

M. M. M.

WORK TO CONFORM TO CURRENT A

ELEVATIONS SHOWN ARE AT BOTTOM OF FOOTING ELEVATIONS
NOT SHOWN ARE TO CONFORM TO FOOTING SCHEDULE
AND STRUCTURAL STEEL DRAWINGS
GRADE BEAMS AT 24' AND 30' BAYS, ALONG LINES
A & Z, ARE TO BE SUPPORTED THEIR ENTIRE LENGTH
UPON LEAN CONCRETE FILL
GRADE BEAMS SHOWN ON THIS KEY PLAN, BUT LACKING
A MARK, ARE CAST IN PLACE WITH ADJACENT PIERS

NOTES REV. _____

3. ELEVATIONS SHOWN ON MH'S ARE HIGH POINTS INSIDE OF MH'S
4. BACKFILL AROUND THIS MH WITH LEAN CONCRETE TO BOTTOM OF COL FOOTINGS
5. SLOPE SW CORNER, TOP OF FOOTINGS.
Gr 20 to EL 666'3"; Ja 20 to EL 665'9",
H20. AND K20 to EL 666'6".

2. Cons. N/10650.0

969.8

5976.60

FTG

1020.8

969.8

969.8

5

4

48

49

1456'-0"

6

7

3

2

356'-0"

356'-0"

(35)

Diagram of a rectangular frame structure. The horizontal dimension is labeled 484.10 at the bottom, with a central label M_0 . The vertical dimension is labeled $356.0'$ on the right side. The structure is defined by four corner nodes labeled 1, 2, 3, and 4. A handwritten note $E=3000$ is present on the left side.

KEY PLAN

MF 16MM
35MM
105MM

SEQUENCE NO. 2488

S FOR ELEVATOR
DATONS

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REVIEWED FOR CLASSIFICATION
CLASSIFICATION: UNCLASSIFIED
Date: APR 30 1974
By: S. A. Thomas

[illegible][illegible]

4/21/78	ADDED PYRAMID STORAGE FACILITY PROV. 45C80 AS BUILT	R ₂	3
6/26/78	AS BUILT AS RECEIVED FROM A.E. WAS REVISED 3-DAT 2-3-78	J-1	1
NO	DATE	ISSUED FOR	BY AP

UNITED STATES
ATOMIC ENERGY COMMISSION

GIFFELS & VALLET, INC.
ENGINEERS
DETROIT 26 MICHIGAN

DRAWING TITLE

FOUNDATION PLAN
WEST PART

DESIGN APPROVED - DATE	DRAWING APPROVED - DATE	DRAWING APPROVED
J. S. Taylor 9-11-58 AEC ENGINEER	A. A. WALKER 9-11-58 GARIBOLDI CARBON CHEMICAL CO	L. H. JACKSON 9-11-58 AEC ENGINEER
IN CHARGE D. KULLGREN E. VESTROM	DATE CHECKED J.L.G.	DATE
IN CHARGE H. L. FOSS 1. LA GRAND	DATE CHIEF E.J. MINTUS	DATE

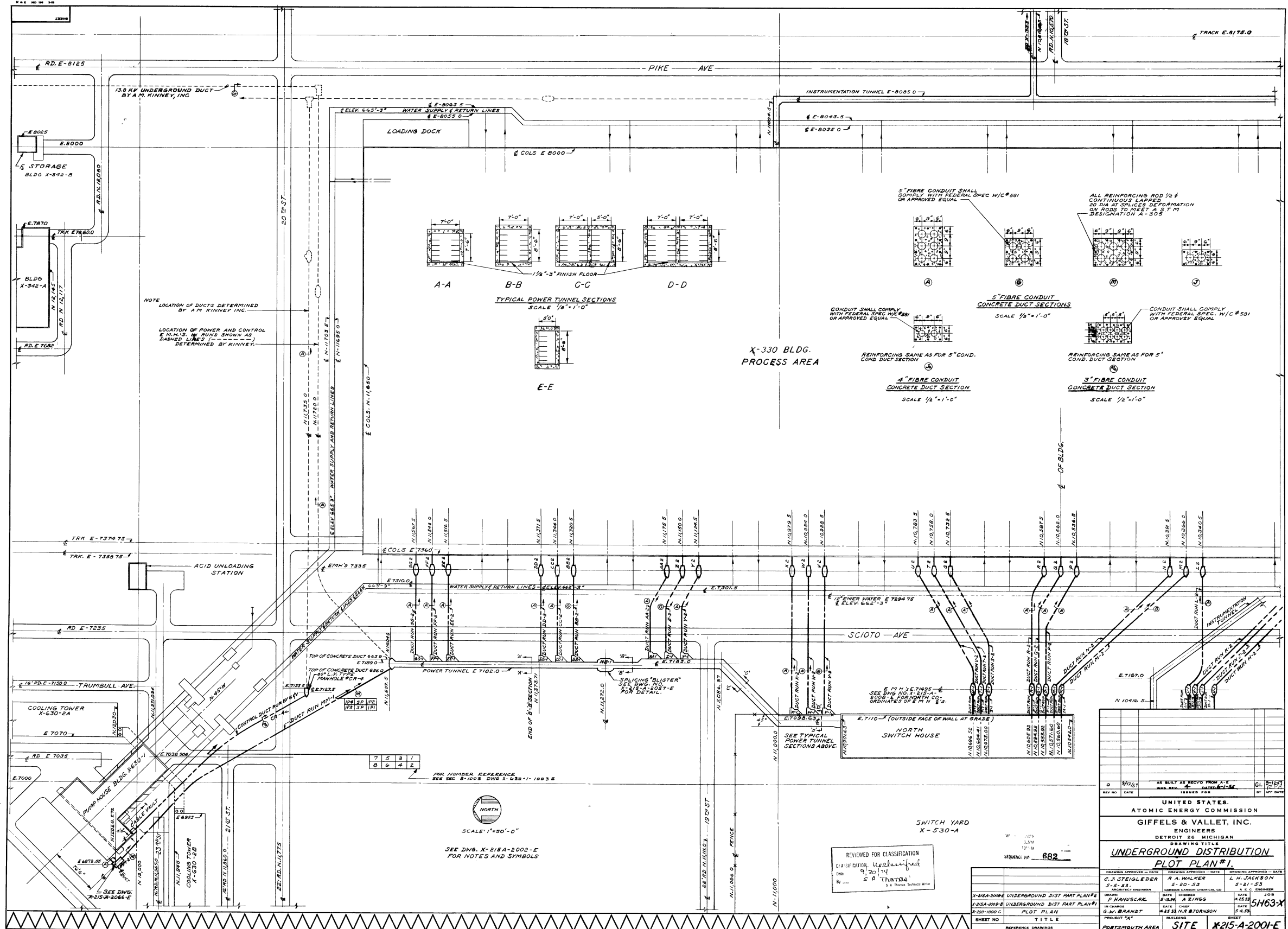
PROJECT "X"	BUILDING	SHEET
WATSMOUTH AREA	X 333	1-S
1394		

PLAN OF FOOTINGS
SCALE 1/2" = 1'-0"

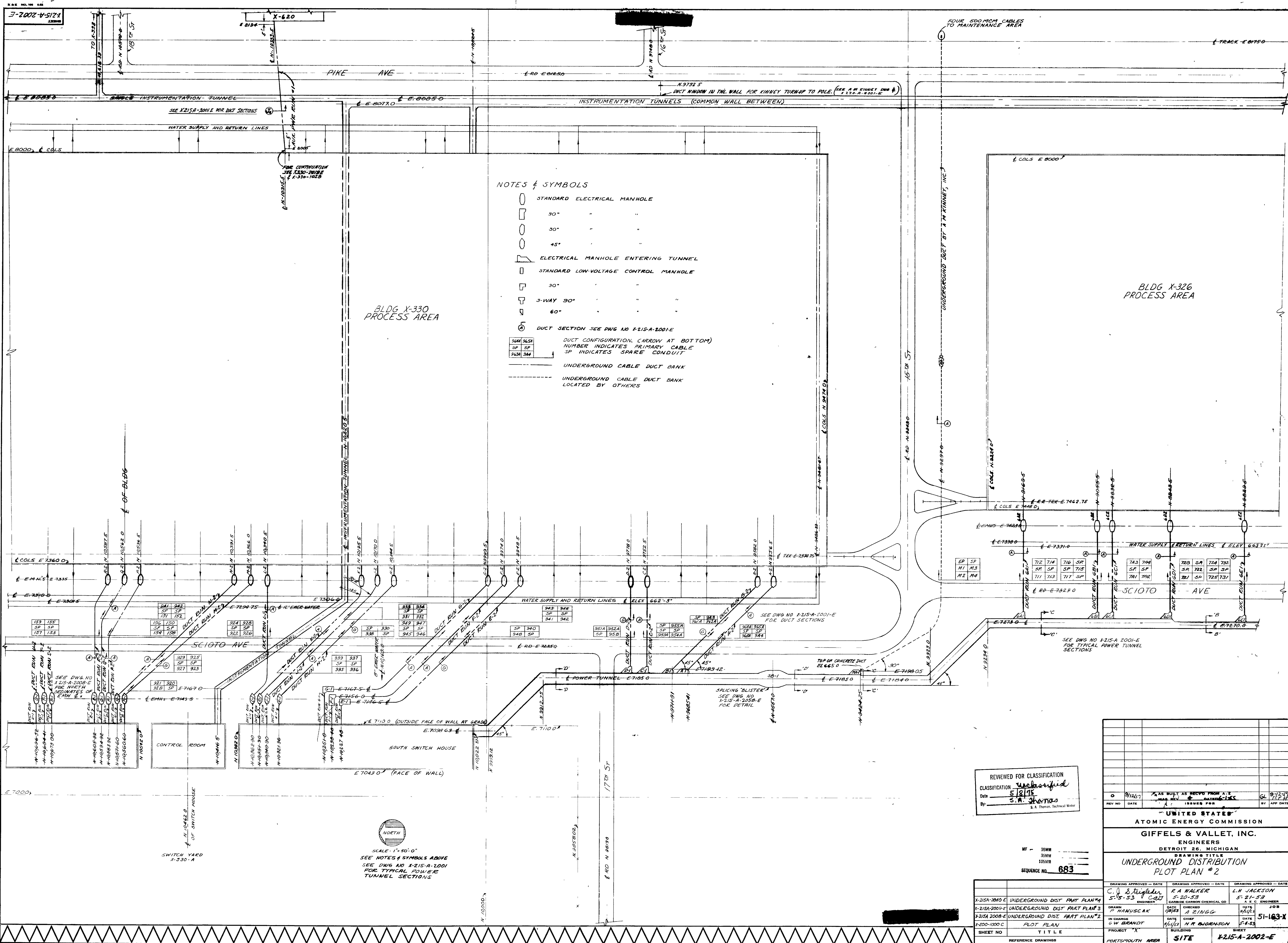
FOR LIST OF DRAWINGS SEE SW 3-5

X-333-99-5	PIVOTAL MARK DETAILS
X-333-100-5	ELECTRICAL MARKS
X-333-101-5	ELECTRICAL UNDERGROUND INFORMATION
X-333-102-5	PLUMBING UNDERGROUND DRAINAGE
X-333-103-5	GROUND FLOOD MARKS
X-333-104-5	GROUND FLOOD WATER DRAINAGE

SHEET NO.	TITLE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	SCALE	PROJECT NO.	SHEET NO.	TITLE	DATE	DRAWN BY	CHECKED BY	APPROVED BY	SCALE	PROJECT NO.



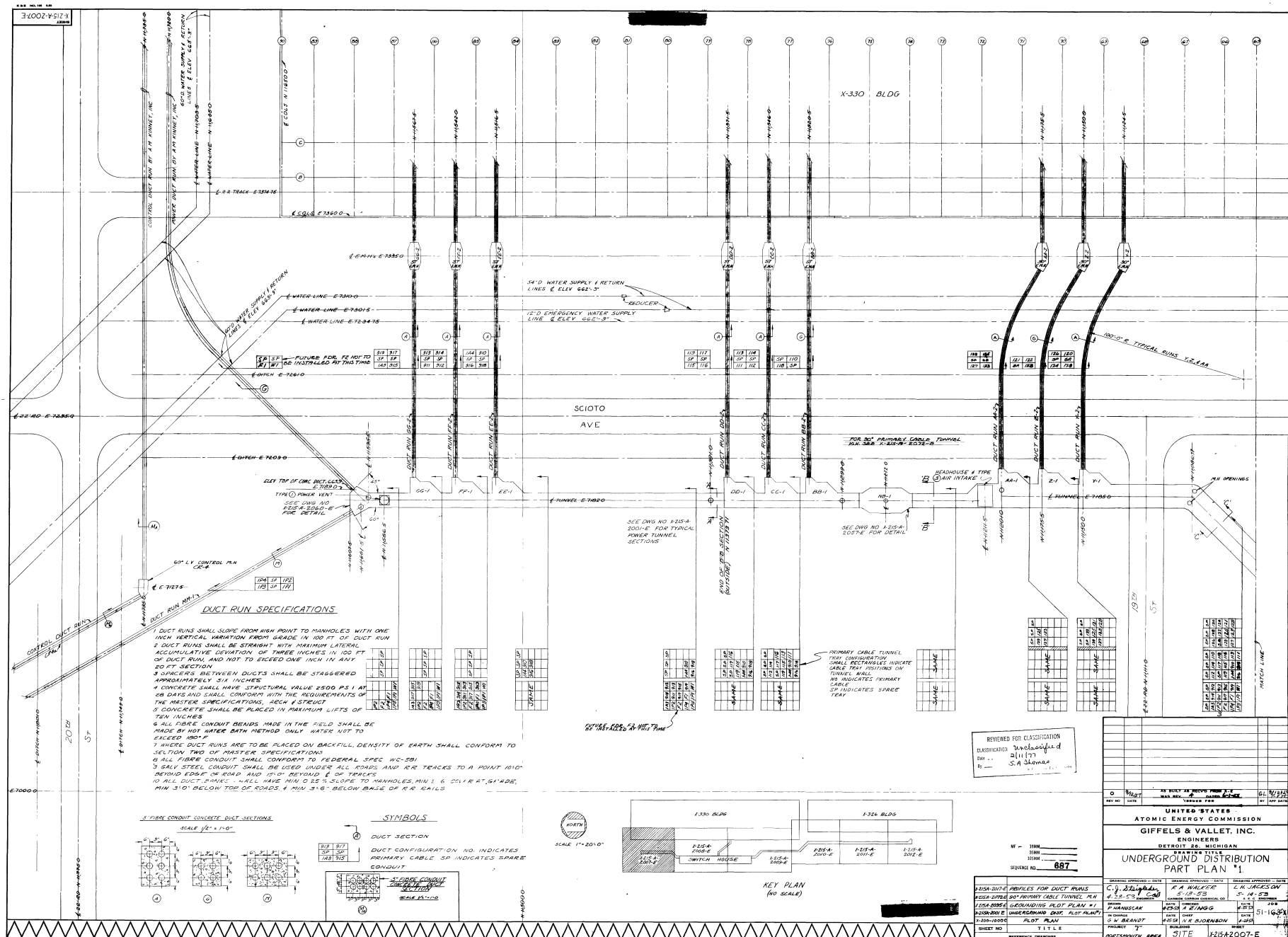
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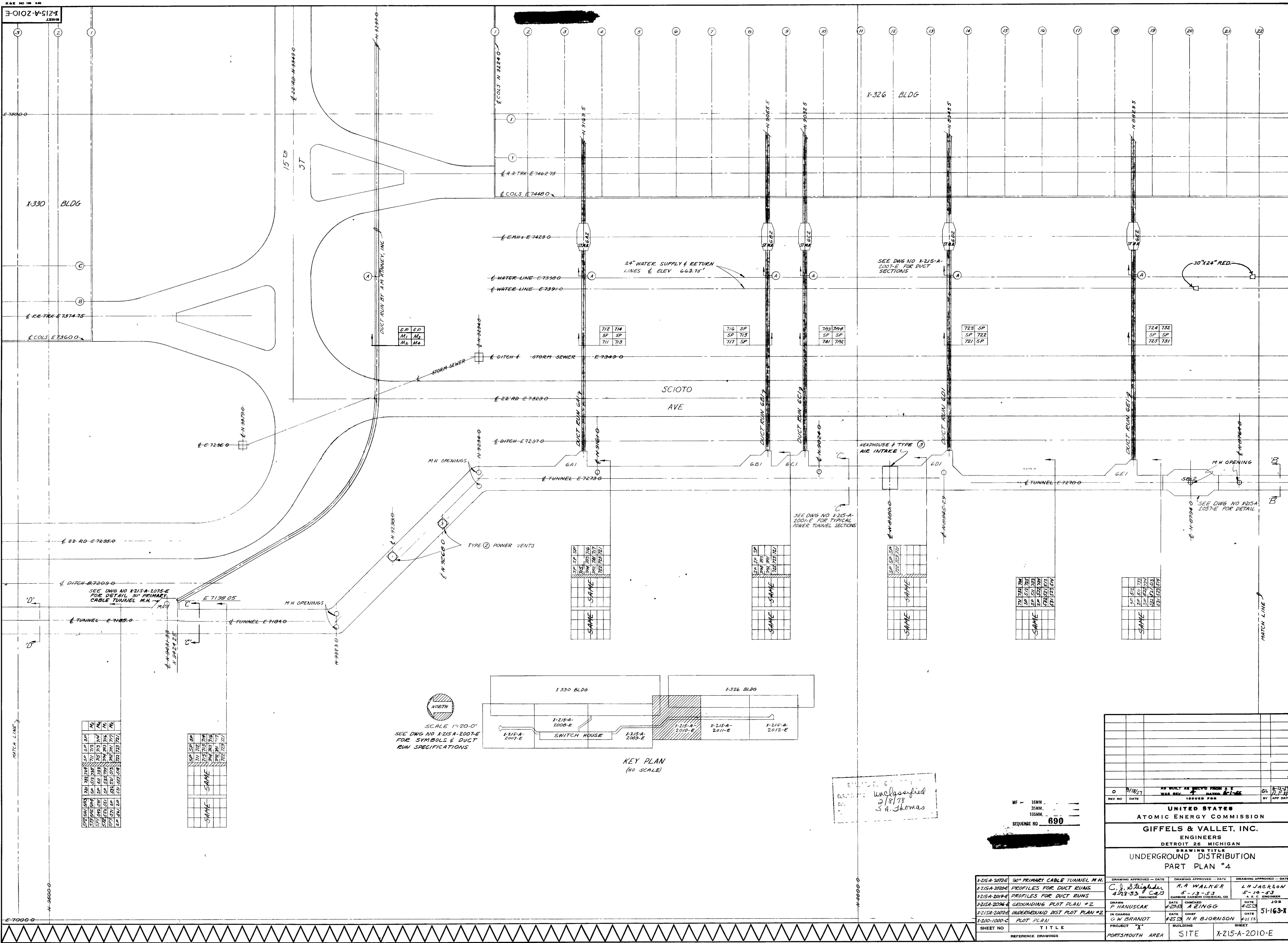


REVIEWED FOR CLASSIFICATION
CLASSIFICATION Unclassified
Date 5/18/75
By S. A. Sharma
& A. Thomas, Technical Editor

MF - 16MM
35MM
105MM
SEQUENCE NO. **683**

O 9/18/67		AS BUILT AS RECD FROM A.E.C. REV. 1		GL 9/25/71	
REV NO	DATE	ISSUED FOR	BY	APP DATE	
UNITED STATES ATOMIC ENERGY COMMISSION ENGINEERS GIFFELS & VALLET, INC. DETROIT 26, MICHIGAN DRAWING TITLE UNDERGROUND DISTRIBUTION PLOT PLAN #2					
DRAWING APPROVED - DATE C. J. Steigler 5-15-53		DRAWING APPROVED - DATE R. A. WALKER 5-20-53		DRAWING APPROVED - DATE L. N. JACKSON 5-21-53	
DRAWN P. MANUSCAK		CHECKED J. E. INGGR		DATE 9/14/53	
IN CHARGE G. W. BRANDT		DATE 11/11/53		DATE 5-4-53	
PROJECT PORTSMOUTH AREA		BUILDING SITE		SHEET K-215-A-2002-E	





REVISIONS
UNCLASSIFIED
3/8/78
S.A. Thomas

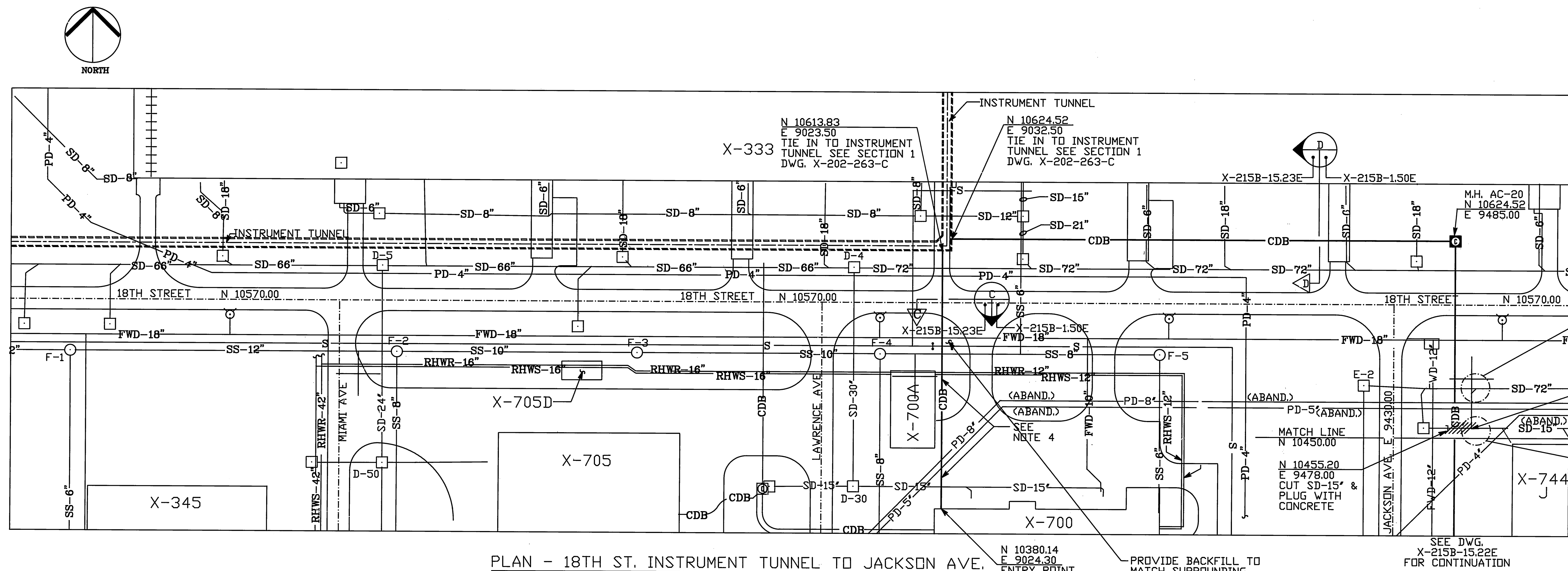
MF - 16MM
35MM
105MM
SEQUENCE NO. 690

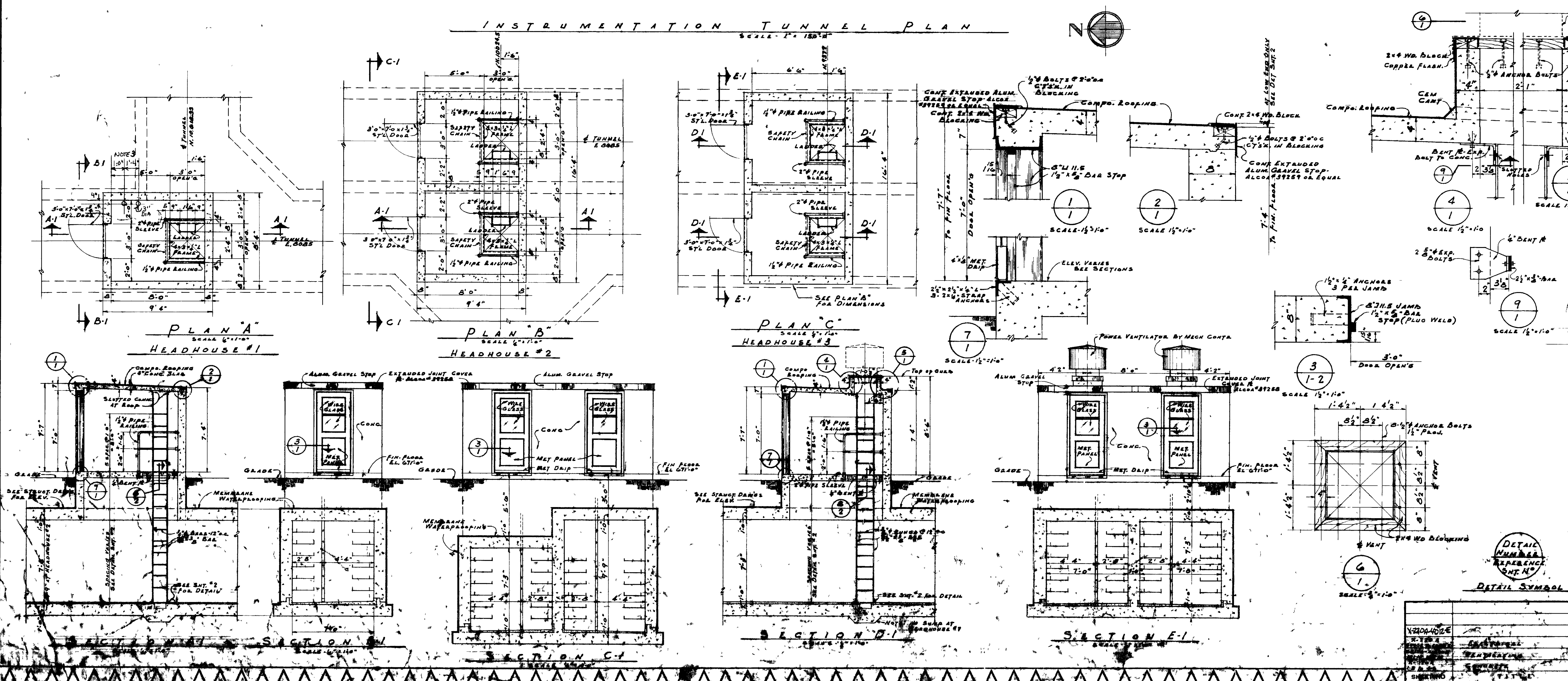
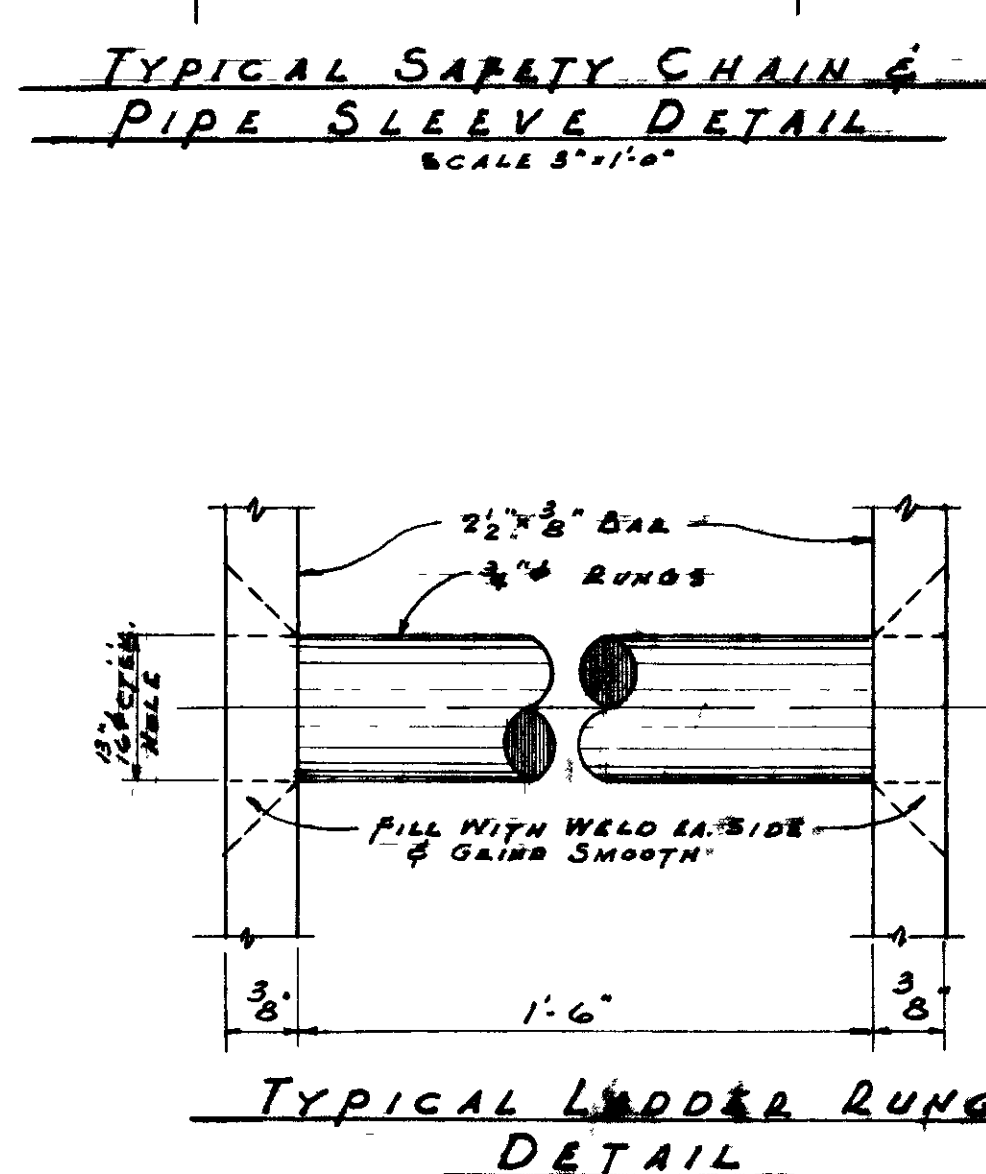
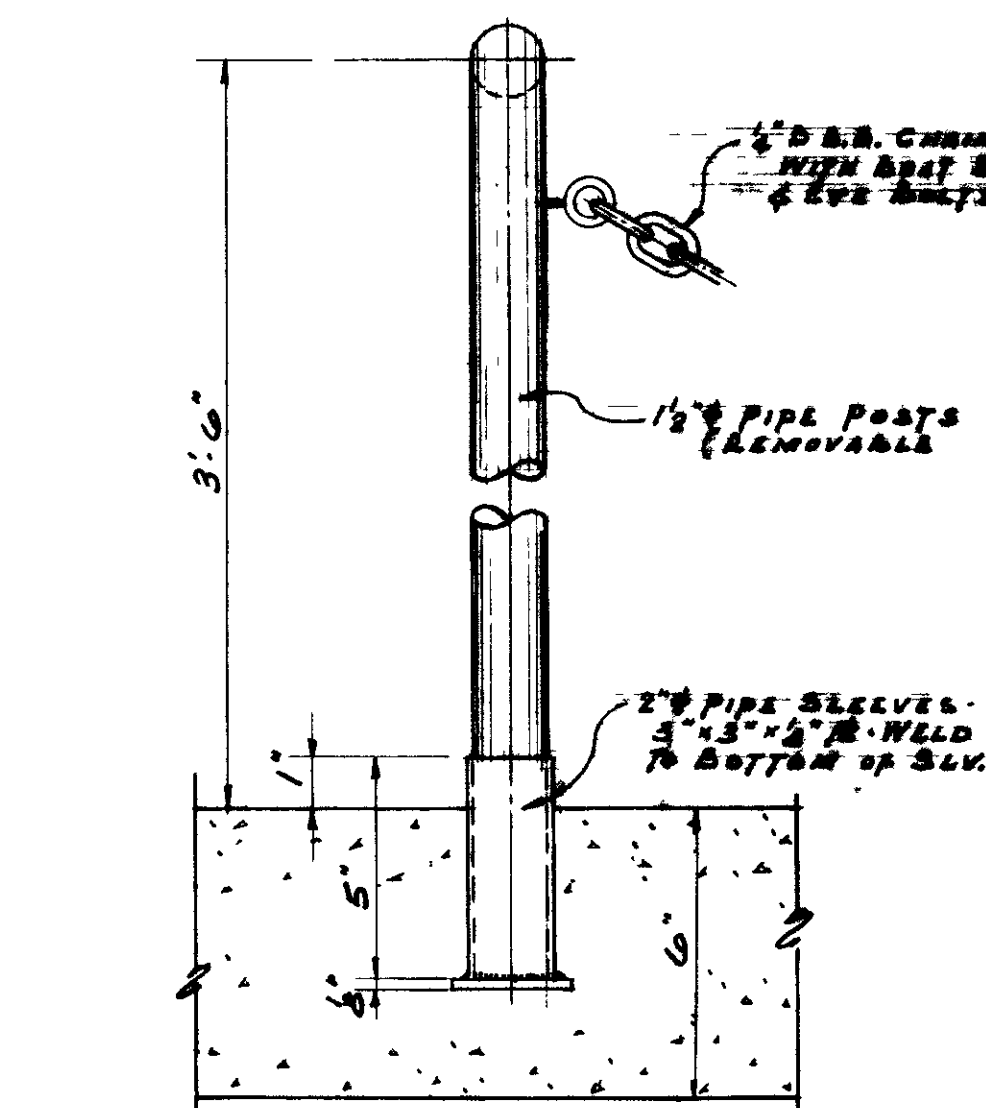
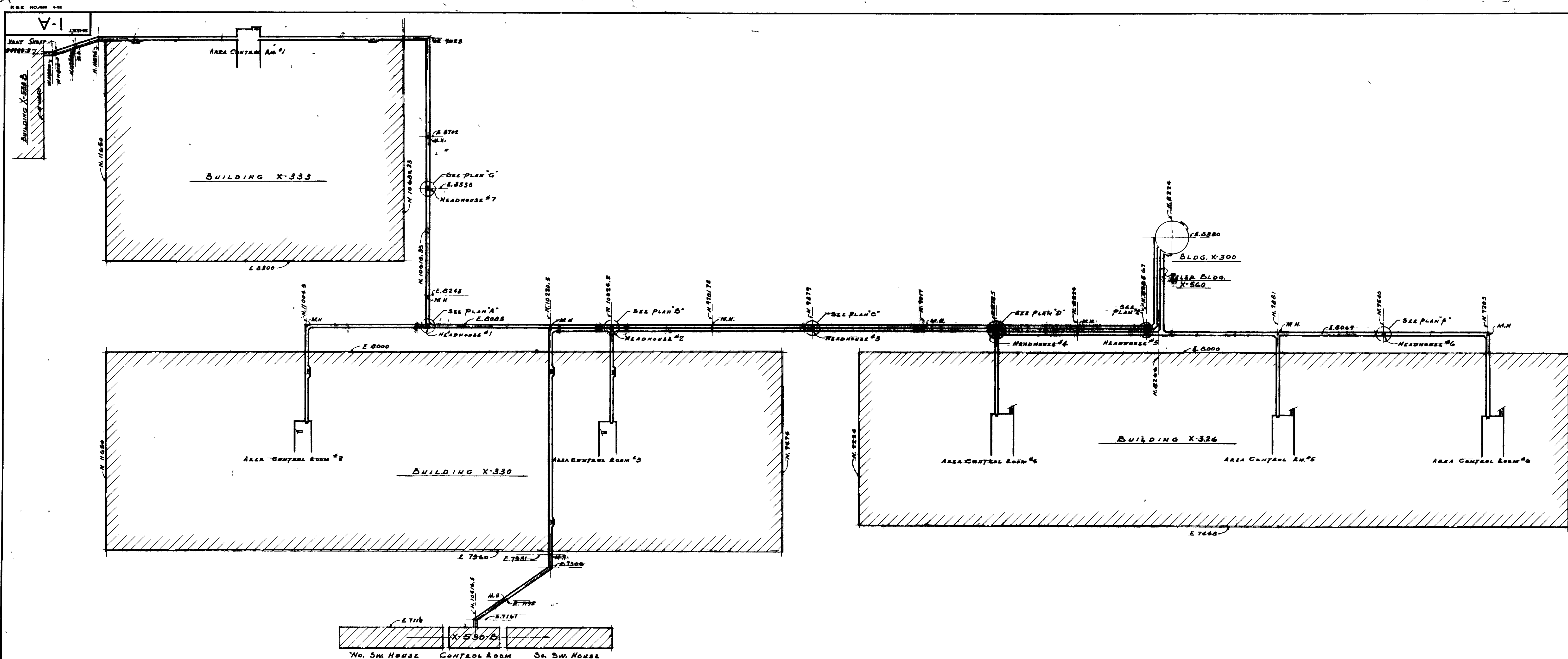
DRAWING APPROVED - DATE		DRAWING APPROVED - DATE	
C. J. Stiggle		L. H. JACKSON	
4/28/53		5-18-53	
ENGINEER		ENGINEER	
P. HANUSKAR		A. E. ZINGG	
DATE		DATE	
4/28/53		4/28/53	
IN CHARGE		IN CHARGE	
G. W. BRANDT		N. R. BJORNSON	
DATE		DATE	
4/28/53		4/28/53	
PROJECT		PROJECT	
PORTSMOUTH AREA		PORTSMOUTH AREA	
BUILDING		BUILDING	
SITE		SITE	
SHEET		SHEET	
X-215-A-2010-E		X-215-A-2010-E	

690

NOTES:

- SEE DRAWING X-215B-15.0E FOR LEGEND AND GENERAL NOTES. SEE DRAWING X-761-941-A FOR DRAWING INDEX.
- HERE NOTED DUCTBANK SHALL BE REINFORCED IN ACCORDANCE WITH TYPICAL REINFORCED DUCTBANK CROSS SECTION DWG-X-202-263-C. LOCATION SHOWN IS APPROXIMATE. EXTEND REINFORCING 10' MINIMUM BEYOND OUTSIDE EDGE OF PAVING, GRAVEL OR CONCRETE.
- EXERCISE EXTREME CAUTION IN EXCAVATION NEAR STEAM LINE SUPPORTS. DO NOT UNDERCUT BRAC-S OR SUPP. ORTS.
- UNDERGROUND GROUNDING FIELD HAND EXCAVATE THIS VICINITY. REPLACE ANY WIRES DISTURBED IN KIND.





- NOTES**
1. FIELD PAINT FOR STEEL DOORS & MISCELLANEOUS IRON WORK ACCORDING TO SECTIONS 28A & 28B OF MASTER SPECIFICATIONS.
 2. HANDRAILS FOR INDUSTRIAL STEEL DOORS.
 3. DOORS STANLEY A.B. 12" W.P.A.S. OR EQUAL.
 4. LUGGER (LUGS CYLINDER) WITH RINGS EACH SIDE, DOOR MANUFACTURED STANDARD HEAVY DUTY TYPE CYLINDER WAY TO ACCOMMODATE A 1/2" DIA. TALLER 1/2" DIA. CYLINDER.
 5. CORE DRILLED TWO 1/2" DIA. HOLES IN HEADHOUSE NO. 1 FLOOR PER PLAN A.

SEQUENCE NO.		DATE		BY		CHECKED		APPROVED	
1	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50
2	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50
3	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50
4	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50
5	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50
6	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50
7	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50
8	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50
9	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50
10	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50	7/2/50

ATOMIC ENERGY COMMISSION

GIFFELS & VALLET, INC.

ENGINEERS

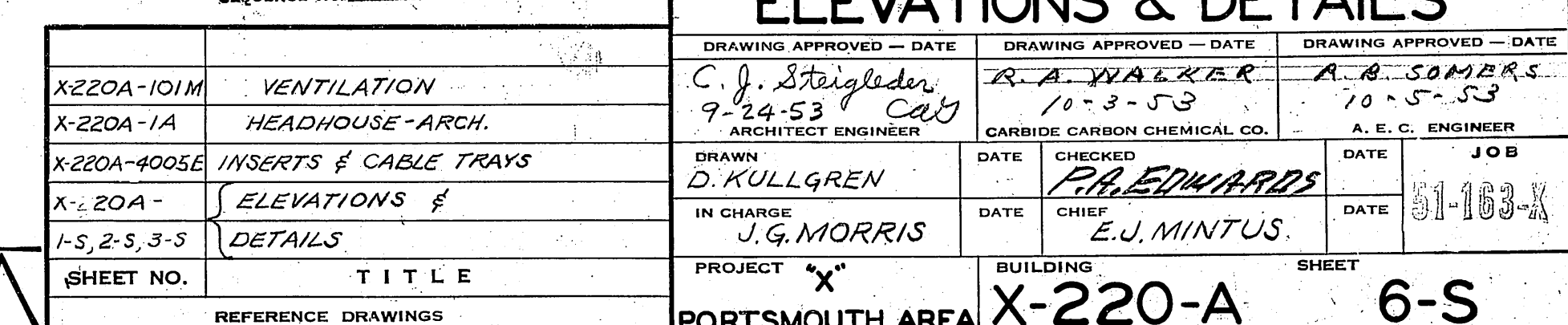
DETROIT 261 MICHIGAN

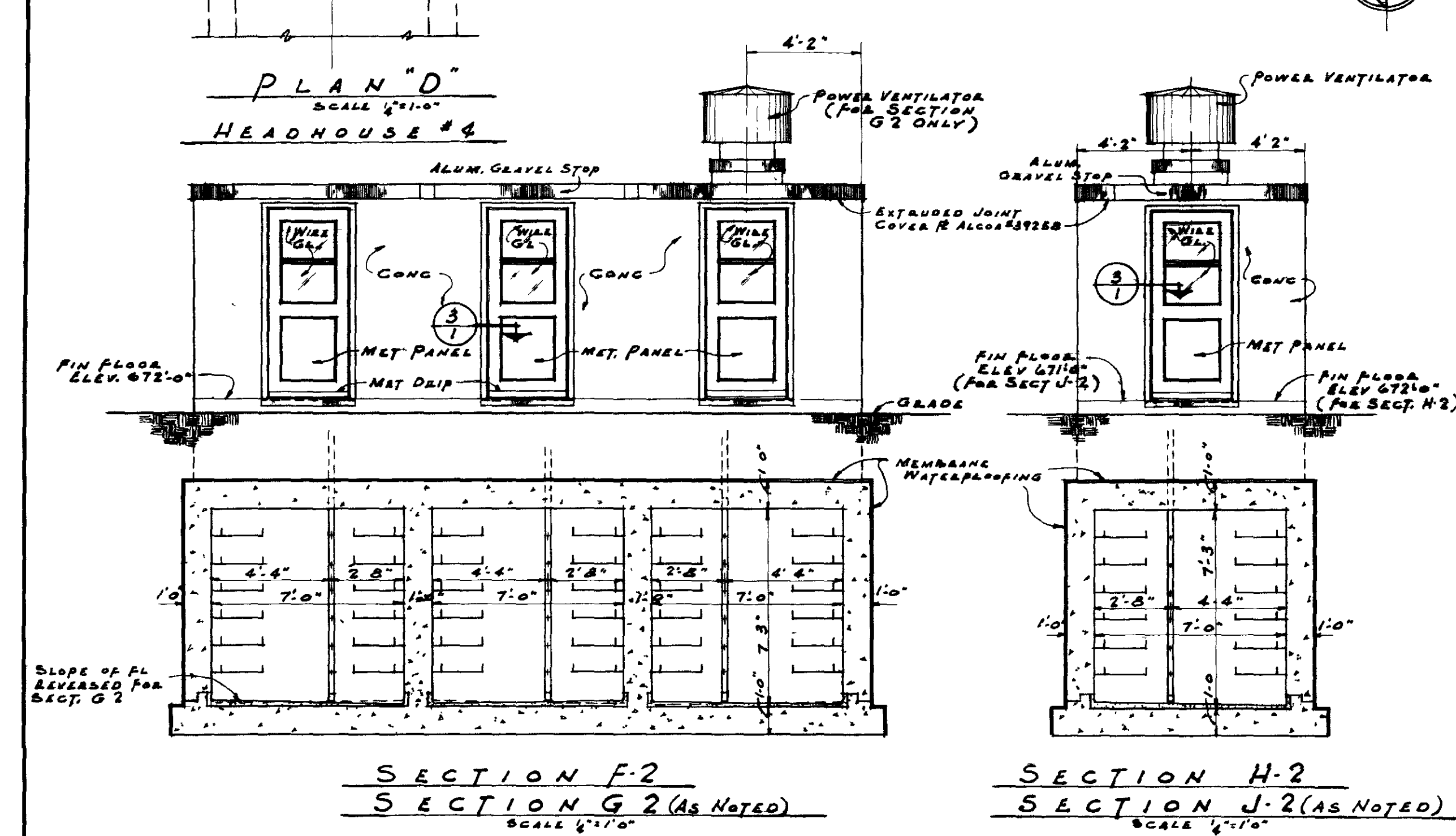
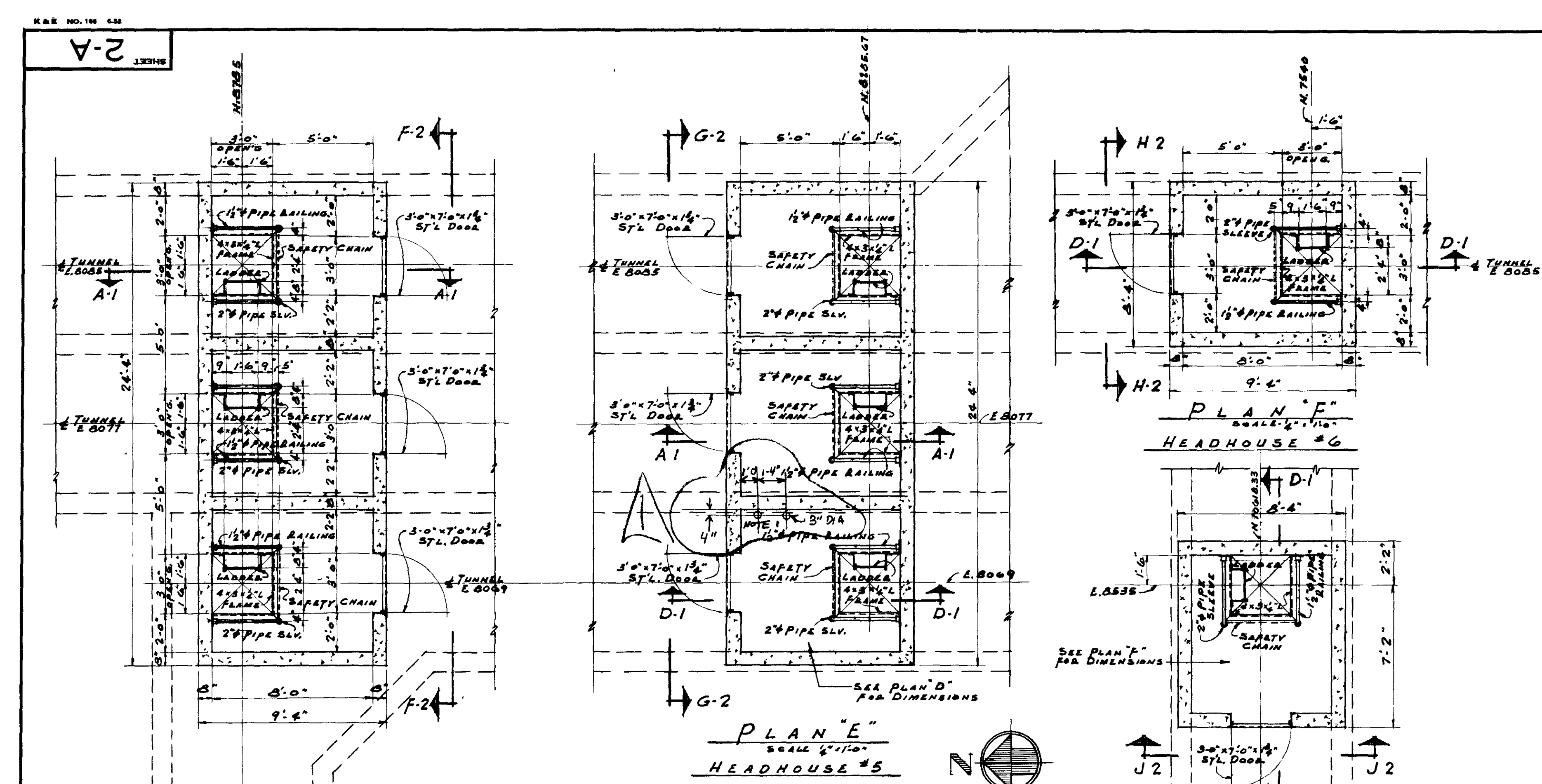
PLANS, SECTIONS, ELEVATIONS OF

HEADHOUSES FOR INSTRUMENTATION

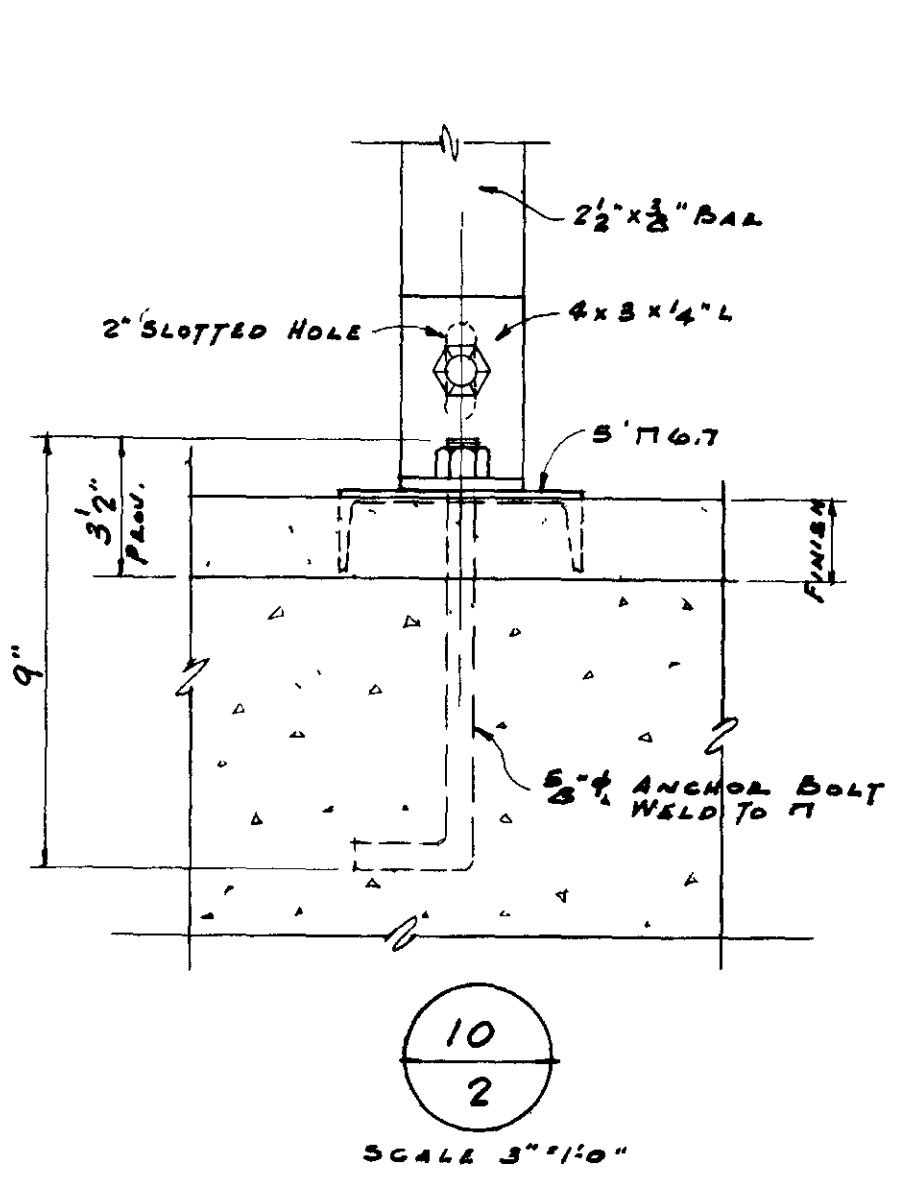
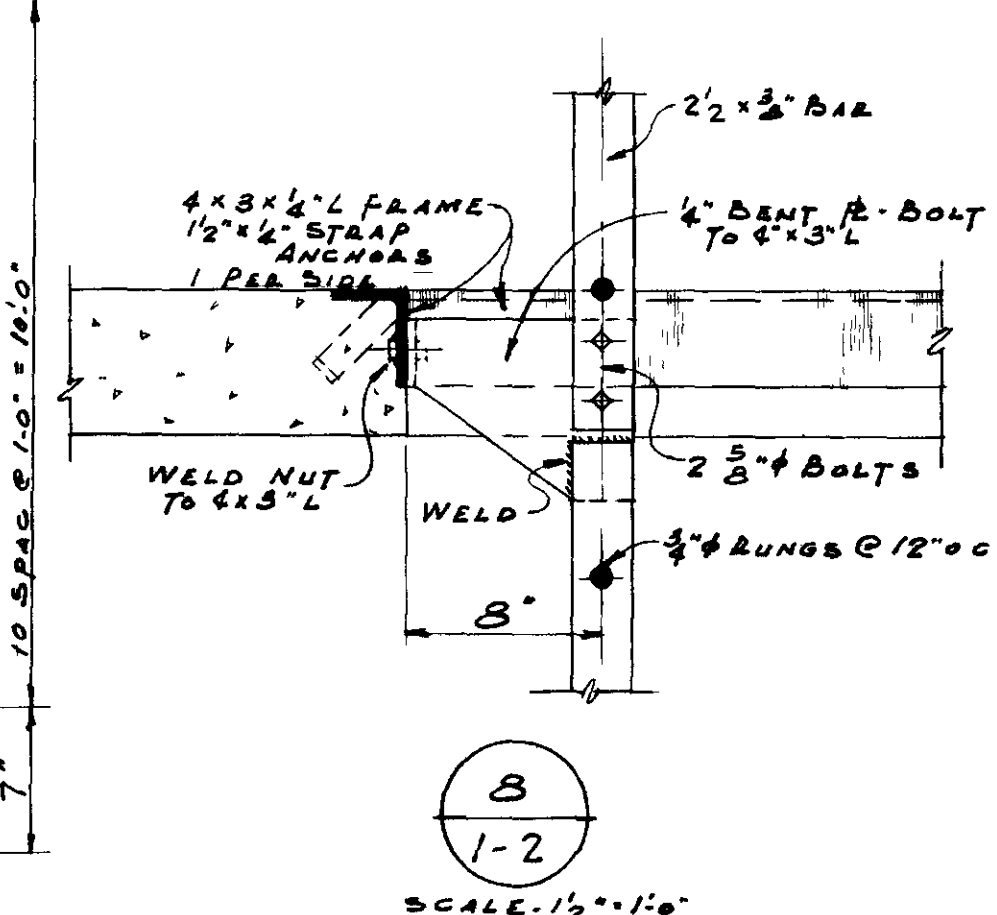
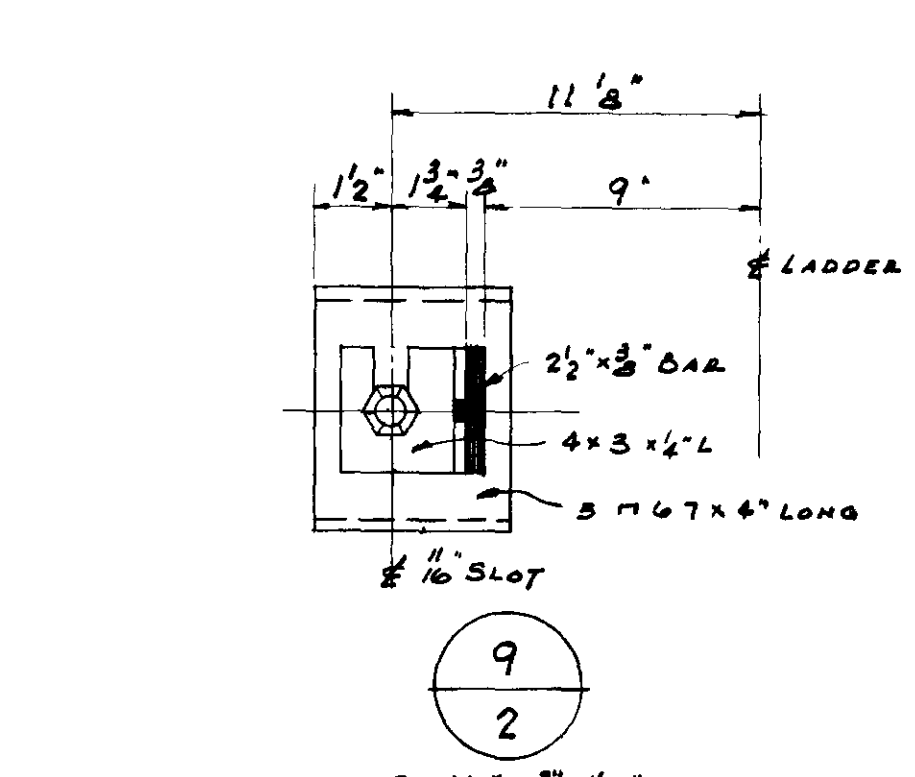
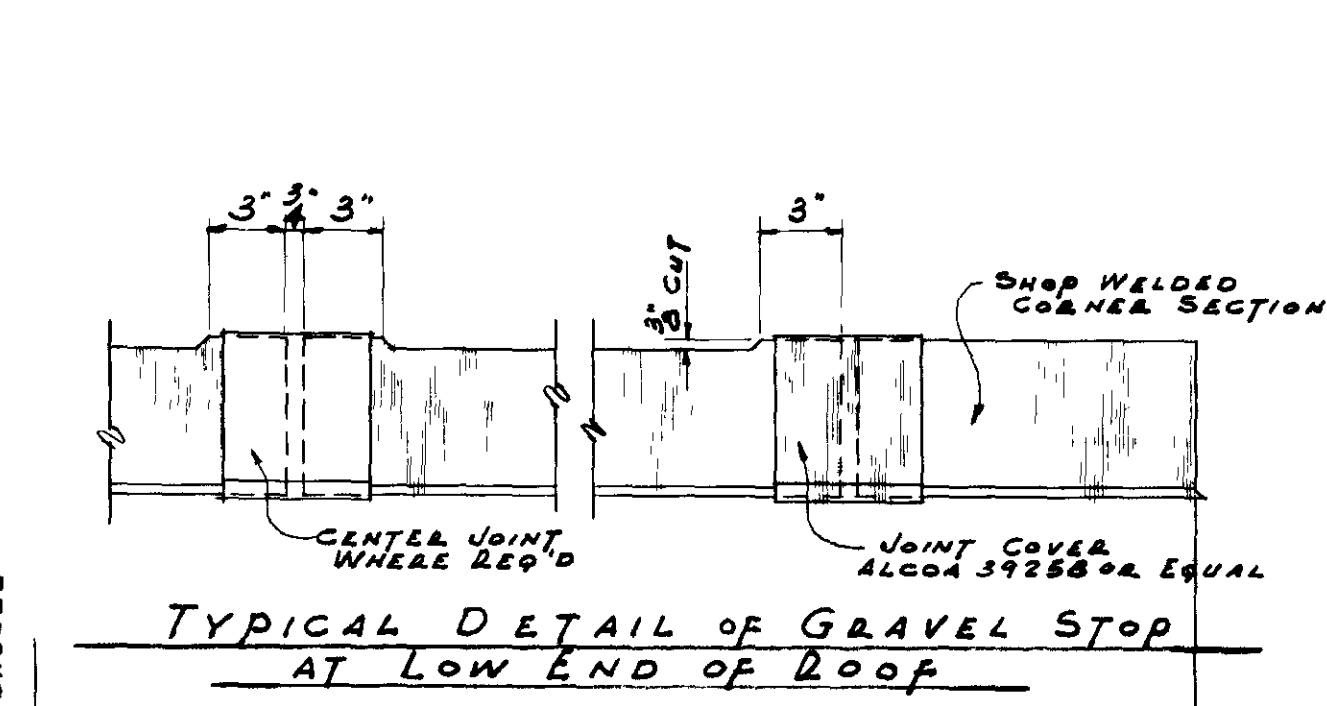
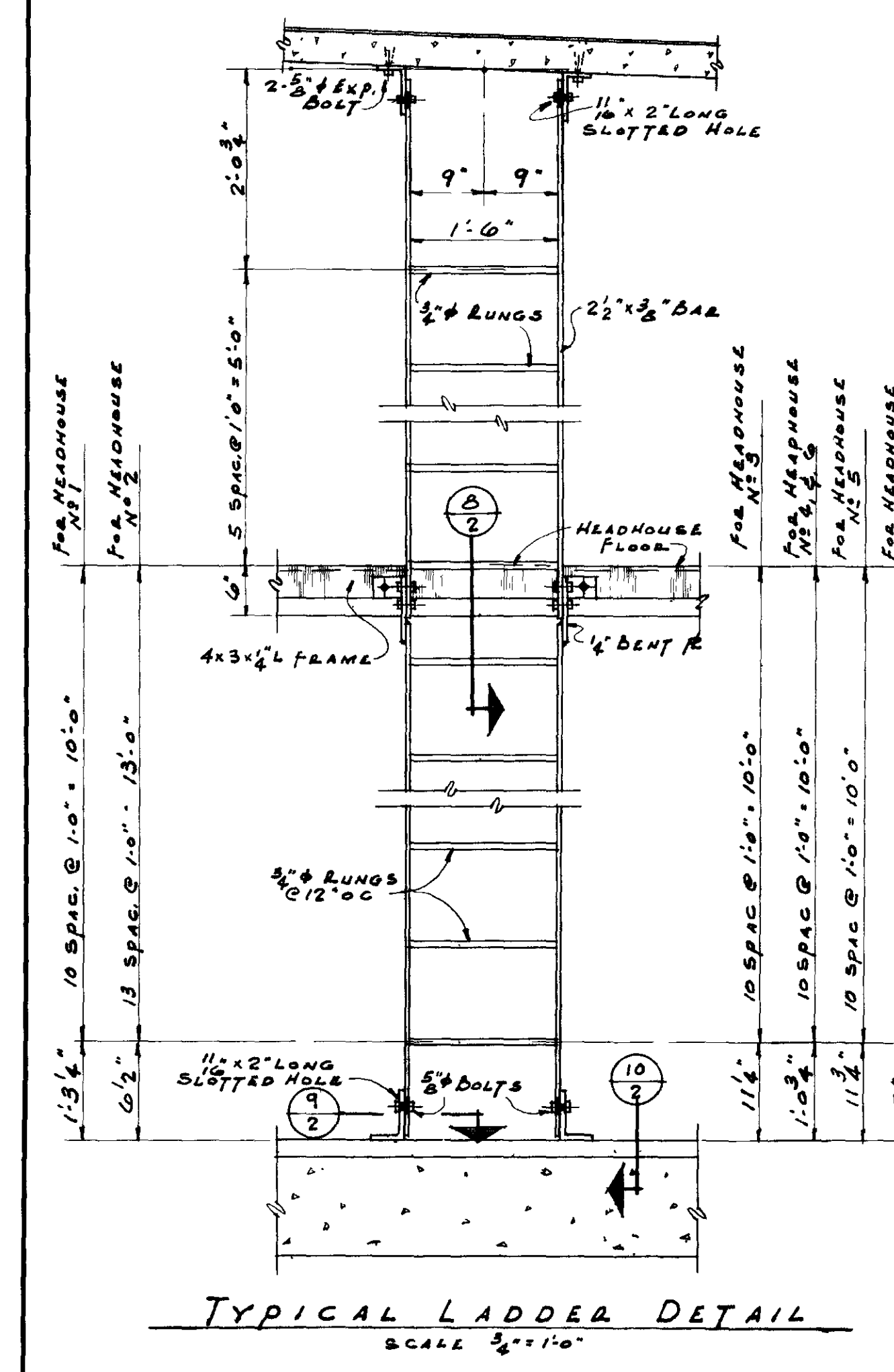
TUNNEL

