

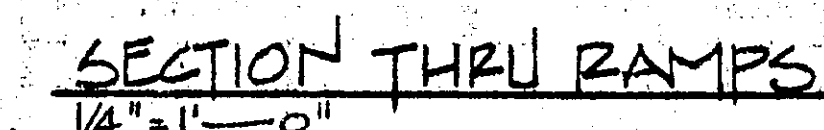
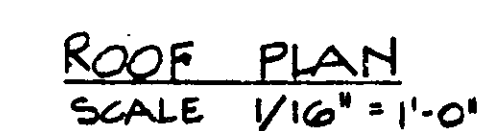
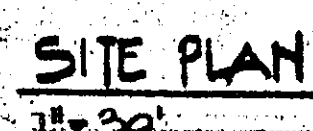
SAINT PAUL, MINNESOTA

- A-1. SITE PLAN
- A-2. FLOOR PLANS
- A-3. ELEVATIONS
- A-4. DETAILS

S-1 LOWER LEVEL AND FOOTINGS
S-2 UPPER LEVEL AND BEAMS
S-3 DETAILS

M 1 PLUMBING PLANS
M 2 MECHANICAL PLANS
M 3 MECHANICAL DETAILS

- E1 SITE PLAN
- E2 LIGHTING PLAN
- E3 POWER AND SIGNAL
- E4 SCHEDULE AND DETAILS



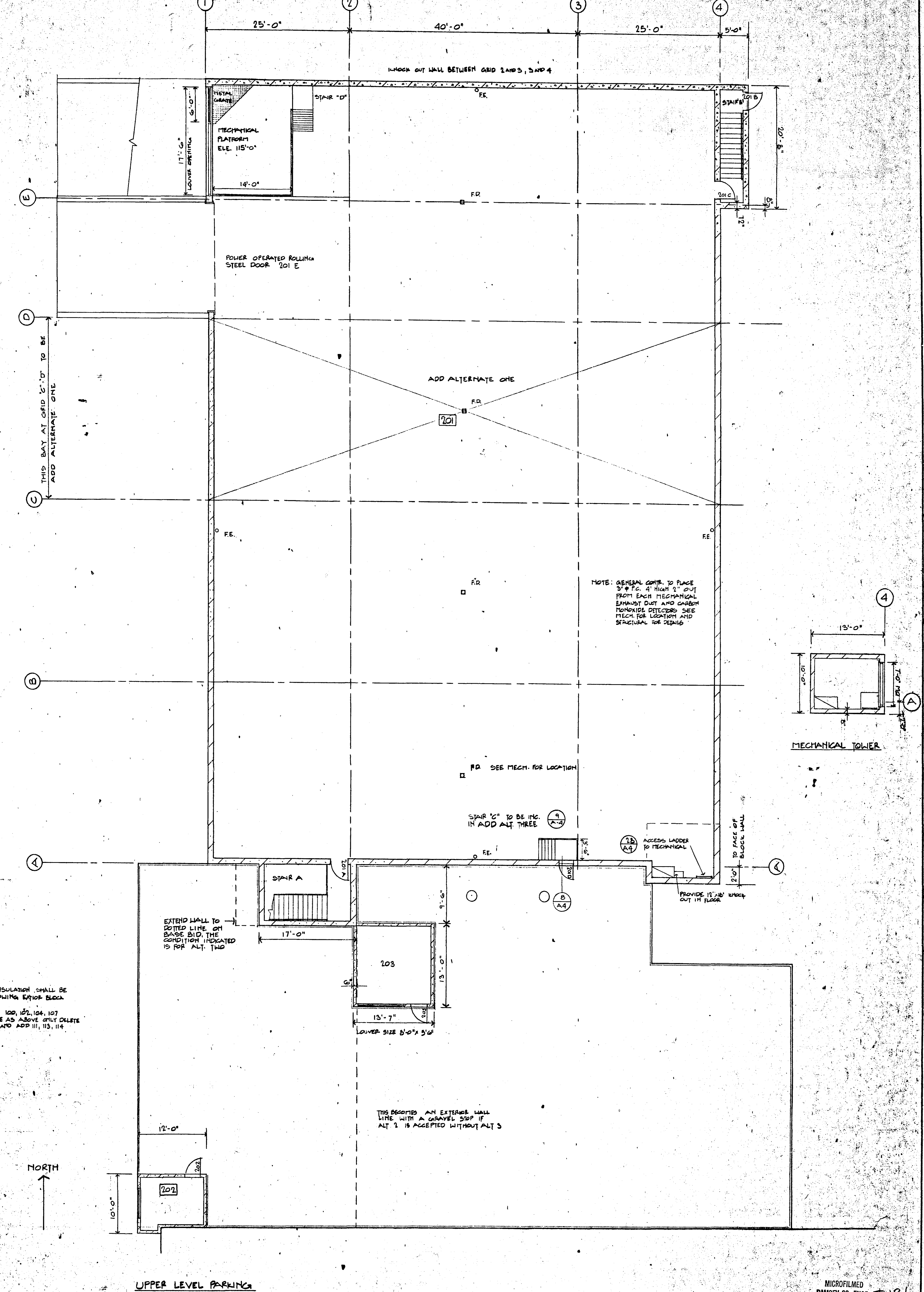
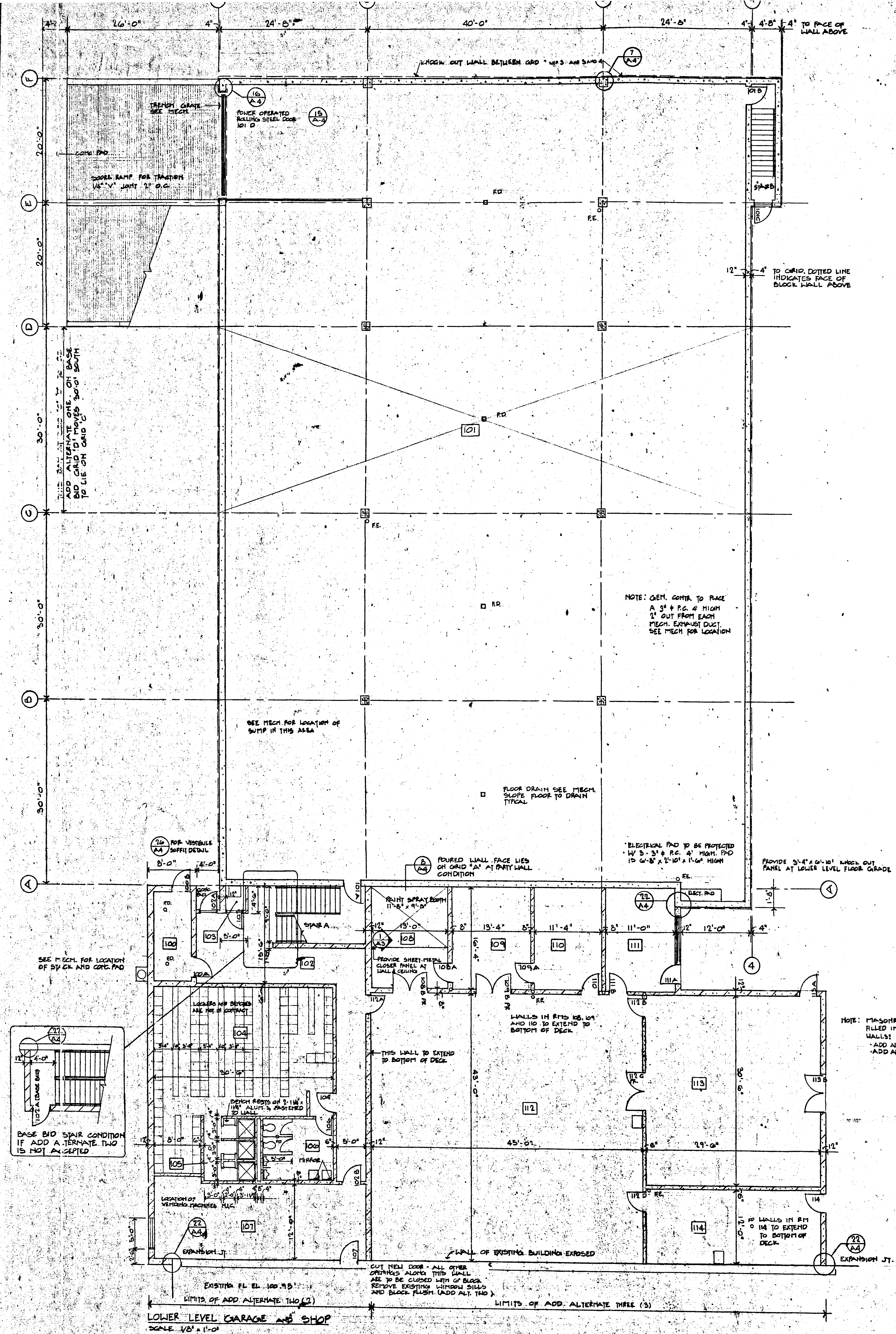
MICROFILMED
RAMSEY CO. ENGR. T-136

PROJECT NUMBER
608-9
DATE 22 MAY 69
DRAWN TLO
CHECKED

SITE PLAN

THE CERNY ASSOCIATES INC
ARCHITECTURE ■ ENGINEERING ■ PLANNING
MAIN OFFICES • MINNEAPOLIS AND SAINT PAUL, MINNESOTA

A-1



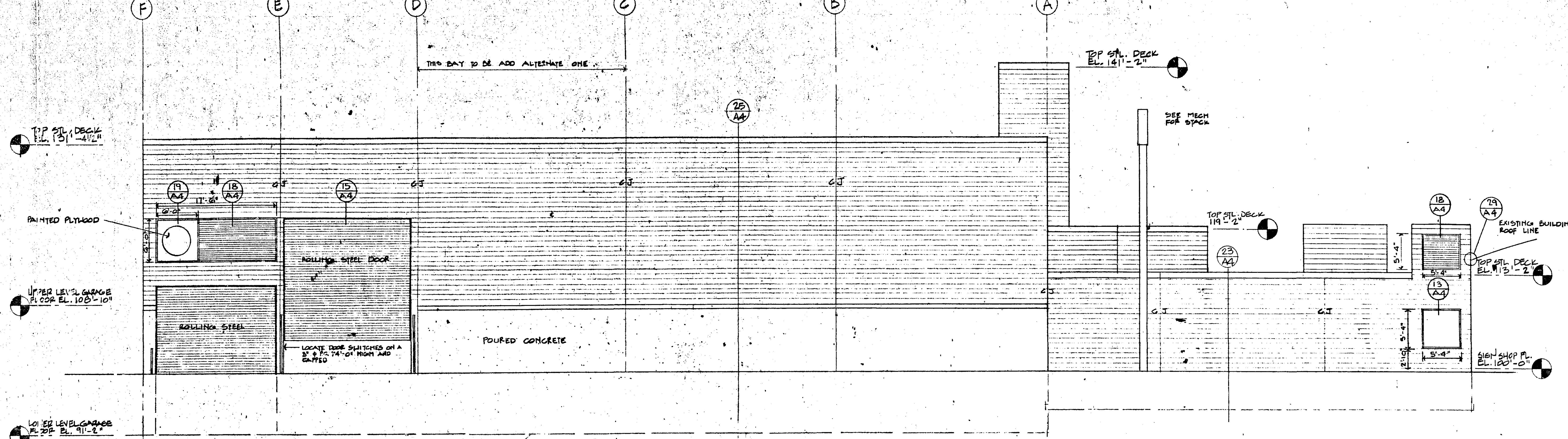
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT OR ENGINEER UNDER THE LAWS OF THE STATE OF MINN.

DATE: 10/1/78
 DRAWN BY: J. F. FARLEY
 CHECKED: J. F. FARLEY

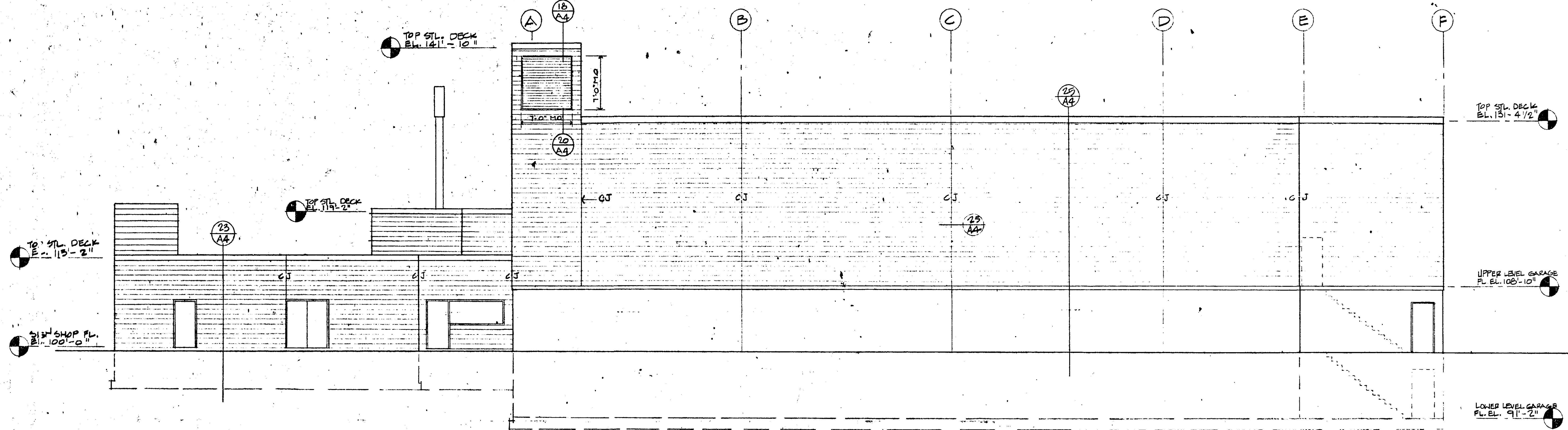
RAMSEY COUNTY HIGHWAY TRUCK PARKING ADDITION AND SIGN SHOP

FLOOR PLANS

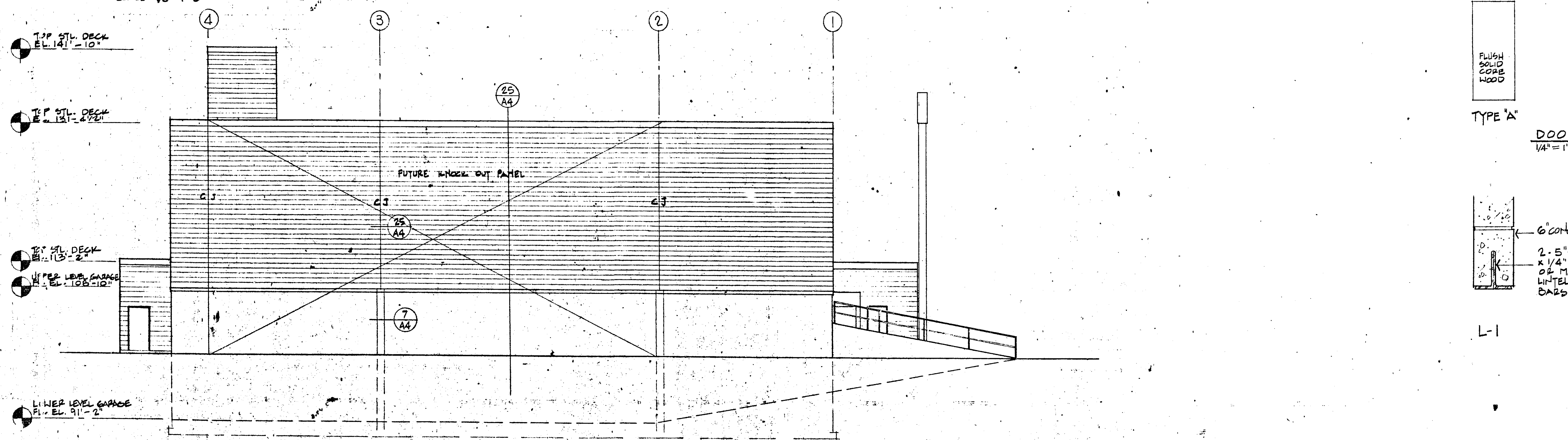
THE CERNY ASSOCIATES INC
 ARCHITECTURE • ENGINEERING • PLANNING
 MAIN OFFICES • MINNEAPOLIS AND SAINT PAUL, MINNESOTA



WEST ELEVATION
SCALE 1/8" = 1'-0"



EAST ELEVATION
SCALE 1/8" = 1'-0"

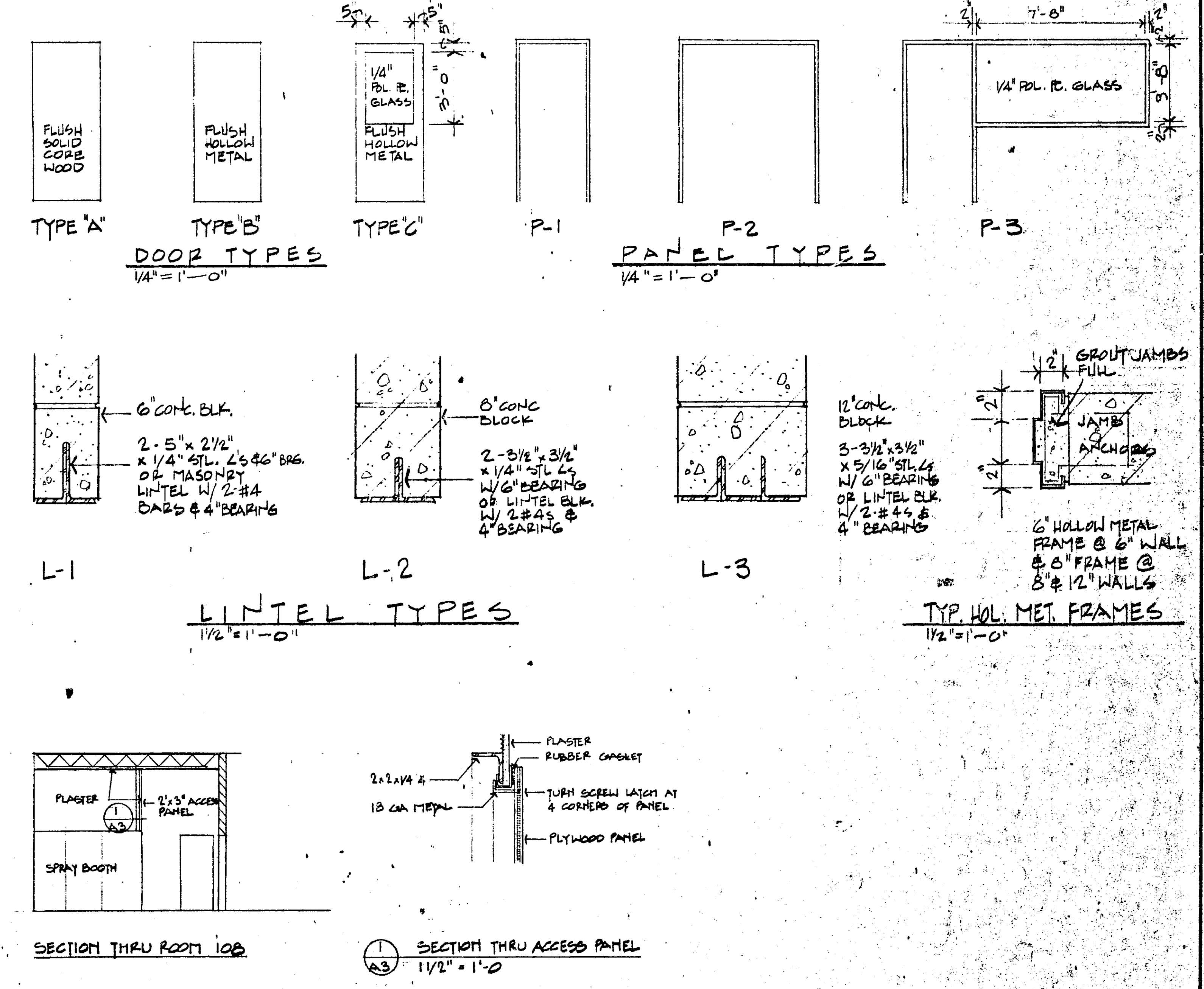


NORTH ELEVATION
SCALE 1/8" = 1'-0"

