

RIVER CROSSING  
SIPHON OUTLET MANHOLE #2  
PLAN VIEW - ELEV 227.500

SCALE 1:20

SECTION B-B  
SCALE 1:20

NOTES:

1. INSTALLED PRE-CAST MANHOLES IN ACCORDANCE WITH CW-2030 AND SD-010.
2. ALL NUTS, BOLTS AND ANCHORS ARE TYPE 3166 SS UNLESS NOTED OTHERWISE.
3. APPLIED BITUMINOUS ISOLATION COATING BETWEEN ALUMINUM AND CONCRETE SURFACES.

CONTRACTOR: DARCO

**RECORD DRAWING**  
WATER AND WASTE DEPARTMENT

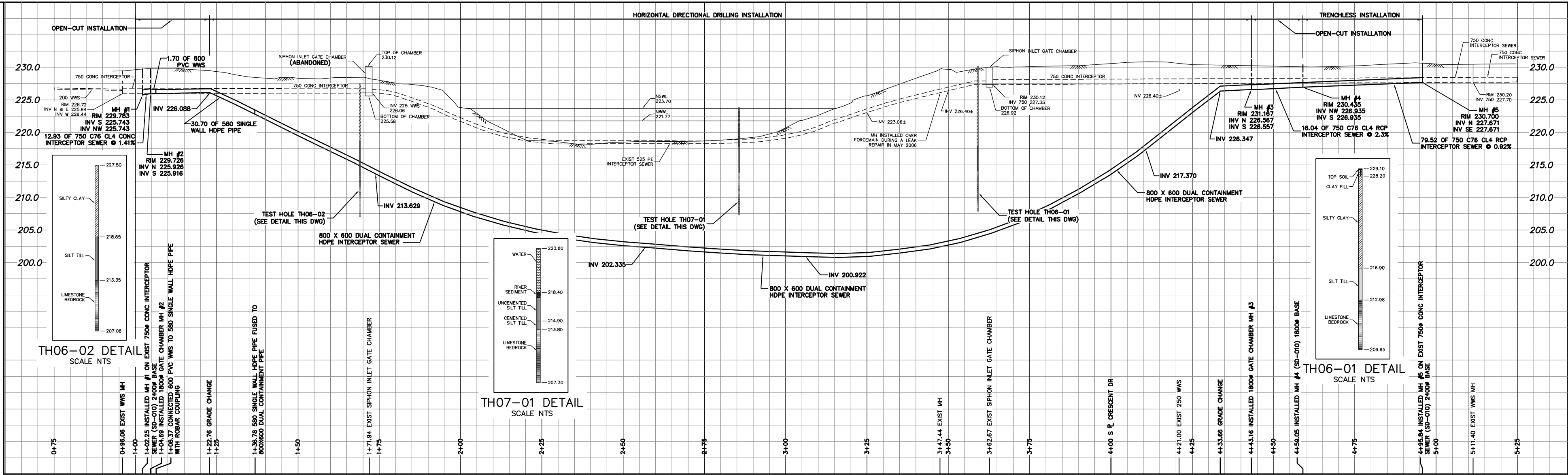
METRIC  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

200 WM	WATERMAIN	200 WM	SL, HYDRO	150 WM	WATERMAIN	150 WM
+	HYDRANT	+	MTS	+	HYDRANT	+
o	VALVE	o	TRAFFIC SIGNALS	o	VALVE	o
525 LDS	LAND DRAINAGE SEWER	525 LDS	50 GAS	300 LDS	LAND DRAINAGE SEWER	300 LDS
375 WWS	WASTEWATER SEWER	375 WWS	SURVEY BAR	250 WWS	WASTEWATER SEWER	250 WWS
o	MANHOLE	o	FENCE	o	PROFILE	o
□	CATCH BASIN	□	POLE - HYDRO, MTS	□	GROUND ABOVE PIPE	□
▽	CURB INLET	▽	CURB STOP	▽	? DITCH (NORTH & WEST)	▽
+	JUNCTIONS	+	GUY ANCHOR	+	? DITCH (SOUTH & EAST)	+
—	CULVERT	—	LIGHT STANDARD	—	GUTTER (NORTH & WEST)	—
o	ANODE	o	TREE	o	GUTTER (SOUTH & EAST)	o
EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING
—	LEGEND-PROFILE	PROPOSED	—	LEGEND-PROFILE	PROPOSED	—

LOCATION APPROVED		B.M. ELEV.	FIELD BOOK #:
UNDERGROUND STRUCTURES			
SUPV. U/G STRUCTURES COMMITTEE	DATE		
NOTE:			
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.			
NO.	REVISIONS	DATE	BY

CITY OF WINNIPEG		ENGINEER'S SEAL	
WATER AND WASTE ENGINEERING DIVISION		ORIGINAL SIGNED BY	
DESIGNED BY TW	CHECKED BY TW	K.R. ZUREK	
DRAWN BY CJH	APPROVED BY KZ	11/04/20	
HOR. SCALE AS	RELEASED FOR CONSTRUCTION	BID OPPORTUNITY: 885-2007	
VERTICAL SHOWN		FILENAME: 06894.dwg	
DATE 2007 12 06	DATE	PLOT DATE: 2011 04 20	

THE CITY OF WINNIPEG		SIPHON OUTLET GATE CHAMBER MANHOLE	
WATER AND WASTE DEPARTMENT		PLAN AND SECTION VIEW	
2007 RENEWAL OF THE WILLOW-CRANE INTERCEPTOR SEWER RED RIVER CROSSING		SHEET 3 OF 4	
CITY DRAWING NUMBER		06894	



COORDINATES FOR CL OF PIPE CROSSING RIVER

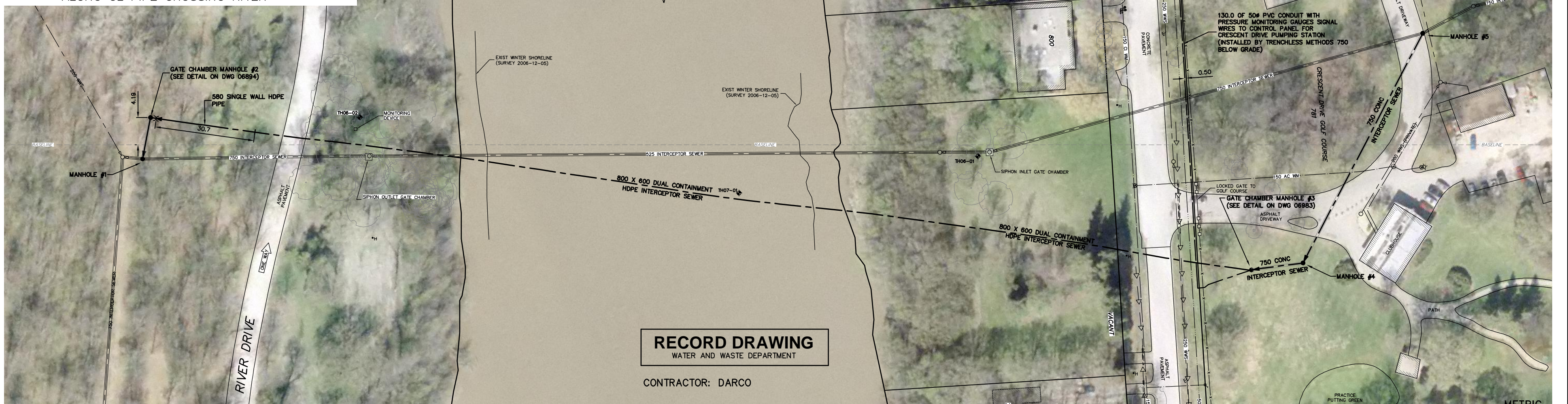
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10002.000	5521482.742	633627.693	224.33	10021.000	5521639.345	633708.520	200.91
10003.000	5521490.875	633631.908	222.04	10022.000	5521647.865	633712.576	200.79
10004.000	5521499.040	633636.040	219.76	10023.000	5521656.320	633716.704	200.96
10005.000	5521507.243	633640.011	217.55	10024.000	5521664.698	633720.999	201.45
10006.000	5521515.402	633644.003	215.34	10025.000	5521672.980	633725.338	202.11
10007.000	5521523.535	633648.129	213.03	10026.000	5521681.285	633729.655	203.10
10008.000	5521531.727	633652.297	210.77	10027.000	5521689.545	633733.927	204.47
10009.000	5521539.891	633656.473	208.79	10028.000	5521697.784	633738.220	206.20
10010.000	5521548.125	633660.753	207.12	10029.000	5521705.911	633742.490	208.31
10011.000	5521556.330	633665.131	205.75	10030.000	5521713.964	633746.769	210.73
10012.000	5521564.580	633669.554	204.63	10031.000	5521721.751	633751.173	213.44
10013.000	5521572.758	633673.963	203.74	10032.000	5521729.429	633755.569	216.51
10014.000	5521580.999	633678.382	203.06	10033.000	5521736.991	633759.883	219.95
10015.000	5521589.276	633682.774	202.58	10034.000	5521744.681	633764.082	223.41
10016.000	5521597.587	633687.253	202.21	10035.000	5521752.414	633768.112	226.74
10017.000	5521605.875	633691.797	201.82	10036.000	5521760.581	633772.369	230.28
10018.000	5521614.120	633696.176	201.49				

COORDINATES FOR MANHOLES

NUMBER	NORTHING	EASTING
MANHOLE #1	5521450.779	633625.565
MANHOLE #2 (GATE CHAMBER)	5521457.329	633614.421
MANHOLE #3 (GATE CHAMBER)	5521760.463	633772.128
MANHOLE #4	5521776.153	633775.430
MANHOLE #5	5521834.481	633721.378

NOTE: CHAINAGES SHOWN ARE ALONG BASELINE 87.50 E I.B. @ S/E CORNER CRESCENT DR. & SOUTH DR.

SEE 6893 FOR PLAN OF POINT LOCATIONS ALONG CL PIPE CROSSING RIVER



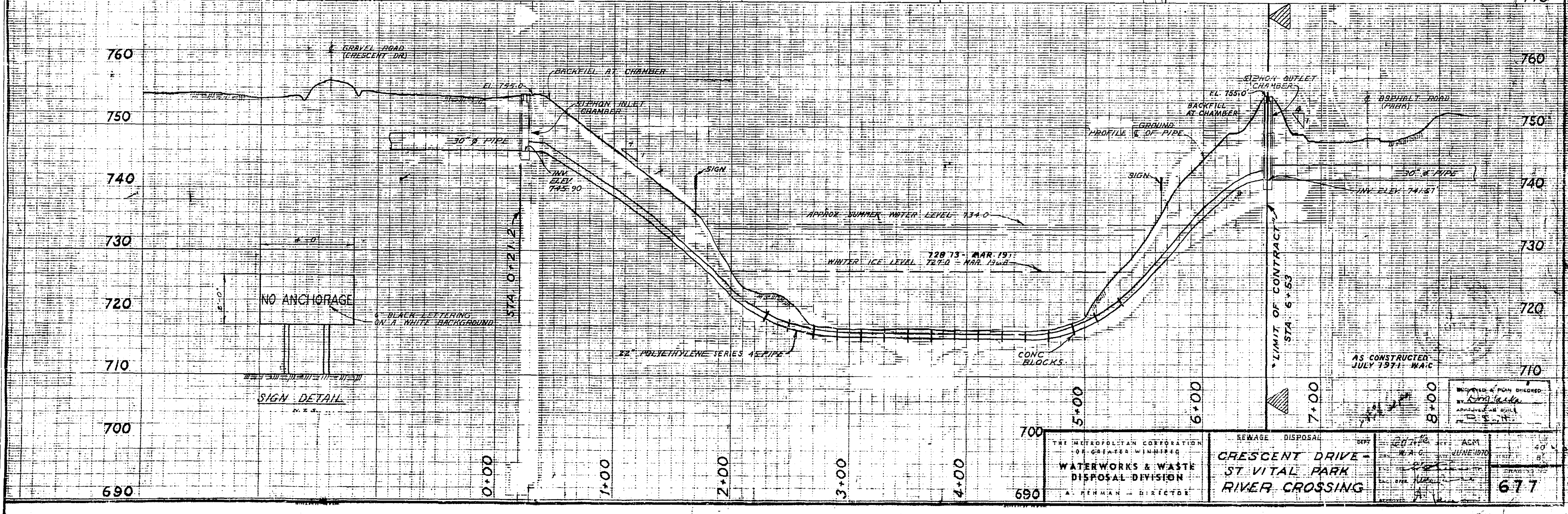
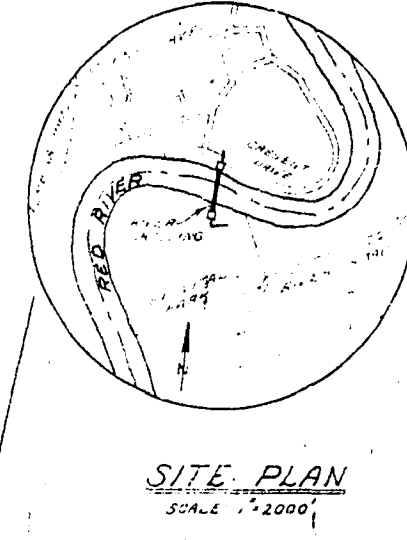
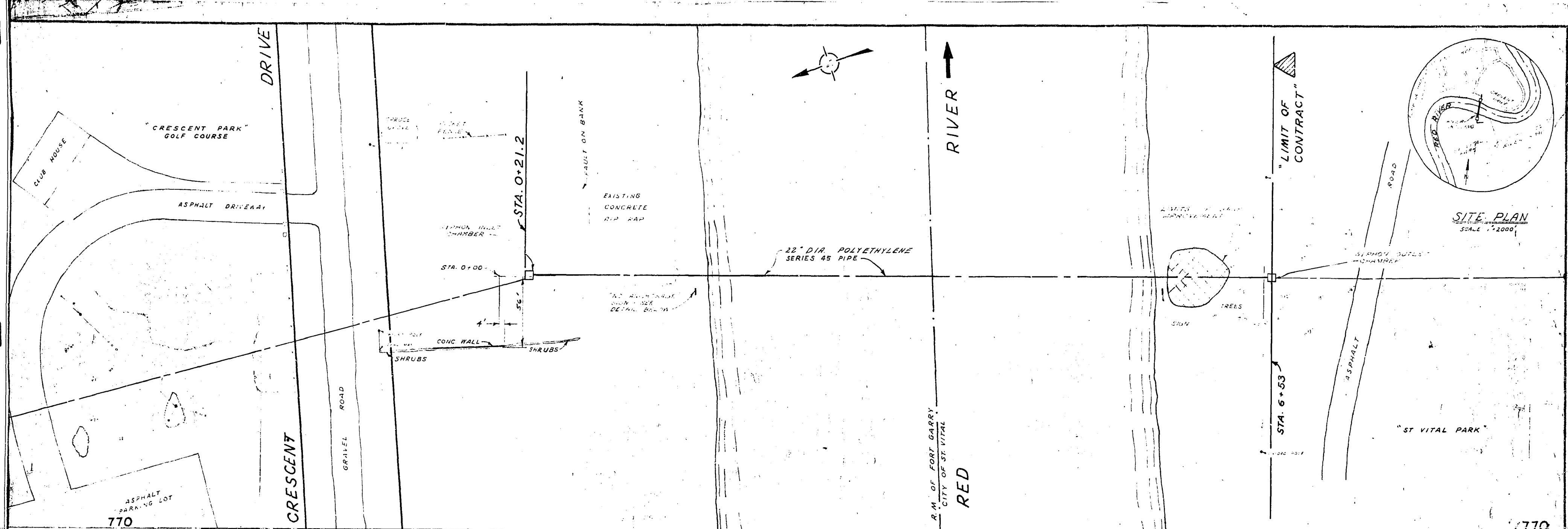
**RECORD DRAWING**  
WATER AND WASTE DEPARTMENT

