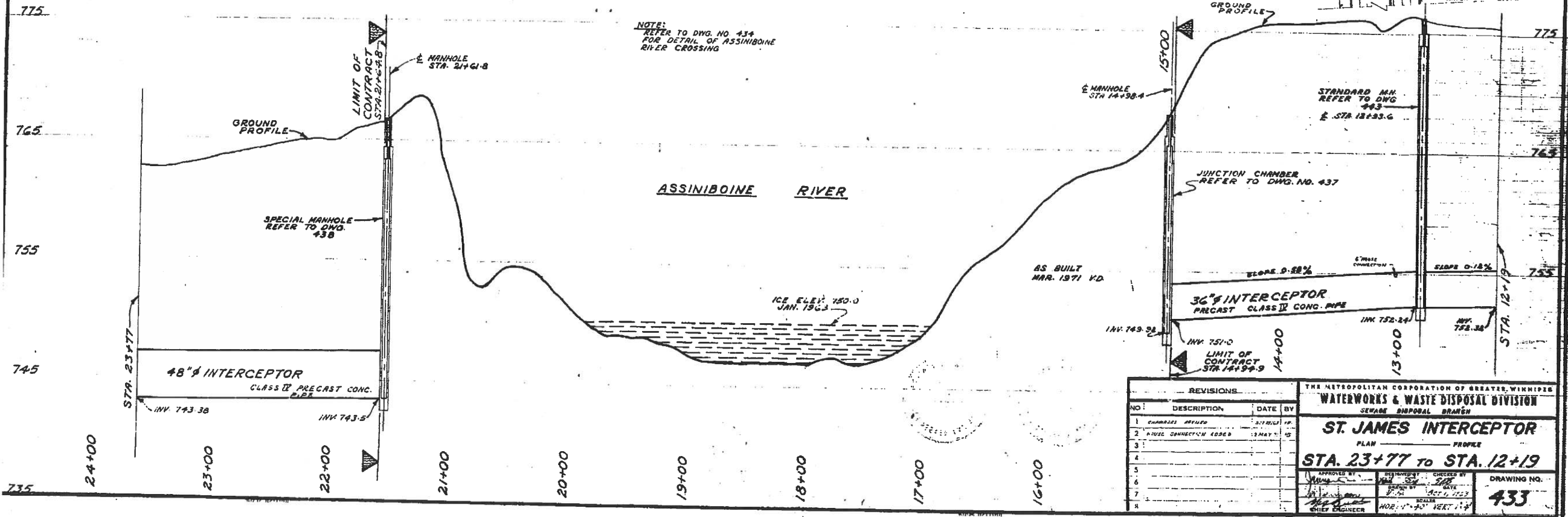
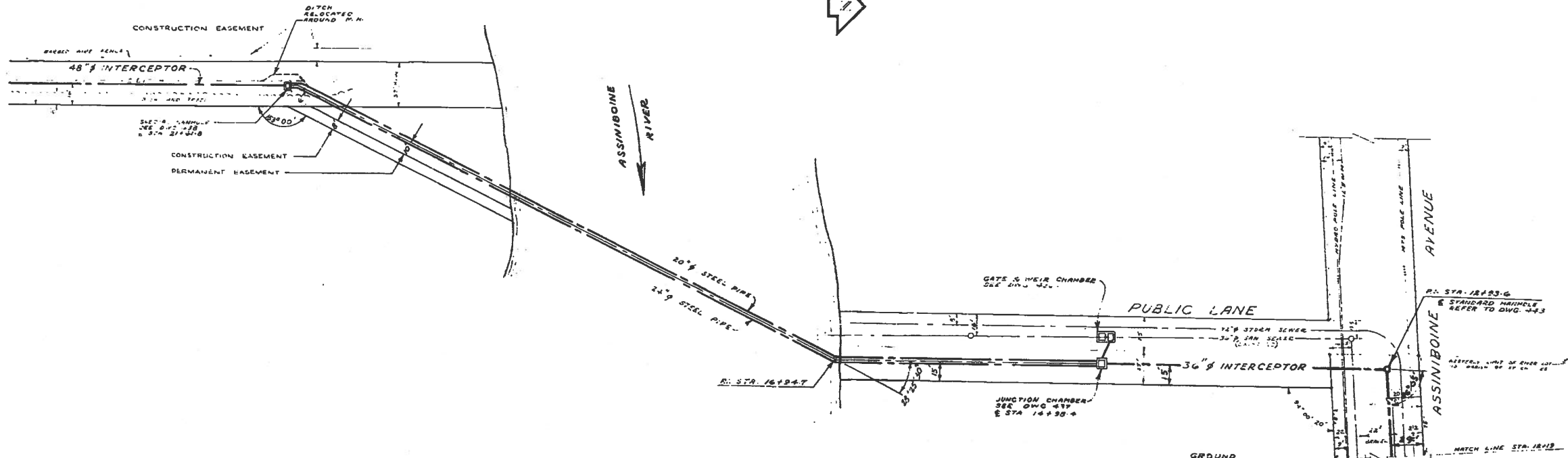


Appendix B

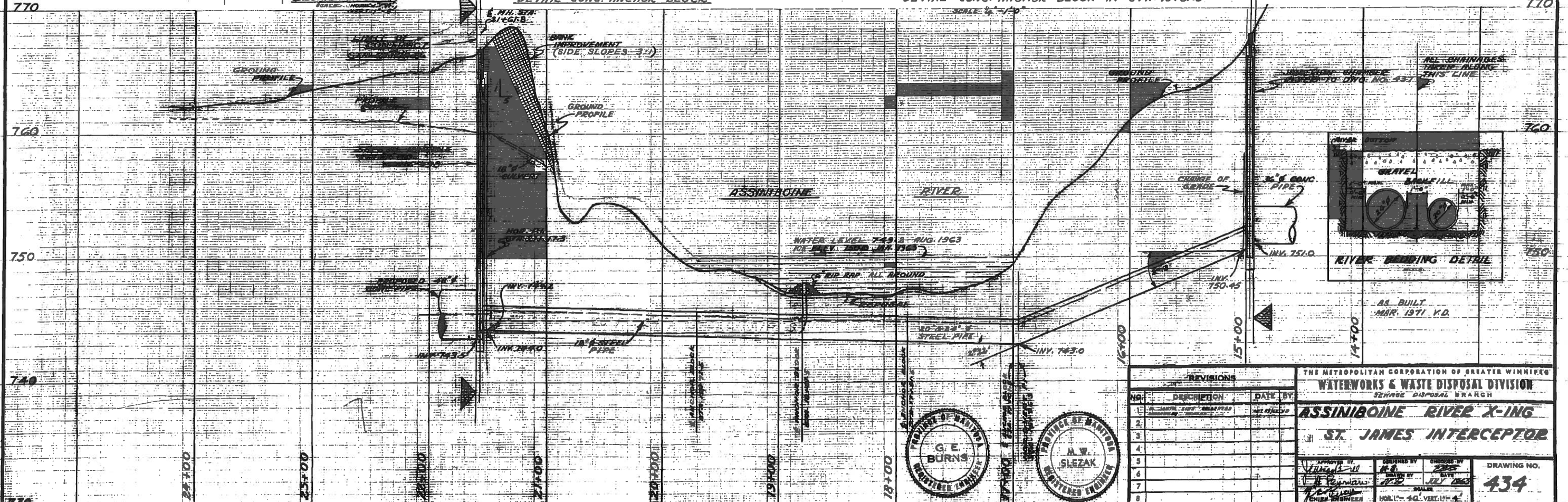
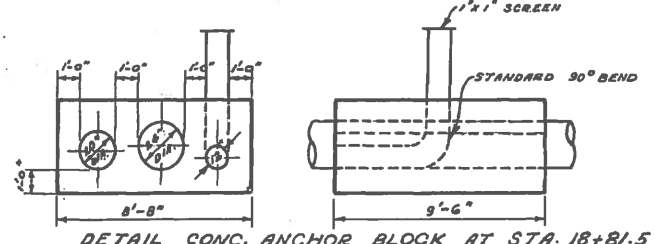
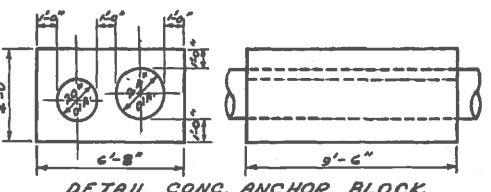
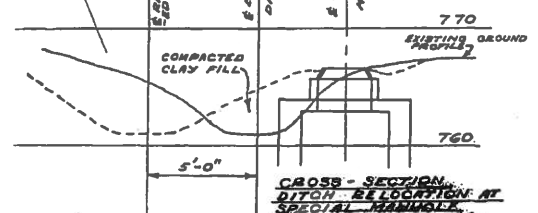
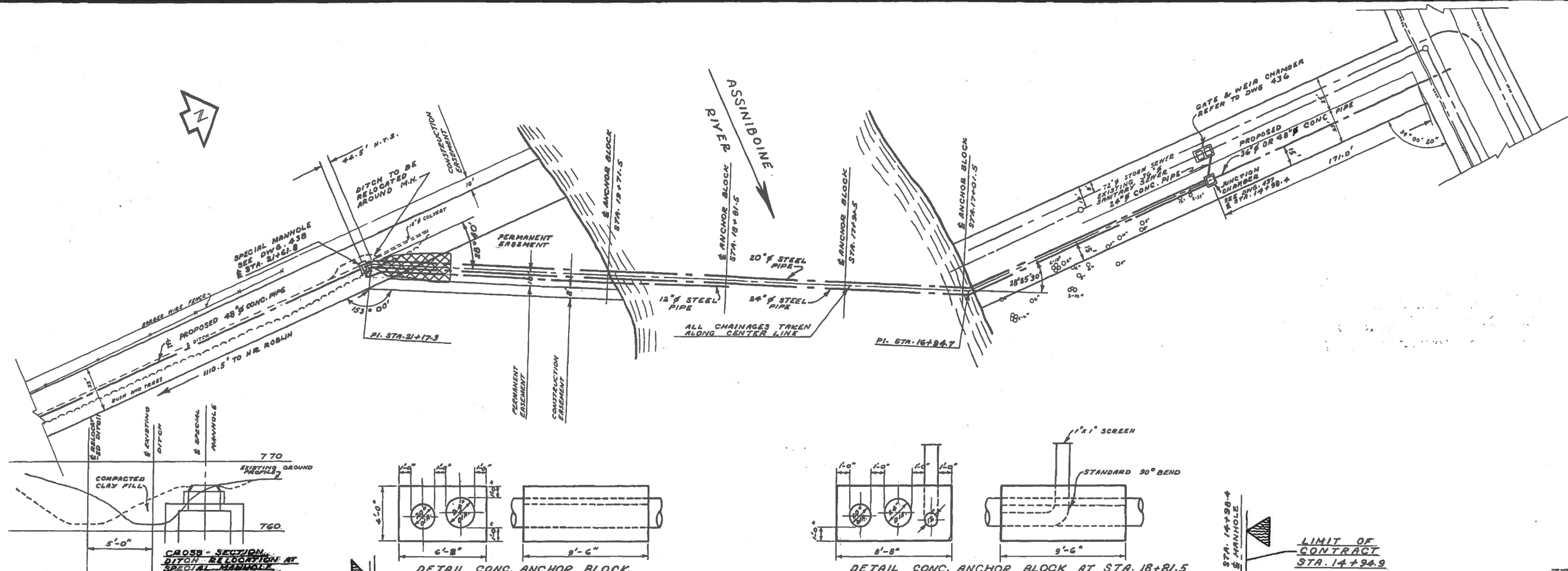
Record Drawings



REVISIONS		DATE BY	
1	CHANGES REVISED		
2	ADJUST CONNECTIONS ADDED	13 MAY 65	
3			
4			
5			
6			
7			
8			

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG			
WATERWORKS & WASTE DISPOSAL DIVISION			
SEWER DISPOSAL BRANCH			
ST. JAMES INTERCEPTOR			
PLAN			
PROJECT			
STA. 23+77 TO STA. 12+19			
APPROVED BY	DESIGNED BY	CHECKED BY	DRAWING NO.
			433
CHIEF ENGINEER	ENGINEER	SCALE	HOB. 1" = 10' H.E.T. 1/4"

694-C

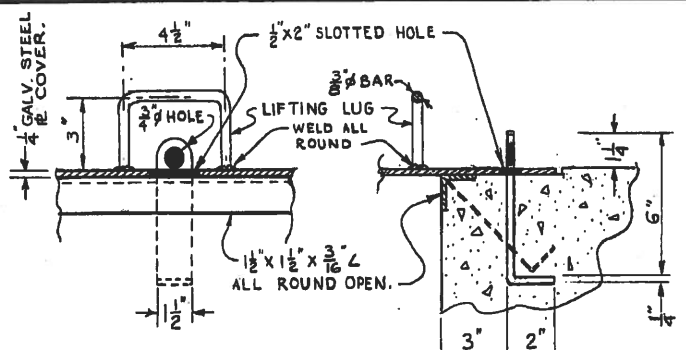
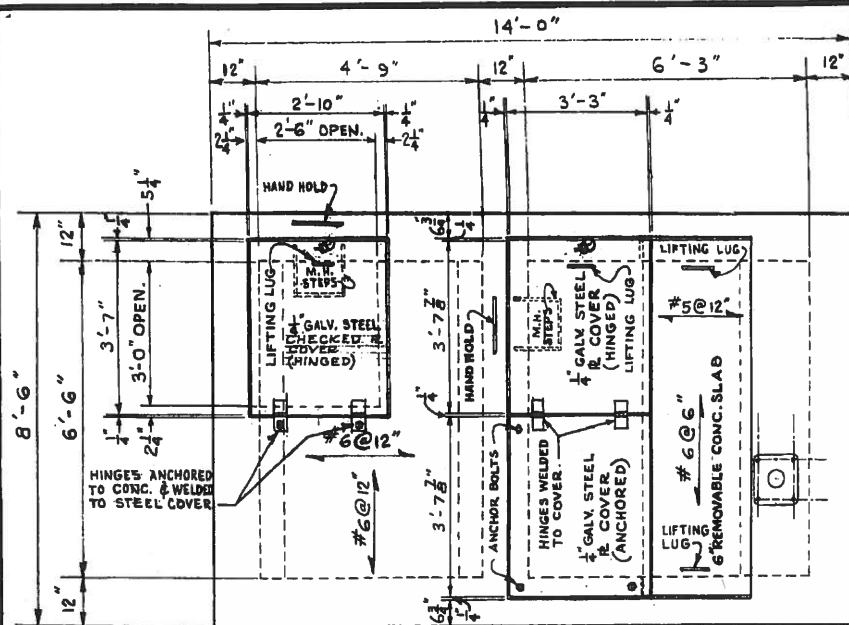


REVISIONS		
NO.	DESCRIPTION	DATE BY
1	AS BUILT	MAR 1971
2		
3		
4		
5		
6		
7		
8		

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
WATERWORKS & WASTE DISPOSAL DIVISION
 SEWER DISPOSAL BRANCH
ASSINIBOINE RIVER X-ING
ST. JAMES INTERCEPTOR

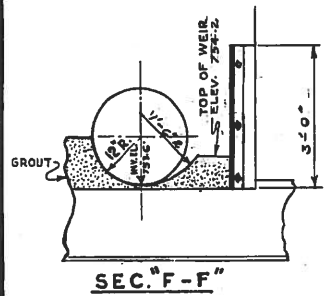
APPROVED BY: *[Signature]* CHIEF ENGINEER
 DESIGNED BY: *[Signature]*
 DRAWN BY: *[Signature]*
 JULY 1963
 SCALE: 1" = 40' VERT. 1" = 4'

DRAWING NO. **434**



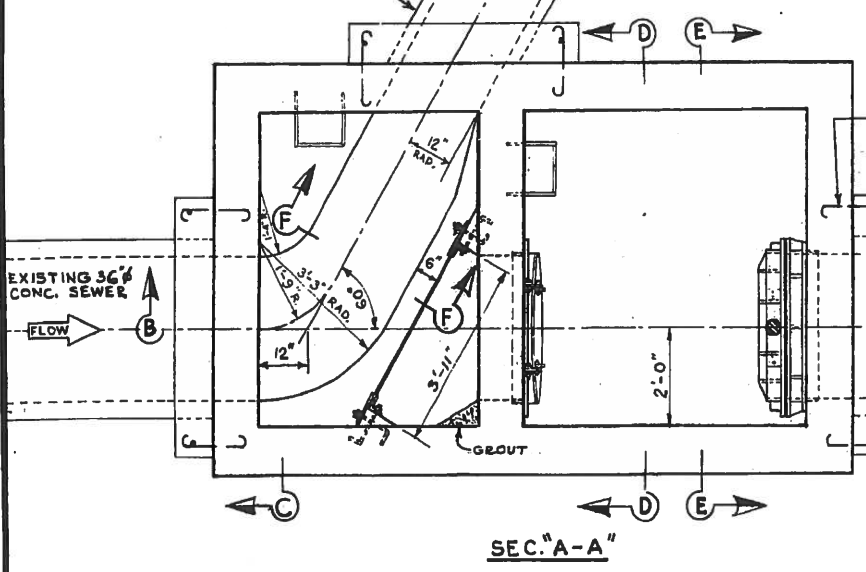
LOCKING DEVICE FOR M.H. COVERS.
SCALE 3/4" = 1'-0"