ROOM NO.	ROOM NAME	FLOOR	WALLS	CEILING	CLG. H.T.	REMARKS
100	MECHANICAL	NONE	CONC.	PAINT	8'-0"	
101	GARAGE	NONE	CONC.	EXPOSED	8'-0"	
102	CORRIDOR	VINYL	VAT	PAINT	LAY-IN	
103	JANITOR	NONE	CONC.	PAINT	NONE	
104	LOCKER ROOM	VINYL	VAT	EPOXY PT.	LAY-IN	
105	SHOWER	VINYL	VAT	EPOXY PT.	LAY-IN	
106	TOILET	VINYL	VAT	EPOXY PT.	LAY-IN	
107	DRIVERS ROOM	VINYL	VAT	PAINT	LAY-IN	
108	PAINT ROOM	NONE	CONC.	PAINT	PLASTER	
109	DRYING ROOM	NONE	CONC.	PAINT	PLASTER	
110	PAINT STORAGE	NONE	CONC.	PAINT	PLASTER	
111	OFFICE	VINYL	VAT	PAINT	LAY-IN	
112	SHOP	NONE	CONC.	PAINT	NONE	
113	SIGN & SIGNALS	NONE	CONC.	PAINT	NONE	
114	SIGN REPAIR	NONE	CONC.	PAINT	NONE	
201	STAIR A	NONE	CONC.	PAINT	NONE	
202	STAIR B	NONE	CONC.	EXPOSED	NONE	
203	GARAGE	NONE	CONC.	EXPOSED	NONE	
204	PENTHOUSE	NONE	CONC.	EXPOSED	NONE	

NOTE: PAINT ALL GTP CO. CEILINGS OR EXPOSED STEEL STRUCTURES

DOOR NO.	DOOR SIZE	TYPE	PANEL TYPE	FRAME TYPE	LINTEL TYPE	HARDWARE NO.	GRILLE OR UNDERCUT	REMARKS
100A	3'-0" x 6'-8" x 1 3/4"	B	P-1	8"	L-3	7		
100B	3'-0" x 6'-8" x 1 3/4"	B	P-1	8"	L-2	7		B LABEL
101A	3'-0" x 6'-8" x 1 3/4"	B	P-1	8"	L-3	4		B LABEL
101B	3'-0" x 6'-8" x 1 3/4"	B	P-1	8"	L-3	4		
101C	3'-0" x 6'-8" x 1 3/4"	B	P-1	8"	L-3	1		
101D	16'-0" M.O. HIGH x 17'-6" WIDE M.O.	ROLLING STEEL DOOR						
102A	3'-0" x 6'-8" x 1 3/4"	C	P-1	8"	L-3	15		
102B	3'-0" x 6'-8" x 1 3/4"	A	P-1	8"	L-3	5		PLASTIC FACED
103	2'-8" x 6'-8" x 1 3/4"	A	P-1	6"	L-1	14		
104	2'-8" x 6'-8" x 1 3/4"	A	P-1	6"	L-1	5		PLASTIC FACED
106	2'-8" x 6'-8" x 1 3/4"	A	P-1	6"	L-1	5	24" x 12"	PLASTIC FACED
107	3'-0" x 6'-8" x 1 3/4"	B	P-1	8"	L-3	5		B LABEL
108A	3'-0" x 6'-8" x 1 3/4"	B	P-1	8"	L-2	8		B LABEL
108B	2'-8" x 6'-8" x 1 3/4"	B	P-2	8"	L-2	10		B LABEL
109A	3'-0" x 6'-8" x 1 3/4"	B	P-1	8"	L-2	8		B LABEL
109B	2'-8" x 6'-8" x 1 3/4"	B	P-2	8"	L-2	10		B LABEL
110	3'-0" x 6'-8" x 1 3/4"	B	P-1	8"	L-2	7		B LABEL
111A	3'-0" x 6'-8" x 1 3/4"	B	P-3	8"	L-3	12		
111B	3'-0" x 6'-8" x 1 3/4"	A	P-1	6"	L-1	6		
112A	3'-0" x 6'-8" x 1 3/4"	A	P-1	8"	L-3	6		
112B	3'-0" x 6'-8" x 1 3/4"	A	P-1	6"	L-1	6		
112C	2'-8" x 6'-8" x 1 3/4"	A	P-2	6"	L-1	9		
112D	3'-0" x 6'-8" x 1 3/4"	A	P-1	6"	L-1	6		
113A	3'-0" x 6'-8" x 1 3/4"	C	P-1	8"	L-3	2		
113B	2'-8" x 6'-8" x 1 3/4"	B	P-2	8"	L-3	11		
114	3'-0" x 6'-8" x 1 3/4"	B	P-1	8"	L-3	13		
201A	3'-0" x 6'-8" x 1 3/4"	B	P-1	8"	L-3	4		B LABEL
201B	3'-0" x 6'-8" x 1 3/4"	B	P-1	8"	L-3	2		
201C	3'-0" x 6'-8" x 1 3/4"	B	P-1	8"	L-3	4		
201D	3'-0" x 6'-8" x 1 3/4"	B	P-1	8"	L-3	3		
201E	16'-4" M.O. HIGH x 18'-6" M.O.	ROLLING STEEL DOOR						
202	3'-0" x 6'-8" x 1 3/4"	B	P-1	6"	L-1	3		
203	3'-0" x 6'-8" x 1 3/4"	B	P-1	6"	L-1	3		



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 DATE 27 MAY 69
 DRAWN BY
 CHECKED
 PROJECT NUMBER
 108-9
 DATE 27 MAY 69
 REG. NO. 5105

RAMSEY COUNTY HIGHWAY TRUCK PARKING ADDITION AND SIGN SHOP

ELEVATIONS AND SCHEDULE

THE CERNY ASSOCIATES INC
 ARCHITECTURE • ENGINEERING • PLANNING
 MAIN OFFICES • MINNEAPOLIS AND SAINT PAUL, MINNESOTA

A-3

MICROFILMED
 RAMSEY CO. ENGR.
 T-136

27 ROOF SCUPPER
A-4 1 1/2" = 1'-0"

4 ROOF EQUIPMENT CURB
A-4 1 1/2" = 1'-0"

7 COL. CONTROL JTS.
A-4

11 ROOF FACIA
A-4 1 1/2" = 1'-0"

17 ROOF CONTRACTION JOINT
A-4 1 1/2" = 1'-0"

21 EXPANSION JOINT
A-4 1 1/2" = 1'-0"

24 JOIST BEARING & FLASHING DETAIL
A-4 1 1/2" = 1'-0"

26 SOFFIT PANEL AT VESTIBULE
A-4 1 1/2" = 1'-0"

28 STL LADDER
A-4 3" = 1'-0"

8 SECTION @ ROOF ACCESS DOOR
A-4 1 1/2" = 1'-0"

12 WINDOW HEAD DETAIL
A-4 1 1/2" = 1'-0"

18 LOUVER HEAD DETAIL
A-4 1 1/2" = 1'-0"

22 WALL EXPANSION JOINT
A-4 1 1/2" = 1'-0"

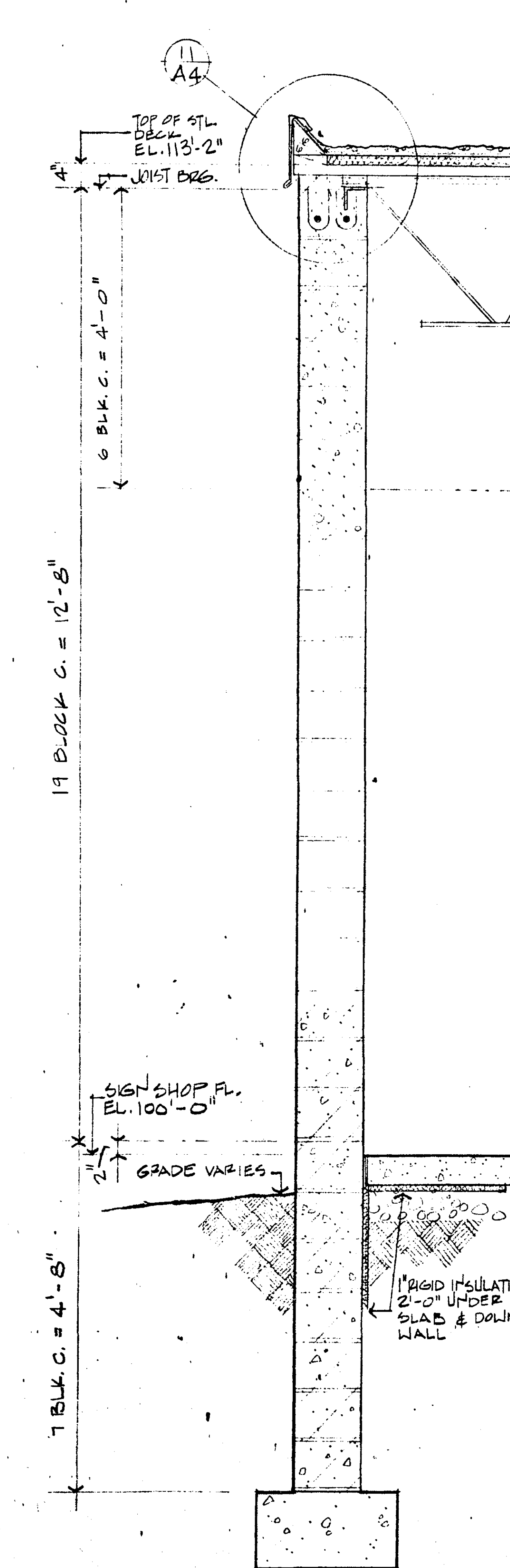
29 EXP. JT. @ EXISTING ROOF
A-4

13 WINDOW JAMB DETAIL
A-4 1 1/2" = 1'-0"

19 LOUVER JAMB DETAIL
A-4 1 1/2" = 1'-0"

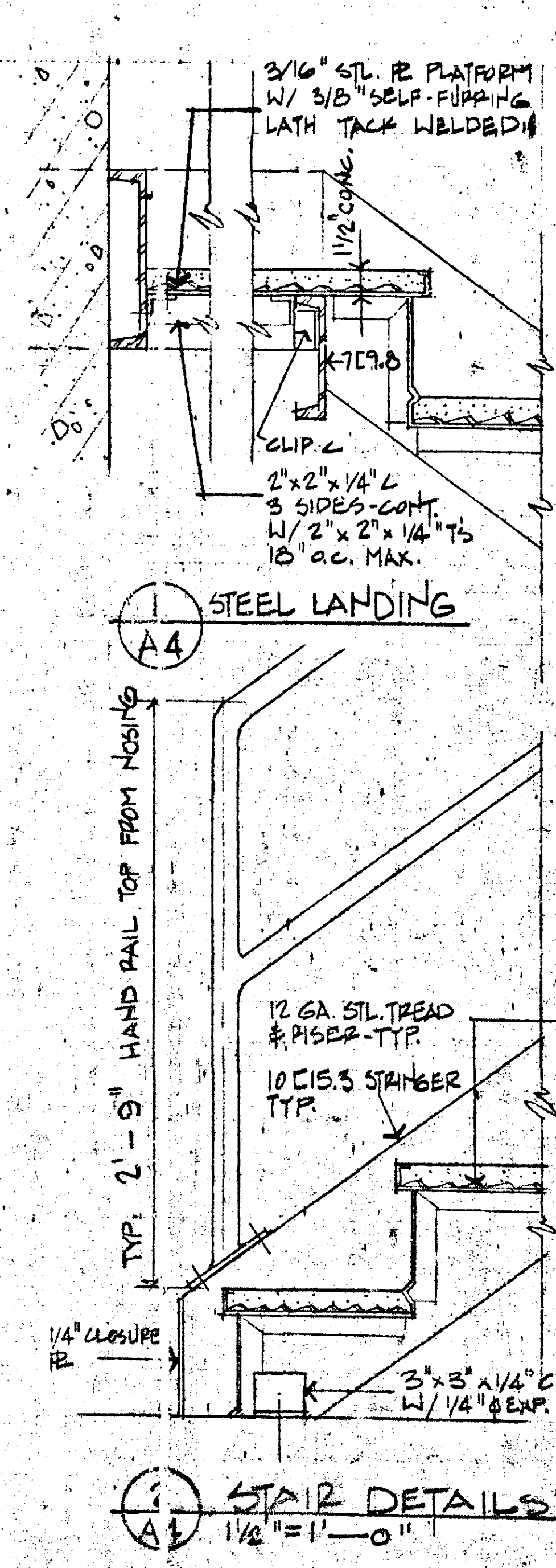
14 SILL DETAIL
A-4 1 1/2" = 1'-0"