CONTRACTOR: DARCO

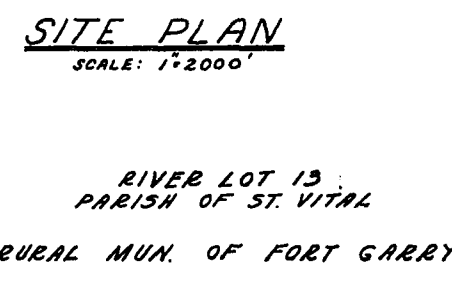
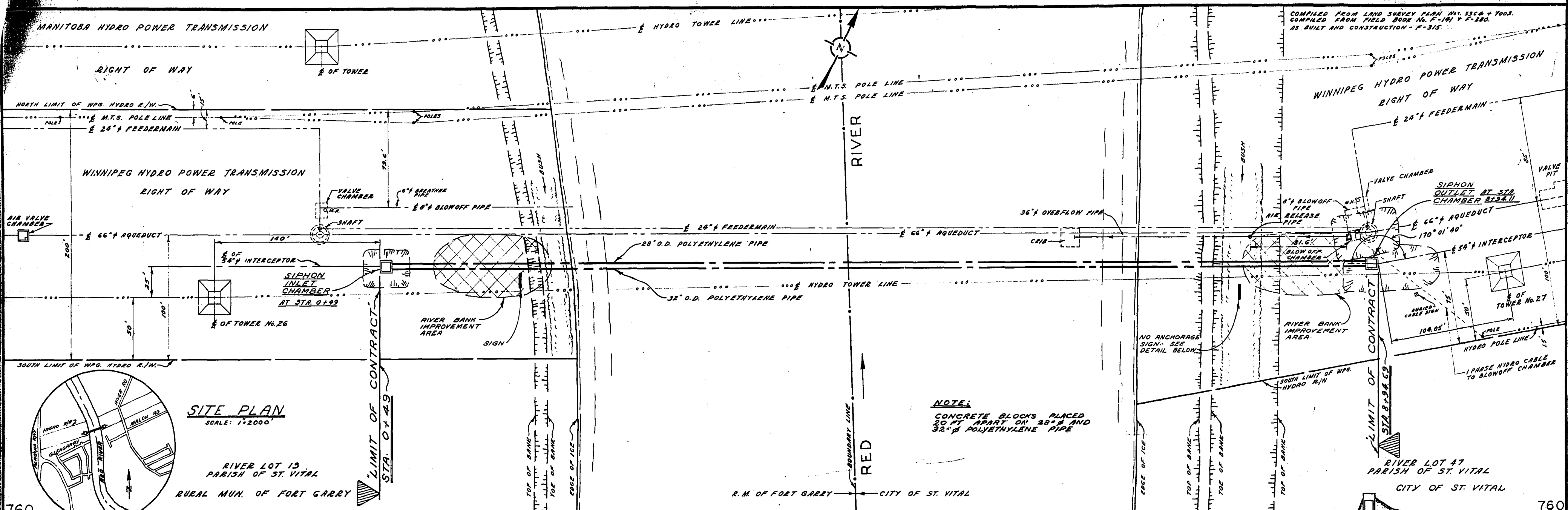
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REF. or DRAWING NO.

