

**UNIVERSITY OF KENTUCKY**  
**STEAM DISTRIBUTION**

**INTERCONNECTION OF STEAM PLANTS**

**PROJECT NO. 12-S**

**LEXINGTON, KENTUCKY CAMPUS**

**PROCTOR-DAVIS-RAY CONSULTING ENGINEERS INC.**

**915 SOUTH LIMESTONE STREET**

**LEXINGTON, KENTUCKY**

**SITE SURVEY**  
**L. E. GREGG & ASSOCIATES**

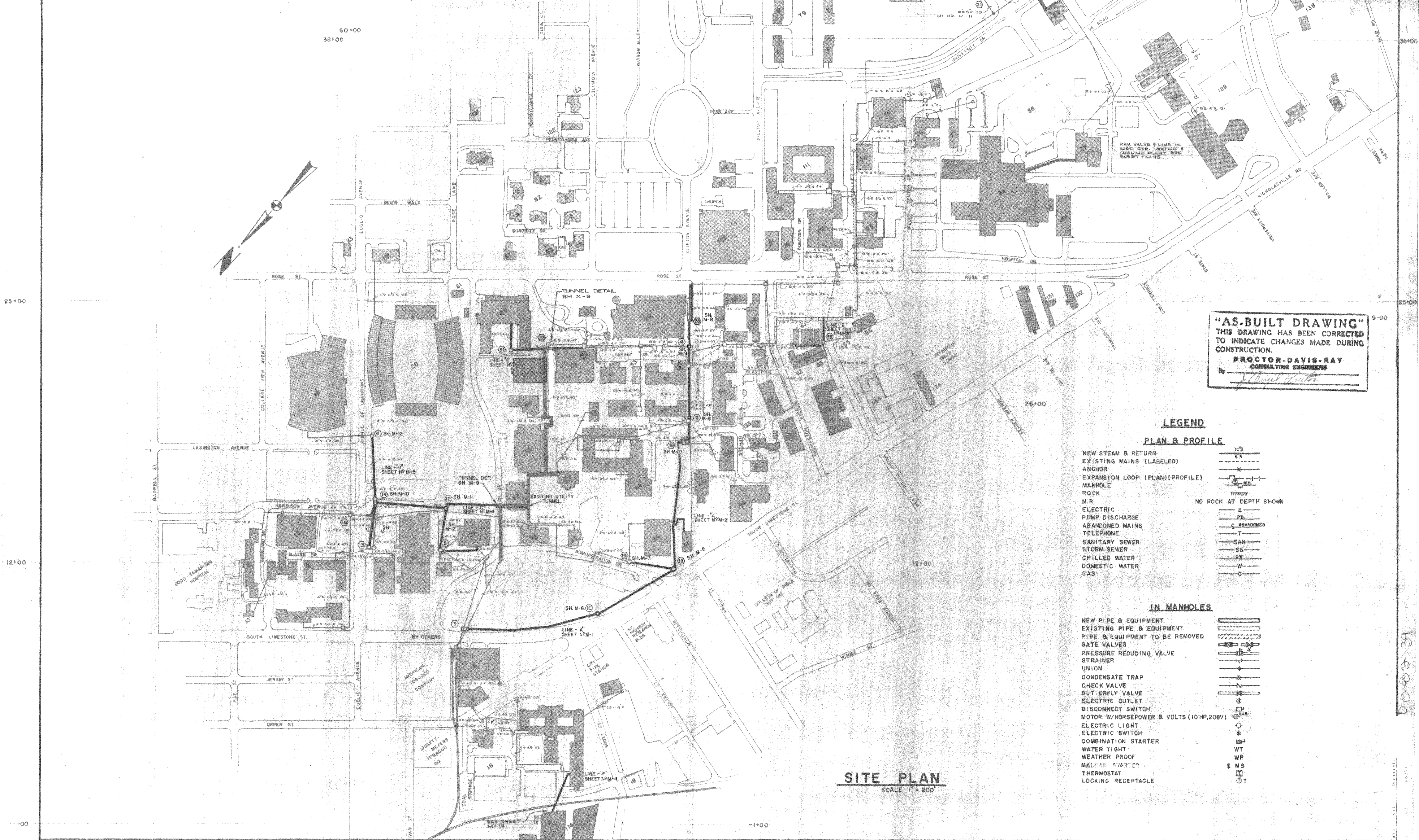
**STRUCTURAL**  
**WHITE, WALKER & MCREYNOLDS**

69  
A-2

100 82 30

U-539





**"AS-BUILT DRAWING"**  
 THIS DRAWING HAS BEEN CORRECTED  
 TO INDICATE CHANGES MADE DURING  
 CONSTRUCTION.  
**PROCTOR-DAVIS-RAY**  
 CONSULTING ENGINEERS  
*J. Davis*

**LEGEND**

- PLAN & PROFILE**
- NEW STEAM & RETURN 10'S
  - EXISTING MAINS (LABELED) 6'R
  - ANCHOR X
  - EXPANSION LOOP (PLAN)(PROFILE) (---) (---)
  - MANHOLE M.H.
  - ROCK ROCK
  - N.R. NO ROCK AT DEPTH SHOWN
  - ELECTRIC E
  - PUMP DISCHARGE P.D.
  - ABANDONED MAINS C
  - TELEPHONE T
  - SANITARY SEWER SAN
  - STORM SEWER SS
  - CHILLED WATER CW
  - DOMESTIC WATER W
  - GAS G

- IN MANHOLES**
- NEW PIPE & EQUIPMENT NEW PIPE & EQUIPMENT
  - EXISTING PIPE & EQUIPMENT EXISTING PIPE & EQUIPMENT
  - PIPE & EQUIPMENT TO BE REMOVED PIPE & EQUIPMENT TO BE REMOVED
  - GATE VALVES GATE VALVES
  - PRESSURE REDUCING VALVE PRESSURE REDUCING VALVE
  - STRAINER STRAINER
  - UNION UNION
  - CONDENSATE TRAP CONDENSATE TRAP
  - CHECK VALVE CHECK VALVE
  - BUTTERFLY VALVE BUTTERFLY VALVE
  - ELECTRIC OUTLET ELECTRIC OUTLET
  - DISCONNECT SWITCH DISCONNECT SWITCH
  - MOTOR W/HORSEPOWER & VOLTS (10 HP, 208V) MOTOR W/HORSEPOWER & VOLTS (10 HP, 208V)
  - ELECTRIC LIGHT ELECTRIC LIGHT
  - ELECTRIC SWITCH ELECTRIC SWITCH
  - COMBINATION STARTER COMBINATION STARTER
  - WATER TIGHT WATER TIGHT
  - WEATHER PROOF WEATHER PROOF
  - MANUAL STARTER MANUAL STARTER
  - THERMOSTAT THERMOSTAT
  - LOCKING RECEPTACLE LOCKING RECEPTACLE

**SITE PLAN**  
 SCALE 1" = 200'

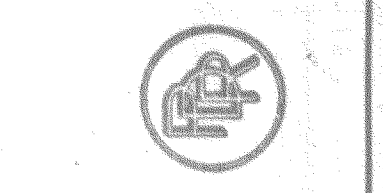
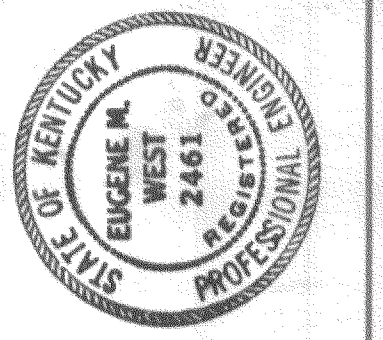
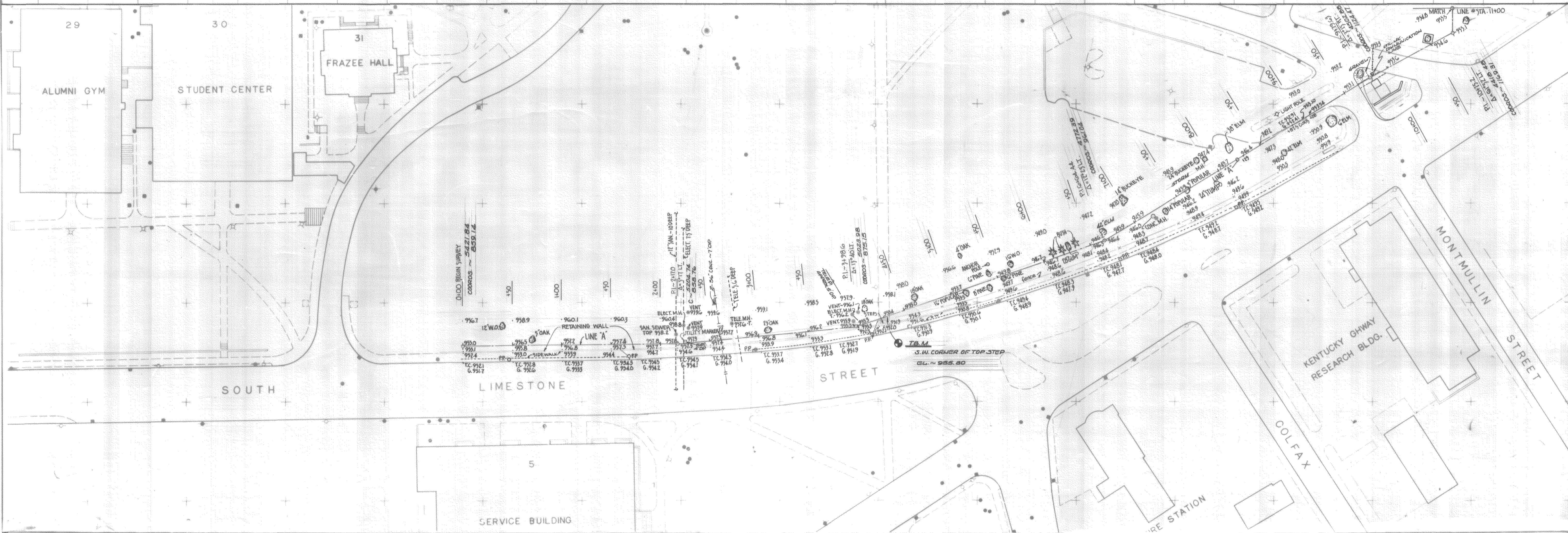
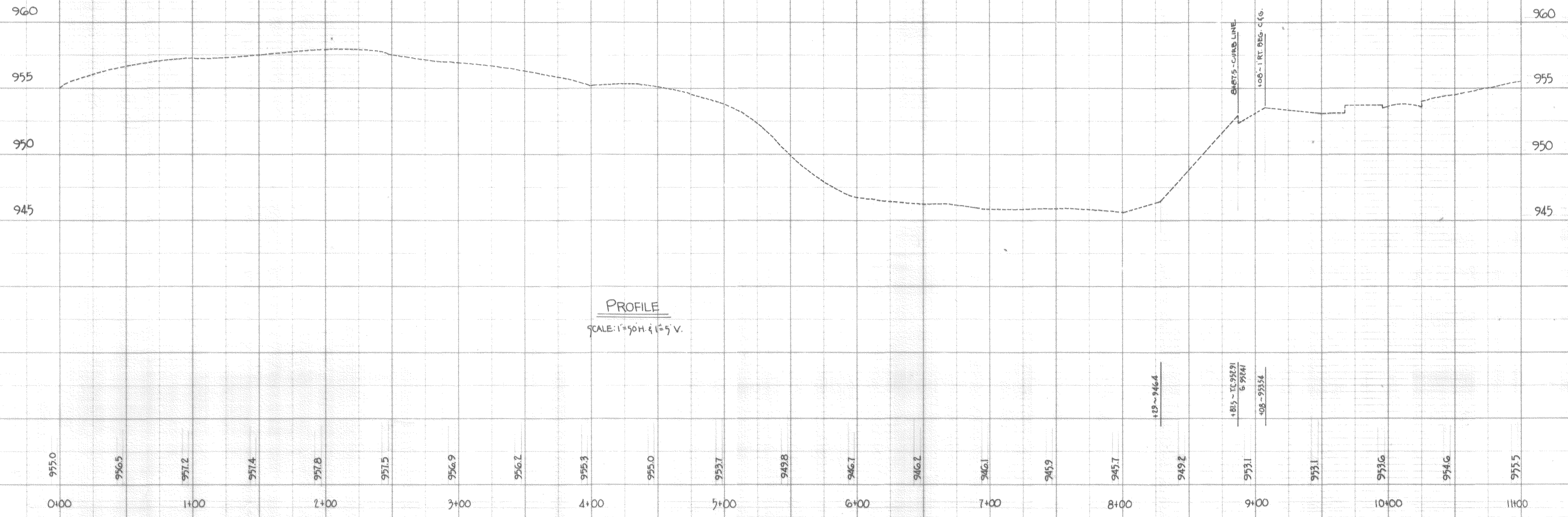
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LINE "A"  
SUBSURFACE INVESTIGATION

STATION	DEPTH OF BORING (FT.)	REMARKS
0+10	9.8	REFUSAL
0+90.4	4.4	REFUSAL
1+00.2	2.1	REFUSAL
1+50	2.8	REFUSAL
2+00	3.4	REFUSAL
3+00	7.4	REFUSAL
3+47	6.3	REFUSAL
3+50	1.8	REFUSAL
3+92.8	6.0	REFUSAL
4+46	5.3	REFUSAL
4+50	2.8	REFUSAL
4+84	4.9	REFUSAL
4+89	1.2	REFUSAL
5+50	4.5	REFUSAL
6+00	10.0	NO ROCK
6+90	8.2	REFUSAL
6+64.44	8.4	REFUSAL
7+00	7.8	REFUSAL
7+50	8.4	REFUSAL
8+00	8.0	REFUSAL
8+90	10.0	NO ROCK
9+00 (1 1/2 RT.)	11.5	NO ROCK
10+52.2 (1 RT.)	14.5	NO ROCK
10+99.5	10.0	NO ROCK



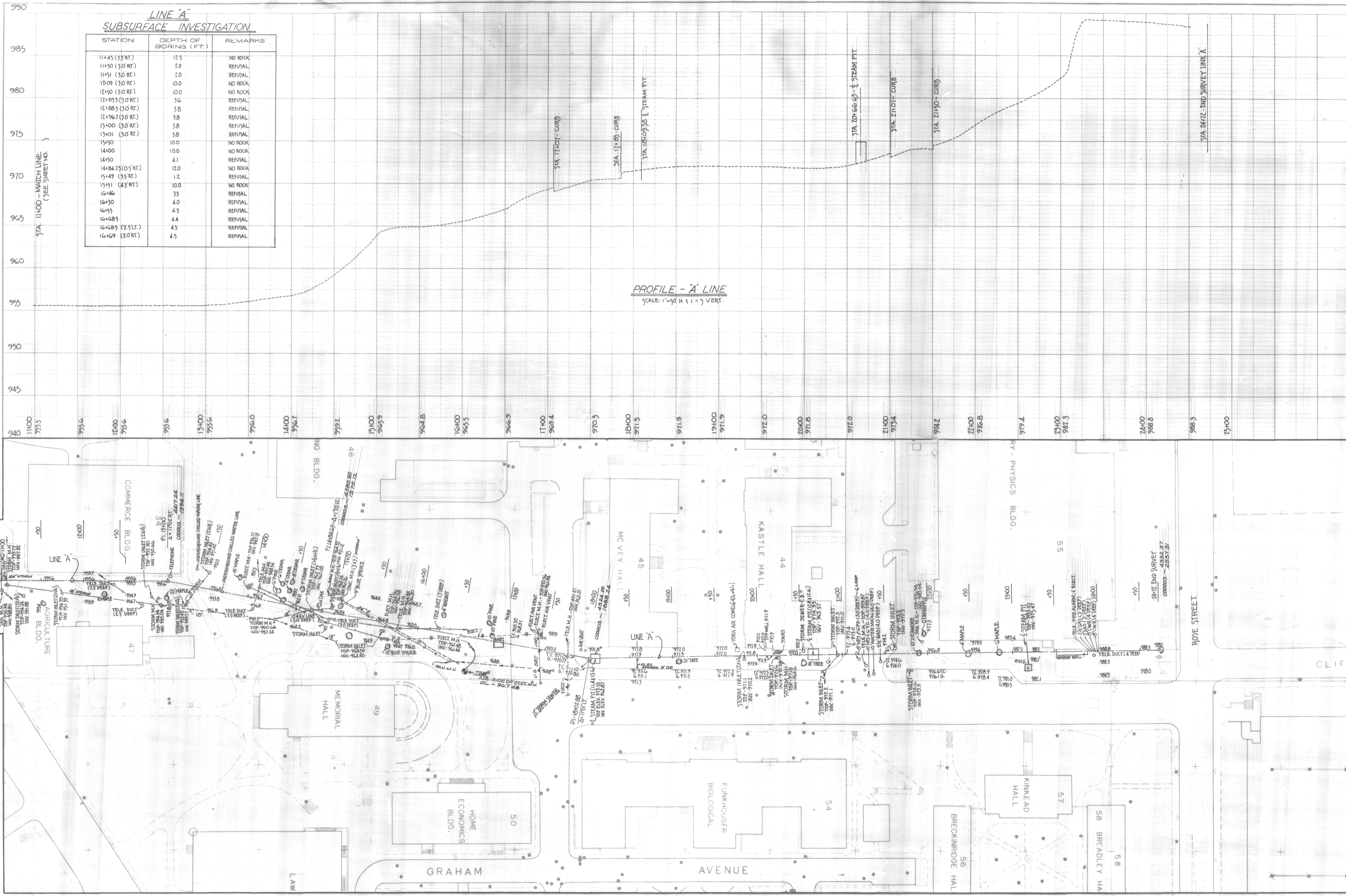
PROCTOR - DAVIS - RAY  
CONSULTING ENGINEERS, INC.  
LEXINGTON, KENTUCKY

UNIVERSITY OF KENTUCKY  
STEAM DISTRIBUTION  
SITE SURVEY & SUBSURFACE INVESTIGATION  
BY  
L.E. GREGG & ASSOCIATES - CONSULTING ENGINEERS - LEXINGTON, KY  
LINE "A" - 0+00 TO 11+00 - PARALLEL TO S. LIMESTONE

project no:	drawn:	checked:	scale:
date:	job no:	horz:	vert:
revisions:			

sheet no. **SS-1** of **11**  
U-5397

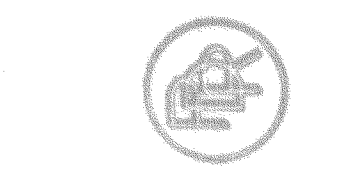
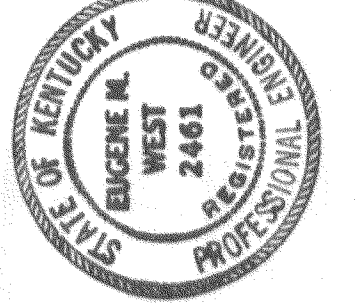




**LINE 'A'**  
**SUBSURFACE INVESTIGATION**

STATION	DEPTH OF BORING (FT.)	REMARKS
11+45 (3.5 RT.)	12.5	NO ROCK
11+50 (3.0 RT.)	2.0	REFUSAL
11+51 (3.0 RT.)	1.0	REFUSAL
11+09 (3.0 RT.)	10.0	NO ROCK
12+90 (3.0 RT.)	10.0	NO ROCK
12+85.5 (3.0 RT.)	7.6	REFUSAL
12+88.5 (3.0 RT.)	3.8	REFUSAL
12+96.7 (3.0 RT.)	3.8	REFUSAL
13+00 (3.0 RT.)	3.8	REFUSAL
13+01 (3.0 RT.)	3.8	REFUSAL
13+50	10.0	NO ROCK
14+00	10.0	NO ROCK
14+50	4.1	REFUSAL
14+84.23 (0.5 RT.)	12.0	NO ROCK
15+49 (3.5 RT.)	1.2	REFUSAL
15+51 (4.5 RT.)	10.0	NO ROCK
16+46	3.5	REFUSAL
16+50	4.0	REFUSAL
16+95	4.3	REFUSAL
16+85	4.4	REFUSAL
16+68.5 (2.5 LT.)	4.5	REFUSAL
16+69 (2.0 RT.)	4.5	REFUSAL

**PROFILE - 'A' LINE**  
SCALE: 1" = 50' H & 1" = 5' VERT.

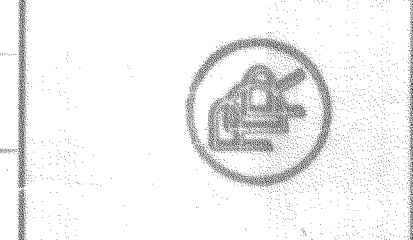
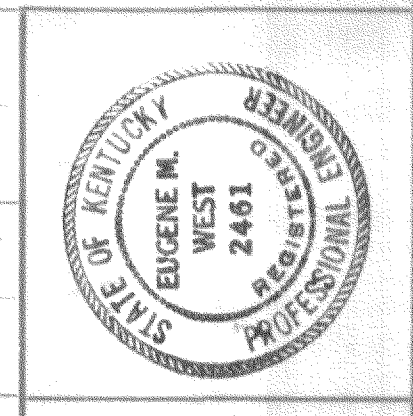
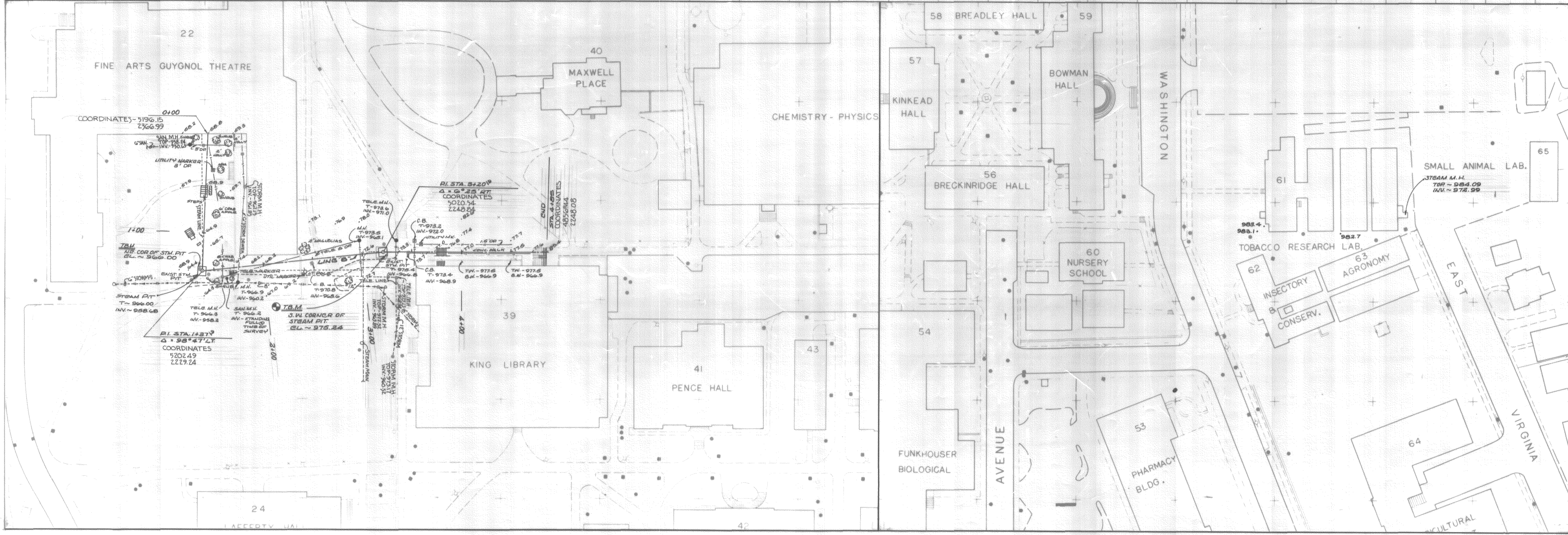
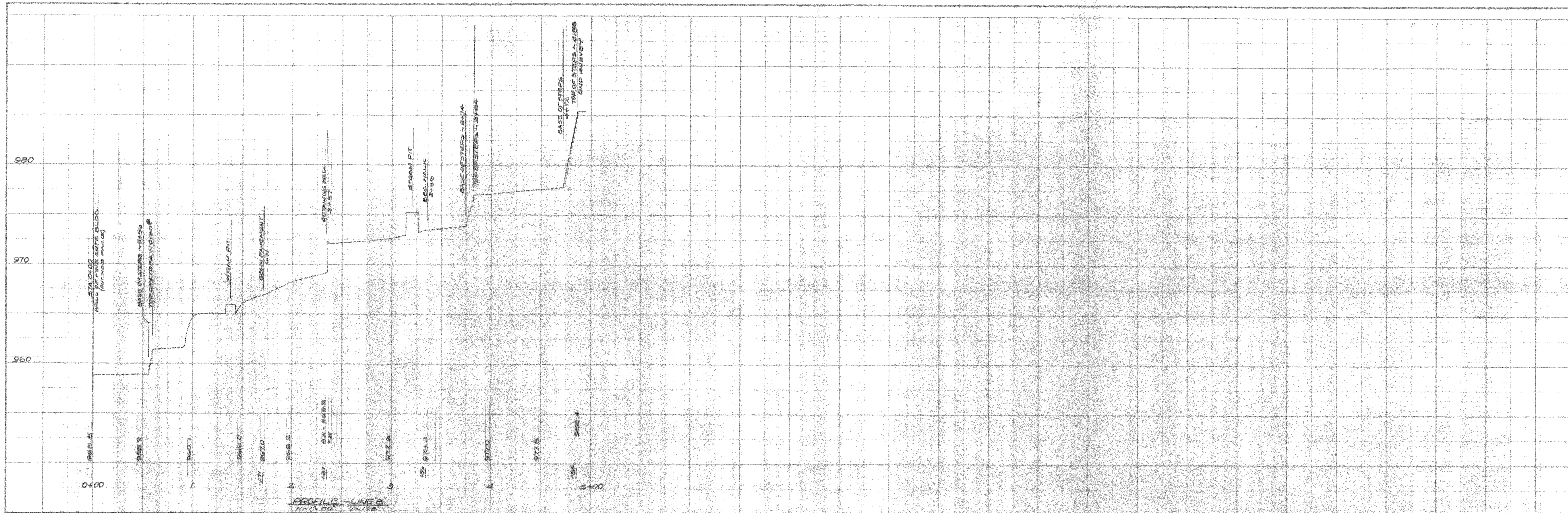


**PROCTOR - DAVIS - RAY**  
CONSULTING ENGINEERS, INC.  
LEXINGTON, KENTUCKY

UNIVERSITY OF KENTUCKY  
STEAM DISTRIBUTION  
SITE SURVEY & SUBSURFACE INVESTIGATION  
BY  
LE GREGG & ASSOCIATES - CONSULTING ENGINEERS - LEXINGTON, KY.  
LINE 'A' - 11+00 TO 24+72 - S. LIMESTONE TO ROSE ST.

sheet no	SS-2
project no:	
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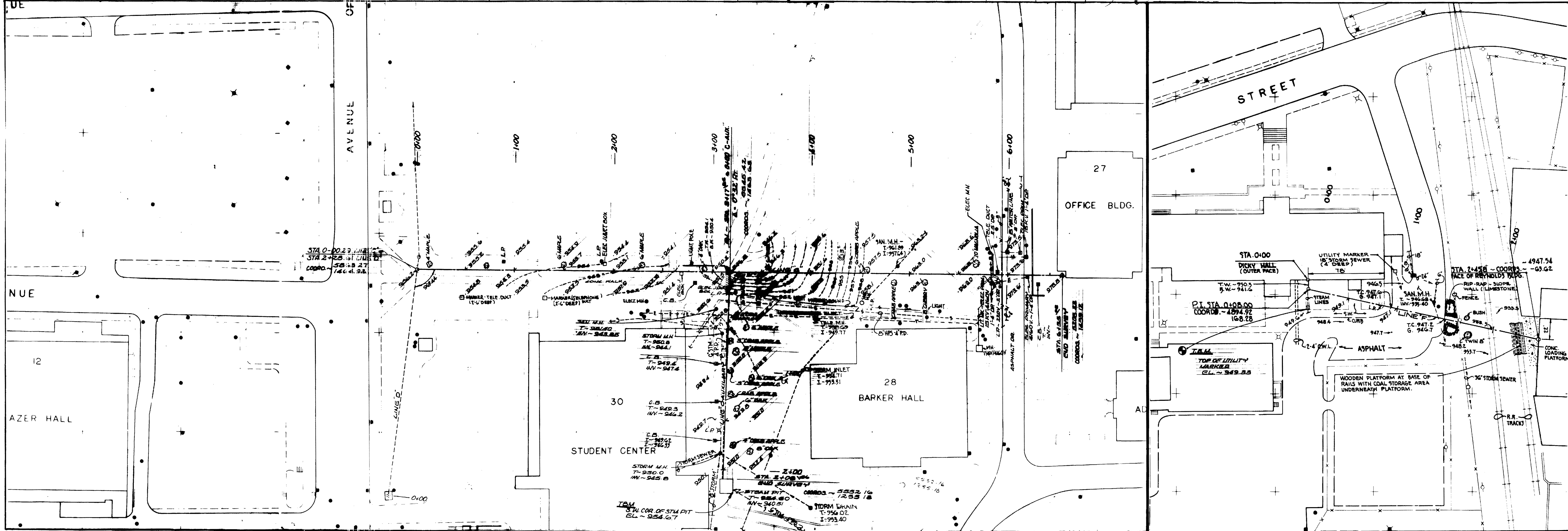
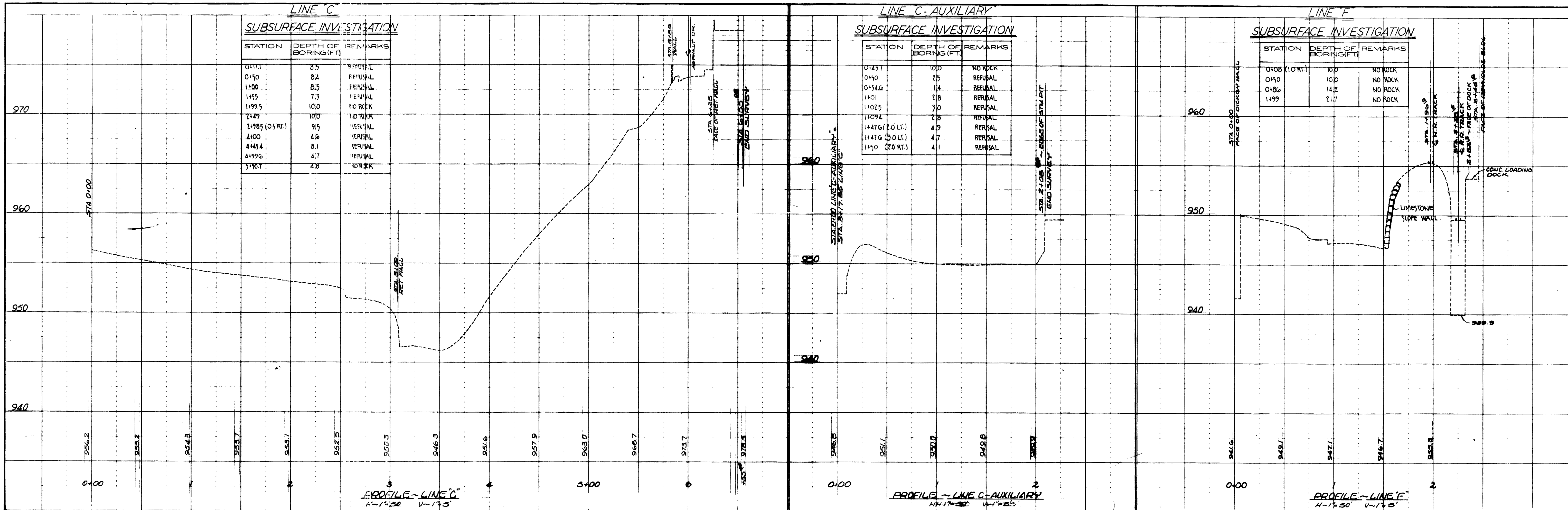


PROCTOR - DAVIS - RAY  
CONSULTING ENGINEERS, INC.  
LEXINGTON, KENTUCKY

UNIVERSITY OF KENTUCKY  
STEAM DISTRIBUTION  
SITE SURVEY & SUBSURFACE INVESTIGATION  
BY  
L.E. GREGG & ASSOCIATES - CONSULTING ENGINEERS - LEXINGTON, KY.  
LINE "B" - FINE ARTS BLDG. TO KING LIBRARY

sheet no:	SS-3	of	1
project no:		date:	
job no:		revisions:	
drawn:		checked:	
scale:		horz:	
vert:			





**PROCTOR - DAVIS - RAY**  
CONSULTING ENGINEERS, INC.  
LEXINGTON, KENTUCKY

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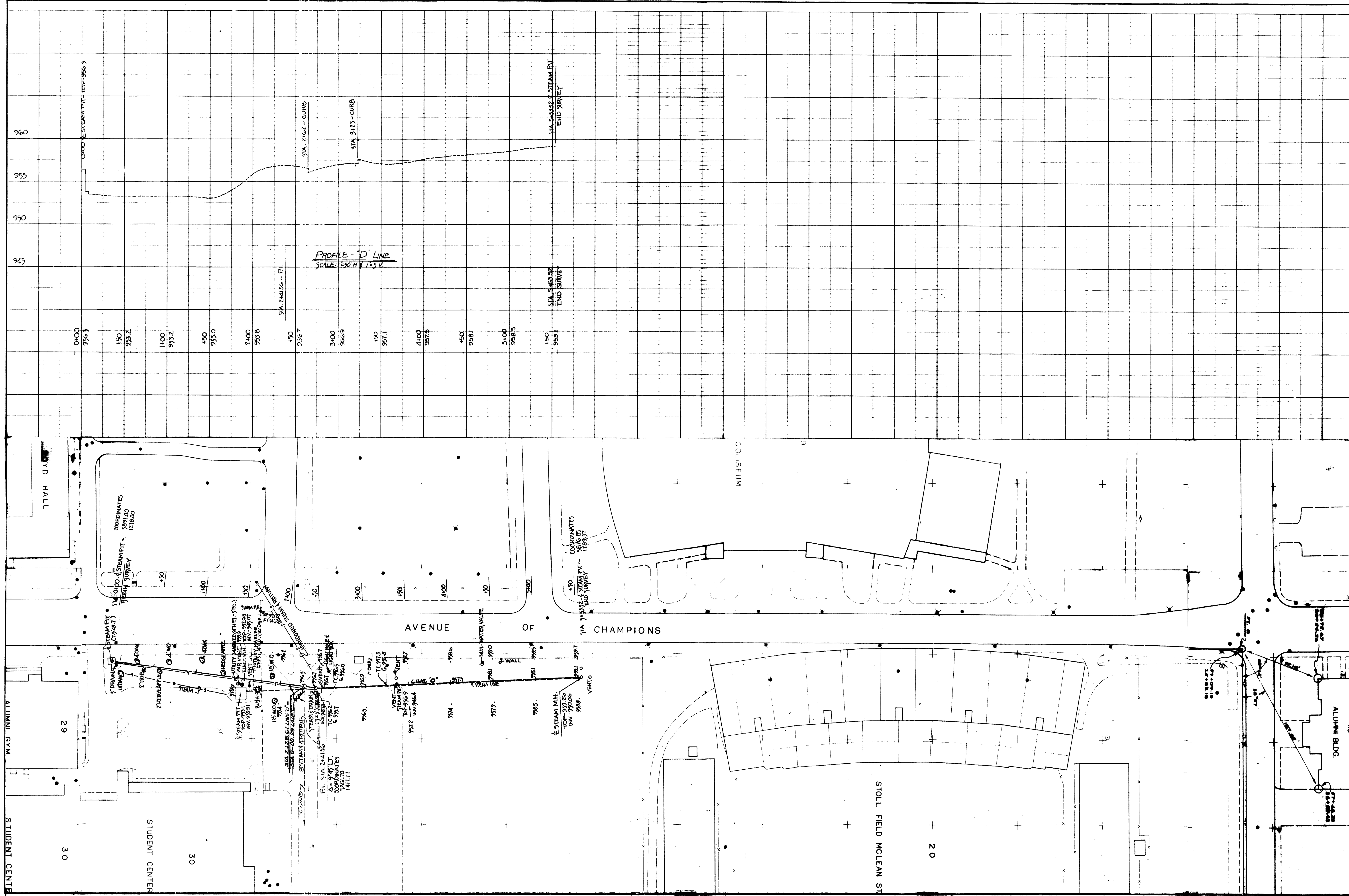
UNIVERSITY OF KENTUCKY  
STEAM DISTRIBUTION  
SITE SURVEY & SUBSURFACE INVESTIGATION  
BY  
L.E. GREGG & ASSOCIATES - CONSULTING ENGINEERS - LEXINGTON, KY.  
LINE C - AVENUE OF CHAMPIONS TO OFFICE BLDG.  
LINE C-AUX - STA 3+785 LINE C TO STUDENT BLDG.  
LINE F - DICKEY HALL TO REYNOLDS BUILDING

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date:	checked:
revisions:	scale:
	horz:
	vert:

SS-4

sheet no. 50 @ 24" x 36"





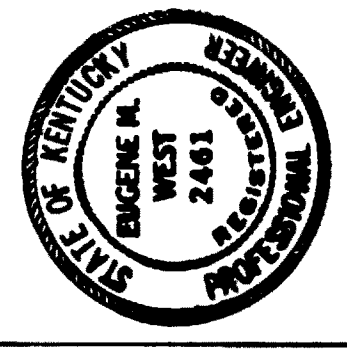
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**SS-5**  
 of

project no:  
 date:  
 revisions

drawn:  
 checked:  
 scale  
 horiz:  
 vert:

