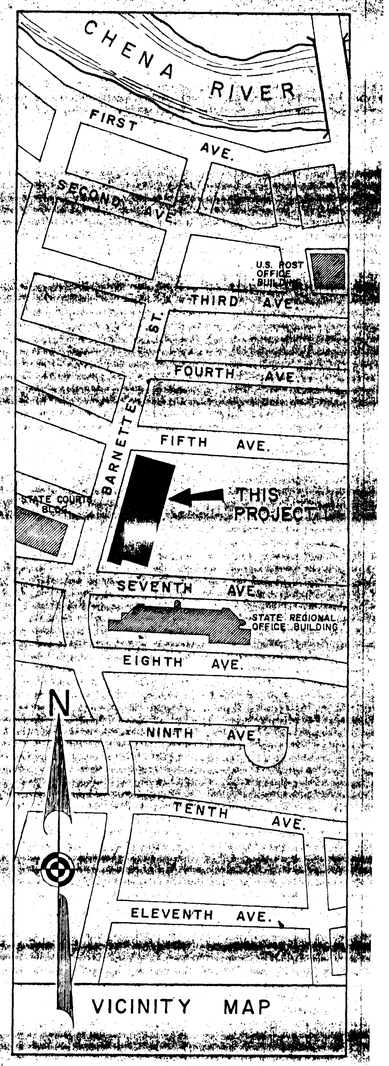
FAIRBANKS PARKING STRUCTURE

STATE OF ALASKA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF BUILDINGS
JUNEAU, ALASKA

DBA-2-0130

GRAY ROGERS MYERS & MORGAN
A DIVISION OF ELLERBE



VICINITY MAP

SCHEDULE OF DRAWINGS

SHEET NO.	TITLE
CIVIL	
C-1	SITE PLAN
C-2	GRADING PLAN
ARCHITECTURAL	
A-1	LEVELS L (LOWER), & 1 FLOOR PLANS
A-2	LEVEL 2 FLOOR PLAN
A-3	LEVEL R (ROOF) FLOOR PLAN & SIGN SCHEDULE
A-4	EXTERIOR ELEVATIONS
A-5	BUILDING SECTIONS
A-6	INTERIOR ELEVATIONS
A-7	STAIRS No. 1 & No. 2
A-8	SECTIONS, STAIR No. 1
A-9	STAIR No. 3 & DETAILS
A-10	ELEVATOR HOISTWAY SECTIONS & STAIR DETAILS
A-11	INSULATED METAL WALL DETAILS
A-12	INSULATED METAL WALL DETAILS & MISC. DETAILS
A-13	MISC. DETAILS
A-14	DOOR SCHEDULE & DETAILS
A-15	DOOR & WINDOW DETAILS
A-16	WALL SECTIONS & DETAILS
A-17	WALL SECTIONS

SHEET NO.	TITLE
STRUCTURAL	
S-1	TYPICAL DETAILS AND GENERAL STRUCTURAL NOTES
S-2	FOUNDATION PLAN AND LEVEL 1 FLOOR PLAN
S-3	STAIRS NO. 2 & 3 - PLANS & SECTION
S-4	LEVEL 2 & LEVEL R (ROOF) FLOOR PLANS
S-5	STAIR No. 1 AND No. 2 PLANS AND DETAILS
S-6	STAIR No. 1 SECTIONS AND DETAILS
S-7	FOUNDATION DETAILS
S-8	STRUCTURAL DETAILS
S-9	PENTHOUSE FRAMING PLANS AND DETAILS
S-10	BEAM AND COLUMN SCHEDULE AND DETAILS
S-11	SHEAR WALL ELEVATIONS AND DETAILS
S-12	SHEAR WALL ELEVATIONS
S-13	SHEAR WALL ELEVATIONS
S-14	POST-TENSION DETAILS
S-15	PRECAST GIRDERS AND CONVENTIONAL REINFORCED SLAB DETAILS

SHEET NO.	TITLE
MECHANICAL	
M-1	PLOT PLAN
M-2	FOUNDATION PLAN & DETAILS
M-3	LEVEL 1 PLAN AND DETAILS
M-4	LEVEL 2 PLAN AND DETAILS
M-5	LEVEL R (ROOF) AND DETAILS
M-6	DETAILS
M-7	SECTIONS
M-8	SCHEDULES AND DETAILS
M-9	DETAILS
M-10	LEVEL L (LOWER) MECHANICAL ROOM PLANS
ELECTRICAL	
E-1	ELECTRICAL LIGHTING, POWER AND SIGNAL - LEVEL L (LOWER) AND LEVEL 1 FLOOR PLANS
E-2	ELECTRICAL LIGHTING, POWER AND SIGNAL - LEVEL 2 AND LEVEL R (ROOF) FLOOR PLANS
E-3	ELECTRICAL SIGNAL RISERS AND DETAILS
E-4	ELECTRICAL - PANELBOARD SCHEDULES, ONE LINE DIAGRAM, MISCELLANEOUS

PETER KIEWIT SONS' CO.
FAIRBANKS ALASKA
RECOMMENDED
CONTRACTOR'S REP.
APPROVED
AS-BUILT

THESE DRAWINGS HAVE BEEN MODIFIED - AS BUILT
Aug 76

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JUNEAU ALASKA

FAIRBANKS PARKING STRUCTURE

DBA-2-0130 FAIRBANKS, AK

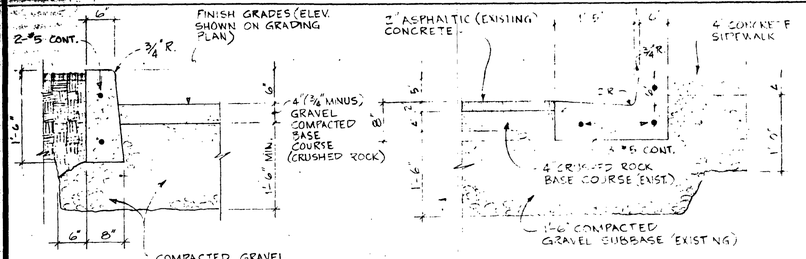
PETER KIEWIT SONS' CO.

AS-BLT

SITE P

C-1

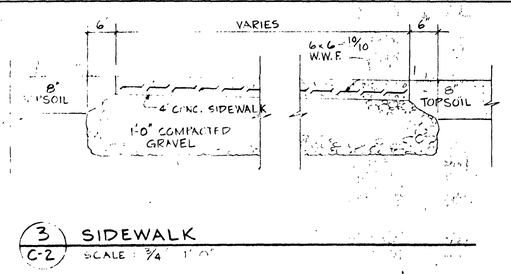
SHEET 2 O



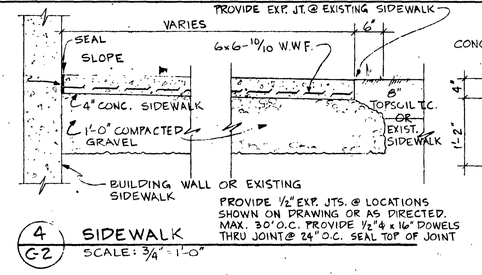
PROVIDE EXP. JOINTS EVERY 20' AND AT CORNERS. SMOOTH DOWELS THRU JOINT. SEAL JOINTS

1 C-2 CURB
SCALE: 3/4" = 1'-0"

2 C-2 CURB & GUTTER DETAIL
SCALE: 3/4" = 1'-0"

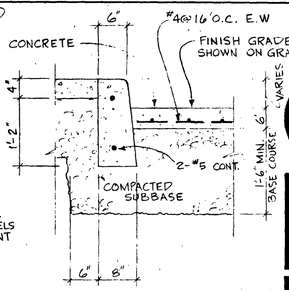


3 C-2 SIDEWALK
SCALE: 3/4" = 1'-0"



PROVIDE 1/2" EXP. JTS. @ LOCATIONS SHOWN ON DRAWING OR AS DIRECTED. MAX. 30'O.C. PROVIDE 1/2"ø x 16" DOWELS THRU JOINT @ 24" O.C. SEAL TOP OF JOINT

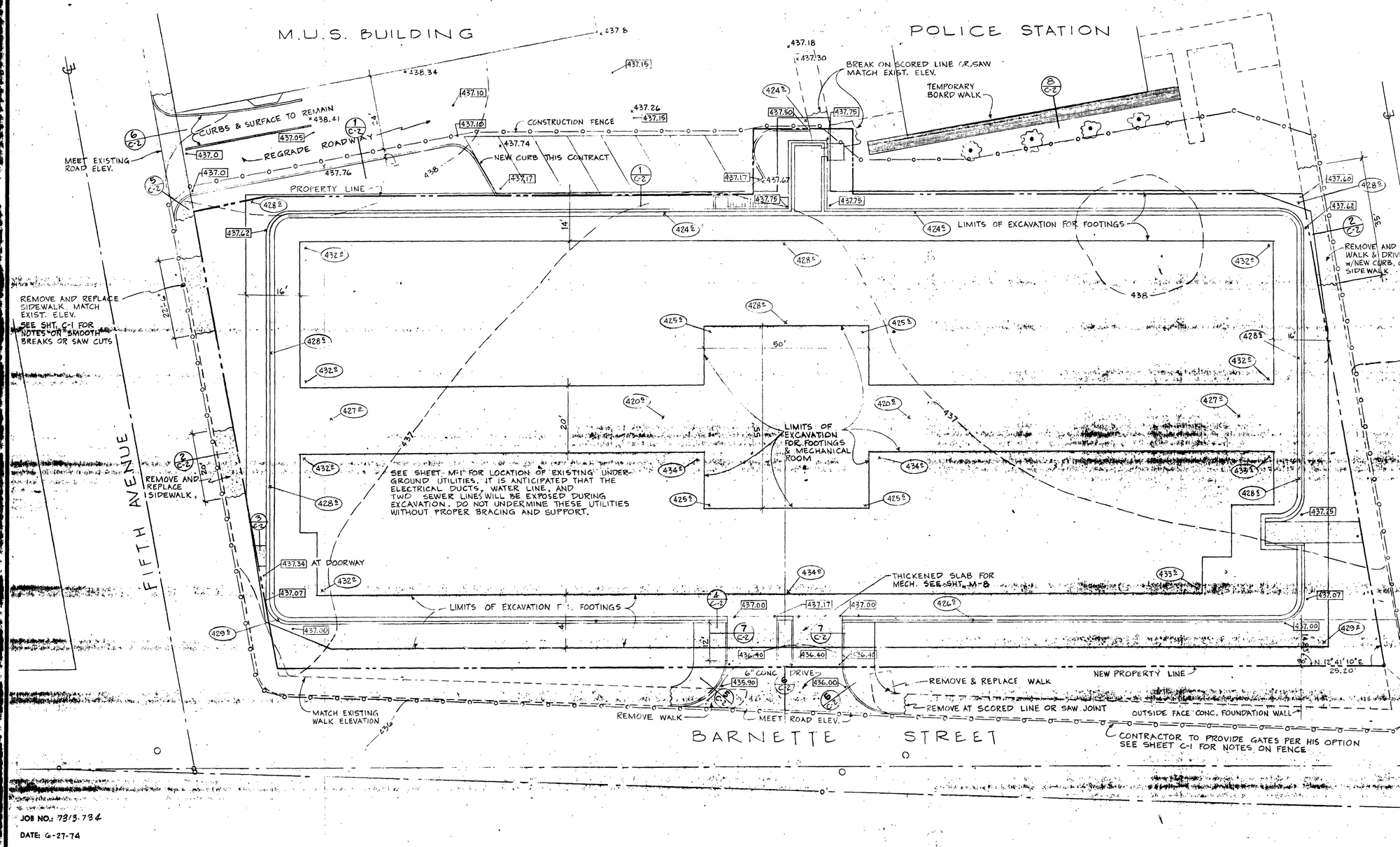
4 C-2 SIDEWALK
SCALE: 3/4" = 1'-0"

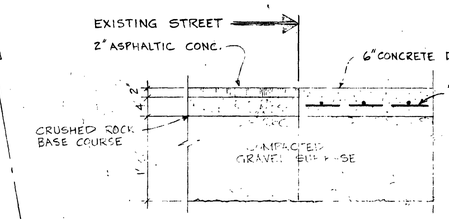


PROVIDE EXP. JOINTS EVERY 20' AND AT CORNERS

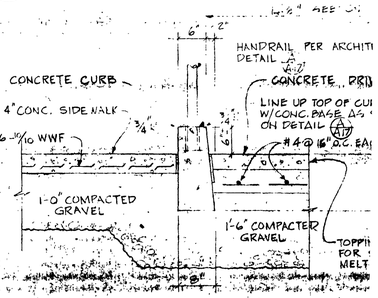
5 C-2 SIDEWALK & CURB
SCALE: 3/4" = 1'-0"

GRAY ROGERS MYERS & MORGAN

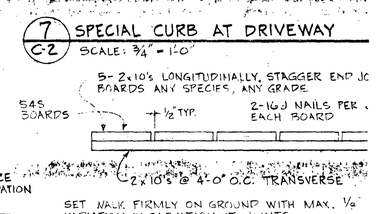




6 C-2 SCALE: 3/4" = 1'-0"



7 C-2 SPECIAL CURB AT DRIVEWAY
SCALE: 3/4" = 1'-0"



8 C-2 BOARD WALK SECTION
SCALE: 1" = 1'-0"

×437.00 = EXISTING ELEV.
437.00 = FINISHED ELEV.
(437.00) = EXCAVATION ELEV.
--437-- = EXISTING CONTOUR

SCALE: 1/16" = 1'-0"

JOB NO.: 7313.734
DATE: 6-27-74

GRADING P

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JUNEAU ALASKA

FAIRBANKS PARKING STRUCTURE

DBA-2-0130

FAIRBANKS, AK.

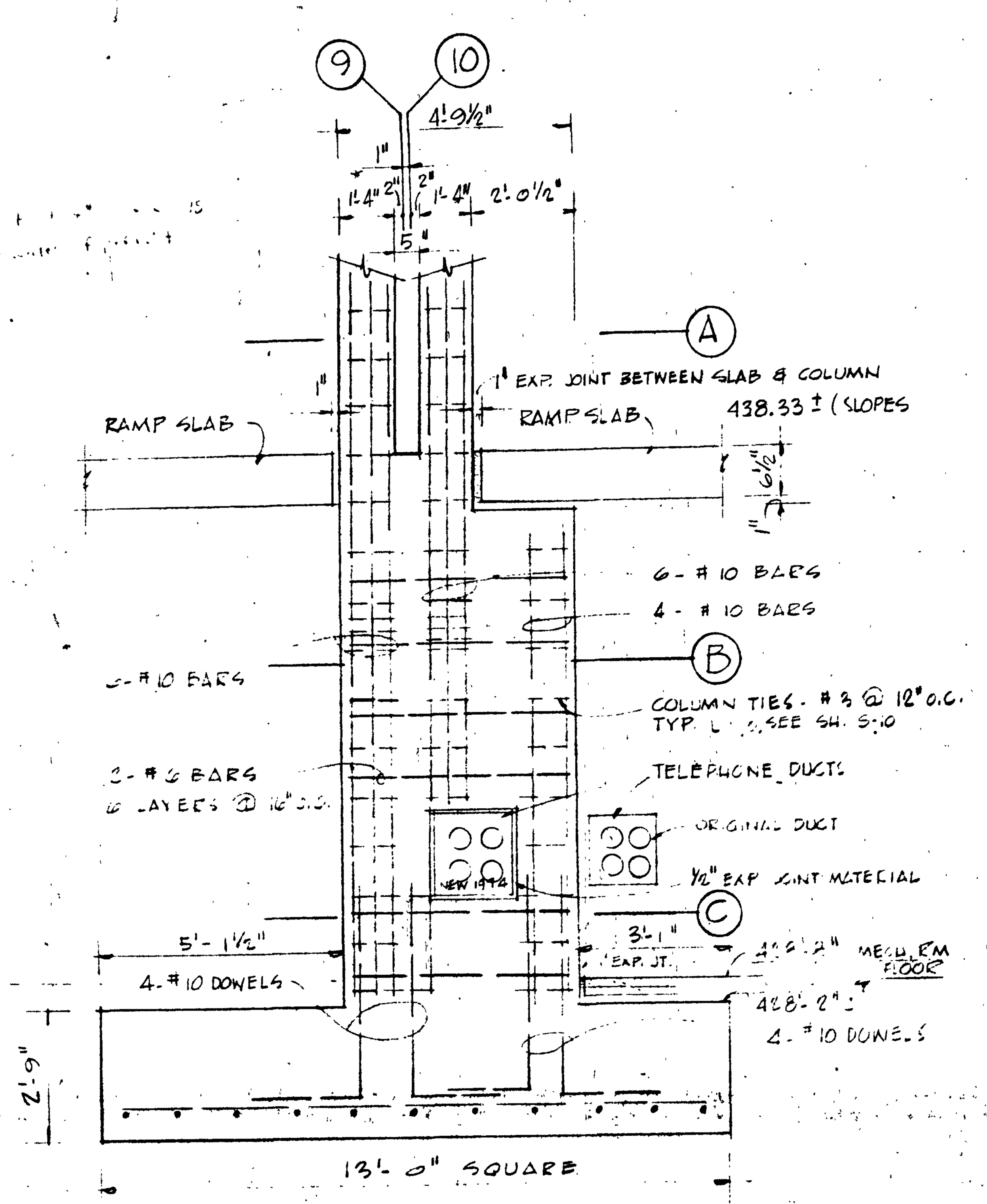
STATE OF ALASKA 49TH Roger D. Santelman No. 494-E REGISTERED PROFESSIONAL ENGINEER

PETER KIEWIT SONS' CO.
FAIRBANKS ALASKA
CONTRACTOR'S REP. OWNER'S REP.
DATE

C-2

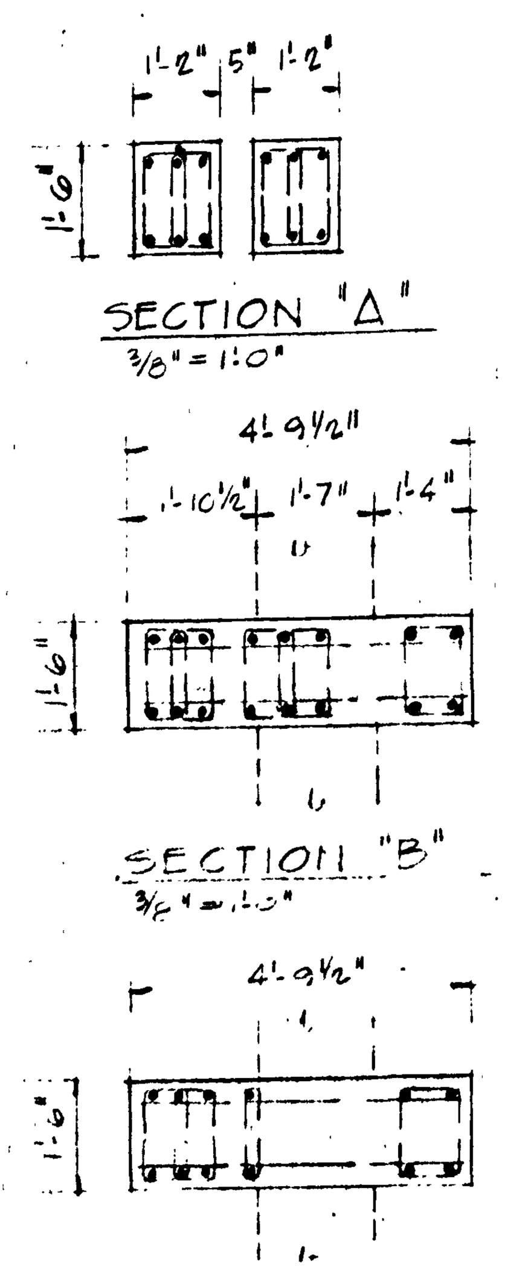
AS-BLT SHEET 3 OF

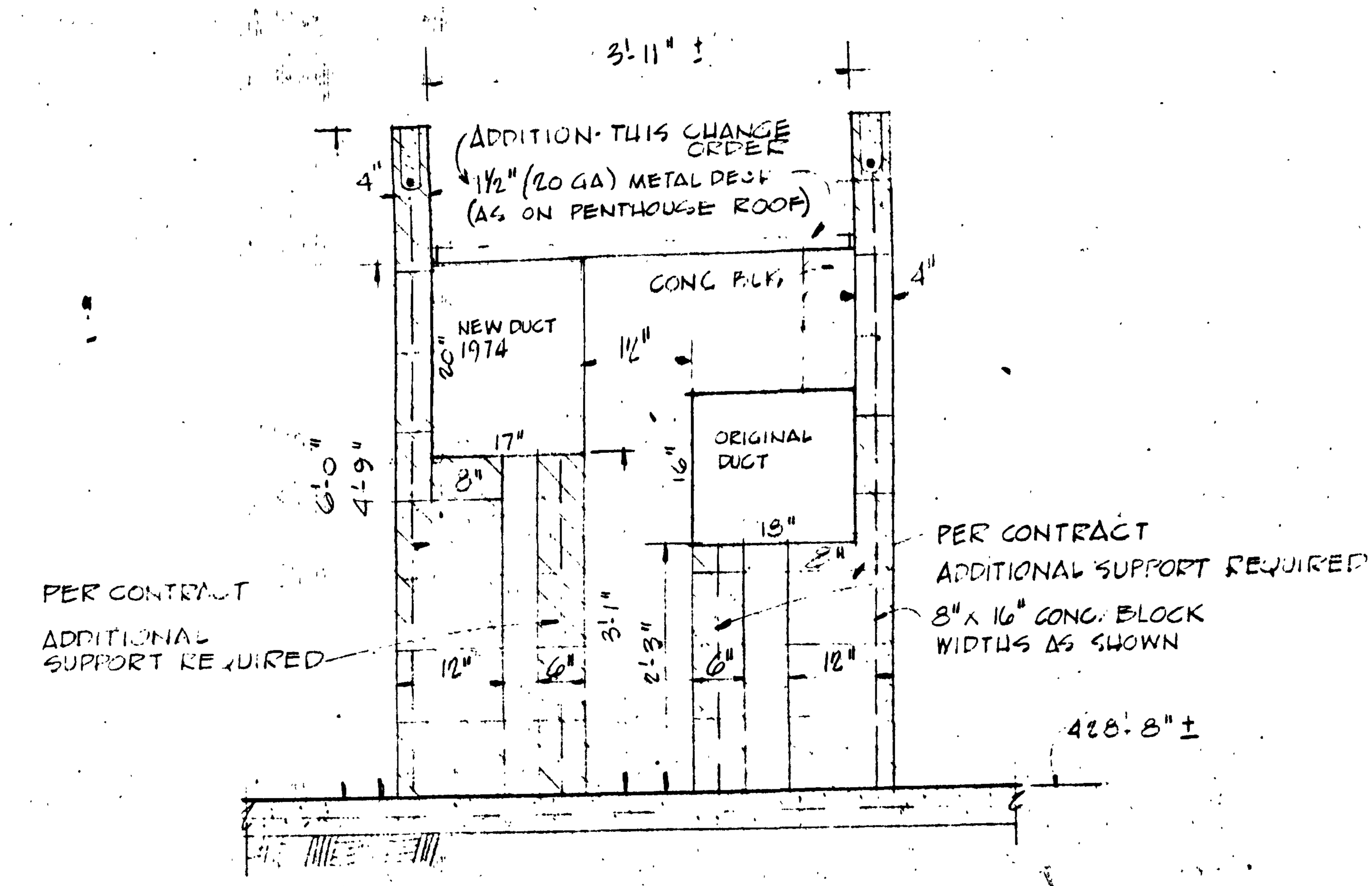
GRAY ROGERS MYERS & MORGAN



SECTION- COLUMN D-9/10

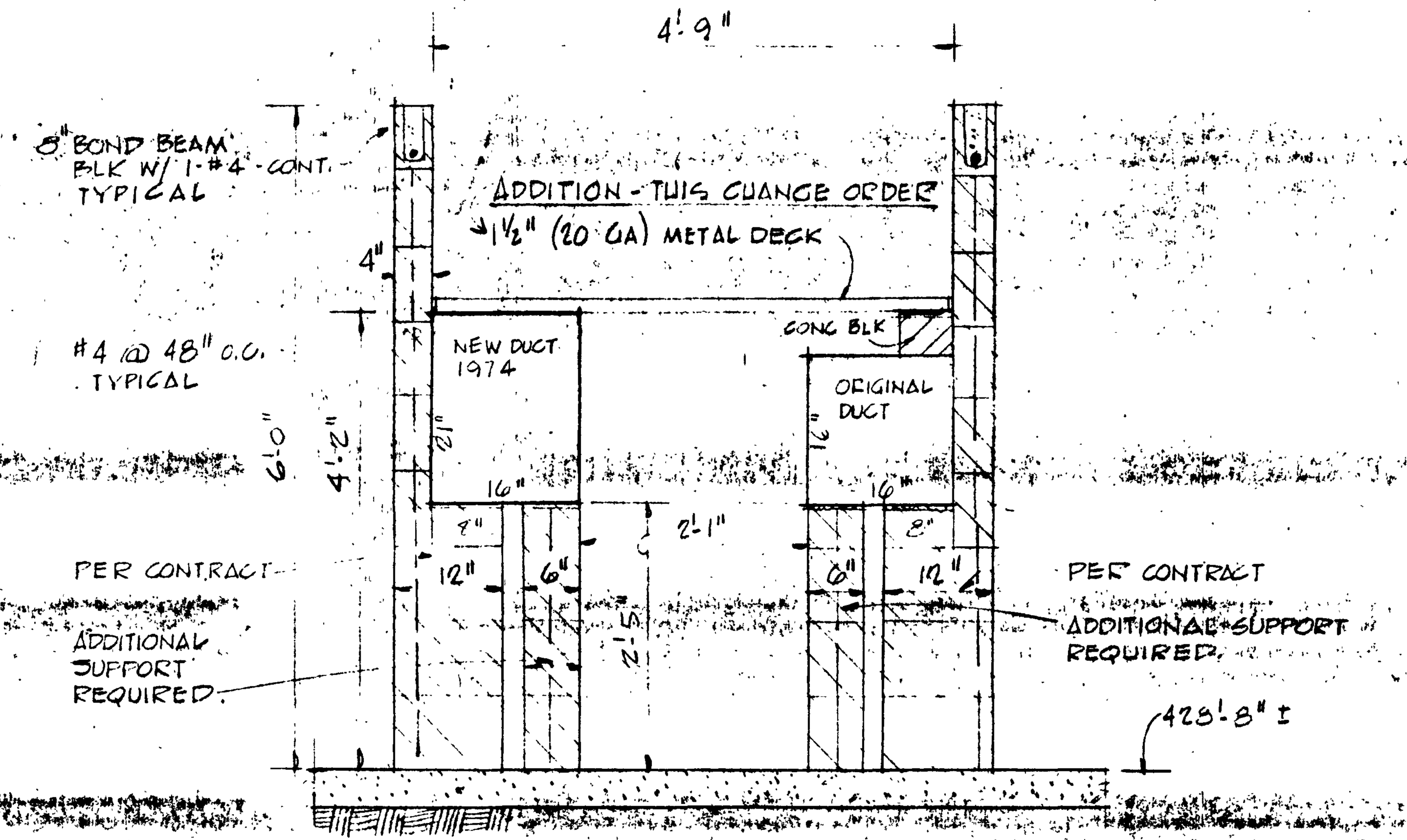
SCALE - 3/8" = 1'-0"





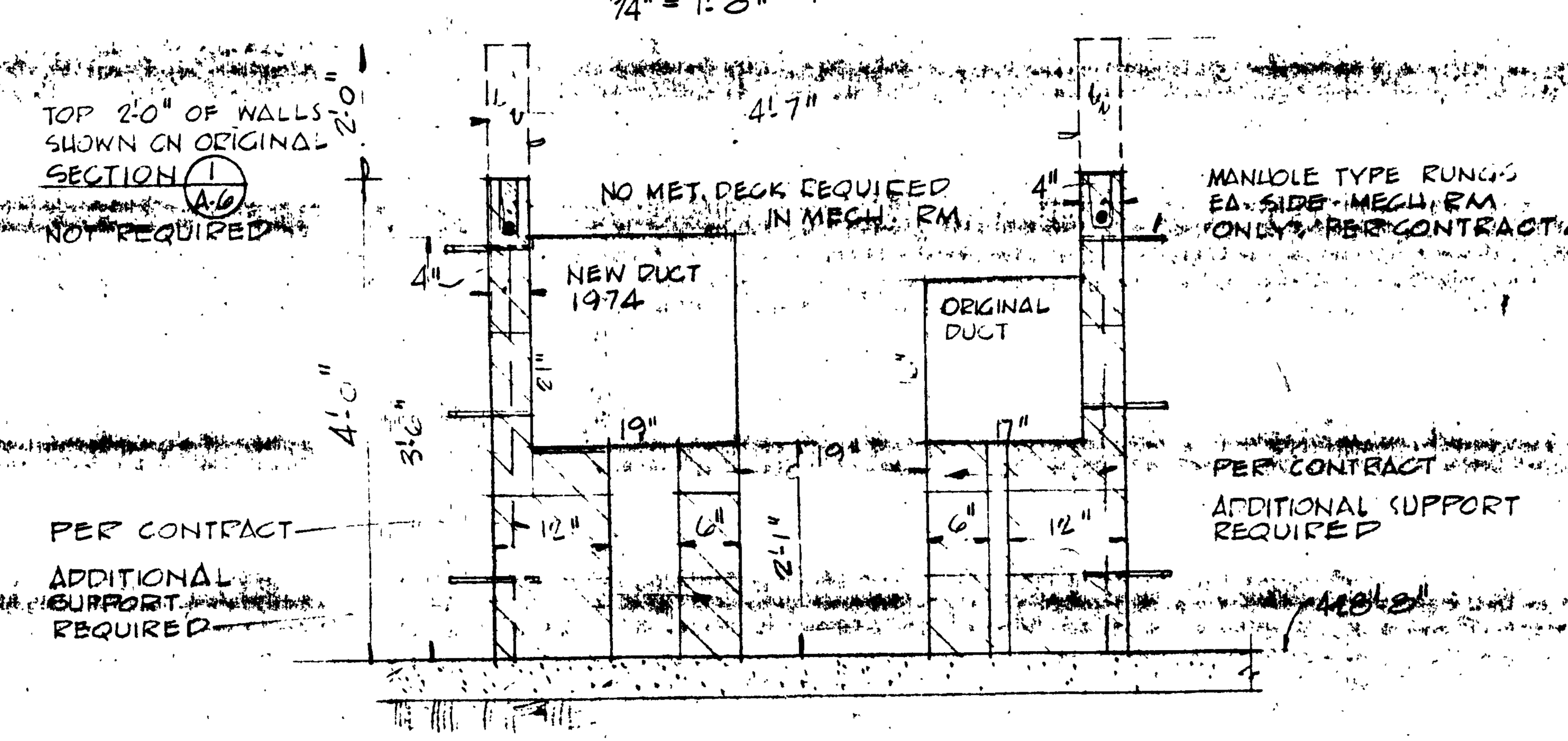
SECTION 1

3/4" = 1'-0"



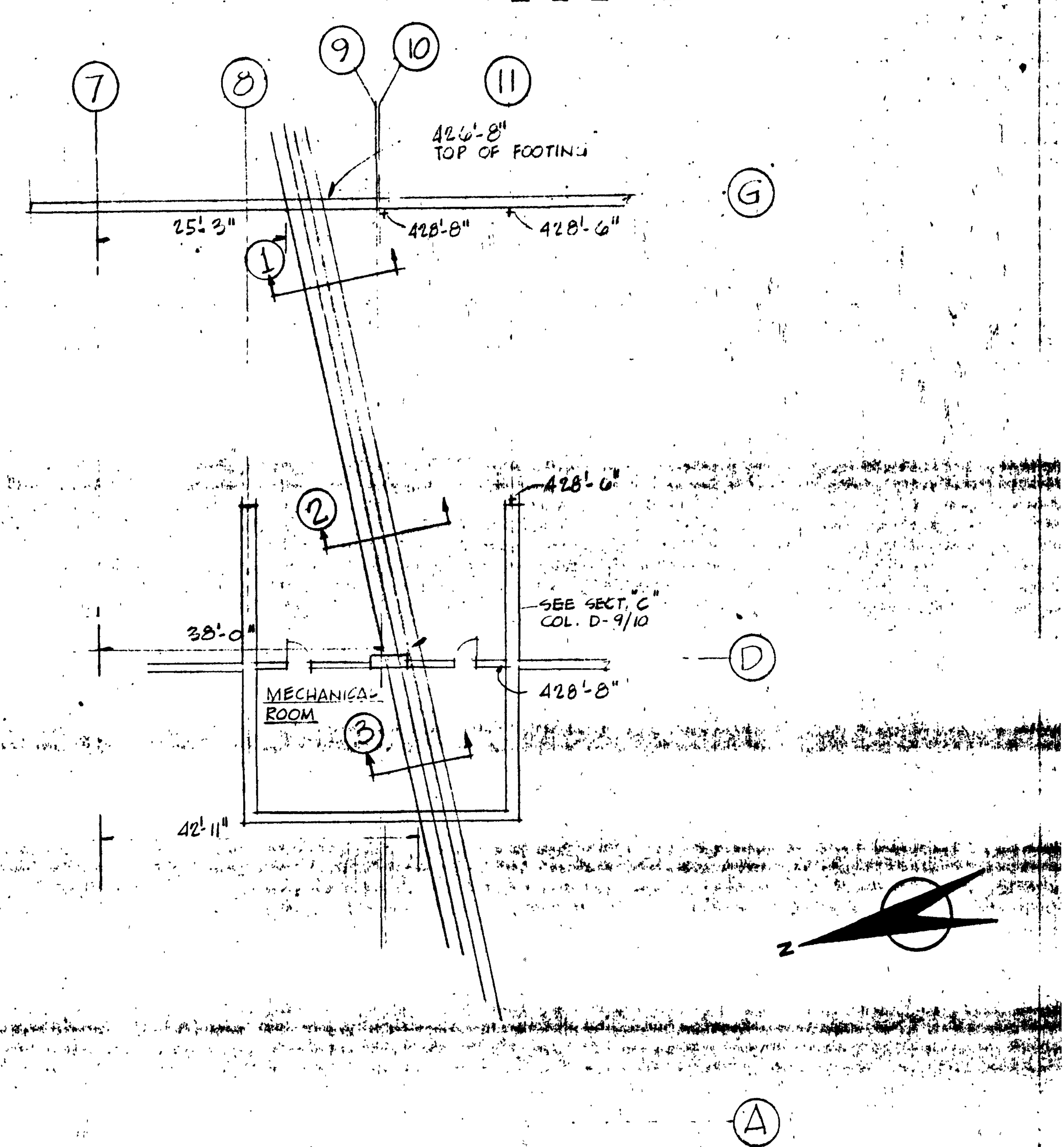
SECTION 2 SEE FL. PLAN

3/4" = 1'-0"



SECTION 3

3/4" = 1'-0"



FLOOR PLAN: LEVEL 1 LOWER

SCALE 1/16" = 1'-0"

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FAIRBANKS

DATE:

CHANGE ORDER DRAWING

NECESSARY REVISIONS DUE TO M.U.S. CHANGING TELEPHONE DUCT LOCATION

JOB NO.: 7313-734

DATE:

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FAIRBANKS PARKING STRUCTURE

DBA - 2 - 0130

FAIRBANKS, AK.

CO-1

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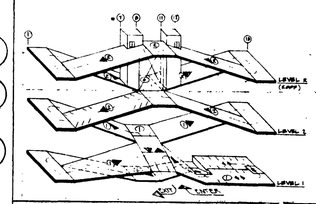

ROOM FINISH SCHEDULE

LETTER DESIGNATIONS:

A. EXPOSED CONCRETE
B. CONCRETE CURB
C. 12" X 12" X 1/8" SMOOTH VINYL ASBESTOS TILE
D. RUBBER TREADS & RISERS (LANDINGS VAT)
E. 6" RUBBER BASE
F. ENAMEL PAINT ON 3/4" PLASTER
G. LATEX PAINT ON 5/8" GYP. BD.
H. 5/8" GYP. BD. - NO FINISH
J. METAL PANELS - FINISH BY MFGR.
K. METAL LOUVER ENCLOSURES - FIN. BY MFGR.
L. METAL DECK
M. 3/4 SUSPENDED PLASTER CEIL.
N. NONE
O. SUSPENDED ACOUSTICAL TILE
P. CEILING HEIGHT VARIES
Q. PERIMAT

FINISH SCHEDULE NOTES:

1. PAINT INTERIOR & EXTERIOR WOOD & METAL DOORS - TYP.
2. PAINT ALL PIPE, HANDRAILS, GUARDRAILS, LADDERS, ETC.
3. PAINT OPERATION ON WALL FINISH AS INDICATED ON FLR. PLANS & INTERIOR ELEVATIONS. PAINT ON FACE SHALL HAVE NON-SLIP FINISH

FINISH SCHEDULE KEY

	FLOOR	BASE	WALLS	CLG.	CLG. HGT.	NOTES
EXAMPLE	A	B	J	A	P	1,2,3

NOTE:
INTERIOR CONC. FINISHES - ALL PRIMARY SURFACES TO HAVE FLOOR FINISH - ALL OTHERS TO BE STEEL TROWELED

LEVEL L (LOWER) A-B(A-F) A-P(1,2,3)
1/16" = 1'-0"

LEVEL 1 A-B'(A-F) A-P(1,2,3)
1/16" = 1'-0"

LEVELS L (LOWER) & 1 FLOOR PLANS

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FAIRBANKS PARKING STRUCTURE

DBA - 2 - 0130

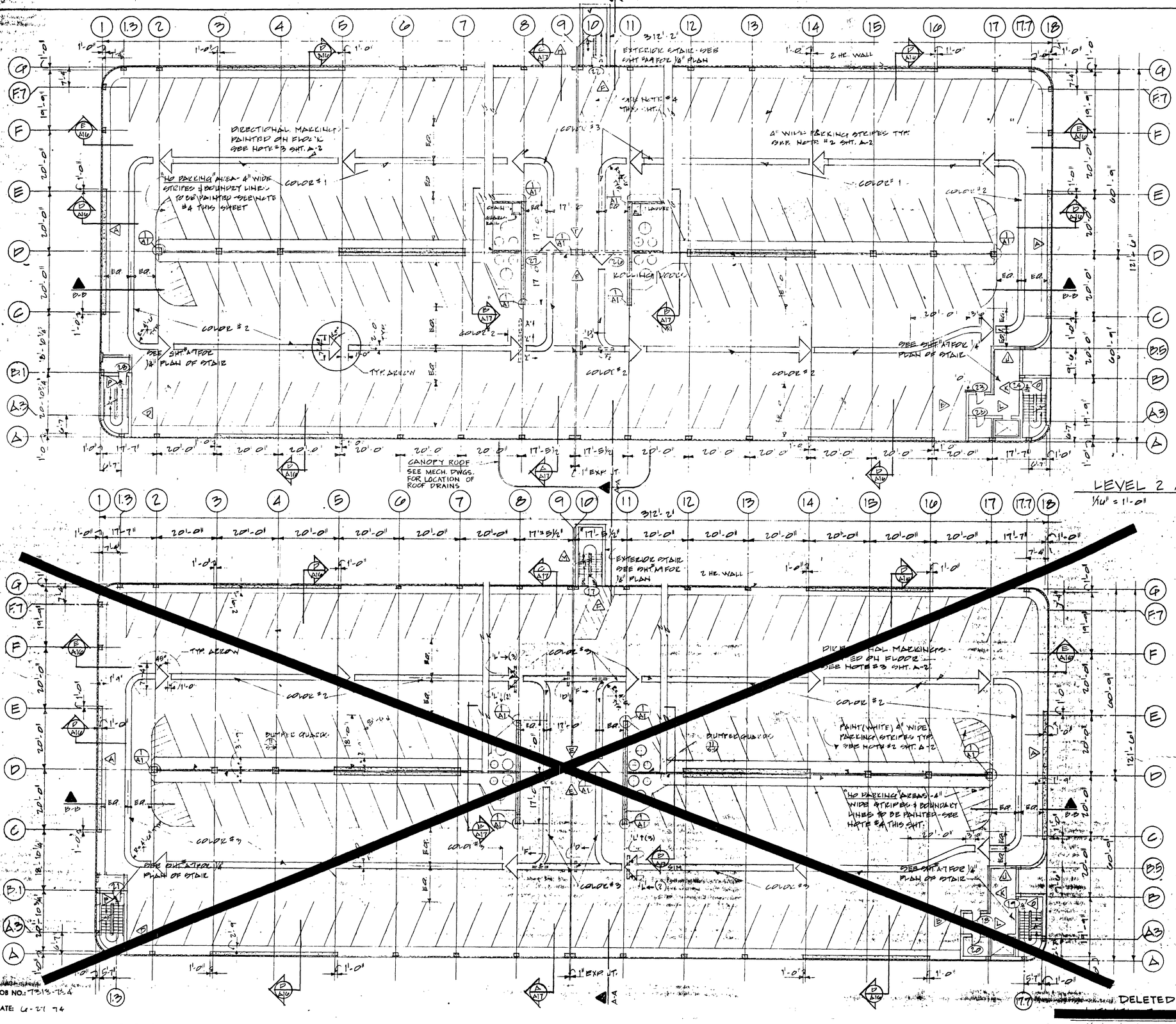
FAIRBANKS, AK.

JOB NO.: 7[illegible]
DATE: 12-27-74

PETER KIEWIT SONS CO.
ALASKA
AS-BLT

A-1

SHEET 4 OF 49



LEVEL 2 A,B,1,A,F,J,A,B,(1,2,3

1/16" = 1'-0"

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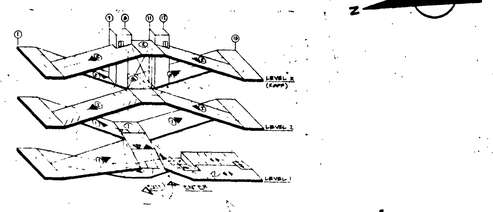
NOTES:

1. ALL WOOD DOORS SHALL BE GIVEN:
   - 1 COAT ENAMEL UNDERCOAT
   - 1 COAT 1/2 ENAMEL UNDERCOAT AND 1/2 ALKYD BASE ECCOSHELL ENAMEL
   - 1 COAT ALKYD-BASE ECCOSHELL ENAMEL
2. PARKING STRIPES PAINTED W/ "FASCO" TRAFFIC LINE PAINT (WHITE NO. 8052) APPLY AS PER MFGR. SPECIFICATIONS
3. DIRECTIONAL MARKINGS PAINTED W/ "FASCO" (OR EQUAL) TRAFFIC LINE PAINT (SPECIAL COLORS) REQUIRED FOR EACH LEVEL - COLORS TO MATCH SAMPLES SUBMITTED BY ARCHITECT
4. "NO PARKING" AREAS TO HAVE PAINTED STRIPES BOUNDARY - USE "FASCO" (YELLOW NO. 8053)

REF. SPEC. SECTION 03301, 12.0 & .7:

APPLY NON-SLIP AGGREGATE (FRICTEX "H" OR EQUAL) TO ALL INTERIOR DRIVING SURFACES AND ENTRANCE DRIVEWAY. USE SPECIFIED 25#/100 FT² ALL AREAS EXCEPT PLACE 40#/100 FT² IN FOLLOWING LOCATIONS:
1. ENTRANCE DRIVEWAY
2. ENTIRE AREA BETWEEN COLUMN LINES 1 & 2, B & 11, AND BETWEEN 17 & 18.
3. 15'-0" WIDE STRIP ON ALL RAMPS ALONG ℄ OF DRIVING SURFACE



JOB NO.: 7313-13.4

DATE: 6-27-74

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DIVISION OF BUILDINGS
JUNEAU ALASKA

FAIRBANKS PARKING STRUCTURE

DBA-2-0130

FAIRBANKS, AK.

PETER KIEWIT SONS' CO.

RECOMMENDED

CONTRACTOR'S REP.

OWNER'S REP.

DATE

AS-BLT

LEVEL 2 FLOOR PLAN

A-2

SHEET 5 OF

Sign Mark	Qty.	Description	Mounting	Remarks
A	1 (ES 100 Series)	← CLOSED (Translucent) 18" x 42" - Solid acrylic plas. plaque w/stamped on letters (3"-black) plaque color - white	Anchor bolt - surface wall mount to conc.	Self-illuminated incandescent recp. Alum. frame finish - black duranodic. • Interior •
B	1 (100 Series)	← Parking Level ① (symbol) Restricted Parking → 18" x 12'-0" - Solid acrylic plas. plaque w/stamped on letters (3" - white) plaque color #10 (blue/black)	Suspended Type 'A'	See symbol types schedule - this sht. (Sim.)
C	1	Auto Exit ↑ (symbol) Parking Level Ⓛ → 18" x 12'-0" - Material, etc. same as sign 'B' above		
D	4	← Auto Exit / Auto Exit → / ↑ Auto Exit (2) each (1) each (1) each 18" x 42" each - Solid acrylic plas. plaques w/stamped on letters (3"-white) plaque color #10 (blue/black)	Liquid adhesive on conc. beam	
E		To Police & Fire Station / 7th and Barnette (1) each (1) each 18" x 42" - Material, etc. same as signs 'D' above VOID		
F	3	← Turn Left / ← Keep Right (2) each (1) each 18" x 42" - Material, etc. same as signs 'D' above	Suspended Type 'A'	See symbol types schedule - this sht.
G	2 (ES Series)	Keep Right → / ← Keep Right (1) each (1) each 18" x 42" - Solid acrylic plastic plaques w/stamped on letters (3"- white) plaque color #10 (Vomar)	Liquid adhesive on conc. beam	See symbol types schedule - this sht.
H	2	Standard aluminum yield sign ▽		
J	2 (100 Series)	← No Thru Traffic / No Thru Traffic → (1) each (1) each 18" x 42" Material, etc. same as signs 'G' above	Suspended Type 'A'	See symbol types schedule - this sht.
K		← Pedestrian Exit / Pedestrian Exit → ( ) each ( ) each 18" x 42" Material, etc. same as signs 'G' above VOID	Liquid adhesive on conc. beam	
L	3	↑ Parking Level ① (1) each ↑ Parking Level ② (1) each ← Parking Level ® (1) each 18" x 42" each - Material, etc. same as signs 'G' above	Liquid adhesive on conc. beam	
M	1 (ES 100 Series)	← ENTER 7'-4" CLEARANCE 18" x 48" - Solid acrylic (translucent) plas. plaque w/stamped on letters (3"-black all caps) plaque color - white	Anchor bolt - surface sleeve mount to conc.	Self-illuminated incandescent recp. Alum. frame finish black duranodic • Exterior •
N	1	Housing rates sign * 18" x 18" - Solid acrylic plas. bracketed plaque - bracket & frame finish (duranodic black) - plaque color (white)	Surface mount retaining channel to top of time punch device	*Vinyl die-cut letters (black) to be applied by owner @ later date
O	12 (100 Series)	elevator at level 2 (1) 12" x 12" - Solid acrylic plas. plaque w/stamped on letters (1" - white) plaque color #10 (Vomar)	Foam mount'g tape on plaster	
P	1	3" radius (7'-4" CLEARANCE) white, red 10" x 48" alum. free swinging sign painted as noted (3" black letters (vinyl die cut))	Secure hangars to met. furring channels in soffit - sign to be free swinging	
Q	4	* 36" x 48" solid acrylic plas. plaque w/stamped on letters (white) plaque color #10	Liquid adhesive on conc. columns	* See symbol types this sht. for wording & letter sizes

General Notes:

1. All order numbers by Vomar Industries
2. All type style to be Helvetica Medium w/ "tight" spacing - caps & lower case as indicated on schedule
3. All plaques 100 series (unframed) unless otherwise noted - corners to be square
4. Bottom edge of signs at bott edge of beam typ (adhes. & susp. mount'g)
5. Submit shop drawings of all signs to architect for review

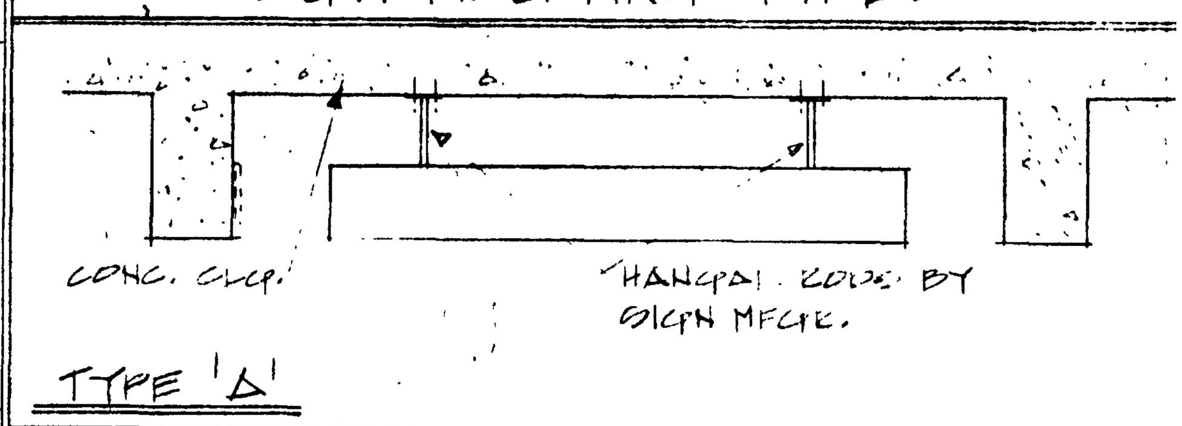
Color Schedule

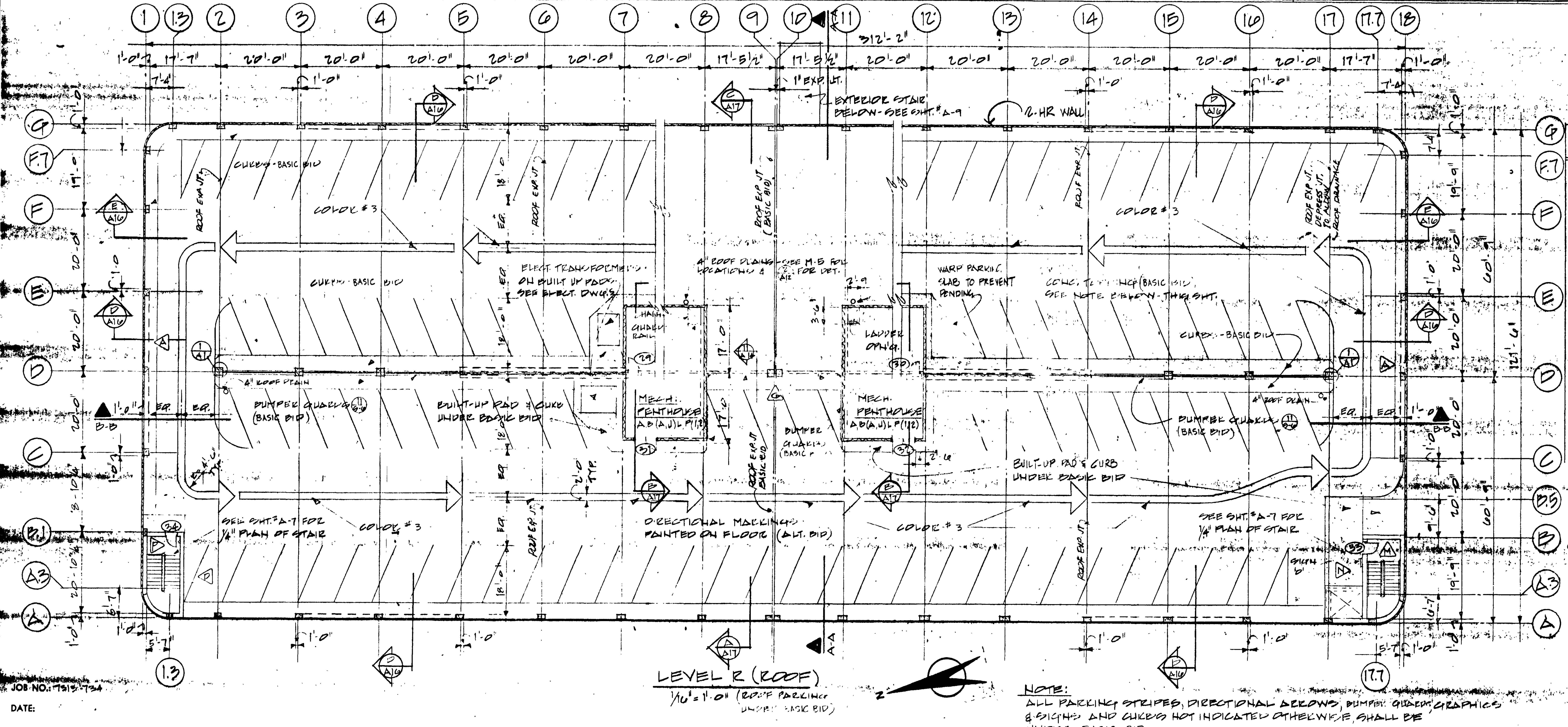
Level	Color #	Hue
L (Lower)	1a.	Samples to be submitted by architect
1	1	
2	2	
R (Roof)	3	

1. Color #'s refer to wall graphics & floor arrows (see elev's & flr. plans for layout)
2. Paint all parking stripes white - see note #2 sht. A-2

GRAY ROGERS MYERS & MORGAN
A DIVISION OF ELLERBE

Sign Mounting Types

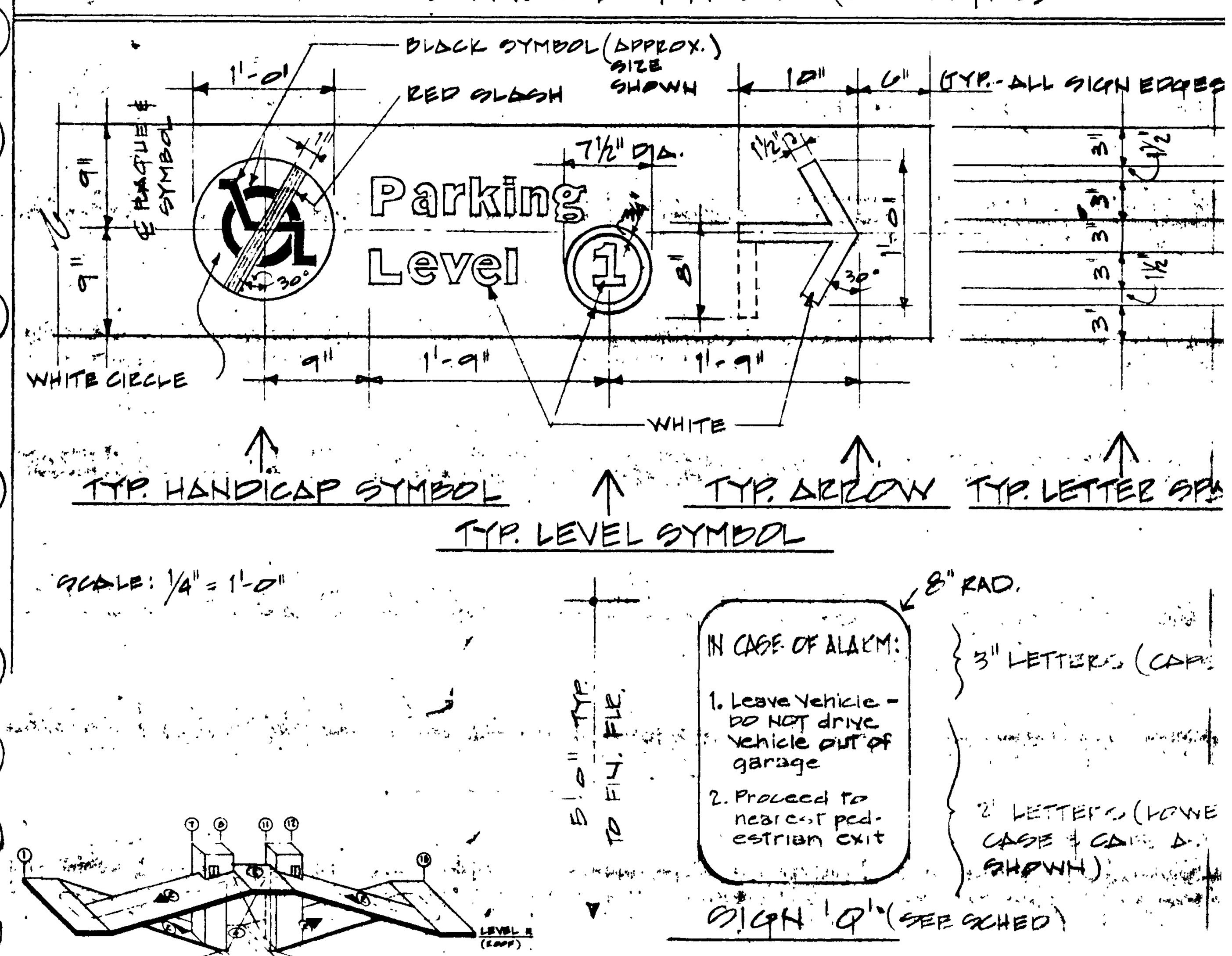


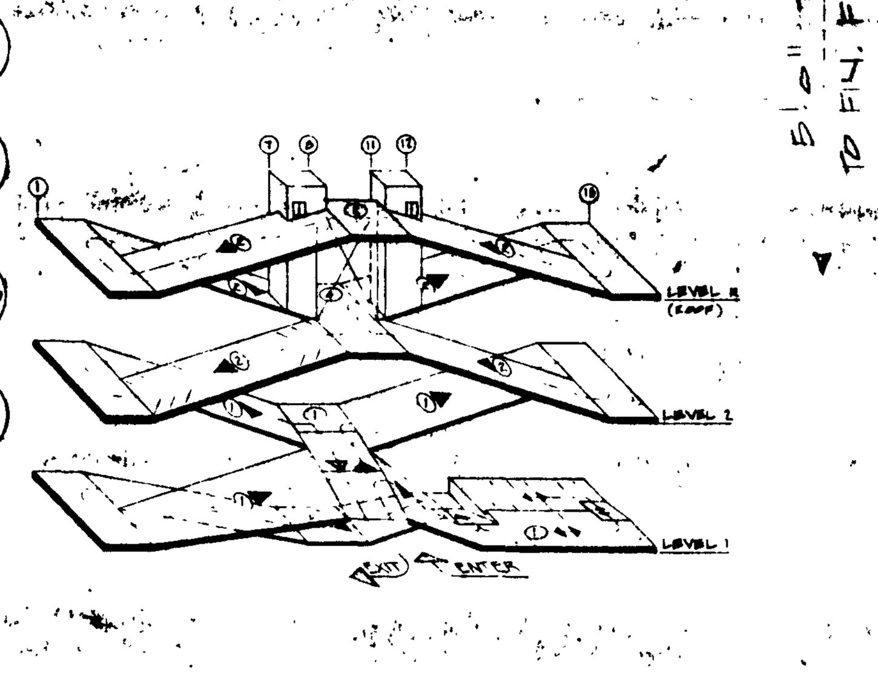


LEVEL R (ROOF)
1/16" = 1'-0" (Roof parking under basic bid)

NOTE:
All parking stripes, directional arrows, bumper guards, graphics & signs and curbs not indicated otherwise, shall be under basic bid.

Symbol Types (All Signs)





JOB NO.: 7515-734
DATE:

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LEVEL R (ROOF) FLOOR PLAN & SIGN SCHEDULE

State of Alaska, Kenneth Mahal, No. 2184-A, Registered Professional Architect
State of Alaska, 49th, No. 1848-A, Aug. 11, 1969, Registered Professional Architect

STATE OF ALASKA
DEPT. OF PUBLIC WORKS
DIVISION OF BUILDINGS
JUNEAU ALASKA

FAIRBANKS PARKING STRUCTURE

DBA-2-0130

FAIRBANKS, AK.

PETER KIEWIT SONS' CO.
Alaska
Recommended:
Approved:
Date:
AS-BLT

A-3
SHEET 6 OF

EXTERIOR ELEVATIONS

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FAIRBANKS PARKING STRUCTURE

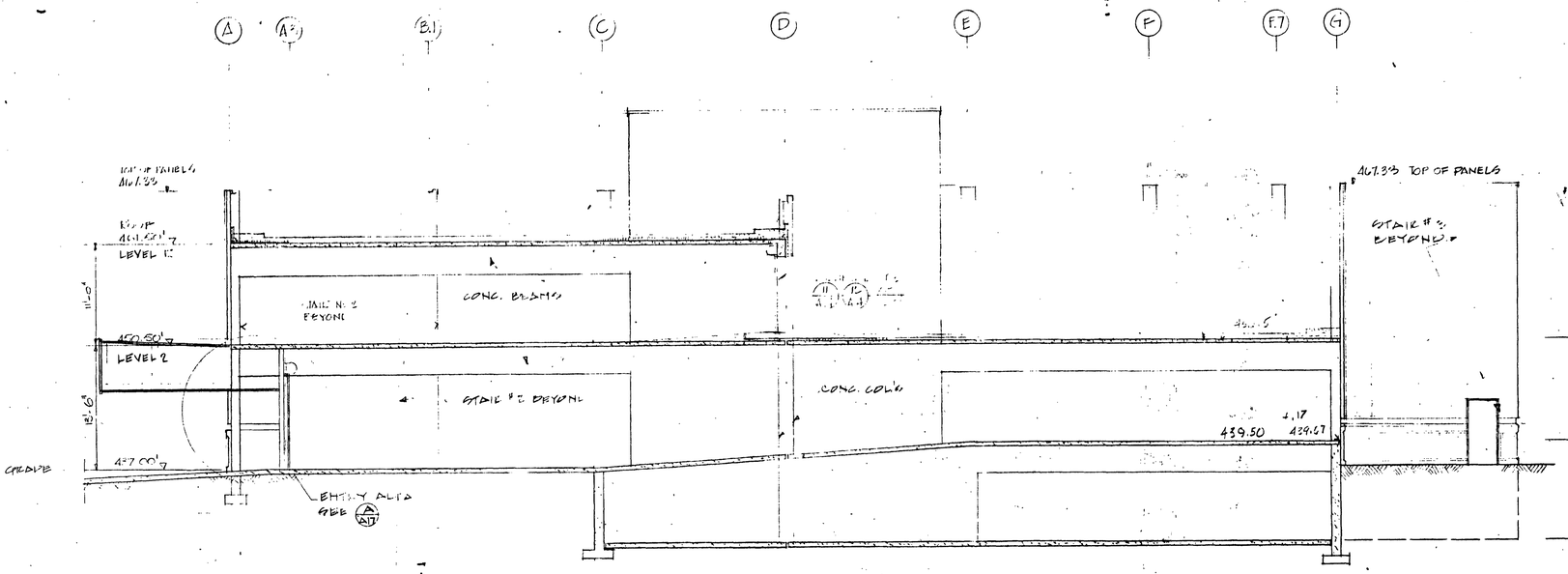
DBA-2-0130

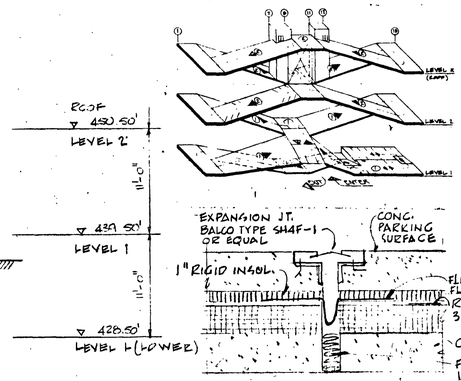
FAIRBANKS, AK.