DETAILS

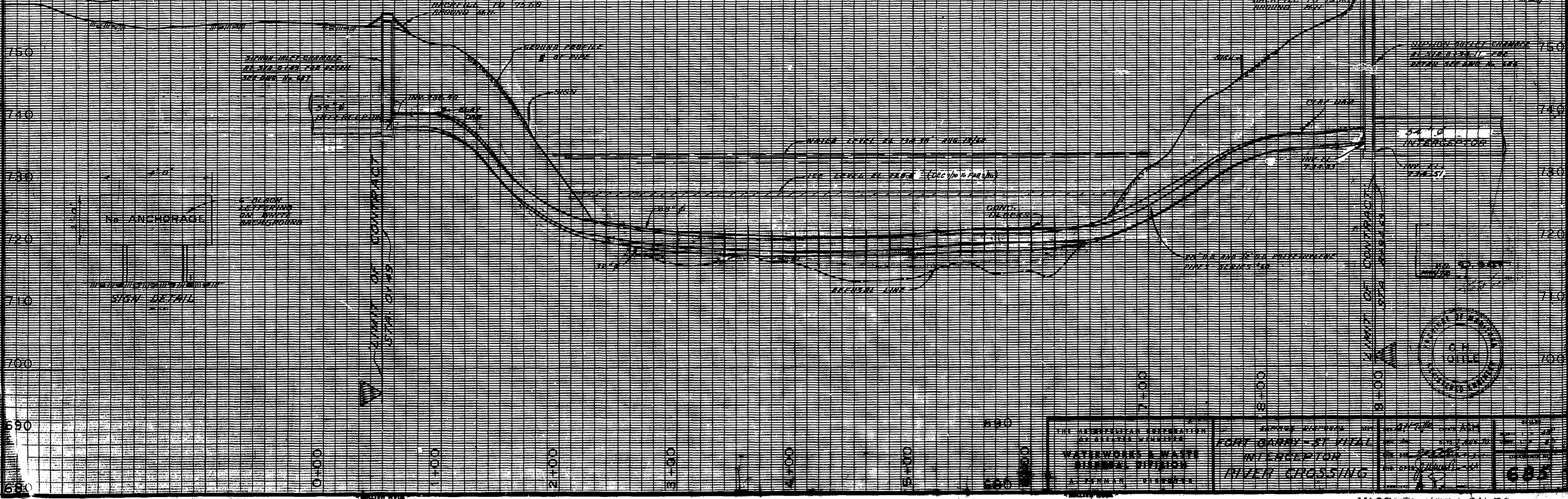


CRESCENT DRIVE

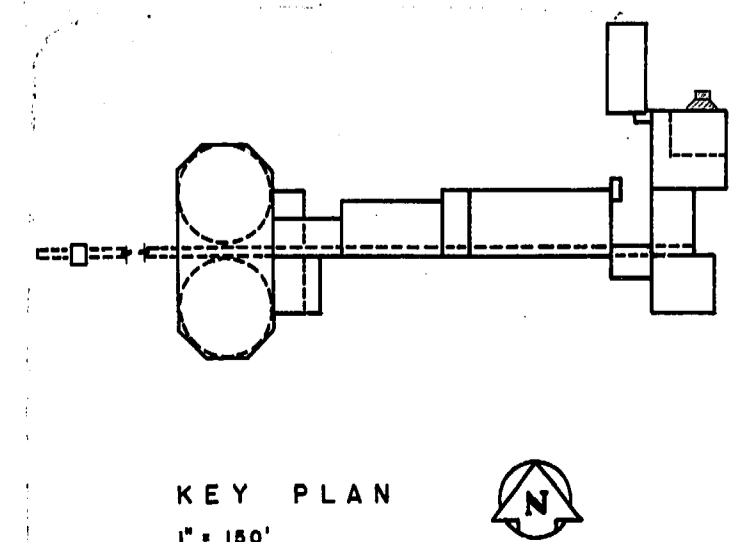
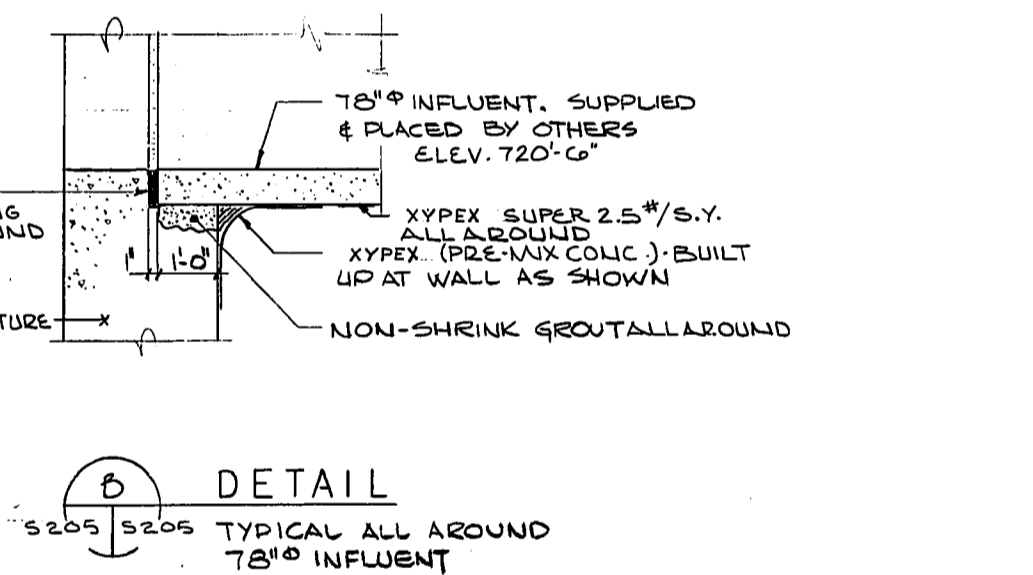
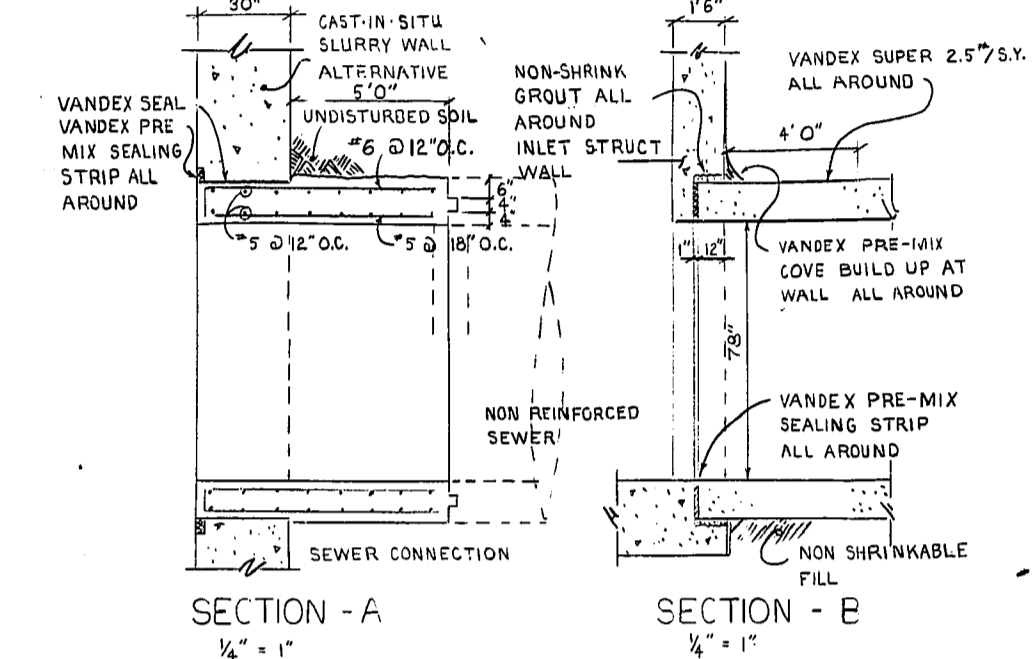
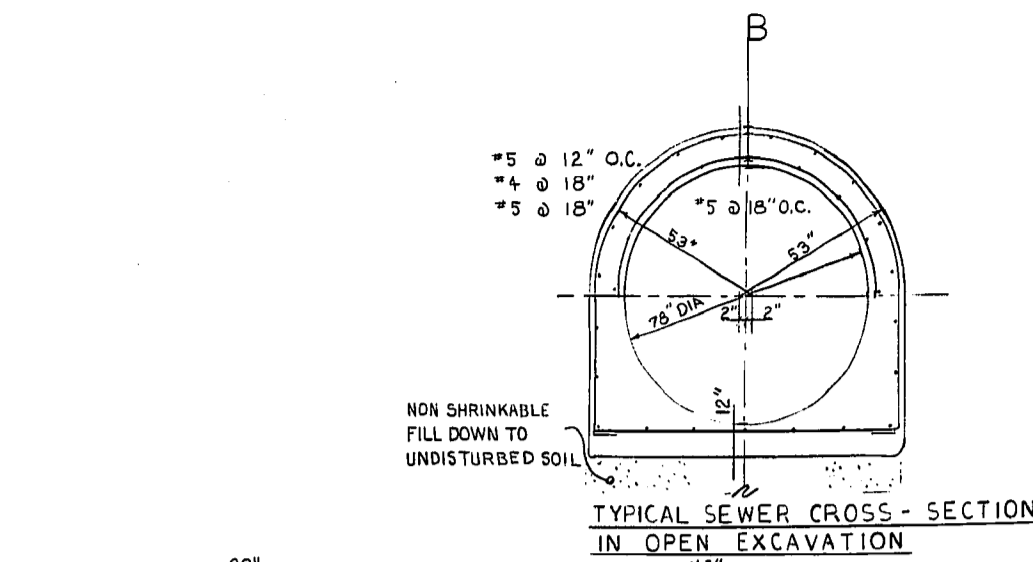
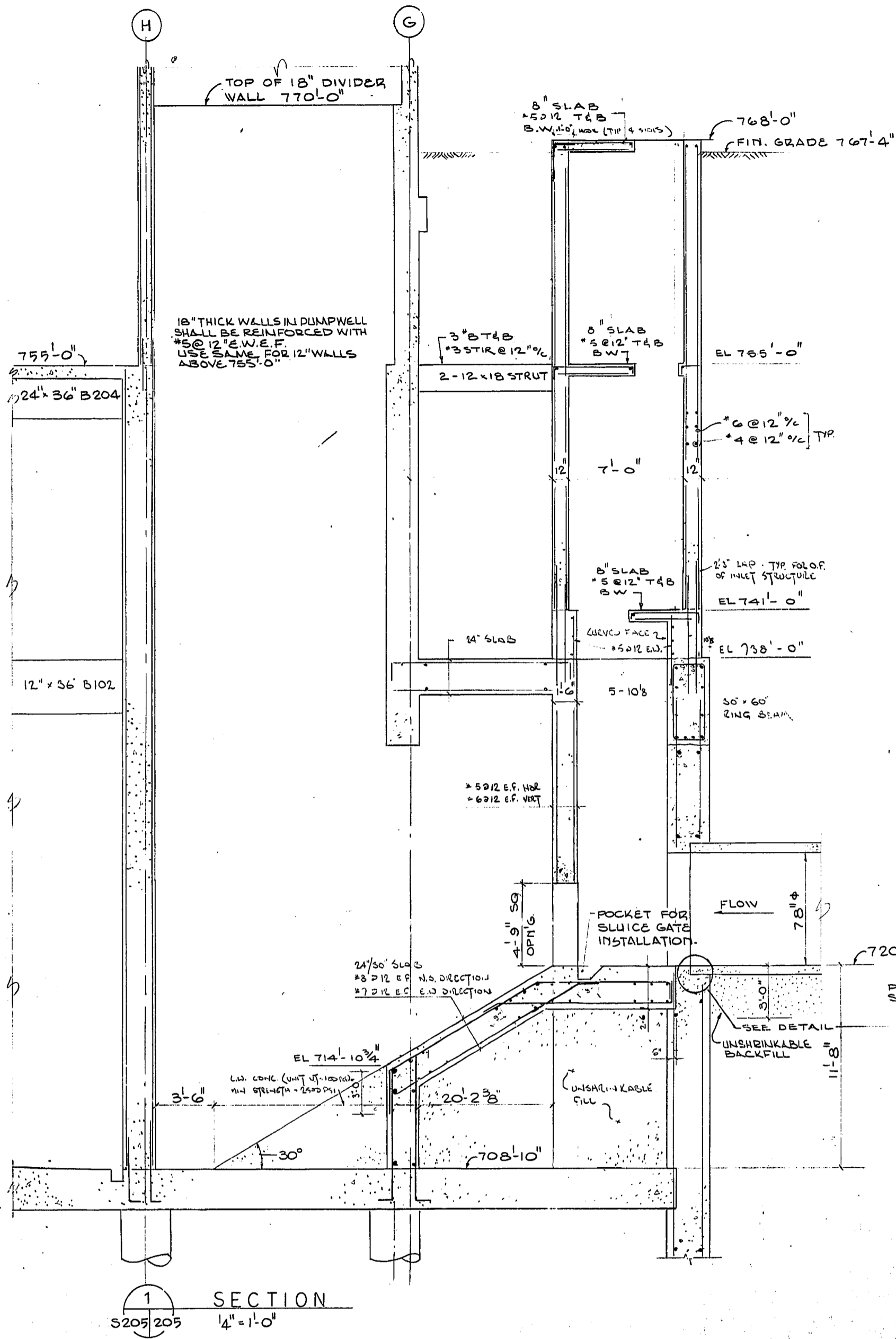
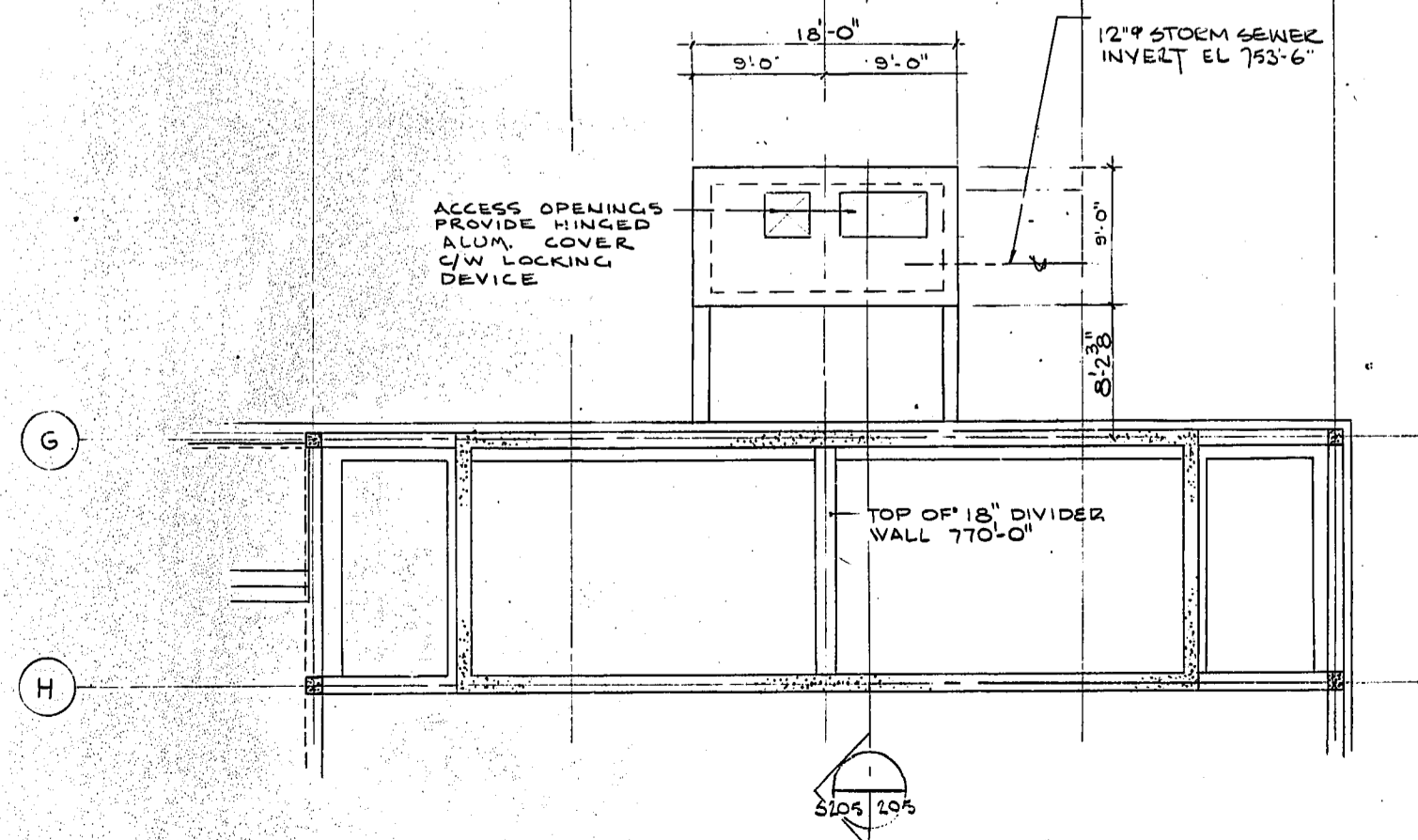
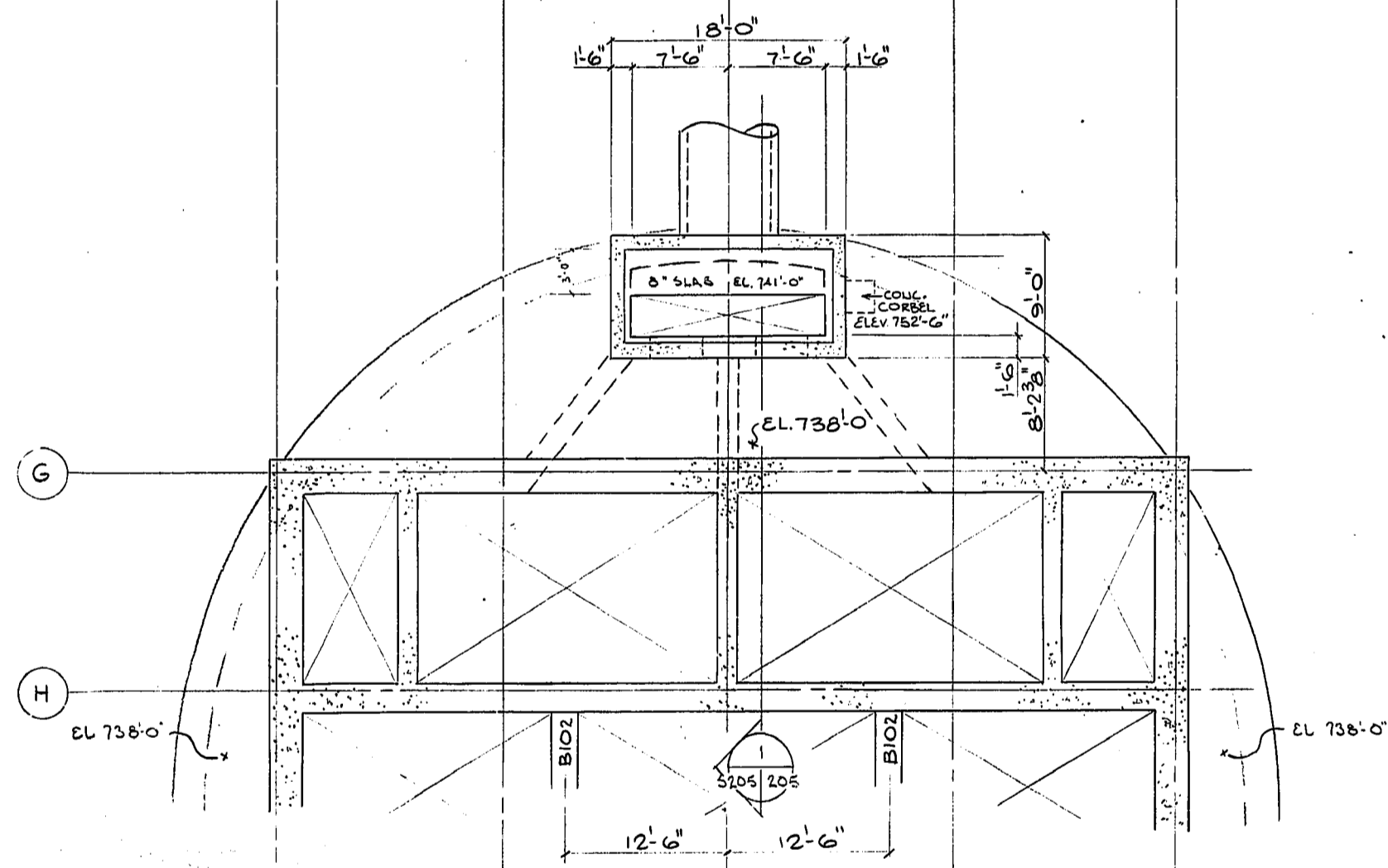
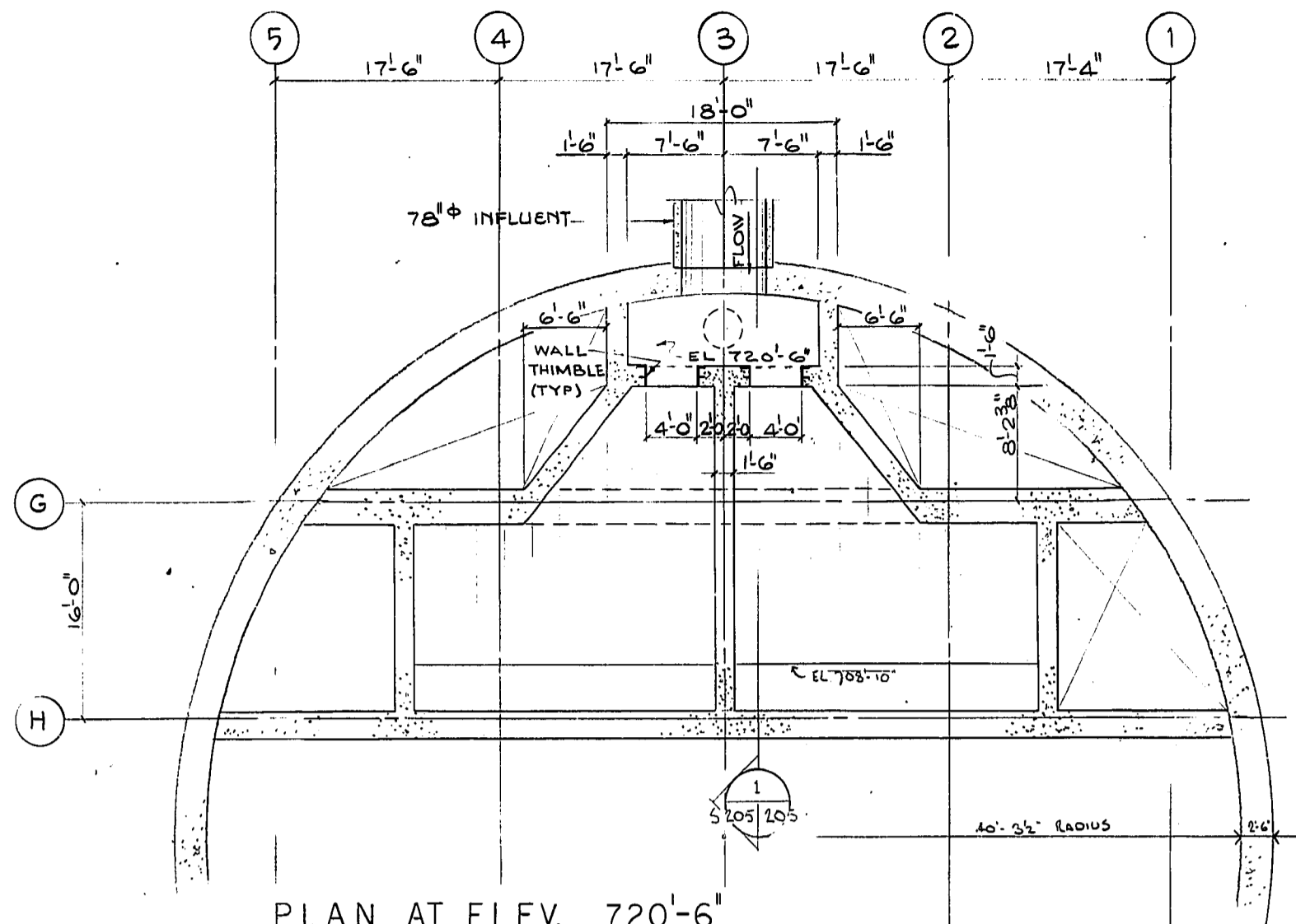