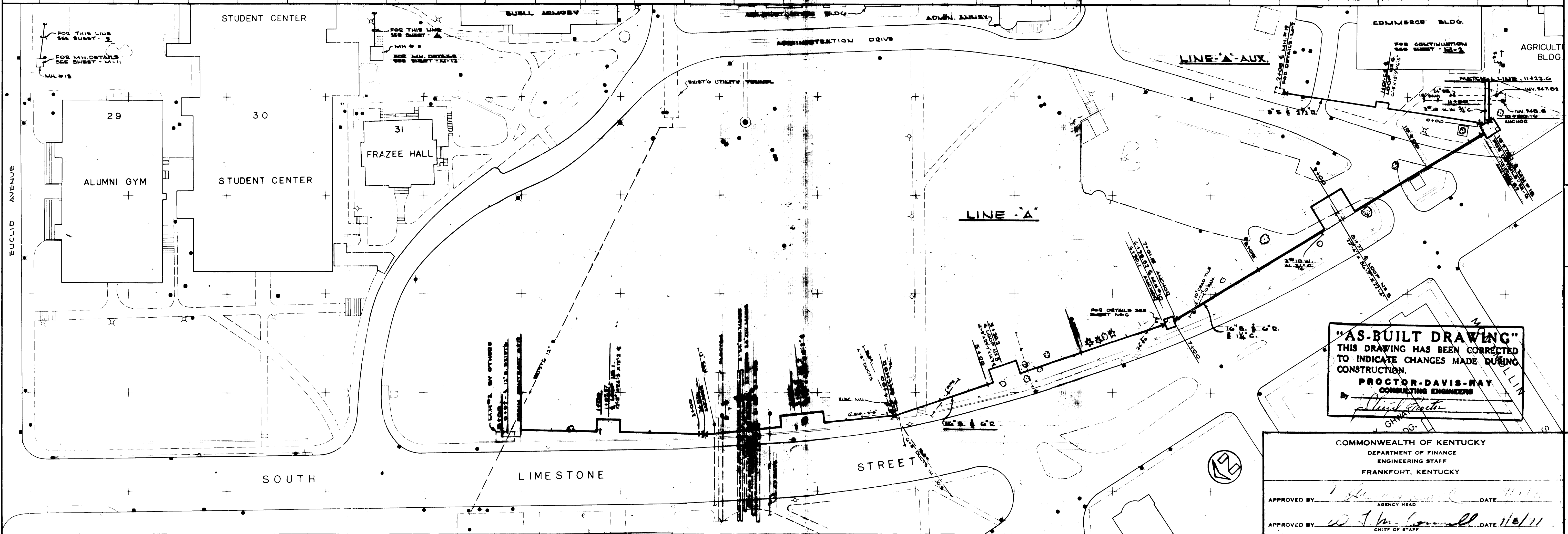
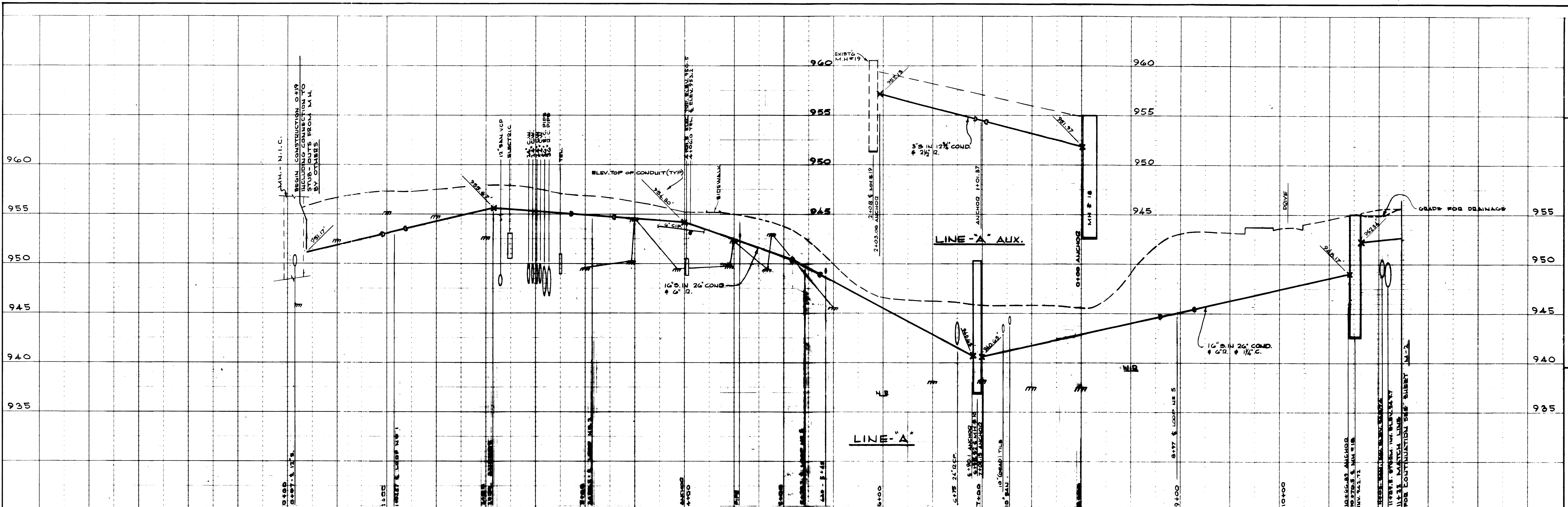
UNIVERSITY OF KENTUCKY  
 STEAM DISTRIBUTION  
 SITE SURVEY & SUBSURFACE INVESTIGATION  
 BY  
 L.E. GREGG & ASSOCIATES - CONSULTING ENGINEERS - LEXINGTON, KY  
 LINE 'D' - PARALLEL TO AVENUE OF CHAMPIONS

PROCTOR - DAVIS - RAY  
 CONSULTING ENGINEERS, INC.  
 LEXINGTON, KENTUCKY



RAY





**"AS-BUILT DRAWING"**  
 THIS DRAWING HAS BEEN CORRECTED  
 TO INDICATE CHANGES MADE DURING  
 CONSTRUCTION.  
**PROCTOR-DAVIS-RAY**  
 CONSULTING ENGINEERS  
 By *[Signature]*

COMMONWEALTH OF KENTUCKY  
 DEPARTMENT OF FINANCE  
 ENGINEERING STAFF  
 FRANKFORT, KENTUCKY

APPROVED BY *[Signature]* AGENCY HEAD DATE *11/10/11*  
 APPROVED BY *[Signature]* CHIEF OF STAFF DATE *11/10/11*

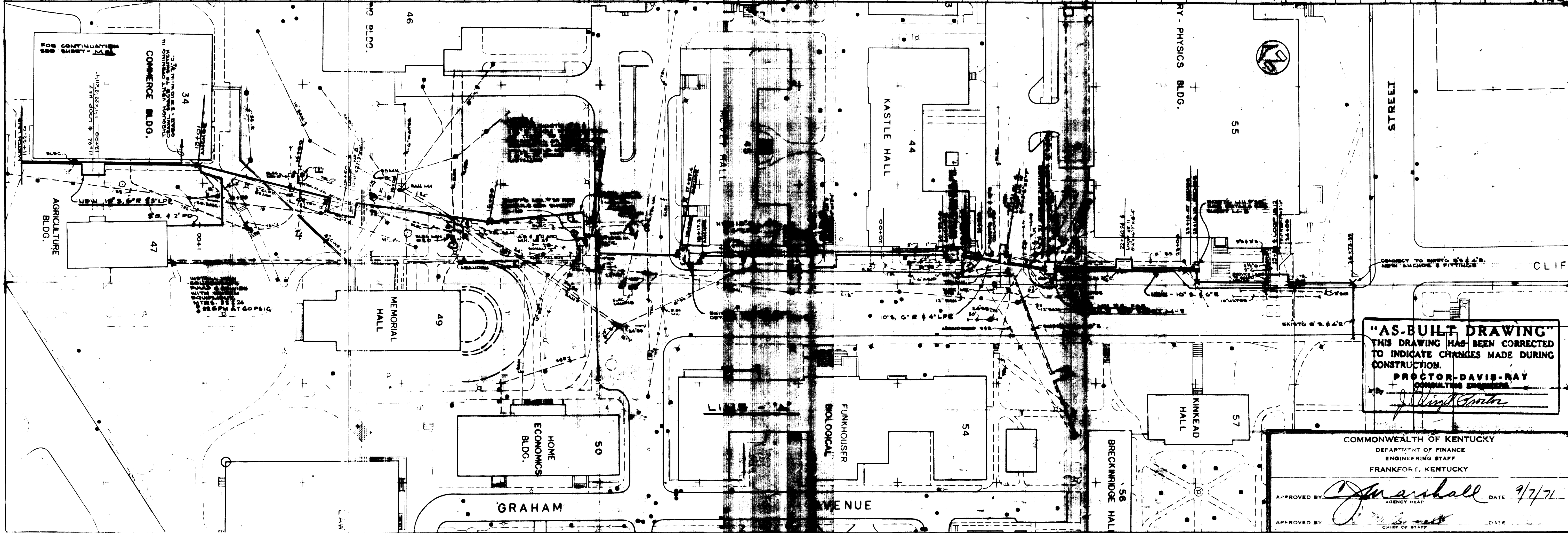
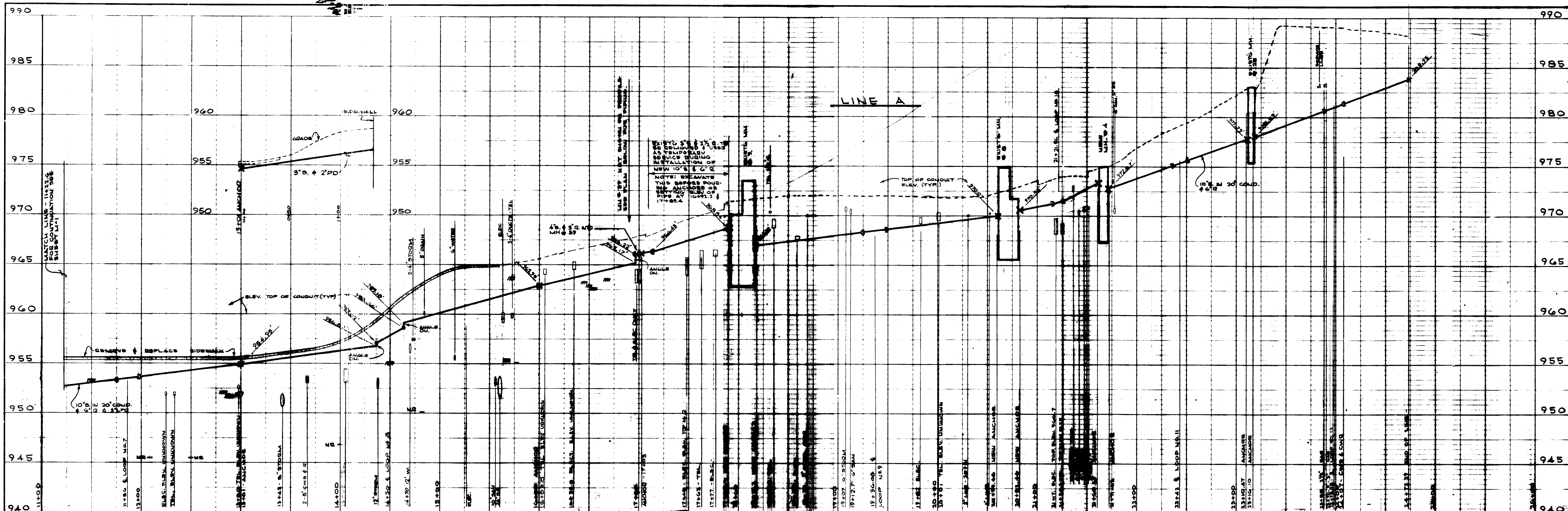
**PROCTOR-DAVIS-RAY**  
 CONSULTING ENGINEERS INC  
 LEXINGTON KENTUCKY

UNIVERSITY OF KENTUCKY  
 DISTRIBUTION  
 STEAM INTERCONNECTION  
 OF PLANTS  
 LEXINGTON, KENTUCKY  
 STEAM & RETURN MAINS - LIMESTONE STREET - LINE - A

project no: 12.5  
 date: AUG. 23. 1971. job no: 7033  
 drawn: PCG & Deb  
 checked: JVP  
 scale  
 horz: 1" = 50'  
 vert: 1" = 5'

sheet no  
**M-1**  
 of 15





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UNIVERSITY OF KENTUCKY  
STEAM DISTRIBUTION  
INTERCONNECTION  
STEAM & RETURN MAINS, LIMESTONE & DOSE STREETS  
LEXINGTON, KENTUCKY

PROCTOR - DAVIS - RAY  
CONSULTING ENGINEERS, INC.  
LEXINGTON, KENTUCKY

project no: 12.9

date: 11/23/71

sheet no: 12.9

drawn: pcd & ocb

checked: jvp

scale: 1" = 10'

date: 11/23/71

job no: 7033

revisions:

approved by: *J. Marshall* DATE: 9/7/71

approved by: *J. Marshall* DATE: 9/7/71

COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF FINANCE  
ENGINEERING STAFF  
FRANKFORT, KENTUCKY

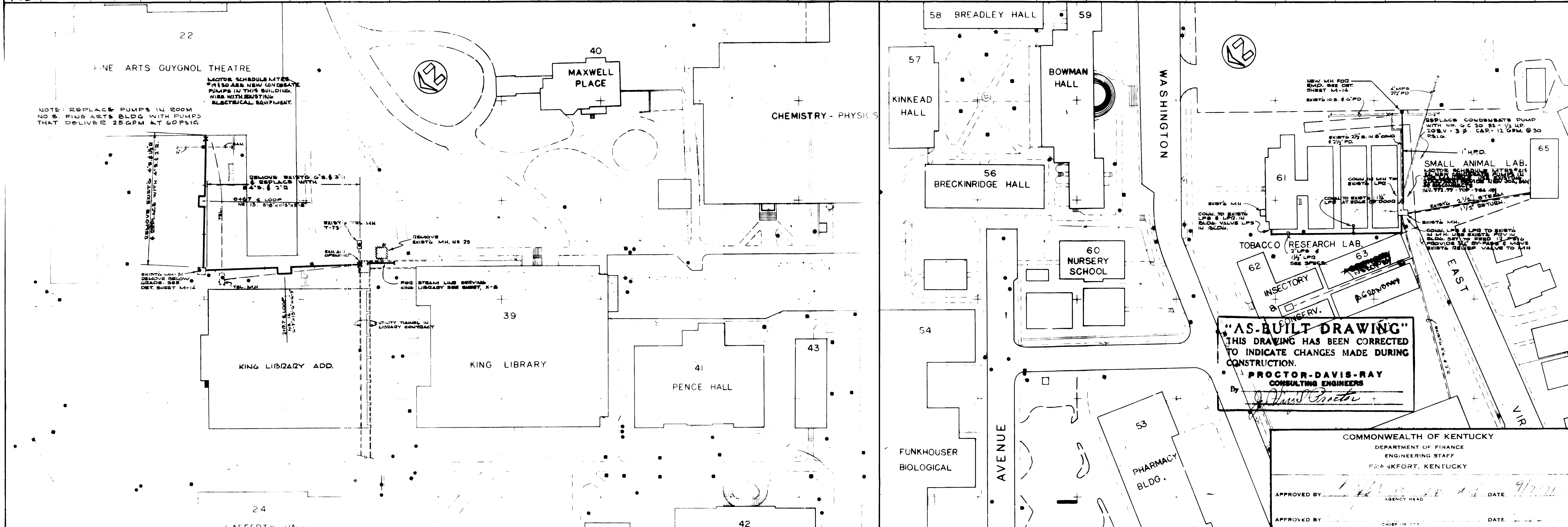
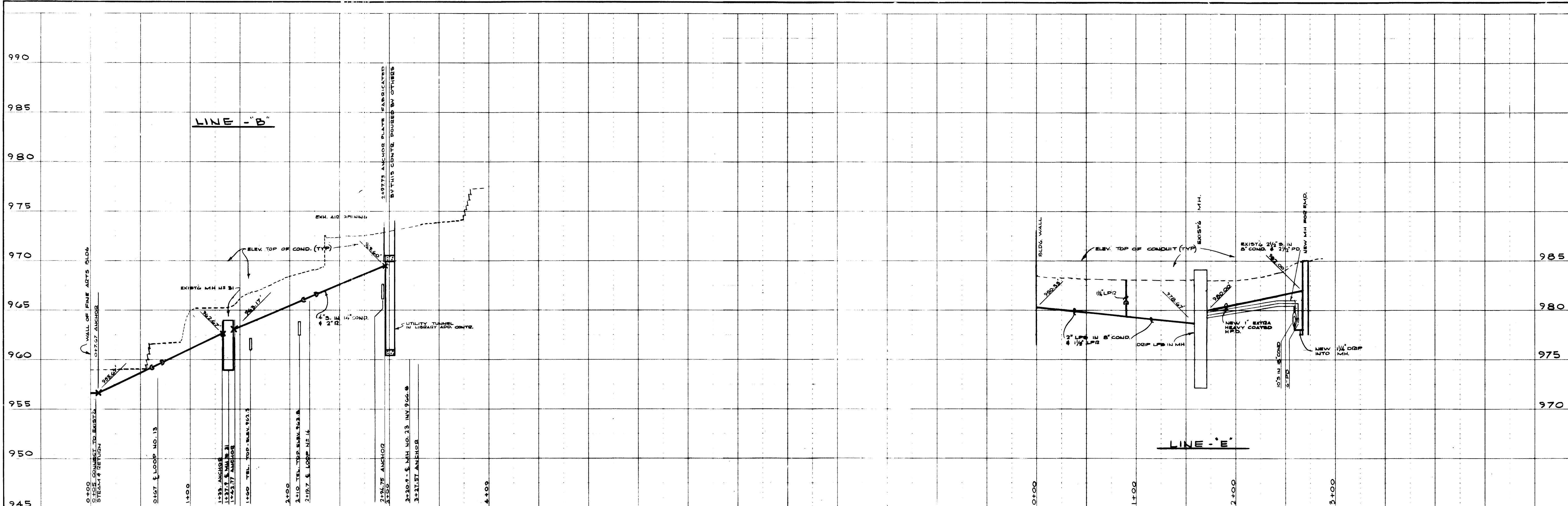
**"AS-BUILT DRAWING"**  
THIS DRAWING HAS BEEN CORRECTED  
TO INDICATE CHANGES MADE DURING  
CONSTRUCTION.  
PROCTOR-DAVIS-RAY  
CONSULTING ENGINEERS  
*J. Virgil Proctor*

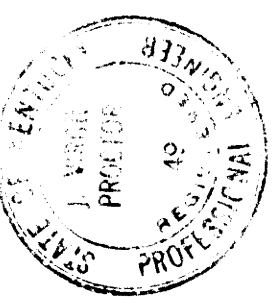
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4-5403







**PROCTOR - DAVIS - RAY**  
CONSULTING ENGINEERS, INC.  
LEXINGTON, KENTUCKY

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UNIVERSITY OF KENTUCKY  
STEAM DISTRIBUTION  
INTERCONNECTION  
STEAM OF PLANTS

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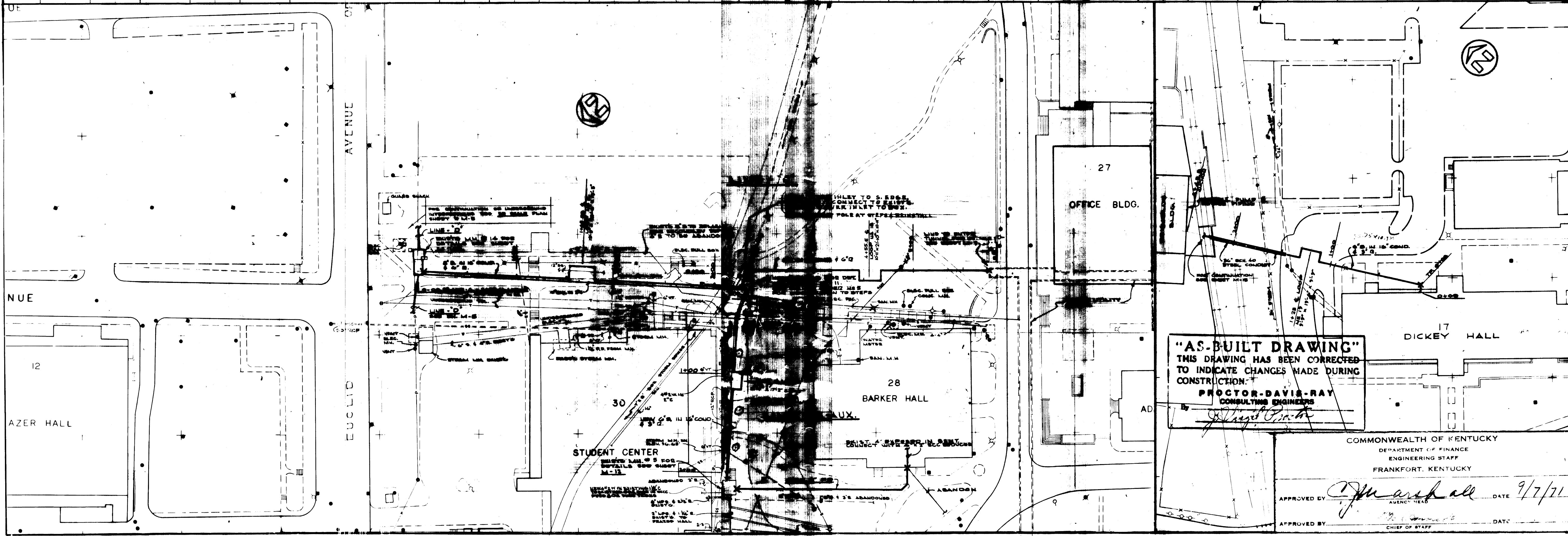
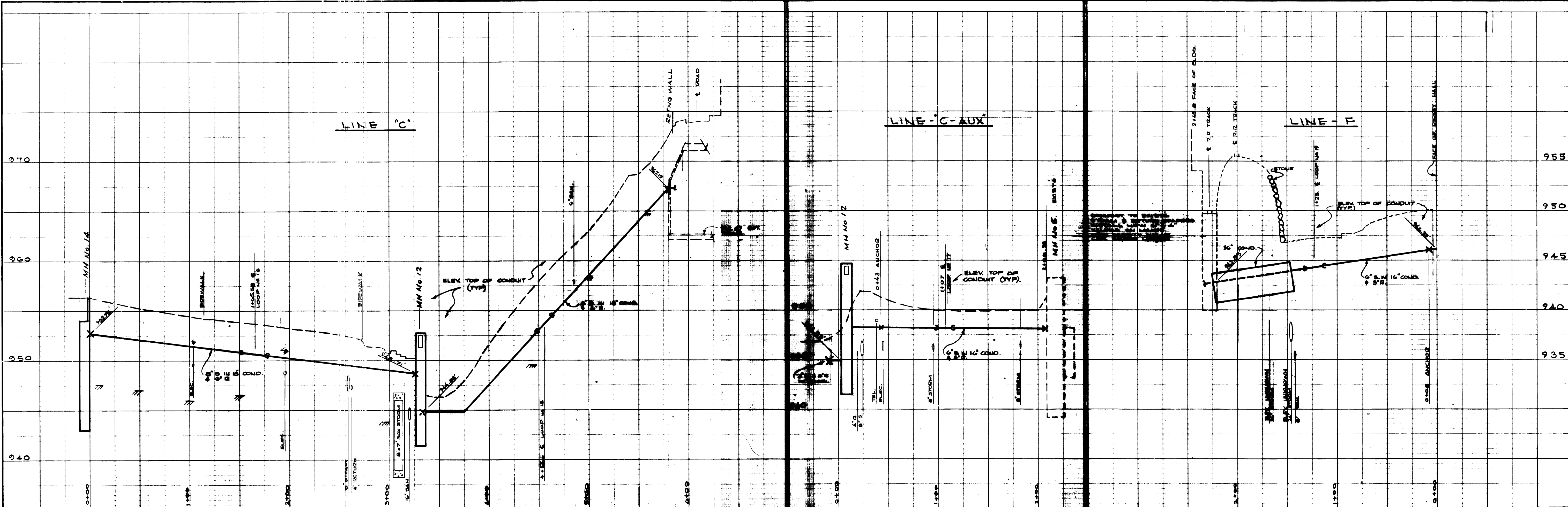
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APPROVED BY: _____ DATE: 9/7/71 APPROVED BY: _____ DATE: _____			


COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF FINANCE  
ENGINEERING STAFF  
FRANKFORT, KENTUCKY

M-3

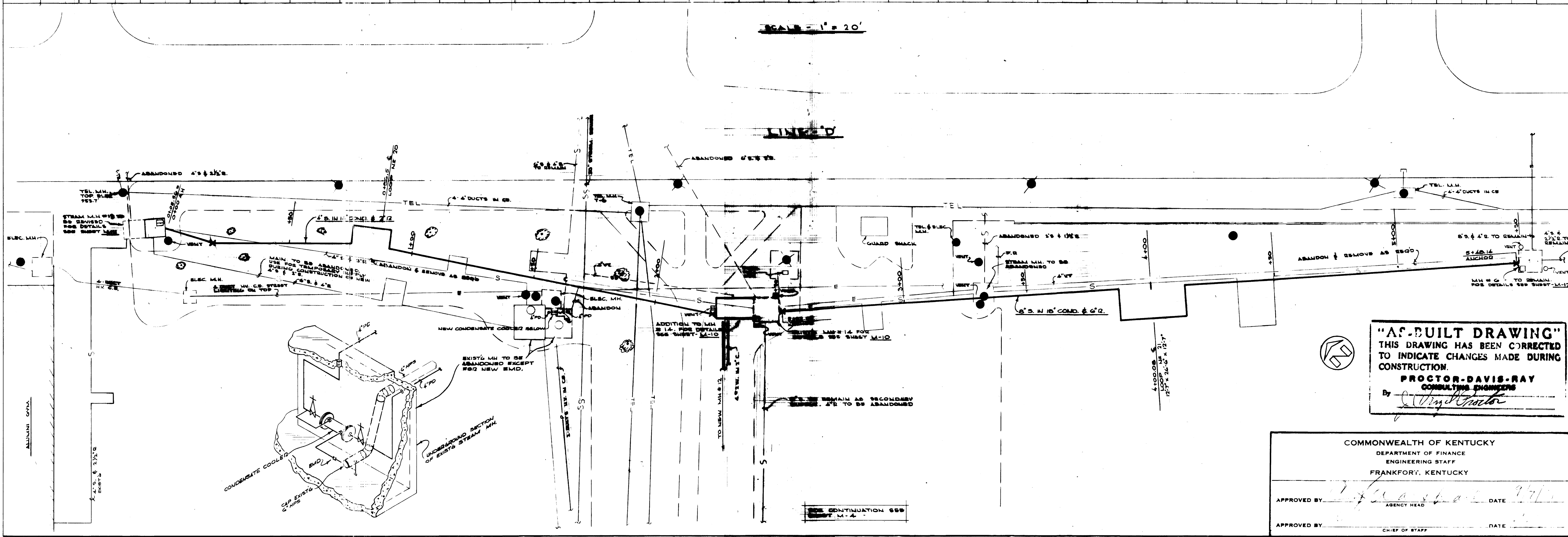
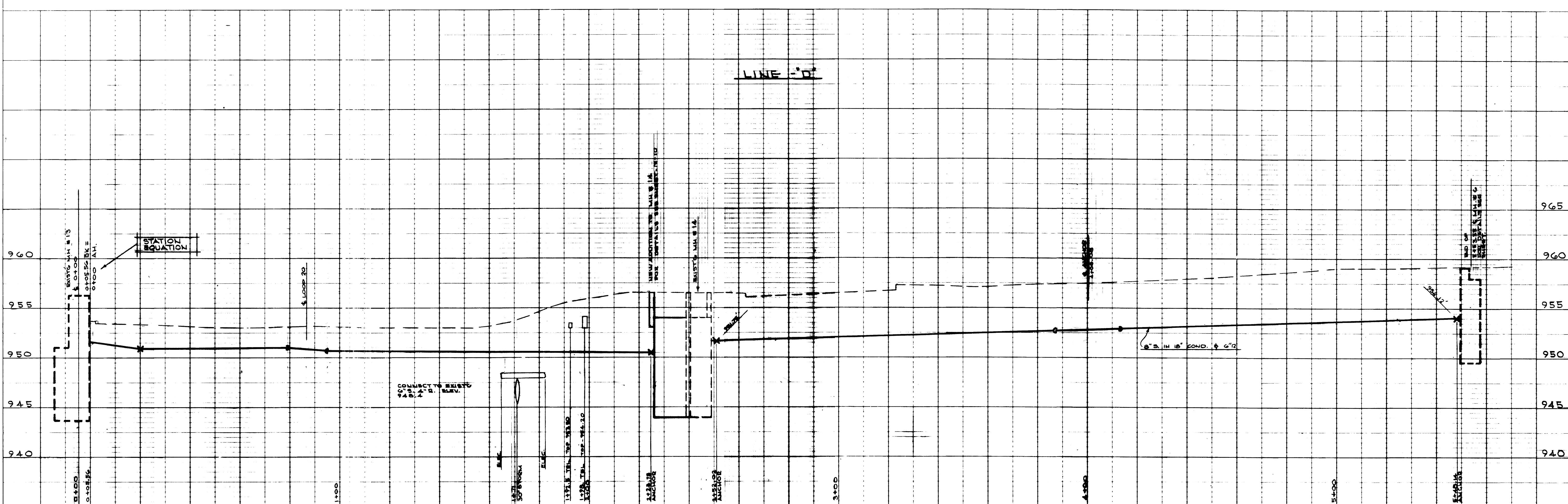
sheet no: 11 of 15  
 69 A-2 Document # 008217  
 47





	
<b>PROCTOR - DAVIS - RAY</b> CONSULTING ENGINEERS, INC. LEXINGTON, KENTUCKY	
UNIVERSITY OF KENTUCKY STEAM DISTRIBUTION INTERCONNECTION STEAM OF PLANTS LEXINGTON, KENTUCKY STEAM & RETURN MAINS - STUDENT CENTER BARKER HALL & LINES TO REYNOLDS BUILDING	
project no: 12 5	date: JULY-71
sheet no <b>M-4</b> of 15	job no: 7033
drawn: pcc & orb	checked: jvp
approved by: <i>J. Marshall</i> DATE 9/7/71	scale HORIZ: 1" = 50' VERT: 1" = 5'
COMMONWEALTH OF KENTUCKY DEPARTMENT OF FINANCE ENGINEERING STAFF FRANKFORT, KENTUCKY	APPROVED BY: <i>J. Marshall</i> DATE 9/7/71 AGENCY HEAD
APPROVED BY: _____ DATE _____ CHIEF OF STAFF	APPROVED BY: _____ DATE _____ CHIEF OF STAFF





**"AS-BUILT DRAWING"**  
 THIS DRAWING HAS BEEN CORRECTED  
 TO INDICATE CHANGES MADE DURING  
 CONSTRUCTION.  
**PROCTOR-DAVIS-RAY**  
 CONSULTING ENGINEERS  
 By *[Signature]*

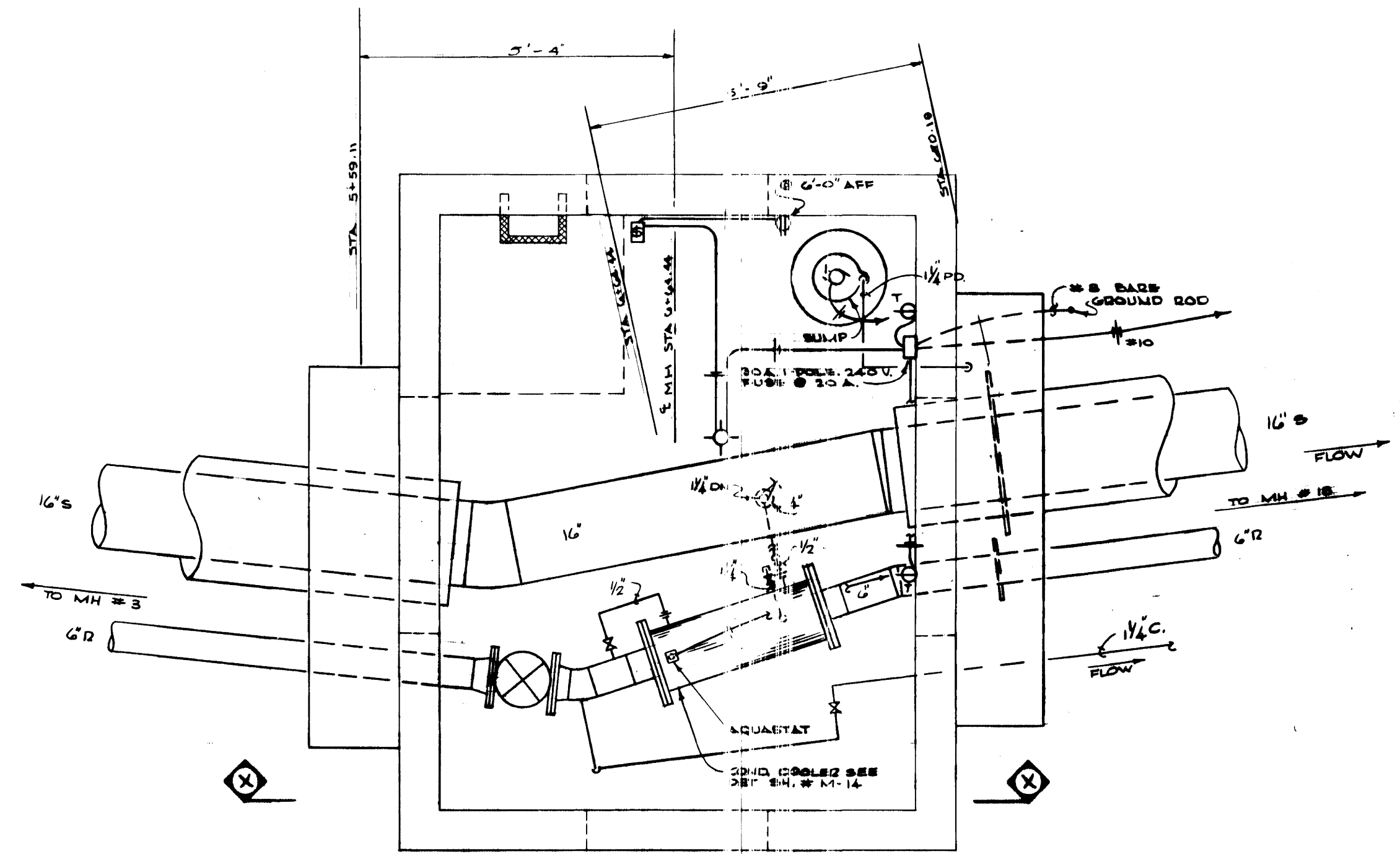
COMMONWEALTH OF KENTUCKY  
 DEPARTMENT OF FINANCE  
 ENGINEERING STAFF  
 FRANKFORT, KENTUCKY

APPROVED BY: *[Signature]* DATE: 9/7/71  
 AGENCY HEAD

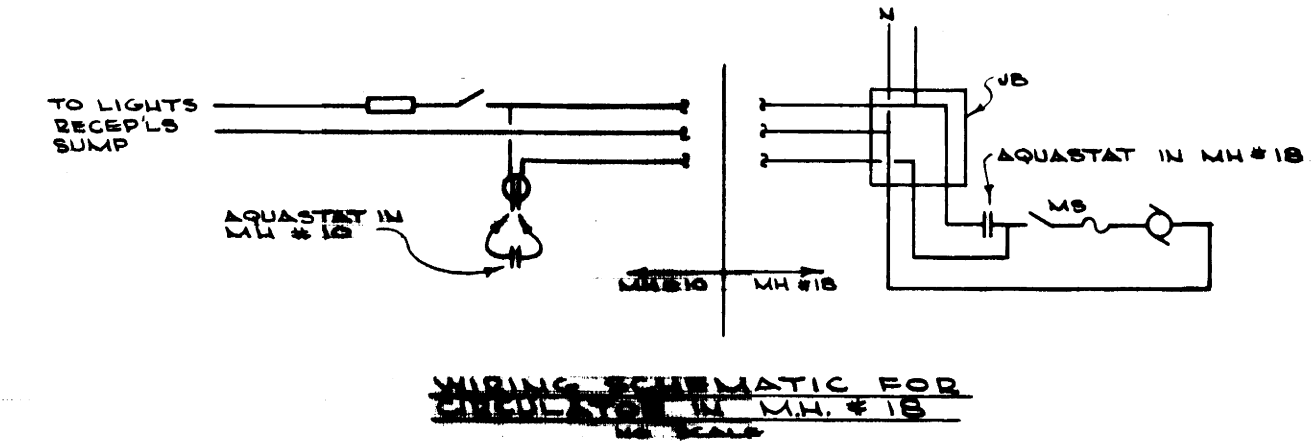
APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHIEF OF STAFF

PROJECT NO: 12 S DATE: AUG. 28 1971 JOB NO: 7033		DRAWN: PCG & DGB CHECKED: JVP SCALE: horz: 1" = 20' vert: 1" = 5'	
UNIVERSITY OF KENTUCKY STEAM DISTRIBUTION INTERCONNECTION OF PLANTS LEXINGTON, KENTUCKY		PROCTOR-DAVIS-RAY CONSULTING ENGINEERS, INC. LEXINGTON, KENTUCKY	
SHEET NO <b>M-5</b>	SHEET # OF 15 15	SHEET # OF 15 15	SHEET # OF 15 15

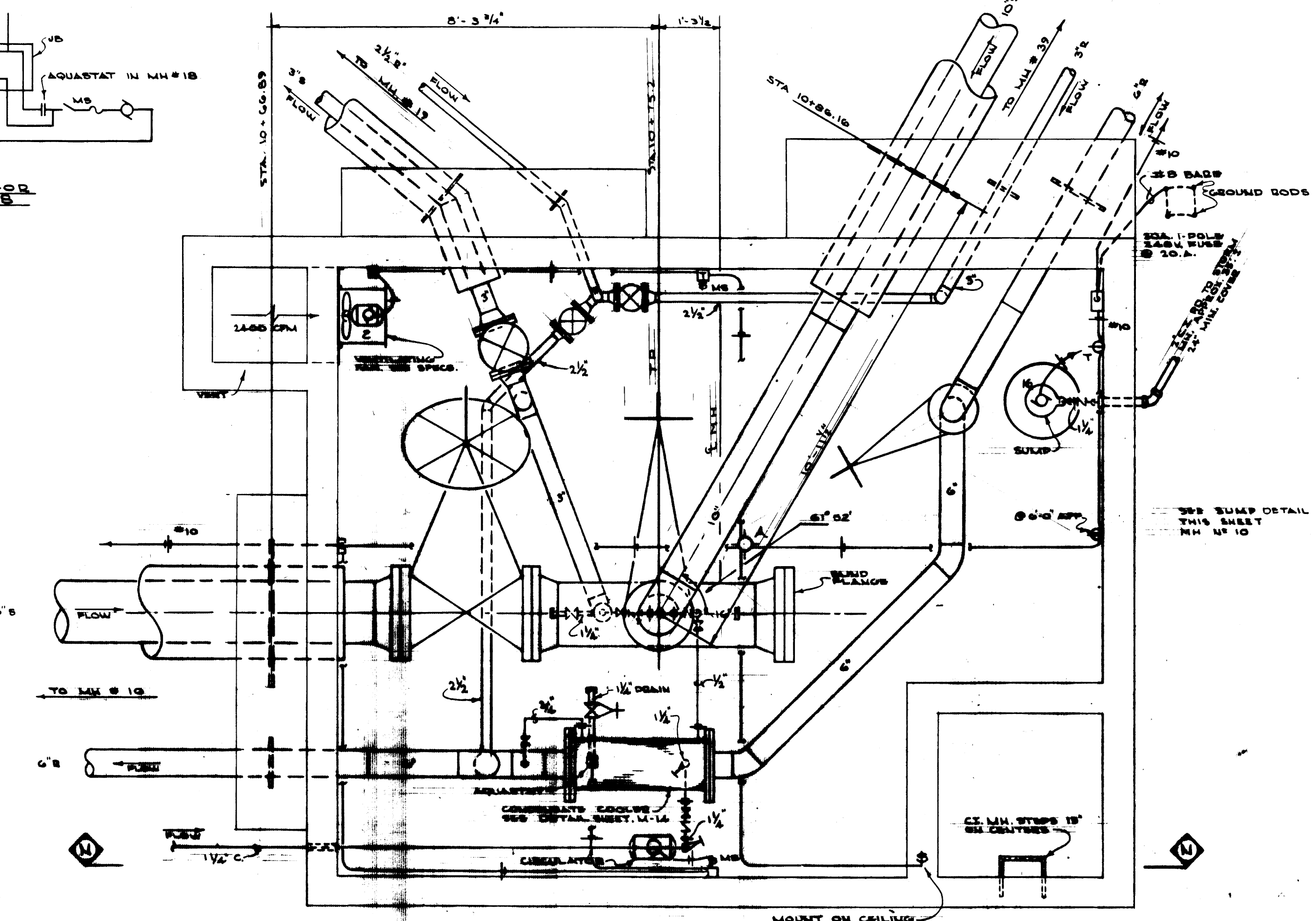




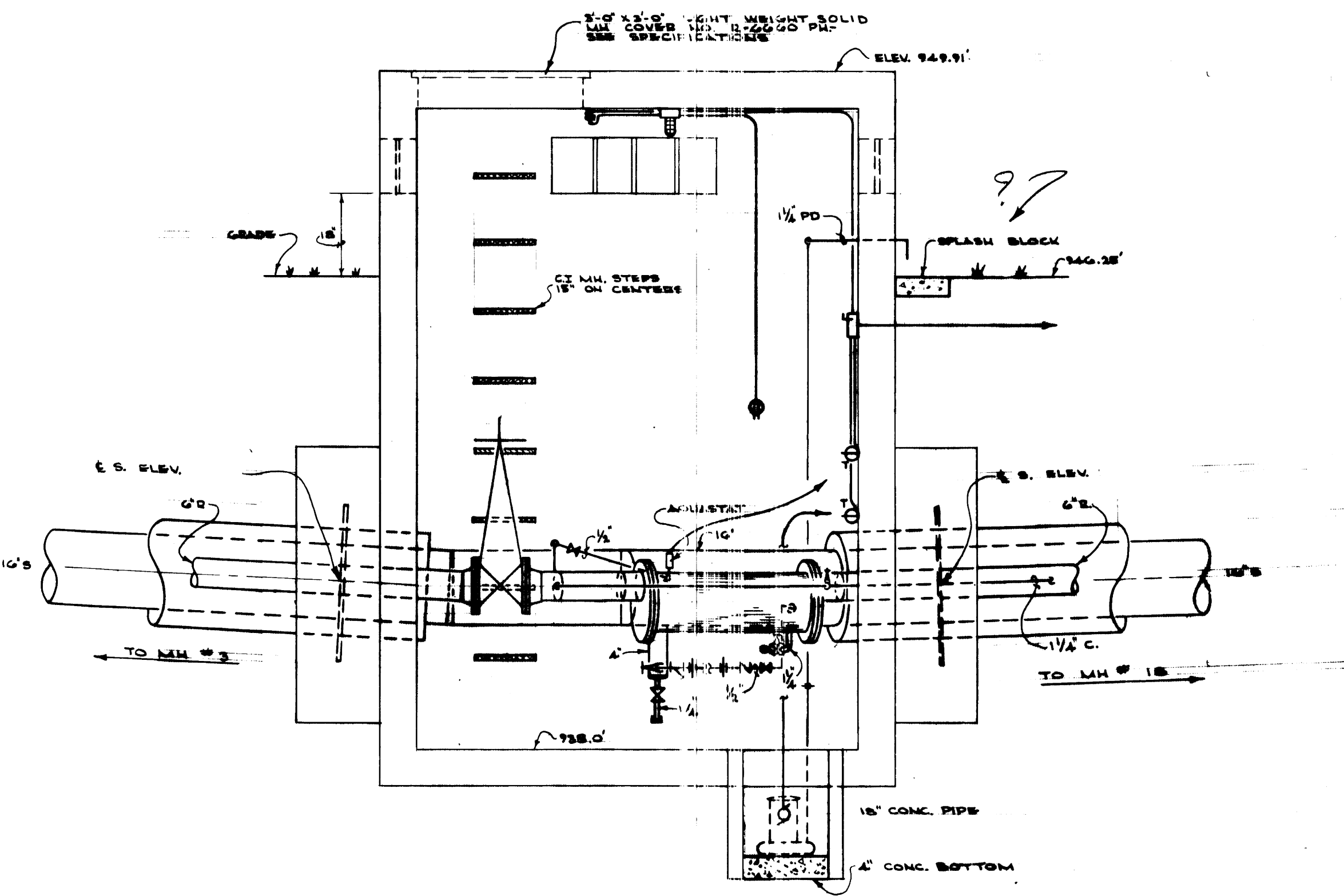
PLAN OF NEW MANHOLE #10  
SCALE - 1/4" = 1'-0"