X-220-A



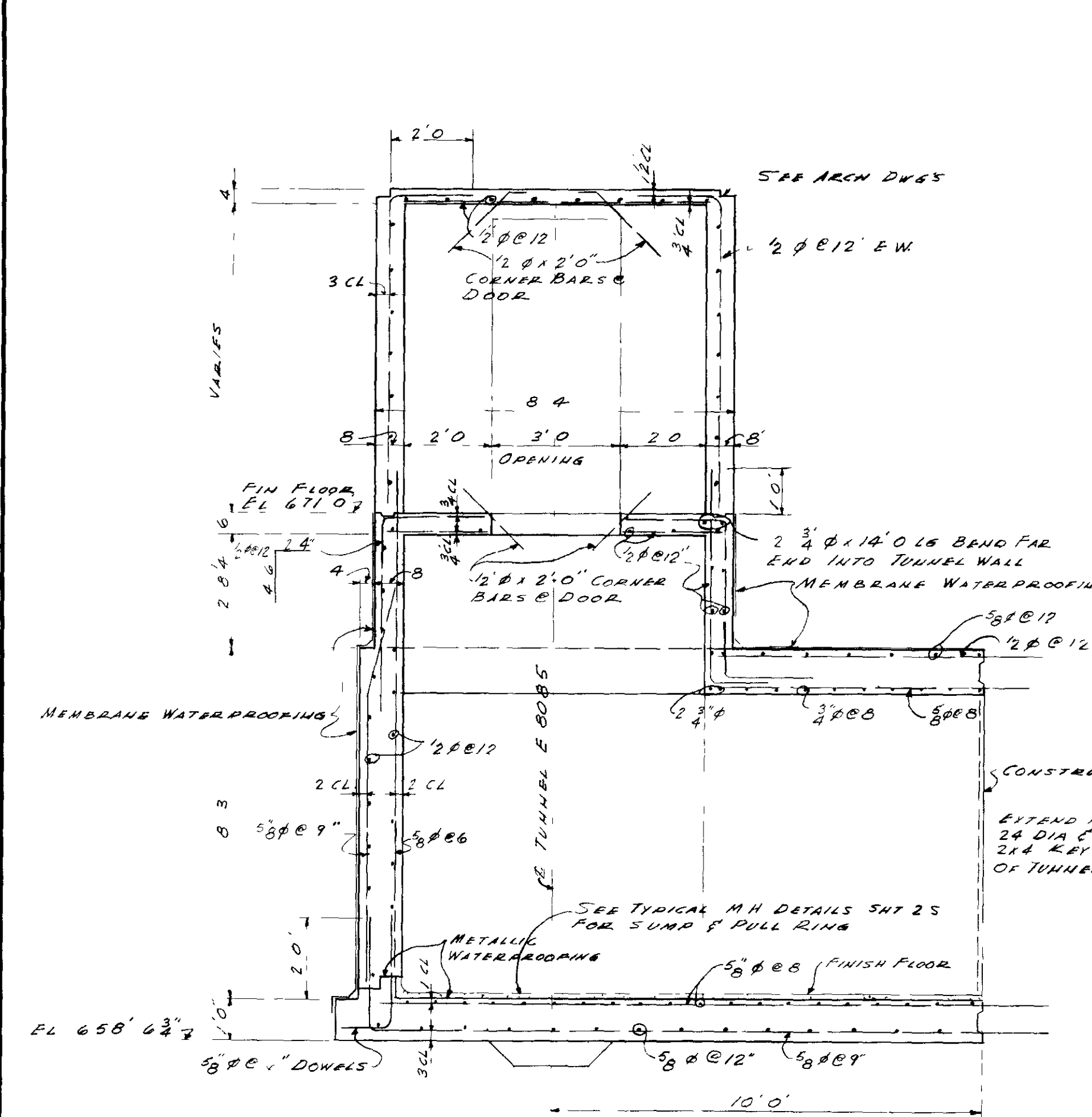


NOTES:
1. CORE DRILLED TWO 3" DIA HOLES IN HEADHOUSE NO. 5 OVER X-326 INSIDE TUNNEL PER PLAN "E".

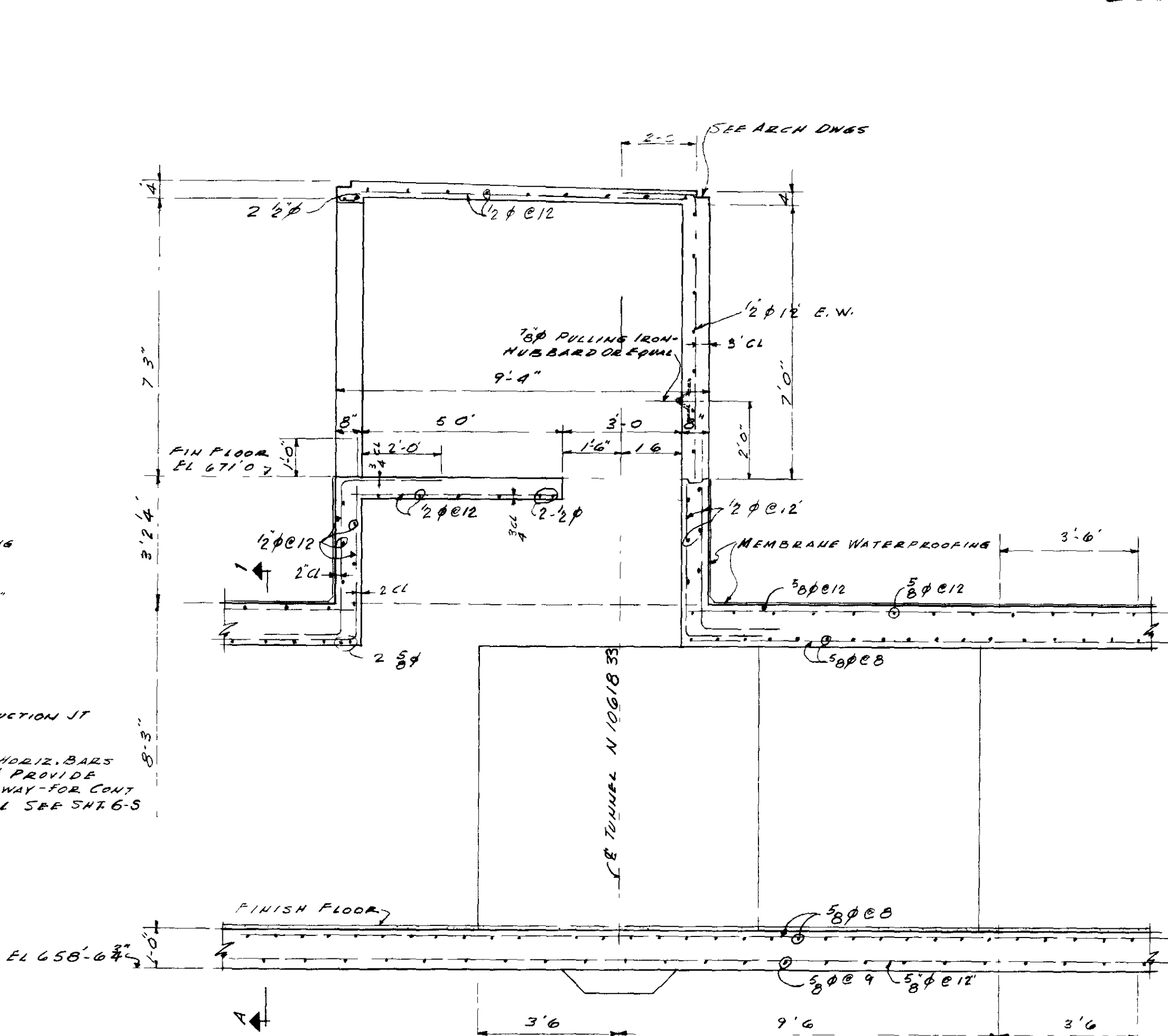


DETAIL SYMBOL

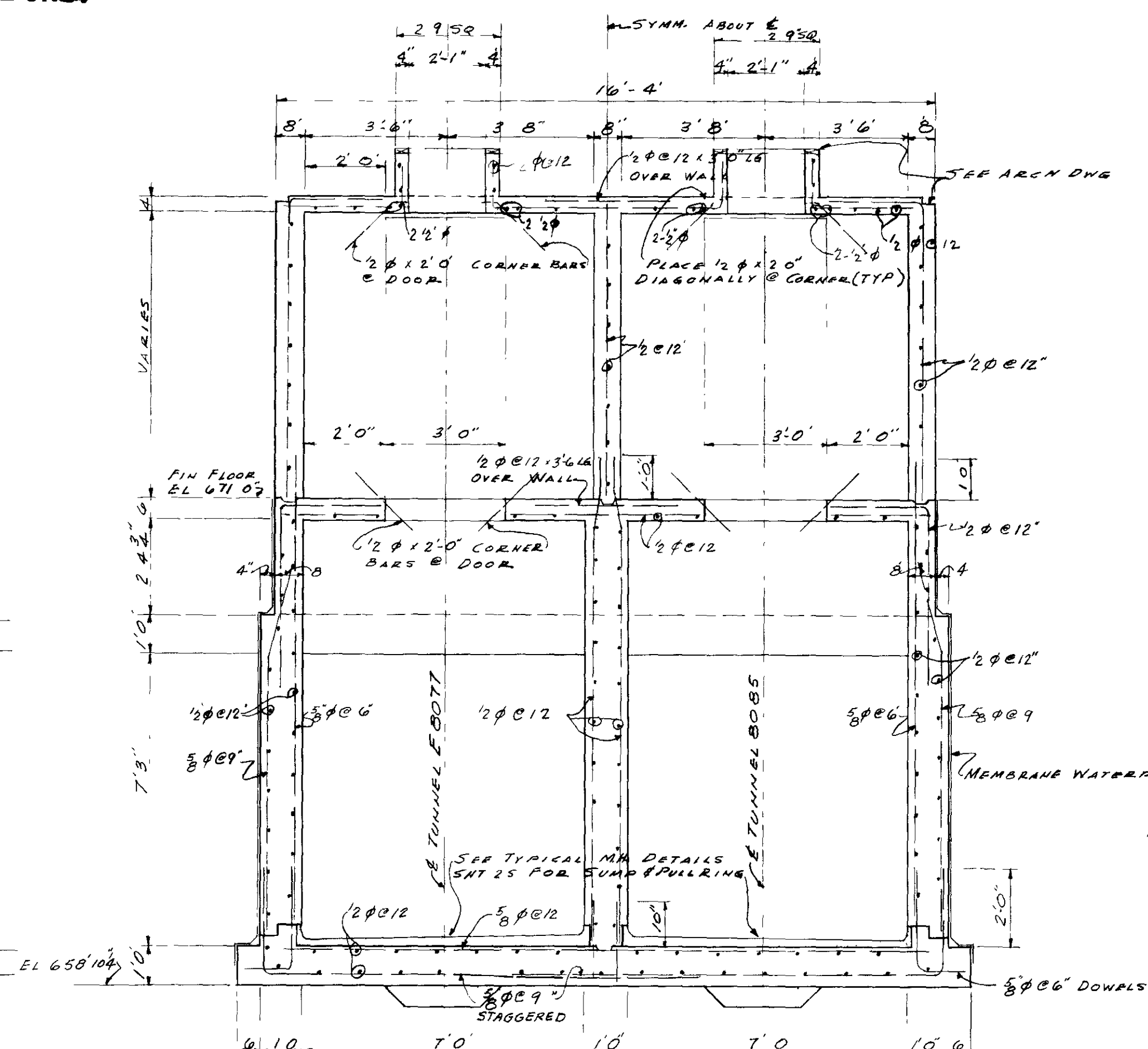
UNITED STATES ATOMIC ENERGY COMMISSION			
GIFFELS & VALLET, INC. ENGINEERS DETROIT 26, MICHIGAN			
DRAWING TITLE PLANS, SECTIONS, & ELEVATIONS OF HEADHOUSES FOR INSTRUMENTATION TUNNEL			
DRAWING APPROVED - DATE	DRAWING APPROVED - DATE	DRAWING APPROVED - DATE	DRAWING APPROVED - DATE
C. J. S. [Signature]	A. H. WALKER	L. H. JONES	
5/14/53	5/14/53	5/14/53	
ENGINEER	ENGINEER	ENGINEER	ENGINEER
IN CHARGE	IN CHARGE	IN CHARGE	IN CHARGE
W. J. [Signature]	W. J. [Signature]	W. J. [Signature]	W. J. [Signature]
5/14/53	5/14/53	5/14/53	5/14/53
DATE	DATE	DATE	DATE
PROJECT	BUILDING	SHEET	
X-220-A	X-220-A	2-A	



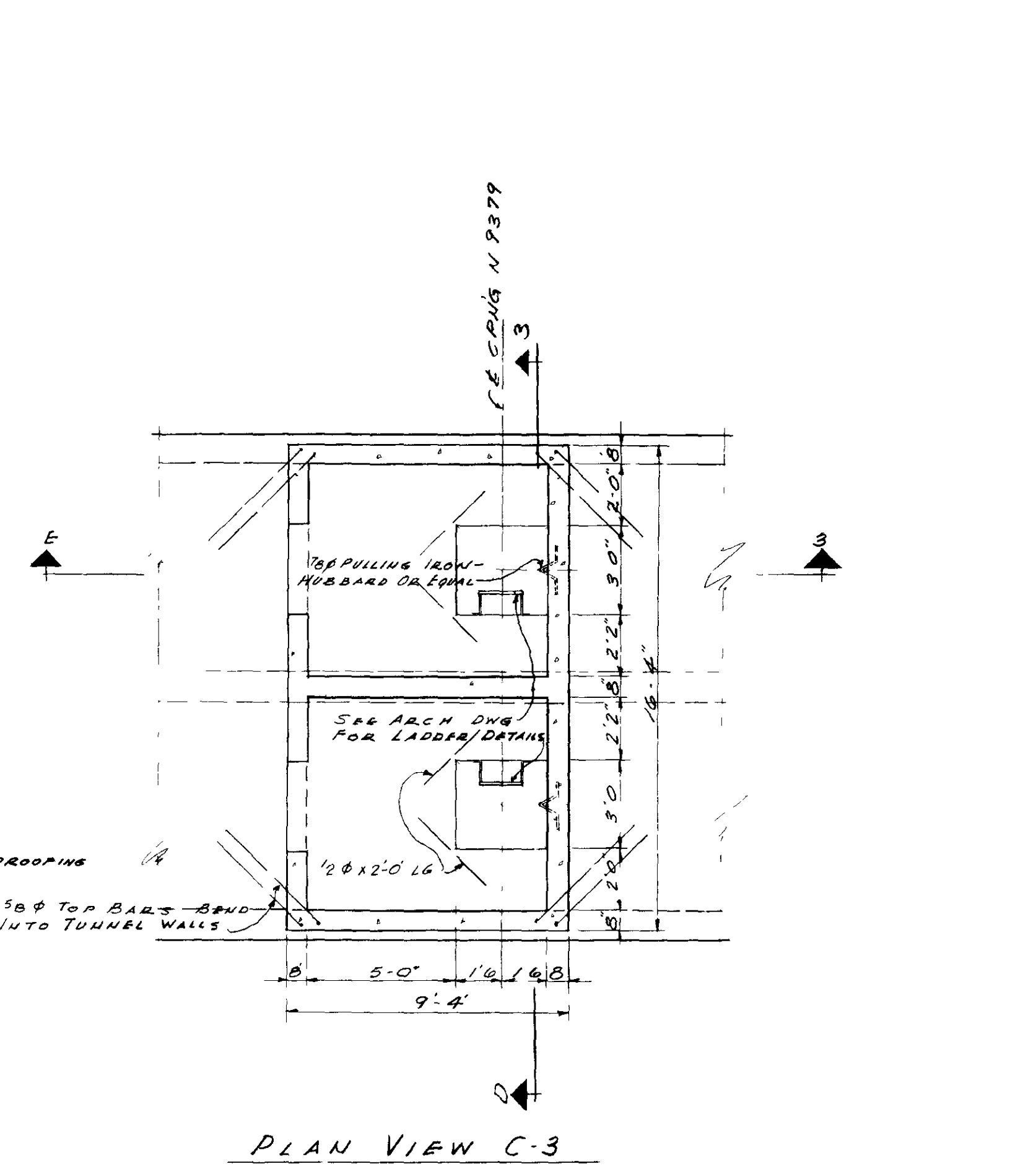
SECTION A-3
SCALE 3/8" = 1'-0"



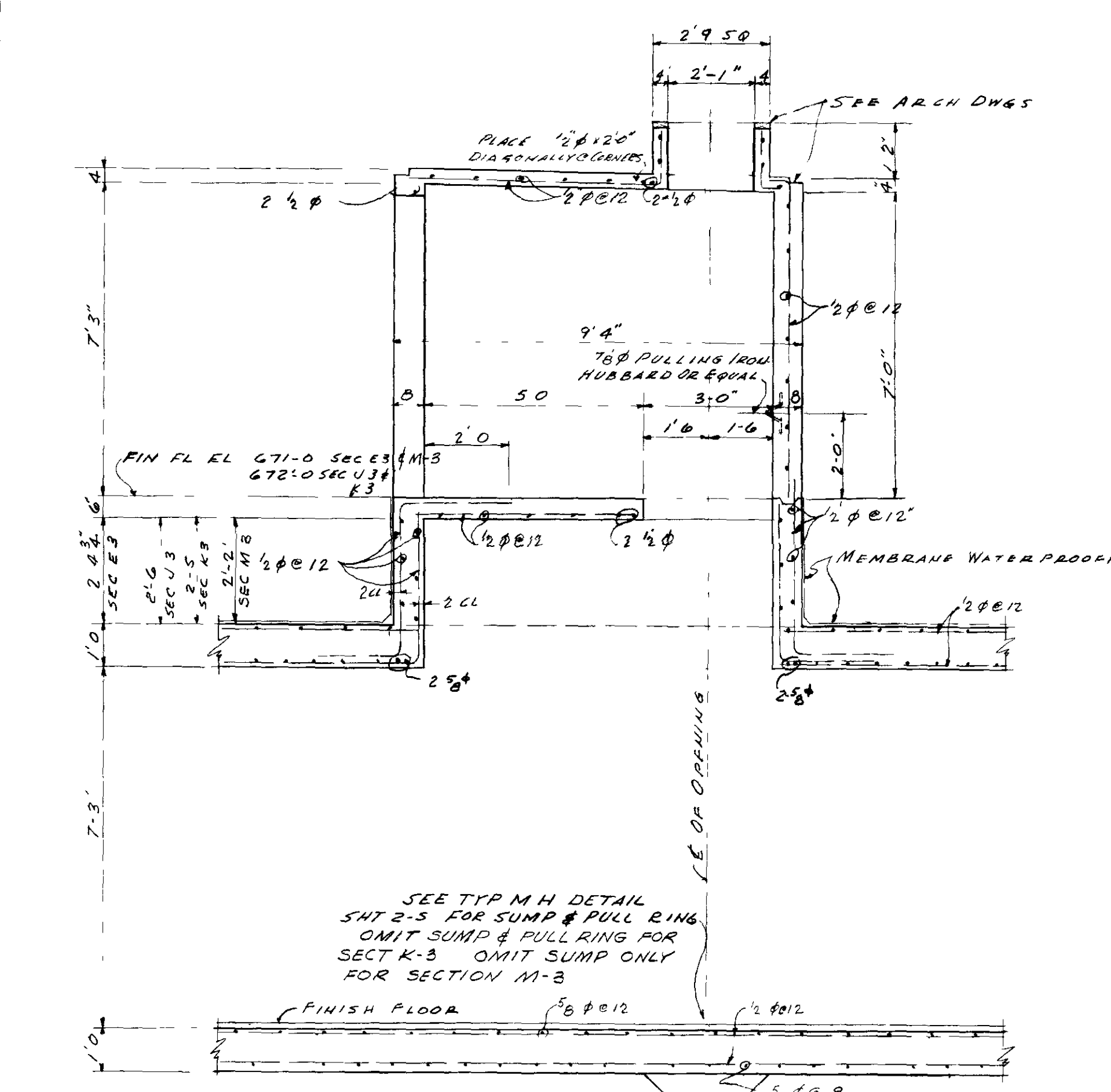
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SCALE 3/8" = 1'-0"



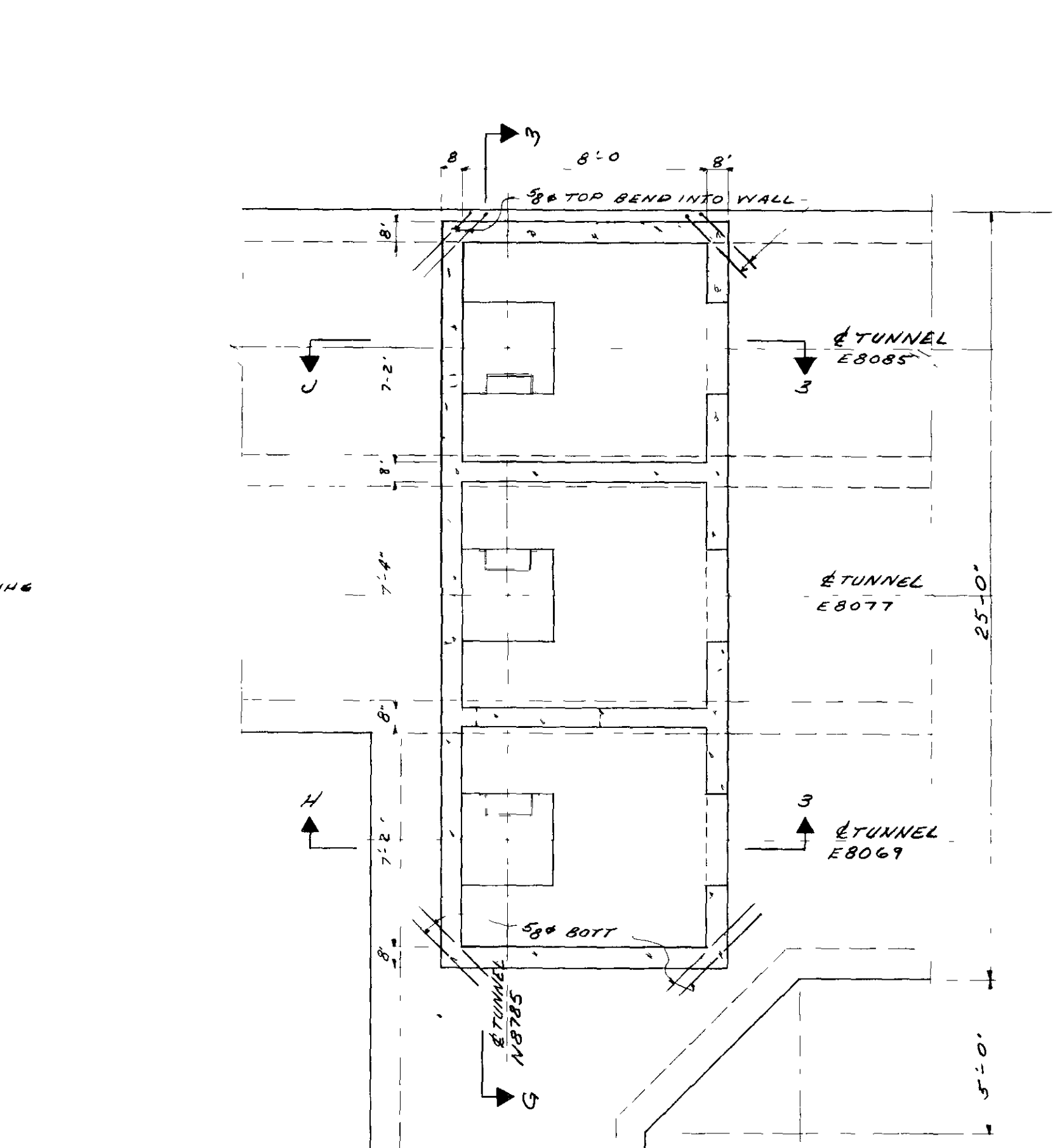
SECTION D-3
SCALE 3/8" = 1'-0"



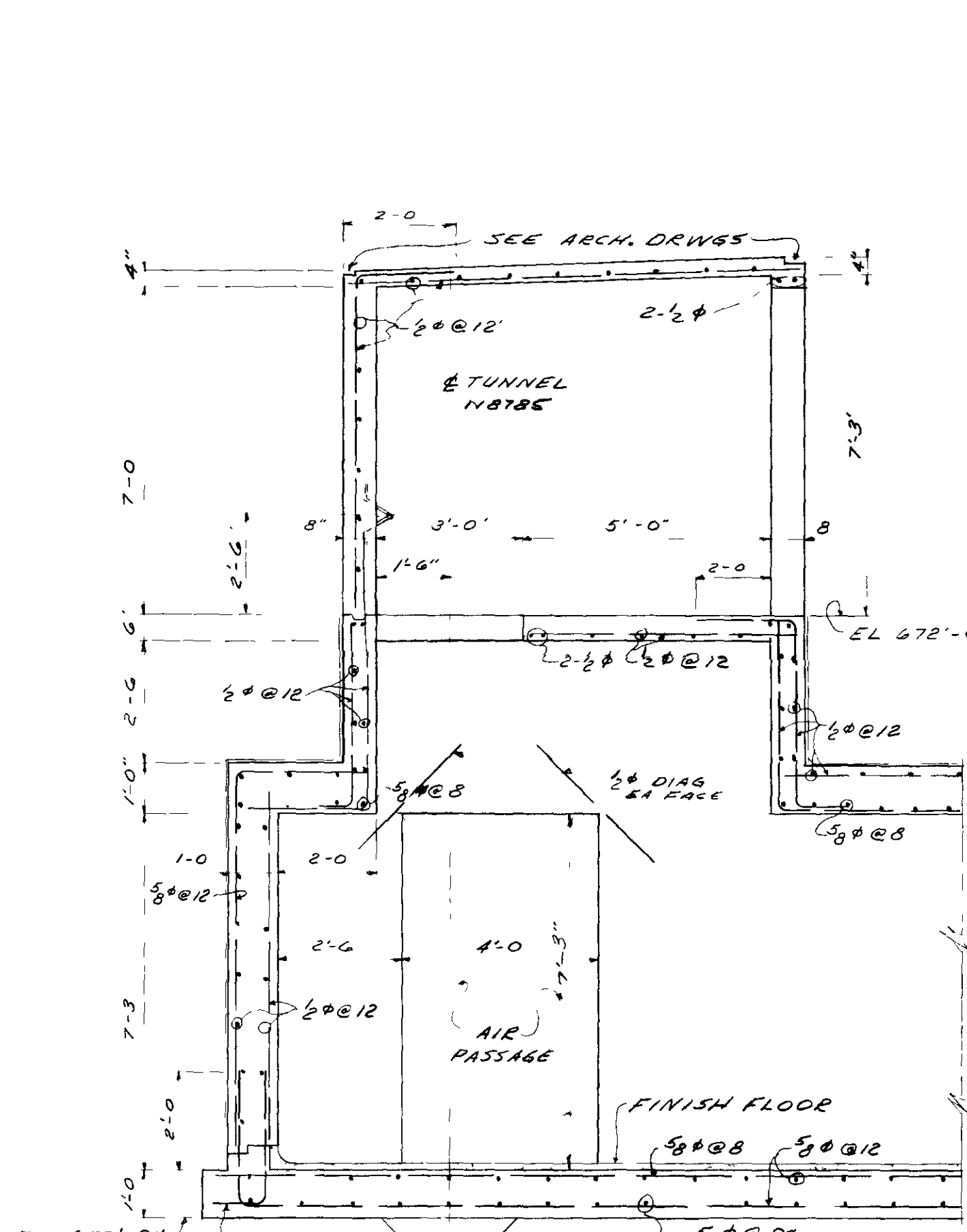
PLAN VIEW C-3
SCALE 3/8" = 1'-0"



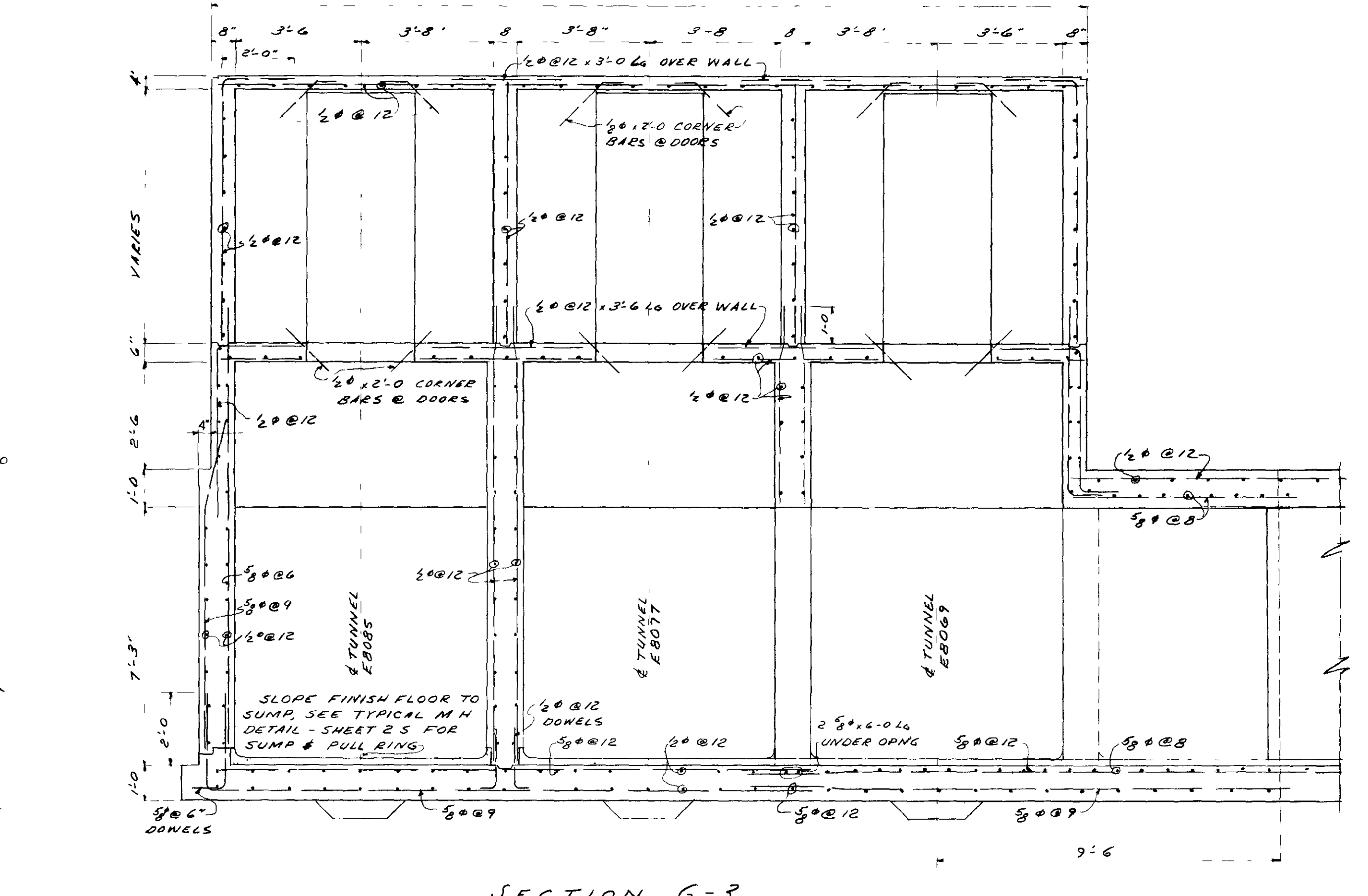
SECTION E-3 (AS NOTED)
SECTION U-3 (AS NOTED)
SECTION K-3 (AS NOTED)
SECTION M-3 (AS NOTED)
SCALE 3/8" = 1'-0"



PLAN VIEW F-3
SCALE 3/8" = 1'-0"



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



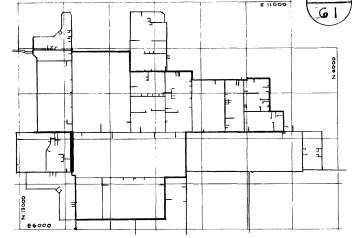
SECTION G-3
SCALE 3/8" = 1'-0"

NOTE
FOR DETAILS NOT SHOWN
SEE ARCH DWGS X-220-A 11 & 24

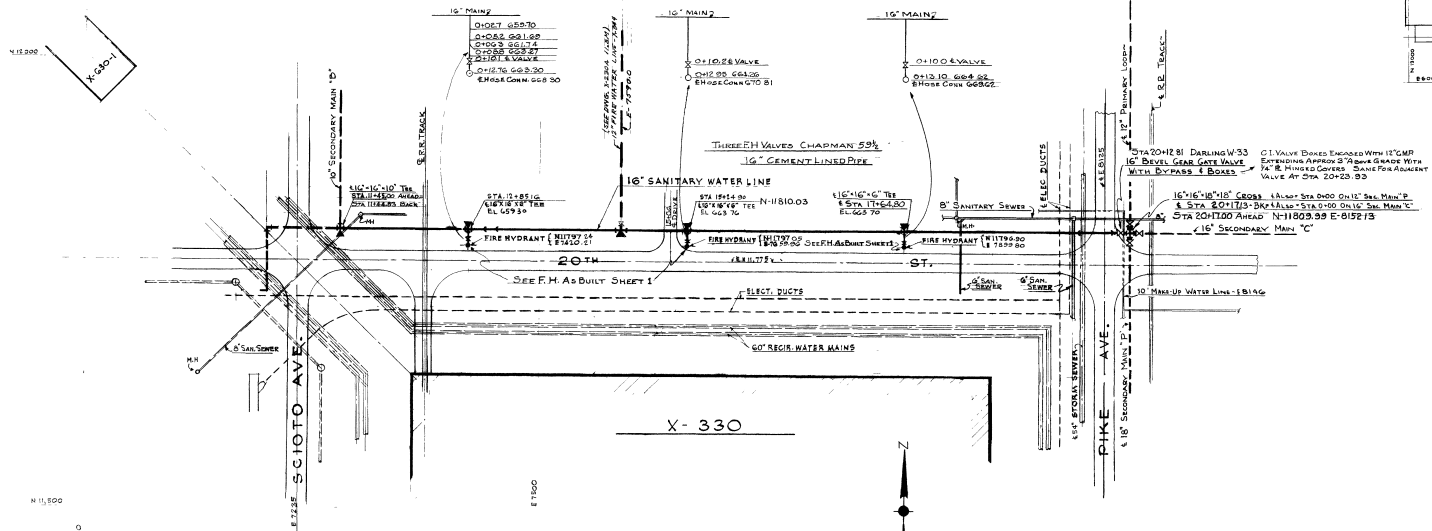
Indefinite
11/2/76
S.A. Thomas

MF - 35MM
35MM
202MM

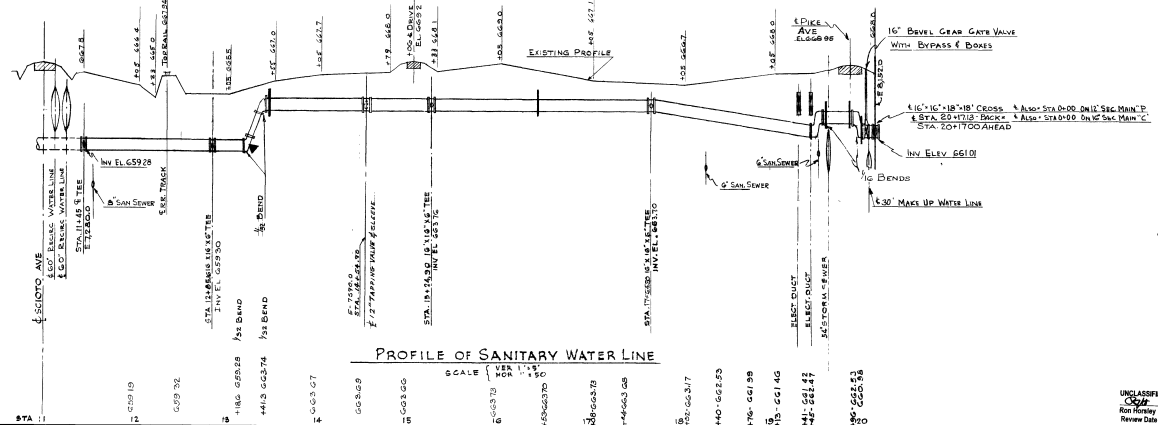
DATE	BY	APP'D	DATE	BY	APP'D
12/1/63	WAS	REV. 4	DATED 12-12-55	WAS	REV. 4
UNITED STATES ATOMIC ENERGY COMMISSION Giffels & Vallet, Inc. ENGINEERS DETROIT 26 MICHIGAN					
DRAWING TITLE INST. TUNNEL TO BLDG X330 HEADHOUSE DETAILS					
DESIGNED BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
C. J. Stimpert	3-7-53	A. A. Walker	3-7-53	C. H. Jackson	3-7-53
ARCHITECT	DATE	ENGINEER	DATE	DATE	DATE
C. H. Crowell	3-7-53	F. A. Smith	3-7-53		
IN CHARGE	DATE	DATE	DATE	DATE	DATE
J. B. Morris	3-7-53	P. J. Minner	3-7-53		
PROJECT	DATE	BUILDING	DATE	SHEET	DATE
PORTSMOUTH AREA	DATE	X-220-A	DATE	35	DATE



INDEX



PLAN OF SANITARY WATER LINE
SCALE 1" = 50'

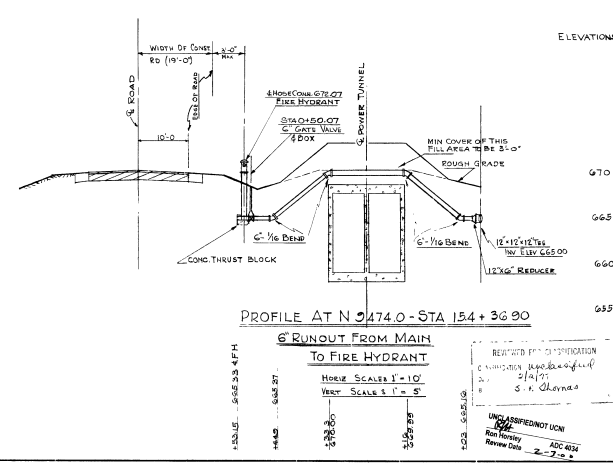
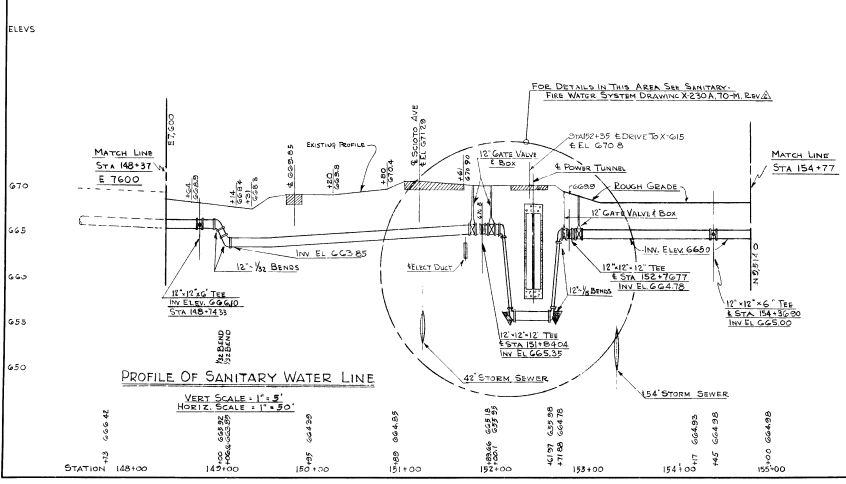
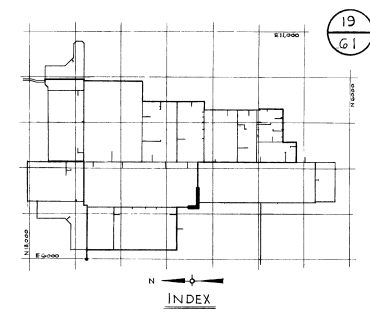
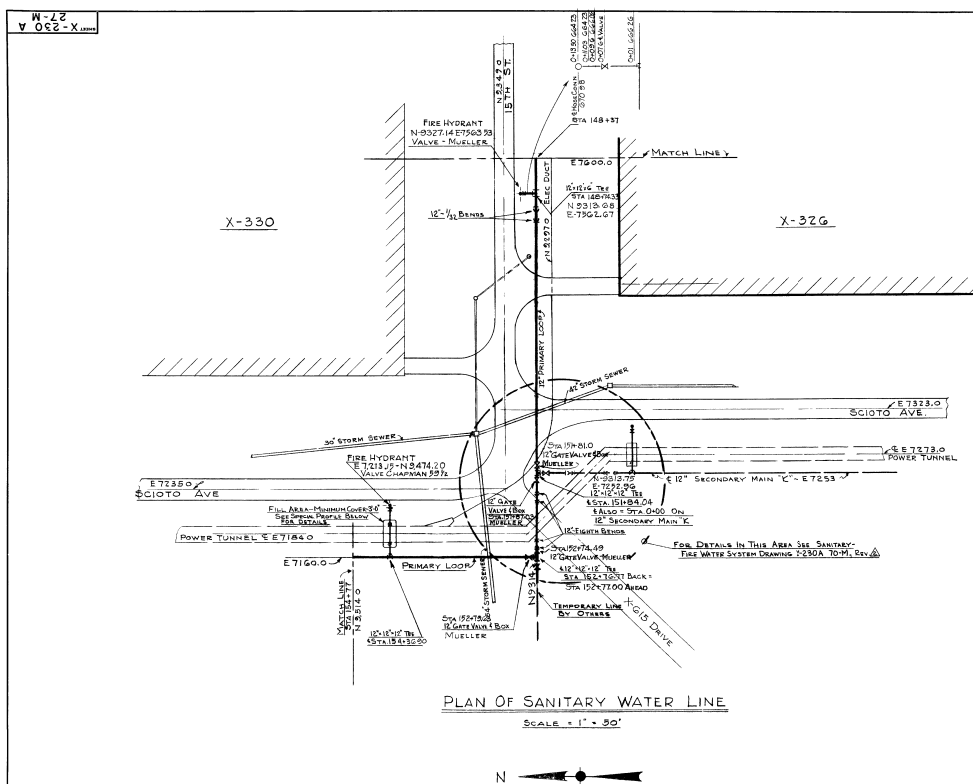


PROFILE OF SANITARY WATER LINE
SCALE 1" = 10'

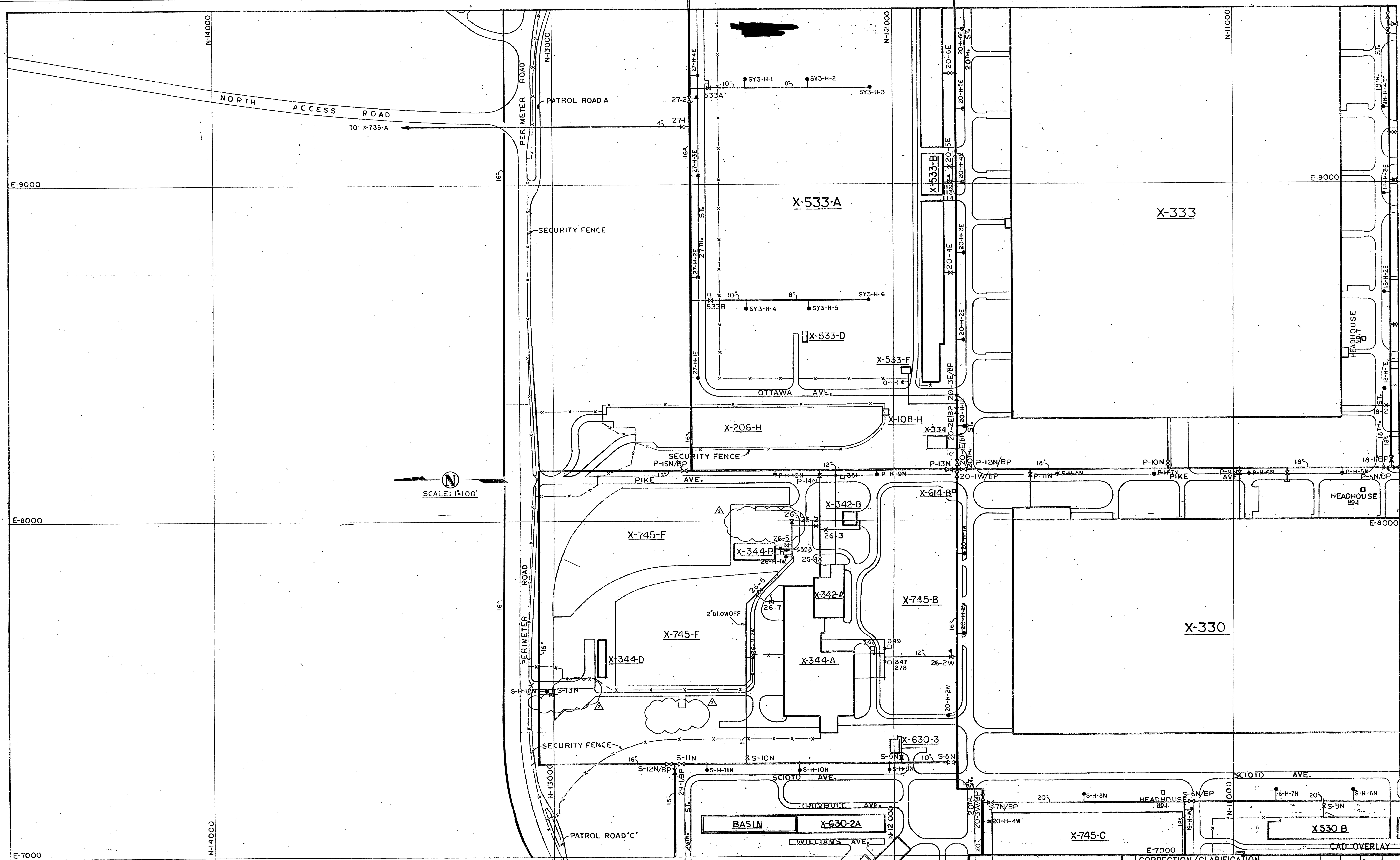
ELEVATIONS



UNITED STATES ATOMIC ENERGY COMMISSION		
CONSULTING ENGINEER A. M. KINNEY, INC. CINCINNATI 19, OHIO		
A E C CONTRACT NO. AT-40-11-1373		
SANITARY-FIRE WATER SYSTEM UNIT I STA 11+45 TO STA 17+17		
DESIGNED BY <i>M. Kinney</i>	CHECKED BY <i>M. Kinney</i>	DATE 7-1-55
APPROVED BY <i>M. Kinney</i>	DATE 7-1-55	114
UNCLASSIFIED NOT UCN Rev. 10/54 Review Date 3-3-88		



UNITED STATES ATOMIC ENERGY COMMISSION A. M. KINNEY, INC. CONSULTING ENGINEERS CINCINNATI 19, OHIO A E C CONTRACT NO. AT-140-11-1373			
SANITARY-FIRE WATER SYSTEM UNIT I STA 148+37 TO STA 154+77 EXISTING TIE			
DRAWING APPROVED DATE 1/15/55 BY S. K. Olenas	ENGINEER APPROVED DATE 1/15/55 BY M. J. Olenas	CHECKED APPROVED DATE 1/15/55 BY J. J. Olenas	114
PORTSMOUTH AREA X-230 A 27-M			



- LEGEND**
- GATE VALVE
 - POST INDICATOR VALVE (SECTION)
 - POST INDICATOR VALVE (FIRE)
 - FIRE HYDRANT

This document has been reviewed and is UNCLASSIFIED and NOT UCLM. This review does not constitute clearance for public release.
[Signature] 1/8/09
Authorized Derivative Classifier Date

9	6	3
8	5	2
7	4	1

GOODYEAR
GOODYEAR ATOMIC CORPORATION
P. O. BOX 628
PIKETON, OHIO 45661
ACTING UNDER CONTRACT EY-76-C-05-0001 WITH THE
U.S. DEPARTMENT OF ENERGY

REFERENCE:

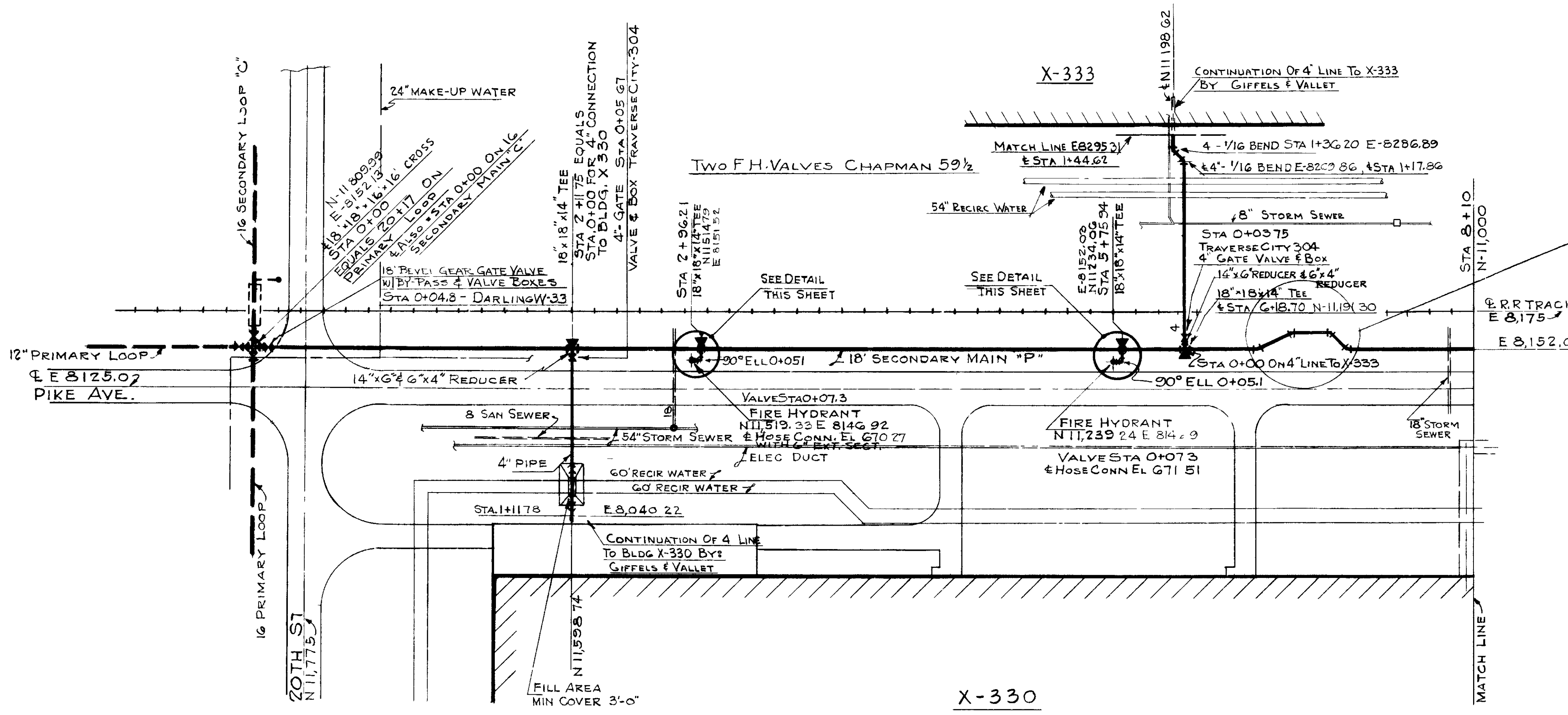
U.S. DEPARTMENT OF ENERGY		REV		DESCRIPTION		DOE	DATE	APPD	DATE
REFERENCE:		ENGR	JEBROWN	DATE	SANITARY AND FIRE WATER SYSTEM				
		DWN	JEBROWN	7 23 82					
		CHKD	NJB/REC	4 15 83					
		SUPV	S.F. [Signature]	4-18-83	PLAN	SHEET 8 OF 9			
SUBJECT MATTER PROPERTY OF GOODYEAR ATOMIC CORP. USE ONLY AS AUTHORIZED IN WRITING.		GAT			SCALE	1"=100'			
		DOE			FAC	X-SITE			
				X-230A-32C					

SUBJECT MATTER PROPERTY OF GOODYEAR ATOMIC CORP.
USE ONLY AS AUTHORIZED IN WRITING.