NOTE:
 ① ALL INVERTS AND ELEVATIONS TO BE CHECKED PRIOR TO CONSTRUCTION.
 ② SEE DRAWING 438 FOR LIFTING LUG DETAIL

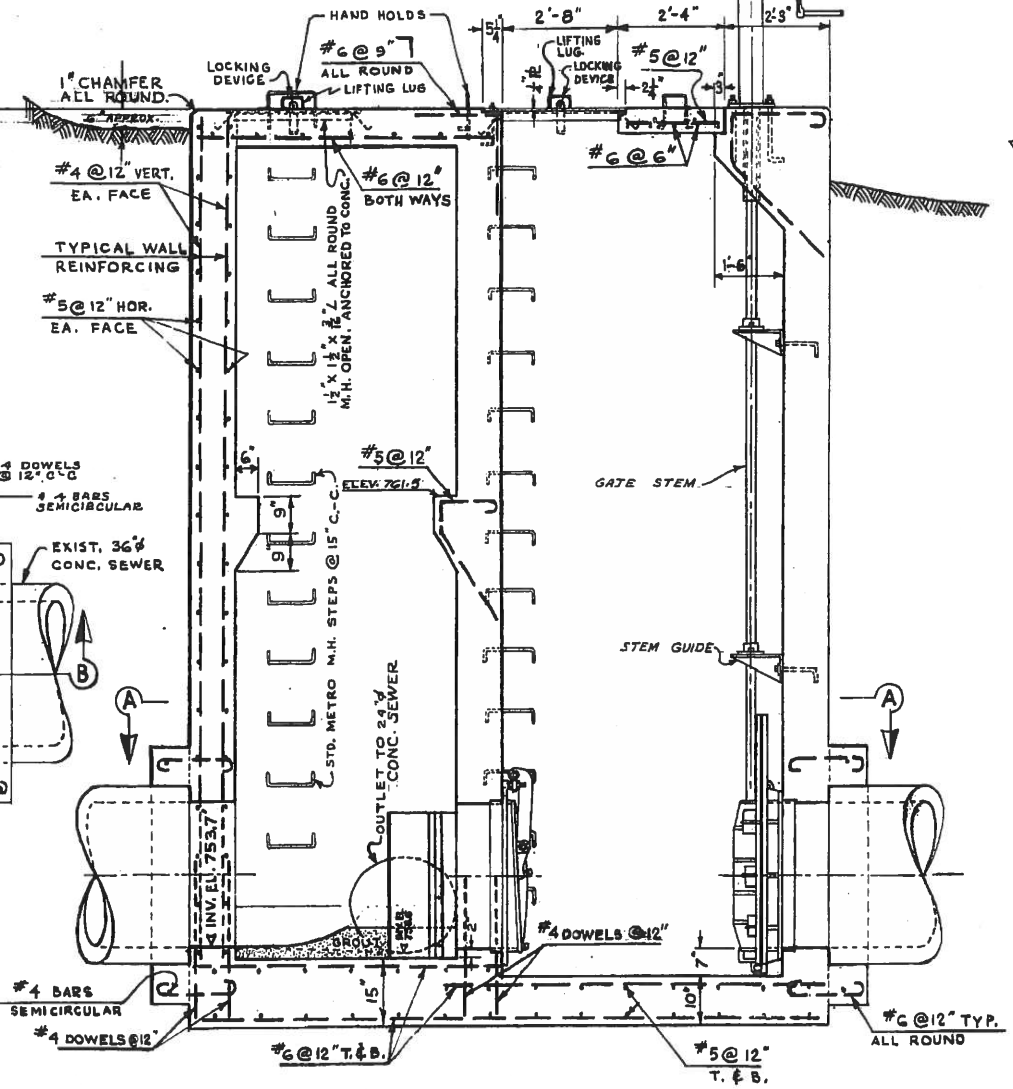


PLAN

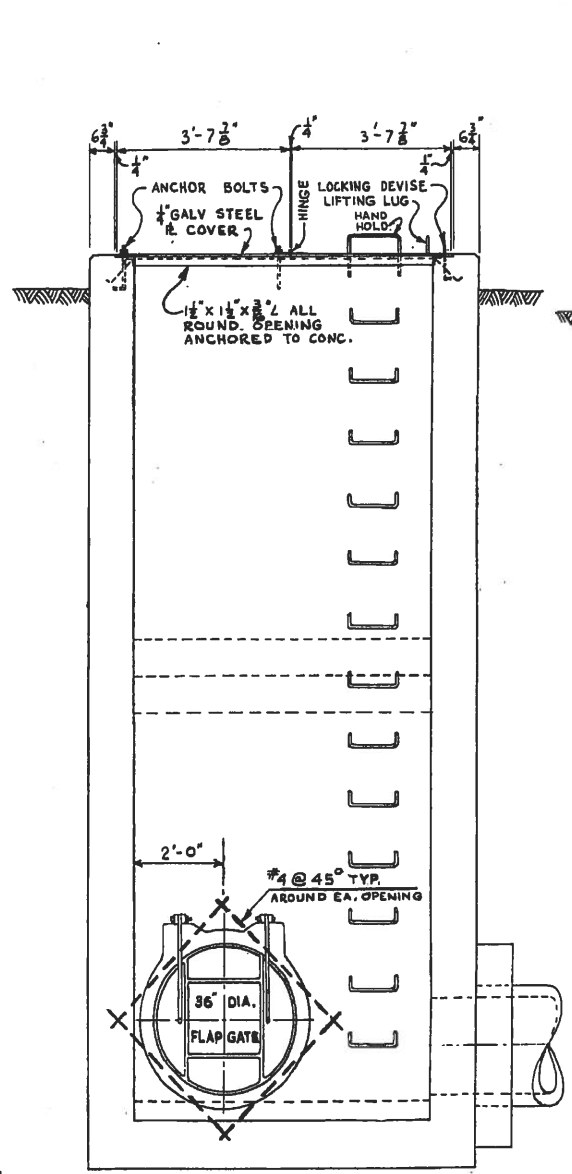
ELEV. 772.5
TOP OF CHAMBER



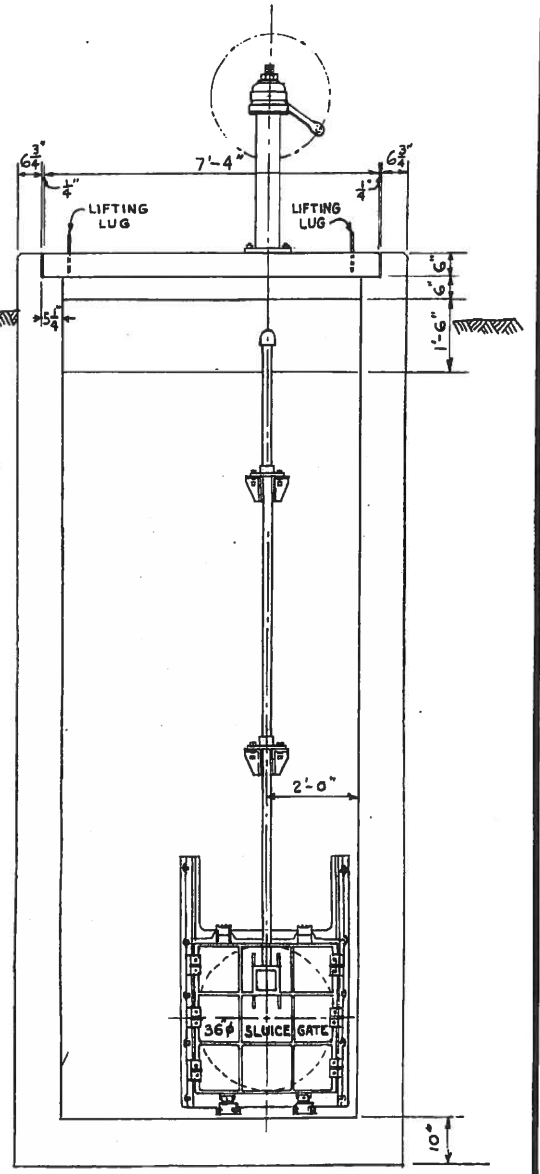
SEC. "A-A"



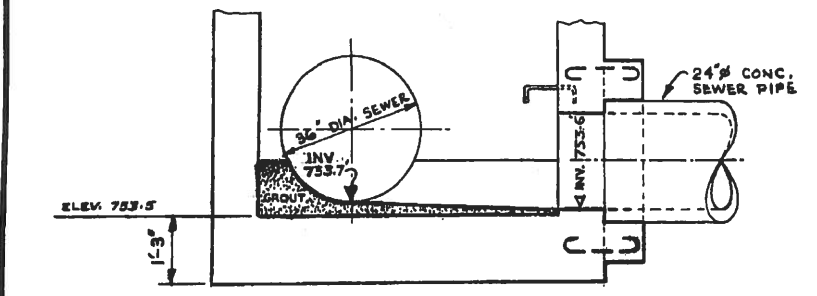
SEC. "B-B"



SEC. "D-D"



SEC. "E-E"



SEC. "C-C"

REVISIONS		
NO.	DESCRIPTION	DATE BY
1		
2		
3		
4		
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6		
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8		

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
WATERWORKS & WASTE DISPOSAL DIVISION
 SEWAGE DISPOSAL BRANCH

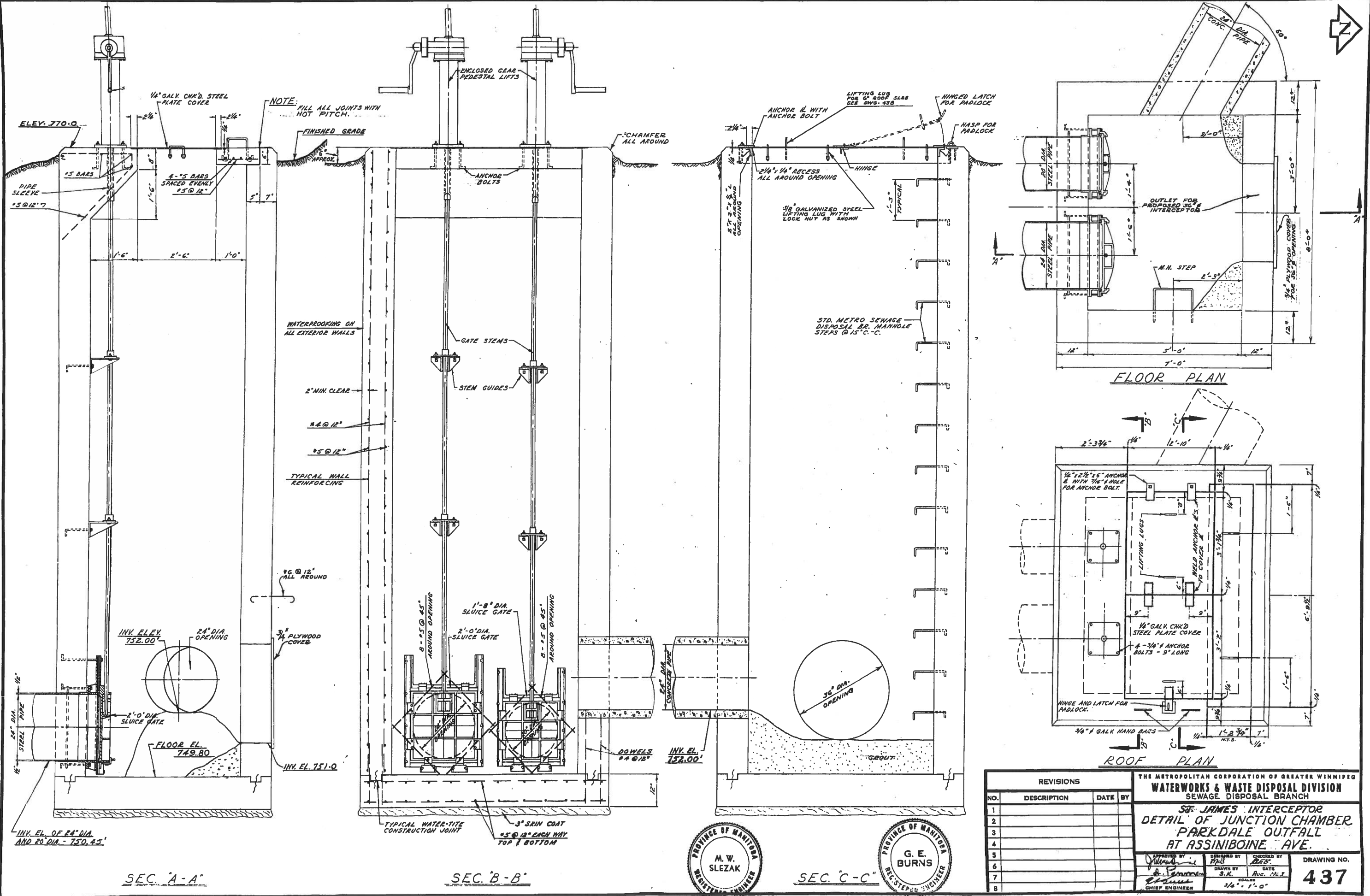
**ST. JAMES INTERCEPTOR
 PARKDALE GATE AND WEIR
 CHAMBER**

APPROVED BY: *[Signature]*
 CHIEF ENGINEER

DESIGNED BY: *[Signature]*
 DRAWN BY: *[Signature]*
 DATE: APR 1963

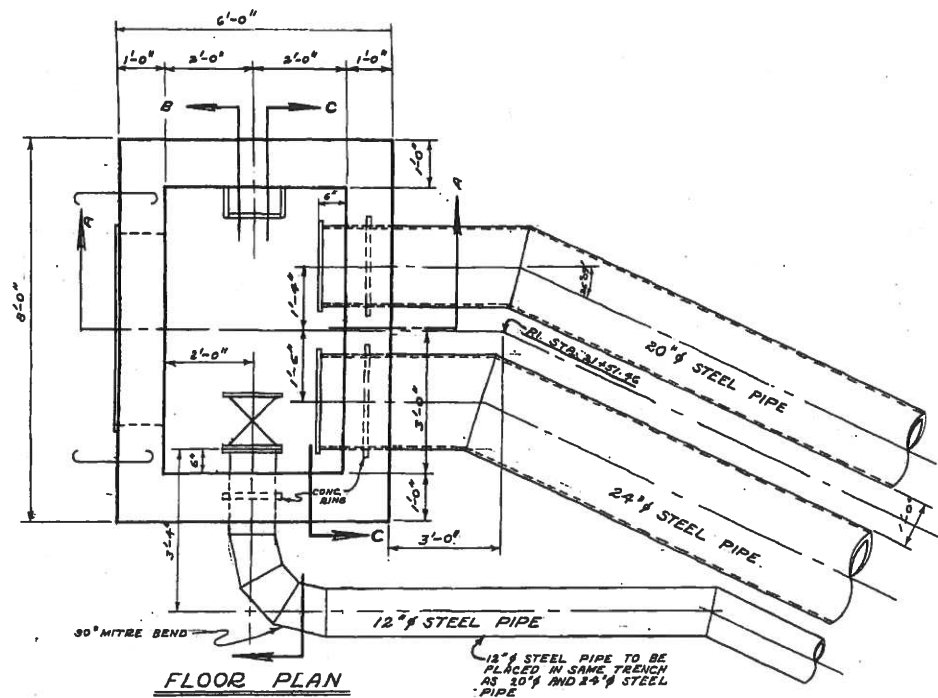
DRAWING NO. **436**

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

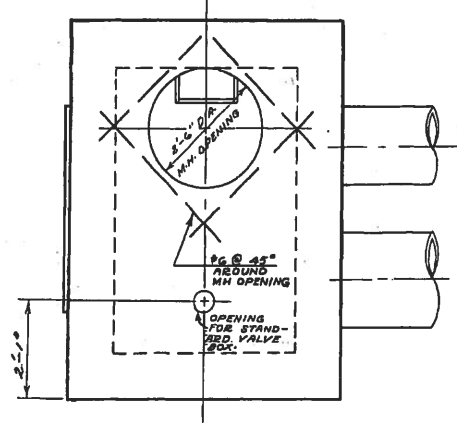


REVISIONS			
NO.	DESCRIPTION	DATE	BY
1			
2			
3			
4			
5			
6			
7			
8			

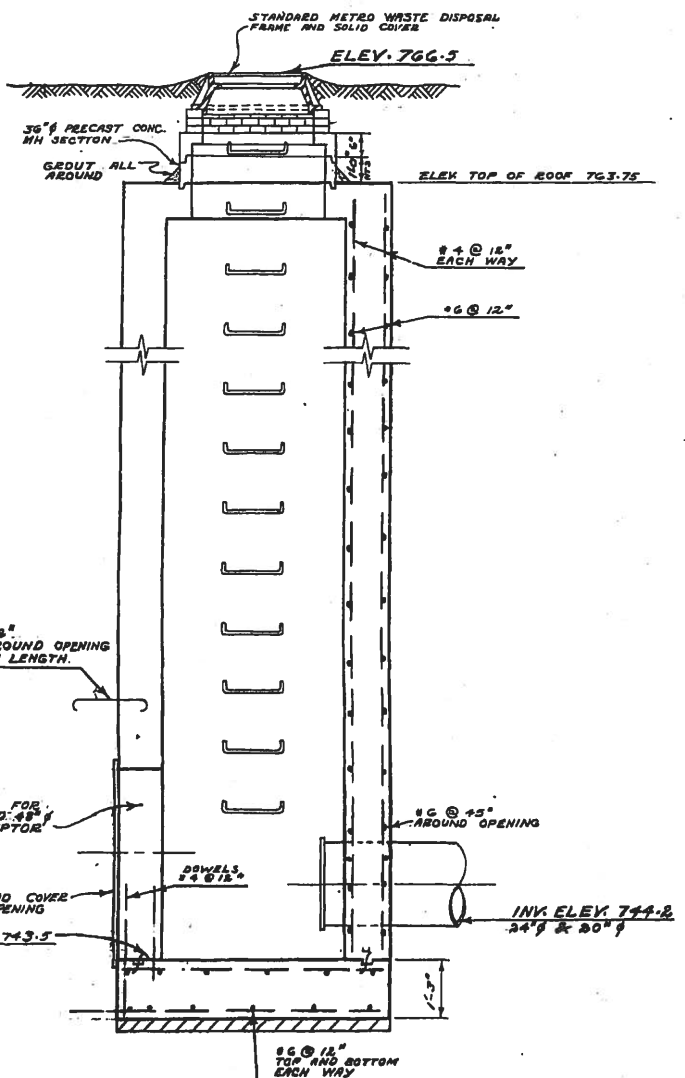
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG WATERWORKS & WASTE DISPOSAL DIVISION SEWAGE DISPOSAL BRANCH			
S.E. JAMES INTERCEPTOR DETAIL OF JUNCTION CHAMBER PARKDALE OUTFALL AT ASSINIBOINE AVE.			
APPROVED BY [Signature] CHIEF ENGINEER	DESIGNED BY [Signature]	CHECKED BY [Signature]	DRAWING NO. 437
DATE [Signature]		DATE Aug. 1961	SCALE 3/4" = 1'-0"