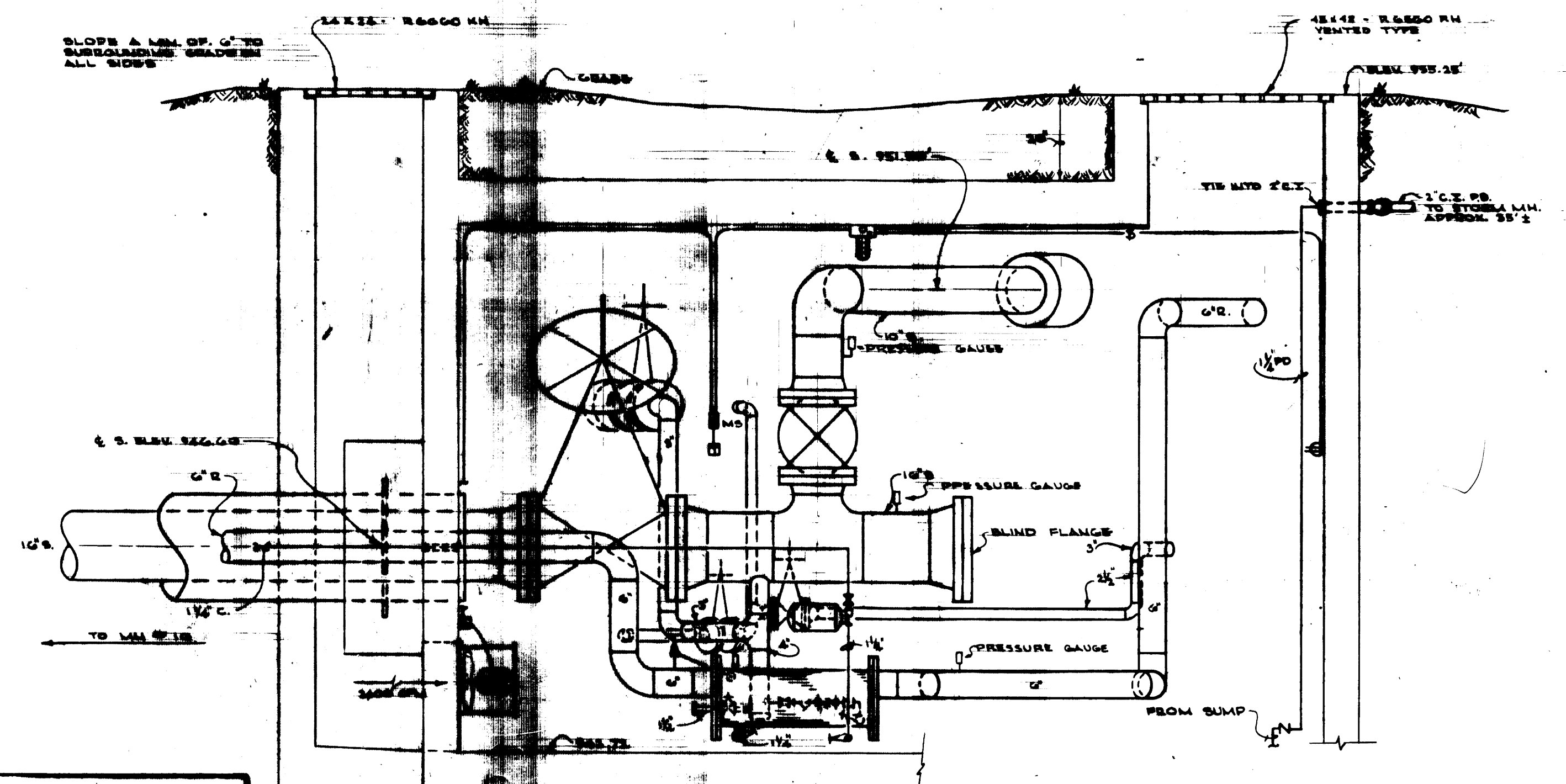
WIRING SCHEMATIC FOR MANHOLE #10



PLAN OF NEW MANHOLE #18  
SCALE - 1/4" = 1'-0"



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



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

"AS-BUILT DRAWING"  
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TO REFLECT CHANGES MADE DURING  
CONSTRUCTION.  
PROCTOR-DAVIS-RAY  
CONSULTING ENGINEERS  
*J. Davis*

COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF FINANCE  
ENGINEERING STAFF  
FRANKFORT, KENTUCKY  
APPROVED: *J. J. ...* DATE 9/7/11  
AGENCY HEAD  
APPROVED BY: \_\_\_\_\_ DATE \_\_\_\_\_  
CHIEF OF STAFF

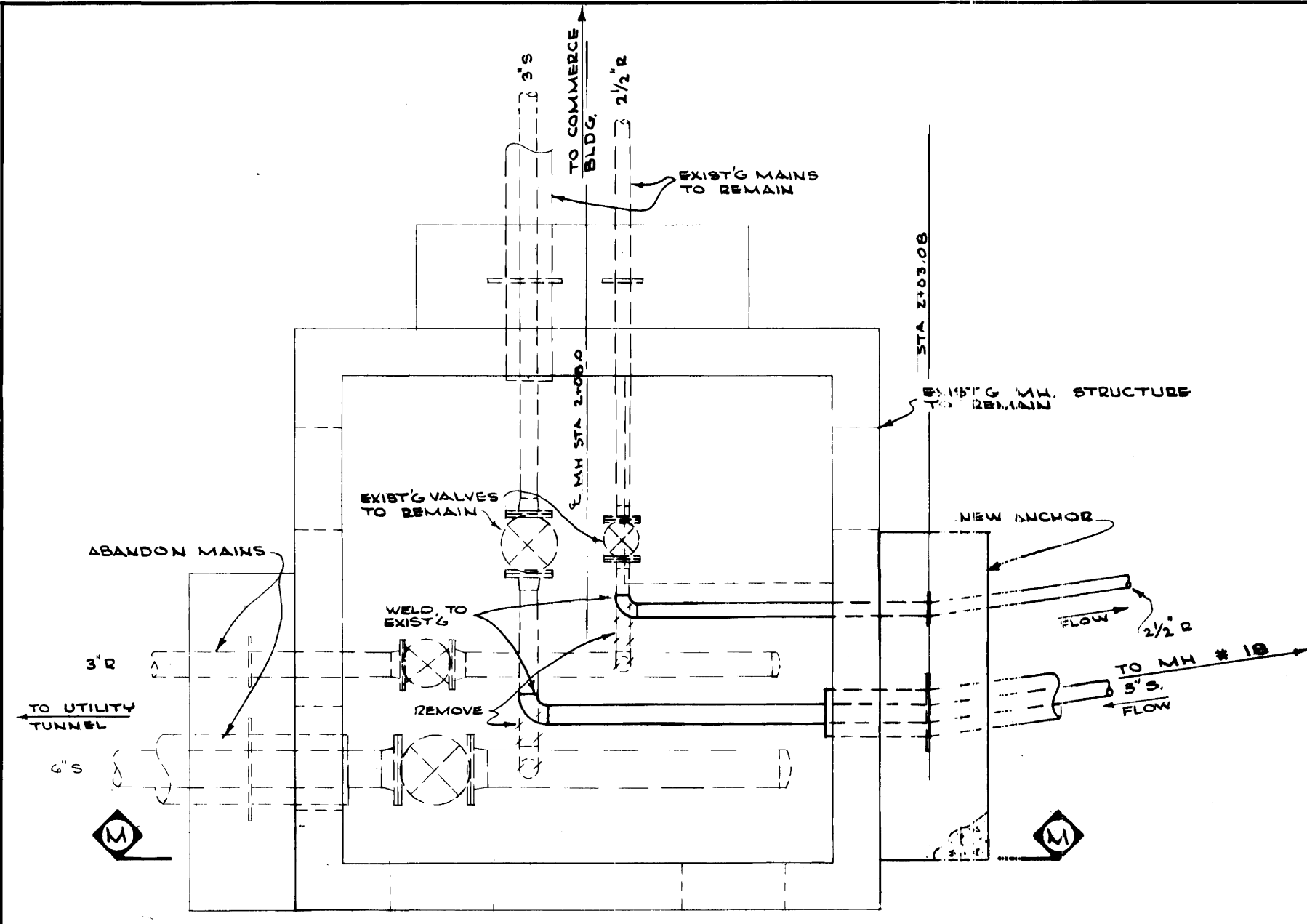
PROCTOR-DAVIS-RAY  
CONSULTING ENGINEERS, INC.  
LEXINGTON, KENTUCKY

UNIVERSITY OF KENTUCKY  
STEAM DISTRIBUTION  
INTER CONNECTION  
STEAM PLANTS  
LEXINGTON, KENTUCKY  
DETAILS - M.H. #10 & M.H. #18

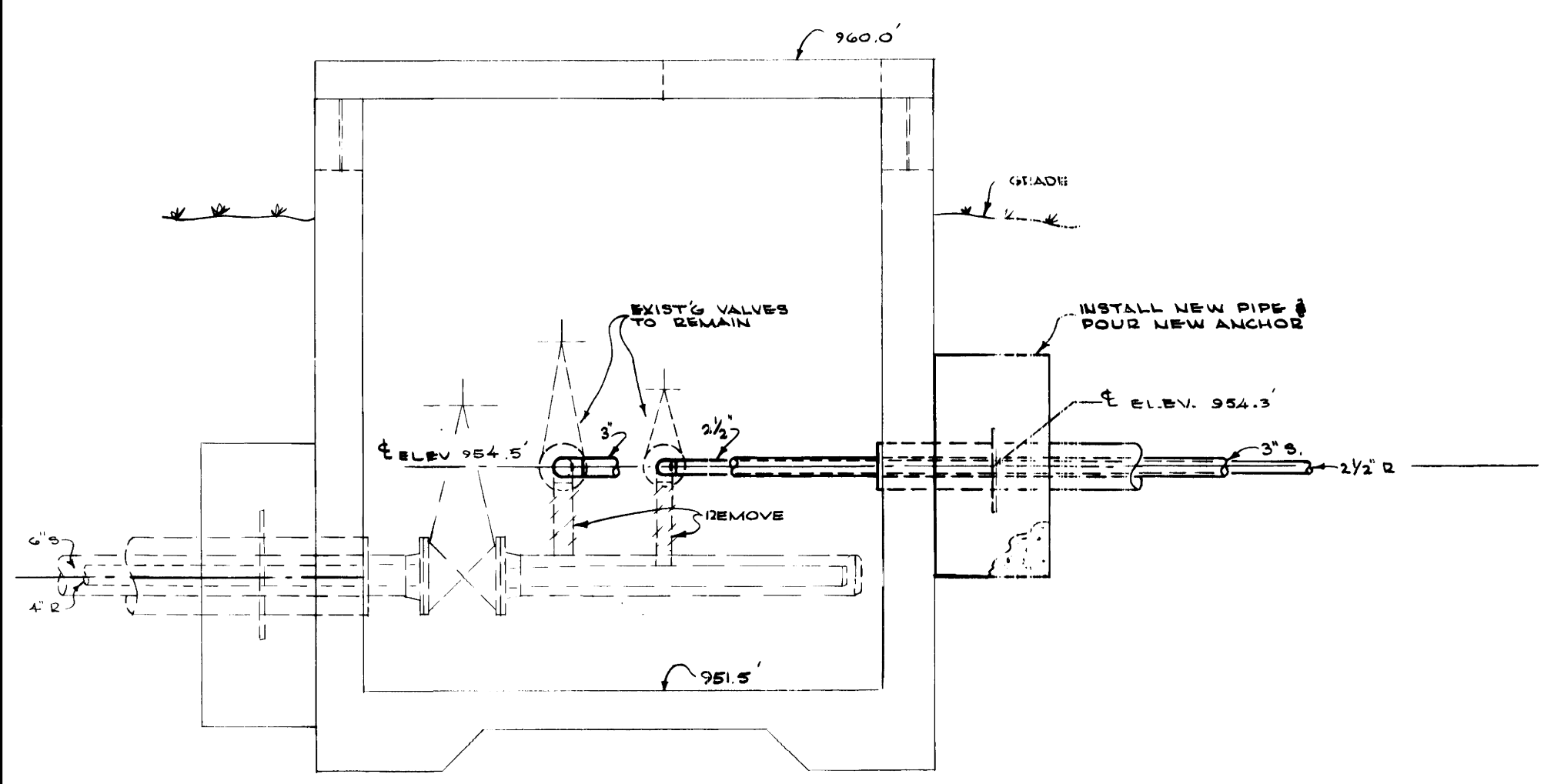
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date: AUG. 23 1971	checked: JVP
job no: 7053	scale: AS SHOWN
REVISIONS	vert: _____

sheet no: \_\_\_\_\_  
**M-6**  
Call # \_\_\_\_\_  
Doc # \_\_\_\_\_  
99 A2 008250

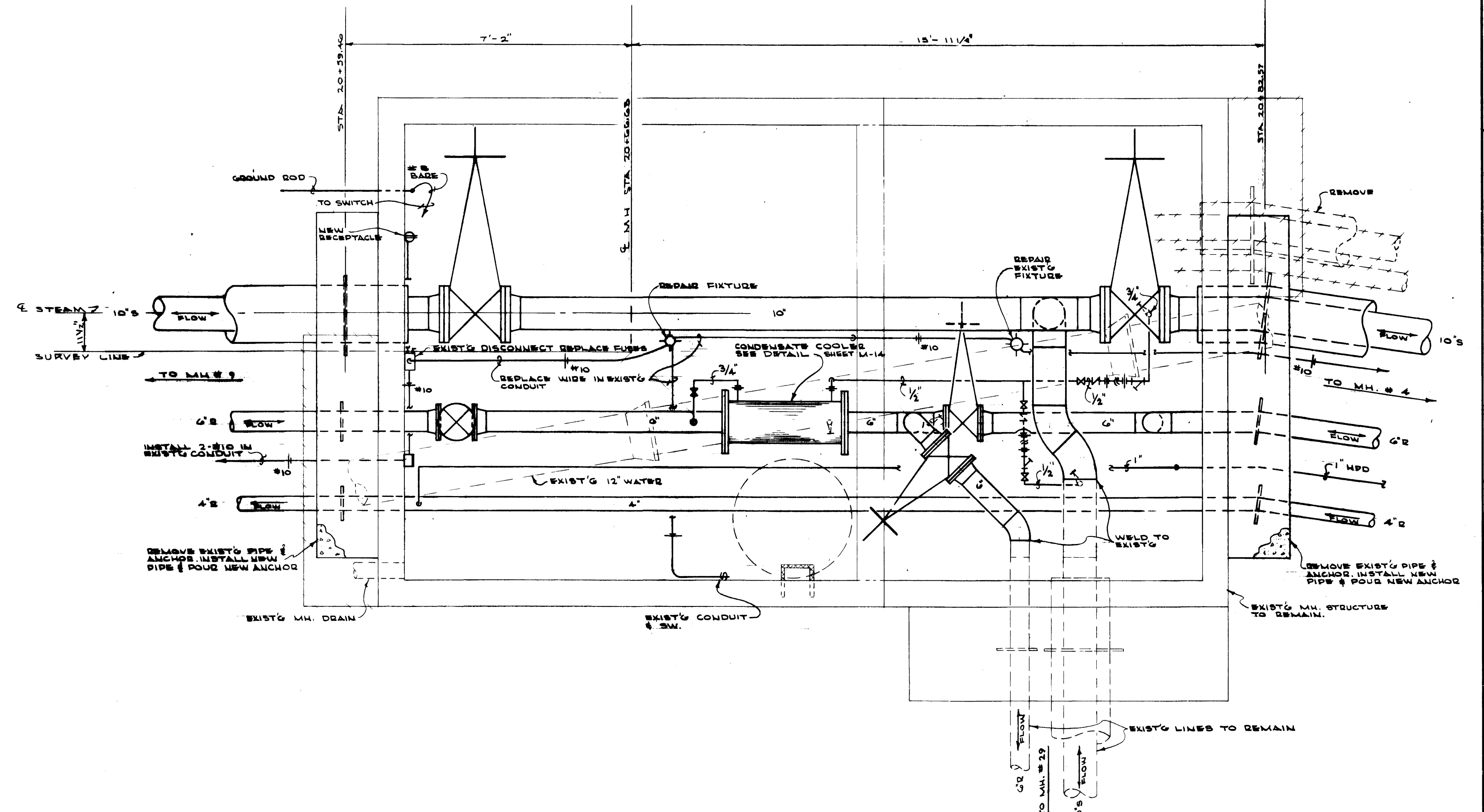




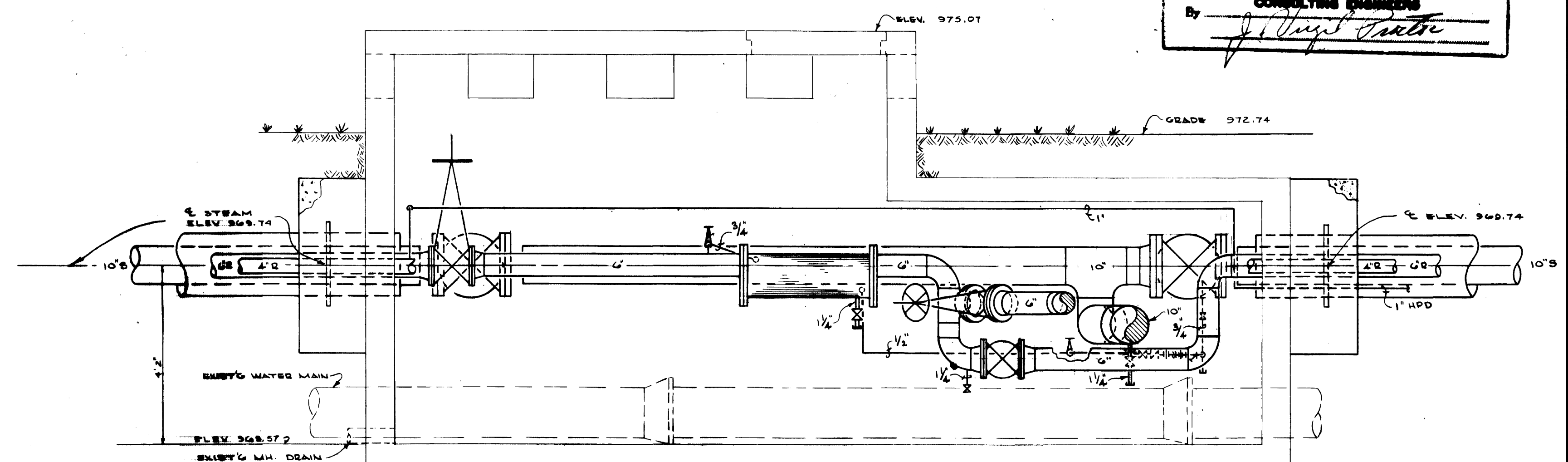
**PLAN OF REVISED MANHOLE # 19**  
SCALE - 1/2" = 1'-0"



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



**PLAN OF REVISED MANHOLE # 8**  
SCALE - 1/2" = 1'-0"

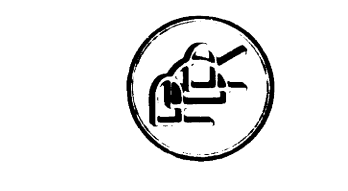
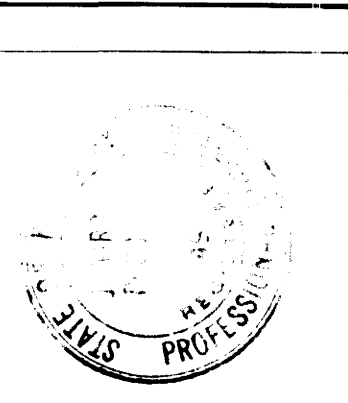


**SECTION - F - F**  
SCALE - 1/2" = 1'-0"

**"AS-BUILT DRAWING"**  
THIS DRAWING HAS BEEN CORRECTED TO INDICATE CHANGES MADE DURING CONSTRUCTION.  
**PROCTOR-DAVIS-RAY**  
CONSULTING ENGINEERS  
By *J. Davis Ray*

COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF FINANCE  
ENGINEERING STAFF  
FRANKFORT, KENTUCKY

APPROVED BY: *J. Davis Ray* AGENCY HEAD DATE: 9/7/71  
APPROVED BY: \_\_\_\_\_ CHIEF OF STAFF DATE: \_\_\_\_\_



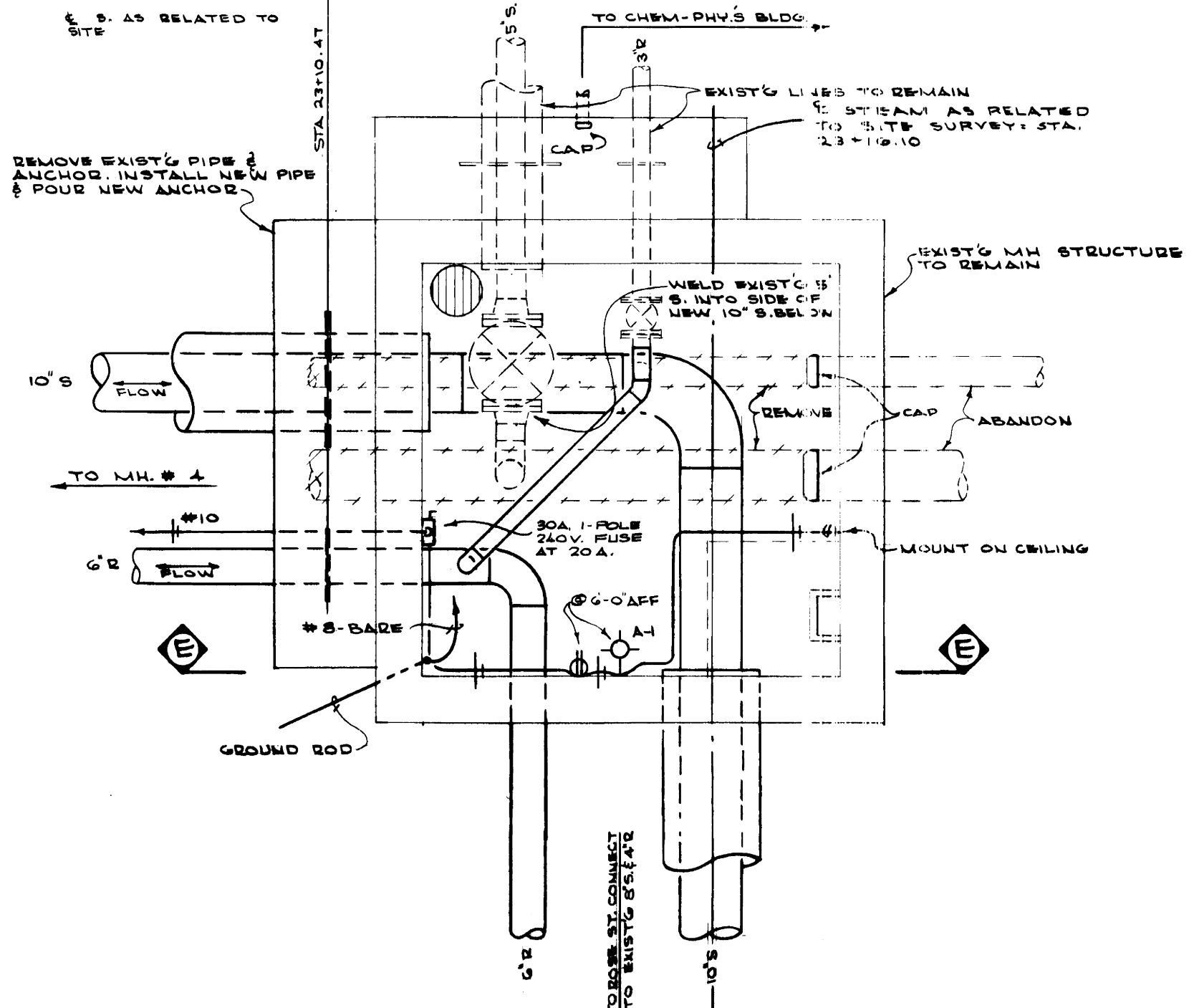
**PROCTOR-DAVIS-RAY**  
CONSULTING ENGINEERS, INC.  
LEXINGTON, KENTUCKY

UNIVERSITY of KENTUCKY  
STEAM DISTRIBUTION  
INTERCONNECTION  
of PLANTS  
LEXINGTON, KENTUCKY  
DETAILS - M.H. # 19 & M.H. # 8

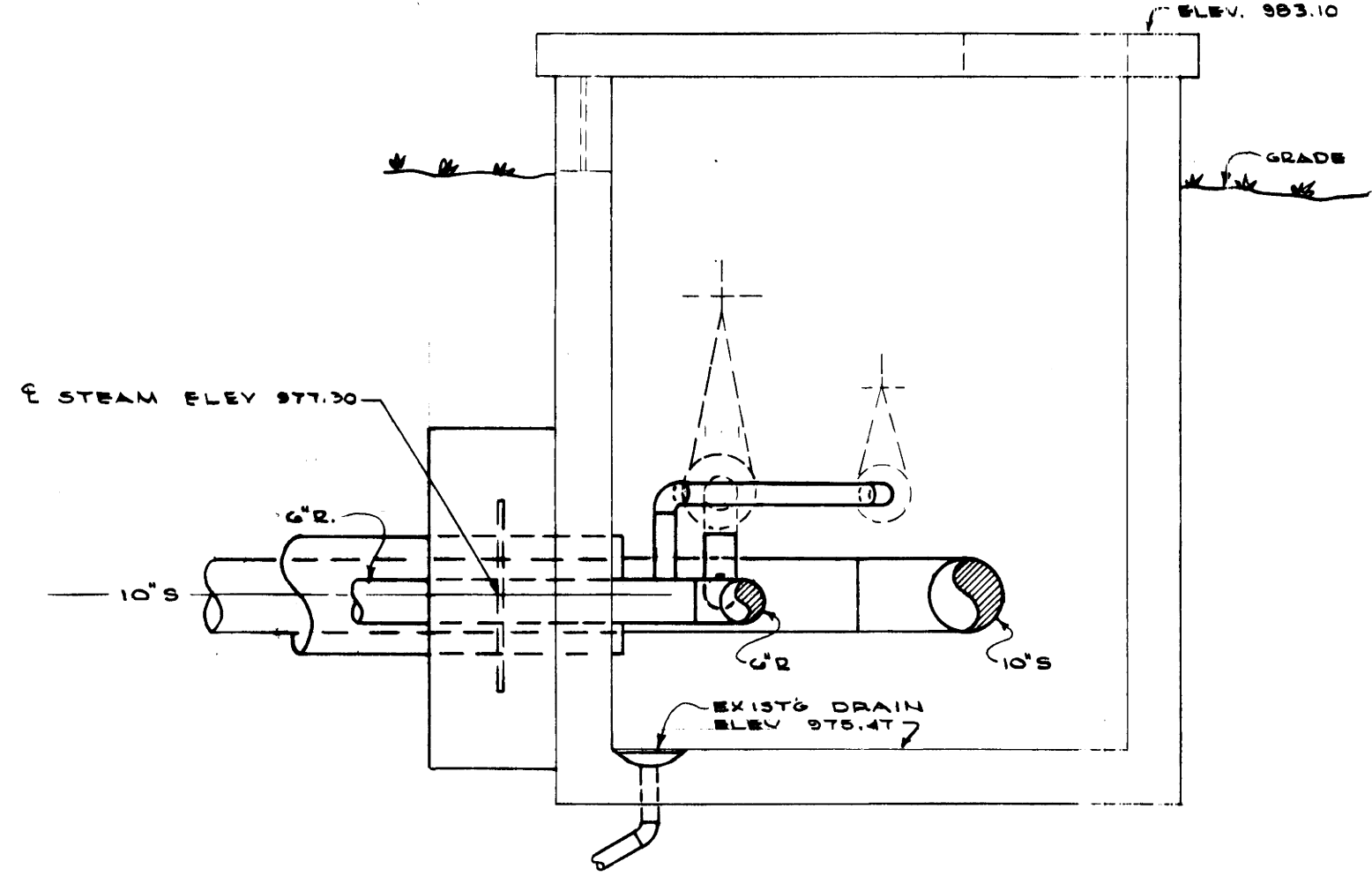
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date: AUG. 23 1971	checked: JVP
job no: 7085	scale: AS SHOWN
REVISIONS	vert: _____

Sheet no  
**M-7**  
of 15

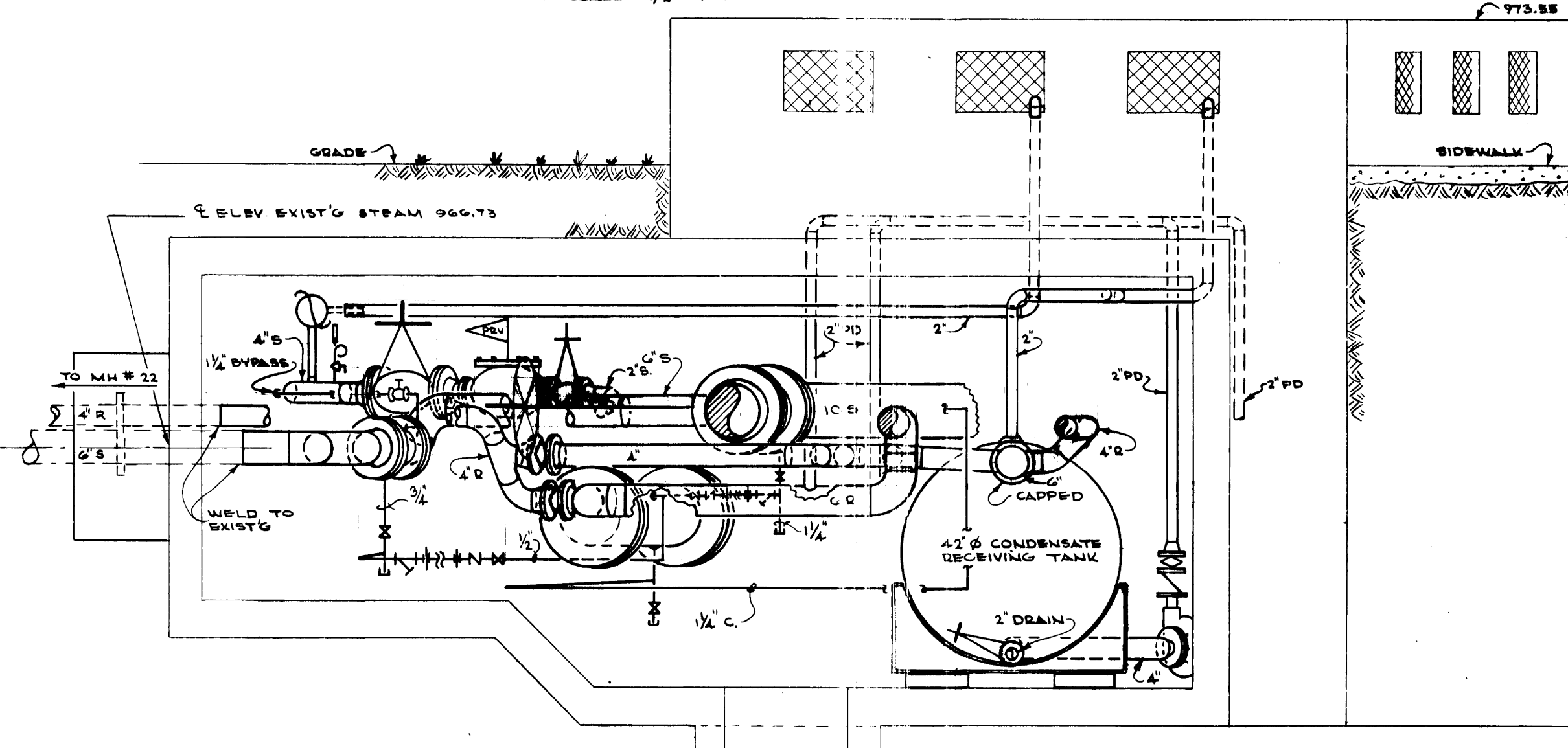




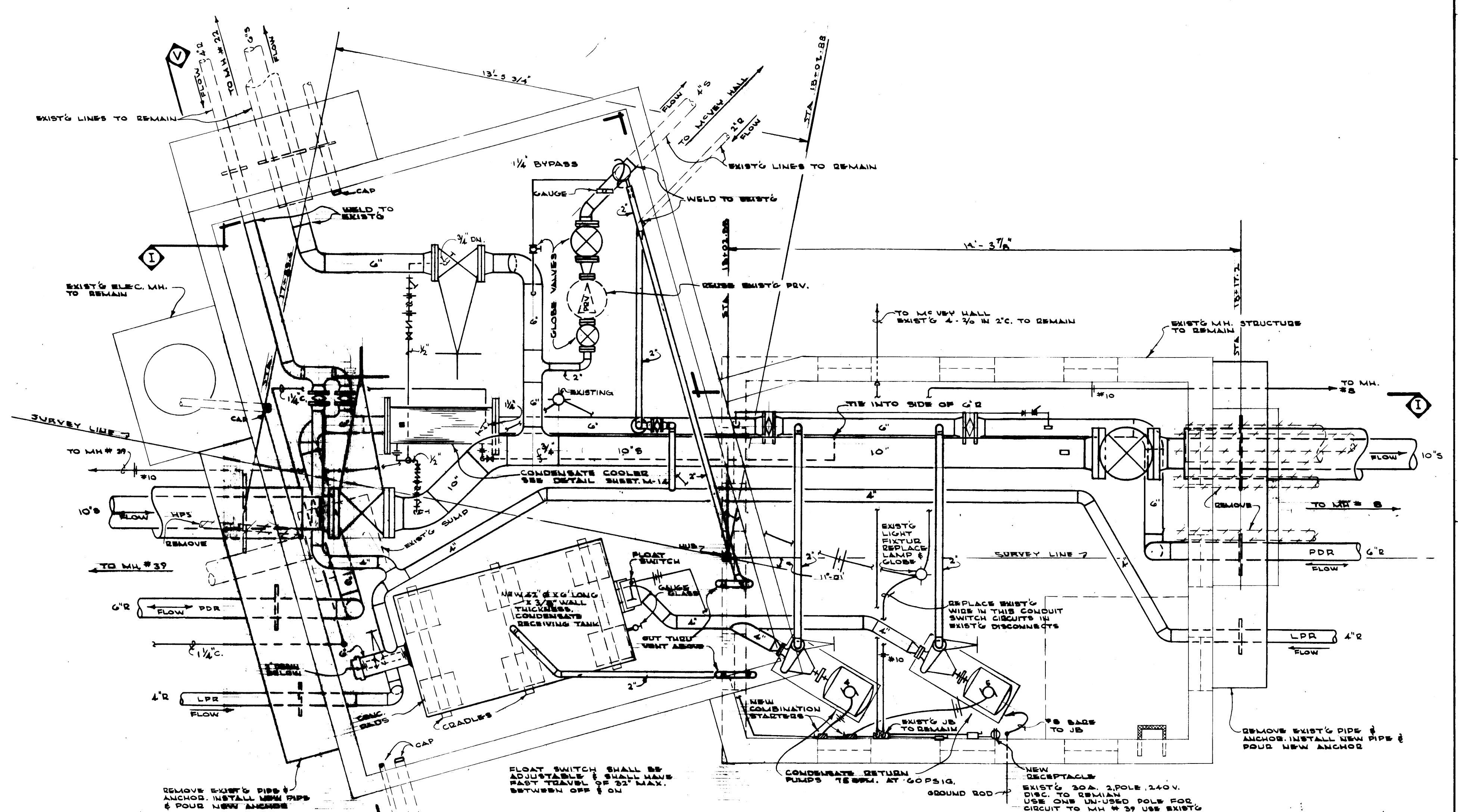
**PLAN OF REVISED MANHOLE # 2 B**  
SCALE - 1/2" = 1'-0"



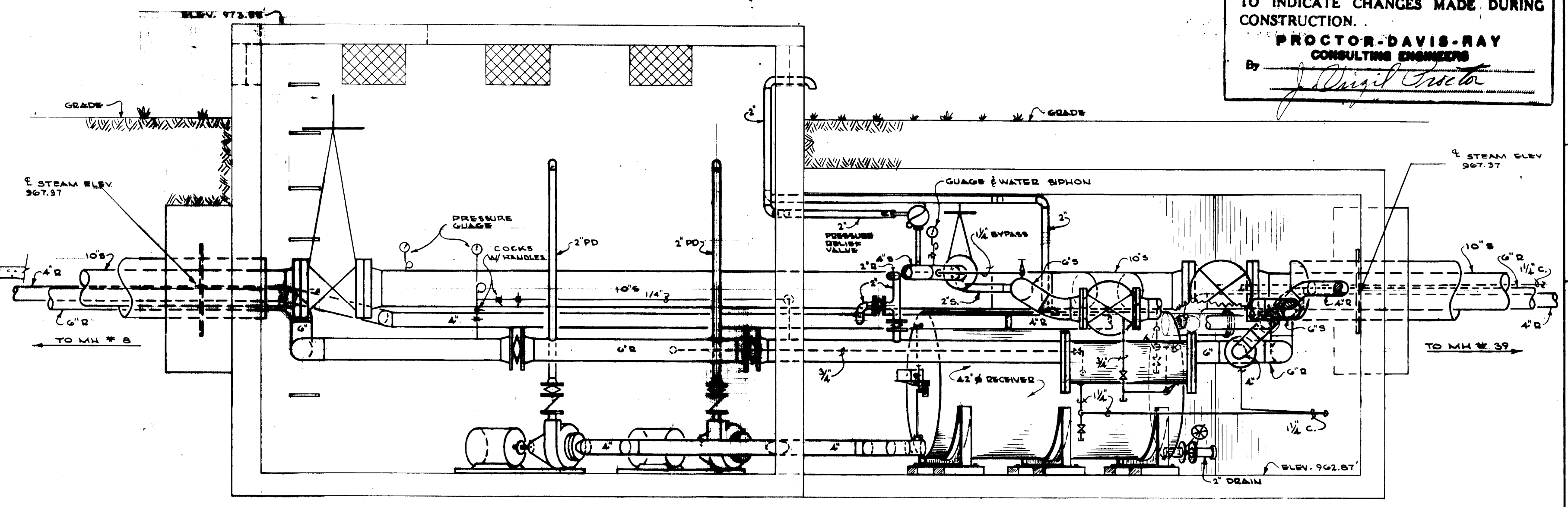
**SECTION - E - E**  
SCALE - 1/2" = 1'-0"