20 LOUVER SILL DETAIL
A-4 1 1/2" = 1'-0"



23 TYPICAL EXTERIOR WALL @ SHOP
A-4 3/4" = 1'-0"

25 TYPICAL EXTERIOR WALL @ GARAGE
A-4 3/4" = 1'-0"



1 STAIR DETAILS
A-4 1 1/2" = 1'-0"

5 STAIR HANDRAIL
A-4 3" = 1'-0"

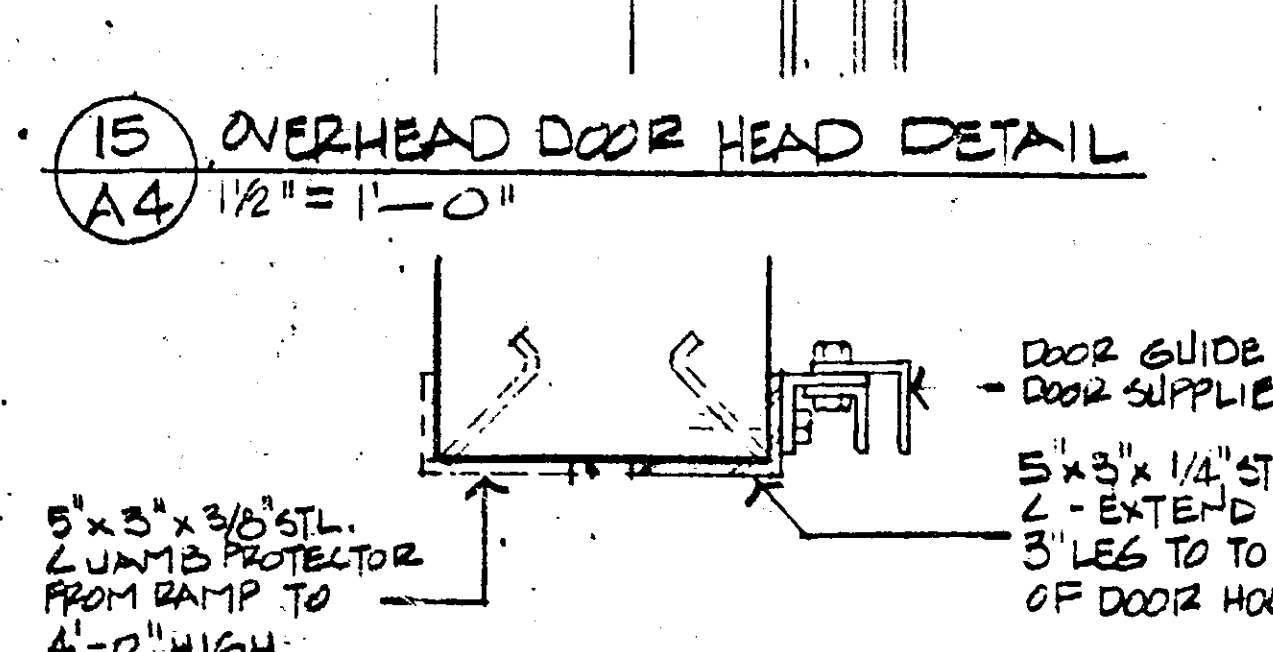
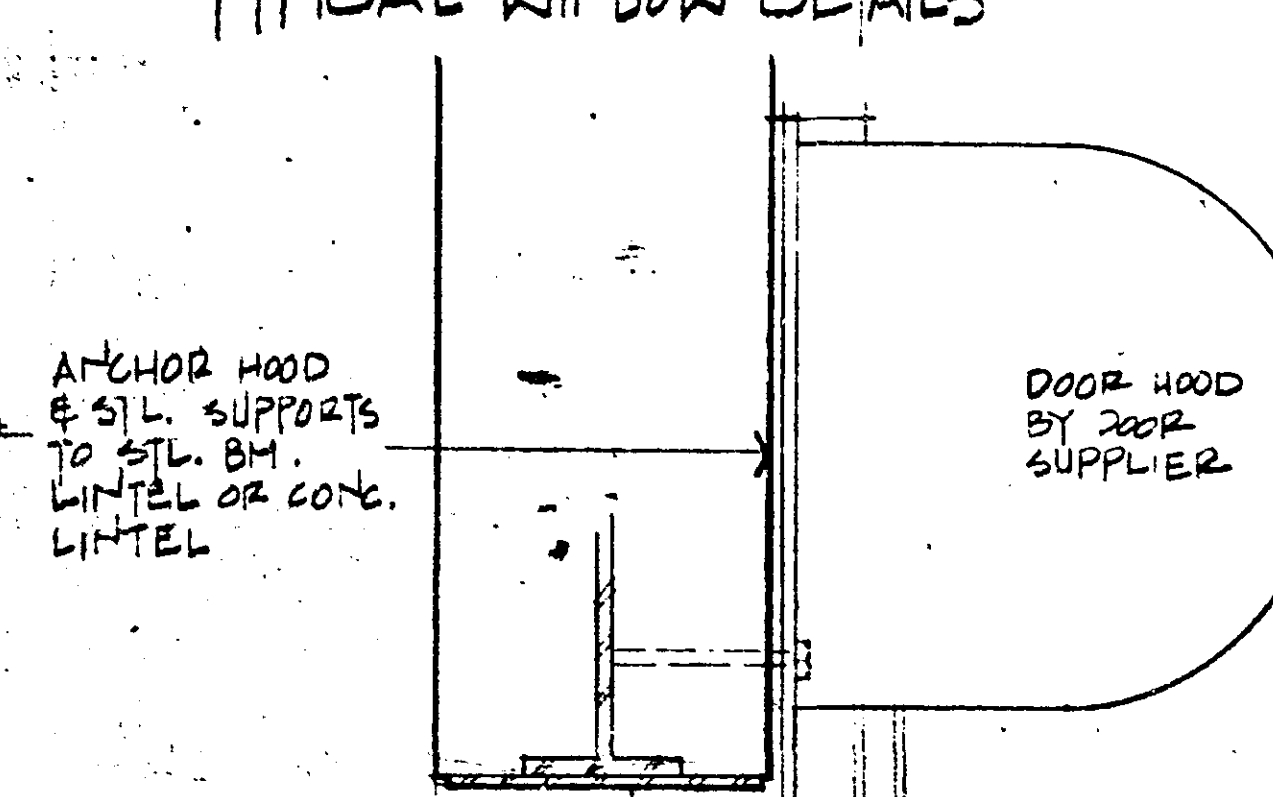
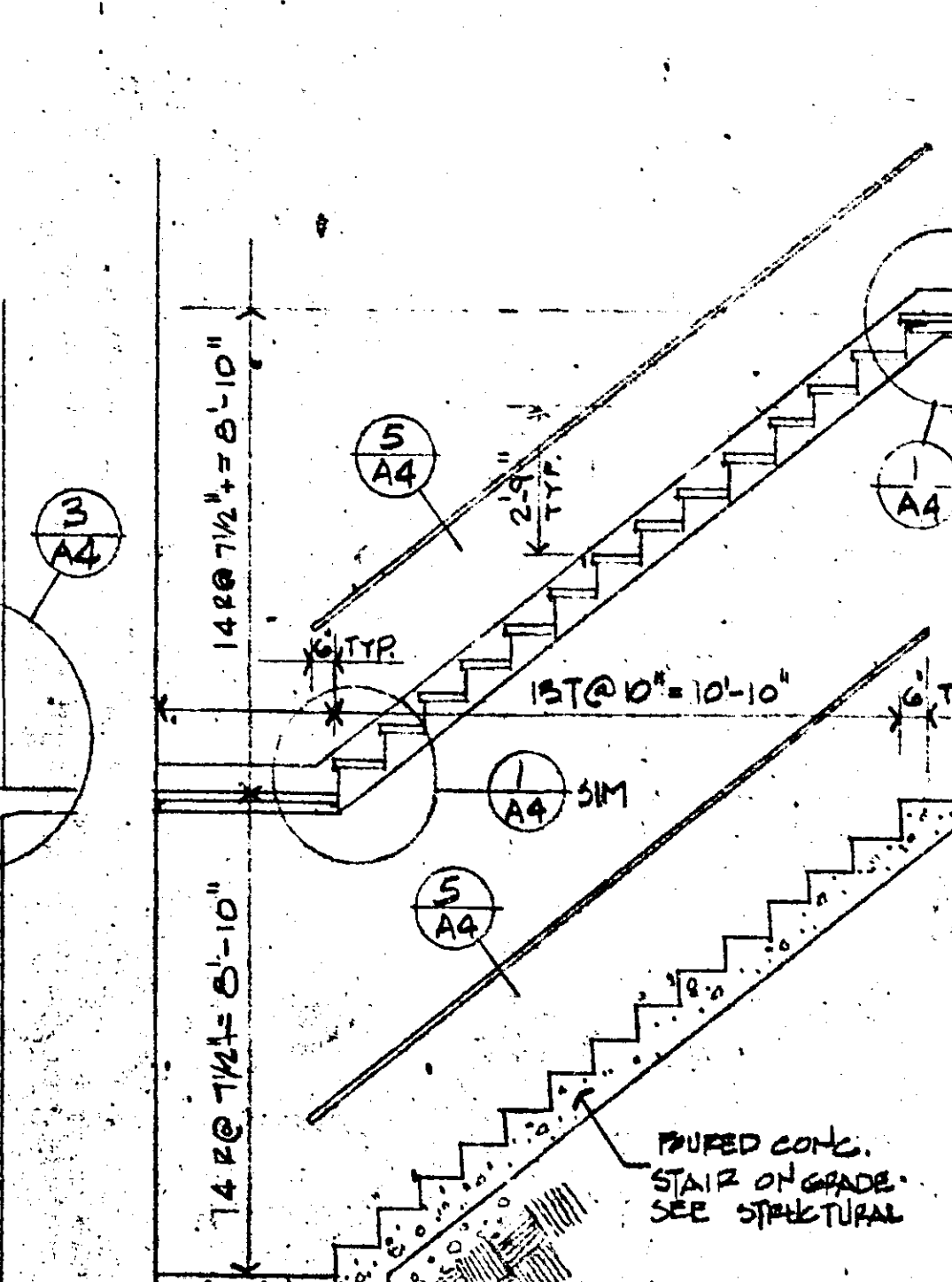
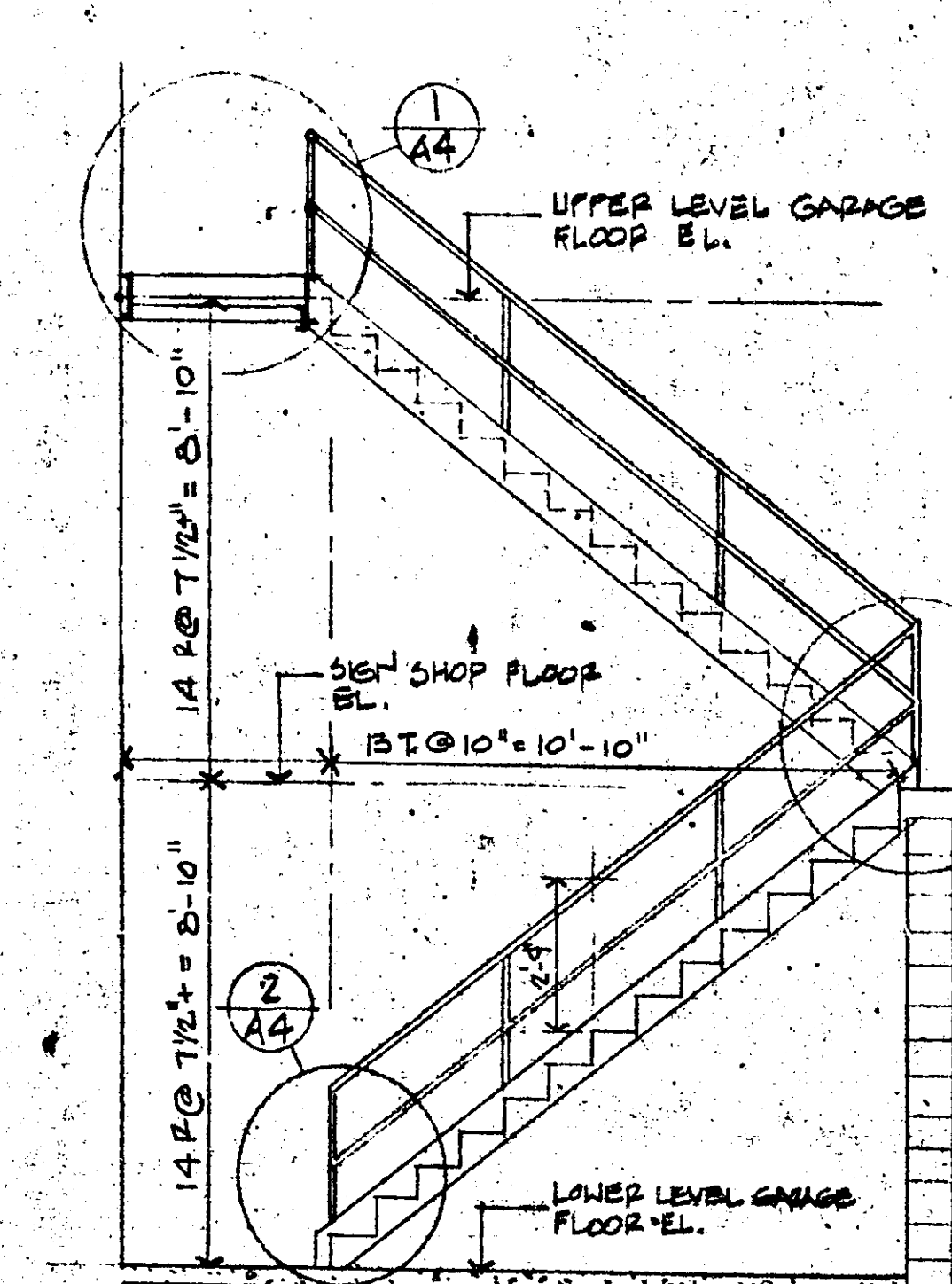
9 SHIPS LADDER
A-4 3/4" = 1'-0"

6 STAIR "A" SECTION
A-4 1 1/2" = 1'-0"

10 STAIR "B" SECTION
A-4 1 1/2" = 1'-0"

15 OVERHEAD DOOR HEAD DETAIL
A-4 1 1/2" = 1'-0"

16 OVERHEAD DOOR JAMB DETAIL
A-4 1 1/2" = 1'-0"



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DATE 11 MAY 69
DRAWN BY J. T. J. REG. NO. 2103
CHECKED

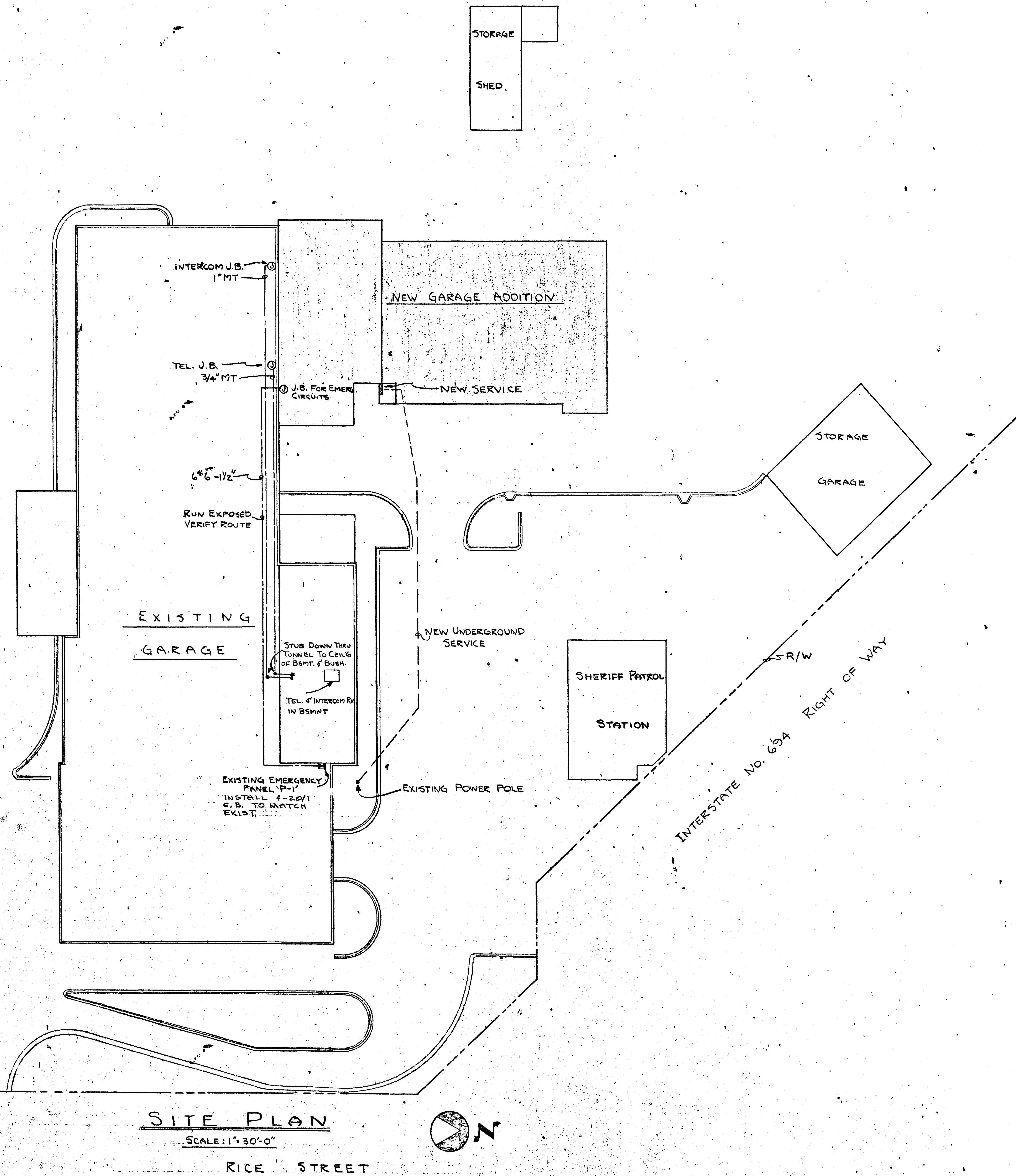
PROJECT NUMBER
62-9
DATE 11 MAY 69
DRAWN BY J. T. J. REG. NO. 2103
CHECKED

RAMSEY COUNTY HIGHWAY TRUCK PARKING ADDITION AND SIGN SHOP

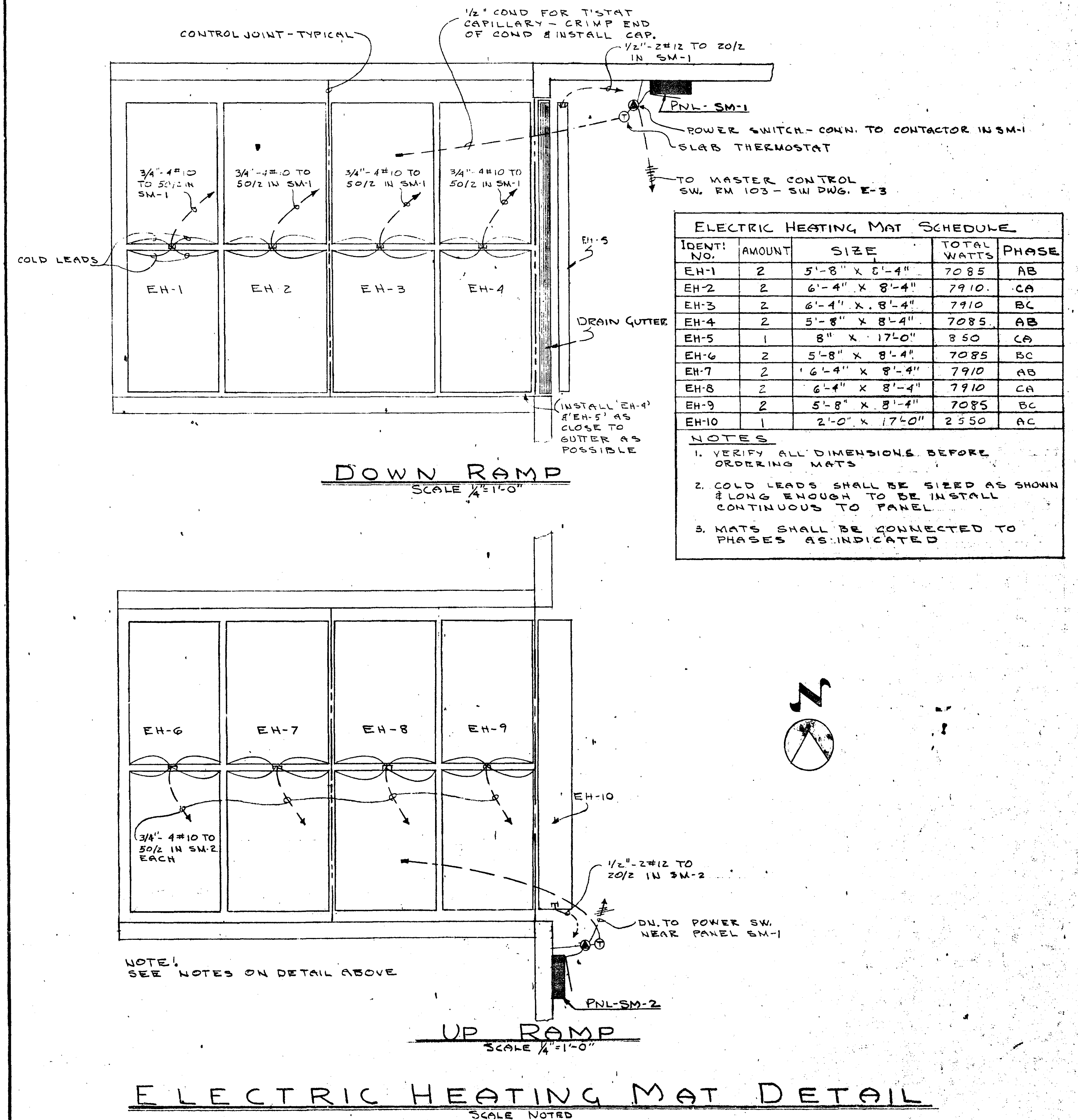
DETAILS

THE CERNY ASSOCIATES INC
ARCHITECTURE • ENGINEERING • PLANNING
MAIN OFFICES • MINNEAPOLIS AND SAINT PAUL, MINNESOTA

A-4



SITE PLAN
SCALE: 1"=30'-0"



ELECTRIC HEATING MAT DETAIL
SCALE NOTED

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT OR ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
DATE 5-23-69
DRAWN W.E.L.
CHECKED W.G.D.
REG. NO. 4901

PROJECT NUMBER
68-3(4-920)
DATE 5-23-69
DRAWN W.E.L.
CHECKED W.G.D.