0 1 2

X-230A-32C

39529

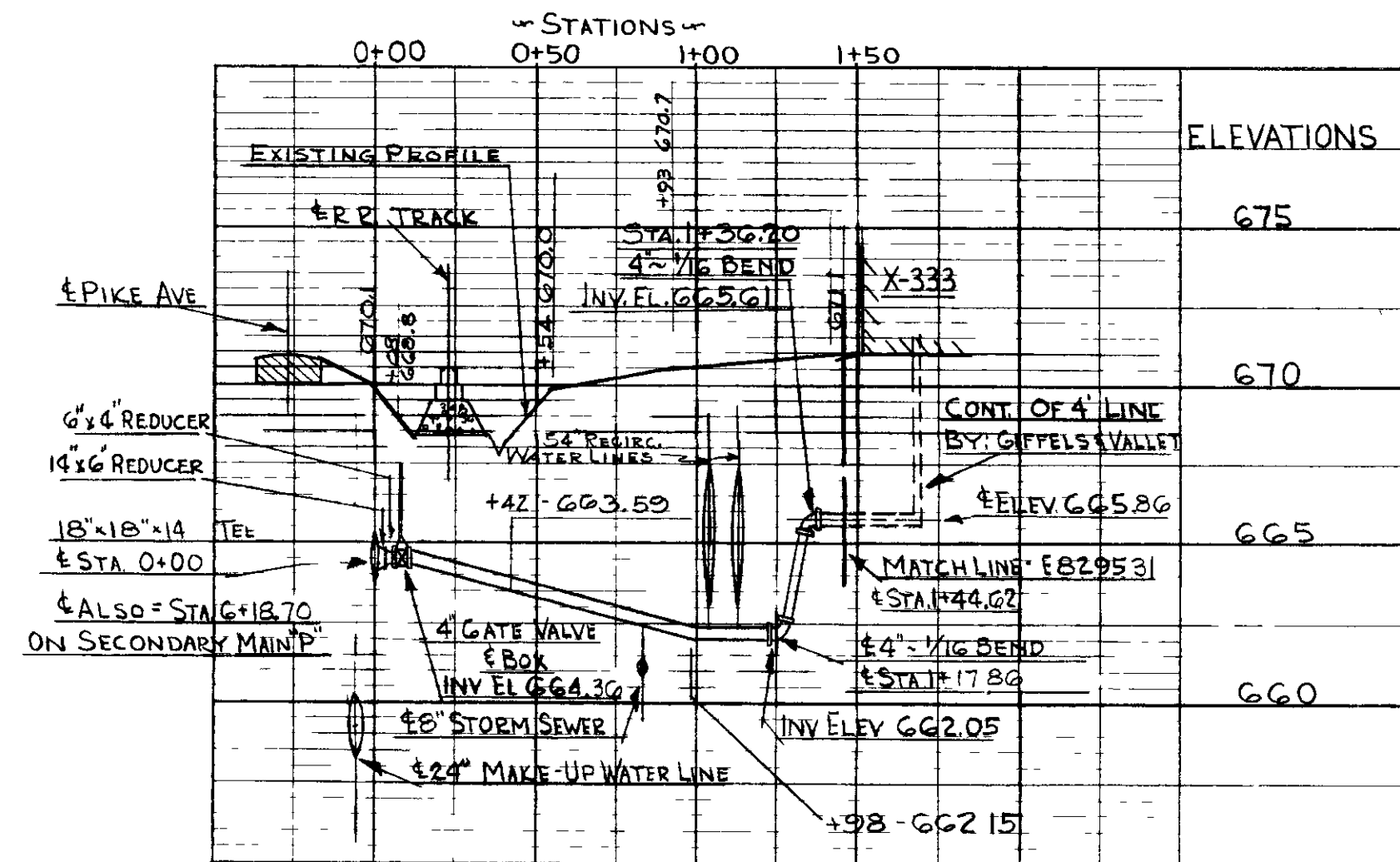


Technical drawing showing a detail of a fire hydrant connection. The drawing includes the following components and labels:

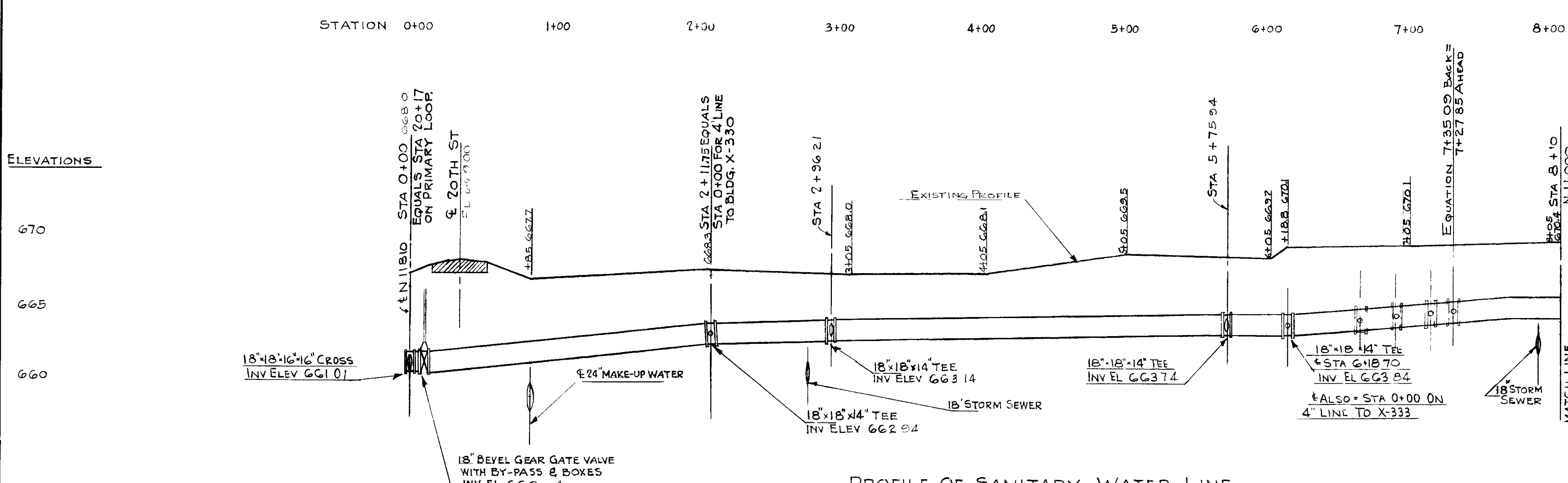
- 18 x 18 x 14 TEE**: The main vertical pipe connection.
- WATER MAIN**: The horizontal pipe on the right.
- 14 x 6 REDUCER**: The vertical pipe section below the tee.
- 6 x 1/4 BEND**: The horizontal pipe section at the bottom.
- FIRE HYDRANT**: The horizontal pipe section on the left.

DETAIL OF FIRE HYDRANT CONNECTION

NO SCALE



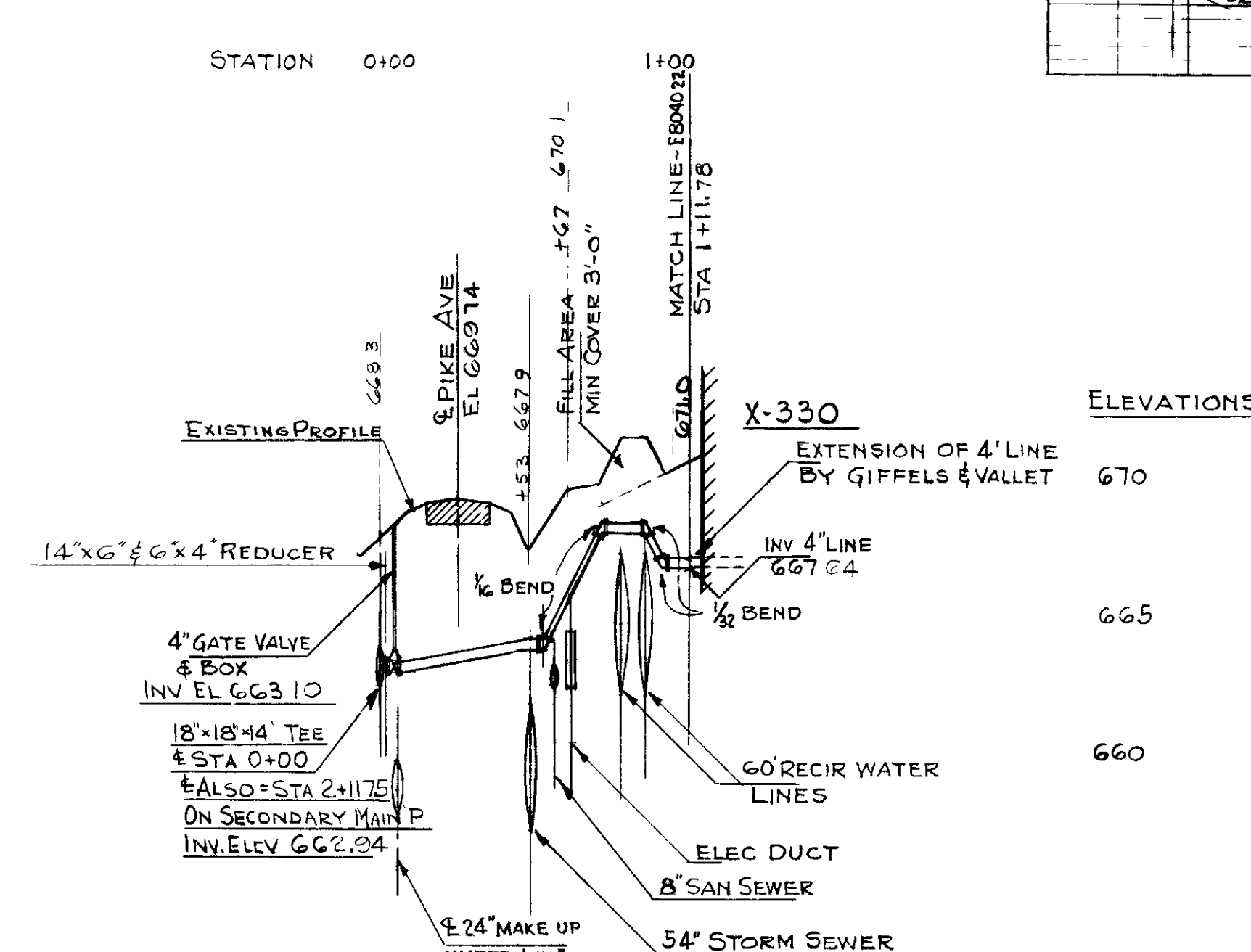
PROFILE OF 4" LINE TO X-333
AT STA 6+18.70



PROFILE OF SANITARY WATER LINE

HORIZ SCALE = 1" = 50'

VERT SCALE = 1" = 5'



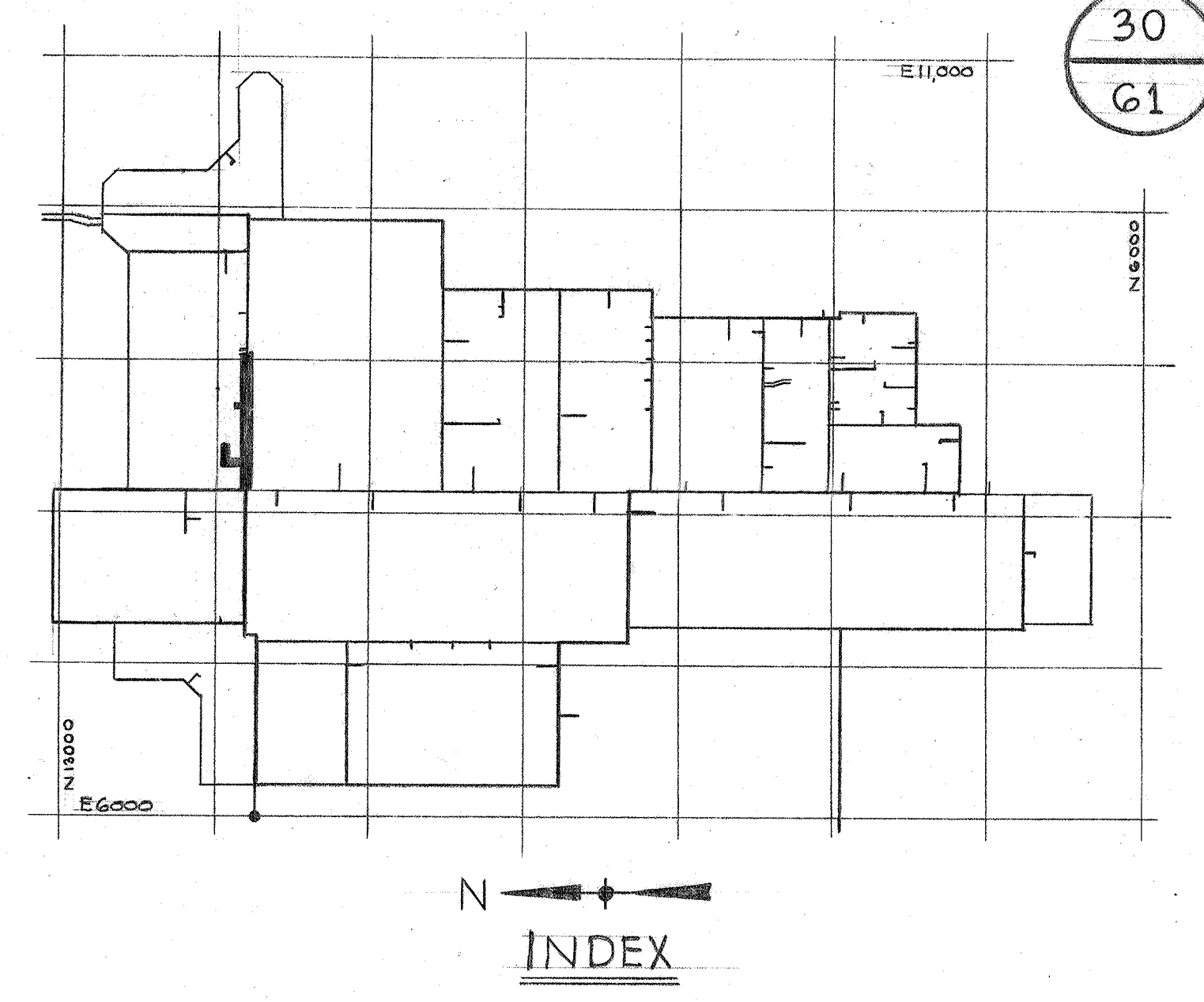
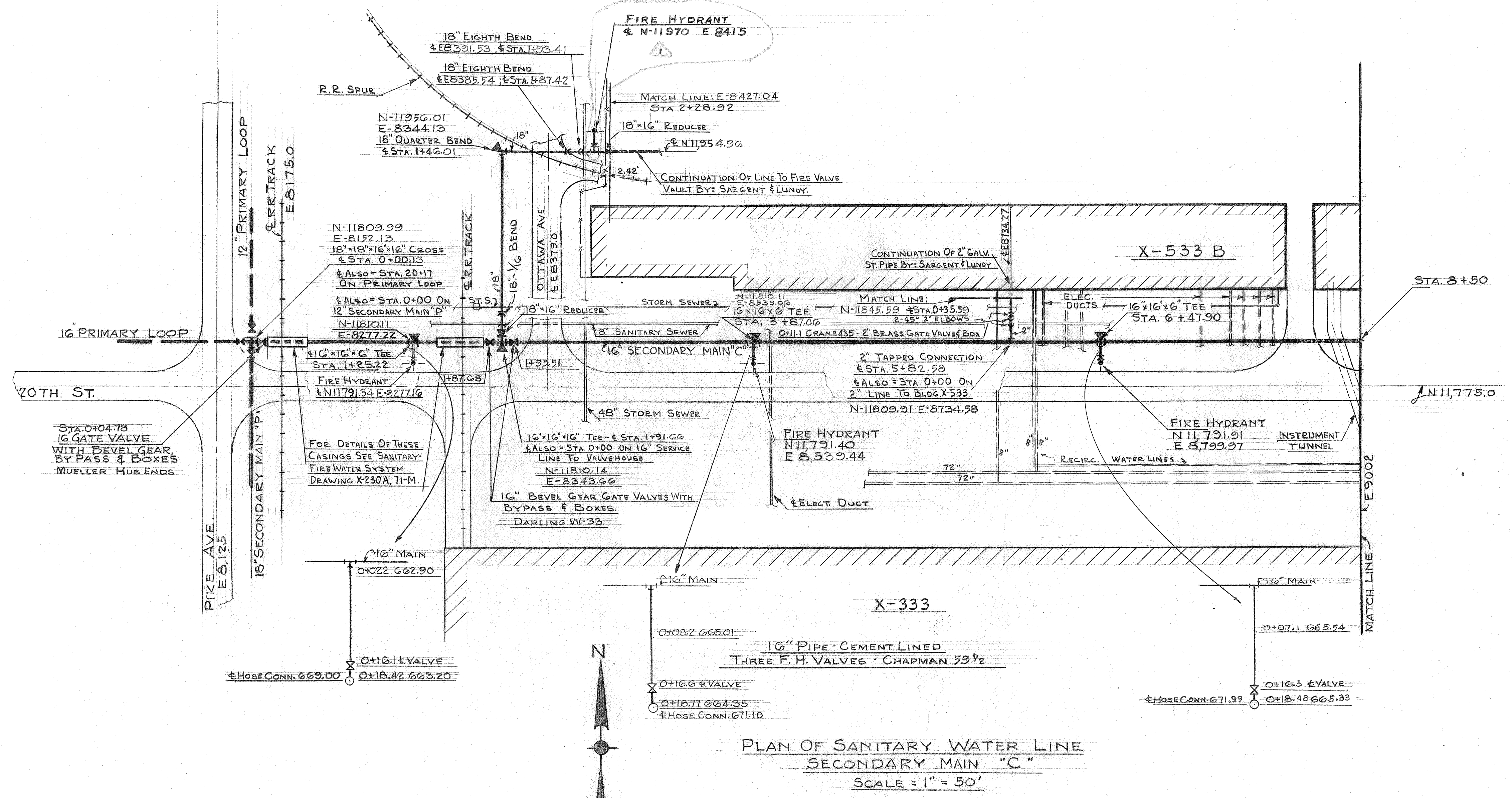
PROFILE OF 4" LINE TO BLDG, X-330
(PROFILE AT N 11,528.75)
(STA 2+11.75)

[illegible]

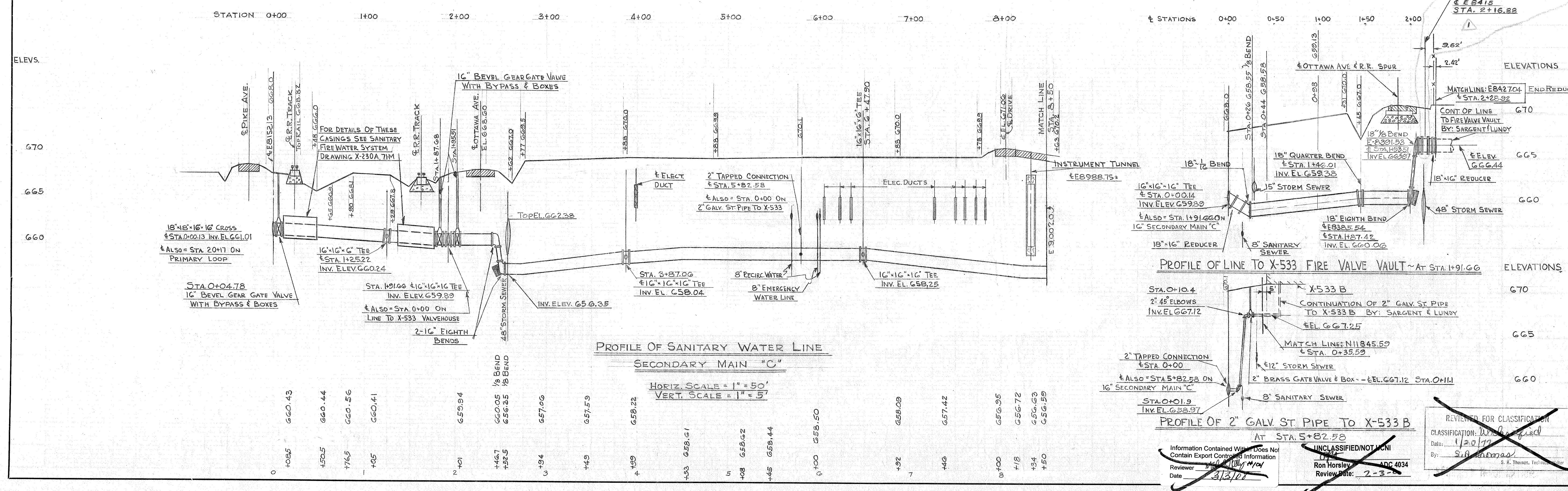
(PROFILE AT N 11,598.75)
(STA 2+11.75)

64	663.45	1/16 BEND
62	663.64	1/16 BEND
65	664.13	1/16 BEND
69	667.93	1/16 BEND
66	668.09	1/16 BEND
61	667.32	1/16 BEND

REVIEW FOR CLASSIFICATION CLASSIFICATION <i>Unclassified</i> Date <i>11/9/74</i> By <i>S.A. Shorai</i> & A. Thomas, Technical Officer			
<div style="display: flex; justify-content: space-between; align-items: center; padding: 5px;"> <div> AS BUILT AS REC'D FROM A E WAS REV. <i>1</i> </div> <div> BY <i>1</i> A E & DEPT <i>1</i> A E </div> </div>			
UNITED STATES ATOMIC ENERGY COMMISSION			
A. M. KINNEY, INC. CONSULTING ENGINEERS CINCINNATI 19, OHIO			
A E C CONTRACT NO. AT-(40-1)-1793			
DRAWING TITLE SANITARY-FIRE WATER SYSTEM UNIT II SECONDARY MAIN "P" STA 0+00 TO STA 8+10			
DRAWING APPROVED DATE <i>W. C. Kinney</i> <i>11/11/73</i>	DRAWING APPROVED DATE M BENDER G-20-53 <small>CHASCO & CHASCO CONSULTING CO.</small>	DRAWING APPROVED DATE LM BUHR 7-3 53 <small>E. E. C. ENGINEER</small>	
ARCHITECT ENGINEER	DATE <i>9/9/74</i> CHECKED <i>W. C. Kinney</i> <i>OK Sam</i>	DATE <i>5-13-73</i> 5-17-73	
IN CHARGE W. KLEPPER	DATE <i>5-24-73</i> CHECK	DATE <i>5-17-73</i>	
PROJECT X SITE PORTSMOUTH AREA	BUILDING A-230A	SHEET 62-M	



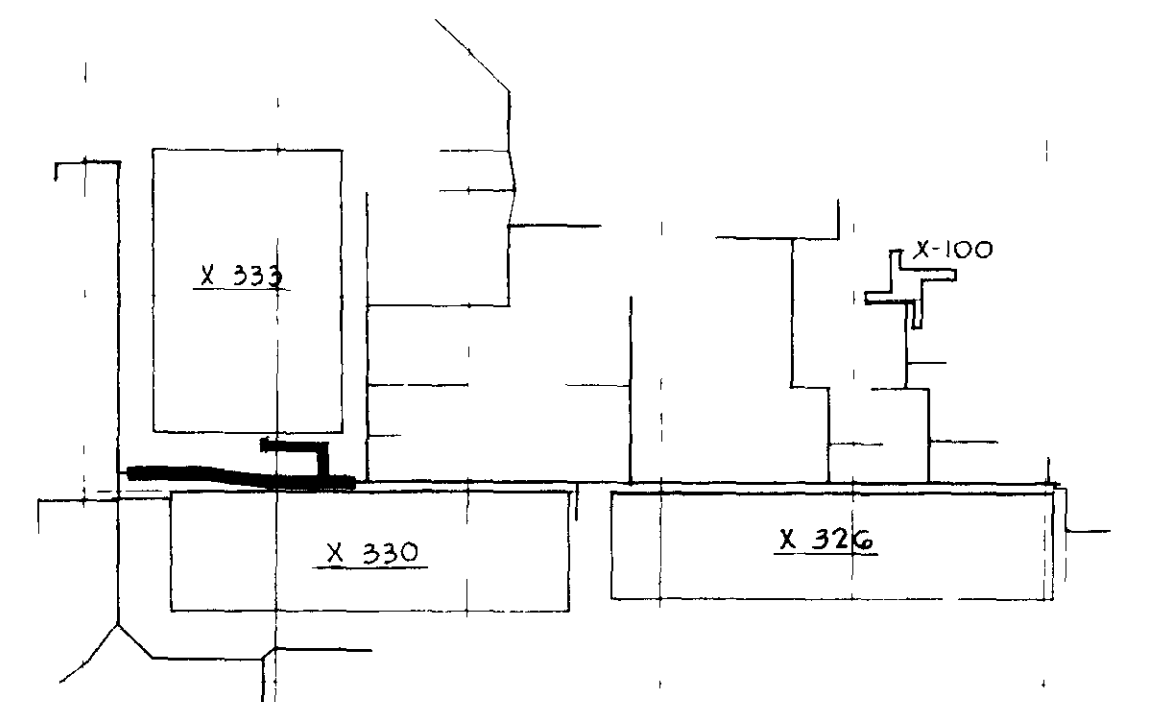
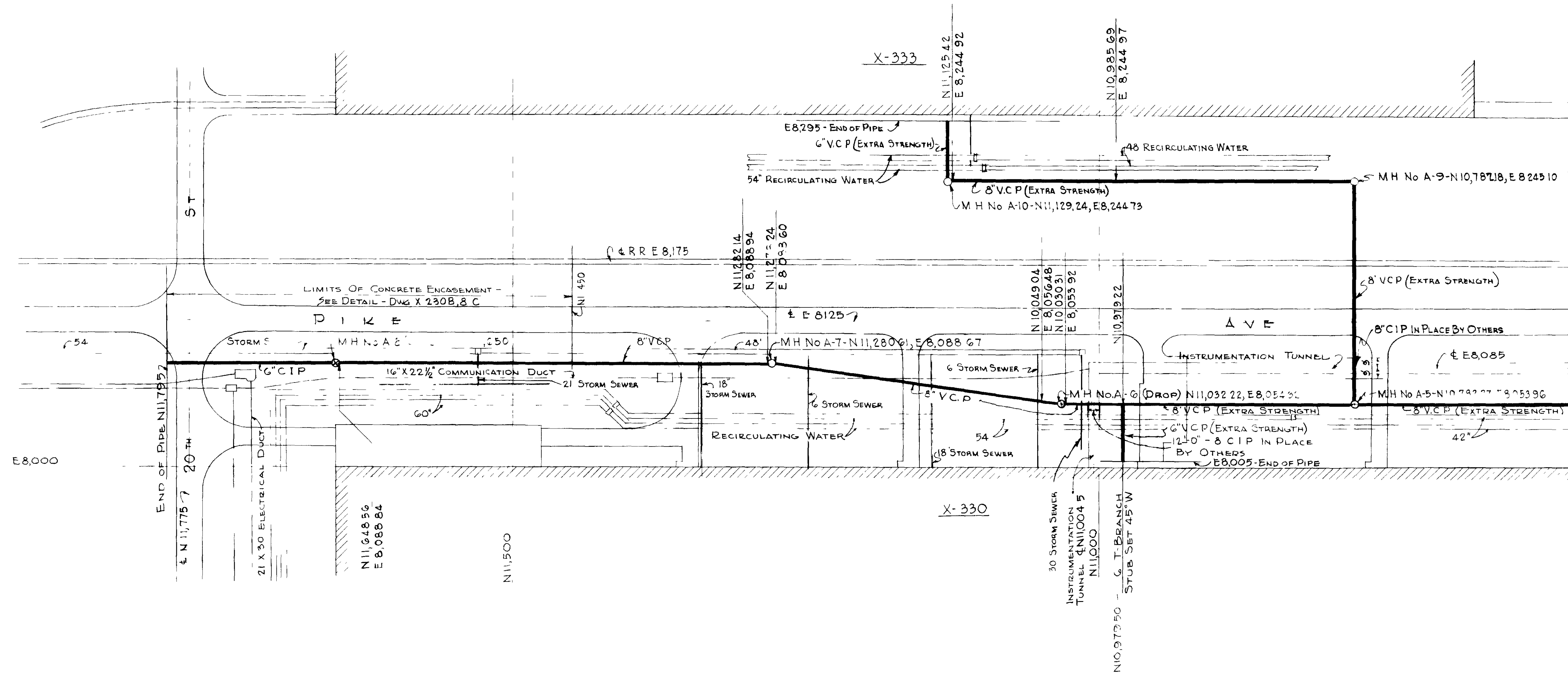
PLAN OF SANITARY WATER LINE
SECONDARY MAIN "C"
SCALE: 1" = 50'



REVIEWED FOR CLASSIFICATION CLASSIFICATION: UNCLASSIFIED DATE: 1/20/17 BY: S. J. [Signature]		114
PROJECT: X SITE PORTSMOUTH AREA		
BUILDING: X-230A		
SHEET: 38-M		

DRAWING APPROVED DATE: 6-28-53 ARCHITECT/ENGINEER: F. S. GOEPPER IN CHARGE: W. KLEPPER		DRAWING APPROVED DATE: 7-3-53 L. M. BURR DATE: 5-27-53	
DRAWING TITLE: SANITARY-FIRE WATER SYSTEM UNIT II SECONDARY MAIN "C" STA. 0+00 TO STA. 8+50		DRAWING APPROVED DATE: 7-3-53 L. M. BURR DATE: 5-27-53	

UNITED STATES ATOMIC ENERGY COMMISSION A. M. KINNEY, INC. CONSULTING ENGINEERS CINCINNATI 19, OHIO A. E. C. CONTRACT No. AT-(40-1)-1373		DRAWING TITLE: SANITARY-FIRE WATER SYSTEM UNIT II SECONDARY MAIN "C" STA. 0+00 TO STA. 8+50	
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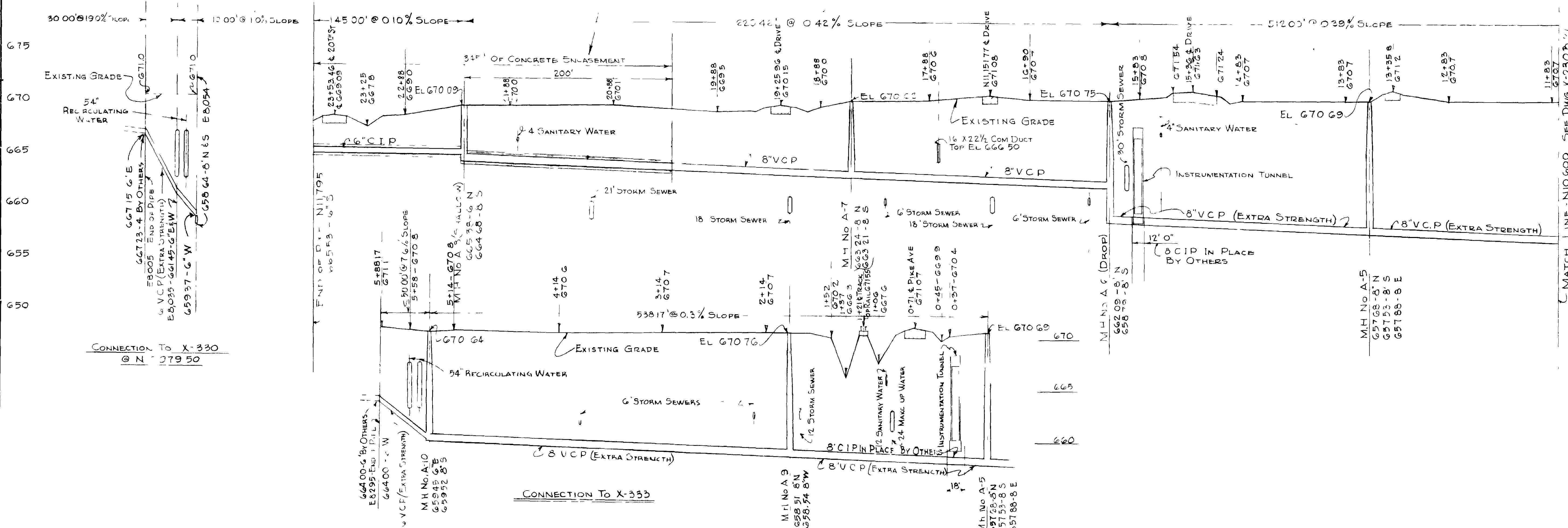


INDEX

ENCASEMENT PROVIDED PER INSTRUCTIONS FROM
PETER KIEWIT SONS CO WHO INDICATED THAT PIPE
WITHIN LIMITS SHOWN TO BE ENCASED WOULD
BE SUBJECTED TO LIVE LOADS APPROXIMATELY
EQUivalent TO BUT NOT GREATER THAN AN
"H 30" LOADING

PLAN
SCALE 1" = 50'

- MAIN "A" -



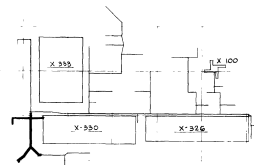
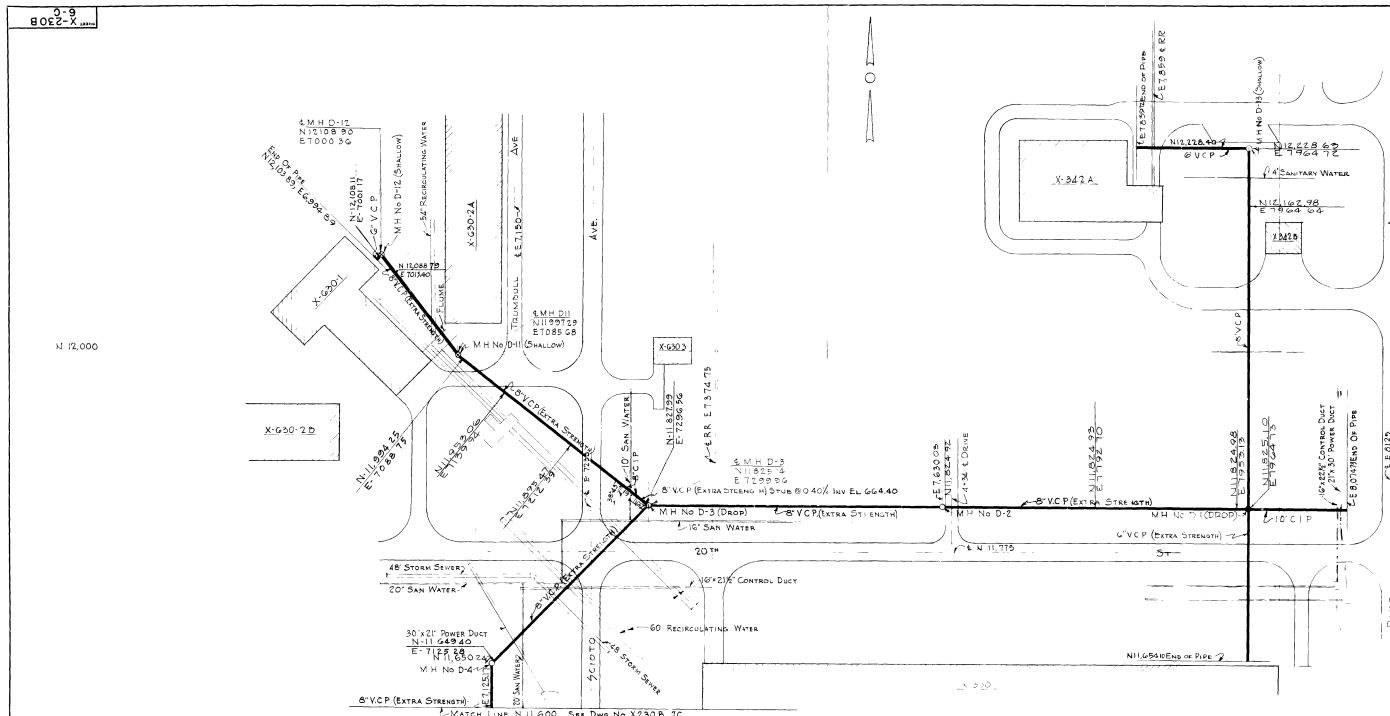
UNCLASSIFIED / NOT UCN

REVIEWED FOR CLASSIFICATION
CLASSIFICATION 1.0 (unclassified)
Date 5/13/94
By S.H. Shorrock
S.A. Thomas Tech. Staff Writer

AS BUILT AS RECD FROM A E		DATE 7/24	
REV NO	DATE	BY	DATE
UNITED STATES ATOMIC ENERGY COMMISSION			
A. M. KINNEY, INC.			
CONSULTING ENGINEERS CINCINNATI 19, OHIO A E C CONTRACT No AT-160-11-1973			
DRAWING TITLE SANITARY SEWERS - UNIT I MAIN "A", SHEET 2 OF 2			
DRAWING APPROVED DATE	DRAWING APPROVED DATE	DRAWING APPROVED DATE	
M. BENDER	M. BENDER	L.M. BUIER	
ARCHITECT ENGINEER	CIVIL & SANITARY ENGINEER	A. E. C. ENGINEER	
DATE 6-21-59	DATE 6-21-59	DATE 6-21-59	
IN CHARGE	DATE 6-21-59	DATE 6-21-59	
J. C. McCRAW	DATE 6-21-59	DATE 6-21-59	
PROJECT	BUILDING	SHEET	
X SITE	X-230 B	3 - C	
PORTSMOUTH AREA			

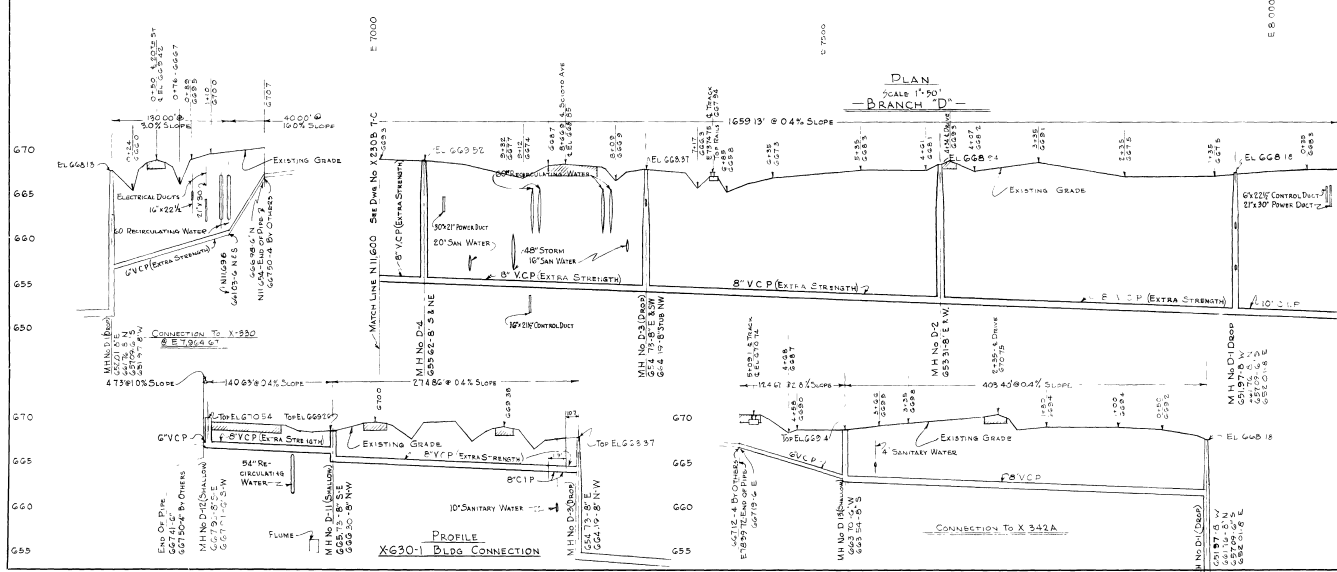
SEQUENCE NO 1405

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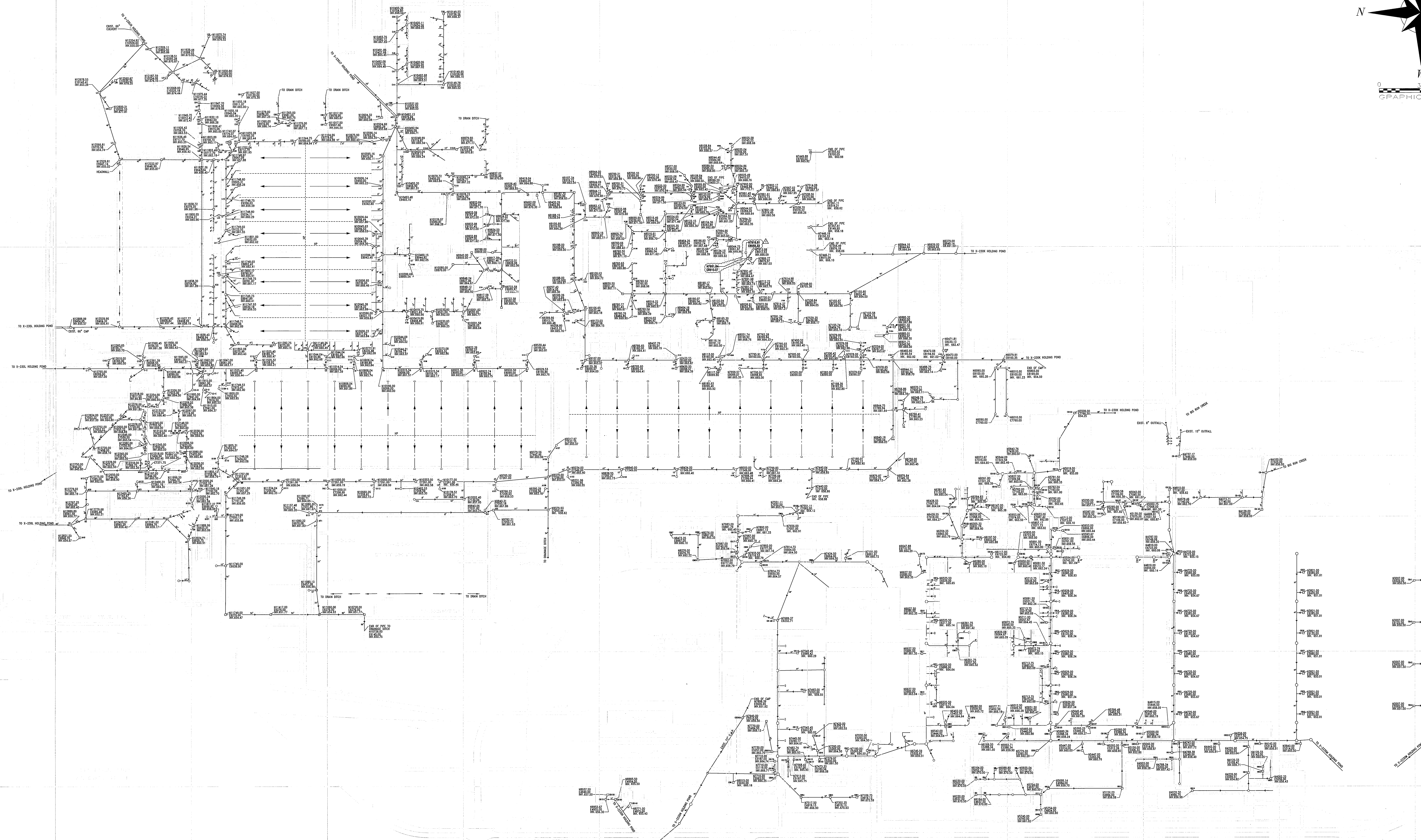


UNCLASSIFIED / NOT UCLN

REMOVED FOR CLASSIFICATION

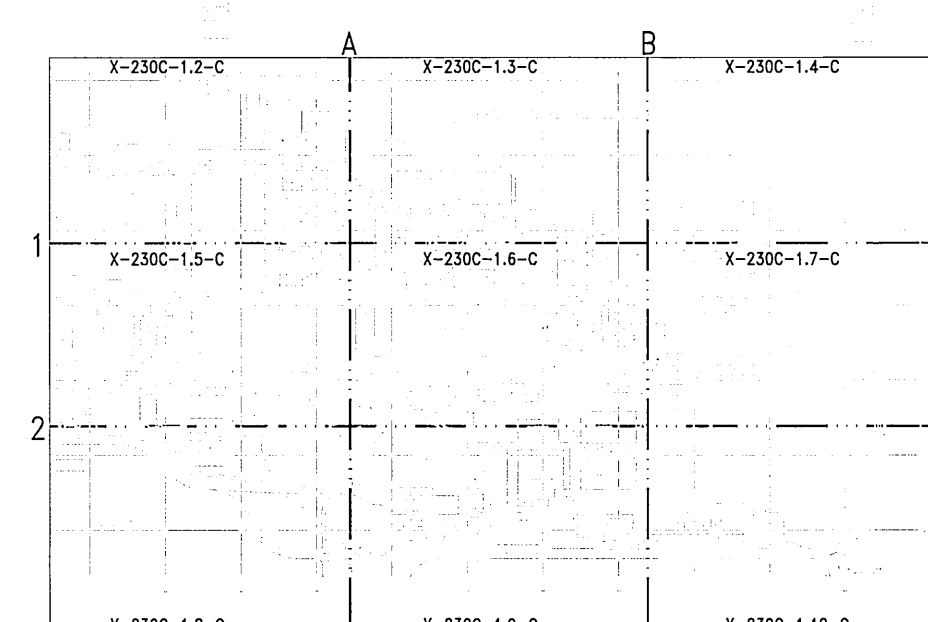
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AS BUILT - AS RECEIVED FROM A E WAS REV. BY: [Signature] DATE: 11-18-88 REASON: PERMITS		
UNITED STATES ATOMIC ENERGY COMMISSION A. M. KINNEY, INC. CONSULTING ENGINEERS A E C CONTRACT NO. AT-140-11-1373		
SANITARY SEWERS - UNIT I BRANCH 'D', SHEET 1 OF 2		
DRAWING APPROVED DATE: [Blank] PROJECT ENGINEER: J. C. McLean DRAWING TITLE: Sanitary Sewers PROJECT: X SITE PORTSMOUTH AREA	DRAWING APPROVED DATE: [Blank] PROJECT ENGINEER: R. Conroy DRAWING TITLE: Sanitary Sewers PROJECT: X SITE PORTSMOUTH AREA	DRAWING APPROVED DATE: [Blank] PROJECT ENGINEER: L. M. Dwyer DRAWING TITLE: Sanitary Sewers PROJECT: X SITE PORTSMOUTH AREA
SHEET NO. 113		



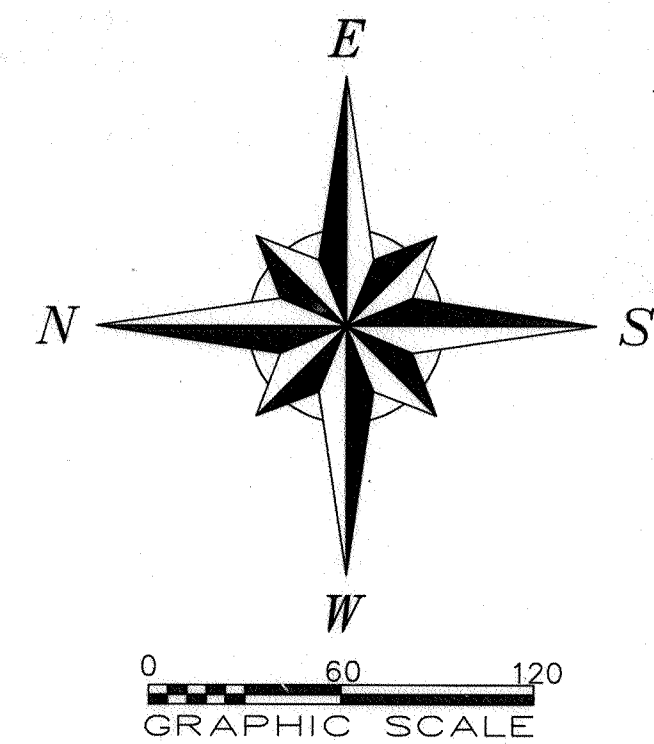
DATE 3/12/22

AUTOCAD

[illegible]

LOCATION KEY

0-2-1-2-C-X



E 11000

N 13000

N 12000

N 11000

N 10000

X-230J7

2 EACH 78"
INV.650.40

X-230J1

ATHENS AVE

X-611

X-611D
X-611C

X-230J6

66" CULVERT

PATROL ROAD

X-633-2D

X-745D

X-343

X-701F

X-701B

TO X-230J HOLDING POND

X-747G

X-744G

X-623

X-109B

X-105

X-533H

MONITORING
STATION

X-533A
SWITCHYARD

SEE DRAWING X-230C-1.21-C
FOR ENLARGED PLAN OF
X-533 AREA

X-533B

X-614P

DEFIANCE AVE

CLERMONT AVE

CLINTON AVE

BELMONT AVE

BUTLER AVE

GREEN AVE

17th ST

20th ST

22nd ST

24th ST

26th ST

27th ST

18th ST

16th ST

14th ST

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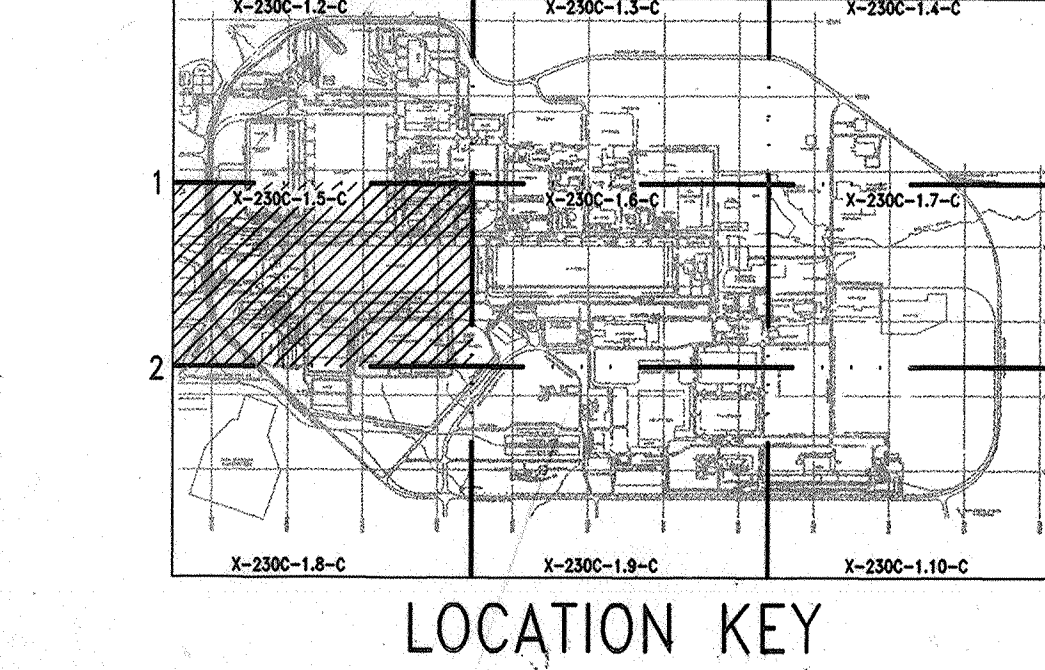
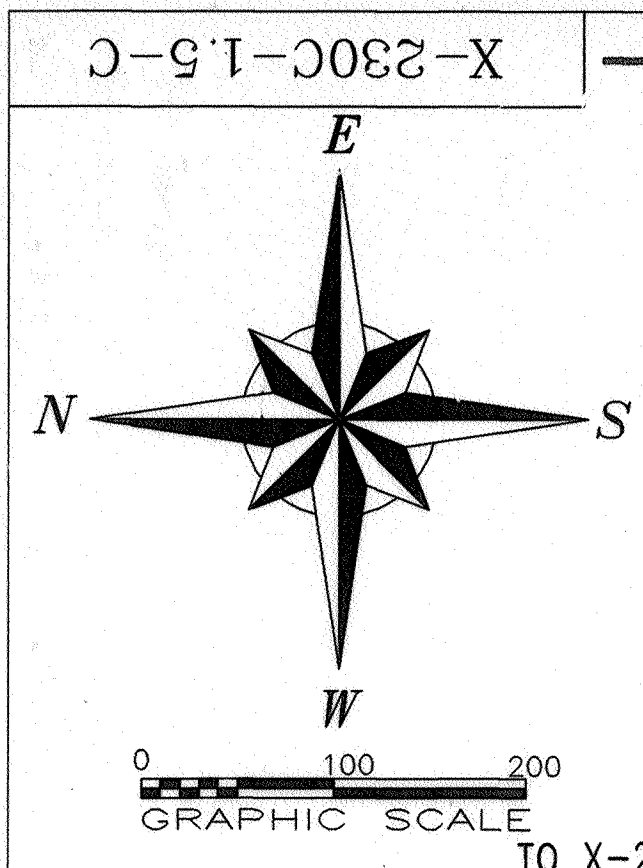
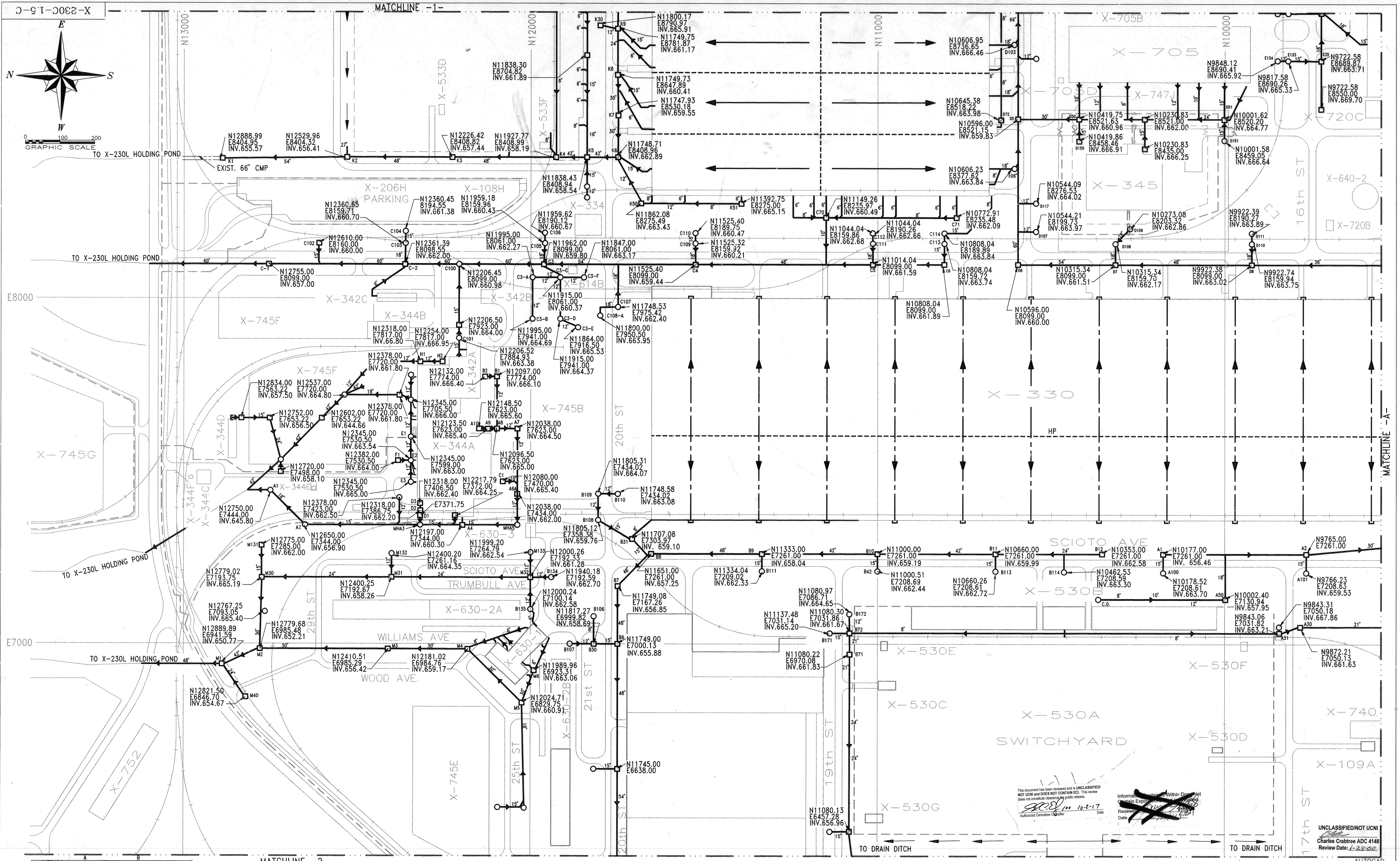
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268th ST