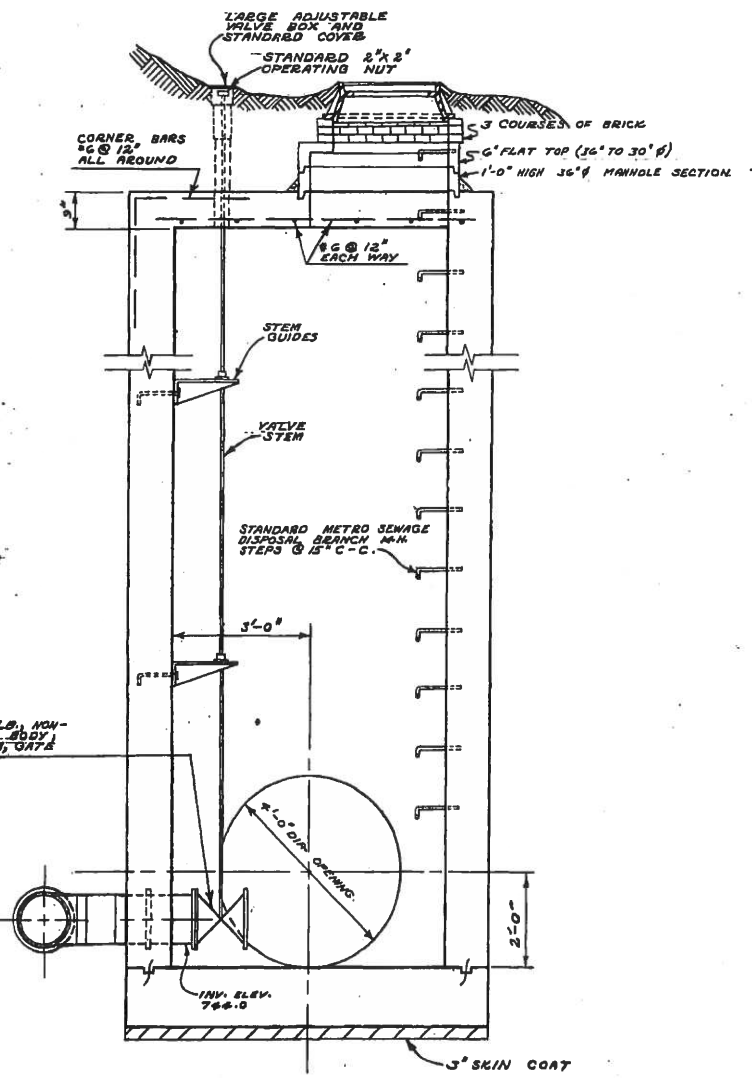
FLOOR PLAN



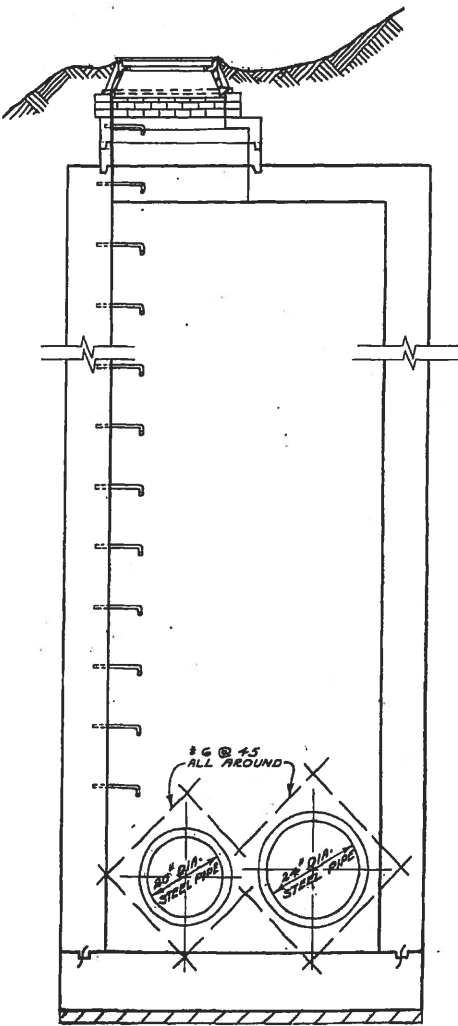
ROOF PLAN



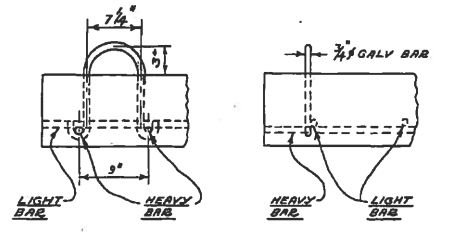
SECTION 'A-A'



SECTION 'B-B'



SECTION 'C-C'



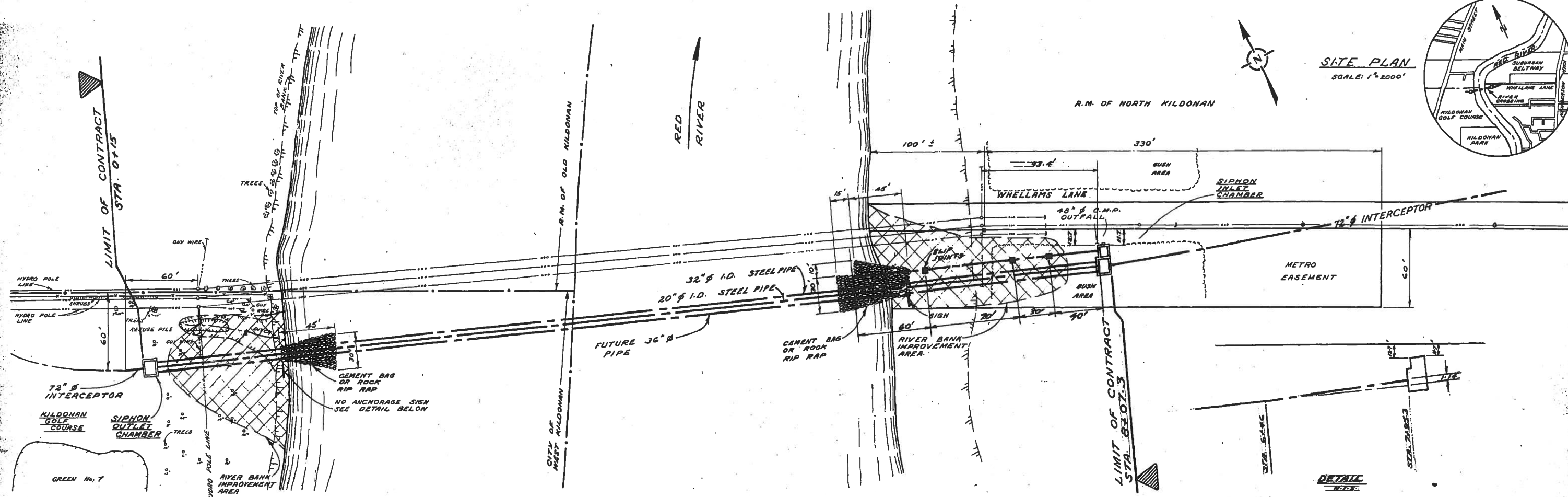
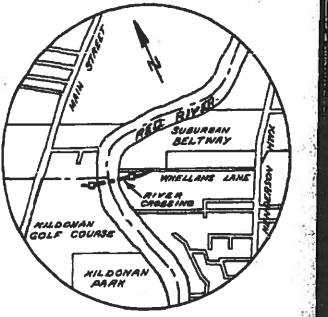
DETAIL OF LIFTING LUG

NOTE:
CONTRACTOR TO SUPPLY 1-20" AND 1-24" BLIND FLANGES FOR STEEL PIPE.

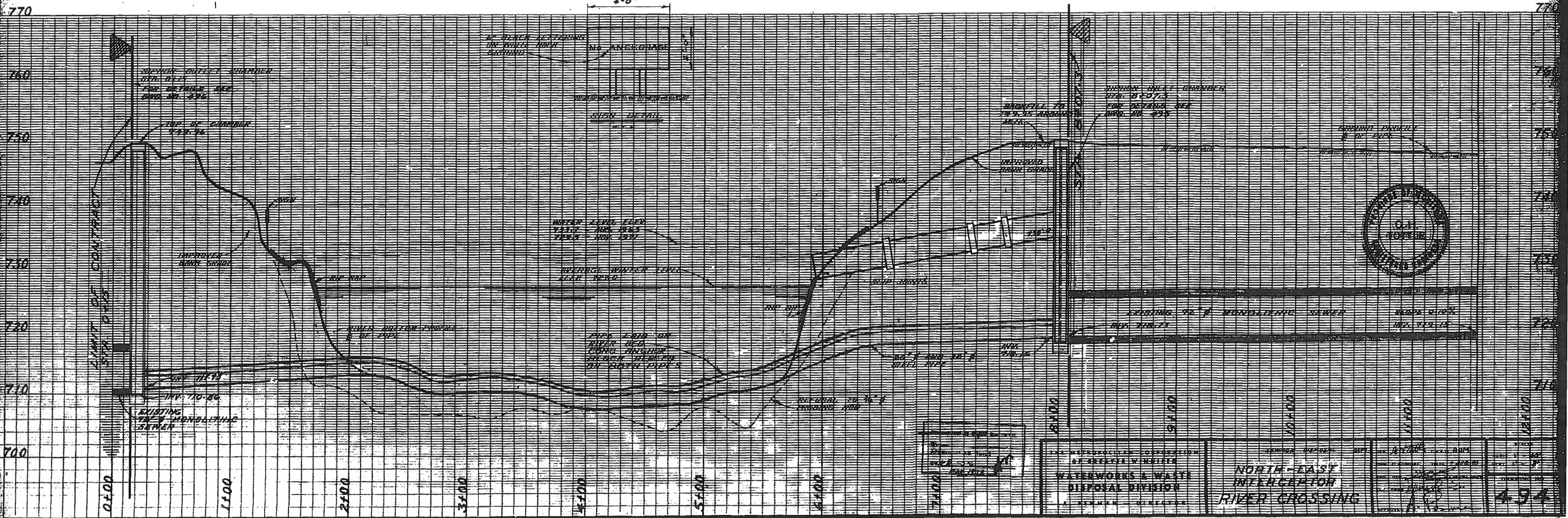


REVISIONS				THE METROPOLITAN CORPORATION OF GREATER WINNIPEG	
NO.	DESCRIPTION	DATE	BY	WATERWORKS & WASTE DISPOSAL DIVISION SEWAGE DISPOSAL BRANCH	
1				ST. JAMES INTERCEPTOR SPECIAL MANHOLE ASSINIBOINE RIVER CROSSING	
2				APPROVED BY: <i>[Signature]</i> CHIEF ENGINEER	
3				DESIGNED BY: <i>[Signature]</i> DATE: JUNE 1963	
4				DRAWN BY: <i>[Signature]</i> DATE: JUNE 1963	
5				CHECKED BY: <i>[Signature]</i> DATE: JUNE 1963	
6				SCALE: 1/4" = 1'-0"	
7				DRAWING NO. 438	
8					