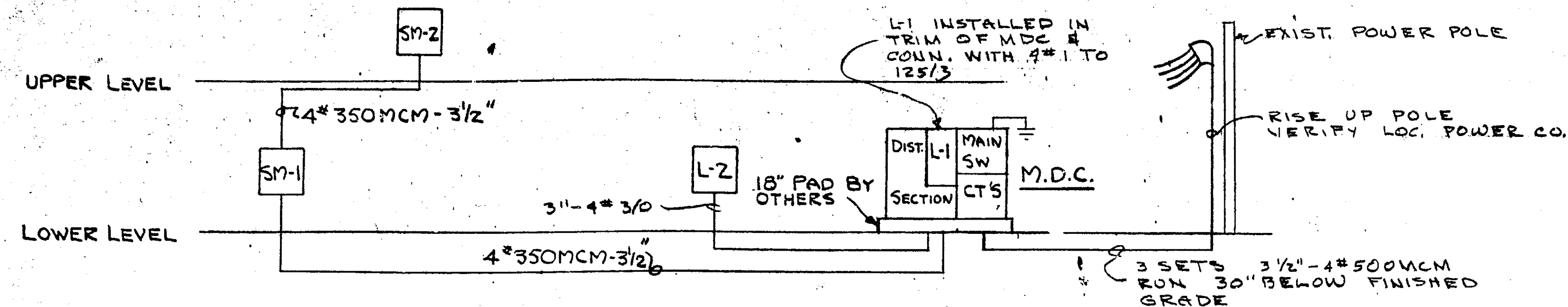
INTERTEC, INC.
CONSULTING ENGINEERS
MINNEAPOLIS
BISMARCK
RAPID CITY
SIOUX FALLS

RAMSEY COUNTY HIGHWAY TRUCK PARKING ADDITION & SIGN SHOP
3377 RICE STREET
ST. PAUL, MINN.

SITE PLAN

THE CERNY ASSOCIATES INC
ARCHITECTURE ■ ENGINEERING ■ PLANNING
MAIN OFFICES • MINNEAPOLIS AND SAINT PAUL, MINNESOTA

E-1



DISTRIBUTION RISER DIAGRAM-NO SCALE

Panel Ident	Mounting	Bus Rating Amps Volt	Dranches Total Size	Remarks
L-1	In MDC	225 208 3	4 32 20/1	
L-2	Surface	225 208 3	4 25 20/1 1 20/3 1 60/3 1 100/3	
SM-1	Surface	400 208 3	4 50/2 1 20/2	Provide 1-2P Space -- Provide 300A/3P (120V Controlled) Contractor Controlling entire panel
SM-2	SURFACE	400 208 3	4 50/2 1 20/2	Provide 1-2P Space -- Provide 300A/3P (120V Controlled) Contractor Controlling entire panel

DISTRIBUTION SECTION	
FOR	SIZE
L-1	125/3
L-2	200/3
SM-1 & SM-2	300/3
MOT. #1 & 3	20/3
MOT. #2	30/3
2-MOT. #22	20/3
MOT. #17	50/3
MOT. #5	30/3
MOT. #21	20/3
SPACE	2-20/3
SPACE	2-200/3

STARTER & MOTOR NO.	DRIVEN EQUIPMENT	MOTOR H.P.	VOLTAGE & PHASE	MOTOR LOCATION	CONTROL	CONTROL LOCATION	STARTER SIZE	STARTER LOCATION	DISC. SIZE & TYPE
1	FURN. BLOW (F-1)	1 1/2	208/3	PENT	(1)	202	0	202	30A-3P-NF
2	FURN. BLOW (F-2)	3	208/3	PENT	Inter. W. 20 (1)	203	0	203	30A-4P-F
3	FURN. BURN (F-1)	1/6	120/1	PENT	(1)	202	---	---	MMS
4	FURN. BURN (F-2)	1/6	120/1	PENT	Inter. W. 20 (1)	203	---	---	MMS
5	EXH. FAN (EF-1)	5	208/3	ABOVE 201	(4)	101	1 WITH 120V 201	ABOVE 201	30A-4P-F
6	EXH. FAN (EF-2)	1/6	120/1	ROOF 106	TIME SW (2)	112	---	---	MMS (3)
7	EXH. FAN (EF-3)	1/6	120/1	ROOF 107	MMS/P	112	---	---	WP SW ON HOUSING
8	EXH. FAN (EF-4)	1/6	120/1	ROOF 107	MMS/P	107	---	---	TOGGLE SW. (3)
9	EXH. FAN (EF-5)	1/12	120/1	ROOF 110	MMS/P	112	---	---	WP SW. ON HOUSING
10	EXH. FAN (EF-6)	1/6	120/1	ROOF 106	TIME SW (2)	112	---	---	MMS (3)
11	EXH. FAN (EF-7)	1/6	120/1	ROOF 107	MMS/P	114	---	---	TOGGLE SW. (3)
12	EXH. FAN (EF-8)	1/6	120/1	ROOF 114	MMS/P	114	---	---	TOGGLE SW. (3)
13	UNIT. HTR. (UH-1)	1/45	120/1	108, 109 116	THERMOSTAT	112	---	---	MMS ADJACENT TO THERMOSTAT
14	UNIT. HTR. (UH-2)	1/8	120/1	113	THERMOSTAT	113	---	---	MMS ADJACENT TO THERMOSTAT
15	UNIT. HTR. (UH-3)	1/20	120/1	112, 114	THERMOSTAT	112	---	---	MMS ADJACENT TO THERMOSTAT
16	CAB. U.H. (UH-4)	1.3A	120/1	102	THERMOSTAT	102	---	---	MMS (3)
17	DIRECT FIR. FURN. BLOWER (DE-1)	10	208/3	PLATFORM 201	(5)	---	2	PLATFORM 201	60A-3P-F
18	SUMP PUMP	1/2	120/1	101	FLOAT SW.	101-PIT	NONE	---	MMS
19	CIRCULATING PUMP (CP-1)	1/3	120/1	100	REMOTE BULB THERMOSTAT	100	---	---	MMS
20	SPRAY BOOTH EXH. FAN	1 1/2	208/3	108	NS WITH PB/P 112	---	0	108	30A-3P-NF
21	AIR COMPRESSOR	1	208/3	101	(6)	---	---	---	30A-3P-F
22	GARAGE DOORS (2)	1	208/3	101, 102	(7)	---	---	---	30A-3P-NF

NUMBERS IN PARENTHESES IN PRECEDING SCHEDULE AS FOLLOWS:

- (1) CONNECT PREWIRED CONTROL PANEL, DUCT STAT. AND MOTORIZED DAMPER AND TIME SW. RM 112. WIRE IN ACCORDANCE TO MANUFACTURER'S WIRING DIAGRAM.
- (2) TIME CLOCK FURNISHED BY MECHANICAL CONTRACTOR BUT INSTALLED BY ELECTRICAL.
- (3) INSTALL DISCONNECT INSIDE UNIT HOUSING
- (4) NS WITH PB/P IN COVER. INTERLOCK CO₂ DETECTORS WITH STARTER
- (5) CONNECT UNIT AND REMOTE CONTROL PANEL. INTERLOCK STARTER WITH STARTER MOTOR #5
- (6) UNIT PROVIDED AND CONNECTED BY OWNER. PROVIDE DISC. HOME RUN AND 3/4" MT COND. FROM STARTER MOTOR #20 TO LOCATION ALONGSIDE DISC. FOR INTERLOCK
- (7) STARTER AND PB FURNISHED BY OTHERS. CONNECT AS REQUIRED. CONNECT LIMIT SWITCH AND SAFE EDGE AS REQUIRED.

ALL THERMOSTATS AND ADJUSTERS FURNISHED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL THERMOSTAT AND CONNECT THERMOSTATS AND ADJUSTERS. ELECTRICAL CONTRACTOR TO INSTALL ALL SLEEVES FOR REMOTE BULB THERMOSTATS.

MMS = MANUAL MOTOR SWITCH WITH OVERLOAD PROTECTION

INTER. W. = INTERLOCKED WITH MOTOR NO.

N.F. = NON-FUSED
F = FUSED
MS = MAGNETIC STARTER
PB = STOP-START PUSH BUTTON
/P = WITH PILOT LIGHT

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
○	INCANDESCENT FIXTURE OUTLET	CLG.
○	FIXTURE OUTLET ON WALL	
□	FLUORESCENT FIXTURE OUTLET	
⊗	EXIT LIGHT OUTLET	CLG.
⊗	EXIT LIGHT OUTLET ON WALL	7'-6"
⊗	PILOT LIGHT	
⊗	SHADED OUTLET ON EMERGENCY CIRCUIT	
⊗	JUNCTION BOX	
⊗	TYPICAL OUTLET DESIGNATION: WATTAGE OTHER THAN SPECIFIED FIXTURE TYPE CIRCUIT NUMBER SWITCHING	
⊗	DUPLX RECEPTACLE	1'-0"
⊗	FLOOR RECEPTACLE	
⊗	SINGLE POLE SWITCH	4'-0"
⊗	THREE WAY SWITCH	4'-0"
⊗	FOUR-WAY SWITCH	4'-0"
⊗	SWITCH WITH PILOT LIGHT	4'-0"
⊗	SWITCH WITH RECEPTACLE COMBINATION	4'-0"
---	CONDUIT CONCEALED IN CEILING OR WALLS	
---	CONDUIT CONCEALED IN FLOOR OR BELOW	
---	EXPOSED CONDUIT	
---	CONDUIT UP (OPEN CIRCLE)	
---	CONDUIT DOWN (SOLID CIRCLE)	
---	HASH MARKS INDICATE AMOUNT OF #12 CONDUIT-TOPS. IF NO MARKS, 1/2"-2 #12 UNLESS INDICATED OTHERWISE.	
---	3/4"-WT DENOTES EMPTY CONDUIT RUN (SIZE AS INDICATED)	
AC	ABOVE COUNTER	VERIFY
WP	WEATHER PROOF	24"
□	LIGHTING PANEL	TOP 6'
□	POWER OR DISTRIBUTION PANEL	TOP 6'
⊗	MOTOR OR EQUIPMENT, #1 - IDENTIFICATION NO.	
⊗	CONTROLLER OR STARTER	
⊗	DISCONNECT OR SAFETY SWITCH	4'-0"
⊗	COMBINATION STARTER AND DISCONNECT SWITCH	4'-0"
⊗	PUSH BUTTON MOTOR CONTROL STATION	4'-0"
⊗	TRANSFORMER	
⊗	ELECTRIC THERMOSTAT	4'-6"
⊗	CLOCK	7'-6"
⊗	TELEPHONE OUTLET	1'-0"
⊗	INTERCOM OUTLET	1'-0"
⊗	CEILING SPEAKER	
⊗	CALL-BACK SWITCH-SOUND SYSTEM	5'-0"

NOTE: MOUNTING HEIGHTS GIVEN ARE STANDARD; WHERE DIMENSIONAL NUMBER IS SHOWN AT OUTLET SYMBOL, THIS SHALL BE THE MOUNTING HEIGHT. MOUNTING HEIGHTS ARE TO CENTER OF OUTLET UNLESS NOTED.

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT OR ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE 5-23-67
DRAWN BY J.M.
CHECKED BY G.M.
REG. NO. 4901

PROJECT NUMBER 68-3 (4-6320)
DATE 5-23-67
DRAWN BY J.M.
CHECKED BY G.M.

INTERTEC, INC.
CONSULTING ENGINEERS
MINNEAPOLIS
BISMARCK

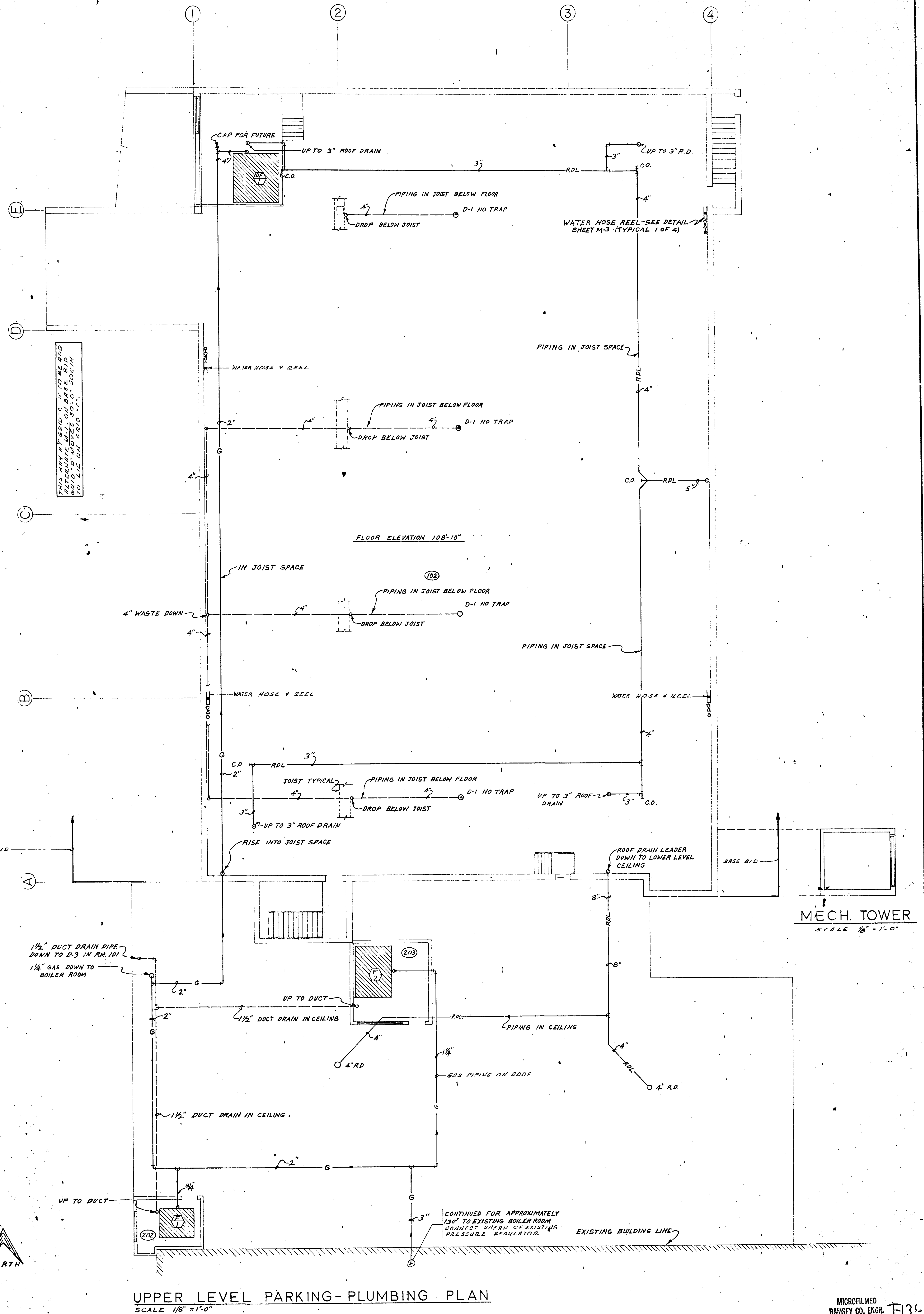
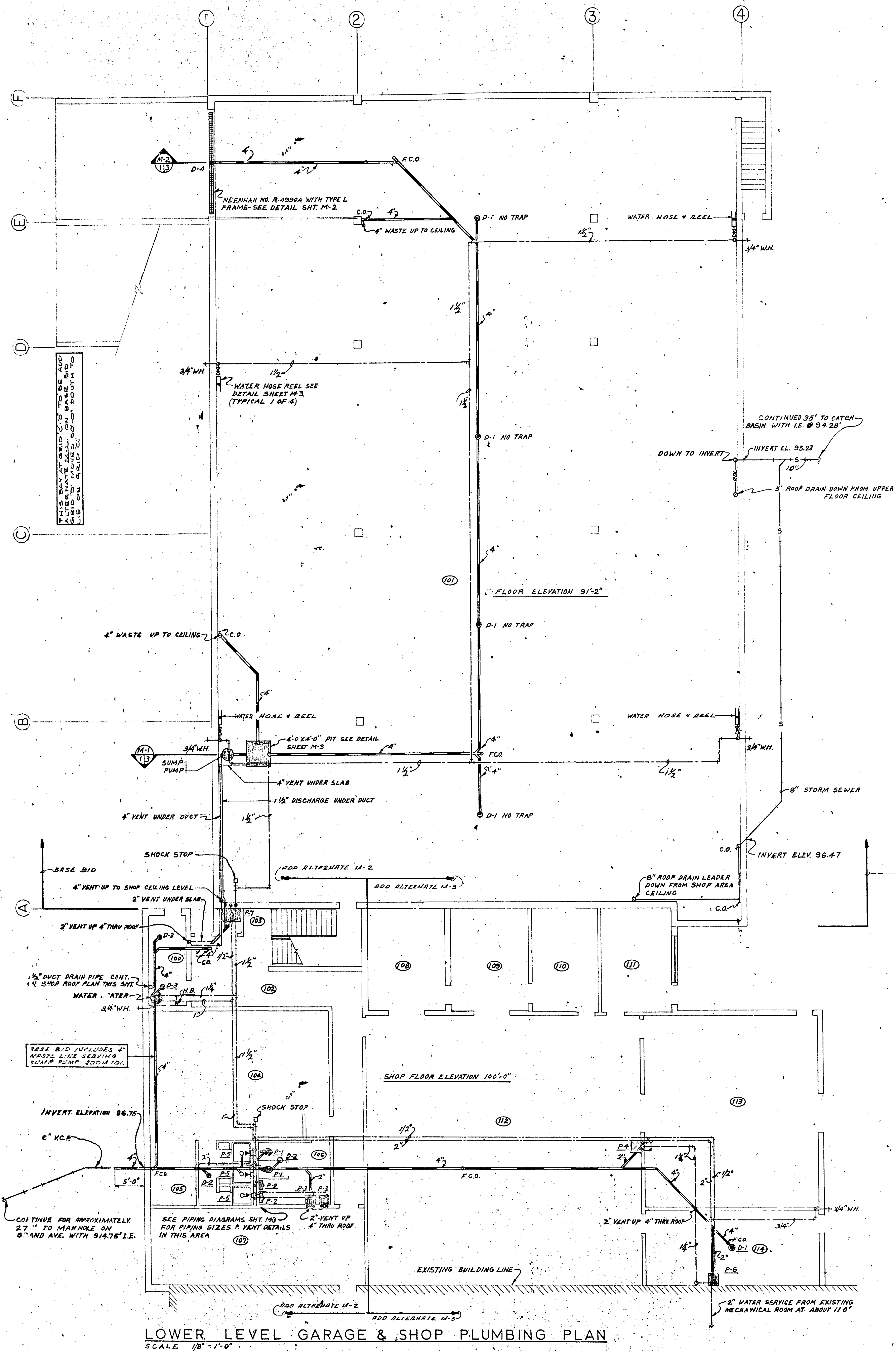
RAPID CITY
SIOUX FALLS

RAMSEY COUNTY HIGHWAY TRUCK PARKING ADDITION & SIGN SHOP
3377 RICE STREET
ST. PAUL, MINN.