269th ST

270th ST

271st ST



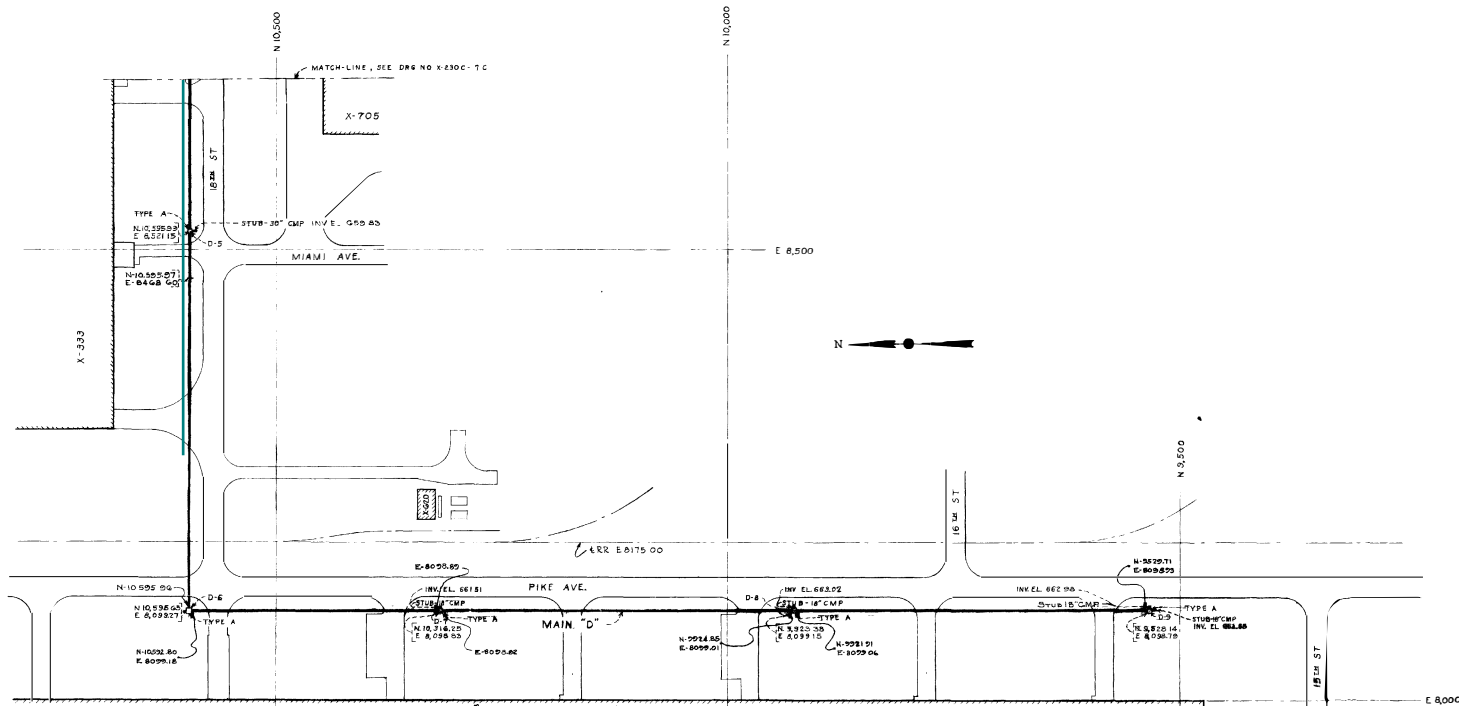
LEGEND				APPROVALS				UNITED STATES ENRICHMENT CORPORATION			
○	MANHOLE			DONALD R TOMILSON	12/20/95			LOCKHEED MARTIN UTILITY SERVICES, INC.			
□	CATCH BASIN			RANDY R McROBERTS	12/20/95			P.O. BOX 628 PIKETON, OHIO 45661			
→	DIRECTION OF FLOW			LARRY K ARTHUR	12/20/95			ACTING UNDER CONTRACT USFC-93-C-0003 WITH THE U.S. ENVIRONMENT CORPORATION			
—	LINE CAPPED OFF			JOHN M HORTEL	12/20/95			PROJECT ESO# 6048-95			
→	FLOW DIRECTION OF ROOF			DEPT MGR				SUBPROJECT			
—	HIGH POINT OF ROOF			LMUS				TITLE			
—	VALLEY LINE							PLAT STORM DRAIN SYSTEM			
—	MATCHLINE							MATCHLINE -1-, MATCHLINE -2-			
								MATCHLINE -A-			
								SCALE			
								1"=100'			
								DVG NO			
								X-230C-1.5-C			
								REV			
								0			

This document has been reviewed and is UNCLASSIFIED
NOT UCM AND DOES NOT CONTAIN ECL. This review
does not constitute clearance for public release.
Authorized Derivative Classifier
Date 10-2-17

UNCLASSIFIED/NOT UCM
Charles Crabtree ADC 4148
Review Date: 1-28-02

AUTOCAD

3833

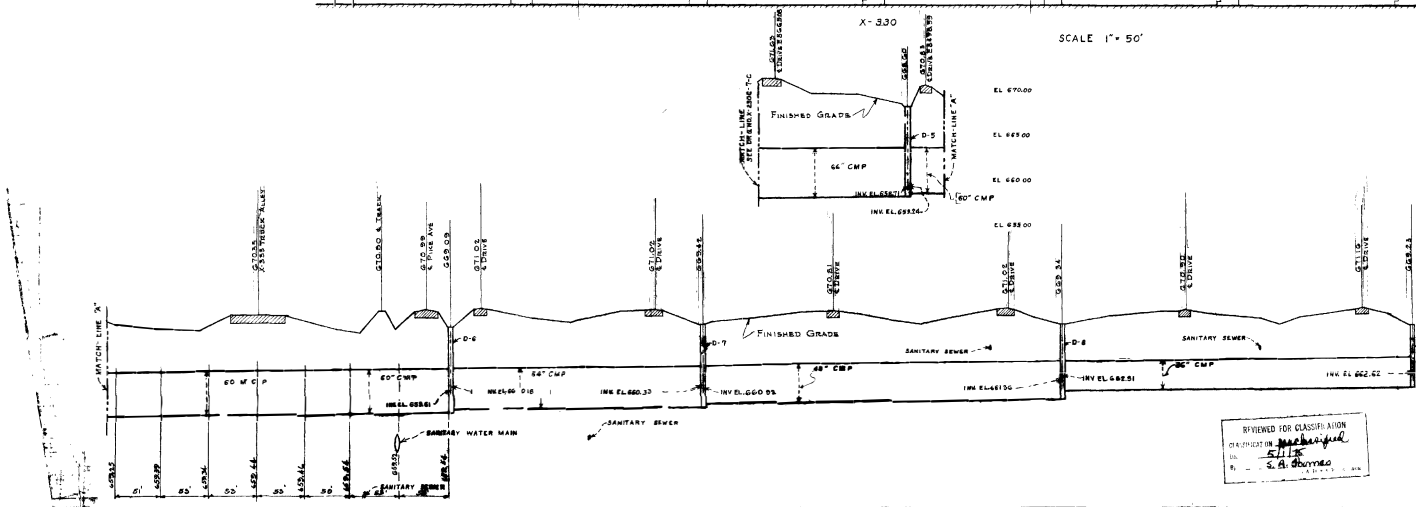


SCALE 1" = 50'

ALL NOTES ON DRG NO X-230C-2 C

UNCLASSIFIED
Charles G. Kelley, AEC
Review Date: 2-2-80

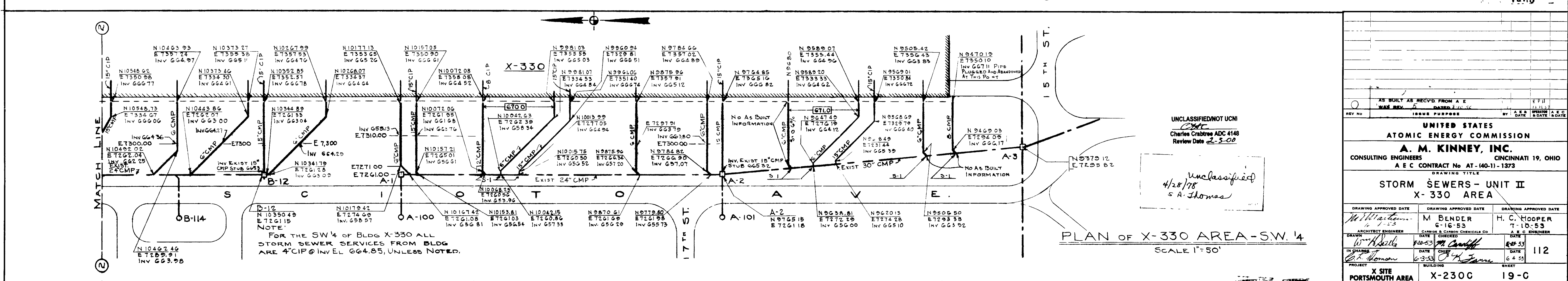
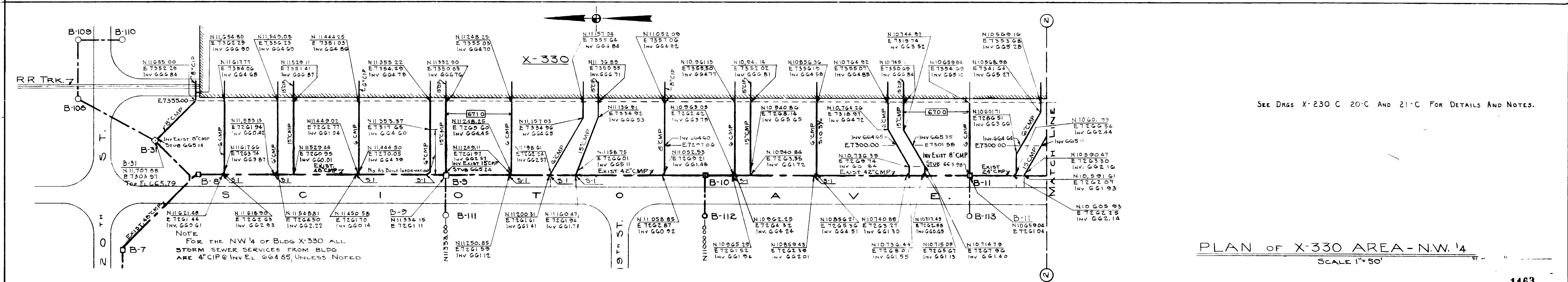
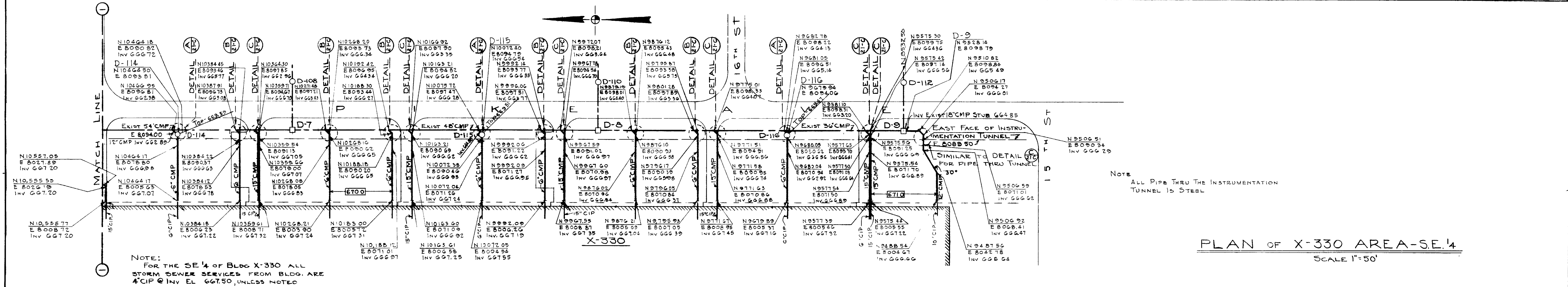
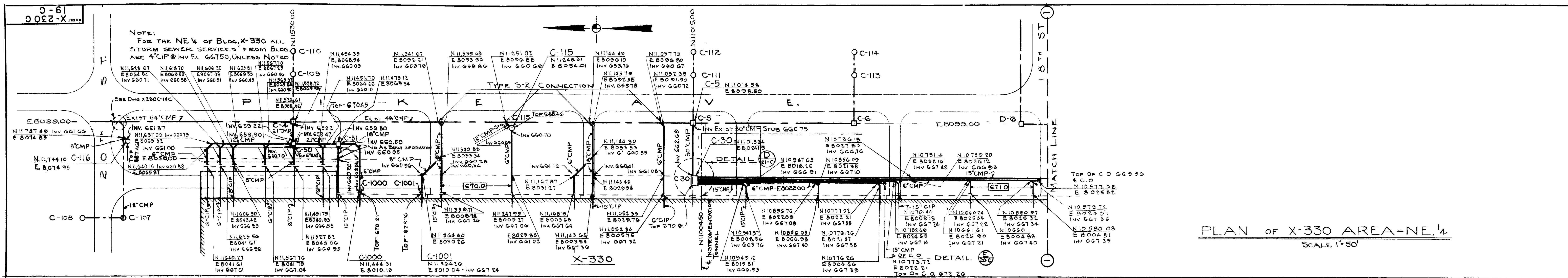
145



REVIEWED FOR CLASSIFICATION
CLASSIFIED BY: [Signature]
DATE: 5-1-80
BY: S. B. DUNN

PROJECT NO. X-230C		SHEET NO. 112	
CONSULTING ENGINEER A. M. KINNEY, INC. A. E. C. CONTRACT NO. AT-140-11-1573		DESIGNED BY H. C. MOORE	
DRAWN BY H. C. MOORE		CHECKED BY H. C. MOORE	
DATE 1-1-80		DATE 1-1-80	
X SITE PULVERIZATION AREA		X-230-C	

3945



1463

UNCLASSIFIED/NOT UCON
Charles Crabtree ADC 4148
Review Date 2-5-00

4/28/78
S.A. Thomas

UNCLASSIFIED/NOT UCON

UNITED STATES
ATOMIC ENERGY COMMISSION

A. M. KINNEY, INC.
CONSULTING ENGINEERS
CINCINNATI 19, OHIO
A E C CONTRACT No. AT-(40-1)-1373

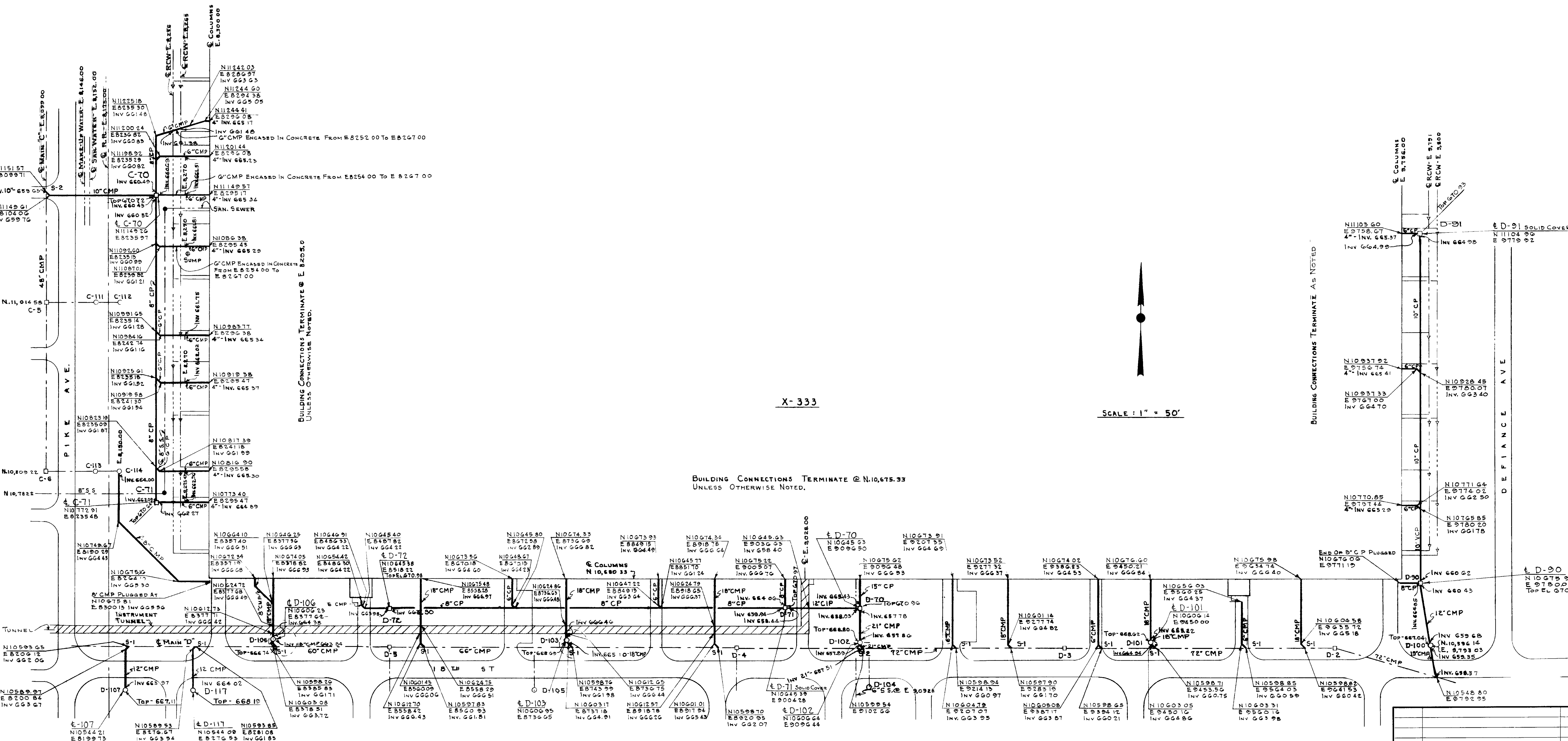
DRAWING TITLE
STORM SEWERS- UNIT II
X-330 AREA

DRAWING APPROVED DATE	DRAWING APPROVED DATE	DRAWING APPROVED DATE
M. BENDER 6-16-53	M. BENDER 6-16-53	H. C. KOOPER 7-10-53
DATE	DATE	DATE
6-16-53	6-16-53	6-16-53
DATE	DATE	DATE
6-16-53	6-16-53	6-16-53

PROJECT
X SITE
PORTSMOUTH AREA

BUILDING
X-230C

SHEET
19-C



X-333

SCALE: 1" = 50'

BUILDING CONNECTIONS TERMINATE @ N.10,675.33
UNLESS OTHERWISE NOTED.

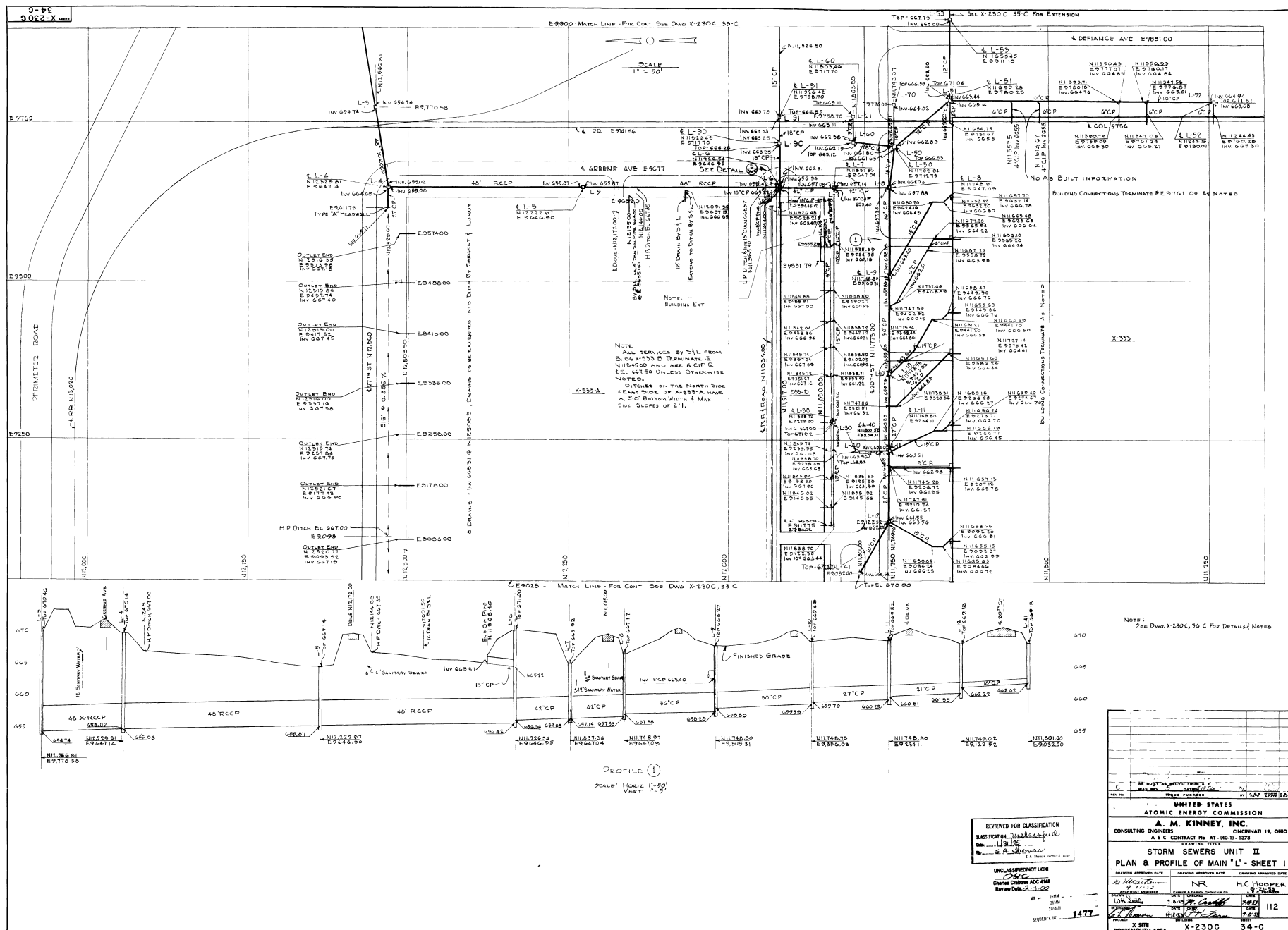
BUILDING CONNECTIONS TERMINATE AS NOTED

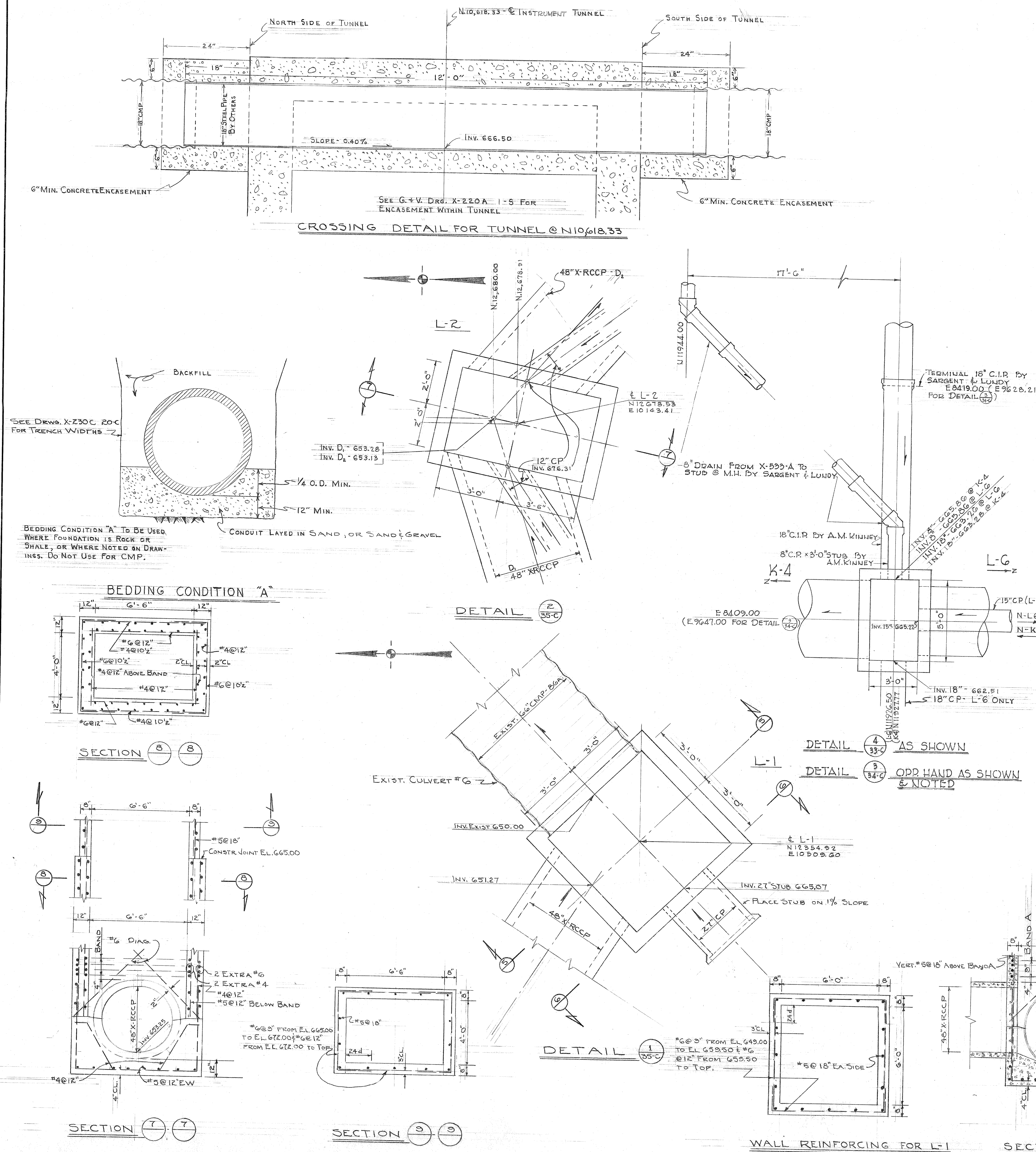
REVIEWED FOR CLASSIFICATION
CLASSIFICATION: Unclassified
Date: 5/13/74
By: S.P. Thomas

NOTES:
18" PIPE CROSSING THRU TUNNEL TO BE SEAMLESS STEEL,
SCHEDULE 20 ASTM A53-52T, PLAIN END, ENAMEL LINING.
SEE DRAWING X-230C-36C FOR DETAILS OF JOINTS @
TUNNEL CROSSINGS, AND PIPE SPECIFICATIONS.
SEE G&V DRWG. X-220-A-150G FOR DETAILS OF ENCASE-
MENT THRU TUNNEL.
SEE DRWG. X-230-C-36C FOR DETAILS & NOTES.

UNCLASSIFIED NOT UCM
Charles Ombre ADC 4148
Review Date: 2-3-02
MF - 16MM
33MM
105MM
SEQUENCE NO. 1475

REV NO.		DATE		BY	
1		5/13/74		S.P. Thomas	
<p>UNITED STATES ATOMIC ENERGY COMMISSION</p> <p>A. M. KINNEY, INC. CONSULTING ENGINEERS A.E.C. CONTRACT NO. AT-(60-1)-1373</p> <p>DRAWING TITLE STORM SEWERS UNIT II SOUTH HALF BLDG. X-333 BUILDING CONNECTIONS</p> <p>DRAWING APPROVED DATE: 9-21-53 DRAWN BY: H.C. HOOPER CHECKED BY: [Signature] DATE: 9-15-53 DATE: 9-21-53 SHEET: 112</p> <p>PROJECT: X SITE PORTSMOUTH AREA X-230C 32-0</p>					





STRUCTURE - SCHEDULE				
STRUCTURE NUMBER	TYPE	DIMENSION "A"	DIMENSION "B"	REMARKS
A-30	A	3'-0"	4'-0"	DETAIL (3/4)
A-31	A	3-0	4-0	DETAIL (3/4)
A-50	A	4-0	3-0	DETAIL (3/4)
A-130	B			
B-70	A	4-0	3-0	DETAIL (3/4)
B-71	A	4-0	3-0	
B-72	A	4-0	3-0	
B-170	B			
B-171	B			
B-172	B			
C-70	A	4-0	3-0	
C-71	A	3-0	3-0	
D-70	A	4-0	3-0	
D-71	A	4-0	3-0	
D-72	A	3-0	3-0	
D-80	A	4-0	3-0	
D-91	A	3-0	3-0	
D-100	B			
D-101	B			
D-102	B			
D-103	B			
D-106	B			
D-107	B			
D-117	B			
K-2	A	6-0	4-0	
K-3	A	5-0	3-0	
K-4	A	5-0	3-0	DETAIL (3/4)
K-5	A	5-0	3-0	
K-6	A	5-0	4-0	
K-7	A	4-0	3-0	
K-8	A	4-0	3-0	
K-9	A	4-0	3-0	
K-10	A	4-0	3-0	
K-40	A	3-0	3-0	
K-50	A	4-0	3-0	
K-51	A	3-0	3-0	
K-30	A	3-0	4-0	
L-1	A	6-0	6-0	DETAIL (3/4)
L-2	A	6-6"	4-0	DETAIL (3/4)
L-3	A	5-0	4-0	
L-4	A	5-0	5-0	
L-5	A	5-0	3-0	
L-6	A	5-0	3-0	DETAIL (3/4)
L-7	A	5-0	3-0	
L-8	A	5-0	4-0	
L-9	A	4-0	3-0	
L-10	A	4-0	3-0	
L-11	A	4-0	3-0	
L-12	A	4-0	3-0	
L-40	A	3-0	3-0	
L-41	A	3-0	3-0	
L-50	A	4-0	3-0	
L-51	A	4-0	3-0	
L-52	A	3-0	3-0	
L-60	A	3-0	3-0	
L-61	A	3-0	3-0	
L-70	A	3-0	3-0	
L-80	A	2-0	4-0	
L-53	A	3-0	3-0	
L-60	A	3-0	3-0	
L-82	A	3-0	3-0	
L-90	A	3-0	3-0	
L-91	A	3-0	3-0	
L-92	A	4-0	3-0	
L-93	A	3-0	3-0	
L-94	A	3-0	3-0	
L-20	A	4-0	4-0	
L-21	A	4-0	4-0	
L-22	A	4-0	3-0	DETAIL, DRWG. XE30C 35C*
L-23	A	4-0	3-0	" " " "
L-24	A	4-0	3-0	" " " "
L-25	A	3-0	3-0	" " " "
L-26	A	3-0	3-0	" " " "
L-27	A	3-0	3-0	
K-100	B			
K-101	B			
L-54	A	3-0	3-0	
L-95	A	3-0	3-0	

LEGEND	
SYMBOL	DESCRIPTION
6" CMP	PAVED + COATED 16 GA. HELICALLY CORRUGATED METAL PIPE, SIMILAR TO ARMCO HEL-COR OR TONCAN COR-WEL.
8" CMP, 10" CMP, 12" CMP, 15" CMP, 18" CMP, 24" CMP	PAVED + COATED 16 GA. STANDARD RIVETED CORRUGATED METAL PIPE.
30" CMP, 36" CMP, 42" CMP, 48" CMP	PAVED + COATED 14 GA. STANDARD RIVETED CORRUGATED METAL PIPE.
6" CP, 8" CP, 10" CP, 12" CP, 15" CP, 18" CP, 21" CP, 24" CP	PLAIN CONCRETE SEWER PIPE OR STANDARD STRENGTH VITRIFIED CLAY PIPE.
27" CP, 30" CP, 36" CP.	REINFORCED CONCRETE SEWER PIPE OR STANDARD STRENGTH VITRIFIED CLAY PIPE.
42" CP, 48" CP, 54" CP	REINFORCED CONCRETE SEWER PIPE.
VCP	STANDARD STRENGTH VITRIFIED CLAY PIPE.
X-VCP	EXTRA STRENGTH VITRIFIED CLAY PIPE.
RCCP	REINFORCED CONCRETE CULVERT PIPE, STANDARD STRENGTH.
X-RCCP	REINFORCED CONCRETE CULVERT PIPE, EXTRA STRENGTH.
CIP	CAST IRON PIPE.
—	INDICATES STORM SEWER TO BE CONSTRUCTED UNDER UNIT II.
—	INDICATES EXISTING STORM SEWER.
□	INDICATES TYPE "A" INLET-MANHOLE.
○	INDICATES TYPE "B" INLET.

NOTES

ALL BRANCH CONNECTIONS TO MAINS AND LATERALS TO BE MADE WITH "Y"-BRANCH, EXCEPT AS FOLLOWS. CONCRETE OR CLAY PIPE MAY BE TAPPED, WHERE NECESSARY, AS APPROVED BY CONTRACTOR. CMP MAY BE TAPPED AS DETAILED ON DRG. X-230C 21-C.

STANDARD AND SPECIAL FITTINGS ARE NOT SHOWN ON THE DRAWINGS, BUT SHOULD BE USED WHERE NECESSARY TO MEET THE GRA. ALIGNMENT, AND JOINT REQUIREMENTS OF DRG. X-230C 30-C. THRU 36-C.

REFER TO DRGS. X-230C 20-C + 21-C FOR GENERAL DETAILS AND NOTES.

REINFORCING STEEL FOR BASE & WALLS OF STRUCTURES LI & LR ON THIS DRWG.

FOR GENERAL NOTES ON REINFORCING STEEL & REINFORCING SCHEDULE FOR ALL STRUCTURES EXCEPT LI & LR, SEE DRWG. X-230C 20-C.

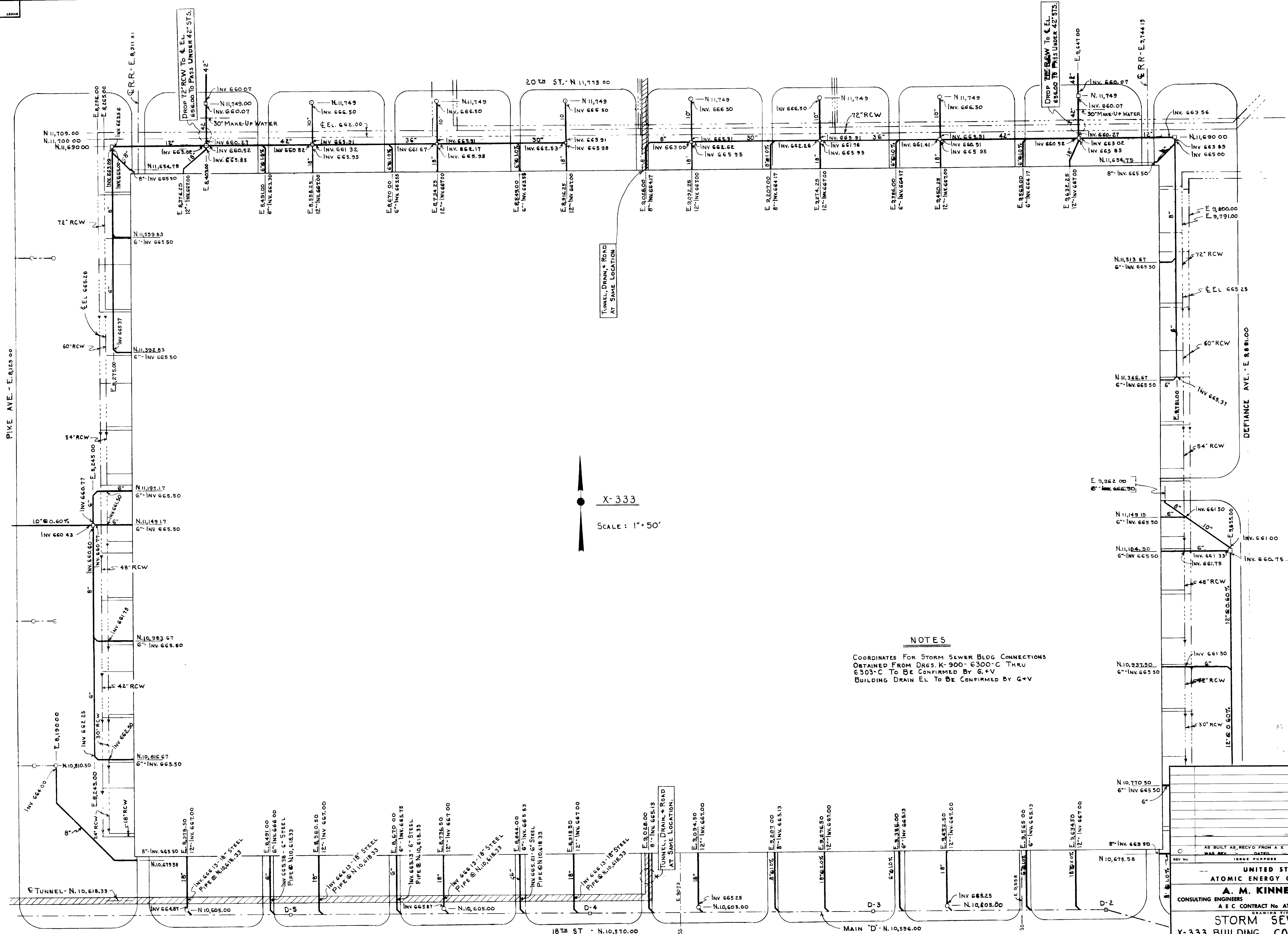
* INDICATES FRAME & SOLID COVER SIMILAR TO NEENAH R-1818

± INDICATES FRAME & GRATE SIMILAR TO NEENAH R-4348

THE STRUCTURE SCHEDULE ON THIS DRWG APPLIES ONLY TO DRAWINGS X-230-C 30-C THRU 36-C.

SEE APPROPRIATE A.M. KINNEY, INC. DRAWINGS FOR AS BUILT INFORMATION FOR OTHER UTILITIES.

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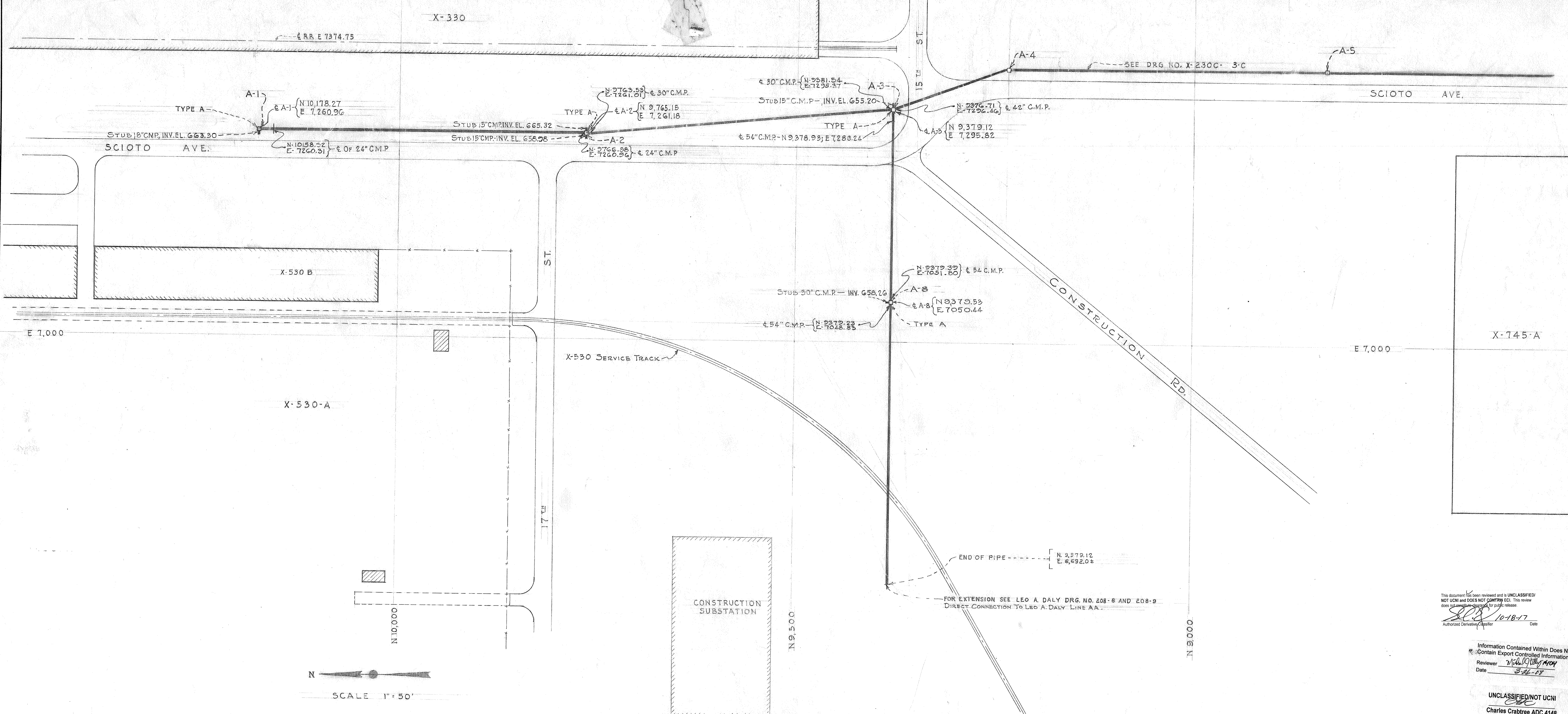
X-333
SCALE: 1" = 50'

NOTES
COORDINATES FOR STORM SEWER BLDG CONNECTIONS
OBTAINED FROM DGS. K-900-6300-C THRU
6303-C TO BE CONFIRMED BY G+V
BUILDING DRAIN EL. TO BE CONFIRMED BY G+V

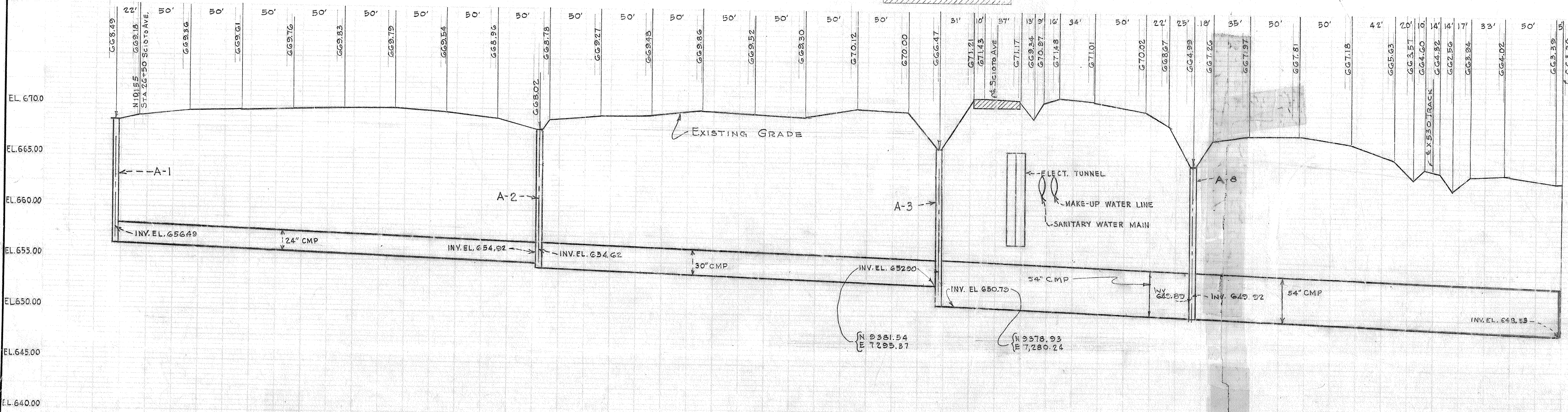
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CLASSIFICATION: Unclassified
Date: 4/19/74
By: S.A. Shover
F.A. Thomas Technical Writer

UNCLASSIFIED / NOT NCN
Charles Crabtree ADC 4148
Review Date: 2-3-00

AS BUILT AS REV'D FROM A E		
REV. NO.	DATE	ISSUE PURPOSE
UNITED STATES ATOMIC ENERGY COMMISSION		
A. M. KINNEY, INC.		
CONSULTING ENGINEERS CINCINNATI 19, OHIO		
A E C CONTRACT No. AT-(40-1)-1373		
DRAWING TITLE		
STORM SEWERS		
X-333 BUILDING CONNECTIONS		
DRAWING APPROVED DATE	DRAWING APPROVED DATE	DRAWING APPROVED DATE
ARCHITECT ENGINEER	CHECKER & CARBON CHEMICALS CO.	A. E. C. ENGINEER
DRAWN	CHECKED	DATE
IN CHARGE	DATE	CHIEF
PROJECT	BUILDING	SHEET
X SITE	X-230 C	2004-C



N
SCALE 1" = 50'



ABBREVIATIONS
 □ - INDICATES INLET-MANHOLE
 CMP-CORRUGATED METAL PIPE
 RCP-REINFORCED CONCRETE PIPE, STANDARD
 X-RCP-REINFORCED CONCRETE PIPE-EXTRA STRENGTH
 VCP-VITRIFIED CLAY PIPE, STANDARD
 X-VCP-VITRIFIED CLAY PIPE, EXTRA STRENGTH

NOTE: AS BUILT INVERT ELEVATIONS GIVEN FOR C.M.P. ARE TAKEN ON THE SURFACE OF THE INVERT PAVEMENT AT THE LOWEST POINT.
 MANHOLE COORDINATES ARE CENTERLINE OF MANHOLE UNLESS OTHERWISE NOTED.
 SEE APPROPRIATE A.M.KINNEY, INC. DRAWINGS FOR AS BUILT INFORMATION FOR OTHER UTILITIES.

UNITED STATES ATOMIC ENERGY COMMISSION A. M. KINNEY, INC. CONSULTING ENGINEERS CINCINNATI 19, OHIO A. E. C. CONTRACT No. AT-(40-1)-1373		
STORM SEWERS-UNIT I PLAN AND PROFILE OF MAIN "A", SHEET-1		
DRAWING APPROVED DATE 1-23-53 ARCHITECT-ENGINEER M. J. KINNEY IN CHARGE DATE 1-23-53	DRAWING APPROVED DATE 1-23-53 CHECKED DATE 1-23-53	DRAWING APPROVED DATE 1-23-53 CHECKED DATE 1-23-53
PROJECT X SITE PORTSMOUTH AREA		
SHEET 112 2-C		

This document has been reviewed and is UNCLASSIFIED
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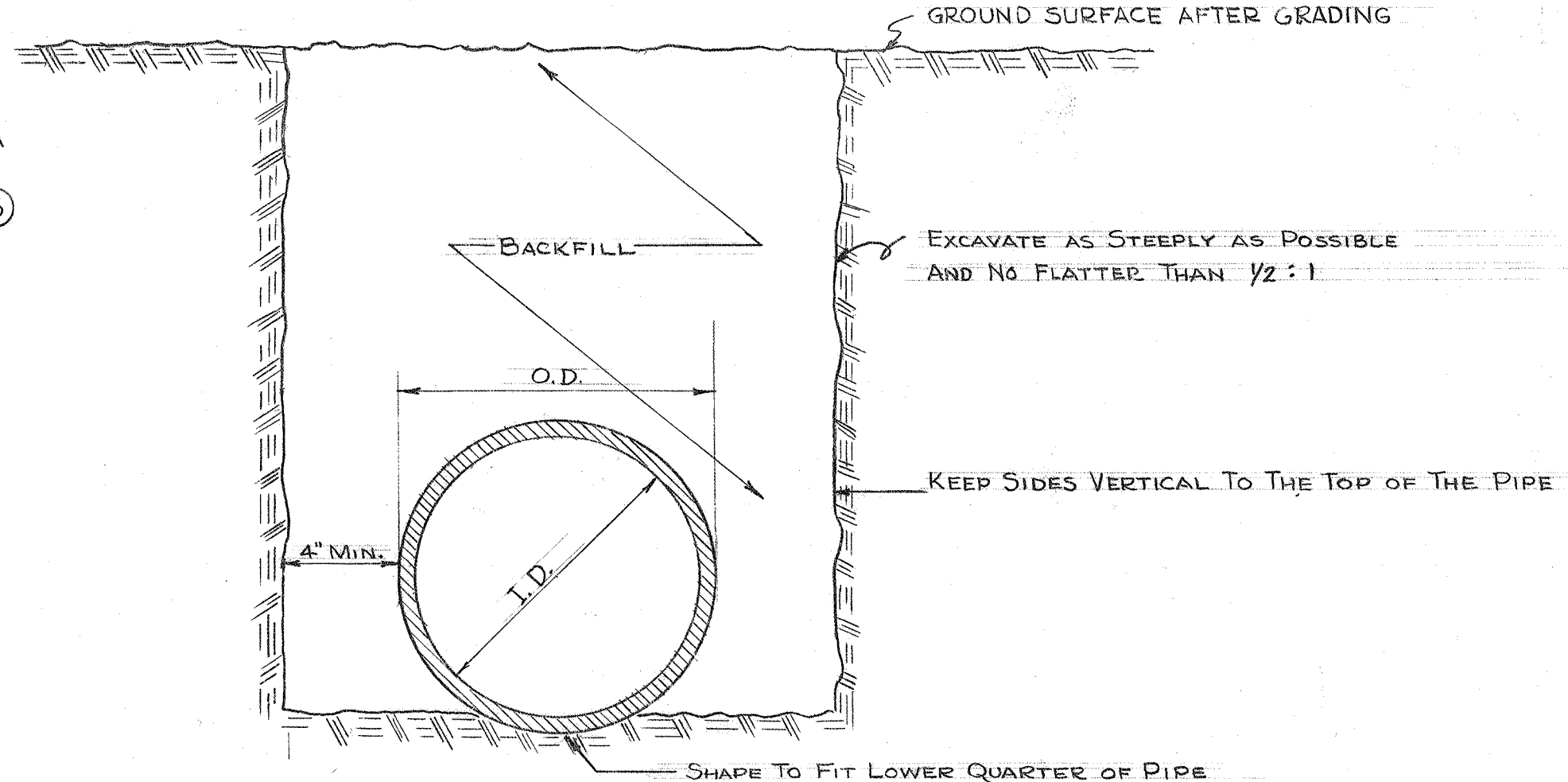
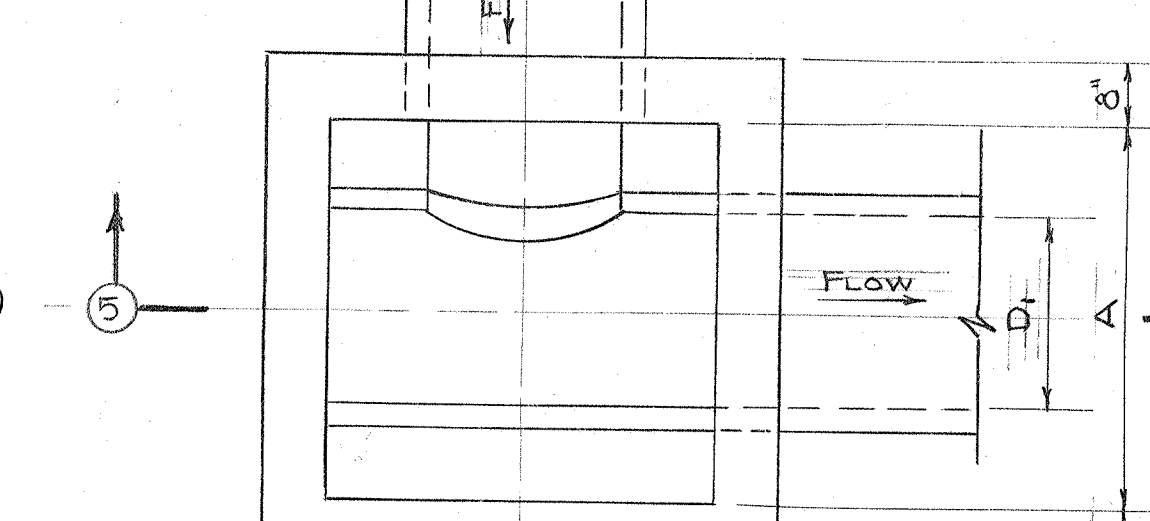
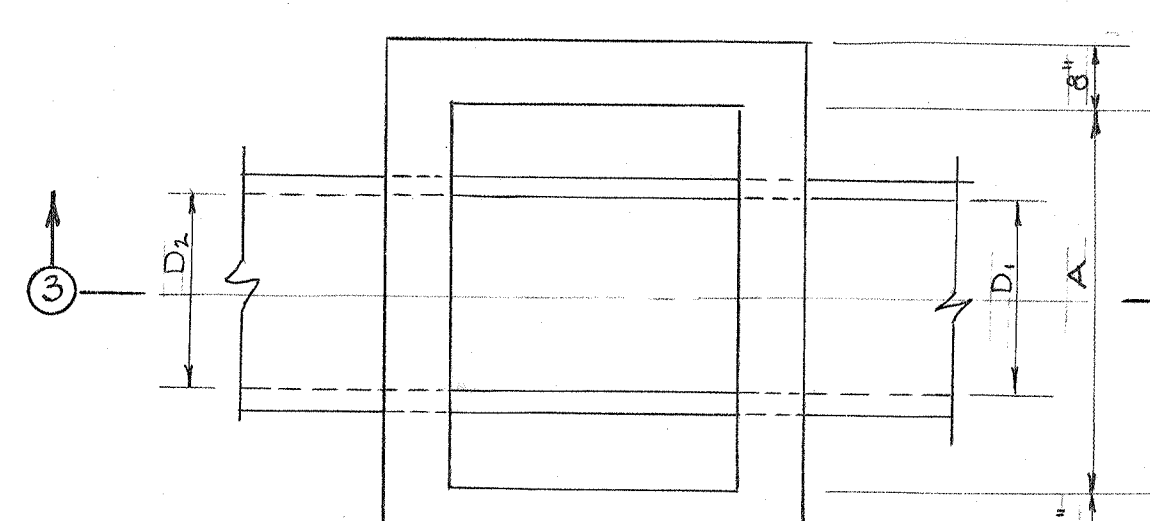
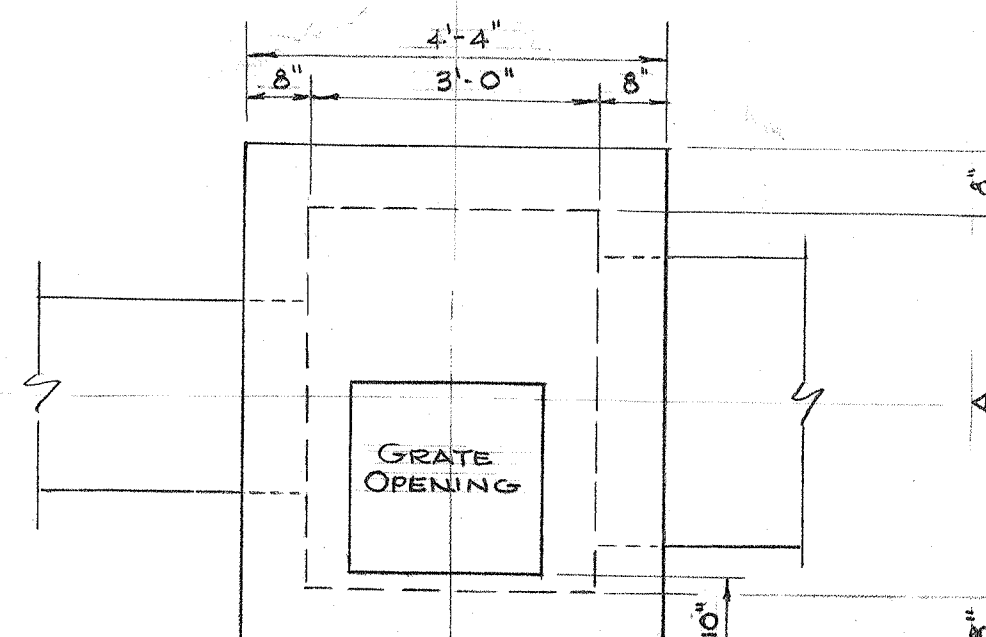
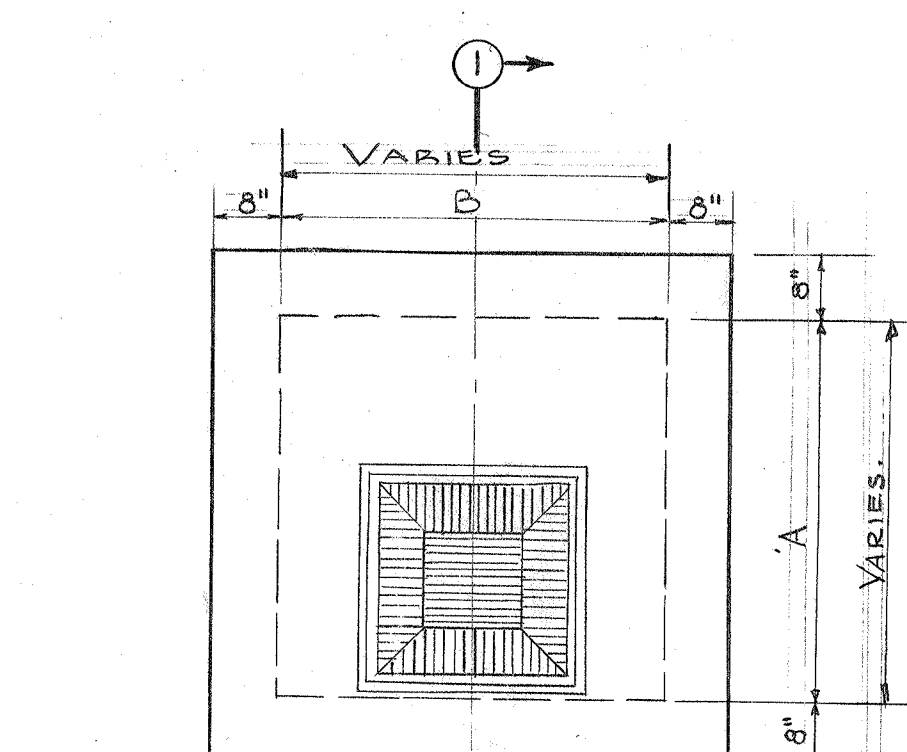
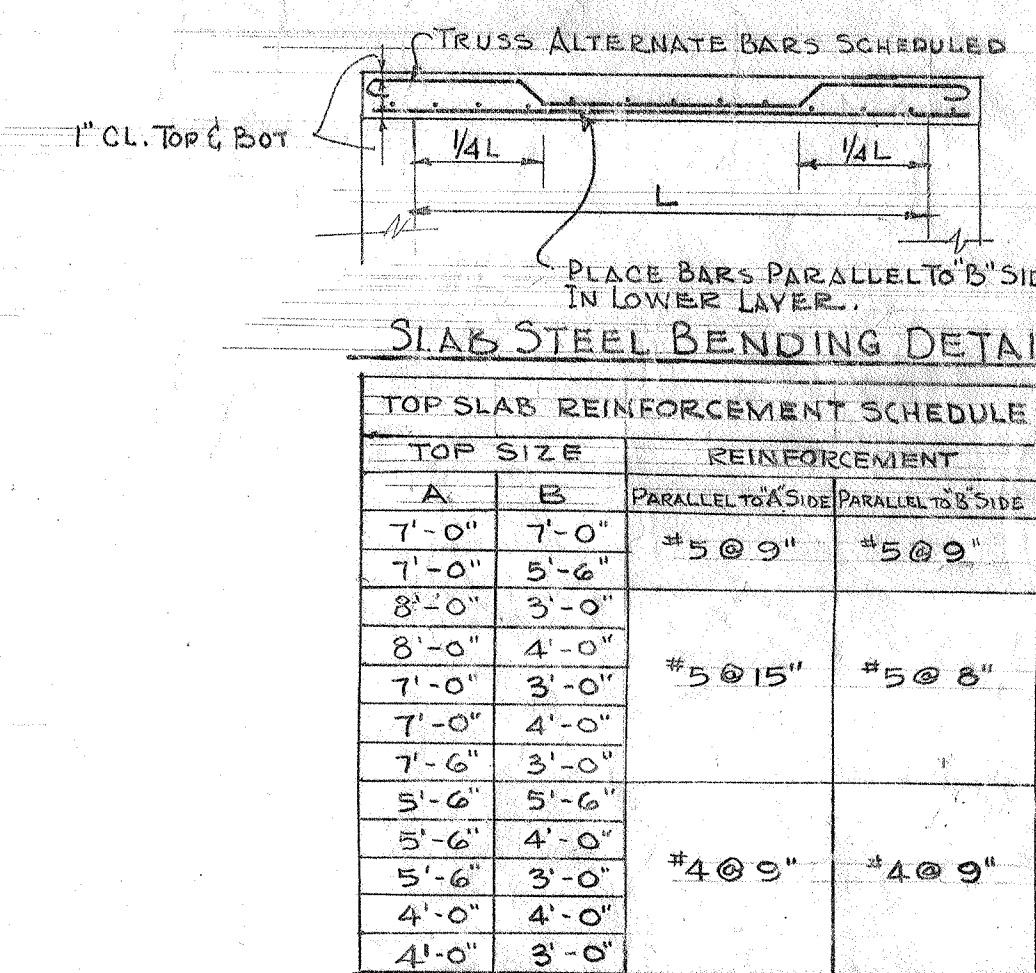
10-18-17