AS-BUILT

A-4

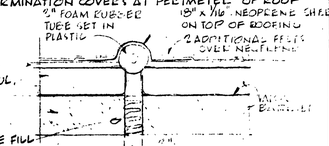
SHEET 7 OF 49





BUILDING SECTION A-A
1/8" = 1'-0"

1 / A-5 ROOF EXP. JT. - BASIC BID
1 1/2" = 1'



2 / A-5 ROOF EXP. JT.- BASIC BID
1 1/2" = 1'-0"

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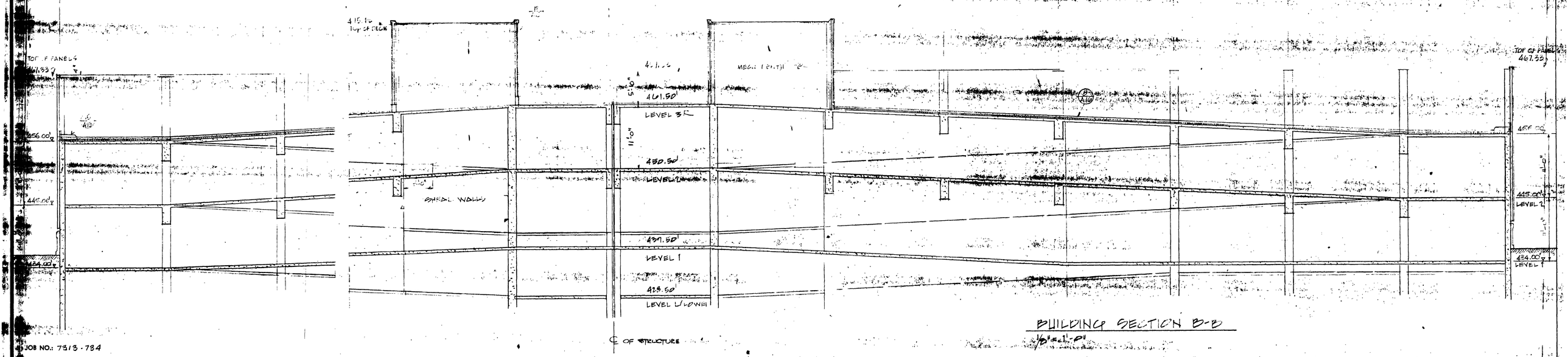
WHERE TEES ARE REQUIRED IN THE EXPANSION JT. SYSTEM, THE EXP. JT. MUST CONFORM TO THE DESIGN AND DIMENSIONS SHOWN BELOW. PROVIDE STANDARD END TERMINATION COVERS AT PERIMETER OF ROOF

1 2 3 7 8 9 10 9 12 13 14 15 16 17 18

MECH. PENTHOUSE
SEE SHEET S-9 FOR PLAN AND ELEVATION



BUILDING SECTION B-B
1/8" = 1'-0"

JOB NO.: 7313-734
DATE: 6-27-74

BUILDING SECTIONS

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FAIRBANKS PARKING STRUCTURE

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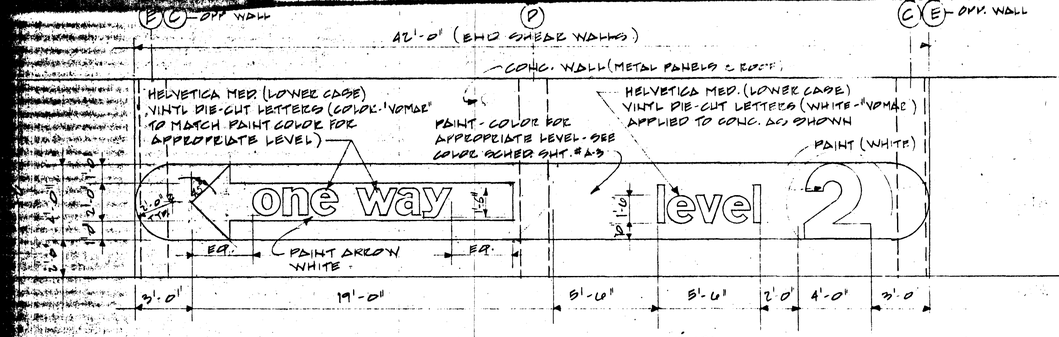
A-5

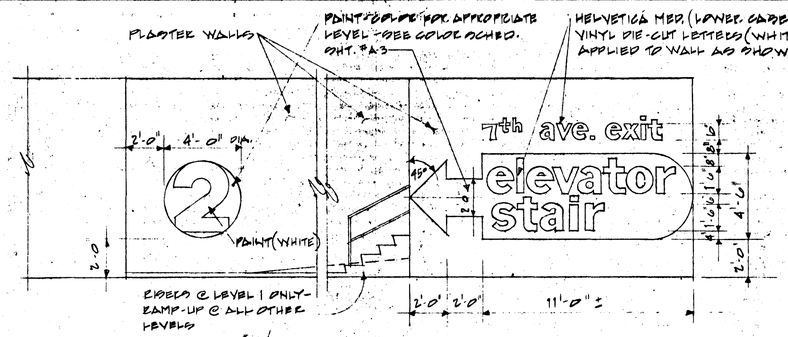
SHEET 8 OF 49

R-3916

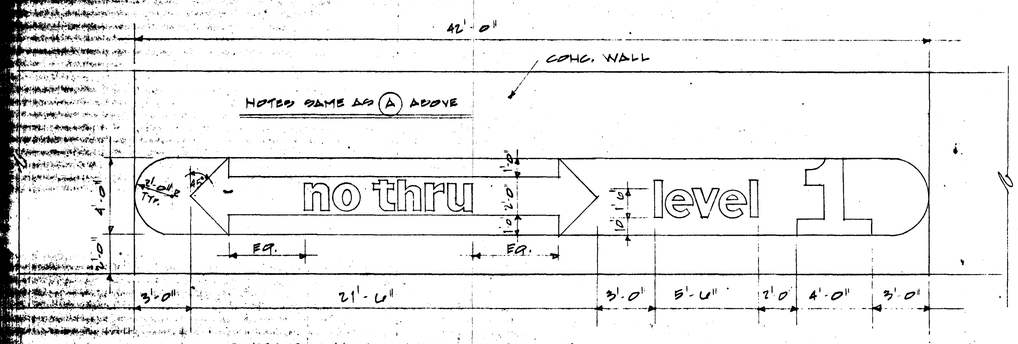


A SHEAR WALL ENDS - LEVELS 2 & R
1/4" = 1'-0"

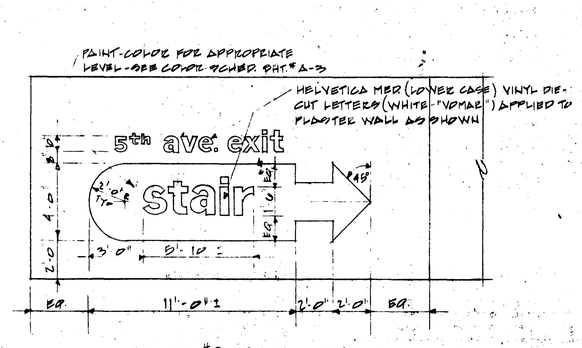
NOTE:
@ LEVEL R (ROOF) PAINT GRAPHICS ON METAL PANELS & COLUMNS (SHOWN DOTTED) - ADJUST "ONE-WAY" ARROW TO FIT BETWEEN COL'S



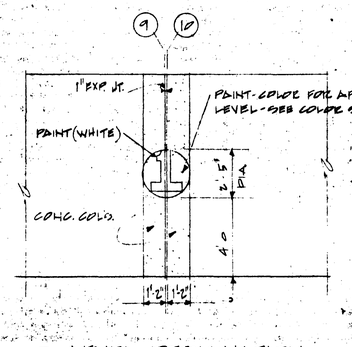
B STAIR #1 / ELEVATOR EXITS - LEVELS 1 & 2
1/4" = 1'-0"



C SHEAR WALL ENDS - LEVEL 1
1/4" = 1'-0"



D STAIR #2 EXIT - LEVELS 1 - R
1/4" = 1'-0"



E LEVEL DESIGNATION
1/4" = 1'-0"

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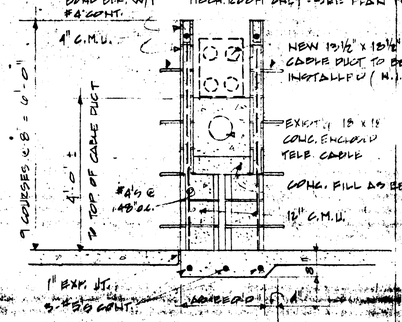
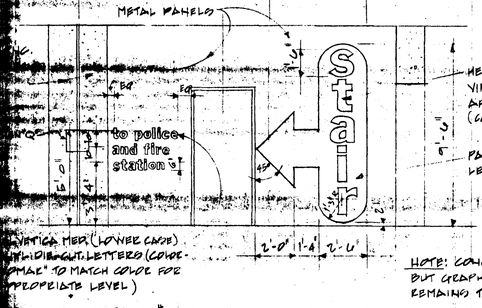
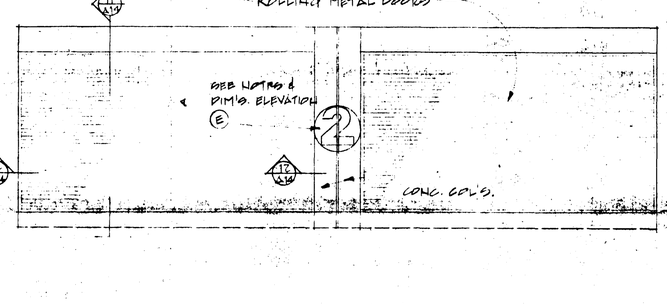


A/L SECTION - C.M.U. (UTILIDOR) WALL
1½" = 1'-0"

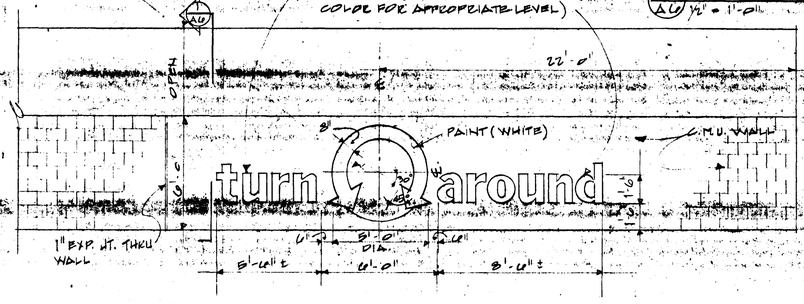


F STAIR #3 EXIT - LEVELS L - R
1/4" = 1'-0"

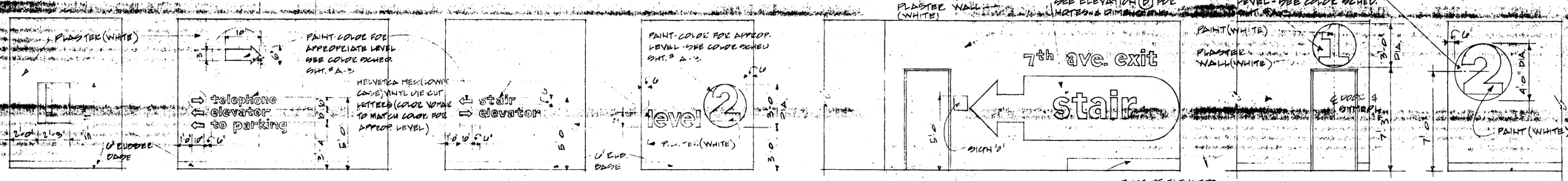
NOTE: CONC. WALLS @ LOWER LEVEL (L) BUT GRAPHICS RELATIONSHIP TO DOOR REMAINS THE SAME



G WINTER DOORS - LEVEL 2



H UTILIDOR WALL - LEVEL L
1/4" = 1'-0"



J TELEPHONE
1/4" = 1'-0"

K NORTH - STAIR #1
1/4" = 1'-0"

L SOUTH - STAIR #1
1/4" = 1'-0"

M EAST - STAIR #3
1/4" = 1'-0"

N STAIR #1 EXIT - LEVEL R
1/4" = 1'-0"

O SYMBOL OVER DR. - (STAIR #1)
1/4" = 1'-0"

P SOUTH - STAIR #2
1/4" = 1'-0"

INTERIOR ELEVATIONS

NO.
DATE:

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JUNEAU ALASKA

FAIRBANKS PARKING STRUCTURE

DBA-2-0130

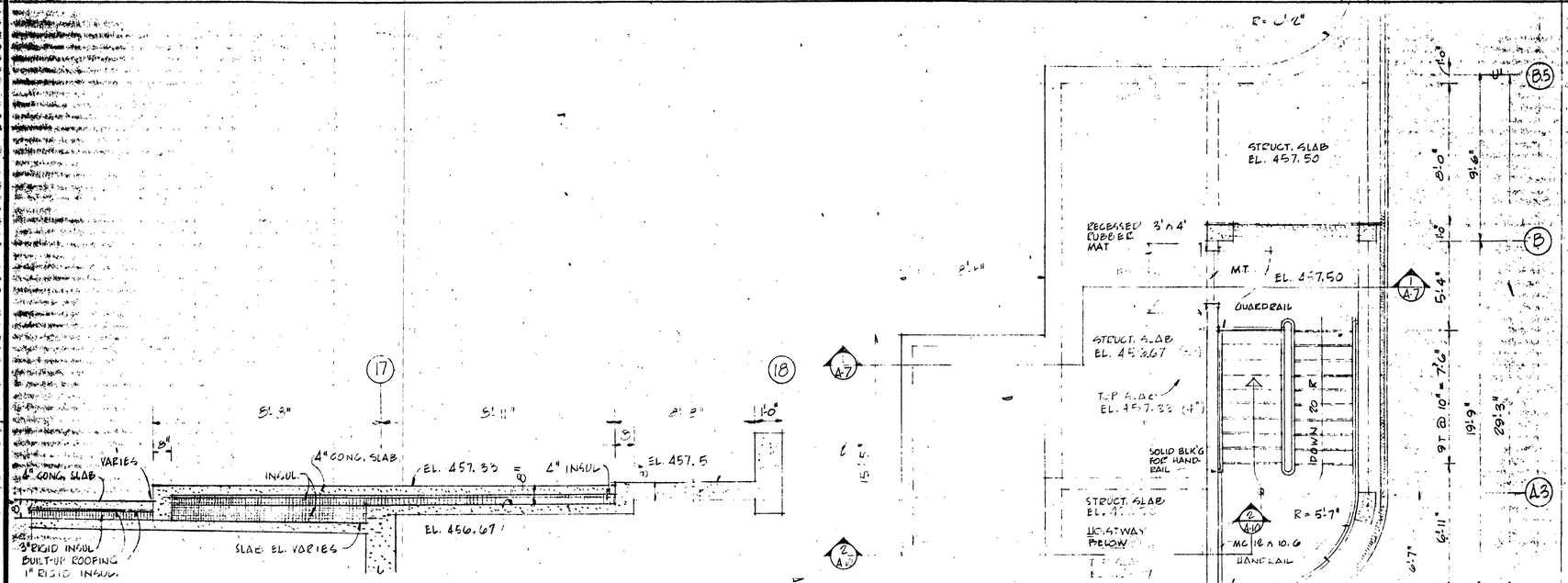
FAIRBANKS, AK.

PETER KIEWIT SONS' CO.
EAT ALASKA
RE
W. Hoopl CON. RACTOR'S REP.
OWNER' REP.
DATE:
AS-BLT

A-6

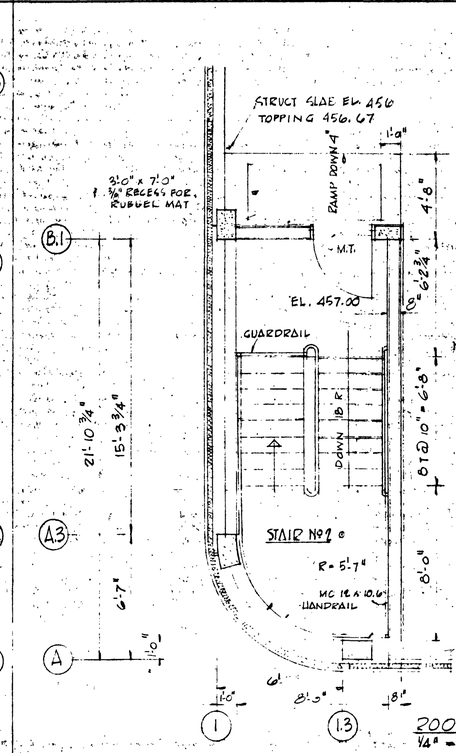
SHEET 9 OF 49

R-3946



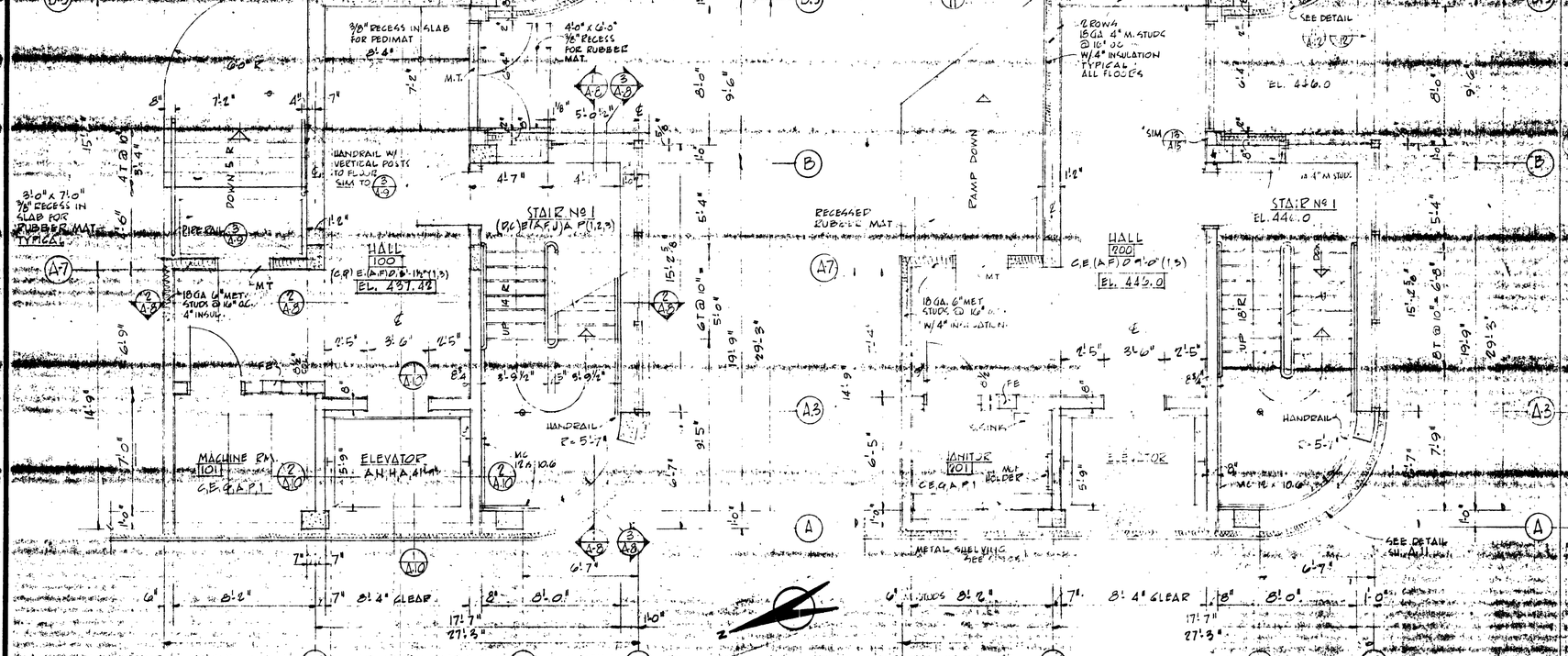
1 / A7 SECTION - ROOF LEVEL SEE PLAN
SHOWING CONST FOR FUTURE WALL
3/8" = 1'-0"

ROOF LEVEL
1/4" = 1'-0"



STAIR DETAILS: SH. A-10
SEE SH. A-9 STAIR No 2 SIMILAR
HANDRAILS, CONSTRUCTION, ETC.
SEE STRUCT. SECT 5/S2

2 ROOF LEVEL
1/4" = 1'-0"



LEVEL ONE
1/4" = 1'-0"

STAIR No 1

LEVEL TWO
1/4" = 1'-0"

STAIR No 2

LEVEL ONE
1/4" = 1'-0"

LEVEL TWO
1/4" = 1'-0"

JOB NO.: 7813-734
DATE: 7-14

STAIRS No. 1 &

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STATE OF ALASKA
49TH
Kenneth Mahli
No. 2134-A
REGISTERED PROFESSIONAL ARCHITECT

STATE OF ALASKA
49TH
Reg. No. 1148
REGISTERED PROFESSIONAL ARCHITECT

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FAIRBANKS PARKING STRUCTURE

DBA-2-0130

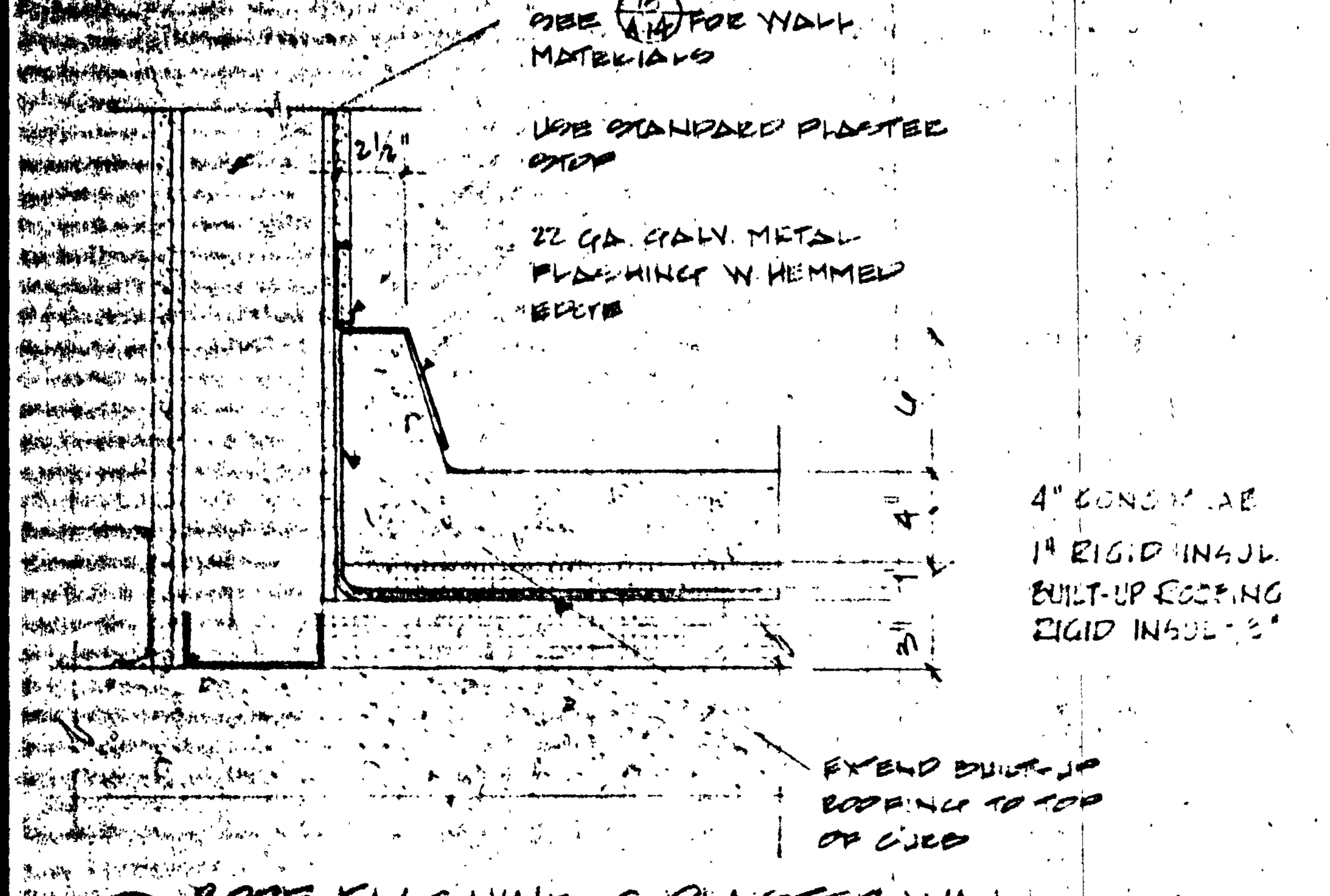
FAIRBANKS, AK.

PETER KIEWIT SONS' CO.
FAIRBANKS ALASKA
RECEIVED
W.J. Hoepfl CONTRACTOR'S
OWNER'S REP.
DATE
AS-BLT

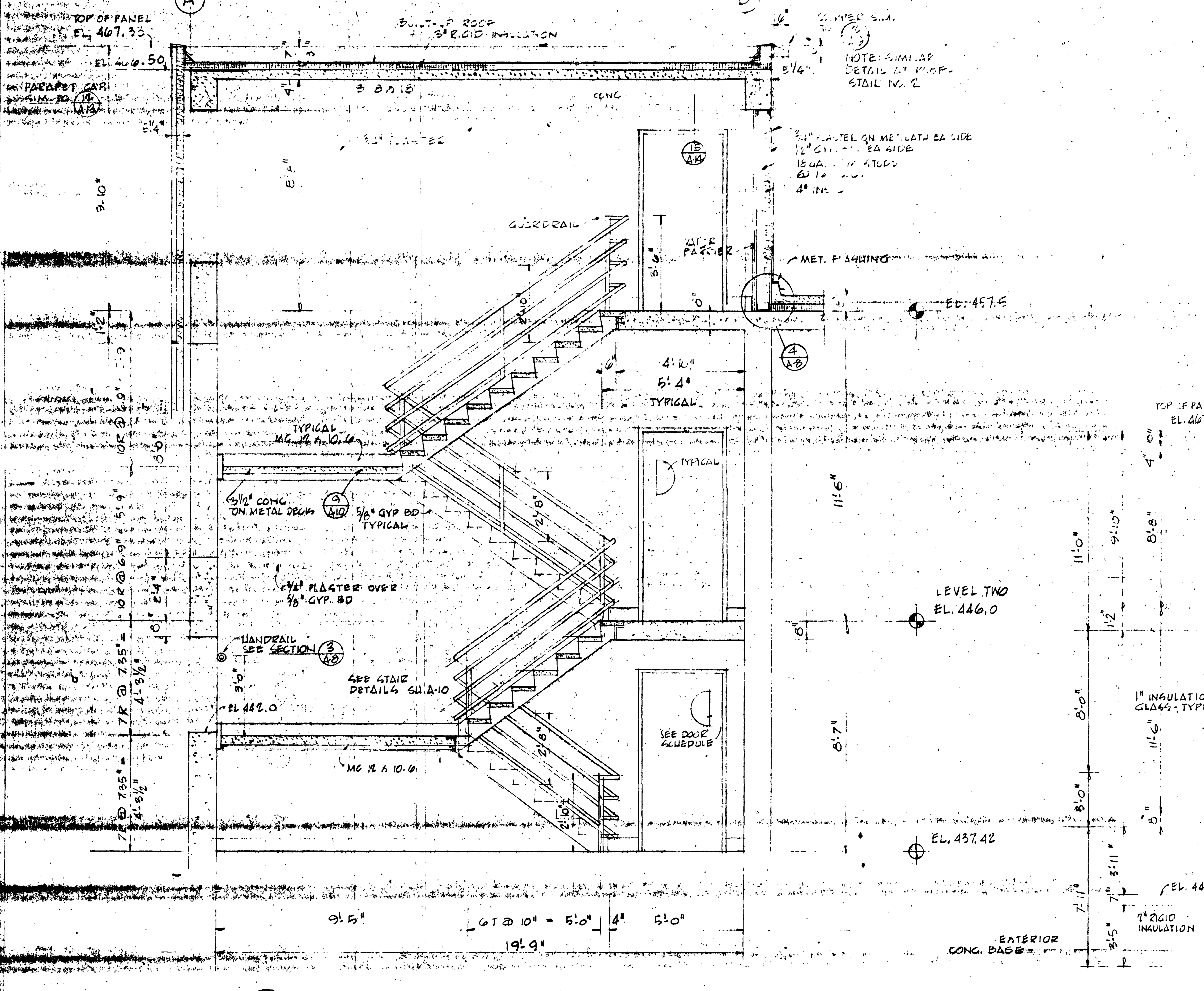
GRAY ROGERS MYERS & MORGAN
A DIVISION OF ELLERB

A-7

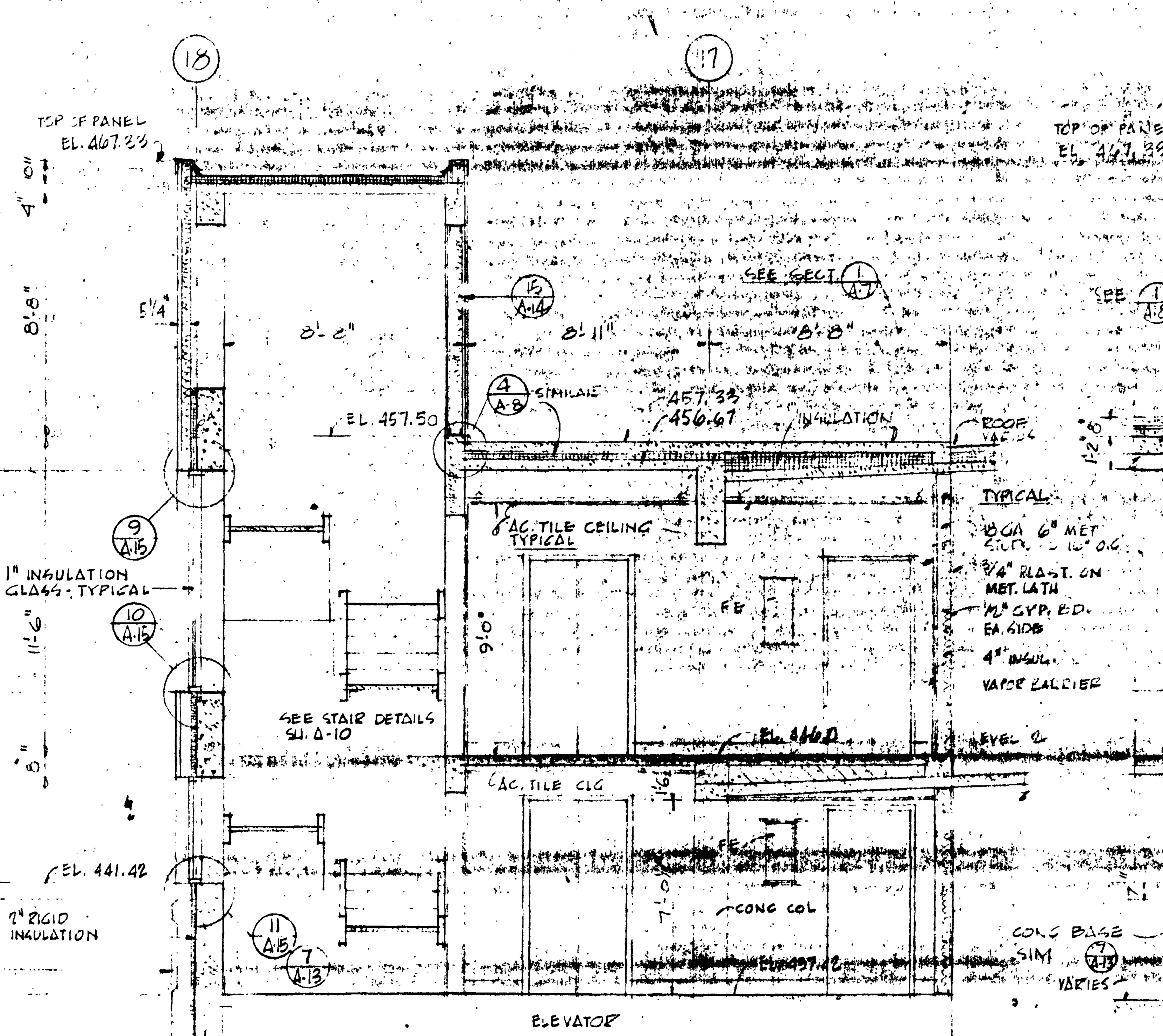
SHEET 10 OF



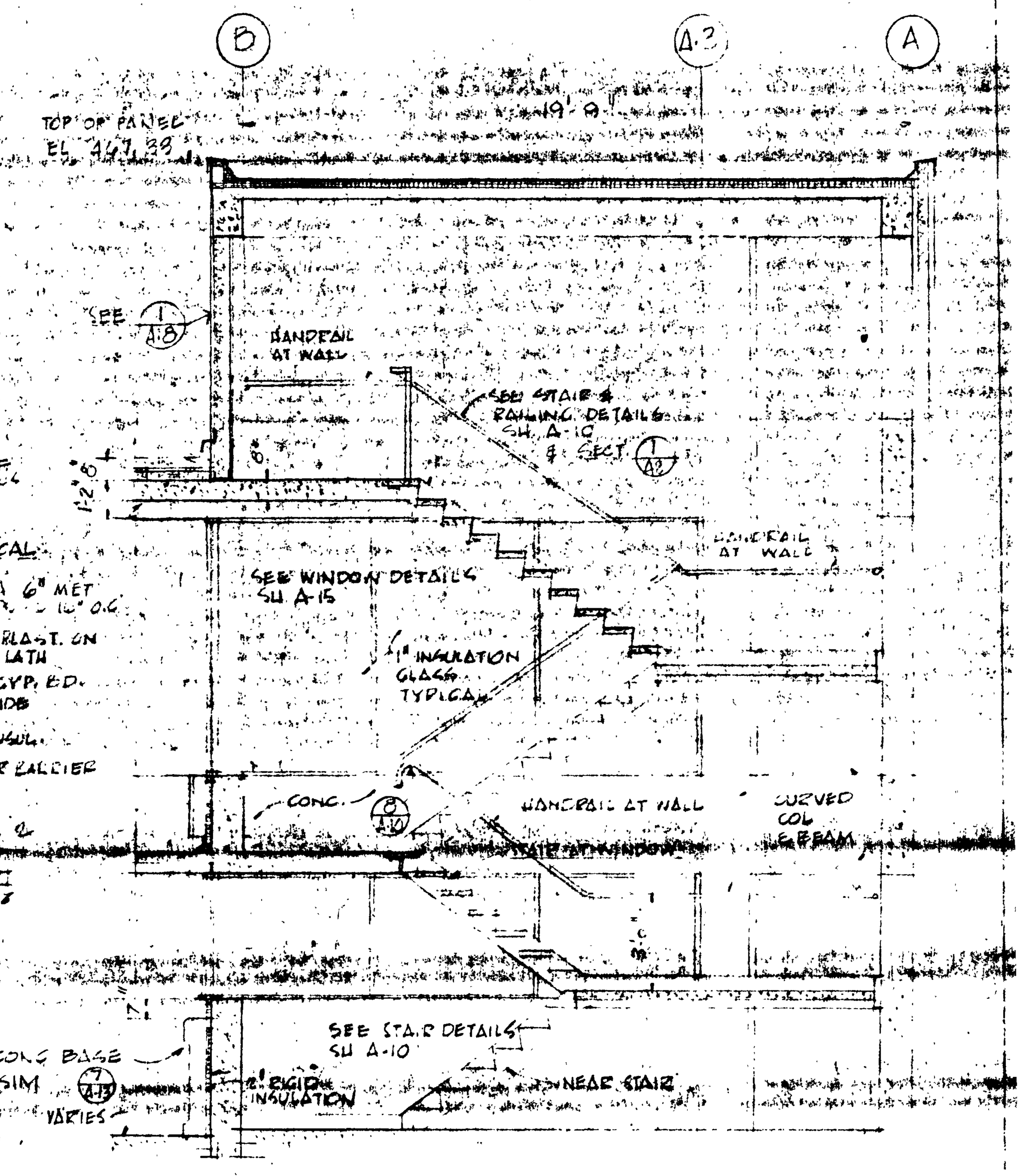
4/A-8 ROOF FLASHING @ PLASTER WALL
1½" = 1'-0"



1/A-8 SECTION - STAIR No 1
3/8" = 1'-0" SEE SHEET No A7 FOR FLOOR PLANS



2/A-8 SECTION STAIR No 1
1/4" = 1'-0"



3/A-8 SECTION STAIR No 1
1/4" = 1'-0"

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A DIVISION OF ELLERBE

JOB NO.: 7313-734

DATE:

SECTIONS, STAIR No.

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FAIRBANKS ALASKA
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OWNER'S REP
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A-8

SHEET 11 OF

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A-9

SHEET 12 OF

GRAY ROGERS MYERS & MORGAN
A DIVISION OF ELLERBE

JOB NO. 7313-73A
DATE: 6-27-74

ELEVATOR HOISTWAY SECTIONS
STAIR DETAIL

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A-10

SHEET 13 OF 4-

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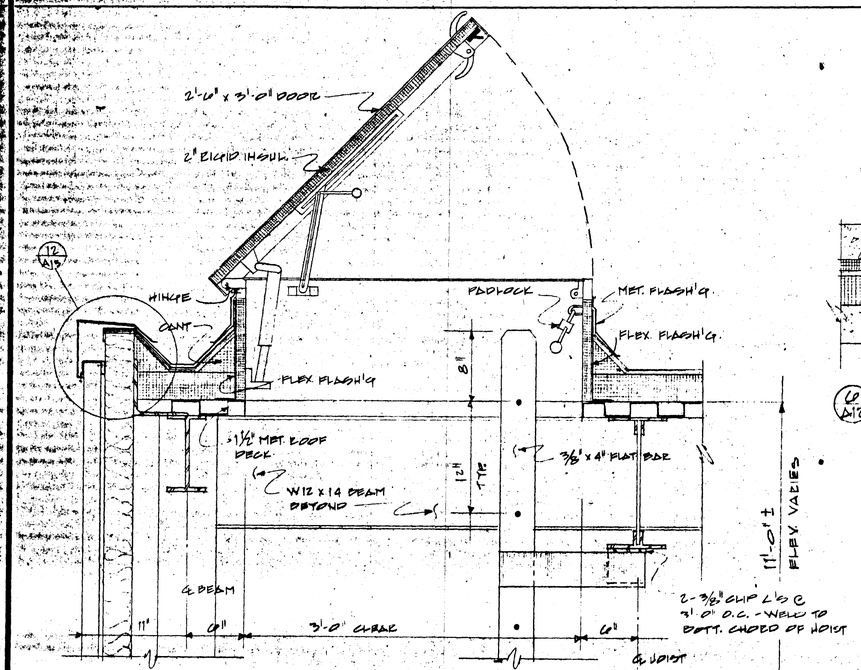
PETER KIEWIT SONS' CO.
FAIRBANKS ALASKA

INSULATED METAL WALL DE

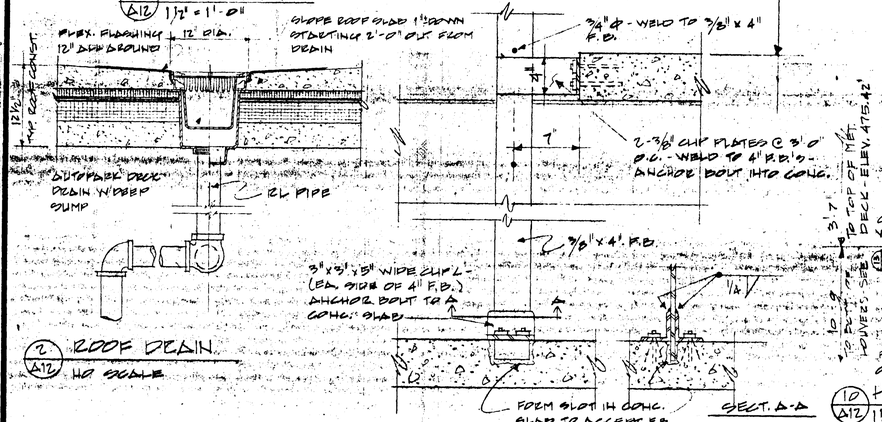
A-1

AS-BLT

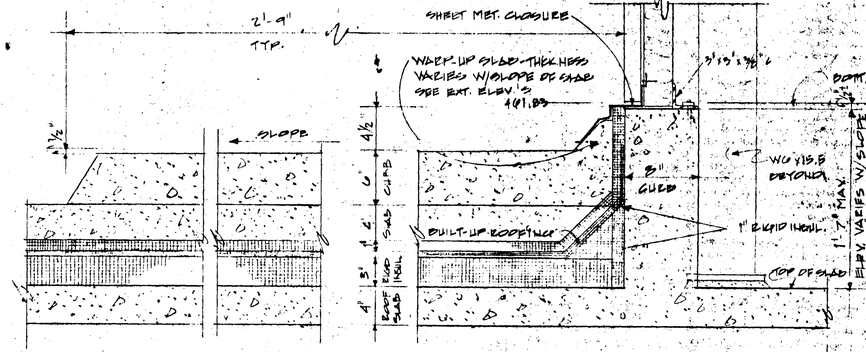
SHEET 14 O



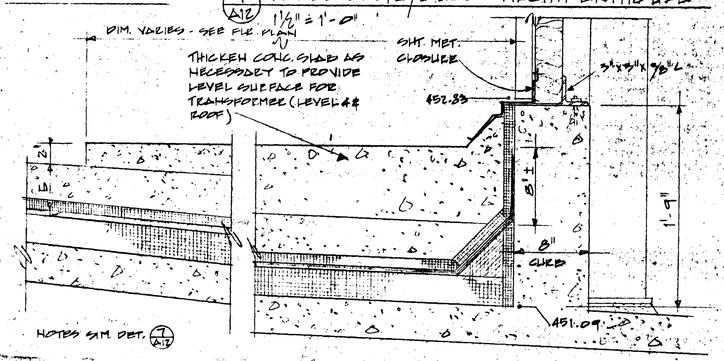
1 A12 ROOF HATCH
1½" = 1'-0"



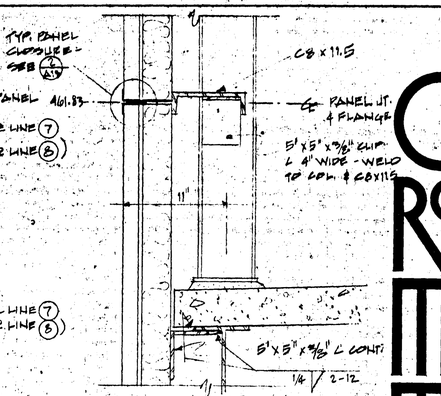
2 A12 ROOF DRAIN
NO SCALE



6 A12 TYP. BUILT-UP CURB @ ROOF
1½" = 1'-0"



7 A12 PANEL EDGE/CURB - MECH. PENTHOUSE
1½" = 1'-0"

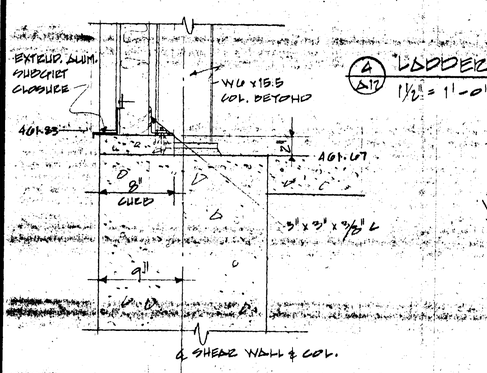


12 A12 PANEL CONN. - EAST & SOUTH WALL
1½" = 1'-0" 18

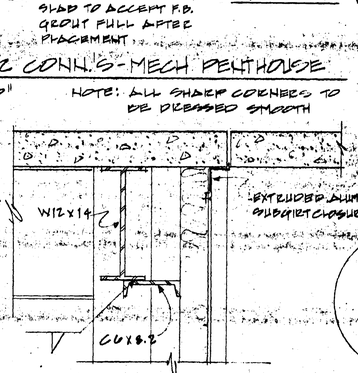
10 A12 HEAD @ MECH. LOUVERS
1½" = 1'-0"

8 A12 TRANSFORMER SLAB - LEVEL 2
1½" = 1'-0"

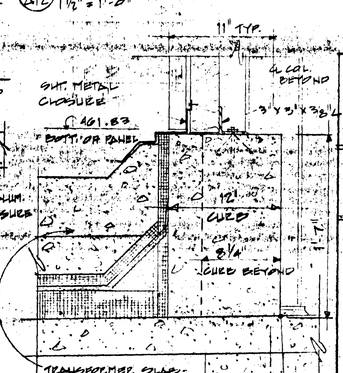
13 A12 MECH. LOUVERS @ 8'-2¼" CURB



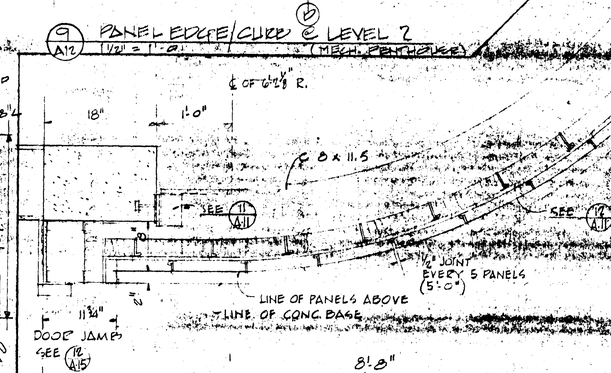
4 A12 LADDER CONN'S - MECH PENTHOUSE
1½" = 1'-0"



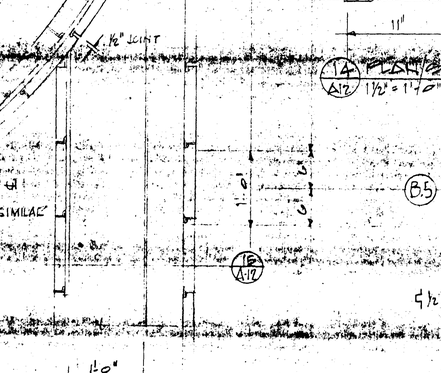
5 A12 PANEL CLOSURE - WEST WALL
1½" = 1'-0" (MECH. PENTHOUSE)



10a A12 MECH. LOUVERS @ TRANSF. PAD
1½" = 1'-0"



11 A12 CURVED WALL AT ENTRANCE ADJACENT TO STAIR No 1
1" = 1'-0"



15 A12 BEAM DETAIL
1" = 1'-0"

14 A12 PLAN DET. @ CORNERS
1½" = 1'-0"

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FAIRBANKS PARKING STRUCTURE

DBA - 2 - 0130

FAIRBANKS, AK.

PETER KIEWIT SONS' CO.
FAIRBANKS ALASKA
COMMENCED: PROVED:
CONTRACTOR
DATE:

A-12

AS-BLT SHEET 15

GRAY ROGERS MYERS & MORGAN
A DIVISION OF ELLERBE

INSULATED METAL WALL D
& MISC. DETAILS

JOB NO.: DATE: 6-27-76

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FAIRBANKS PARKING STRUCTURE

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PETER KIEWIT SONS' CO.

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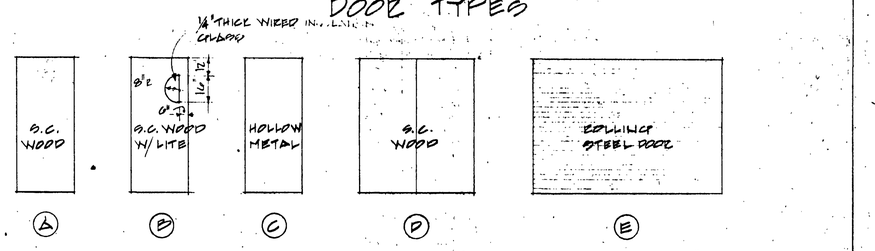
A-13

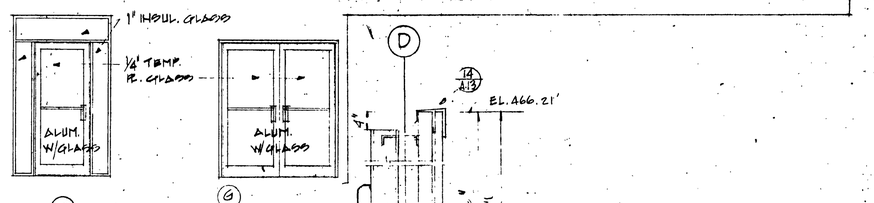
SHEET 16

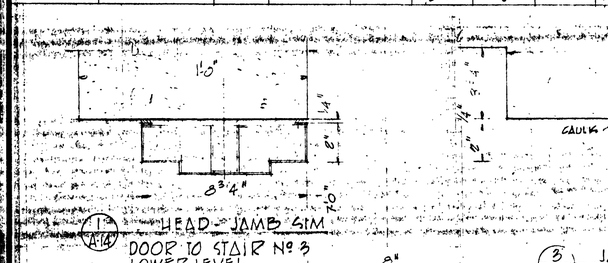
DOOR SCHEDULE

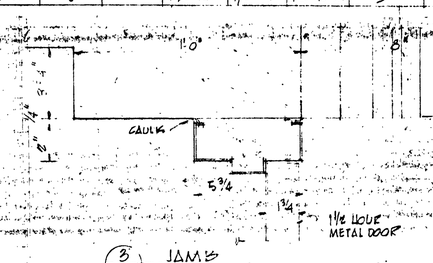
NUMBER	SIZE	TYPE	FRAME	LOUVR. SIZE	U.L. LABEL	FRAME FINISH	COLOR	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	HARDWARE TYPE	SIGNS	REMARKS
1	3'-0" x 7'-0" x 1¾"	B	H.M.		1½ HR.	PAINT		1/A-14	1/A-14		1		
2	"	B	"		"	"		2/A-14	2/A-14		1		
3	3'-0" x 6'-8" x 1¾"	C			"			5/A-14	3/A-14	4/A-14	2		
4	3'-0" x 7'-0" x 1¾"	A			—			5/A-14	3/A-14	4/A-14	3		
5	"	A	"		—	"		5/A-14	3/A-14	4/A-14	3		
6	"	F	ALUM.		—	ANOD.		2/A-15	2/A-15 3/A-15		4		"CRONCOLITE" MEDIUM STILE DR.
7	3'-0" x 6'-8" x 1¾"	D	H.M.		1½ HR.	PAINT		6/A-14	6/A-14		1		
8	3'-0" x 7'-0" x 1¾"	B			"	"		9/A-14	9/A-14		1		
9	"	A	"		—	"		8/A-14	8/A-14		5		
10	3'-0" x 6'-8" x 1¾"	D	"		1½ HR.	"		7/A-14	7/A-14		6		
11	PR. 3'-0" x 7'-0" x 1¾"	G	ALUM.		—	ANOD.		7/A-15	12/A-15 13/A-15	8/A-15	7		"CRONCOLITE" MEDIUM STILE DR.
22	3'-0" x 6'-8" x 1¾	B	H.M.		1½ HR.	PAINT		2/A-14	2/A-14		1		
23	"	"	"		"	"		9/A-14	9/A-14		1		
24	"	"	"		"	"		7/A-14	9/A-14		1		
25	"	A	"		—	"		8/A-14	8/A-14		8		
26	14'-10⅜" x 8'-3"	E	STEEL LS		—			11/A-14	12/A-14		9		COORDOOR
27	14'-10⅜" x 8'-3"	E	STEEL LS		—			11/A-14	11/A-14		9		"
28	3'-0" x 6'-8" x 1¾	D	H.M.		1½ HR.			6/A-14	6/A-14		1		
29	12'-6" x 7'-0" x 1¾	A			—			13/A-14	13/A-14	14/A-14	10		SIM. 11/A-12 FOR CONC. STEPS
30	"	A	"		—			13/A-14	13/A-14	14/A-14	10		
31	PR. 3'-0" x 7'-0" x 1¾	D	"		—			13/A-14	13/A-14	14/A-14	11		
32	"	D	"		—			13/A-14	13/A-14	14/A-14	11		
33	3'-0" x 7'-0" x 1¾	B	"		1½ HR.			13/A-14	5/A-14	4/A-14 SIM	12		
34	3'-0" x 6'-8" x 1¾	B	"		"			6/A-14	6/A-14	4/A-14 SIM	1		
35	12'-6½" x 10'-8½"	E	STEEL LS		—			9/A-17	6/A-17		9		"COORDOOR"
36	12'-6½" x 10'-8½"	E	STEEL LS		—			9/A-17	6/A-17		9		
37	3'-0" x 7'-0" x 1¾	C	H.M.		—		—	7/A-14 SIM	7/A-14 SIM		12		
38		G			—		—	7/A-14 SIM	7/A-14 SIM		10		
39		A			1½ HR			1/A-14	1/A-14	4/A-14 SIM	3		

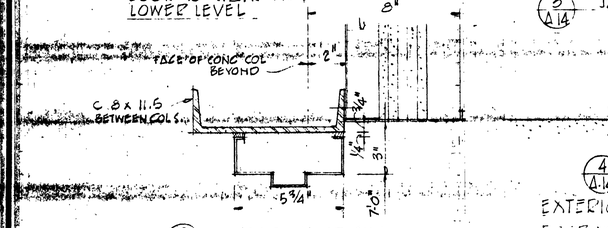
DOOR TYPES

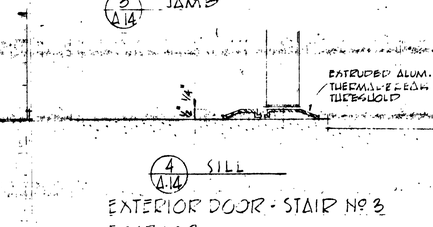


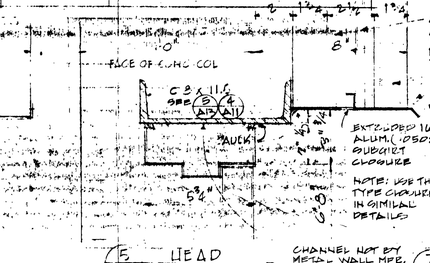


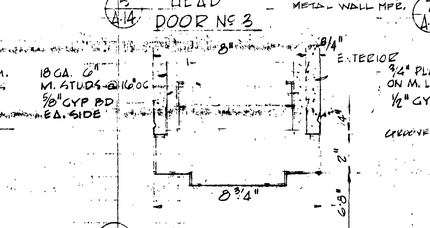


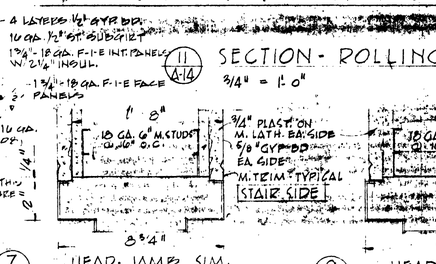


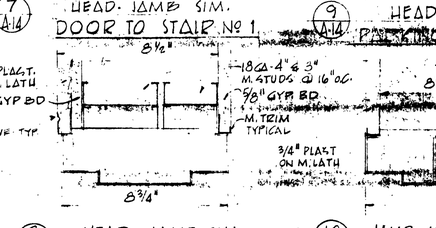


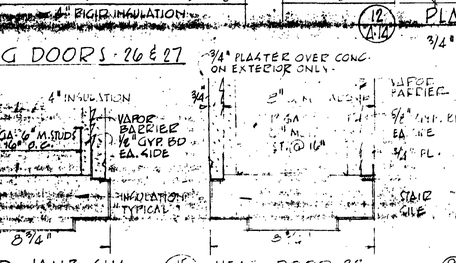


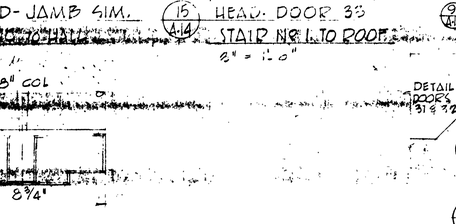


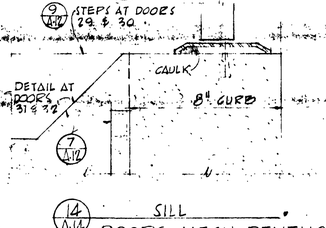












GRAY ROGERS MYERS & MORGAN

A DIVISION OF ELLERBE

DOOR SCHEDULE & DETA

JOB NO: 7313-734
DATE: 6-27-74

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JUNEAU ALASKA

FAIRBANKS PARKING STRUCTURE

DBA-2-0130

FAIRBANKS, AK.

PETER KIEWIT SONS' CO.
FAIRBANKS ALASKA
RECOMMENDED: APPROVED:

A-14

AS-BLT SHEET 18 OF


ELEVATION - DOOR TO STAIR # 2
1/4" = 1'-0"
JAMB
DOOR JAMB
DOOR JAMB
SIDELIGHT JAMB
MULLION
JAMB
HEAD
SILL
DOORS AT ENTRANCE - STAIR No 1
HEAD
SILL AT UPSET BEAM
SILL
JAMB
DOOR & WINDOW JAMBS
HEAD - TRANSOM
DOOR HEAD & TRANSOM AT STAIR No 2
CORNER
MULLION
MULLION
JAMB
1/4" TEMPERED PLATE GLASS
1" INSULATION GLASS
2" RIGID INSULATION
EXTRUDED ALUM. THERMAL-BREAK TUBESILL
3/8 RECESS FOR PEDIMAT
3/8" RECESS FOR RUBBER FL. MAT
12 x 36 UPSET BEAM
1" INSULATION GLASS TYPICAL - ALL WINDOWS
EL. 446.0
EL. 441.52
B 8 x 16
C 8 x 11.5
C 6 x 8.2
CONC BASE
CURVED COL. SEE FL. PLAN
F.I.E 18 GA 1 3/4 x 12 FACE PANELS
16 GA 1/2" SUBGIRT
WINDOW SILL
CAULK
ALUM.
WINDOWS & DOOR - STAIR No 2
3" = 1'-0"
WINDOWS & DOORS - STAIR No 1
3" = 1'-0"
GRAY ROGERS MYERS & MORGAN
A DIVISION OF ELLERBE

JOB NO.: 7313-734

DATE:

DOOR & WINDOW DETA

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FAIRBANKS PARKING STRUCTURE

DBA-2-0130

FAIRBANKS, AK.

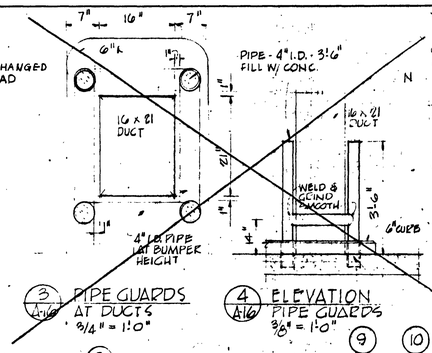
PETER KIEWIT SONS' CO.
FAIRBANKS ALASKA

AS-BLT

A-15

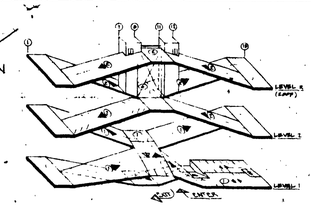
SHEET 17 OF

DELETED
AIR CURTAIN CHANGED TO OVERHEAD
SEE (E5/A16) & (A/A17)



(3) A-16 PIPE GUARDS AT DUCTS 3/4" = 1'-0"

(4) A16 ELEVATION PIPE GUARDS 3/8" = 1'-0"



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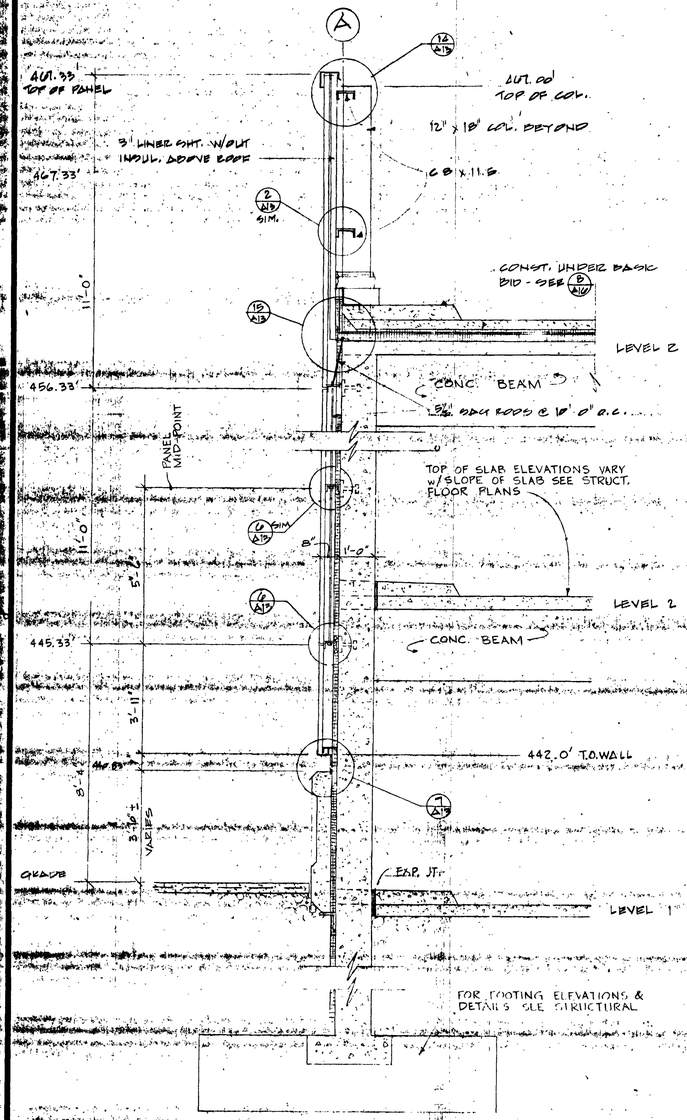
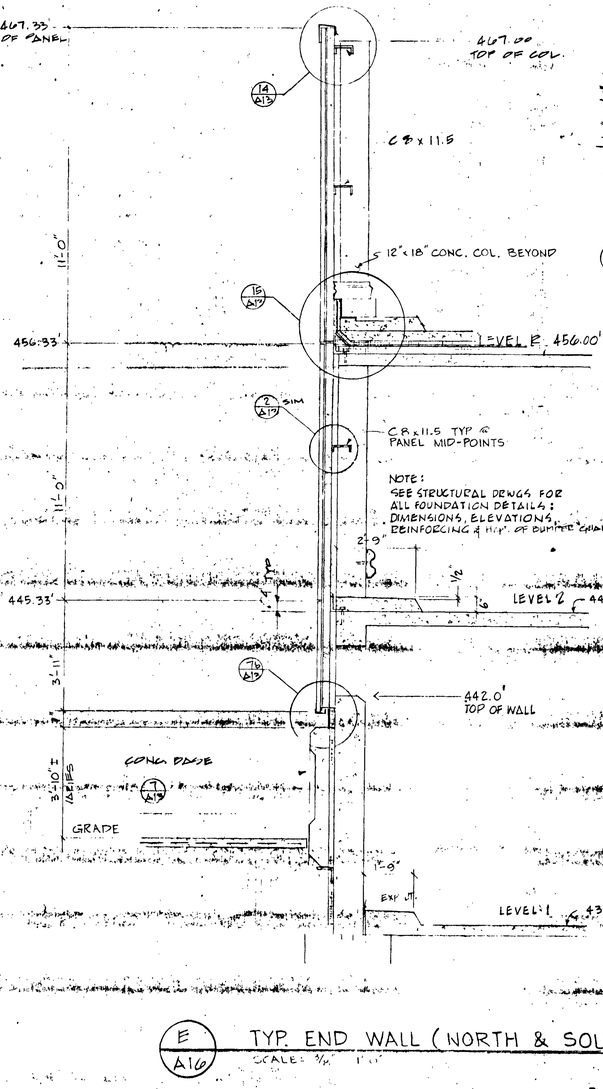
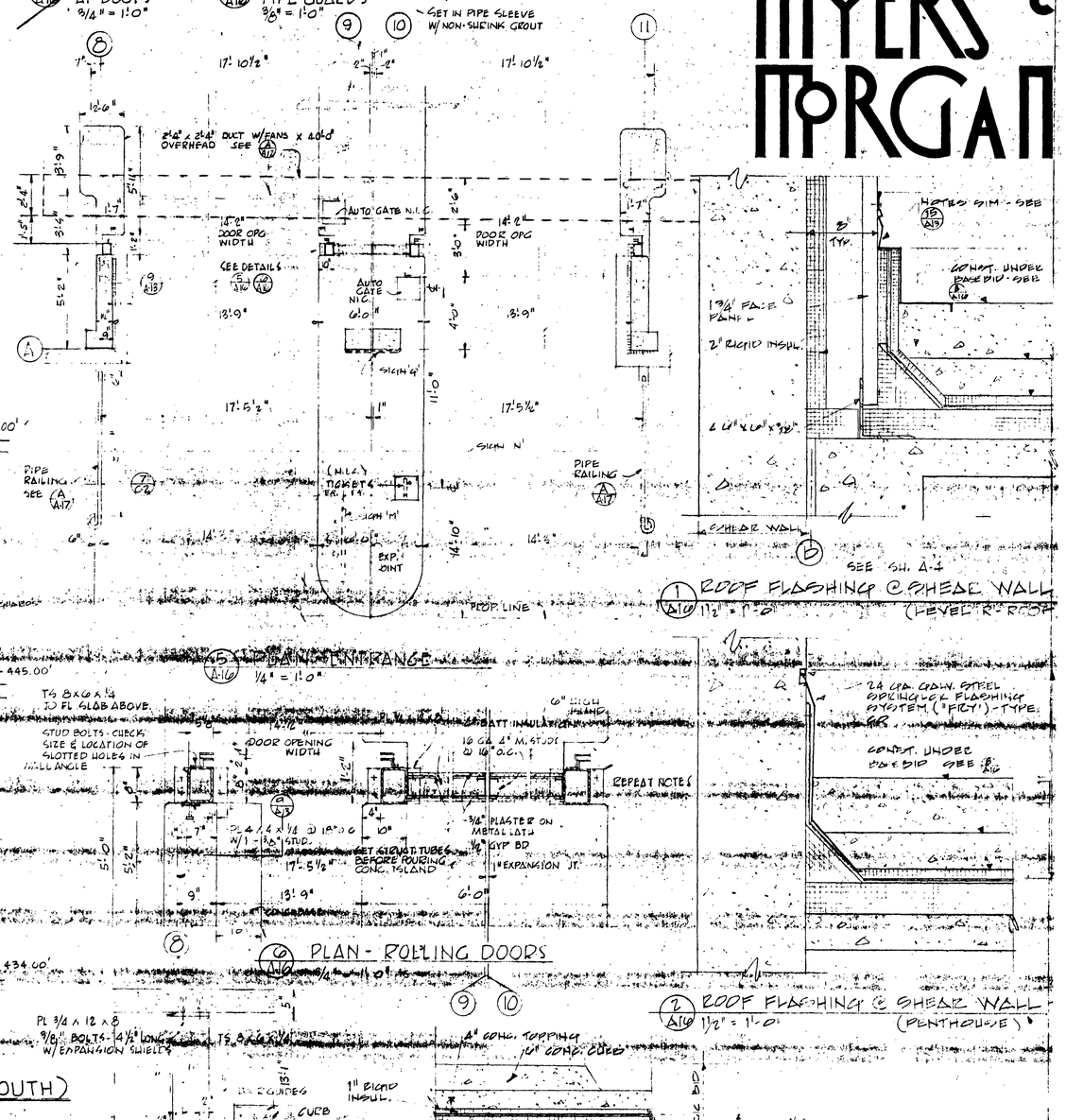


(P A16) TYP. SHEAR WALL (PANEL ELEV.'S FOR WEST WALL SHOWN)
SCALE: 3/8" = 1'-0"



(E A16) TYP. END WALL (NORTH & SOUTH)
SCALE: 3/8" = 1'-0"

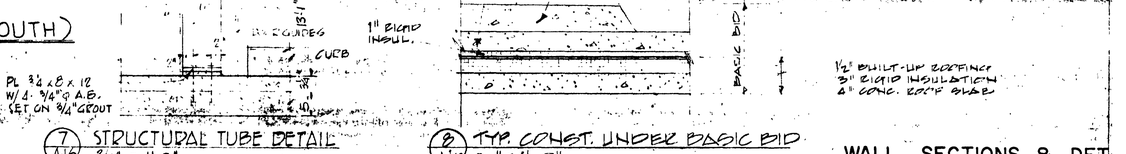


(1) A16 ROOF FLASHING @ SHEAR WALL
1½" = 1'-0" (LEVEL 2 - ROOF)

(5) A16 MAIN ENTRANCE
1/4" = 1'-0"

(6) A16 PLAN - ROLLING DOORS

(2) A16 ROOF FLASHING @ SHEAR WALL
1½" = 1'-0" (PENTHOUSE)



(7) A16 STRUCTURAL TUBE DETAIL
3/4" = 1'-0"

(8) A16 TYP. CONST. UNDER BASIC BID
3/4" = 1'-0"

JOB NO.: 7315-736
DATE: 6-27-74

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FAIRBANKS PARKING STRUCTURE

DBA - 2 - 0130

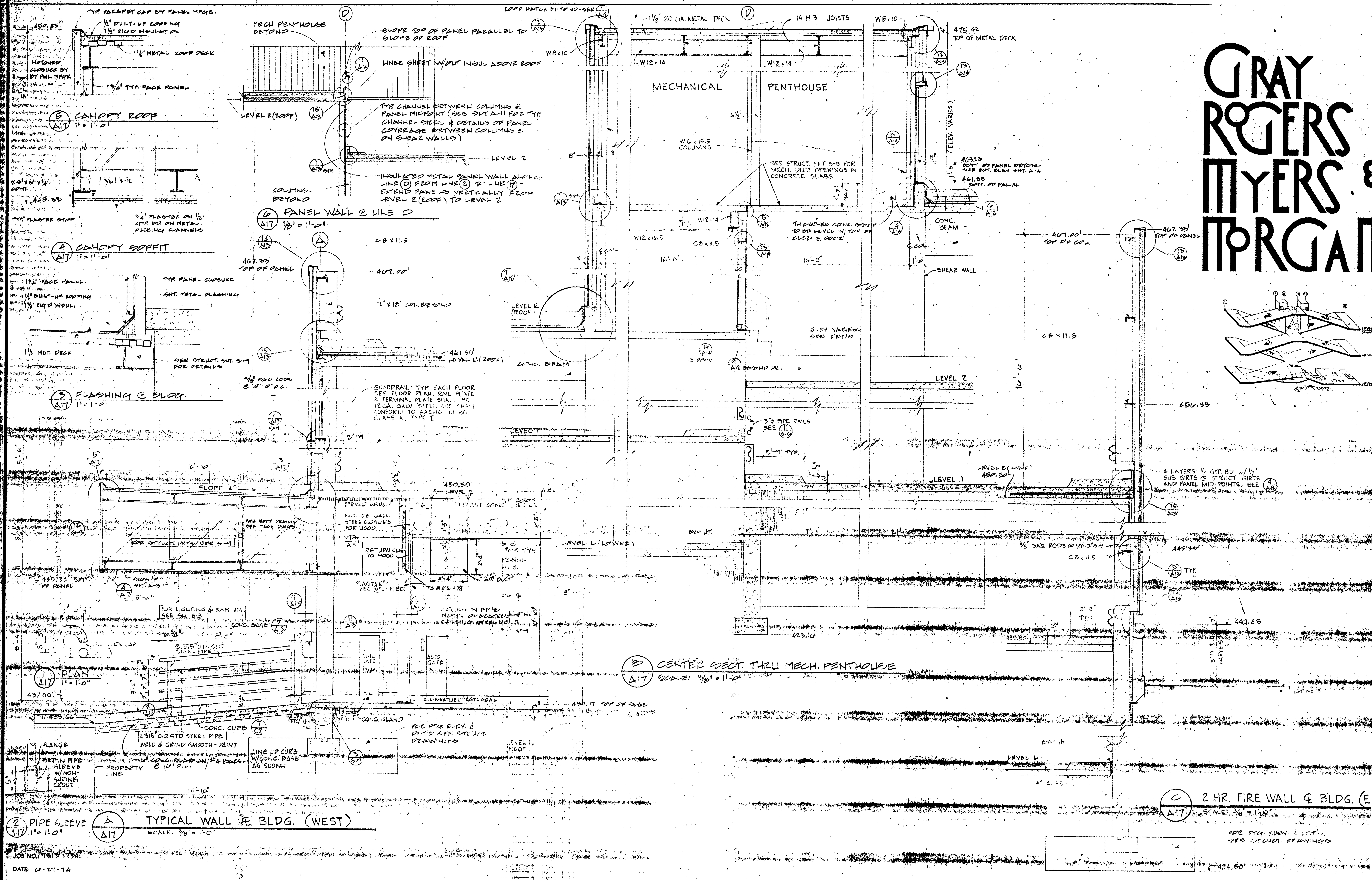
FAIRBANKS, AK.