SCHEDULES AND DETAILS

THE CERNY ASSOCIATES INC
ARCHITECTURE • ENGINEERING • PLANNING
MINNEAPOLIS, MINNESOTA

E-4



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT OR ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
DATE MAY 23, 1969
F.S.G. NO. 1001

PROJECT NUMBER
68-9 (4-6920)
DATE
DRAWN R.H.
CHECKED

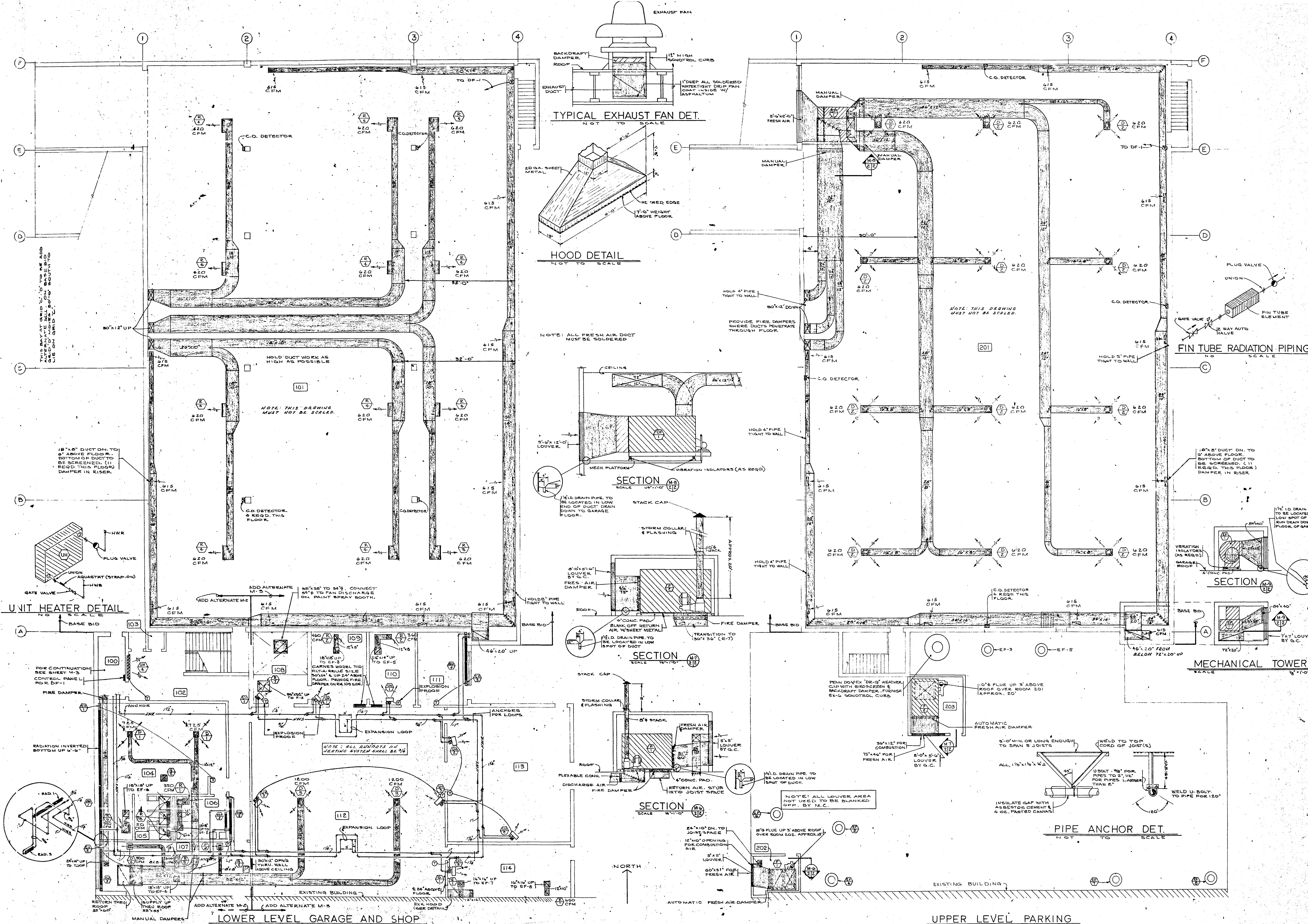
INTERTEC, INC.
CONSULTING ENGINEERS
MINNEAPOLIS
RAPID CITY

RAMSEY COUNTY HIGHWAY TRUCK PARKING ADDITION & SIGN SHOP

PLUMBING PLAN

THE CERNY ASSOCIATES INC
ARCHITECTURE • ENGINEERING • PLANNING
MAIN OFFICES • MINNEAPOLIS AND SAINT PAUL, MINNESOTA

M-1



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT OR ENGINEER UNDER THE LAWS OF THE STATE OF MINN. 5074

PROJECT NUMBER: 58-9 (2-6920)
 DATE: MAY 23, 1969
 DRAWN BY: R.H.
 CHECKED BY: G.D.

INTERTEC, INC.
 CONSULTING ENGINEERS

MINNEAPOLIS
 RAPID CITY
 SIOUX FALLS

RAMSEY COUNTY HIGHWAY TRUCK PARKING ADDITION & SIGN SHOP

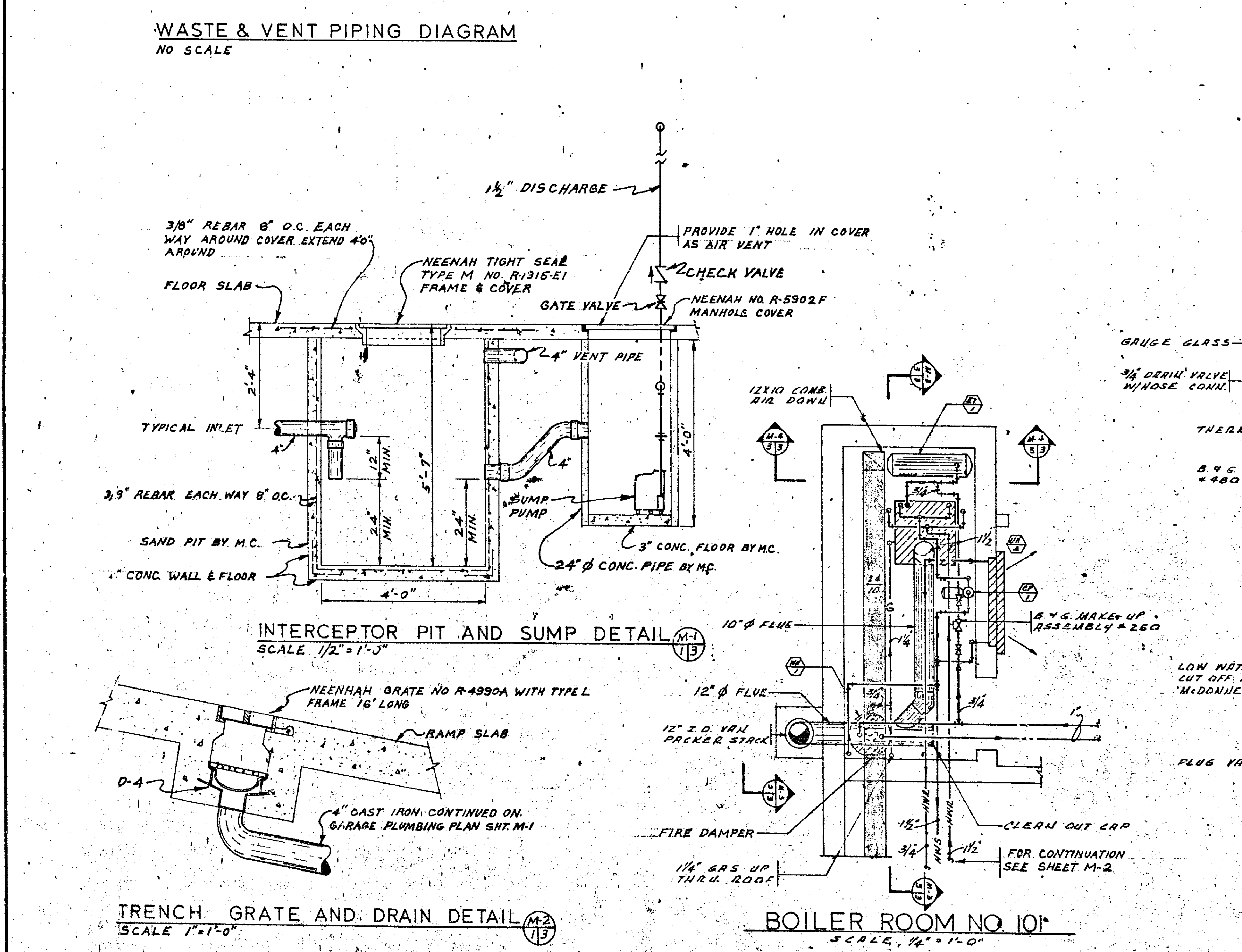
3377 RICE STREET
 ST. PAUL, MINN.

HEATING AND VENTILATING PLAN

THE CERNY ASSOCIATES INC
 ARCHITECTURE ■ ENGINEERING ■ PLANNING

MAIN OFFICES - MINNEAPOLIS AND SAINT PAUL, MINNESOTA

M-2



FURNACE SCHEDULE																
DESIG.	TYPE	FUEL	NET OUTPUT @ BONNET	CFM	TOTAL S. P.	FURNER		HEAT EXCHANGER	POWER			BURNER		BLOWER		MFG. NO.
						TYPE	V		PH	HZ	HP	RPM	HP	RPM		
F-1	NATURAL GAS	688 CFH	550,000	4,450	3/4"	RIGHT HAND	POWER	STAINLESS STEEL	208	3	60	1/6	--	1-1/2	677	TIERNLUND #100 STYLE "D" UNIT WITH #150 THREE STAGE BURNER, ELECTRONIC IGNITION FRESH AND RETURN AIR DAMPERS, PERM. FILTERS
F-2	NATURAL GAS	1410 CFH	1,128,000	10,900	3/4"	RIGHT HAND	POWER	STAINLESS STEEL	208	3	60	1/6	--	3	597	TIERNLUND #200 STYLE "D" UNIT WITH #340 THREE STAGE BURNER, ELECTRONIC IGNITION FRESH AIR DAMPER, PERMANENT FILTERS

BOILER AND BURNER SCHEDULE													
SECTIONS	NET OUTPUT I.B.R.	WATER TEMP.	BOILER				BURNER				MFG. NO.		
			TYPE	BOILER BASE	CODE DESIGN	INSULATION	TYPE	CAPACITY	GAS INPUT	POWER V FH HZ			
7	270.1 MBH	210°	SECTIONAL CAST IRON	FURNISH	50 PSI	STEEL WITH FIBERGLASS	CAST IRON WITH DRILLED PORTS	450.0 MBH	450 CPH	120	1	60	AMERICAN STANDARD #G-4 COMPLETE WITH CONTROL

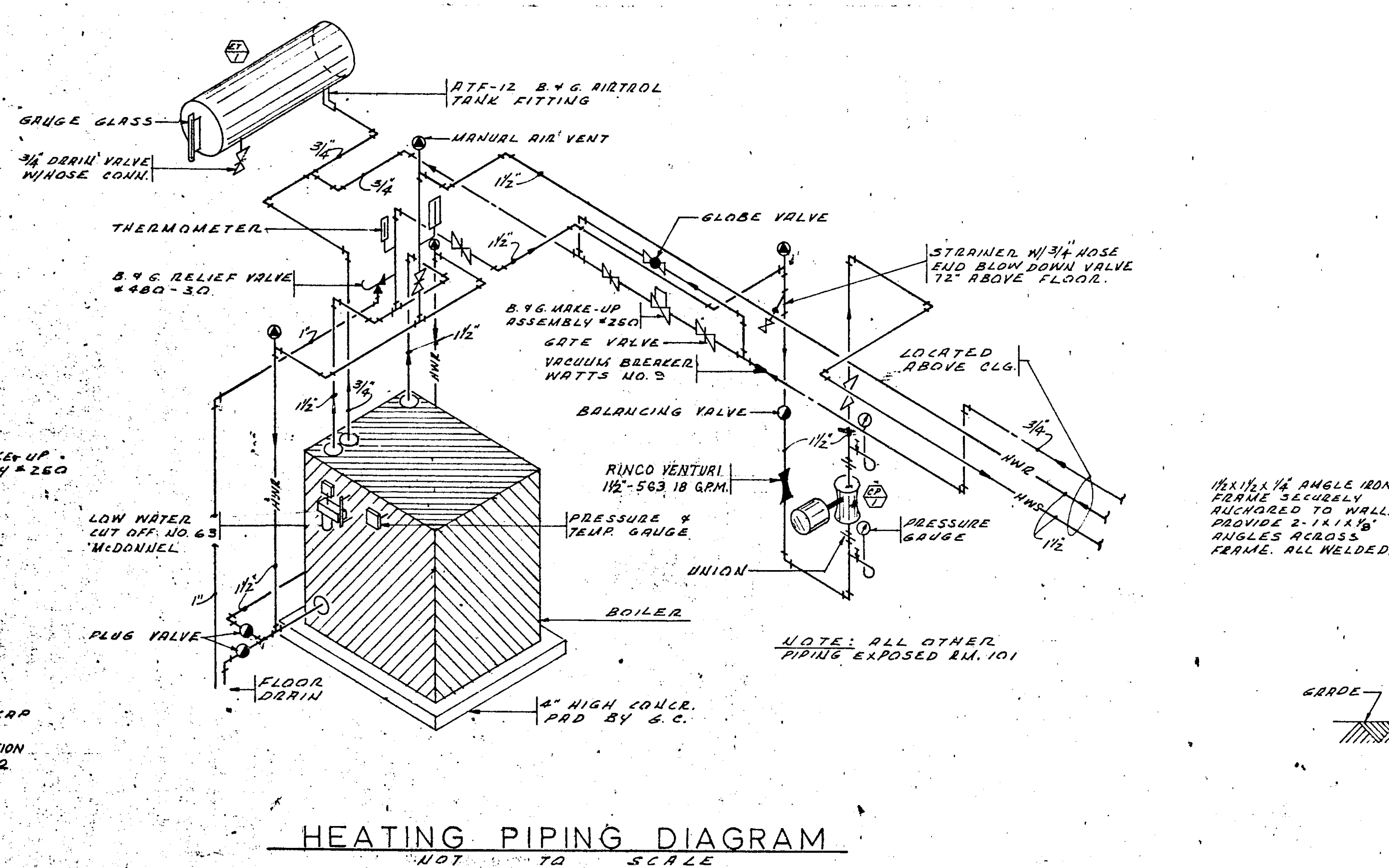
EXHAUST FAN SCHEDULE													
DESIG.	TYPE	CFM	STATIC PRESS	MAX TIP SPEED	POWER			MOTOR		BACKDRAFT DAMPER	STARTER	MFG. NO.	CURB
					V	PH	HZ	HP	RPM				
EF-1	BELT DRIVE UTILITY BELT DRIVE CENTRIFUGAL ROOF EXHAUSTER	13,500	1"	6380	208	3	60	5	737	FURNISH	BY E.C.	TRAN. NO. 33 BT FAN WITH TOP HORIZONTAL DISCHARGE	---
EF-2		500	3/8"	3205	120	1	60	1/6	815	FURNISH	BY E.C.	PENN DOMEX #BB-45	12" HIGH SONOTRON
EF-3	BELT DRIVE CENTRIFUGAL ROOF EXHAUSTER	460	3/8"	3065	120	1	60	1/6	780	FURNISH	BY E.C.	PENN DOMEX #BB-45, WITH SPARK PROOF WHEEL AND HOOD, EXPLOSION PROOF MOTOR	12" HIGH SONOTRON
EF-4	BELT DRIVE CENTRIFUGAL ROOF EXHAUSTER	600	1/4"	2790	120	1	60	1/6	710	FURNISH	BY E.C.	PENN DOMEX #BB-45	12" HIGH SONOTRON
EF-5	DIRECT DRIVE CENTRIFUGAL ROOF EXHAUSTER	360	1/4"	3285	120	1	60	1/12	1140	FURNISH	BY E.C.	PENN DOMEX #AT-10 WITH SPARK PROOF WHEEL AND HOOD, EXPLOSION PROOF MOTOR	12" HIGH SONOTRON
EF-6	BELT DRIVE CENTRIFUGAL ROOF EXHAUSTER	860	1/4"	3205	120	1	60	1/6	815	FURNISH	BY E.C.	PENN DOMEX #BB-45	12" HIGH SONOTRON
EF-7	BELT DRIVE CENTRIFUGAL ROOF EXHAUSTER	955	3/8"	3755	120	1	60	1/6	955	FURNISH	BY E.C.	PENN DOMEX #BB-45	12" HIGH SONOTRON
EF-8	BELT DRIVE CENTRIFUGAL ROOF EXHAUSTER	600	1/4"	2790	120	1	60	1/6	710	FURNISH	BY E.C.	PENN DOMEX #BB-45	12" HIGH SONOTRON

