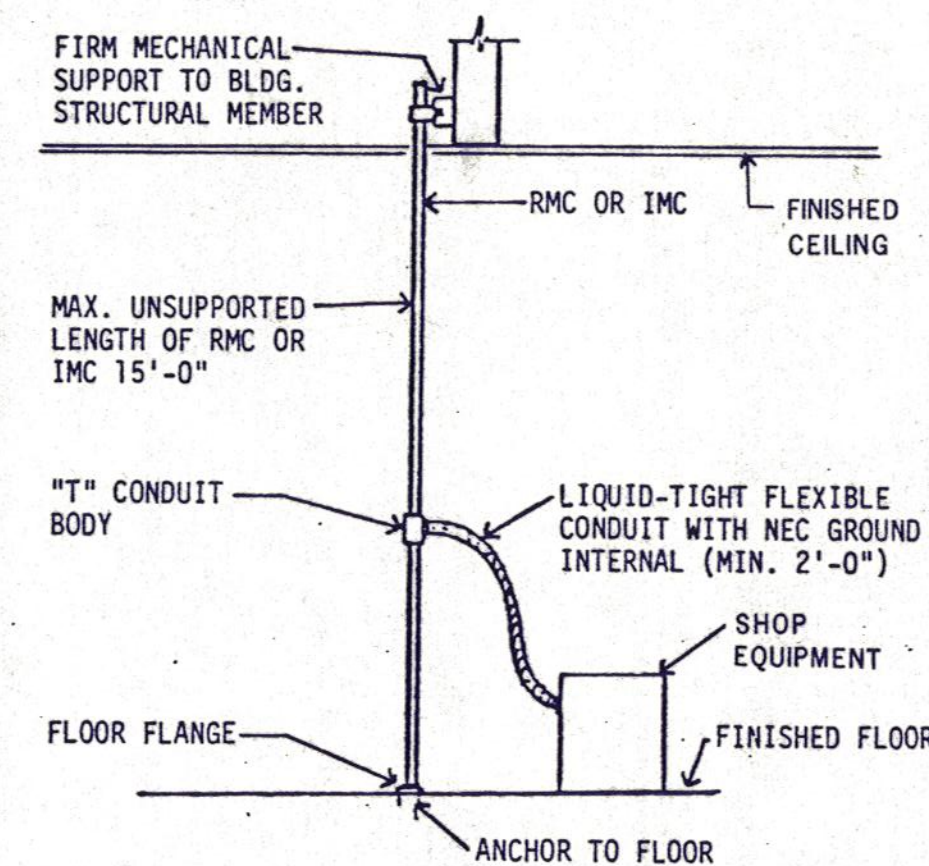
NOTES:

1. SET IN 6" SAND CUSHION AT BASE.
2. USE ONLY IN LANDSCAPED AREAS AND SIDEWALKS. NOT TO BE USED IN AREAS SUBJECT TO VEHICULAR TRAFFIC.

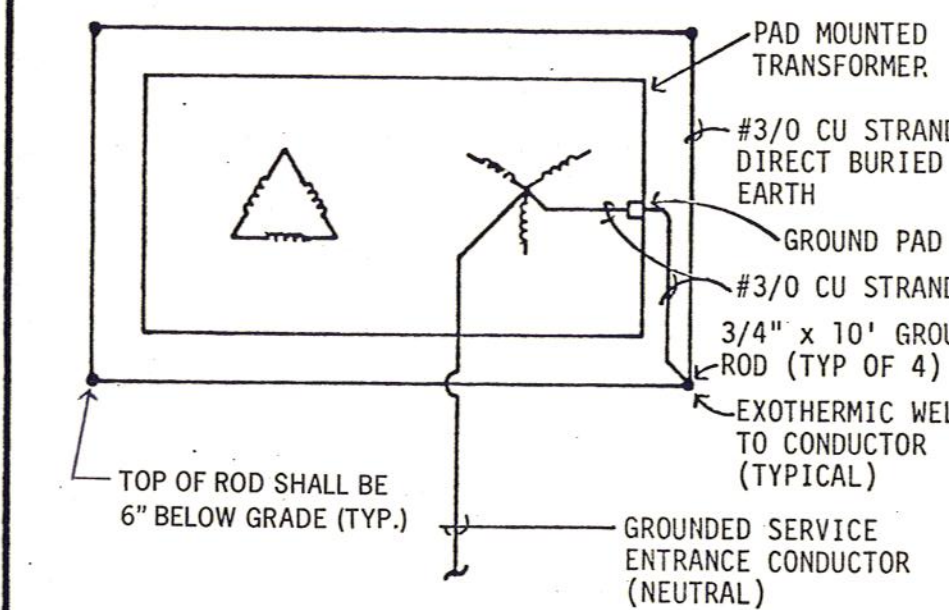
4 OUTDOOR ELECTRICAL PULLBOX 10"X17"