Information Contained Within Does Not
 Contain Export Controlled Information

Reviewer: [Signature]
 Date: 3-26-17

UNCLASSIFIED/NOT UCM
 Charles Crabtree ADC 4148
 Review Date: 2-3-00

STRUCTURE NO.	TABLE OF FRAMES AND COVERS
E-4	NEENAH R-1818 FRAME AND SOLID COVER
E-7	NEENAH R-3433 FRAME AND GRATE
E-9	NEENAH R-3433 FRAME AND GRATE
E-10	NEENAH R-1818 FRAME AND SOLID COVER
F-4	NEENAH R-3433 FRAME AND GRATE
F-5	NEENAH R-1818 FRAME AND SOLID COVER
Z-1	FIELD FABRICATED FRAME AND FLAT GRATE (FULL SIZE OF M.H. OPENING)
G-31	FIELD FABRICATED FRAME AND FLAT GRATE
G-32	FIELD FABRICATED FRAME AND FLAT GRATE



TYPICAL TRENCH SECTION

TABLE OF MAXIMUM TRENCH WIDTHS		
PIPE INSIDE DIA.	W - WITHOUT SHOULDERING	W - WITH SHOULDERING
4"	15" (O.D.)	3'-0"
6"	15" (O.D.)	3'-0"
8"	15" (O.D.)	3'-0"
10"	15" (O.D.)	3'-0"
12"	15" (O.D.)	3'-0"
15"	15" (O.D.)	3'-0"
18"	15" (O.D.)	3'-0"
21"	15" (O.D.)	3'-0"
24"	15" (O.D.)	3'-0"
27"	15" (O.D.)	3'-0"
30"	15" (O.D.)	3'-0"
36"	15" (O.D.)	3'-0"
42"	15" (O.D.)	3'-0"
48"	15" (O.D.)	3'-0"
54"	15" (O.D.)	3'-0"
60"	15" (O.D.)	3'-0"
66"	15" (O.D.)	3'-0"
72"	15" (O.D.)	3'-0"

TYPE A STRUCTURE SCHEDULE

STRUCTURE NO.	TOP DETAIL	BASE DETAIL	A FEET-INCHES	B FEET-INCHES	E FEET-INCHES
A 1	1	1	4'-0"	3'-0"	1'-0"
A 2	1	1	4'-0"	3'-0"	1'-0"
A 3	1	1	4'-0"	3'-0"	1'-0"
A 4	1	1	4'-0"	3'-0"	1'-0"
A 5	1	1	4'-0"	3'-0"	1'-0"
A 6	1	1	4'-0"	3'-0"	1'-0"
A 7	1	1	4'-0"	3'-0"	1'-0"
A 8	1	1	4'-0"	3'-0"	1'-0"
A 9	1	1	4'-0"	3'-0"	1'-0"
A 10	1	1	4'-0"	3'-0"	1'-0"
A 11	1	1	4'-0"	3'-0"	1'-0"
A 12	1	1	4'-0"	3'-0"	1'-0"
B 1	2	2	5'-6"	4'-0"	1'-4"
B 2	2	2	5'-6"	4'-0"	1'-4"
B 3	2	2	5'-6"	4'-0"	1'-4"
B 4	2	2	5'-6"	4'-0"	1'-4"
B 5	2	2	5'-6"	4'-0"	1'-4"
B 6	2	2	5'-6"	4'-0"	1'-4"
B 7	2	2	5'-6"	4'-0"	1'-4"
B 8	2	2	5'-6"	4'-0"	1'-4"
B 9	2	2	5'-6"	4'-0"	1'-4"
B 10	2	2	5'-6"	4'-0"	1'-4"
B 11	2	2	5'-6"	4'-0"	1'-4"
B 12	2	2	5'-6"	4'-0"	1'-4"
C 1	3	3	5'-6"	4'-0"	1'-4"
C 2	3	3	5'-6"	4'-0"	1'-4"
C 3	3	3	5'-6"	4'-0"	1'-4"
C 4	3	3	5'-6"	4'-0"	1'-4"
C 5	3	3	5'-6"	4'-0"	1'-4"
C 6	3	3	5'-6"	4'-0"	1'-4"
C 7	3	3	5'-6"	4'-0"	1'-4"
C 8	3	3	5'-6"	4'-0"	1'-4"
C 9	3	3	5'-6"	4'-0"	1'-4"
C 10	3	3	5'-6"	4'-0"	1'-4"
C 11	3	3	5'-6"	4'-0"	1'-4"
C 12	3	3	5'-6"	4'-0"	1'-4"
D 1	4	4	8'-0"	3'-0"	1'-4"
D 2	4	4	8'-0"	3'-0"	1'-4"
D 3	4	4	8'-0"	3'-0"	1'-4"
D 4	4	4	8'-0"	3'-0"	1'-4"
D 5	4	4	8'-0"	3'-0"	1'-4"
D 6	4	4	8'-0"	3'-0"	1'-4"
D 7	4	4	8'-0"	3'-0"	1'-4"
D 8	4	4	8'-0"	3'-0"	1'-4"
D 9	4	4	8'-0"	3'-0"	1'-4"
D 10	4	4	8'-0"	3'-0"	1'-4"
D 11	4	4	8'-0"	3'-0"	1'-4"
D 12	4	4	8'-0"	3'-0"	1'-4"
E 1	5	5	7'-0"	4'-0"	1'-4"
E 2	5	5	7'-0"	4'-0"	1'-4"
E 3	5	5	7'-0"	4'-0"	1'-4"
E 4	5	5	7'-0"	4'-0"	1'-4"
E 5	5	5	7'-0"	4'-0"	1'-4"
E 6	5	5	7'-0"	4'-0"	1'-4"
E 7	5	5	7'-0"	4'-0"	1'-4"
E 8	5	5	7'-0"	4'-0"	1'-4"
E 9	5	5	7'-0"	4'-0"	1'-4"
E 10	5	5	7'-0"	4'-0"	1'-4"
E 11	5	5	7'-0"	4'-0"	1'-4"
E 12	5	5	7'-0"	4'-0"	1'-4"
F 1	6	6	7'-0"	4'-0"	1'-4"
F 2	6	6	7'-0"	4'-0"	1'-4"
F 3	6	6	7'-0"	4'-0"	1'-4"
F 4	6	6	7'-0"	4'-0"	1'-4"
F 5	6	6	7'-0"	4'-0"	1'-4"
F 6	6	6	7'-0"	4'-0"	1'-4"
F 7	6	6	7'-0"	4'-0"	1'-4"
F 8	6	6	7'-0"	4'-0"	1'-4"
F 9	6	6	7'-0"	4'-0"	1'-4"
F 10	6	6	7'-0"	4'-0"	1'-4"
F 11	6	6	7'-0"	4'-0"	1'-4"
F 12	6	6	7'-0"	4'-0"	1'-4"
G 1	7	7	7'-0"	4'-0"	1'-4"
G 2	7	7	7'-0"	4'-0"	1'-4"
G 3	7	7	7'-0"	4'-0"	1'-4"
G 4	7	7	7'-0"	4'-0"	1'-4"
G 5	7	7	7'-0"	4'-0"	1'-4"
G 6	7	7	7'-0"	4'-0"	1'-4"
G 7	7	7	7'-0"	4'-0"	1'-4"
G 8	7	7	7'-0"	4'-0"	1'-4"
G 9	7	7	7'-0"	4'-0"	1'-4"
G 10	7	7	7'-0"	4'-0"	1'-4"
G 11	7	7	7'-0"	4'-0"	1'-4"
G 12	7	7	7'-0"	4'-0"	1'-4"
H 1	8	8	7'-0"	4'-0"	1'-4"
H 2	8	8	7'-0"	4'-0"	1'-4"
H 3	8	8	7'-0"	4'-0"	1'-4"
H 4	8	8	7'-0"	4'-0"	1'-4"
H 5	8	8	7'-0"	4'-0"	1'-4"
H 6	8	8	7'-0"	4'-0"	1'-4"
H 7	8	8	7'-0"	4'-0"	1'-4"
H 8	8	8	7'-0"	4'-0"	1'-4"
H 9	8	8	7'-0"	4'-0"	1'-4"
H 10	8	8	7'-0"	4'-0"	1'-4"
H 11	8	8	7'-0"	4'-0"	1'-4"
H 12	8	8	7'-0"	4'-0"	1'-4"
I 1	9	9	7'-0"	4'-0"	1'-4"
I 2	9	9	7'-0"	4'-0"	1'-4"
I 3	9	9	7'-0"	4'-0"	1'-4"
I 4	9	9	7'-0"	4'-0"	1'-4"
I 5	9	9	7'-0"	4'-0"	1'-4"
I 6	9	9	7'-0"	4'-0"	1'-4"
I 7	9	9	7'-0"	4'-0"	1'-4"
I 8	9	9	7'-0"	4'-0"	1'-4"
I 9	9	9	7'-0"	4'-0"	1'-4"
I 10	9	9	7'-0"	4'-0"	1'-4"
I 11	9	9	7'-0"	4'-0"	1'-4"
I 12	9	9	7'-0"	4'-0"	1'-4"

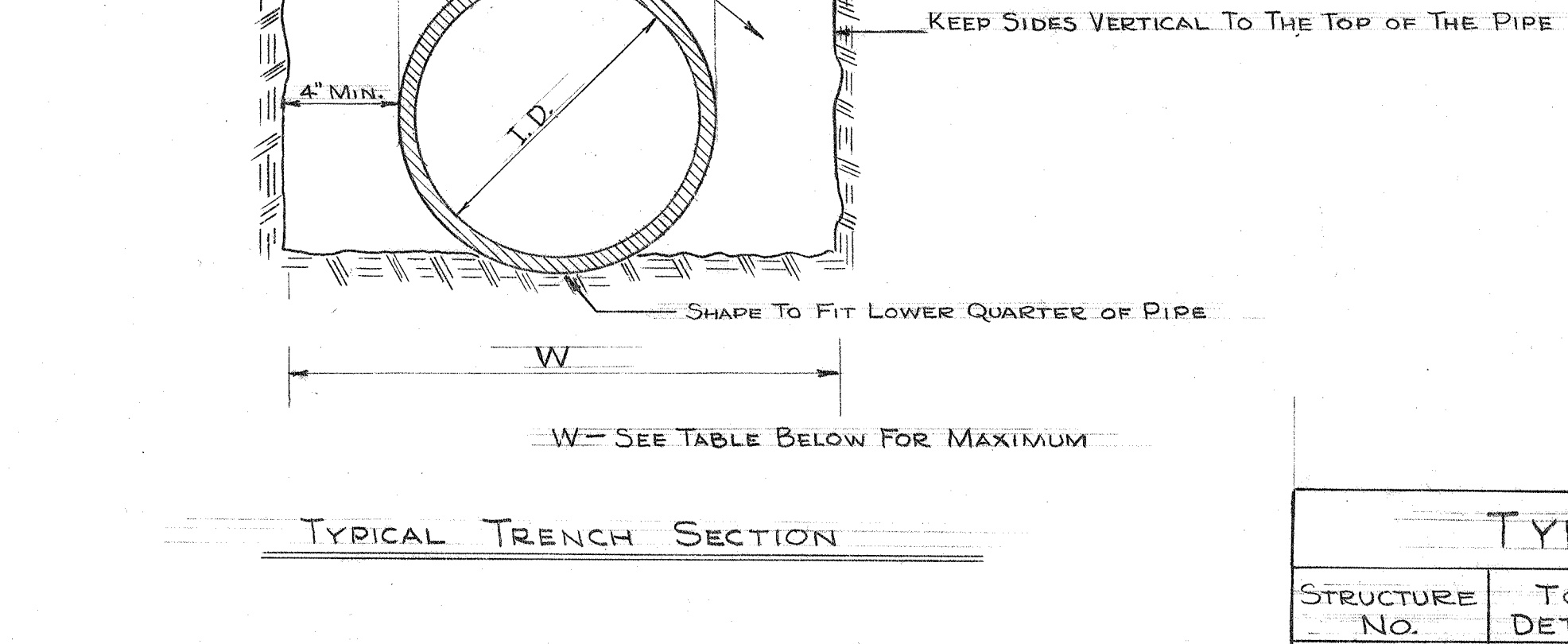
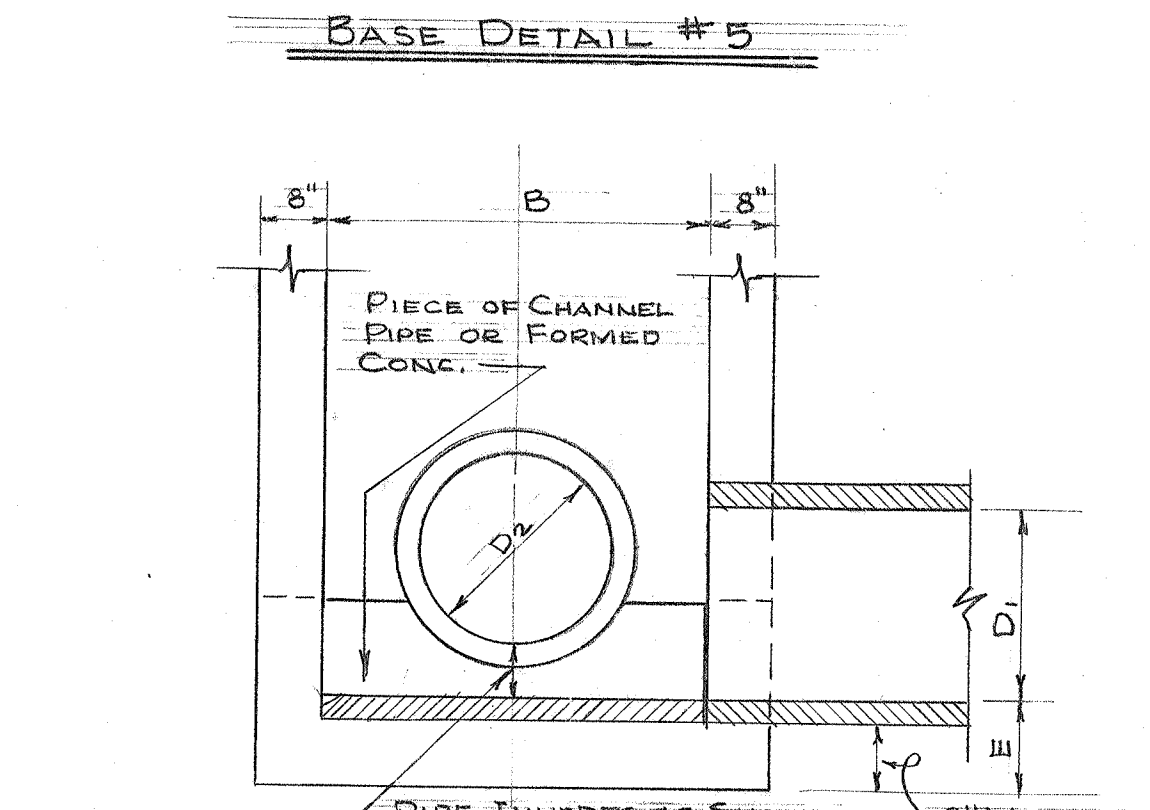
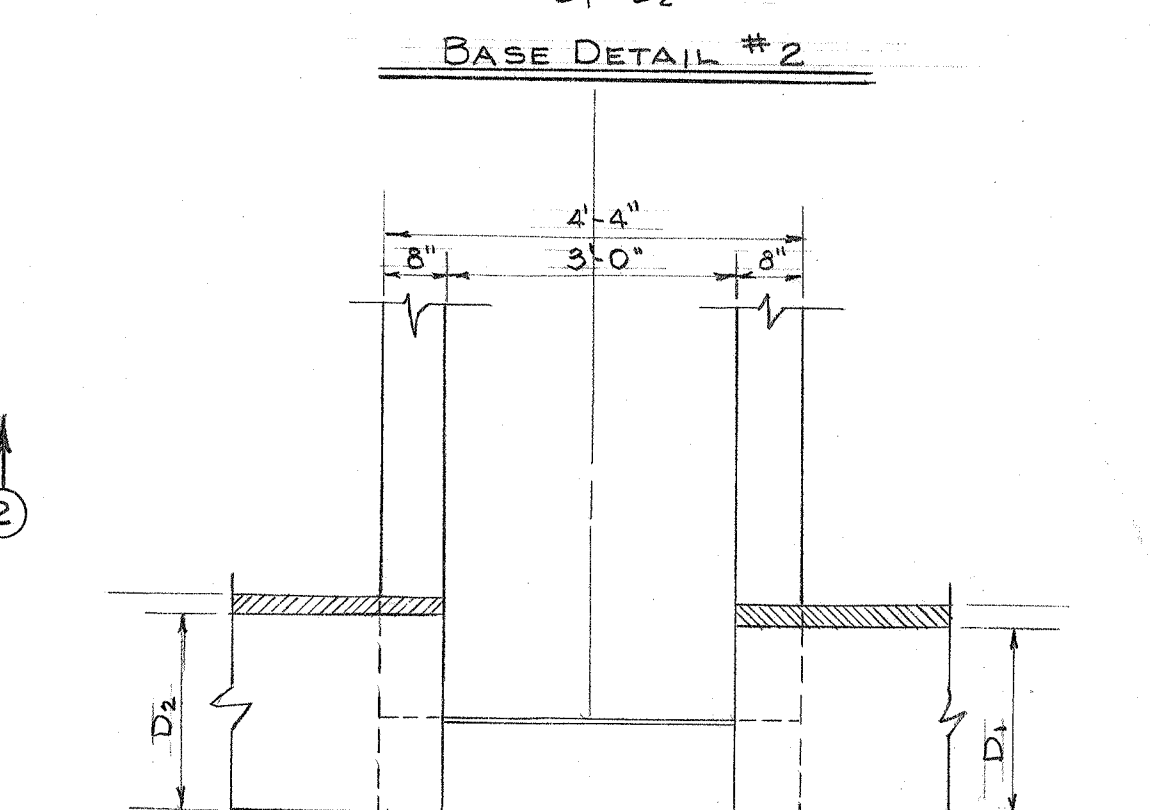
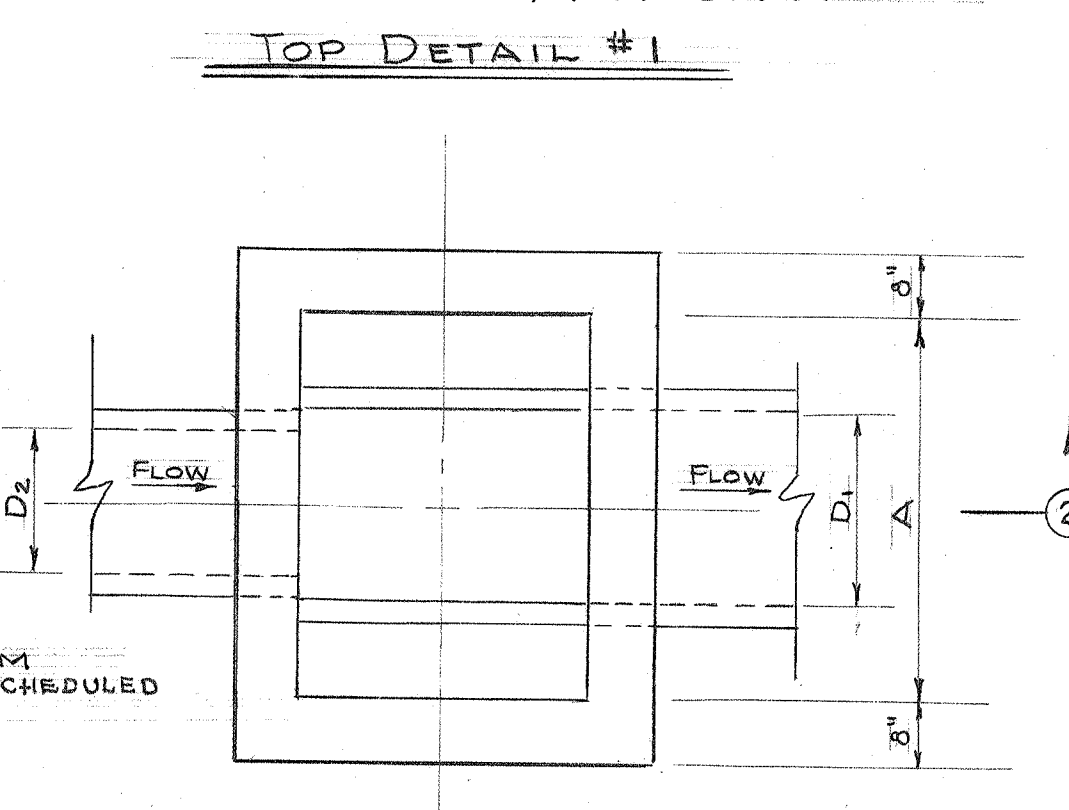
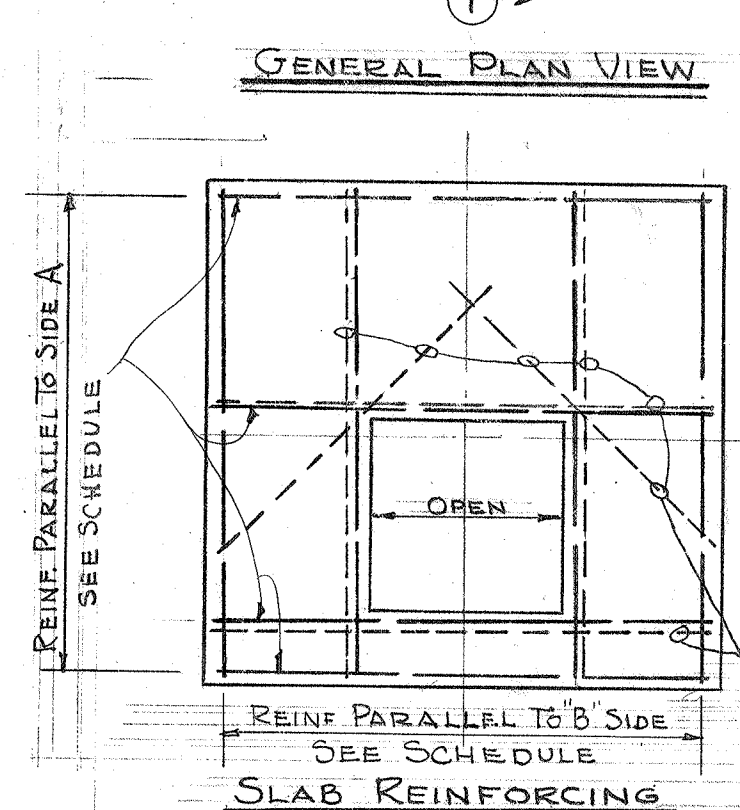
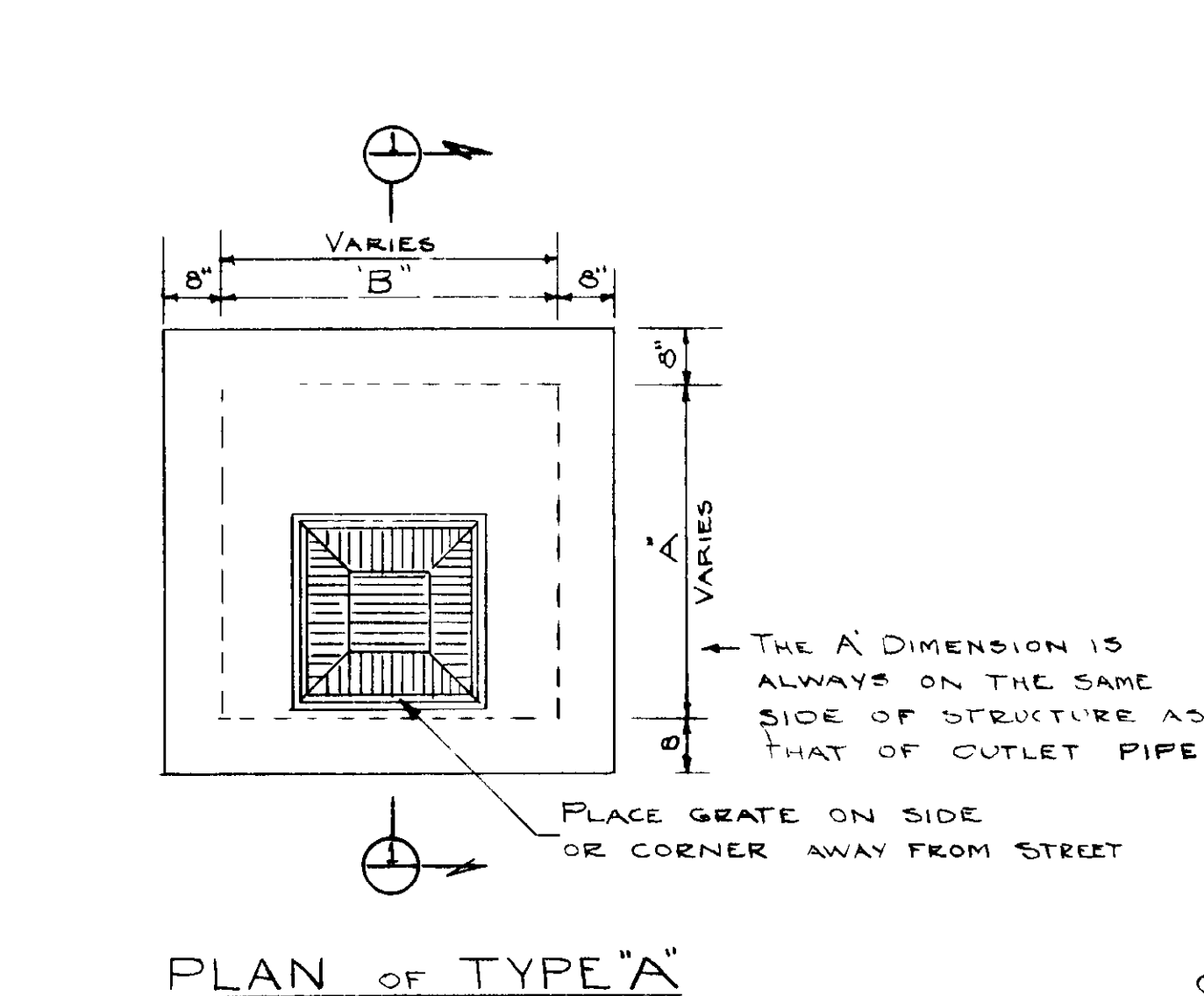


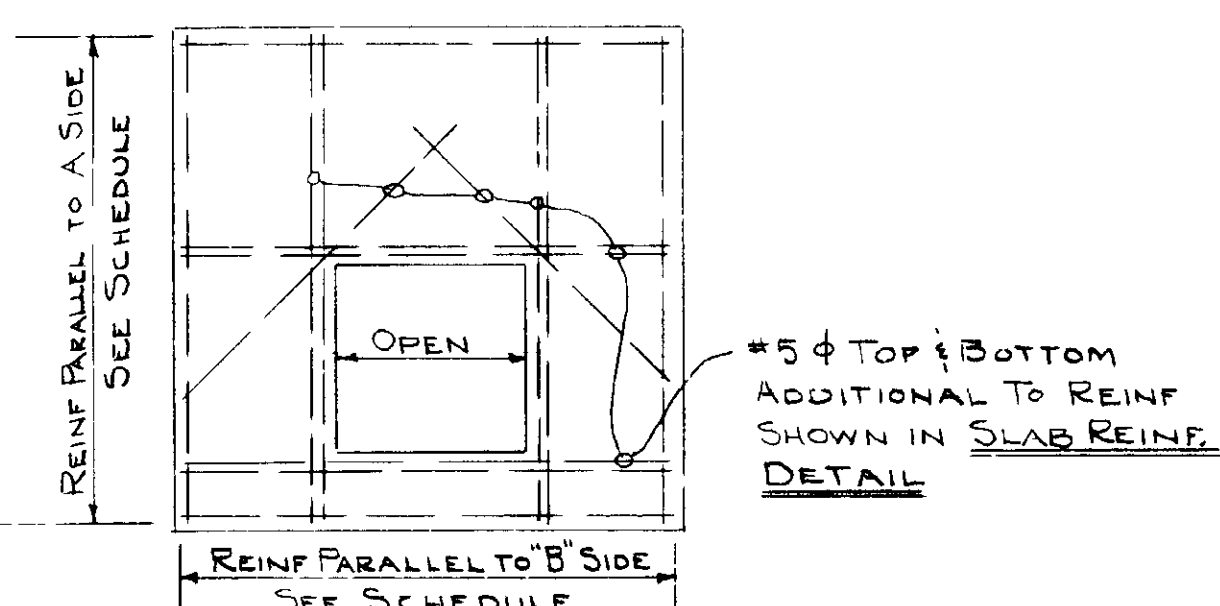
TABLE OF MAXIMUM TRENCH WIDTHS		
PIPE INSIDE DIA.	W - WITHOUT SHOULDERING	W - WITH SHOULDERING
4"	15" (O.D.)	3'-0"
6"	15" (O.D.)	3'-0"
8"	15" (O.D.)	3'-0"
10"	15" (O.D.)	3'-0"
12"	15" (O.D.)	3'-0"
15"	15" (O.D.)	3'-0"
18"	15" (O.D.)	3'-0"
21"	15" (O.D.)	3'-0"
24"	15" (O.D.)	3'-0"
27"	15" (O.D.)	3'-0"
30"	15" (O.D.)	3'-0"
36"	15" (O.D.)	3'-0"
42"	15" (O.D.)	3'-0"
48"	15" (O.D.)	3'-0"
54"	15" (O.D.)	3'-0"
60"	15" (O.D.)	3'-0"
66"	15" (O.D.)	3'-0"
72"	15" (O.D.)	3'-0"

TYPE A STRUCTURE SCHEDULE

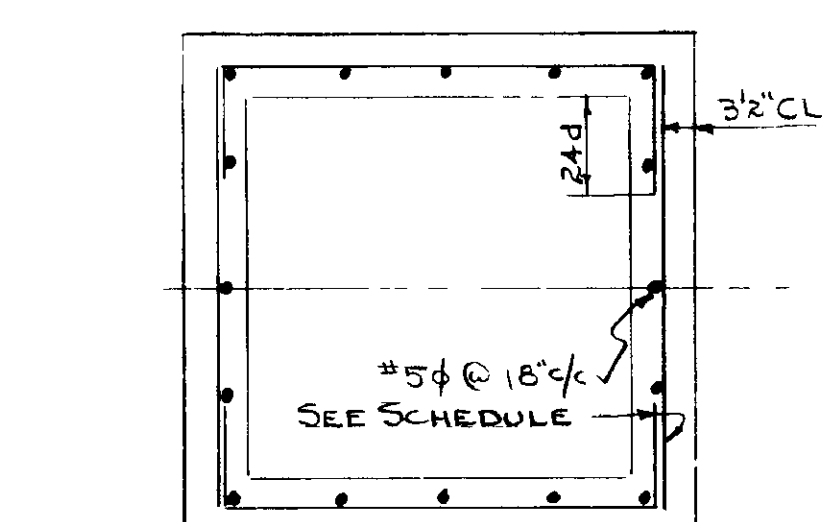
STRUCTURE NO.	TOP DETAIL	BASE DETAIL	A FEET-INCHES	B FEET-INCHES	E FEET-INCHES
A 1	3	3	4'-0	3'-0	1'-0
A 2	3	3	4'-0	3'-0	1'-0
A 3	3	SPECIAL	5'-5	3'-7	1'-2
A 4	3	3	5'-5	3'-7	1'-2
A 5	2	2	5'-6	3'-2	1'-2
A 6	2	2	5'-6	3'-2	1'-2
A 7	2	2	5'-6	3'-2	1'-2
B 1	2	2	5'-6	3'-2	1'-2
B 2	2	2	5'-6	3'-2	1'-2
B 3	2	2	5'-6	3'-2	1'-2
B 4	2	2	5'-6	3'-2	1'-2
B 5	2	2	5'-6	3'-2	1'-2
B 6	2	2	5'-6	3'-2	1'-2
B 7	2	2	5'-6	3'-2	1'-2
B 8	2	2	5'-6	3'-2	1'-2
B 9	2	2	5'-6	3'-2	1'-2
B 10	2	2	5'-6	3'-2	1'-2
B 11	2	2	5'-6	3'-2	1'-2
B 12	2	2	5'-6	3'-2	1'-2
C 1	3	3	4'-4	3'-3	1'-2
C 2	3	3	4'-4	3'-3	1'-2
C 3	3	3	4'-4	3'-3	1'-2
C 4	3	3	4'-4	3'-3	1'-2
C 5	3	3	4'-4	3'-3	1'-2
C 6	3	3	4'-4	3'-3	1'-2
C 7	3	3	4'-4	3'-3	1'-2
C 8	3	3	4'-4	3'-3	1'-2
C 9	3	3	4'-4	3'-3	1'-2
C 10	3	3	4'-4	3'-3	1'-2
C 11	3	3	4'-4	3'-3	1'-2
C 12	3	3	4'-4	3'-3	1'-2
D 1	1	7	8'-0	3'-0	1'-4
D 2	1	7	8'-0	3'-0	1'-4
D 3	2	7	8'-0	3'-4	1'-4
D 4	2	7	8'-0	3'-4	1'-4
D 5	2	7	8'-0	3'-4	1'-4
D 6	2	7	8'-0	3'-4	1'-4
D 7	2	7	8'-0	3'-4	1'-4
D 8	2	7	8'-0	3'-4	1'-4
D 9	2	7	8'-0	3'-4	1'-4
E 1	1	2	8'-0	3'-0	1'-4
E 2	1	2	8'-0	3'-0	1'-4
E 3	2	2	8'-0	3'-7	1'-4
E 4	2	2	8'-0	3'-7	1'-4
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E 6	2	2	8'-0	3'-7	1'-4
E 7	2	2	8'-0	3'-7	1'-4
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F 3	3	3	5'-6	4'-0	1'-4
F 4	3	3	5'-6	4'-0	1'-4
F 5	3	3	5'-6	4'-0	1'-4
F 6	3	3	5'-6	4'-0	1'-4
F 7	3	3	5'-6	4'-0	1'-4
F 8	3	3	5'-6	4'-0	1'-4
F 9	3	3	5'-6	4'-0	1'-4
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F 11	3	3	5'-6	4'-0	1'-4
F 12	3	3	5'-6	4'-0	1'-4
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G 3	2	4	5'-6	4'-0	1'-4
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G 5	2	4	5'-6	4'-0	1'-4
G 6	2	4	5'-6	4'-0	1'-4
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G 8	2	4	5'-6	4'-0	1'-4
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G 10	2	4	5'-6	4'-0	1'-4
G 11	2	4	5'-6	4'-0	1'-4
G 12	2	4	5'-6	4'-0	1'-4
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H 2	2	3	7'-0	3'-0	1'-4
H 3	2	3	7'-0	3'-0	1'-4
H 4	2	3	7'-0	3'-0	1'-4
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Q 4	2	3	7'-0	3'-0	1'-4
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U 9	2	3	7'-0	3'-0	1'-4
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U 12	2	3	7'-0	3'-0	1'-4
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V 3	2	3	7'-0	3'-0	1'-4
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V 8	2	3	7'-0	3'-0	1'-4
V 9	2	3	7'-0	3'-0	1'-4
V 10	2	3	7'-0	3'-0	1'-4
V 11	2	3	7'-0	3'-0	1'-4
V 12	2	3	7'-0	3'-0	1'-4
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W 3	2	3	7'-0	3'-0	1'-4
W 4	2	3	7'-0	3'-0	1'-4
W 5	2	3	7'-0	3'-0	1'-4
W 6	2	3	7'-0	3'-0	1'-4
W 7	2	3	7'-0	3'-0	1'-4
W 8	2	3	7'-0	3'-0	1'-4
W 9	2				



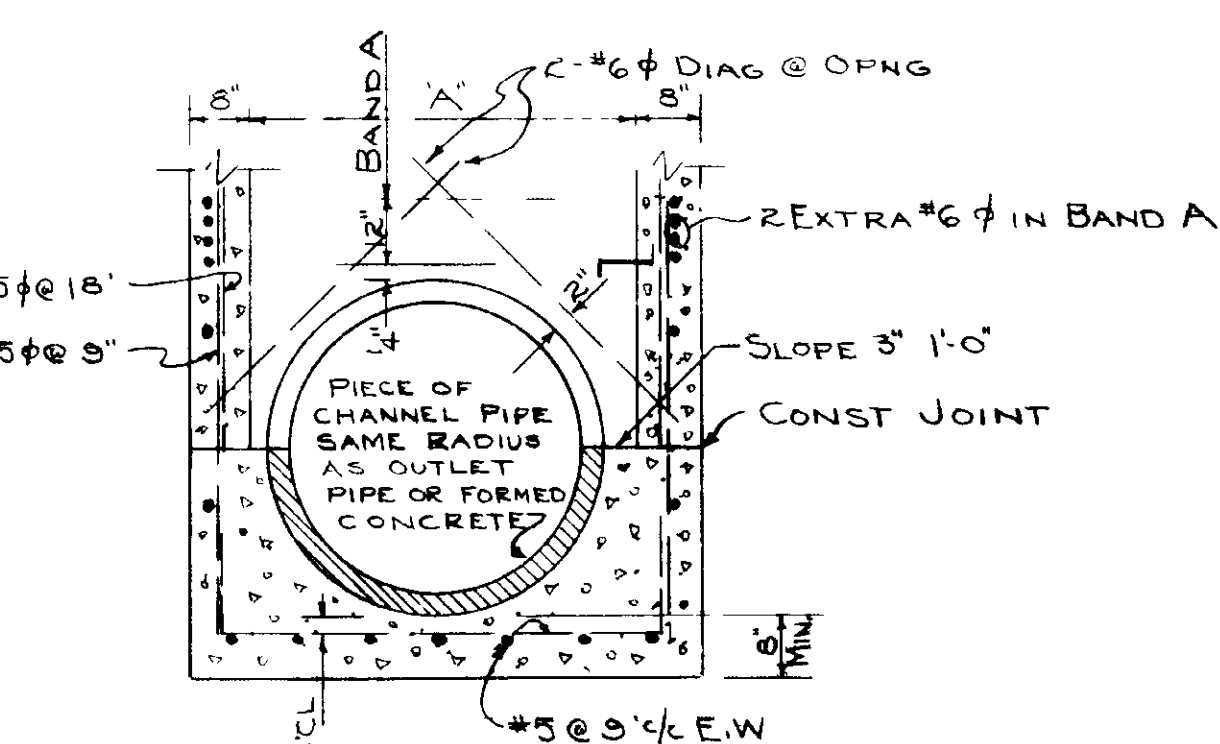
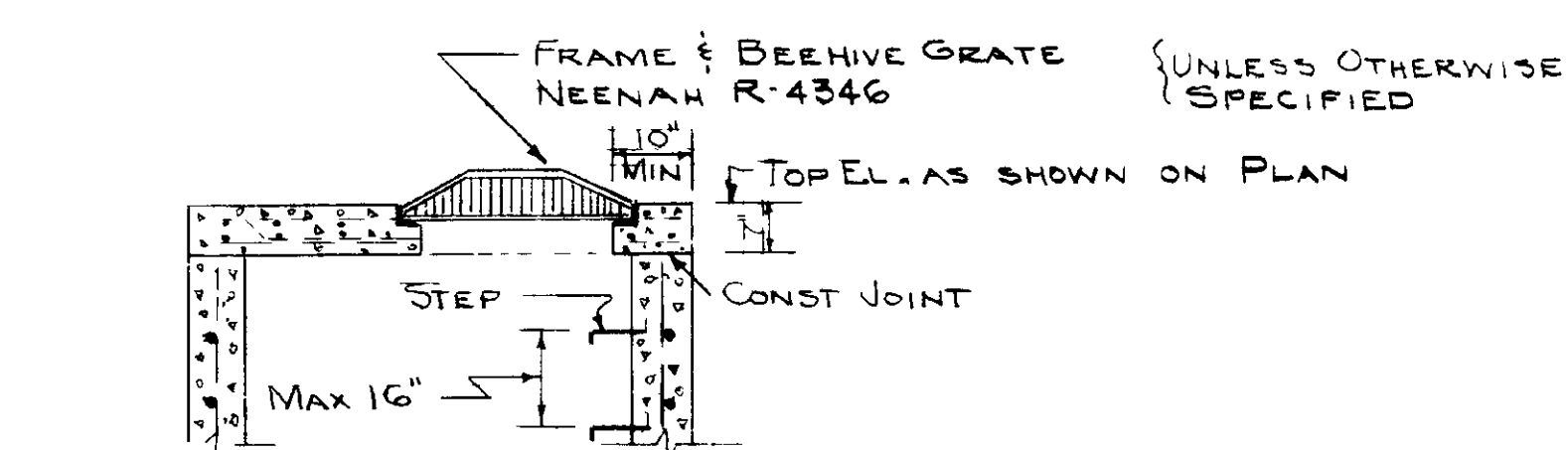
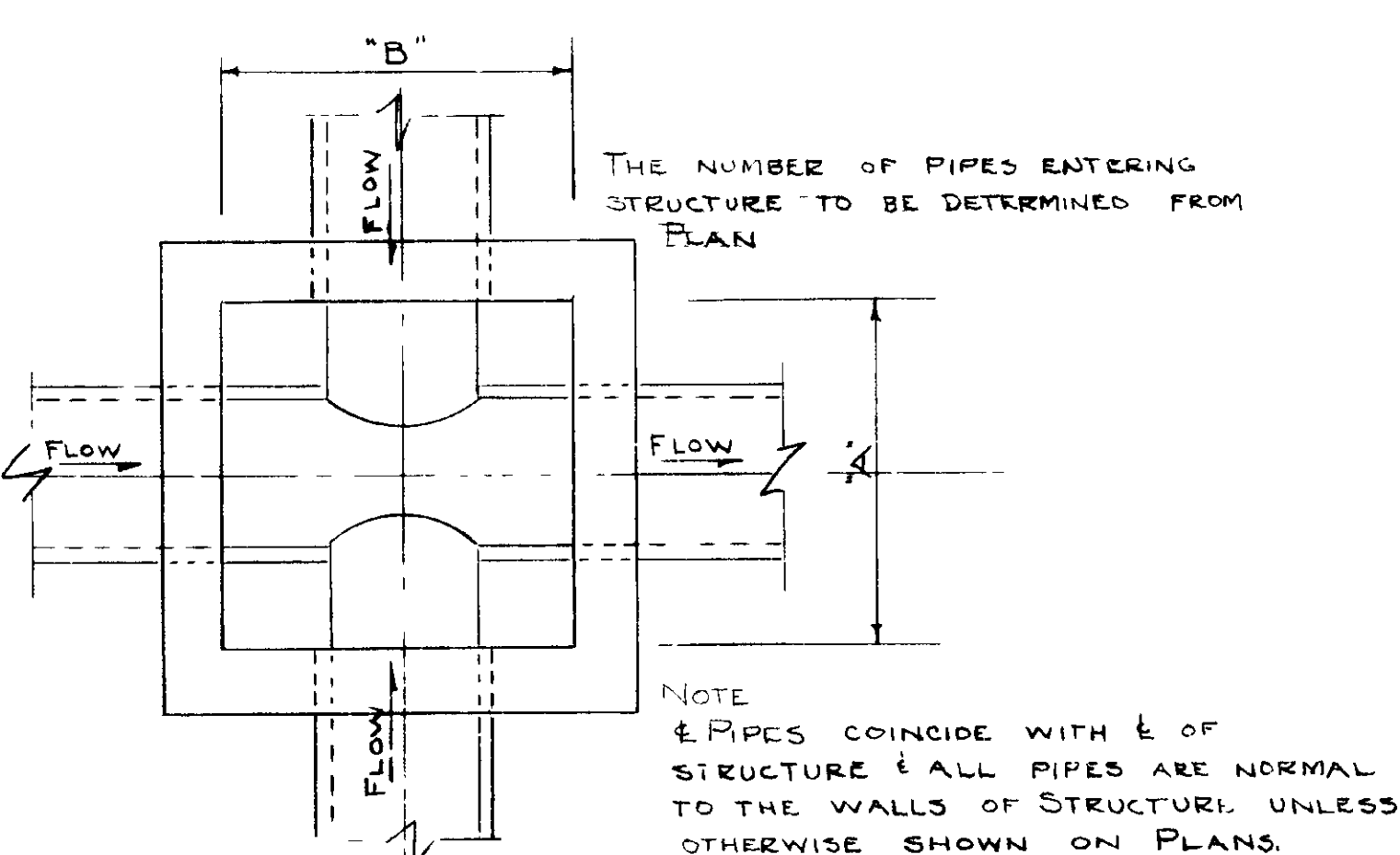
PLAN OF TYPE "A"



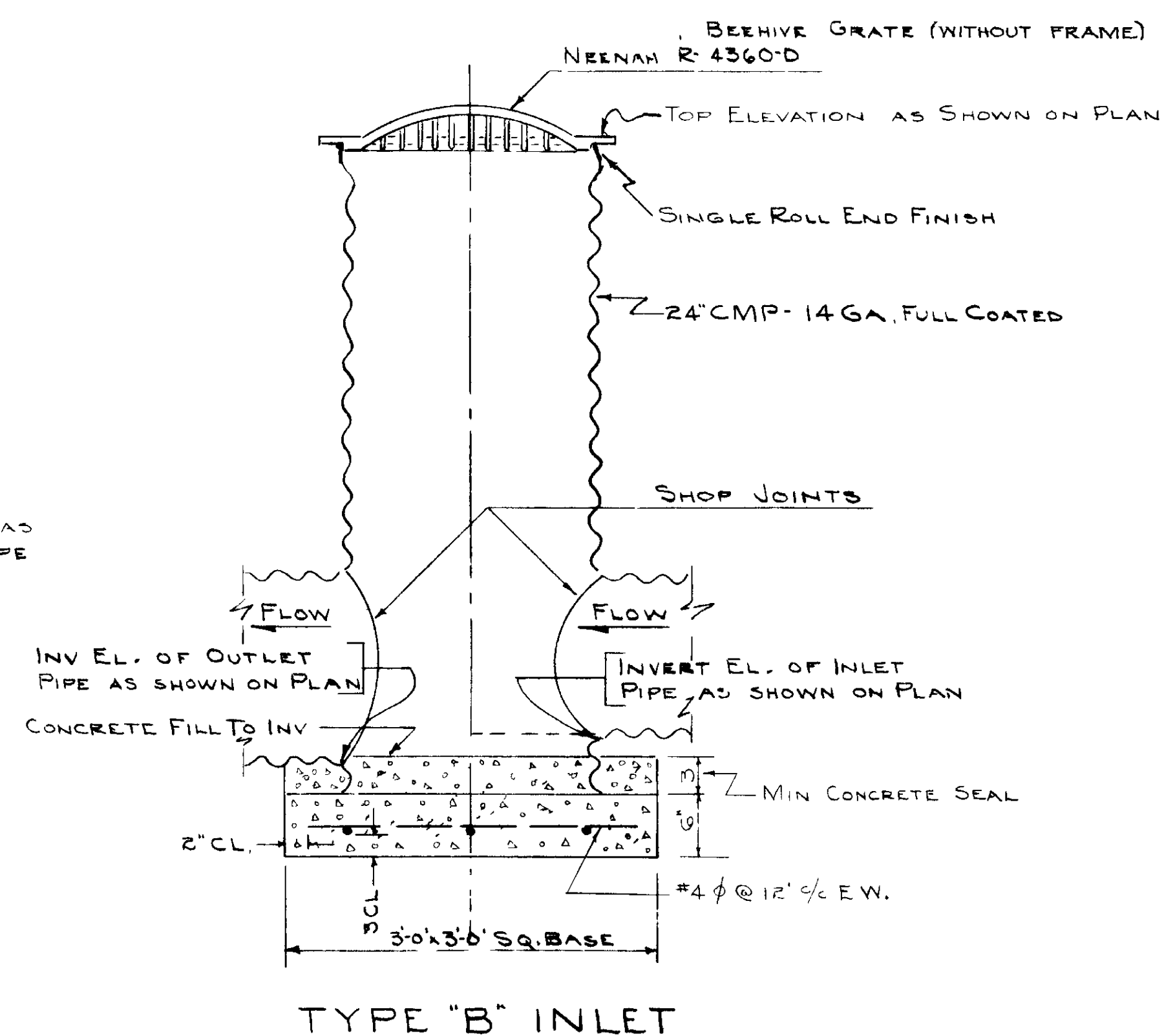
SLAB REINFORCING



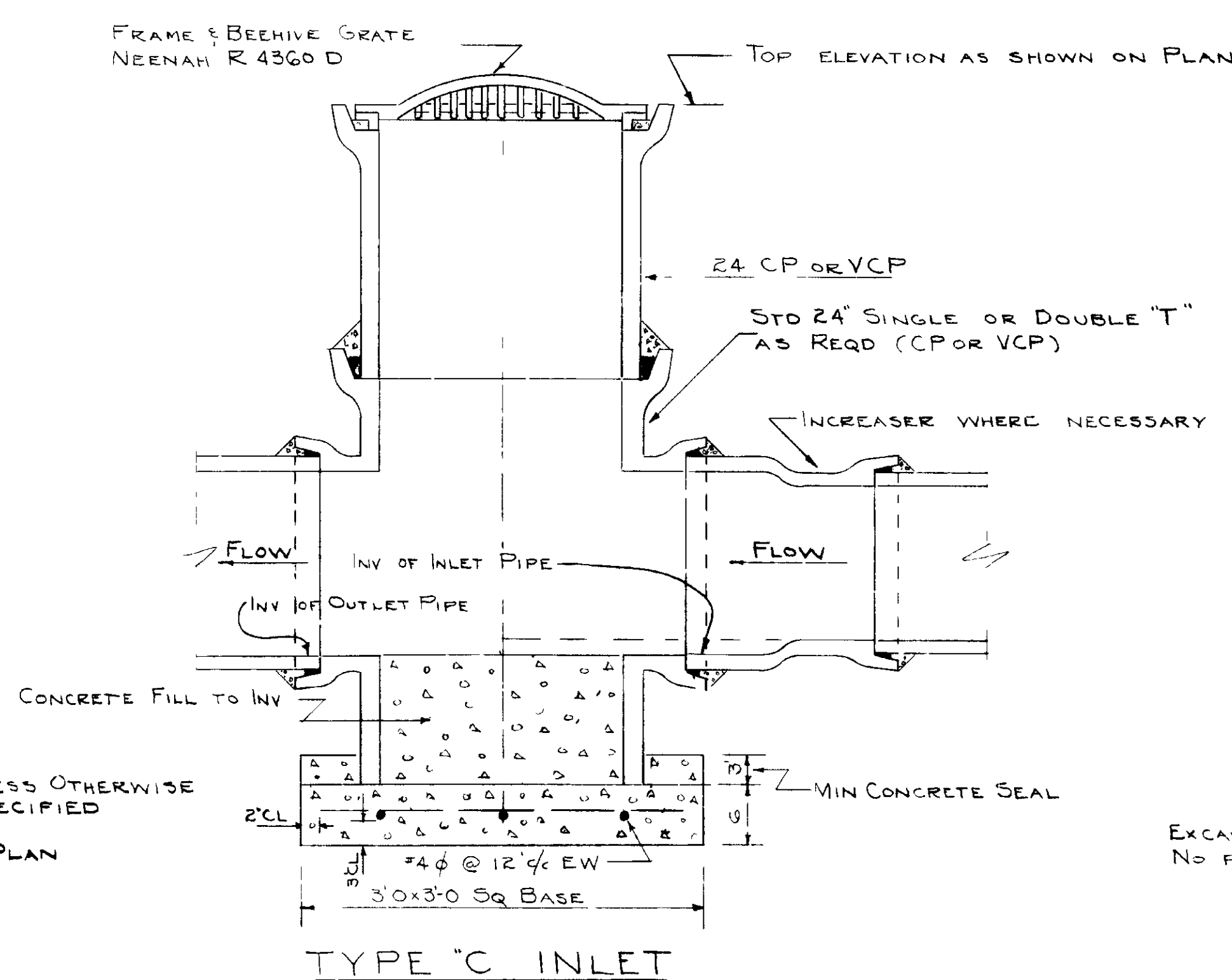
WALL REINFORCING

SECTION -

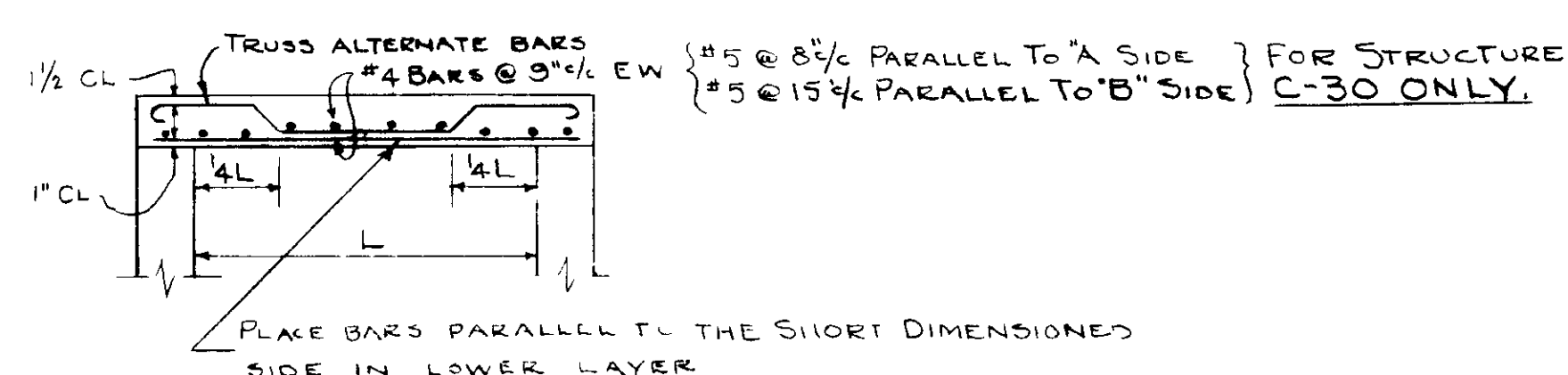
TYPICAL BASE DETAIL-TYPE "A"