**NOTE:**  
CONCRETE BLOCKS PLACED  
20 FT APART ON 28" &  
32" O.D. POLYETHYLENE PIPE

760 R.M. OF FORT GARRY CITY OF ST. VITAL 760



THE MUNICIPAL CORPORATION OF FORT GARRY - ST. VITAL WATERWORKS & WASTE DEPARTMENT DIVISION	PROJECT NO. 1000 INTERCEPTOR RIVER CROSSING	DATE: 1976 DRAWN BY: [Name] CHECKED BY: [Name]	685
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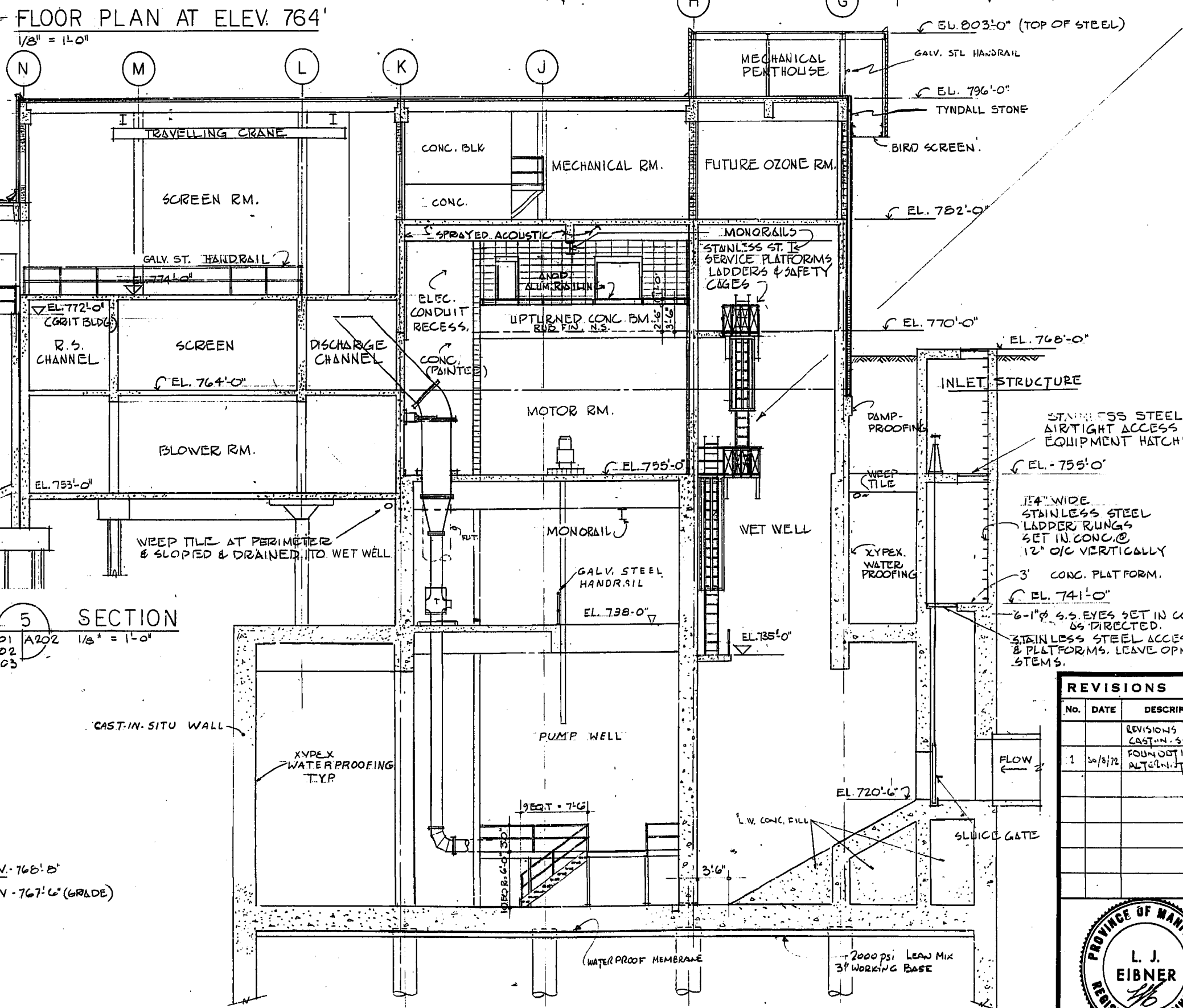
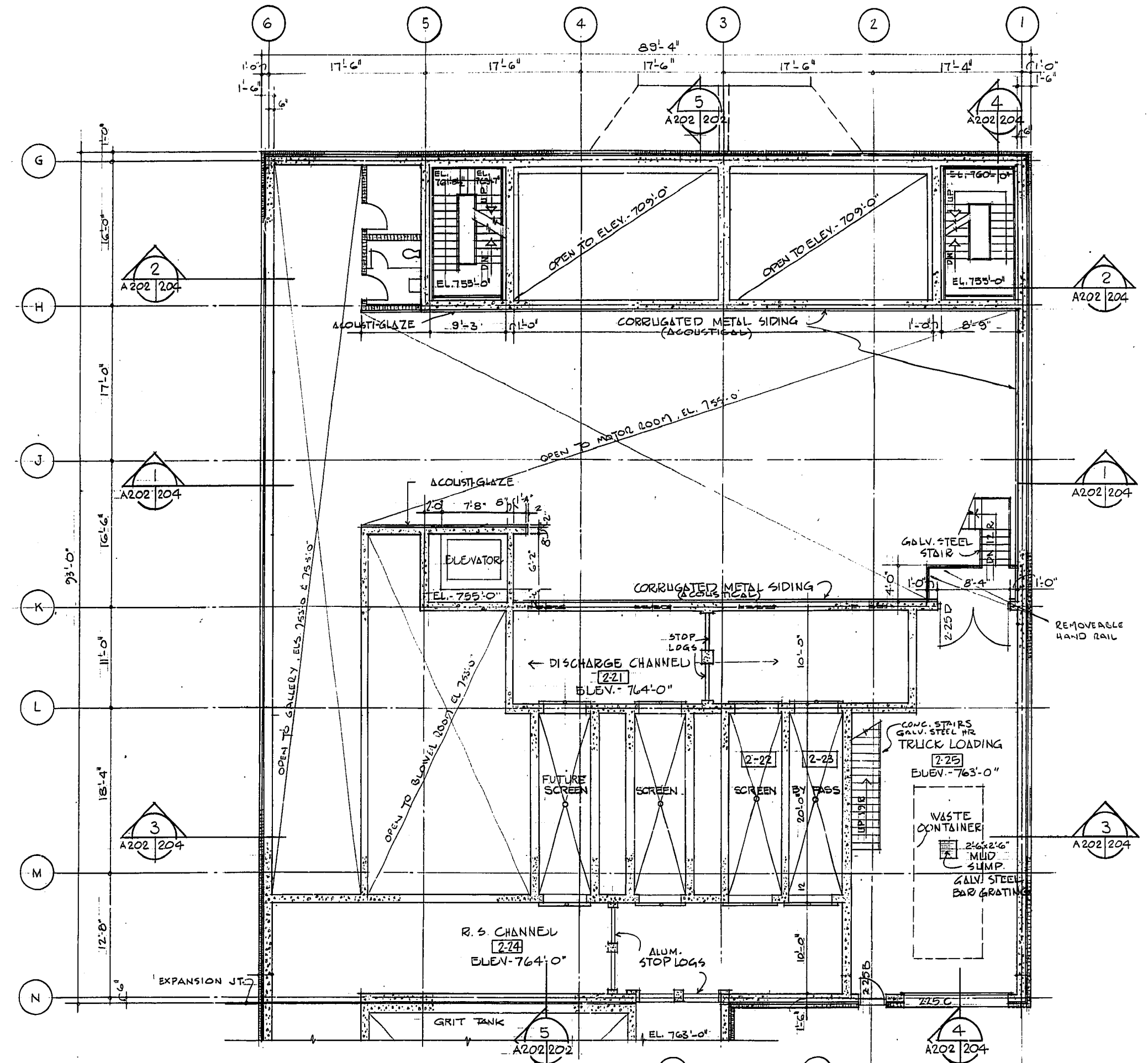
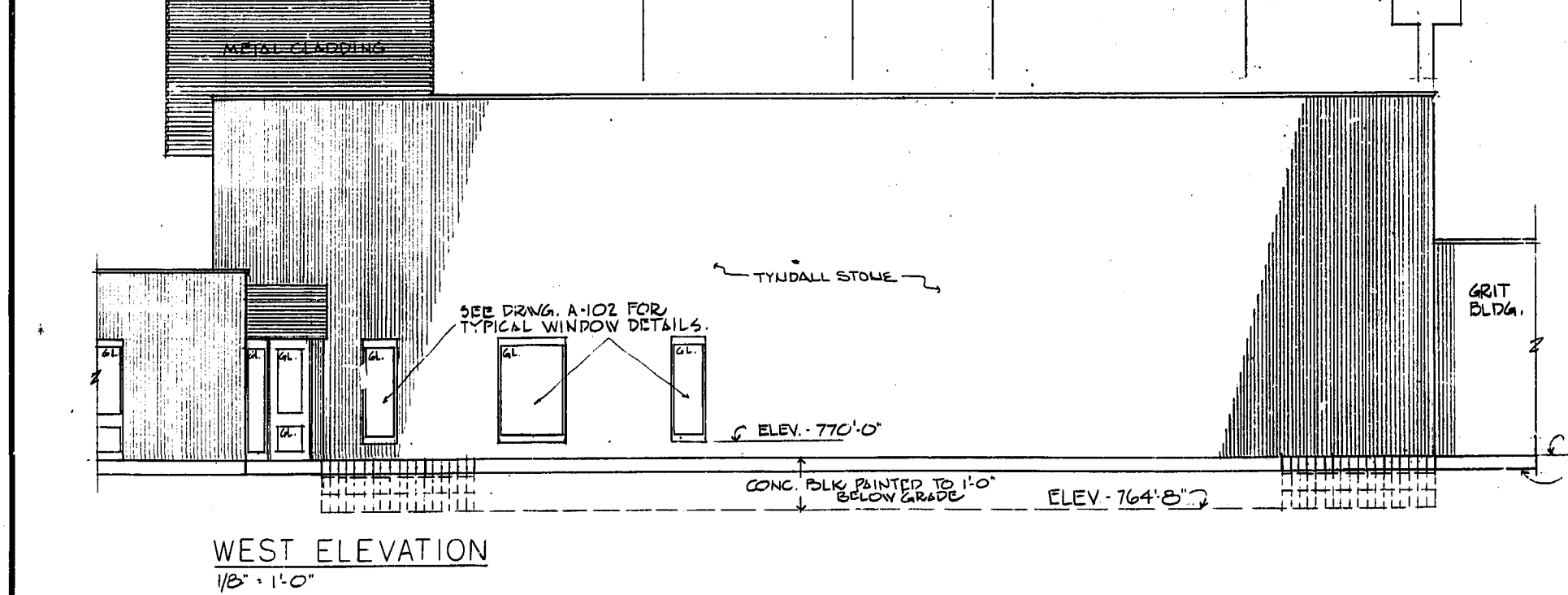
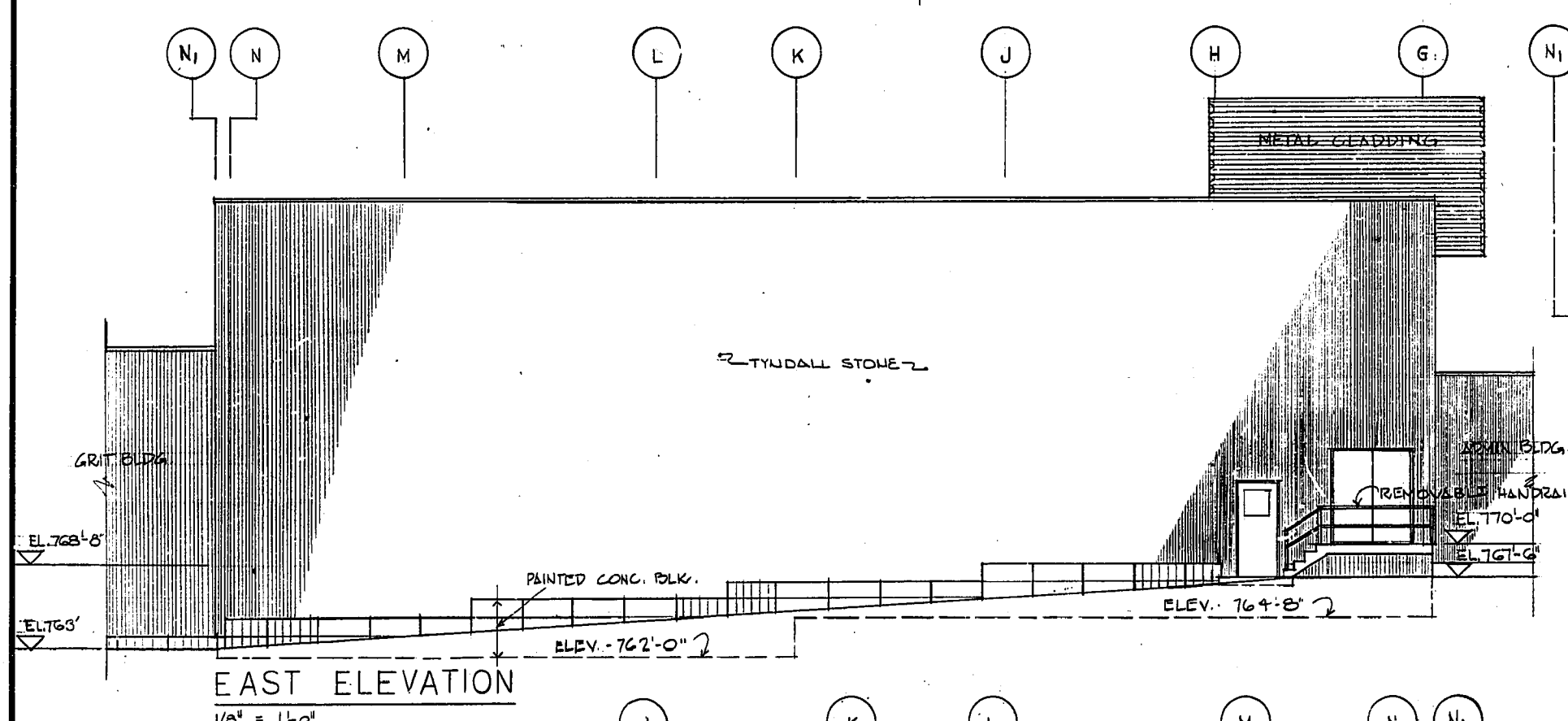
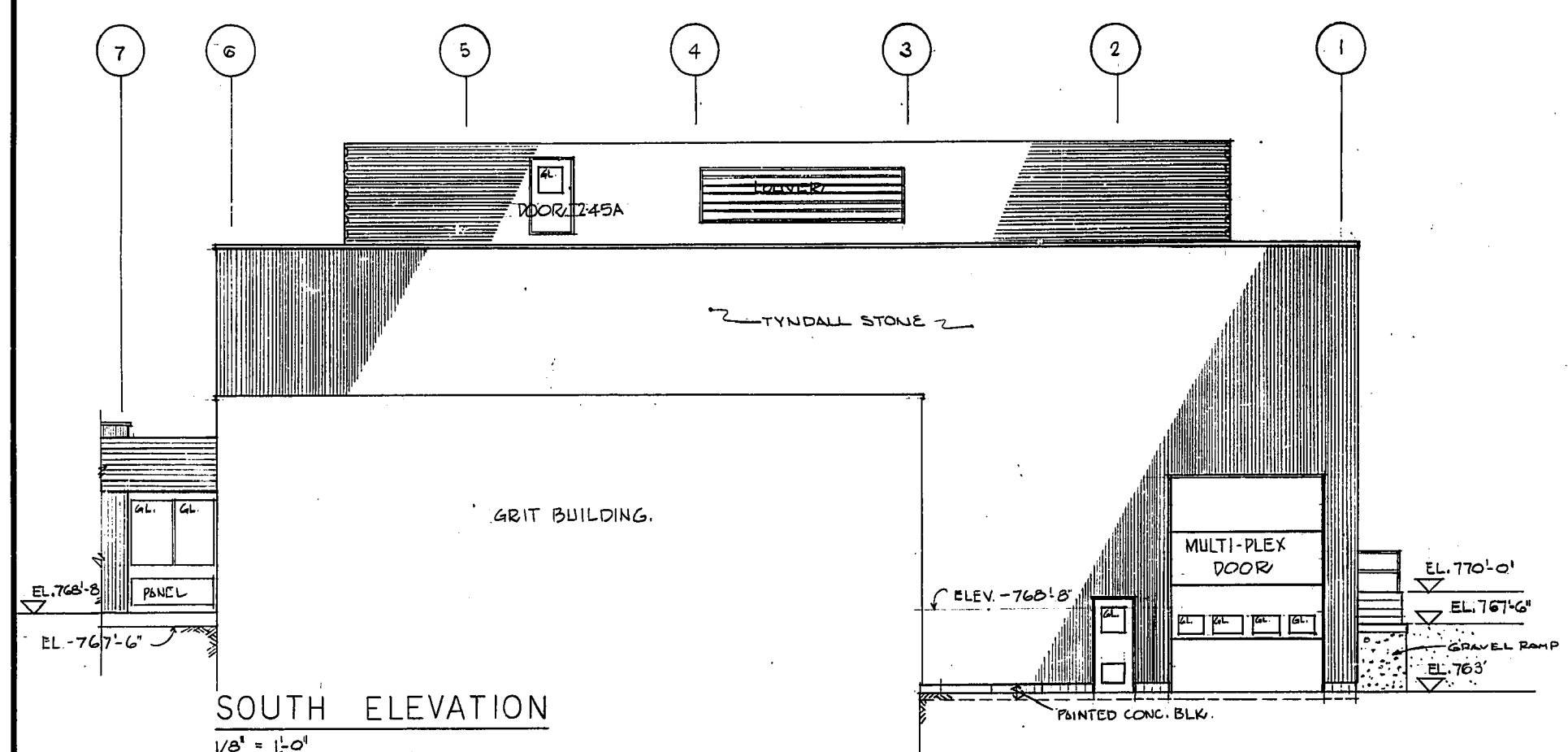
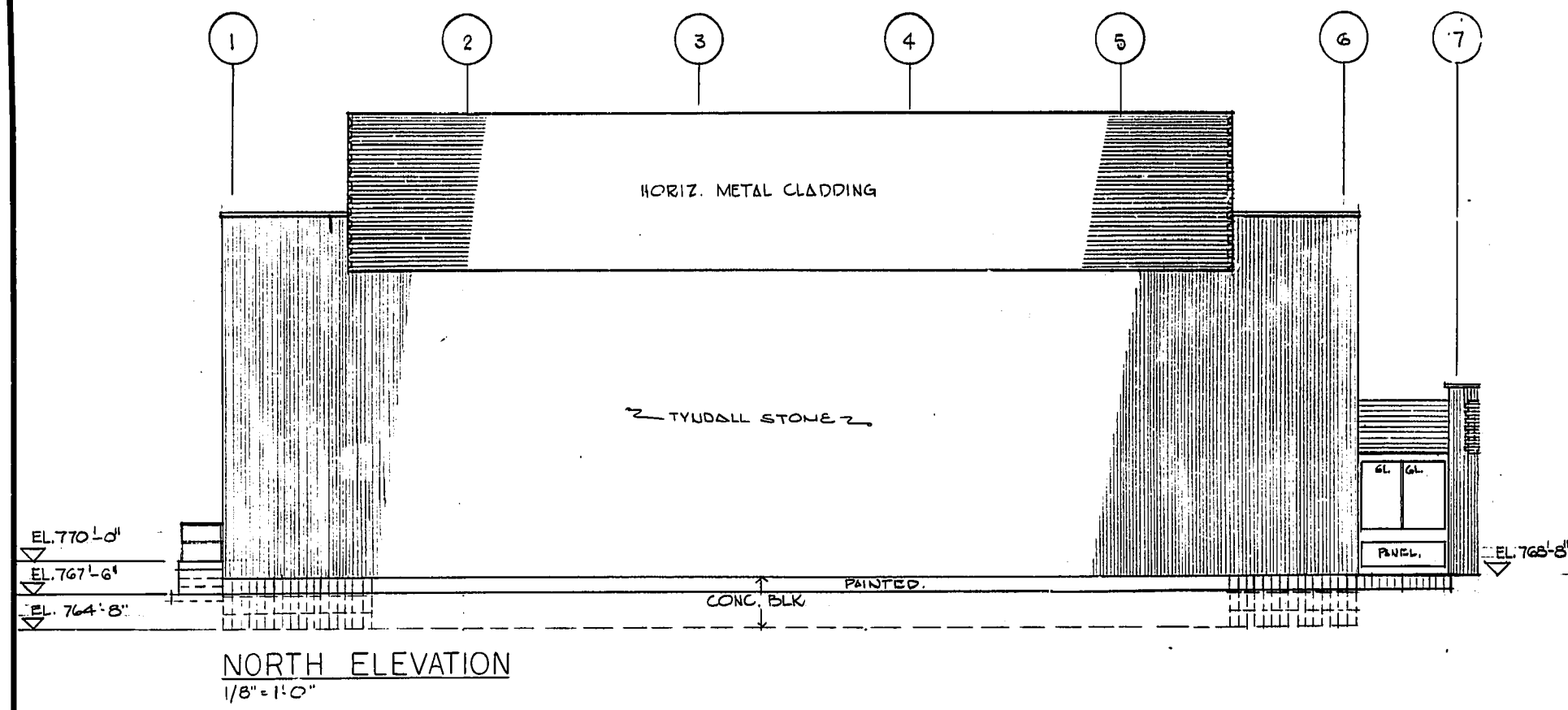