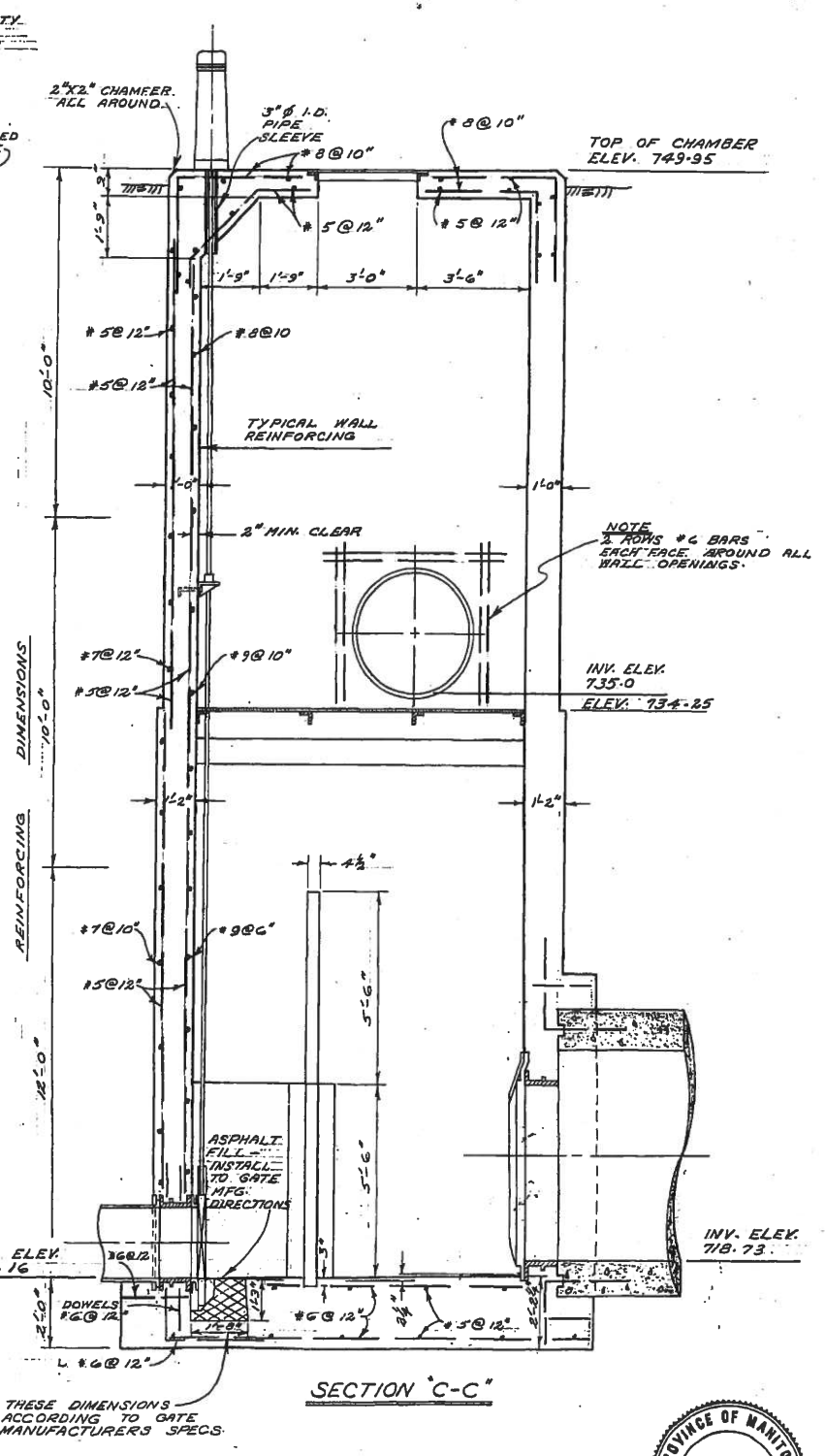
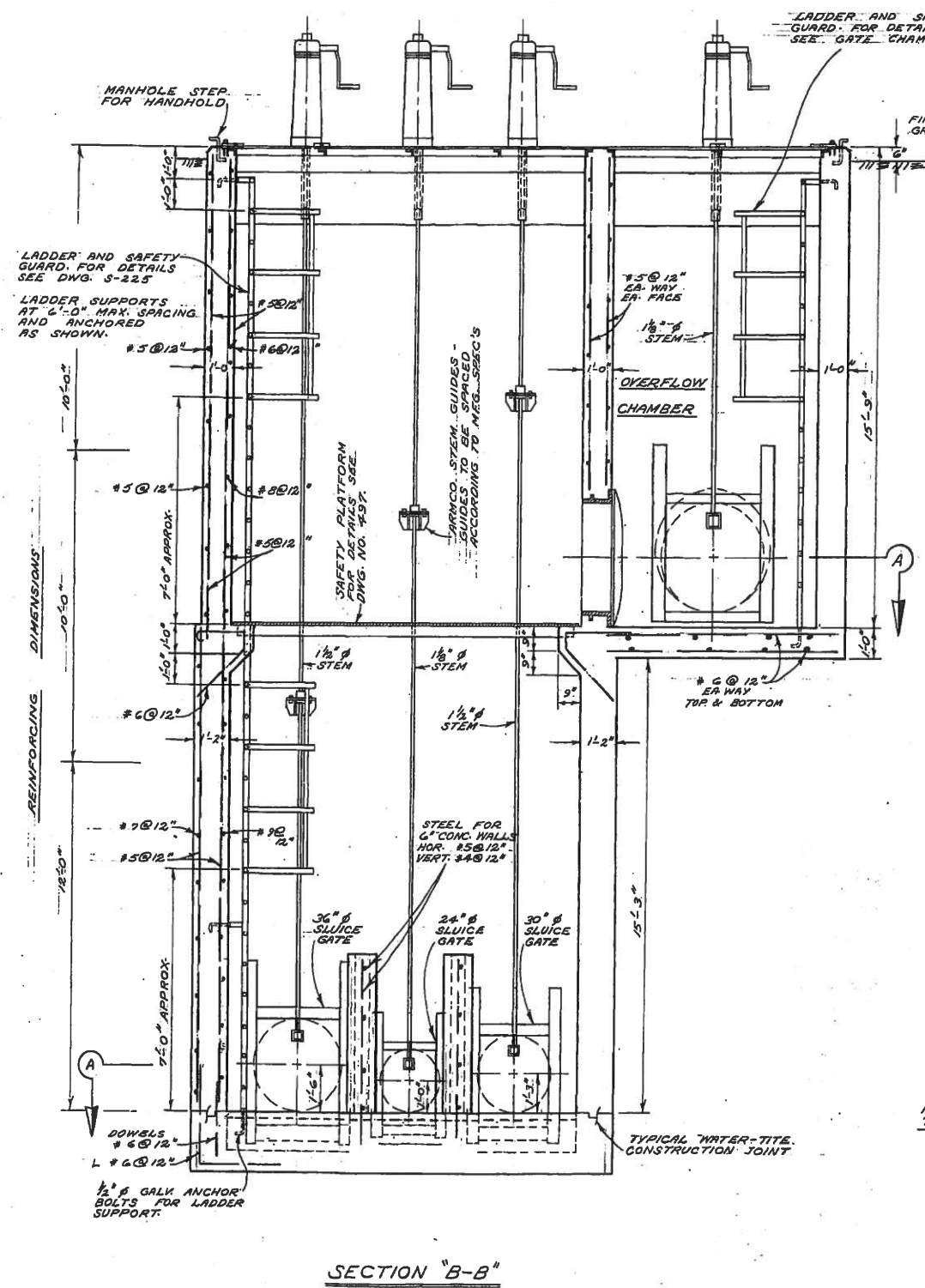
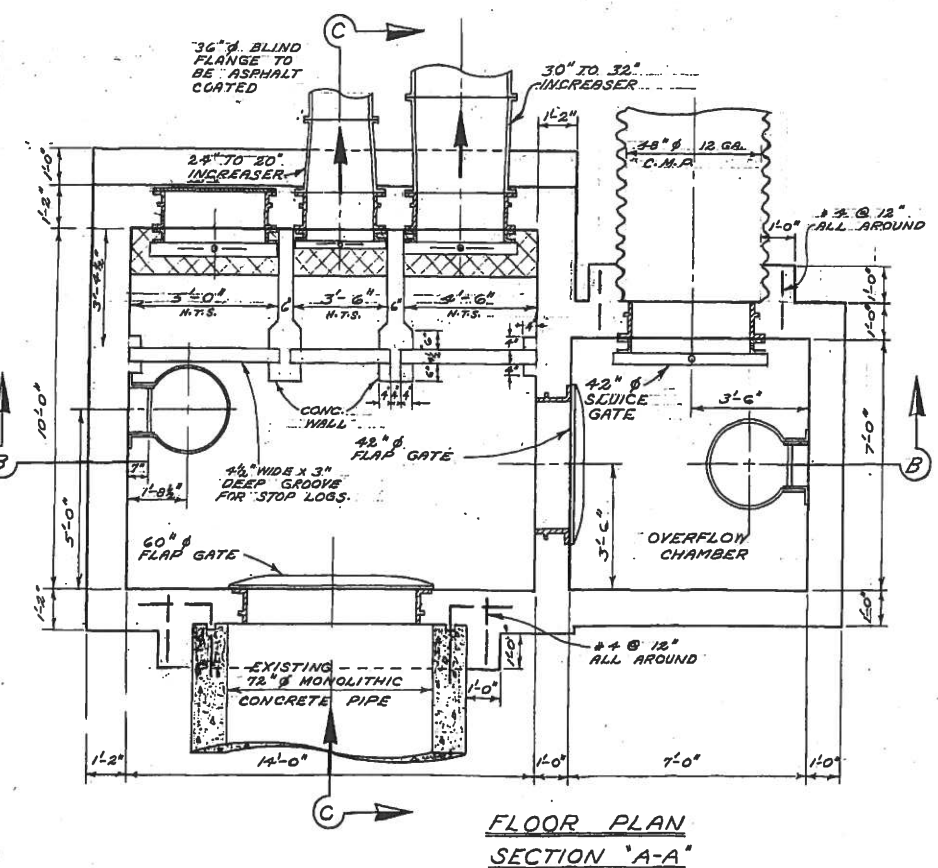
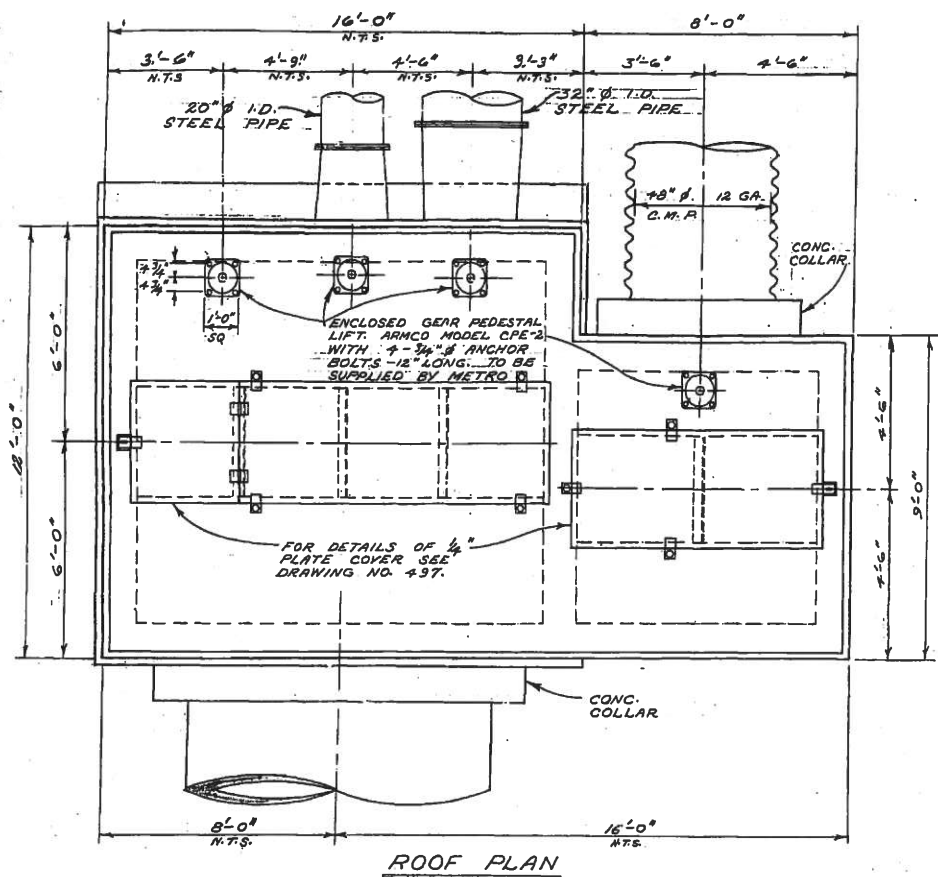
SITE PLAN
SCALE: 1"=8000'



DETAIL
NOTES:



<p>OPERATION OF GREENE W. WELLS WATERWORKS & WASTE DISPOSAL DIVISION</p>	<p>NORTH-EAST INTERCEPTOR RIVER CROSSING</p>	<p>494</p>
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NOTES

1. 24", 30" & 36" SLUICE GATES TO BE ARMCO MODEL 55-10 FLANGE BACK FLUSH BOTTOM HEAVY DUTY.
2. 42" SLUICE GATE TO BE MODEL 55-10 FLANGE BACK, STANDARD CLOSURE, MEDIUM DUTY.
3. 42" & 60" FLAP GATE TO BE ARMCO FLAT BACK HEAVY DUTY.
4. 24", 30" & 36" WALL THIMBLES TO BE SQUARE FLANGED ROUND OPENING ARMCO TYPE 'E'.
5. 42" & 60" WALL THIMBLE TO BE SQUARE FLANGED ROUND OPENING ARMCO TYPE 'F'.

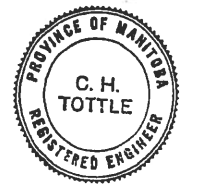
SURVEYED & PLAN CHECKED
 BY: APPROVED AS BUILT
 DATE: MAR 1928

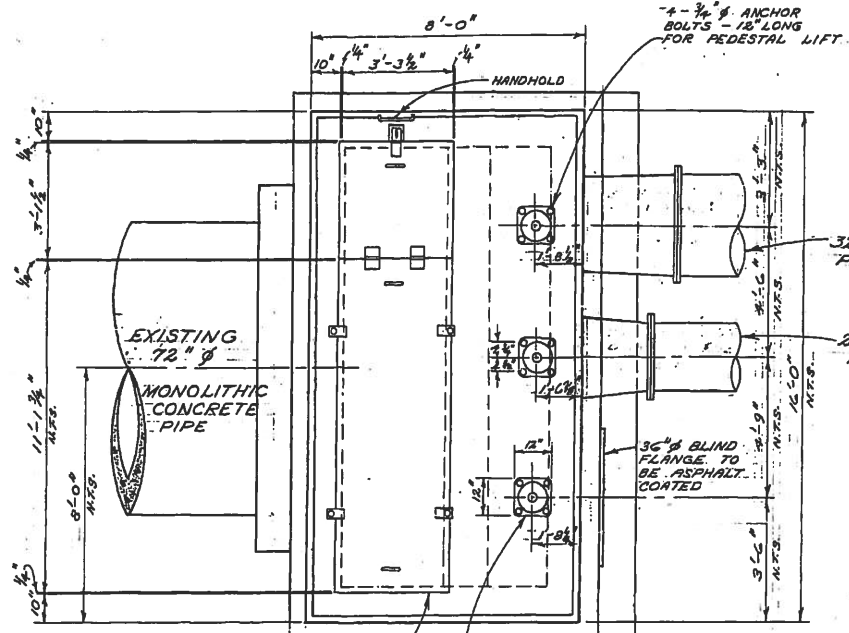
THE METROPOLITAN CORPORATION
 OF GREATER WINNIPEG
**WATERWORKS & WASTE
 DISPOSAL DIVISION**
 A. PENMAN - DIRECTOR

SEWAGE DISPOSAL DEPT.
 NORTH-EAST INTERCEPTOR
 RIVER CROSSING
 SIPHON INLET CHAMBER

DESIGNED BY: CH'ED BY: [Signature]
 ENGR. V. DUMORE DATE: MAR 3/28
 ENGR. [Signature]
 APPROVED: [Signature]

SCALE: 3/8" = 1'-0"
 DRAWING NO. 495

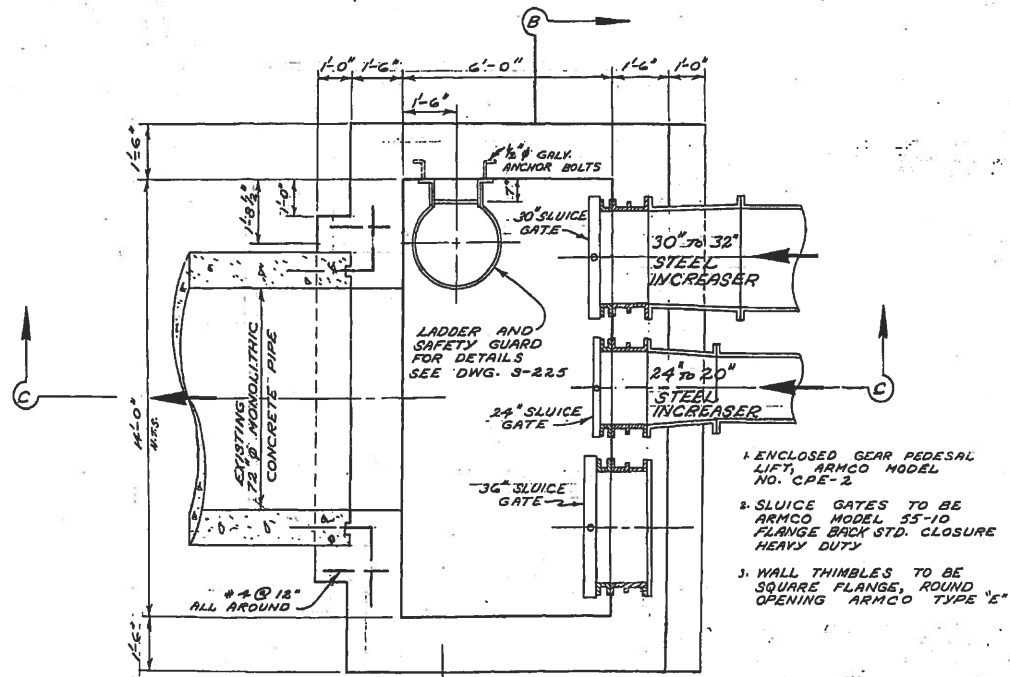




FOR DETAILS OF 1/4" PLATE COVER SEE DRAWING NO. 497

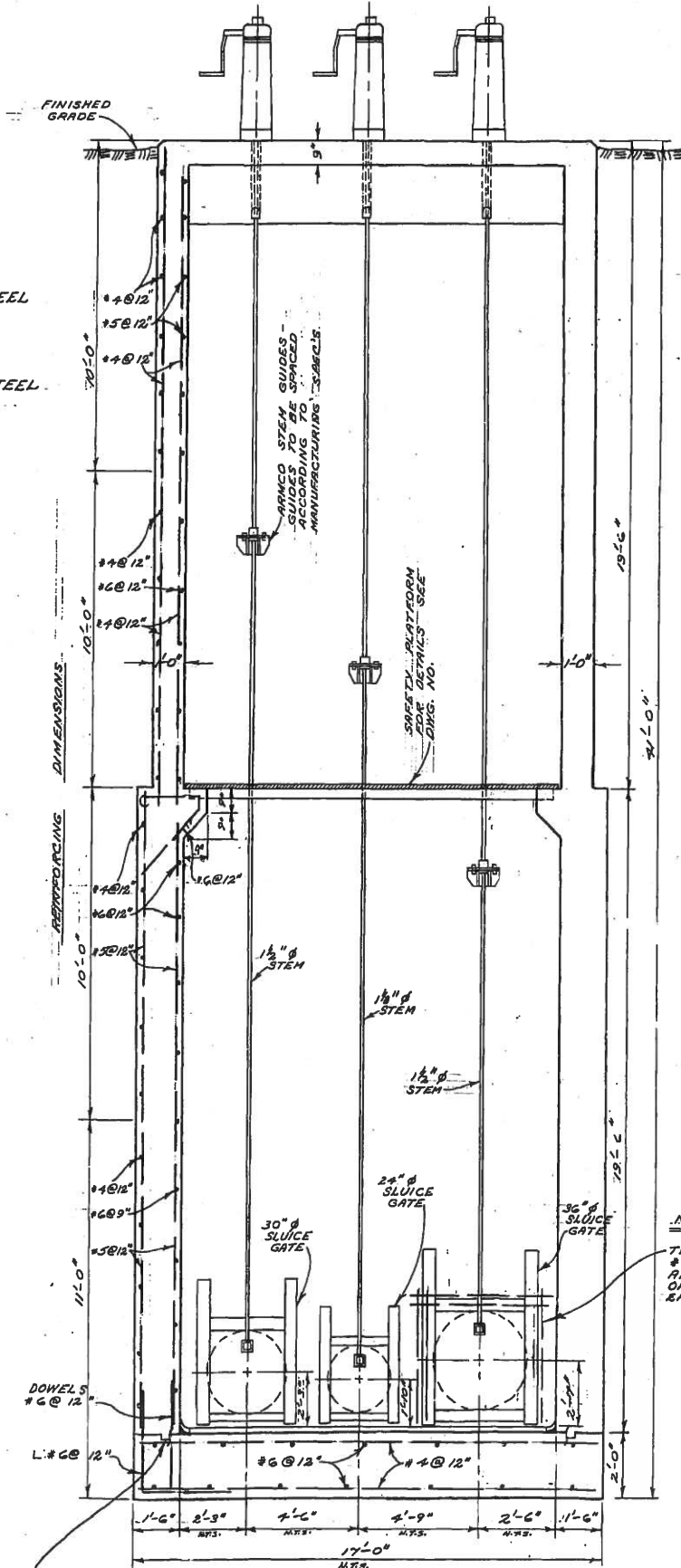
ENCLOSED GEAR PEDESTAL LIFT, ARMCO MODEL CPE-2