TYPE "B" INLET



TYPE "C" INLET

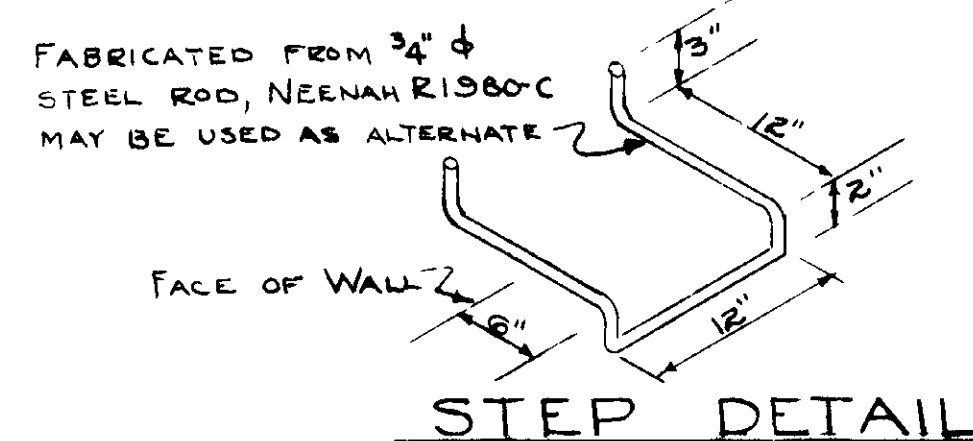


SLAB REINFORCING DETAIL

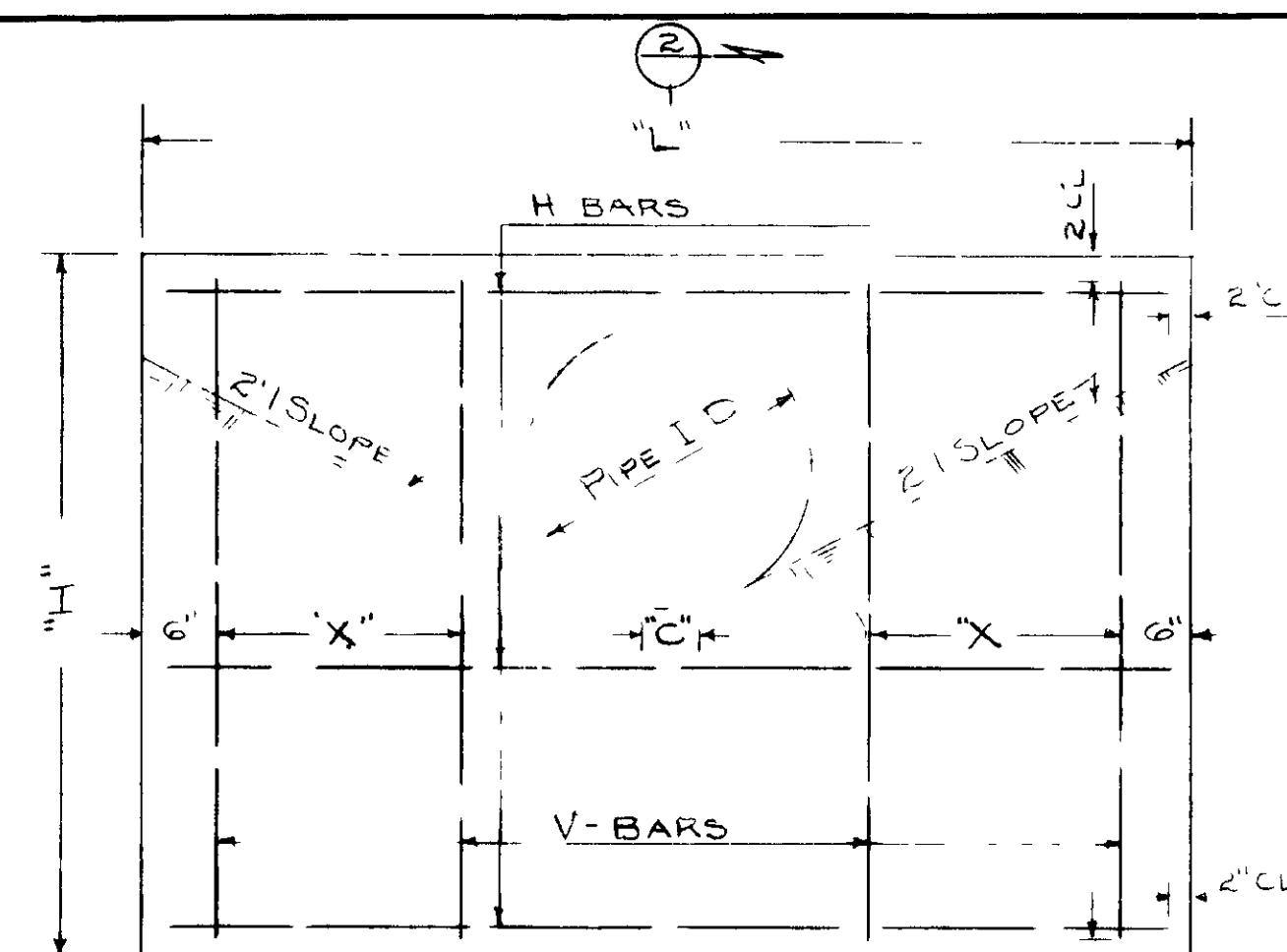
WALL REINFORCEMENT SCHEDULE	
LARGEST AOR B DIST	HORIZ REINF
4'-0"	#5 @ 12"
5'-0"	#6 @ 12"
5'-6" OR 6'-0"	#6 @ 12"
10'-0"	#6 @ 6"

*HORIZ WALL REINFORCING USED FOR LONG SIDES OF STRUCTURE SHALL ALSO BE USED FOR THE SHORT SIDES

ALL VERTICAL WALL REINFORCEMENT ABOVE BAND A = #5 @ 18"
LAP ALL BARS 24 DIAMETERS
SEE STRUCTURE SCHEDULE
FOR DIMENSIONS 'A' & 'B'

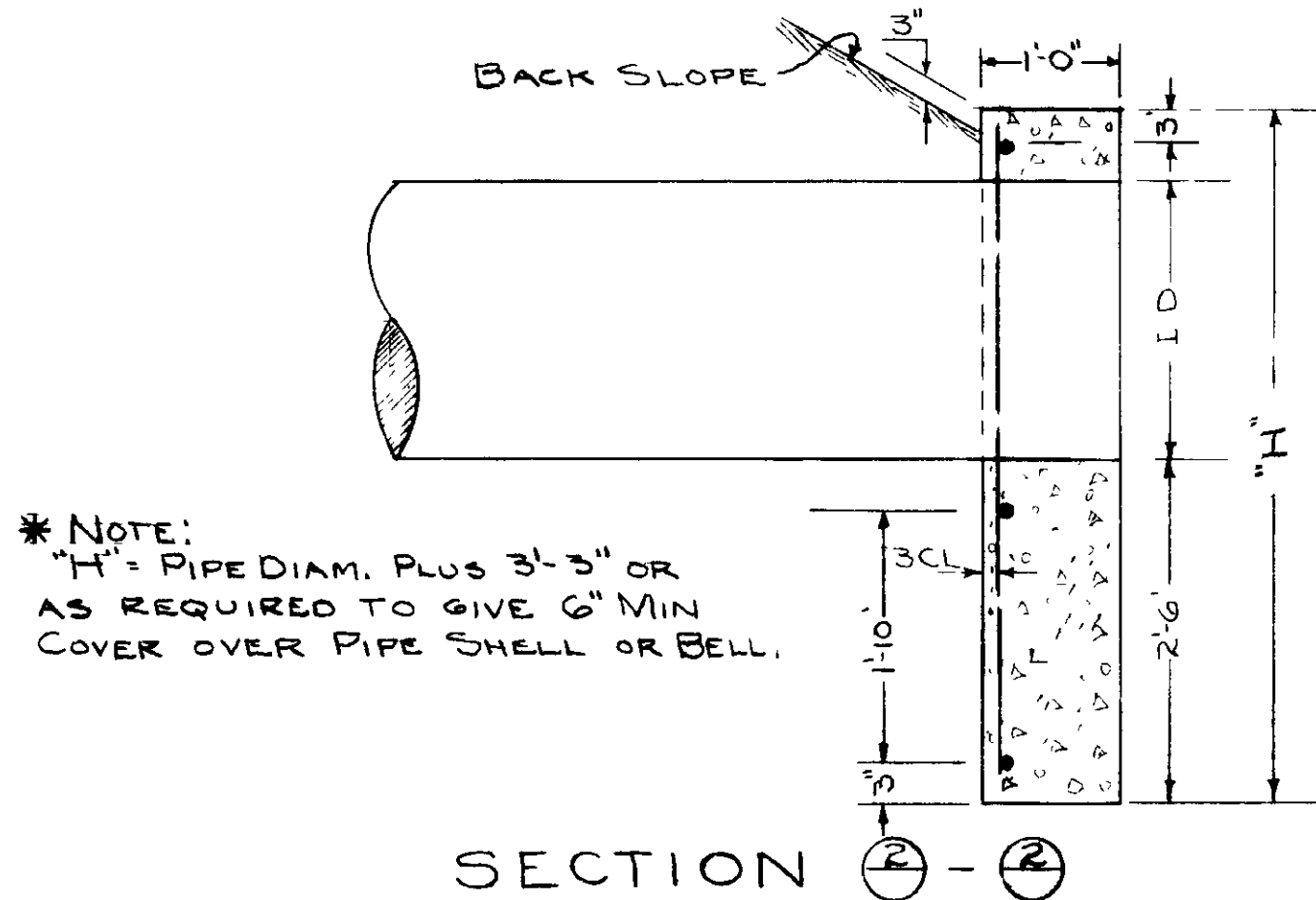


STEP DETAIL



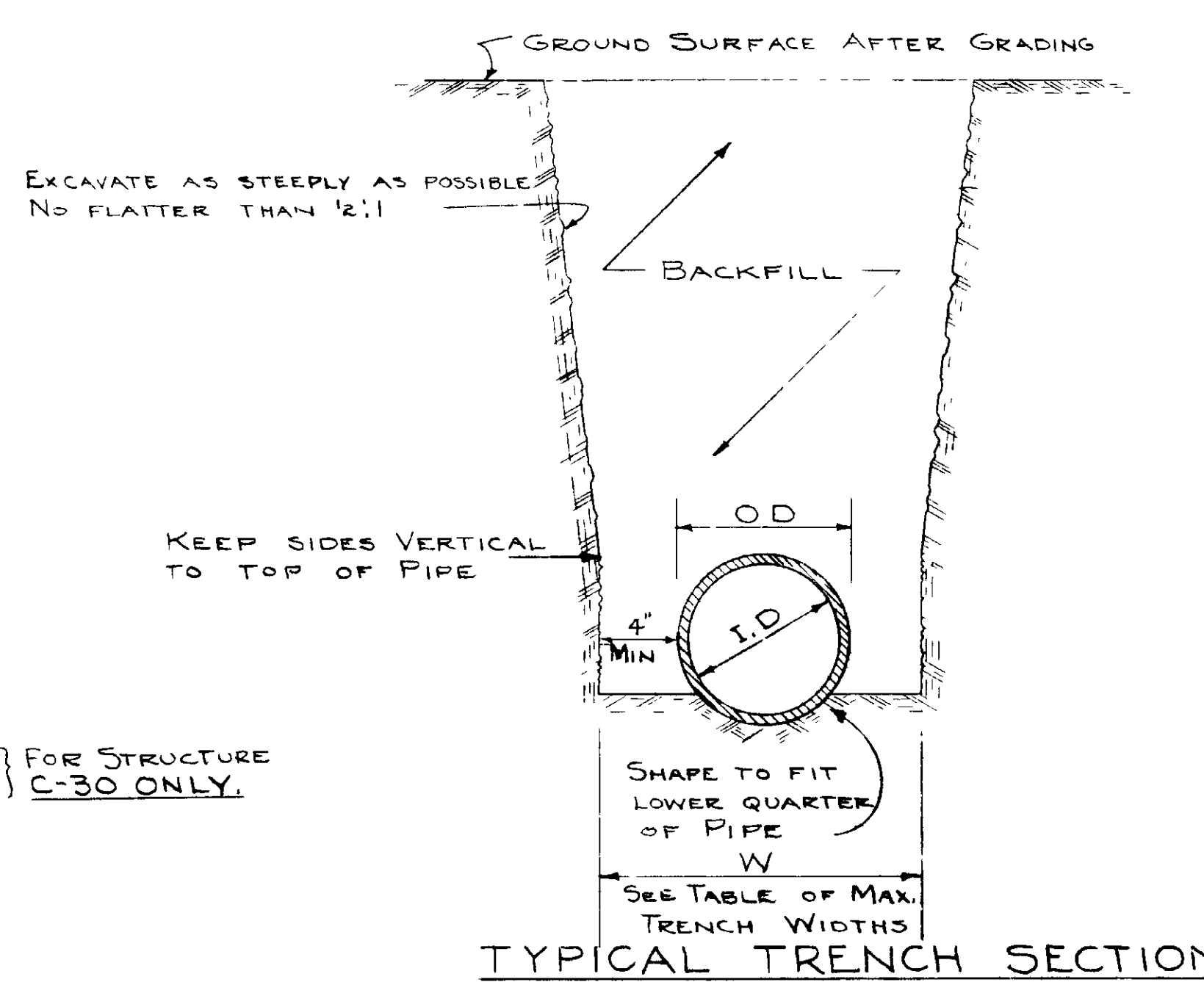
ELEVATION
HEADWALL TYPE "B"

PIPE I.D.	"H" *	"L"	"C"	REINFORCING STEEL		"X"
				N° BARS #4 N° LENGTH	V BARS #4 N° LENGTH	
12"	4'-3"	4'-3"	3'	3	2	0'-11"
15"	4'-6"	5'-4"	4'	3	4	0'-11"
18"	4'-9"	6'-4"	4'	3	4	1'-0"
21"	5'-0"	7'-5"	5'	3	4	1'-0"
24"	5'-3"	8'-6"	6'	3	4	1'-9"



SECTION 2 - 2

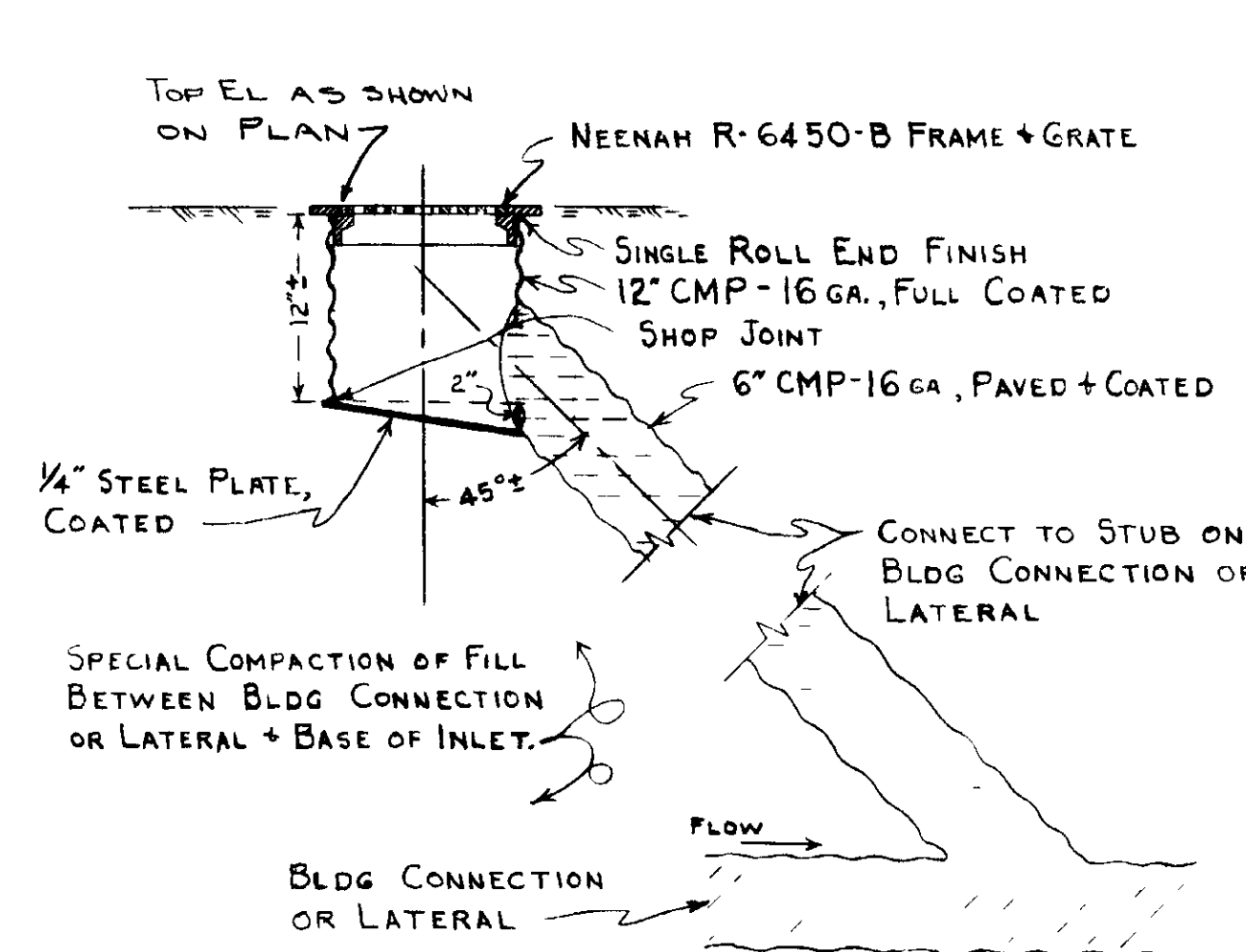
* NOTE:
"H" = PIPE DIAM. PLUS 3'-3" OR
AS REQUIRED TO GIVE 6" MIN
COVER OVER PIPE SHELL OR BELL.



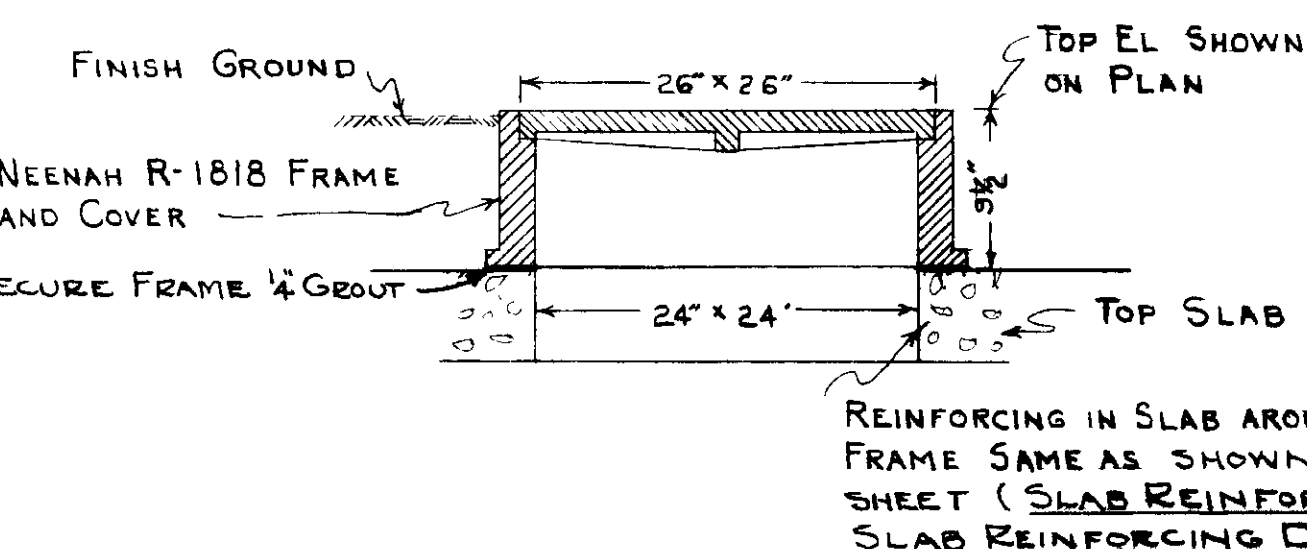
TRENCH WIDTHS
TYPICAL TRENCH SECTION

① I.D. OF PIPE IN INCHES	② W WITHOUT SHORING	③ W WITH SHORING
4	1.5" (O.D.)	3" - 0"
6		3" - 0"
8		3" - 0"
10		3" - 0"
12		3" - 0"
15		3" - 6"
18		4" - 0"
21	1.5" (O.D.)	
24	ID + 18"	COL @ + 6"
27	ID + 18"	
30	ID + 24"	
36	ID + 30"	
42	ID + 36"	
48	ID + 36"	
54	ID + 36"	
60	ID + 36"	
66	ID + 42"	
72	ID + 42"	COL @ + 6"

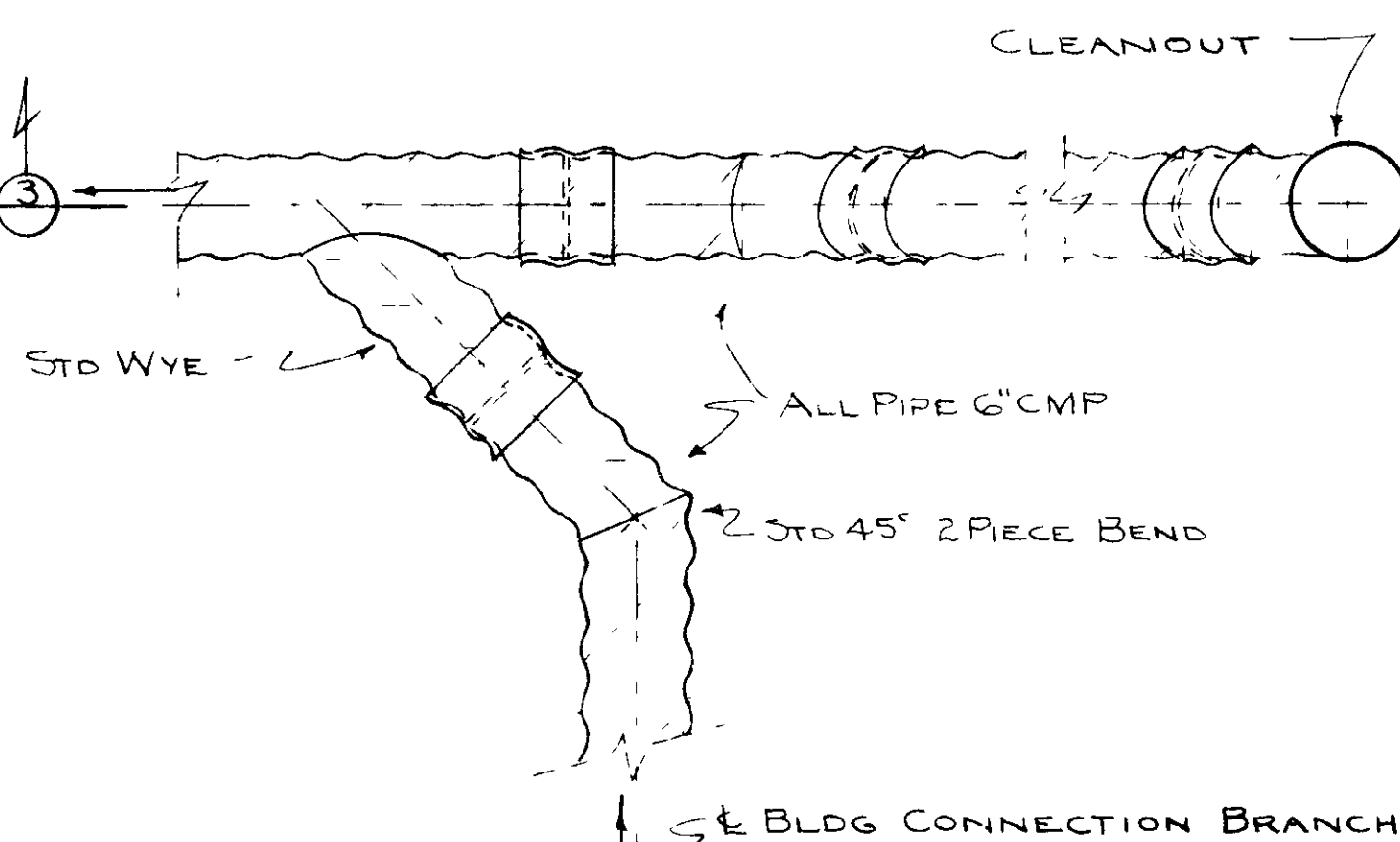
TABLE OF MAX TRENCH WIDTHS



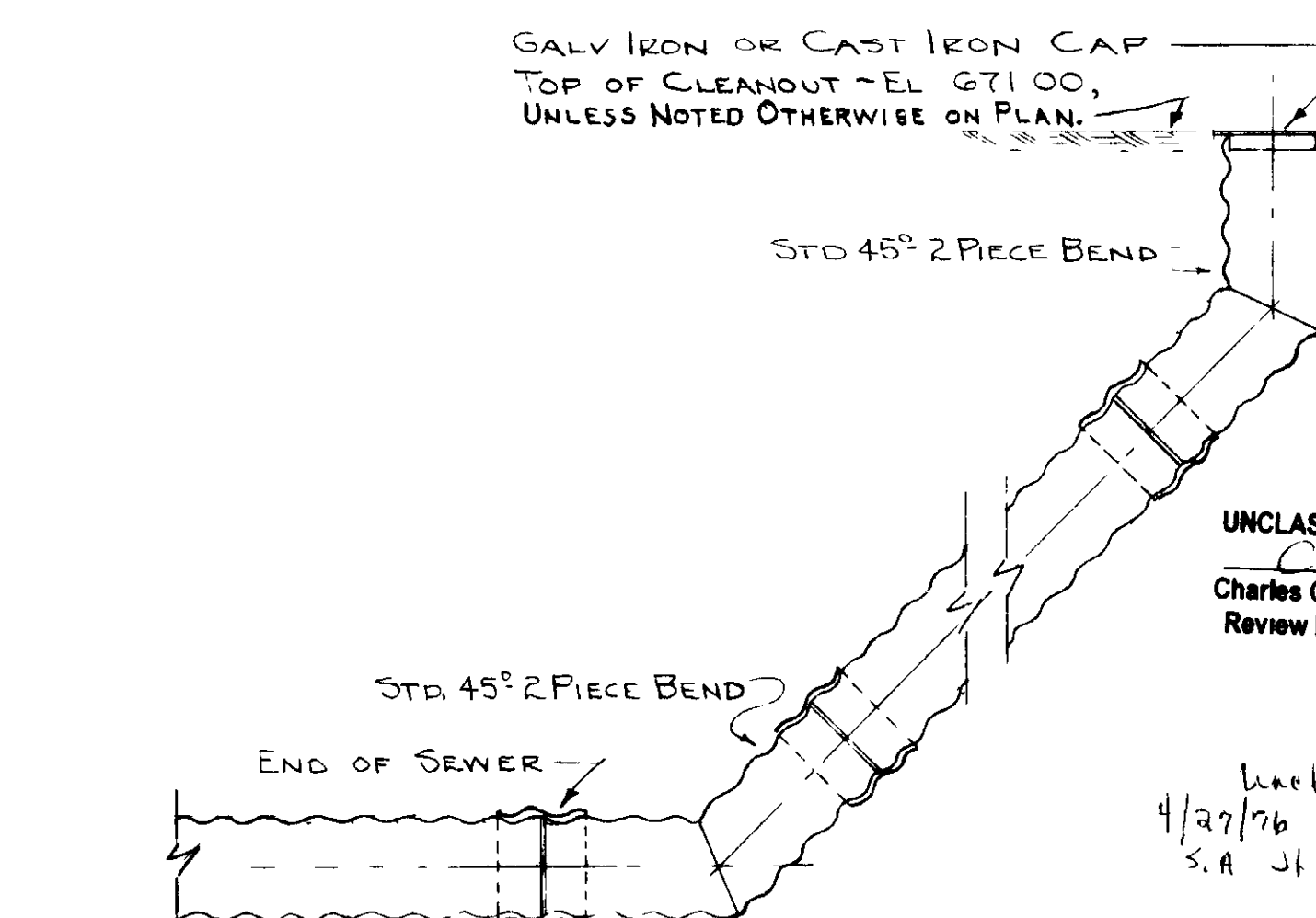
TYPE "D" INLET



DETAIL OF MANHOLE FRAME AND COVER



DETAIL 



SECTION ③-③

NOTES

SEQUENCE NO. 1464

USE NEEHAH R-4348 FRAME + GRATE _____ ON STRUCTURE M-1,
USE NEEHAH R-1818 FRAME + COVER _____ ON STRUCTURES C-30, C 50, C 51

SEE APPROPRIATE A.M.KINNEY INC. DRAWINGS FOR AS BUILT
INFORMATION FOR OTHER UTILITIES.

[illegible]

LEGEND	
SYMBOL ON PLAN	DESCRIPTION
6" CMP	PAVED & COATED 16 GA. HELICALLY CORRUGATED METAL PIPE, SIMILAR TO AEMCO HEL-COR OR TONGAN COR-WELL
8" CMP, 10" CMP, 12" CMP, 15" CMP, 18" CMP, + 24" CMP	PAVED & COATED 16 GA. STANDARD RIVETED CORRUGATED METAL PIPE
30" CMP, 36" CMP, 42" CMP, 48" CMP, 6" CP, 8" CP, 10" CP, 12" CP, 15" CP, 18" CP, 21" CP, 24" CP, 27" CP, 30" CP, & 36" CP	PAVED & COATED 14 GA. STANDARD RIVETED CORRUGATED METAL PIPE PLAIN CONCRETE SEWER PIPE OR STANDARD STRENGTH VITRIFIED CLAY PIPE. REINFORCED CONCRETE SEWER PIPE OR STANDARD STRENGTH VITRIFIED CLAY PIPE
VCP	STANDARD STRENGTH VITRIFIED CLAY PIPE
X-VCP	EXTRA STRENGTH VITRIFIED CLAY PIPE
RCCP	STANDARD STRENGTH REINFORCED CONCRETE CULVERT PIPE
X-RCCP	EXTRA STRENGTH REINFORCED CONCRETE CULVERT PIPE
=====	INDICATES STORM SEWER TO BE CONSTRUCTED UNDER UNIT I
-----	INDICATES EXISTING STORM SEWER CONSTRUCTED UNDER UNIT I
□	INDICATES TYPE A INLET MANHOLE
□	INDICATES TYPE B OR C INLET
ST-10	INDICATES GROUND SURFACE ELEVATION

NOTES:

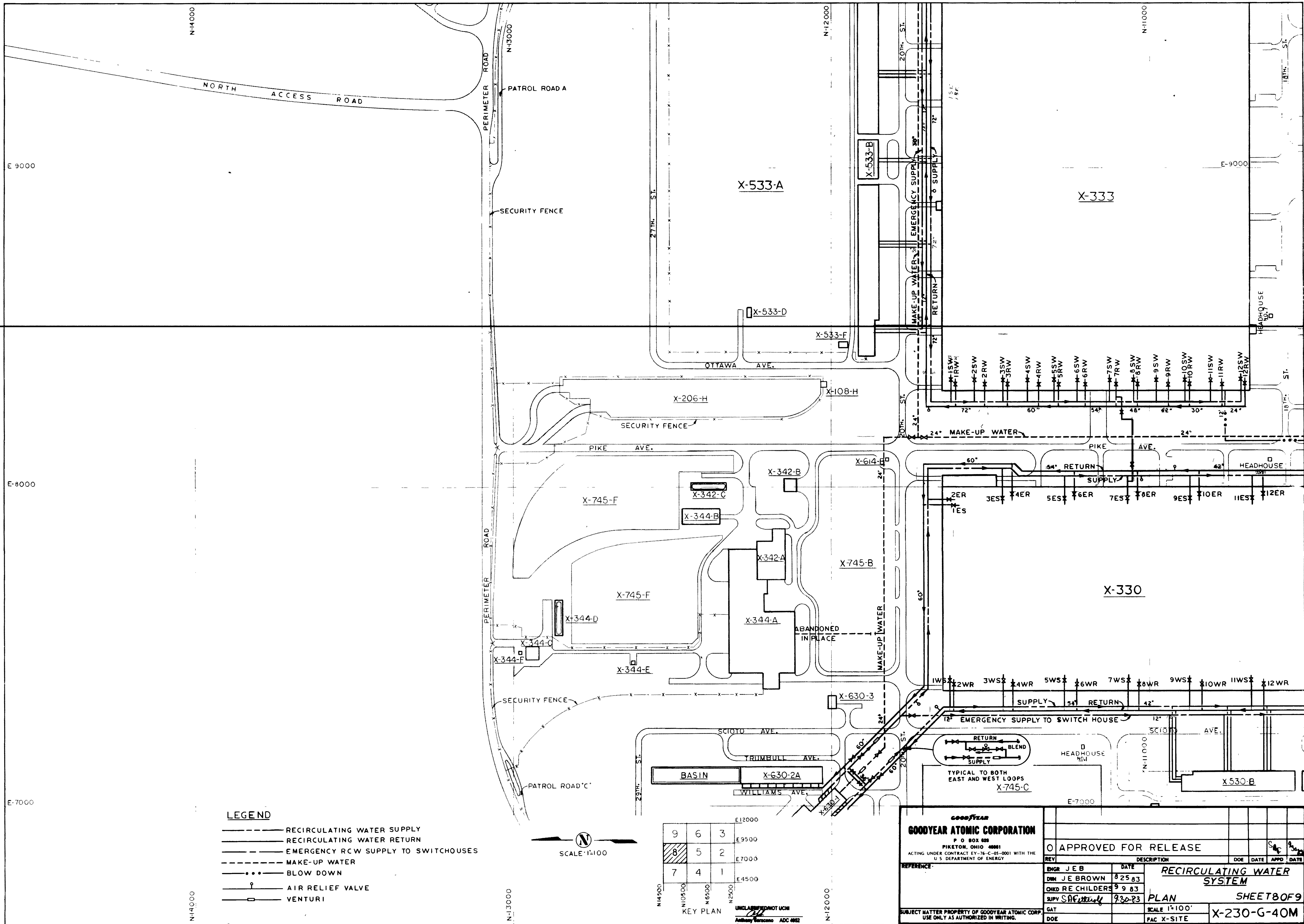
CONNECTIONS TO EXISTING STORM SEWERS TO BE MADE WITH CORRUGATED METAL SADDLE BRANCHES AS SHOWN ON DRAWING X-230-C - 21-C

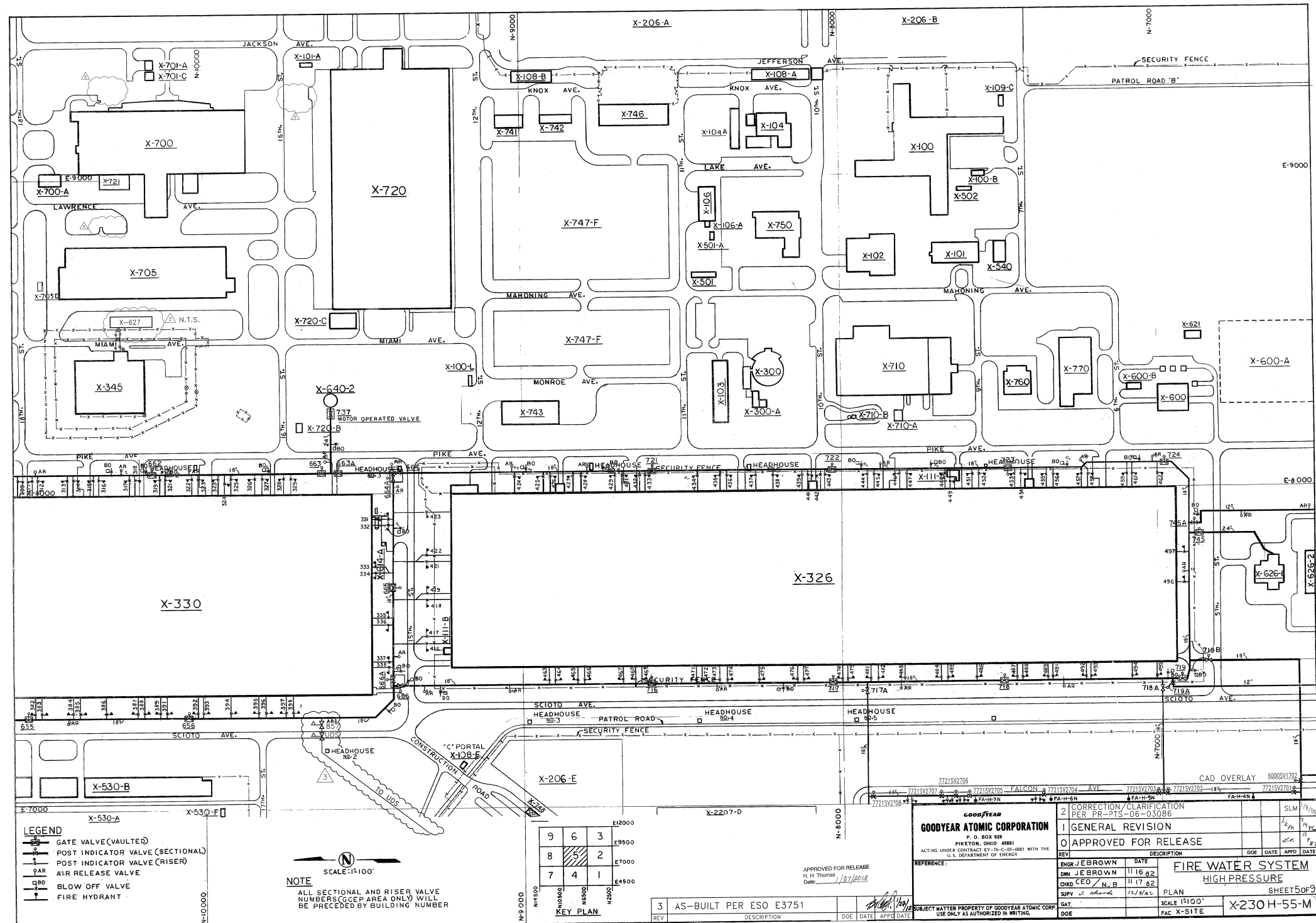
CONNECTIONS BETWEEN CAST IRON PIPE & CORRUGATED METAL PIPE TO BE MADE WITH A LEADED JOINT, OR WITH JOINT SIMILAR TO JOINT "A" OR "B"

CONNECTIONS BETWEEN CONCRETE OR CLAY PIPE AND CAST IRON OR CORRUGATED PIPE TO BE MADE WITH A MORTAR JOINT.

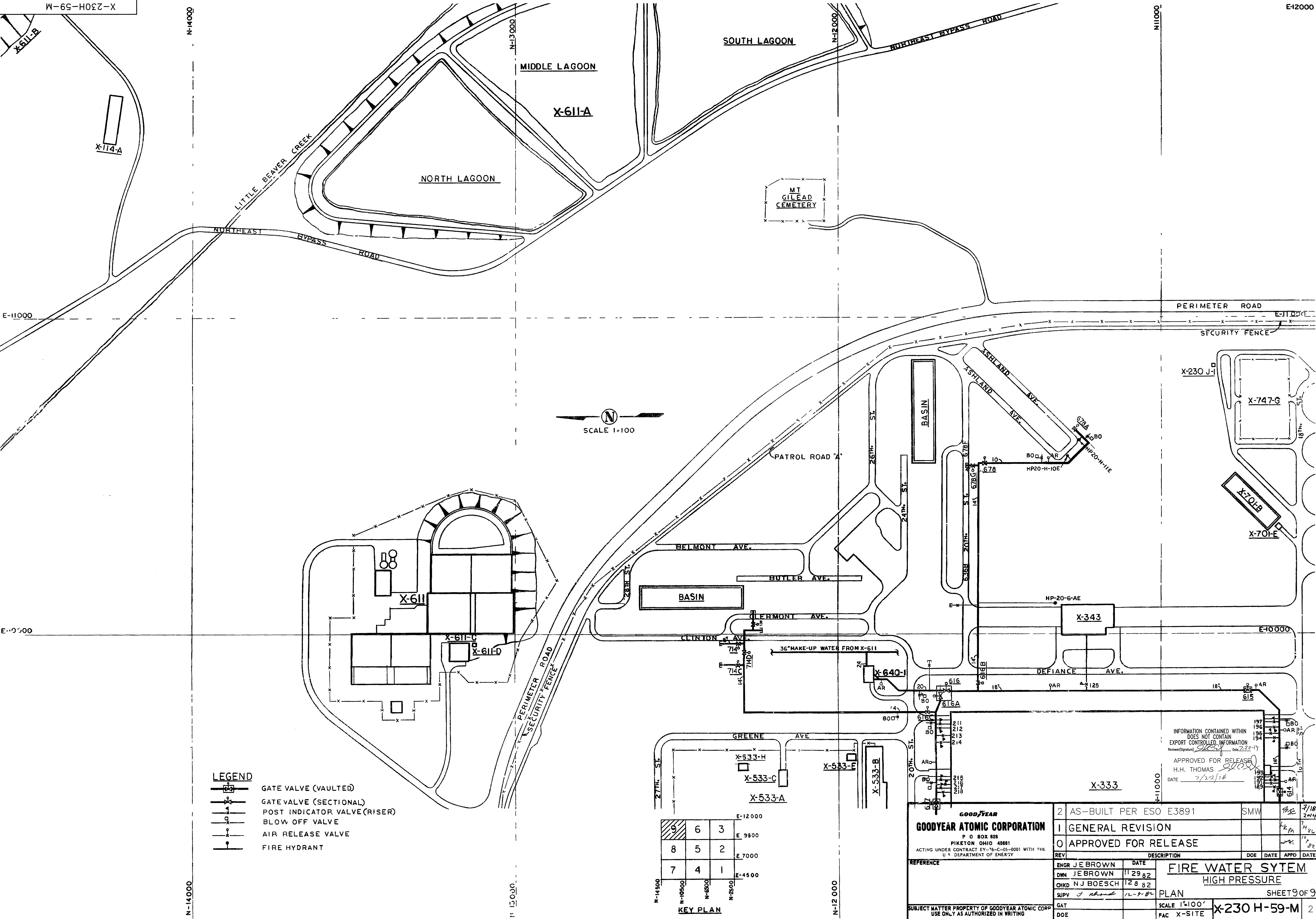
EXTRADIGS AND EMBANKMENTS ARE NOT MARKED ON THE PLANS BUT SHOULD BE USED WHERE NECESSARY TO MEET THE GRADE, ALIGNMENT, & JOINT REQUIREMENTS OF DRAWINGS X-230-A

AS BUILT AS REC'D FROM A E WAS REV. BY <u>DATED 12/2</u>				112	
REV NO		ISSUE PURPOSE		BY A.E.C. DATE	
UNITED STATES ATOMIC ENERGY COMMISSION A. M. KINNEY, INC. CONSULTING ENGINEERS CINCINNATI 19, OHIO A E C CONTRACT NO AT-(40-1)-1373					
STORM SEWERS - UNIT II DETAILS-SHEET I					
DRAWING APPROVED DATE		DRAWING APPROVED DATE		DRAWING APPROVED DATE	
<i>M. Bender</i> 6-4-53		M BENDER 6-4-53		H. C. HOOPER 7-10-53 A E C ENGINEER	
ARCHITECT BRUNNER		CHAS. B. CHAS. CHENOWETH CO		A E C ENGINEER	
DATE		DATE		DATE	
12/2/53 IN CHARGE <i>W. A. Dettle</i>		5-20-54 <i>M. Condit</i>		5-20-54 112	
DATE		DATE		DATE	
6-3-53		6-3-53		6-4-53	
PROJECT		BUILDING		SHEET	
X SITE PORTSMOUTH AREA		X-230 C		20-C	

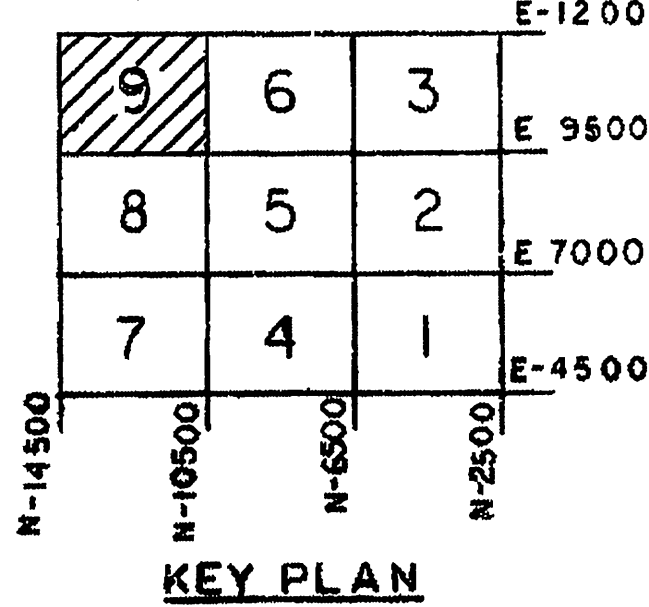




APPROVED FOR RELEASE
H.H. THOMAS *[Signature]*
DATE 7/22/14 7-22-14
INFORMATION CONTAINED WITHIN
DOES NOT CONTAIN
EXPORT CONTROLLED INFORMATION
Reviewer (Signature) *[Signature]* Date 7-22-14



- LEGEND**
- GATE VALVE (VAULTED)
 - GATE VALVE (SECTIONAL)
 - POST INDICATOR VALVE (RISER)
 - BLOW OFF VALVE
 - AIR RELEASE VALVE
 - FIRE HYDRANT



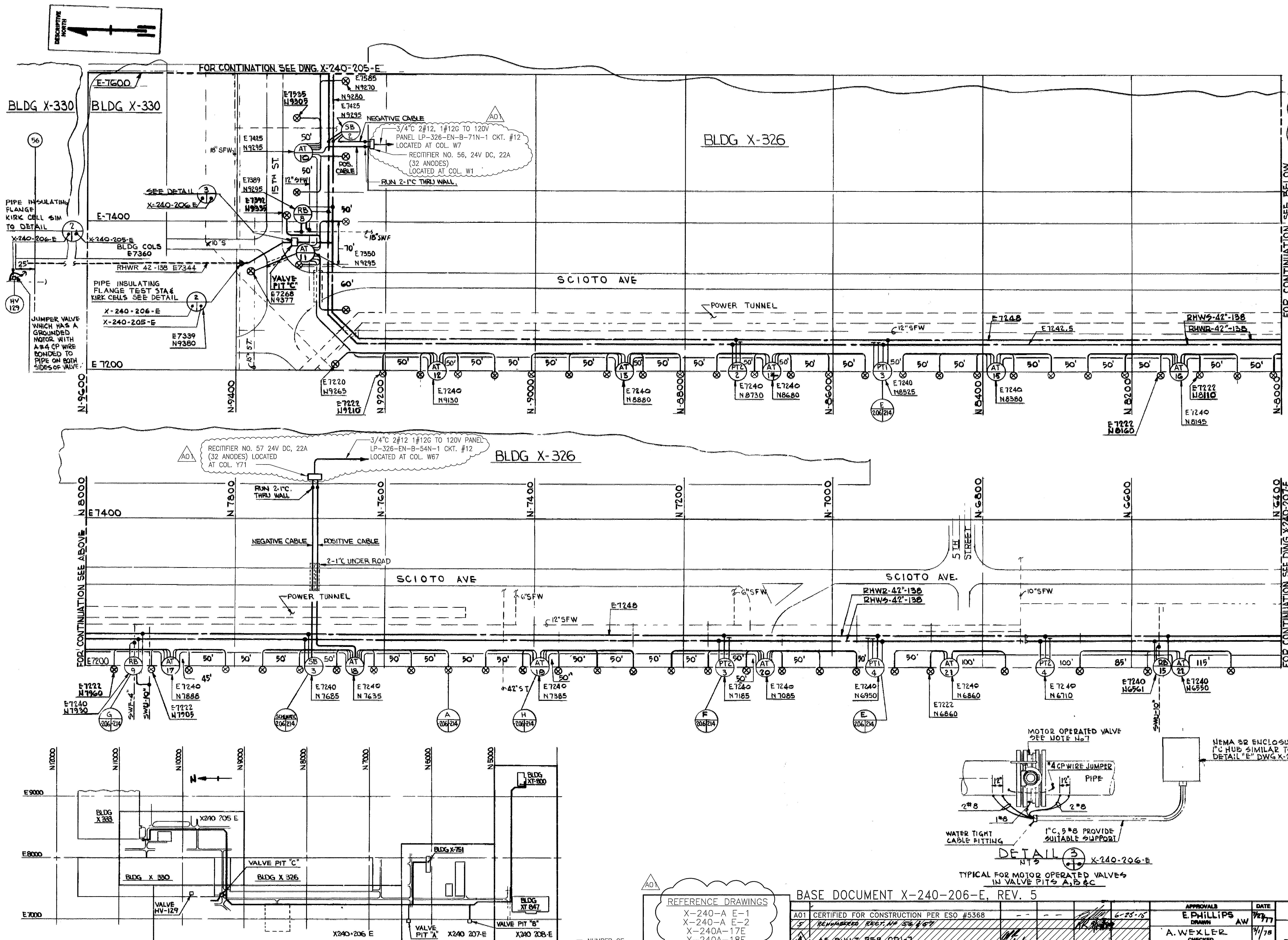
INFORMATION CONTAINED WITHIN
DOES NOT CONTAIN
EXPORT CONTROLLED INFORMATION
APPROVED FOR RELEASE
H.H. THOMAS
DATE 7/22/14

GOODYEAR		2	AS-BUILT PER ESO E3891	SMW	7/18/2014
GOODYEAR ATOMIC CORPORATION		1	GENERAL REVISION		7/18/2014
P.O. BOX 828 PIKETON OHIO 45861 ACTING UNDER CONTRACT EY-16-C-05-0001 WITH THE U.S. DEPARTMENT OF ENERGY		0	APPROVED FOR RELEASE		
REFERENCE		REV	DESCRIPTION	DOE	DATE
ENGR JEB BROWN		DATE	FIRE WATER SYTEM		
DMN JEB BROWN		11/29/82	HIGH PRESSURE		
CHKD NJ BOESCH		12/8/82	PLAN		
SUPV J. [Signature]		12-8-82	SHEET 9 OF 9		
GAT			SCALE 1"=100'	X-230 H-59-M	
DOE			FAC X-SITE	2	

1. ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH SPECIFICATION 16100.
2. WHEN EXCAVATING OR TRENCHING, CARE SHOULD BE TAKEN NOT TO DAMAGE EXISTING 500 MCM GROUND CABLE, LOCATED AT THE PERIMETER OF EACH BUILDING, APPROXIMATELY 10 FT. FROM BUILDING AND APPROXIMATELY 2 FT. BELOW GRADE ELEVATION.
3. COORDINATES SHOWN ARE APPROXIMATE CONTRACTOR SHALL CLEAR ALL OBSTRUCTIONS IN FIELD.
4. FOR ADDITIONAL NOTES & LEGEND SEE STANDARD DRAWINGS X-STD-1001-E AND X-240-214-E.
5. RECTIFIER UNITS SHALL BE WALL MOUNTED INSIDE BUILDINGS & PERMANENTLY LABELED INDICATING RECTIFIER NO., AC PANEL & CIRCUIT NO.
6. ALL CABLING SHALL BE SPICED AND TERMINATED IN THE VARIOUS TEST STATIONS ABOVE GROUND. NO SPICING SHALL BE PERMITTED UNDERGROUND. SUFFICIENT CABLE LENGTH TO REACH ANODE TEST STATIONS FROM ANODES SHALL BE PURCHASED WITH AND ATTACHED TO ANODE.
7. IN THE VALVE PITS PROVIDE 2 #8 WIRES 12 INCHES APART, THERMIT WELDED TO THE PIPING ON EITHER SIDE OF EACH MOTOR OPERATED VALVE. ALSO PROVIDE 1 #8 WIRE THERMIT WELDED TO EACH M.O. VALVE. EACH SET OF 5 WIRES SHALL BE TERMINATED IN A SUITABLE HOFFMAN TYPE 3R BOX ON THE PIT WALL NEAR THE ENTRANCE LADDER. A #4 CP WIRE SHALL BE USED AS A JUMPER AROUND THE M.O. VALVES. BOND TO PIPE BOTH SIDES OF VALVE. SEE DETAIL 3 THIS DWG.