AS - BUILT  
DATE: 20774  
FB. NO. PAGE

REVISIONS		THE METROPOLITAN CORPORATION OF GREATER WINNIPEG WATERWORKS & WASTE DISPOSAL DIVISION A. PENMAN - DIRECTOR	
No.	DATE	DESCRIPTION	
1	5/20/74	REVISIONS TO 5017 CONC. INT. SITU FOR ADDITIONAL ALTERNATIVE	

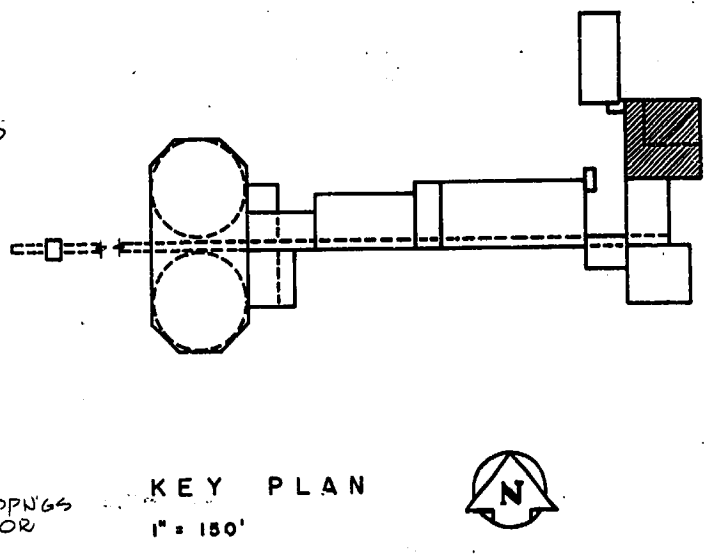
  

<b>W. L. WARDROP &amp; ASSOCIATES LTD.</b> ENGINEERING CONSULTANTS WINNIPEG THUNDER BAY REGINA TORONTO		<b>ENGINEER OF DESIGN</b> B. RUSZIGSKA	
<b>SOUTH END WATER POLLUTION CONTROL CENTRE</b>		<b>ENGINEER OF OPERATIONS</b>	
PUMP & SCREEN BLDG. - STRUCTURAL INTAKE STRUCTURE DETAILS			
SCALE: AS SHOWN	DATE: OCTOBER 1971	APPROVED (W.L.W.):	APPROVED (METRO):
W.L.W. FILE No.	DRAWING No.	S. E. P. - 29	



**STAINLESS STEEL SERVICE PLATFORM & LADDER**  
 LADDER RAILS 2" x 3/8" 16" CL  
 RUNGS 3/4" x 1/2" @ 12" O.C. 6" FROM WALL  
 CAGE HOOPS 2" x 1/2" 5" O.C. 28" INT. DIAM.  
 SLATS 1 1/2" x 3/8" 5 REQ'D EA. SPACING  
 WALL BRACKETS FOR LADDER 10'-0" O.C. MAX.  
 PLATFORM 3'-0" WIDE:  
 BRACKETS 2 x 2 1/2 x 2 1/2  
 PLATFORMS 35 REQ. NET. (WELDED) OR EQUIV.  
 2 x 2 x 1/4 x 2 1/2 18" O.C.  
 RAILINGS 3'-6" HIGH:  
 RBTS. 1 1/2" x 3/8" SS PIPE  
 TOP & INTERMEDIATE RAILS 1 1/2" x 3/8" SS PIPE