PETER KIEWIT SONS' CO.
FAIRBANKS ALASKA
RECOMMENDED: CONTRACTOR'S REP.
APPROVED: OWNER'S REP.
DATE:

WALL SECTIONS & DETA

A-16

AS-BLT SHEET 19 OF



GRAY ROGERS MYERS & MORGAN
5 CANOPY ROOF A17 1" = 1'-0"
TYP. PARAPET CAP BY PANEL MFGR.
1/2" BUILT-UP ROOFING
1 1/2" RIGID INSULATION
1 1/2" METAL ROOF DECK
1 3/4" TYP. FACE PANEL
4 CANOPY SOFFIT A17 1" = 1'-0"
3/4" PLASTER ON 1/2" GYP. BD. ON METAL FURRING CHANNELS
TYP. PANEL CLOSURE
SHT. METAL FLASHING
1 1/2" MET. DECK
SEE STRUCT. SHT. S-9 FOR DETAILS
3 FLASHING @ BLDG. A17 1" = 1'-0"
6 PANEL WALL @ LINE D A17 1/8" = 1'-0"
MECH. PENTHOUSE BEYOND
SLOPE TOP OF PANEL PARALLEL TO SLOPE OF ROOF
LINER SHEET W/OUT INSUL. ABOVE ROOF
LEVEL 2 (ROOF)
TYP. CHANNEL BETWEEN COLUMNS & PANEL MIDPOINT (SEE SHT. A-11 FOR TYP. CHANNEL SIZES & DETAILS OF PANEL COVERAGE BETWEEN COLUMNS & ON SHEAR WALLS)
LEVEL 2
INSULATED METAL PANEL WALL ALONG LINE D FROM LINE 2 TO LINE 17 - EXTEND PANELS VERTICALLY FROM LEVEL 2 (ROOF) TO LEVEL 2
COLUMNS BEYOND
467.33 TOP OF PANEL
467.00
C 8 x 11.5
12" x 18" COL. BEYOND
461.50 LEVEL 2 (ROOF)
GUARDRAIL: TYP. EACH FLOOR SEE FLOOR PLAN. RAIL PLATE & TERMINAL PLATE SHALL BE 12 GA. GALV. STEEL AND SHALL CONFORM TO AASHO M-180 CLASS A, TYPE II
SLOPE 4"
450.50 LEVEL 2
RETURN CLG. TO HOOD
AIR DUCT
TS 8 x 6 x 1/4
445.33 BOTT. OF PANEL
1 PLAN A17 1" = 1'-0"
437.00
CONC. BASE
2.375" O.D. STD. STEEL PIPE
CONC. CURB
1.315" O.D. STD. STEEL PIPE WELD & GRIND SMOOTH - PAINT
CONC. ISLAND
LINE UP CURB W/CONC. BASE AS SHOWN
FOR FTG. ELEV. & DET'S SEE STRUCT. DRAWINGS
437.17 TOP OF SLAB
FLANGE
SET IN PIPE SLEEVE W/NON-SHRINK GROUT
PROPERTY LINE
2 PIPE SLEEVE A17 1" = 1'-0"
A TYPICAL WALL @ BLDG. (WEST) A17 SCALE: 3/8" = 1'-0"
ROOF HATCH BEYOND - SEE
1 1/2" 20 GA. METAL DECK
14 H 3 JOISTS
W8 x 10
475.42 TOP OF METAL DECK
W12 x 14
MECHANICAL PENTHOUSE
W 6 x 15.5 COLUMNS
SEE STRUCT. SHT. S-9 FOR MECH. DUCT OPENINGS IN CONCRETE SLABS
THICKENED CONC. SLAB TO BE LEVEL W/ TOP OF CURB @ DOOR
CONC. BEAM
SHEAR WALL
(ELEV. VARIES)
461.33 BOTT. OF PANEL
LEVEL 2 (ROOF)
ELEV. VARIES SEE DET. 5
LEVEL 2
LEVEL 1
3/4" PIPE RAILS SEE
LEVEL L/LOWER
423.16
B CENTER SECT. THRU MECH. PENTHOUSE A17 SCALE: 3/8" = 1'-0"
467.33 TOP OF PANEL
467.00 TOP OF COL.
C 8 x 11.5
456.33
4 LAYERS 1/2 GYP. BD. w/ 1/2" SUB GIRTS @ STRUCT. GIRTS AND PANEL MIDPOINTS. SEE
3/8 SAG RODS @ 10'-0" O.C.
445.33
440.83
439.50
LEVEL 2 (LOWER) 450.50
C 2 HR. FIRE WALL @ BLDG. A17 SCALE: 3/8" = 1'-0"
FOR FTG. ELEV. & DET'S SEE STRUCT. DRAWINGS
424.50

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DATE: 6-27-74

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FAIRBANKS PARKING STRUCTURE

DBA - 2 - 0130

FAIRBANKS, AK.

PETER KIEWIT SONS' CO.

WALL SECTI

A-17

SHEET 20 O

ABBREVIATIONS

AB	ANCHOR BOLT
ADD	ADDENDUM
ALT	ALTERNATE
ARCH	ARCHITECT, ARCHITECTURAL
BFE	BOTTOM FOOTING ELEVATION
BJ	BRIDGING JOIST
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
BRIDG	BRIDGING
BSMT	BASEMENT
CANTIL	CANTILEVER
CJ	CONTROL JOINT
CL	CENTER LINE
COL	COLUMN
CON	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COOR	COORDINATE
CT JT	CONTRACTION JOINT
CTR	CENTER
DEPR	DEPRESSION
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DJ	DOUBLE JOIST
DO	DITTO
DWG	DRAWING
DWLS	DOWELS
EA FA	EACH FACE
EA WAY	EACH WAY
EE	EACH END
E JT	EXPANSION JOINT
EL	ELEVATION
ELEV	ELEVATOR
ERECT	ERECTION
EWEF	EACH WAY EACH FACE
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FDN	FOUNDATION
FIN	FINISH
FL	FLOOR
FP	FIREPROOFING
FRMG	FRAMING
FTG	FOOTING
FUT	FUTURE
GA	GAUGE, GAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GND	GROUND
GR BM	GRADE BEAM
HDR	HEADER
HS	HIGH STRENGTH
HT	HEIGHT
HOR	HORIZONTAL
IF	INSIDE FACE
IN	INCH
INT	INTERIOR
JST	JOIST
JT	JOINT
KWY	KEYWAY
MAX	MAXIMUM
MB	MACHINE BOLT
MECH	MECHANICAL
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFGR	MANUFACTURER
MIN	MINIMUM
MONO	MONOLITHIC
NO	NUMBER
OC	ON CENTER
OF	OUTSIDE FACE
OPNG	OPENING
PED	PEDESTAL
PLT	PLATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
R	RISER
R	RADIUS
RC	REINFORCED CONC
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCE
REV	REVISE, REVISION
RS	ROUGH SLAB
RT	RIGHT
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FOOT
SHT	SHEET
SIM	SIMILAR
SJ	STEEL JOIST
SPEC	SPECIFICATIONS
SPA	SPACES
SQ	SQUARE
ST	STEEL
STIR	STIRRUPS
STRUCT	STRUCTURAL
STR	STRAIGHT
SYMM	SYMMETRICAL
T&B	TOP & BOTTOM
TEMP ST	TEMPERATURE STEEL
TJ	TRIPLE JOIST
TR	TREAD
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/	WITH
WP	WATERPROOF, WEATHERPROOF
WT	WEIGHT
WWF	WELDED WIRE FABRIC

GENERAL STRUCTURAL NOTES

1. BUILDING CODES USED:

A. Uniform Building Code, 1970.
B. ACI Standard 318-71.
C. AISC Specification, 1969.

2. FOUNDATION:

A. Foundation design based on an allowable uniform pressure of 4,000 psf with spread footings bearing on COMPACTED FILL.

B. All slabs on grade are to be placed on 4 mil polyethylene vapor barrier.

3. DESIGN LIVE LOADS:

A. All Parking Decks---------- 50 psf
B. Stairs, Corridors---------- 100 psf
C. Seismic---------- Zone 3

4. DESIGN:

A. Reinforced concrete beams, slabs and columns designed in accordance with the ultimate strength theory and ACI 318-71.

B. Post-tensioned girders and slabs designed in accordance with ACI 318-71 and "Tentative Recommendations for Concrete Members Prestressed with Unbonded Tendons" by ACI Committee 423.

5. CONCRETE:

Class	Strength at 28 Days (psi)	Location
A	5,000	Post-tensioned slabs, beams, & girders. (Precast girders & columns and conventional reinforced 6-1/2" slabs for contractors option.)
B	4,000	Footings, fdn. walls, slabs on grade, and all other concrete.

6. REINFORCING STEEL:

A. ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures" (latest edition) and CRSI "Manual of Standard Practice" (latest edition) to govern fabrication of all reinforcing steel unless shown otherwise on plans.

B. Reinforcing vendor to furnish all accessories, chairs, spacer bars and supports necessary to secure steel in accordance with the ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures" (latest edition) and CRSI "Manual of Standard Practice" (latest edition).

C. All reinforcing steel to be ASTM A-615 Grade 60 except stirrups and ties to be ASTM A-615 Grade 40.

D. Concrete reinforcement shall be placed according to the CRSI "Recommended Practice for Placing Reinforcing Bars" (latest edition).

E. In all slabs where negative steel is not called for, provide entire positive steel area over all interior supports and one-half of positive steel area over end supports.

F. Splices in vertical and horizontal reinforcing steel shall be lapped a minimum of bar diameters unless noted otherwise.

G. Concrete Coverage For Reinforcing Steel:

a. Footings--------- 3"
b. Pedestals--------- 2" to Ties
c. Foundation Walls
1. Exterior Face-- 2"
2. Interior Face-- 1-1/2" (Unless Shown Otherwise)
d. Columns---------- 1-1/2" to Ties or Spirals (Unless Shown Otherwise)
e. Slab on Grade---- 2-1/2" Bottom
f. Structural Slab-- 1" Top and Bottom
g. Beams---------- 1-1/2" to Stirrups (Unless Shown Otherwise)
h. Grade Beams------ 2"

7. STRUCTURAL STEEL:

A. Fabrication and erection of structural steel shall be governed by AISC "Code of Standard Practice", latest edition.

B. Shop connections may be welded or bolted. Field connections may be bolted or welded.

C. All bolts used for field connections shall be 3/4" diameter high strength bolts per ASTM A-325, unless noted or shown otherwise on plans.

D. Standard connections (AISC) used for beam to columns or beam to beam connection, unless shown otherwise on plans.

E. Minimum beam connections shall be as shown in table on Sheet No. S-9 for 3/4" diameter A-325 high strength bolts, unless shown or noted otherwise on plans.

8. STEEL JOISTS:

A. All steel joists shall conform to requirements of the Steel Joist Institute Standard Specifications, latest edition. Manufacturers not members of SJI or AISC shall submit for architect's approval a complete structural analysis of their joists proposed for use. All stresses shall be within limits established by SJI.

B. Bridging for H series steel joists shall be continuous horizontal 5/8" Ø rods or equal at top and bottom of joists in lengths to permit lapping at joist panel points for welding. Weld bridging to web members near top and bottom chords.

C. Refer to plans for bottom chord extensions required.

D. Header angles for steel joists shall be furnished by joist manufacturer.

E. Steel joists are to be attached to supporting members as per recommendations of Steel Joist Institute Specifications.

9. STEEL ROOF DECK:

A. Steel roof deck shall be 1-1/2" in depth by 20 gage.
See general specifications for type and method of fastening deck to supporting members.

10. METAL SLAB FORM:

A. Metal Slab Form - See General Specifications.

11. BACKFILLING:

A. No backfilling and compacting of earth shall be permitted against foundation walls until supporting slabs have been poured and have reached 75% of their design strength or unless adequate bracing submitted for review is provided.

B. Both sides of foundation walls shall be backfilled simultaneously so as to prevent overturning or lateral movement of walls.

C. All grade beams shall be adequately braced to prevent lateral movement during backfilling and compaction.

12. CONSTRUCTION JOINTS:

A. General contractor shall submit a drawing showing the proposed construction joints for all areas. This includes walls, structural floor systems, slabs on grade, etc. This drawing must be reviewed by the project engineer and returned to the contractor prior to pouring of any concrete. These construction joint drawings shall be furnished to the fabricators before their shop drawings are submitted. If for some reason the contractor desires to adjust or remove certain proposed construction joints, he must submit new construction joint drawings and a written request outlining his reasons for the proposed change to the architect for his review prior to pouring.

B. Construction joints are to be made as detailed on structural drawings. Location of construction joints shall be coordinated with post-tensioning installer.

13. General Contractor to verify location of all mechanical and electrical openings with mechanical and electrical contractors respectively.

14. The exact location and elevations of all existing utilities shall be verified by the General Contractor and reported to the architect for conformance with assumptions made in preparation of construction documents.

15. All reinforcing bars that terminate at a slab or wall edge are to be hooked.

16. Unless noted otherwise, provide two #5 bars each side of all openings in slabs and walls.

17. All exposed corners of column's, beams and walls to have 3/4" x 3/4" chamfer.

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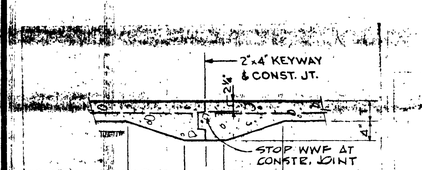
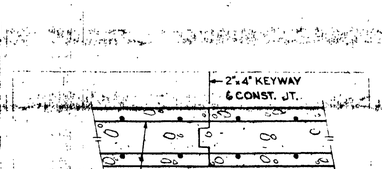
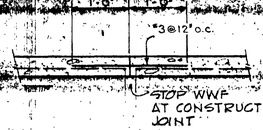


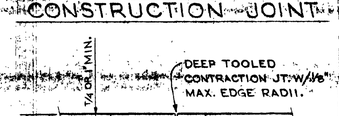


WALL CONSTRUCTION JOINT

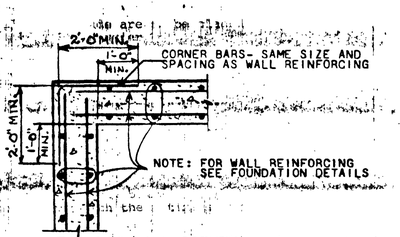


CONTRACTOR'S OPTION

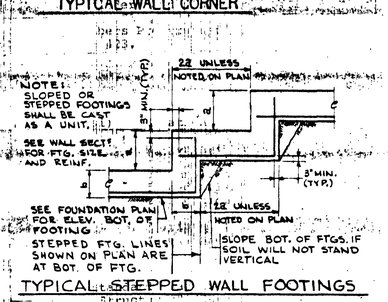
SLAB ON GRADE CONSTRUCTION JOINT



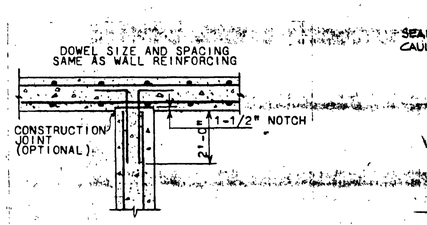
SLAB ON GRADE CONTRACTION JOINT



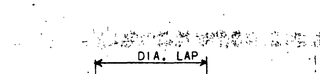
TYPICAL WALL CORNER



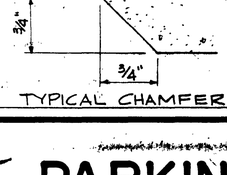
TYPICAL STEPPED WALL FOOTINGS



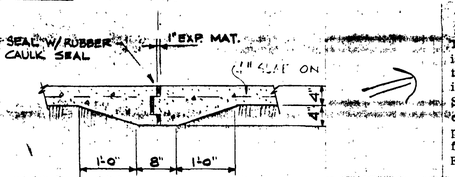
TYPICAL WALL INTERSECTION REINFORCING DETAIL



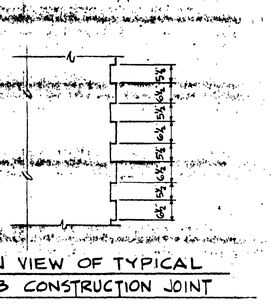
TYPICAL TENSION SPLICE FOR CONCRETE REINFORCING



TYPICAL CHAMFER DETAIL



SECTION (S-1/1) (SEE LEVEL 1 PLAN SH. S-2)
SCALE 3/4" = 1'-0"



PLAN VIEW OF TYPICAL SLAB CONSTRUCTION JOINT

Precast Option

The structural system indicated on the following sheets (S-1 thru S-14) is post-tensioned girder girder and slab. The contractor has the option to provide a precast column and girder system with a conventionally reinforced 6-1/2" concrete slab in lieu of the P-T system indicated on Shee S-1 thru S-14. Typical member sizes, reinforcing and details for the precast option are shown on Sheet S-15 and are to be used for bidding purposes. If the contractor provides the precast option, structural calculati for all precast members and connections shall be submitted to the Archite Engineer for approval.

The contractor will be responsible to coordinate the precast details with plans and details on Sheets S-1 thru S-14 to ensure conformance with de sign intent. It is not mandatory for the contractor to submit a price for t precast option.

General Note to Contractor

The Contractor shall avoid damage as a result of his operation to existin sidewalks, streets, curbs, pavements, utilities, (except those to be replaced or removed) adjoining the property, etc., and he shall, at his own expense completely repair any damage thereto caused by his operat

The Contractor shall shore up, brace, underpin, secure, and protect as may be necessary, all foundations and other parts of existing structures adjacent thereto adjoining, and in the vicinity of the site, which may in way be affected by the excavations or other operations connected with e struction of the parking structure embraced in this contract. The Contr shall be responsible for the giving of any and all required notices to an adjoining or adjacent property owners or other party before the commen ment of any work. The Contractor shall indemnify and save harmless t State of Alaska and the Architect/Engineer from any damages on account of settlement or the loss of lateral support of adjoining property and fro all loss and expense and all damages for which the State of Alaska and t Architect/Engineer may become liable and consequence of such injury o damage to adjoining and adjacent structures and their premises.

TYPICAL DETAILS AND GENERA STRUCTURAL NOTES

JOB NO.: 7313, 734
DATE: 6-27-74

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JUNEAU ALASKA

STATE OF ALASKA 49TH No. 494-E REGISTERED PROFESSIONAL ENGINEER

FAIRBANKS PARKING STRUCTURE

DBA-2-0130

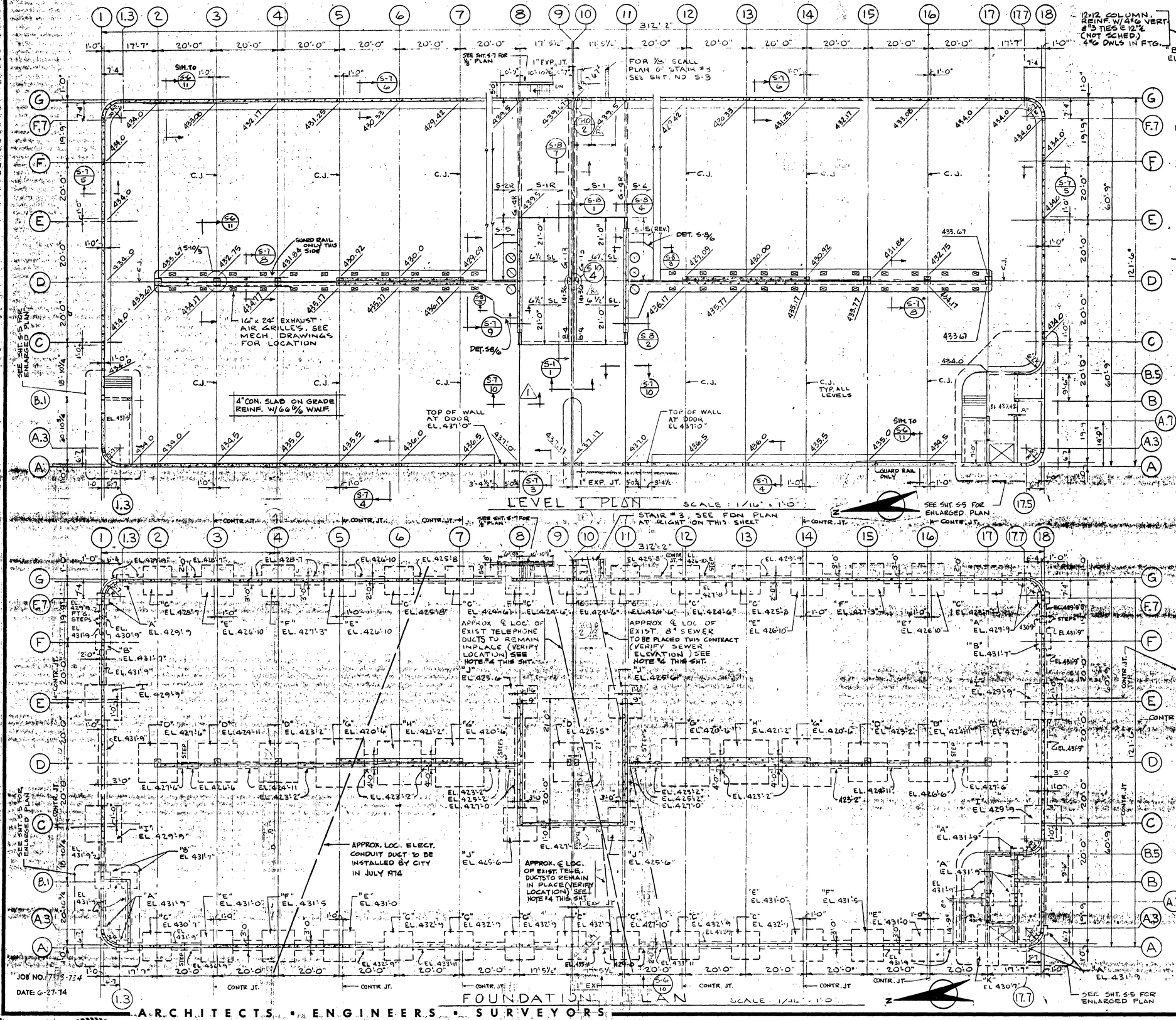
FAIRBANKS, AK.

PETER KIEWIT SONS CO.

DATE AS-BLT

S-1

SHEET 21 OF 42



FOOTING SCHEDULE			
FOOTING	SIZE	DEPTH	REINFORCING
"A"	4'0 x 4'-0	12"	4-#5 E.W.
"B"	5'-0 x 5'-0	14"	5-#5 E.W.
"C"	9'-6 x 9'-6"	24"	7-#8 E.W.
"D"	13'-0 x 13'-0	33"	11-#9 E.W.
"E"	10'-6 x 10'-6	33"	9-#9 E.W.
"F"	10'-6 x 10'-6	28"	9-#8 E.W.
"G"	16'-0 x 16'-0	44"	14-#10 E.W.
"H"	14'-6 x 14'-6	36"	12-#9 E.W.
"I"	12'-0 x 12'-0	36"	10-#9 E.W.
"J"	11'-0 x 11'-0	32"	11-#8 E.W.
"K"	7'-0 x 13'-0	26"	9-#8 LONG 12-#8 SHORT

NOTES:
1. ALL FOOTINGS ARE CENTERED UNDER COLUMNS OR W
2. SEE PLAN FOR FOOTING ELEVATIONS, ELEVATIONS ARE BOTTOM OF FOOTINGS.
3. VERIFY SIZE & LOCATION OF ALL MECHANICAL OPENINGS ETC. WITH MECHANICAL CONTRACTOR.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEM SHORING & PROTECTION FOR EXISTING TELE. DUCT & S SEWER LINE DURING CONSTRUCTION.

FOUNDATION PLAN & LEVEL I FLOOR P

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JUNEAU ALASKA

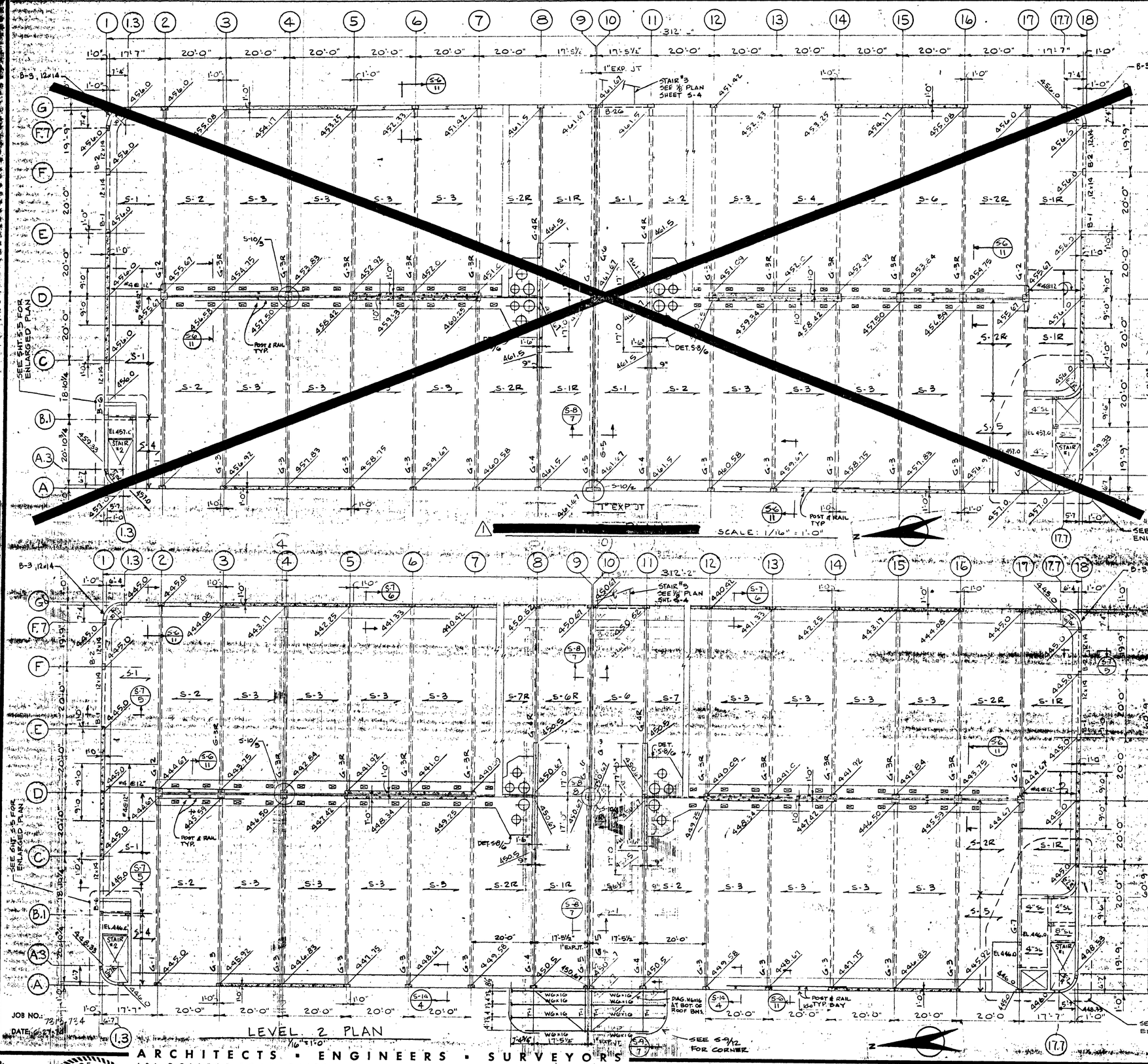
FAIRBANKS PARKING STRUCTURE

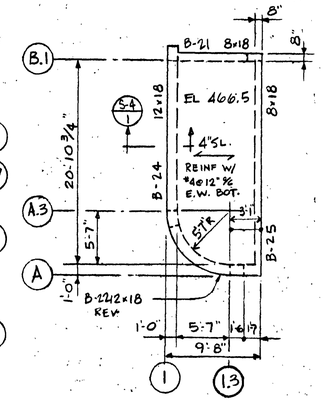
DBA-2-0130

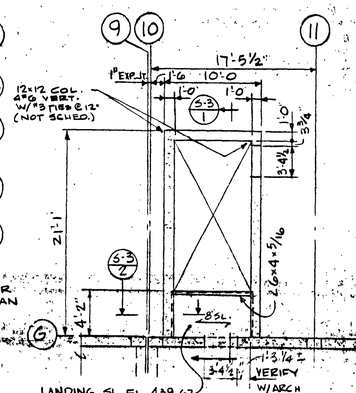
FAIRBANKS, AK.

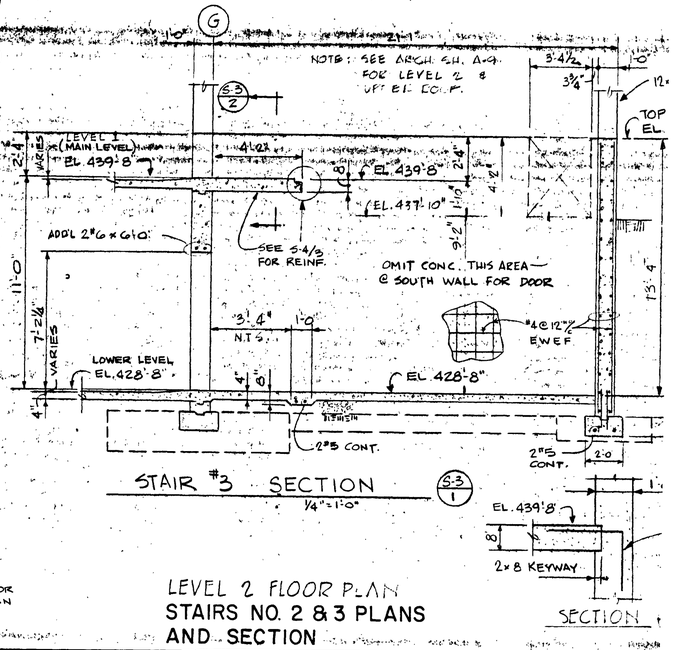
S-2

SHEET 22 O









NOTES:
1. FLOOR EL. VARIES - SEE PLAN.
2. VERIFY MECH. & ELECT. OPNG. SIZE W/ MECH. & ELECT. CONTRACTORS.
3. SEE SHT S-7/1 FOR RAMP CROSS SECTIO
4. SEE SHT. S-11, 12, 13 FOR SHEAR WALL DETA
5. SEE SHT. S-14 FOR RT GIRDER & SLAB DE
6. SEE SHT. S-15 FOR PRECAST (CONTR. OPT
7. SEE SHT. S-10 FOR R/C BM & COL REIN
8. SEE SHT. S-4 FOR ADD'L SLAB REINF. & LI
9. FLOOR EL. SHOWN ON PLAN ARE T TOP OF STRUCTURAL SLAB
10. SEE S-1 FOR TYP SLAB CONSTR. JOINT.

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FAIRBANKS PARKING STRUCTURE

DBA - 2 - 0130

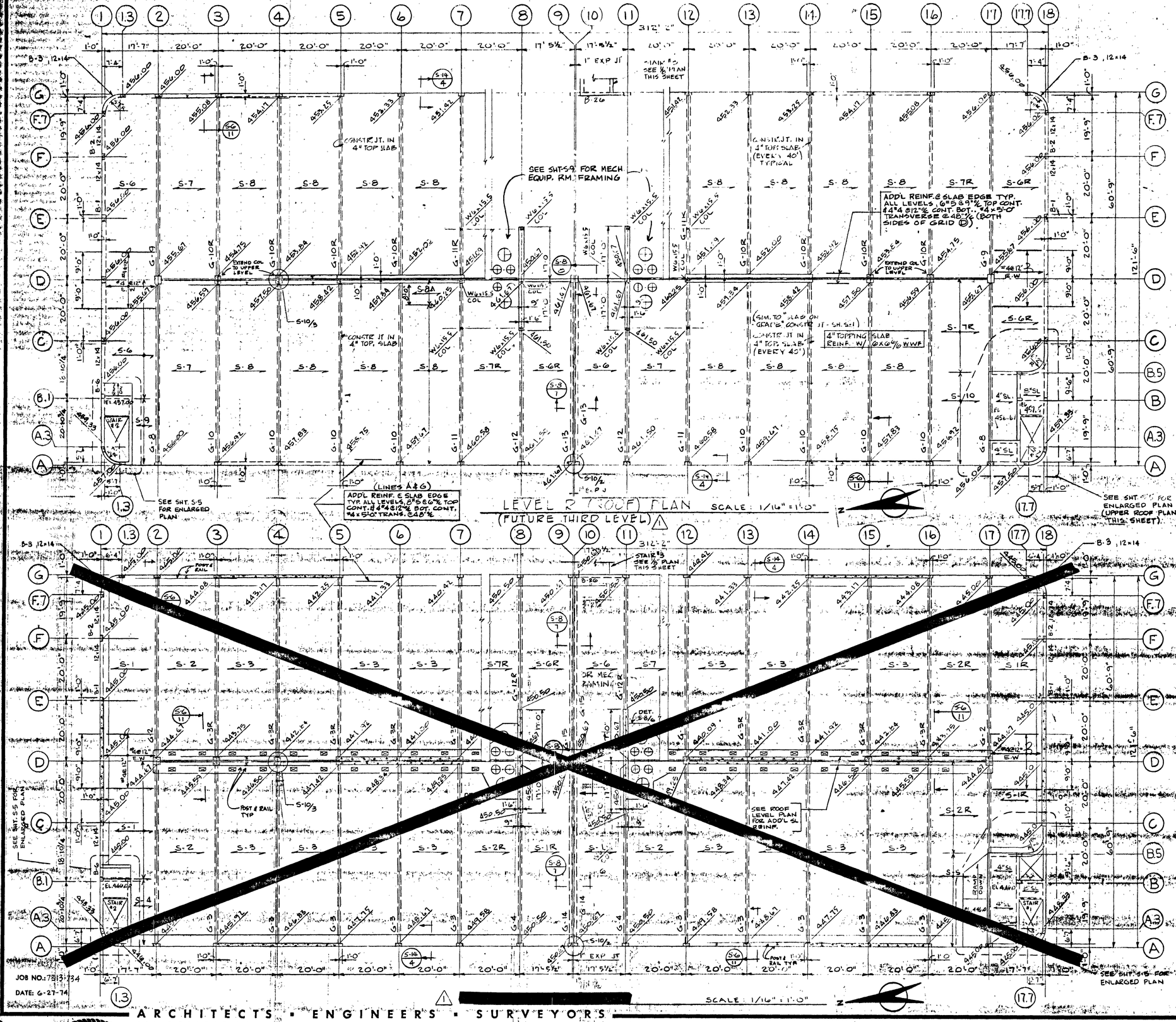
FAIRBANKS, AK.

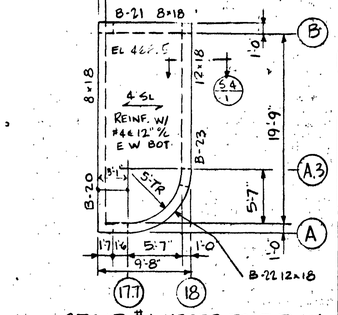
PETER KIEWIT SONS' CO.
FAIRBANKS ALASKA
RECOMMENDED: APPROVED:
DATE: AS-BLT

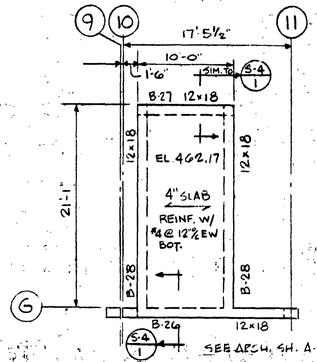
S-3

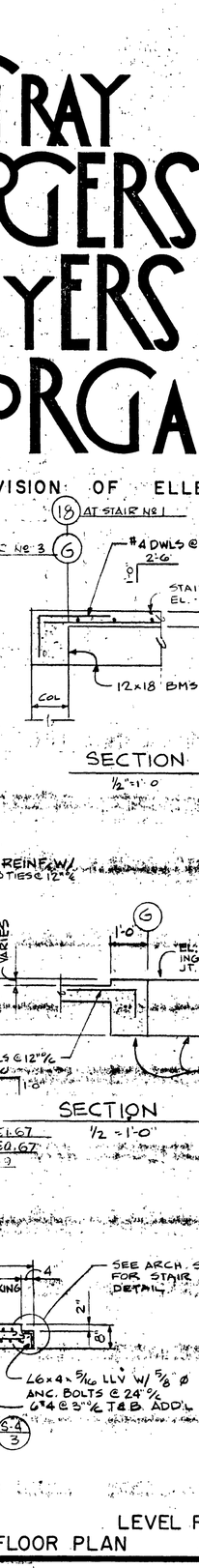
SHEET 23 OF

JOB NO.: 7315 7314
DATE: 6-27-74









NOTES:
1. FLOOR EL. VARIES - SEE PLAN
2. VERIFY MECH. & ELECT. OPNG. SIZE & LOC. W/ MECH. & ELECT. CONTRACTORS.
3. SEE NOTES ON SHT. S-3

LEVEL R (R
FLOOR PLAN

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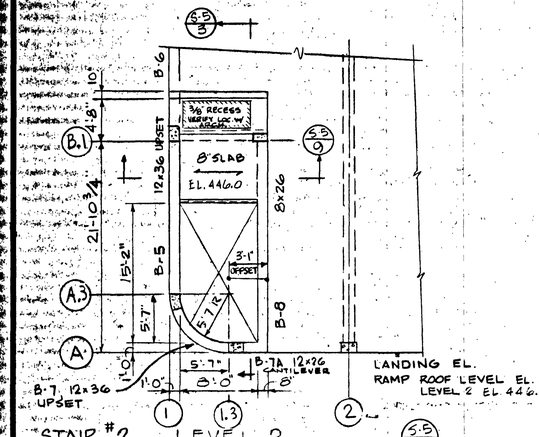
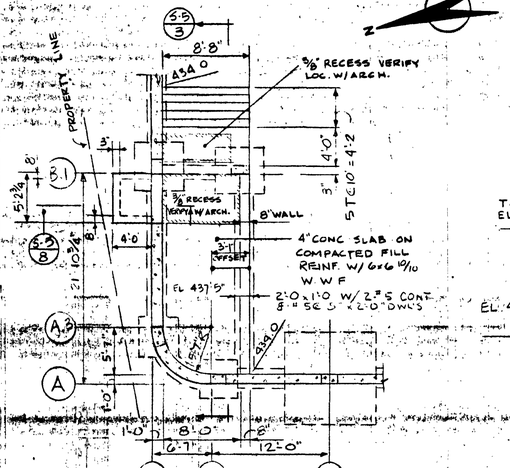
S-4

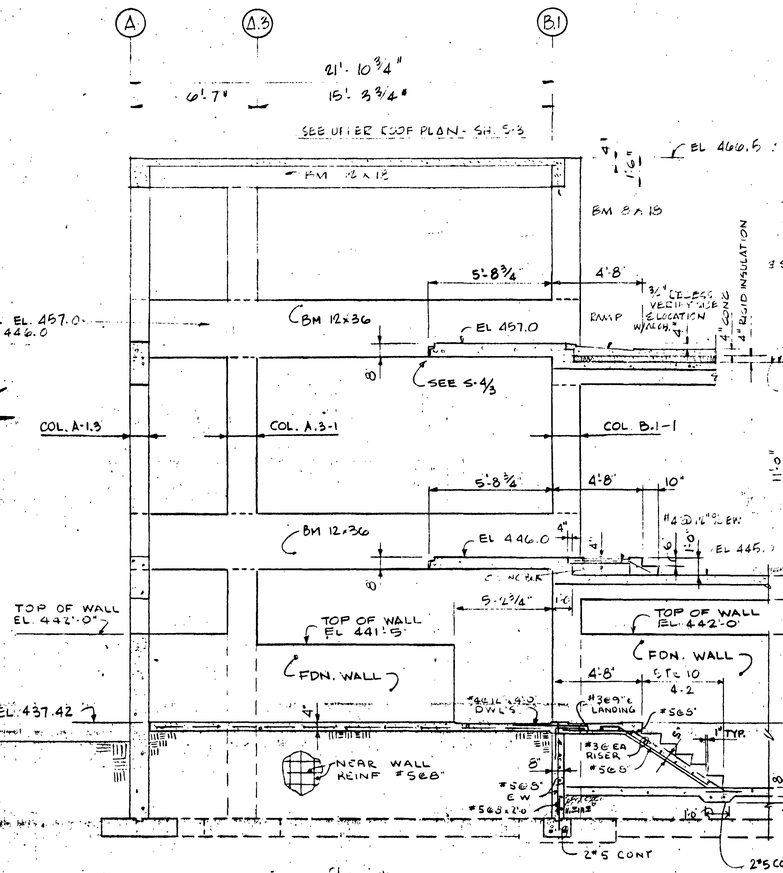
SHEET 24 O



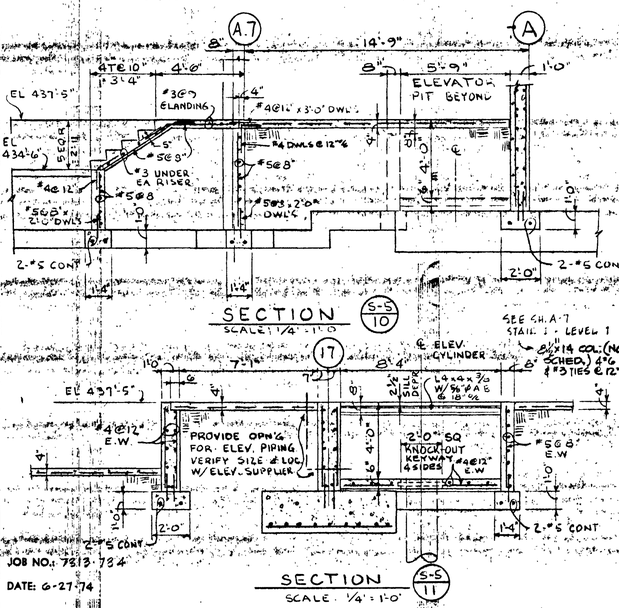
STAIR #2 LEVEL 2
SCALE: 1/8"=1'-0"



STAIR #2 LEVEL 1
SCALE 1/8"=1'-0"

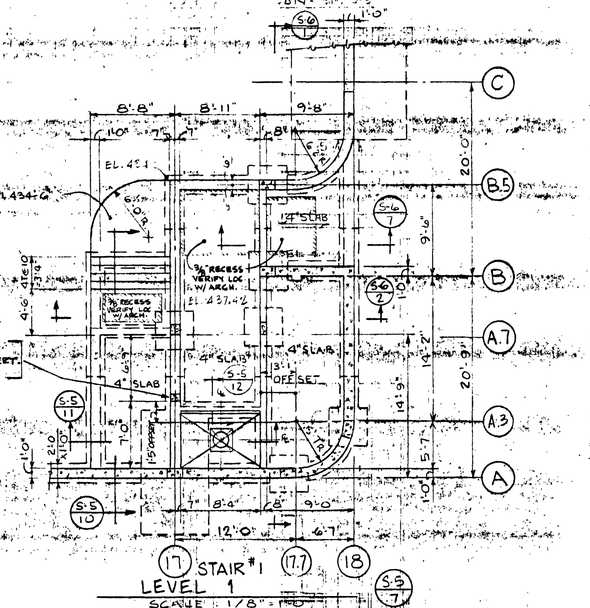


STAIR #2
SECTION
SCALE: 1/4"=1'-0"

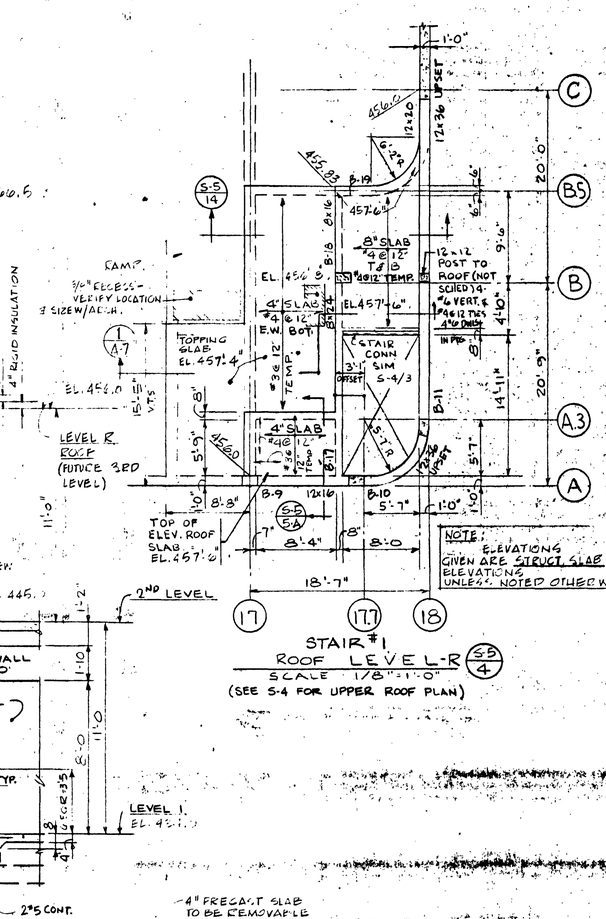


SECTION
SCALE: 1/4"=1'-0"

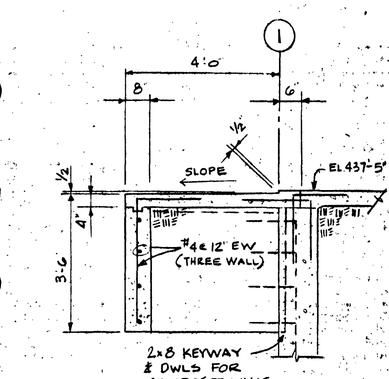
SECTION
SCALE: 1/4"=1'-0"



STAIR #1
LEVEL 1
SCALE: 1/8"=1'-0"



STAIR #1
ROOF LEVEL-R
SCALE 1/8"=1'-0"
(SEE S-4 FOR UPPER ROOF PLAN)



STOOP SECTION
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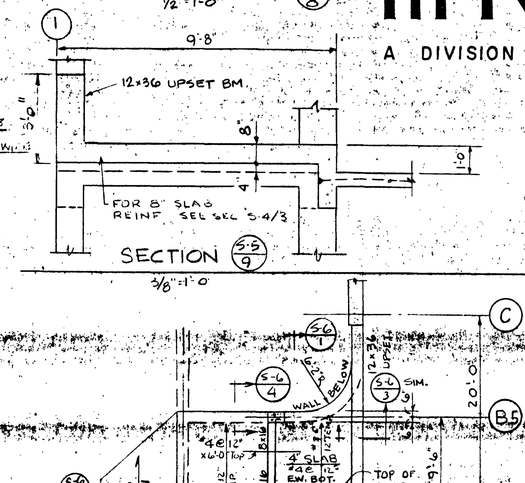
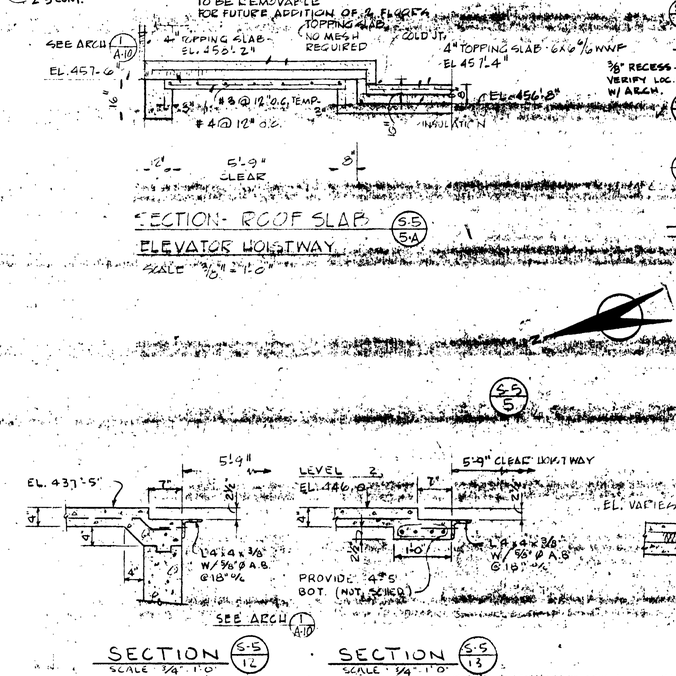
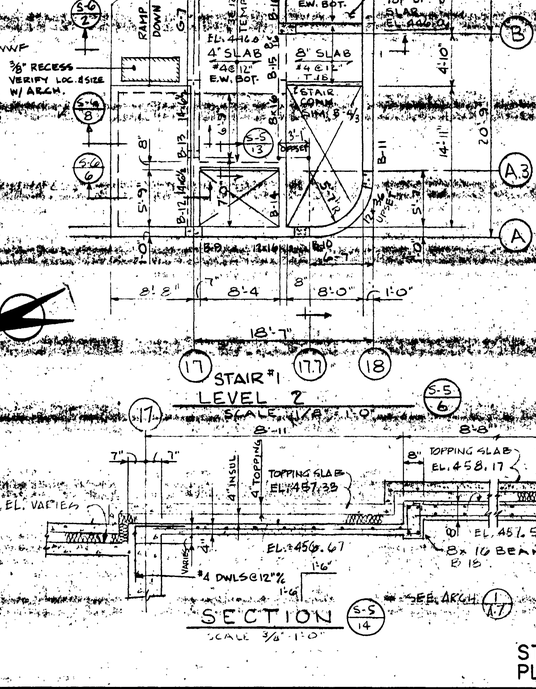


SECTION
3/8"=1'-0"



SECTION - ROOF SLAB
ELEVATOR HOISTWAY
SCALE 3/8"=1'-0"



STAIR #1
LEVEL 2
SCALE 1/8"=1'-0"

SECTION
SCALE 3/4"=1'-0"

SECTION
SCALE 3/4"=1'-0"

SECTION
SCALE 3/4"=1'-0"

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FAIRBANKS, AK.

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STAIR No. 1 AND N
PLANS & DETAILS

PETER KIEWIT SONS' CO.
ALASKA
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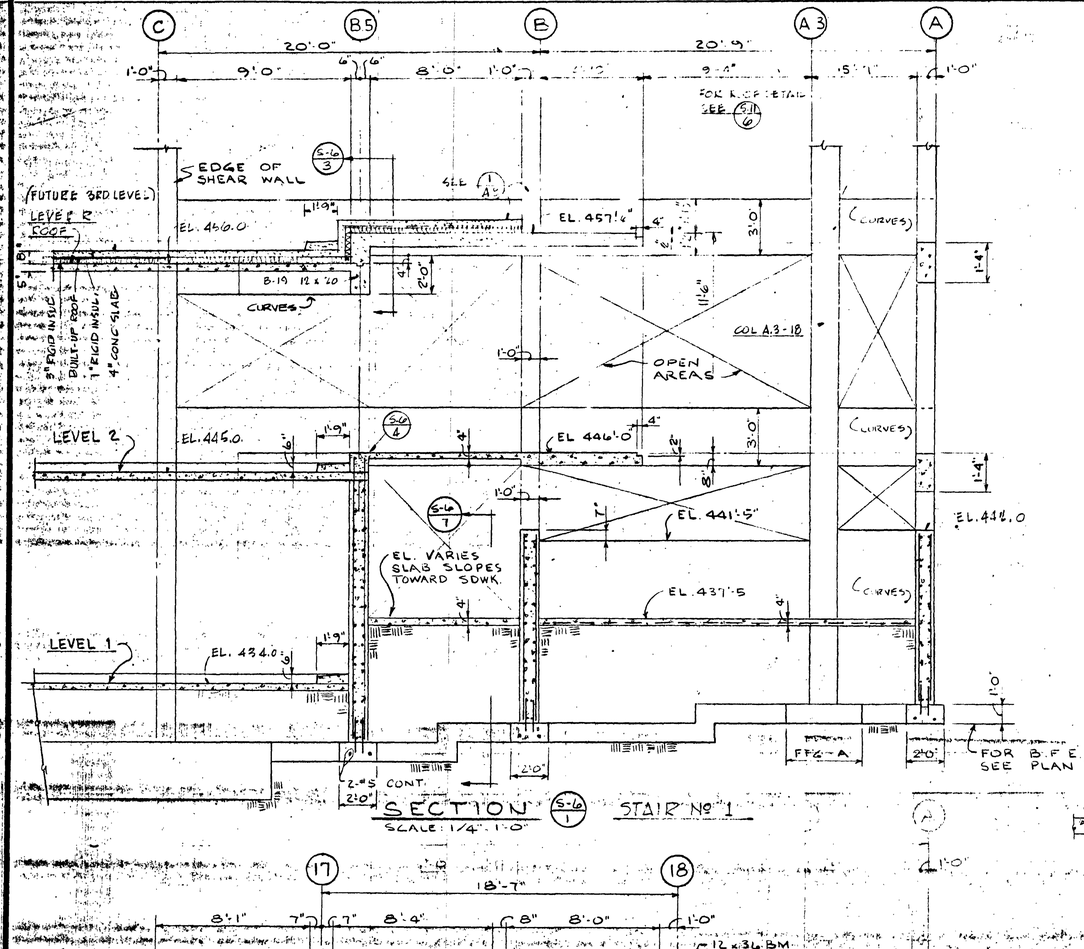
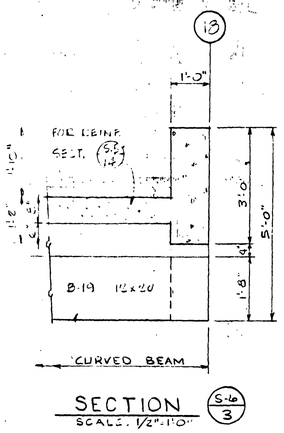
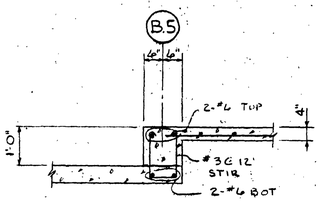
DATE:

S-5

SHEET 25 OF







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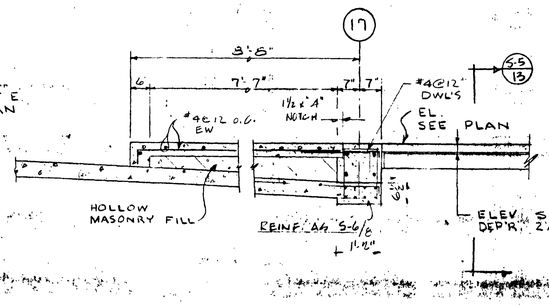

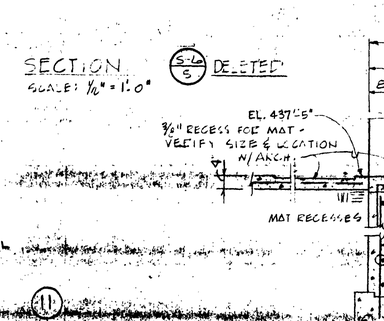

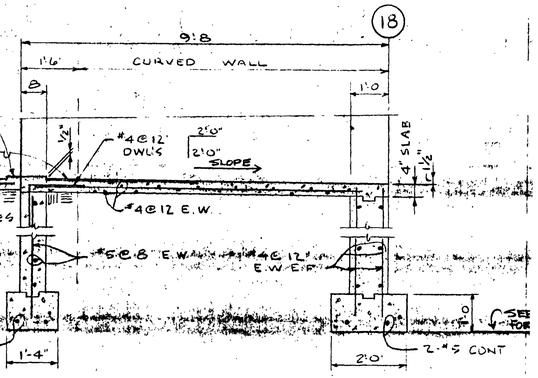

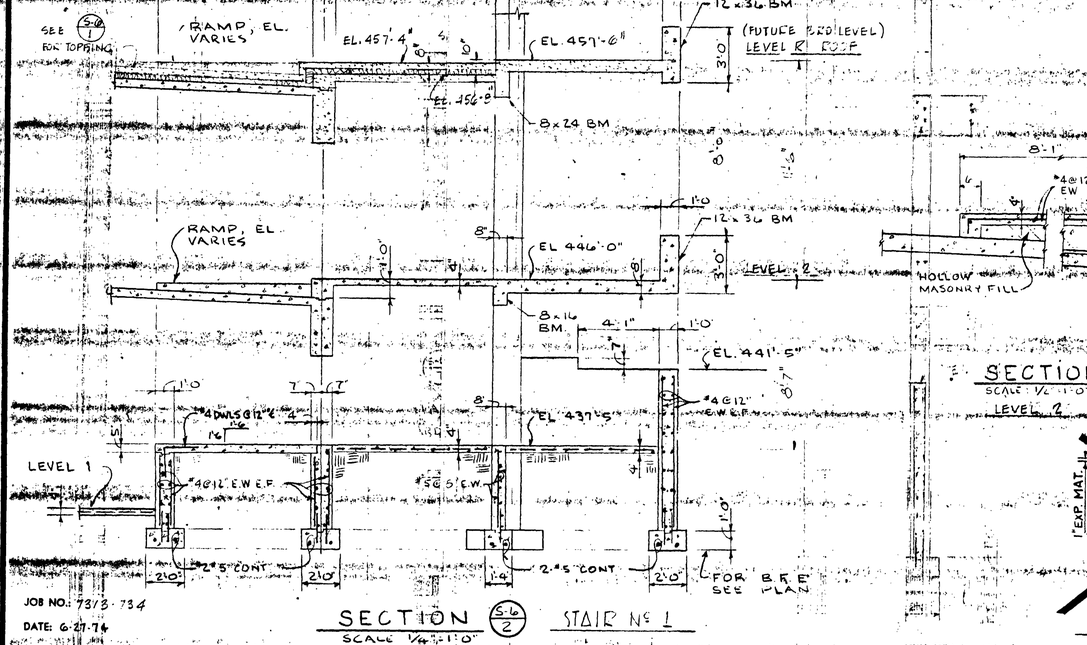

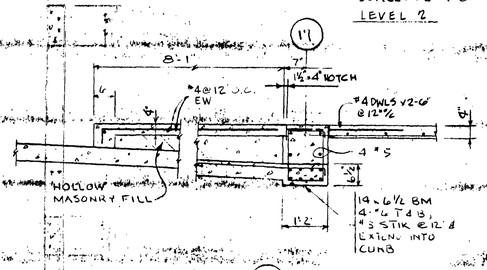

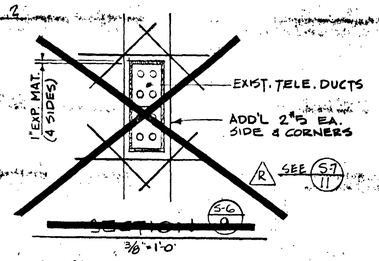

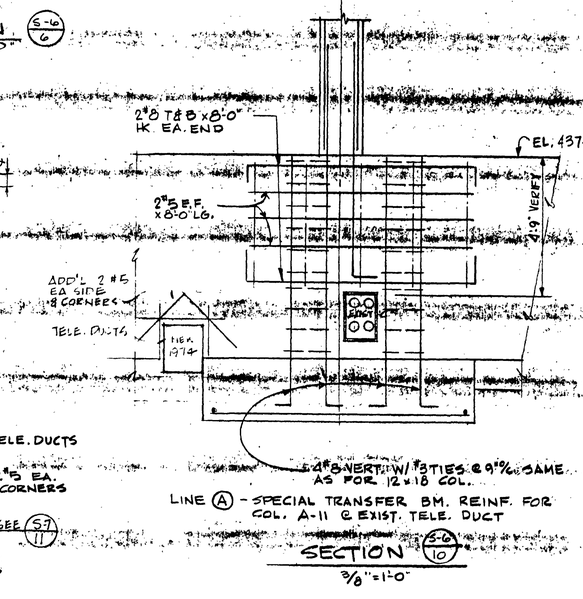

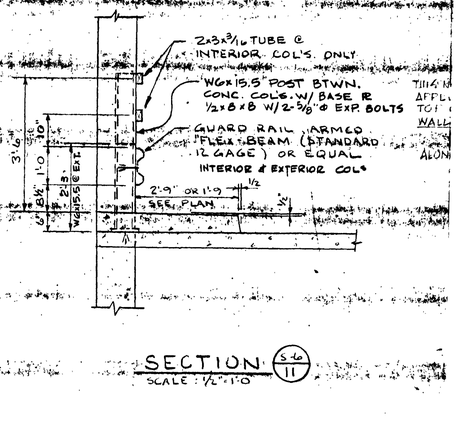

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STATE OF ALASKA 49TH No. 494-E REGISTERED PROFESSIONAL ENGINEER

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DBA-2-0130

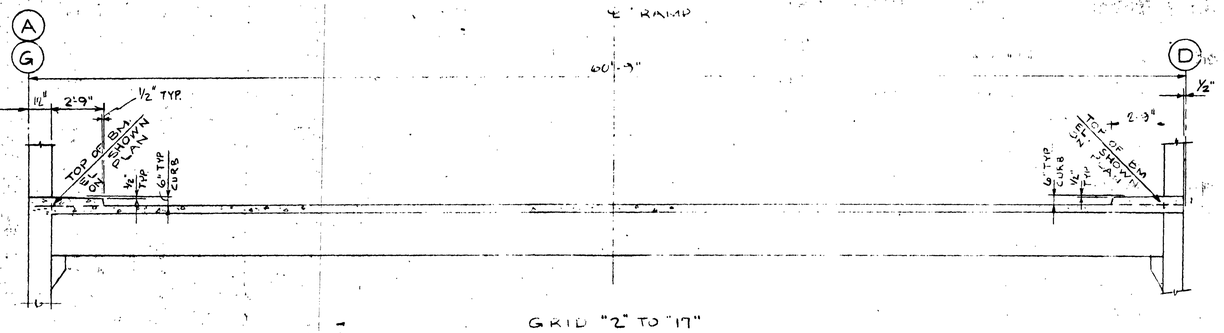
FAIRBANKS, AK.