LEGEND

- UNDERGROUND PIPE } RHW
 --- EXPOSED PIPE
 --- EXISTING OR NEW PIPE
- AT ANODE TEST STATION - NO 1
 PT1 PIPE TEST STATION TYPE 1 - NO 1
 PT2 PIPE TEST STATION TYPE 2 - NO 1
 SB SPLICE BOX NO 1
 RB RESISTANCE BOND TEST STATION - NO 1
 CT CASING TEST STATION - NO 1



REFERENCE DRAWINGS

X-240-A E-1
 X-240-A E-2
 X-240A-17E
 X-240A-18E
 X-240A-115E

OPEN CHANGES

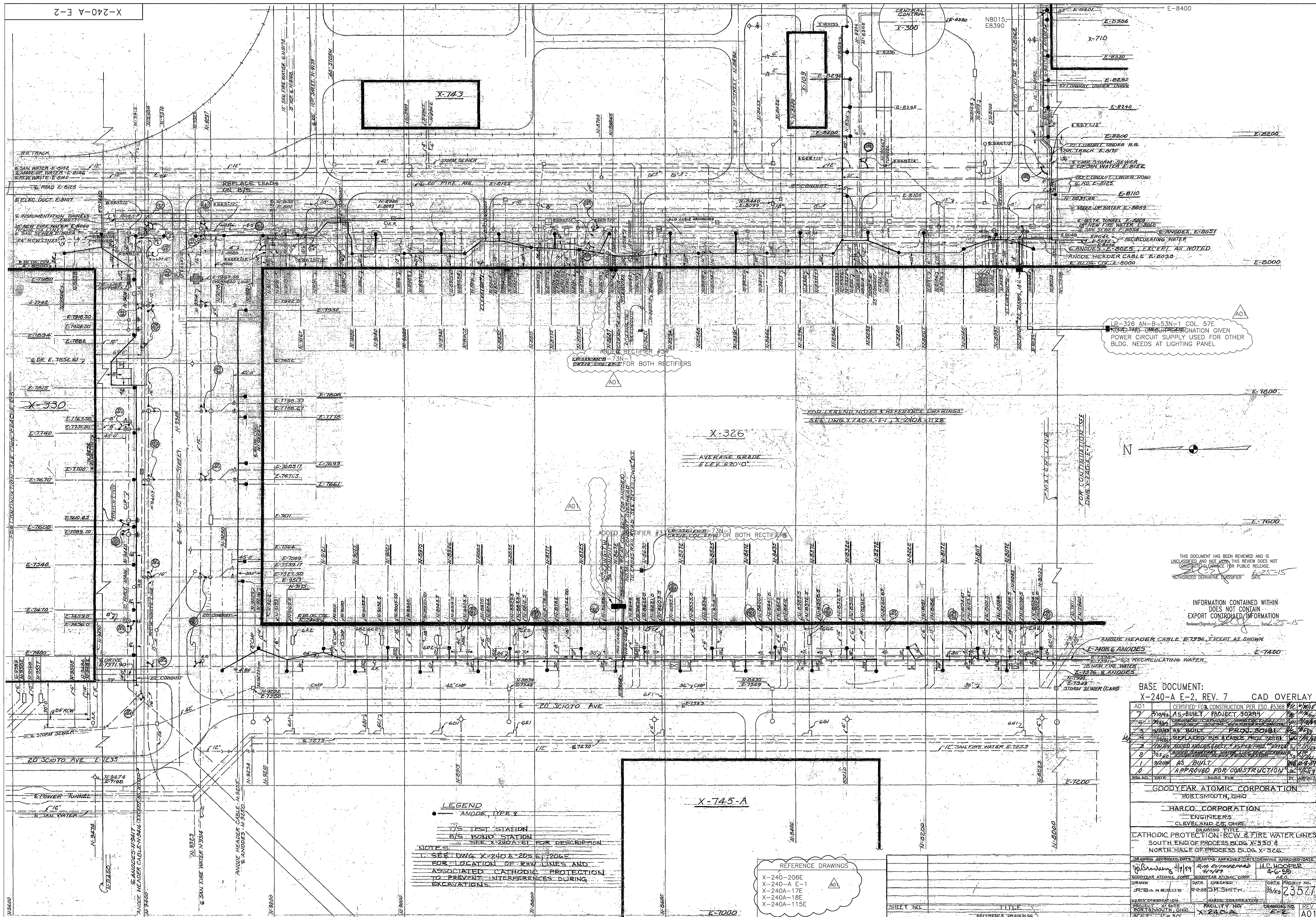
BASE DOCUMENT X-240-206-E, REV. 5

REV	DESCRIPTION	DATE	APPROVALS	DATE	UNITED STATES DEPARTMENT OF ENERGY
A01	CERTIFIED FOR CONSTRUCTION PER ESO #5368	6-25-78	E. PHILLIPS	7/27/77	CATALYTIC, INC.
5	REMOVED RECT. NO. 56 & 57	8/1/78	A. WEXLER	9/1/78	PHILADELPHIA, PENNSYLVANIA
4	AS BUILT PER CP-1	8/1/78	CHIEF	9/1/78	CATALYTIC, INC. CONTRACT NO. 428032
3	ADDED DETAIL 3 & DETAILS FOR HV-129 REVISOR DETAIL 1 NOTE & PIPE LOCATION IN KEY PLAN. ALSO REVISED NOTE NO. 7	8/1/78	D. HANCOCK	8/1/78	PROJECT GAS CENTRIFUGE ENRICHMENT PLANT
2	REVISED KEY PLAN DELETED VALVE PIT A FROM THIS DRAWING. ADDED TEST STATION AT PIT C.	8/1/78	A. P. HANCOCK	8/1/78	SUBPROJECT R.H.W. SYSTEM (909)
1	ADDED TEST STATIONS, CHANGED KEY SEE RELEVANT ANODE LEADS, ADDED NOTE 6 & 7 TO LEGEND	8/1/78	M. I. LUNDIN	8/1/78	TITLE ELECTRICAL
0	CERTIFIED FOR CONSTRUCTION	8/1/78	DOE ENGINEER	8/1/78	PLAN CATHODIC PROTECTION SH 2
REV	REVISION OR ISSUE PURPOSE	AE	OCPO	SCALE 1"=50'-0"	CLASS U
					REV. A01

THIS DOCUMENT HAS BEEN REVIEWED AND IS UNCLASSIFIED AND NOT UNDER THIS REVIEW DOES NOT CONTAIN EXPORT CONTROLLED INFORMATION

INFORMATION CONTAINED WITHIN DOES NOT CONTAIN EXPORT CONTROLLED INFORMATION

CAD OVERLAY



THIS DOCUMENT HAS BEEN REVIEWED AND IS UNCLASSIFIED AND NOT FOR PUBLIC RELEASE. AUTHORIZED DERIVATIVE CLASSIFIER DATE 2-25-15

INFORMATION CONTAINED WITHIN DOES NOT CONTAIN EXPORT CONTROLLED INFORMATION (Releaser/Signature) Date 2-25-15

BASE DOCUMENT: X-240-A E-2, REV. 7 CAD OVERLAY

7	11/19/15	AS-BUILT	PROJECT 30294	11/19/15
6	11/19/15	REPLACED E/S SCALE FROM 30181	11/19/15	11/19/15
5	11/19/15	ADDED ANODES E/S AS-BUILT	11/19/15	11/19/15
4	11/19/15	ADDED ANODES E/S AS-BUILT	11/19/15	11/19/15
3	11/19/15	ADDED ANODES E/S AS-BUILT	11/19/15	11/19/15
2	11/19/15	ADDED ANODES E/S AS-BUILT	11/19/15	11/19/15
1	11/19/15	AS-BUILT	11/19/15	11/19/15
0	11/19/15	APPROVED FOR CONSTRUCTION	11/19/15	11/19/15

GOODYEAR ATOMIC CORPORATION
PORTSMOUTH, OHIO

HARCO CORPORATION
CLEVELAND, OHIO

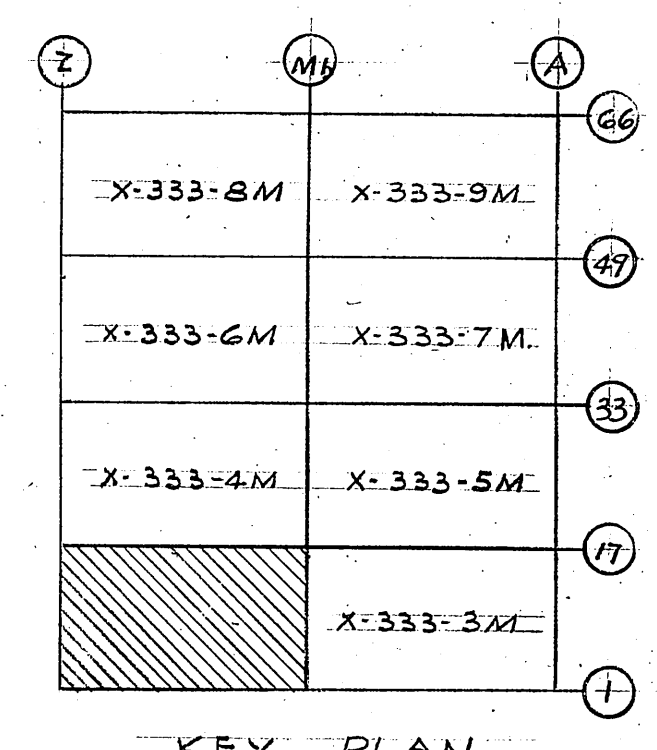
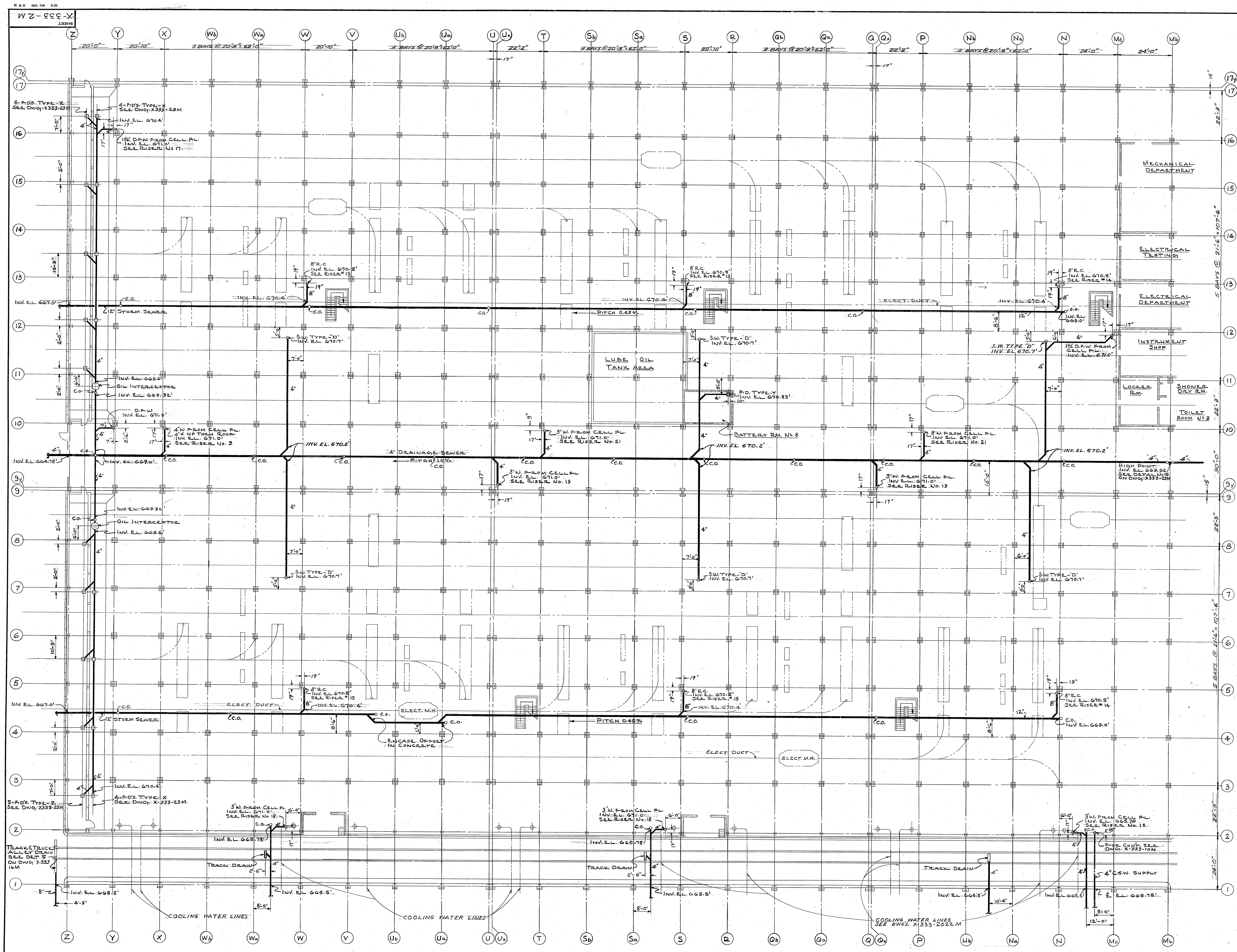
CATHODIC PROTECTION: ROW 4 FIRE WATER LINES
SOUTH END OF PROCESS BLDG. X-330.4
NORTH END OF PROCESS BLDG. X-326

DRAWING TITLE
DRAWING APPROVED DATE
DRAWING APPROVED DATE
DRAWING APPROVED DATE

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DRAWING APPROVED DATE



UNCLASSIFIED/NOT UCN
Charles Crabtree ADC 4148
Review Date: 3/14/2000
SEQUENCE NO. 6923

REVIEWED FOR CLASSIFICATION
UNCLASSIFIED
Date: APR 30 1974
By: S. A. Thomas, Technical Writer

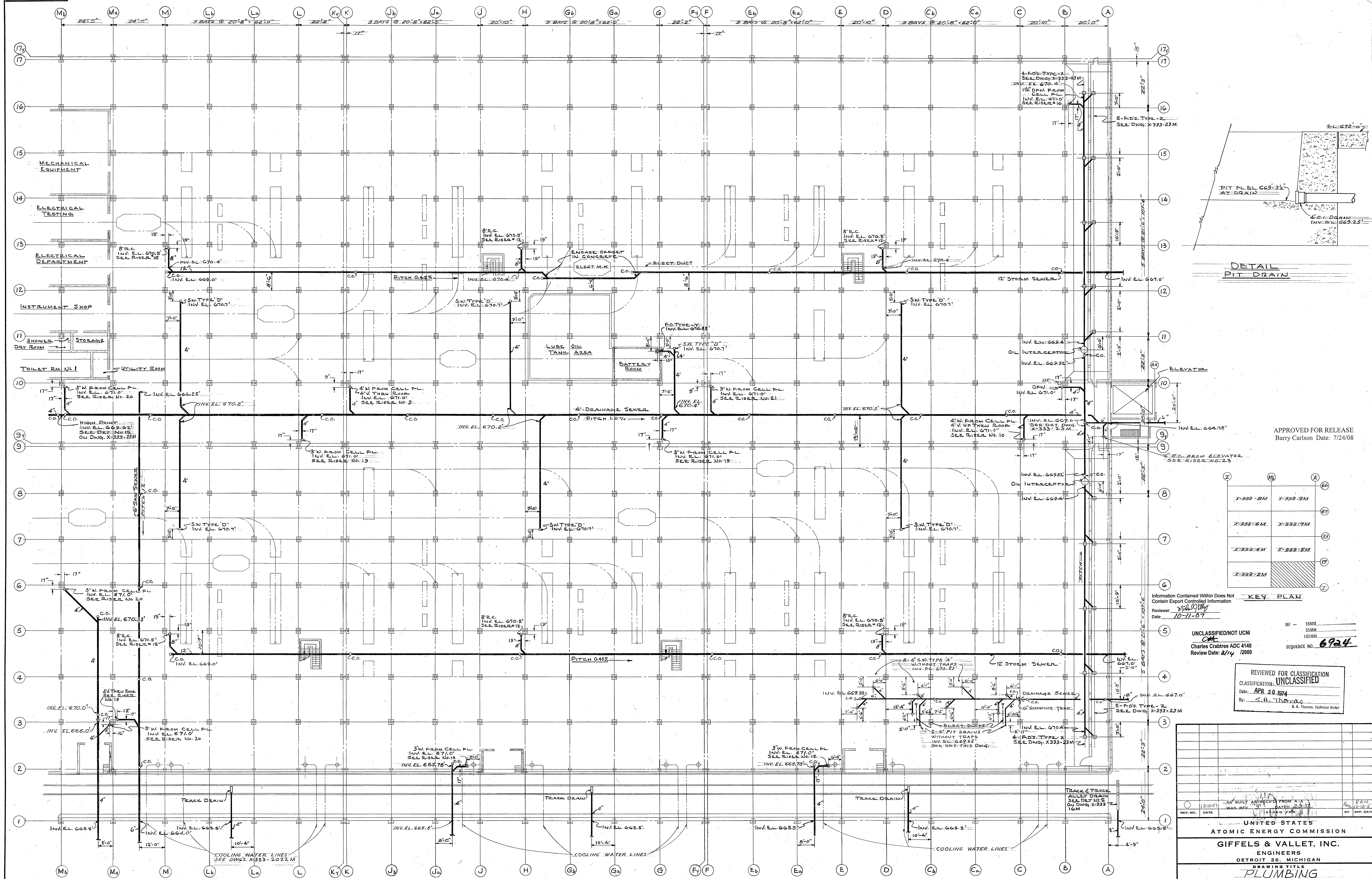
UNITED STATES ATOMIC ENERGY COMMISSION		
GIFFELS & VALLET, INC. ENGINEERS DETROIT 26, MICHIGAN		
DRAWING TITLE PLUMBING UNDERGROUND DRAINAGE		
DRAWING APPROVED - DATE C. J. Steigler 7-15-53	DRAWING APPROVED - DATE R. A. WALKER 9-25-53	DRAWING APPROVED - DATE R. B. SOMERS 9-28-53
DESIGNED BY A. J. MANN	CHECKED BY J. H. MANN	DATE 7-23-53
PROJECT PORTSMOUTH AREA		
JOB 51-163X		
SHEET X-333-2M		

GROUND FLOOR PLAN
SCALE 1/8" = 1'-0"
GROUND FLOOR ELEVATION - 672'-0"

APPROVED FOR RELEASE
Barry Carlson Date: 7/24/08

Information Contained Within Does Not
Contain Export Controlled Information
Reviewer: [Signature]
Date: 10-11-07

DRAWING APPROVED - DATE	DRAWING APPROVED - DATE	DRAWING APPROVED - DATE
C. J. Steigler 7-15-53	R. A. WALKER 9-25-53	R. B. SOMERS 9-28-53
DESIGNED BY A. J. MANN	CHECKED BY J. H. MANN	DATE 7-23-53
PROJECT PORTSMOUTH AREA		
JOB 51-163X		
SHEET X-333-2M		

DETAIL
PIT DRAINAPPROVED FOR RELEASE
Barry Carlson Date: 7/24/08

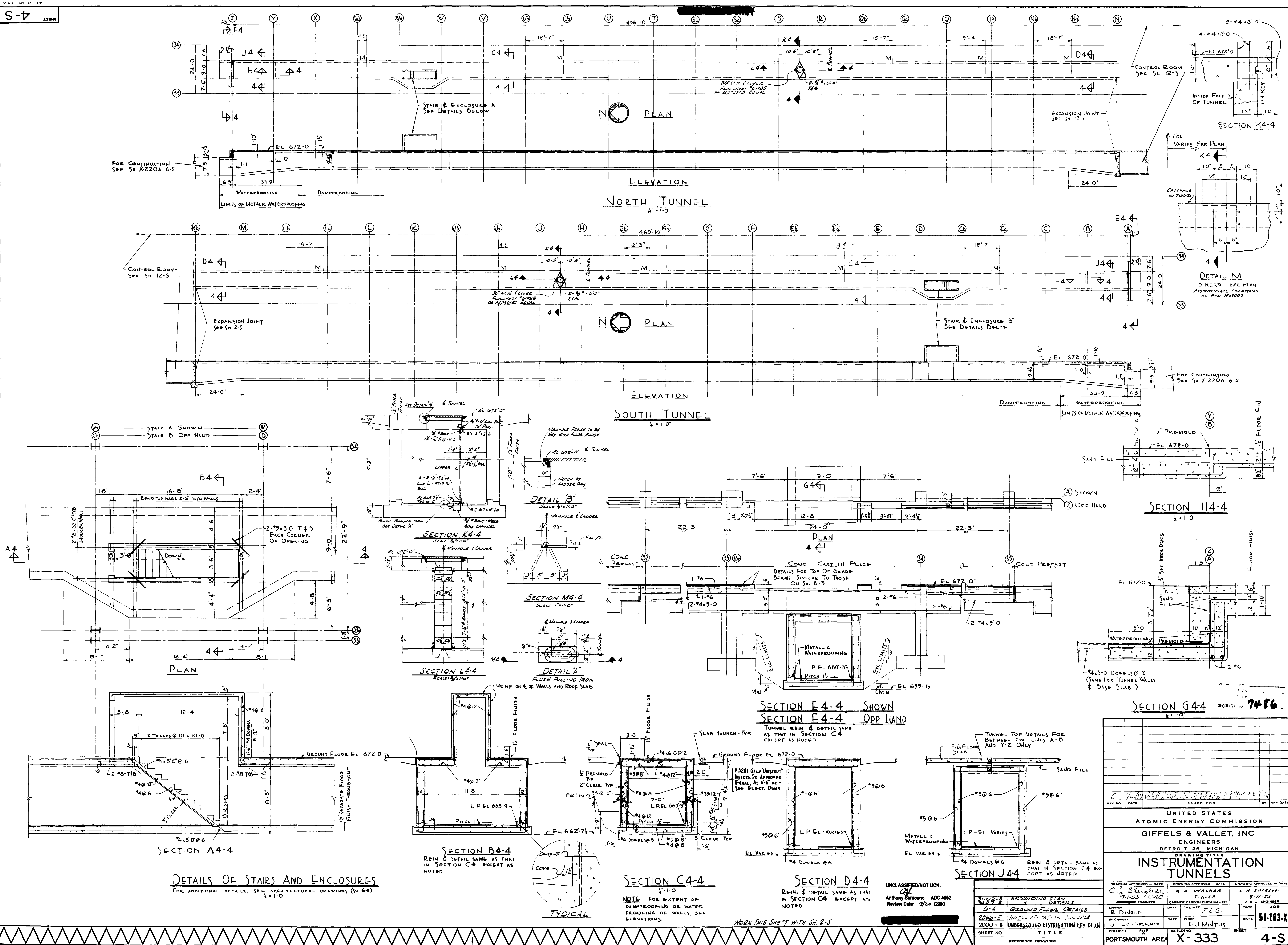
X-333-2M	X-333-3M
X-333-6M	X-333-7M
X-333-4M	X-333-5M
X-333-2M	

KEY PLAN

Information Contained Within Does Not
Contain Export Controlled InformationReviewer: *[Signature]*
Date: 10-11-07UNCLASSIFIED/NOT UCN
Charles Crabtree ADC 4148
Review Date: 8/14/2000REVIEWED FOR CLASSIFICATION
CLASSIFICATION: UNCLASSIFIED
Date: APR 30 1974
By: S.A. Thomas, Technical WriterGROUND FLOOR PLAN
SCALE 1/16"=1'-0"
GROUND FLOOR ELEVATION 672'-0"

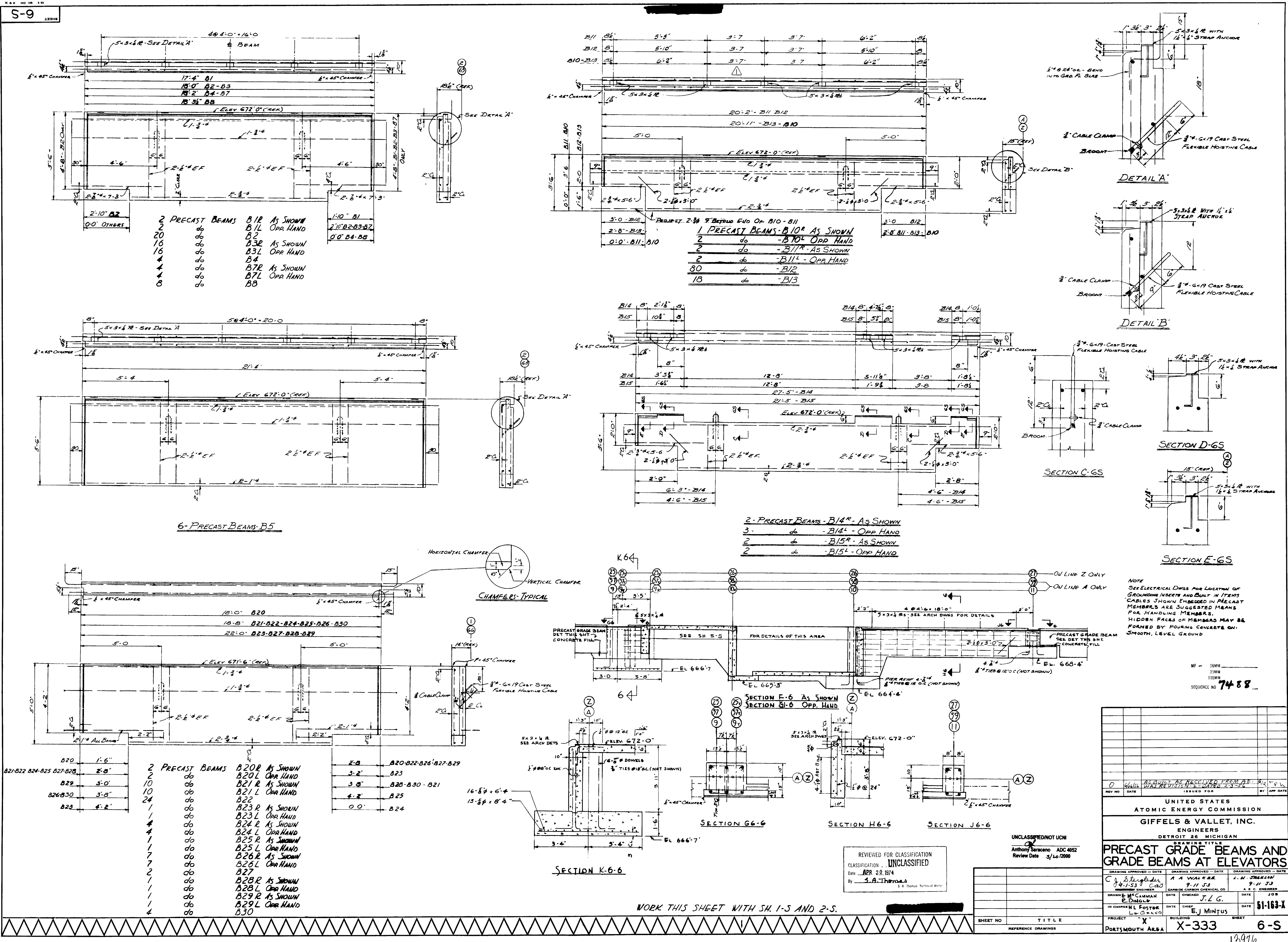
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C. J. Stigler 9-15-53 ENGINEER	R. A. WALKER 9-25-53 ENGINEER	R. B. SOMERS 9-28-53 ENGINEER
DRAWN A. J. MANN 6-4-51	CHECKED G. A. SH 6-4-51	DATE 9-25-53
IN CHARGE S. A. Thomas 8-14-53	DATE 8-14-53	DATE 8-14-53
PROJECT - "X"	TITLE BUILDING	SHEET 51-163X
PORTSMOUTH AREA	X-333	- 3M

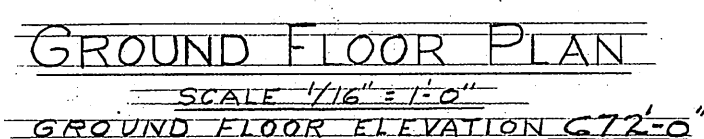
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UNITED STATES ATOMIC ENERGY COMMISSION			
GIFFELS & VALLET, INC. ENGINEERS DETROIT 26, MICHIGAN			
DRAWING TITLE INSTRUMENT TUNNELS			
DRAWING APPROVED - DATE C. A. BURGESS 9-1-53	DRAWING APPROVED - DATE A. A. WALKER 7-11-53	DRAWING APPROVED - DATE L. H. JACKSON 7-11-53	DRAWING APPROVED - DATE J. L. G. 7-11-53
DRAWN R. DINGLE	CHECKED J. L. G.	DATE 7-11-53	JOB 51-163-X
IN CHARGE J. L. G.	DATE 7-11-53	DATE 7-11-53	DATE 7-11-53
PROJECT PORTSMOUTH AREA	BUILDING X-333	SHEET 4-S	

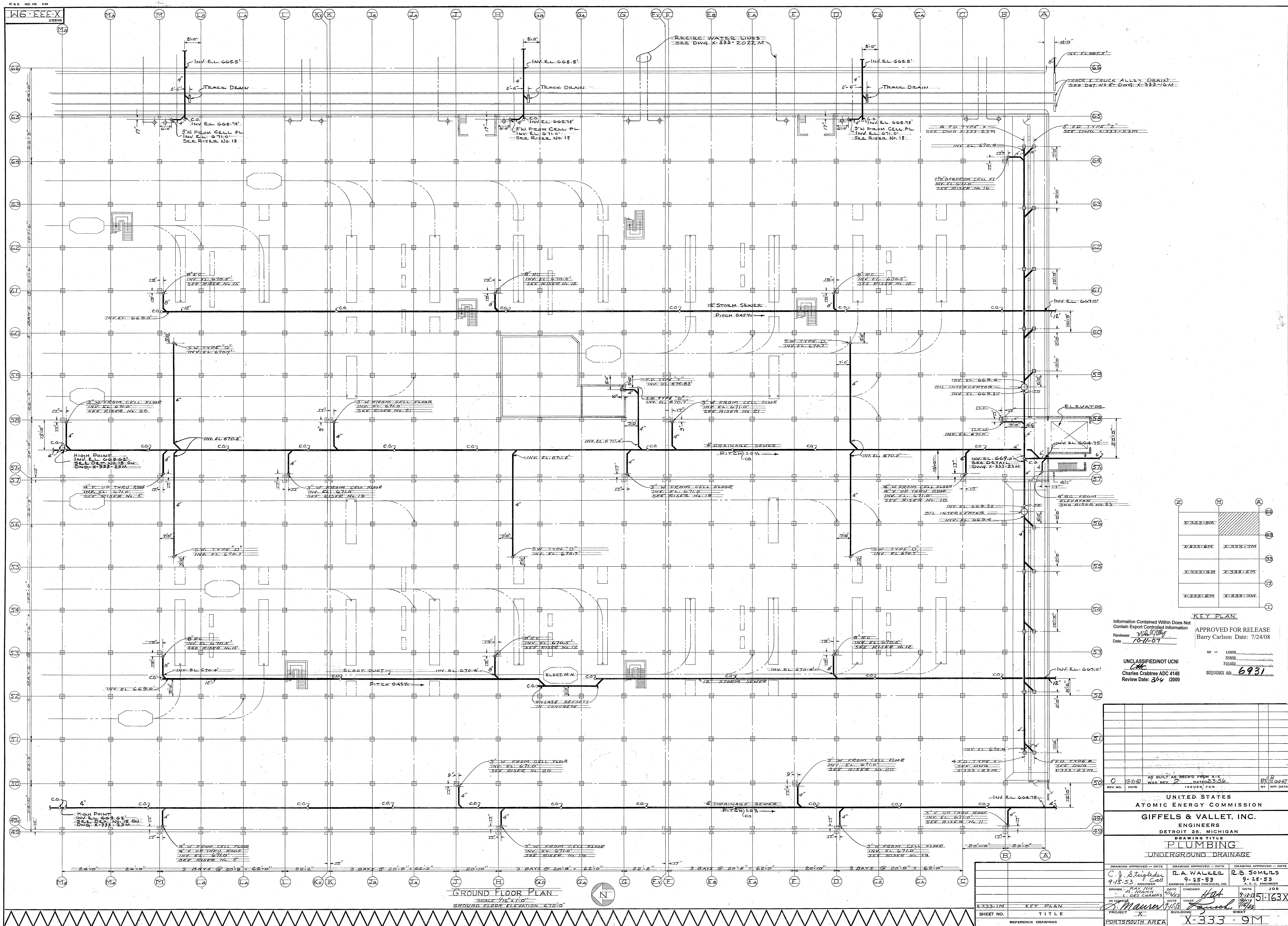






16MM
35MM
105MM
SEQUENCE NO. 6930

12896



KEY PLAN

X-333-2M	X-333-7M
X-333-6M	X-333-7M
X-333-4M	X-333-5M
X-333-2M	X-333-3M

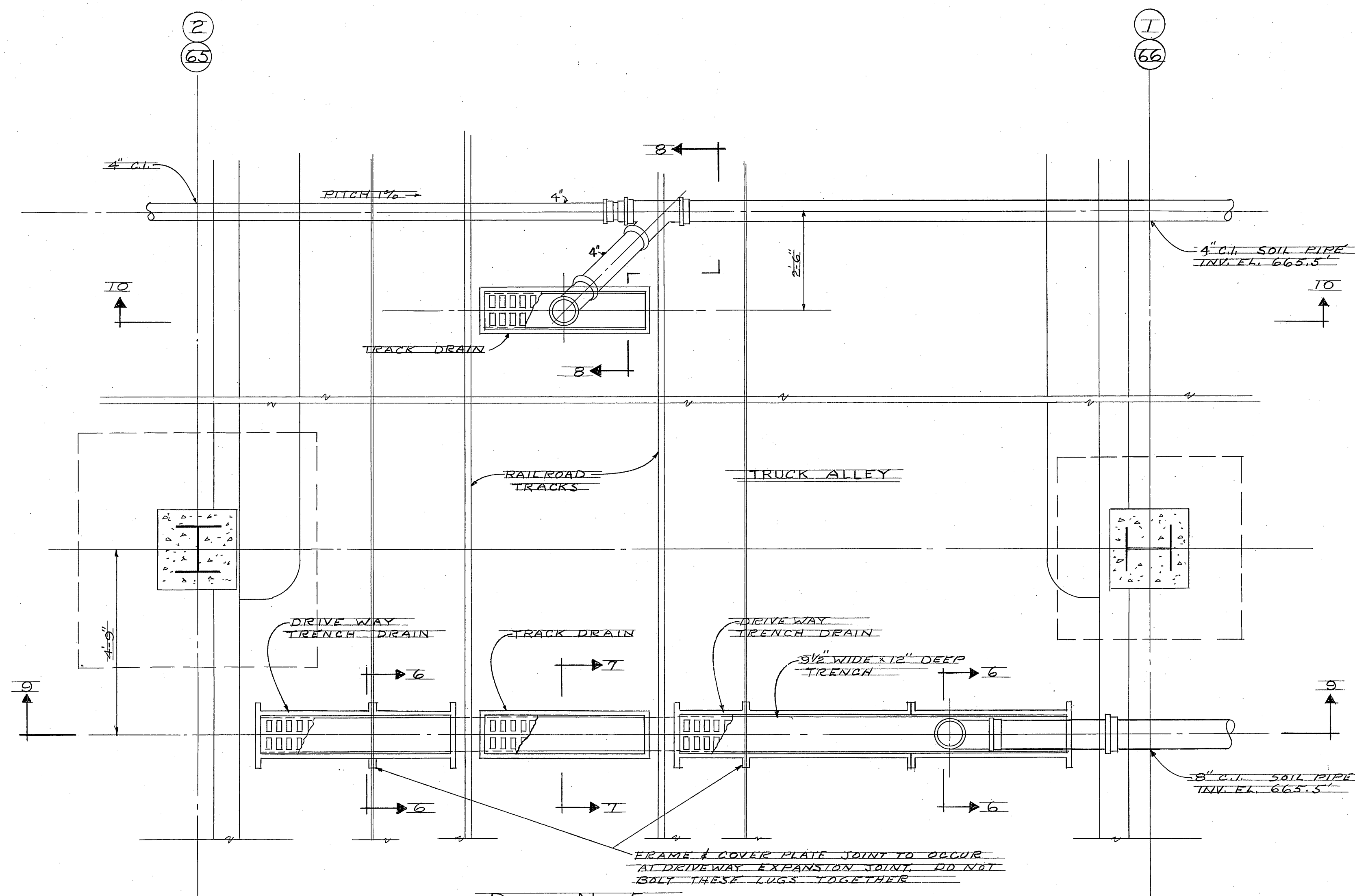
Information Contained Within Does Not Contain Export Controlled Information
Reviewed: *[Signature]*
Date: 10-11-07

APPROVED FOR RELEASE
Barry Carlson Date: 7/24/08

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Charles Crabtree ADC 4148
Review Date: 3/4 /2000

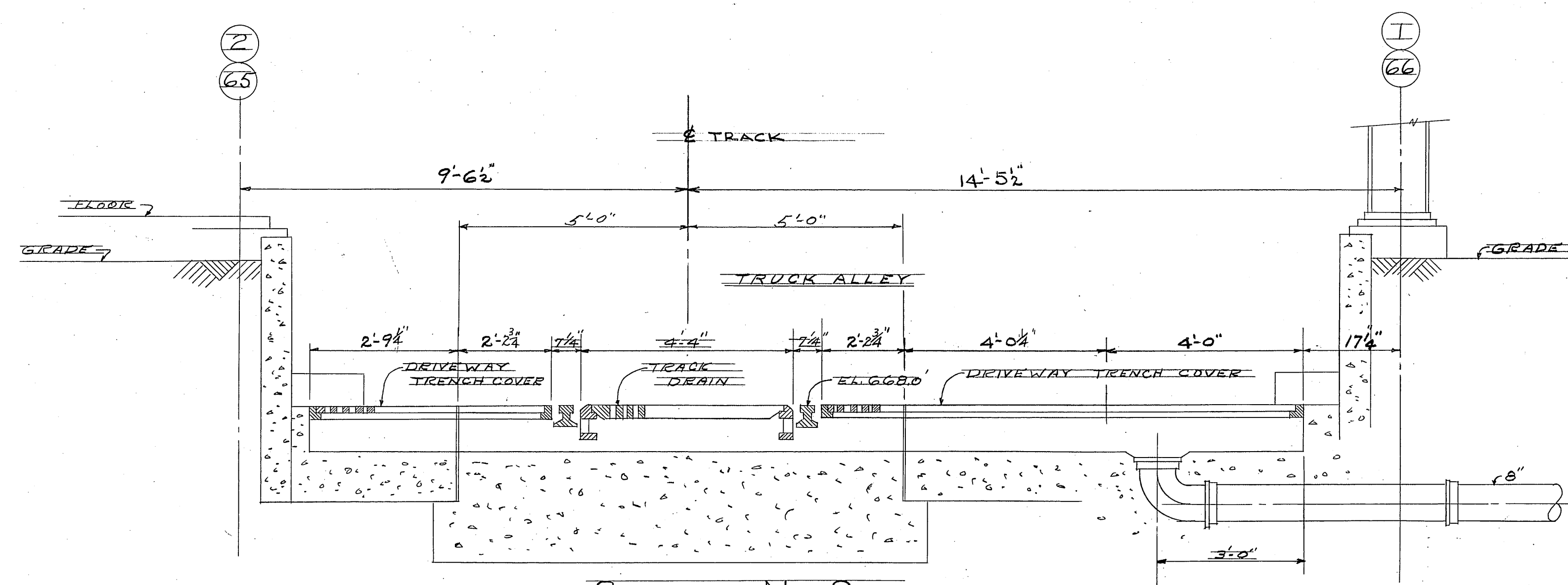
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UNITED STATES ATOMIC ENERGY COMMISSION	
GIFELS & VALLET, INC. ENGINEERS DETROIT 26, MICHIGAN	
DRAWING TITLE PLUMBING UNDERGROUND DRAINAGE	
DRAWING APPROVED - DATE C. J. Stuyk 9-15-53	DRAWING APPROVED - DATE R. A. WALKER 9-25-53
DESIGNED BY RAY NIX L. DES CHAMPS	CHECKED BY H. H. H. H.
IN CHARGE J. MAURER	DATE 9/15/53
PROJECT PORTSMOUTH AREA	
TITLE X-333-9M	



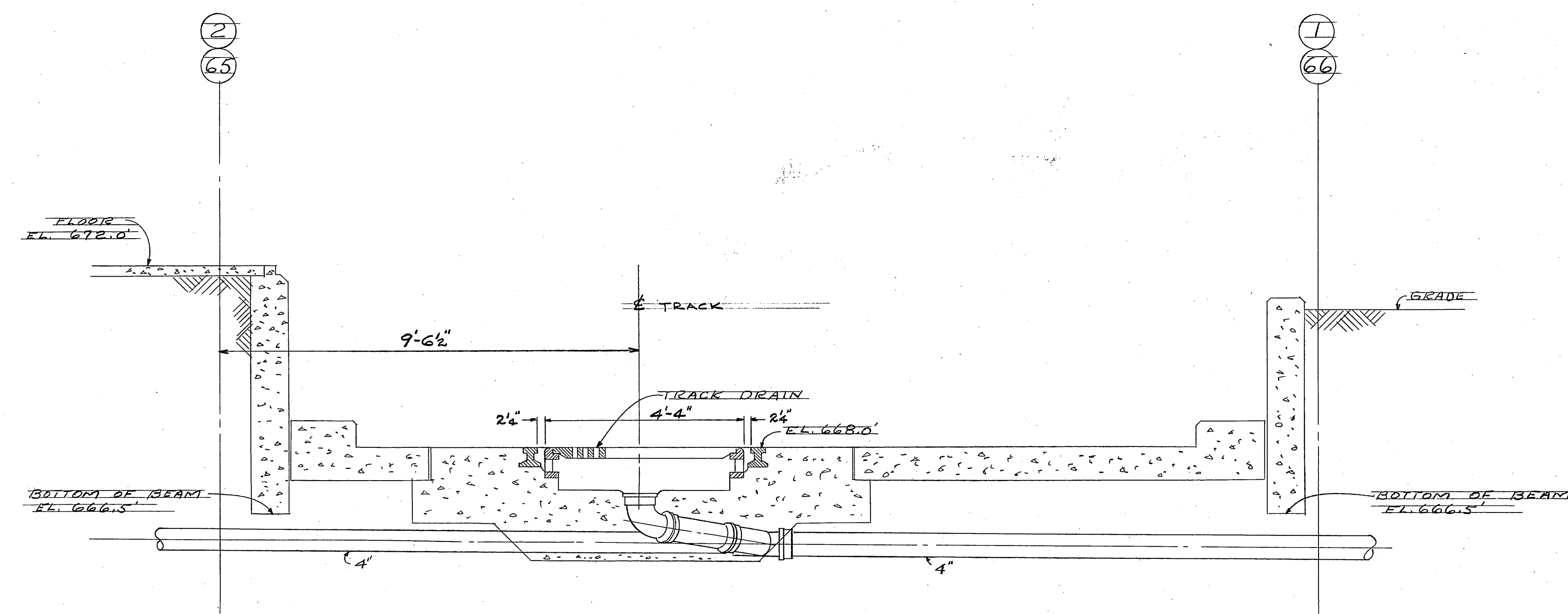
DETAIL No. 5
TRACK AND TRENCH DRAINS

SCALE 1/8" = 1'-0"
FOR PLAN LOCATIONS SEE DRAWING
Nos. X-333-2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100



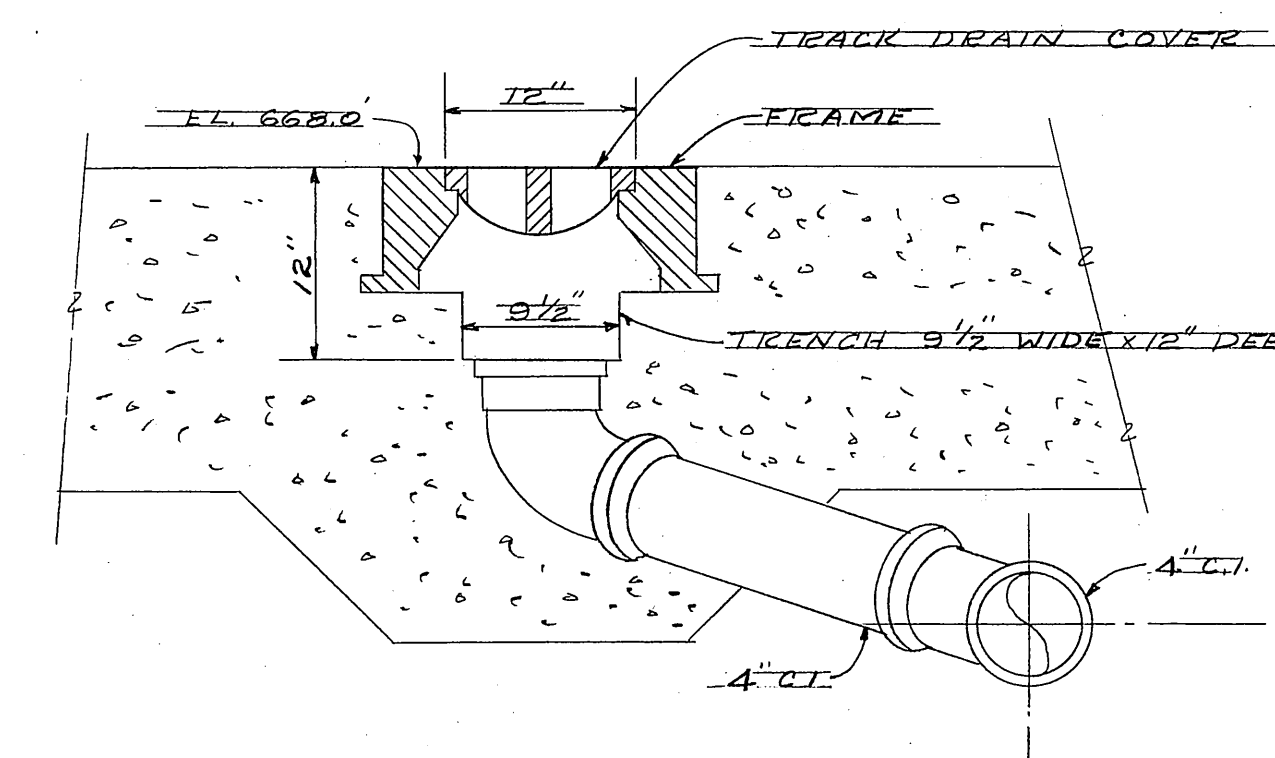
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SCALE 1/2" = 1'-0"



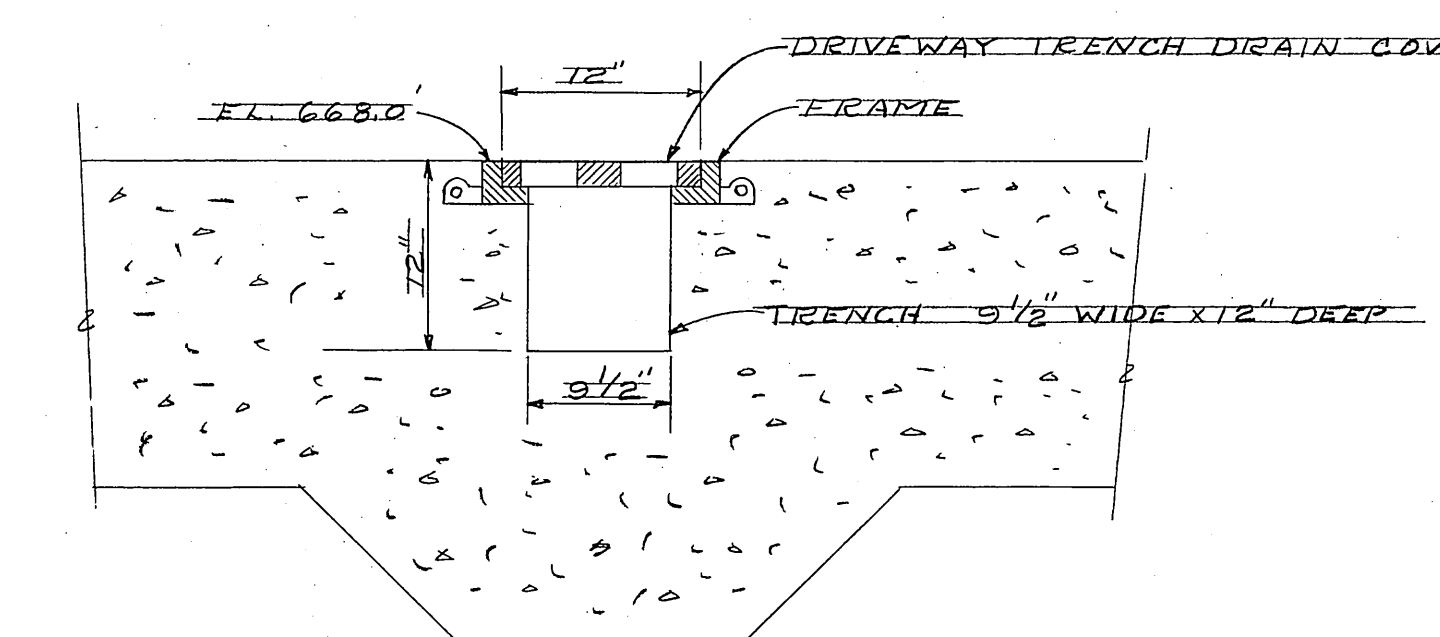
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SCALE 1/2" = 1'-0"
TYPICAL THRU ALL TRACK DRAINS WITHIN THE BUILDING



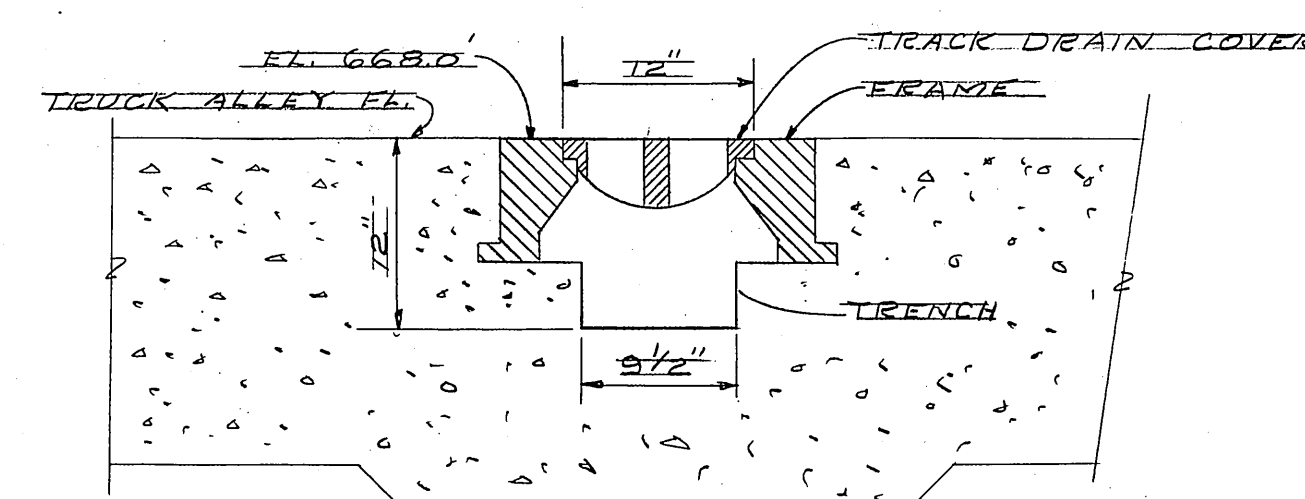
SECTION No. 8

SCALE 1/2" = 1'-0"
TYPICAL FOR ALL TRACK DRAINS WITHIN THE BUILDING



SECTION No. 6

SCALE 1/2" = 1'-0"
TYPICAL FOR ALL DRIVEWAY TRENCH DRAINS



SECTION No. 7

SCALE 1/2" = 1'-0"
TYPICAL FOR ALL TRACK DRAINS OUTSIDE THE BUILDING

MF - 15MM
35MM
105MM
SEQUENCE NO. 6938

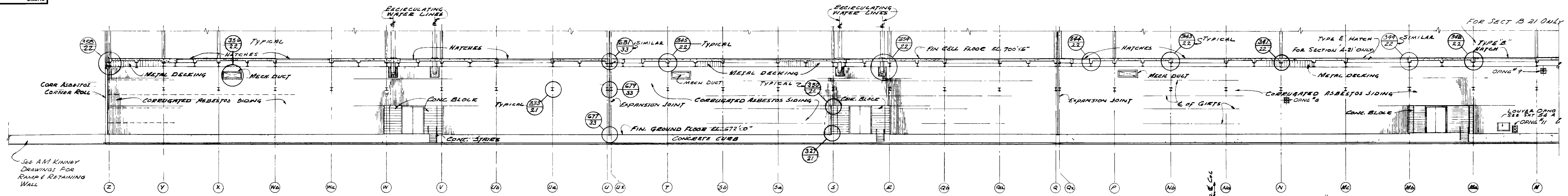
REVIEWED FOR CLASSIFICATION
CLASSIFICATION UNCLASSIFIED
DATE APR 30 1974
BY S.A. Thomas
S. A. Thomas, Technical Writer

APPROVED FOR RELEASE
Barry Carlson Date: 7/24/08

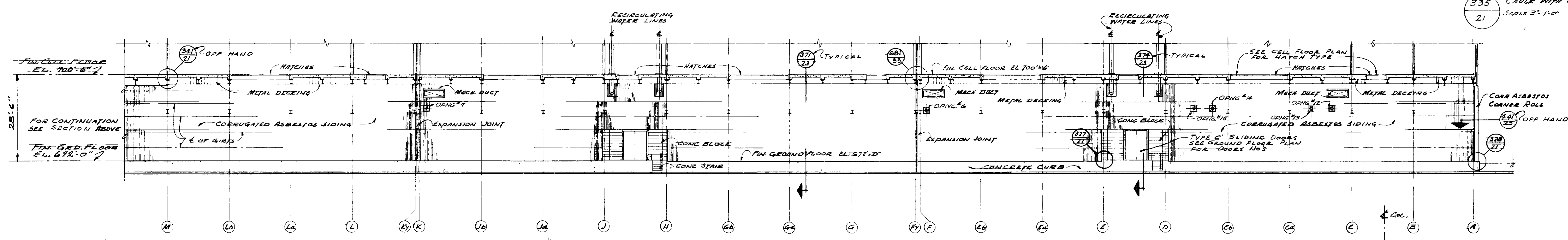
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Reviewer: [Signature]
Date: 10-11-07