AS - BUILT		
DATE	FB. NO.	PAGE
MAY 1974		



REVISIONS		
No.	DATE	DESCRIPTION
1	10/17/71	REVISIONS TO SWP FOUNDATION
2	11/17/71	FOUNDATION ALTERATIONS

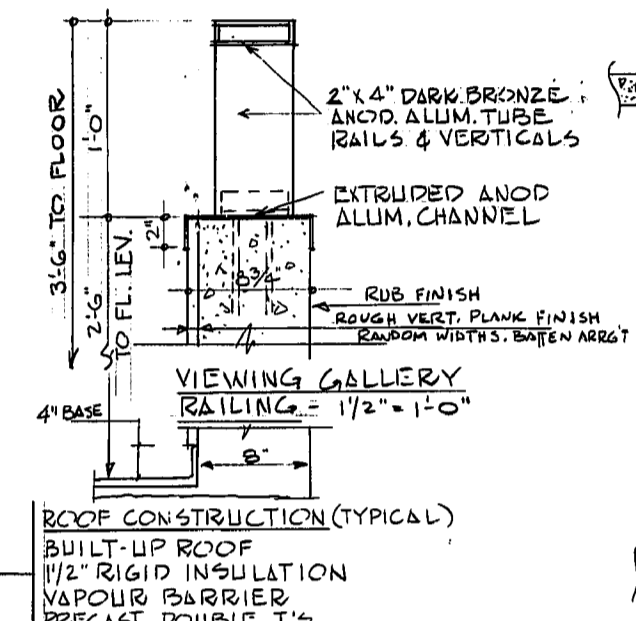
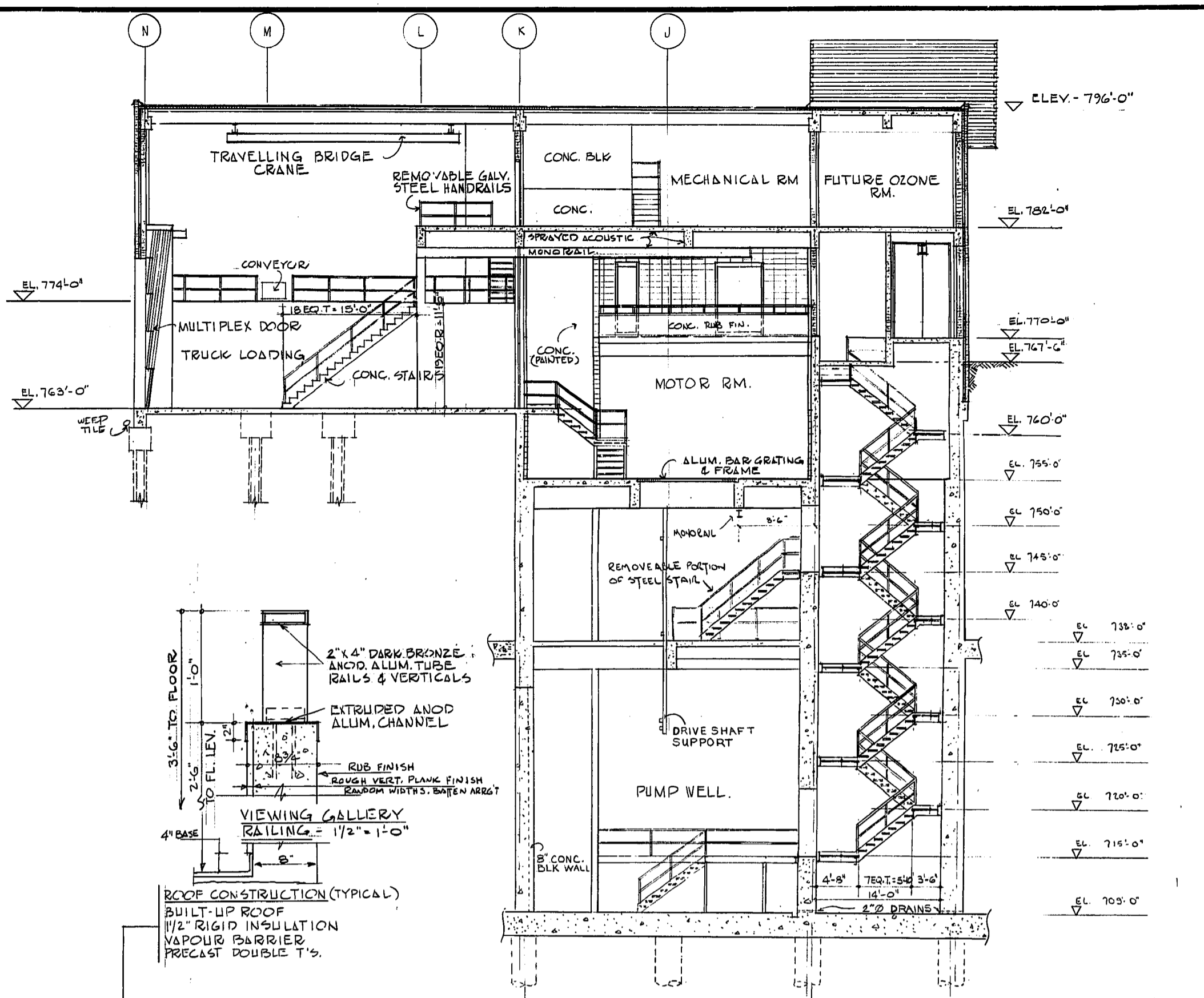
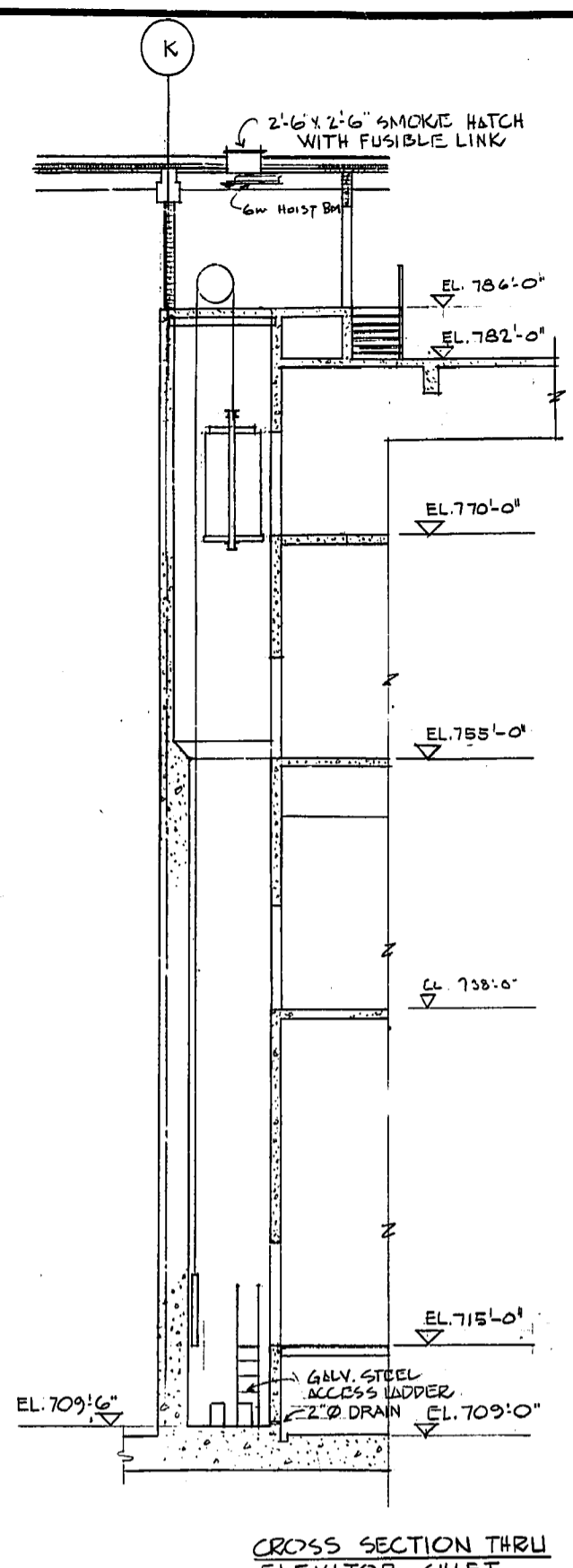
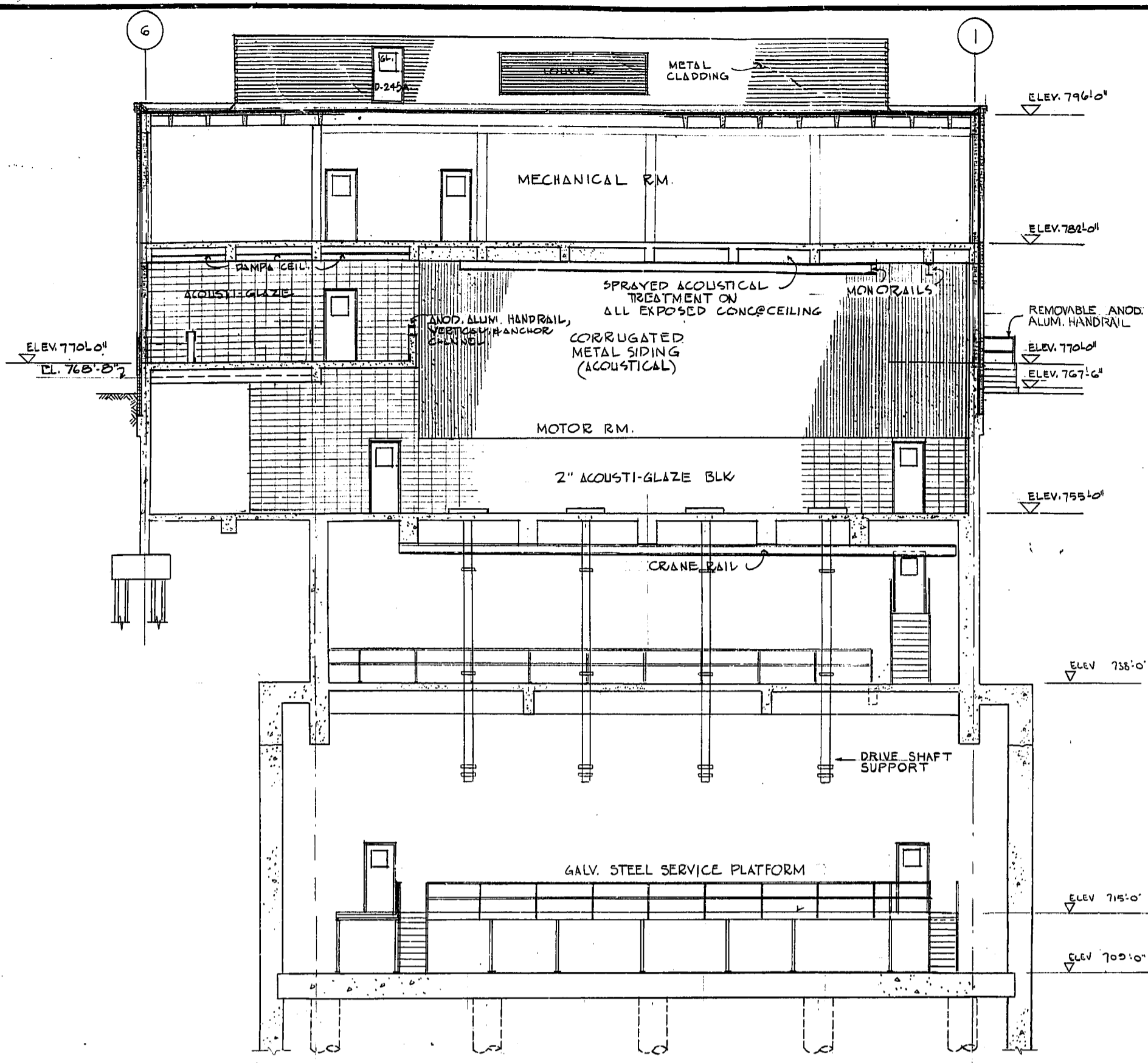
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG  
 WATERWORKS & WASTE DISPOSAL DIVISION  
 A. PENMAN - DIRECTOR  
 MICROFILMED MAR 31 1980