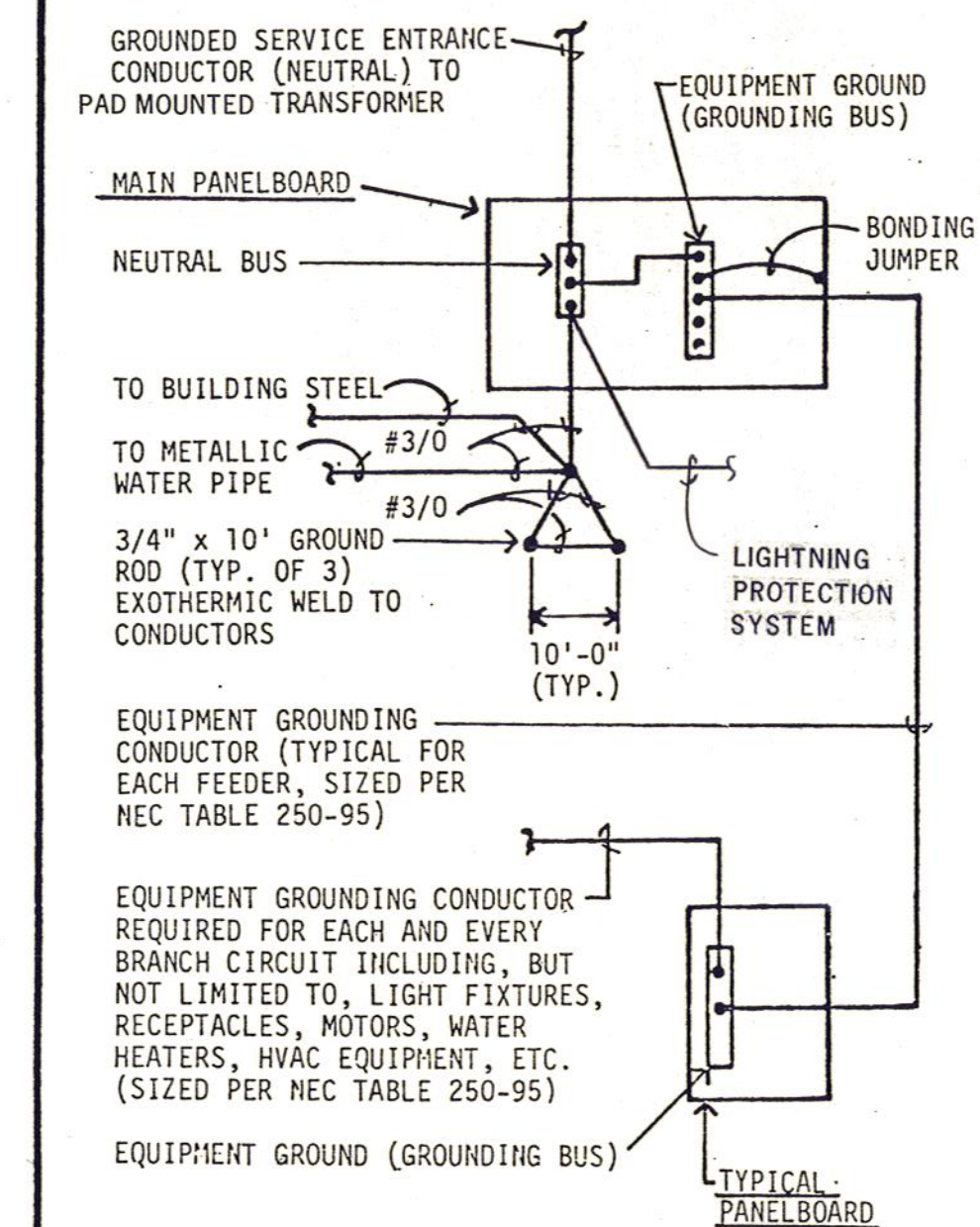
5 TYPICAL DUCT BANK ENTRANCE DETAIL



6 CONDUIT DROP FOR SHOP EQUIPMENT



7 PAD MOUNTED TRANSFORMER GROUND



8 GROUNDING SCHEMATIC

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SHEET

E-8

OF 9E VOLUME II

FRIBERG ASSOCIATES INC.
CONSULTING ENGINEERS
P.O. BOX 2080 • FORT WORTH, TEXAS 76113-2080
FAI PROJECT NO. 89044.00

SWITCHBOARD MP		MOUNTED: SURFACE		BUS: 1200 AMP	
CIRCUIT BREAKER TYPE		MAIN: 3P-1200A		MCB	
VOLTAGE: 208 / 120		AIC: 65,000			
PHASE: 3 WIRE: 4					
CIRCUIT NUMBER	DESCRIPTION	LOAD (KVA)	POLE	DEVICE	AMPS
1	PANEL A	89	3	300	
2	PANEL B	53	3	200	
3	PANEL C	76	3	225	
4	PANEL D	107	3	400	
5	DISTR PANEL DE	68	3	225	
6	PANEL F	56	3	200	
7	ELEVATOR	17	3	125	
8	SPACE		3	225	
9	SPACE		3	225	