UNCLASSIFIED/NOT UCN
Charles Crabtree ADC 4148
Review Date: 3/14/2000

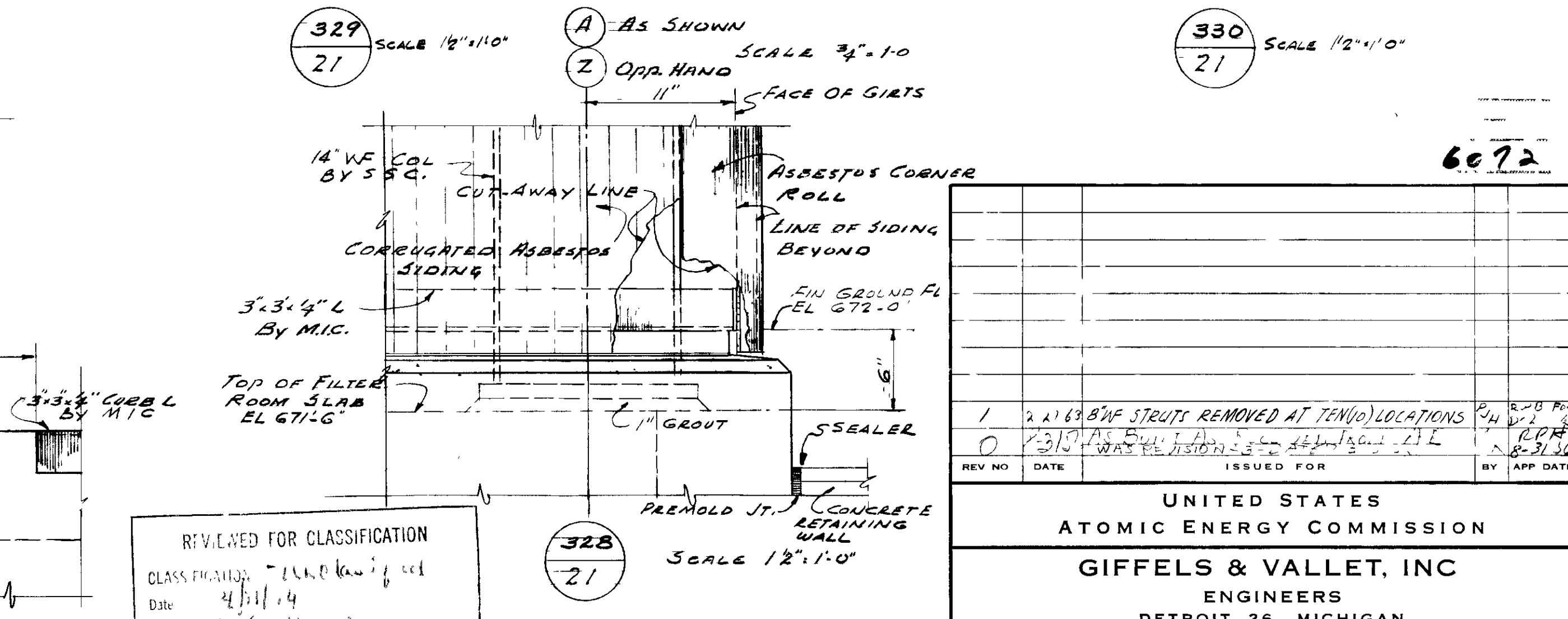
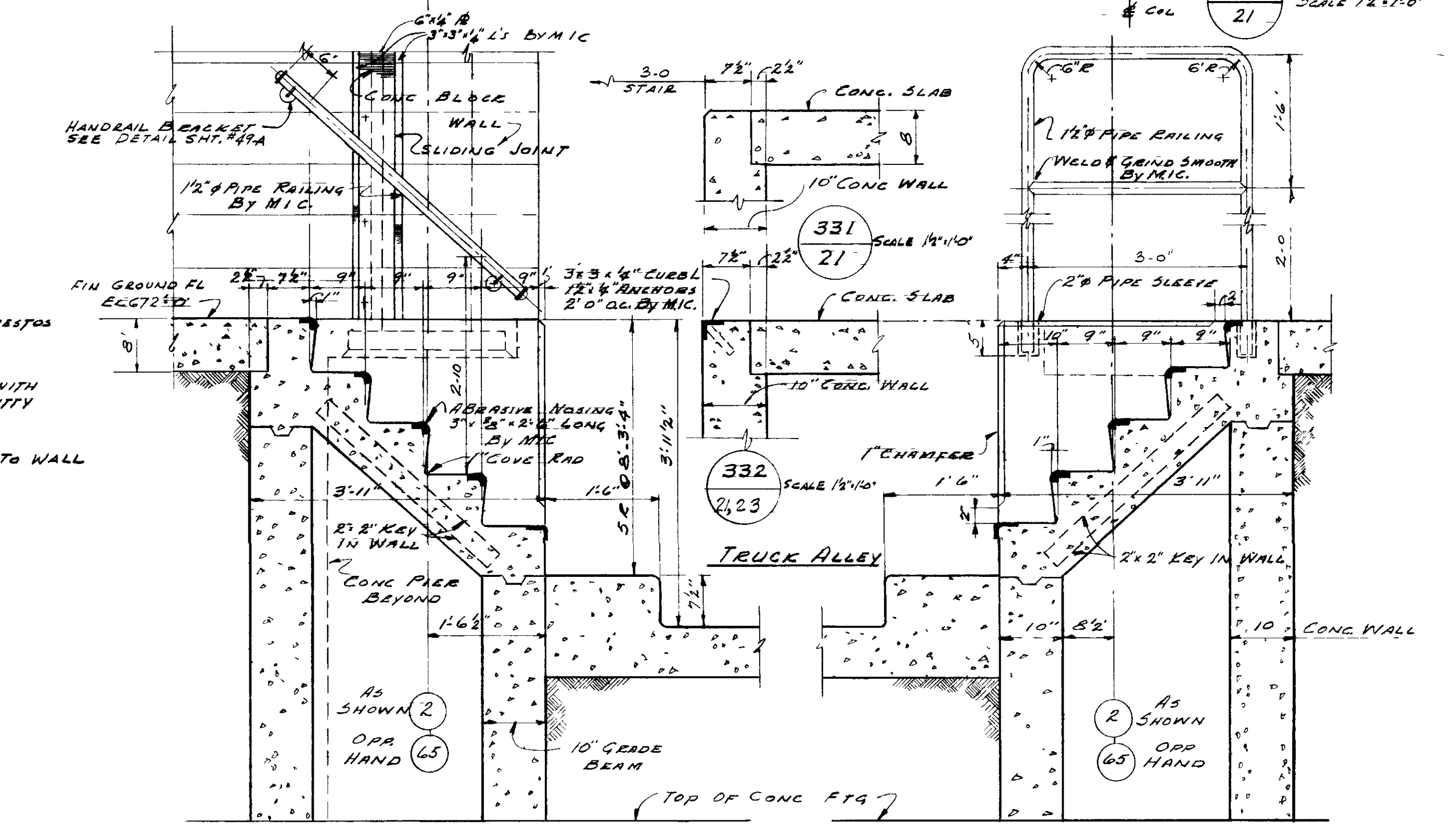
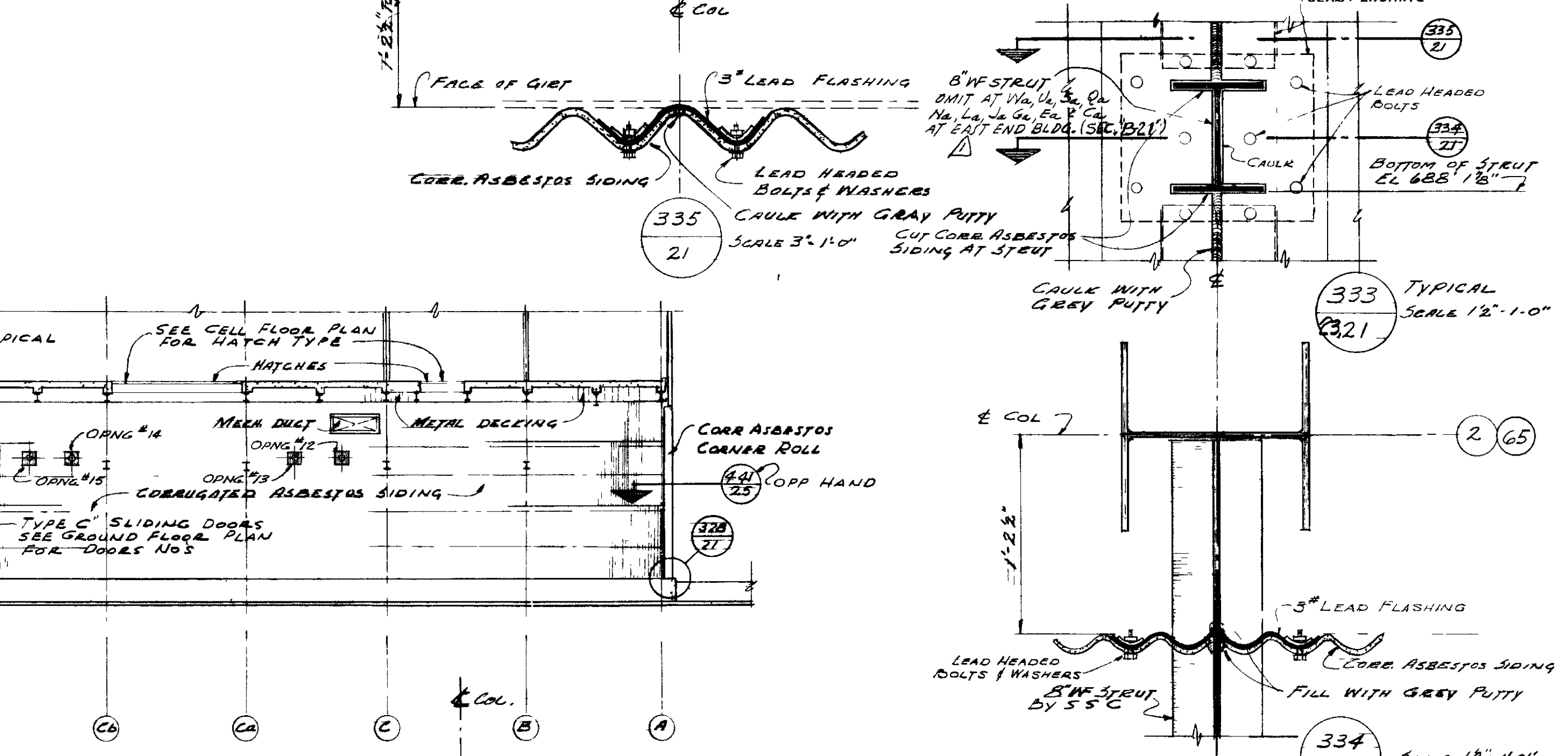
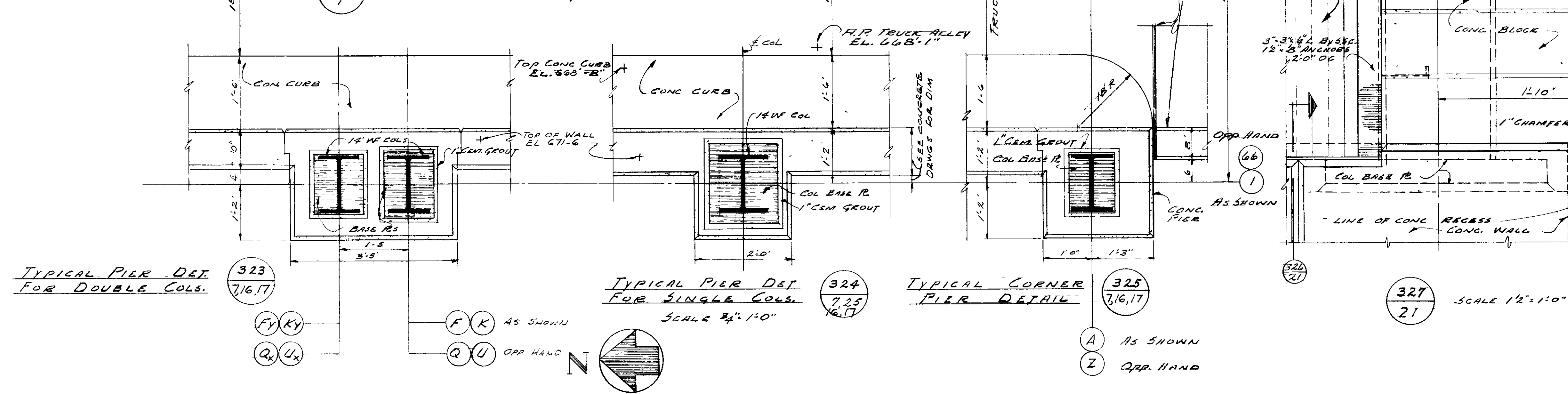
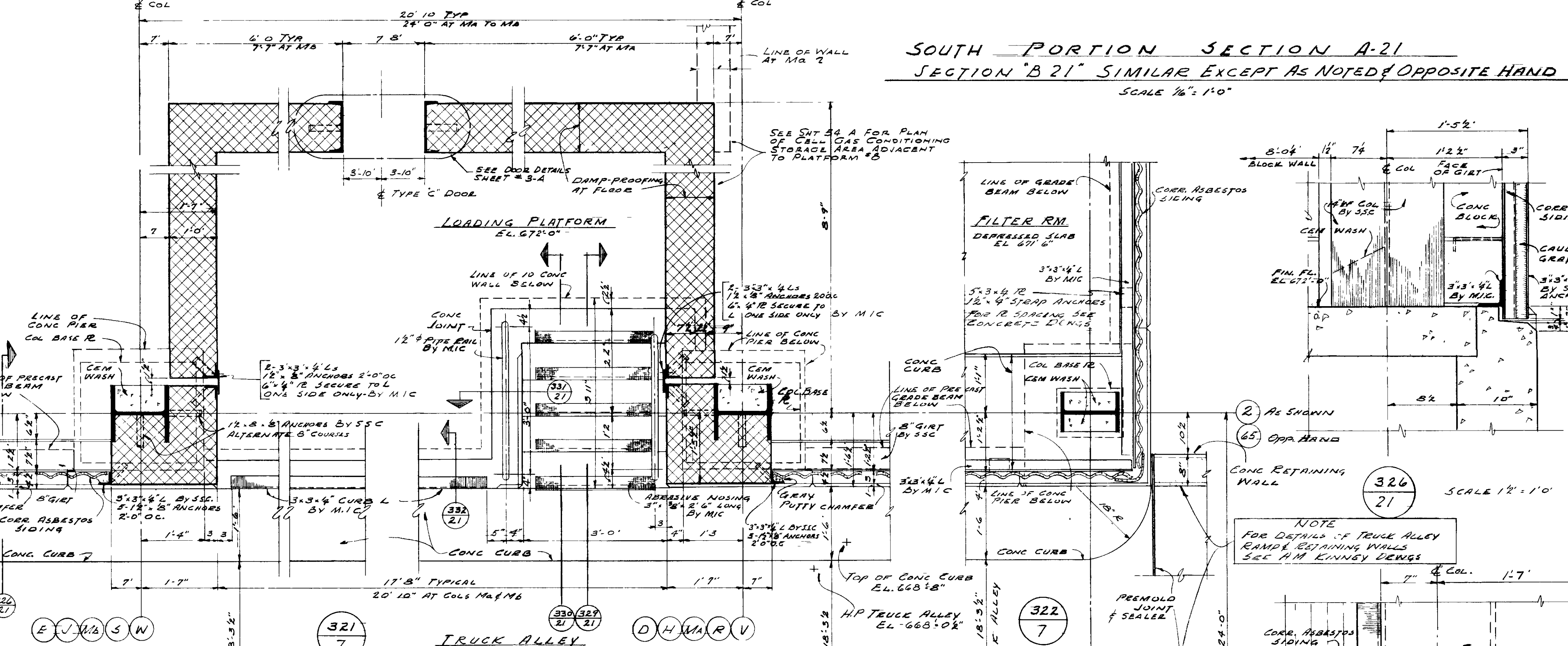
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C. J. Steigler 9-25-53 ENGINEER		D. A. WALKER 9-25-53 ENGINEER		D. B. SOMERES 9-28-53 ENGINEER	
DRAWN R. NIX		DATE 7/14/53		DATE 7-2-53	
IN CHARGE		DATE 7/14/53		DATE 7-2-53	
PROJECT		BUILDING		SHEET	
TITLE		BUILDING		SHEET	
REFERENCE DRAWINGS		BUILDING		SHEET	
PORTSMOUTH AREA		X-333		16 M	



NORTH PORTION SECTION A-21
SECTION "B 21" SIMILAR EXCEPT AS NOTED & OPPOSITE HAND
SCALE 1/2" = 1'-0"



SOUTH PORTION SECTION A-21
SECTION "B 21" SIMILAR EXCEPT AS NOTED & OPPOSITE HAND
SCALE 1/2" = 1'-0"



UNITED STATES ATOMIC ENERGY COMMISSION			
GIFFELS & VALLET, INC. ENGINEERS DETROIT 26, MICHIGAN			
DRAWING TITLE TRUCK ALLEY ELEVATION & DETAILS			
DRAWING APPROVED - DATE	DRAWING APPROVED - DATE	DRAWING APPROVED - DATE	DRAWING APPROVED - DATE
C. J. Stegler 12/1/53	L. G. Roper 12/1/53	R. B. Smith 12/1/53	A. C. Engineer 12/1/53
DATE	CHECKED	DATE	JOB
12/1/53	SEABORNE	12/1/53	51-163-X
IN CHARGE	DATE	DATE	DATE
N. J. Phandner	12/1/53	12/1/53	12/1/53
PROJECT	BUILDING	SHEET	
PORTS MOUTH AREA	X-333	21-A	

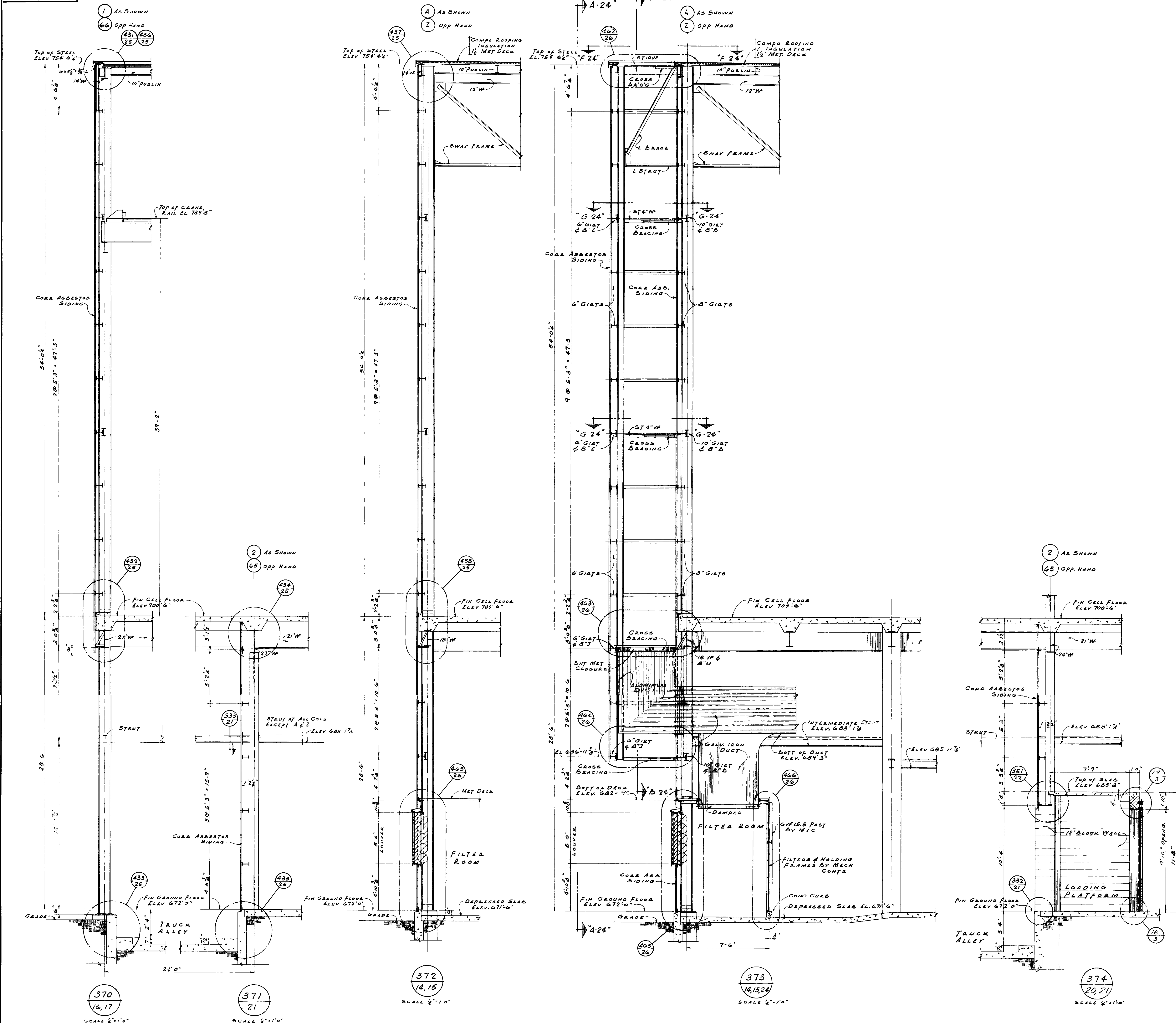
REVIEWED FOR CLASSIFICATION
CLASSIFICATION: UNCLASSIFIED
Date: 4/11/84
By: [Signature]

UNCLASSIFIED/NOT UCN
Ron Hensley
Review Date: 3/7/2000

DETAIL NUMBER
REFERENCE SHEET NO.

NO	DESCRIPTION
00	EXTERIOR WALL PIPE ORNAMENT
2000	WATER PIPING
100-0	HEATING & VENT
33-34	EXPANSION JOINTS
33-35	HATCHES
1037-5	STRUCTURAL STEEL FRAMING
33-5	CONCRETE DETAILS
33-9,10	FLOOR PLANS
22	TRUCK ALLEY DETAILS
SHEET NO	TITLE
	REFERENCE DRAWINGS

10955



REVIEWED FOR CLASSIFICATION
CLASSIFIED BY: [Signature]
Date: [Date]
By: [Signature]

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Ron Horsley
Review Date 3/7

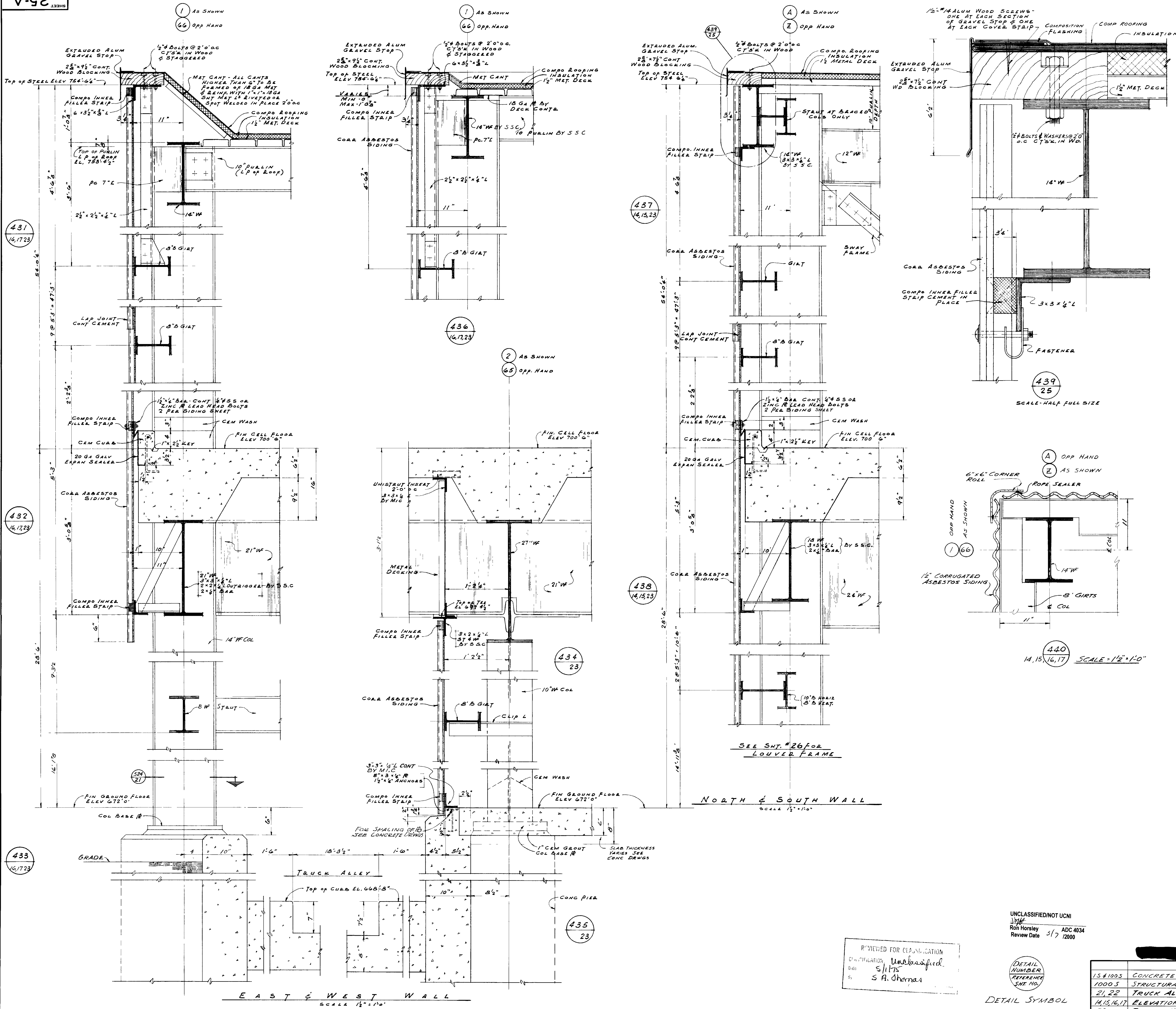
DETAIL NUMBER
REFERENCE
SHEET NUMBER
DETAIL SYMBOL

2	DOOR SCHEDULE
25	TYPICAL WALL DETAILS
27 & 28	FILTER ROOMS
24	EXHAUST DUCTS
21	TRUCK ALLEY
14, 15, 16, 17	ELEVATIONS
10005	STRUCTURAL STEEL FRAMING
SHEET NO.	TITLE
REFERENCE DRAWINGS	

UNITED STATES ATOMIC ENERGY COMMISSION			
GIFELS & VALLET, INC. ENGINEERS DETROIT 26, MICHIGAN			
DRAWING TITLE			
4" SCALE WALL SECTIONS			
DRAWING APPROVED - DATE	DRAWING APPROVED - DATE	DRAWING APPROVED - DATE	
C. J. Stupka 11/1/53	W. G. PIPER 11/1/53	R. D. SOMERS 11/1/53	
DATE	CHECKED	DATE	JOB
11/1/53	W. G. PIPER	11/1/53	51-163-X
IN CHARGE	CHEF	DATE	
W. G. PIPER	L. V. GIBBS		
PROJECT	BUILDING	SHEET	
"X"	X-333	23-A	
DET 370-400			

6074

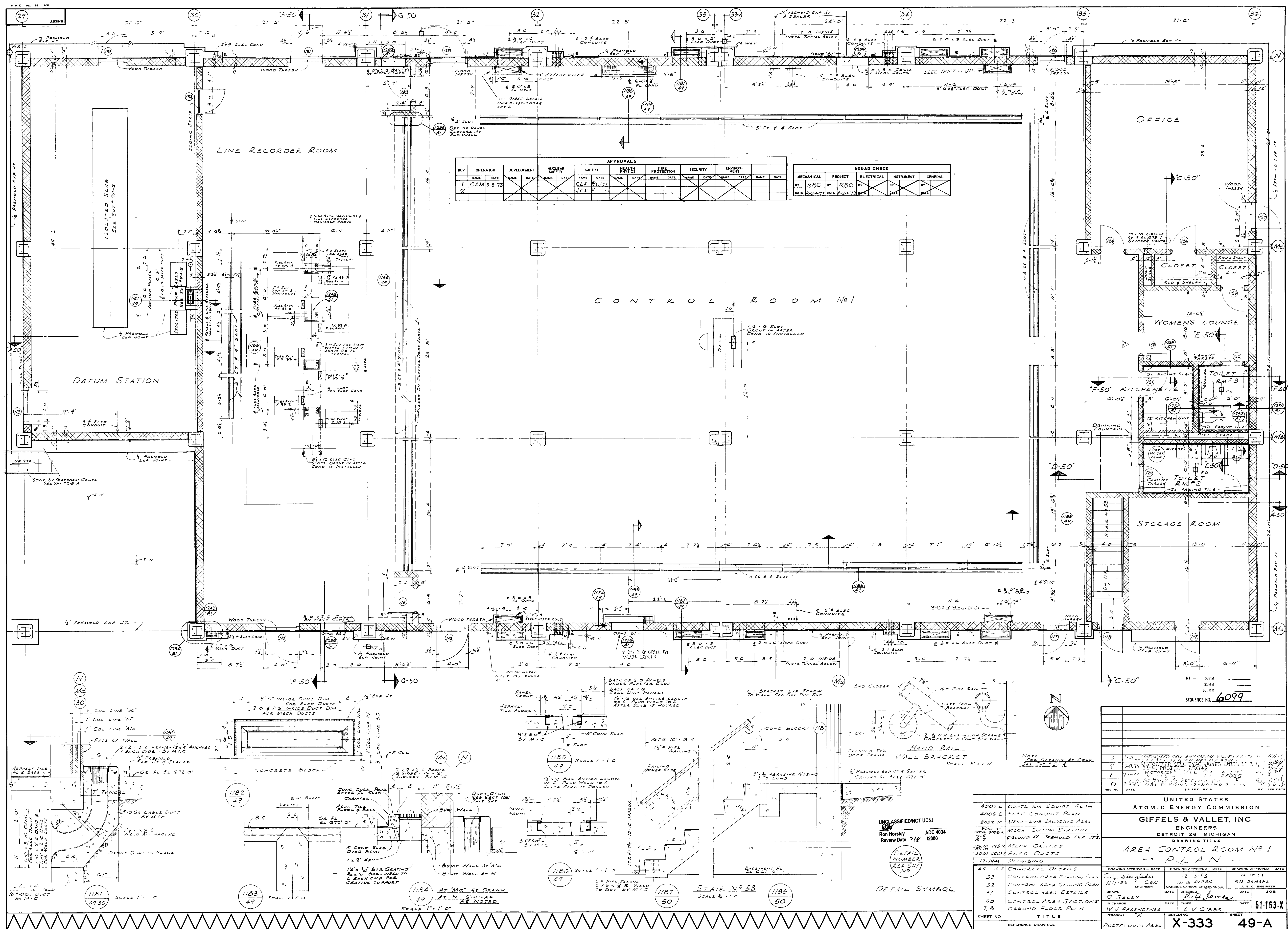
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105MM
SEQUENCE NO. 6099

SEQUENCE NO. 1

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UNITED STATES

ENERGY COMMISSION

& VALLET, INC

ENGINEERS
T 26 MICHIGAN

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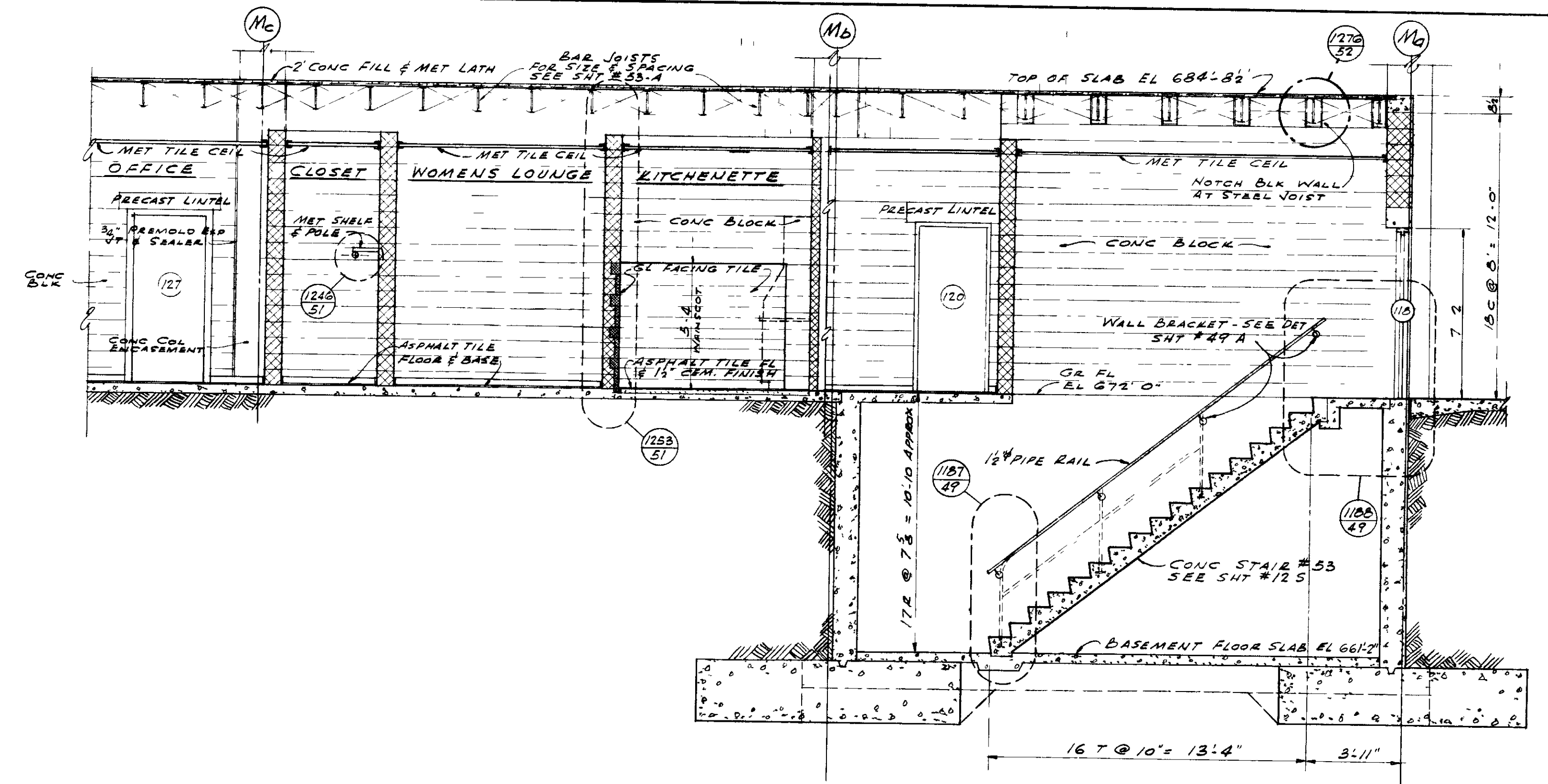
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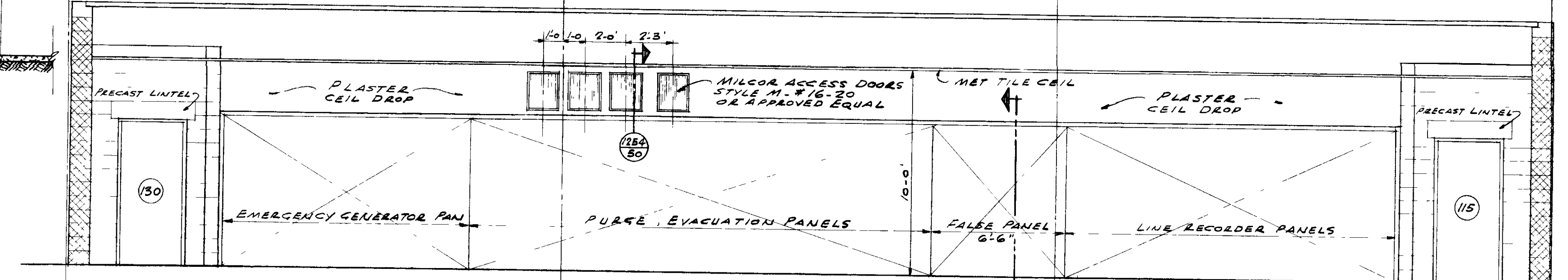
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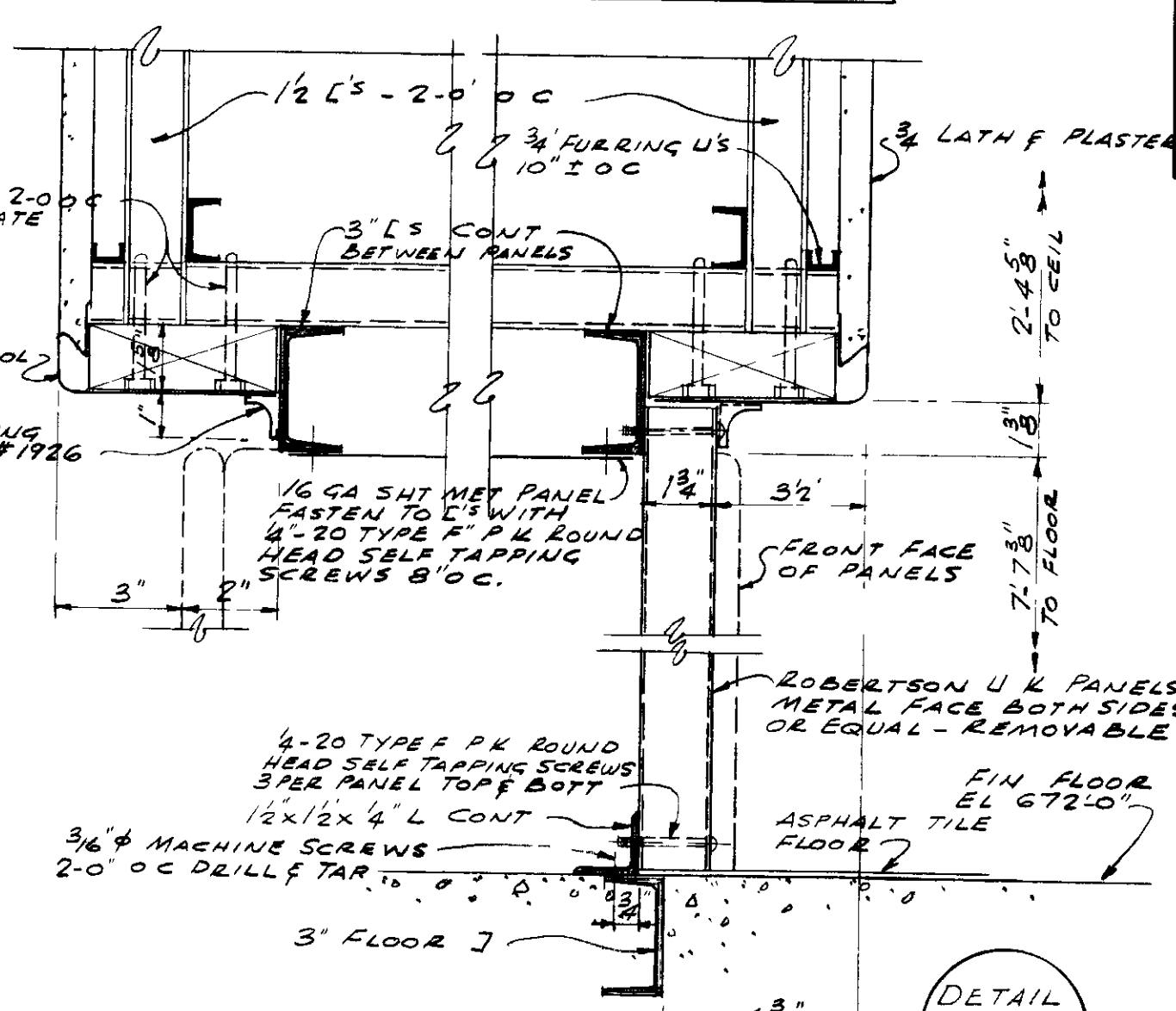
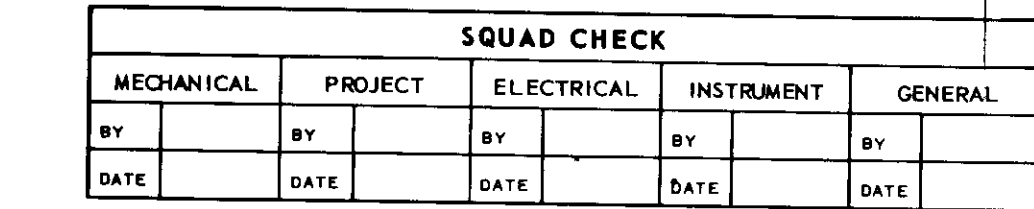
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SECTION "F-50"
SCALE 1/4" = 1'-0"



SECTION G-50'
SCALE 1/2" = 1'-0"



1211
50
SCALE 3" = 1'-0"

[illegible]

NOTE
WHERE A PERFORATED PIPE IS CALLED
FOR IT SHALL BE ARMO HX FOR CROWN
CORRUGATED PIPE OR THE APPROVED EQUAL
PIPE IS TO BE AT LEAST 18 GA GALVANIZED
AND FITTED WITH NECESSARY COUPLING
FOR JOINTING AND SPECIALS AT ELBOWS
AND LATERALS
PIPE IS TO BE 2" DIA BACK 1/4" HARD
BACKPIPE 1/4" DIA 2" DIA DOWN
SEE DETAILING REQUEST #15-15

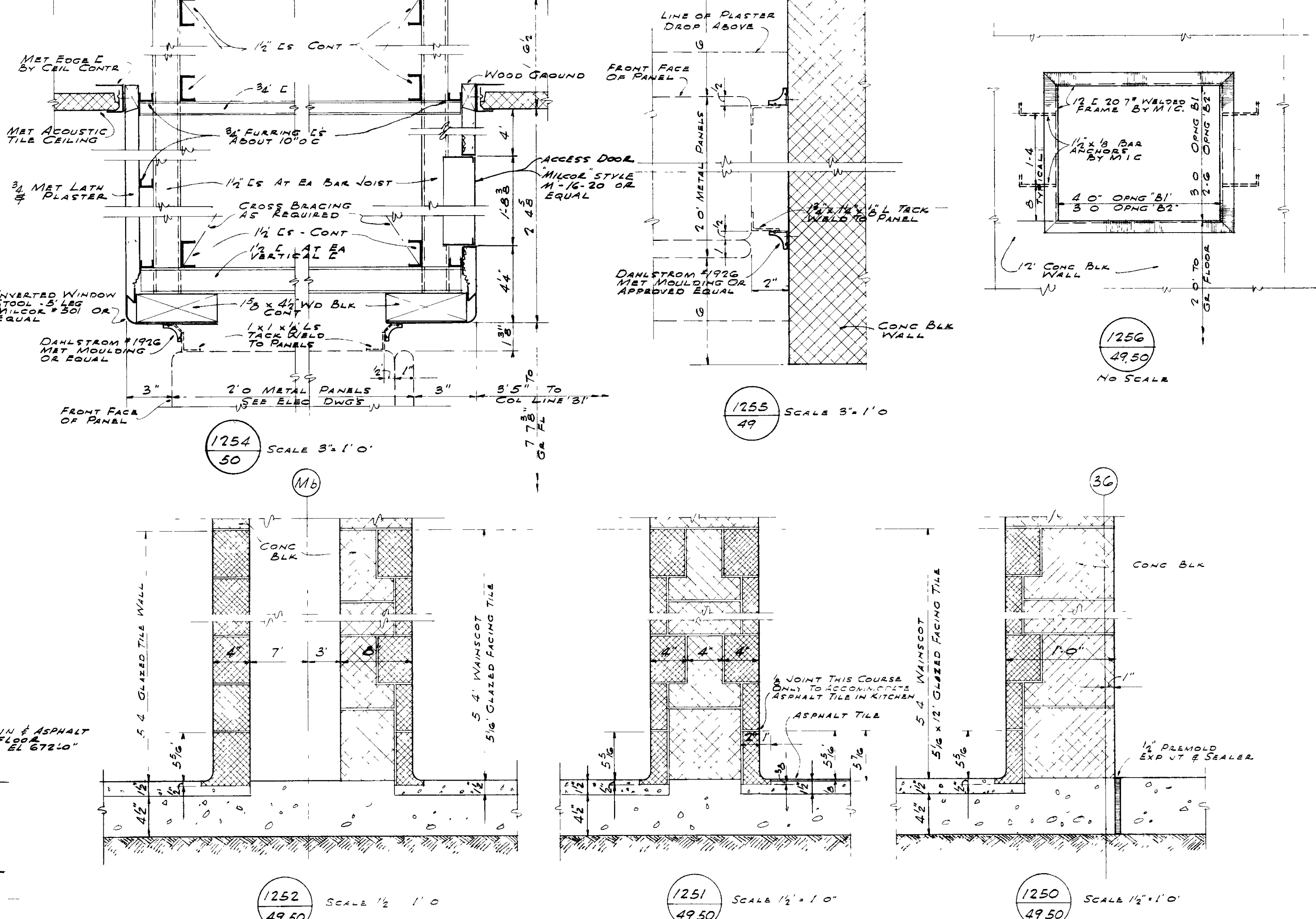
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Ron Horsley ADC
Review Date 3/8 1200

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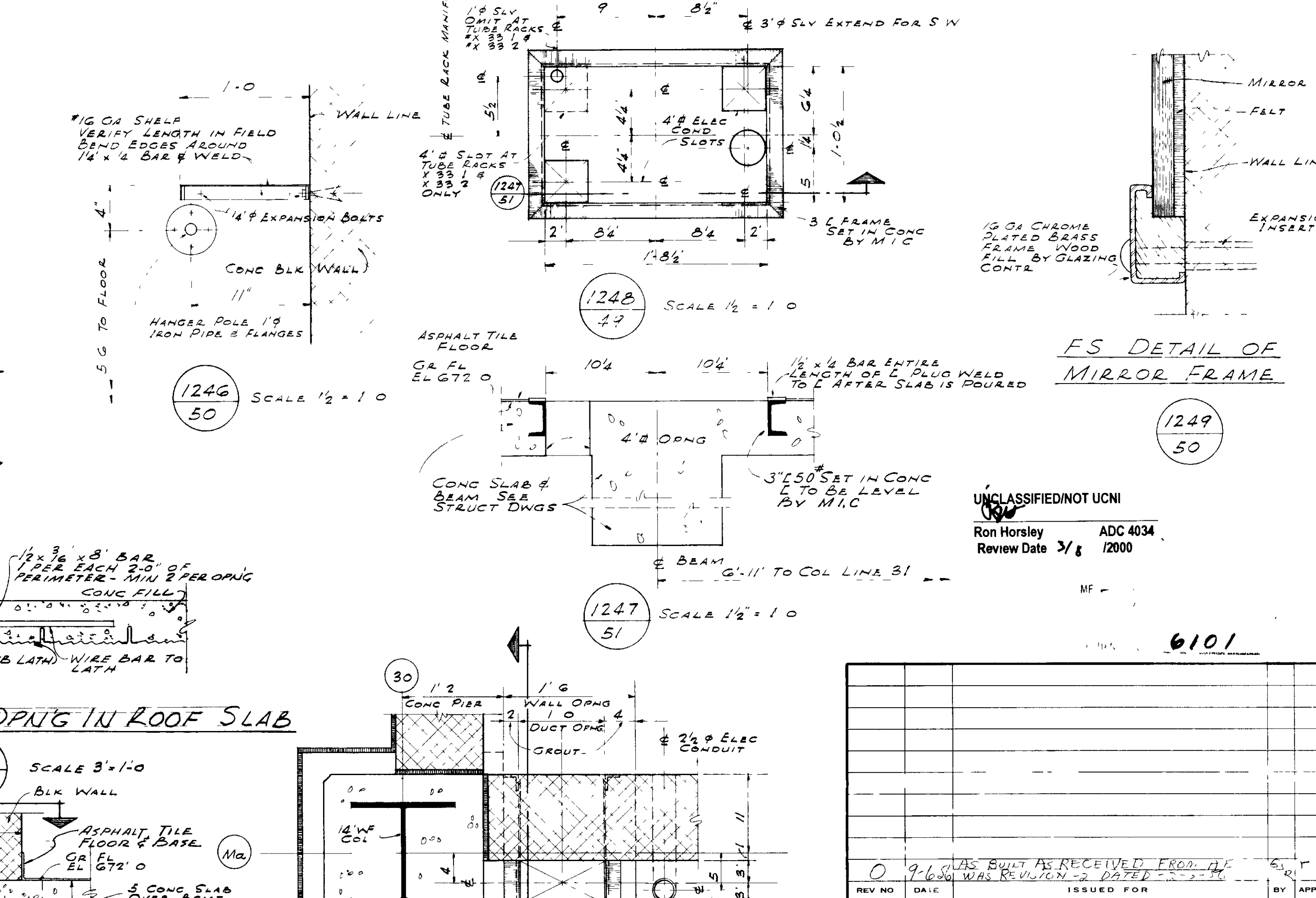
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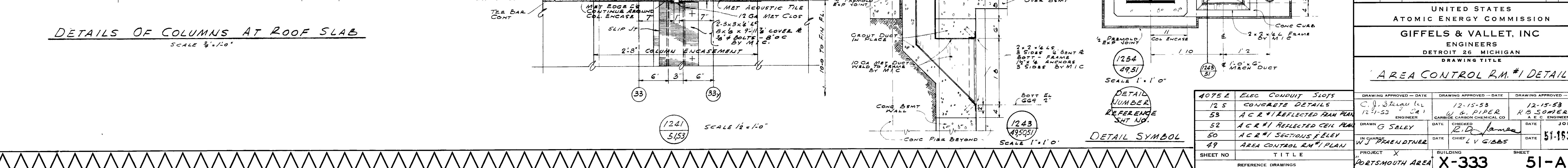


DETAILS OF COLUMNS AT GROUND FLOOR
SCALE $\frac{3}{4}" = 1'-0"$

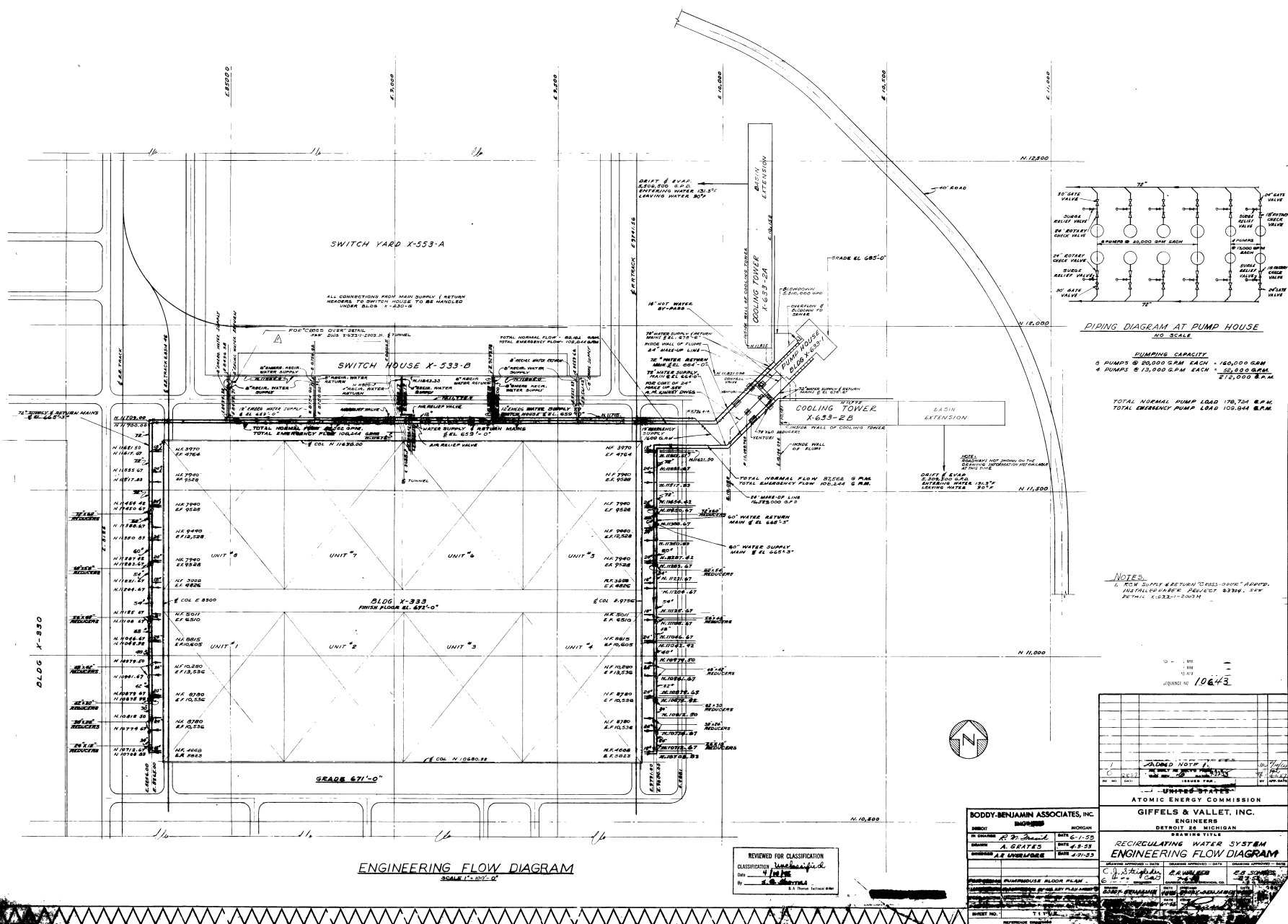


DETAILS OF COLUMNS AT ROOF SLAB
SCALE $\frac{3}{4}'' = 1'-0''$

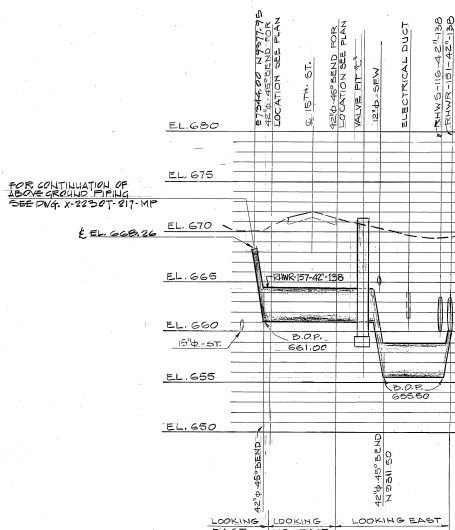
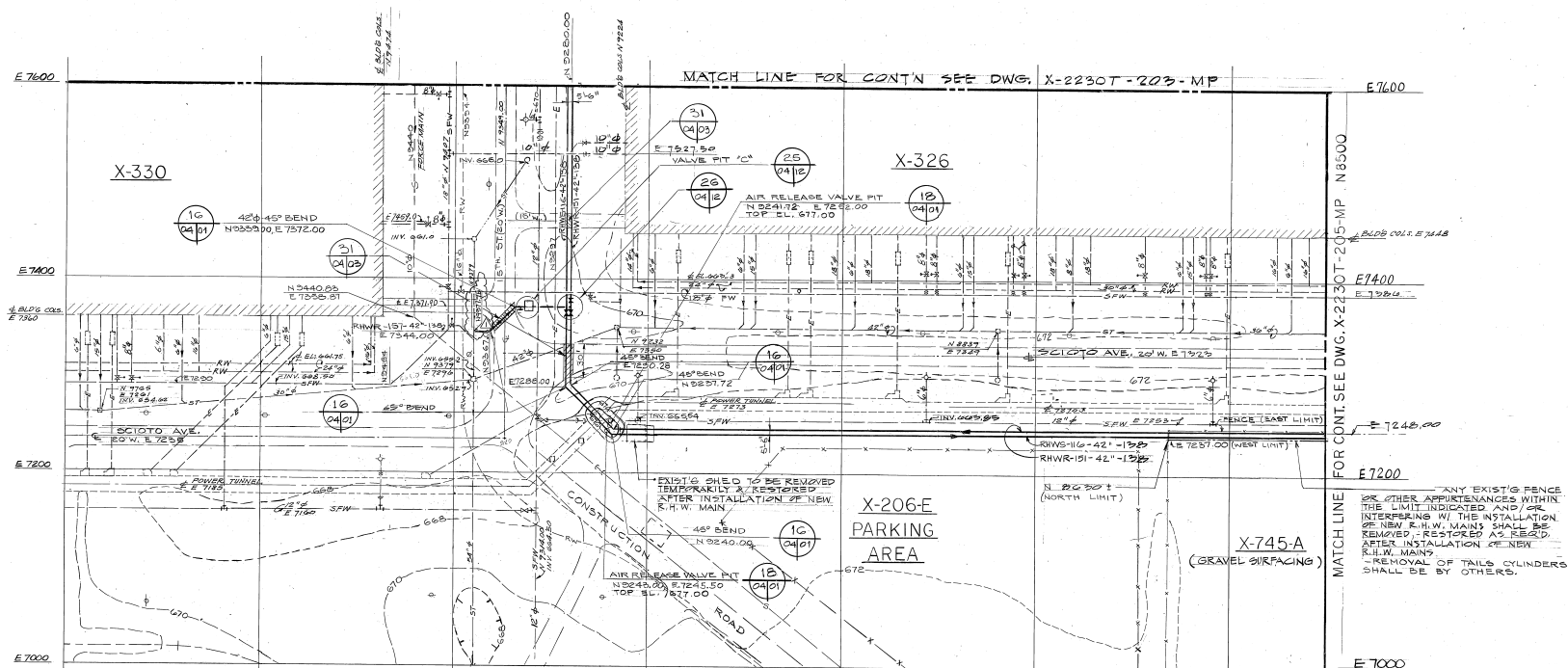
TYPICAL DUCT OPN'G IN ROOF SLAB



0 911 WAS SWIFT AS RECEIVED FROM AF 12-15-53 WAS RETURNED DATE 1-2-54		6-11-53	
REV NO	DATE	ISSUED FOR	APP DATE
UNITED STATES ATOMIC ENERGY COMMISSION			
GIFFELS & VALLET, INC ENGINEERS DETROIT 26 MICHIGAN			
DRAWING TITLE			
<u>AREA CONTROL RM. #1 DETAILS</u>			
DRAWING APPROVED - DATE C. J. Sheehan 12-15-53 ENGINEER		DRAWING APPROVED - DATE 12-15-53 W. B. PIERCE CHIEF ENGINEER	
DRAWN G. SELLEY		DATE 12-15-53 CHECKED R. D. LAMARCA CHIEF	
PROJECT W-37 SHREDDER		DATE 1-2-54 JOB R 5 COMBERS I. E. G. ENGINEER	
PROJECT X PORTSMOUTH AREA		BUILDING X-333	
		SHEET 51-163-A	



FOR GENERAL NOTES AND LEGEND
SEE DWG. X-2230T-202-MP



PROFILE
SCALE: HORZ. 1" = 30'-0"

DRAWING ON WHICH SECTION OR DETAIL IS TAKEN

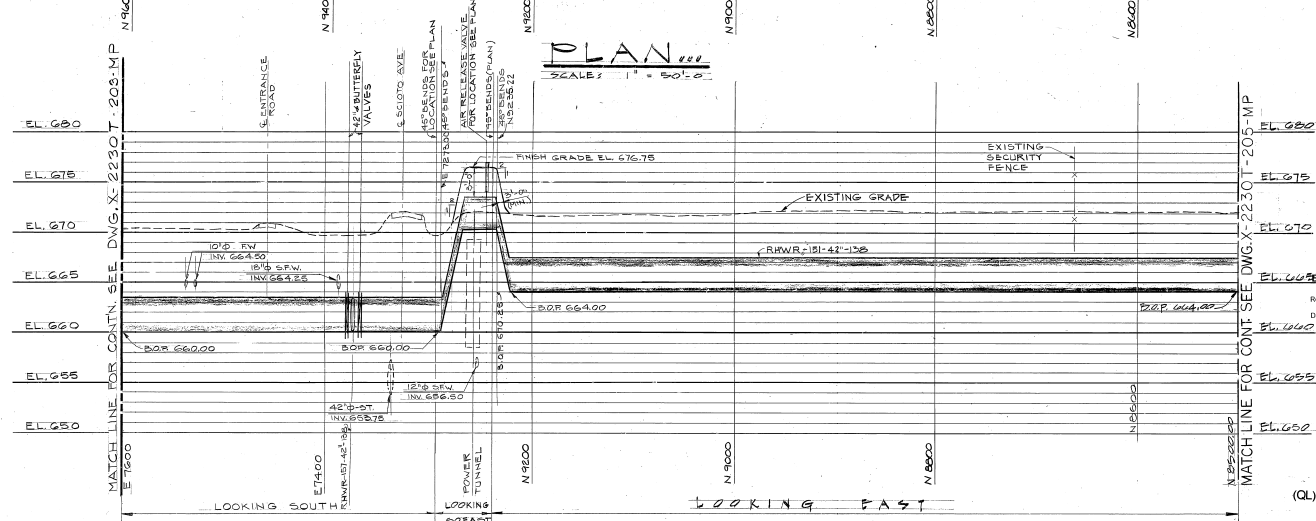
DRAWING ON WHICH SECTION OR DETAIL IS SHOWN

NUMBER OF SECTION OR DETAIL

NUMBER IS PREFIXED BY X-2230T-2 - MP

NUMBER IS PREFIXED BY X-2230T-2 - MP

UNLESS OTHERWISE NOTED



PROFILE

SCALE: HORIZ.	1" = 50'-0"
VERT.	1" = 5'-0"

				APPROVALS		DATE	UNITED STATES	
				C.J. D'ANGELO JR.		7/2/77	DEPARTMENT OF ENERGY	
				I.M. KRANDEN RESCUE		4/19/78	CATALYTIC, INC.	
				CHECKED			PHILADELPHIA, PENNSYLVANIA	
				DRAWN BY			CATALYTIC INC. CONTRACT NO. 42882	
				G. P. P. P.		4/21/78	PROJECT	
				MI London		5/1/78	GAS CENTRIFUGE ENRICHMENT PLANT	
				OCTO		5/1/78	R.H.W. SYSTEM	
							TITLE	
							CIVIL - UNDERGROUND PIPING	
							PLAN & PROFILE	
							SHEET # 2	
							SCALE	
							AS NOTED	
							CP-1 X-2230	
							04-MP	