**W.L. WARDROP & ASSOCIATES LTD.**  
 ENGINEERING CONSULTANTS  
 WINNIPEG - THUNDER BAY - REGINA - TORONTO

**SOUTH END WATER POLLUTION CONTROL CENTRE**  
 PUMP & SCREEN BLDG. ARCHITECTURAL FLOOR PLAN ELEV. 764' BLDG. ELEVATIONS

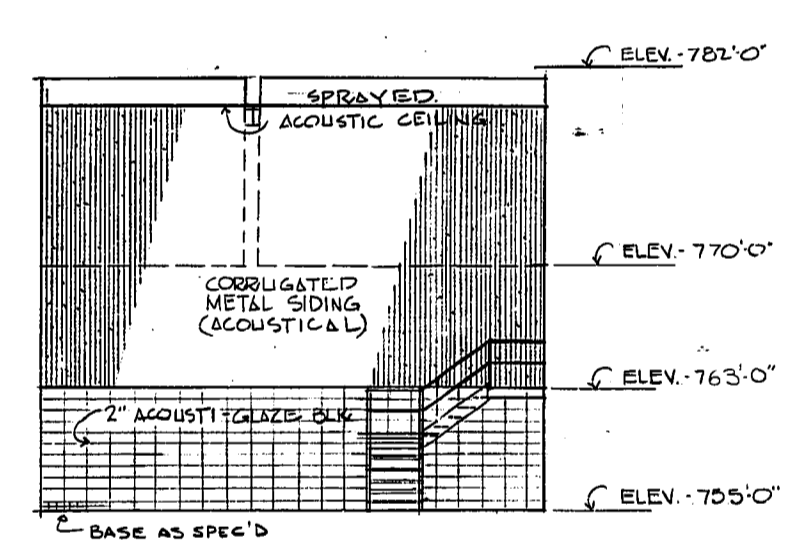
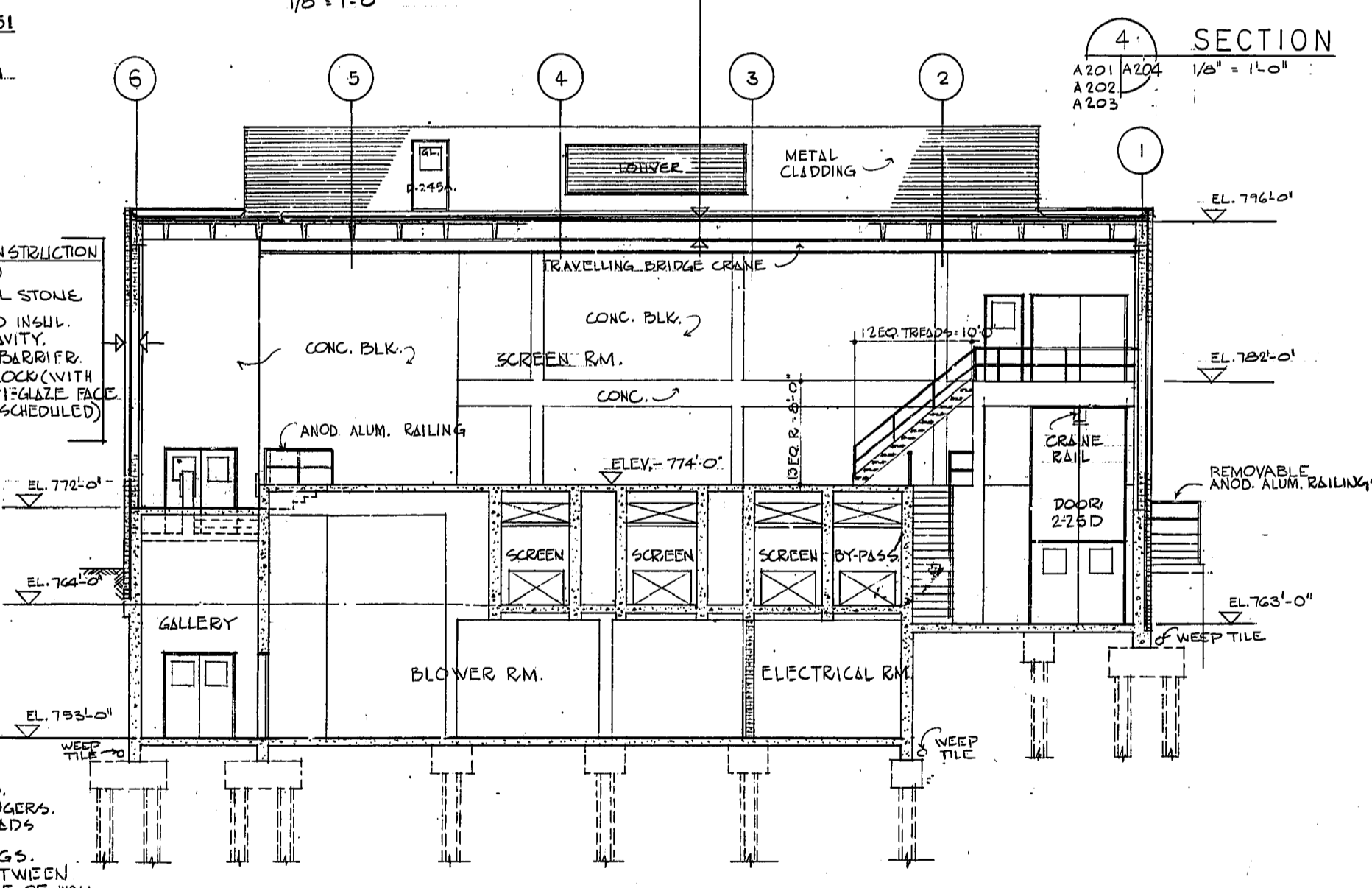
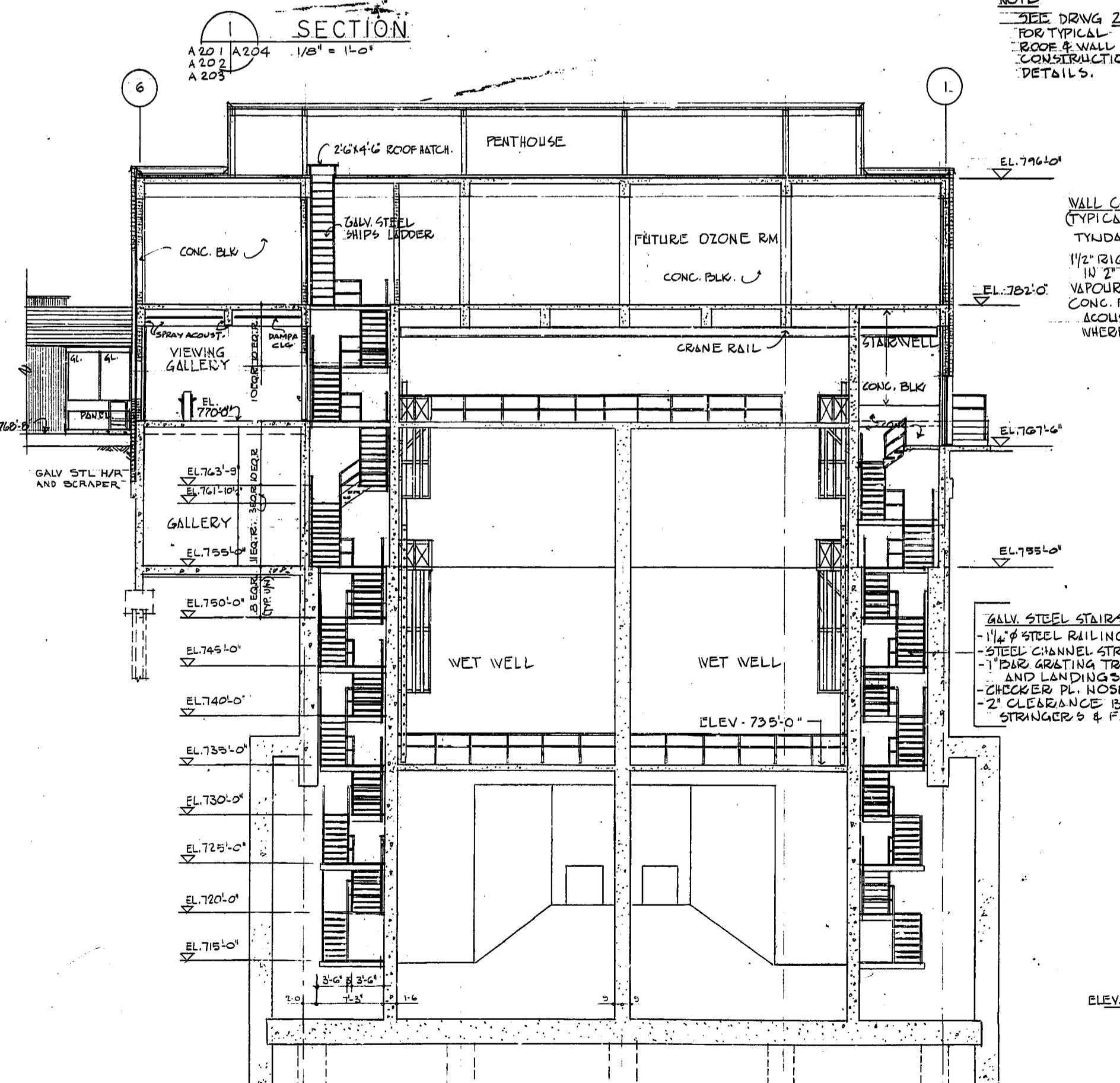
SCALE: AS SHOWN  
 DATE: OCTOBER 1971.  
 APPROVED (W.L.W.)  
 W.L.W. FILE NO.  
 70012-01-A202

ENGINEER OF DESIGN  
 ENGINEER OF OPERATIONS  
 APPROVED (MSTRO)  
 DRAWING NO.  
 S.E.P. - 20



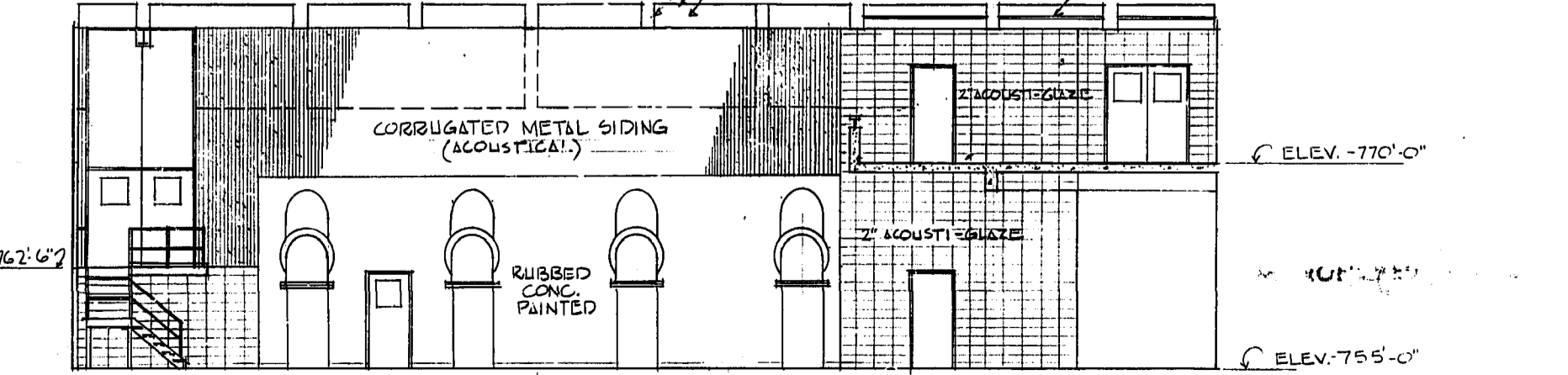
CROSS SECTION THRU ELEVATOR SHAFT. 1/8" = 1'-0"

NOTE SEE DRWG Z-51 FOR TYPICAL ROOF & WALL CONSTRUCTION DETAILS.



ELEVATION OF EAST WALL IN MOTOR RM. SCALE - 1/8" = 1'-0"

3. SECTION A201 A204 1/8" = 1'-0" A202 A203



ELEVATION OF SOUTH WALL IN MOTOR RM. 1/8" = 1'-0"

4. SECTION A201 A204 1/8" = 1'-0" A202 A203

KEY PLAN 1" = 150'

REVISIONS		THE METROPOLITAN CORPORATION OF GREATER WINNIPEG WATERWORKS & WASTE DISPOSAL DIVISION	
No.	DATE	DESCRIPTION	A. PENMAN - DIRECTOR
1	04/17/74	REVISIONS TO SHOP DRAWINGS TO SHOW FOUNDATION & UTILITY	

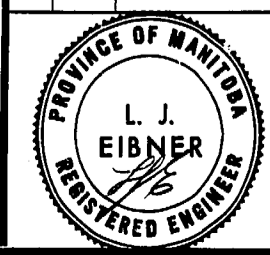
W. L. WARDROP & ASSOCIATES LTD. ENGINEERING CONSULTANTS WINNIPEG - THUNDER BAY - REGINA - TORONTO

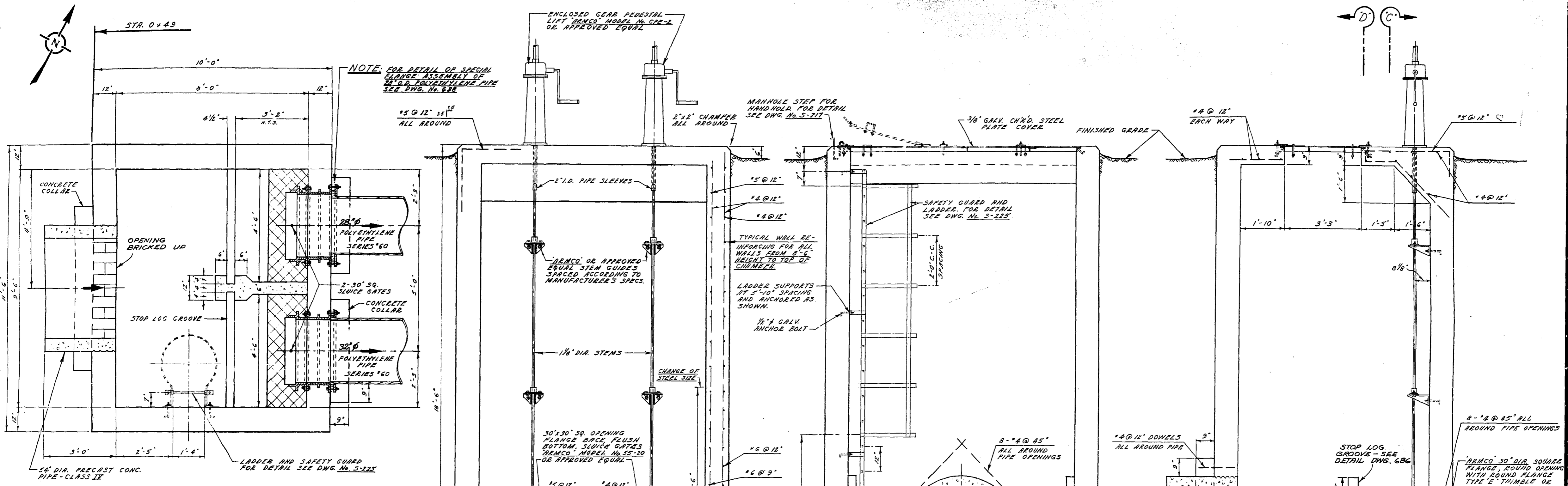
**SOUTH END WATER POLLUTION CONTROL CENTRE**  
PUMP & SCREEN BLDG. ARCHITECTURAL BUILDING SECTIONS

SCALE: AS SHOWN  
DATE: OCTOBER 1971  
APPROVED (W.L.W.): *W. L. Wardrop*  
W.L.W. FILE NO. 70012-01-A204

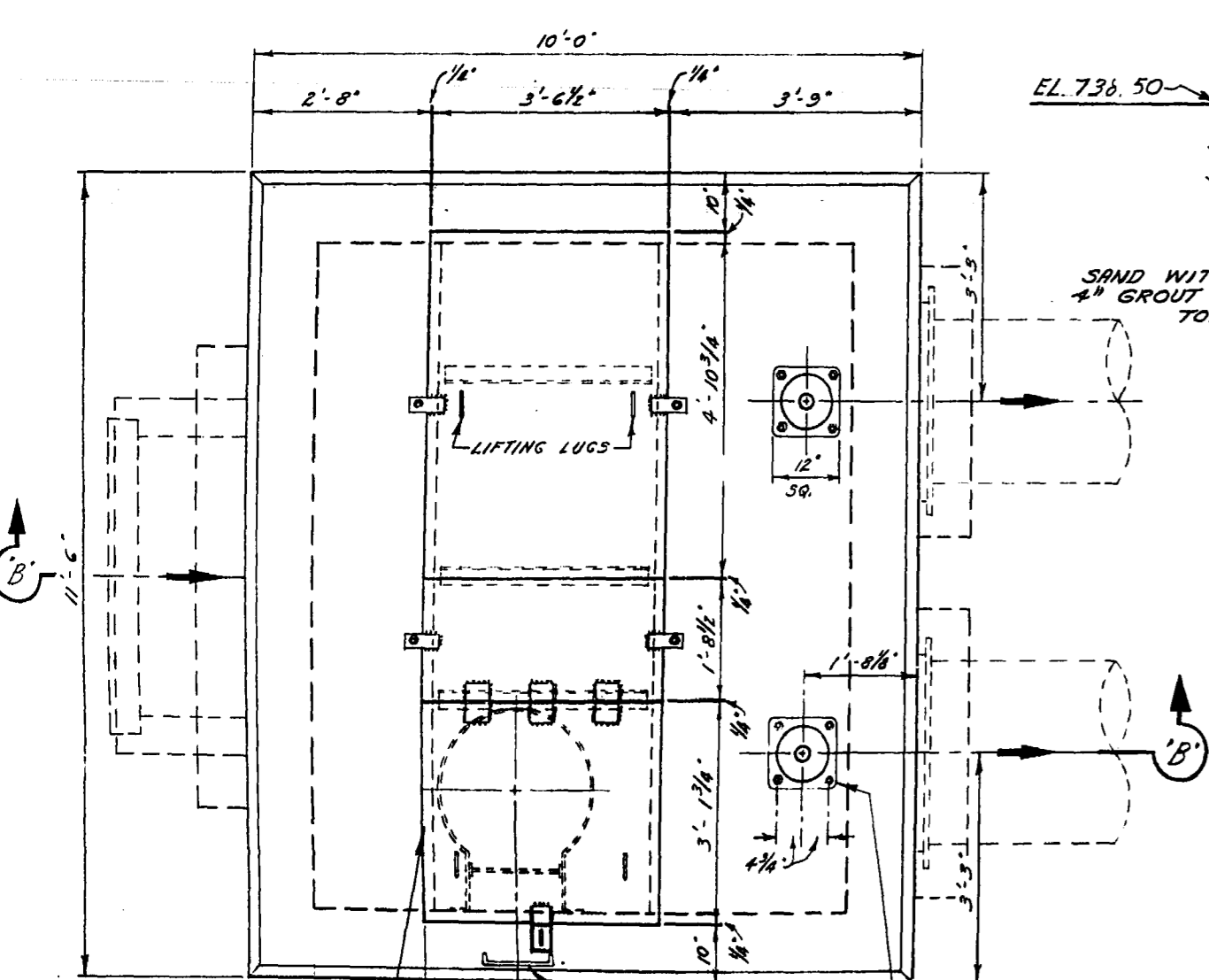
ENGINEER OF DESIGN: *L. J. Eibner*  
ENGINEER OF OPERATIONS: *W. L. Wardrop*  
DRAWING NO. S. E. P. - 22