		CONNECTED LOAD (KVA)	DEMAND LOAD (KVA)	CONN. LOAD AMPS: 1291	
		47	59	DEMAND LOAD AMPS: 930	
		11	14	PERCENT SPARE: 12	
		121	125		
		34	22		
		196	59		
		57	57		
TOTAL		465	335		

DISTRIB. PANEL DE		MOUNTED: SURFACE		BUS: 225 AMP	
CIRCUIT BREAKER TYPE		MAIN: MLO			
VOLTAGE: 208 / 120		AIC: 22,000			
PHASE: 3 WIRE: 4					
CIRCUIT NUMBER	DESCRIPTION	LOAD (KVA)	POLE	DEVICE	AMPS
1	PANEL E	31	3	100	
2	WTR HTR WH-1	9	3	40	
3	CWP-1	6	3	30	
4	AIR COMPRESSOR	6	3	30	
5	MAU-1	1	3	15	
6	CRU-1	1	3	15	
7	SHDL-1	6	3	30	
8	VF-1	2	3	15	
9	VF-2	2	3	15	
10	VF-3	2	3	15	
11	VF-4	2	3	15	
12	SPACE		3	30	
13	SPACE		3	30	
14	SPACE		3	30	
15	SPACE		3	30	
		CONNECTED LOAD (KVA)	DEMAND LOAD (KVA)	CONN. LOAD AMPS: 189	
		12	16	DEMAND LOAD AMPS: 208	
		9	11	PERCENT SPARE: 13	
		31	32		
		6	6		
		1	1		
		9	9		
TOTAL		68	75		