ROOF PLAN

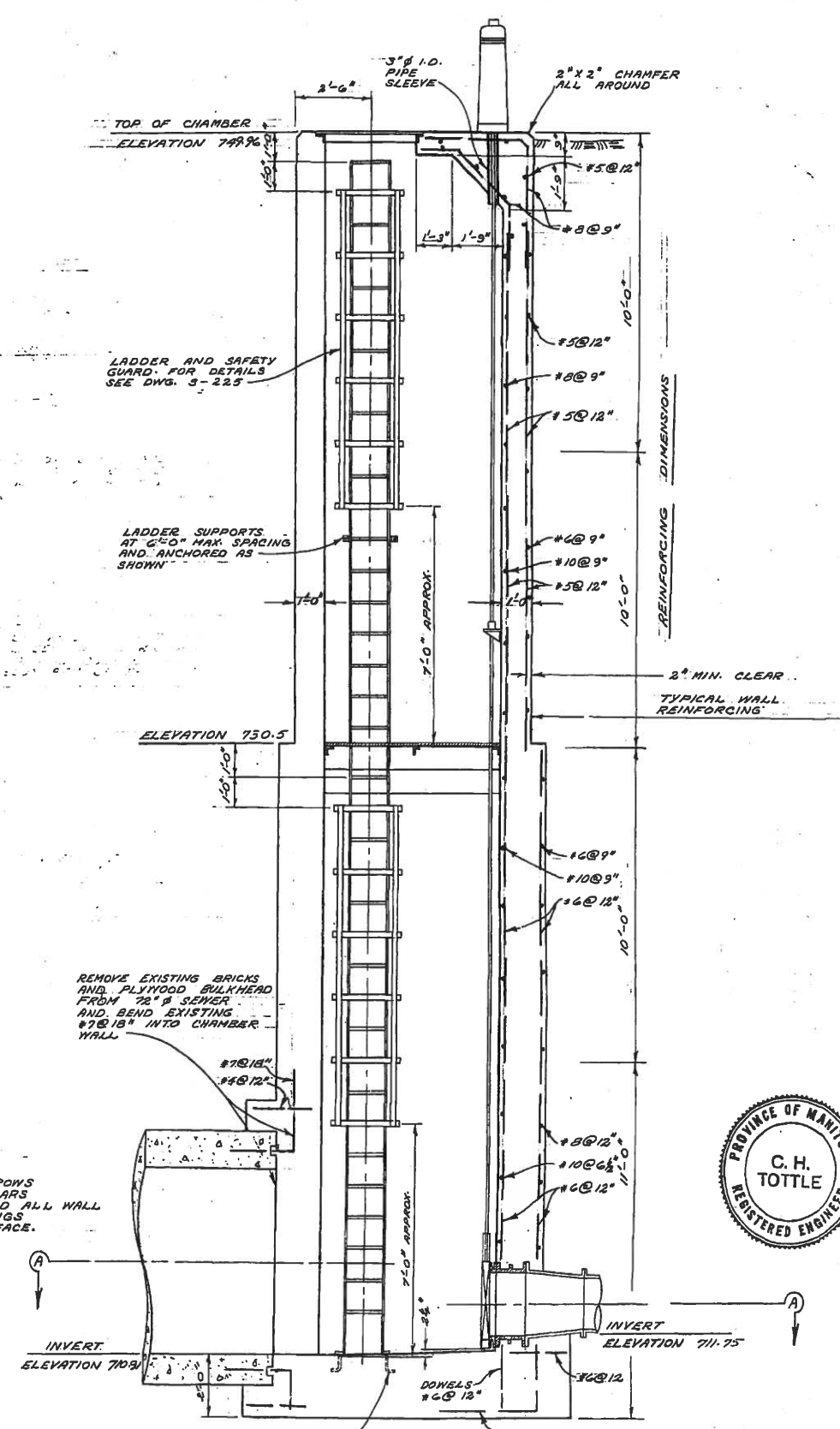


SECTION "A-A"

- ENCLOSED GEAR PEDESTAL LIFT, ARMCO MODEL NO. CPE-2
- SLUCE GATES TO BE ARMCO MODEL 55-10 FLANGE BACK STD. CLOSURE HEAVY DUTY
- WALL THIMBLES TO BE SQUARE FLANGE, ROUND OPENING ARMCO TYPE "E"



SECTION "B-B"



SECTION "C-C"

REMOVE EXISTING BRICKS AND PLYWOOD BULKHEAD FROM 72" Ø SEWER AND BEND EXISTING 18" Ø INTO CHAMBER WALL

NOTE
TWO ROWS #6 BARS AROUND ALL WALL OPENINGS EACH FACE.



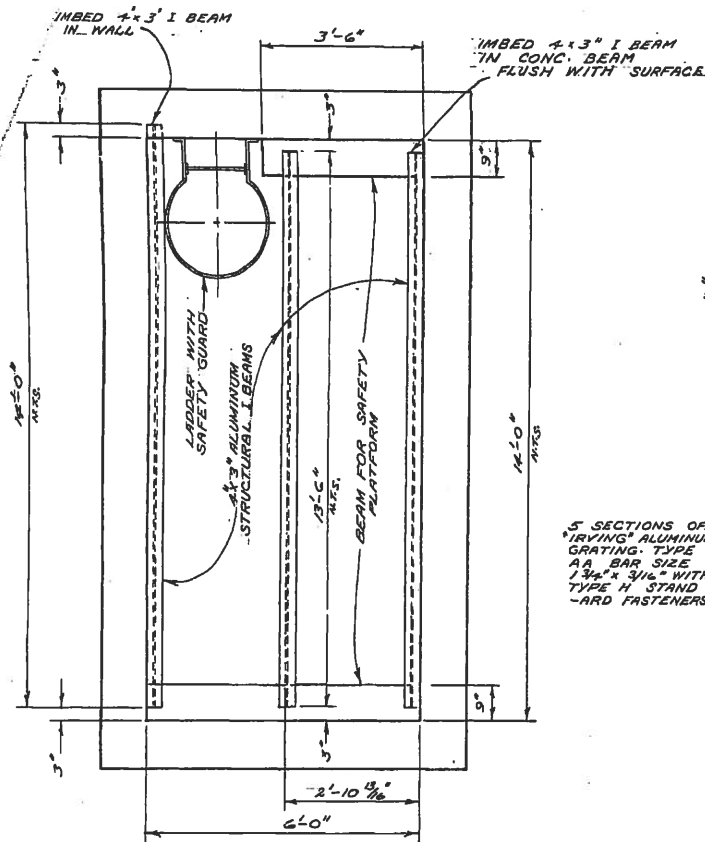
SURVEYED & PLAN CHECKED BY [Signature]
APPROVED AS BUILT BY [Signature] MAR. 072

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

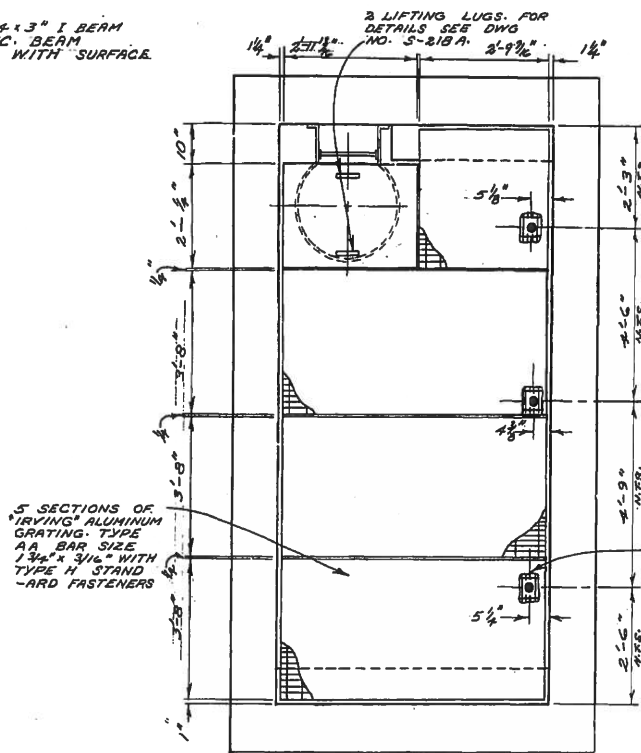
SEWER DISPOSAL DEPT.
NORTH-EAST INTERCEPTOR RIVER CROSSING
SIPHON OUTLET CHAMBER

DES. [Signature] CH'KD. [Signature]
DRN. [Signature] DATE JULY 1970
ENG. [Signature]
ENR. [Signature]

SCALE: 3/8" = 1'-0"
DRAWING NO. 496

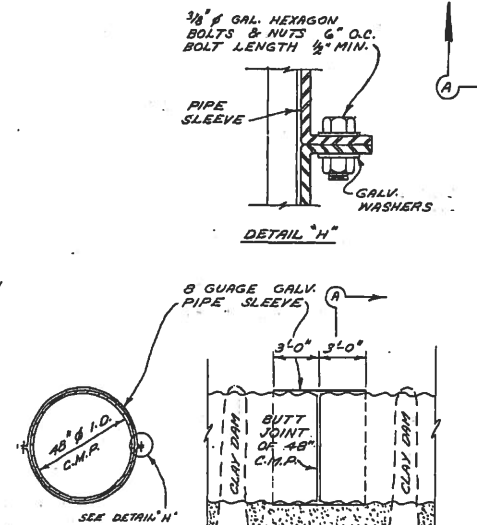


CONCRETE BEAMS AND ANGLE IRON DETAILS



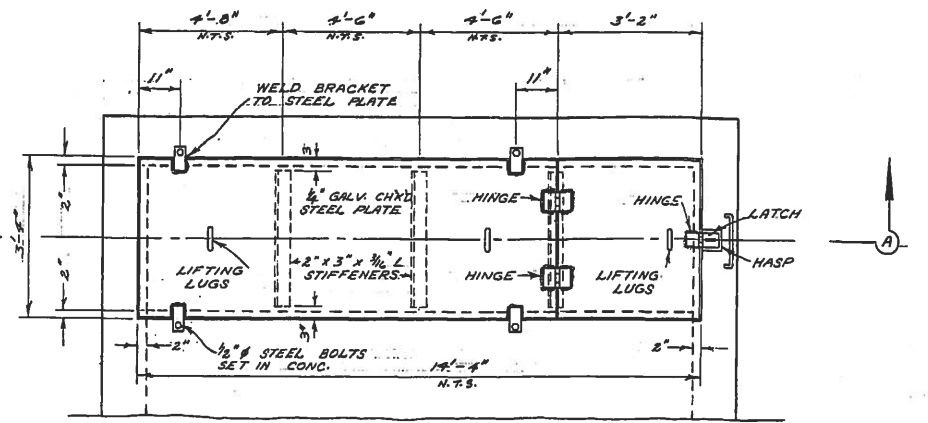
GRATING DETAIL

DETAIL OF SAFETY PLATFORM SIPHON OUTLET CHAMBER

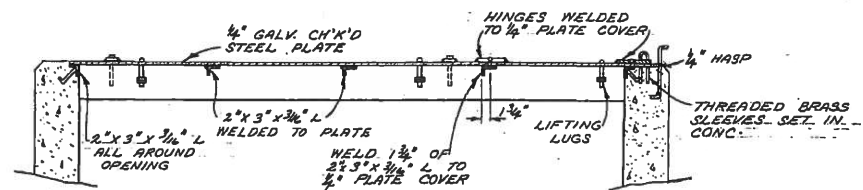


SECTION 'A-A' LONGITUDINAL SECTION

SLIP JOINT DETAIL

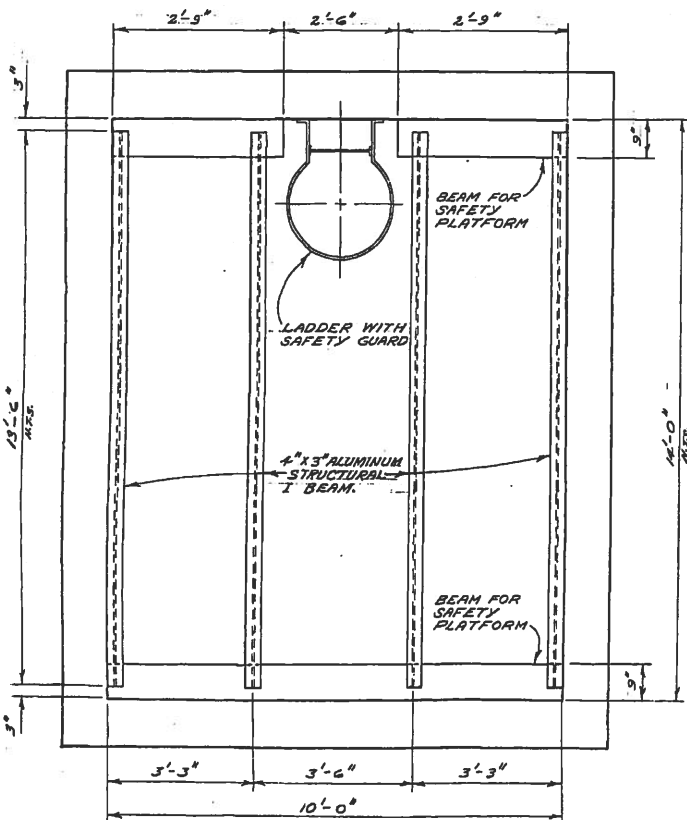


PLAN

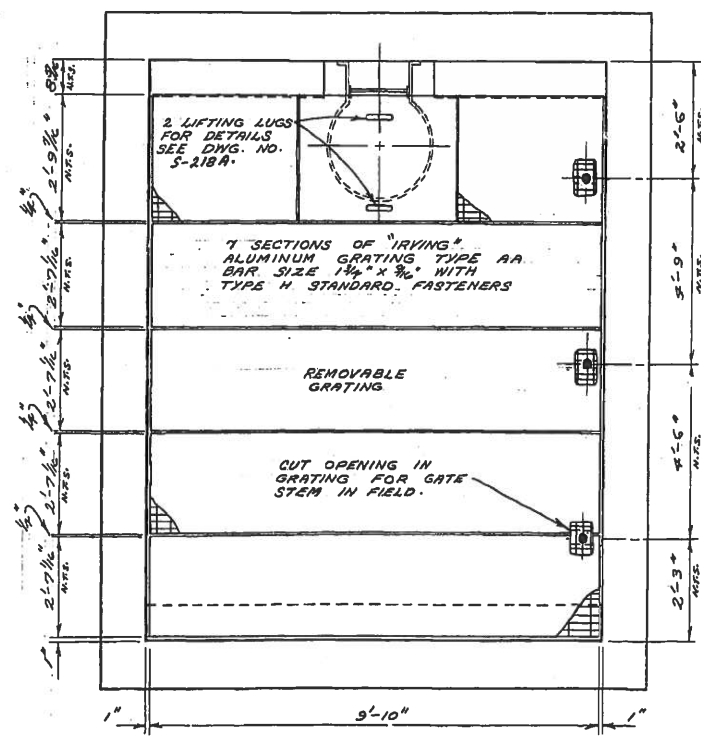


SECTION 'A-A'

PLATE COVER FOR INLET AND OUTLET CHAMBERS

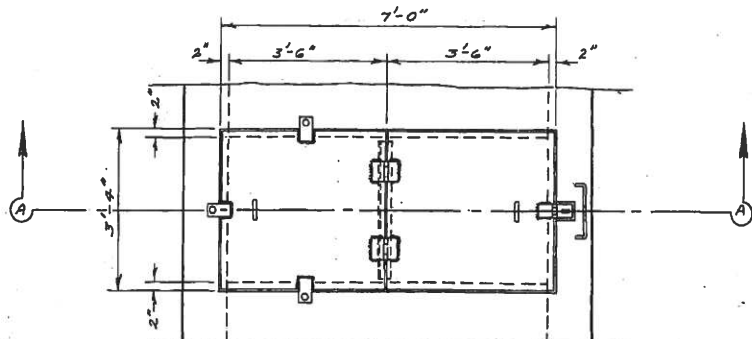


CONCRETE BEAM AND ANGLE IRON DETAIL



GRATING DETAIL

DETAIL OF SAFETY PLATFORM SIPHON INLET CHAMBER



PLAN



SECTION 'A-A'

PLATE COVER FOR OVERFLOW CHAMBER



SURVEYED BY PLAN CHECKED BY APPROVED AS BUILT BY: H.P. D.S. 11/10/72

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

SEWER DISPOSAL DEPT. NORTH-EAST INTERCEPTOR RIVER CROSSING MISC. DETAILS

DES. DATE: 2/10/70 ENG. DES. APPROVED: [Signature]