AS - BUILT  
DATE FEB. NO. PAGE  
MAY 1974

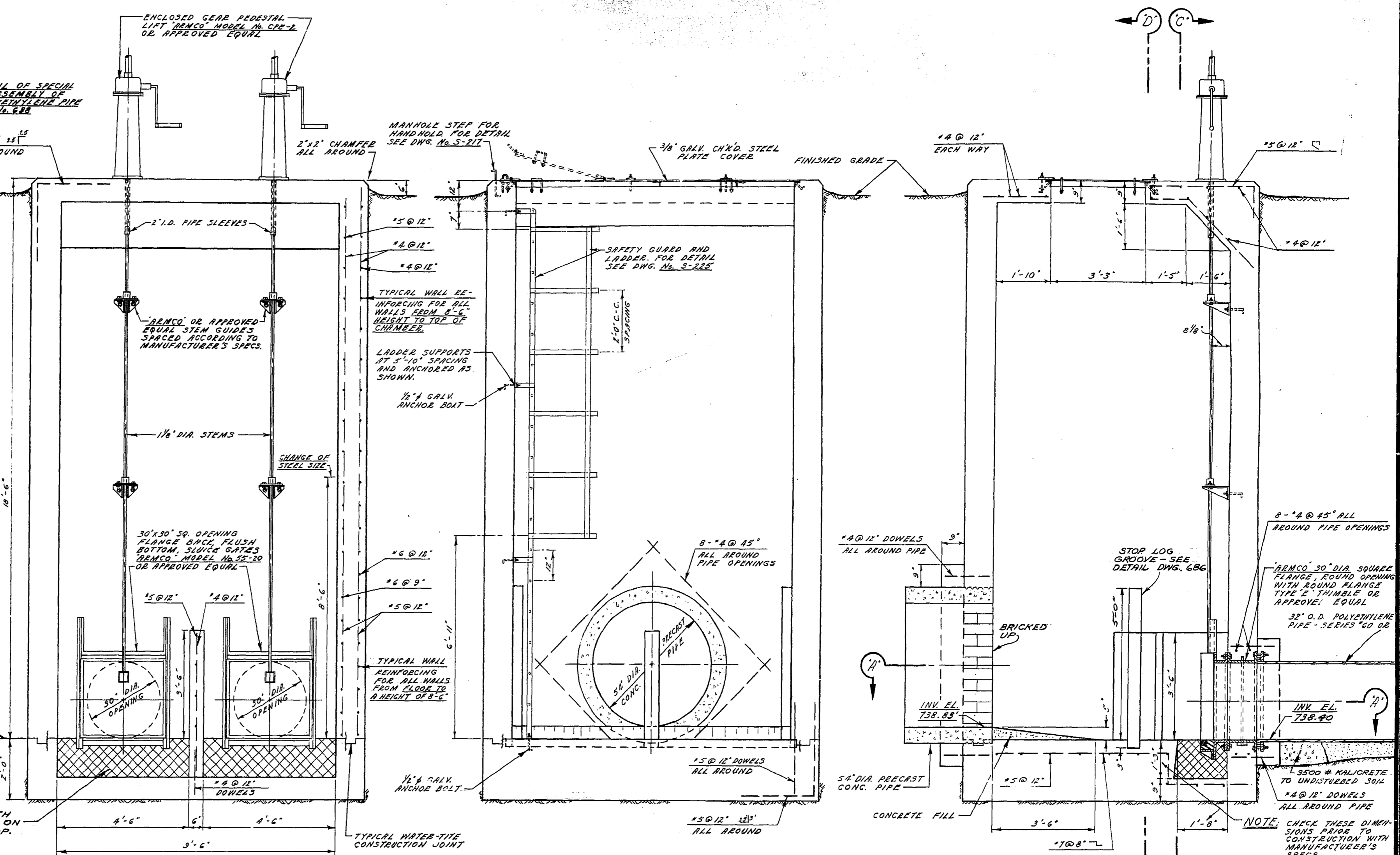




**SEC. 'A'-'A'**  
**FLOOR PLAN**

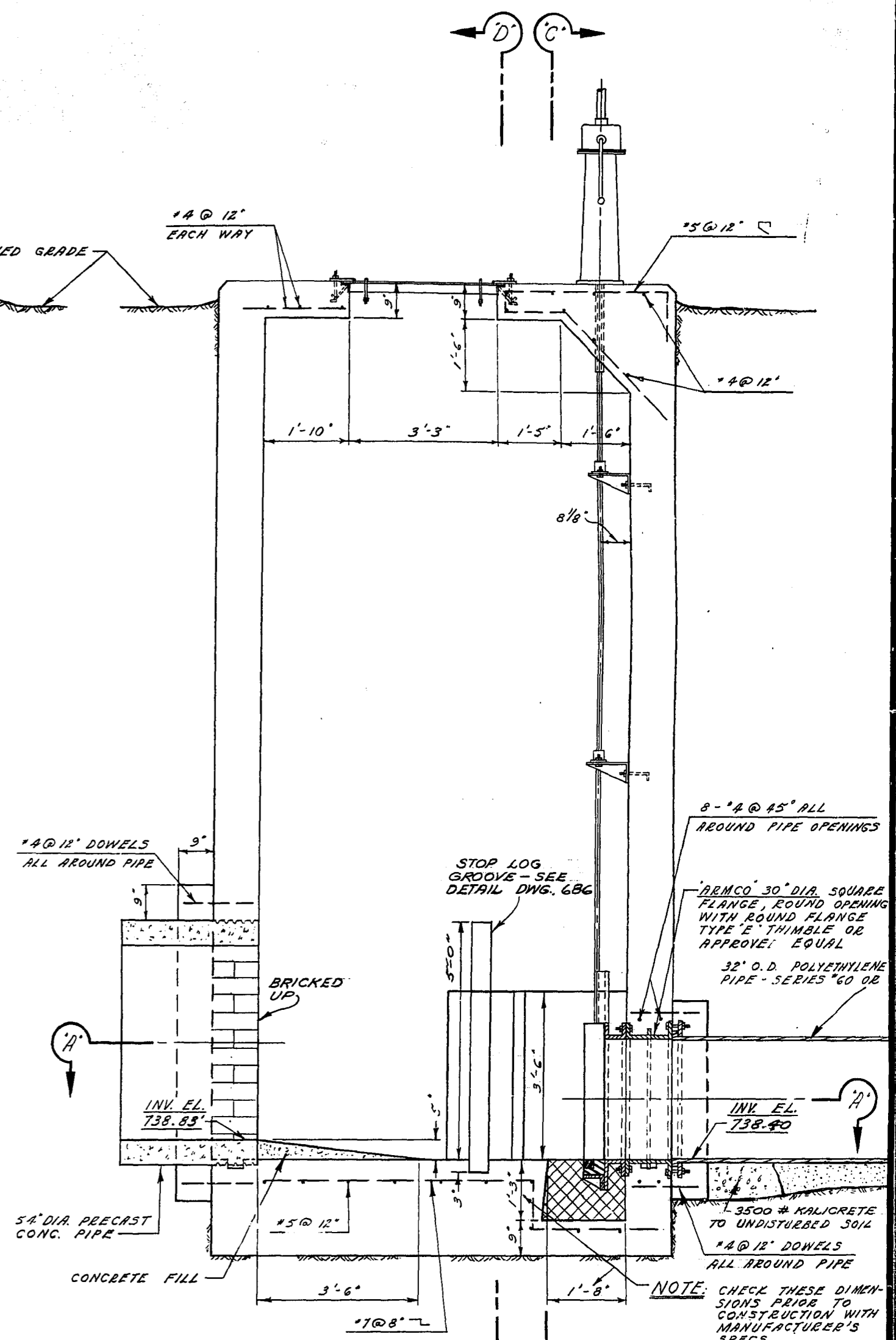


**ROOF PLAN**

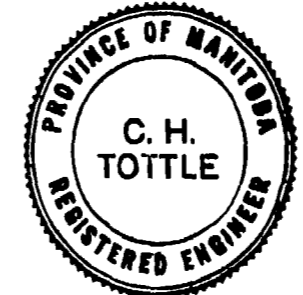


**SEC. 'C'-'C'**

**SEC. 'D'-'D'**



**SEC. 'B'-'B'**



THE METROPOLITAN CORPORATION  
OF GREATER WINNIPEG  
**WATERWORKS & WASTE  
DISPOSAL DIVISION**  
A. PENMAN - DIRECTOR

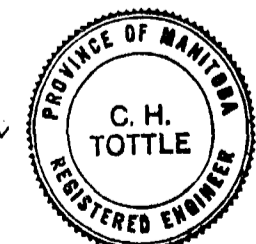
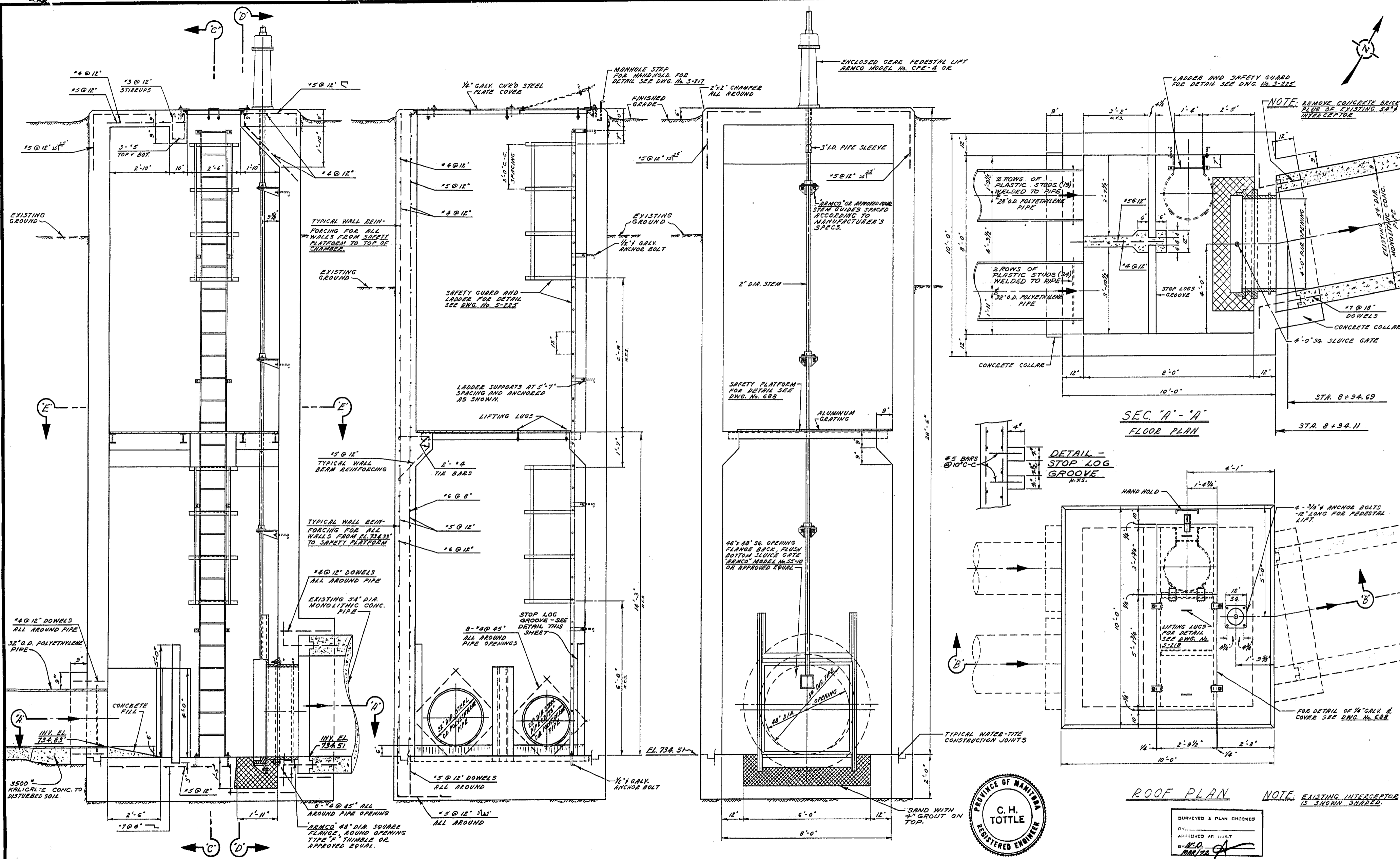
SEWAGE DISPOSAL DEPT.  
FT. GARRY - ST. VITAL INTERCEPTOR  
RIVER CROSSING  
**SIPHON INLET  
CHAMBER**

DES. *[Signature]* CHK'D *[Signature]*  
DRN. *[Signature]* DATE 28 SEPT. 70  
ENG. DES. *[Signature]*  
ENG. OPER. *[Signature]*  
APP. *[Signature]*

SCALE  
1/2" = 1'-0"  
DRAWING NO.  
**687**

**SURVEYED & PLAN CHECKED**  
BY: *[Signature]*  
APPROVED AS BUILT  
BY: *[Signature]*  
DATE: *[Signature]*





BURVEYED & PLAN CHECKED  
 BY: [Signature]  
 APPROVED AS BUILT  
 BY: [Signature]  
 MAR/22

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG <b>WATERWORKS &amp; WASTE          DISPOSAL DIVISION</b> A. PENMAN - DIRECTOR	SEWAGE DISPOSAL DEPT. FT. GARRY - ST. VITAL INTERCEPTOR RIVER CROSSING <b>SIPHON OUTLET          CHAMBER</b>	DES. <i>[Signature]</i> DRN. <i>[Signature]</i> DATE 23 SEPT. 70 ENG. DES. <i>[Signature]</i> ENG. OPEN. <i>[Signature]</i> APPROVED <i>[Signature]</i>	SCALE 1/2" = 1'-0" DRAWING NO. <b>686</b>
	NOTE: EXISTING INTERCEPTOR IS SHOWN SHADED.		
	MICROFILMED 1978		
	PROVINCE OF MANITOBA REGISTERED ENGINEER		