UNIT HEATER SCHEDULE													
DESIG.	TYPE	CAPACITY	ENT. WATER TEMP.	WATER TEMP. DROP	FAN CFM	FILTER	POWER			MOTOR		RECESS DEPTH	MFG. NO.
							V	PH	HZ	HP	RPM		
UH-1	HORIZONTAL UNIT HEATER	8.6 MBH	210°	15°	315	--	120	1	60	1/45	1050	--	TRANE #20-SF
UH-2	HORIZONTAL UNIT HEATER	35.5 MBH	210°	30°	1109	--	120	1	60	1/8	1550	--	TRANE #70-S
UH-3	HORIZONTAL UNIT HEATER	30.0 MBH	210°	30°	815	--	120	1	60	1/20	1550	--	TRANE #60-S
UH-4	FORCE FLO CABINET HEATER	33.5 MBH	210°	30°	400	FURNISH PERMANENT	120	1	60	1.3 AMPS	1050	4-1/4"	TRANE #60 MODEL M WITH 2 SPEED SHAFT POLE MOTOR, REWIND

DIRECT FIRED FURNACE SCHEDULE													
DESIG.	FUEL		NET OUTPUT @ BONNET	CFM	TOTAL S. P.	BURNER TYPE	HEAT EXCHANGER	POWER			BLOWER		MFG. NO.
	TYPE	FIRING RATE						V	PH	HZ	HP	RPM	
DF-1	NATURAL GAS	3,360 CFH	2,360,000	14,900	1"	MAXON PFE-MY	STAINLESS STEEL	200	3	60	10	11	HASTINGS MODEL LB-161 WITH VERTICAL DISCHARGE AND CONTROL SIGN

PIN TUBE RADIATION SCHEDULE (H ₂ O IN = 210°, H ₂ O OUT = 180°, EA. = 65°)											
SESG.	TOTAL MBH	ROWS	ELEMENT LENGTH EA. ROW	COVER LENGTH	ELEMENT TYPE	COVER TYPE & HEIGHT	COVER GAUGE	ACCESSORIES	FINISH	MFG. NO.	
RAD. 1	3.7	1	28.0'	31.0'	1-1/4" C-60	S - 12"	16	--	PRIMED COAT	TRANS 16", BOTTOM U	6"-6" COVER INVERTED
RAD. 2	3.1	1	3.0'	5.0'	1-1/4" S-40	S - 12"	16	DAMPER AND END COVERS	PRIMED COAT	TRANS SLOPING TOP 12"	
RAD. 3	17.5	1	8.0'	11.0'	1-1/4" C-60	S - 16"	16	--	PRIMED COAT	TRANS SLOPING TOP 16"	
RAD. 4	18.1	1	10.0'	12.0'	1-1/4" S-50	S - 16"	16	END PANEL DAMPER AND	PRIMED COAT	TRANS SLOPING TOP 16"	
RAD. 5	7.8	1	7.0'	10.0'	1" C-55	S - 10"	16	--	PRIMED COAT	TRANS SLOPING TOP 10"	

REGISTER AND GRILLE SCHEDULE					
DESIG.	TYPE	SIZE	QUADRANT DAMPER	MFG. NO.	REMARKS
D-1	CEILING DIFFUSER	20" X 20"	FURNISH	TITUS TCSX WITH FRAME STYLE 1B, 4-WAY BLOW	OFF WHITE BAKED ENAMEL FINISH
D-2	CEILING DIFFUSER	16" ROUND	--	TITUS T-1	BAKED ALUMINUM ENAMEL FINISH
D-3	CEILING DIFFUSER	14" ROUND	--	TITUS T-1	BAKED ALUMINUM ENAMEL FINISH
D-4	CEILING DIFFUSER	16" X 16"	FURNISH	TITUS MODEL TCSX WITH FRAME STYLE 1B, 3-WAY BLOW	OFF WHITE BAKED ENAMEL FINISH
R-1	CEILING REGISTER	12" X 12"	FURNISH	TITUS RL-30 WITH 45° DEFLECTION	BAKED ALUMINUM ENAMEL FINISH
R-2	CEILING REGISTER	16" X 16"	--	TITUS RL-30 WITH 45° DEFLECTION	BAKED ALUMINUM ENAMEL FINISH
R-3	CEILING REGISTER	6" X 6"	FURNISH	TITUS RL-30 WITH 45° DEFLECTION	OFF WHITE BAKED ENAMEL FINISH
R-4	SIDEWALL REGISTER	20" X 10"	FURNISH	TITUS RL-30 WITH 45° DEFLECTION	BAKED ALUMINUM ENAMEL FINISH
R-5	CEILING REGISTER	16" X 16"	--	TITUS RL-30 WITH 45° DEFLECTION	BAKED ALUMINUM ENAMEL FINISH
R-6	CEILING REGISTER	18" X 18"	--	TITUS RL-30 WITH 45° DEFLECTION	OFF WHITE BAKED ENAMEL FINISH
R-7	CEILING REGISTER	36" X 9 3/8"	--	TITUS RL-30 WITH 0° DEFLECTION	BAKED ALUMINUM ENAMEL FINISH
G-1	SIDEWALL GRILLE	36" X 20"	--	TITUS RR-30 WITH 45° DEFLECTION	BAKED ALUMINUM ENAMEL FINISH
G-2	CEILING GRILLE	18" X 18"	--	TITUS RL-30 WITH 45° DEFLECTION	OFF WHITE BAKED ENAMEL FINISH



CONTROL VALVE SCHEDULE						
DESIG.	TYPE	SIZE	MEDIUM	FLOW GPM	MAX. AP	MIN. CV
CV-1	N.O. TWO WAY MODULATING	1/2"	WATER	2.5	4	1.6
CV-2	N.O. TWO WAY MODULATING	1/2"	WATER	1.2	4	0.63
CV-3	N.O. TWO WAY MODULATING	1/2"	WATER	1.3	4	0.73

WATER HEATER SCHEDULE				
* TYPE	STORAGE	RECOVERY @ 100° RISE	INPUT BTU	MFG. NO.
STORAGE GAS FIRED	75 GAL.	63 GAL.	75,500	RUUD GAS MODEL GL75-75

*FURNISH GAS REGULATOR CAPABLE OF HANDLING 1 1/2 POUNDS PSI.

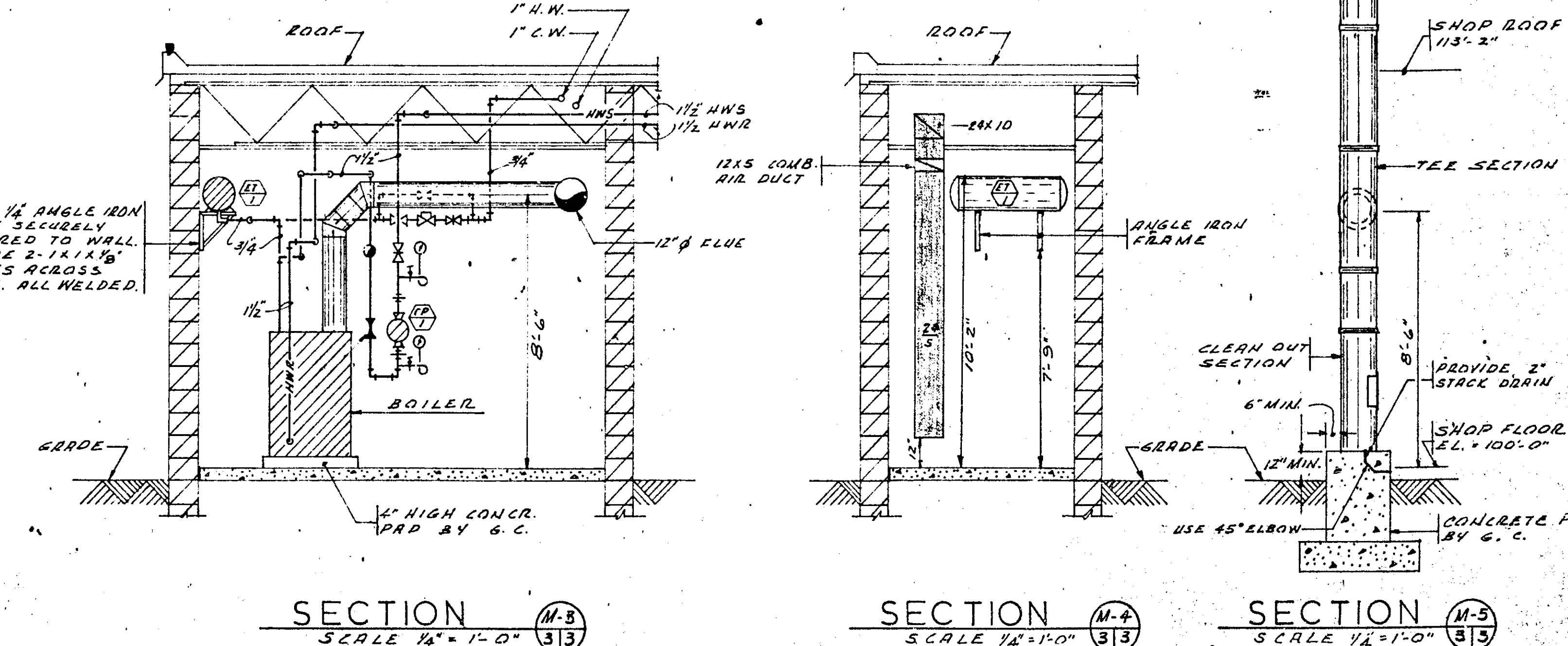
LEGEND			
	VITREOUS CLAY PIPE		CHECK VALVE
	UNDERGROUND WASTE		UNION
	ABOVE GROUND WASTE		AUTO VALVE
	VENT LINE		RELIEF VALVE
	DOMESTIC COLD WATER		PRESSURE GAUGE
	DOMESTIC HOT WATER		FLOW INDICATOR
	ROOF DRAIN LEADER		THERMOSTAT
	HOT WATER SUPPLY		THERMOMETER
	HOT WATER RETURN		AIR VENT
	GAS LINE		STRAINER
	FLOOR CLEANOUT		DUCTWORK
	CLEANOUT		SPLITTER DAMPER
	GATE VALVE		TURNING VANES
	GATE VALVE ON RISER		W.H. WALL HYDRANT
	GLOBE VALVE		H.B. HOSE BIBB
	PLUG VALVE		

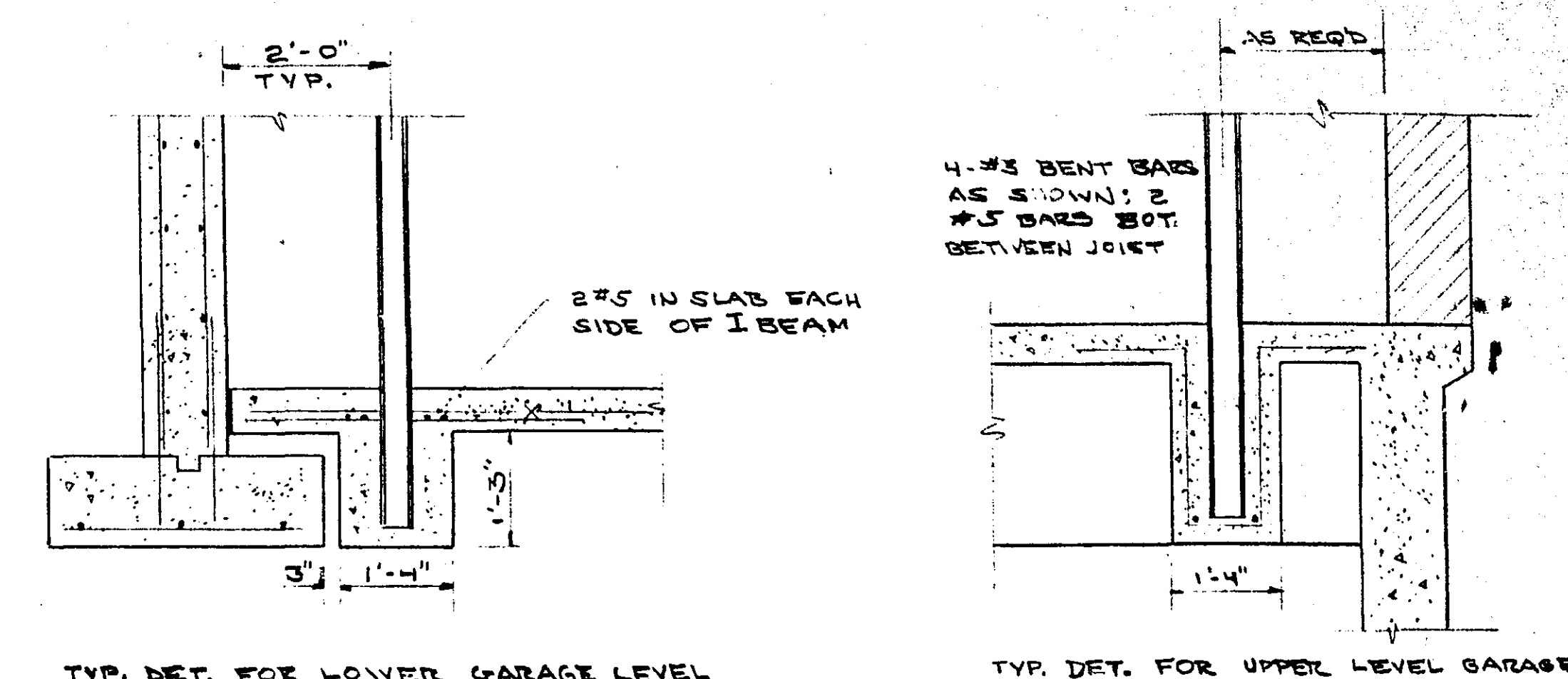
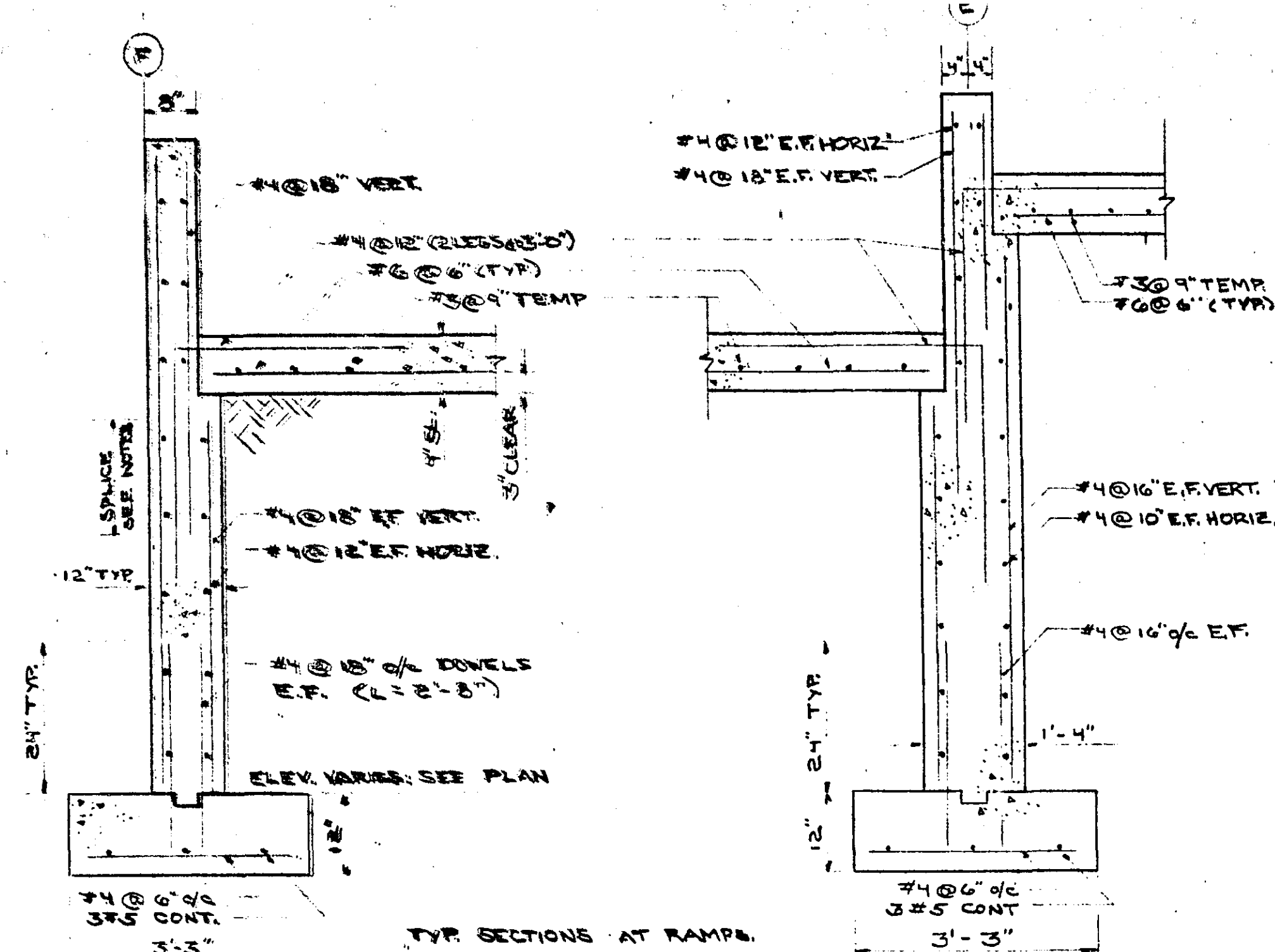
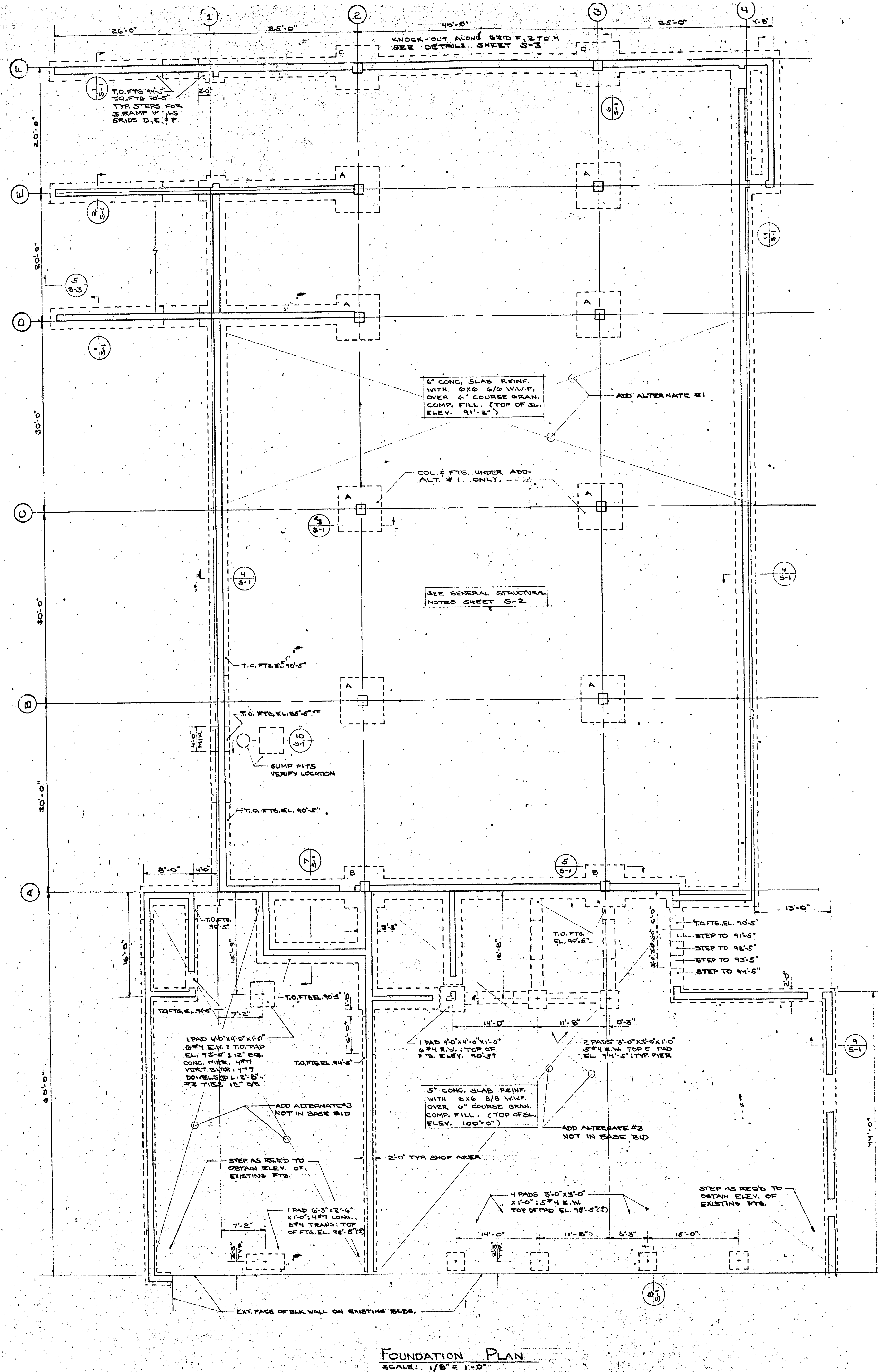
3UMP PUMP SCHEDULE									
TYPE +	PUMPS		POWER			MOTOR		CONTROL	MFG. NO.
	GPM	HEAD	V	PH	HZ	HP	RPM		
SUBMERISBLE	50	15'	120	1	60	1/2	1725	FLOAT SWITCH	ENPO MODEL 150