**SECTION - V - V**  
SCALE - 1/2" = 1'-0"



**PLAN OF REVISED MANHOLE # 9**  
SCALE - 1/2" = 1'-0"



**SECTION - I - I**  
SCALE - 1/2" = 1'-0"

**"AS-BUILT DRAWING"**  
THIS DRAWING HAS BEEN CORRECTED TO INDICATE CHANGES MADE DURING CONSTRUCTION.  
**PROCTOR-DAVIS-RAY CONSULTING ENGINEERS**  
By *J. David Smith*

COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF FINANCE  
ENGINEERING STAFF  
FRANKFORT, KENTUCKY

APPROVED BY: *J. Marshall* DATE: 9/7/77  
AGENCY HEAD

APPR BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
CHIEF OF STAFF

PROCTOR-DAVIS-RAY  
CONSULTING ENGINEERS INC  
LEXINGTON KENTUCKY

UNIVERSITY OF KENTUCKY  
DISTRIBUTION  
STEAM INTERCONNECTION  
OF PLANTS  
LEXINGTON, KENTUCKY

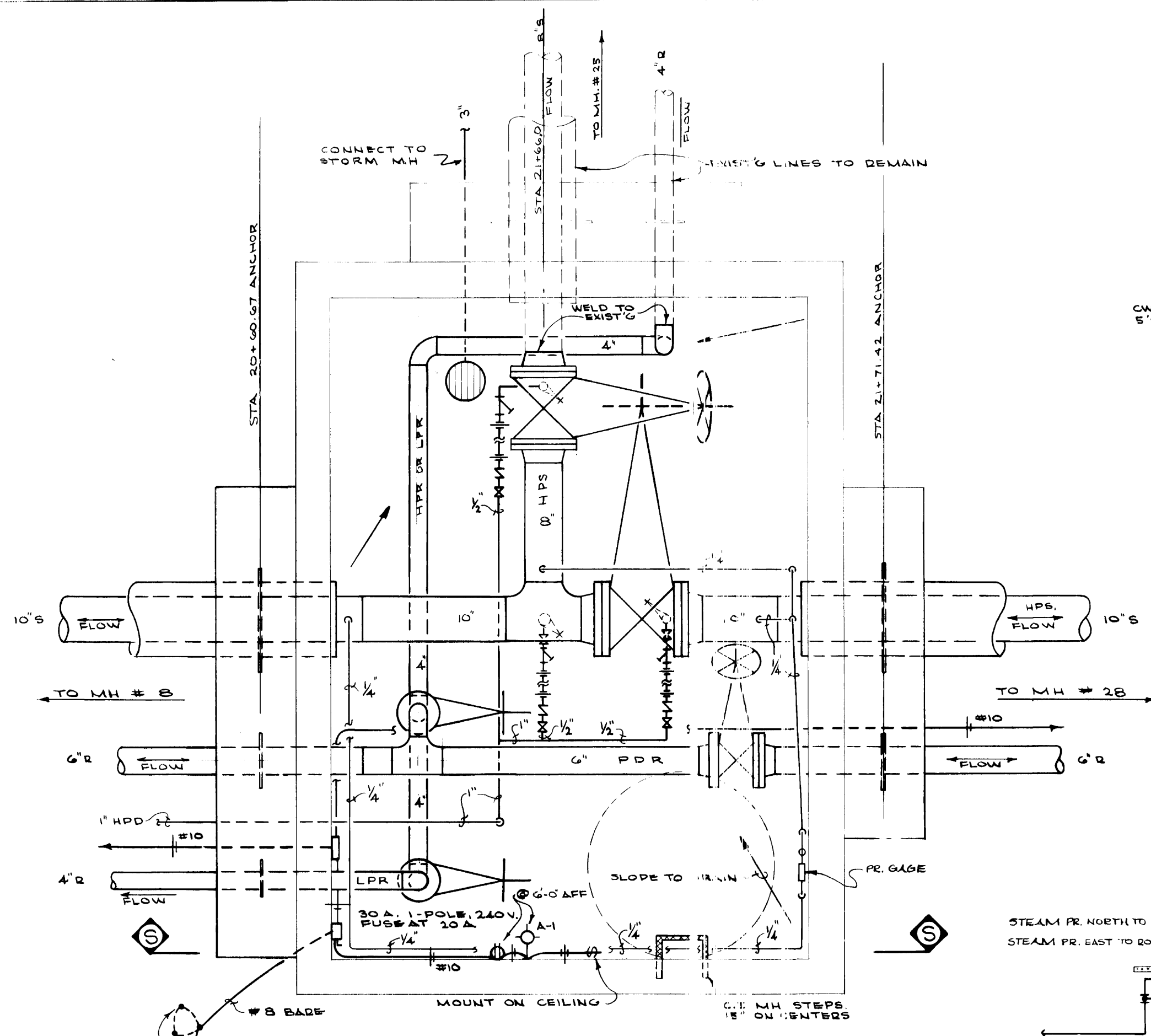
DETAILS - MH.#2B & MH.#2

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date: AUG-13 1971	checked: JVP
job no: 7053	scale: AS SHOWN
revisions:	vert:

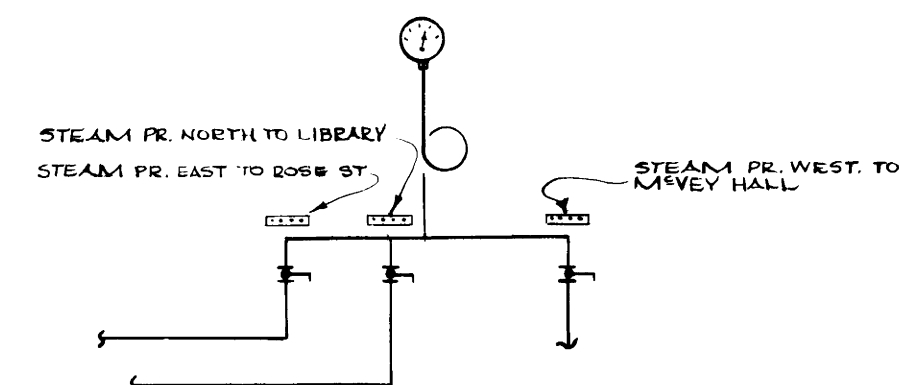
sheet no. **M-8**

4-5409

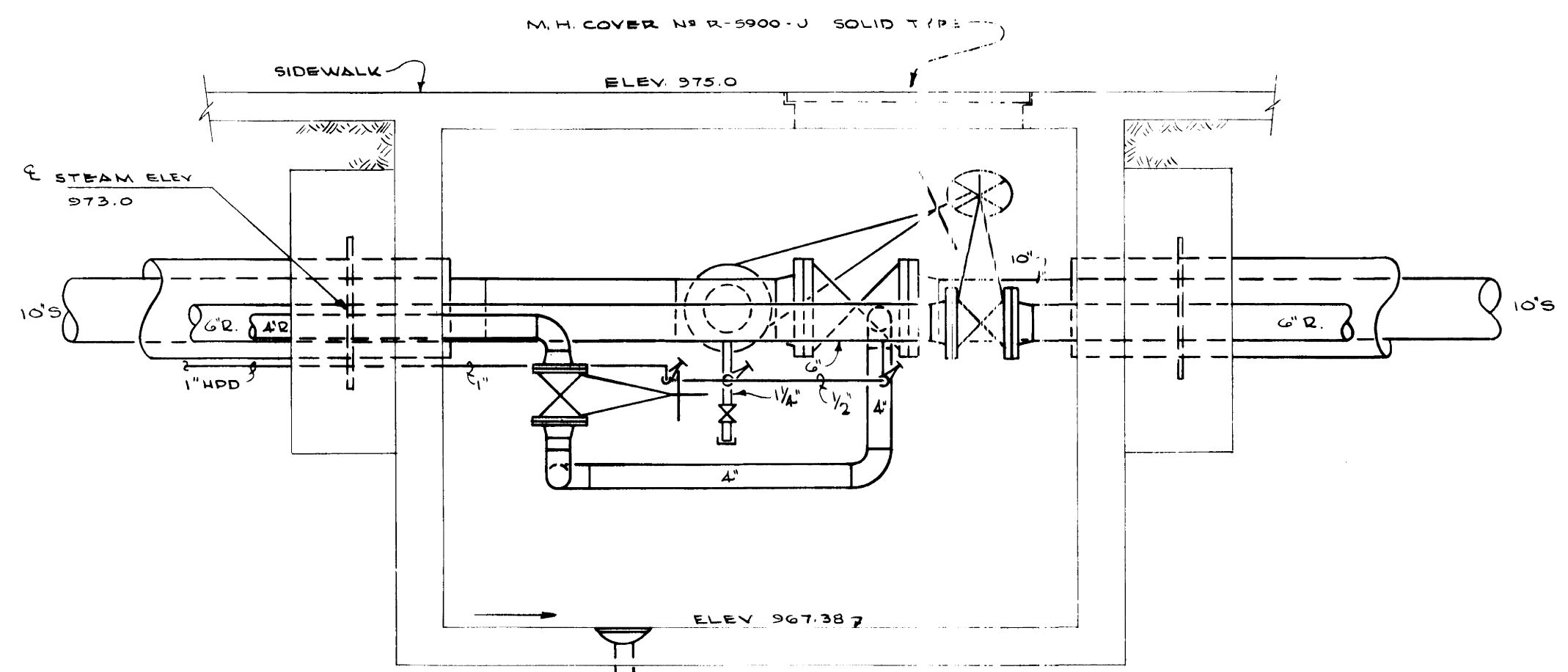




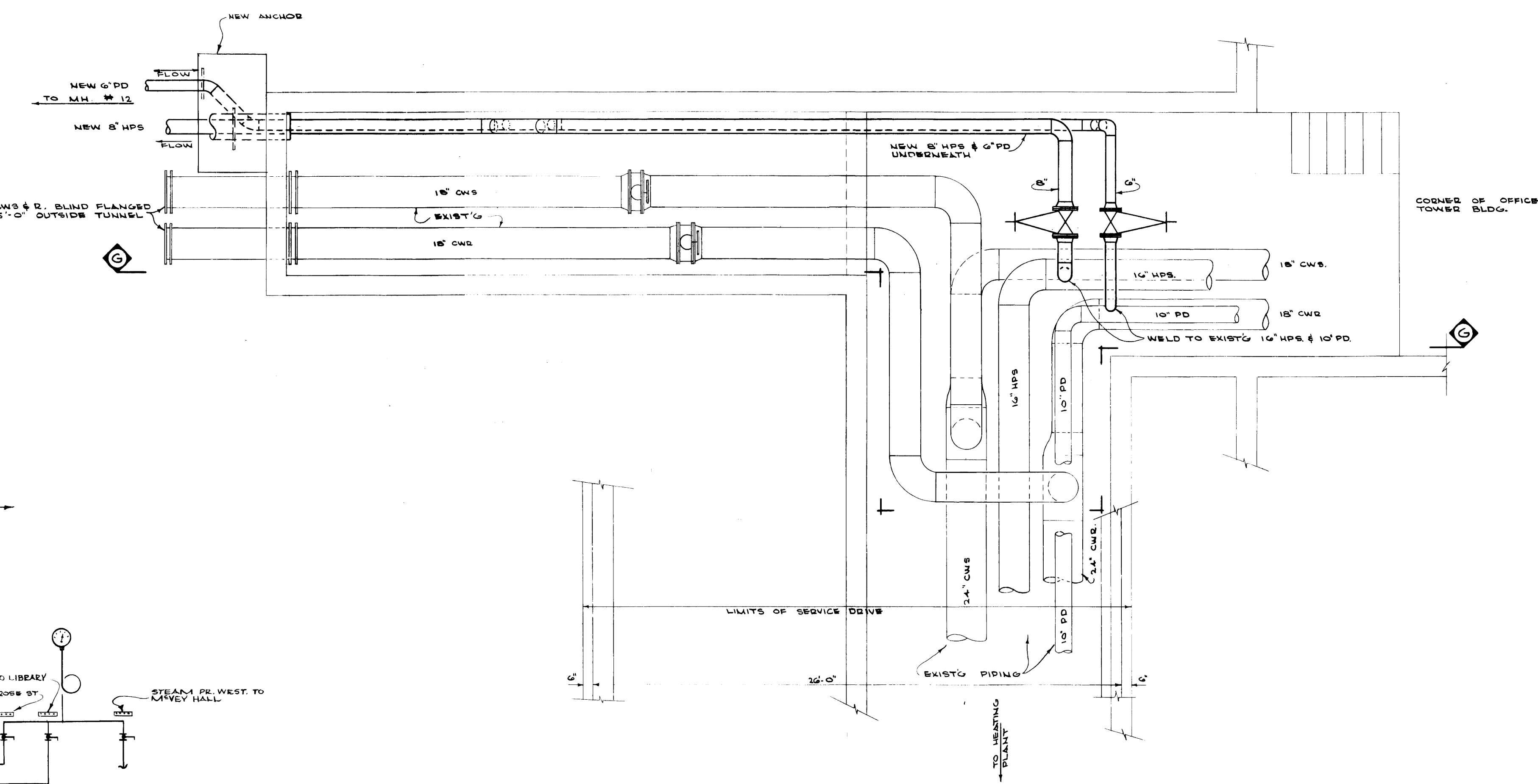
PLAN OF NEW  
MANHOLE # 4  
SCALE - 1/2" = 1'-0"



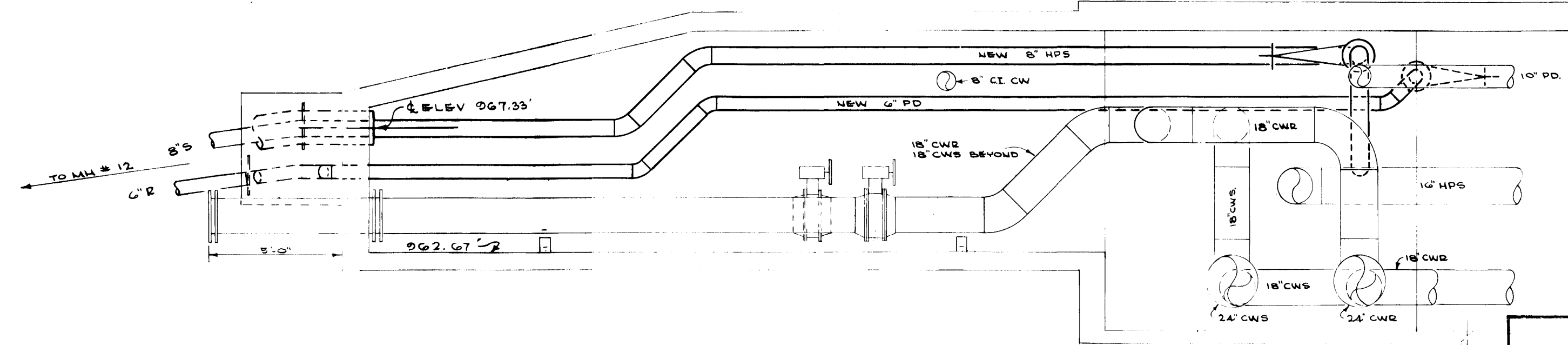
ELEVATION A-A  
NO SCALE



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



PLAN OF TUNNEL UNDER SERVICE DRIVE  
SCALE - 1/4" = 1'-0"



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

**"AS-BUILT DRAWING"**  
THIS DRAWING HAS BEEN CORRECTED  
TO INDICATE CHANGES MADE DURING  
CONSTRUCTION.  
**PROCTOR-DAVIS-RAY**  
CONSULTING ENGINEERS  
By *[Signature]*

APPROVED BY: *[Signature]*  
DATE: \_\_\_\_\_

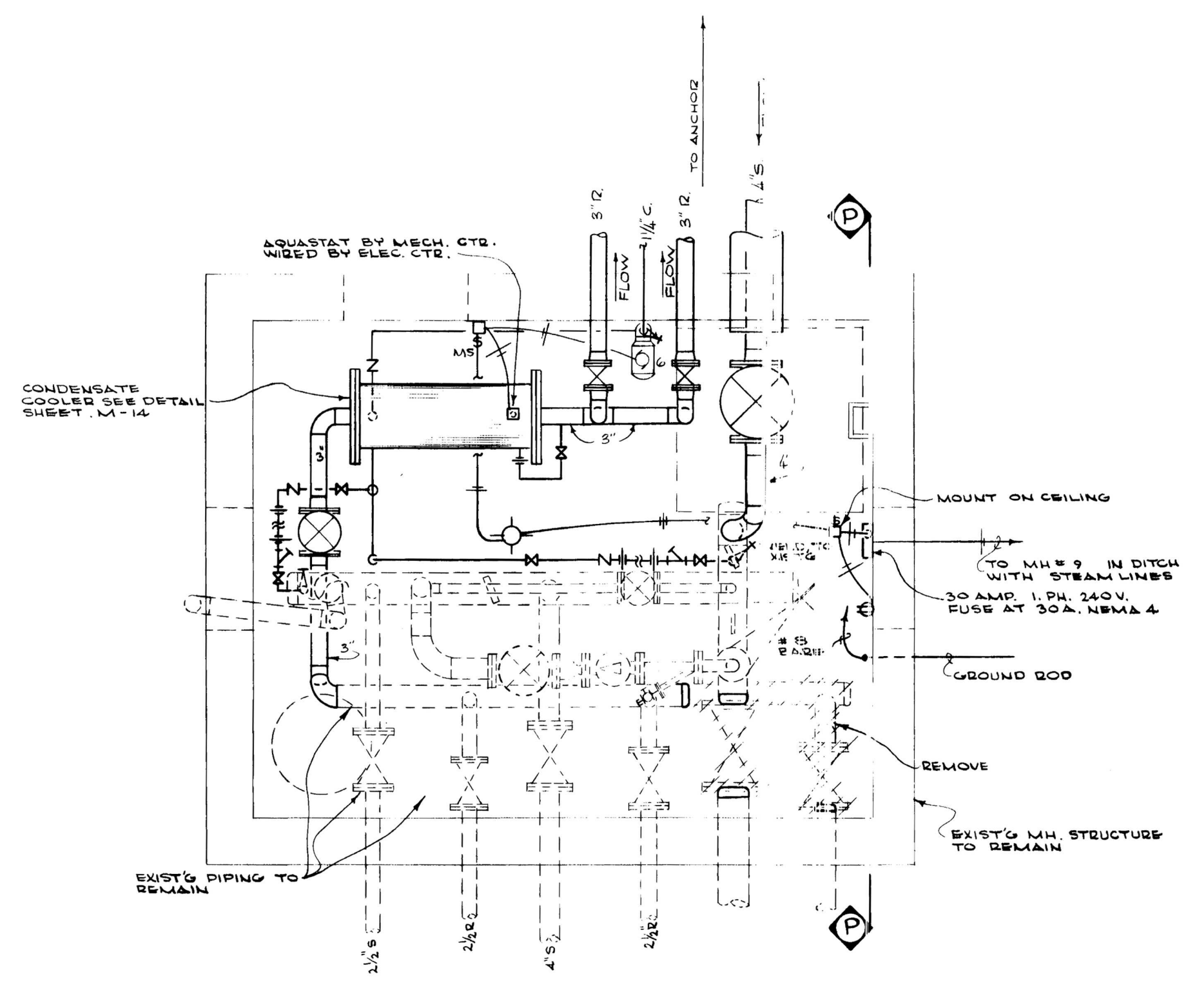
PROCTOR - DAVIS - RAY  
CONSULTING ENGINEERS INC  
LEXINGTON KENTUCKY

UNIVERSITY of KENTUCKY  
STEAM DISTRIBUTION  
INTERCONNECTION  
STEAM of PLANTS  
LEXINGTON KENTUCKY  
DETAILS - M.H. # 4 & UTILITY TUNNEL

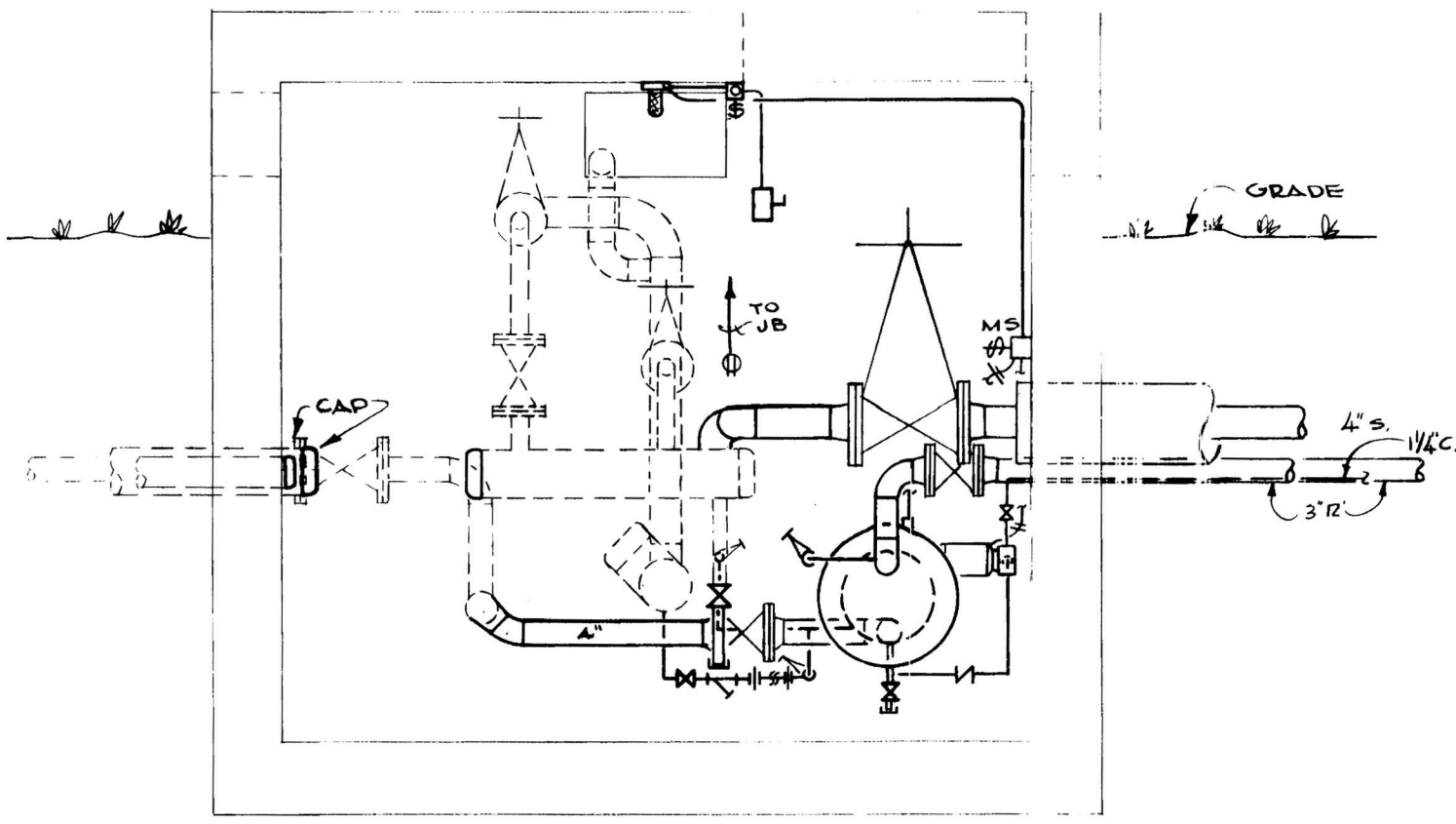
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revisions	SCALE 10/12 AS SHOWN VERT

Sheet no  
**M-9**  
Date: \_\_\_\_\_

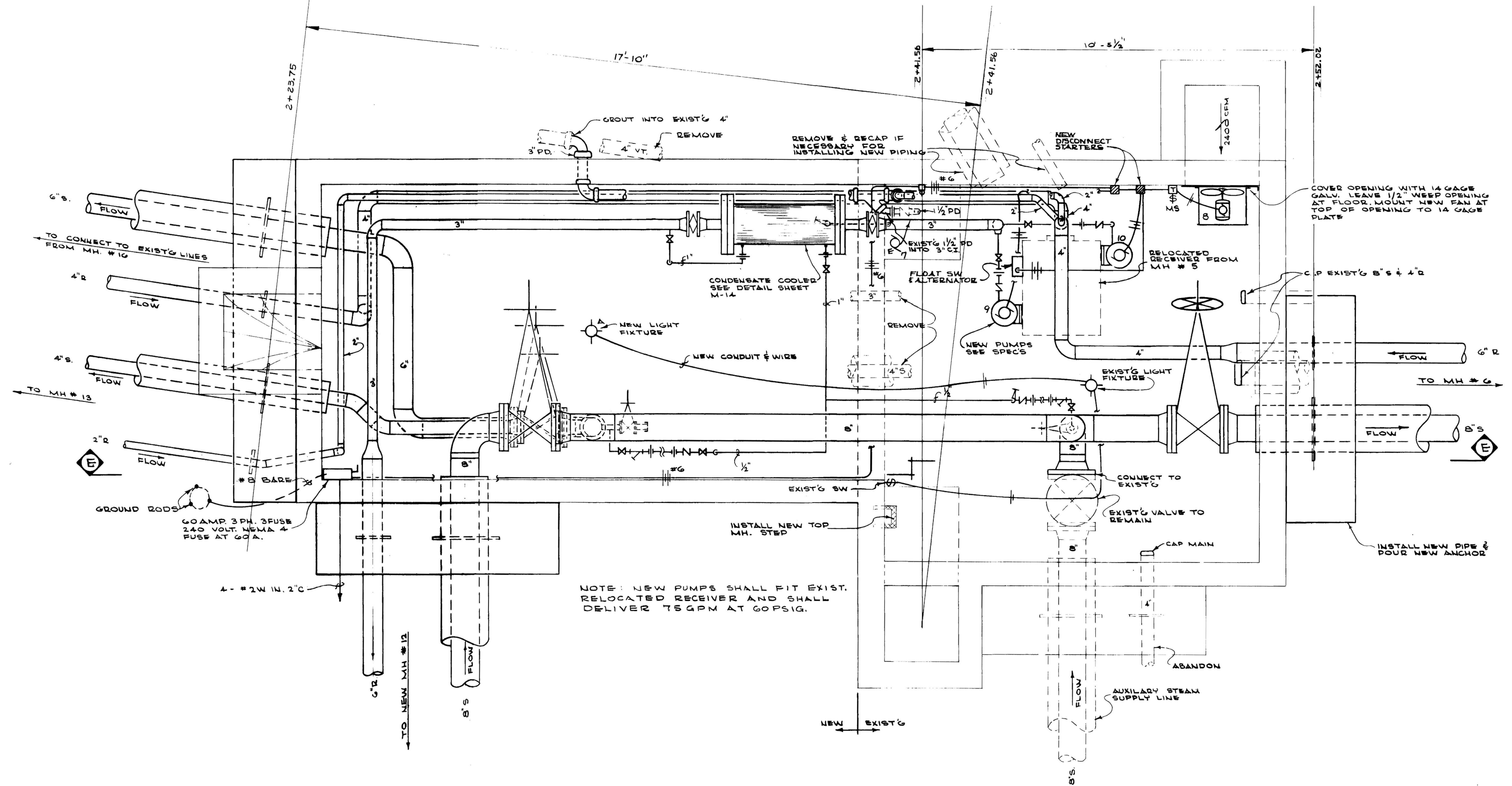




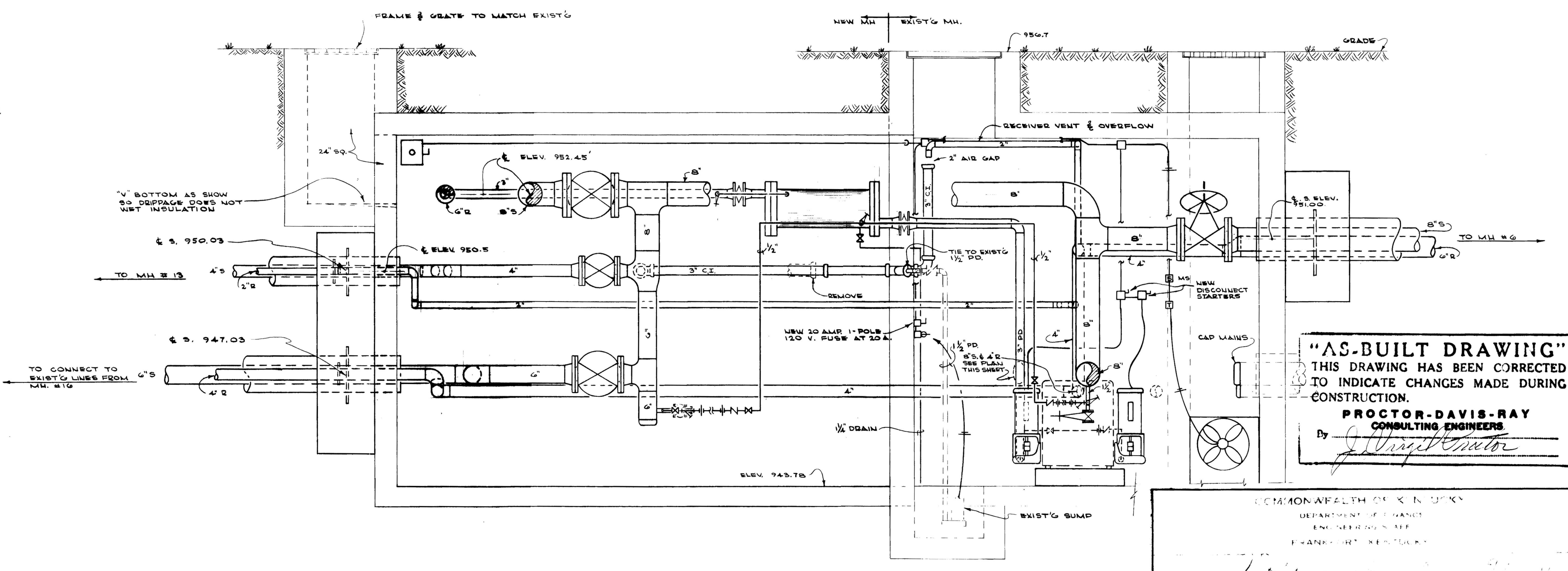
**PLAN OF REVISED MANHOLE - # 39**  
SCALE - 1/2" = 1'-0"



**SECTION - P - P**  
SCALE - 1/2" = 1'-0"



**PLAN OF EXISTING MANHOLE # 14**  
SCALE - 1/2" = 1'-0"



**SECTION E - E**  
SCALE - 1/2" = 1'-0"

**"AS-BUILT DRAWING"**  
THIS DRAWING HAS BEEN CORRECTED TO INDICATE CHANGES MADE DURING CONSTRUCTION.  
**PROCTOR-DAVIS-RAY**  
CONSULTING ENGINEERS  
By *[Signature]*

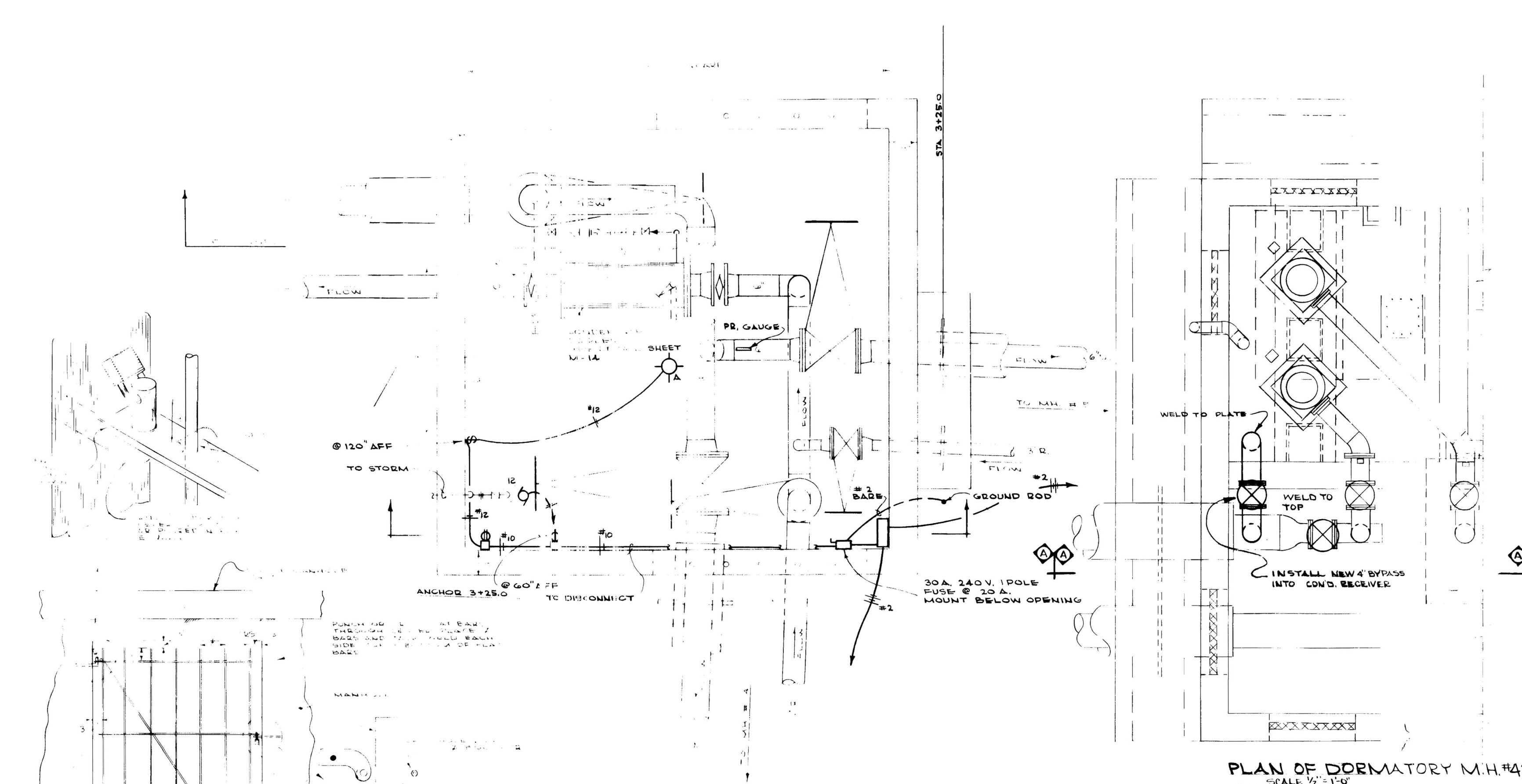
COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF REVENUE  
ENGINEERS' FILE  
FRANKFORT, KENTUCKY

APPROVED BY: \_\_\_\_\_  
AGENCY HEAD

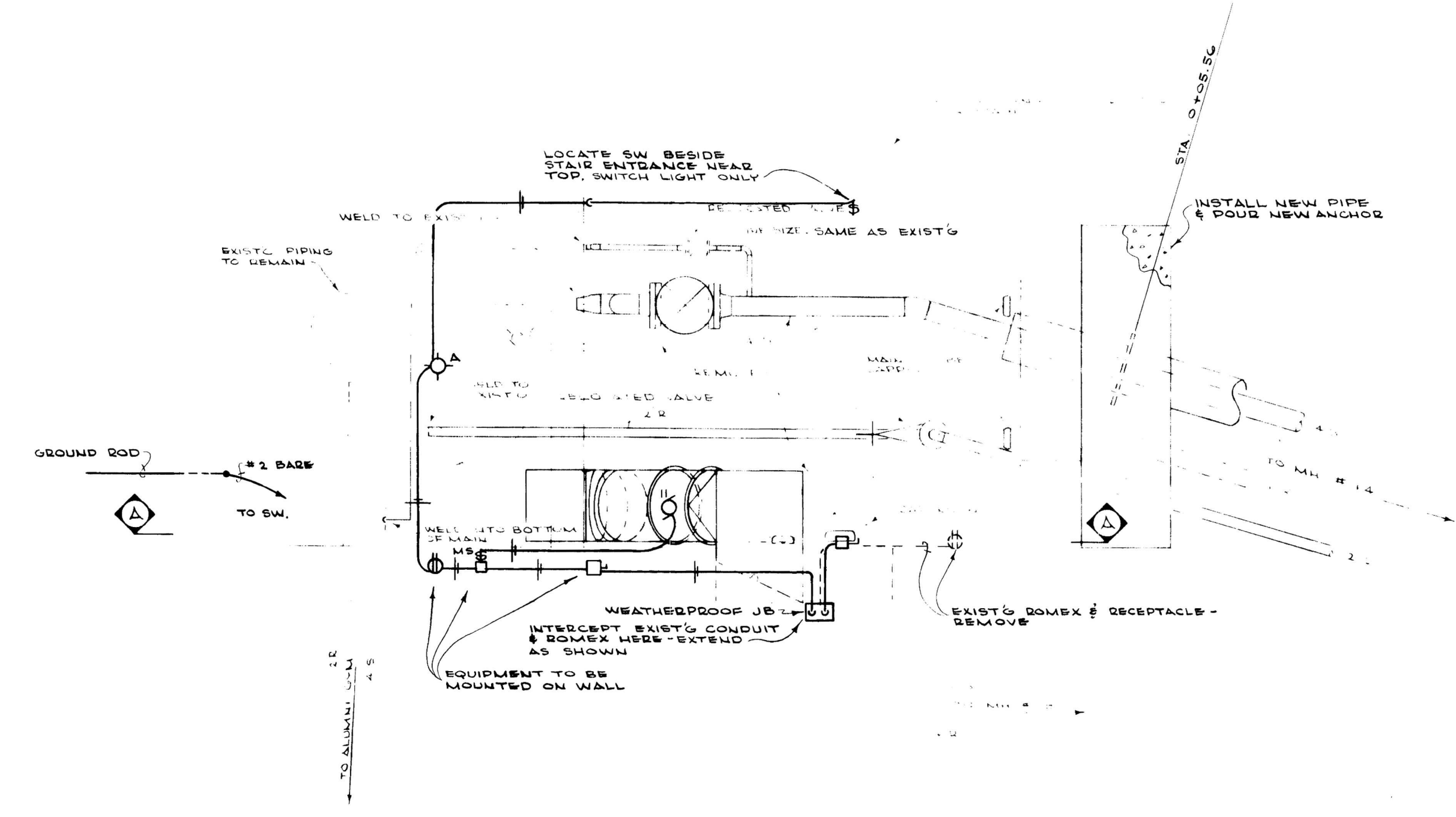
PROJECT NO. 12-9 DATE AUG. 23, 1971 JOB NO. 7093 SCALE 1/8" = 1'-0" REVISIONS	DRAWN P.C.G./D.B.B. CHECKED J.V.P.	<b>PROCTOR-DAVIS-RAY</b> CONSULTING ENGINEERS INC. LEXINGTON, KENTUCKY
	PROJECT NO. 12-9 DATE AUG. 23, 1971 JOB NO. 7093 SCALE 1/8" = 1'-0" REVISIONS	