STAIR No.1 SECTIONS AND DETA

DATE:

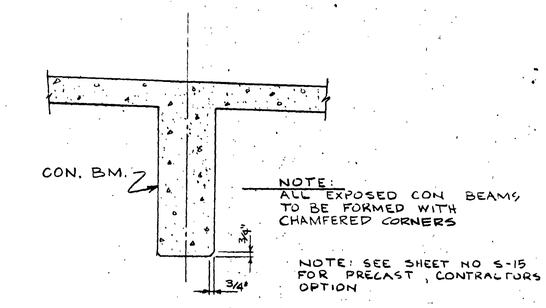
S-E

SHEET 26 O



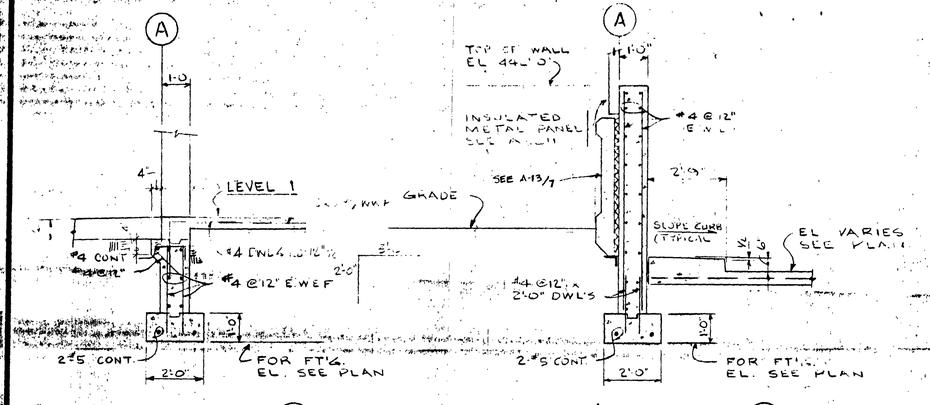
GRID "2" TO "17"
TYPICAL RAMP CROSS SECTION

SECTION (S-7/1)
SCALE: 1/4"=1'0"



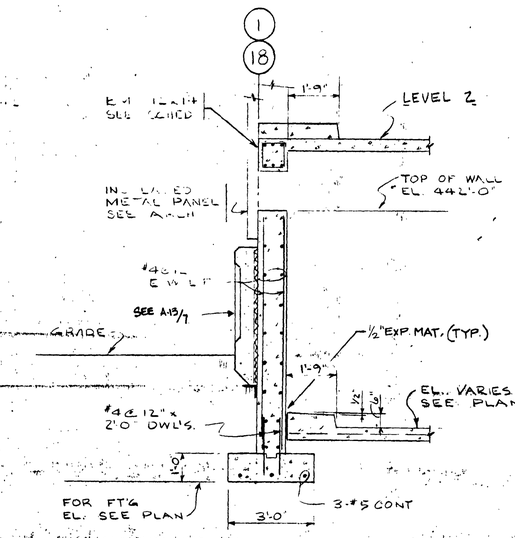
NOTE: SEE SHEET NO S-15 FOR PRECAST, CONTRACTORS OPTION

TYPICAL DETAIL FOR
EXPOSED CONCRETE BEAMS (S-7/2)

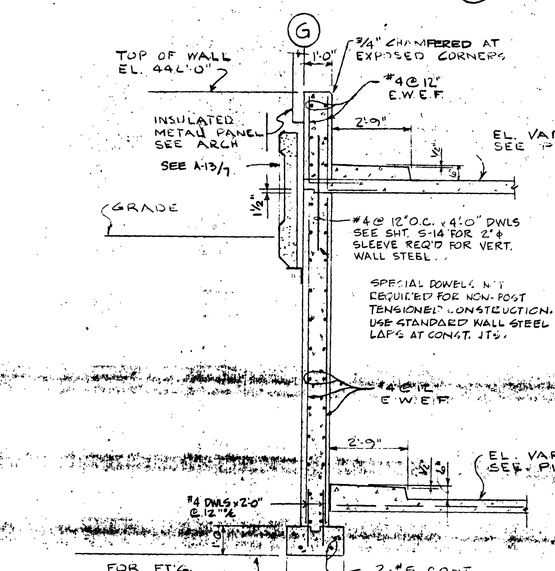


SECTION (S-7/3)
SCALE: 3/8"=1'0"

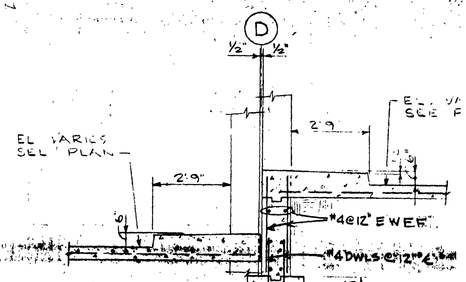
SECTION (S-7/4)
SCALE: 3/8"=1'0"



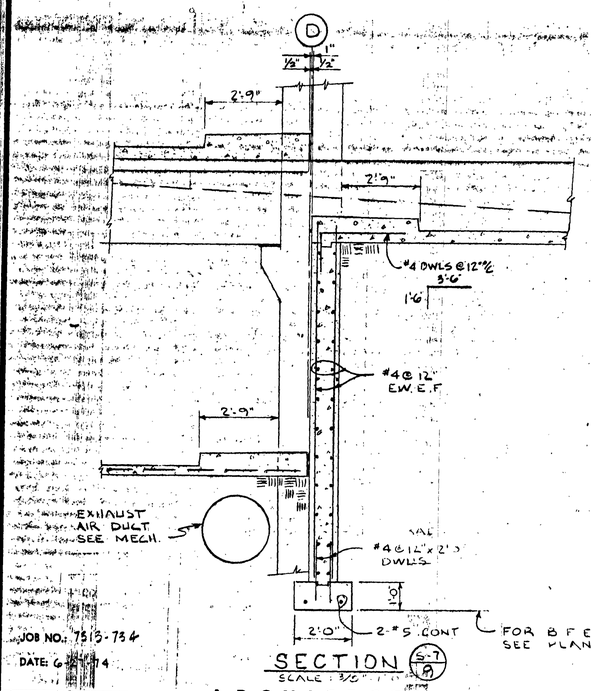
SECTION (S-7/5)
SCALE: 3/8"=1'0"



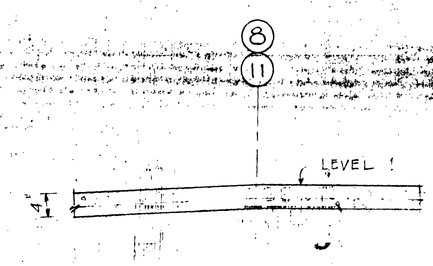
SECTION (S-7/6)
SCALE: 3/8"=1'0"



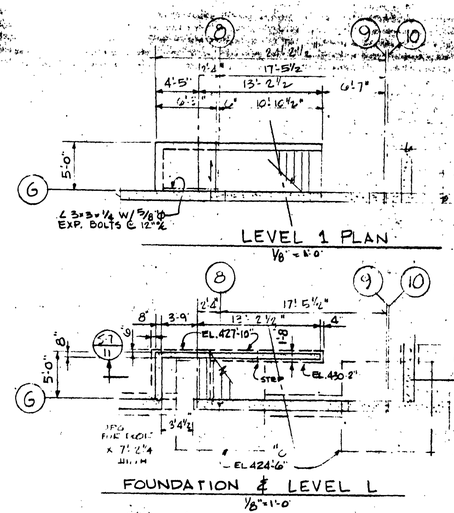
SECTION (S-7/8)
SCALE: 3/8"=1'0"



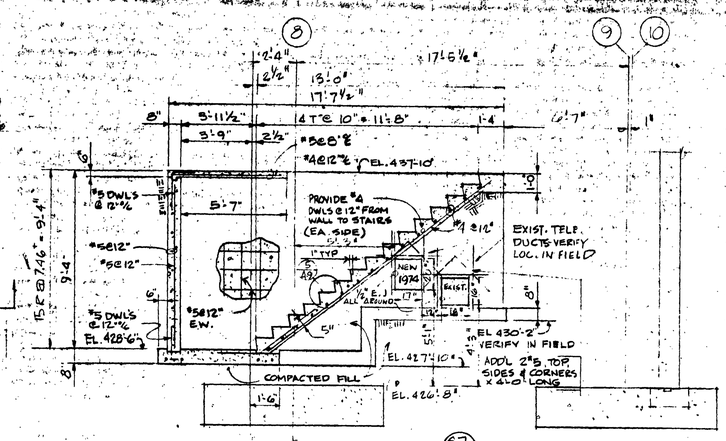
SECTION (S-7/9)
SCALE: 3/4"=1'0"



SECTION (S-7/10)
SCALE: 3/4"=1'0"



OMITTED (S-7/7)



SECTION (S-7/11)
¼"=1'-0"
(REVISED DUE TO M.U.S. DUCT CHANGED LOCATION)

GRAY ROGERS MYERS & MORGAN
A DIVISION OF ELLERBE

JOB NO. 7513-734
DATE: 6-[illegible]-74

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STATE OF ALASKA
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DIVISION OF BUILDINGS
JUNEAU ALASKA

FAIRBANKS PARKING STRUCTURE

DBA-2-0130

FAIRBANKS, AK.

FOUNDATION DE

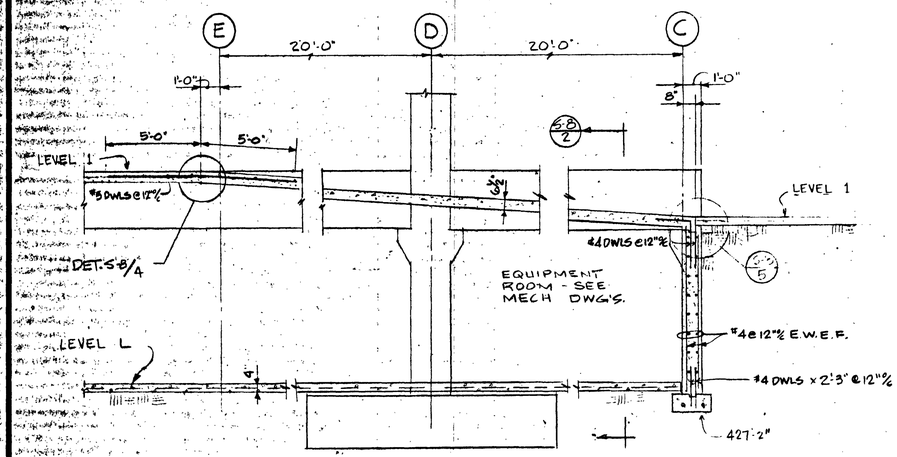
PETER KIEWIT SONS' CO.
FAIRBANKS ALASKA

DATE:

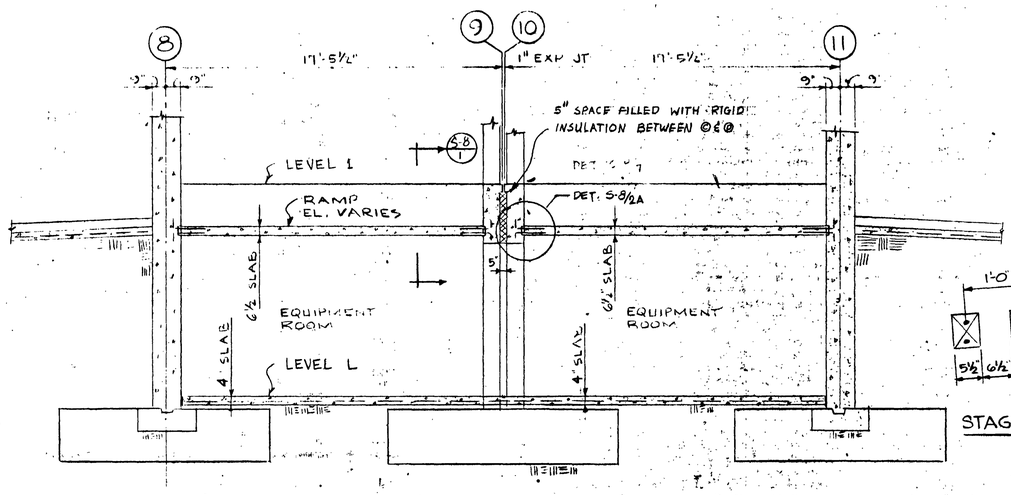
A5-BLT.

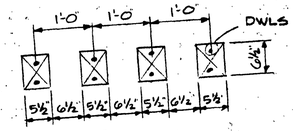
S-7

SHEET 27

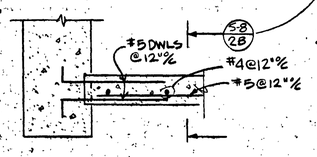


SECTION S-8/1
SCALE: 1/4"=1'-0"

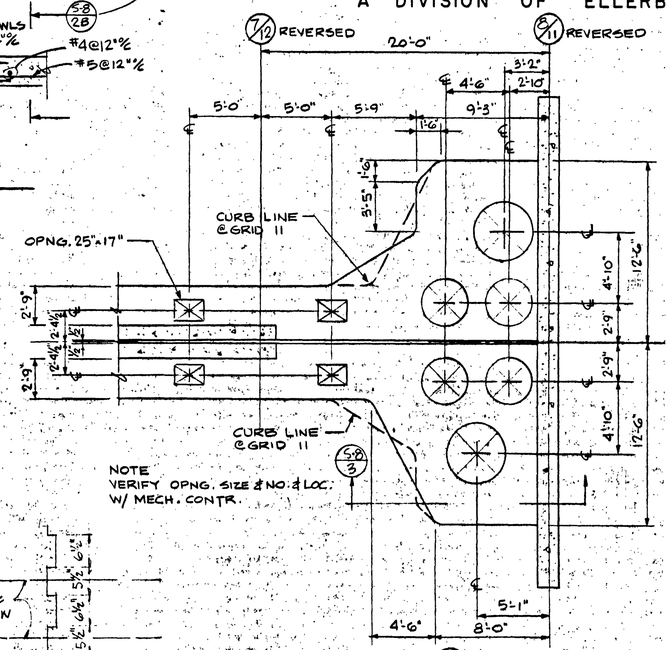




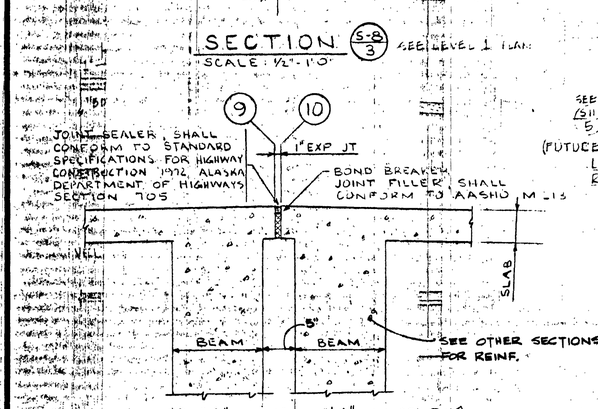
STAGGERED NOTCH LAYOUT S-8/2B

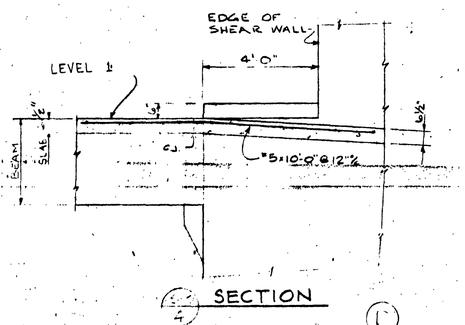


DETAIL S-8/2A
¾"=1'-0"

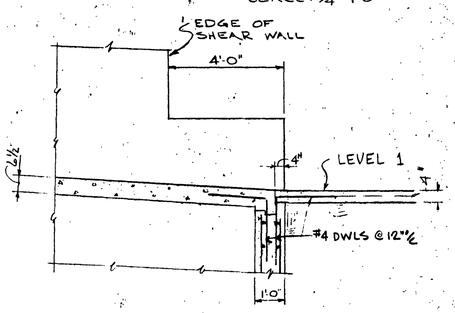


PLAN DETAIL S-8/C
3/16"=1'-0"



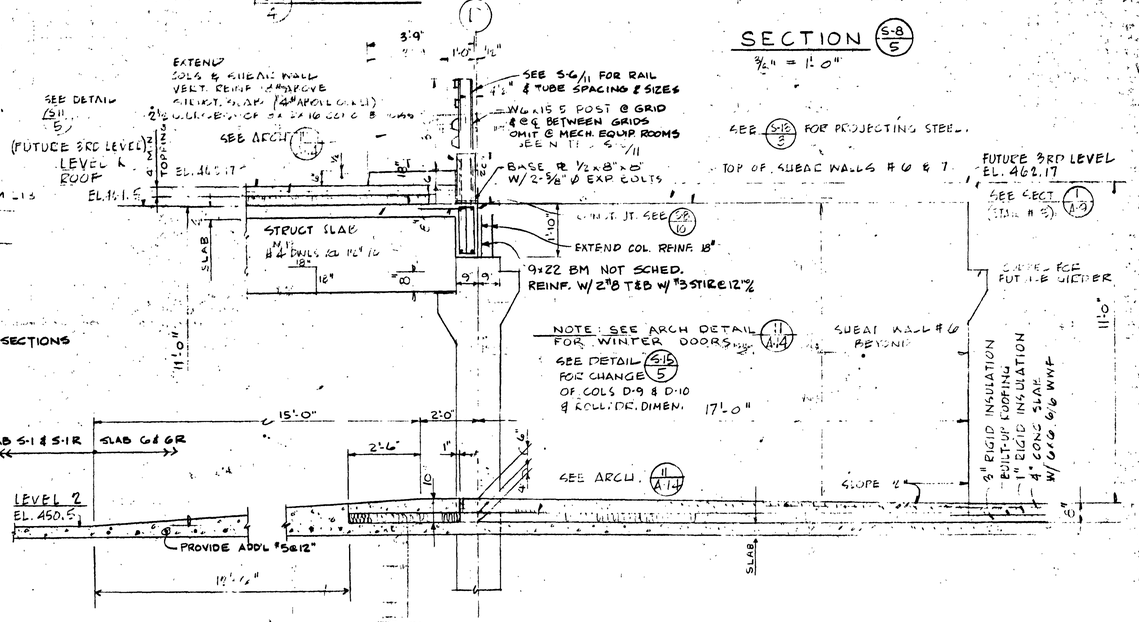


SECTION S-8/4

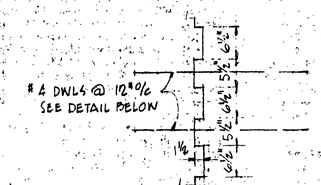


SECTION S-8/2
SCALE: ¼"=1'-0"

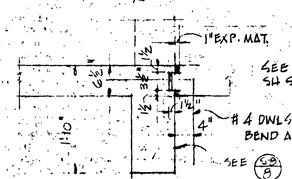
SECTION S-8/5
¾"=1'-0"



SECTION S-8/8 (FROM 11 TO 8)
SCALE: 3/16"=1'-0"



PLAN-CONST. JOINT S-8/9
3/4"=1'-0"



BEAM-CONST. JOINT AT FUTURE SLAB LOCATION S-8/10
3/4"=1'-0"

JOB NO. 73-3-734
DATE: 6-27-74

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JUNEAU ALASKA

FAIRBANKS PARKING STRUCTURE

DBA-2-0130

FAIRBANKS, AK.

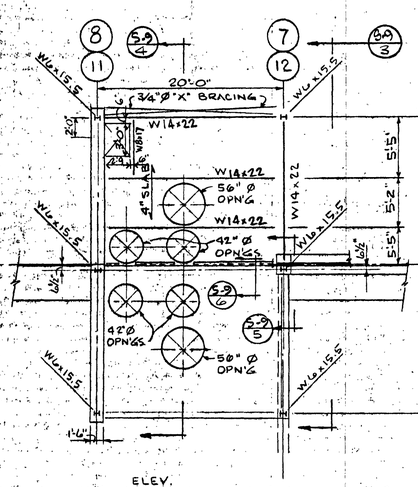
GRAY ROGERS MYERS & MORGAN
A DIVISION OF ELLERB

STRUCTURAL DET

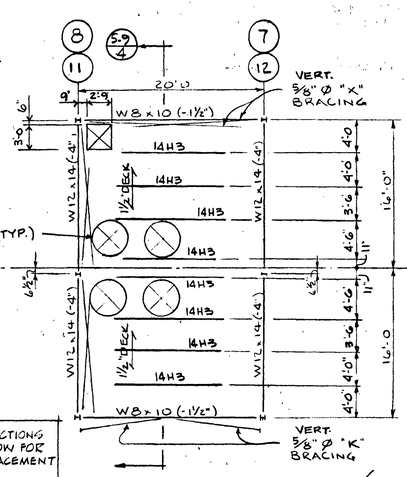
PETER KIEWIT SONS' CO.

AS-BLT

SHEET 28



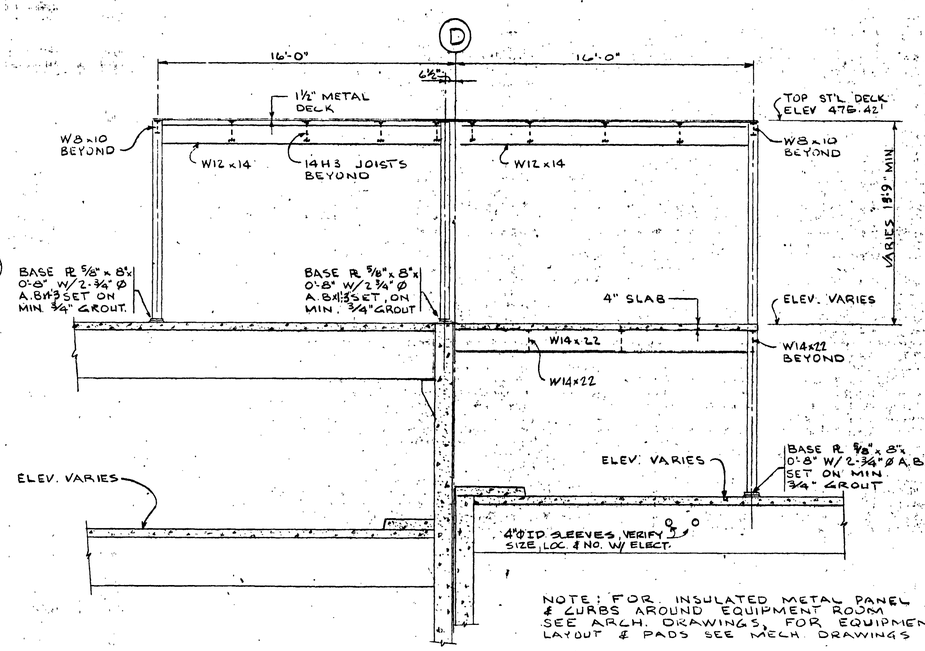
ELEV. EQUIPMENT ROOM
PART PLAN (S-9/1, S-9/1A OPP HAND)
SCALE: 1/8"=1'-0"
(ROOF LEVEL & MECH. PH. FLOOR)



PART PLAN (S-9/2, S-9/2A OPP HAND)
SCALE: 1/8"=1'-0"
(MECH. EQUIP. ROOM ROOF)

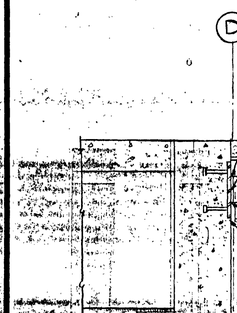
ALL STEEL FRAMING CONNECTIONS SHALL BE BOLTED TO ALLOW FOR FUTURE REMOVAL & REPLACEMENT OF PENTHOUSE.

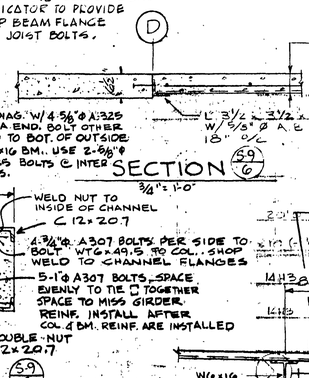
NOTES:
1. REFER TO ARCH. DRAWINGS FOR LOC. OF CURB AROUND MECH. EQUIP. ROOM.
2. VERIFY OPNG LOC. W/ MECH CONTRACTOR.
3. TOP OF 1½" (20GA.) TYPE A METAL ROOF DECK EL. 475.42'
4. ROOF BMS SHOWN THUS (-4") FROM EL 475.42'
5. JOIST TO BOLT TO BEAM W/ 2-½"Ø DIAM. BOLTS @ 3½" GAGE EA END IN LIEU OF WELDING. STEEL FABRICATOR TO PROVIDE HOLES IN TOP BEAM FLANGE TO RECEIVE JOIST BOLTS.



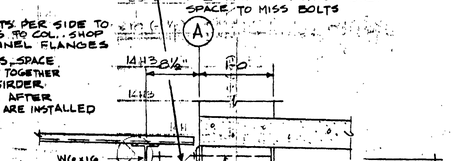
SECTION (S-9/3)
SCALE: 1/4"=1'-0"
NOTE: ALL STEEL COLUMN ANC. BOLTS 1'-3 LG.

NOTE: FOR INSULATED METAL PANEL & CURBS AROUND EQUIPMENT ROOM SEE ARCH. DRAWINGS, FOR EQUIPMENT LAYOUT & PADS SEE MECH DRAWINGS

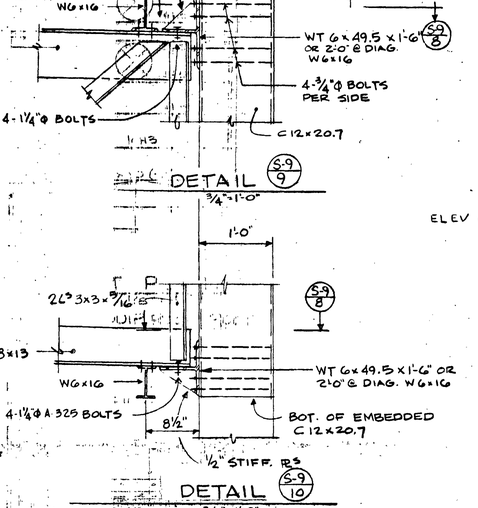




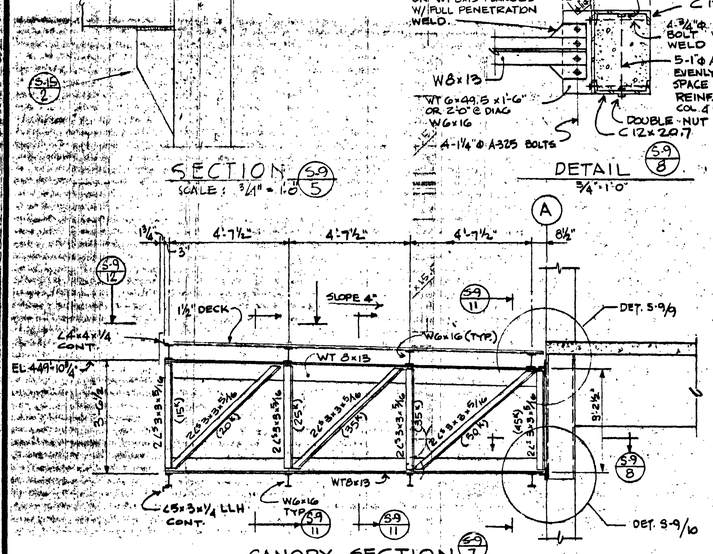
SECTION (S-9/6)
¾"=1'-0"



DETAIL (S-9/8)
¾"=1'-0"

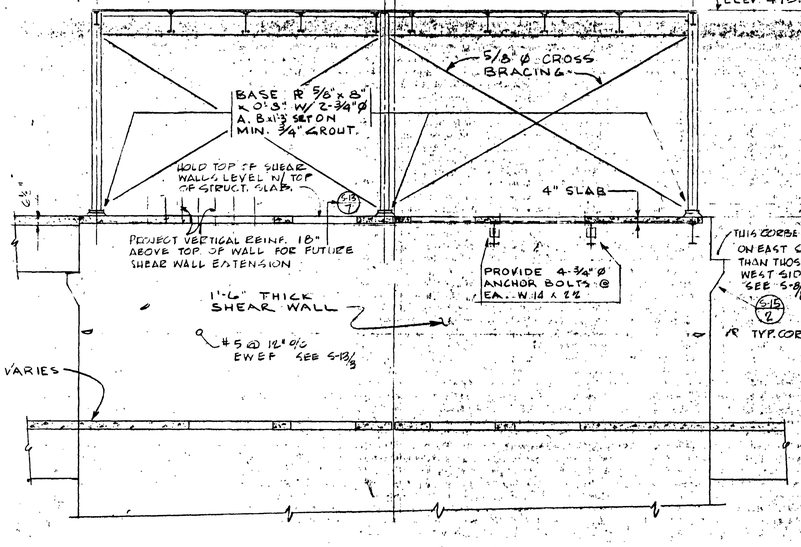


DETAIL (S-9/10)
¾"=1'-0"

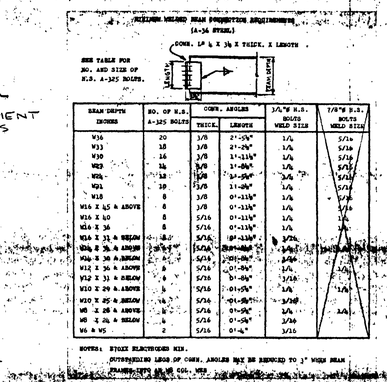


CANOPY SECTION (S-9/7)

CANOPY NOTES:
1. TRUSS CONNECTIONS TO DEVELOPE FORCES INDICATED ON SECTION S-9/7.
2. CONNECT TOP & BOT. BM'S. TO TOP & BOT. TRUSS CHORDS W/ 2-5/8"Ø A-325 BOLTS EXCEPT ROOF BM'S @ OUTSIDE FACE & BLDG FACE, USE 4-5/8"Ø A-325 BOLTS.
3. ROOF DECK TO BE 1½" (18 GA.)
4. WELD 18 GA ROOF DECK @ EA. RIB & EA. SUPPORT BM.
5. ALL ROOF DECK SIDE JOINTS TO BE WELDED @ 12" c/c
6. ROOF DECK MUST END @ 1" EXP JT. BTWN. GRIDS 9 & 10



SECTION (S-9/4)
SCALE: 1/4"=1'-0"



PENTHOUSE FRAMING PLANS AND DETAILS

GRAY ROGERS MYERS & MORGAN
A DIVISION OF ELLERBE
ARCHITECTS • ENGINEERS • SURVEYORS
601 COLLEGE ROAD, FAIRBANKS, ALASKA 99701, PHONE: 452-1241

JOB NO. 7513-72-4
DATE 6-27-74

STATE OF ALASKA
DEPT. OF PUBLIC WORKS
DIVISION OF BUILDINGS
JUNEAU ALASKA

FAIRBANKS PARKING STRUCTURE

DBA - 2 - 0130

FAIRBANKS, AK.

STATE OF ALASKA 49TH No. 494-E REGISTERED PROFESSIONAL ENGINEER

DATE

AS-BLT

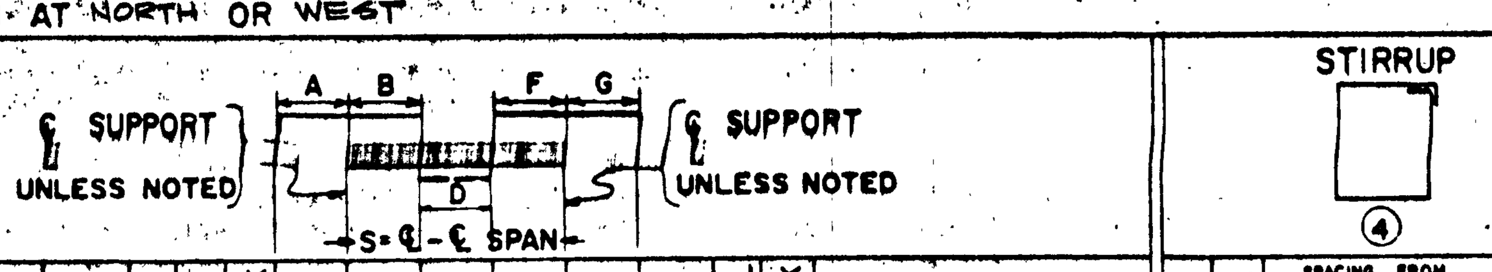
S-9

SHEET 29 OF 40

R-39.16

BEAM SCHEDULE

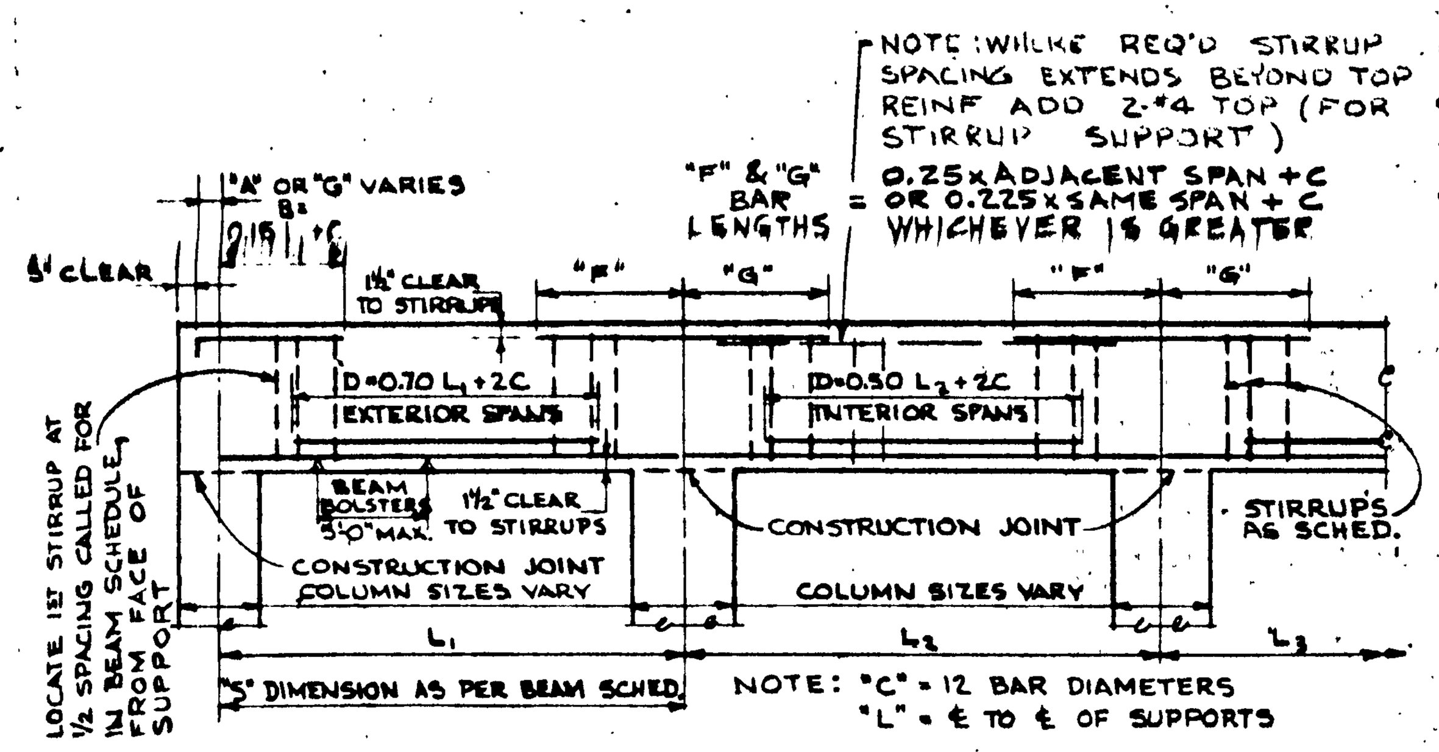
"A" DIMENSION AT NORTH OR WEST



NUMBER	SIZE	NO. & SIZE	L 0100	BOT.	TOP	HOOK	A	B	D	F	G	S	BAR L	HOOK	SECTION	NO.	SIZE	3"	6"	9"	12"	TYPE
B-1	12x14	3#7	30-9		✓	✓	3-0				7-9	20-0					#3	6		✓		4
		3#5	24-3	✓		✓	3-0				1-3											
B-2	12x14	3#6		✓						7-9	CURVED	13-5		✓	CURVED		#3	4		✓		4
		3#6			✓		1-3				CURVED			✓								
B-3	12x14			CURVED REINF. SCHED. W/ B-2													#3	✓				4
B-4	14x36	3#9	35-9		✓	✓	0-3				15-0	20-6					#3				✓	4
		2#6	20-6	✓																		
B-5	12x36	3#6	8-6		✓					8-0	0-6	16-10		✓			#3				✓	4
		3#6	16-10	✓										✓								
B-6	12x14	3#9	21-7		✓	✓	0-6				3-0	18-1		✓			#3	6		✓		4
		3#5	21-7	✓		✓	0-6				3-0			✓								
B-7	12x36	3#6			✓		9-10					CURVED		✓	CURVED		#3			✓		4
		3#6		✓							2-2			✓	CANT. TO B-7A							
B-7A	12x26	3#6	2-9	✓		✓				0-7	2-2	2-4		✓			#3		✓			4
B-8	8x26	2#6	22-1		✓	✓	0-3				0-1	22-9		✓		8	#3				4	4
		2#9	22-1	✓		✓	0-3				0-1			✓								
B-9	12x16	2#7	12-3		✓	✓	0-6				0-6	11-3		✓			#3		6		✓	4
		2#7	12-3	✓		✓	0-6				0-6			✓								
B-10	12x36	3#7			✓	✓	0-6					CURVED			CURVED		#3				✓	4
		3#7		✓		✓	0-6															
B-11	12x36	3#8	38-5		✓	✓	0-6				3-0	34-11		✓			#3				✓	4
		3#8	37-11	✓							3-0			✓								
B-12	14x6½	4#6	20-0		✓	✓	0-9				11-5	7-10					#3				✓	4
		4#6	20-0	✓		✓	0-9				11-5											
B-13	14x6½	REINF. SCHED. W/ B-12										7-0			SEE S-6/8		#3				✓	4
B-14	8x16	2#6	27-2		✓	✓	0-3				12-0	14-11				6	#3		3			4
		2#6	16-5	✓		✓	0-3				1-3											
B-15	8x16	2#5	7-4	✓			1-3				0-3	5-10		✓		6	#3		3			4
B-16	8x16	2#5	6-0		✓					5-9	0-3	9-0		✓		6	#3		3			4
B-17	8x24	2#5	11-11		✓	✓	0-3	11-8				20-9					#3			✓		4
		2#8	21-0	✓		✓	0-3							PPO								
		2#8	20-11		✓					11-8	9-3			✓								
B-18	8x16	2#5	9-3	✓							0-3	9-0		✓			#3	✓				4
B-19	12x20	3#8			✓	✓	0-6				3-0	CURVED		✓	CURVED		#3		6	✓		4
	SIZE	3#8		✓		✓	0-6				3-0			✓								
B-20	8x18	2#6	21-3		✓	✓	0-3				0-3	20-9		✓			#3		2		✓	4
		2#6	21-3	✓		✓	0-3				0-3			✓								
B-21	8x18	2#5	9-2		✓	✓	0-6				0-3	8-5		✓			#3				✓	4
		2#5	9-2	✓		✓	0-6				0-3			✓								
B-22	12x18	2#6			✓	✓	2-2				0-6	CURVED		✓	CANT. CURVED		#3			✓		4
		2#6		✓		✓	2-2				0-6			✓			#3		✓ @ CANT.			
B-23	12x18	2#6	16-2		✓	✓	0-6				0-3	15-[illegible]		✓			#3		2		✓	4
		2#6	16-2	✓		✓	0-6				0-3			✓								
B-24	12x18	2#6	17-10		✓	✓	0-6				0-6	16-10		✓			#3		2		✓	4
		2#6	17-10	✓		✓	0-6				0-6			✓								
B-25	8x18	2#6	22-1		✓	✓	0-3				0-1	21-9		✓			#3		2		✓	4
	12x36	2#6	22-1	✓		✓	0-3				0-1			✓								
B-26	12x18	2#7	17-9		✓	✓	0-6				0-6	16-9		✓			#3		2	✓		4
		2#7	17-9	✓		✓	0-6				0-6			✓								
B-27	12x18	2#7	9-6		✓	✓	0-3				0-3	9-0		✓			#3		4	✓		4
	12x36	2#7	9-6	✓		✓	0-3				0-3			✓								
B-28	12x18	2#8	25-4		✓		4-0				0-3	21-1		✓			#3		4	✓		4
		2#8	21-7	✓		✓	0-3				0-3			✓								

NOTES:
1. SEE PLAN DETAILS SHT. S-3, S-4 & S-5 FOR CURVED BEAMS
2. ✓ INDICATES BM. STIRRUPS TO BE CONT. @ SPACING INDICATED.

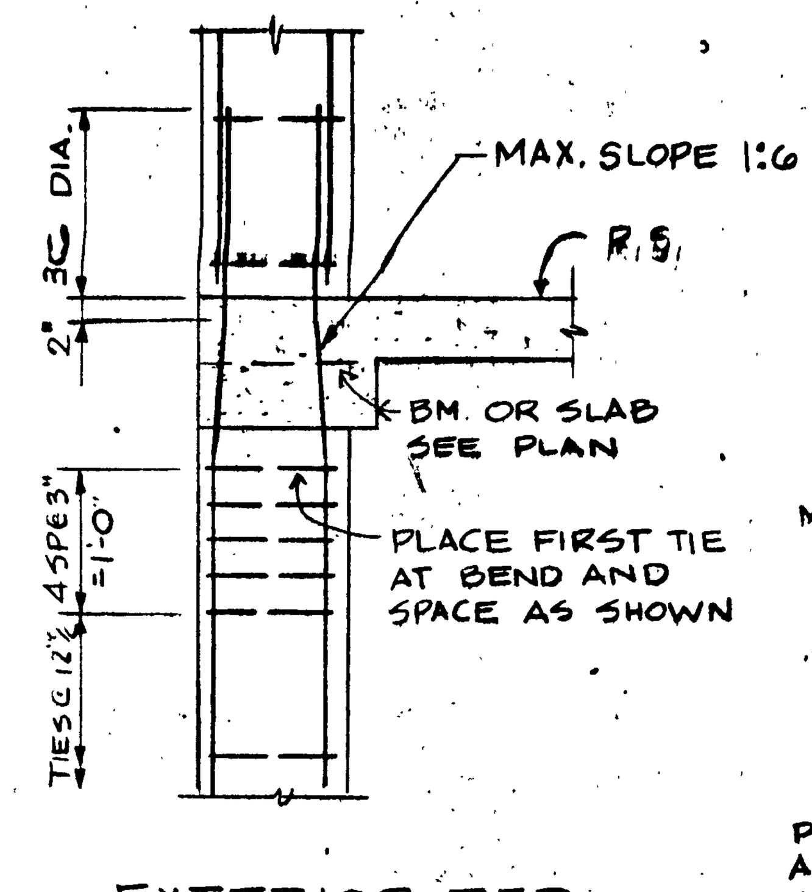
JOB NO. 7313-734
DATE: 6-27-74



TYPICAL BEAM DIAGRAM

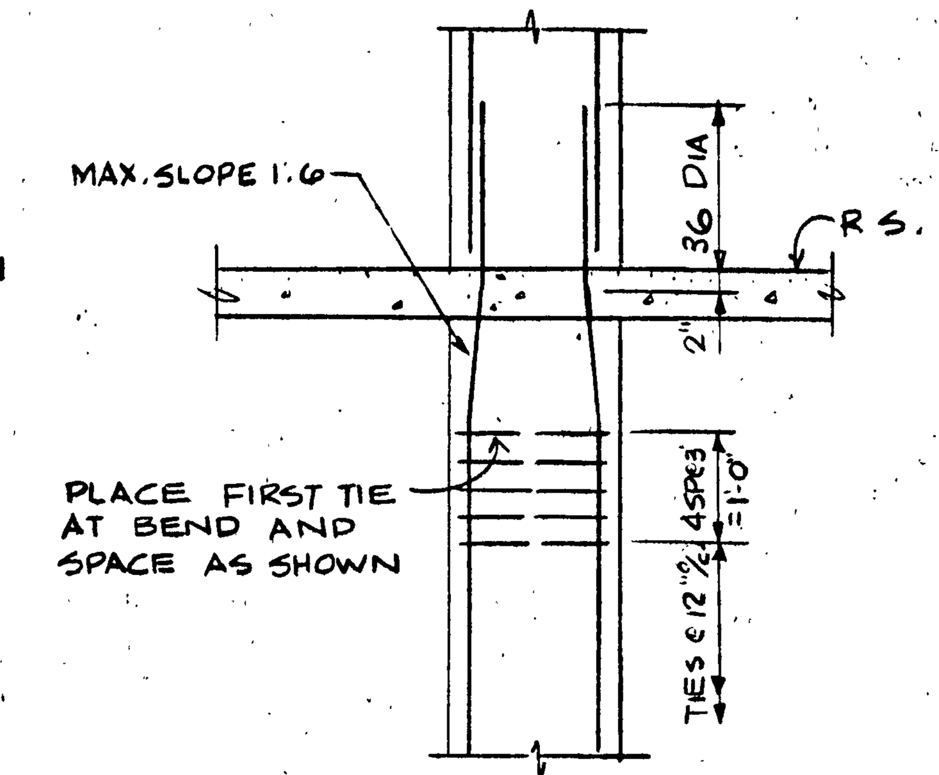
NOTES:
1. UNLESS SHOWN OTHERWISE IN BEAM SCHEDULE, THE FOLLOWING CONDITIONS SHALL GOVERN FABRICATION OF REINFORCING STEEL: ALL LENGTHS GIVEN IN SCHEDULE ARE FINISHED BAR LENGTHS AND DO NOT INCLUDE ADDITION OR REDUCTION REQUIRED FOR MAKING BENDS. ALL VARIATIONS FROM TYPICAL DIAGRAM ARE NOTED IN SCHEDULE.
2. FOR SPANDREL BEAMS LAP TOP BARS 12" MINIMUM.

Sheets S-1 thru S-14 indicate a cast-in-place post tensioned beam and slab structural system. The quantities of post-tensioning forces and/or materials along with the quantities of conventional reinforcing shown on Sheet S-1 thru S-14 are the Engineer's solution to sustain the gravity floor loads as indicated on the plans and meet the indicated Code requirements. The Engineer is aware that there may be other combinations of post tensioning materials and conventional reinforcing materials that will adequately sustain the gravity floor loads and still meet the indicated Code requirements. The Contractor may at his own option submit an alternate design for the post tensioned beam and slab structural system only utilizing other combinations of post-tensioning and conventional reinforcing materials. Member sizes, widths, thicknesses, lengths, depths, etc. shall remain as indicated on the drawings. The proposed alternate design for the post tensioned beam and slab structural system shall be submitted to the Engineer for approval prior to the commencement of any work. The submitted alternate design shall clearly indicate the amounts of post tensioning materials and conventional reinforcing materials to be used and all pertinent details. The submitted alternate design shall be accompanied by structural calculations done under the supervision of a registered professional engineer experienced in post-tensioned ~~concrete design. These calculations shall clearly~~ indicate the post-tensioning force assured, friction losses assured, conventional reinforcing used, working stresses, shear reinforcement calculations, ultimate moment capacity, and all other pertinent calculations required to satisfy the ACI 318-71 Code and the Uniform Building Code 1973.



EXTERIOR TIED

NOTE
ALL COLUMN TIES TO BE #3 @ 12" ℄ U.N.



INTERIOR TIED

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(SEE S-14/4 FOR TYPICAL COLUMN & P-T GIRDER DETAILS)

COLUMN SCHEDULE

		POURED-IN-PLACE COLUMNS							
COLUMN NUMBER / SUPPORTING		A.3-1*, A.3-18*, F.7-1, F.7-18	A.7-17	A-1.3*, 2, 6 THRU 13, 17, 17.7*, D.1*, B-17.7*, B.5-17.7, Dw-3, Dw-4, 15, 16, De-3, 4, 15, 16, F-1, 18, G-1.3, 2, 6, 7, 13, 12, 17, G-17.7, F-7.1, F-7-18	D-2, D-17	D-9, D-10	G-8, G-9, G-10, G-11	B.1-1.3*	A.7-17.7
STAIR 1 & 2 TOWER	SIZE	*		* 12x18				* 8x16	
	REINF.	4#7		4#7					
[redacted]									
LEVEL R ROOF	SIZE			12x18	18x25	16x18	12x18	8x16	
	REINF.	4#8		‡ 4#8	4#10	‡4#8	‡4#8	—	
LEVEL 2	SIZE		14x14	12x18	18x25	16x18	12x18	8x16	8x16
	REINF.	4#10	4#7	‡ 4#10	6#10	‡4#10	‡4#10		4#6
LEVEL 1	SIZE					16x18	12x18		
	REINF					‡4#10	‡4#10		
SECTION		1	2	2	2 & 3	2	2		2

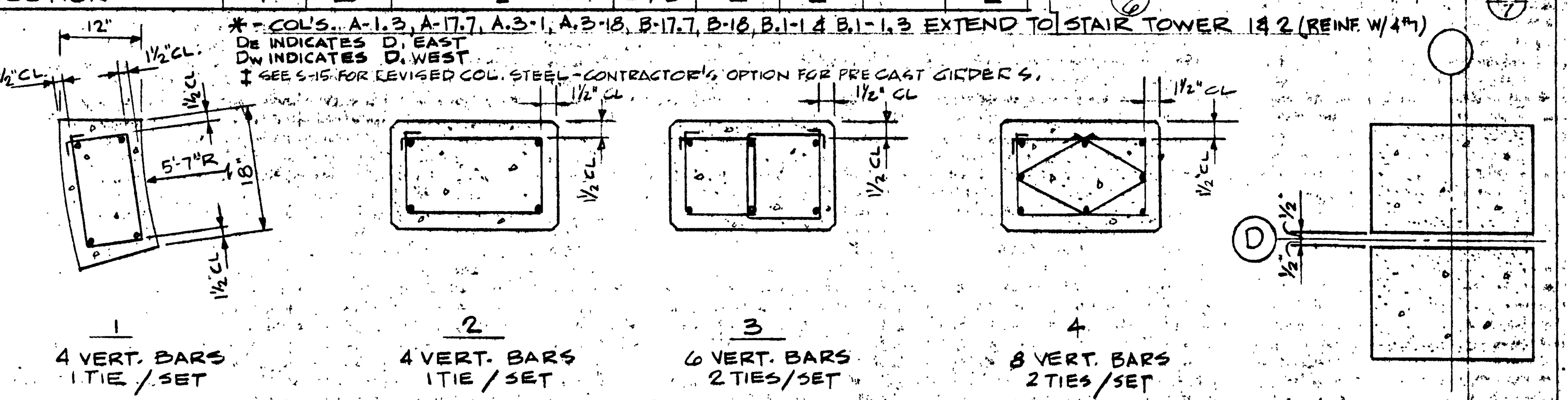
FUTURE 3RD LEVEL

SEE S-1F FOR COLUMN STEEL REQUIREMENTS & CORBEL DETAILS FOR PRECAST GIRDER OPTION

EXTEND COL. REINF. BARS (GRID LINE D) 18" AT ROOF LEVEL (FUTURE 3RD LEVEL) FOR FUTURE COLUMNS. ENCLOSE IN CONC. BLK. - SIM. TO (S-11/6)

EXTEND REINF. BARS 4" AT ROOF LEVEL STAIRS. SEE (S-11/6) - ALSO ALL COLS ON A, G, 1 & 18 (S-11/7)

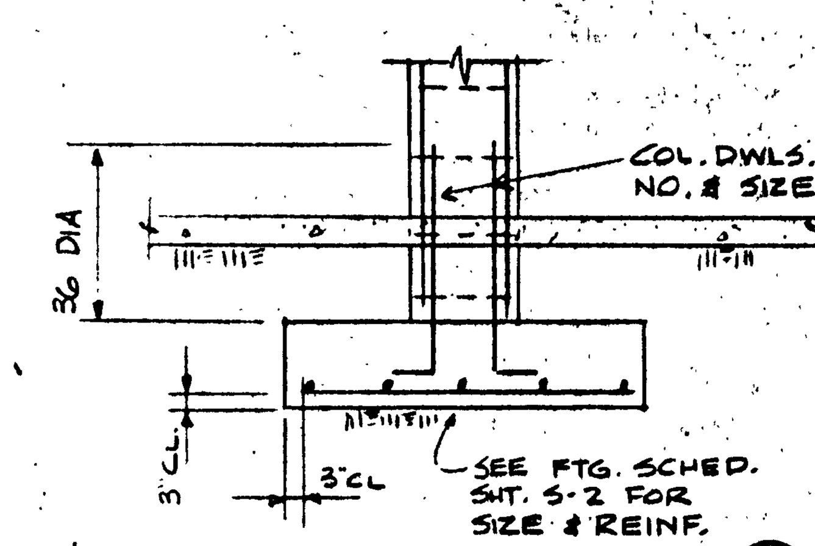
* - COL'S. A-1.3, A-17.7, A.3-1, A.3-18, B-17.7, B-18, B.1-1 & B.1-1.3 EXTEND TO STAIR TOWER 1 & 2 (REINF. W/ 4#7)
De INDICATES D, EAST
Dw INDICATES D, WEST
‡ SEE S-15 FOR REVISED COL. STEEL - CONTRACTOR'S OPTION FOR PRECAST GIRDERS.



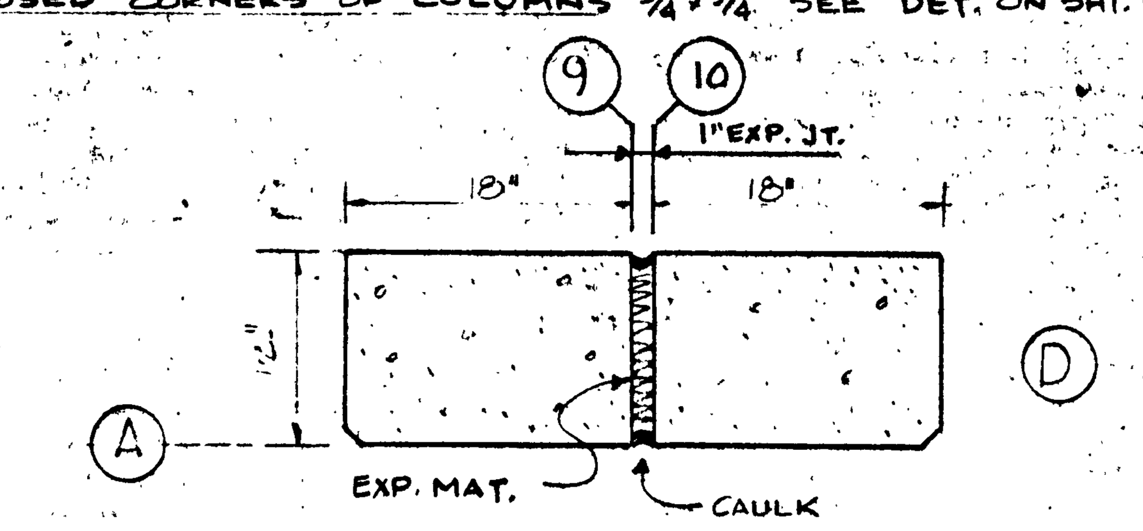
COLUMN SECTIONS

NOTES: 1. FOR COL SIZE & REINF. IN SHEAR WALLS SEE SHTS. S-11, S-12 & S-13
2. CHAMFER EXPOSED CORNERS OF COLUMNS ¾" x ¾" SEE DET. ON SHT. S-1

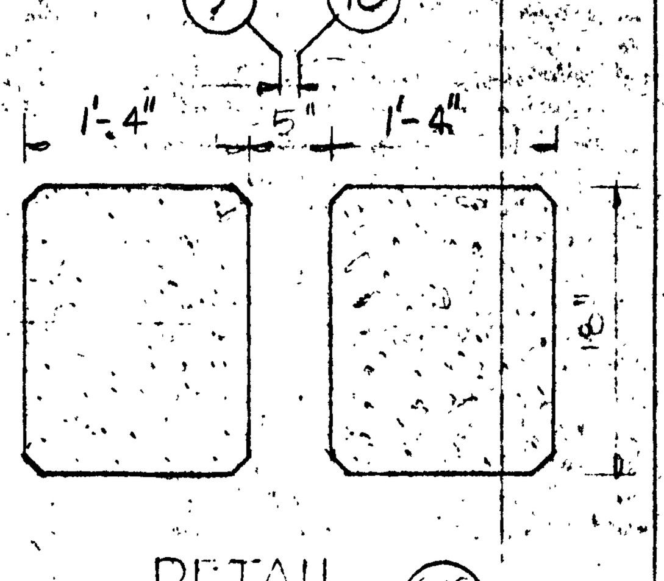
DETAIL (S-10/3)



TYP. FOOTING DETAIL (S-10/1)
POURED-IN-PLACE COL



DETAIL (S-10/2)
1" = 1'-0"



DETAIL (S-10/3)
1" = 1'-0"

NOTE: CHAMFER CORNERS EXCEPT COLS AT ROLLING DOOR JAMBS (12/A-6)

BEAM AND COLUMN SCHEDULE AND DETAILS

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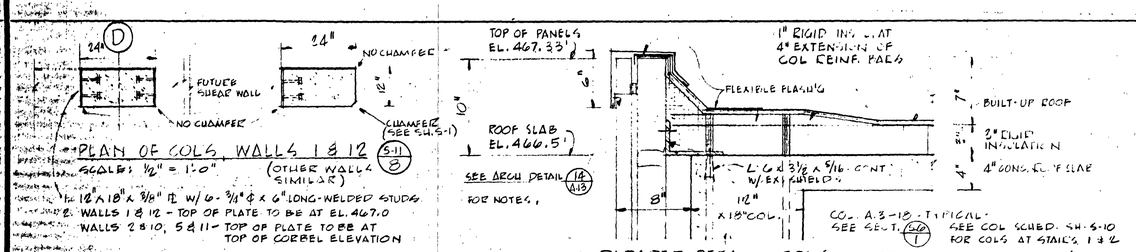
S-10

SHEET 30 OF 49



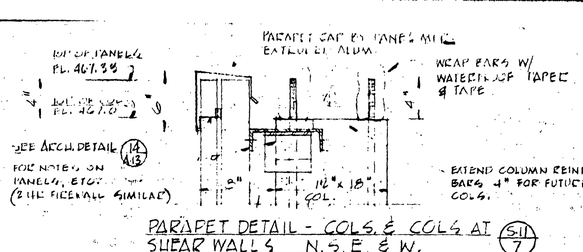
PLAN OF COLS. WALLS 1 & 12 (S-11 8)

SCALE: 1/2" = 1'-0" (OTHER WALLS SIMILAR)

1. 12"x18"x 3/8" ℄ W/ 6-3/4"ϕ x 6" LONG WELDED STUDS
2. WALLS 1 & 12 - TOP OF PLATE TO BE AT EL. 467.0
   WALLS 2 & 10, 5 & 11 - TOP OF PLATE TO BE AT TOP OF CORBEL ELEVATION

PARAPET DETAIL - COLS. AT STAIRS NO 1 & NO 2 (S-11 6)

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



PARAPET DETAIL - COLS. & COLS AT SHEAR WALLS N, S, E, & W. (S-11 7)

SCALE: 1 1/2" = 1'-0"

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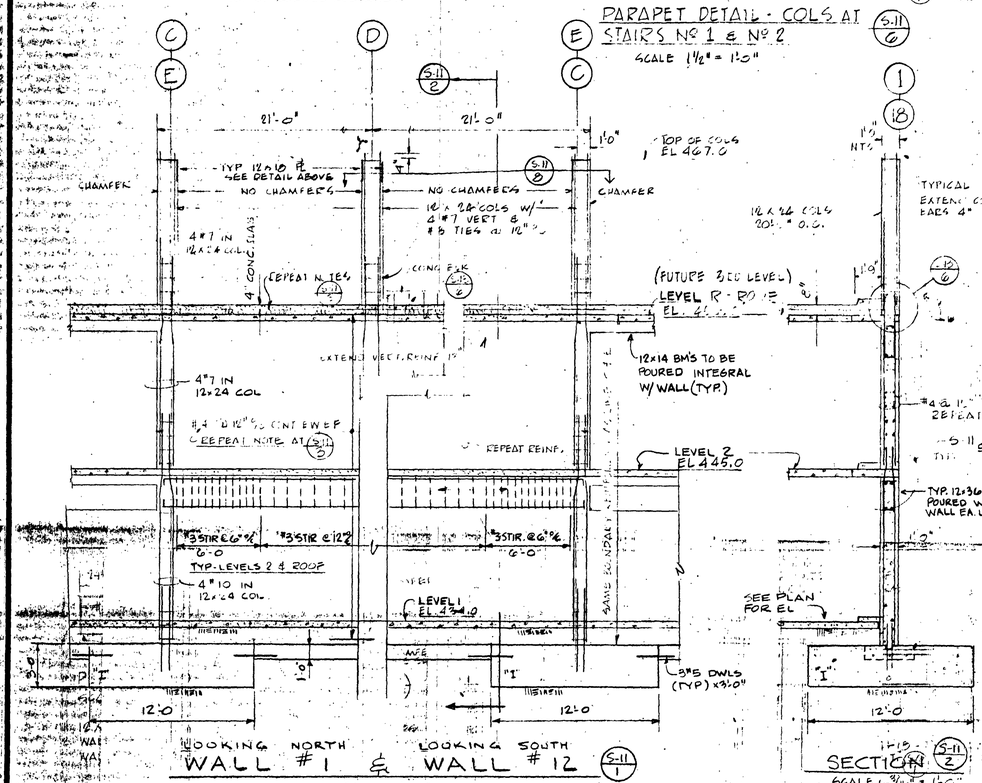


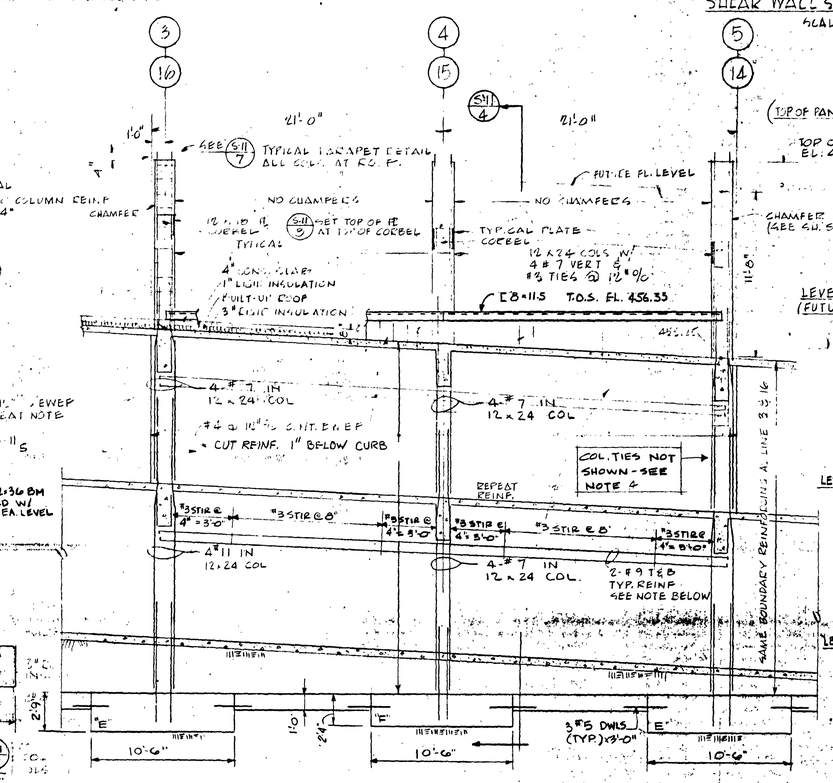
LOOKING NORTH — LOOKING SOUTH

WALL #1 & WALL #12 (S-11 1)

SCALE 3/16" = 1'-0"

SECTION (S-11 2)

SCALE 3/16" = 1'-0"

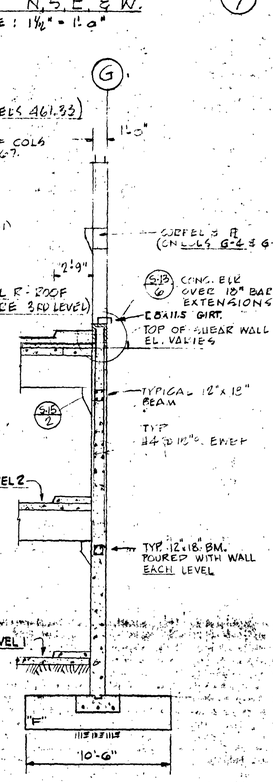


LOOKING EAST — LOOKING WEST

WALL #2 & WALL #10 (S-11 3)

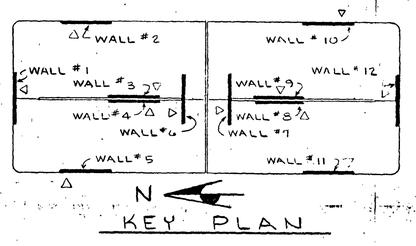
SCALE: 3/16" = 1'-0"

NOTE: PROVIDE 12x18 BM (TYP. ALL FRAMED LEVELS, SEE SECTION) REINF. W/ 2-#9 TOP & BOT., STIRRUPS #3@4"℄ FOR 1'-3'-0" FROM EACH COL. FACE & #3@8"℄ FOR REMAINDER OF BM. FOR WALL LOCATION SEE KEY PLAN THIS SHEET



SECTION (S-11 4)

SCALE 3/16" = 1'-0"



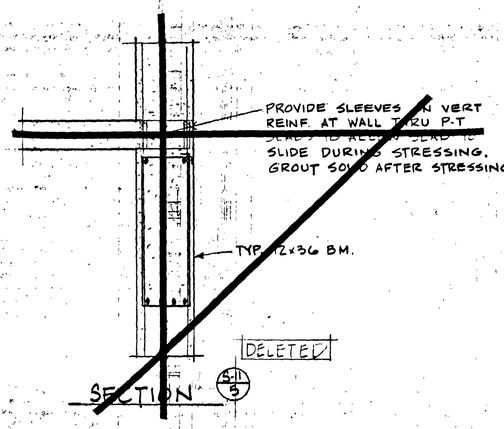
KEY PLAN

SHEAR WALL NOTES:

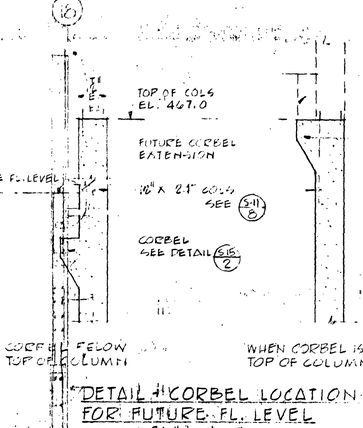
1. ALL HORIZONTAL REINFORCING SHALL BE HOOKED INTO CAGE OF BOUNDARY REINFORCING.
2. ALL VERTICALS SHALL BE FULLY DEVELOPED WITH DOWELS INTO THE FOOTING.
3. ALL SPLICES IN REINFORCING BE TREATED AS CLASS B TENSION LAP SPLICES AND SHALL BE STAGGERED SUCH THAT NOT MORE THAN 50% ARE SPLICED AT A GIVEN SECTION.