PANEL A		SECTION 1 OF 2		BUS: 400 AMP	
VOLTAGE: 208 / 120		MOUNTED: SURFACE		MAIN: MLO	
PHASE: 3 WIRE: 4		AIC: 42,000			
DESCRIPTION	LOAD (KVA)	BREAKER (POLE)	CIRCUIT NUMBER	BREAKER (POLE)	LOAD (KVA)
LIGHTING	1.5	1	20	1	20
LIGHTING	1.4	1	20	3	4
LIGHTING	1.2	1	20	5	6
LIGHTING	1.2	1	20	7	8
LIGHTING	1.2	1	20	9	10
LIGHTING	1.6	1	20	11	12
LIGHTING	1.6	1	20	13	14
LIGHTING	1.5	1	20	15	16
LIGHTING	1.3	1	20	17	18
LIGHTING	0.9	1	20	19	20
LIGHTING	1.3	1	20	21	22
LIGHTING	1.3	1	20	23	24
LIGHTING	1.1	1	20	25	26
RECEPTACLES	1.3	1	20	27	28
RECEPTACLES	0.9	1	20	29	30
RECEPTACLES	0.7	1	20	31	32
RECEPTACLES	0.6	1	20	33	34
RECEPTACLES	0.4	1	20	35	36
RECEPTACLES	0.7	1	20	37	38
IF&C UNITS	0.2	1	20	39	40
DOOR	1.2	1	20	41	42
		SECTION 2 OF 2		BUS: 400 AMP	
		MOUNTED: SURFACE		MAIN: MLO	
		AIC: 42,000			
DESCRIPTION	LOAD (KVA)	BREAKER (POLE)	CIRCUIT NUMBER	BREAKER (POLE)	LOAD (KVA)
LIGHTING	1.4	1	20	43	44
LIGHTING	0.9	1	20	45	46
LIGHTING	0.9	1	20	47	48
RECEPTACLES	0.7	1	20	49	50
RECEPTACLES	0.7	1	20	51	52
RECEPTACLES	0.7	1	20	53	54
RECEPTACLES	0.6	1	20	55	56
RECEPTACLES	0.4	1	20	57	58
RECEPTACLES	0.6	1	20	59	60
RECEPTACLES	0.4	1	20	61	62
RECEPTACLES	0.6	1	20	63	64
RECEPTACLES	0.4	1	20	65	66
RECEPTACLES	0.6	1	20	67	68
IF&C UNITS	1.4	1	20	69	70
RECEPTACLES	1.4	1	20	71	72
RECEPTACLES	0.6	1	20	73	74
RECEPTACLES	0.6	1	20	75	76
RECEPTACLES	0.6	1	20	77	78
SPARE	1.5	1	20	79	80
SPARE	1.5	1	20	81	82
SPARE	1.5	1	20	83	84
		SECTION 2 OF 2		BUS: 400 AMP	
		MOUNTED: SURFACE		MAIN: MLO	
		AIC: 42,000			
DESCRIPTION	LOAD (KVA)	BREAKER (POLE)	CIRCUIT NUMBER	BREAKER (POLE)	LOAD (KVA)
DOOR	1.2	1	20	143	144
DOOR	0.9	1	20	145	146
DOOR	0.9	1	20	147	148
RECEPTACLES	0.7	1	20	149	150
RECEPTACLES	0.7	1	20	151	152
RECEPTACLES	0.7	1	20	153	154
RECEPTACLES	0.6	1	20	155	156
RECEPTACLES	0.4	1	20	157	158
RECEPTACLES	0.6	1	20	159	160
RECEPTACLES	0.4	1	20	161	162
RECEPTACLES	0.6	1	20	163	164
RECEPTACLES	0.4	1	20	165	166
RECEPTACLES	0.6	1	20	167	168
IF&C UNITS	1.4	1	20	169	170
RECEPTACLES	1.4	1	20	171	172
RECEPTACLES	0.6	1	20	173	174
RECEPTACLES	0.6	1	20	175	176
RECEPTACLES	0.6	1	20	177	178
SPARE	1.5	1	20	179	180
SPARE	1.5	1	20	181	182
SPARE	1.5	1	20	183	184
		SECTION 2 OF 2		BUS: 400 AMP	
		MOUNTED: SURFACE		MAIN: MLO	
		AIC: 42,000			
DESCRIPTION	LOAD (KVA)	BREAKER (POLE)	CIRCUIT NUMBER	BREAKER (POLE)	LOAD (KVA)
DOOR	1.2	1	20	143	144
DOOR	0.9	1	20	145	146
DOOR	0.9	1	20	147	148
RECEPTACLES	0.7	1	20	149	150
RECEPTACLES	0.7	1	20	151	152
RECEPTACLES	0.7	1	20	153	154
RECEPTACLES	0.6	1	20	155	156