SCALE: 1/2\"/>

R. M. OF WEST KILDONAN

WEST E. OF KILDONAN DRIVE

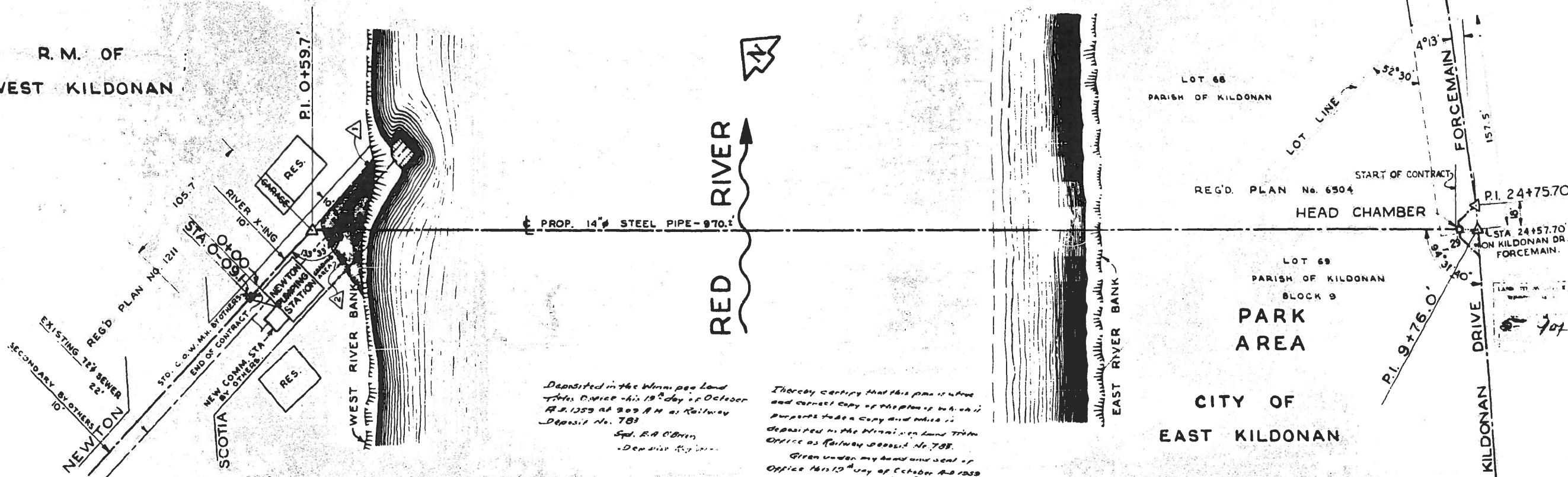
LOT 68 PARISH OF KILDONAN

REG'D. PLAN No. 6504

LOT 69 PARISH OF KILDONAN BLOCK 9

PARK AREA

CITY OF EAST KILDONAN



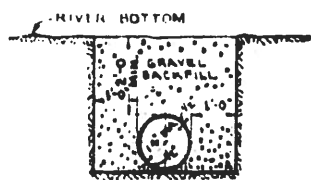
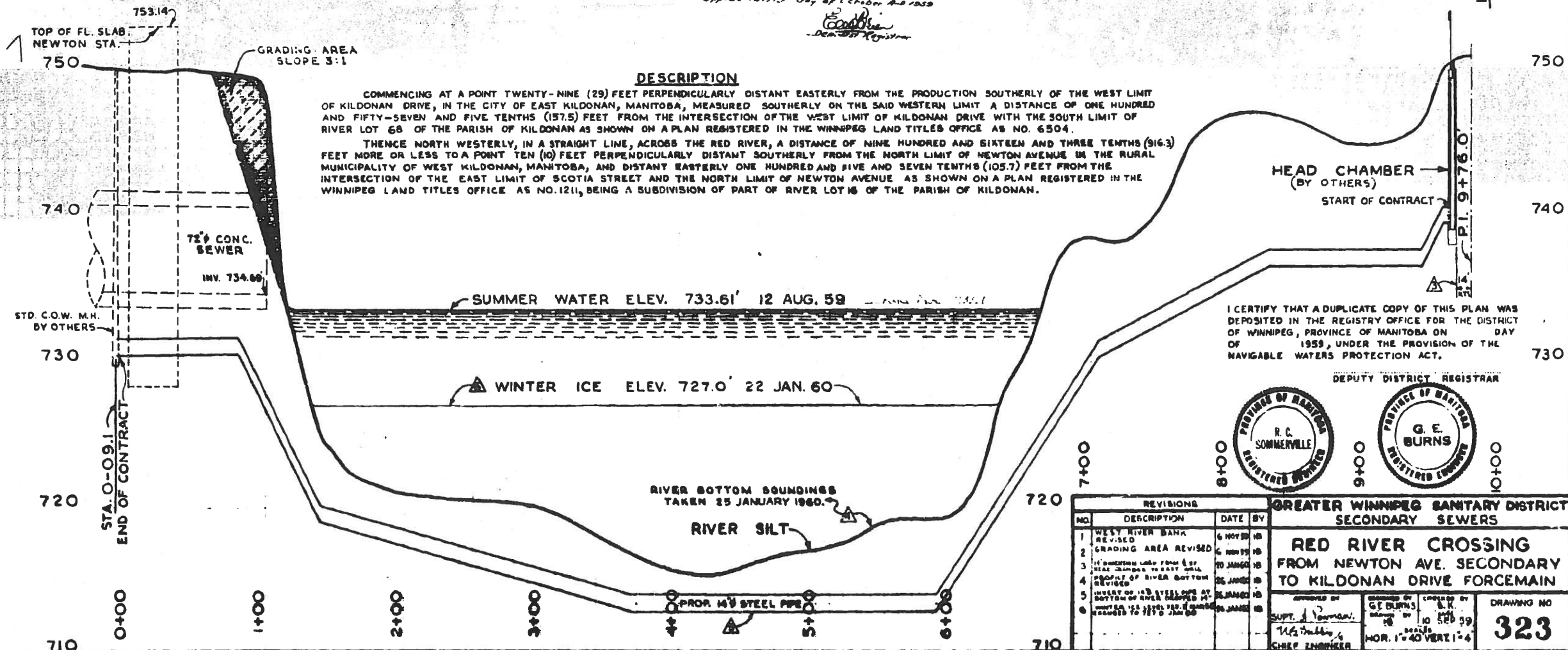
Deposited in the Winnipeg Land Titles Office this 13th day of October A.D. 1959 at 9:09 A.M. as Railway Deposit No. 783
 Supt. E.A. O'Brien
 Deputy Registrar

I hereby certify that this plan is a true and correct copy of the plan of which a duplicate is deposited in the Winnipeg Land Titles Office as Railway Deposit No. 783.
 Given under my hand and seal of Office this 13th day of October A.D. 1959
 R.C. SOMMERVILLE
 Deputy Registrar

DESCRIPTION

COMMENCING AT A POINT TWENTY-NINE (29) FEET PERPENDICULARLY DISTANT EASTERLY FROM THE PRODUCTION SOUTHERLY OF THE WEST LIMIT OF KILDONAN DRIVE, IN THE CITY OF EAST KILDONAN, MANITOBA, MEASURED SOUTHERLY ON THE SAID WESTERN LIMIT A DISTANCE OF ONE HUNDRED AND FIFTY-SEVEN AND FIVE TENTHS (157.5) FEET FROM THE INTERSECTION OF THE WEST LIMIT OF KILDONAN DRIVE WITH THE SOUTH LIMIT OF RIVER LOT 68 OF THE PARISH OF KILDONAN AS SHOWN ON A PLAN REGISTERED IN THE WINNIPEG LAND TITLES OFFICE AS NO. 6504.

THENCE NORTH WESTERLY, IN A STRAIGHT LINE, ACROSS THE RED RIVER, A DISTANCE OF NINE HUNDRED AND SIXTEEN AND THREE TENTHS (916.3) FEET MORE OR LESS TO A POINT TEN (10) FEET PERPENDICULARLY DISTANT SOUTHERLY FROM THE NORTH LIMIT OF NEWTON AVENUE IN THE MUNICIPALITY OF WEST KILDONAN, MANITOBA, AND DISTANT EASTERLY ONE HUNDRED AND FIVE AND SEVEN TENTHS (105.7) FEET FROM THE INTERSECTION OF THE EAST LIMIT OF SCOTIA STREET AND THE NORTH LIMIT OF NEWTON AVENUE AS SHOWN ON A PLAN REGISTERED IN THE WINNIPEG LAND TITLES OFFICE AS NO. 1211, BEING A SUBDIVISION OF PART OF RIVER LOT 68 OF THE PARISH OF KILDONAN.



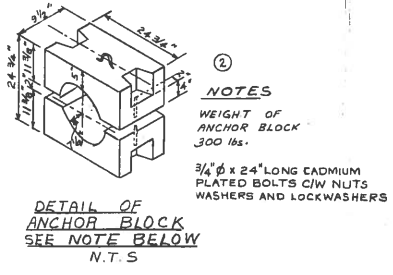
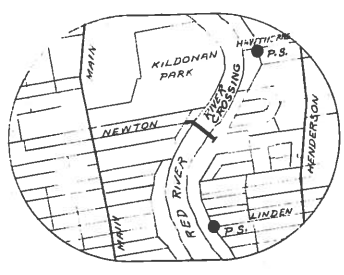
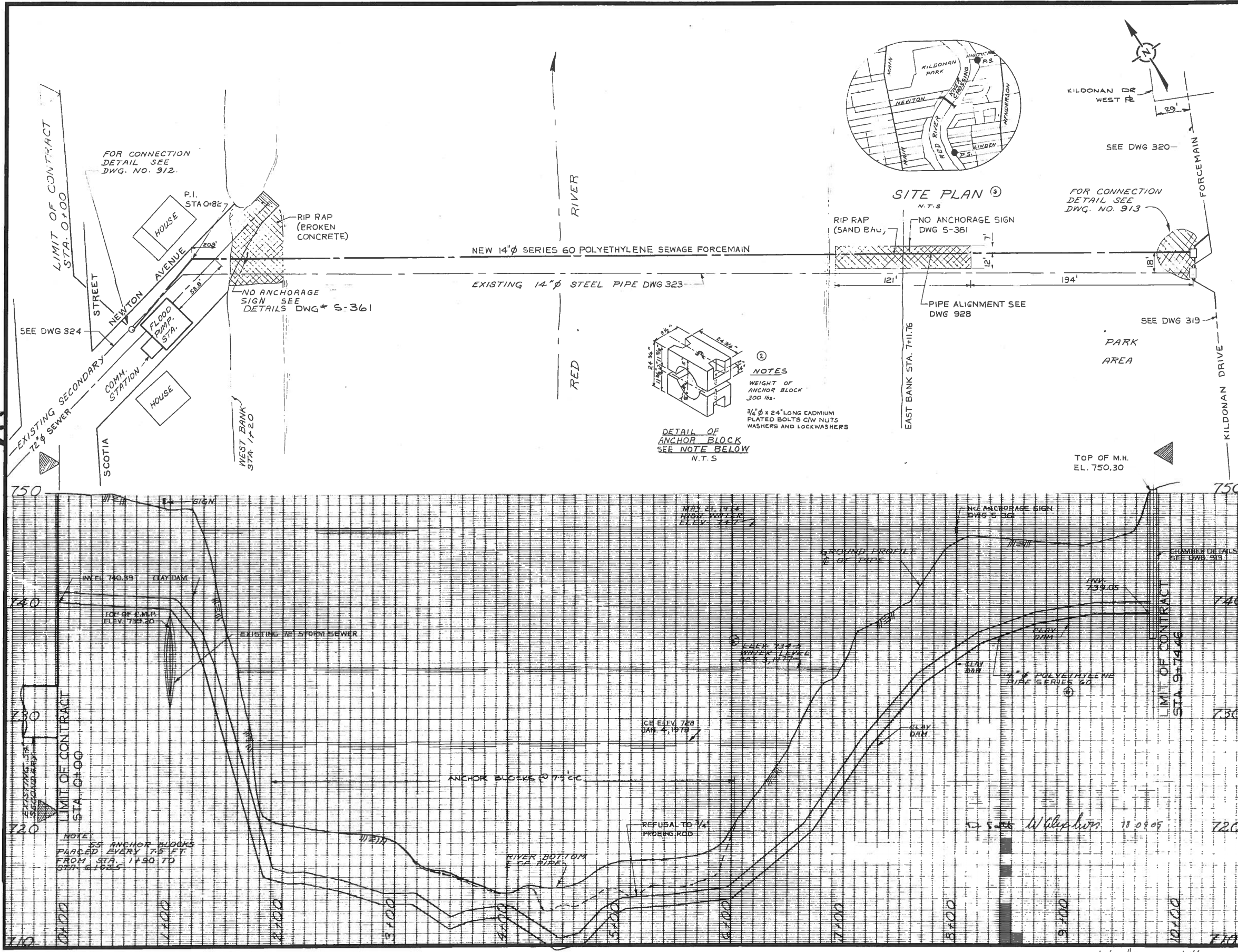
CROSS-SECTION OF 14\"/>

I CERTIFY THAT A DUPLICATE COPY OF THIS PLAN WAS DEPOSITED IN THE REGISTRY OFFICE FOR THE DISTRICT OF WINNIPEG, PROVINCE OF MANITOBA ON DAY OF 1959, UNDER THE PROVISION OF THE NAVIGABLE WATERS PROTECTION ACT.



REVISIONS			GREATER WINNIPEG SANITARY DISTRICT SECONDARY SEWERS	
NO.	DESCRIPTION	DATE BY	APPROVED BY	DRAWING NO.
1	WEST RIVER BANK REVISED	6 NOV 58	Supt. J. Norman Chief Engineer	323
2	GRADING AREA REVISED	6 NOV 58		
3	IF DIMENSIONS LESS THAN 6 FT. MEAS. DIMENSIONS TO EAST WALL PROPERTY OF RIVER BOTTOM REVISED	20 JAN 59		
4	INVESTIGATION OF RIVER BOTTOM	26 JAN 59		
5	INVESTIGATION OF RIVER BOTTOM	26 JAN 59		
6	INVESTIGATION OF RIVER BOTTOM	26 JAN 59		

911



LEGEND

WATERWORKS, WASTE AND DISPOSAL UNDERGROUND UTILITIES

PROPOSED FORCEMAIN, INTERCEPTOR OR SECONDARY SEWER ————

EXISTING FORCEMAIN, INTERCEPTOR OR SECONDARY SEWER ———— W.W.D. 14" SEWER

PROPOSED FEEDERMAIN ————

EXISTING FEEDERMAIN ———— W.W.D. 24" W.M.

W.W.D. — WATERWORKS, WASTE AND DISPOSAL

OTHER UNDERGROUND UTILITIES

COMMUNITY SEWER ————

COMMUNITY WATERMAIN ————

GAS ————

HYDRO DUCT ————

M.T.S. DUCT OR CABLE ————

STREET LIGHTING, RAILWAY SIGNAL OR TRAFFIC SIGNAL CABLE ————

SURFACE UTILITIES

COMMUNITY BOUNDARY LINE ————

FENCE LINE ————

POLE LINE ————

RAILWAY LINE ————

MISCELLANEOUS SYMBOLS

CATCH BASIN ———— O

CULVERT ———— [Symbol]

HYDRANT ———— [Symbol]

MANHOLE ———— [Symbol]

HYDRO OR M.T.S. POLE ———— [Symbol]

LAMP STANDARD ———— [Symbol]

RAILWAY OR TRAFFIC SIGNAL STANDARD ———— [Symbol]

SURVEY BAR ———— [Symbol]

TREE ———— [Symbol]

VALVE ———— [Symbol]

NOTES

1. [Blank]

REVISIONS

NO.	DESCRIPTION	DATE	BY
7	REVISED TO AS BUILT	AUG 18/78	VD
6	SERIES 80 CHANGED TO 60	OCT 1/77	VD.
5	SUMMER WATER LEVEL ADDED	OCT 1/77	VD.
4	NOTE - PIPE ALIGNMENT	OCT 1/77	VD
3	SITE PLAN REVISED	OCT 1/77	VD
2	ANCHOR BLOCK DIM. CHANGED, NOTE ADDED	OCT 1/77	VD
1	RIVER CROSSING X-SECTION REMOVED	OCT 1/77	VD