Sheet No. **M-10**

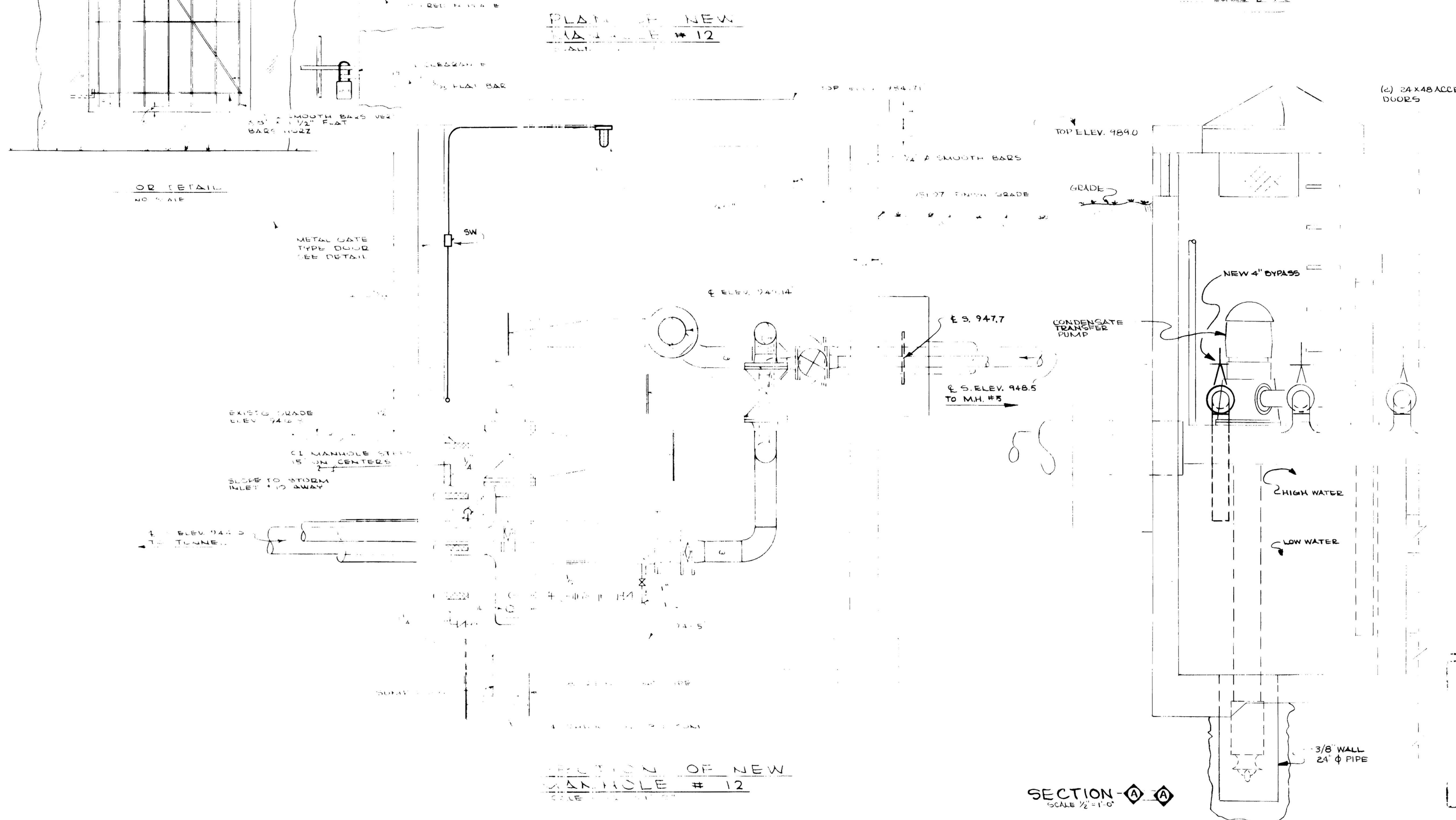




PLAN OF DORMATORY M.H.#42  
SCALE 1/2" = 1'-0"

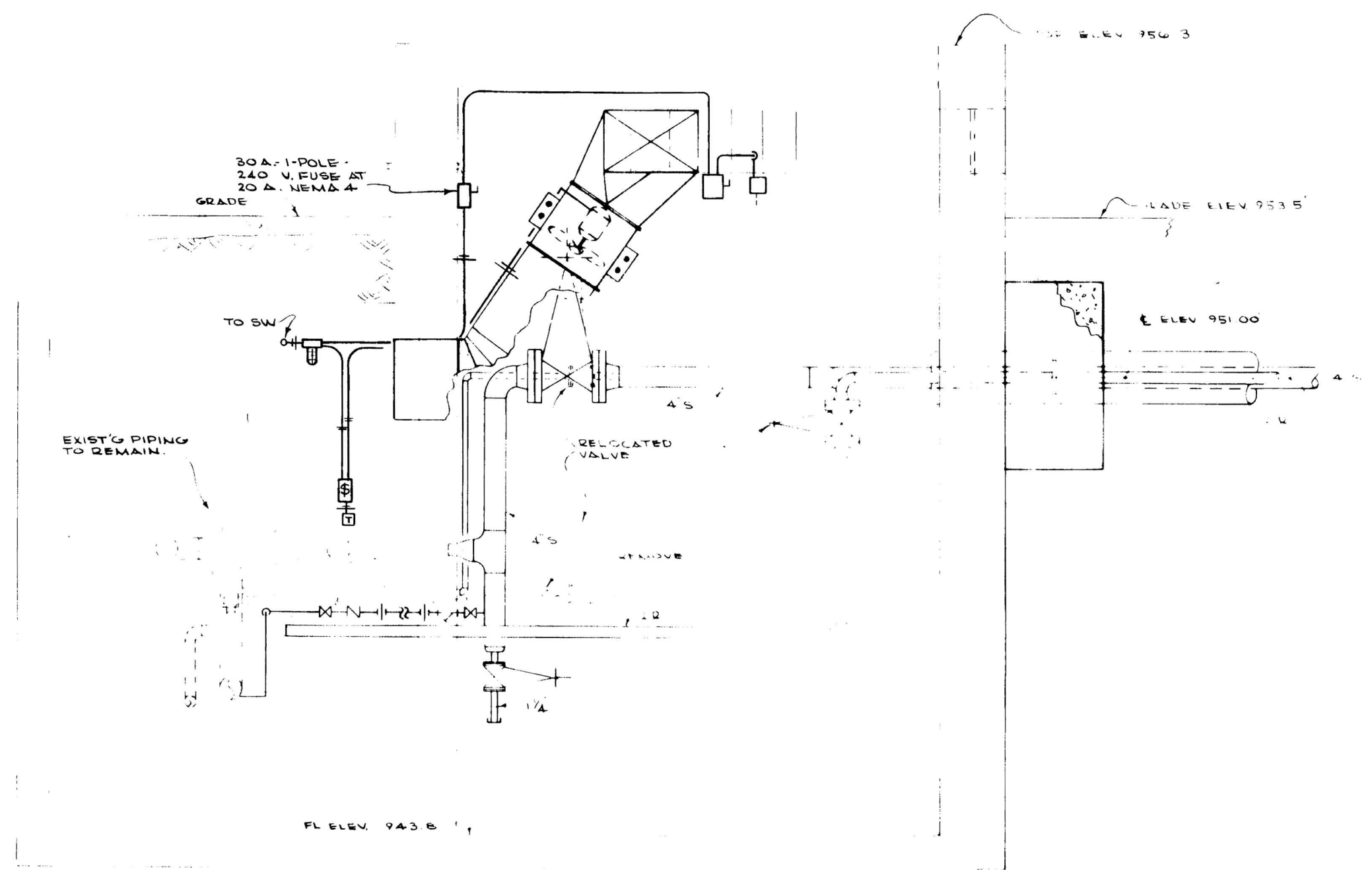


PLAN OF REVISED MANHOLE #13  
SCALE 1/2" = 1'-0"



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

**"AS-BUILT DRAWING"**  
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**PROCTOR-DAVIS-RAY**  
CONSULTING ENGINEERS  
By *J. Marshall*

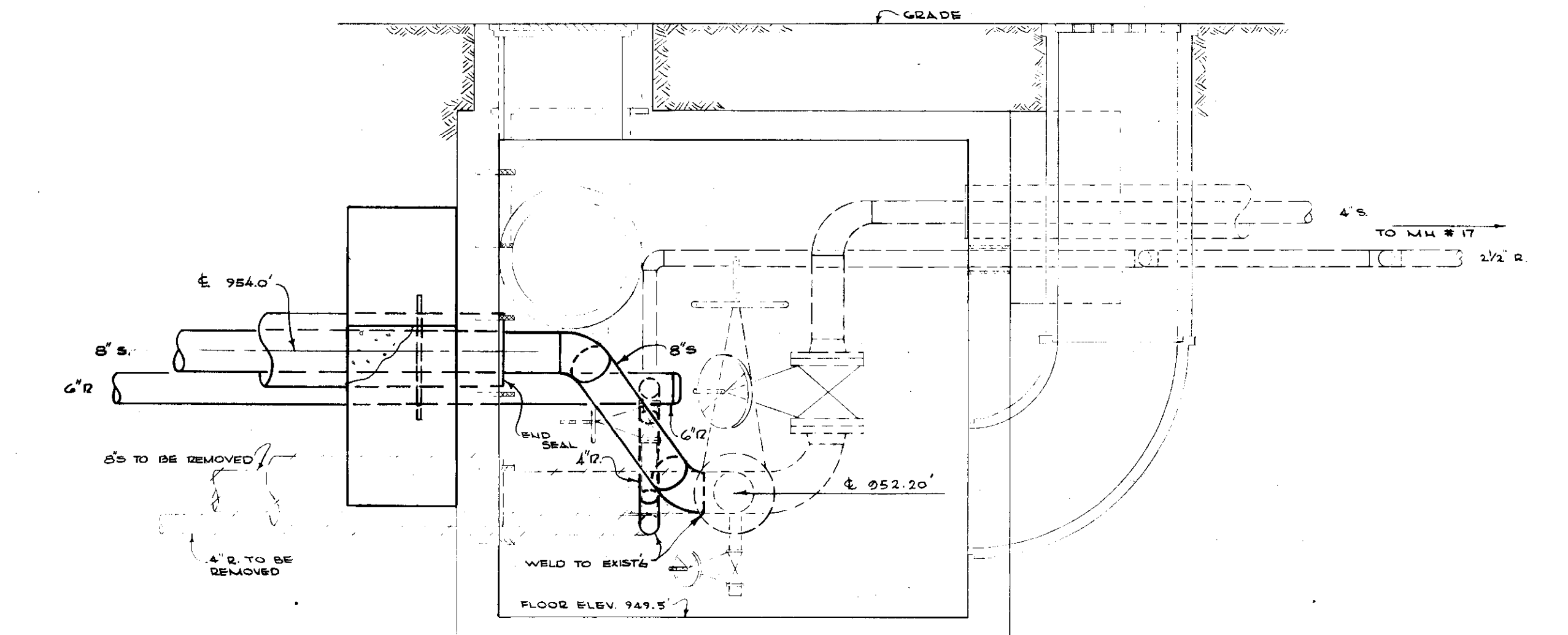
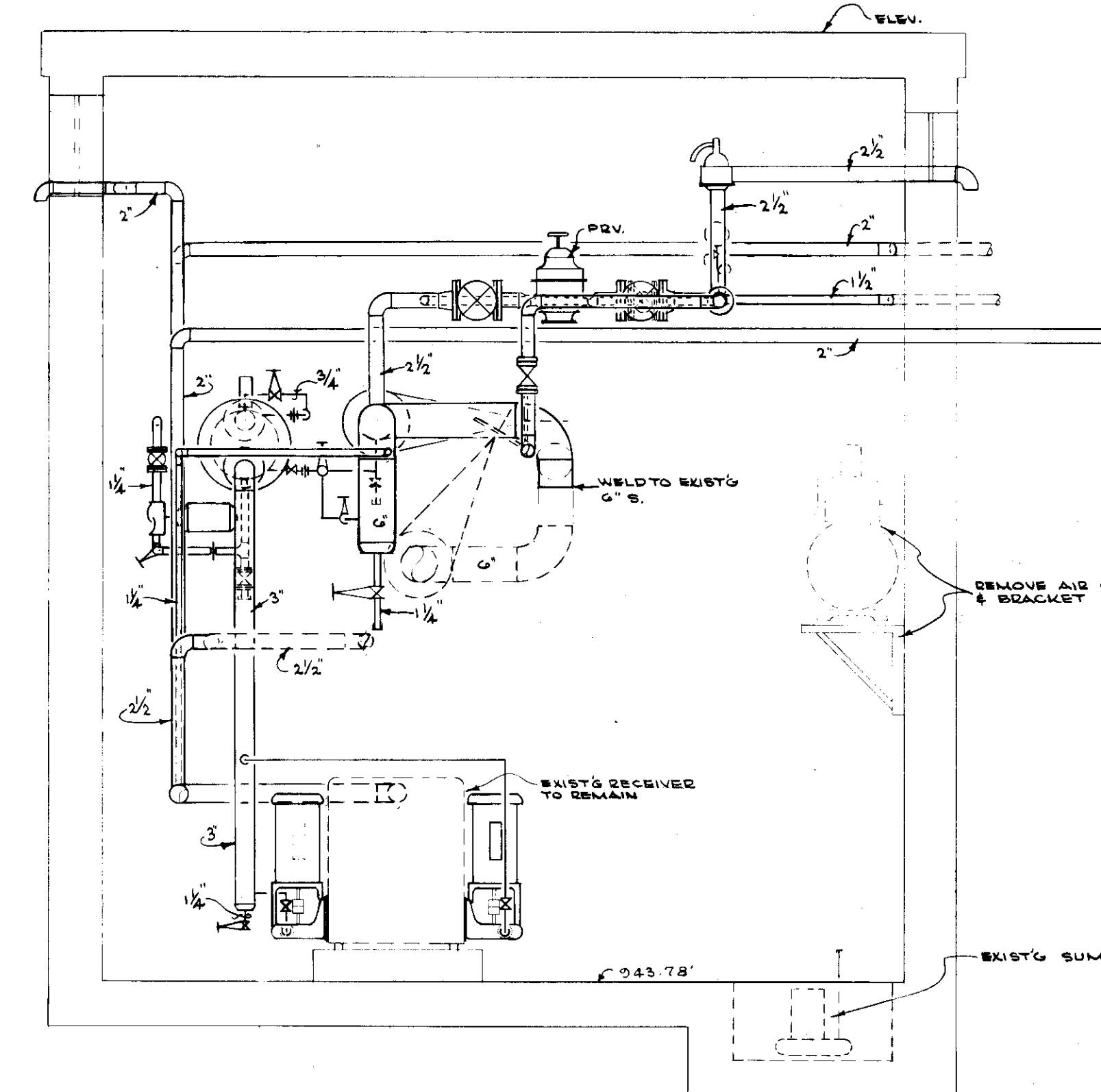
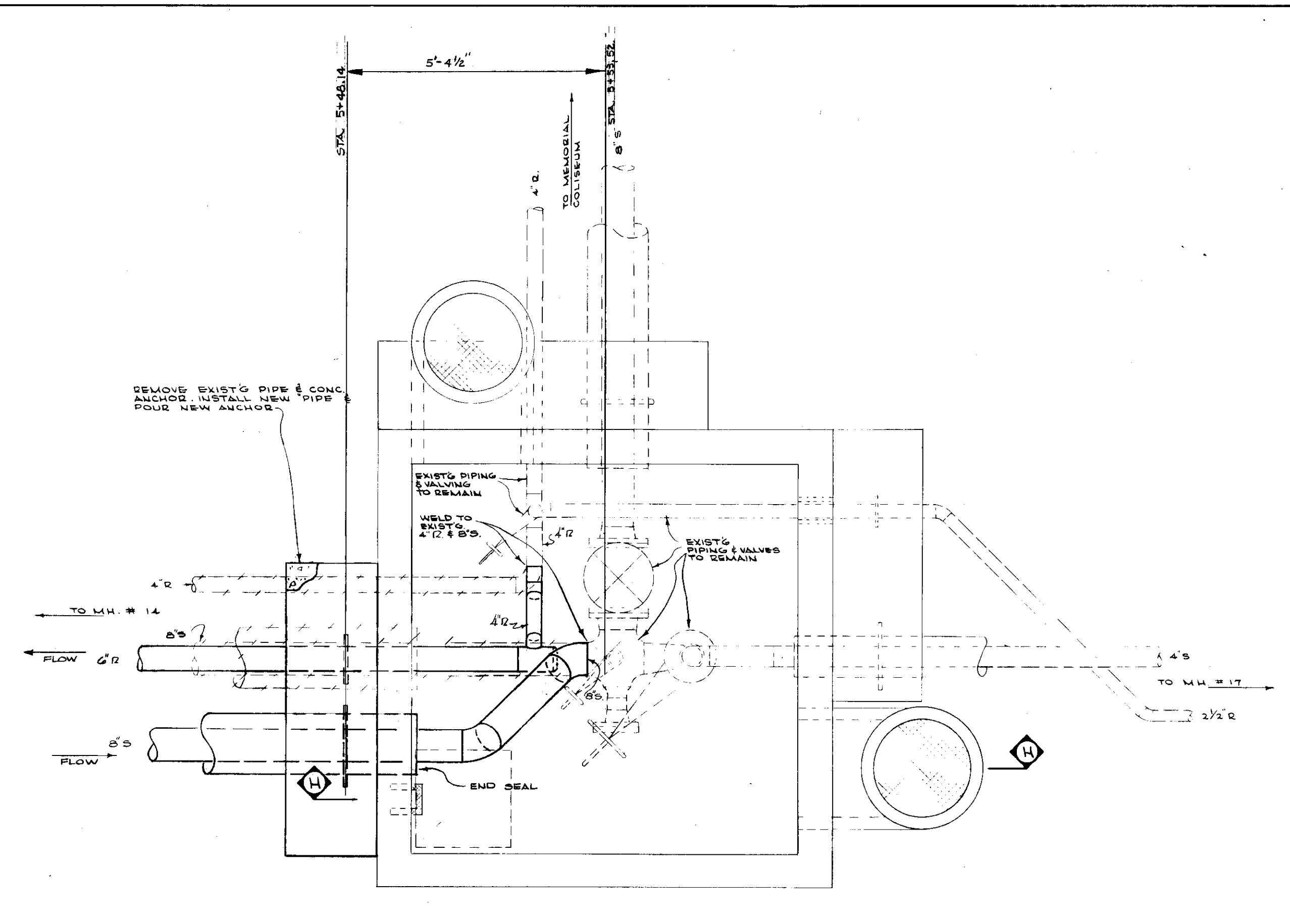
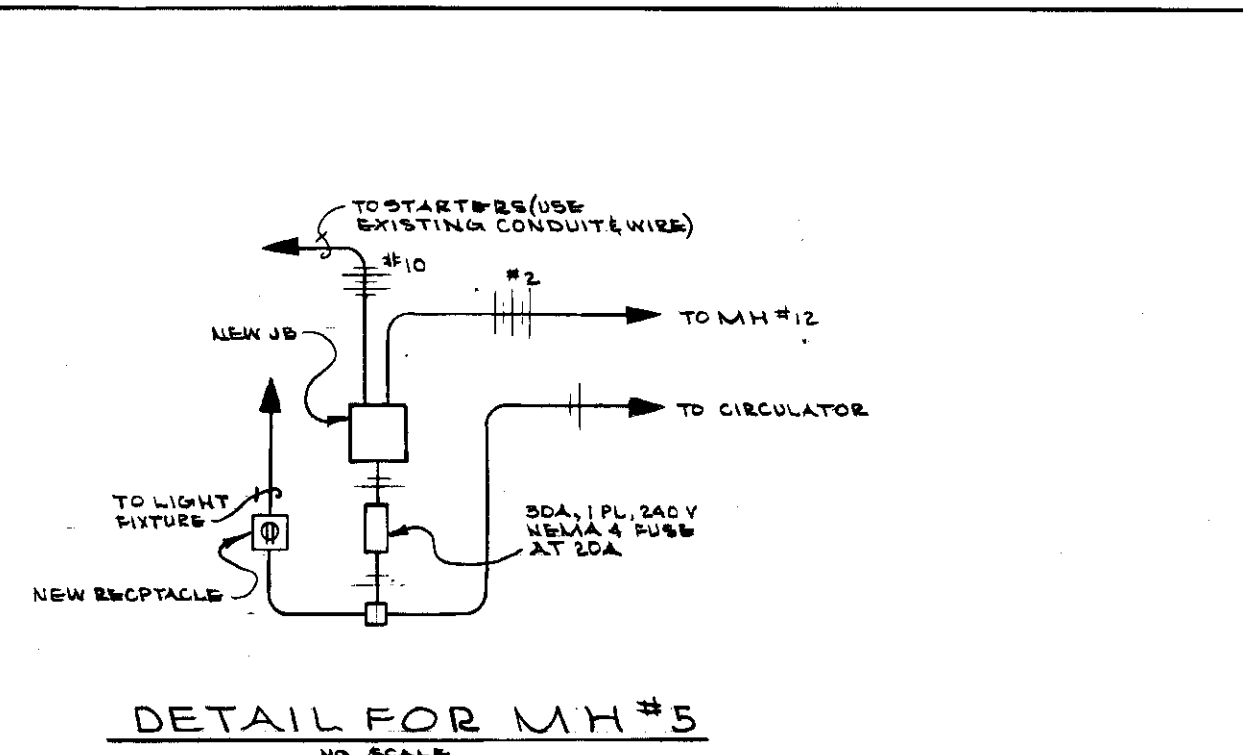
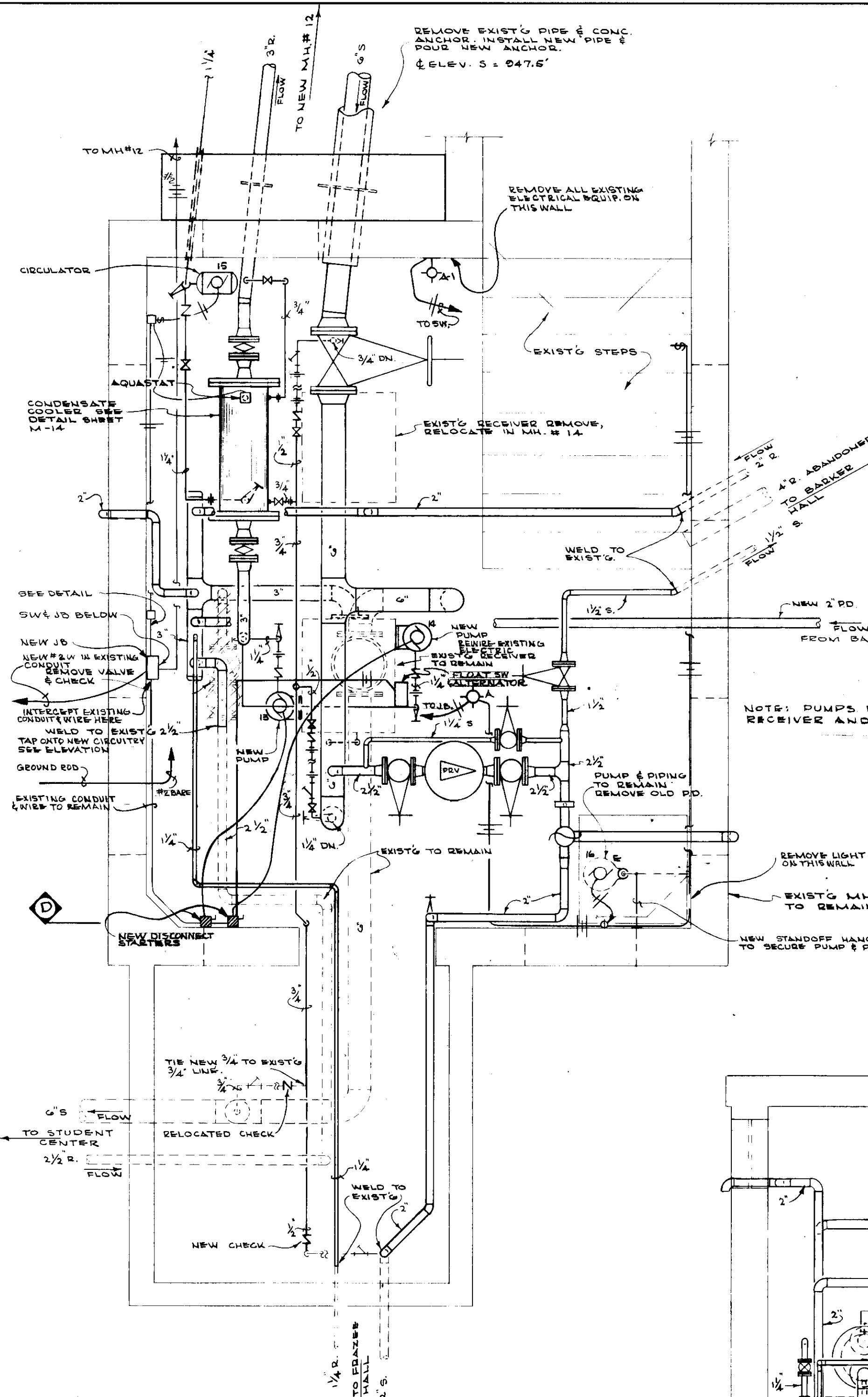


SECTION - A - A  
SCALE 1/2" = 1'-0"

COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF FINANCE  
ENGINEERING STAFF  
FRANKFORT, KENTUCKY  
APPROVED BY *J. Marshall* DATE 9/7/71  
AGENCY HEAD  
CHIEF OF STAFF

		PROJECT NO 12 S DATE AUG 23 1971 JOB NO. 7039 REVISIONS		DRAWN: PCE & DAB CHECKED: JVP SCALE: HORIZ: AS SHOWN VERT: 1" = 1'-0"
UNIVERSITY OF KENTUCKY STEAM DISTRIBUTION INTERCONNECTION STEAM OF PLANTS LEXINGTON, KENTUCKY		DETAILS - M.H. # 12 & M.H. # 13		PROCTOR DAVIS-RAY CONSULTING ENGINEERS INC LEXINGTON, KENTUCKY



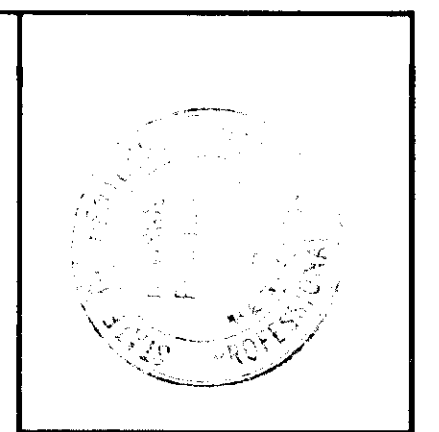


**"AS-BUILT DRAWING"**  
 THIS DRAWING HAS BEEN CORRECTED TO INDICATE CHANGES MADE DURING CONSTRUCTION.  
**PROCTOR-DAVIS-RAY**  
 CONSULTING ENGINEERS  
 By *J. Proctor*

COMMONWEALTH OF KENTUCKY  
 DEPARTMENT OF FINANCE  
 ENGINEERING STAFF  
 FRANKFORT, KENTUCKY

APPROVED BY: *J. Marshall* DATE: 9/7/71  
 AGENCY HEAD

APPROVED BY: *[Signature]* DATE: *[Date]*  
 CHIEF OF STAFF



**PROCTOR-DAVIS-RAY**  
 CONSULTING ENGINEERS, INC.  
 LEXINGTON, KENTUCKY

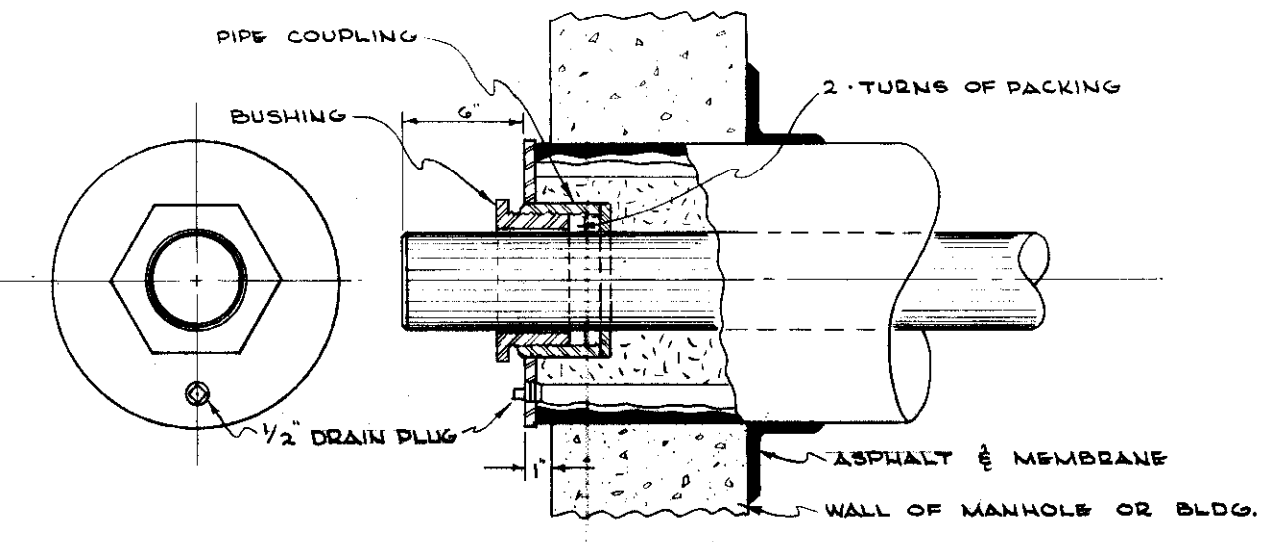
UNIVERSITY OF KENTUCKY  
 STEAM DISTRIBUTION  
 INTERCONNECTION  
 OF PLANTS  
 LEXINGTON, KENTUCKY

DETAILS - MH. # 5 & MH. # 6

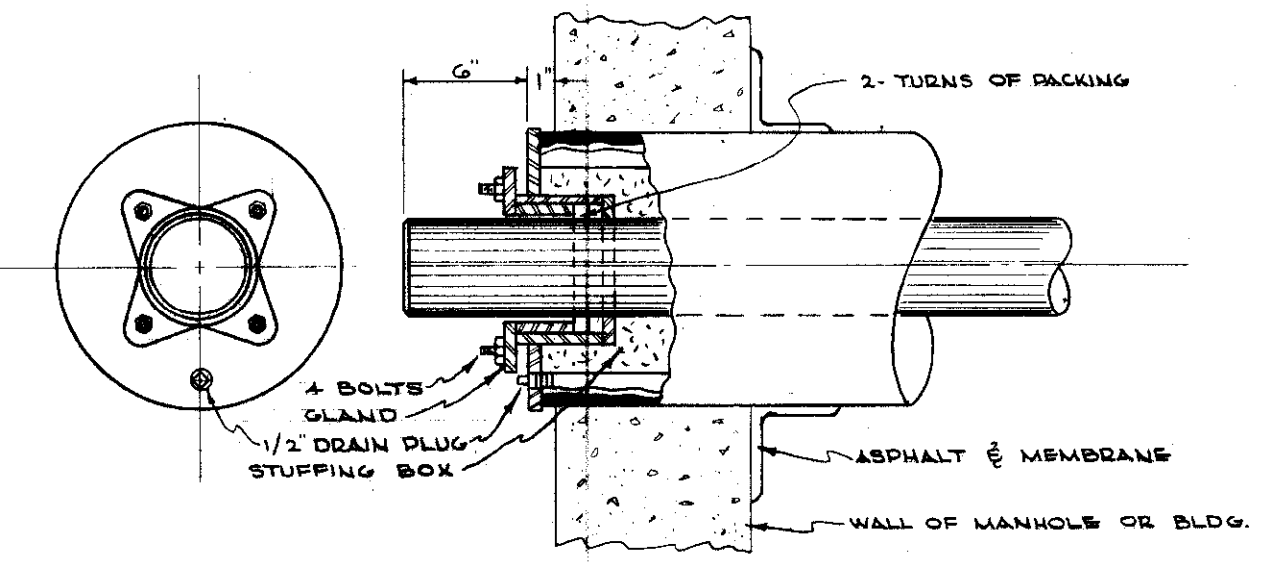
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date: AUG 23 1971	checked: JVP
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revisions	horiz: AS SHOWN
	vert:

Sheet no: **M-12** of 15  
 Cab # 1511  
 A-2

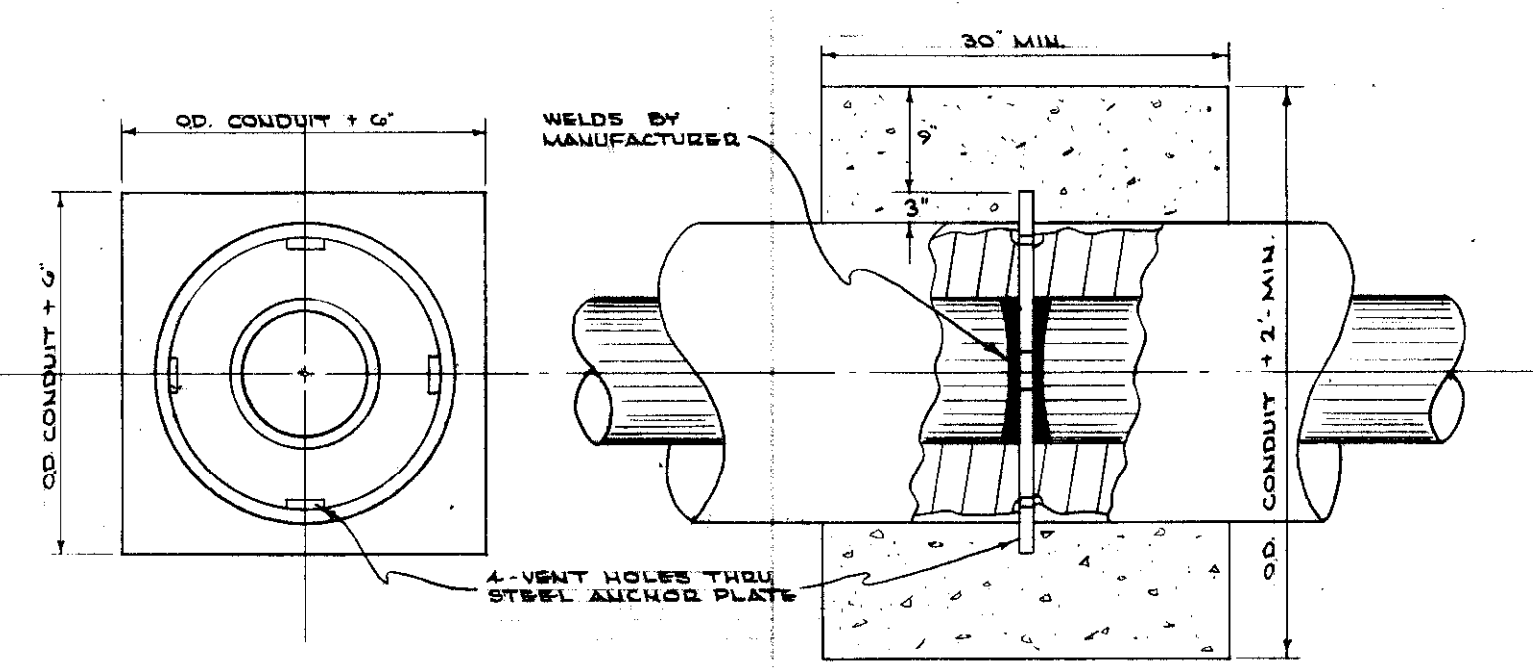




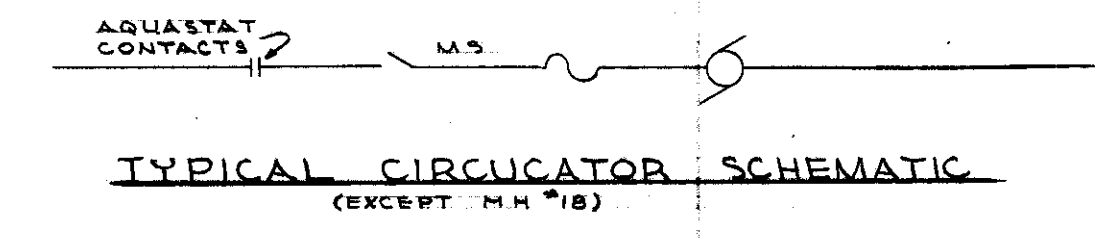
**TYPE A GLAND SEAL FOR 5" PIPE OR SMALLER**  
NO SCALE



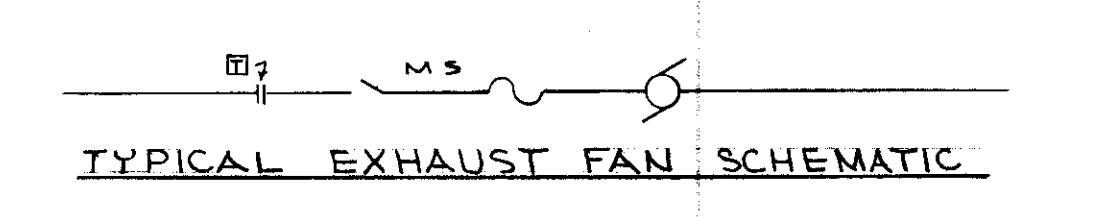
**TYPE B GLAND SEAL FOR 6" PIPE OR LARGER**  
NO SCALE



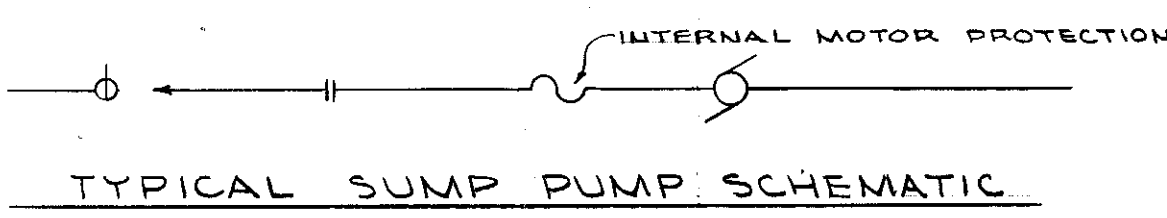
**DETAIL OF TYPICAL FIELD ANCHOR**  
NO SCALE



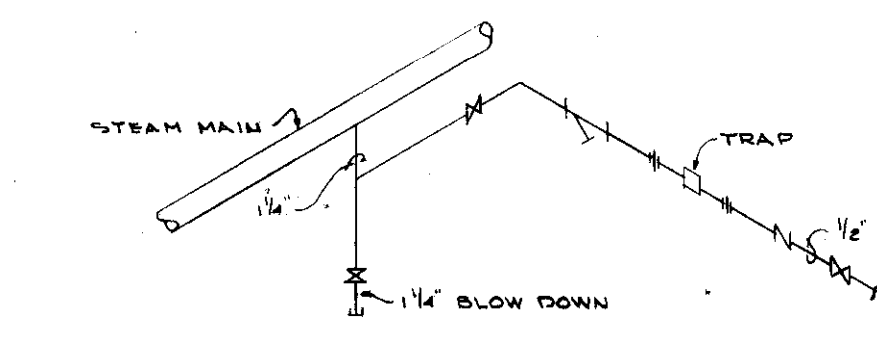
**TYPICAL CIRCULATOR SCHEMATIC**  
(EXCEPT M.H.#18)



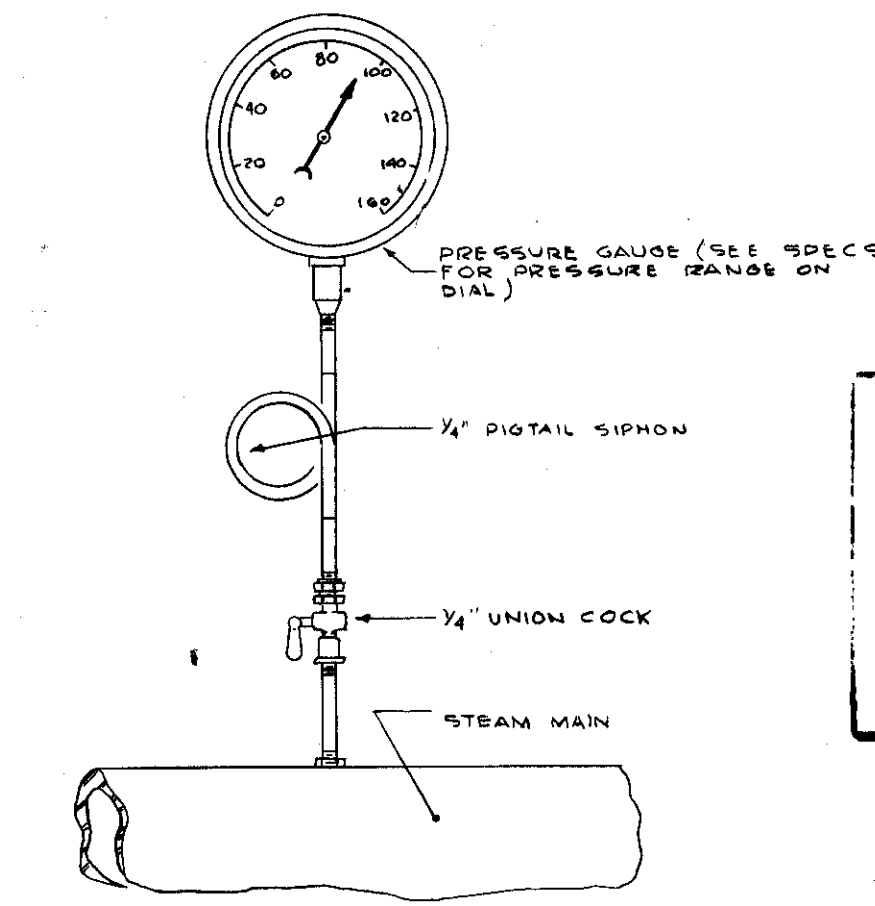
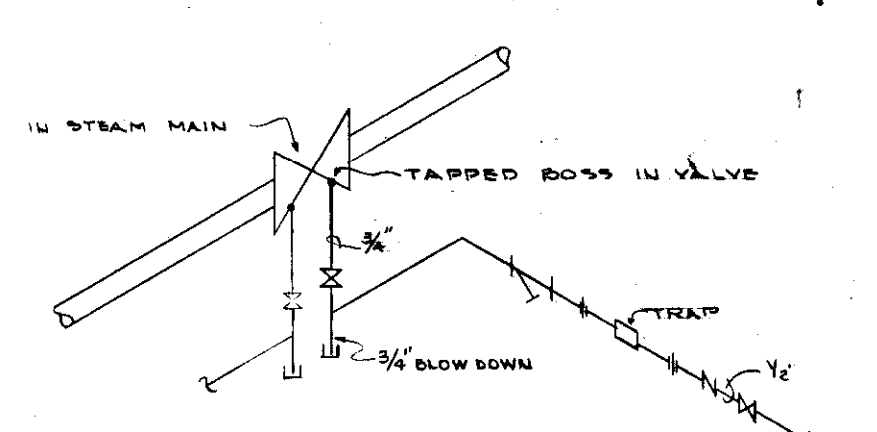
**TYPICAL EXHAUST FAN SCHEMATIC**