BAR SIZE	REQUIRED LAP
# 5	20"
# 6	24"
# 7	30"
# 8	39"
# 9	49"
# 10	63"
# 11	77"

4. TIES FOR BOUNDARY REINFORCING SHALL BE #4 @ 12"℄ W/ 3 EXTRA TIES @ 3" SPACING AT BAR BENDS AND 10 EXTRA TIES @ 2" SPACING BELOW AND ABOVE "BEAM BEARING" POINTS.
5. ALL CONSTRUCTION JOINTS AND DETAILS MUST FOLLOW THOSE SHOWN ON THESE DRAWINGS.
6. SEE S-14/5 FOR TYPICAL POST-TENSIONED BEAM TO SHEAR WALL DETAIL.
7. SEE SHT. S-15 FOR HAUNCH DETAILS FOR PRECAST GIRDER OPTION.
8. PLACE ADD'L #4 x 4'-0" VERT. @ 12"℄ E.F. ALL HORIZ. CONSTRUCTION JOINTS IN SHEAR WALLS. SEE DETAIL AT LEFT.
9. ALL SHEAR WALL DETAILS INDICATED FOR P-T SYSTEM ONLY.



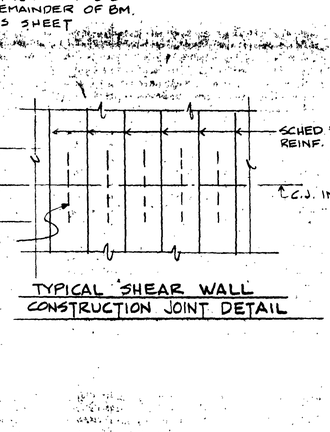
SECTION (S-11 5)



DETAIL #1 CORBEL LOCATIONS FOR FUTURE FL. LEVEL (S-11 9)

SCALE: 3/8" = 1'-0"

NOTE: SET 11'-3" FL. TO FL. HEIGHT. IF CORBEL EL. FIGURED ABOVE TOP OF COL., SET CORBEL AT COL. HEIGHT, EL. 467.0



TYPICAL SHEAR WALL CONSTRUCTION JOINT DETAIL

JOB NO.: 7312-734

DATE: OCT. 74

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STATE OF ALASKA 49TH — No. 494-E — REGISTERED PROFESSIONAL ENGINEER

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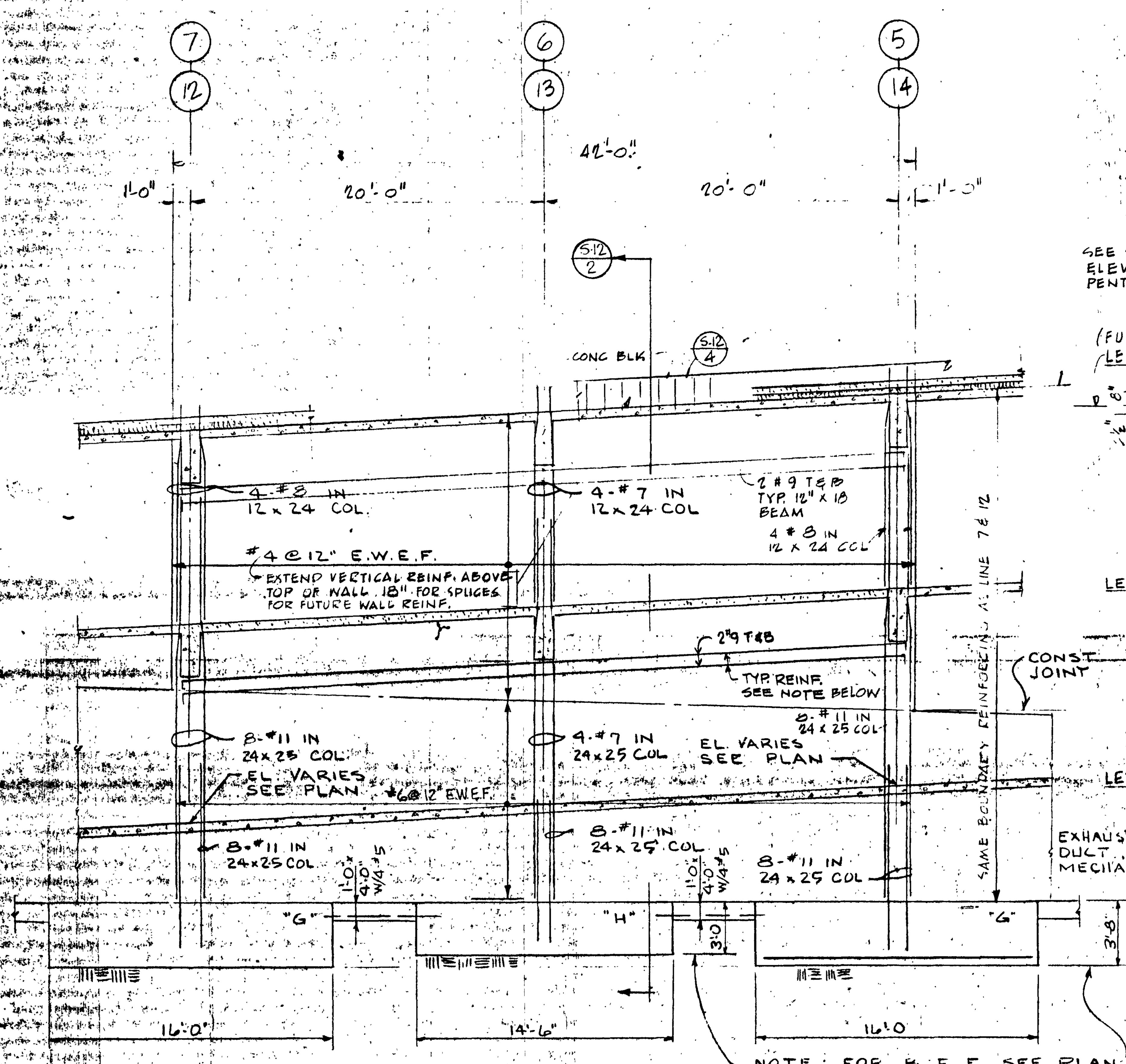
SHEAR WALL ELEVATIONS AND DETAILS

S-11

SHEET 31 OF 49

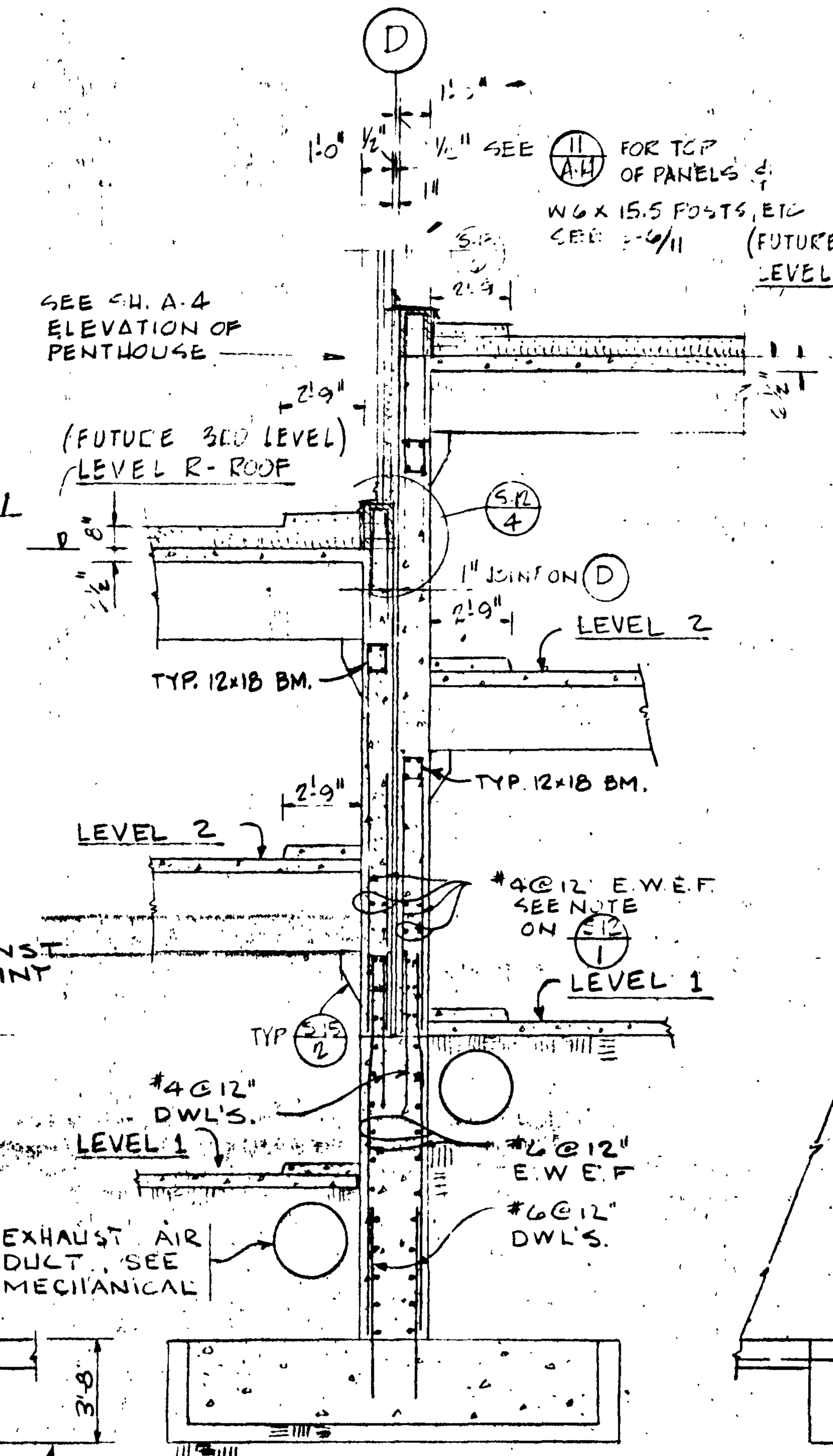
R 39-16



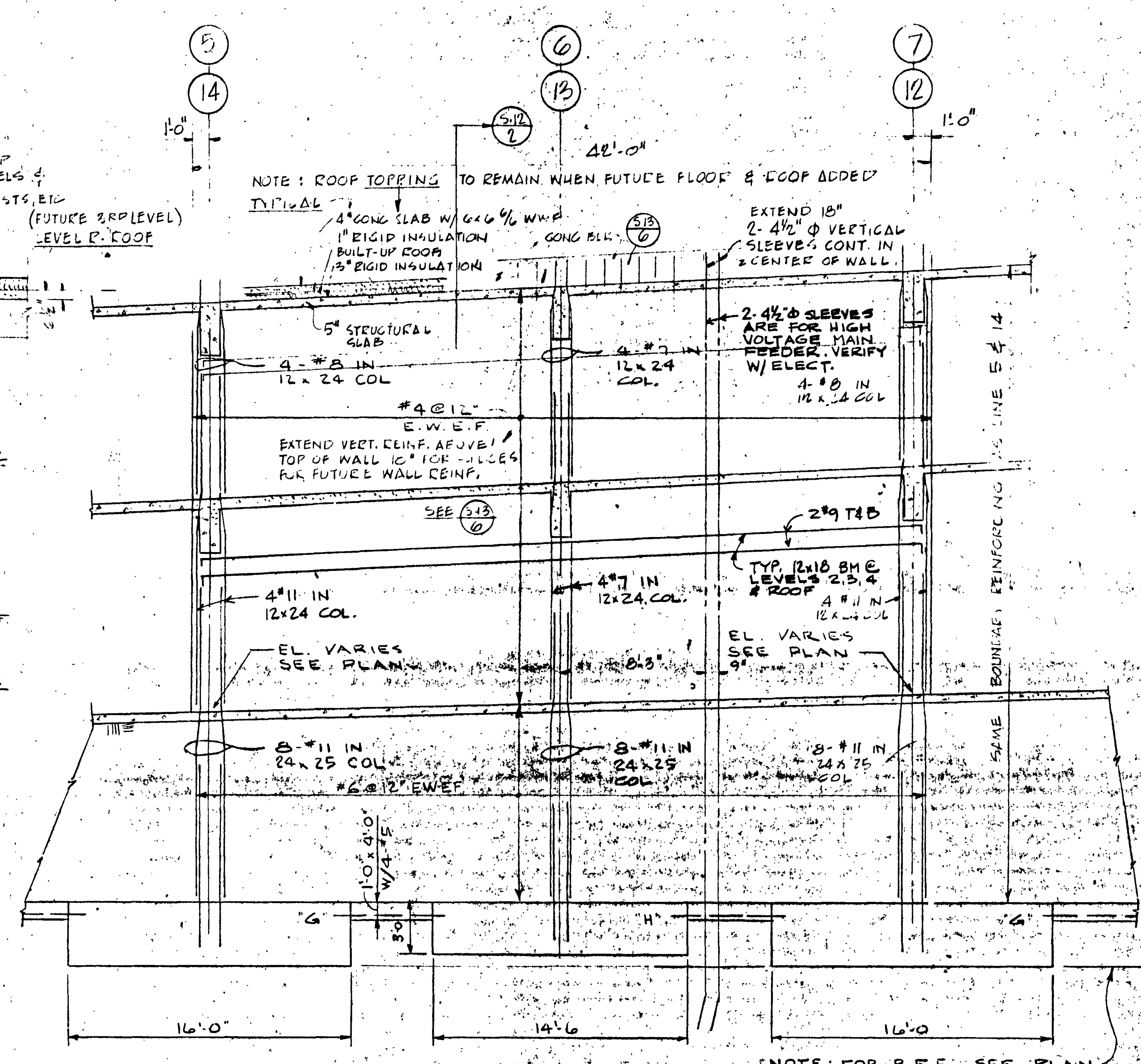
LOOKING WEST — LOOKING EAST
WALL #3 & WALL #9 (S-12/1)
SCALE 3/16" = 1'-0"

NOTE: PROVIDE 12 x 18 BEAM (TYPICAL ALL FRAMED LEVELS, SEE WALL ELEV REINF. WITH 2-#9 TOP & BOT., STIRRUPS #3 @ 4" FOR 1ST 3'-0" FROM EACH COLUMN & #3 @ 8" FOR REMAINDER OF BEAM

FOR WALL LOCATION SEE KEY PLAN ON SHEET NO. S-11
SEE ADD'L NOTES ON SHT. S-11

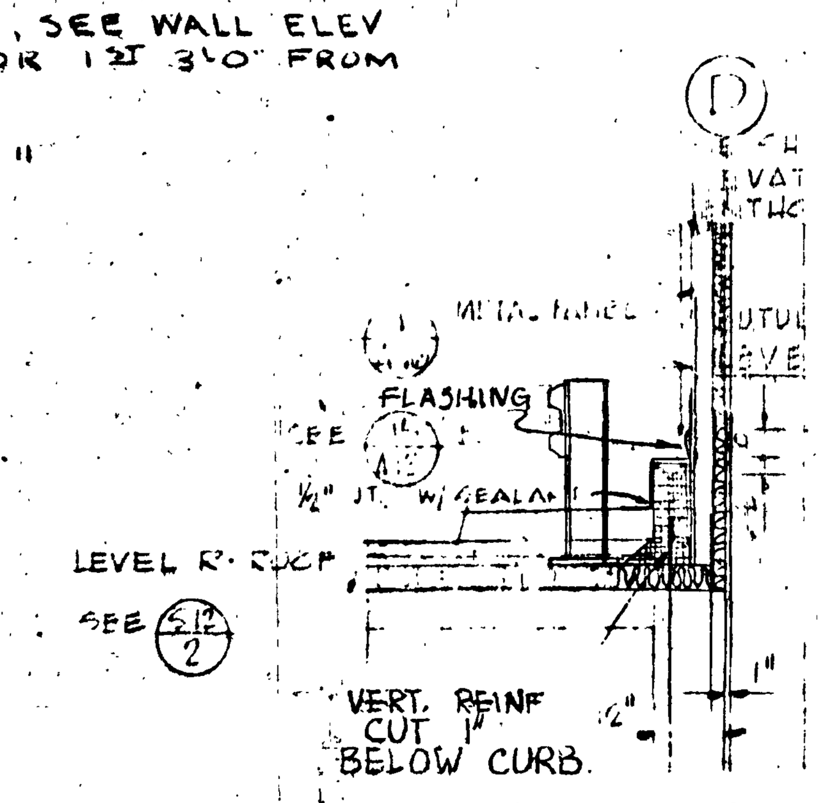


SECTION (S-12/2)
SCALE 3/16" = 1'-0"



LOOKING EAST — LOOKING WEST
WALL #4 & WALL #8 (S-12/3)
SCALE 3/16" = 1'-0"

NOTE: FOR WALL LOCATION SEE KEY PLAN ON SHEET NO. S-11
SLEEVES SHOWN ARE FOR WALL #4 ONLY
SEE ADD'L NOTES ON SHEET S-11



SECT. AT SHEAR WALLS (S-12/4)
3/4" = 1'-0"

SHEAR WALL ELEVATIONS

JOB NO.: 7313-734
DATE: 6-27-74

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FAIRBANKS PARKING STRUCTURE
DBA-2-0130
FAIRBANKS, AK.

PETER KIEWIT SONS' CO.
FAIRBANKS ALASKA
APPROVED:
OWNER'S REP.
DATE
AS-BLT

S-12
SHEET 32 OF 49

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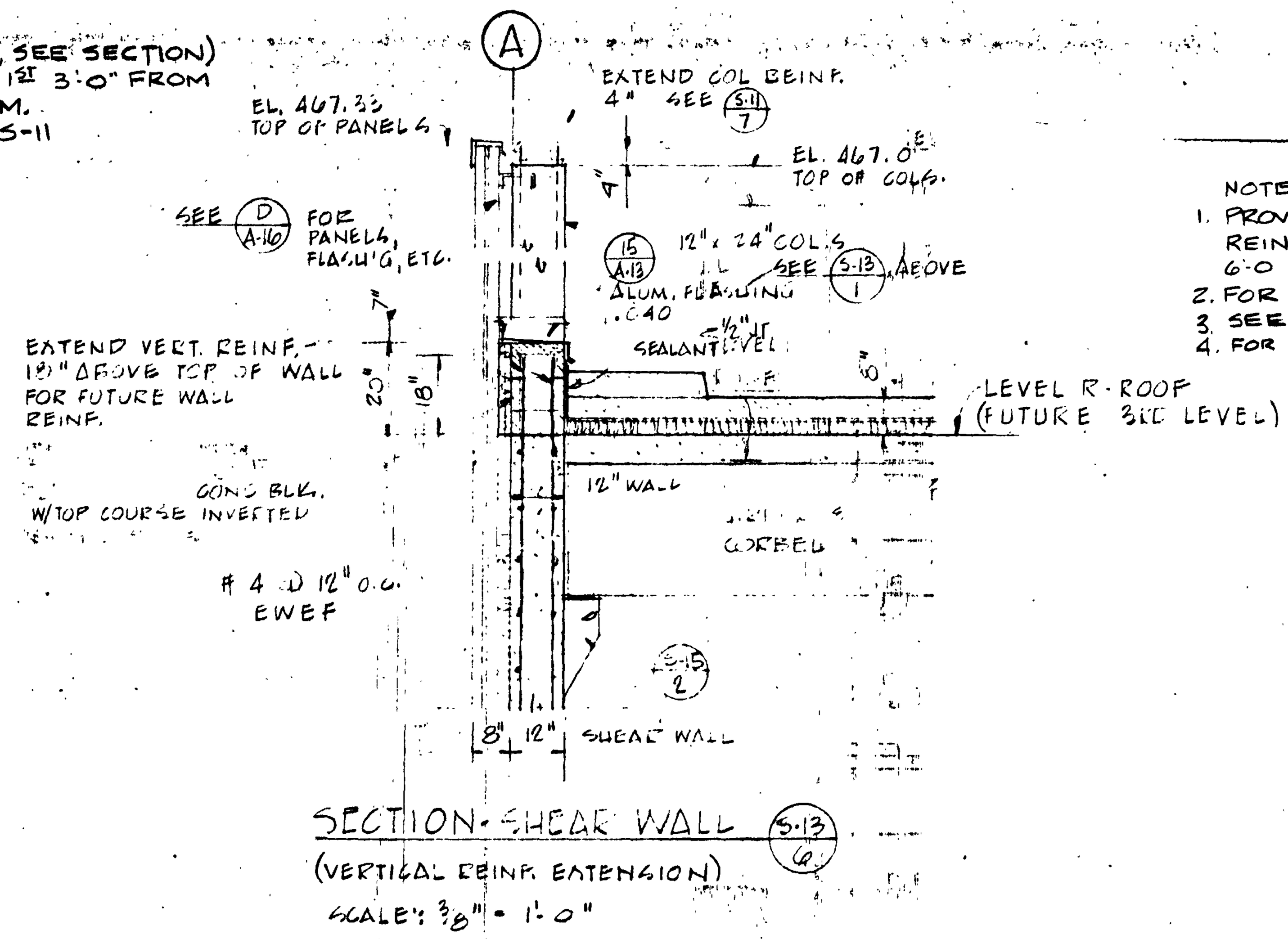
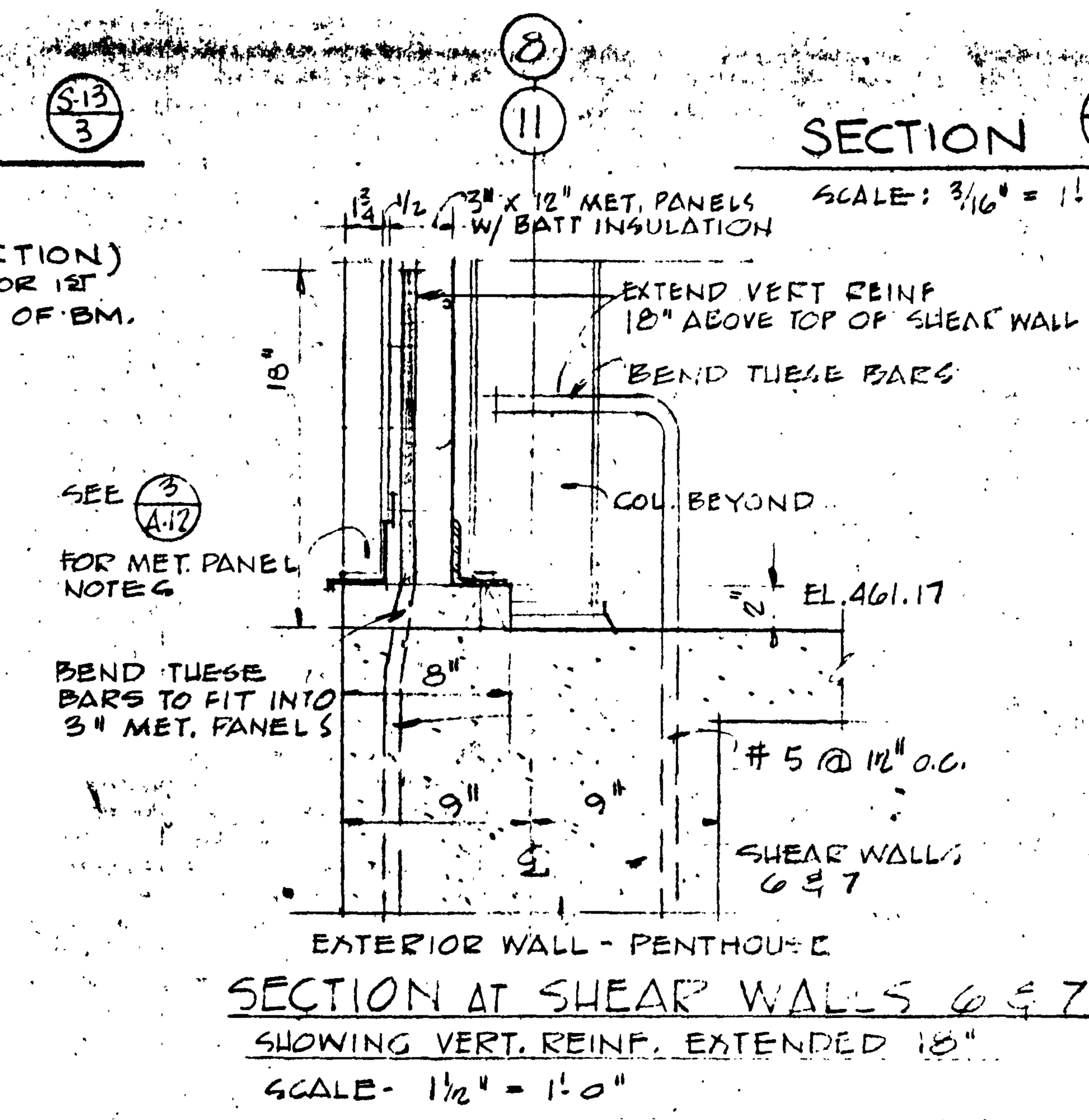
NOTES
1. PROVIDE 12×18 BEAM (TYP. ALL FRAMED LEVELS, SEE SECTION) REINF. W/ 2 #9 TOP & BOT., STIRRUPS #3 @ 4" o/c FOR 1ST 3'-0" FROM EA. COLUMN & #3 @ 12" o/c FOR REMAINDER OF BEAM.
2. FOR WALL LOCATION SEE KEY PLAN ON SHEET S-11
3. FOR ADDL. NOTES SEE SHT. S-11

NOTES:
1. PROVIDE 18×24 BEAM (ALL FRAMED LEVELS, SEE SECTION) REINF. W/ 2 #10 TOP & 4 #10 BOT., STIRRUPS #3 @ 6" FOR 1ST 6'-0" FROM EACH COLUMN & #3 @ 12" FOR REMAINDER OF BM.
2. FOR WALL LOCATION SEE KEY PLAN SHEET S-11.
3. SEE S-13/5 FOR SLEEVE DETAIL
4. FOR ADDL NOTES SEE SHT. S-11





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DATE: 6-27-74

SHEAR WALL ELEVATIONS

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FAIRBANKS PARKING STRUCTURE

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FAIRBANKS, AK.

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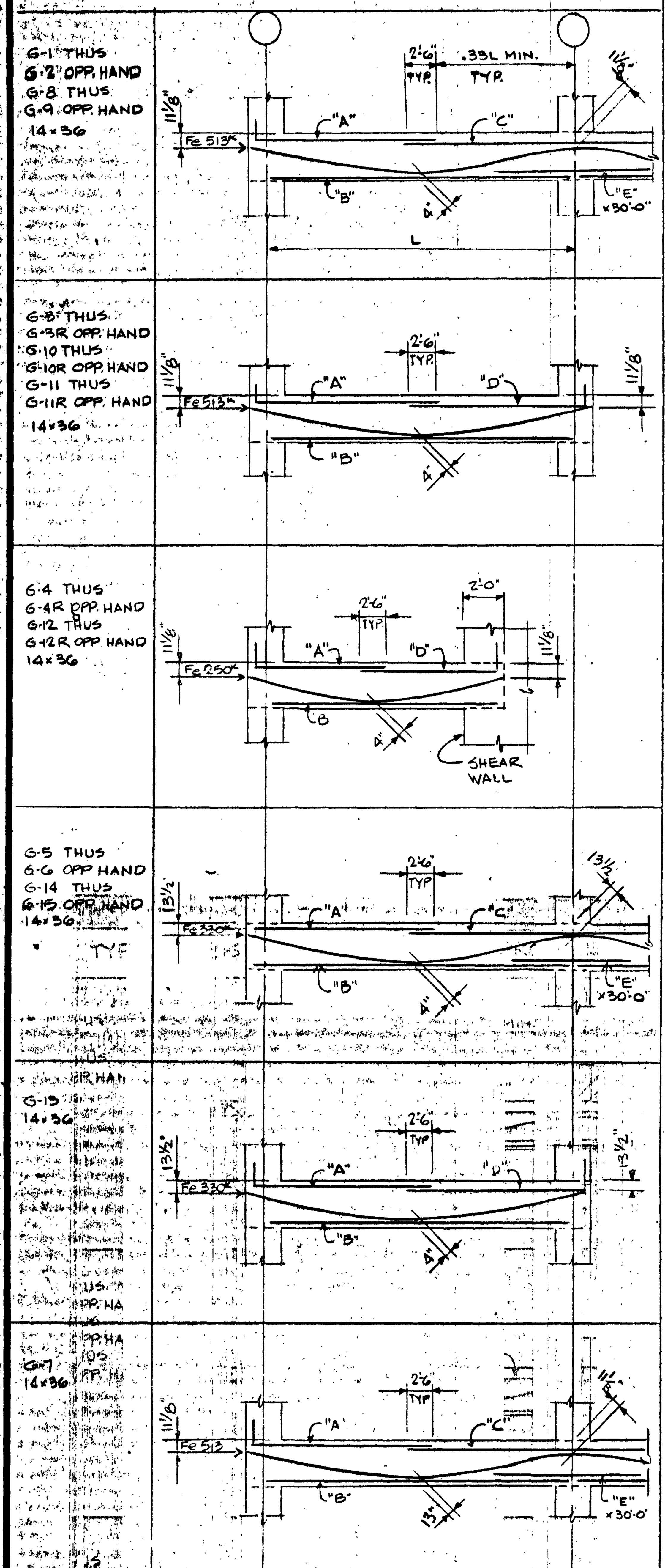
S-13

SHEET 33 OF 49

TYPICAL POST-TENSION STRAND PROFILES

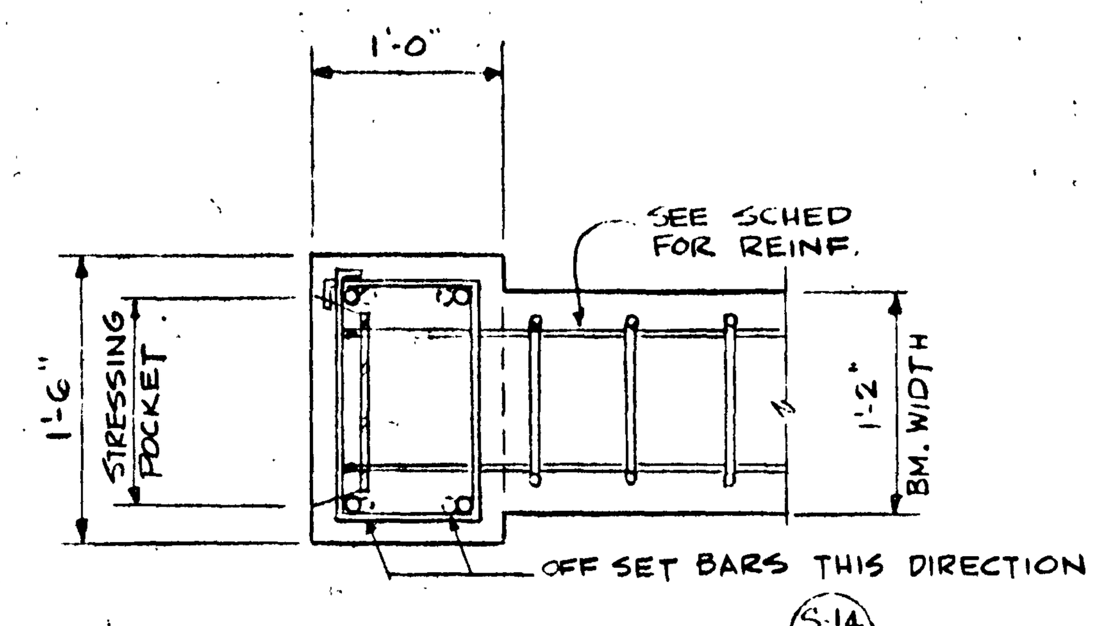


ADDITIONAL REINFORCING REQUIRED						STIRRUPS REQ'D @ SPACING FROM EA. END				
GIRDER	"A"	"B"	"C"	"D"	"E"	3"	6"	9"	12"	24"
G-1, G-2 OPP. HAND	2#7	2#7	6#9 2 LAY		8#9 2 LAY				11	✓
G-3, G-3R OPP. HAND	2#7	2#7		2#7					11	✓
G-4, G-4R OPP. HAND	2#7	2#7		2#7					5	✓
G-5, G-6 OPP. HAND	2#7	2#7	4#9		4#9				5	✓
G-7	2#7	2#7	6#9 2 LAY		8#9 2 LAY				5	✓
G-8, G-9 OPP. HAND	2#8	2#8	8#10 2 LAY		8#10 2 LAY		22		11	✓
G-10, G-10R OPP. HAND	2#7	8#9 2 LAY		2#7			22		11	✓
G-11, G-11R OPP. HAND	2#7	8#9 2 LAY		2#7		17	13		11	✓
G-12, G-12R OPP. HAND	2#7	4#8		2#7					11	✓
G-13	2#7	3#7		2#7					9	✓
G-14, G-15 OPP. HAND	2#7	2#7	6#9 2 LAY		4#9				13	✓

STIR. TYP. FOR P-T GIRDERS

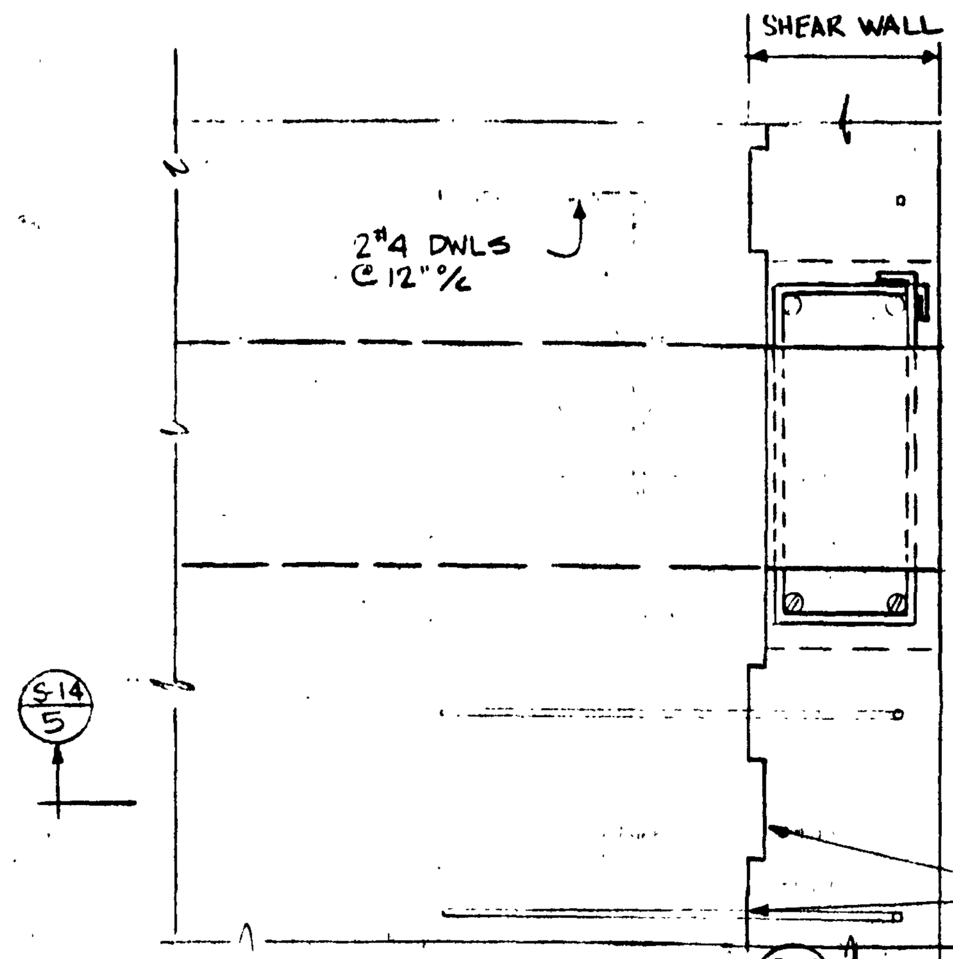
JOB NO. 1313-7.4

DATE: 6-27-74



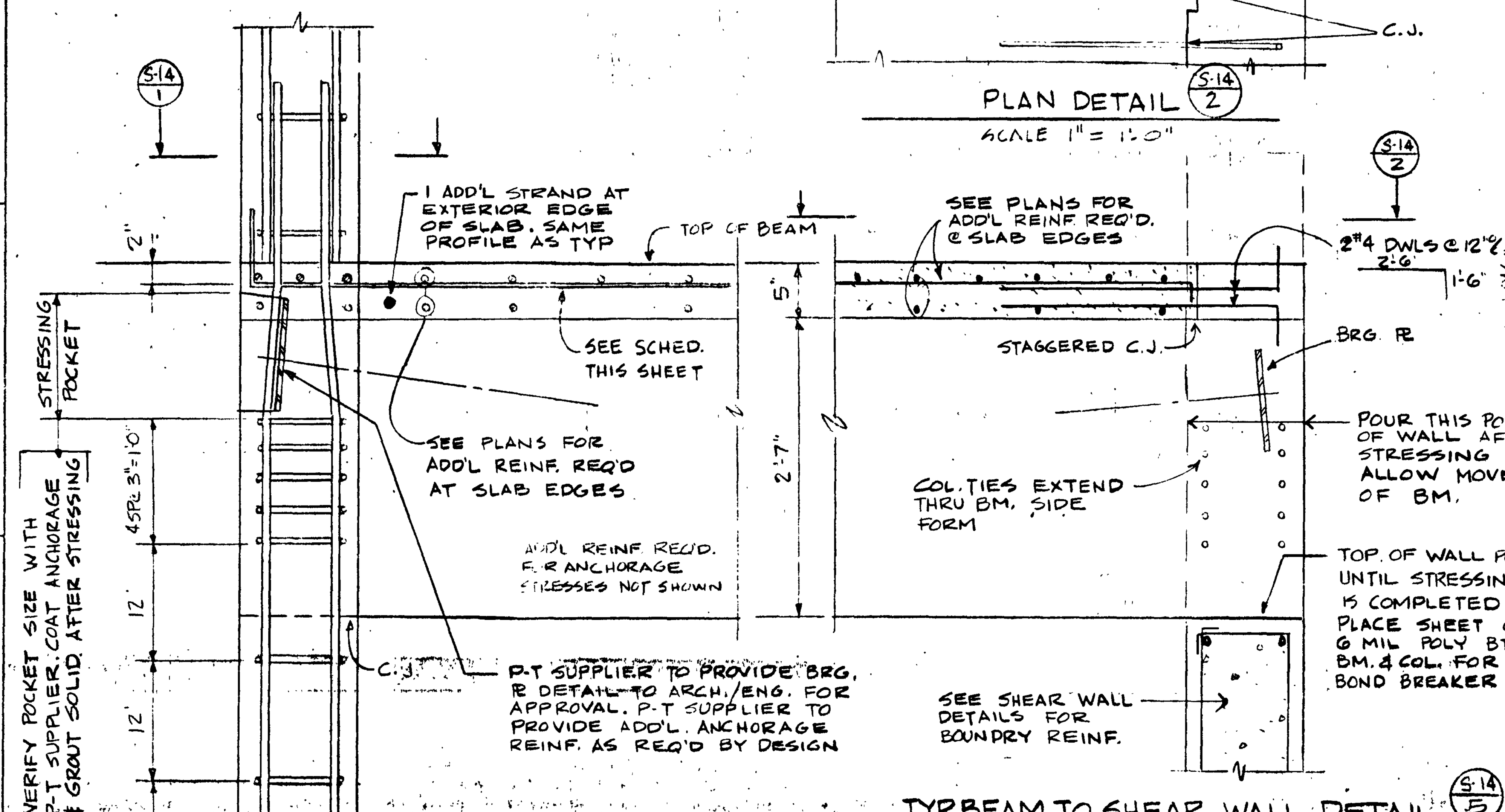
COLUMN PLAN DETAIL (S-14/1)

1" = 1'-0"



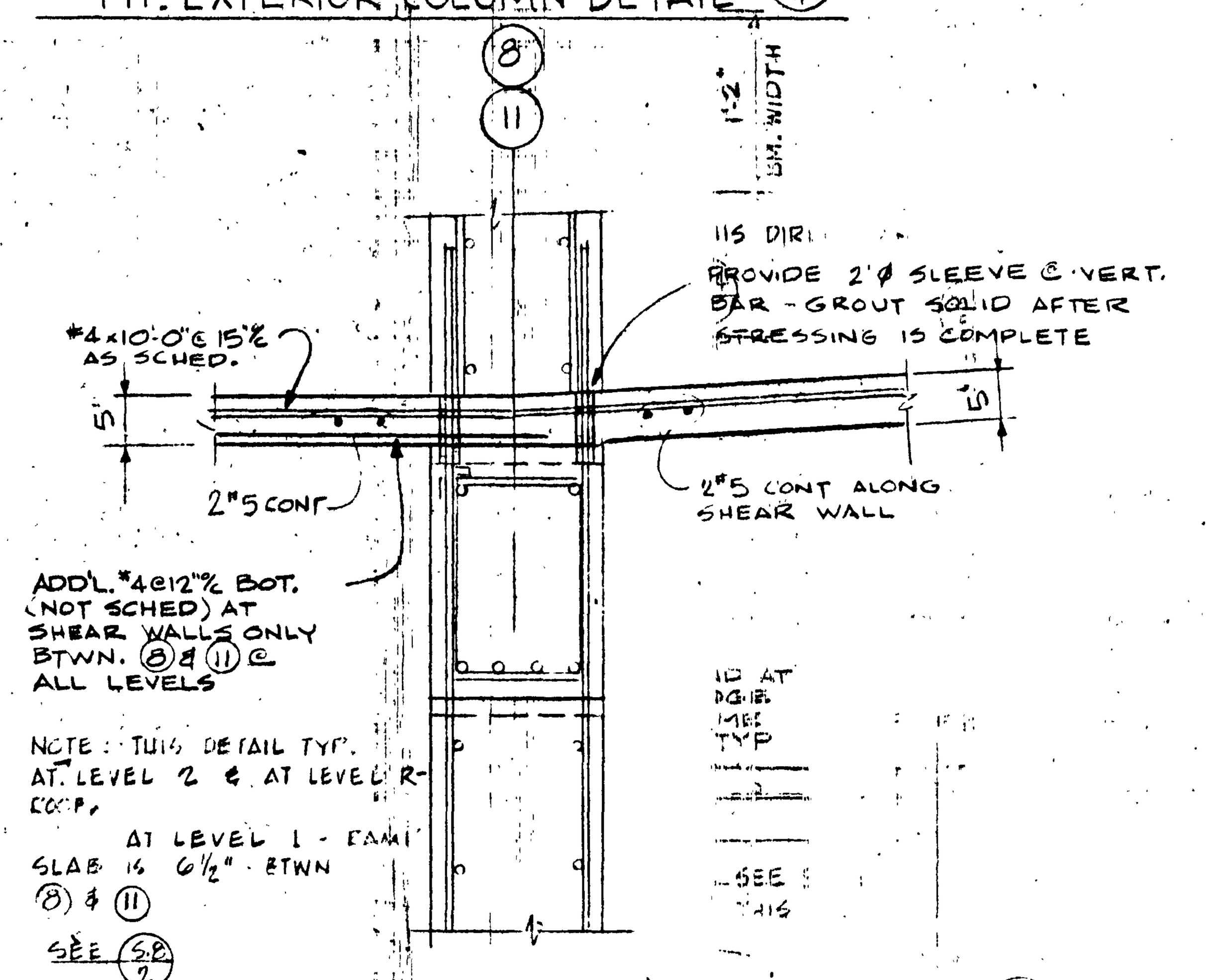
PLAN DETAIL (S-14/2)

SCALE 1" = 1'-0"



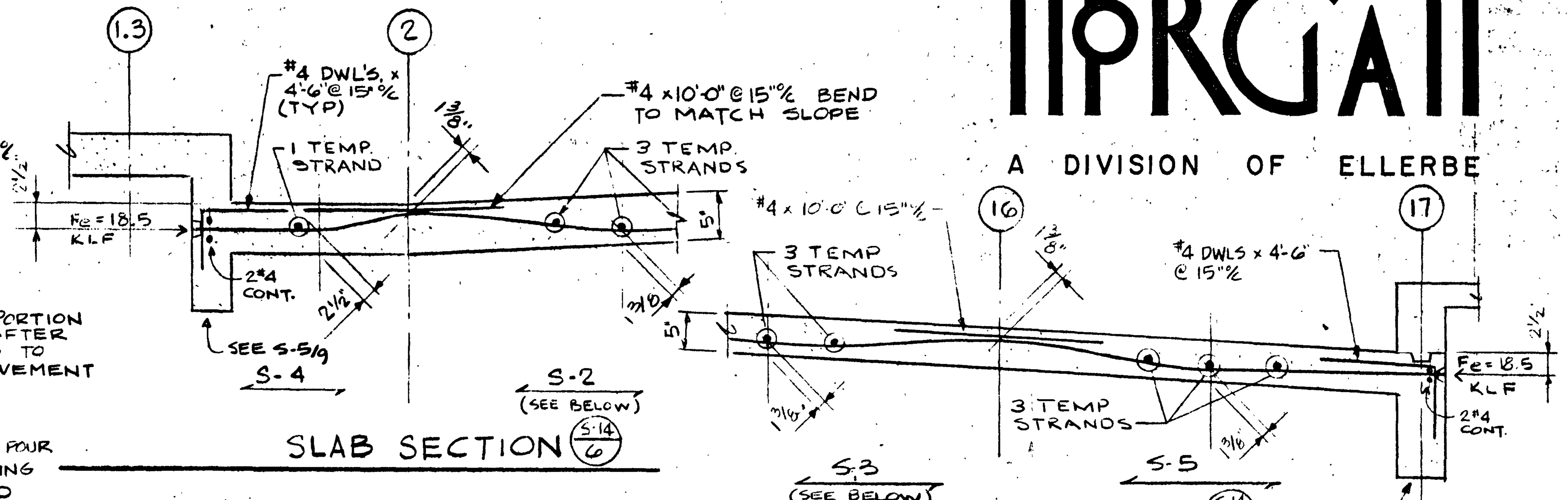
TYP. EXTERIOR COLUMN DETAIL (S-14/4)

TYP. BEAM TO SHEAR WALL DETAIL (S-14/5)



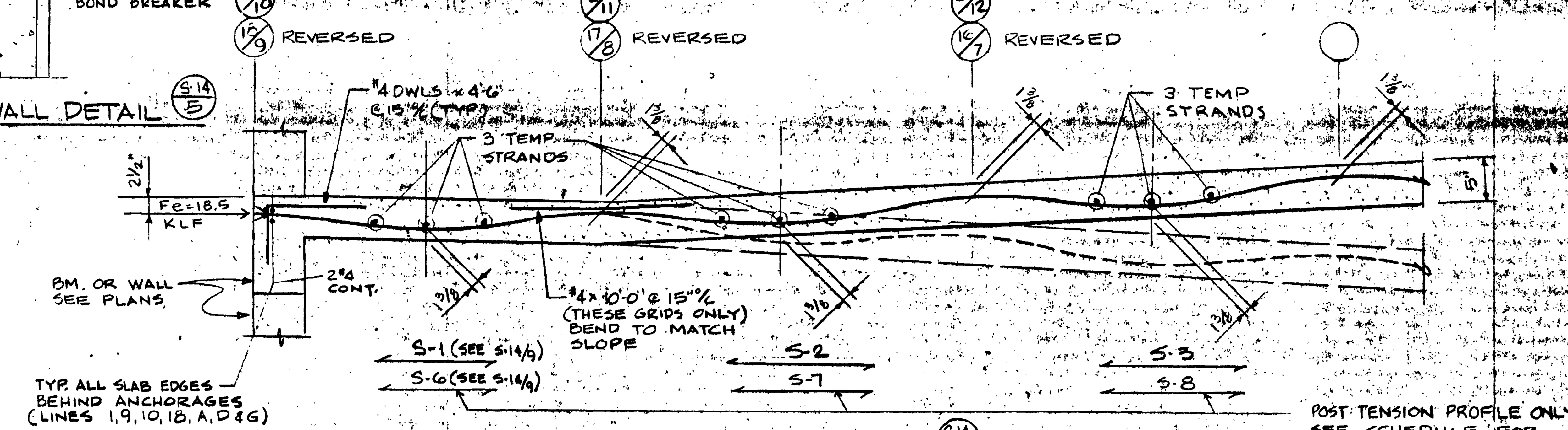
SLAB DETAIL SHEAR WALLS 6 & 7 (S-14/3)

SCALE 3/4" = 1'-0"



SLAB SECTION (S-14/6)

SLAB SECTION (S-14/7)



POST TENSION PROFILE ONLY SEE SCHEDULE FOR ADD'L. REINF.

SLAB SECTION (S-14/8)

NOTE:
ALL POST-TENSIONED SLABS TO BE 5" THK.

ROOF SLAB SCHEDULE	
ADD'L CONC. REINFORCING	
S-6	#5×10'-0" @ 15"%; #4×4'-6" @ 15"% IK; #4×10'-0" @ 15"%; #4 @ 15"% BOT.
S-7	#5×10'-0" @ 15"%; #4 @ 15"% BOT
S-8	#5×10'-0" @ 15"%; #4 @ 15"% BOT.
S-8A	#5×10'-0" @ 9"%; #5 @ 12"% BOT.

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POST-TENSION DETAILS

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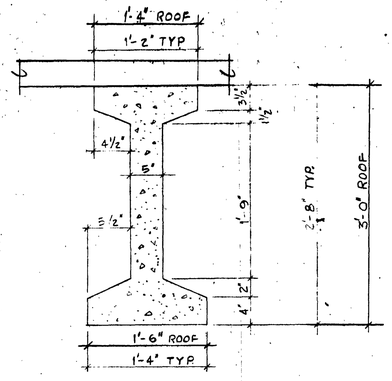
FAIRBANKS, AK.

THIS SHEET NOT REVISED
P.T. DETAILS NOT USED
AT CONTRACTOR'S OPTION.

S-14

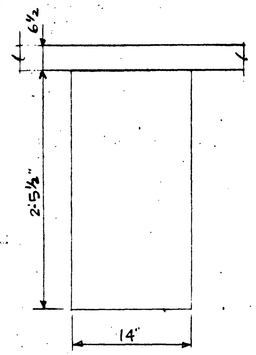
SHEET 34 OF 49

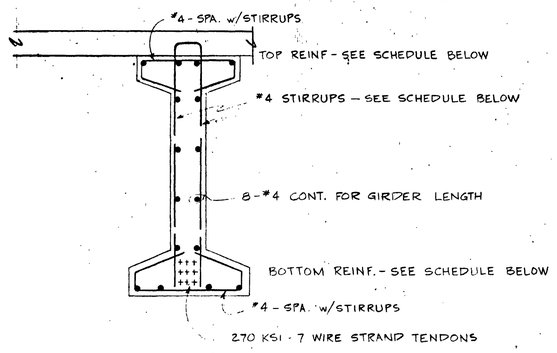


PRECAST CONC. GIRDER SECTION

F'C = 6000 PSI @ 28 DAY

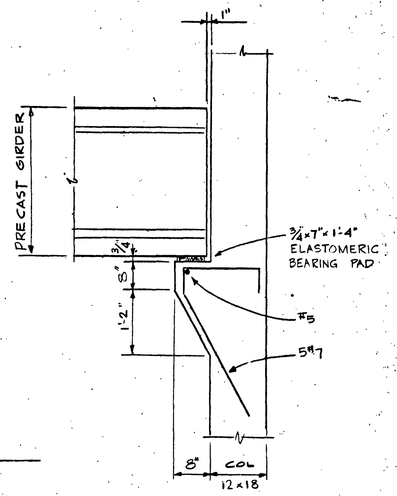
SCALE: NONE





TYP. REINF. FOR PRECAST GIRDER

SCALE: NONE



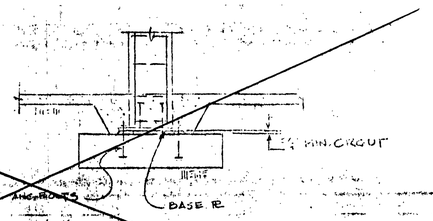
DETAIL (S-15 / 2)

GRAY ROGERS MYERS & MORGAN

A DIVISION OF ELLERBE

ACCEPTABLE CONTRACTORS OPTION PRECAST GIRDERS

PRECAST COLUMNS (CONTRACTORS OPTION)				
A-2, 6 THRU 13, 17 D-1 - 3, 9, 15, 16 D-2 - 3, 4, 15, 16 G-2, 6, 7, 12, 13, 17	D-2	2-9 2-10	G-5 G-9 G-10 G-11	
~~12x18~~	~~16"x25~~	~~14x18~~	~~12x18~~	
~~GRID~~	~~4#10~~	~~6#9~~	~~6"#9~~	Ⓡ
~~12x18~~	~~16"x25~~	~~14"x18~~	~~12"x18~~	
~~GRID~~	~~4#10~~	~~6#9~~	~~6"#9~~	
12x18	16"x25	14"x18	12"x18	
GRID	4#10	6#9	6"#9	
12x18	16"x25	14"x18	12"x18	
GRID	4#10	6#10	6"#10	
		14"x18	12"x18	
		6"#10	6"#10	



TYP. FOOTING DETAIL (S-15 / 1)

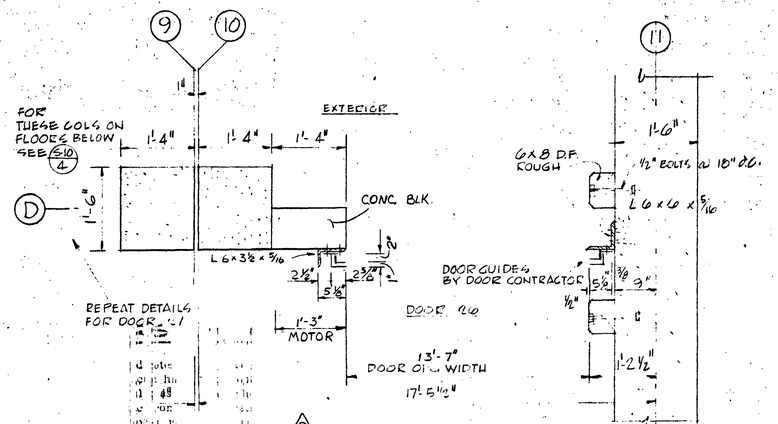
PRECAST COLUMN (CONTRACTORS OPTION)

NOTE: PT. COL. DETAILS NOT USED AT CONTRACTORS OPTION

Sheet 15 indicates the Contractor's Option for furnishing a precast concrete girder in lieu of the post-tensioned beam shown on Sheets S-1 thru S-14. The Contractor has also the option of furnishing a conventionally reinforced 6-1/2" concrete slab as detailed on Sheet S-15 in lieu of the 5" post-tensioned slab as shown on Sheets S-1 thru S-14. The Contractor has the option of furnishing precast columns as detailed on Sheet S-15 in lieu of the cast-in-place concrete concrete column shown on Sheets S-1 thru S-14. The quantities of prestressing force and/or materials along with the quantities of conventional reinforcing materials shown for the precast girder are only one solution to sustain the gravity floor loads as indicated on the plans and meet the indicated Code requirements. The Engineer is aware that there may be other combinations of prestressing - post-tensioning materials along with conventional reinforcing that will adequately sustain the gravity floor loads and still meet indicated Code requirements. The Contractor has the option to submit alternate designs for the precast girder utilizing combinations of prestressing, post-tensioning, and conventional reinforcing materials. Precast girder sizes shall conform to the acceptable shapes shown on this sheet. Contractor shall also refer to Precast Option Note on Sheet S-1. The proposed alternate design for the precast girder shall be submitted to the Engineer for approval prior to commencement of any work. The submitted alternate design shall clearly indicate the amounts of prestress, post-tension, and conventional reinforcing materials, and all pertinent details. The submitted alternate precast design shall be accompanied by structural calculations done under the supervision of a registered professional engineer experienced in prestress - post-tension concrete design. These submitted calculations shall clearly indicate the prestress -post-tension force, conventional reinforcement, working stresses, shear calculations, ultimate moment capacity, and all other pertinent calculations required to satisfy the ACI ~~318-71 Code and the Uniform~~ Building Code.

PRECAST CONCRETE GIRDER SCHEDULE				STIRRUPS			
GIRDER	P.T. FORCE	TOP BARS	BOT. BARS	4"	8"	12"	16"
G1, G2, G3, G3R	353 KIPS	4-#6	4-#9	12	6	8	✓
G4, G4R	353 K	4-#6	4-#9	12	6	8	✓
G5, G6	353 K	4-#6	4-#9	12	6	8	✓
G7	353 K	4-#6	4-#9	12	6	8	✓
G8, G9, G10, G10R	353 K	4-#9	8-#9	36	6	8	✓
G11, G11R, G12, G12R	353 K	4-#9	8-#9	36	6	8	✓
G13, G14, G15	353 K	4-#9	8-#9	36	6	8	✓

NOTE: PRECAST CONC. GIRDER SHALL BE SHORED FOR CAST-IN-PLACE CONC. SLAB. CONTRACTOR SHALL HAVE OPTION OF SUBMITTING ALTERNATE PRE-CAST CONCRETE GIRDER SCHEMES TO ENGINEER FOR APPROVAL. ALL ALTERNATE PROPOSALS SHALL BE SUBMITTED WITH ENGINEERING CALCULATIONS PERTAINING TO MEMBER SIZES, REINFORCING STEEL AND PRESTRESSING STRANDS. CONTRACTOR SHALL ALSO HAVE THE OPTION OF SUBMITTING A PARTIAL PRESTRESSING, PARTIAL POST-TENSIONING SCHEME.