REVISIONS

FIELD BOOK(S) NO. F 472	SURVEYED BY R. TAPLIN
LAND SURVEY PLAN(S) NO.	DATE Nov. 1, 1976
B.M. GEO. 2-12-005	

The City of Winnipeg
Waterworks, Waste and Disposal Division

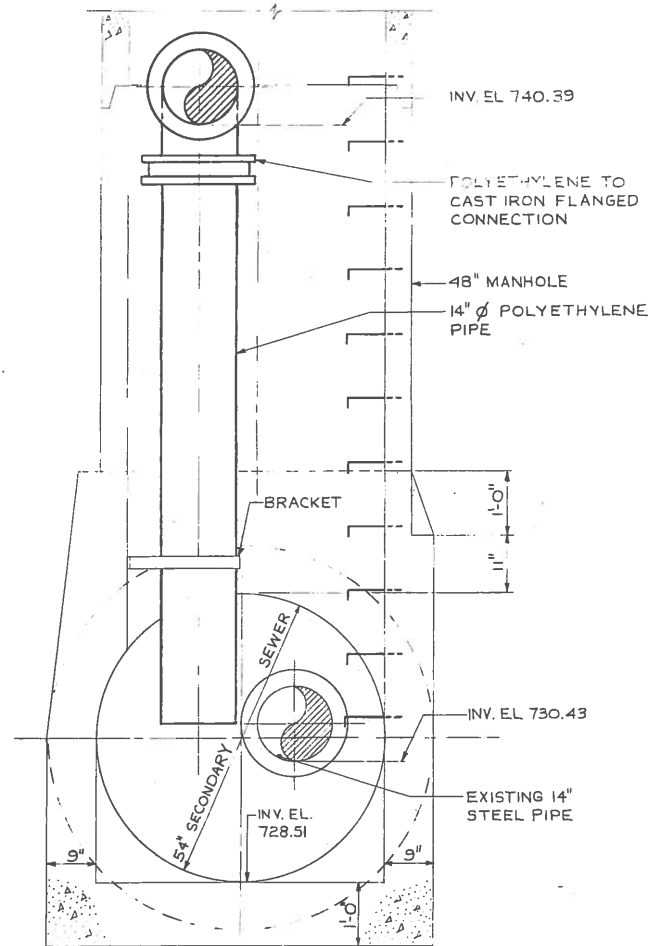
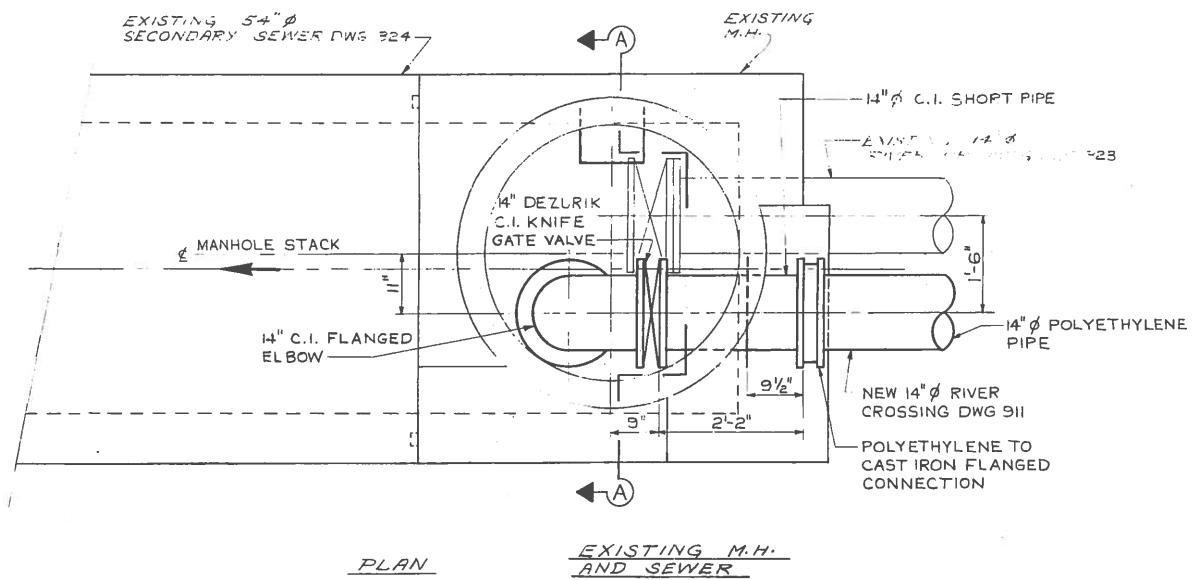
ENGINEERING BRANCH
WASTE DISPOSAL

NEWTON RIVER X-ING
PLAN PROFILE

DESIGNED BY B. BRICK	DRAWN BY V. DUMORE
CHECKED BY [Signature]	DATE JUNE 1977
APPROVED BY [Signature]	
SCALE HOR. 1" = 40'	DRAWING NO. 911
VERT. 1" = 4'	

file # M/S 10641

MICROFILMED, MAY 11 1995



D. Sect W. Chydlowski 78 of 11

NO.	DESCRIPTION	DATE	BY
4	REVISED TO AS BUILT	AUG 24/78	BB
3	1/8" RUBBER GASKET	OCT 6/77	BB
2	FILLER PLATE DIMENSION CHANGE	OCT 4/77	BB
1	SERIES 80 CHANGED TO 60	OCT 4/77	BB

REVISIONS

The City of Winnipeg
Waterworks, Waste and Disposal Division

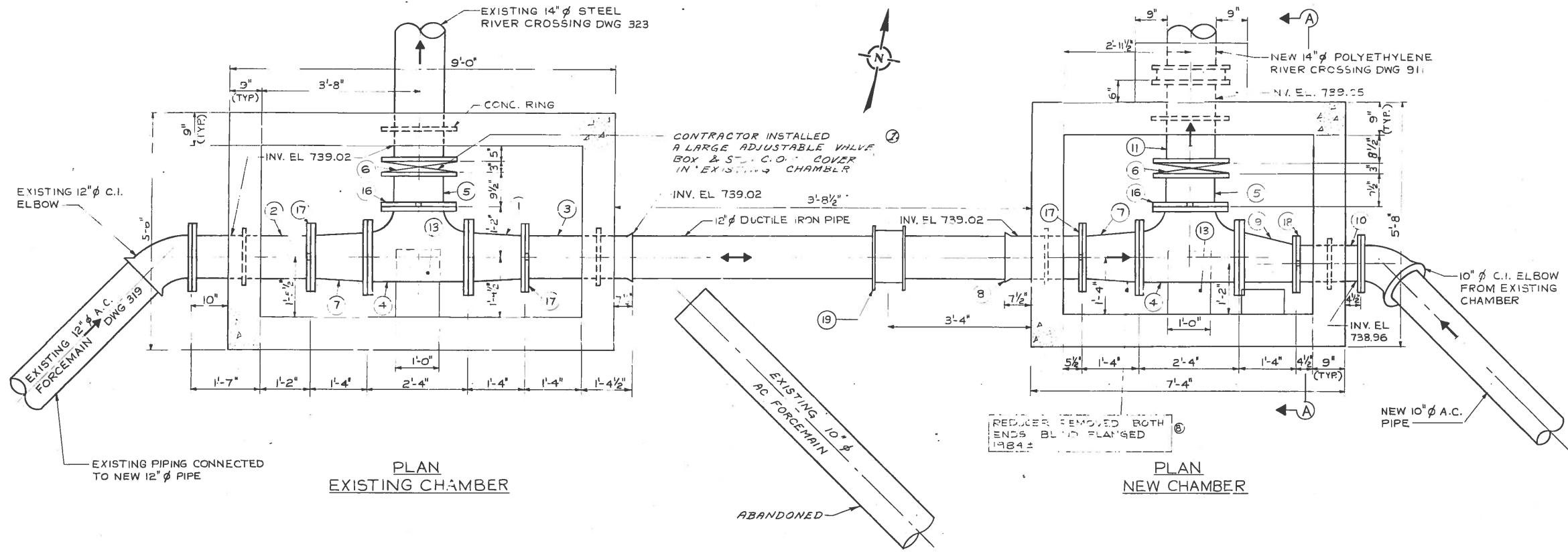
ENGINEERING BRANCH
WASTE DISPOSAL

NEWTON RIVER X-ING
NEWTON AVE. & SCOTIA ST.
CONNECTION DETAILS
TO 54" ϕ SECONDARY

DESIGNED BY B BRICK	DRAWN BY V.D.
CHECKED BY <i>[Signature]</i>	DATE JUNE 1977
APPROVED BY <i>[Signature]</i>	
SCALE 3/4" = 1'-0"	DRAWING NO. 912

file # MS10642

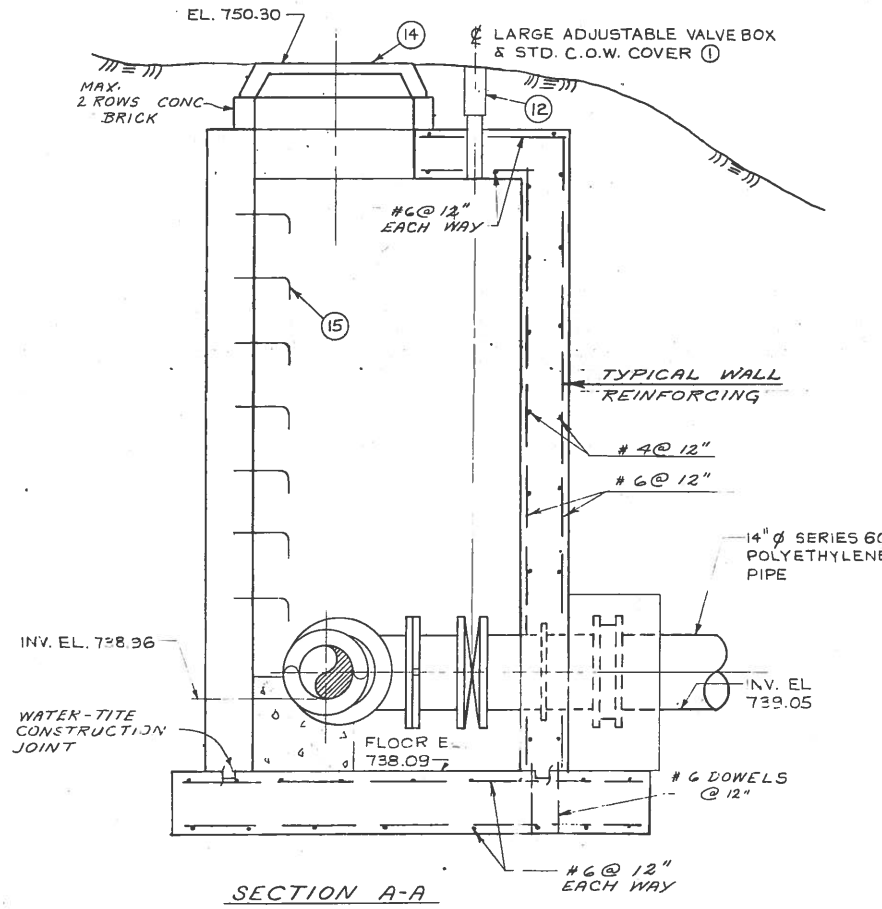
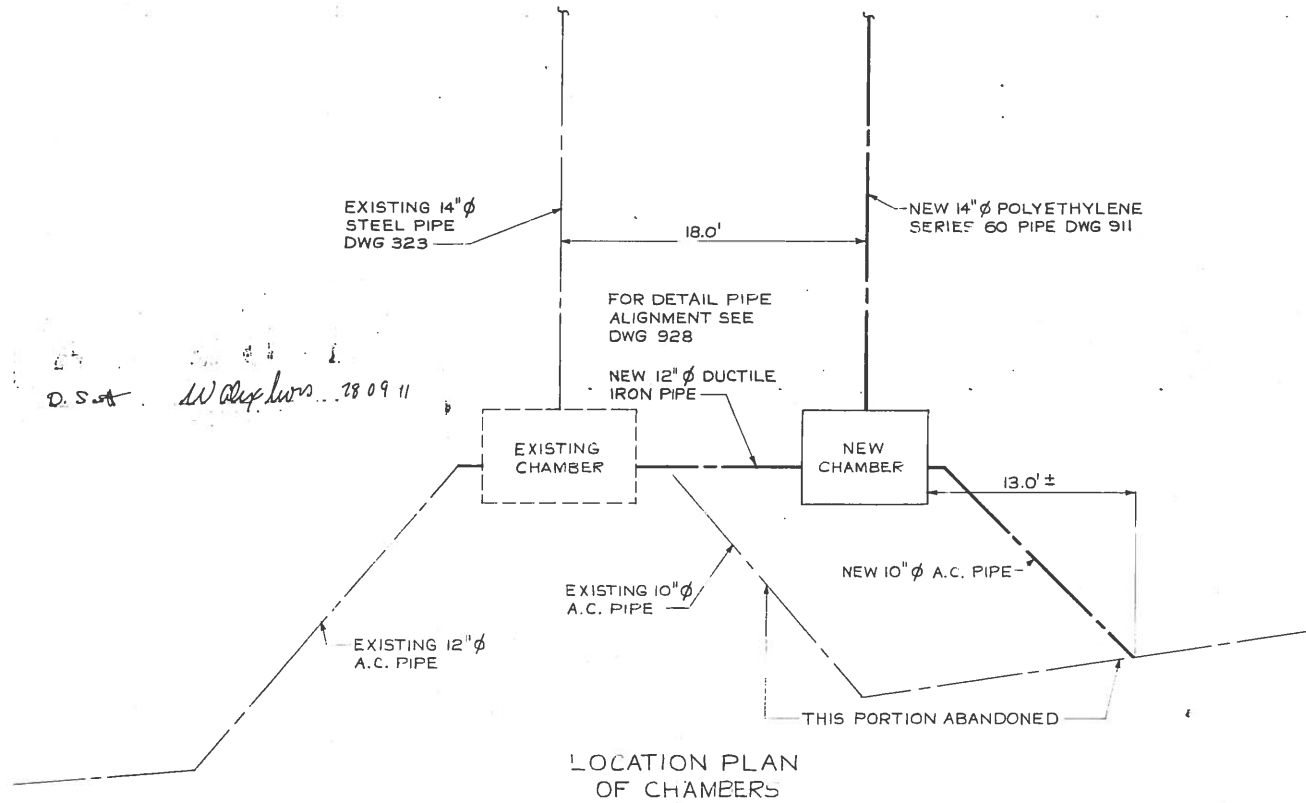
9/a



LIST OF MATERIAL

Item	Description	Length	Quantity
1	14"x12" Eccentric reducer flg. to vict.	1'-4"	1
2	12" wall piece c/w conc. ring flg to vict.	2'-9"	1
3	12" wall piece c/w conc. ring bell to vict.	2'-6"	1
4	14"x14"x14" Tee vict to vict to vict	2'-4"	2
5	14" Short pipe vict to flg.	0'-9 1/2"	2
6	14" Dezurik knife gate valve	0'-3"	2
7	14"x12" Concentric reducer flg. to vict.	1'-4"	2
8	12" Wall piece c/w conc. ring bell to vict.	1'-6"	1
9	14"x10" Eccentric reducer flg. to vict.	1'-4"	1
10	10" Wall piece c/w conc. ring flg. to vict.	1'-6"	1
11	14" Wall piece c/w conc. ring flg. to flg.	1'-11"	2
12	Valve box	-	1
13	Poured in place concrete saddle	-	2
14	Standard City of Wpg M.H. frame and cover	-	1
15	Standard City of Wpg M.H. steps	-	-
16	14" Adapter flange vict style 341	-	2
17	12" Adapter flange vict style 341	-	3
18	10" Adapter flange vict style 341	-	1
19	12" Robar coupling Style B7-B7	-	1

NOTE:
 1. ALL PIPE AND FITTINGS IN EXISTING AND NEW CHAMBERS ARE CAST IRON.