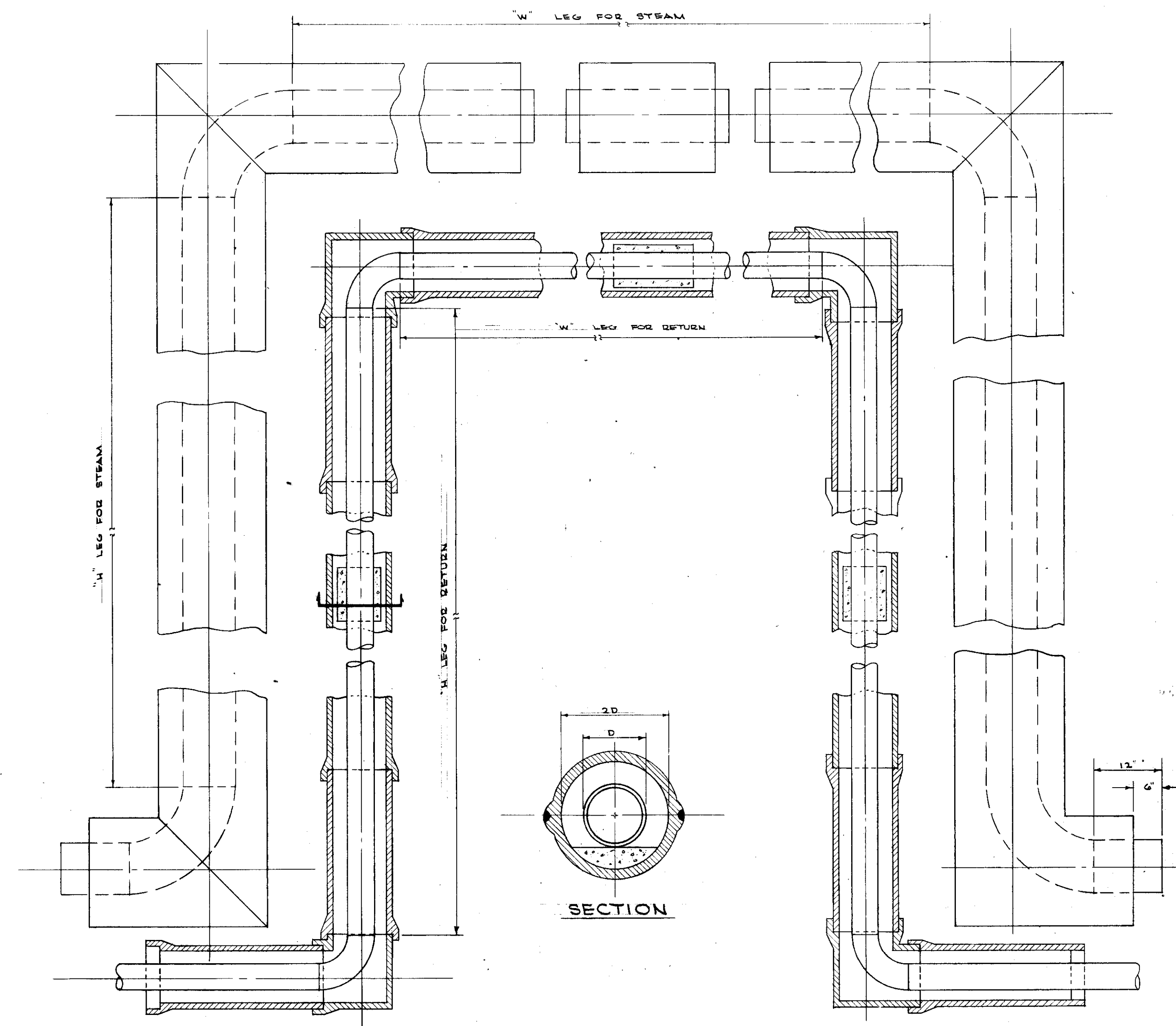
**TYPICAL SUMP PUMP SCHEMATIC**



**HIGH PRESSURE DRIPS (EMD)**  
NO SCALE

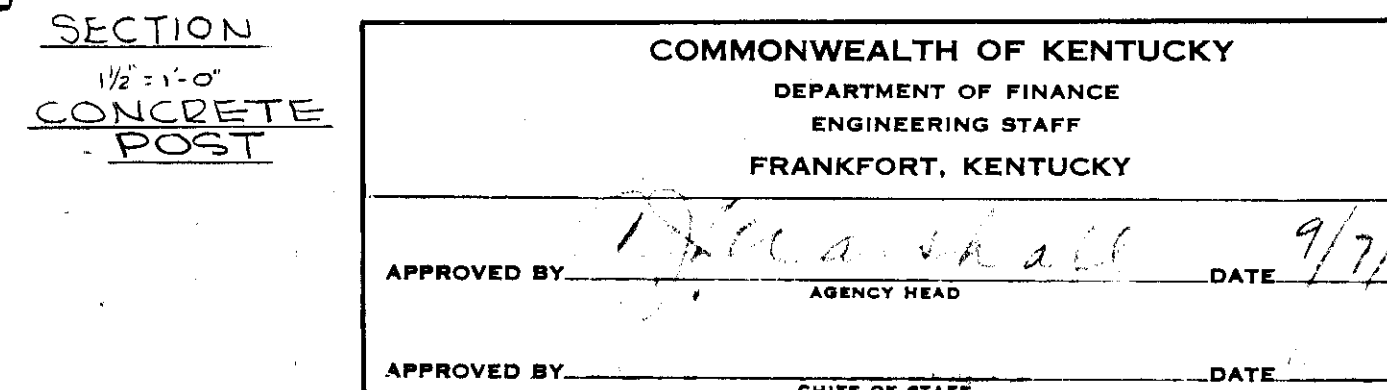
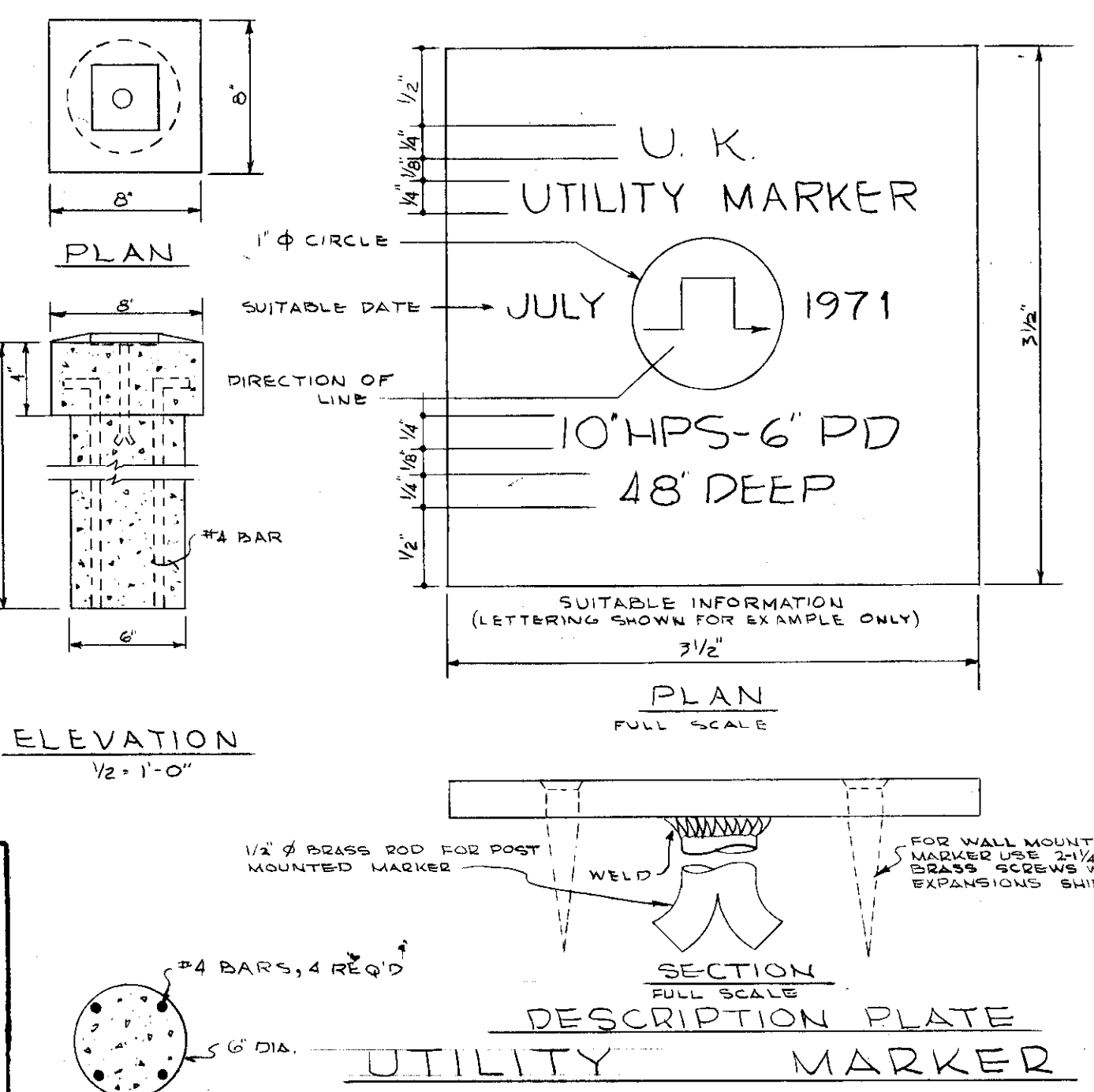


**PRESSURE GAUGE DETAIL**  
NO SCALE



**TYPICAL EXPANSION LOOP DETAIL**  
NO SCALE

LOOP NUMBER	SIZE & SCHEDULE	STATION	STEAM				RETURN				
			INS EXPN	FT. L	FT. W	FT. H	INS RETN	FT. L	FT. W	FT. H	
1	10'-40 6"-80		5.72	42'	6'-10"	17'-7"	2 3/8"		44'-6"	4'-4"	20'-2"
2	10'-40 6"-80		5.72	42'	2'-0"	17'-7"	2 3/8"		63'-8"	23'-0"	20'-2"
3	10'-40 6"-80		7.92	54'	9'-2"	22'-5"	4"		56'-6"	2'-8"	24'-11"
4	10'-40 6"-80		6.89	49'	8'-2"	20'-5"	3 1/2"		51'-6"	5'-8"	22'-11"
5	10'-40 6"-80		5.13	3'-8"	6'	10'	2 1/2"		50'-6"	3'-0"	18'-6"
6	10'-40 6"-80		6.01	23'	11'-10"	5'-7"	3"		27'-4"	1'-0"	5'-8"
7	10'-40 6"-80		6.45	42'	22'-4"	9'-10"	3 1/4"		50'	28'-4"	10'-10"
8	10'-40 6"-80		9.09	52'	27'-4"	12'-4"	4 1/2"		60'	33'-4"	13'-4"
9	10'-40 6"-80		7.03	43'	22'-8"	10'-2"	3 1/2"		50'	27'-8"	11'-2"
10	10'-40 6"-80		2.25	18'	10'-4"	3'-10"	1 7/8"		17'	7'-4"	4'-10"
11	10'-40 6"-80		3.93	32'	17'-4"	7'-4"	2"		31'	14'-4"	8'-4"
12	10'-40 6"-80		4.80	37'	19'-8"	8'-8"	2 1/2"		36'	16'-8"	9'-8"
13	10'-40 6"-80		3.67	19'	10'	4'-0"	1 7/8"		24'-6"	14'-6"	5'
14	10'-40 6"-80		5.28	25'	13'	6'	2 3/8"		22'-6"	9'-6"	6'-6"
15	10'-40 6"-80		4.63	31'	16'-2"	7'-3"	2 3/8"		28'-6"	13'	7'-9"
16	10'-40 6"-80		9.42	40'	21'	9'-6"	4 3/4"		37'-6"	17'-6"	10'
17	10'-40 6"-80		5.7	31'	16'-2"	7'-5"	2 3/8"		29'-4"	13'	8'-2"
18	10'-40 6"-80		6.13	38'	20'	9'	3"		43'-6"	24'-6"	9'-6"
19	10'-40 6"-80		7.03	37'	19'-4"	8'-10"	3 1/2"		43'-4"	24'	9'-8"
20	10'-40 6"-80		6.6	28'	14'-0"	6'-9"	3 1/2"		25'-6"	11'	7'-3"
21	10'-40 6"-80		8.87	47'	24'-0"	11'-3"	4 1/2"		44'-6"	21'	11'-9"



**"AS-BUILT DRAWING"**  
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**PROCTOR-DAVIS-RAY**  
CONSULTING ENGINEERS  
By *[Signature]*

**COMMONWEALTH OF KENTUCKY**  
DEPARTMENT OF FINANCE  
ENGINEERING STAFF  
FRANKFORT, KENTUCKY

APPROVED BY: *[Signature]* DATE: 9/7/71  
AGENCY HEAD

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
CHIEF OF STAFF

**PROCTOR-DAVIS-RAY**  
CONSULTING ENGINEERS, INC.  
LEXINGTON, KENTUCKY

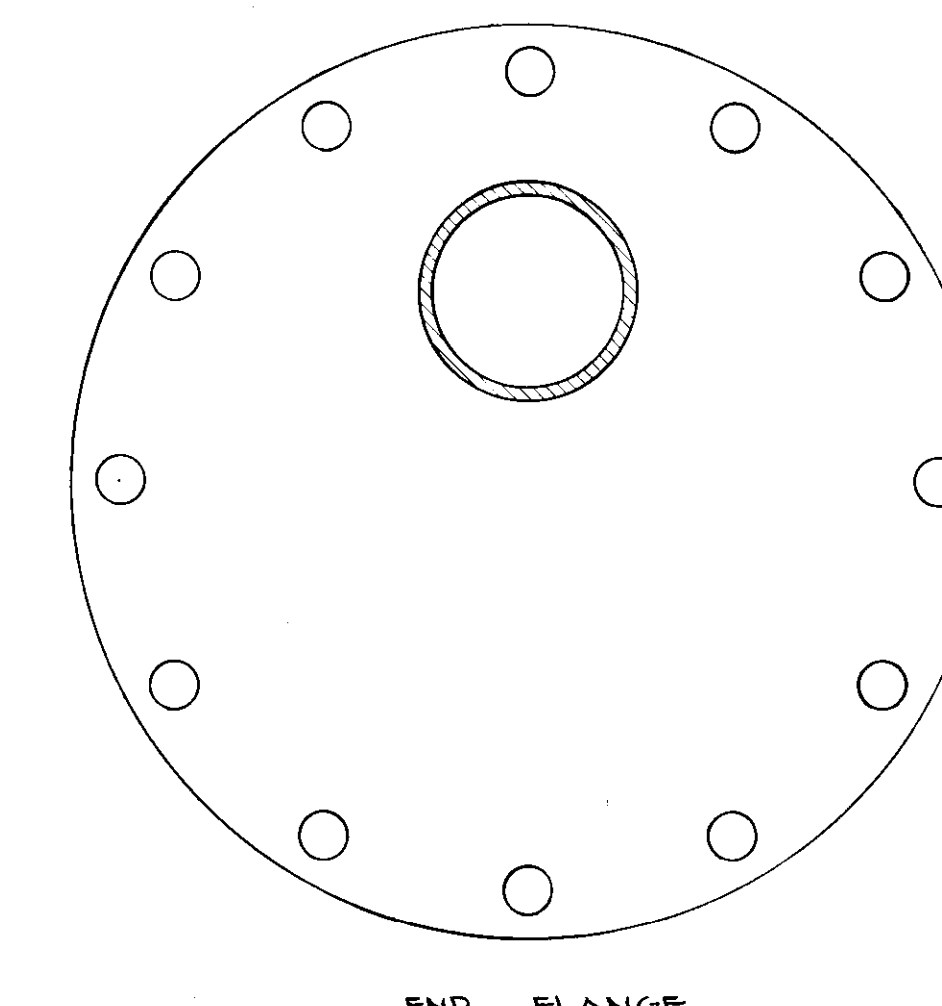
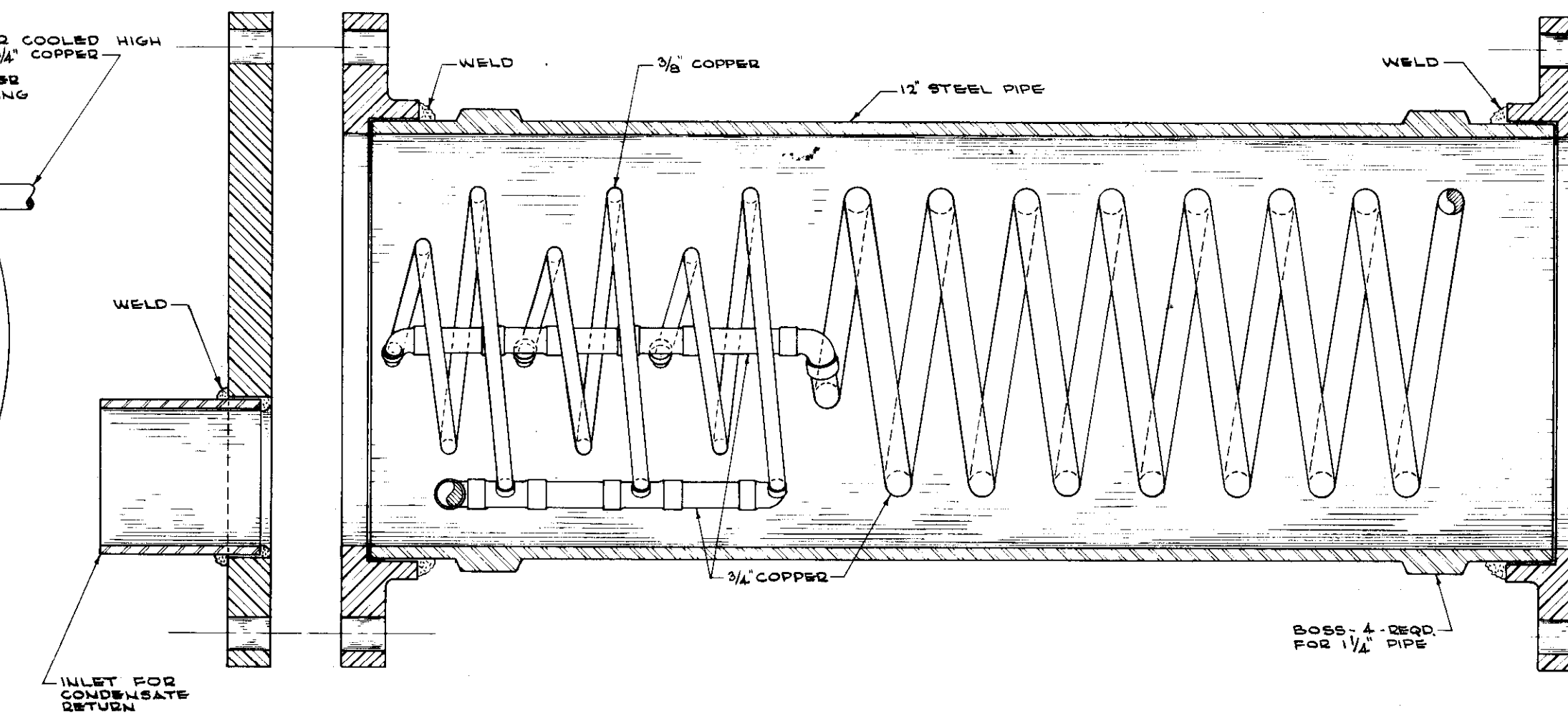
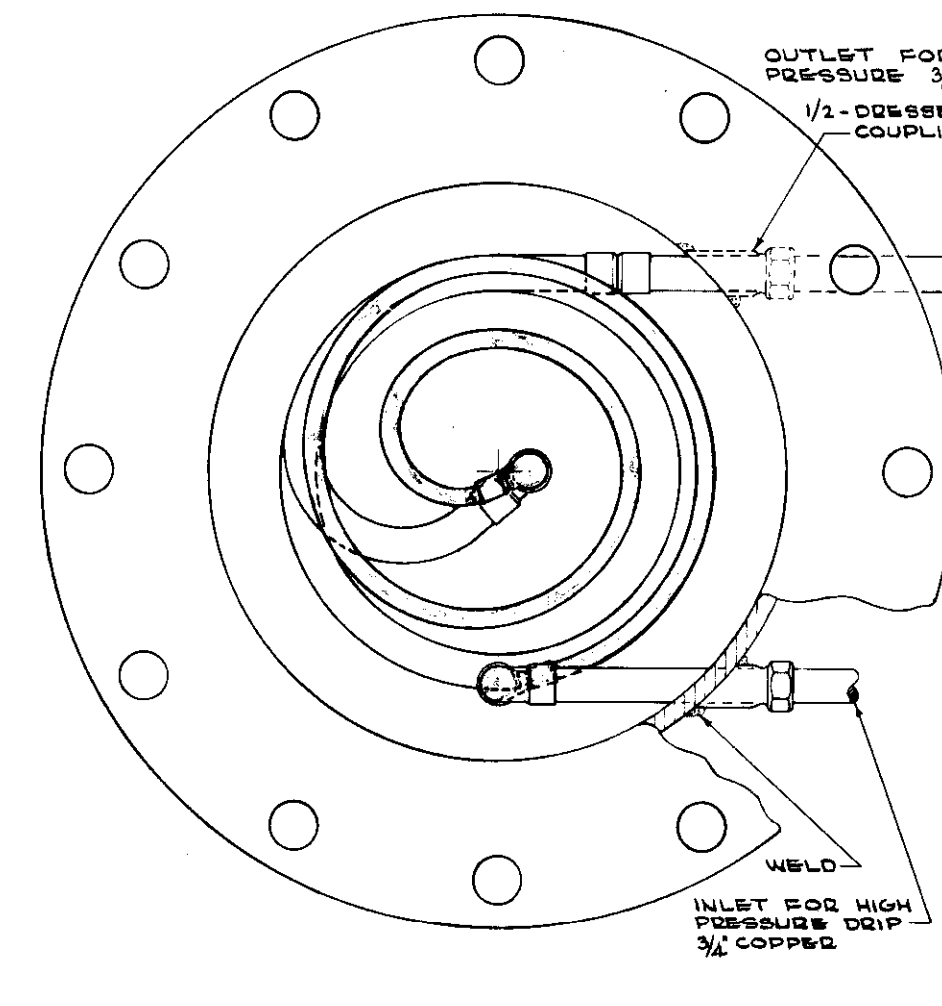
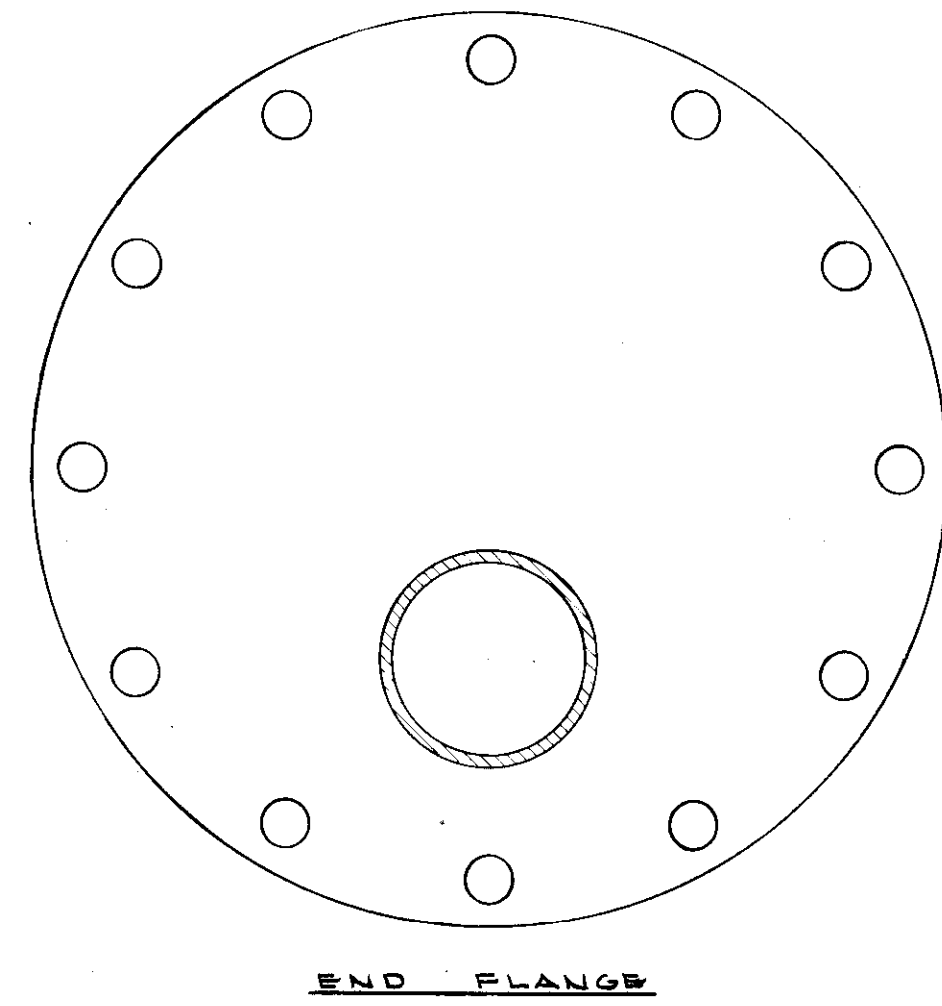
UNIVERSITY OF KENTUCKY  
STEAM DISTRIBUTION  
INTERCONNECTION  
STEAM OF PLANTS  
LEXINGTON, KENTUCKY

drawn: PCG & DEB  
checked: JVP  
scale: AS SHOWN  
horz: AS SHOWN  
vert: DETAILS

project no: 12 S  
date: AUG. 23 1971  
job no: 7033

sheet no: **M-13**  
revisions: \_\_\_\_\_

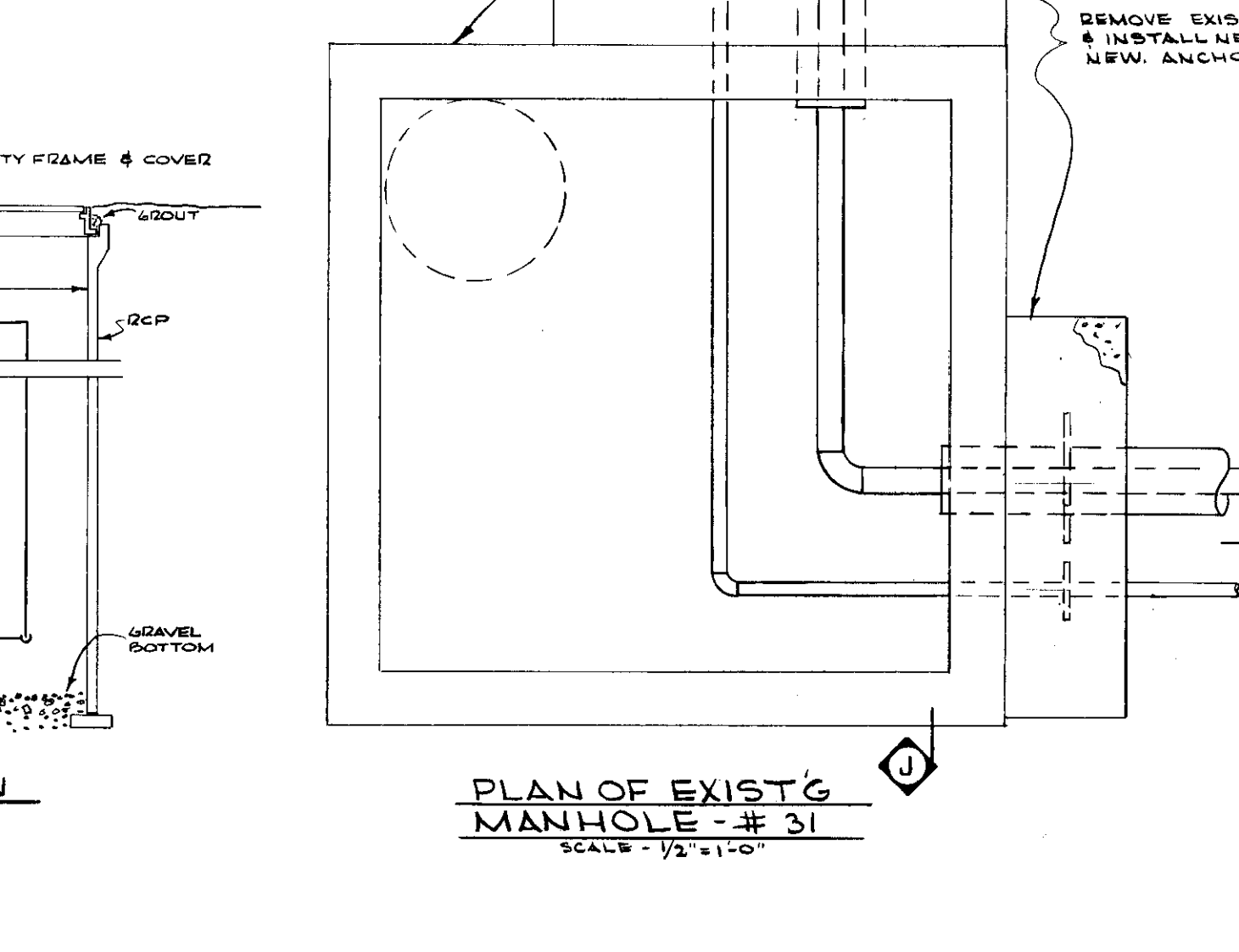
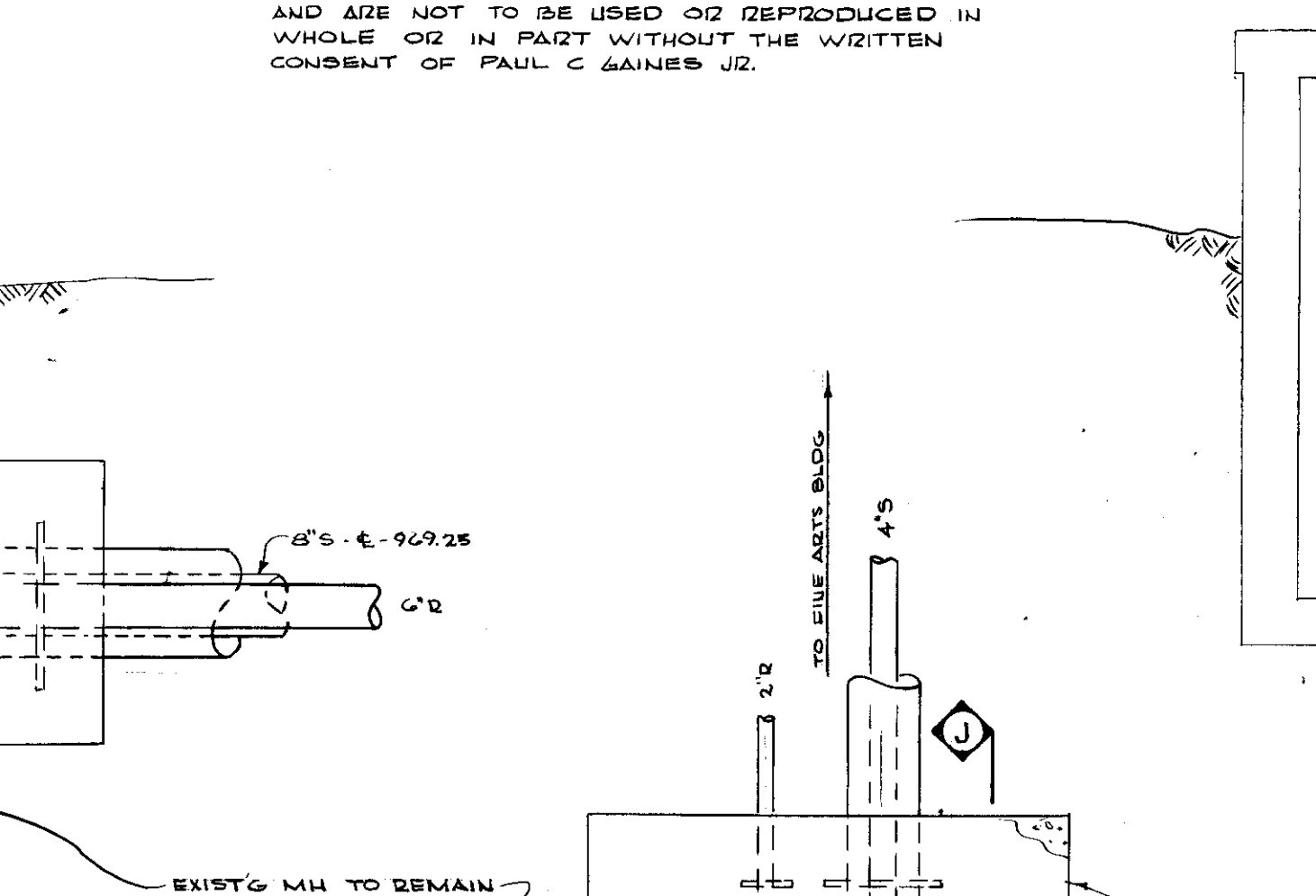
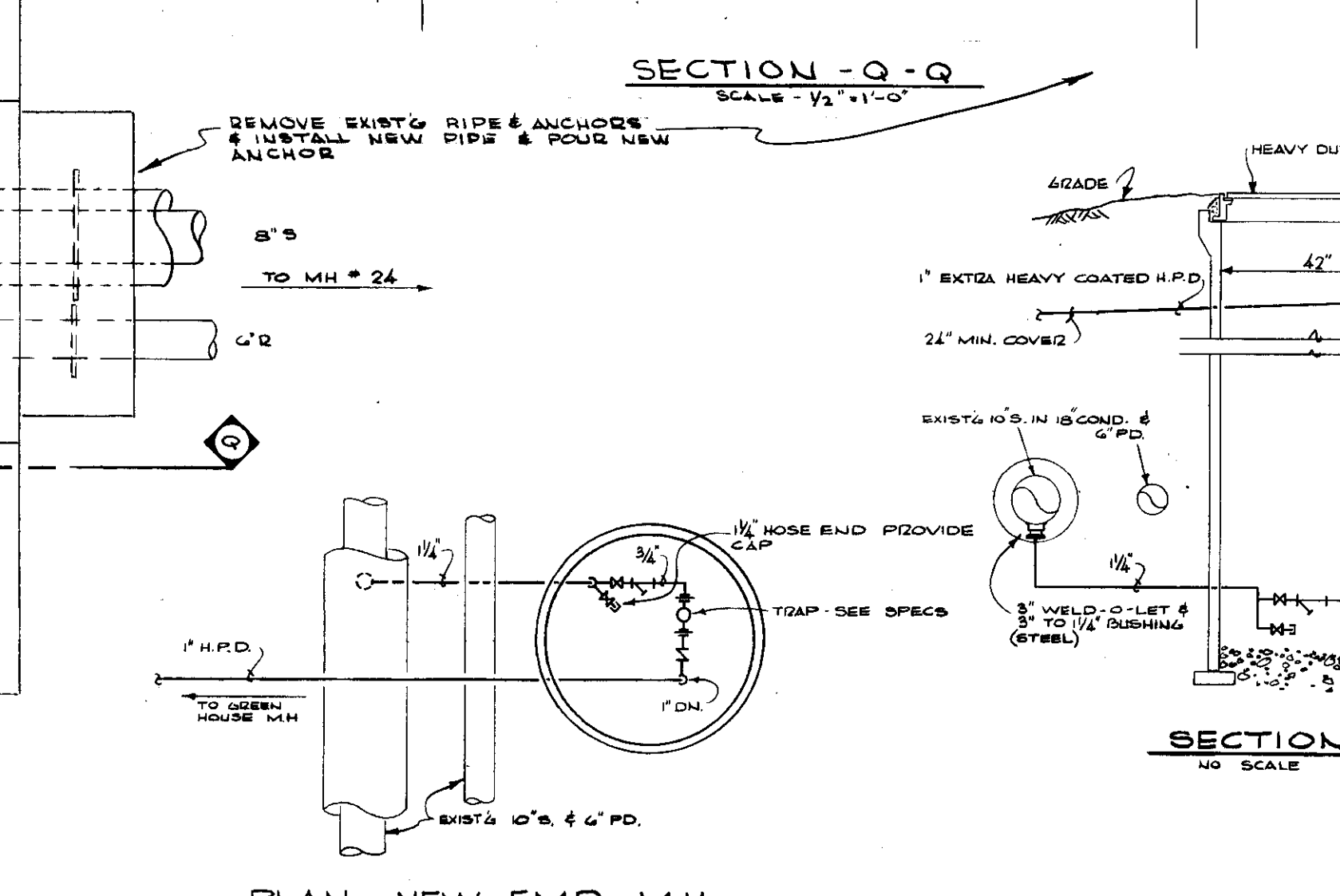
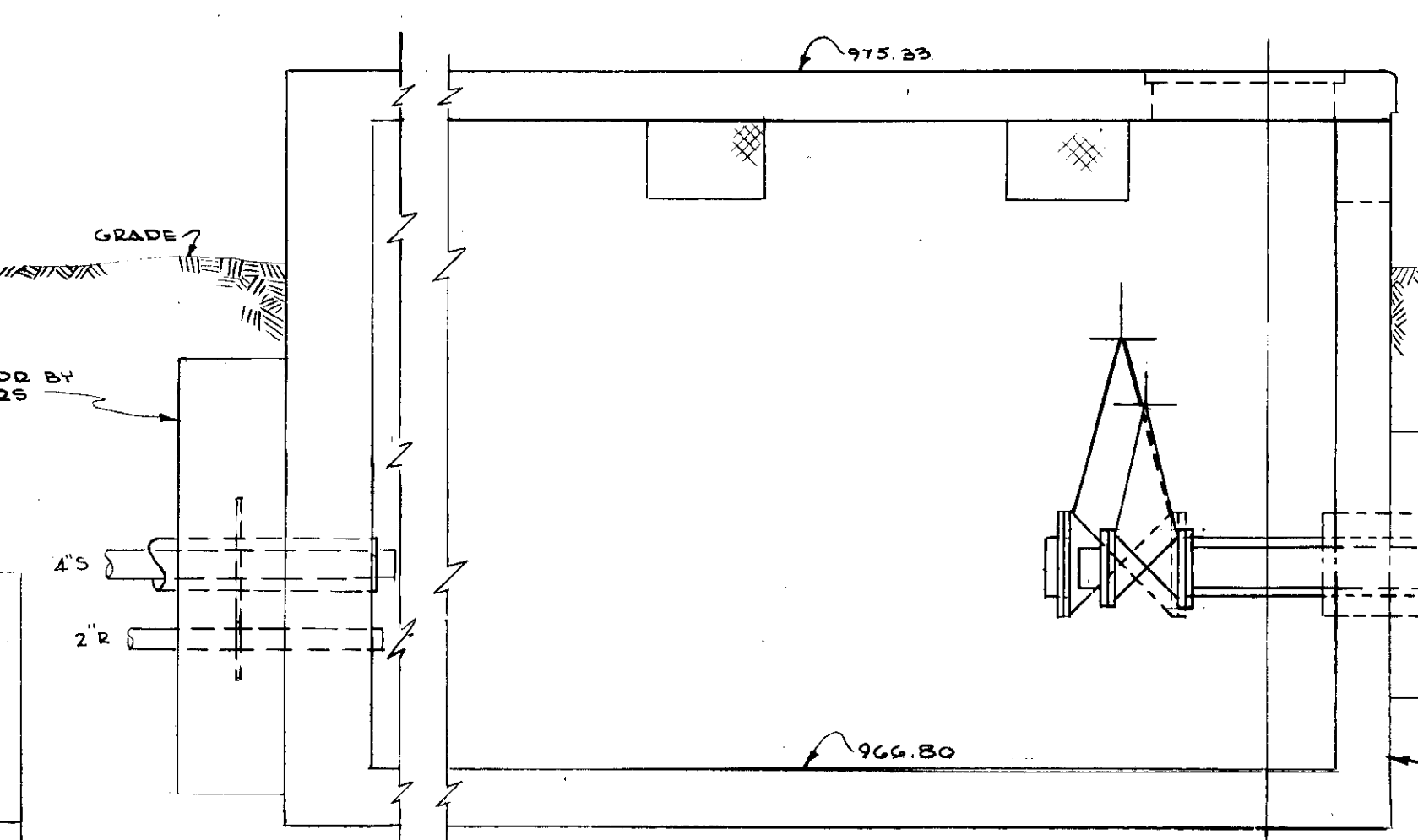
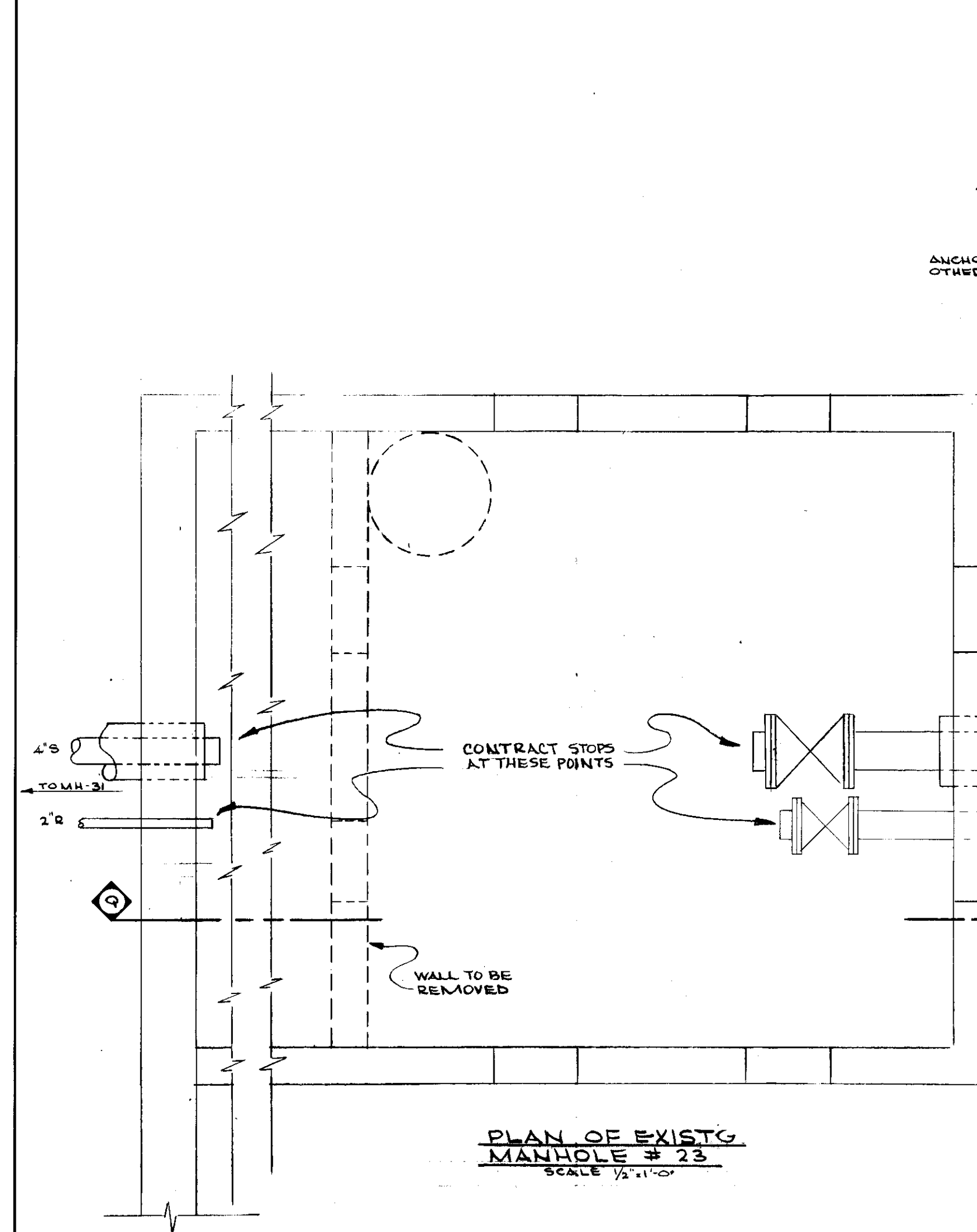