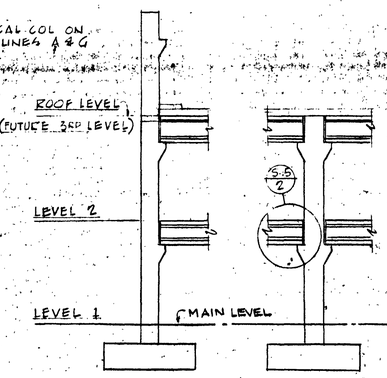
Ⓡ

PLAN - ROLLING DOORS 26 & 27 (S-15 / 5)

3/4" = 1'-0"

THIS DETAIL MAKES ROLLING DOOR DIM. 2" LESS

REFER TO ARCH. (12 / A14)



TYP. COL. DET. (S-15 / 3) COL. D-2 & D-17 (S-15 / 4)

CONVENTIONALLY REINFORCED 6½" CONC SLAB SCHEDULE (CONTRACTORS OPTION)	
SLAB NO.	SECTION
S-1	#4@12 #5@12 #5@10
S-1R	#5@12 #4@12
S-2	#5@12 #5@10
S-2R	#5@12 #5@10
S-3	#5@12 #5@10
S-4	#4@12 #4@12
S-5	#5@12 #4@12
S-6	#4@12 #5@12 #5@6
S-6R	#4@12 #5@12 #5@6
S-7	#5@12 #5@6
S-7R	#5@12 #5@6
S-8	#5@12 #5@6
S-9	#4@12 #4@12
S-10	#5@12 #5@6

NOTES

1. USE TYP. BEAM DIAGRAM SHEET S-10 FOR BAR LENGTH REQ'D. FOR SLABS
2. TEMP. STEEL TO BE #4@12"%

JOB NO.:

DATE: 6-25-71

PRECAST GIRDERS AND CONVENTIONAL REINFORCED SLAB DETAILS

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DEPT. OF PUBLIC WORKS
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JUNEAU ALASKA

FAIRBANKS PARKING STRUCTURE

DBA - 2 - 0130

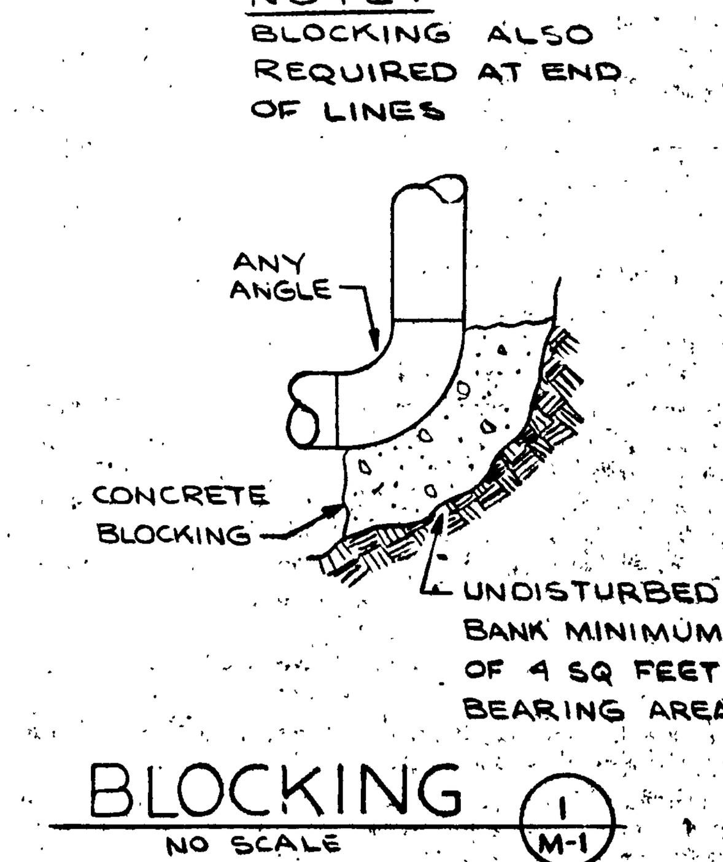
FAIRBANKS, AK.

STATE OF ALASKA 49TH No. 494-E REGISTERED PROFESSIONAL ENGINEER

AS-BLT

S-15

OF 49



GRAY ROGERS MYERS & MORGAN
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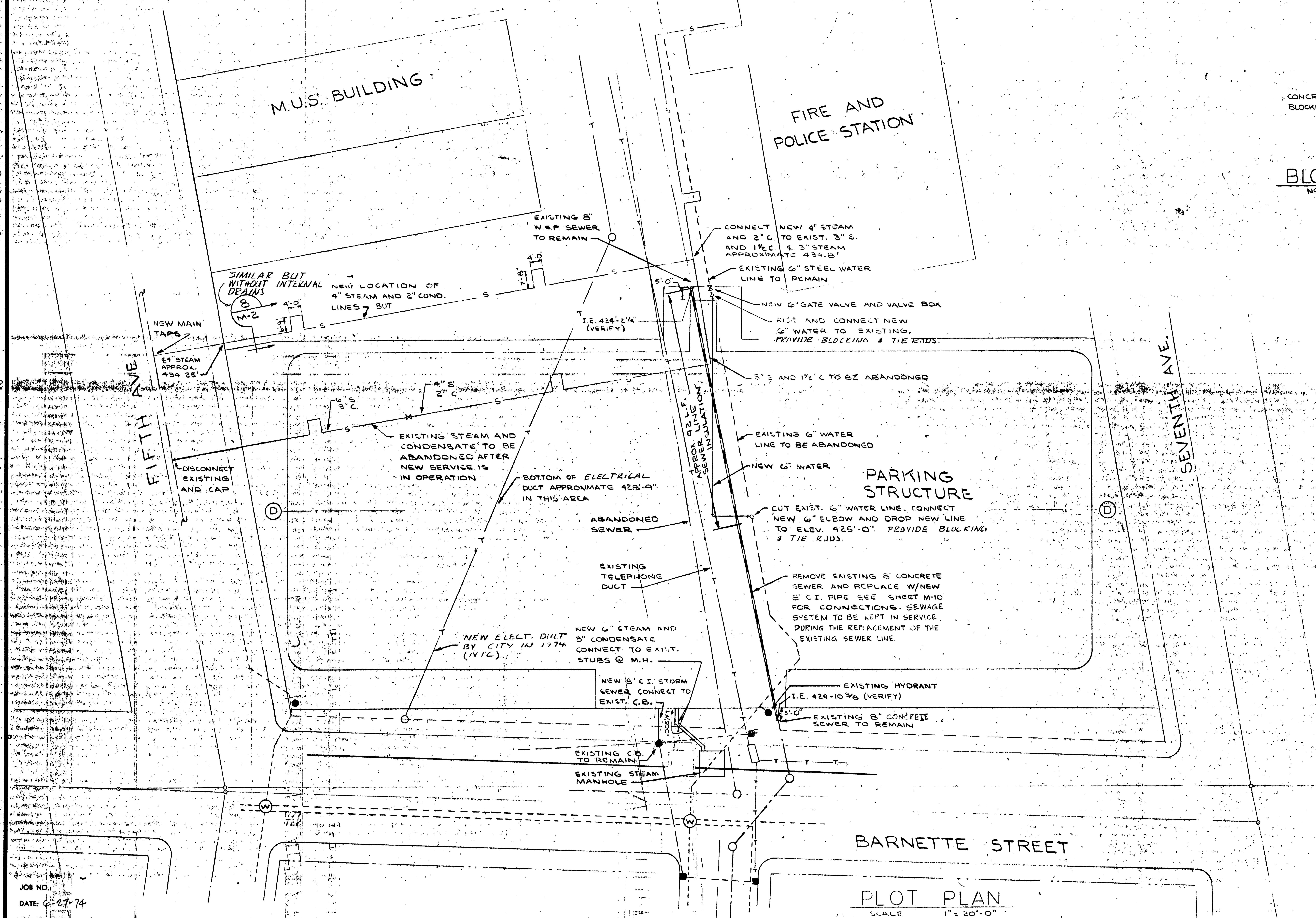
MECHANICAL SYMBOLS & ABBREVIATIONS



JOB NO.
DATE: 6-07-74

PLOT PLAN

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STATE OF ALASKA
DEPT. OF PUBLIC WORKS
DIVISION OF BUILDINGS
JUNEAU ALASKA

FAIRBANKS PARKING STRUCTURE

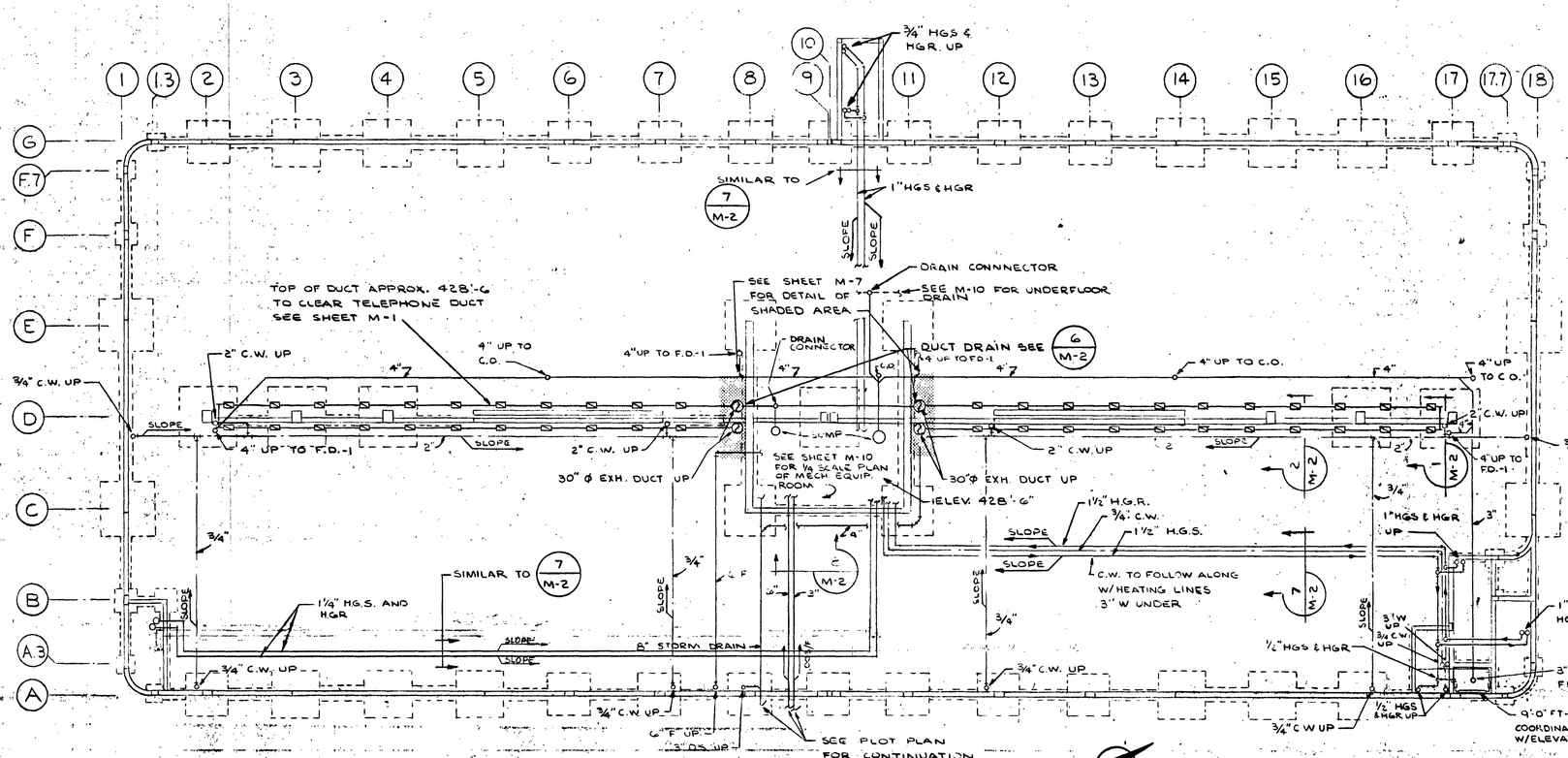
DBA-2-0130

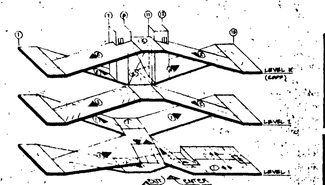
FAIRBANKS, AK.

PETER KIEWIT SONS' CO.
AS-BLT
DATE

M-1

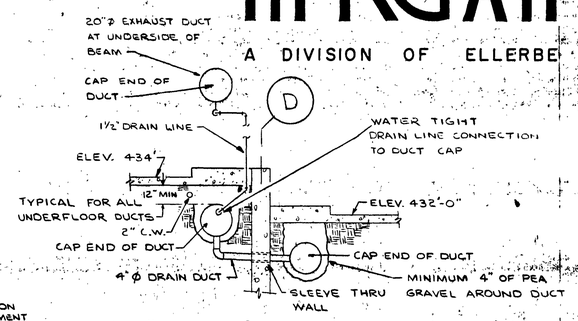
SHEET 36 OF 49





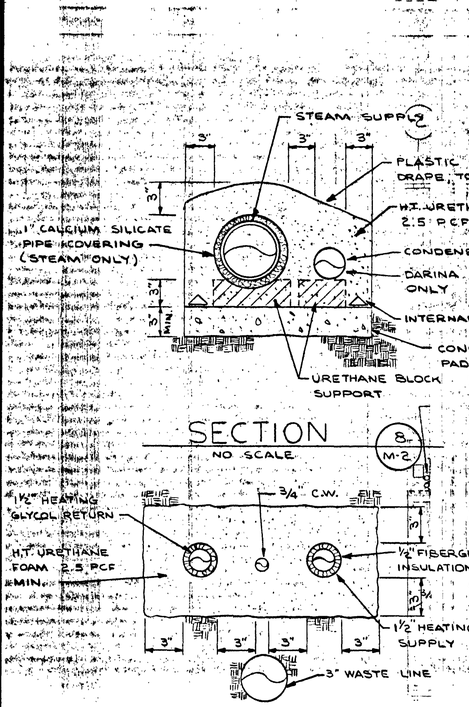
KEY PLAN
NO SCALE

GRAY ROGERS MYERS & MORGAN
A DIVISION OF ELLERBE



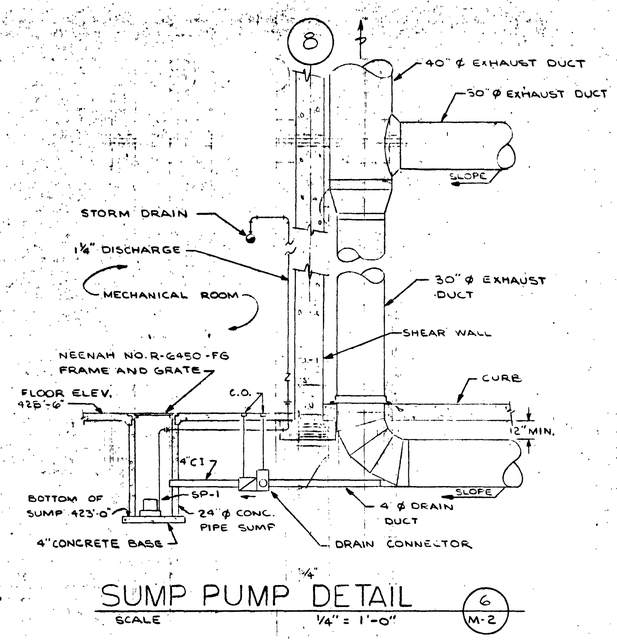
FOUNDATION PLAN
SCALE 1/16" = 1'-0"

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

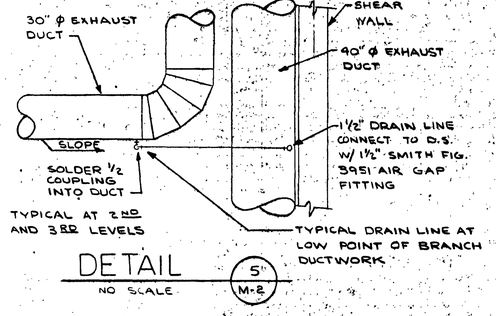


SECTION 8/M-2
NO SCALE

SECTION 7/M-2
NO SCALE



SUMP PUMP DETAIL 6/M-2
SCALE 1/4" = 1'-0"



DETAIL 5/M-2
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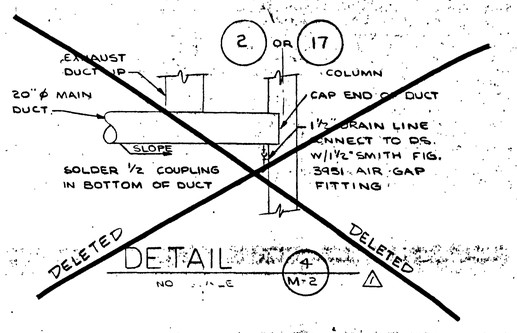
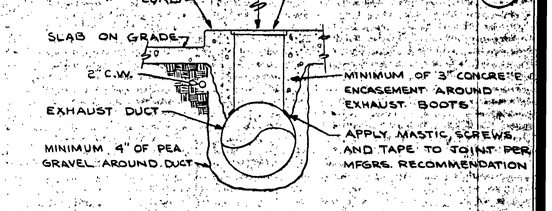
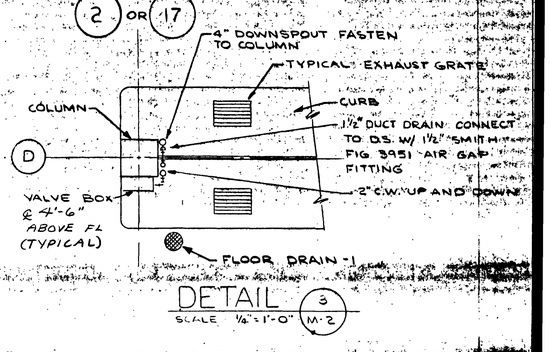


DETAIL 4/M-2 △
NO SCALE



SECTION AT EXHAUST BOOT 2/M-2
SCALE 1/2" = 1'-0"



DETAIL 3/M-2
SCALE 1/2" = 1'-0"

FOUNDATION PLAN AND DETAILS

JOB NO.
DATE: 6-27-74

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DEPT. OF PUBLIC WORKS
DIVISION OF BUILDINGS
JUNEAU ALASKA

STATE OF ALASKA 49TH NO. 1722-E REGISTERED PROFESSIONAL ENGINEER

FAIRBANKS PARKING STRUCTURE

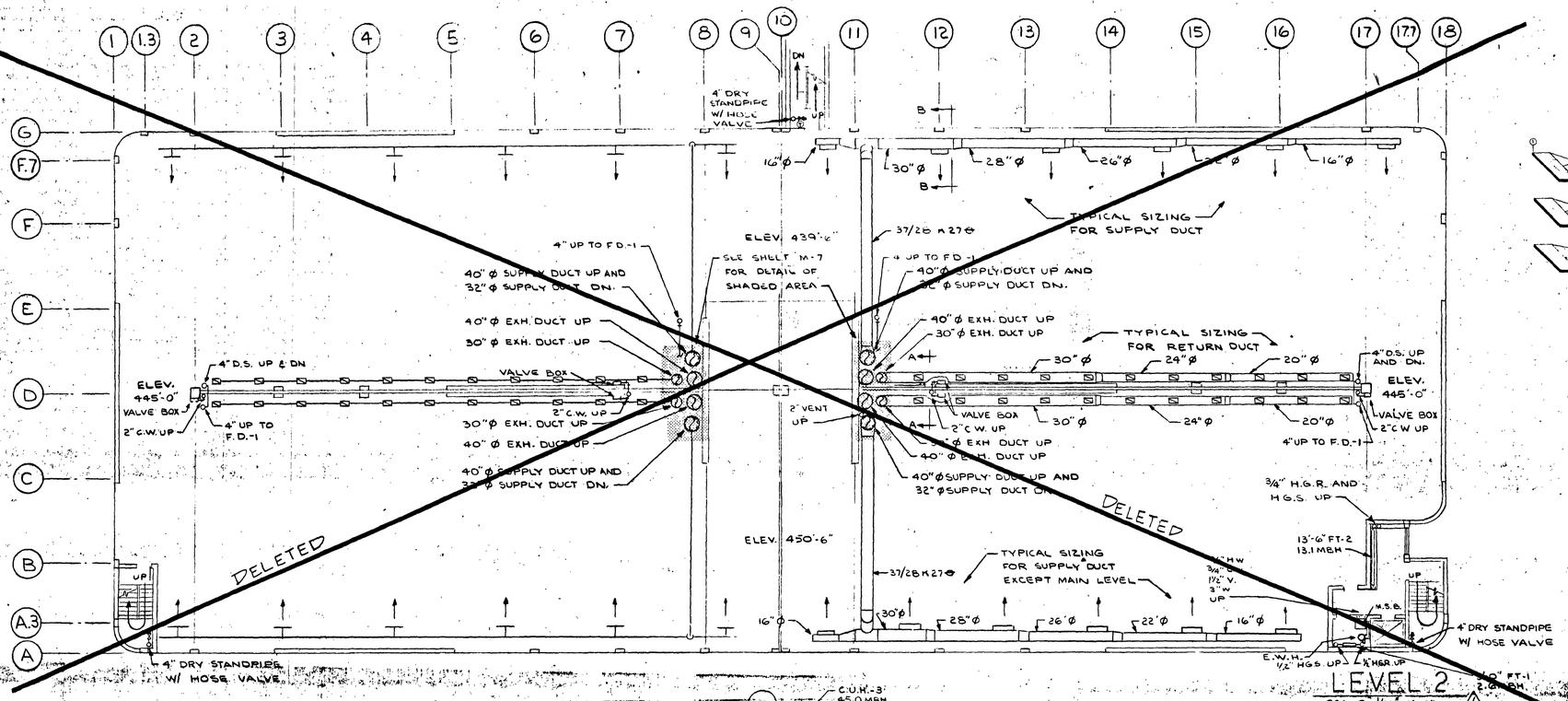
DBA - 2 - 0130

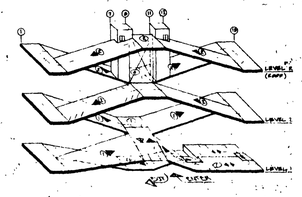
FAIRBANKS, AK.

PETER KIEWIT SONS' CO.
FAIRBANKS ALASKA
CONTRACTOR
DATE
OWNERS REP.
AS-BLT

M-2

SHEET 37 OF 149

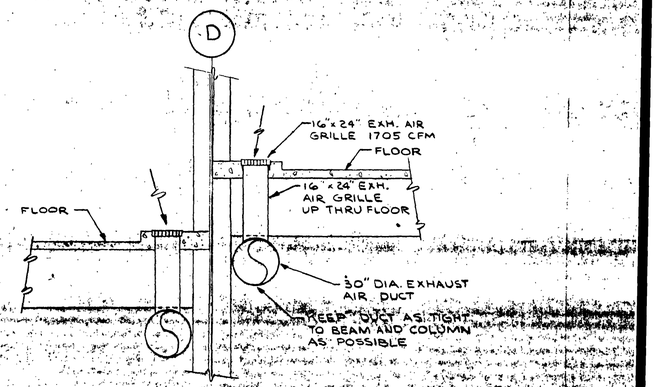




KEY PLAN
NO SCALE

GRAY ROGERS MYERS & MORGAN

A DIVISION OF ELLERBE



SECTION A-A
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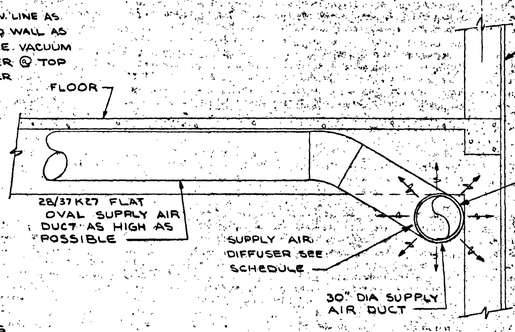
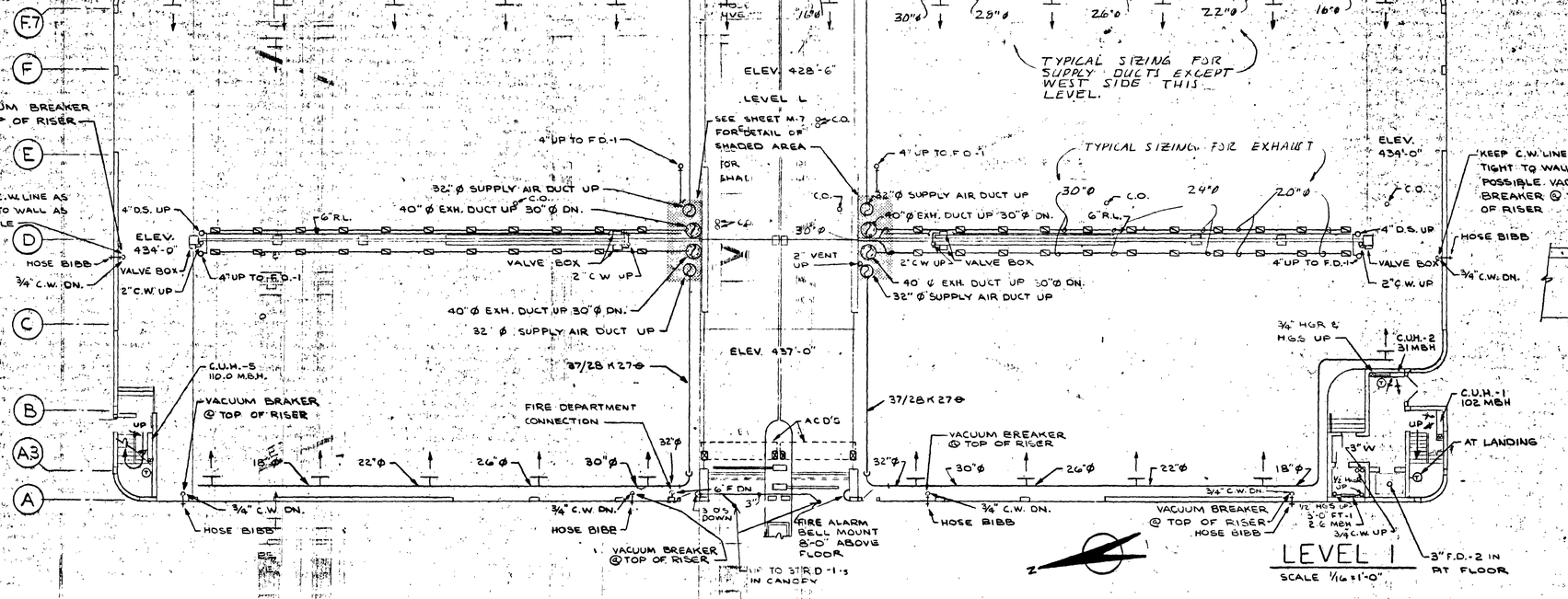


SECTION B-B
NO SCALE

DIFFUSER SCHEDULE

DUCT SIZE	DIFFUSER LEN
32"ø	16"
30"ø	17"
28"ø	18"
26"ø	19"
24"ø	21"
22"ø	23"
18"ø	28"
16"ø	31"



LEVEL 1 PLAN, AND DETAILS

ARCHITECTS ▪ ENGINEERS ▪ SURVEYORS
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STATE OF ALASKA
DEPT. OF PUBLIC WORKS
DIVISION OF BUILDINGS
JUNEAU ALASKA

FAIRBANKS PARKING STRUCTURE

DBA-2-0130

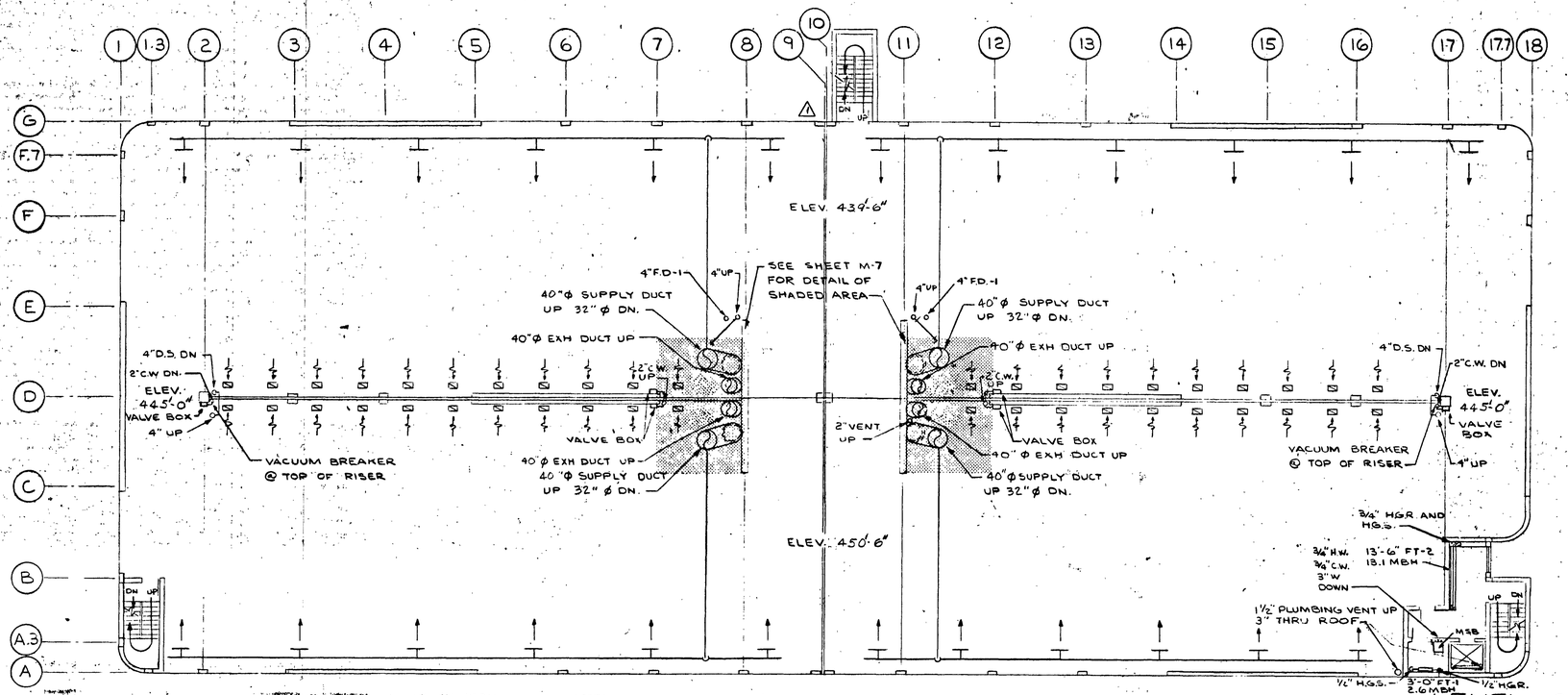
FAIRBANKS, AK.

PETER YIEWIT SONS' CO.
FAIRBANKS, ALASKA
CONSTRUCTED: APPROVED:
DATE: AS-BLT

M-3

SHEET 38 OF

JOB NO.
DATE:



LEVEL 2

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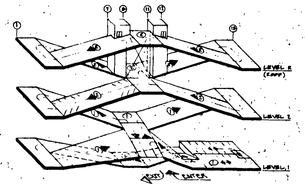

KEY PLAN

NO SCALE

GRAY ROGERS MYERS & MORGAN

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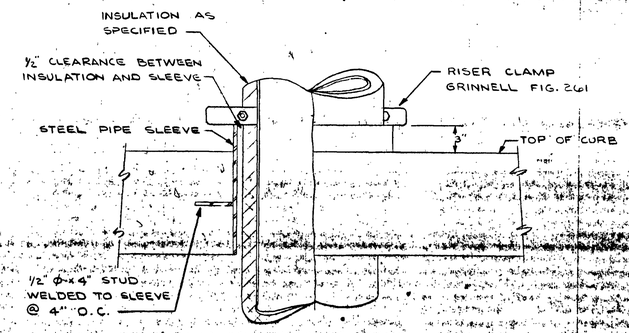
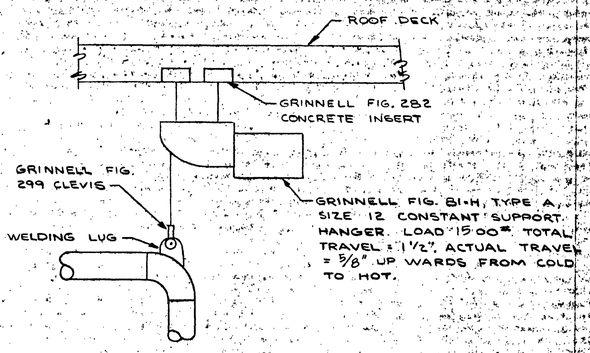


RISER SLEEVE AND SUPPORT

NO SCALE

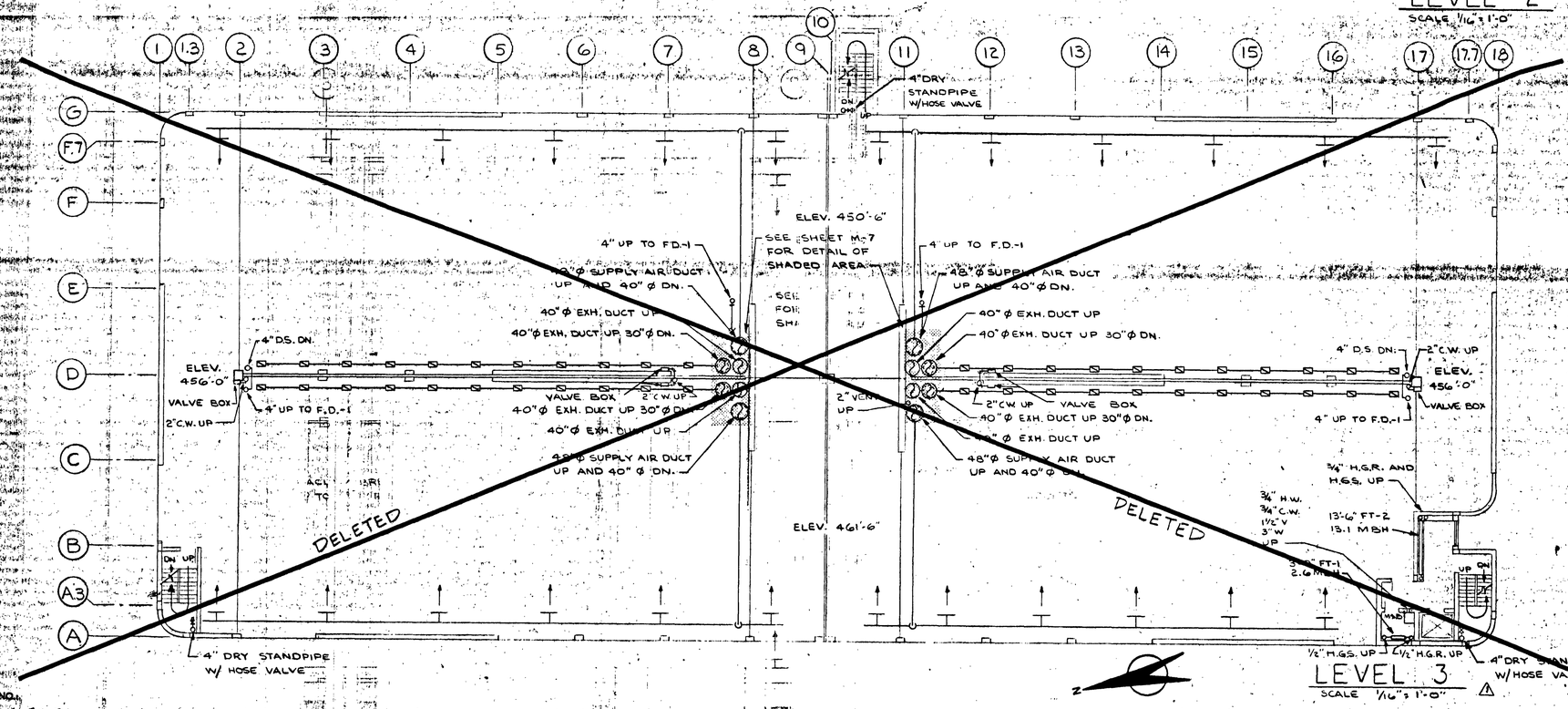
M-4



STEAM LINE SUPPORT

NO SCALE

2 M-4



LEVEL 3

SCALE 1/16" = 1'-0"

JOB NO.

DATE 12-27-74

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STATE OF ALASKA
DEPT. OF PUBLIC WORKS
DIVISION OF BUILDINGS
JUNEAU ALASKA

FAIRBANKS PARKING STRUCTURE

DBA-2-0130

FAIRBANKS, AK.

PETER KIEWIT SONS' CO.

FAIRBANKS ALASKA

CONTRACTOR

OWNER'S REP.

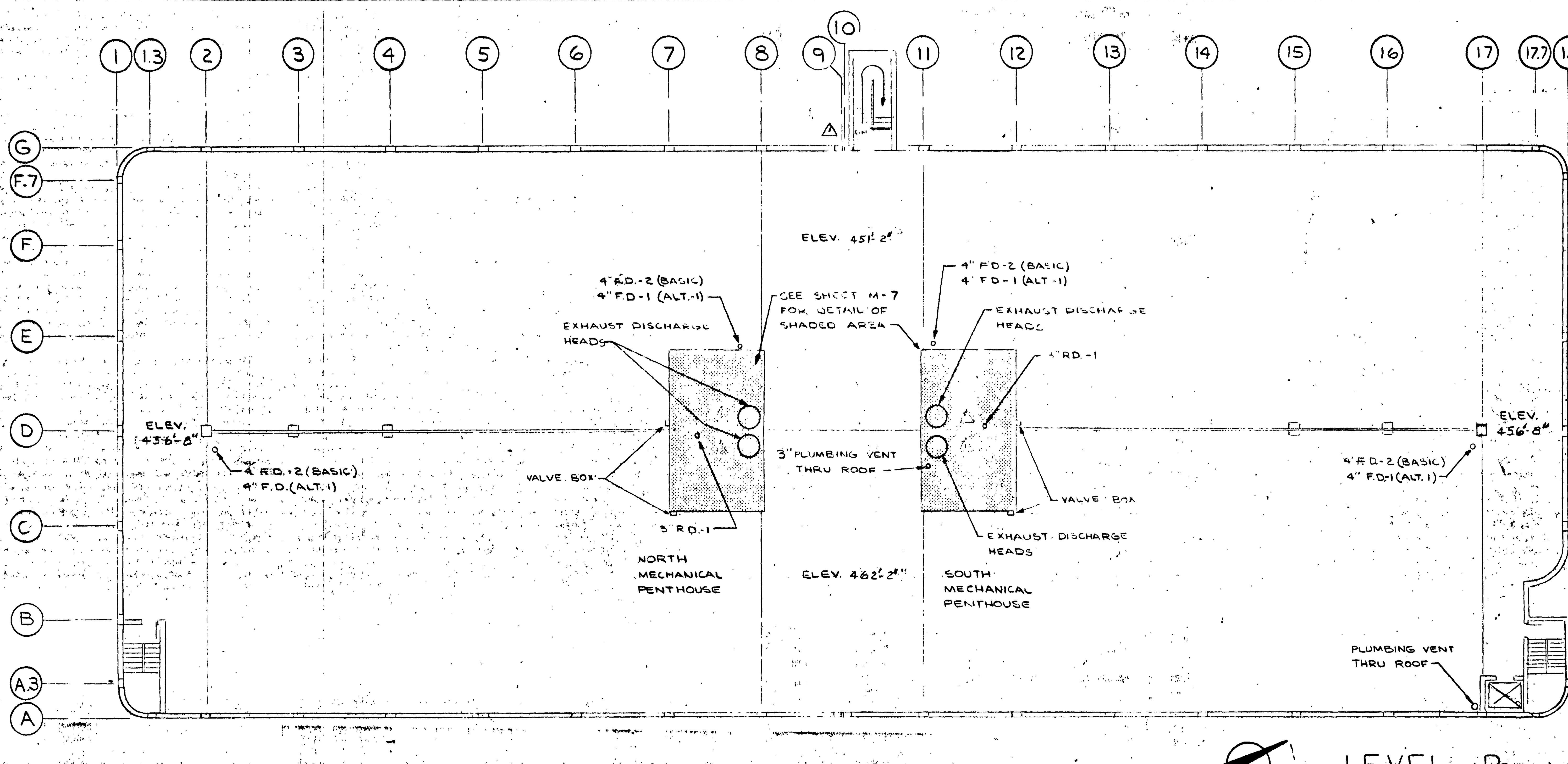
AS-BLT

DATE

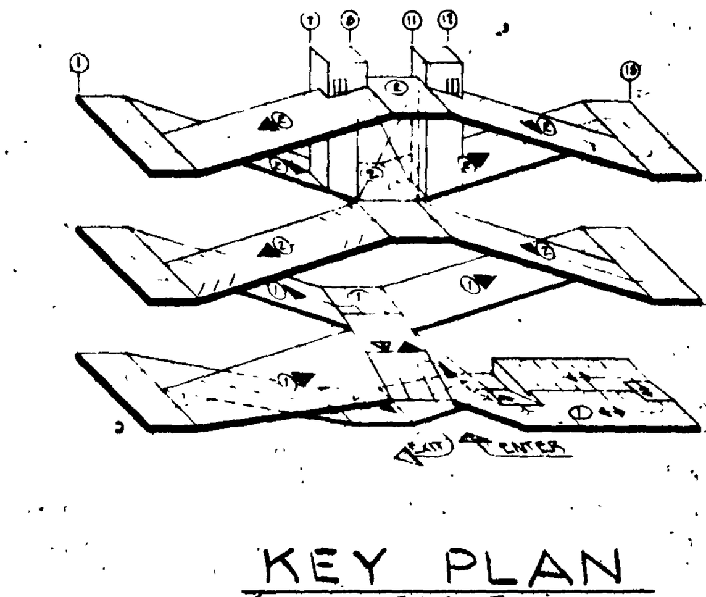
LEVEL 2 PLAN, AND DETAILS

M-4

SHEET 39 OF 4

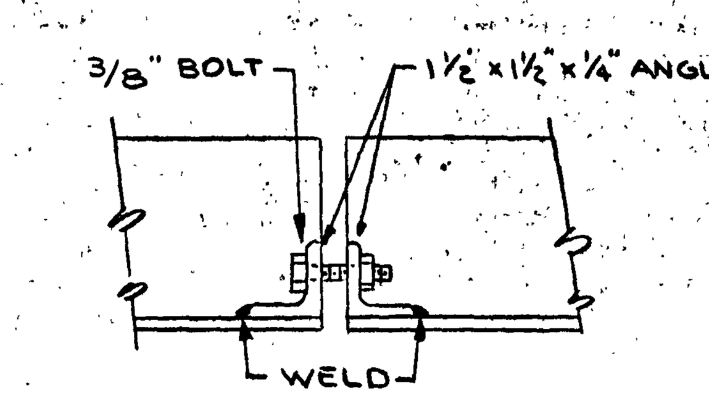


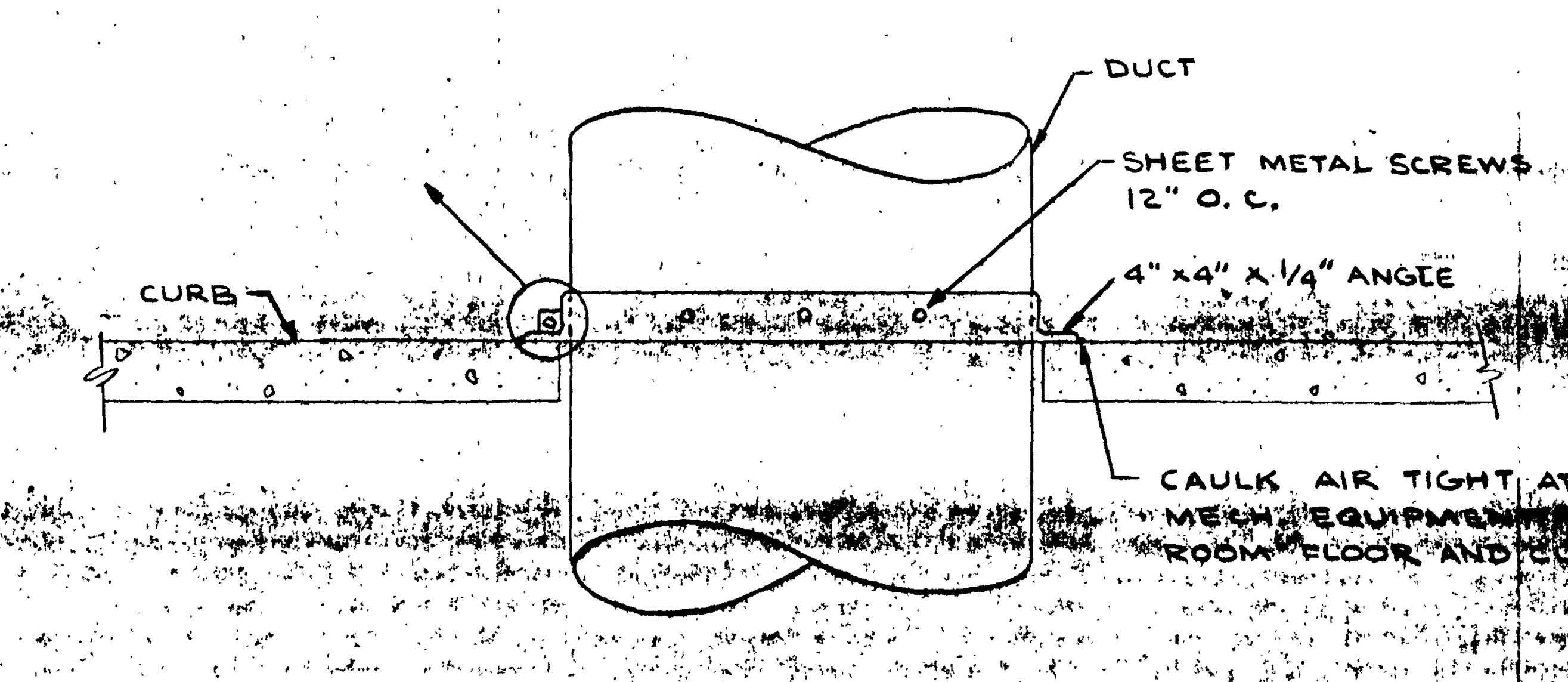
LEVEL R
SCALE 1/16" = 1'-0"



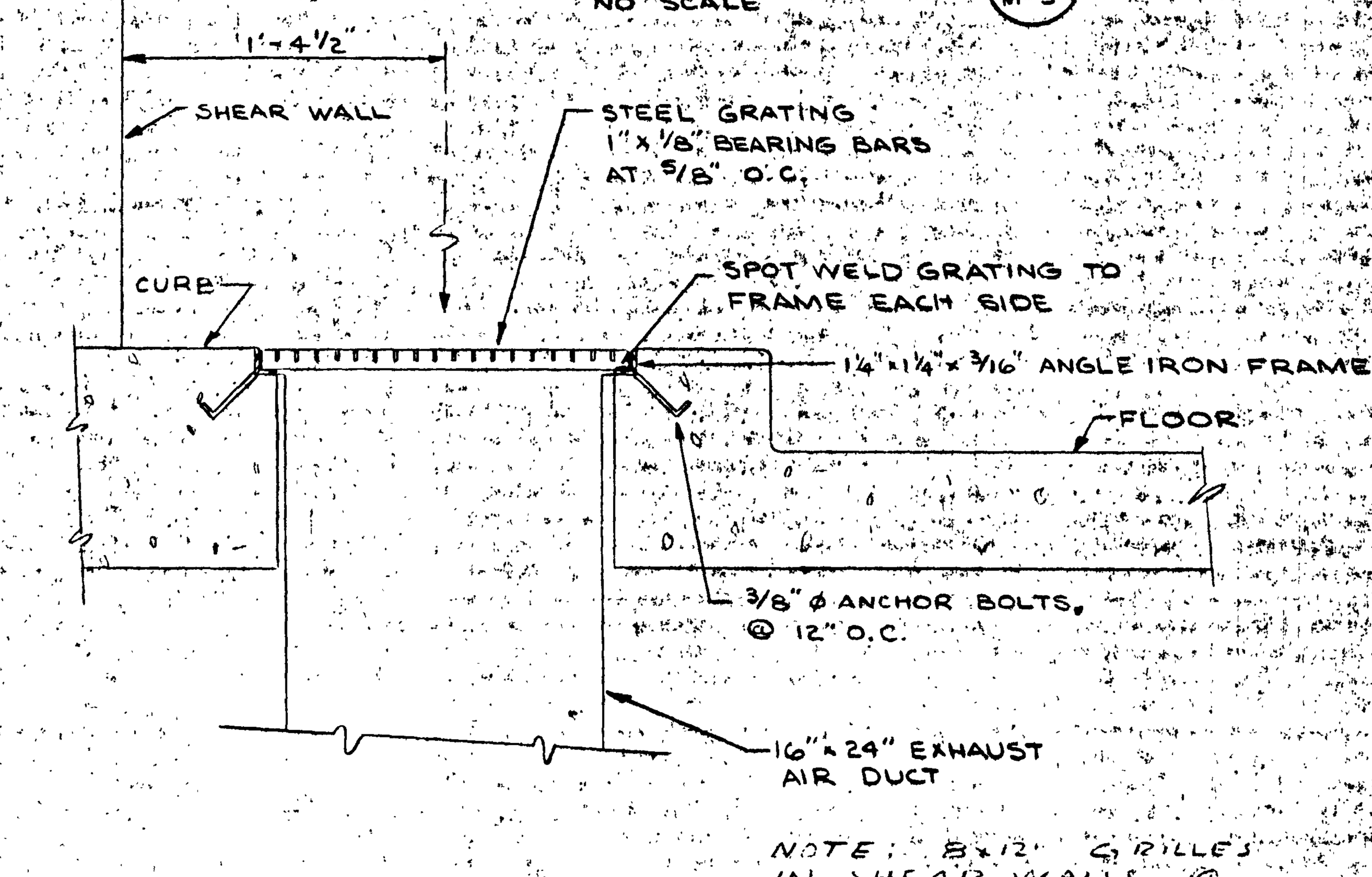
KEY PLAN
NO SCALE

GRAY ROGERS MYERS & MORGAN
A DIVISION OF ELLERBE

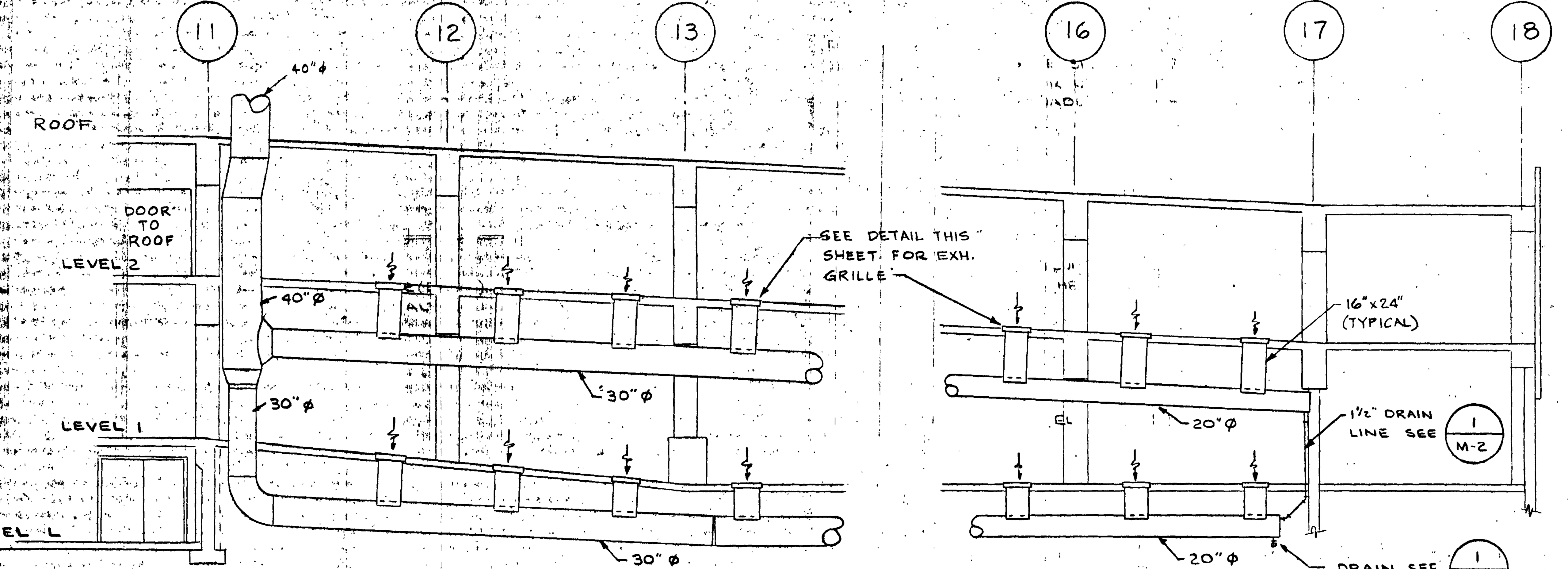




DETAIL (2 / M-5)
NO SCALE



DETAIL (1 / M-5)
SCALE 1 1/2" = 1'-0"



ELEVATION (3 / M-5)
NO SCALE

JOB NO.
DATE: 6-27-74

LEVEL R PLAN, AND DETAILS

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STATE OF ALASKA
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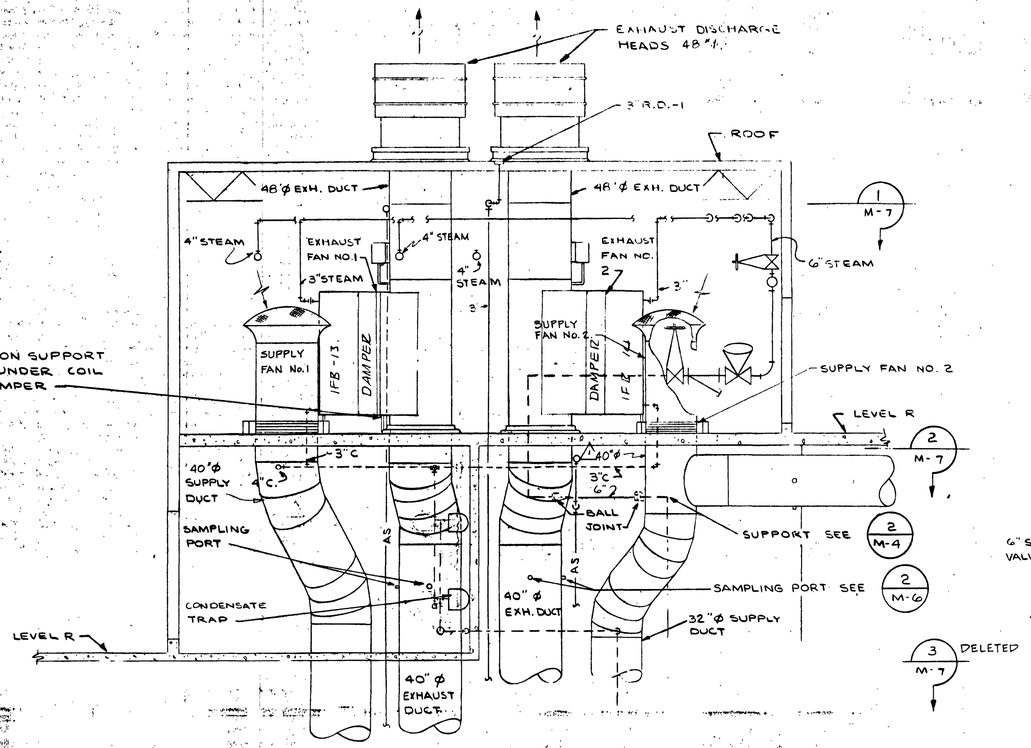
DIVISION OF BUILDINGS
JUNEAU ALASKA

FAIRBANKS PARKING STRUCTURE
DBA-2-0130
FAIRBANKS, AK.

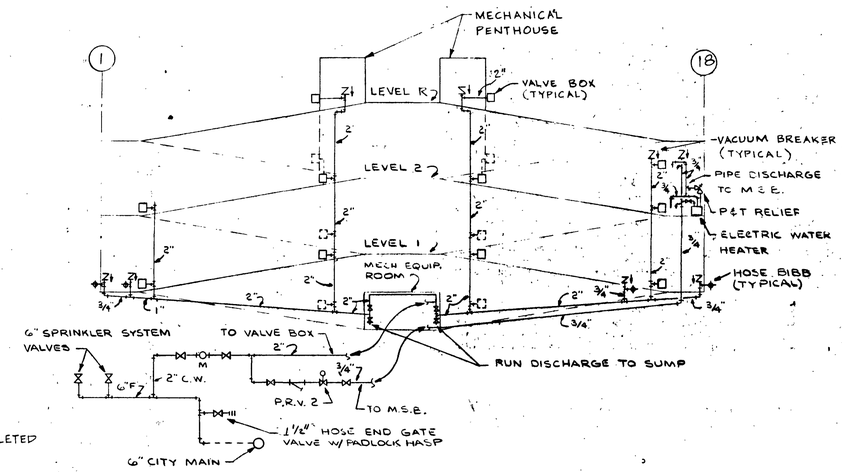
PETER KIEWIT SONS' CO.
FAIRBANKS ALASKA
RECOMMENDED: APPROVED:
DATE:
AS-BLT

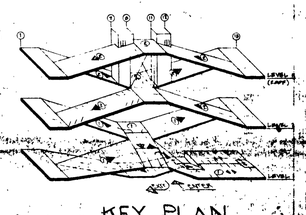
M-5
SHEET 40 OF 49



WATER RISER DIAGRAM 3 M-6

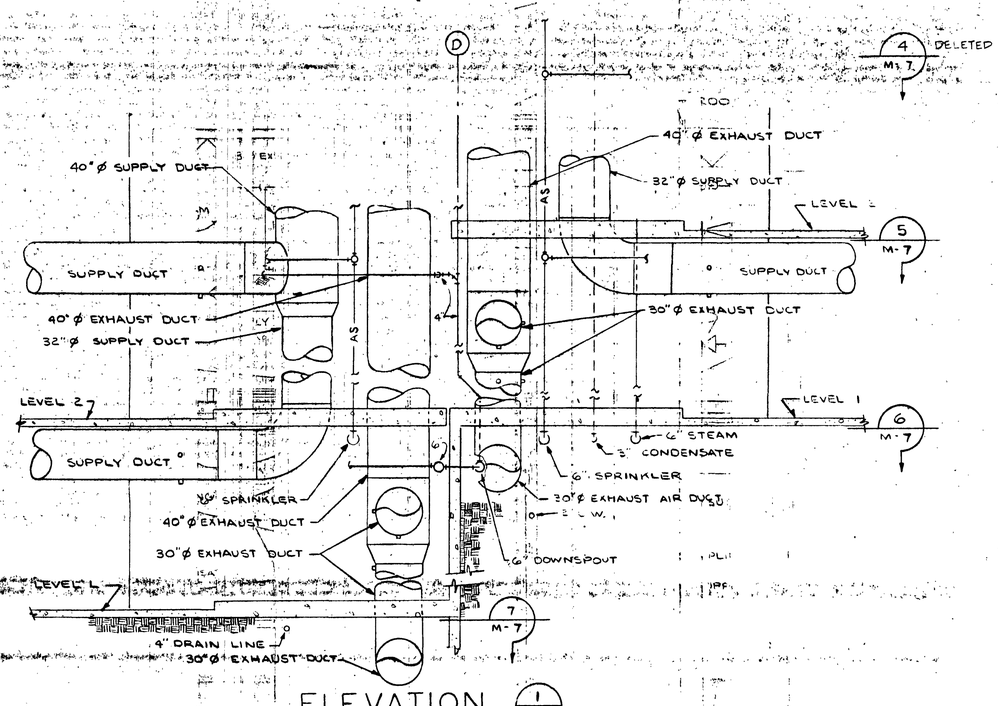
NO SCALE





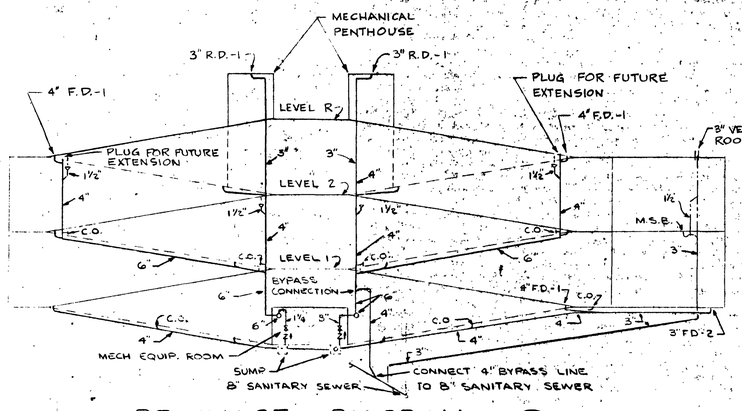
KEY PLAN

NO SCALE



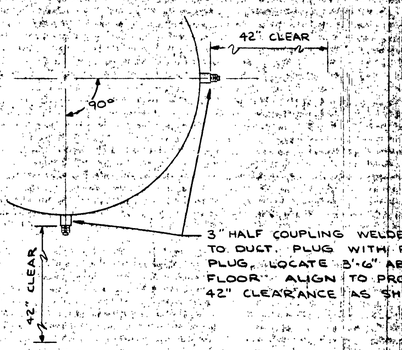
ELEVATION 1 M-6

SCALE 1/4"=1'-0"



DRAINAGE DIAGRAM 4 M-6

NO SCALE



SAMPLE PORT 2 M-6

NO SCALE

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JOB NO.

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FAIRBANKS PARKING STRUCTURE

DBA-2-0130

FAIRBANKS, AK.

PETER KIEWIT SONS' CO.