RECEPTACLES	0.4	1	20	157	158
RECEPTACLES	0.6	1	20	159	160
RECEPTACLES	0.4	1	20	161	162
RECEPTACLES	0.6	1	20	163	164
RECEPTACLES	0.4	1	20	165	166
RECEPTACLES	0.6	1	20	167	168
IF&C UNITS	1.4	1	20	169	170
RECEPTACLES	1.4	1	20	171	172
RECEPTACLES	0.6	1	20	173	174
RECEPTACLES	0.6	1	20	175	176
RECEPTACLES	0.6	1	20	177	178
SPARE	1.5	1	20	179	180
SPARE	1.5	1	20	181	182
SPARE	1.5	1	20	183	184
		SECTION 2 OF 2		BUS: 400 AMP	
		MOUNTED: SURFACE		MAIN: MLO	
		AIC: 42,000			
DESCRIPTION	LOAD (KVA)	BREAKER (POLE)	CIRCUIT NUMBER	BREAKER (POLE)	LOAD (KVA)
DOOR	1.2	1	20	143	144
DOOR	0.9	1	20	145	146
DOOR	0.9	1	20	147	148
RECEPTACLES	0.7	1	20	149	150
RECEPTACLES	0.7	1	20	151	152
RECEPTACLES	0.7	1	20	153	154
RECEPTACLES	0.6	1	20	155	156
RECEPTACLES	0.4	1	20	157	158
RECEPTACLES	0.6	1	20	159	160
RECEPTACLES	0.4	1	20	161	162
RECEPTACLES	0.6	1	20	163	164
RECEPTACLES	0.4	1	20	165	166
RECEPTACLES	0.6	1	20	167	168
IF&C UNITS	1.4	1	20	169	170
RECEPTACLES	1.4	1	20	171	172
RECEPTACLES	0.6	1	20	173	174
RECEPTACLES	0.6	1	20	175	176
RECEPTACLES	0.6	1	20	177	178
SPARE	1.5	1	20	179	180
SPARE	1.5	1	20	181	182
SPARE	1.5	1	20	183	184
		SECTION 2 OF 2		BUS: 400 AMP	
		MOUNTED: SURFACE		MAIN: MLO	
		AIC: 42,000			
DESCRIPTION	LOAD (KVA)	BREAKER (POLE)	CIRCUIT NUMBER	BREAKER (POLE)	LOAD (KVA)
DOOR	1.2	1	20	143	144
DOOR	0.9	1	20	145	146
DOOR	0.9	1	20	147	148
RECEPTACLES	0.7	1	20	149	150
RECEPTACLES	0.7	1	20	151	152
RECEPTACLES	0.7	1	20	153	154
RECEPTACLES	0.6	1	20	155	156
RECEPTACLES	0.4	1	20	157	158
RECEPTACLES	0.6	1	20	159	160
RECEPTACLES	0.4	1	20	161	162
RECEPTACLES	0.6	1	20	163	164
RECEPTACLES	0.4	1	20	165	166
RECEPTACLES	0.6	1	20	167	168
IF&C UNITS	1.4	1	20	169	170
RECEPTACLES	1.4	1	20	171	172
RECEPTACLES	0.6	1	20	173	174
RECEPTACLES	0.6	1	20	175	176
RECEPTACLES	0.6	1	20	177	178
SPARE	1.5	1	20	179	180
SPARE	1.5	1	20	181	182
SPARE	1.5	1	20	183	184
		SECTION 2 OF 2		BUS: 400 AMP	
		MOUNTED: SURFACE		MAIN: MLO	
		AIC: 42,000			
DESCRIPTION	LOAD (KVA)	BREAKER (POLE)	CIRCUIT NUMBER	BREAKER (POLE)	LOAD (KVA)
DOOR	1.2	1	20	143	144
DOOR	0.9	1	20	145	146
DOOR	0.9	1	20	147	148
RECEPTACLES	0.7	1	20	149	150
RECEPTACLES	0.7	1	20	151	152
RECEPTACLES	0.7	1	20	153	154
RECEPTACLES	0.6	1	20	155	156
RECEPTACLES	0.4	1	20	157	158
RECEPTACLES	0.6	1	20	159	160
RECEPTACLES	0.4	1	20	161	162
RECEPTACLES	0.6	1	20	163	164
RECEPTACLES	0.4	1	20	165	166
RECEPTACLES	0.6	1	20	167	168
IF&C UNITS	1.4	1	20	169	170
RECEPTACLES	1.4	1	20	171	172
RECEPTACLES	0.6	1	20	173	174
RECEPTACLES	0.6	1	20	175	176