CONDENSATE COOLER DETAIL  
SCALE - 3" = 1'-0"

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NOTE: INLET FOR CONDENSATE RETURN WILL VARY IN LOCATION AS SHOWN ON DRAWING



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PROCTOR-DAVIS-RAY  
CONSULTING ENGINEERS  
By *J. Proctor*

COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF FINANCE  
ENGINEERING STAFF  
FRANKFORT, KENTUCKY  
APPROVED BY: *James H. ...* DATE: *1/11/15*  
AGENCY HEAD  
APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
CHIEF OF STAFF

UNIVERSITY OF KENTUCKY  
STEAM DISTRIBUTION  
INTERCONNECTION  
OF PLANTS  
LEXINGTON, KENTUCKY  
DETAILS

PROCTOR-DAVIS-RAY  
CONSULTING ENGINEERS INC  
LEXINGTON KENTUCKY

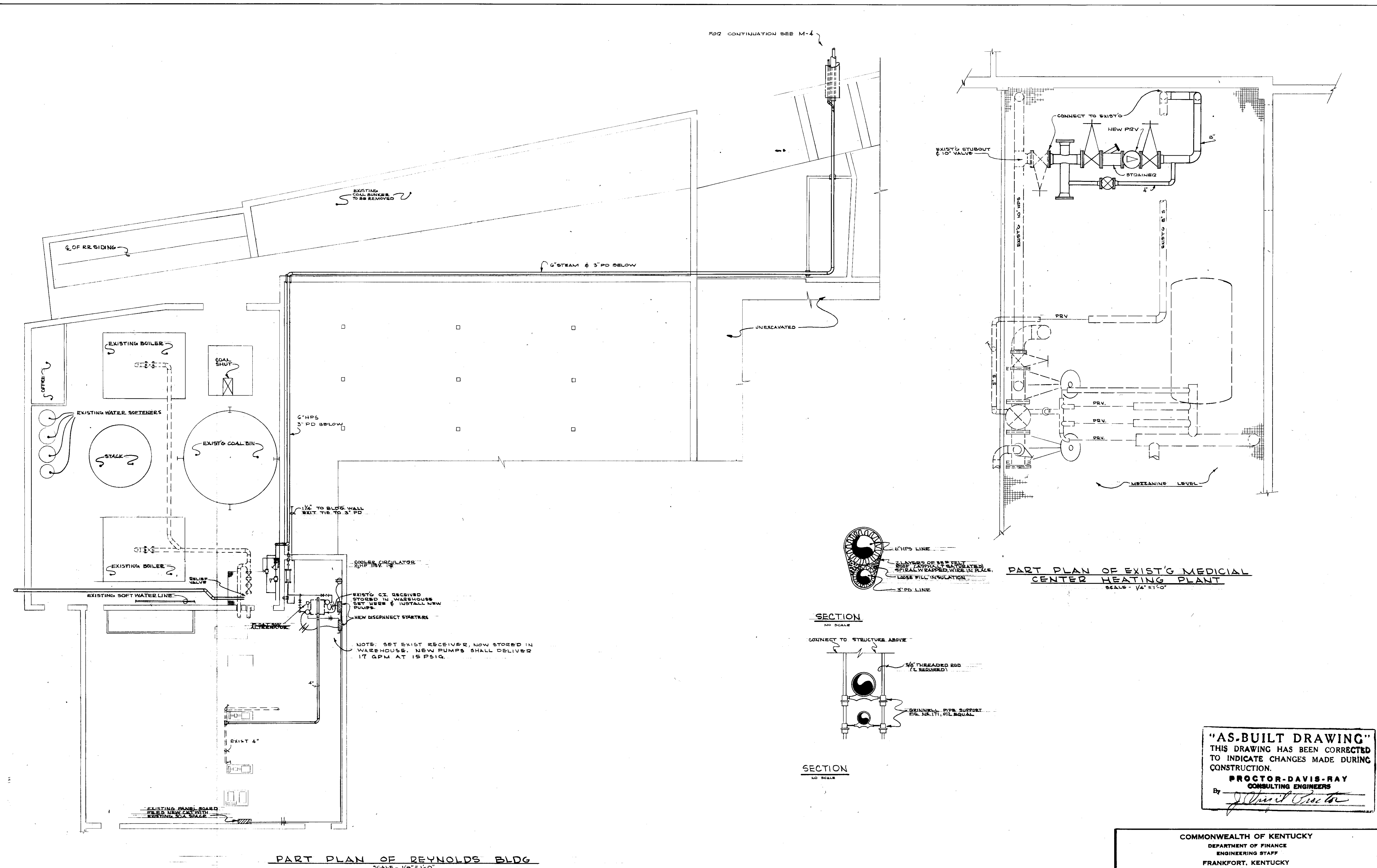
project no. 12.5  
date AUG. 23 1971  
job no. 7033  
revisions

drawn: DAB & JOD  
checked: PCG  
scale: HORIZ. AS SHOWN  
VERT. 2" = 1'-0"

Sheet no. **M-14** of 15  
Cub. # 109 A-2 Document # 006358

U-5415





PART PLAN OF REYNOLDS BLDG  
SCALE - 1/8" = 1'-0"

PART PLAN OF EXIST'G MEDICAL CENTER HEATING PLANT  
SCALE - 1/4" = 1'-0"

**"AS-BUILT DRAWING"**  
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**PROCTOR-DAVIS-RAY**  
CONSULTING ENGINEERS  
By *J. Proctor*

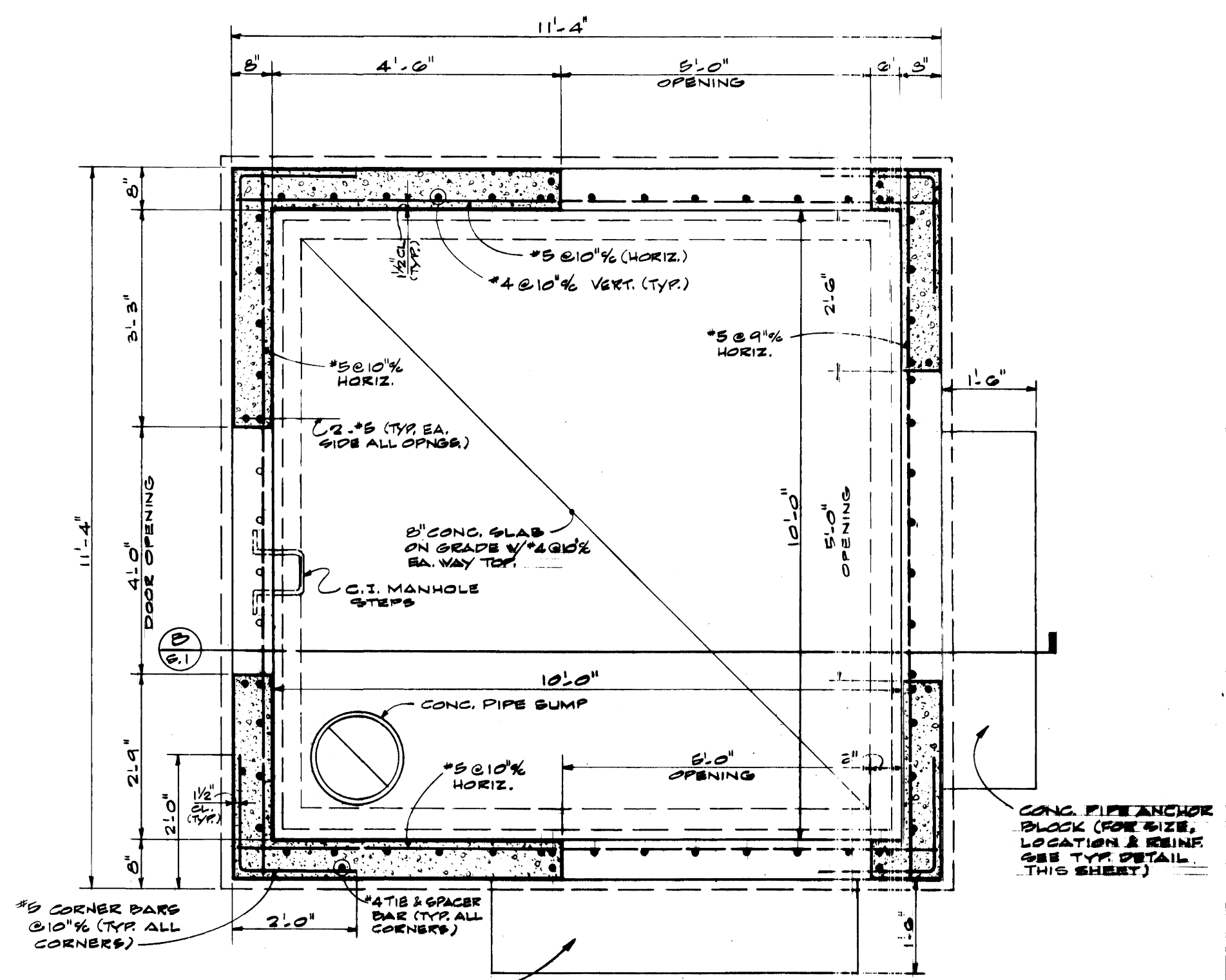
COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF FINANCE  
ENGINEERING STAFF  
FRANKFORT, KENTUCKY

APPROVED BY *J. Marshall* DATE 9/7/71  
AGENCY HEAD

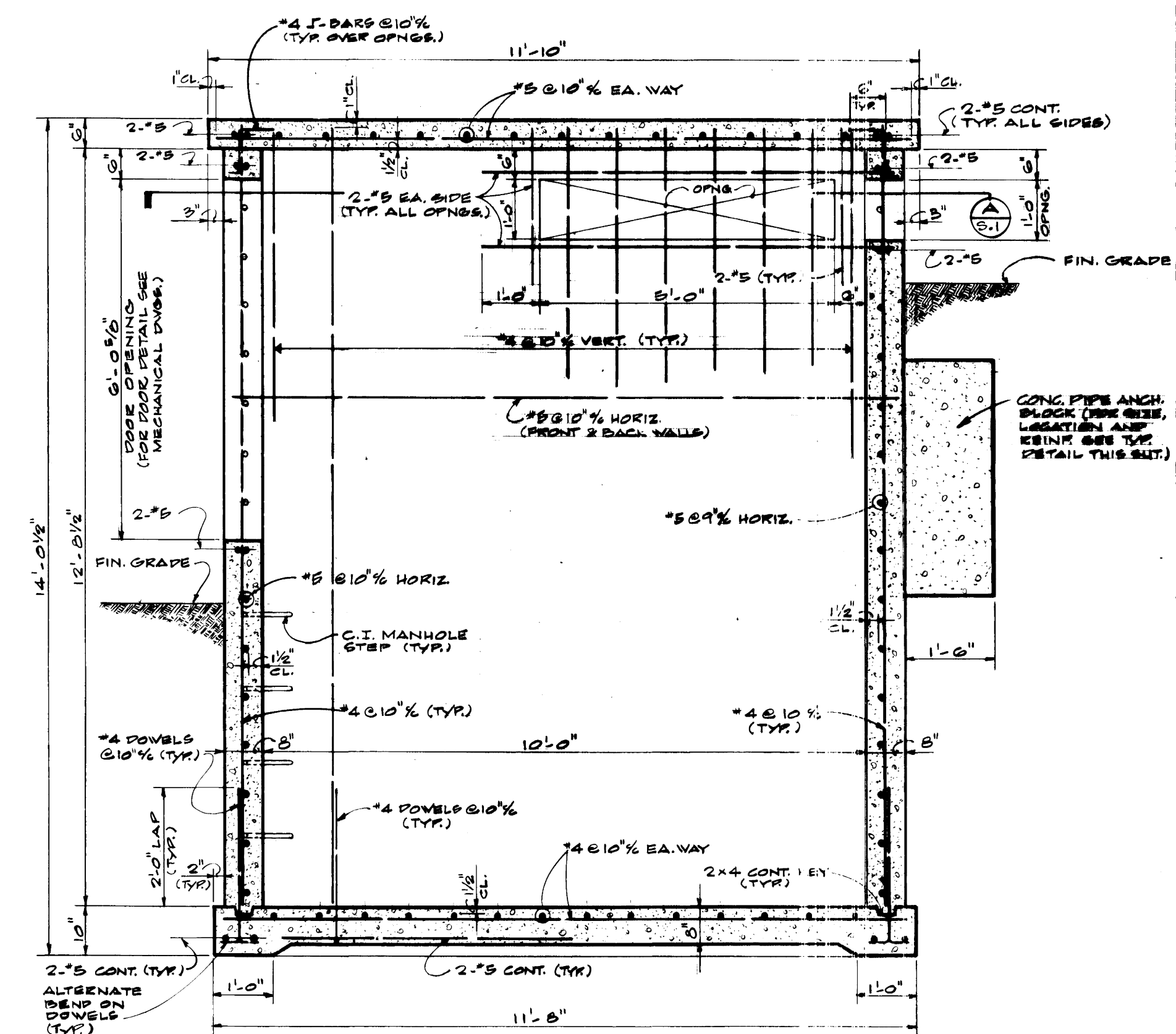
APPROVED BY *[Signature]* DATE 9/8/71  
CHIEF OF STAFF

<b>PROCTOR-DAVIS-RAY</b> CONSULTING ENGINEERS, INC. LEXINGTON, KENTUCKY	
UNIVERSITY of KENTUCKY STEAM DISTRIBUTION INTERCONNECTION STEAM PLANTS LEXINGTON, KENTUCKY DETAILS	project no. 12.5 date: AUG. 23 1971 REVISIONS
drawn: DBB & JOD checked: JVP scale: HORIZ. AS SHOWN VERT.	sheet no <b>M-15</b> document # 008259



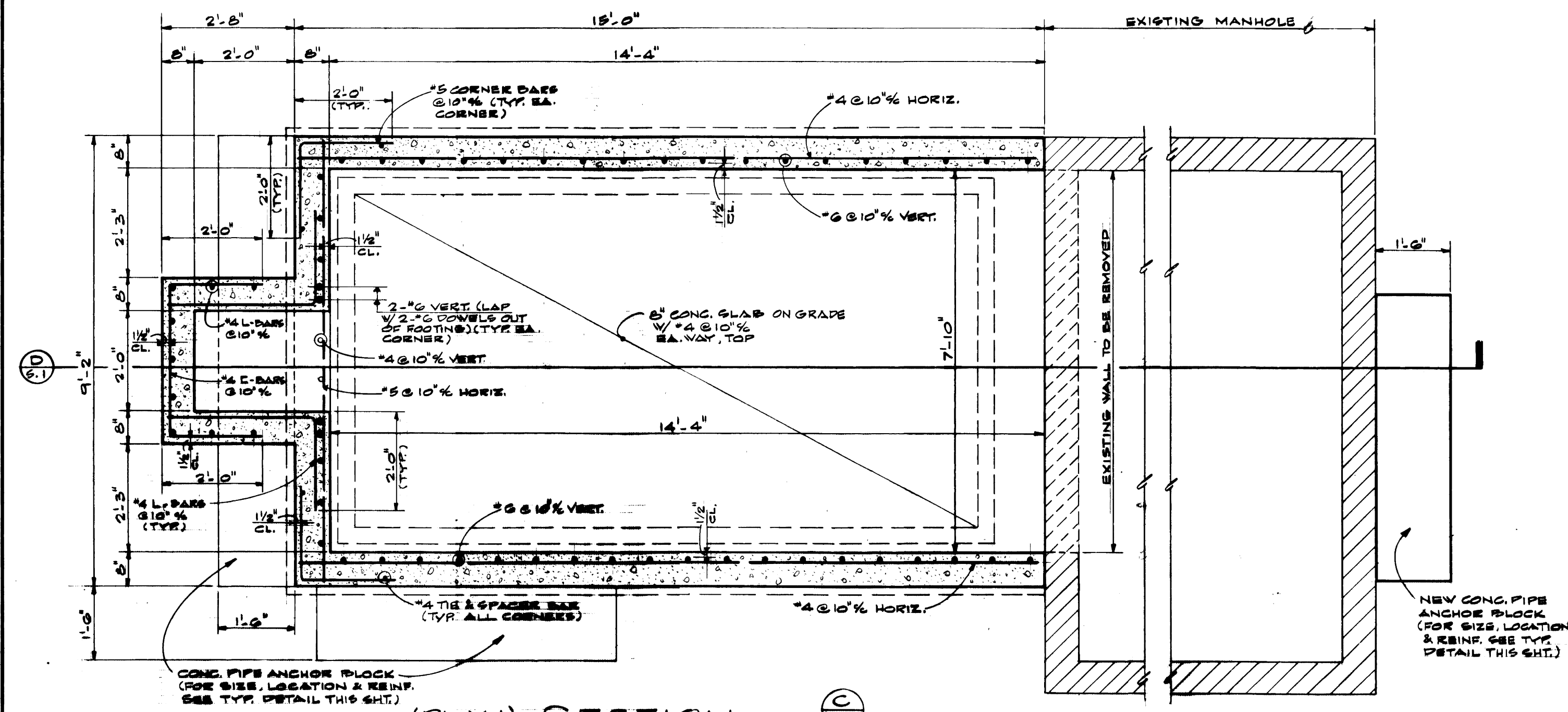


(PLAN) SECTION  
SCALE - 1/2" = 1'-0"

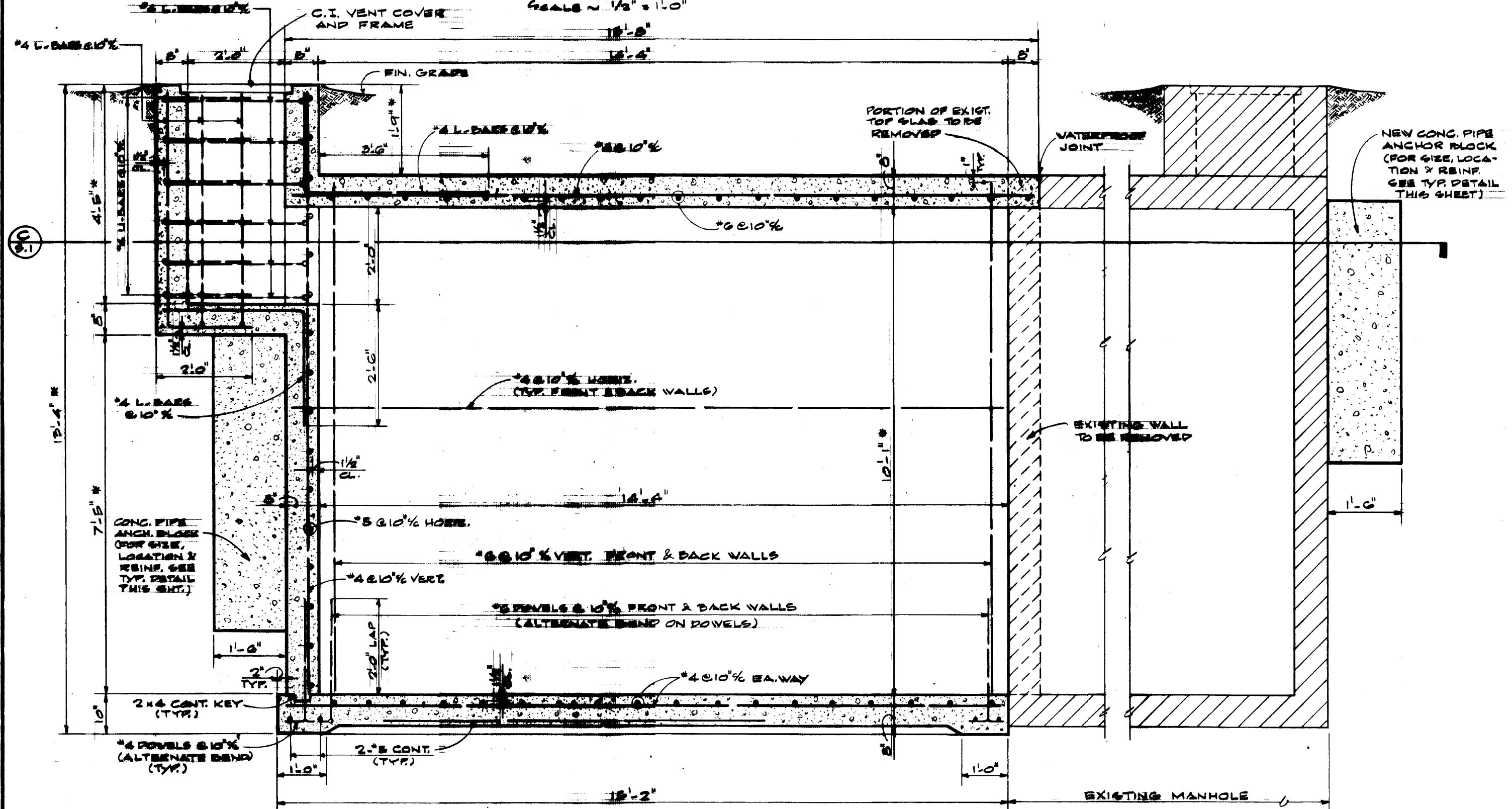


SECTION  
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MANHOLE NO. 12



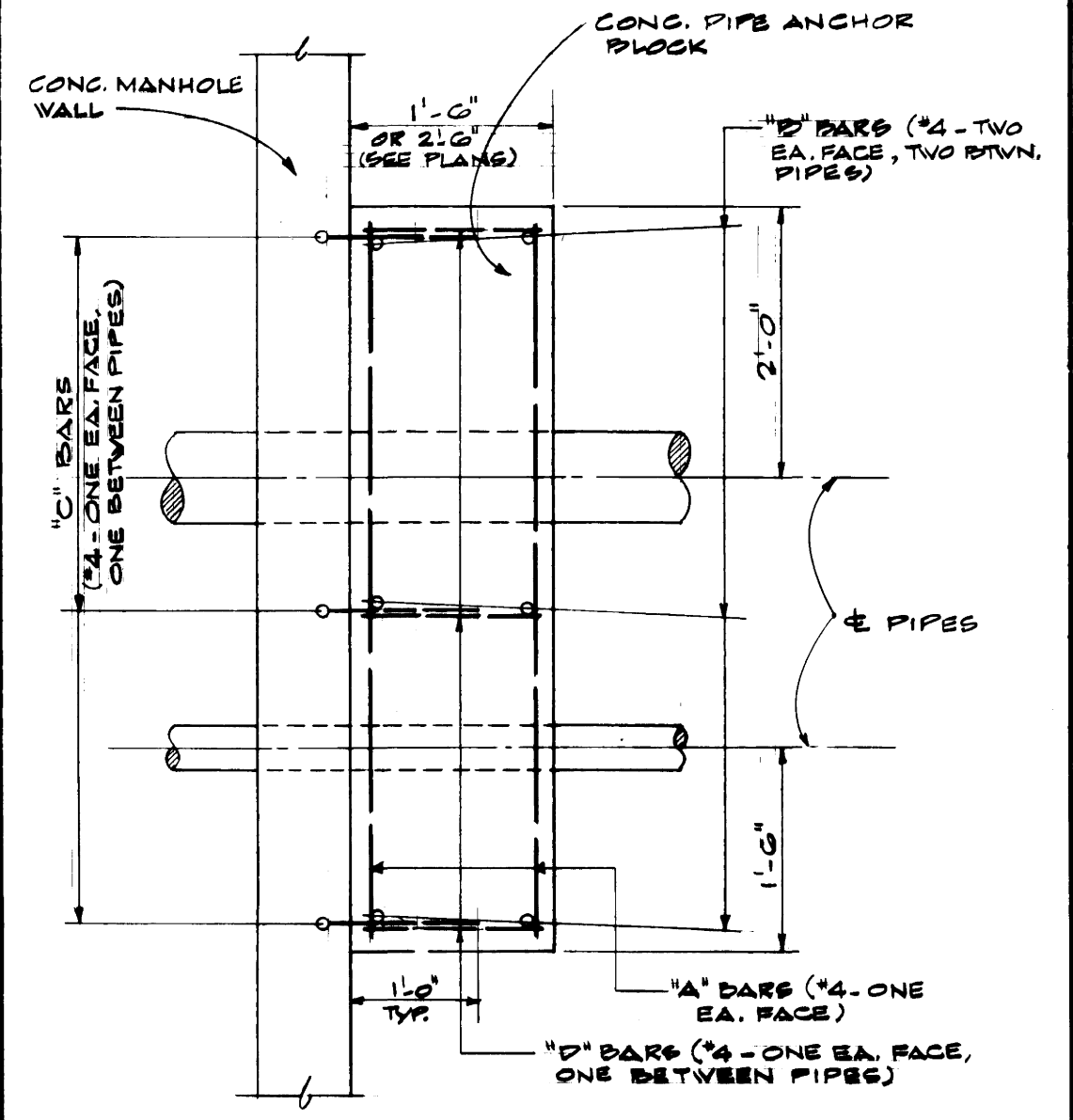
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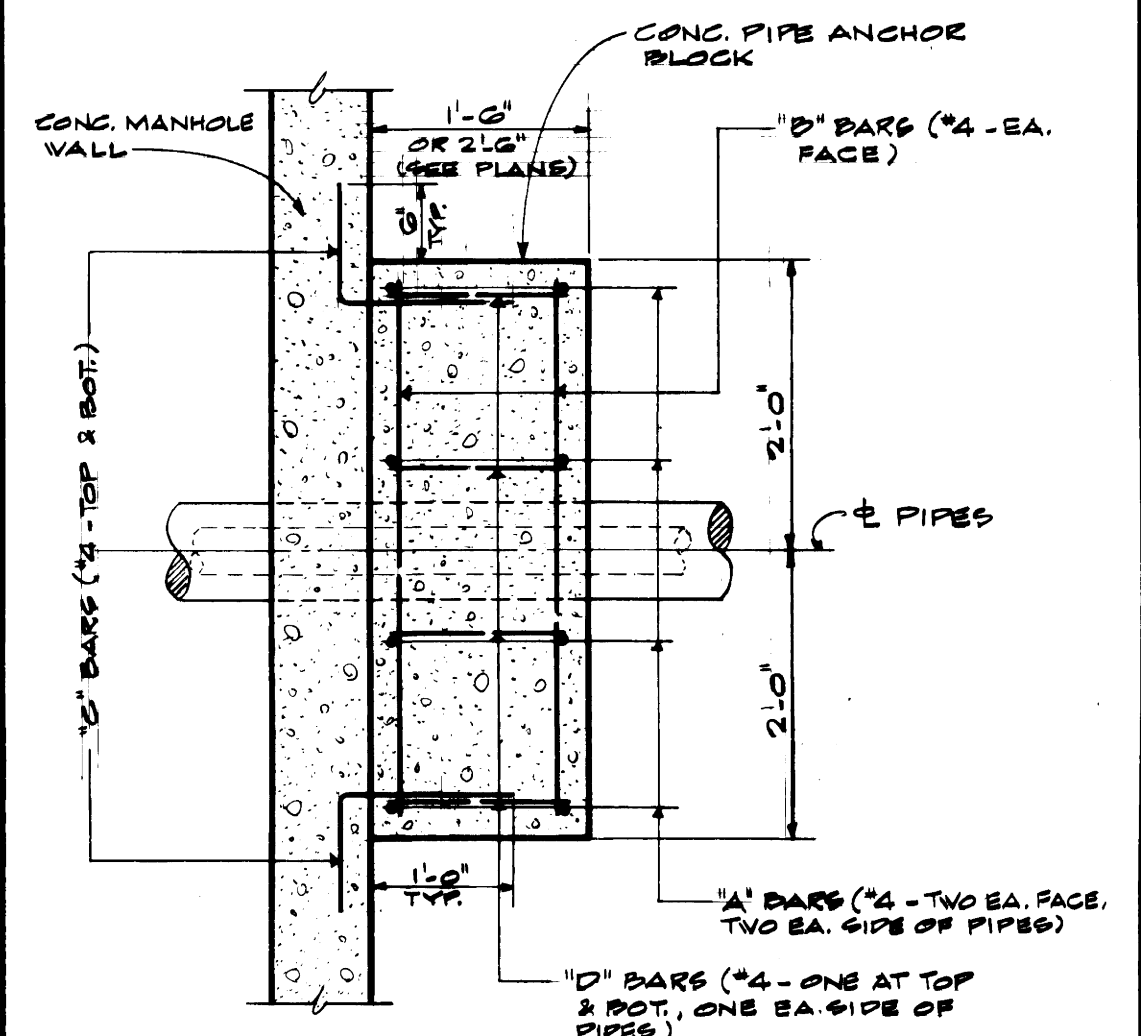
SECTION  
SCALE - 1/2" = 1'-0"

MANHOLE NO. 14

NOTE: DIMENSIONS WITH (Ø) TO BE VERIFIED IN FIELD TO MATCH EXISTING MANHOLE.



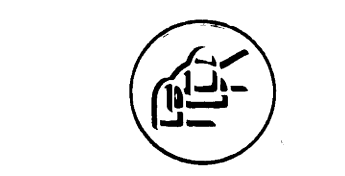
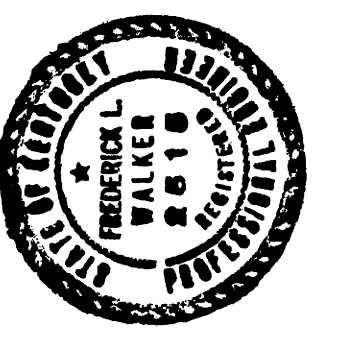
PLAN



SECTION

TYP. CONC. PIPE ANCHOR BLOCK  
DETAILS  
SCALE - 3/4" = 1'-0"  
(FOR LOCATION OF PIPES & SLEEVES SEE MECH. DVGS.)

NOTE: (ALL MANHOLES)  
DO NOT BACKFILL UNTIL TOP SLAB IS IN PLACE.