FAIRBANKS ALASKA

DRAWN BY: AS-BLT

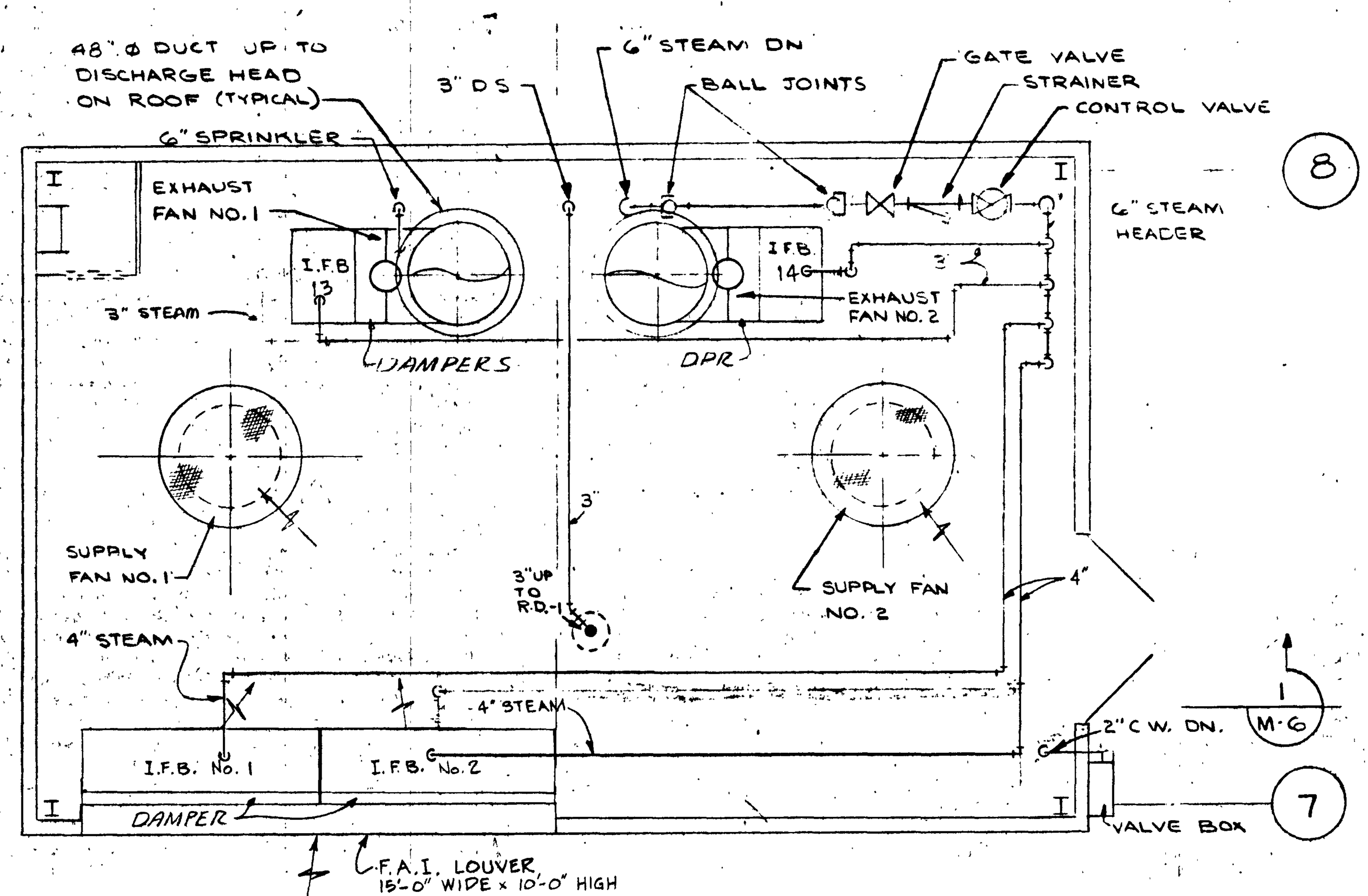
APPROVED:

DATE:

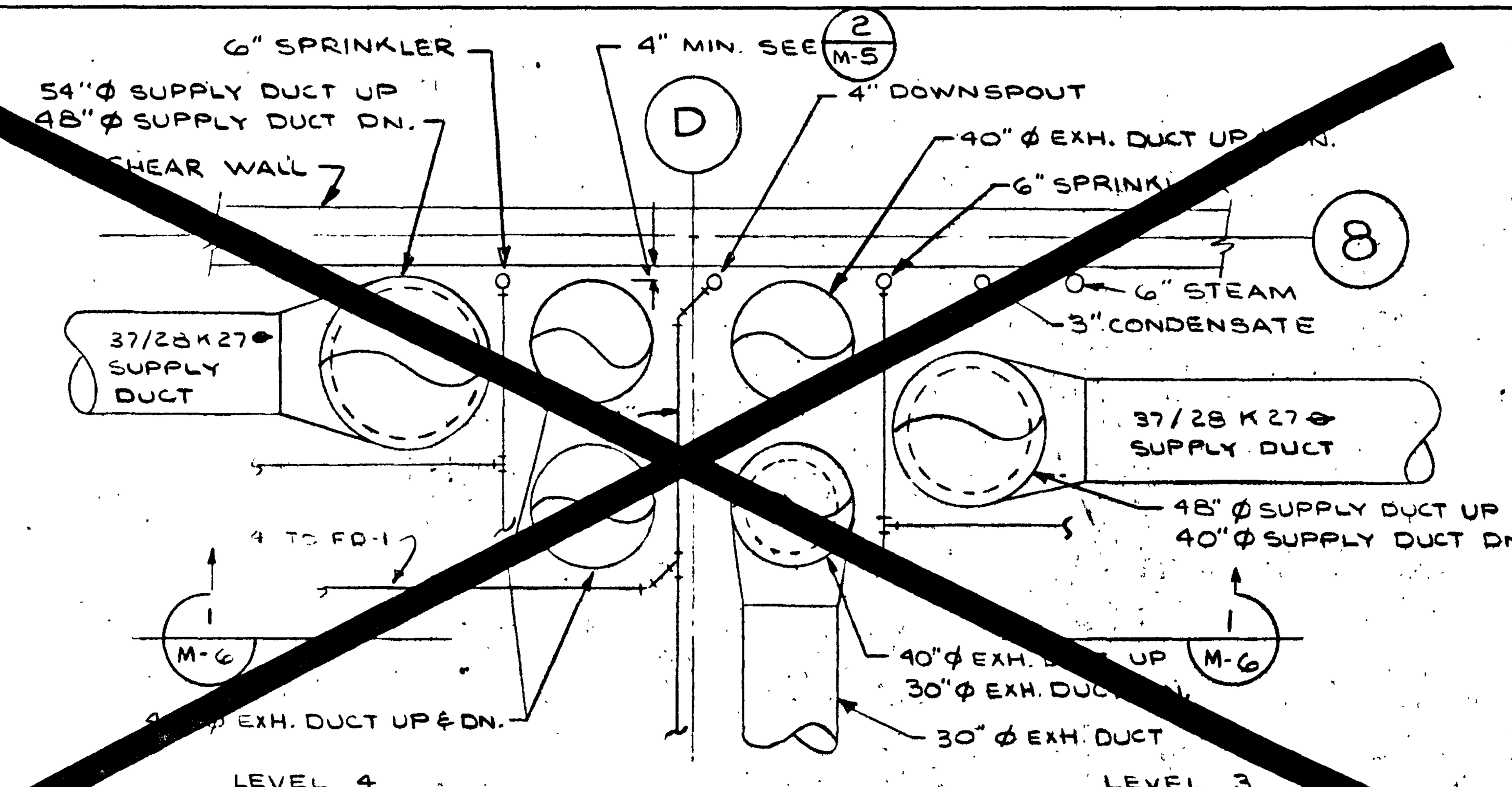
DETAILS

M-6

SHEET 41 OF 49



SECTION 1
SCALE 1/4" = 1'-0" M-7



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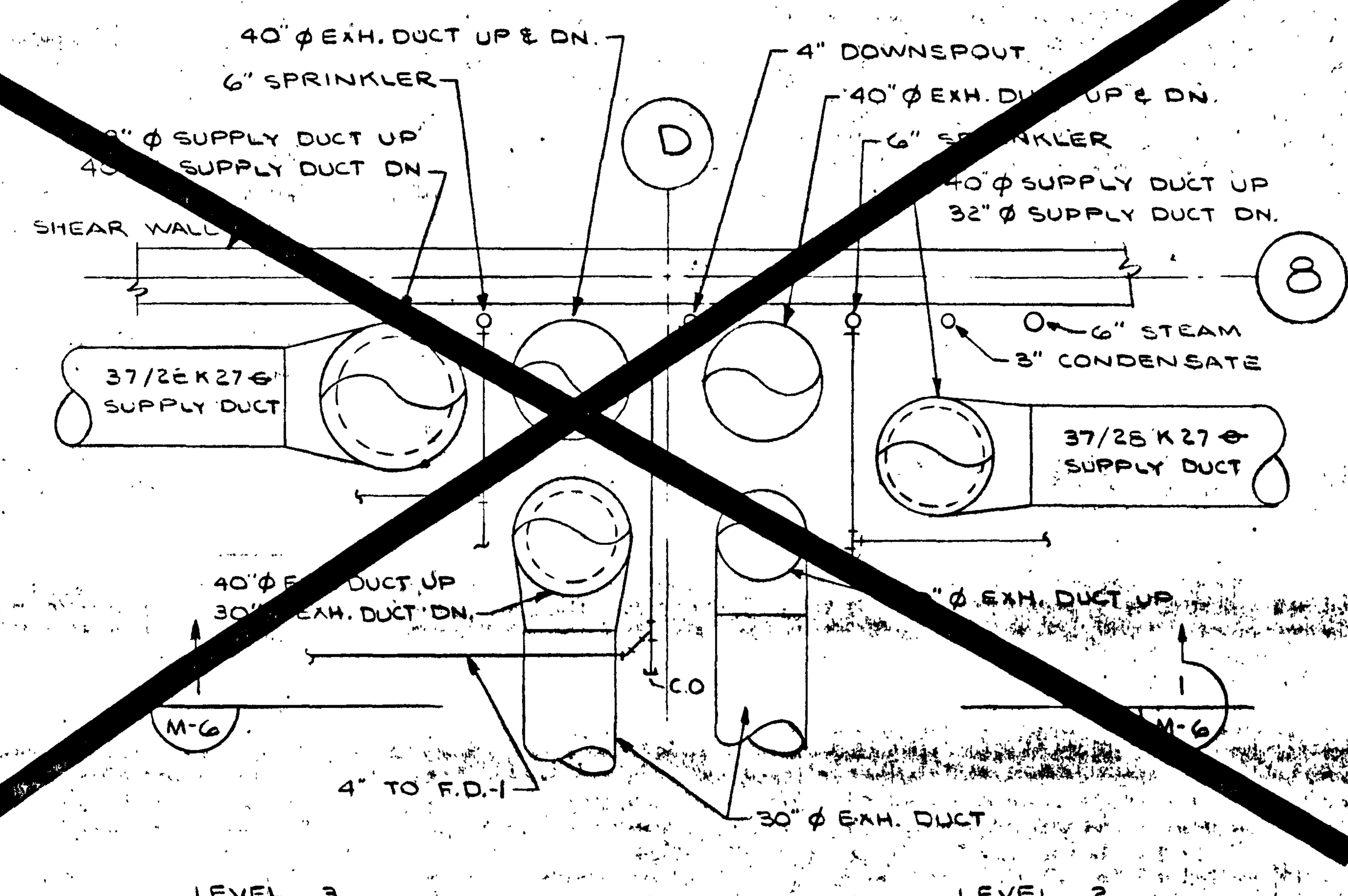

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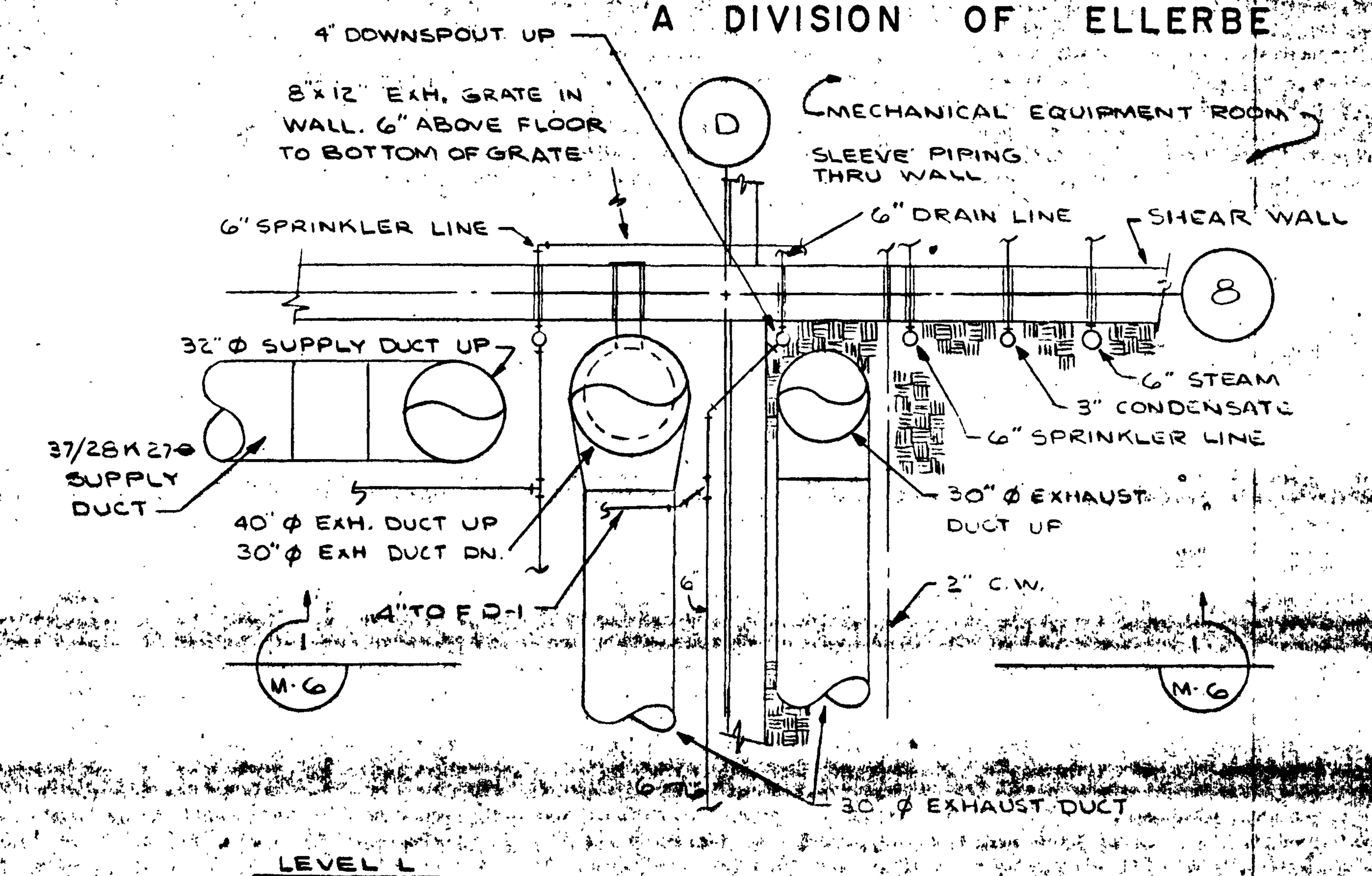

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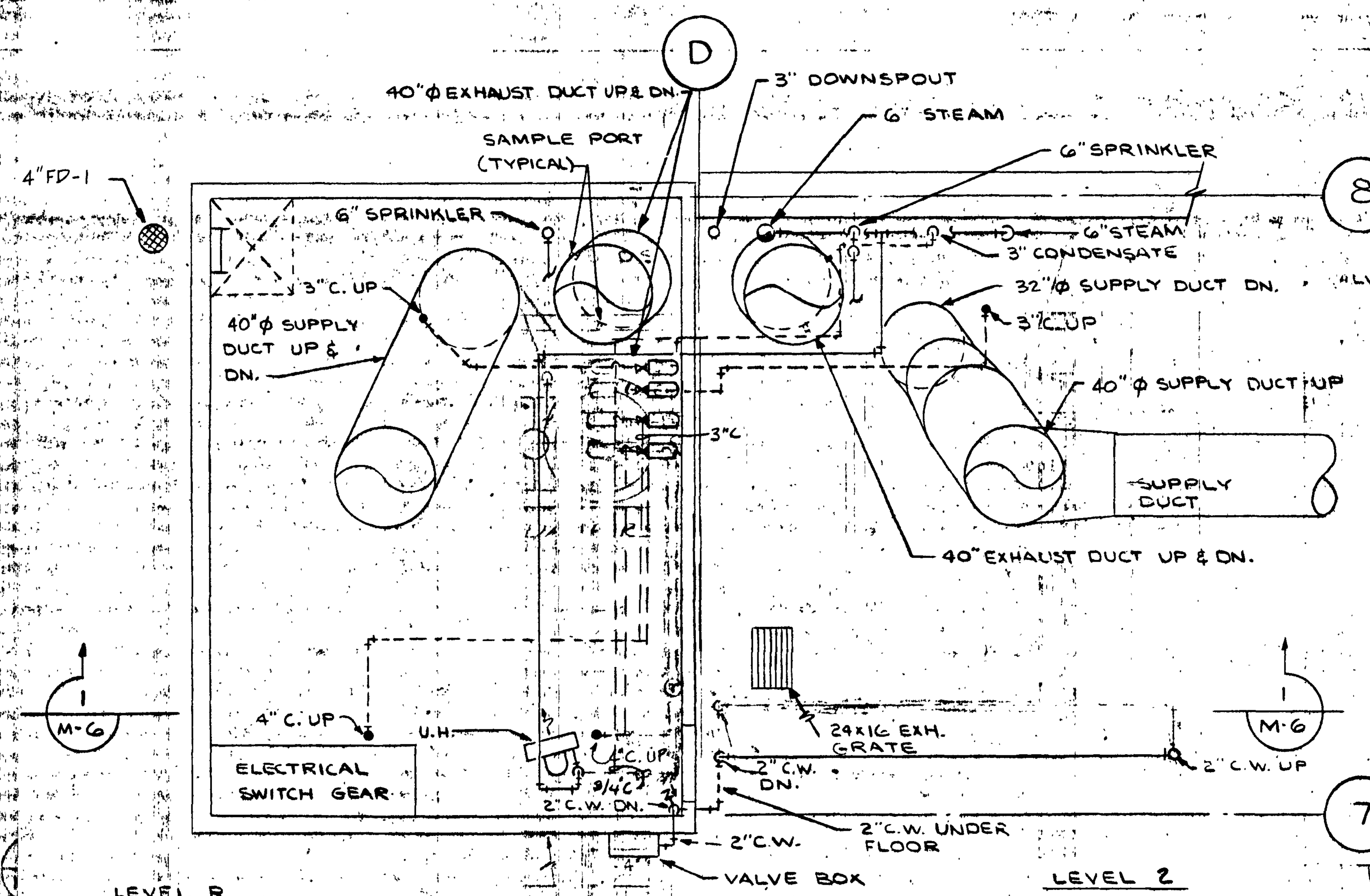

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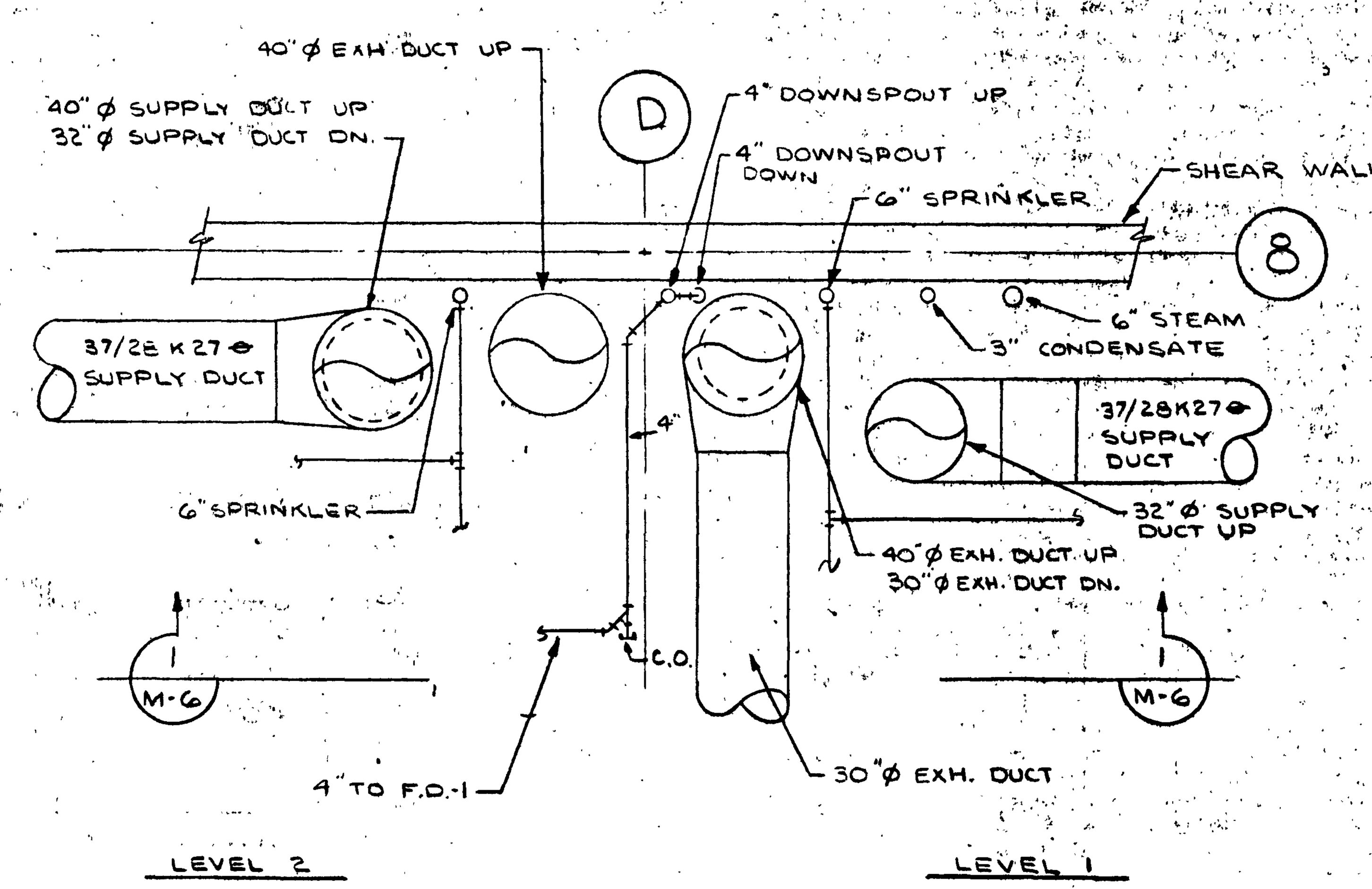
SCALE 1/4" = 1'-0" M-7



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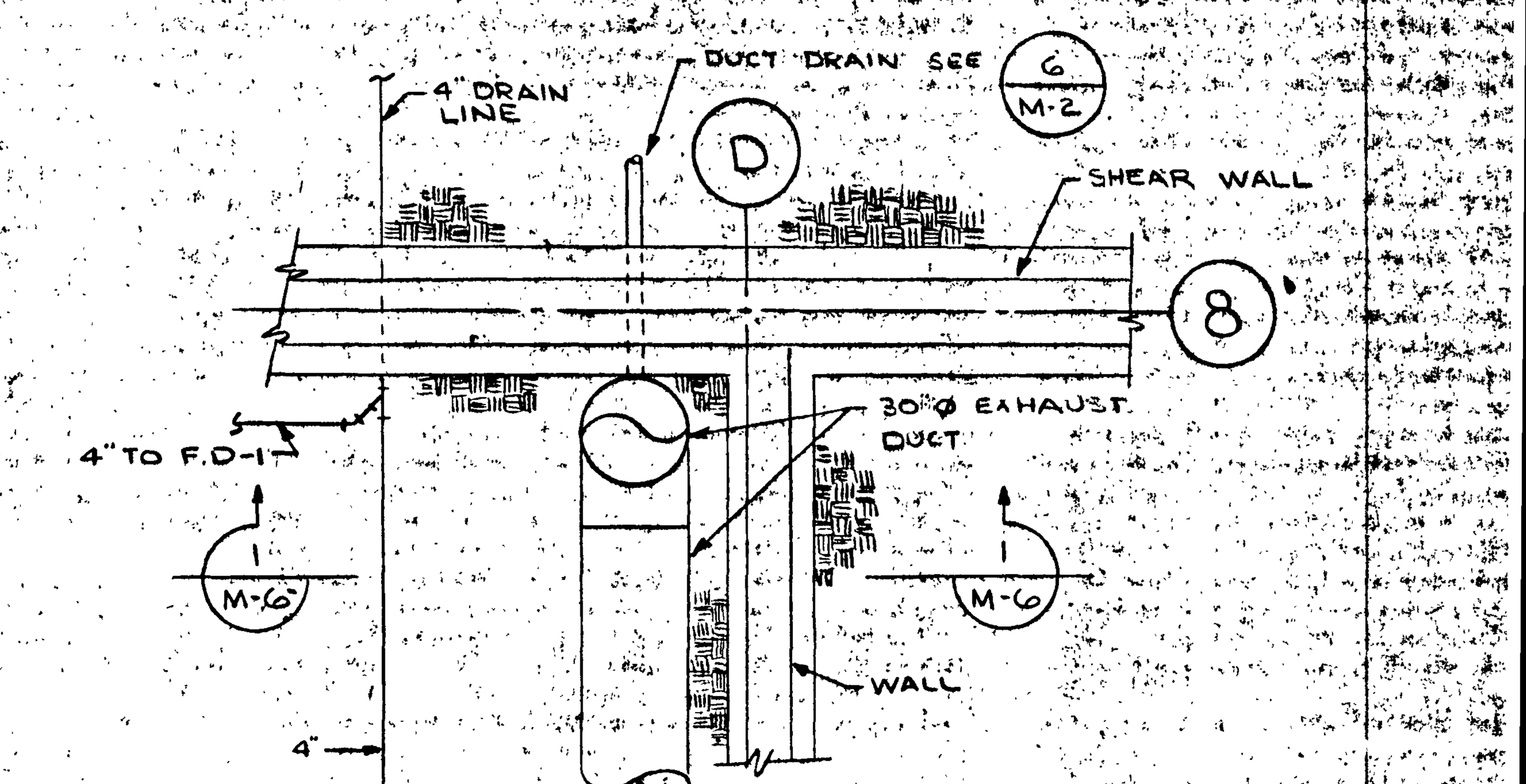

SECTION 7
SCALE 1/4" = 1'-0" M-7

NOTE: PLAN @ COL LINE 11 IS MIRROR IMAGE ABOUT COL LINE 9,10.

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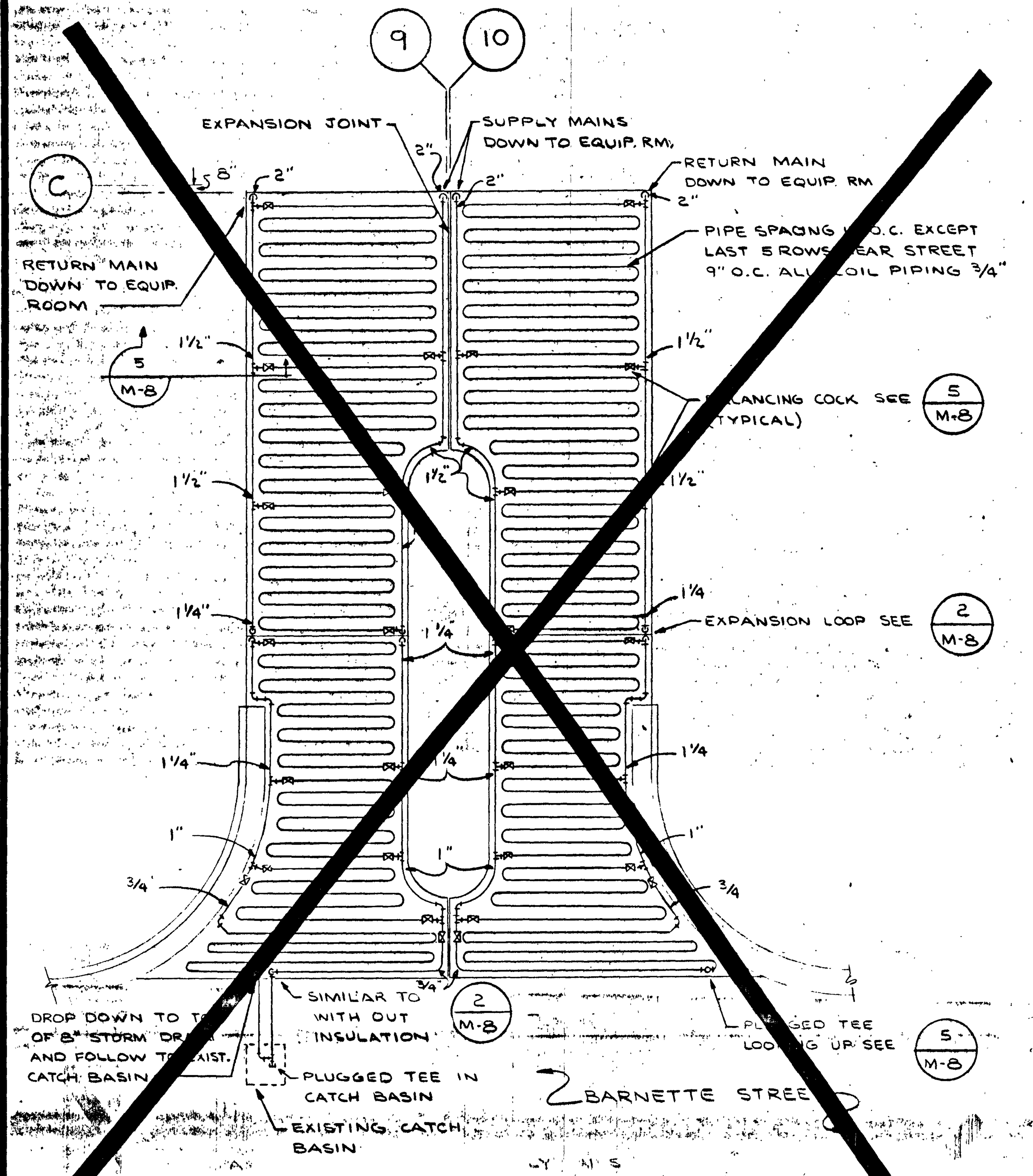
PETER KIEWIT SONS' CO.

AS-BLT

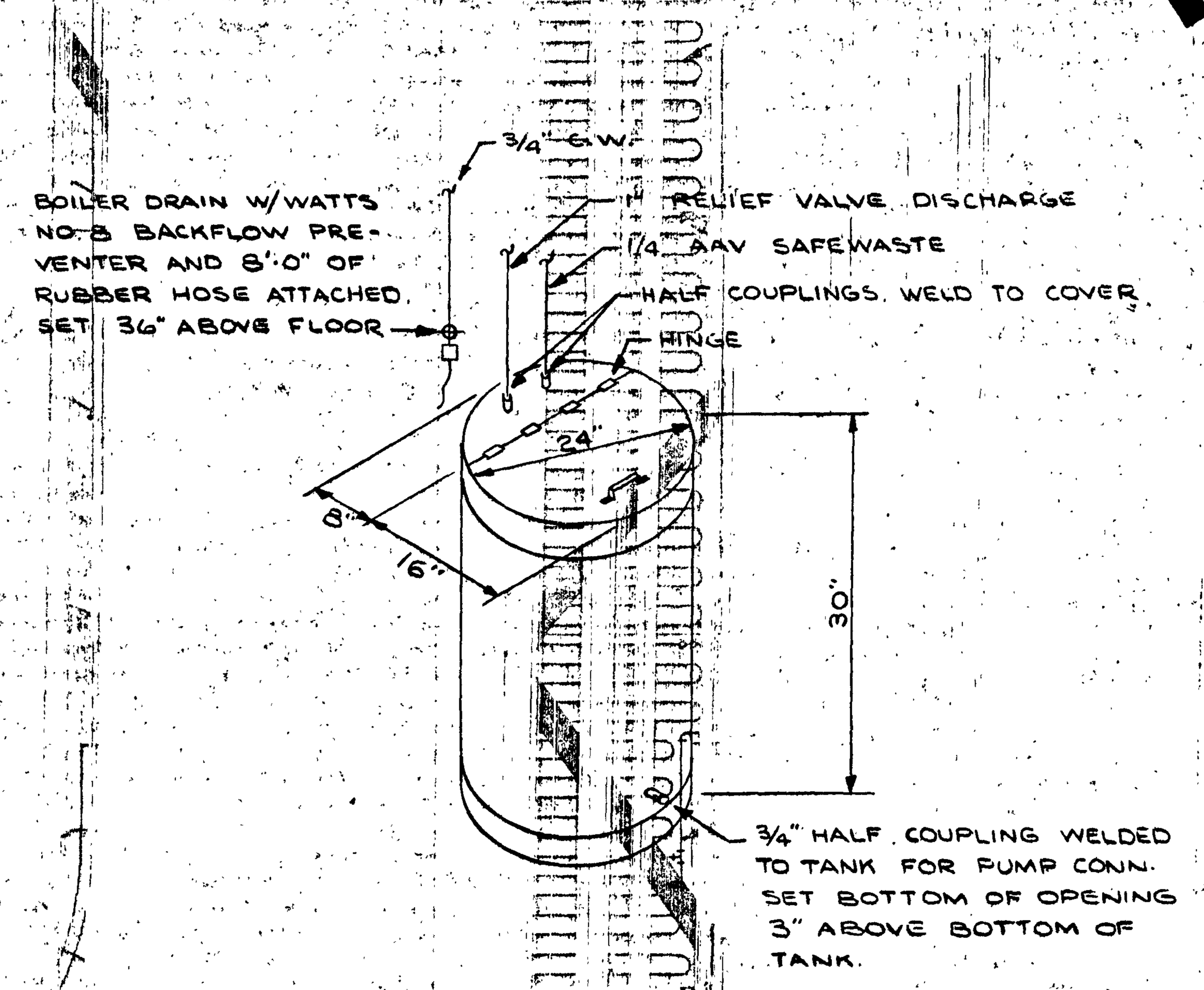
SECTIONS

M-7

SHEET 42 OF 49



SNOW MELTING PIPING PLAN 6 M-8
SCALE 1/8" = 1'-0"

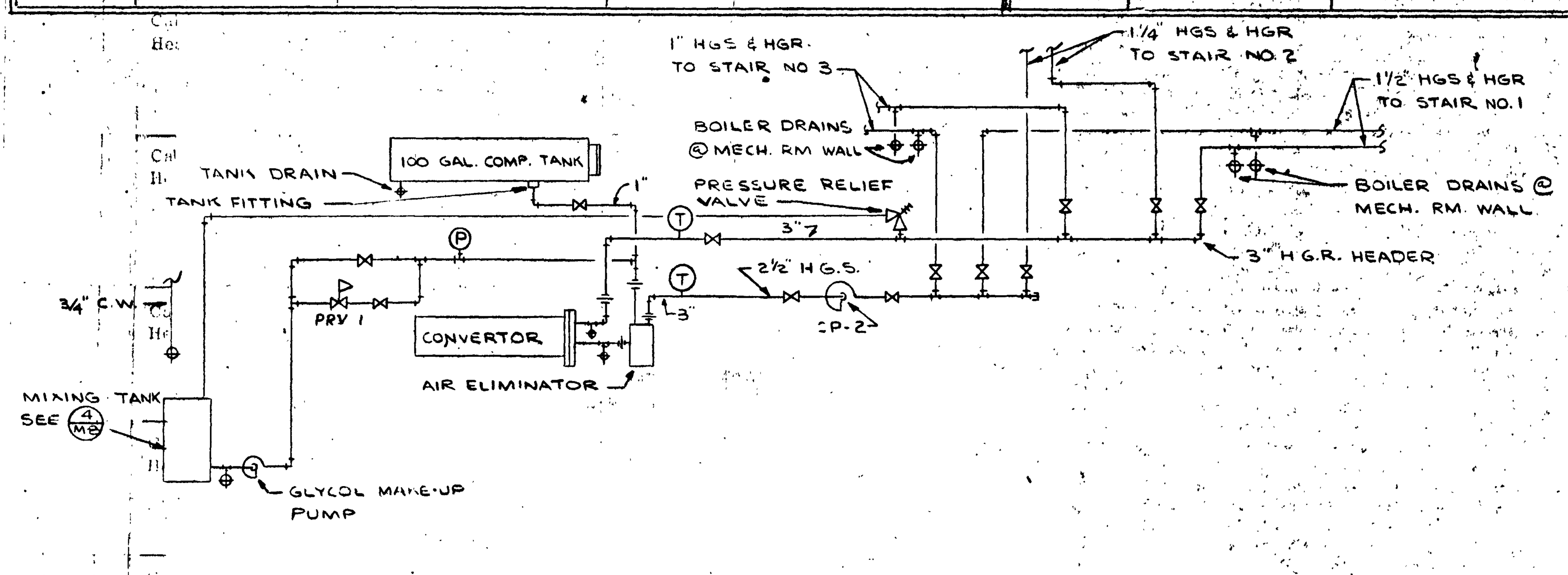


GLYCOL MIXING TANK 4 M-8
NO SCALE

MECHANICAL EQUIPMENT SCHEDULE

SYMBOL	ITEM	CAPACITY/SIZE	MOTOR DATA	BASIS OF DESIGN
UH-1	Unit Heater	60,500 Btuh at 2 PSI Steam & 60F EAT	1/20 HP 1550 RPM 120 Volts	Trane 60S Dunham Bush H250C (4 req'd)
FT-1	Fin Tube Radiation	1-1/4S 1-1/4 32 Expanded metal cover, 877 Btu/foot, 180° AWT		Sterling Type X S-143 element
FT-2	Fin Tube Radiation	1-1/4S 4 1-1/4 32 Sloping top one row cover, 970 Btu foot, 180° AWT		Sterling Type S S 143 element
CUH-1	Cabinet Unit Heater	102,378 Btuh 1800 CFM nom Inverted Flow 220° EGT 60° EAT	120 Volt 1 Phase 3 Speed	Trane Model M46A018 with G3TWPSC Motor
CUH-2	Cabinet Unit Heater	31,090 Btuh 300 CFM nom Inverted Flow Fully recessed. 220° EGT 60° EAT	120 Volt 1 Phase 3 Speed	Trane Model N46A003 with G3TWPSC Motor
CUH-3	Cabinet Unit Heater	45,000 Btuh 600 CFM nom Inverted Flow 220° EGT 60° EAT	120 Volt 1 Phase 3 Speed	Trane Model M46A006 with G3TWPSC Motor
CUH-4	Cabinet Unit Heater	86,166 Btuh 1300 CFM nom. Inverted flow. 220° EGT 60° EAT	120 Volt 1 Phase 3 Speed	Trane Model M46A013 with G3TWPSC Motor
CUH-5	Cabinet Unit Heater	119,000 Btuh 1800 CFM nom Inverted Flow 220° EGT 60° EAT	120 Volt 1 Phase 3 Speed	Trane Model M46A018 with G3TWPSC Motor
	Snow Melting	53 GPM glycol ... pipe size.	3/4 HP	
CP-2	Heating Pump	37 GPM glycol at 25 ft head. Size 1-1/2AA, 1-1/2" pipe size.	1/2 HP, 460 Volt 3 Phase	B&G 60-13T
PRV-1	Pressure Reducing Valve	3/4" pipe size Set at 12 PSI discharge		B&G #12
PRV-2	Domestic Water Pressure Reducing valve	3/4" Pipe Size with strainer	--	Wilkins 500YS
PRV-3	Steam Pressure Reducing Valve	350 PPH 40 PSI inlet 15 PSI outlet 1-1/4" valve CV=11	--	Sarco 25P
EWH	Electric Water Heater	20 Gallon cap. Glasslined steel tank. 5 yr warranty.	2000 Watt 120 Volt 1 Phase	National NSG-20

SYMBOL	ITEM	CAPACITY/SIZE	MOTOR DATA	BASIS OF DESIGN
SP-1	Duct Drain Sump Pump	30 GPM at 20' Head Submersible pump w/ auto level control	1/3 HP 120 Volt 1 Phase	Pacific Pumping ASM 3
SP-2	Floor Drainage Sump Pump	81 GPM at 20' Head. Submersible pump w/ auto level control and mechanical alternater.	3/4 HP 460 Volt 3 Phase	Pacific Pumping MS7 duplex set.
EF-1 EF-2 EF-5 EF-6	Exhaust Fans	37,500 CFM 0°F air each at 2.5" SP. Controllable pitch. Flow tical up.	30 HP 460 Volt 3 Phase 1170 RPM Explosion Proof	Joy Axivane 45-26 1170 Series 1000 (~~Eight~~ req'd) FOUR
SF-1 thru SF 4	Supply Fans	41,250 CFM 0°F air each at 2.5" SP. Controllable pitch. Flow vertical down Inlet bell & screen	40 HP 460 Volt 3 Phase 1170 RPM	Joy Axivane 42 1/4-17-1770 Series 2000 (4 req'd)
IFB-1 IFB-2 IFB-5 IFB-6	Make-up Air Heating Coils	41,250 CFM each 46.5 sq. ft. face area. EAT = -60°F LAT = +36°F 30 PSI steam Integral face and bypass dampers.	--	Wing VIFB size VE8T (4 req'd)
IFB-11 IFB-12 IFB-13 IFB-14	Recirculating Air Heating Coils	10,000 CFM each 13.5 sq. ft. face area EAT = 0°F Lat = 50°F 30 PSI steam Integral face and bypass dampers	--	Wing VIFB Size VD-3 (~~6~~ req'd) 4
--	Exhaust Discharge Hoods	37,500 CFM Upblast discharge. Integral low leakage back draft dampers. Pre-fabricated, insulated metal curb. For 48" duct.		Penn Hi-Ex cap w/ Uni-Beam curb.
	Flash Tank	125 PSI ASME construction cement lined tank. 42" diameter 78" high. Ring base.		National, Ace.
ACD	Air Curtain Door	8'-2-1/2" High x 17'-10 1/2" Wide door opening. 14000 CFM each. Without heating coil.	4 at 5 HP 460 Volts 3 Phase	Disco In-wall Model with door switch (two req'd)
		90 GPM EGT 200°F LGT 220°F ... HEATING SURFACE FOUR PASS		
--	CONVERTER	37 GPM EGT 200°F LGT 220°F 10psi STEAM IN SHELL. 32 sq. ft. HEATING SURFACE, FOUR PASS		B&G SU 84-4
--	Compression Tank	100 Gallon ASME tank with gage glass, tank fitting and tank drainer.		B&G
--	Condensate Pump	Duplex Set 60 GPM ea. 200° condensate. 25 PSI discharge. 100 Gallon cast iron receiver. Mechanical alternator and float switch.	2 HP 460 Volt 3 Phase	Pacific Pumping GRD 412MD20P
--	Air Eliminator	In-line type. 185 GPM max. flow 3" pipe connections.	--	B&G IAF-3



GLYCOL PIPING SCHEMATIC 3 M-8
NO SCALE

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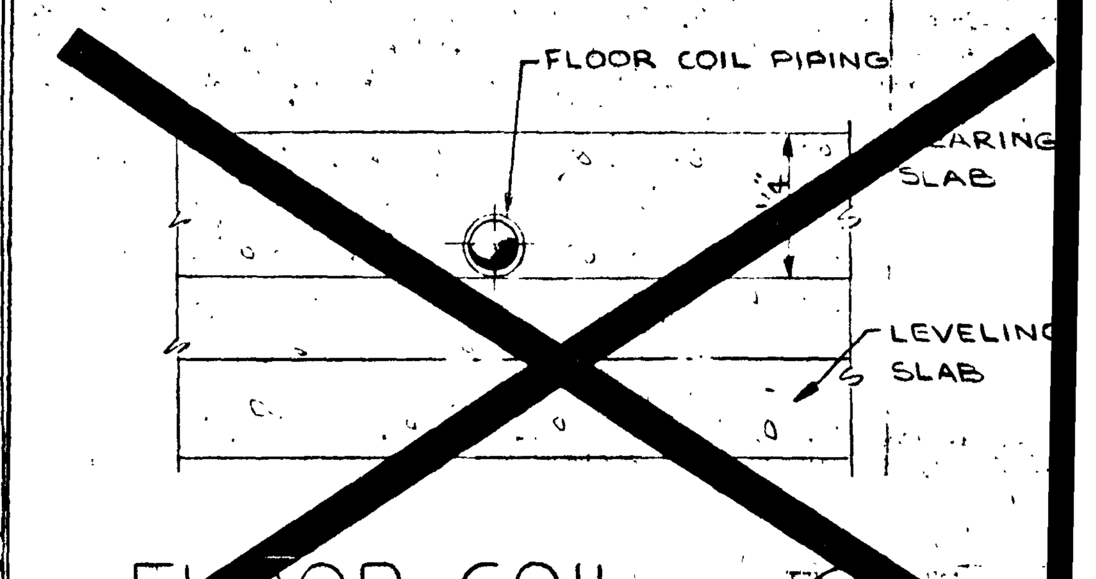
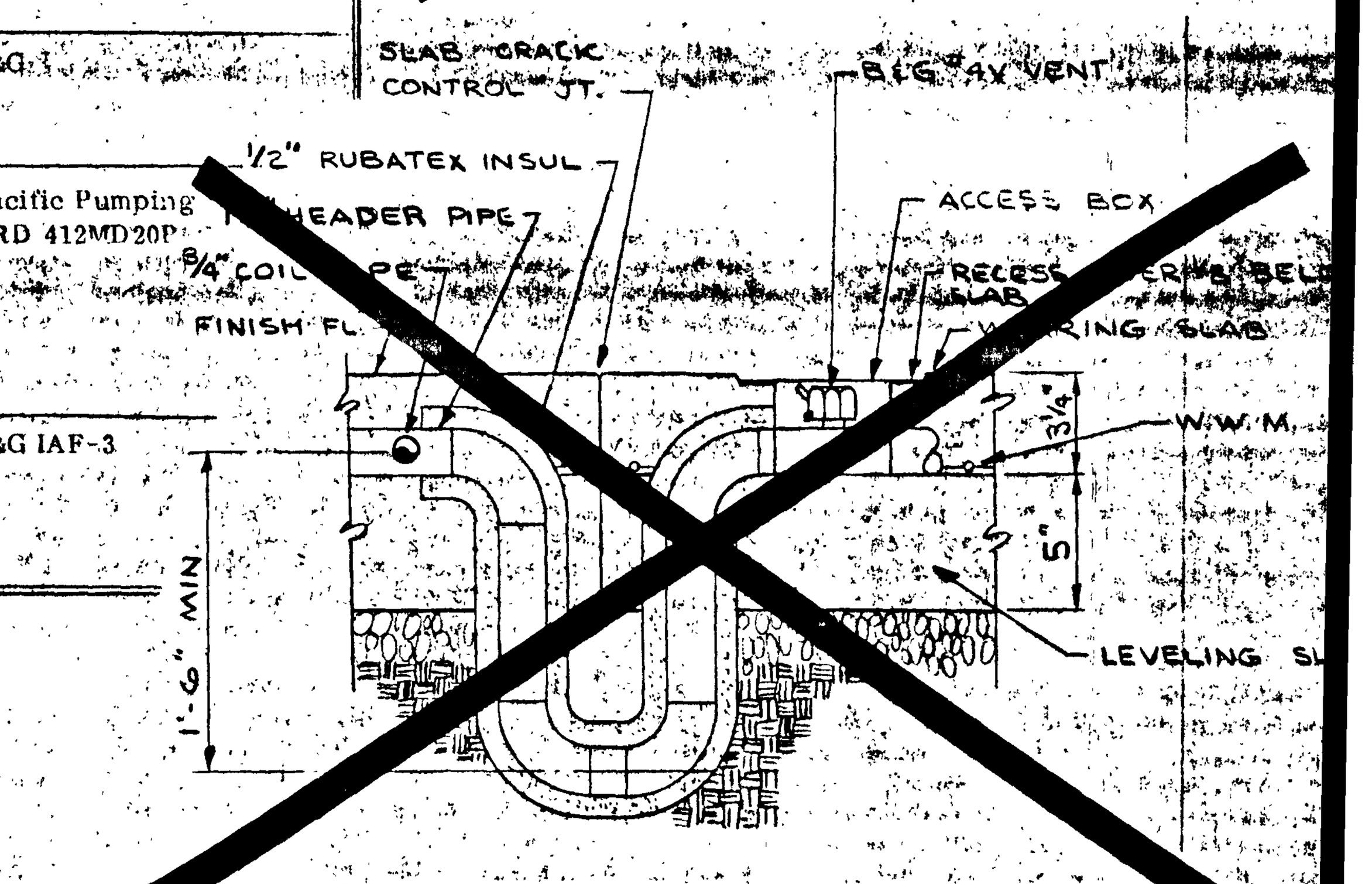
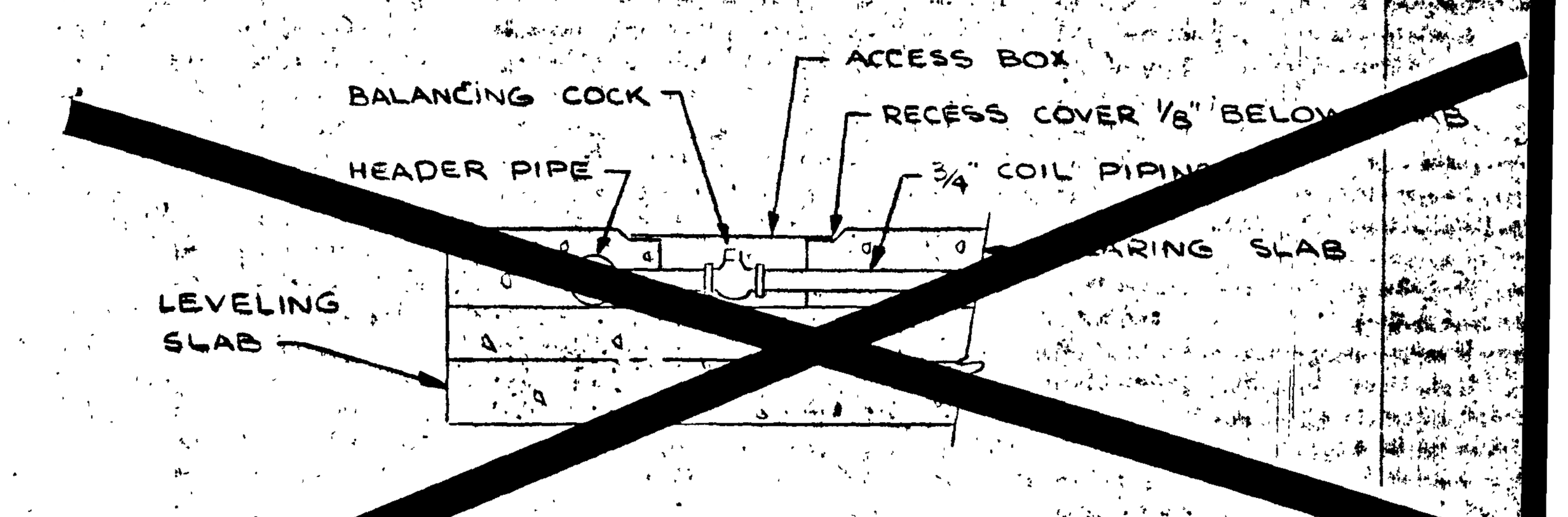


FLOOR COIL 1 M-8
NO SCALE



FLOOR COIL EXPANSION LOOP 2 M-8
NO SCALE



BALANCING COCK ACCESS 5 M-8
NOTE
PLUGGED TEE SIMILAR

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FAIRBANKS PARKING STRUCTURE

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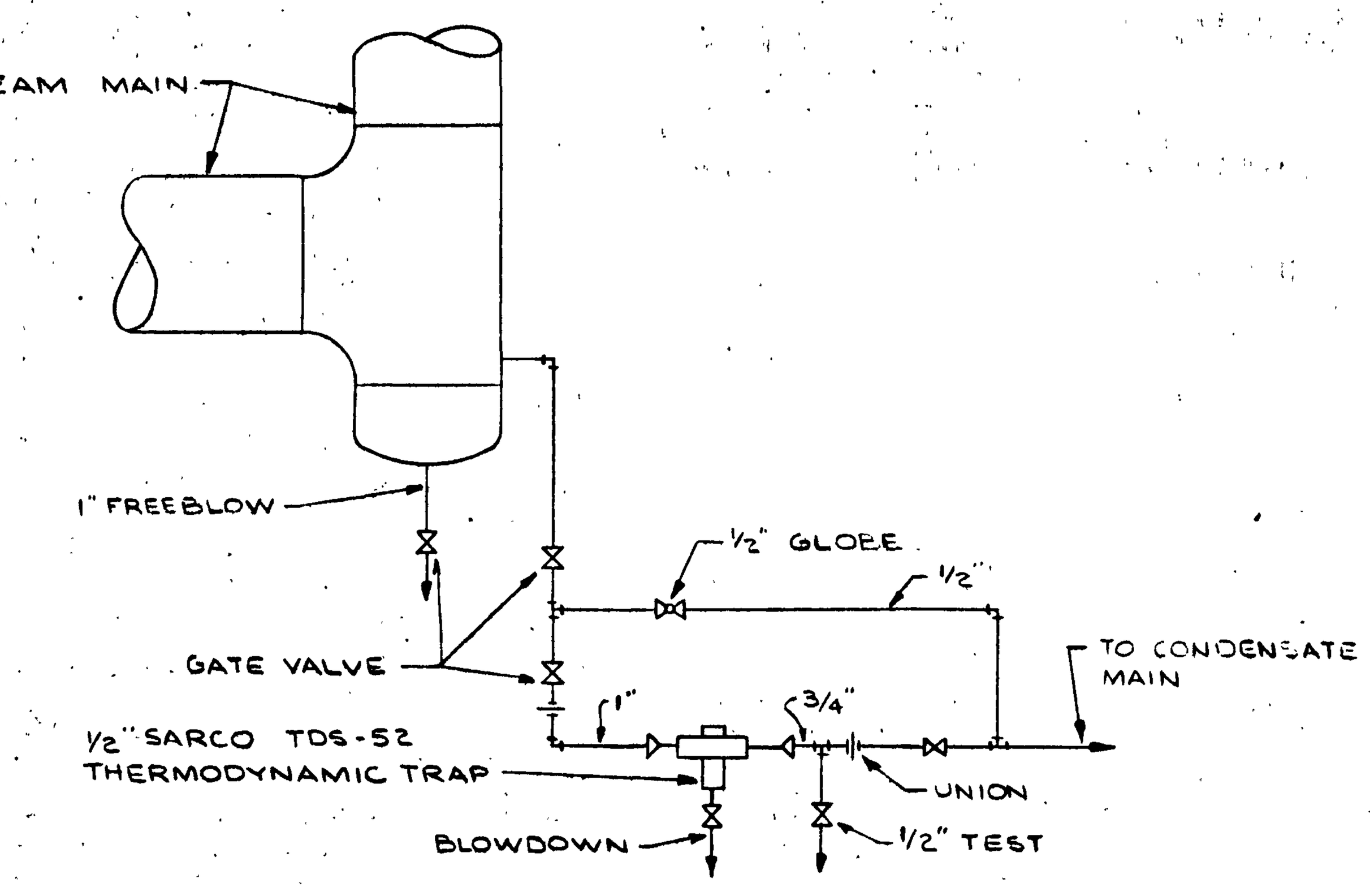
FAIRBANKS, AK.

SCHEDULES AND DETAILS

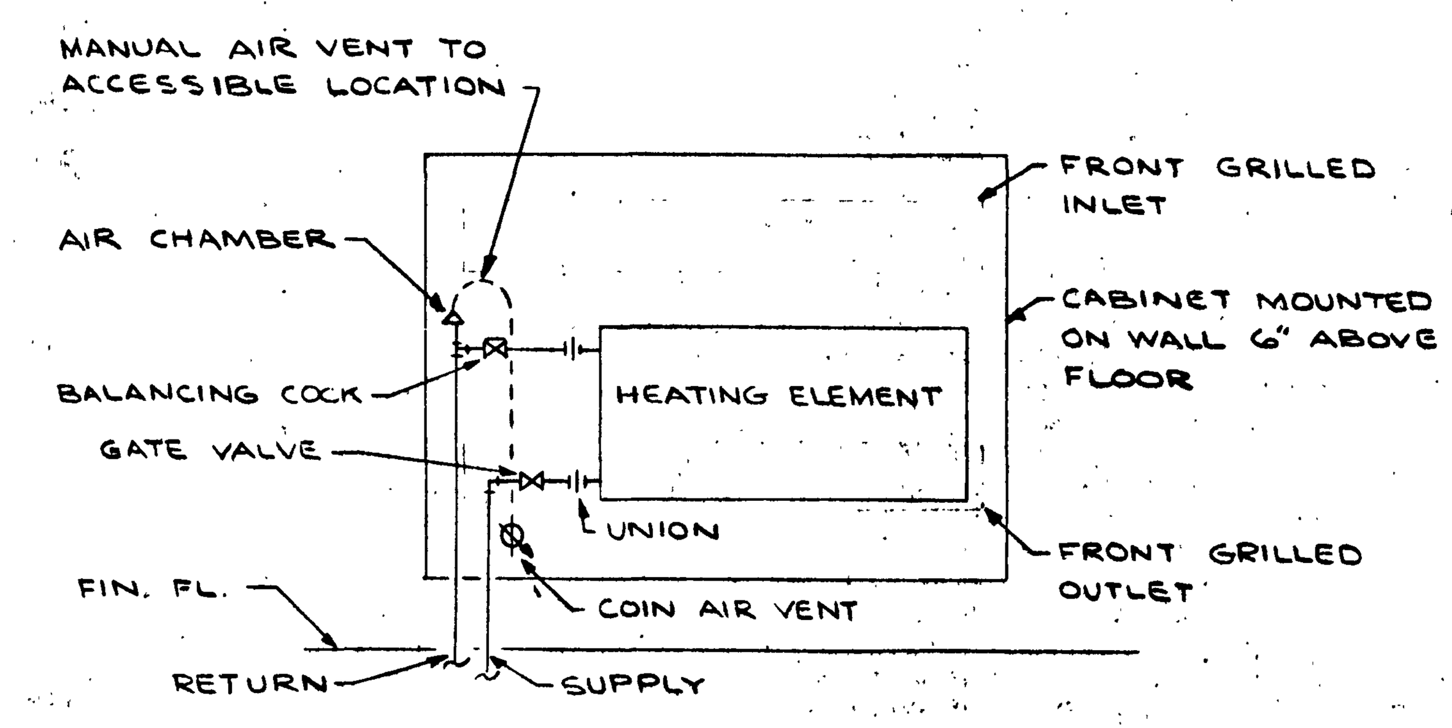
AS-BLT

M-8

SHEET 43 OF



TRAP ASSEMBLY FOR MAINS (5 / M-9)
NO SCALE



TYPICAL CABINET UNIT HEATER (3 / M-9)
NO SCALE

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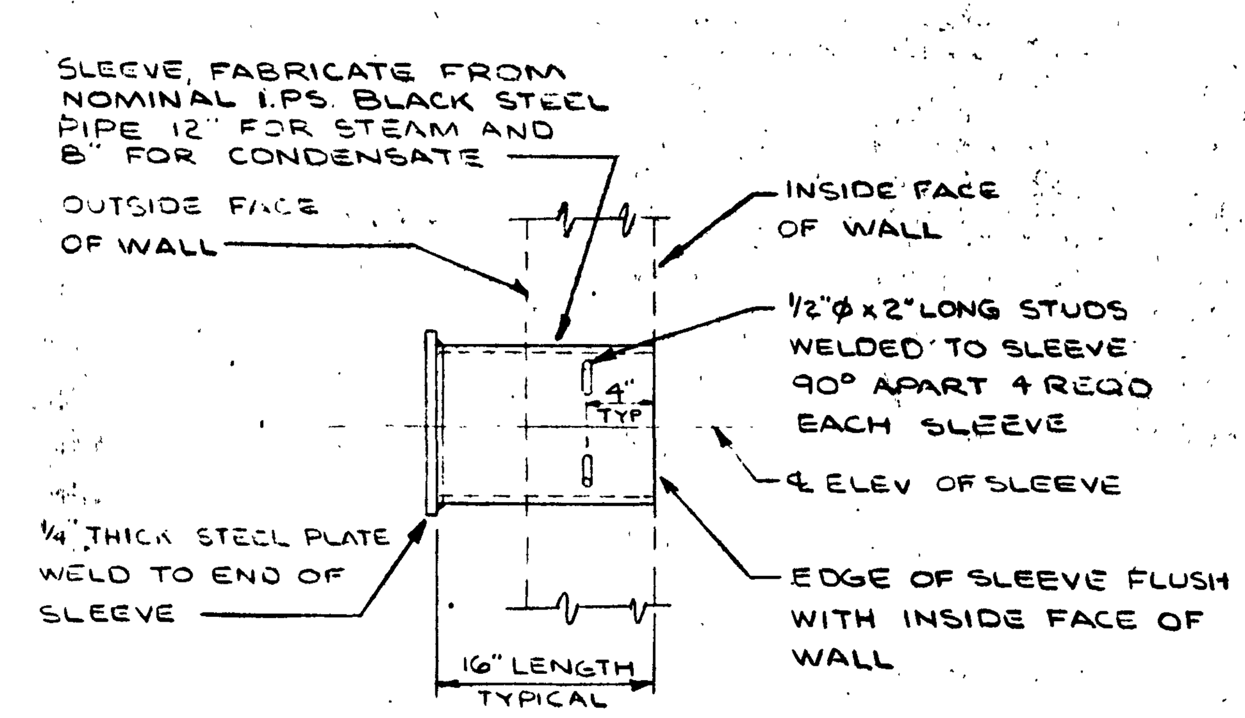


SIDE ELEVATION

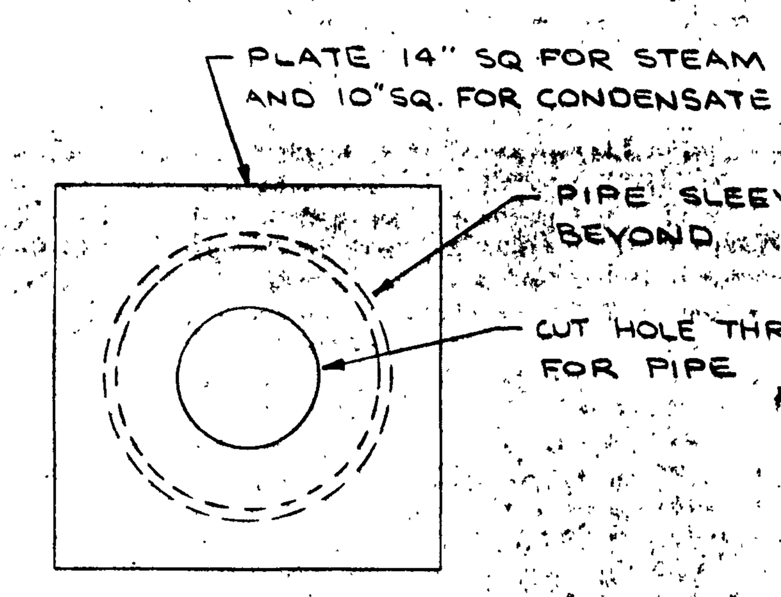
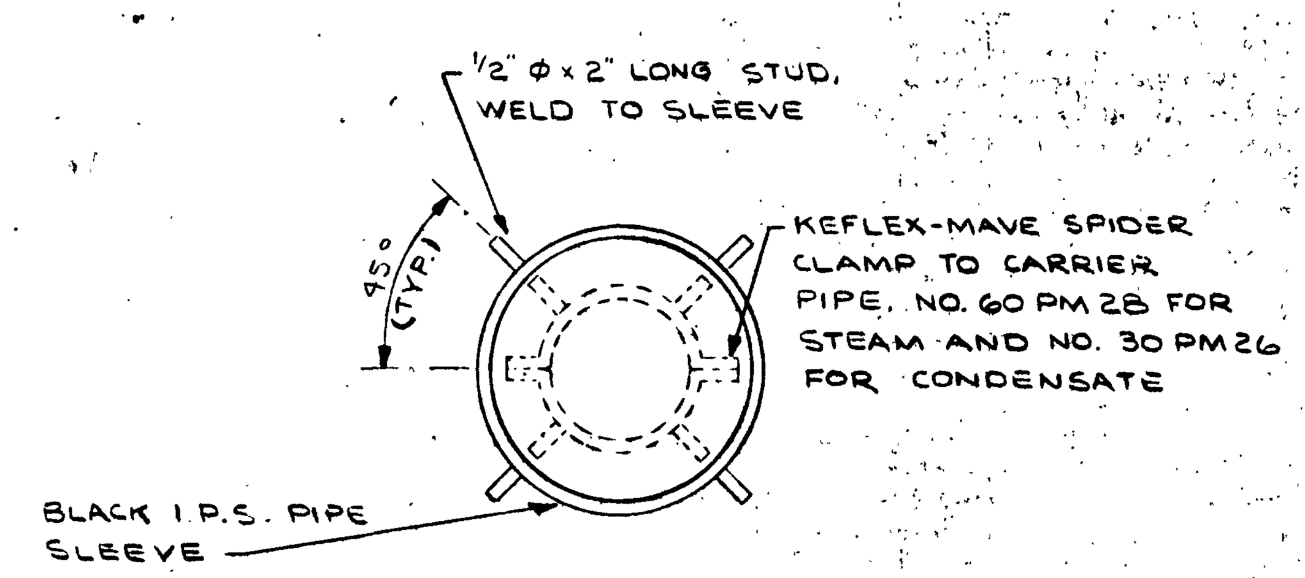
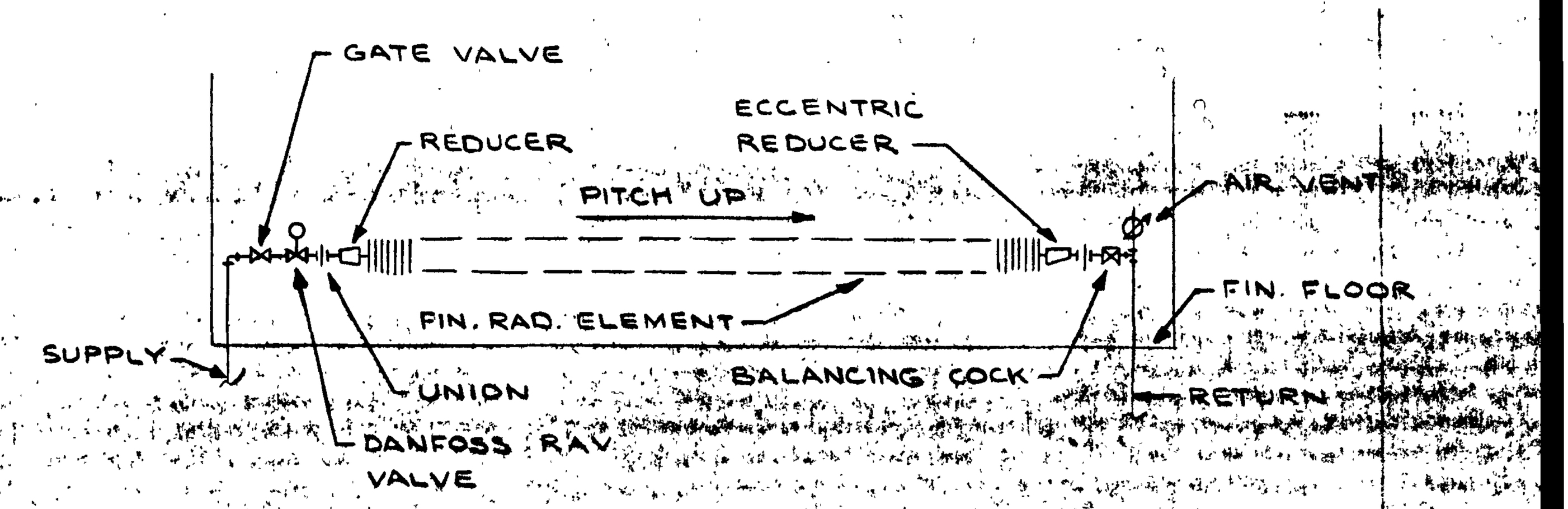


PLATE END VIEW
(OUTSIDE WALL)

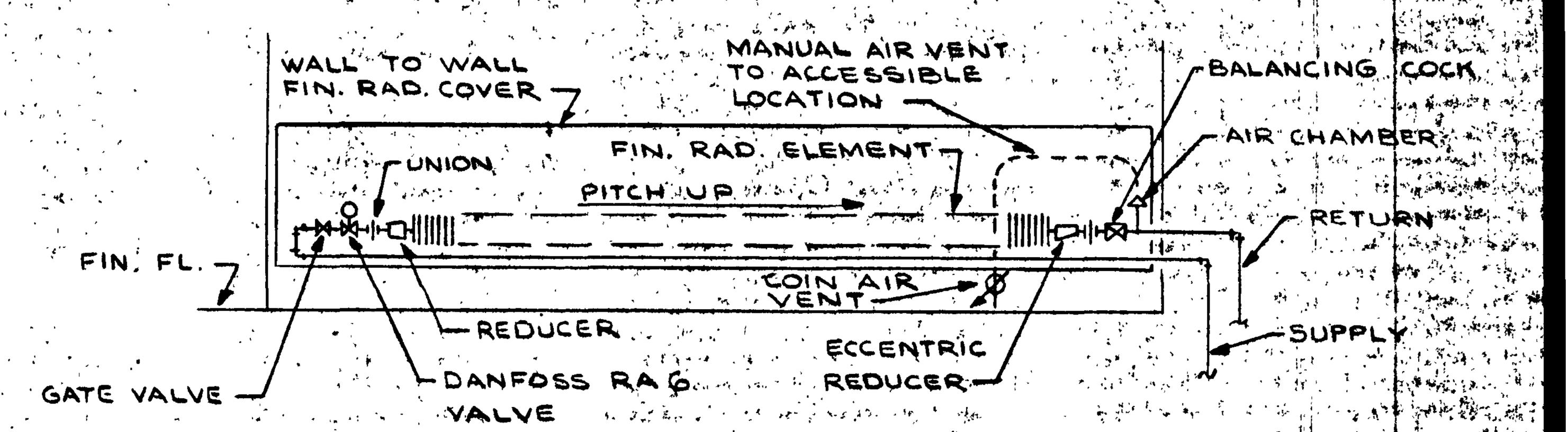


OPEN END VIEW
(INSIDE WALL)

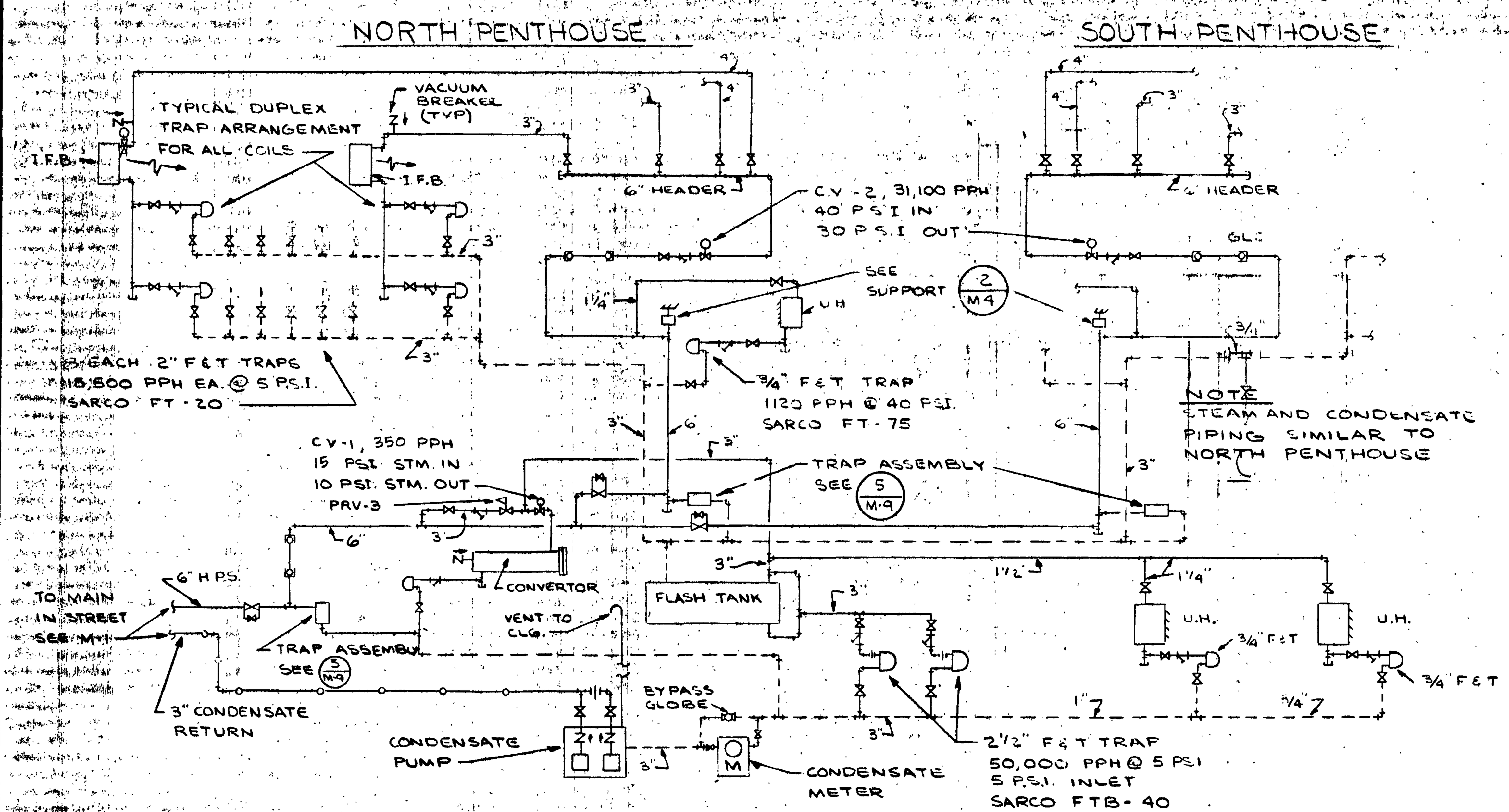
SLEEVE DETAILS (4 / M-9)
NO SCALE



ELEVATION HOT WATER RADIATION FT-1 (1 / M-9)
NO SCALE



ELEVATION HOT WATER RADIATION FT-2 (2 / M-9)
NO SCALE



STEAM AND CONDENSATE PIPING DIAGRAM (6 / M-9)
NO SCALE

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DATE: 6-27-74

DETAILS

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FAIRBANKS PARKING STRUCTURE

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PETER KIEWIT SONS' CO.