EXPANSION TANK					
DESIG.	TYPE	CODE DESIGN	CAPACITY	SIZE	MFG. NO.
ET-1	HORIZONTAL SUSPENDED WITH SIGHT GLASS	ASME	24 GAL.	12" DIA. X 49" LONG	BELL & GOSSETT #2

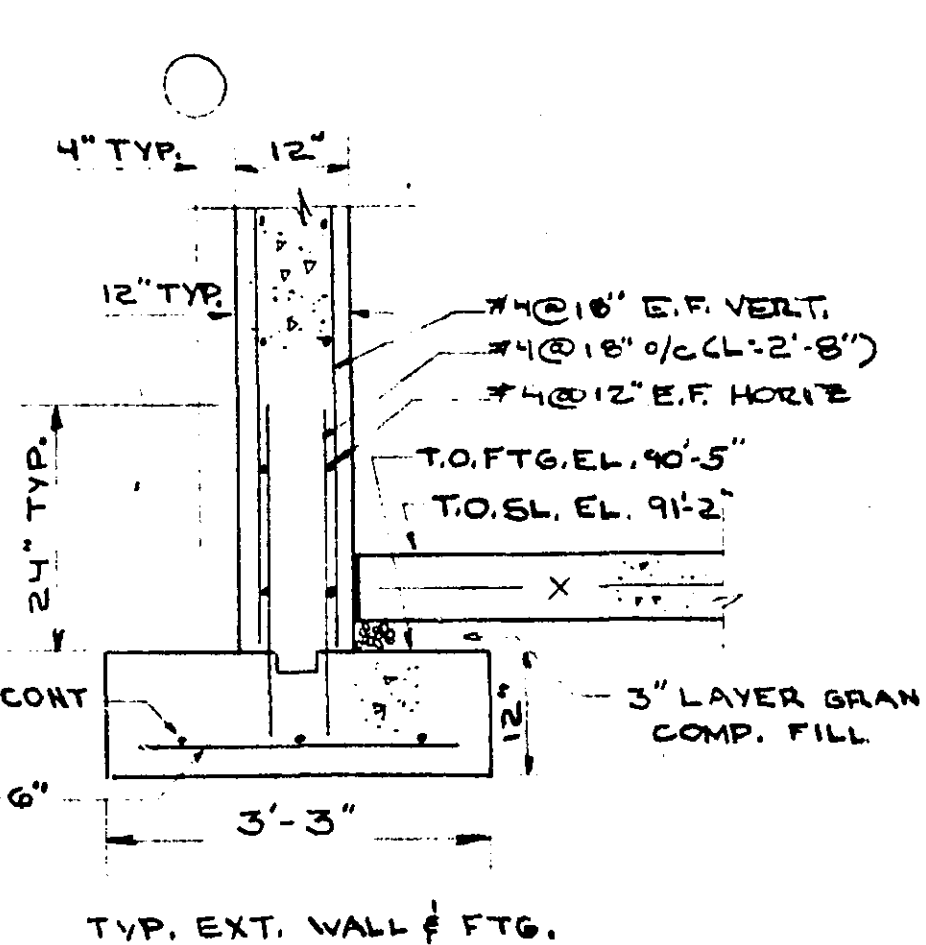
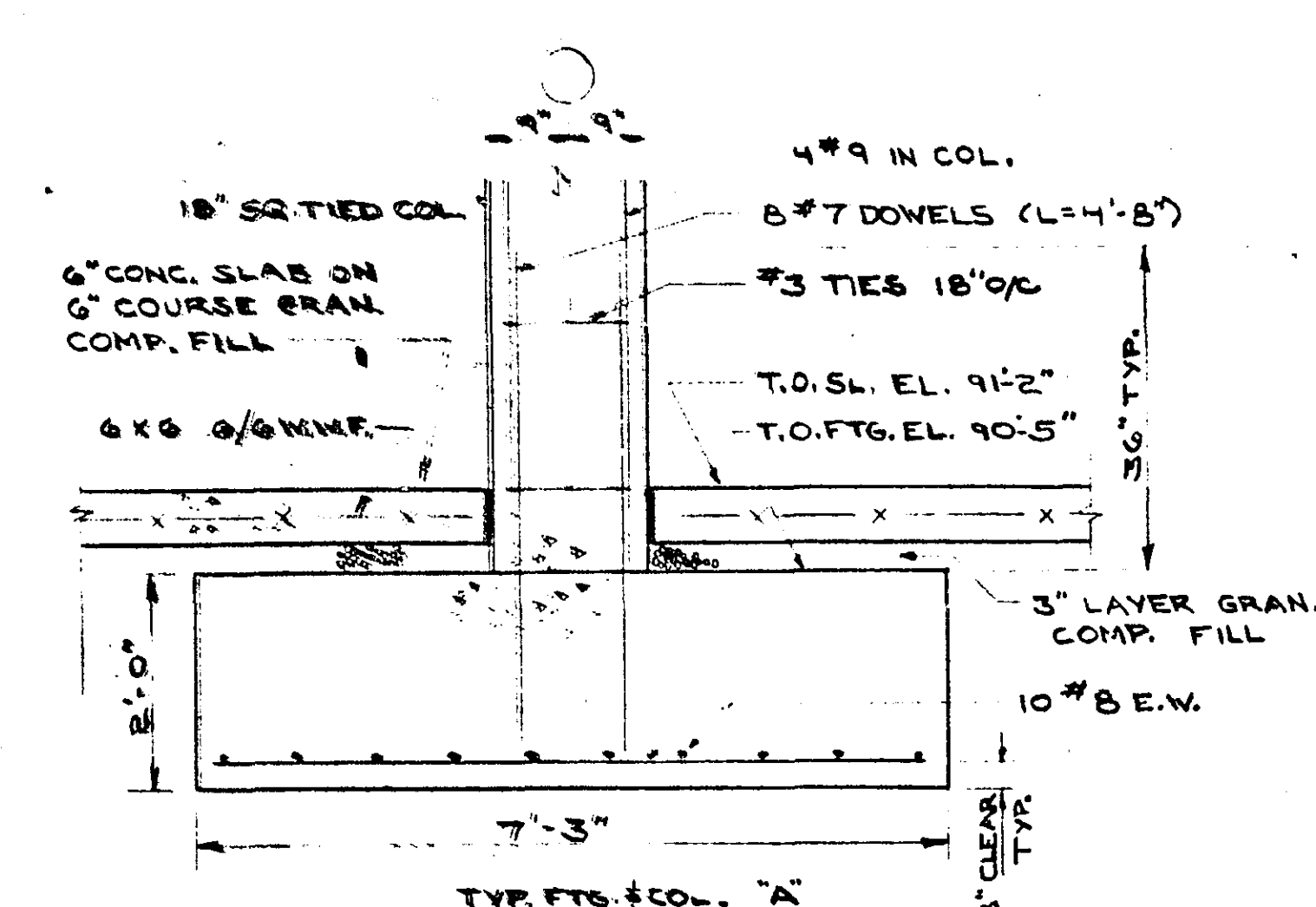
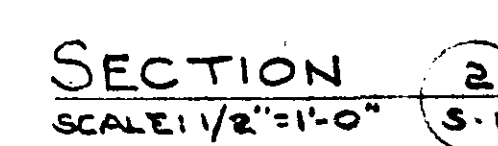
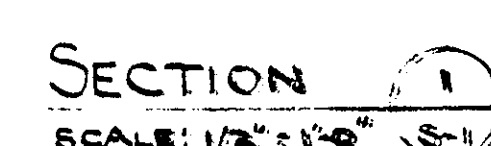
CIRCULATING PUMP SCHEDULE												
DESIG.	TYPE	GPM	FT. OF HEAD	POWER		MOTOR		STARTER	IMPELLER MATERIAL	VOLUME MATERIAL	MFG. NO.	
				V	PH	HP	HZ					RPM
CP-1	IN-LINE CENTRIFUGAL	18.0	124.0	120	1	60	1/3	1750	BY E.C.	BRONZE	BRONZE	BELL & GOSSETT SERIES 60 1A WITH 1/2" TAPET

PLUMBING FIXTURE		SCHEDULE		CONNECTIONS			FIXTURE
DESIG.	TYPE	MFG. NO.	C.W.	H.W.	WASTE	MOUNTING HEIGHT	
P-1	FLOOR MOUNTED FLUSH VALVE WATER CLOSET	CRANE WHIRLTON 3-325 WITH SLOAN ROYAL 110 QYVVG FLUSH VALVE	1"	--	4"	--	
P-2	WALL HUNG FLUSH VALVE URINAL	CRANE CROMWELL NO. 7-187 WITH SLOAN ROYAL 186 QV FLUSH VALVE (OSAM NO. C-230 CARRIER	3/4"	--	2"	24" TO RIM	
P-3	WALL HUNG LAVATORY 20" X 18"	CRANE NORWICH 1-195 WITH 8-2086A FAUCET; 8-5002 SUPPLY STOPS; 8-5260 P-TRAP; OSAM NO. C-304 CARRIER	1/2"	1/2"	1-1/4"	31" TO RIM	
P-4	WALL HUNG LAVATORY 24" X 21"	CRANE NORWICH 1-195 WITH 8-2086A FAUCET; 8-5002 SUPPLY STOPS; 8-5260 P-TRAP; OSAM NO. C-304 CARRIER	1/2"	1/2"	1-1/4"	31" TO RIM	
P-5	SHOWER	SYMMONS NO. 1-100 5BK-2	1/2"	1/2"	2"	60" TO HEAD	
P-6	SERVICE SINK 21" X 24"	ROYAL MOUNT POST FIBERGLASS SINK WITH CRANE 8-3755 FAUCET; FURNISH STOPS: 8-5240 STRAINER & 1-1/2" TRAP	1/2"	1/2"	2"	--	
P-7	MOP BASIN	FIAT MODEL M58 3624 WITH #830-AA; #812-AA HOSE AND #899-CC	1/2"	1/2"	3"	--	
D-1	FLOOR DRAIN	OSAM NO. 5424 WITH FLASHING CLAMP DEVICE	--	--	4"	--	
D-2	FLOOR DRAIN	OSAM NO. 302-35C WITH FLASHING CLAMP DEVICE	--	--	4"	--	
D-3	FLOOR DRAIN	OSAM NO. 524 WITH FLASHING CLAMP DEVICE	--	--	4"	--	
D-4	FLOOR DRAIN	OSAM NO. 5424 WITH FLASHING CLAMP DEVICE	--	--	4"	--	
W.H.	WALL HYDRANT	WOODFORD MODEL 8 SERIES	3/4"	--	--	18"	
H.B.	HOSE BIBB	CHICAGO NO. 952LF	3/4"	--	--	18"	
F.C.O.	FLOOR CLEANOUT	OSAM Y-624-F	--	--	--	--	

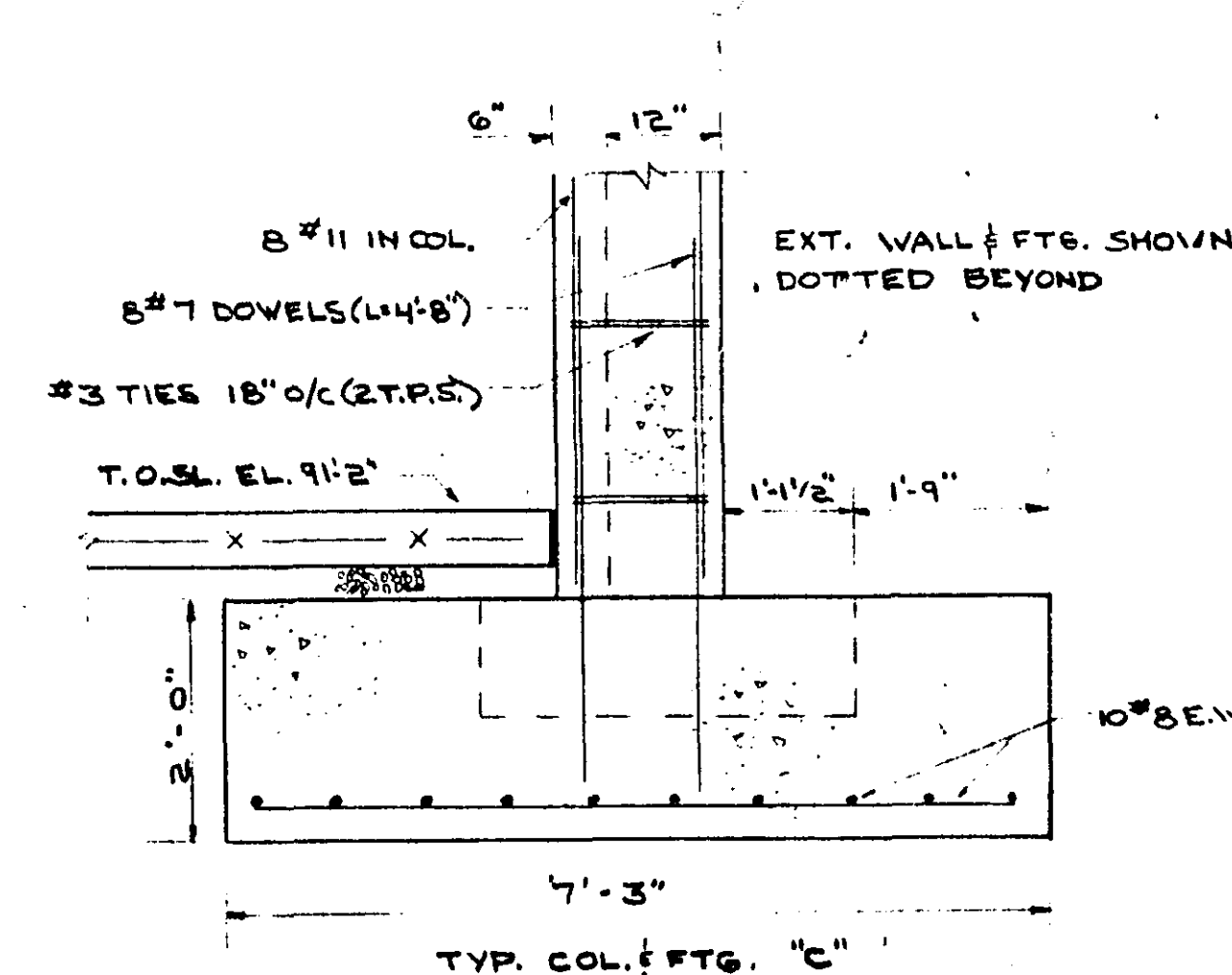
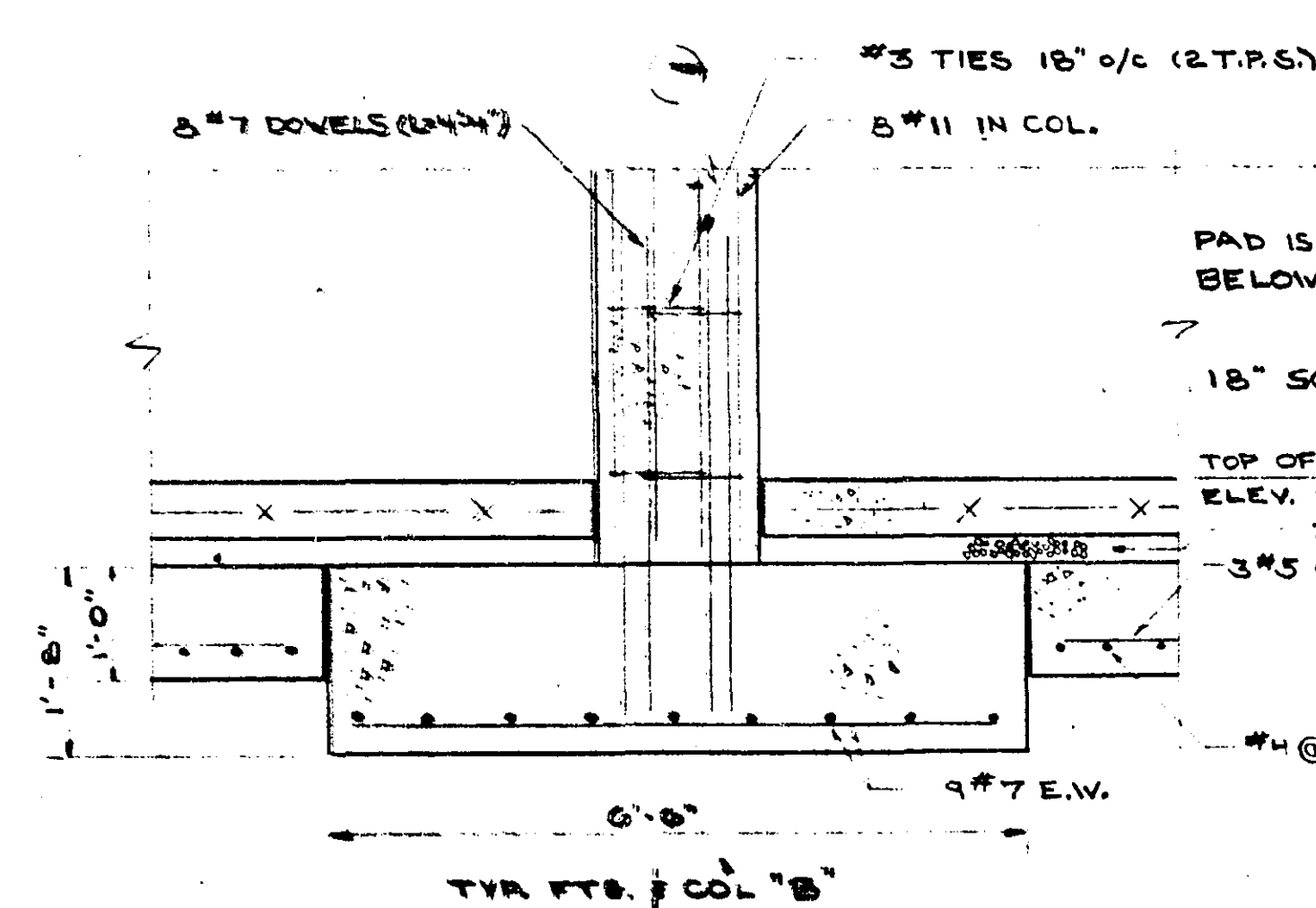