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CONSULTING ENGINEERS INC  
LEXINGTON KENTUCKY

UNIVERSITY OF KENTUCKY  
STEAM DISTRIBUTION  
STRUCTURAL  
BY  
WHITE, WALKER & MOREYNOLDS  
LEXINGTON, KENTUCKY  
REINFORCING DETAILS - MANHOLES NO. 12 & 14

drawn: G.M.K.  
checked: F.L.W.  
scale: AS NOTED  
horz  
vert

project no: 12 S  
date: AUG. 23 1971  
job no: 70933  
revisions

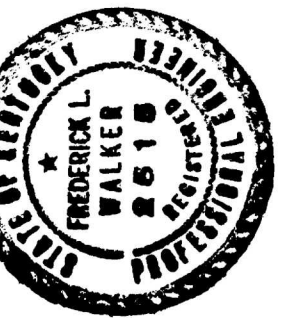
COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF FINANCE  
ENGINEERING STAFF  
FRANKFORT, KENTUCKY

APPROVED BY: *J. Marshall* DATE: 9/7/71  
AGENCY HEAD

APPROVED BY: *W. M. Connell* DATE: 9/8/71  
CHIEF OF STAFF

sheet no: 1-1  
Document # 108304





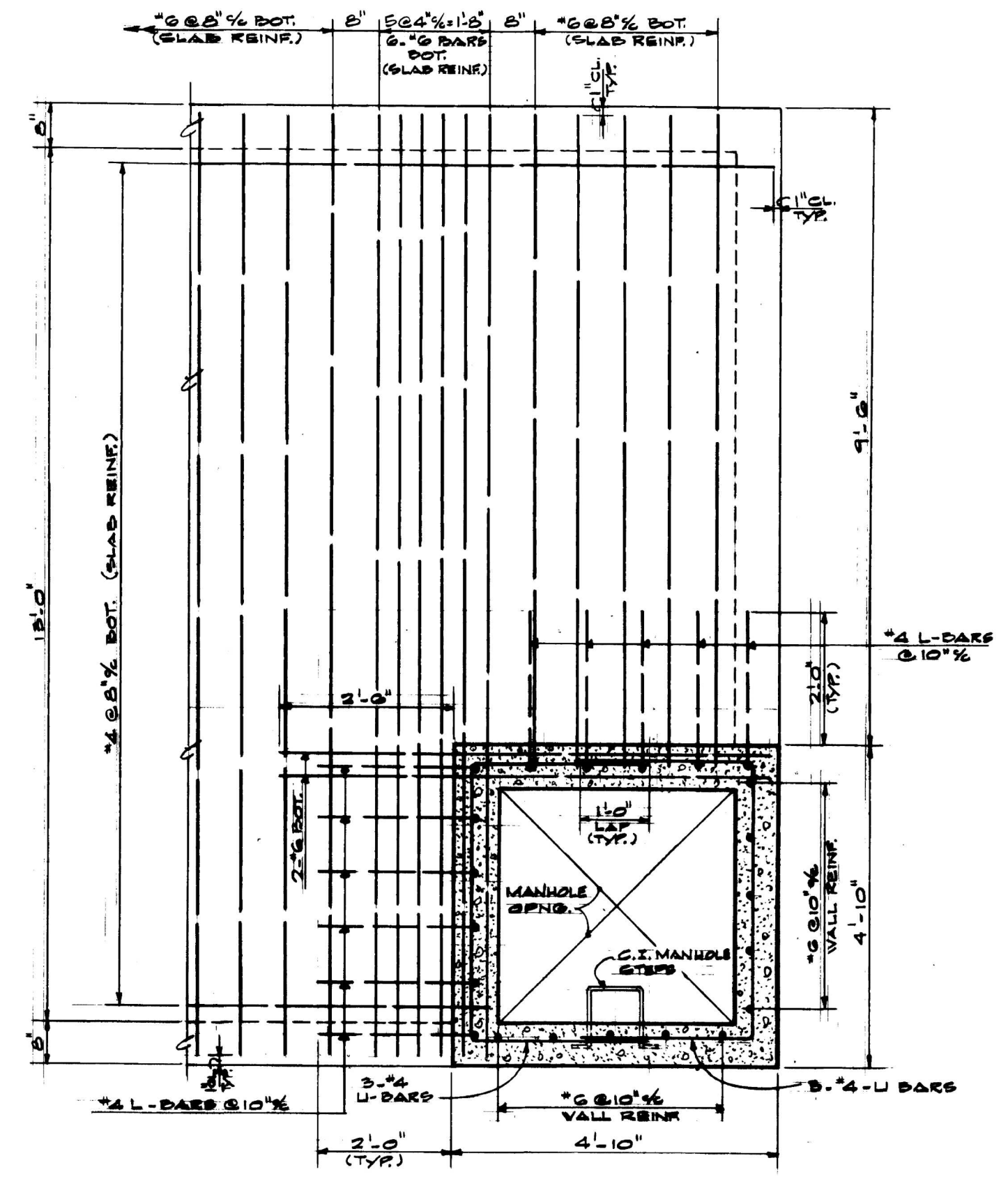
PROCTOR-DAVIS-RAY  
CONSULTING ENGINEERS INC  
LEXINGTON, KENTUCKY

UNIVERSITY OF KENTUCKY  
STEAM DISTRIBUTION  
STRUCTURAL  
BY  
WHITE, WALKER & MREYNOLDS  
LEXINGTON, KENTUCKY  
REINFORCING DETAILS - MANHOLES NS10&18

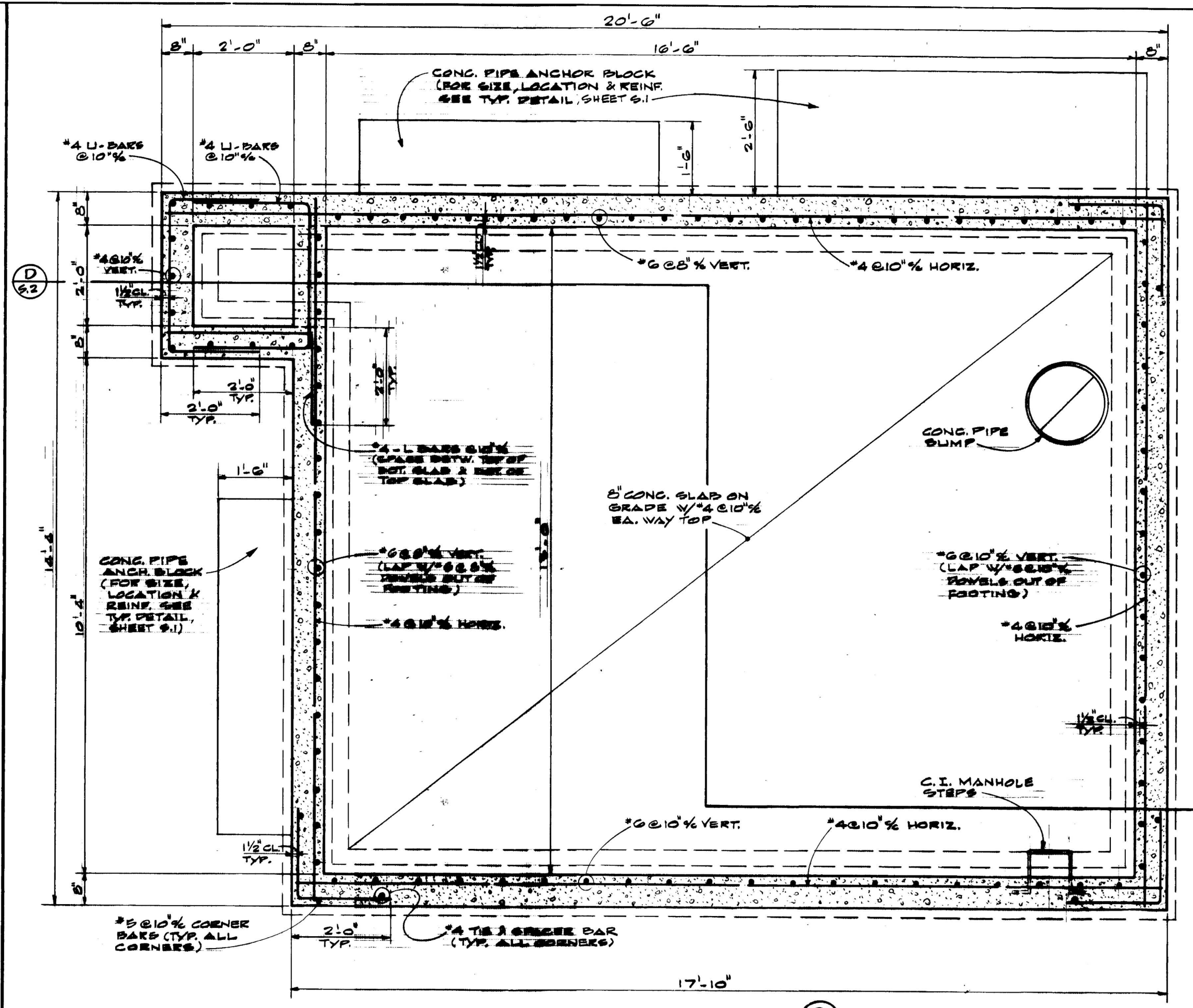
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job no: 7033  
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horiz.  
vert.

sheet no  
S-2  
APPROVED BY: [Signature] DATE: 9/7/71  
AGENCY HEAD  
APPROVED BY: [Signature] DATE: 9/24/71  
CHIEF OF STAFF

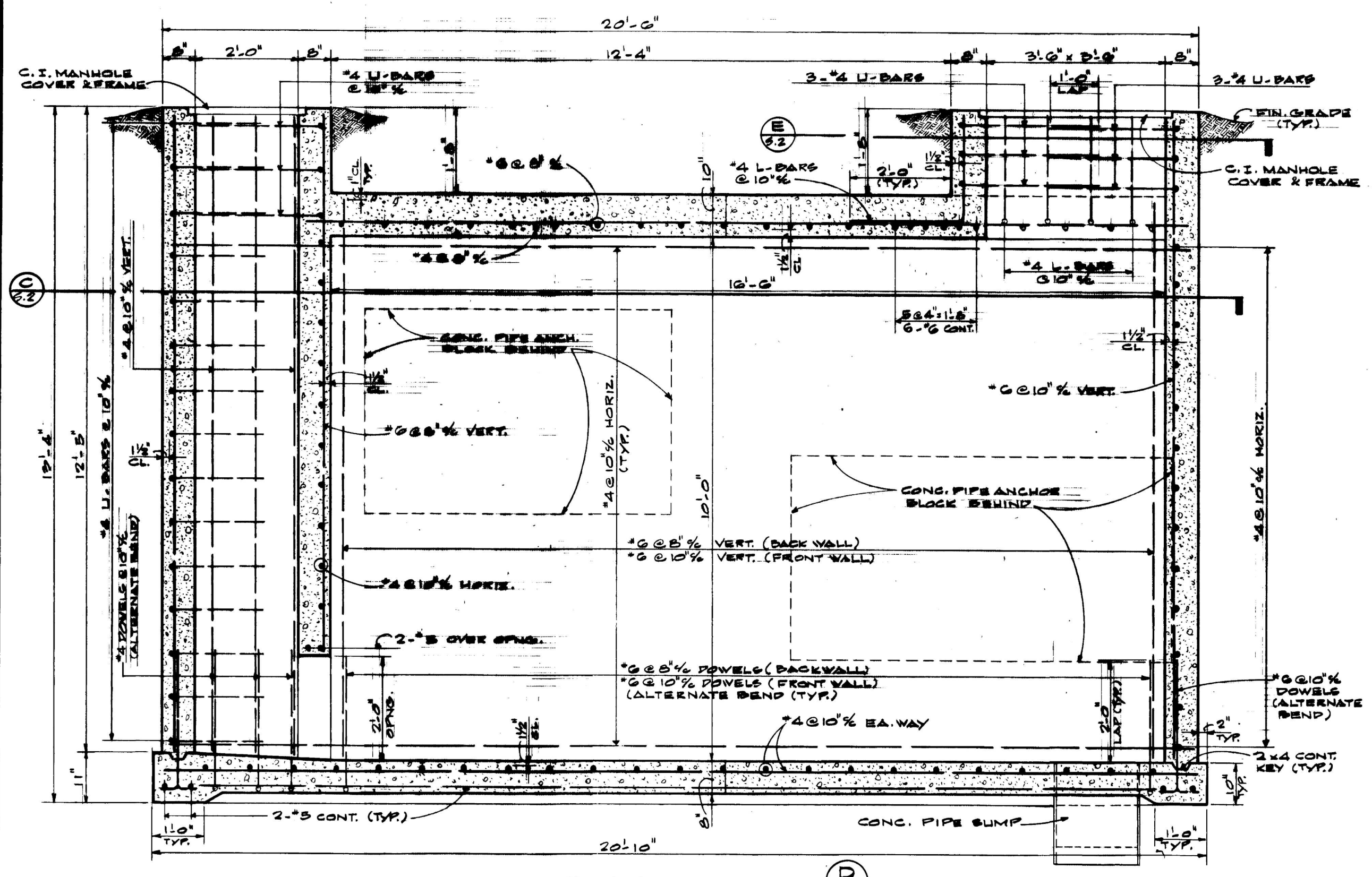
U-5418



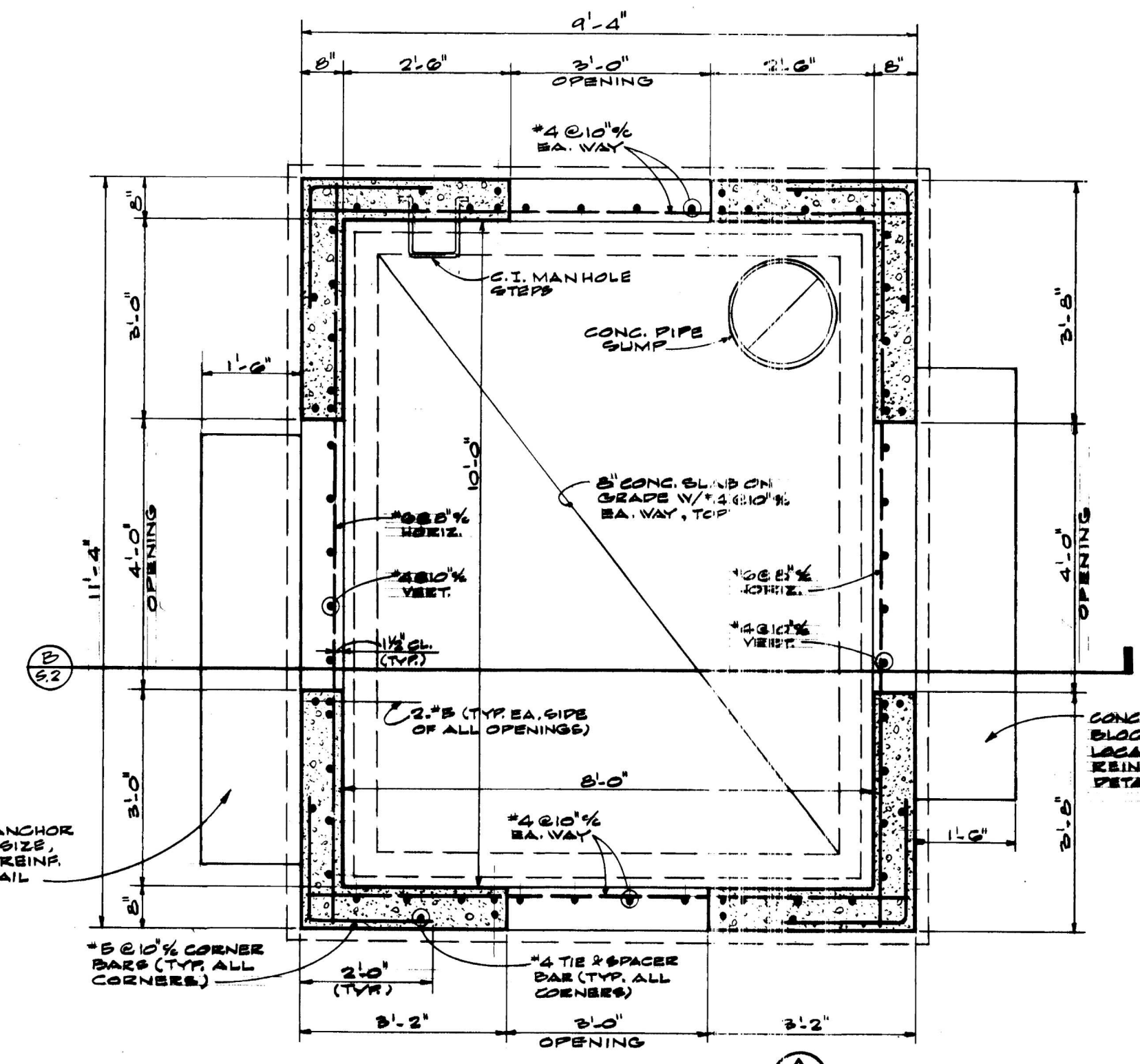
SECTION E  
SCALE ~ 1/2" = 1'-0"  
FOR WALL REINF. NOT SHOWN, SEE SECTIONS C/2 AND D/2.



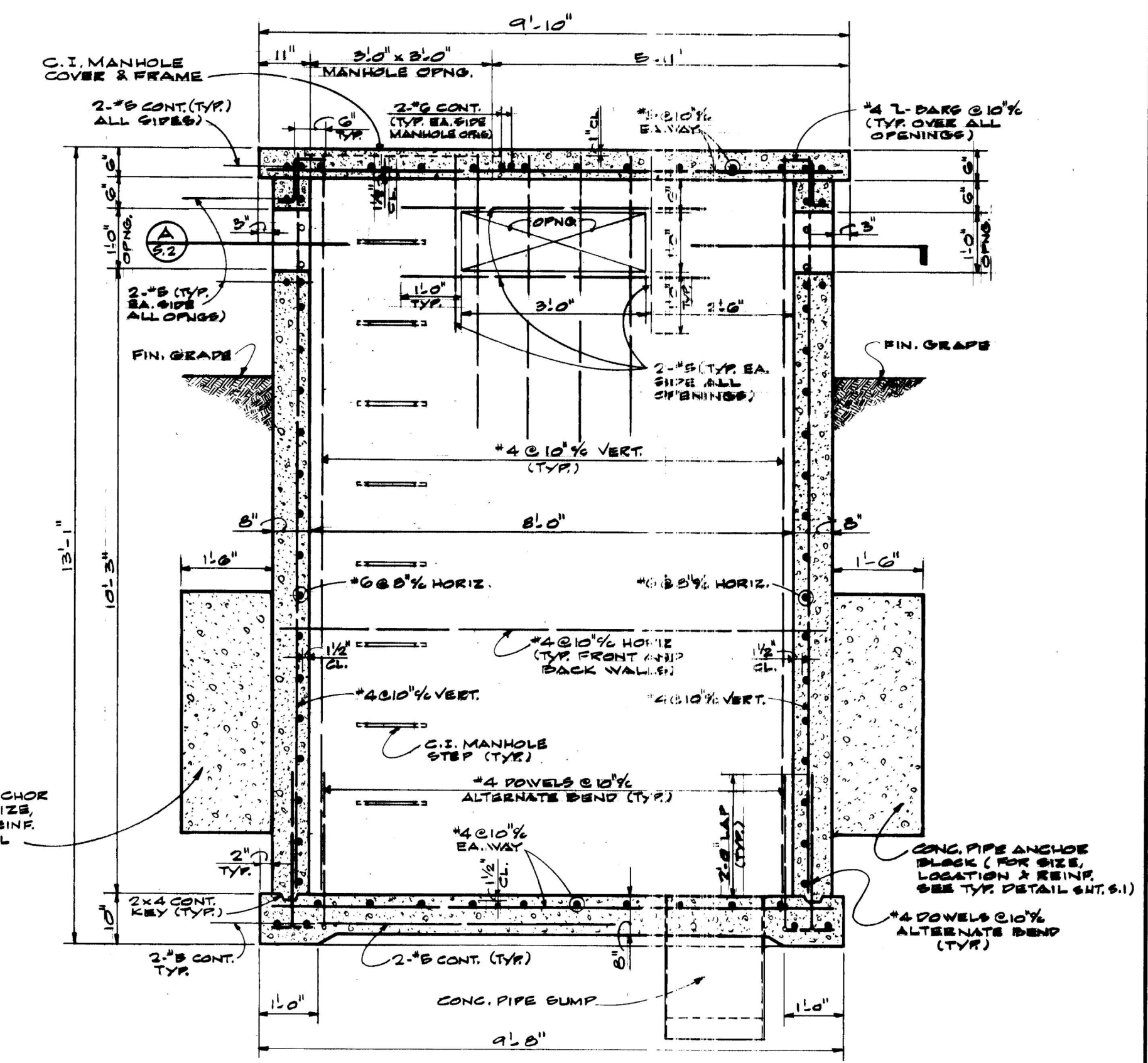
(PLAN) SECTION C/2  
SCALE ~ 1/2" = 1'-0"



SECTION D/2  
SCALE ~ 1/2" = 1'-0"  
MANHOLE NO 18

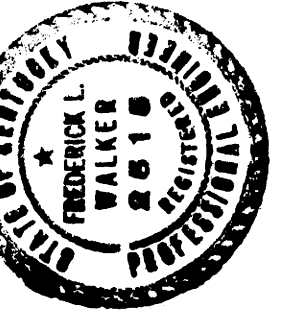


(PLAN) SECTION A  
SCALE ~ 1/2" = 1'-0"



SECTION B/2  
SCALE ~ 1/2" = 1'-0"  
MANHOLE NO 10





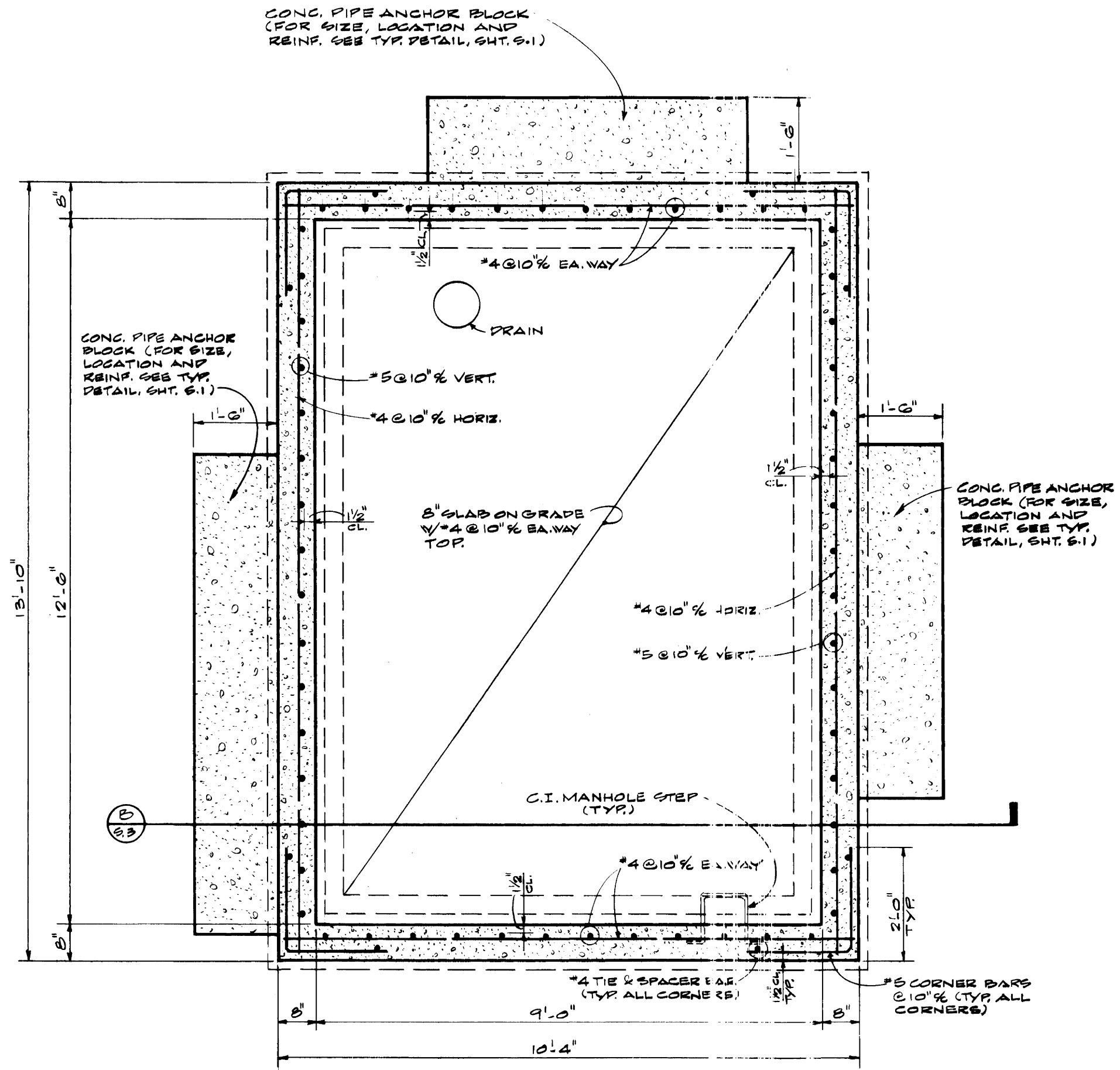
PROCTOR - DAVIS - RAY  
CONSULTING ENGINEERS INC  
LEXINGTON KENTUCKY

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STEAM DISTRIBUTION  
STRUCTURAL  
BY WHITE, WALKER & McREYNOLDS  
LEXINGTON KENTUCKY  
REINFORCING DETAILS - MANHOLE NO 4

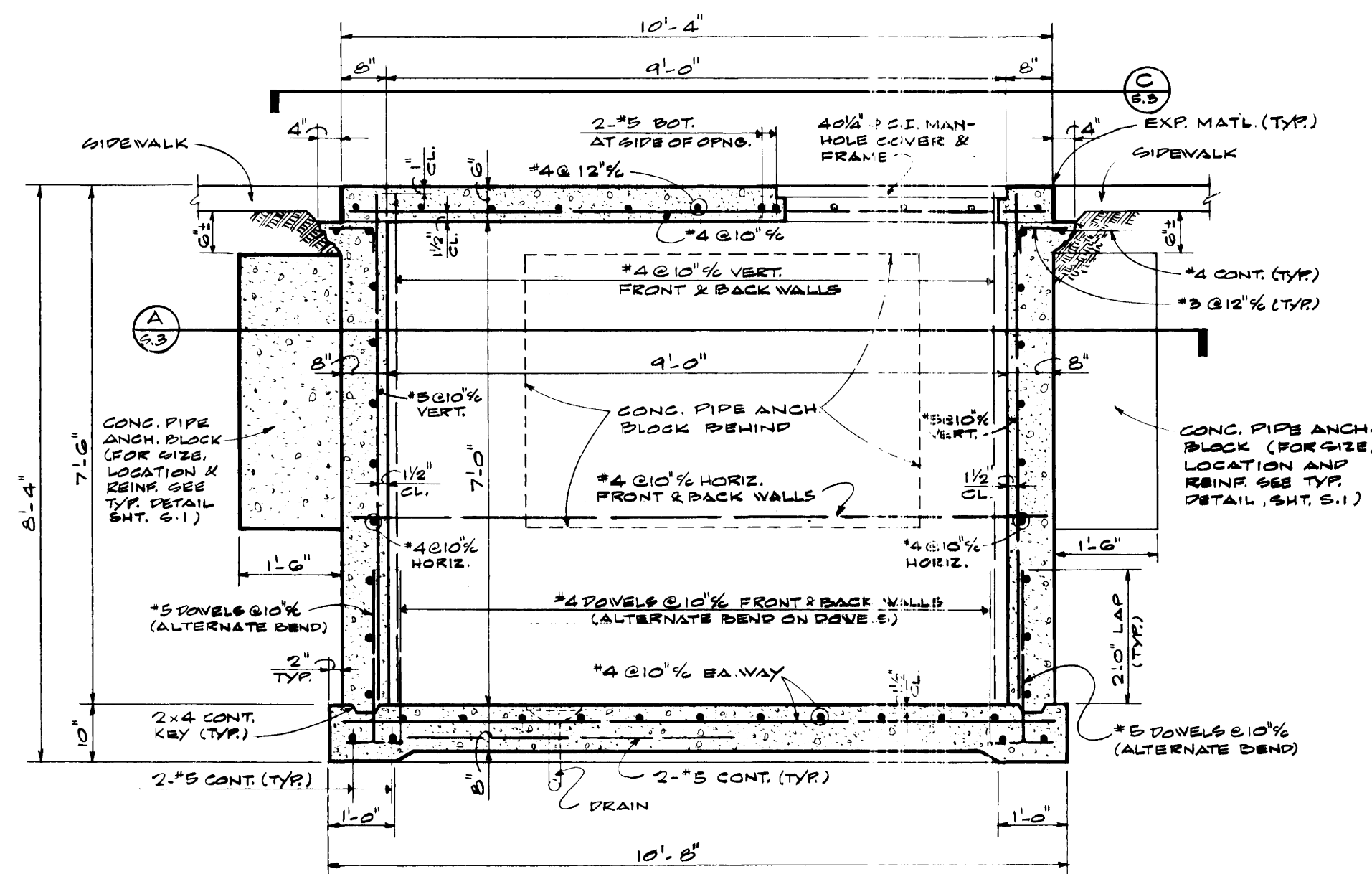
project no 12 S	drawn: G.M.K.	checked: F.L.W.	scale as noted
date: AUG. 25, 1971	job no. 7055	horz:	vert:
revisions			

sheet no  
**S-3**  
APPROVED BY: *J. Marshall* AGENCY HEAD DATE: 9/7/71  
APPROVED BY: *W. McConnell* CHIEF OF STAFF DATE: \_\_\_\_\_

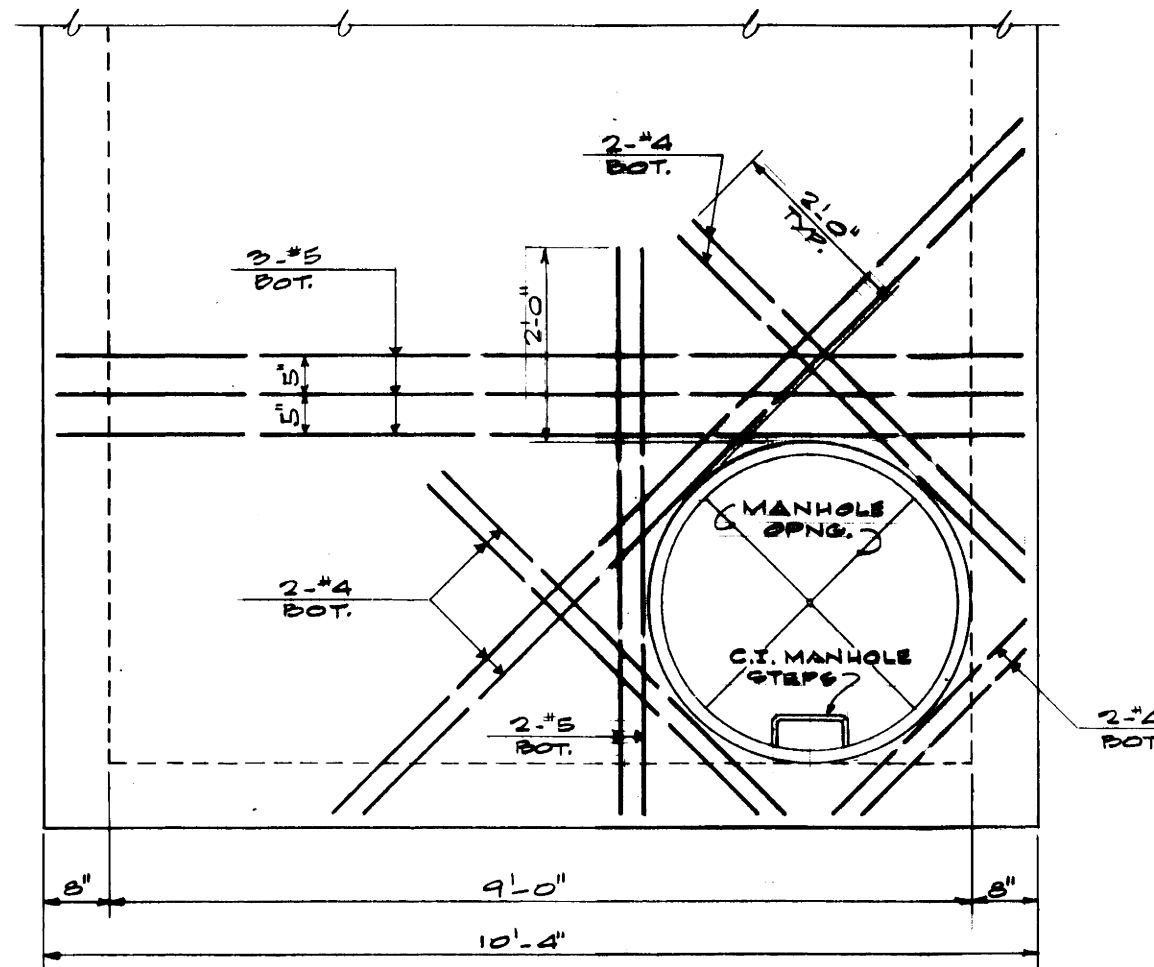
4-5419



(PLAN) SECTION  
SCALE - 1/2" = 1'-0"



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

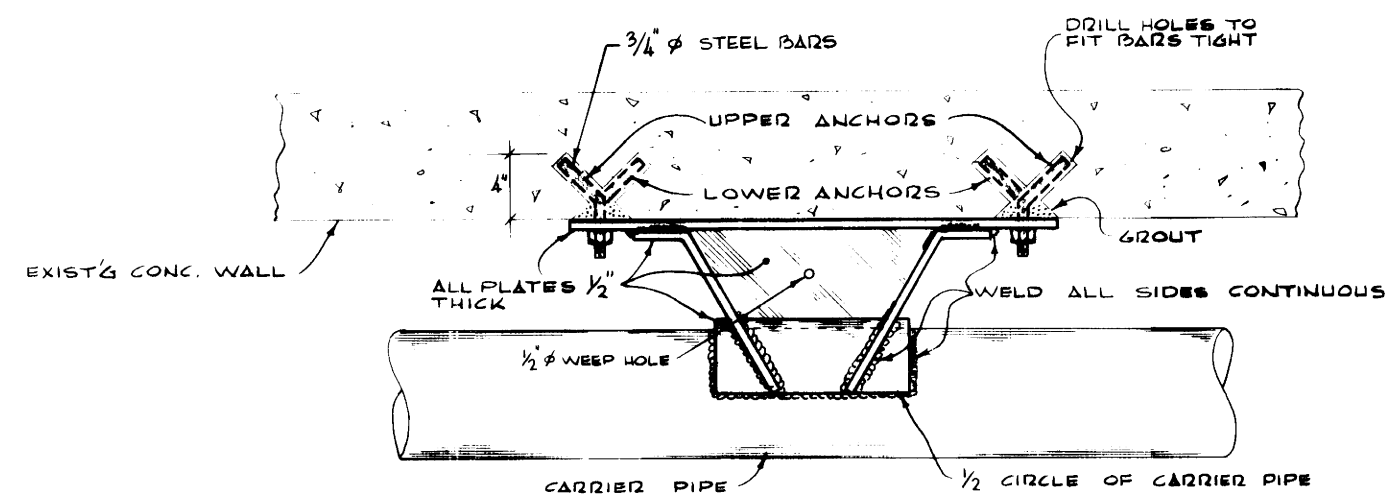


PLAN  
SCALE - 1/2" = 1'-0"  
SHOWING REINF. AROUND MANHOLE OPNG.  
(FOR TOP SLAB REINF. & OTHER DETAILS SEE SECTION B/C.B.)

MANHOLE NO 4

COMMONWEALTH OF KENTUCKY  
DEPARTMENT OF FINANCE  
ENGINEERING STAFF  
FRANKFORT, KENTUCKY

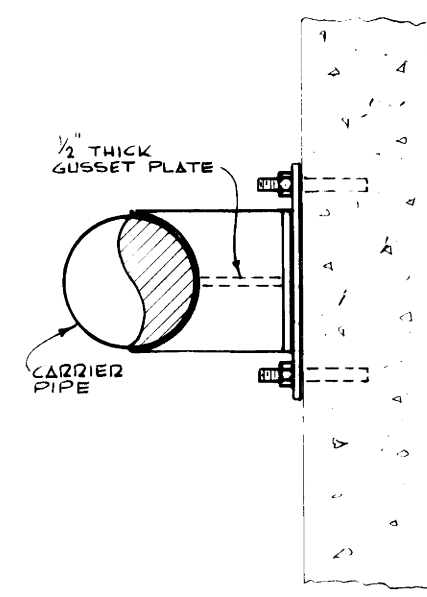




ANCHOR DETAIL FOR USE ON EXISTING CONCRETE WALLS

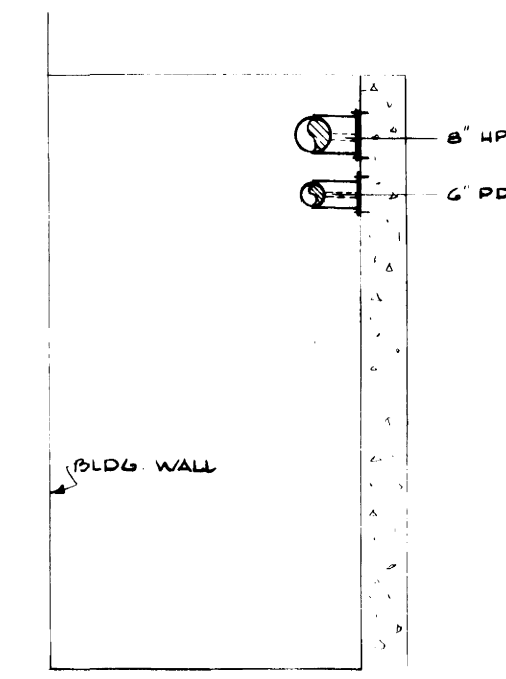
SCALE - 1" = 1'-0"

NOTE: SAME FOR GUIDE EXCEPT COMPLETE SLEEVE OF CARRIER PIPE & OMIT GUSSET PLATE



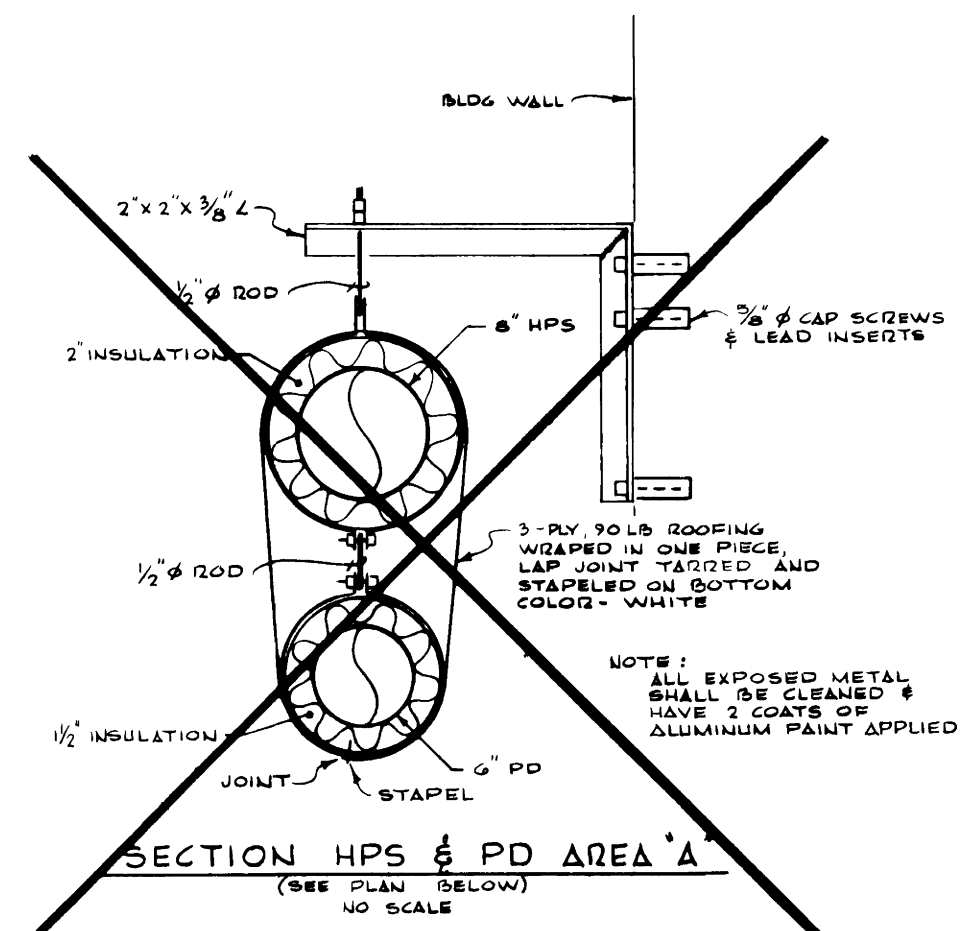
SECTION

SCALE: 1" = 1'-0"



SECTION - B-B

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

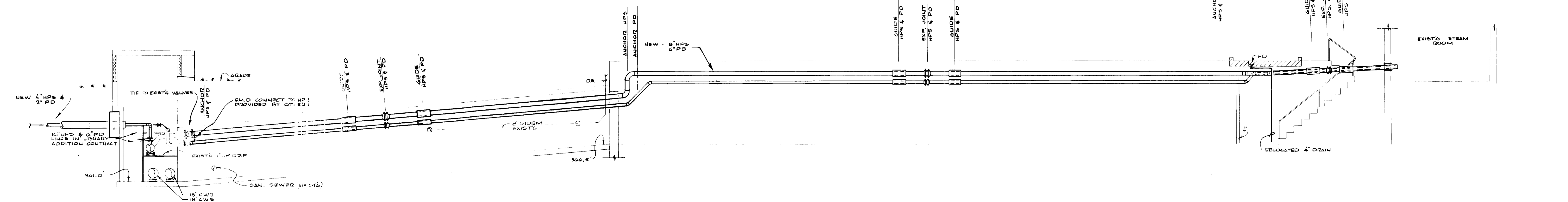


SECTION HPS & PD AREA 'A'

(SEE PLAN BELOW)

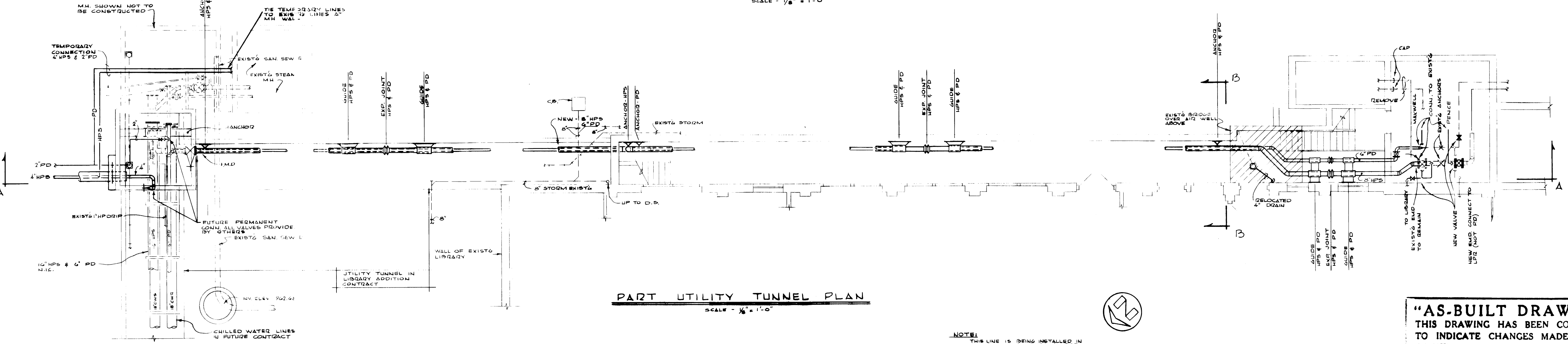
NO SCALE

**"DELETED"**



TUNNEL SECTION A-A

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



PART UTILITY TUNNEL PLAN

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

**NOTE:**  
 THIS LINE IS BEING INSTALLED IN PLACE OF THE 8\"/>

THIS CONTRACTOR SHALL INCLUDE IN HIS PRICE THE COST OF BUILDING AND DELIVERING TO THE MARGATEF I KING LIBRARY SITE, ONE (1) CONDENSATE COOLER WITH 6\"/>

AS SHOWN ON SHEET M-14 OF THE CONTRACT DRAWINGS. INSTALLATION WILL BE BY OTHERS.

**"AS-BUILT DRAWING"**  
 THIS DRAWING HAS BEEN CORRECTED TO INDICATE CHANGES MADE DURING CONSTRUCTION.

PROCTOR-DAVIS-RAY  
 CONSULTING ENGINEERS

By *Proctor*

PROCTOR-DAVIS-RAY  
 CONSULTING ENGINEERS, INC.  
 LEXINGTON, KENTUCKY

UNIVERSITY of KENTUCKY  
 STEAM DISTRIBUTION  
 INTERCONNECTION  
 of PLANTS  
 LEXINGTON, KENTUCKY

drawn: PC4 & DDB  
 checked: JVP  
 scale as shown  
 horz: vert:

project no:  
 date: 8-3-72  
 job no: 7033  
 revisions: 1-88263

sheet no: X-8