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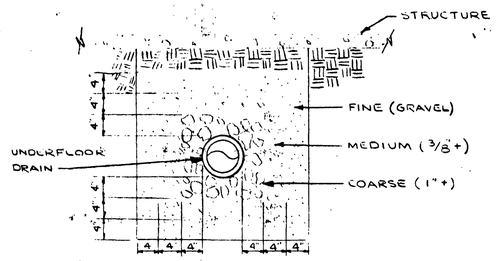
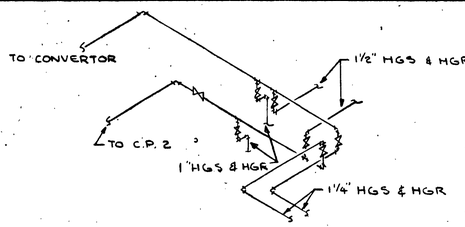
M-9

SHEET 44 OF 49



SECTION
NO SCALE
3 M-10



GLYCOL PIPING ISOMETRIC
NO SCALE

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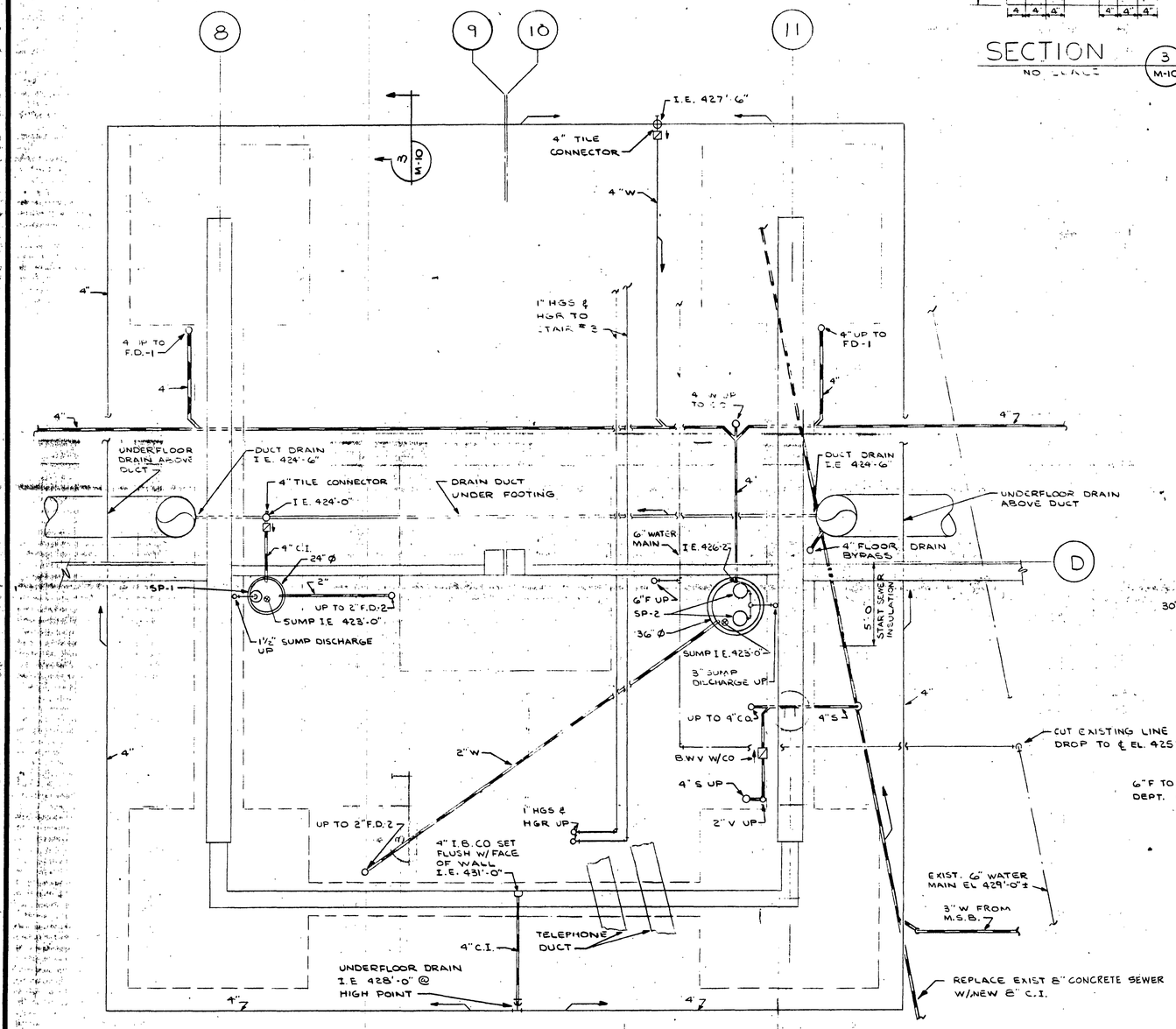
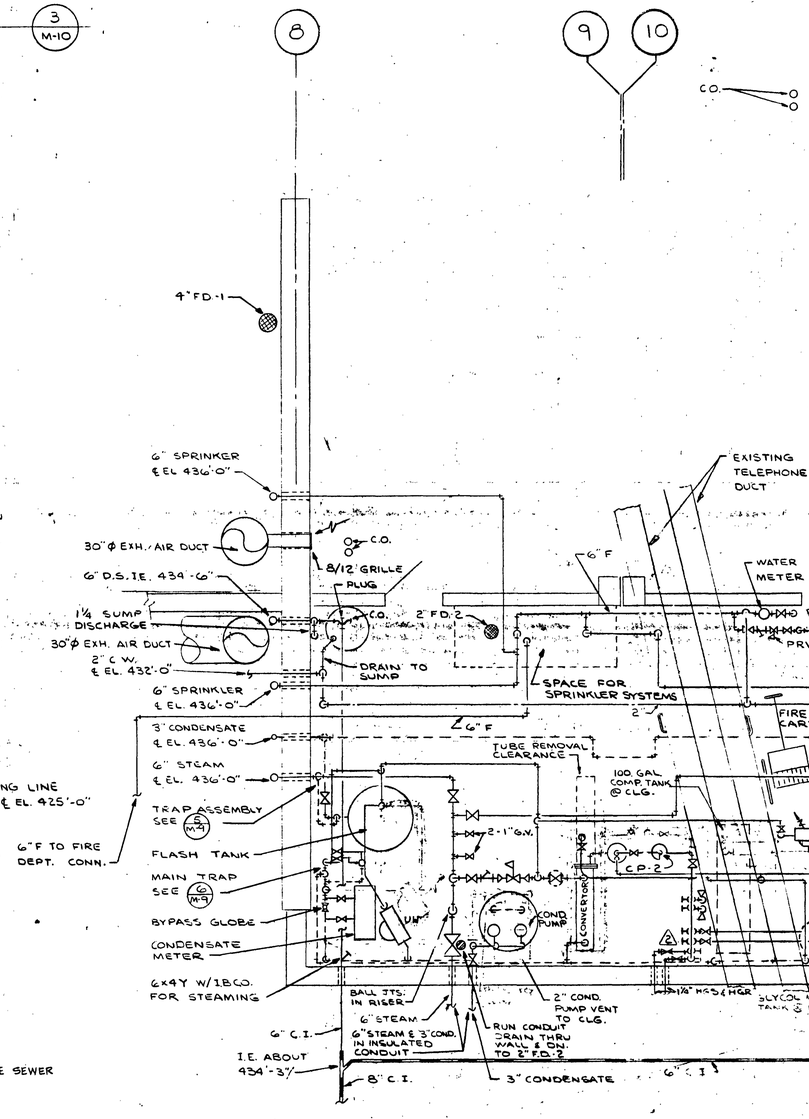


FOUNDATION PLAN
SCALE 1/4" = 1'-0"
2 M-10



NOTE
SLEEVE ALL PIPING THRU WALLS

MECHANICAL EQUIPMENT ROOM
SCALE 1/4" = 1'-0"
1 M-10

JOB NO. 7313-734
DATE 6-27-74

LEVEL L MECHANICAL ROOM PLANS

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SURVEYED
DATE
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SHEET 45 OF 49

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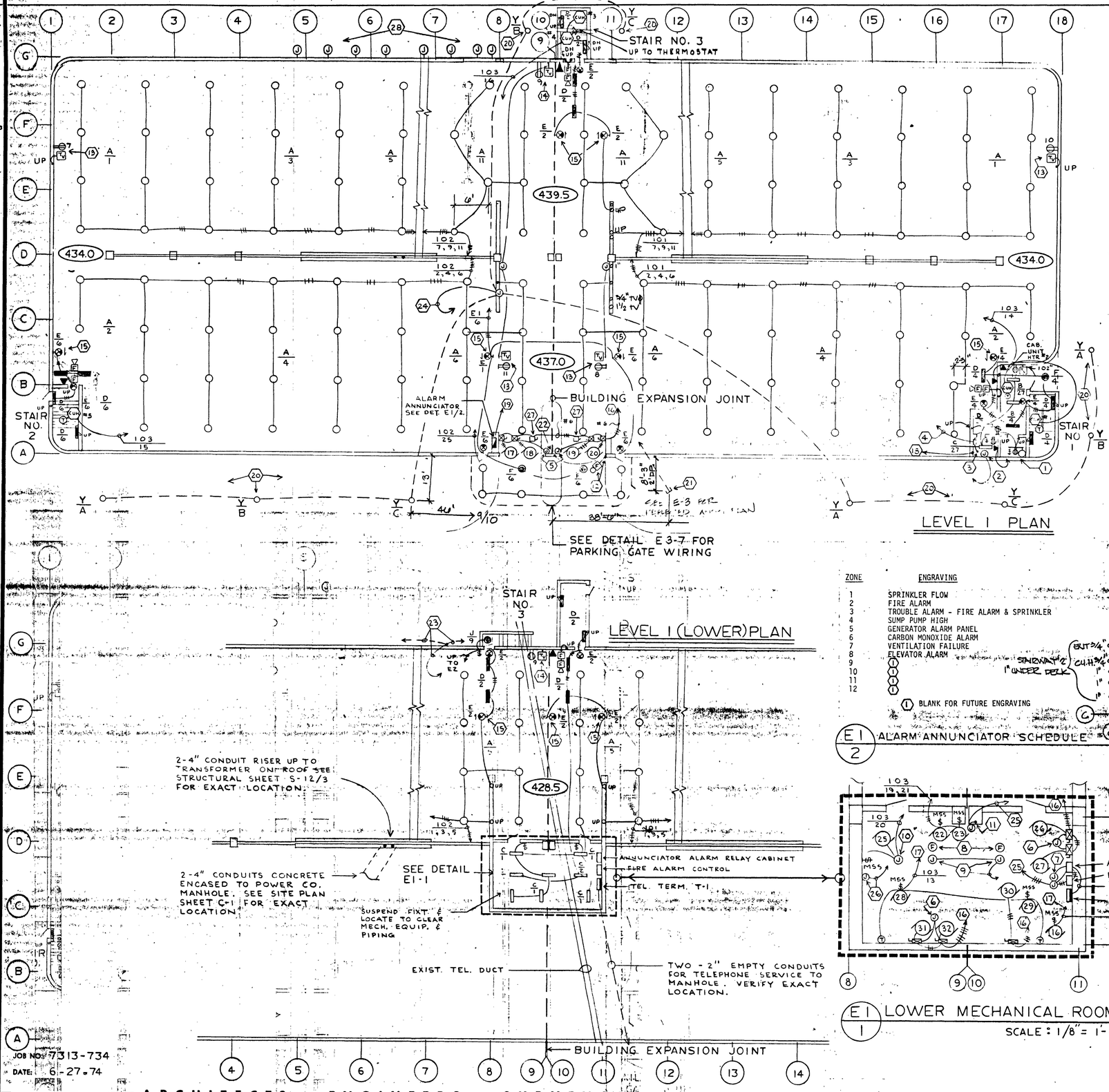


ZONE	ENGRAVING
1	SPRINKLER FLOW
2	FIRE ALARM
3	TROUBLE ALARM - FIRE ALARM & SPRINKLER
4	SUMP PUMP HIGH
5	GENERATOR ALARM PANEL
6	CARBON MONOXIDE ALARM
7	VENTILATION FAILURE
8	ELEVATOR ALARM
9	
10	
11	
12	

(1) BLANK FOR FUTURE ENGRAVING

E1/2 ALARM ANNUNCIATOR SCHEDULE

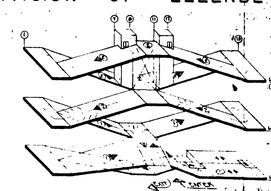
E1/1 LOWER MECHANICAL ROOM
SCALE: 1/8" = 1'-0"

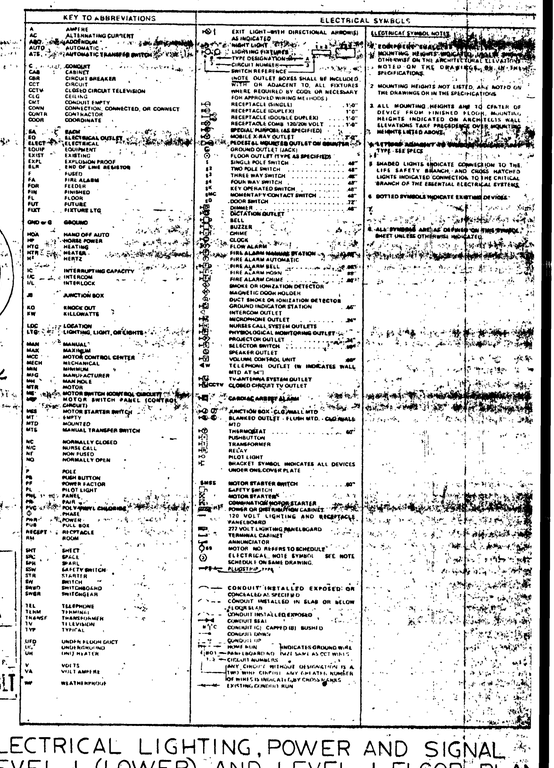
ELECTRICAL NOTES

1. SWITCH, LIGHT AND RECEPTACLE IN ELEVATOR PIT. VERIFY EXACT LOCATION.
2. 120 VOLT EMERGENCY CIRCUIT FOR CAB LIGHTS. CONNECT TO CONTROLLER AND RUN TO EMERGENCY PANEL L2.
3. PROVIDE 60A FUSED SWITCH AND CONNECT FEEDER TO CONTROLLER FOR 20 HP ELEVATOR.
4. ELEVATOR FEEDER 3/4" - 3# 8 UP TO PANEL DP-1.
5. CONNECT UP LIMIT SWITCH ON ROLL UP DOOR TO START AIR DOOR WHEN ROLL UP DOOR IS OPENED.
6. CONNECT UP FLOAT SWITCH AND MECHANICAL ALTERNATOR TO CONTROL SUMP PUMPS.
7. HI WATER FLOAT SWITCH ON SUMP RUN 1/2" - 2# 12 TO ALARM ANNUNCIATOR RELAY CABINET IN LOWER MECHANICAL ROOM.
8. ALARM CHECK VALVES SEE FIRE ALARM RISER.
9. CONNECT UP SUPERVISORY CIRCUIT ON SPRINKLER PRESSURE SWITCH AND VALVE POSITION SWITCH. RUN 3/4" - 4# 12 TO ANNUNCIATOR RELAY CABINET IN LOWER MECHANICAL ROOM.
10. CONNECT UP FLOAT SWITCH TO CONTROL SUMP PUMP.
11. 3/4" CONDUIT FROM SPRINKLER SYSTEM VALVING IN LOWER MECHANICAL ROOM TO SPRINKLER ALARM BELL AT ENTRANCE COLUMN A-11.
12. SPRINKLER ALARM BELL AND CONDUIT SEE NOTE 11.
13. INSTALL OUTLET IN FACE OF BEAM. RUN CONDUIT IN COLUMN OR SHEAR WALL. MOUNT AT 8'-6".
14. INSTALL OUTLET IN FACE OF COLUMN, RUN CONDUIT IN COLUMN, MOUNT AT 8'-6".
15. EXIT LIGHT TO BE MOUNTED ON FACE OF BEAM.
16. HOME RUN UP TO PANEL DP-1 IN NORTH PENTHOUSE.
17. HOME RUN UP TO PANEL 103 IN NORTH PENTHOUSE.
18. RUN 1/2" - 2# 12 TO ANNUNCIATOR RELAY CABINET IN LOWER MECHANICAL ROOM.
19. 1-1/2" - 30# 14 TO ANNUNCIATOR RELAY CABINET IN LOWER MECHANICAL ROOM.
20. REFER TO SITE PLAN C-1 FOR EXACT LOCATION OF TYPE "Y" LUMINAIRES. (SEE E4/8 FOR WIRING DETAIL).
21. STUB 3/4" CONDUIT INTO PLANTER 12" BELOW TOP OF SOIL AND CAP FOR FUTURE SIGN LIGHTING. RUN CONDUIT TO JUNCTION BOX NEAR PANEL 102.
22. INSTALL CONTROL SWITCHES FOR ROLL UP DOORS. SWITCHES FURNISHED BY DOOR SUPPLIER.
23. RUN 1# 3/0 BARE IN BOTTOM OF FOOTING AND CONNECT TO 5/8" X 20' GROUND ROD AT COLUMNS G-1 AND G-18. RUN 3/4" - 1# 3/0 TO GROUND BUS IN SWITCHBOARD.
24. RUN 3/4" - 4# 10 TO LIGHTING CONTACTOR IN NORTH MECHANICAL PENTHOUSE.
25. HOME RUN UP TO PANEL E2.
26. 8" X 8" X 4" D. JUNCTION BOX AND 2" CONDUIT TO NORTH PENTHOUSE FOR FUTURE USE.
27. CONNECT UP 1/2 HP 460 VOLT ROLL UP DOOR. STARTER FURNISHED UNDER DIVISION 8 AND INSTALLED UNDER DIVISION 16.
28. TWO GANG OUTLET WITH BLANK STAINLESS STEEL COVER AND GASKET CAST IN CONCRETE BASE. STUB 3/4" CONDUIT OUT 24" BELOW GRADE AND BUSH FOR FUTURE HEAD BOLT HEATERS. BOX TO BE RACO #246 WITH #795 1-1/2" SQUARE CUT COVER OR EQUAL.

GRAY ROGERS MYERS & MORGAN

A DIVISION OF ELLERBE





PETER KIEWIT SONS' CO.
FAIRBANKS ALASKA
RECOMMENDED: CONTRACTOR'S P.E.
APPROVED: OWNER'S P.E.
DATE:
AS-BLT

ELECTRICAL LIGHTING, POWER AND SIGNAL LEVEL 1 (LOWER) AND LEVEL 1 FLOOR PLAN

JOB NO: 7313-734
DATE: 6-27-74

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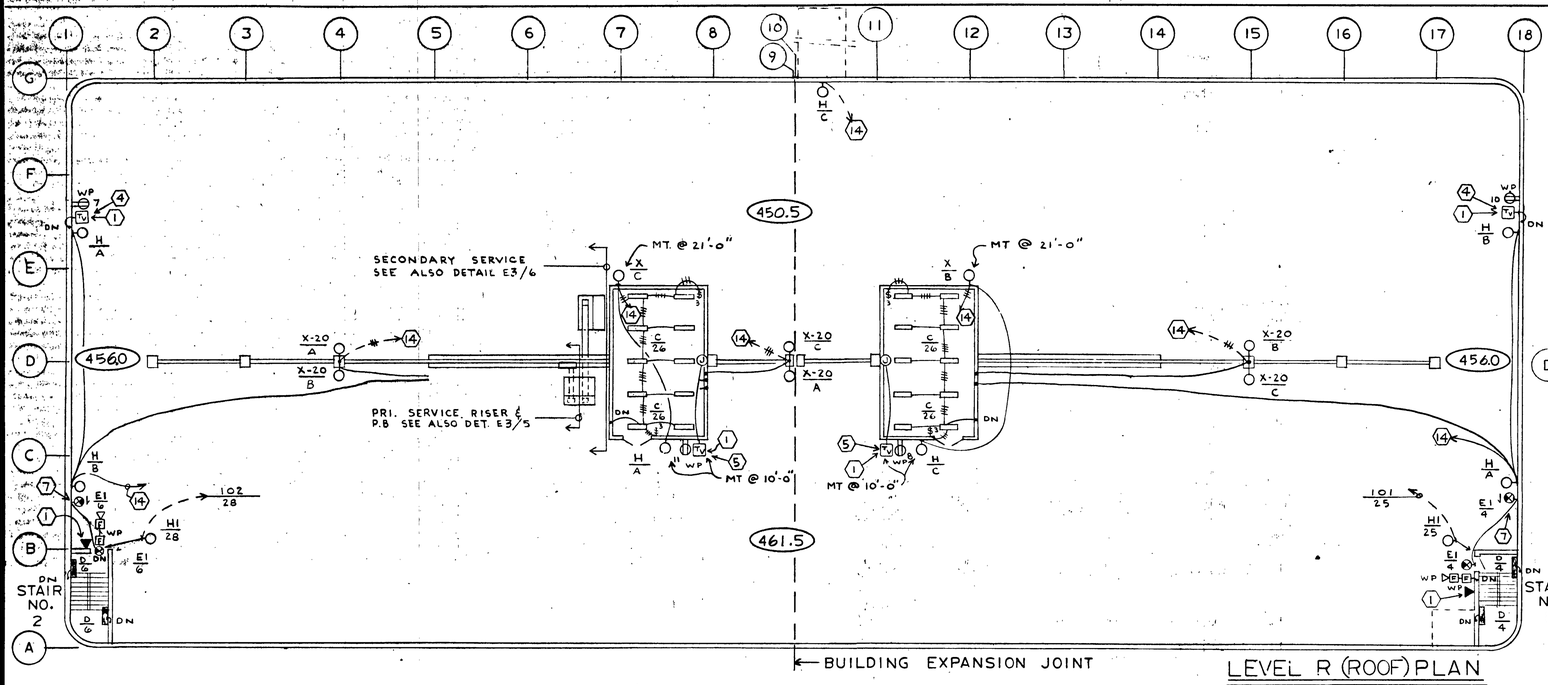
FAIRBANKS PARKING STRUCTURE

DBA-2-0130

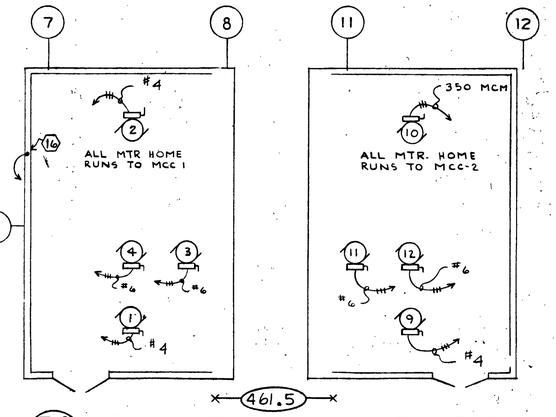
FAIRBANKS, AK.

STATE OF ALASKA 49TH ROBERT E. LOVGREN 3560-E PROFESSIONAL ENGINEER

E1



LEVEL R (ROOF) PLAN
FUTURE 3RD LEVEL

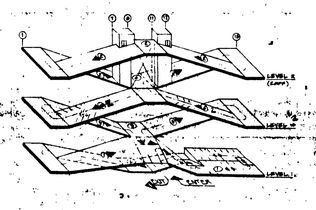


E2/1 ROOF LEVEL MECHANICAL ROOMS
SEE ALSO ROOF PLAN SCALE 1/8" = 1'-0"

ELECTRICAL NOTES CONTINUED

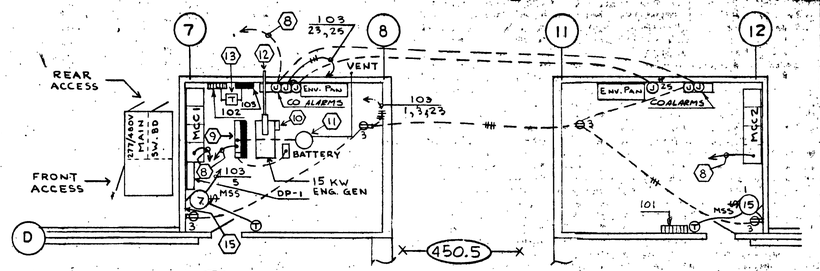
(9) JUNCTION FOX NEAR CEILING RUN 1"ø EMT CONDUIT UP TO PANEL 1C1 FOR FUTURE PRIVATE LIGHTING.

(10) 200 WATT 120V HOT WATER HEATER, RUN 3/4" - 2 # 10 TO PANEL 1C1.



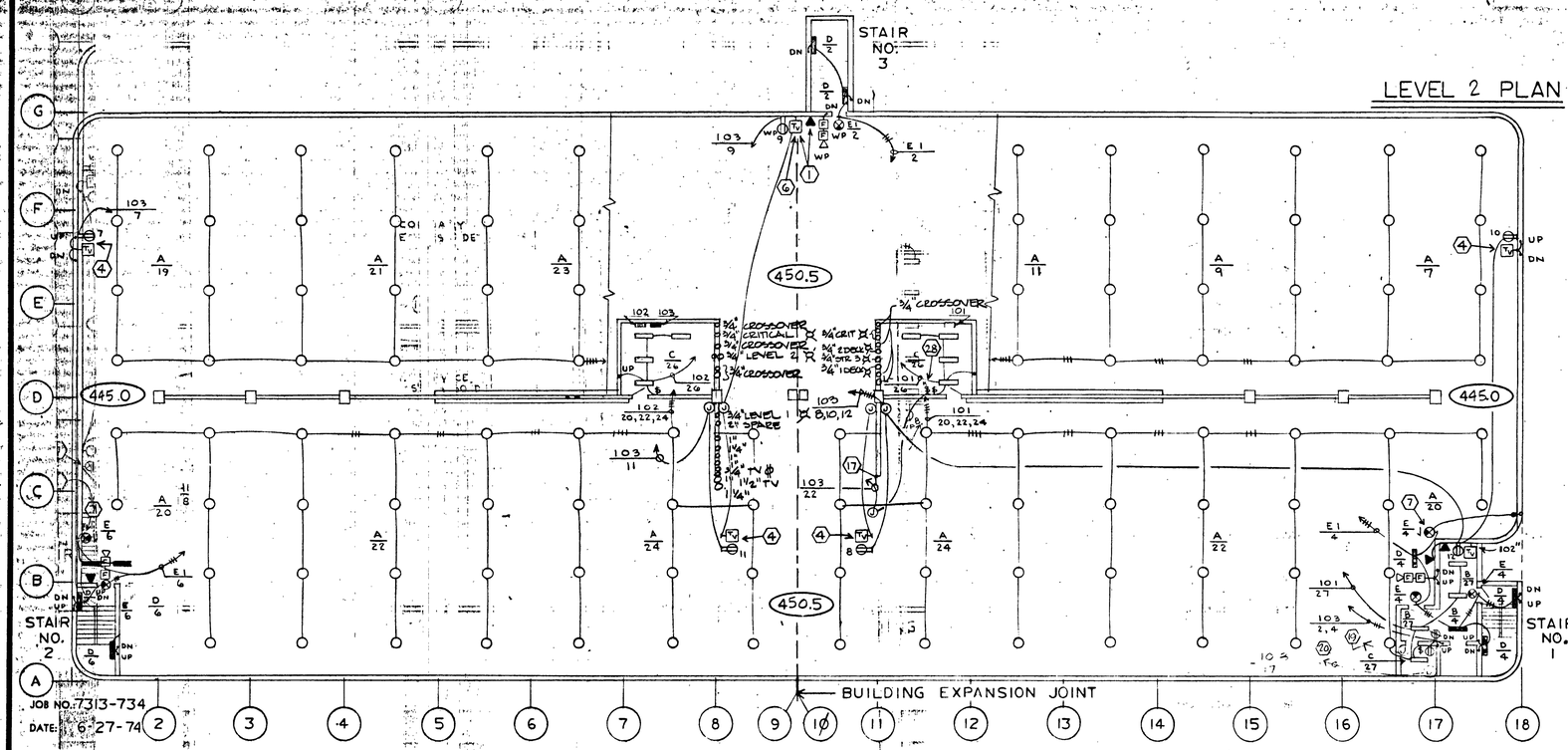
ELECTRICAL NOTES

(1) PROVIDE BLANK WEATHER PROOF COVER.
(2) OMITTED.
(3) OMITTED
(4) INSTALL OUTLET IN FACE OF BEAM RUN CONDUIT IN COLUMN OR SHEAR WALL MOUNT AT 8'-6".
(5) INSTALL CAST, FD TYPE SURFACE OUTLET ON METAL PANEL WALL.
(6) INSTALL OUTLET IN FACE OF COLUMN RUN CONDUIT IN COLUMN. MOUNT AT 8'-6".
(7) EXIT LIGHT TO BE MOUNTED ON FACE OF BEAM.
(8) 1/2" - 2# 12 DOWN TO ANNUNCIATOR RELAY PANEL IN LOWER MECHANICAL ROOM.
(9) PROVIDE FLOOR MOUNTED, UNISTRUT FRAME TO MOUNT AUTOMATIC TRANSFER SWITCH, PANELS E1 & E2, TRANSFORMER AND BATTERY CHARGER.
(10) PROVIDE DEFLECTOR ON COOLING AIR DUCT TO DEFLECT HOT AIR UP.
(11) FUEL TANK, CONNECT UP FLOAT SWITCH FOR ALARM.
(12) PROVIDE THIMBLE FOR EXHAUST PIPE THROUGH WALL.
(13) PROVIDE ANGLE IRON FRAME TO SUPPORT TRANSFORMER FROM BUILDING STRUCTURE.
(14) 3/4" - 3# 10 TO OUTDOOR LIGHTING CONTROL (SEE E4/8 FOR WIRING DETAIL).
(15) LIGHTING CONTROL CONTACTOR.
(16) PHOTO ELECTRIC CELL FOR OUTDOOR LIGHTING CONTROL MOUNT ON 1" CONDUIT STEM 24" ABOVE ROOF AND RUN 3/4" - 3# 12 TO CONTACTOR BELOW.
(17) 120 VOLT CONNECTION FOR SIGN ILLUMINATION.
(18) KEY SWITCH FOR SIGN ENGRAVE PLATE "SIGN"



E2/2 LEVEL 2 MECHANICAL ROOMS
SEE ALSO LEVEL 2 PLAN SCALE 1/8"=1'-0"

LEVEL 2 PLAN



PETER KIEWIT SONS' CO.
FAIRBANKS ALASKA
RECOMMENDED: APPROVED:
OWNER'S REP.
DATE: AS-BLT

ELECTRICAL LIGHTING, POWER AND SIGNAL
LEVEL 2 AND LEVEL R (ROOF) FLOOR PLANS

GRAY ROGERS MYERS & MORGAN
A DIVISION OF ELLERBE

JOB NO. 7313-734
DATE: 6-27-74

ARCHITECTS • ENGINEERS • SURVEYORS
601 COLLEGE ROAD, FAIRBANKS, ALASKA 99701, PHONE: 452-1241

STATE OF ALASKA
DEPT. OF PUBLIC WORKS
DIVISION OF BUILDINGS
JUNEAU ALASKA

FAIRBANKS PARKING STRUCTURE

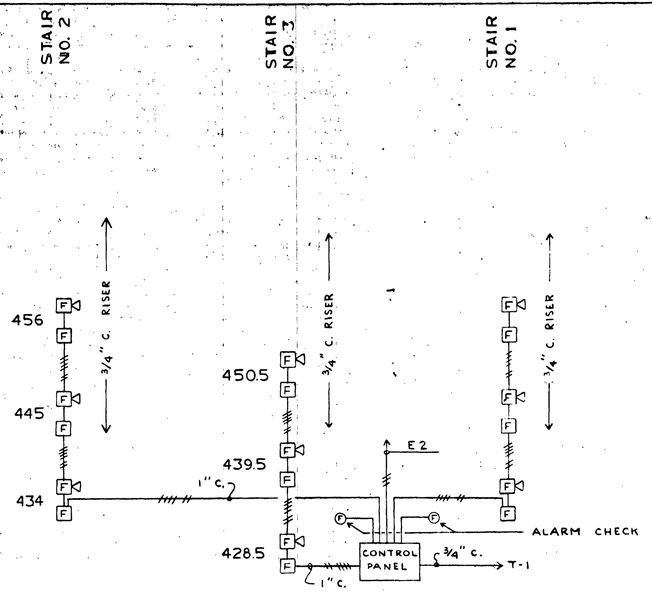
DBA - 2 - 0130

FAIRBANKS, AK.

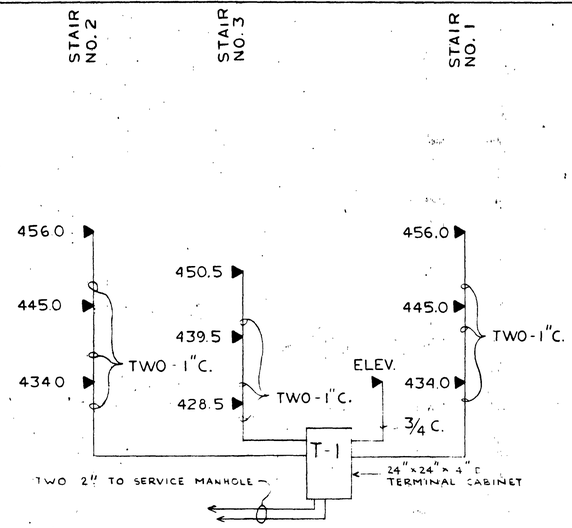
STATE OF ALASKA 49TH ROBERT E. LOVDAHL 3500-E PROFESSIONAL ENGINEER

E2

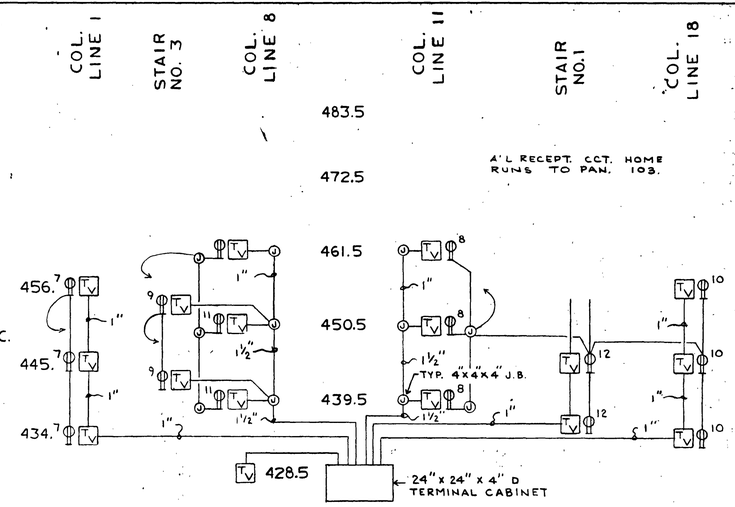
SHEET 47 OF 49



E3/3 FIRE ALARM RISER



E3/2 TELEPHONE RISER

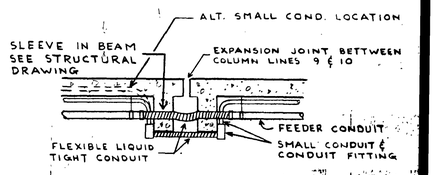


E3/1 RISER FOR CLOSED CIRCUIT TV

NOTE: ALL CONDUIT 3/4" UNLESS SHOWN OTHERWISE

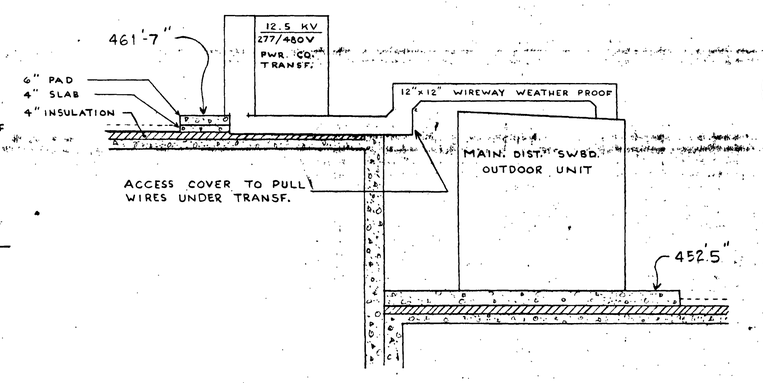
GRAY ROGERS MYERS & MORGAN

A DIVISION OF ELLERBE



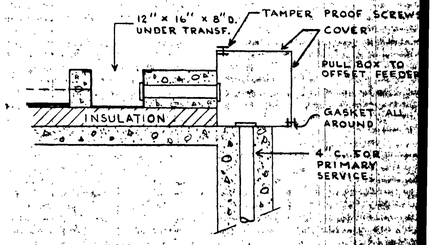
E3/4 EXPANSION JOINT DETAIL

NO SCALE



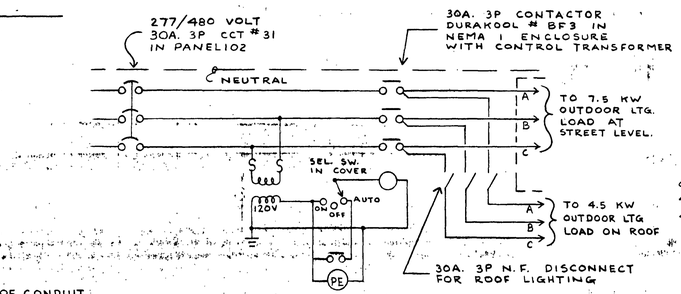
E3/6 DETAIL - SECONDARY SERVICE

NO SCALE

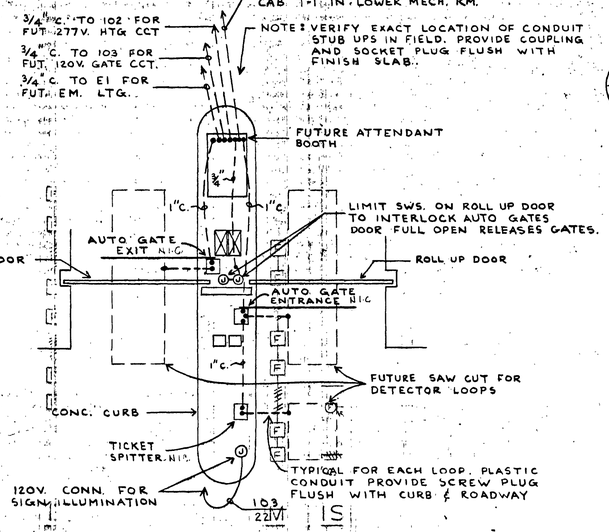


E3/5 DETAIL - PRIMARY SERVICE

NO SCALE

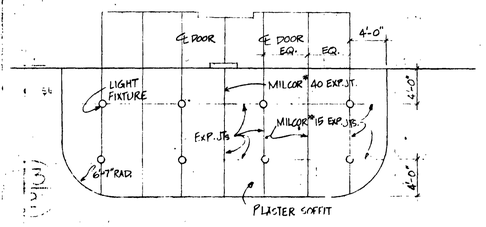


E3/8 DETAIL - OUTDOOR LIGHTING WIRING



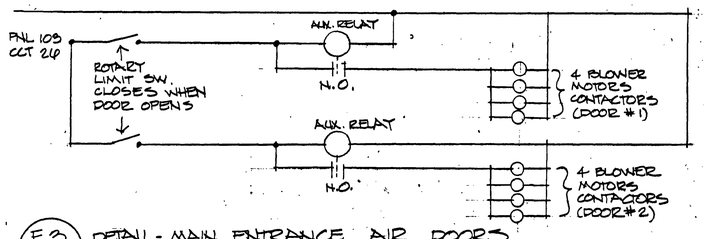
E3/7 DETAIL FUTURE PARKING GATE

SEE ARCHITECTUREAL FOR EXACT DIMENSIONS



REFLECTED SOFFIT PLAN - CANOPY

1/8" = 1'-0"



E3/9 DETAIL - MAIN ENTRANCE AIR DOORS

PETER KIEWIT SONS' CO.

FAIRBANKS — ALASKA

RECOMMENDED: Jeff Hoople

APPROVED:

DATE:

AS-B

ELECTRICAL SIGNAL RISERS AND DETAILS

JOB NO: 7313-734

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DBA - 2 - 0130

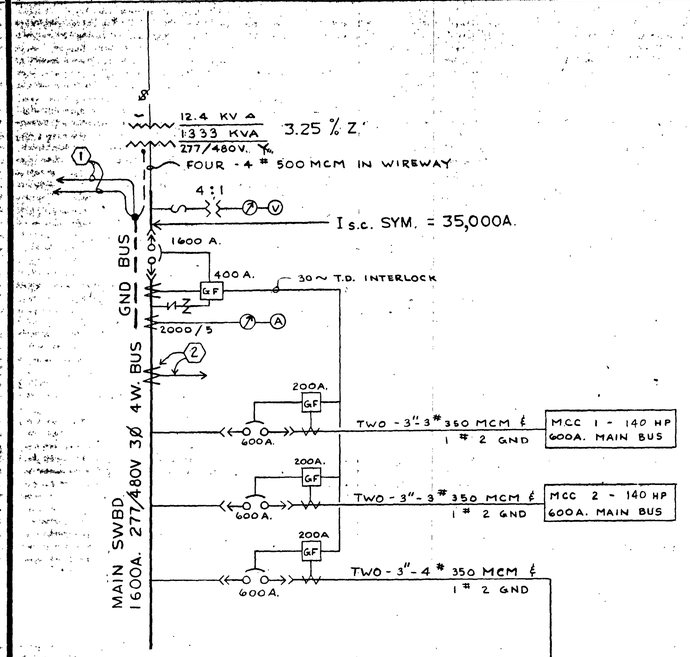
FAIRBANKS, AK.

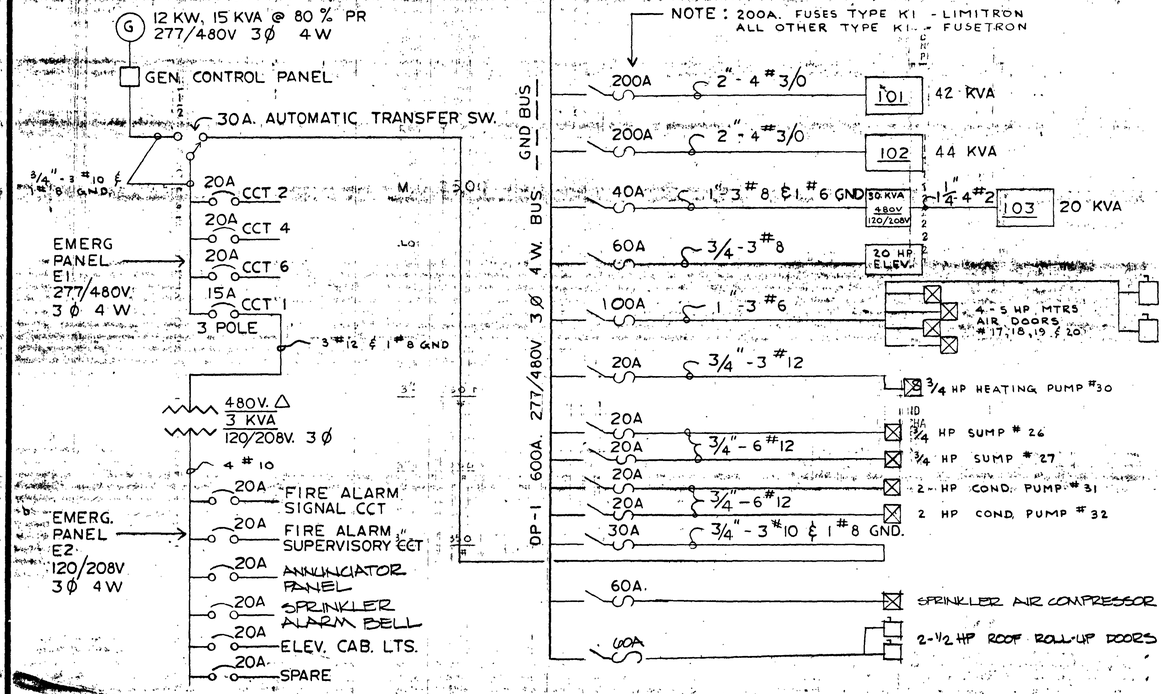
STATE OF ALASKA 49TH — HOWARD E. LOVEMARK 3560-E — PROFESSIONAL ENGINEER

E3

SHEET 48 OF 49

R 3976





PANELBOARD NO. 1C3
120 / 208 VOLTS 3 PH. 4 WIRE
MOUNTING - SURFACE

CCT. NO. PHASE	SIZE NO. OF POLES	TYPE OF LOAD	WATTS	CCT. NO. PHASE	SIZE NO. OF POLES	TYPE OF LOAD	WATTS
1A	20-1	U.H	500	2A	20-1	REC	1200
3B	20-1	REC	1000	4B	20-1	REC	1200
5C	20-1	U.H	500	6C	20-1	REC	1200
7A	20-1	REC	1200	8A	20-1	REC	1200
9B	20-1	REC	1200	10B	20-1	REC	1200
11C	20-1	REC	1200	12C	20-1	REC	1200
13A	20-1	MTR 2 HP	1000	14A	20-1	C.U.H	500
15B	20-1	C.U.H	400	16B	20-1	C.U.H	300
17C	30-1	E.W.H	2000	18C	20-1	MTR ¼	900
19A	20-1	SPC		20A	20-1	MTR 25	900
21B	20-1	SPC		22B	20-1	SIGN	600
23C	20-1	S.P. HW/WL CONTROL		24C	20-1	SPR	
25A	20-1	W.P. HW/WL CONTROL		26A	20-1	AIR DOOR CONTROL	
27B	20-1	SPC		28B	20-1	SPR	
29C	20-1	HW/WL AIR DRYER		30C	20-1	SPR	
31A	} HONEYWELL COMPRESSOR			32A		SPC	
33B				34B		SPC	
35C				36C		SPC	
37A		SPC		38A		SPC	
39B		SPC		40B		SPC	
41C		SPC		42C		SPC	

PANELBOARD NO. 1C4
277 / 480 VOLTS 3 PH. 4 WIRE
MOUNTING - SURFACE

CCT. NO. PHASE	SIZE NO. OF POLES	TYPE OF LOAD	WATTS	CCT. NO. PHASE	SIZE NO. OF POLES	TYPE OF LOAD	WATTS
1A	20-1	LTG	2400	2A	20-1	LTG	2400
3B	20-1	LTG	3600	4B	20-1	LTG	3600
5C	20-1	LTG	3600	6C	20-1	LTG	3600
7A	20-1	LTG	3600	8A	20-1	SPR	
9B	20-1	LTG	2400	10B	20-1	SPR	
11C	20-1	LTG	3600	12C	20-1	SPR	
13A	20-1	SPR		14A	20-1	SPR	
15B	20-1	SPR		16B	20-1	SPR	
17C	20-1	SPR		18C	20-1	SPR	
19A	20-1	SPR		20A	20-1	LTG	2400
21B	20-1	SPR		22B	20-1	LTG	3600
23C	20-1	SPR		24C	20-1	LTG	3600
25A	20-1	LTG	400	26A	20-1	LTG	1400
27B	20-1	LTG	1600	28B	20-1	SPR	
29C	20-1	SPR		30C	20-1	SPR	
31A	20-1	SPR		32A	20-1	SPR	
33B	20-1	SPR		34B	20-1	SPR	
35C	20-1	SPR		36C	20-1	SPR	
37A		SPC		38A		SPC	
39B		SPC		40B		SPC	
41C		SPC		42C		SPC	

PANELBOARD NO. 1C2
277/480 VOLTS 3 PH. 4 WIRE
MOUNTING - SURFACE

CCT. NO. PHASE	SIZE NO. OF POLES	TYPE OF LOAD	WATTS	CCT. NO. PHASE	SIZE NO. OF POLES	TYPE OF LOAD	WATTS
1A	20-1	LTG	2400	2A	20-1	LTG	2400
3B	20-1	LTG	3600	4B	20-1	LTG	3600
5C	20-1	LTG	3600	6C	20-1	LTG	3600
7A	20-1	LTG	3600	8A	20-1	SPR	
9B	20-1	LTG	2400	10B	20-1	SPR	
11C	20-1	LTG	3600	12C	20-1	SPR	
13A	20-1	SPR		14A	20-1	SPR	
15B	20-1	SPR		16B	20-1	SPR	
17C	20-1	SPR		18C	20-1	SPR	
19A	20-1	SPR		20A	20-1	LTG	2400
21B	20-1	SPR		22B	20-1	LTG	3600
23C	20-1	SPR		24C	20-1	LTG	3600
25A	20-1	LTG	2400	26A	20-1	LTG	1400
27B	20-1	LTG	1600	28B	20-1	LTG	400
29C	20-1	SPR		30C	20-1	SPR	
31A	20-3	OUT-	4000	32A	20-1	SPR	
B	-	SIDE	4000	34B	20-1	SPR	
C	-	LTG	4000	36C	20-1	SPR	
37A	20-1	SPR		38A		SPC	
39B	20-1	SPR		40B		SPC	
41C	20-1	SPR		42C		SPC	

ELECTRICAL NOTES

1. RUN 3/4" 1# 3/0 GROUND WIRE TO COLD WATER PIPE NEAR COLUMN 10-1/2 D IN LOWER MECHANICAL ROOM. RUN 3/4" - 1# 3/0 GROUND WIRE TO GROUND COUNTERPOISE IN FOOTING NEAR COLUMN G-8.
2. POWER COMPANY METERING EQUIPMENT. SEE SPECIFICATIONS 16230 SERVICE CONNECTIONS AND 16332 LOW VOLTAGE SWITCHBOARD.

MOTOR STARTER SCHEDULE

MTR. NO.	MOTOR DESCRIPTION	HP	VOLT	PH.	LOCATION	STARTER SIZE	STARTER LOCATION	CONTROL NOTES
1	SUPPLY FAN SF-1		460	3	N. PH.		MCC 1	11,12,15
2	SUPPLY FAN SF-2		460	3	N. PH.		MCC 1	11,12,15
3	EXHAUST FAN EF-1	30	460	3	N. PH.	3	MCC 1	1,12,13,14
4	EXHAUST FAN EF-2	30	460	3	N. PH.	3	MCC 1	1,12,13,14
7	UNIT HEATER UH-1	1/20	120	1	N. PH.	MSS	ON UNIT	7
8	OMITTED							
9	SUPPLY FAN SF-3		460	3	S PH		MCC 2	11,12,15
10	SUPPLY FAN SF-4		460	3	S PH		MCC 2	11,12,15
11	EXHAUST FAN EF-5	30	460	3	S PH	3	MCC 2	1,12,13,14
12	EXHAUST FAN EF-6	30	460	3	S PH	3	MCC 2	1,12,13,14
15	UNIT HEATER UH-2	1/20	120	1	S PH	MSS	ON UNIT	7
16	GLYCOL MAKE-UP PUMP	1/3	120	1	EQ.RM.	MSS	ON UNIT	
17	AIR DOOR NORTH	5	460	3	ENTRANCE	1	ON UNIT	2,4
18	AIR DOOR NORTH	5	460	3	ENTRANCE	1	ON UNIT	4
19	AIR DOOR SOUTH	5	460	3	ENTRANCE	1	ON UNIT	2,5
20	AIR DOOR SOUTH	5	460	3	ENTRANCE	1	ON UNIT	5
21	OMITTED							
22	AIR COMP. SPRINKLER		480	3	EQ. RM.		ON UNIT	8
25	SUMP PUMP SP-1	1/3	120	1	EQ.RM.	MSS	ON UNIT	10
26	SUMP PUMP SP-2	3/4	460	3	EQ.RM.	1	EQ.RM.	1,9
27	SUMP PUMP SP-3	3/4	460	3	EQ.RM.	1	EQ.RM.	1,9
28	UNIT HEATER UH-3	1/20	120	1	EQ.RM.	MSS	ON UNIT	7
29	UNIT HEATER UH-4	1/20	120	1	EQ.RM.	MSS	ON UNIT	7
30	HEATING PUMP CP-2	1/2	460	3	EQ.RM.	1	EQ.RM.	1,6
31	CONDENSATE PUMP	2	460	3	EQ.RM.	1	EQ.RM.	1,9
32	CONDENSATE PUMP	2	460	3	EQ.RM.	1	EQ.RM.	1,9

1. PROVIDE HAND-OFF-AUTO SELECTOR SWITCH AND PILOT IN STARTER COVER.
2. PROVIDE REMOTE HAND-OFF-AUTO SELECTOR SWITCH AND PILOT.
3. START-STOP PUSH BUTTON AND PILOT IN STARTER COVER.
4. INTERLOCK MOTOR 18 TO RUN WITH MOTOR 17. CONNECT LIMIT SWITCH IN ROLL UP DOOR TO START MOTOR 17 IN AUTO POSITION.
5. INTERLOCK MOTOR 20 TO RUN WITH MOTOR 19. CONNECT LIMIT SWITCH IN ROLL UP DOOR TO START MOTOR 19 IN AUTO POSITION.
6. CONNECT UP THERMOSTAT TO CONTROL MOTOR IN AUTO POSITION.
7. CONNECT UP THERMOSTAT AND AQUASTAT TO CONTROL MOTOR, SEE SPECIFICATION 16622.
8. CONNECT UP PRESSURE SWITCH TO CONTROL UNIT.
9. MECHANICAL ALTERNATOR AND FLOAT SWITCHES FURNISHED AND INSTALLED ON EQUIPMENT UNDER DIVISION 15. CONNECT UP ALTERNATOR AND FLOAT SWITCHES TO CONTROL MOTOR IN AUTO POSITION. ALSO CONNECT UP ADDITIONAL FLOAT SWITCH TO ALARM ANNUNCIATOR.
10. CONNECT UP FLOAT SWITCH TO CONTROL MOTOR.
11. PROVIDE ON-OFF SELECTOR SWITCH IN STARTER COVER.
12. PROVIDE TIME DELAYS TO PREVENT SIMULTANEOUS STARTING OF 4-100 HP AND 8-30 HP MOTORS AFTER A POWER FAILURE. TIME DELAY RELAYS SHALL BE ADJUSTED IN 10 SECOND STEPS TO PERMIT MOTORS TO START IN THE FOLLOWING ORDER: 3, 11, 4, 12, 5, 13, 6, 14, 1, 9, 2, 10.
13. CONNECT UP CARBON MONOXIDE DETECTOR CONTACTS TO START MOTOR IN AUTO POSITION.
14. PROVIDE TIME DELAY TO PROVIDE 5 MINUTE MINIMUM RUN TIME AFTER CONTROL CIRCUIT IS DEENERGIZED.
15. PROVIDE N.C. AUXILIARY CONTACT FOR VENTILATION FAILURE ALARM.

LIGHTING FIXTURE SCHEDULE

TYPE LETTER	MOUNTING	DESCRIPTION	MANUFACTURER	NOTE
A	SUSPENDED	CLOSE SWIVEL SUSPENDED FIXTURE FOR 1-150 WATT III PRESSURE SODIUM LAMP GE-LU150/BU	HOLOPHANE # 906-55-277	1,3
B	RECESSED	1 X 4, 2 LAMP, 40 WATT, FLUORESCENT WITH ACRYLIC LENS K-12.	SEE NOTE	1,7
C	SUSPENDED	STRIP FIXTURE FOR ONE 40 WATT FLUORESCENT LAMP. BAKED WHITE ENAMEL FINISH.	GLOBE 1201-4R	1,5
D	SURFACE	2-40 WATT FLUORESCENT LAMPS, WRAP AROUND OPAL, LEXAN PLASTIC DIFFUSER.	MARCO #1143	1,4
E	AS INDICATED	EXIT LIGHT FIXTURE WITH MULTIPLE LONG LIFE BULBS, METAL STENCIL, 6" LETTERS, DOWN LIGHT ARROWS AS INDICATED.	MILLER PATHFINDER PRESCOLITE THIN-LINE	1,2
ET	AS INDICATED	SAME AS "E" EXCEPT WEATHERPROOF CONSTRUCTION		
F	RECESSED	WEATHERPROOF DOWN LIGHT FOR ONE 150 WATT GE LU150/BU LAMP. TAMPER PROOF SCREWS, FRESNEL LENS.	MARCO MRT33-756-LU	
G	SURFACE	VAPOR TIGHT FOR 100W LAMP WITH GLASS GLOBE & SHOCK RESISTING SOCKET WITH CAST JUNCTION BOX.	MILLER AC1060SR STEBER VB150SR	
H	SURFACE	WALL BRACKET FOR ONE 150 WATT GE LU150/BU LAMP WITH TOP SHIELD.	HOLOPHANE # 600LU	
HT	SURFACE	SAME AS "H" EXCEPT WITH PHOTO-ELECTRIC CONTROL.		
I	OMITTED			
J	SURFACE	WALL BRACKET FOR ONE 150 WATT INCANDESCENT LAMP.	HOLOPHANE # 400	

NOTES:
1. FIXTURE SHALL HAVE 277 VOLT BALLAST.
2. THE NUMBER OF FACES, LOCATION OF FACES, AND DIRECTIONAL ARROWS ARE INDICATED ON THE DRAWINGS.
3. FIXTURE SHALL HAVE WIRE GUARD.
4. FIXTURE SHALL HAVE TAMPER PROOF SCREWS.
5. CHAIN SUSPEND FIXTURE TO CLEAR MECHANICAL EQUIPMENT. PROVIDE 2 WIRE PLUS GROUND HEAVY DUTY TYPE S CORD CONNECTION TO CEILING OUTLET.
6. IF GE LU150/BU LAMP AND BALLAST NOT AVAILABLE IN FIXTURE AT TIME OF INSTALLATION, PROVIDE 250 WATT METAL HALIDE LAMP AND CW BALLAST OR PROVIDE A SUBSTITUTE FIXTURE APPROVED BY THE ARCHITECT.
7. TROFFER FIXTURES SHALL BE SUITABLE FOR RECESSING INTO CEILING TYPES AS INDICATED IN THE ROOM FINISH SCHEDULE AND VERIFIED BY THE CONTRACTOR BEFORE ORDERING. FIXTURE SHALL HAVE STURDY FRAMED DIFFUSER PANELS FOR HINGING ON EITHER SIDE AND WITH UNOBTRUSIVE POSITIVE CATCHES, LENS HOLDERS DESIGNED FOR MINIMUM STRAIN ON THE DIFFUSER, ALL METAL PARTS BONDERIZED AGAINST CORROSION AND FINISHED IN A DURABLE WHITE BAKED ENAMEL. FIXTURES SHALL BE ALL ONE MANUFACTURE AND SHALL BE AS MANUFACTURED BY DAYBRITE, MILLER, LIGHTOLIER, GLOBE.

K		2 - 100 WATT LAMPS 12" x 12" x 5"	KENALL # 3800

PETER KIEWIT SONS' CO.
FAIRBANKS ALASKA
RECOMMENDED: CONTRACTOR'S REP.
APPROVED: OWNER'S REP.
DATE: AS-BLT

GRAY ROGERS MYERS & MORGAN
A DIVISION OF ELLERBE

JOB NO. 7315-734
DATE: 6-27-74

E4 / 1 ONE LINE POWER DIAGRAM

ELECTRICAL - PANELBOARD SCHEDULES, ONE LINE DIAGRAM, MISCELLANEOUS

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JUNEAU ALASKA

FAIRBANKS PARKING STRUCTURE

DBA - 2 - 0130

FAIRBANKS, AK.

STATE OF ALASKA 49TH ROBERT E. LOVEJOY 3500-E PROFESSIONAL ENGINEER

E4

SHEET 40 OF 42