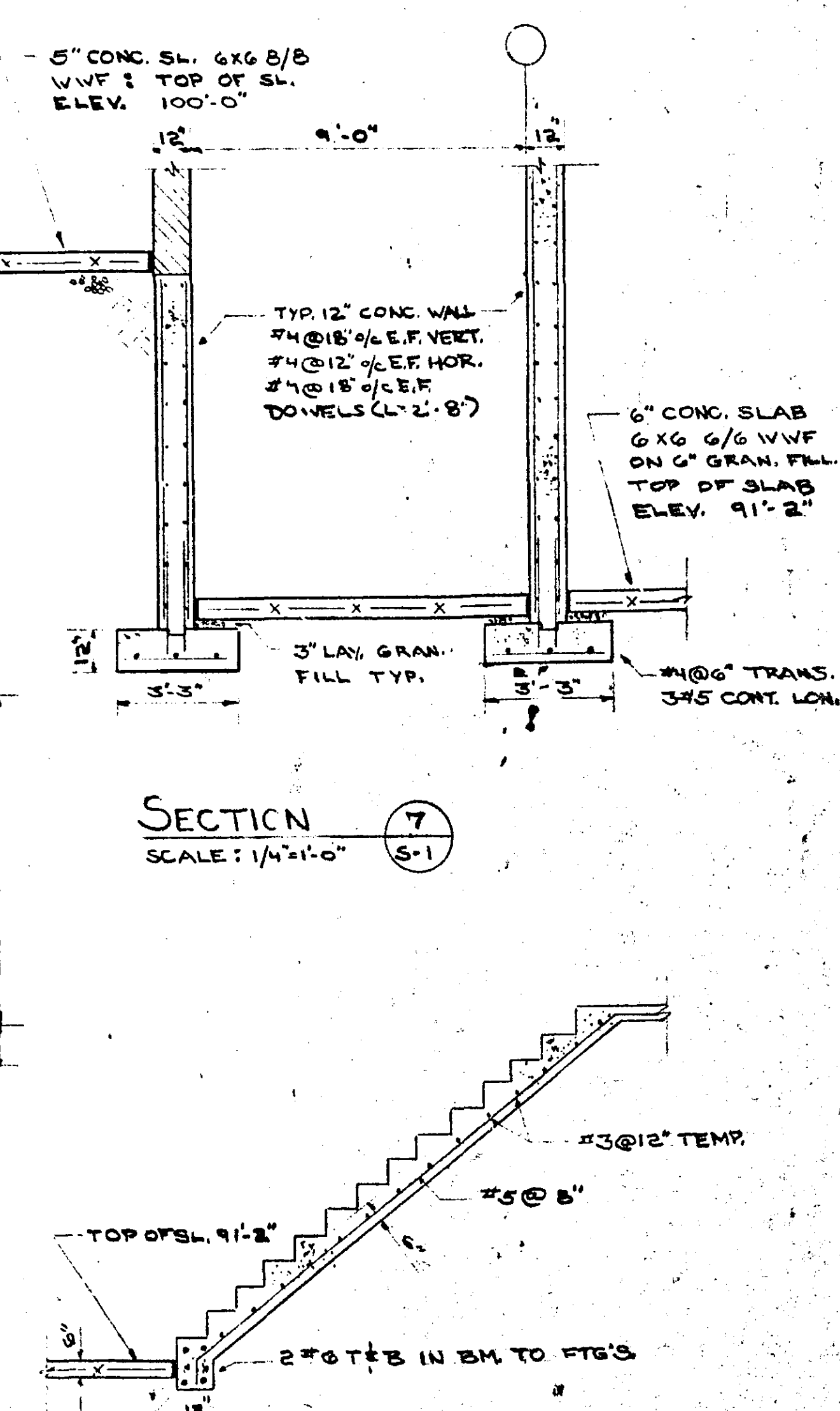
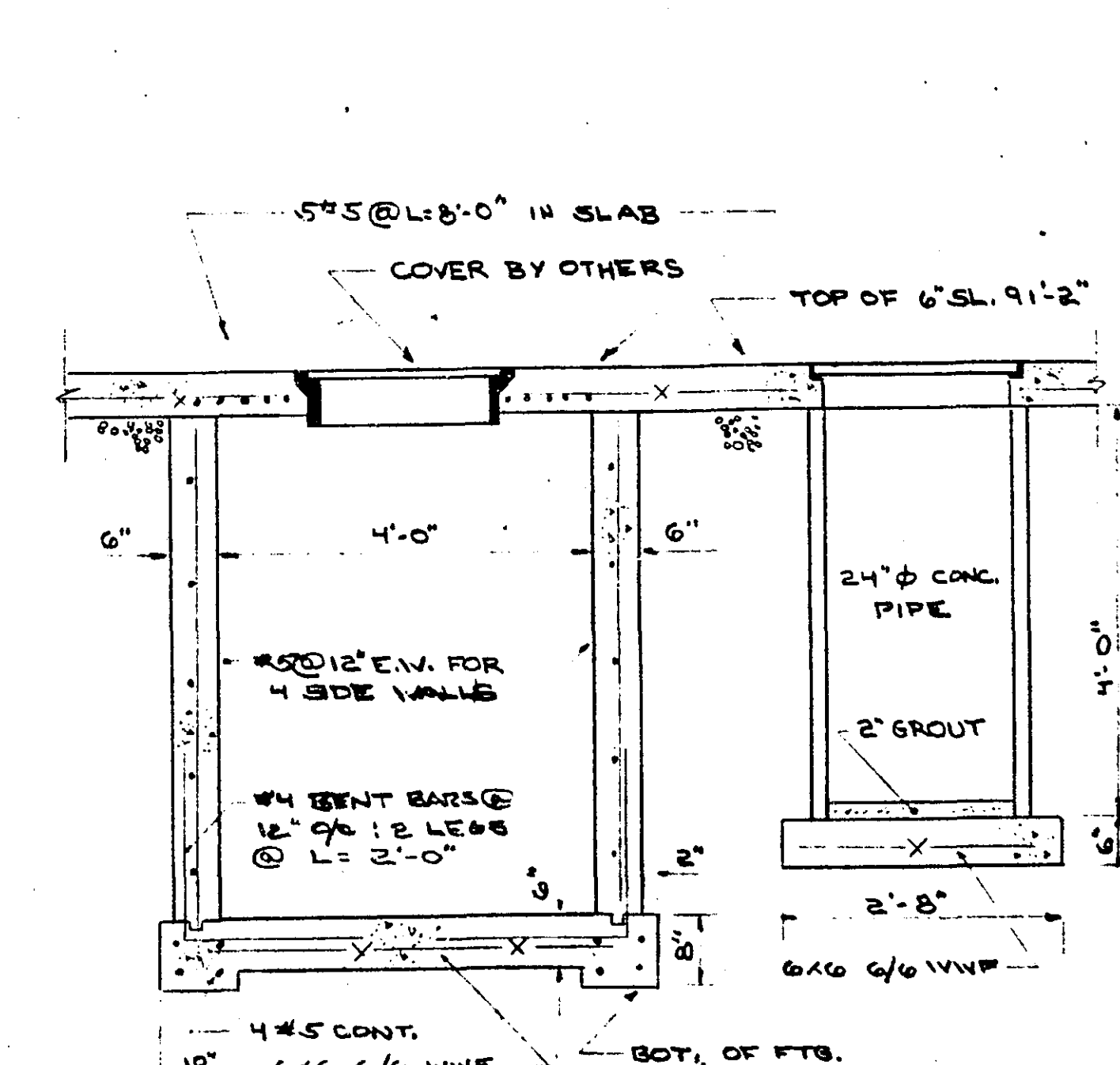
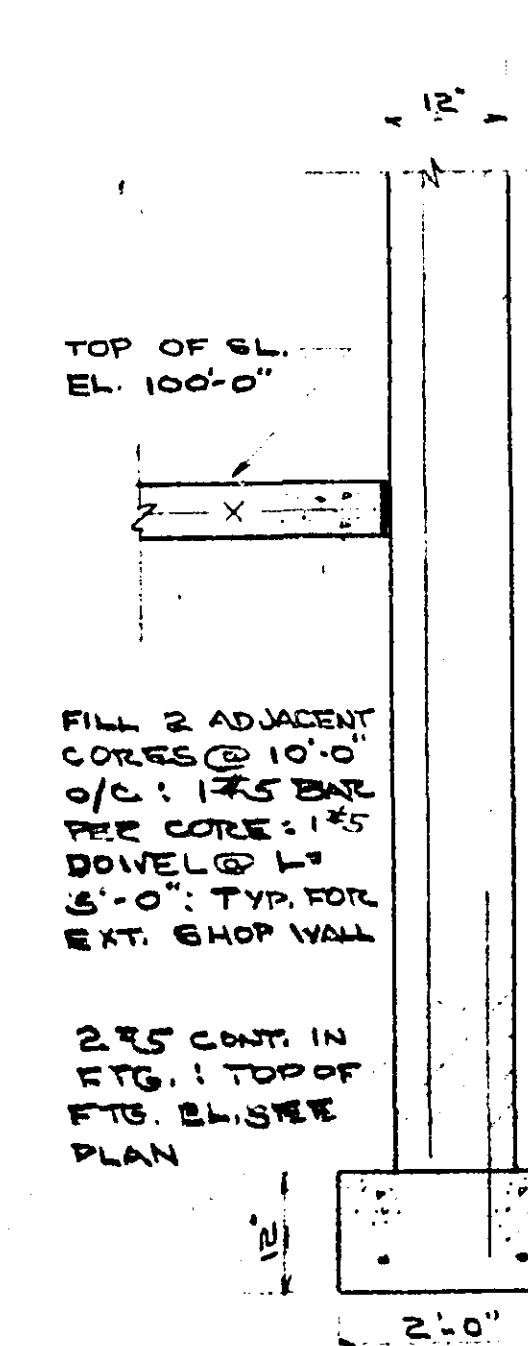
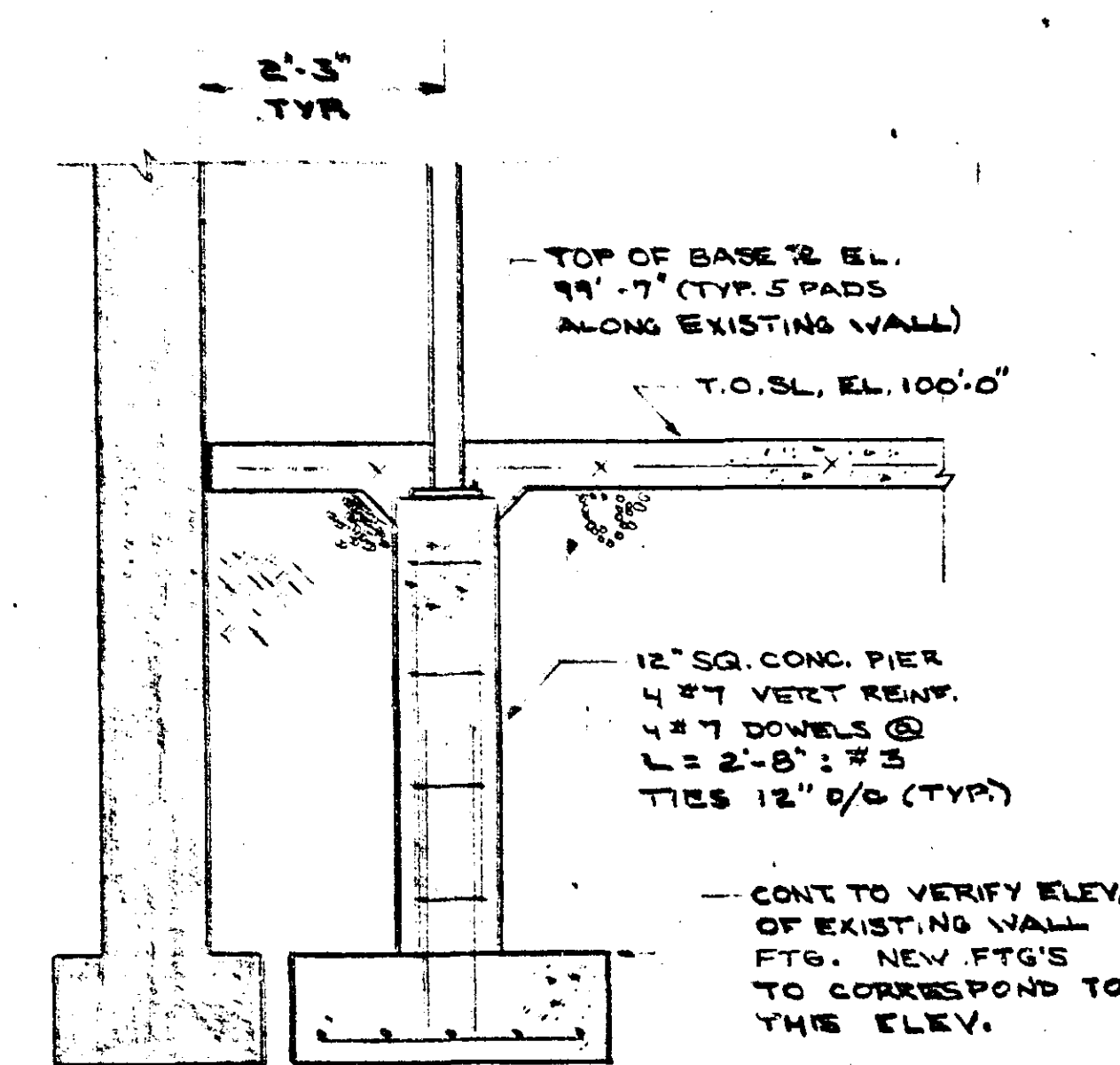
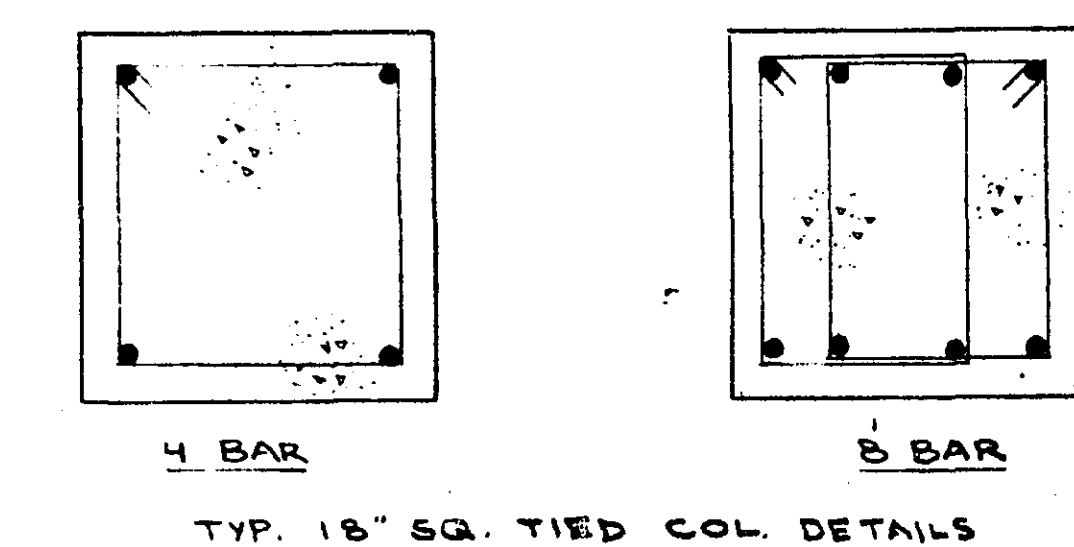
TYPICAL BUMPER SUPPORTS
SCALE: 1"=1'-0"

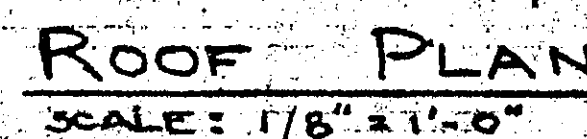


TYPICAL STEP FTG. DETAIL
NO SCALE



CONC. COLUMN DETAILS





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RAMSEY CO. ENGR. T-136