REVISIONS

NO.	DESCRIPTION	DATE	BY
1	ADDED NOTE	TAN 92	EN
2	REVISED TO AS BUILT	AUG 18 91	EN
3	NOTE ADDED - VICT ADAPTER FLG	OCT 17 91	V.D.
4	DIMENSIONS CHANGED PROPOSED PIT	OCT 17 91	V.D.
5	SERIES 80 CHANGED TO 60	OCT 17 91	BB
6	ITEMS 9, 11, 12, CHANGED	OCT 17 91	UD
7	STYLE 77 CHANGED TO STYLE 31	OCT 17 91	UD
8	LARGE ADJ. VALVE BOXES ADDED	OCT 17 91	UD

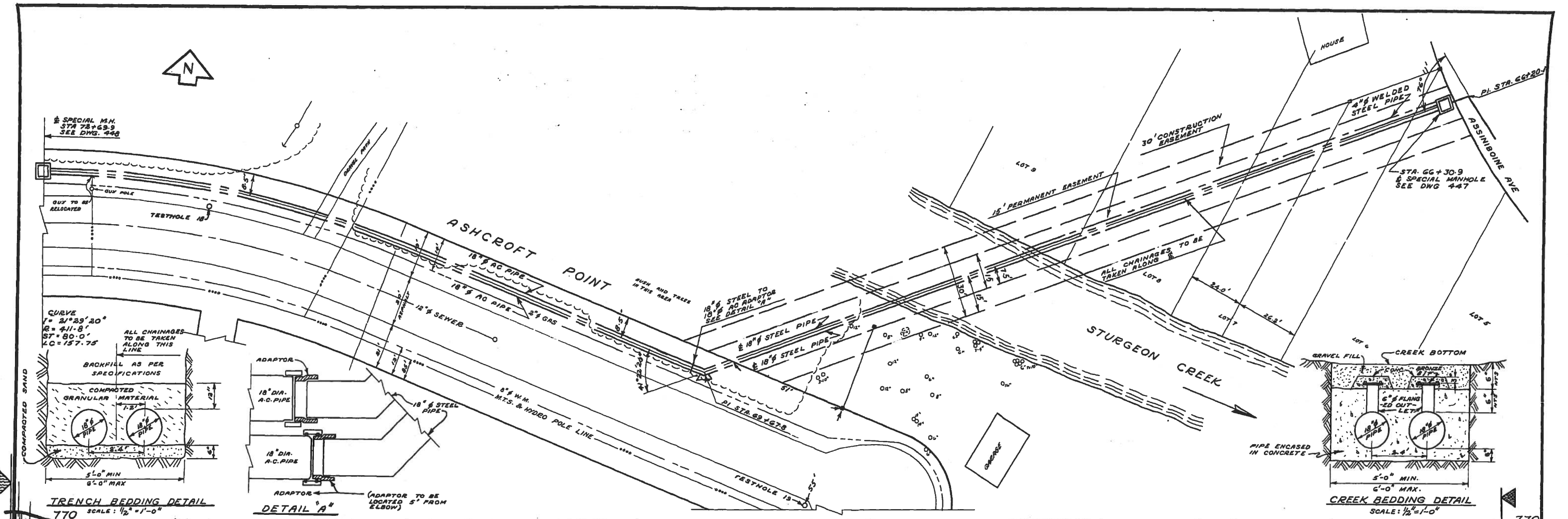
The City of Winnipeg
 Waterworks, Waste and Disposal Division

ENGINEERING BRANCH
 WASTE DISPOSAL

NEWTON RIVER X-ING
 VALVE CHAMBER
 DETAILS

DESIGNED BY B. BRICK	DRAWN BY V. DUMORE
CHECKED BY <i>[Signature]</i>	DATE JUNE 1977
APPROVED BY <i>[Signature]</i>	
SCALE 3/4" = 1'-0" OR AS NOTED	DRAWING NO. 913

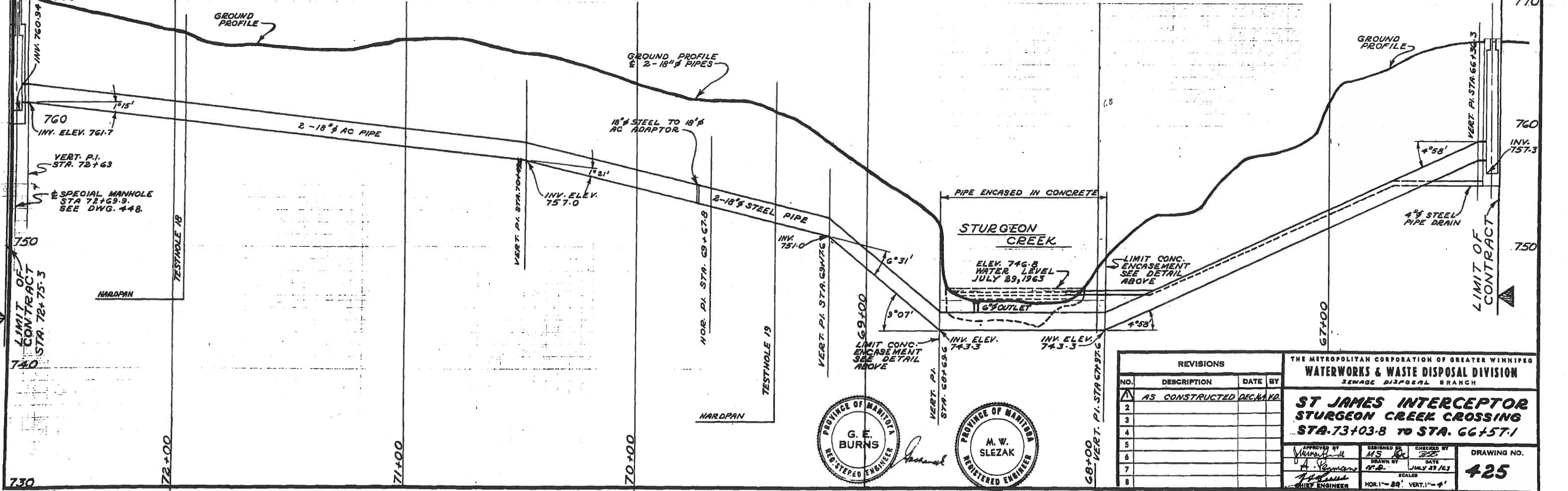
file # IN10473



TRENCH BEDDING DETAIL
770
SCALE: 1/2" = 1'-0"

DETAIL A
(ADAPTOR TO BE LOCATED 5' FROM ELBOW)

CREEK BEDDING DETAIL
SCALE: 1/2" = 1'-0"



REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	AS CONSTRUCTED	DEC. 1963	DECKARD
2			
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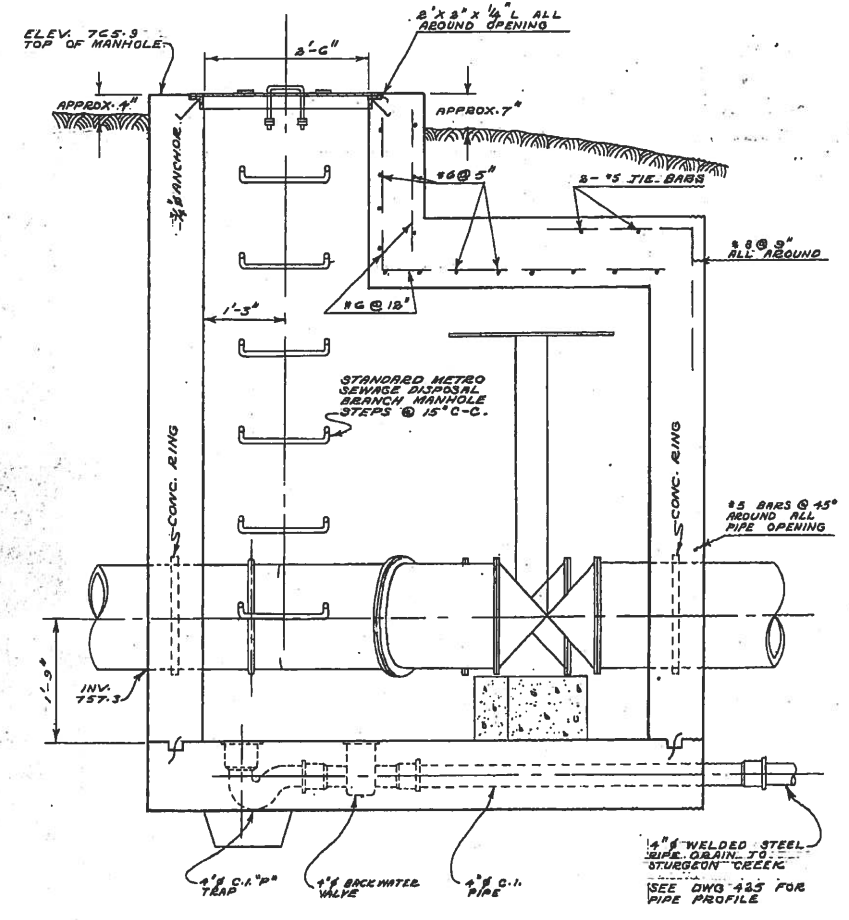
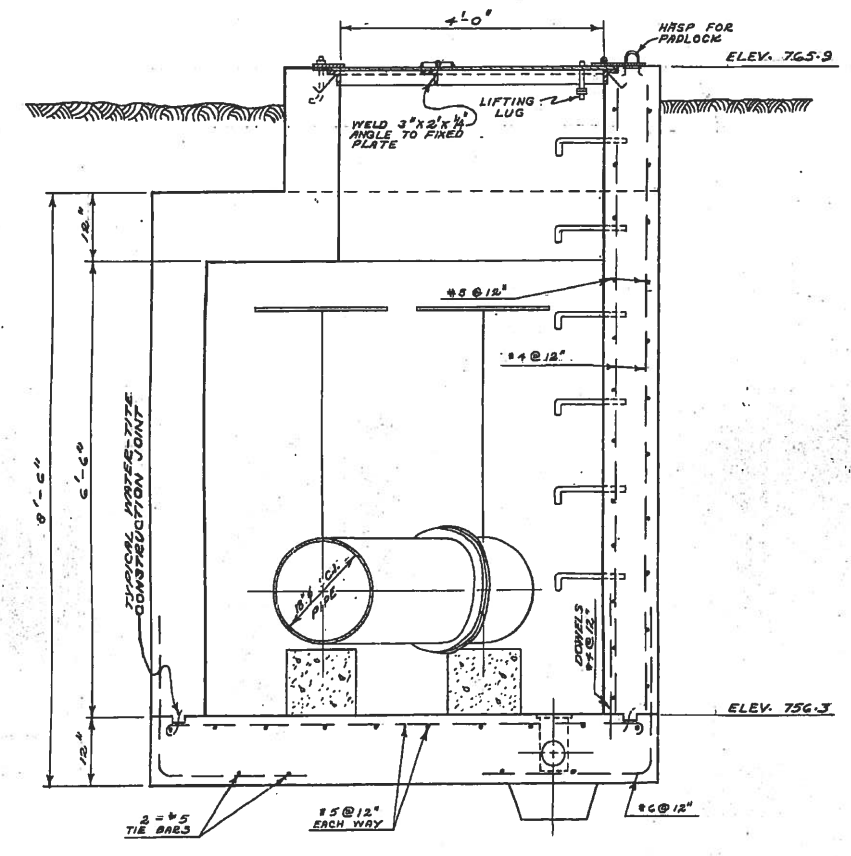
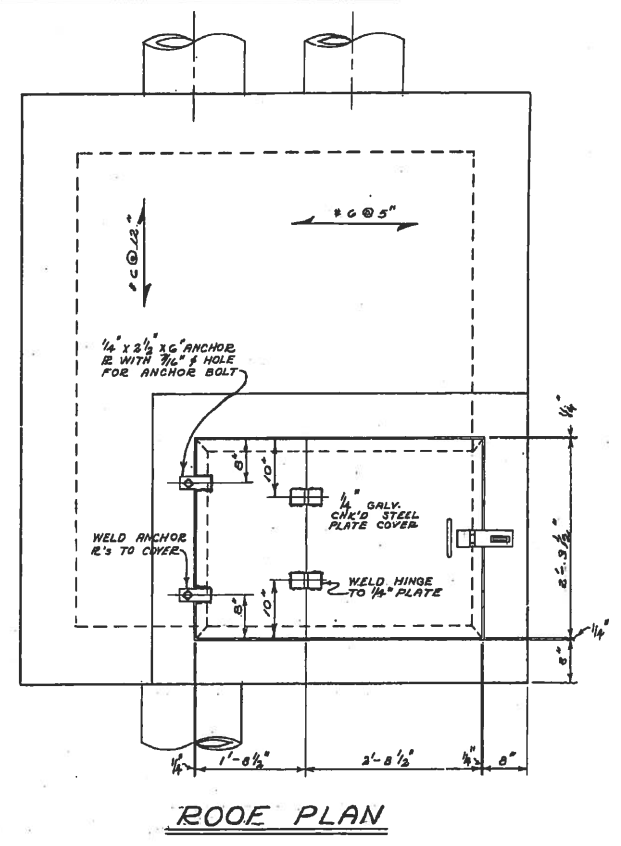
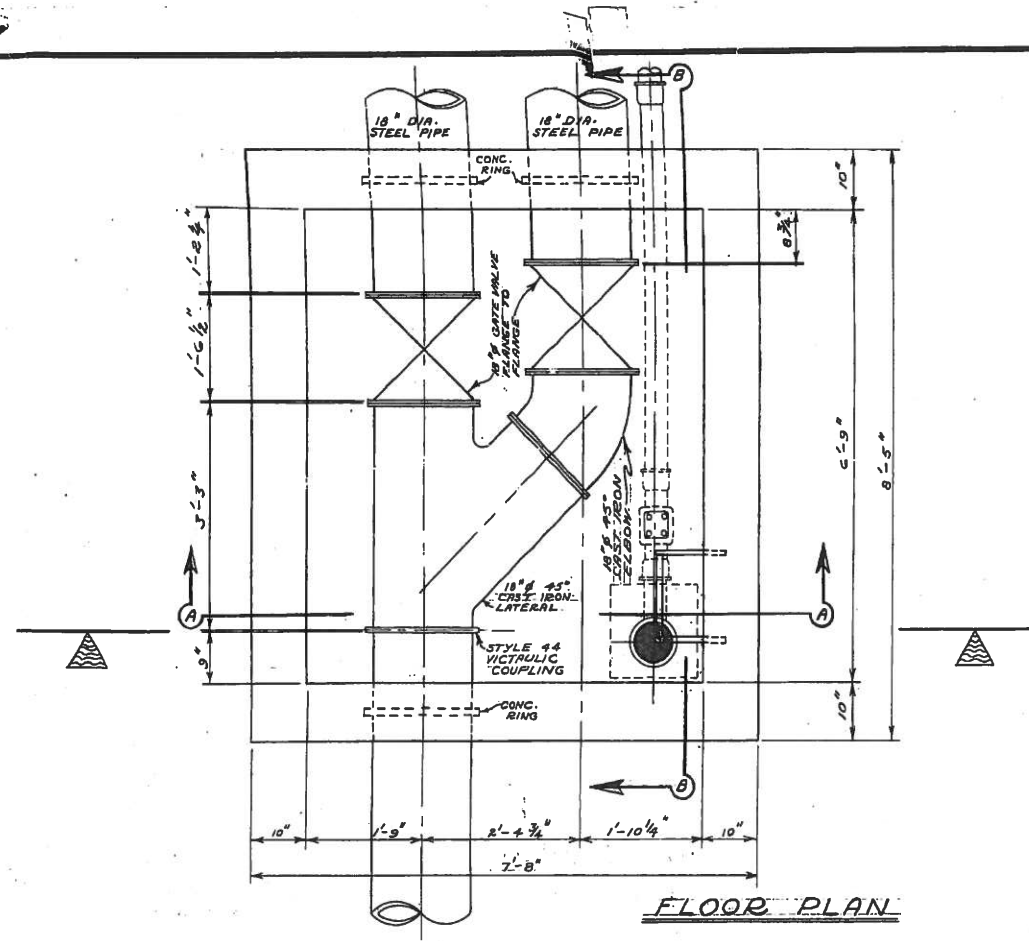
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
WATERWORKS & WASTE DISPOSAL DIVISION
SEWAGE DISPOSAL BRANCH

**ST JAMES INTERCEPTOR
STURGEON CREEK CROSSING
STA. 73+03.8 TO STA. 66+57.1**

APPROVED BY: *[Signature]* DATE: JULY 23/63
DRAWN BY: *[Signature]*
SCALE: HOR. 1" = 80' VERT. 1" = 4'

DRAWING NO. **425**





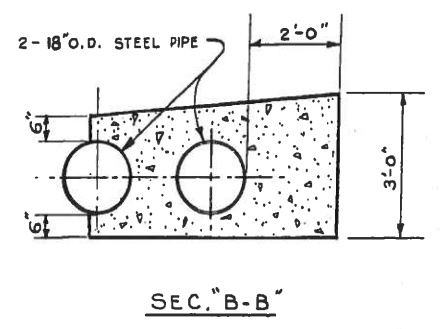
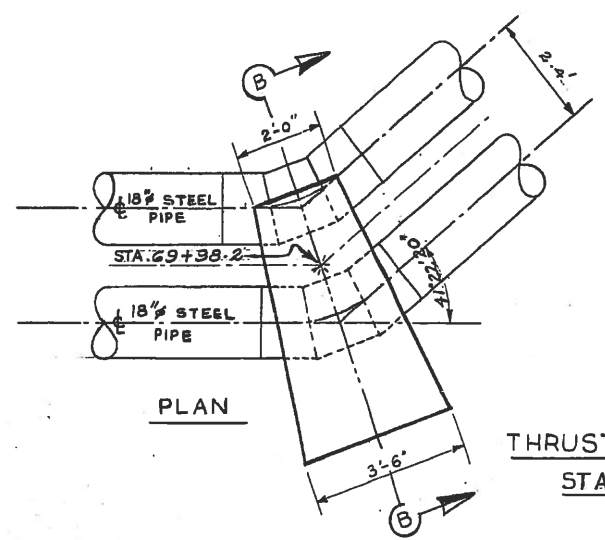
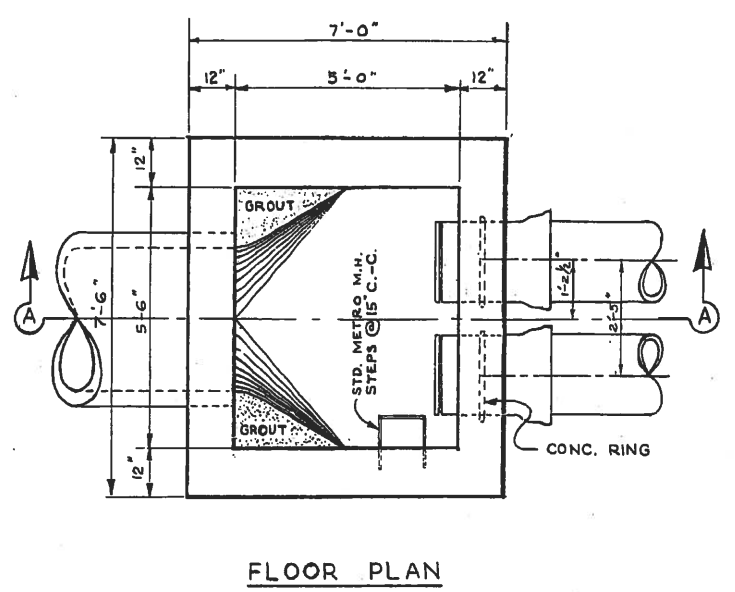
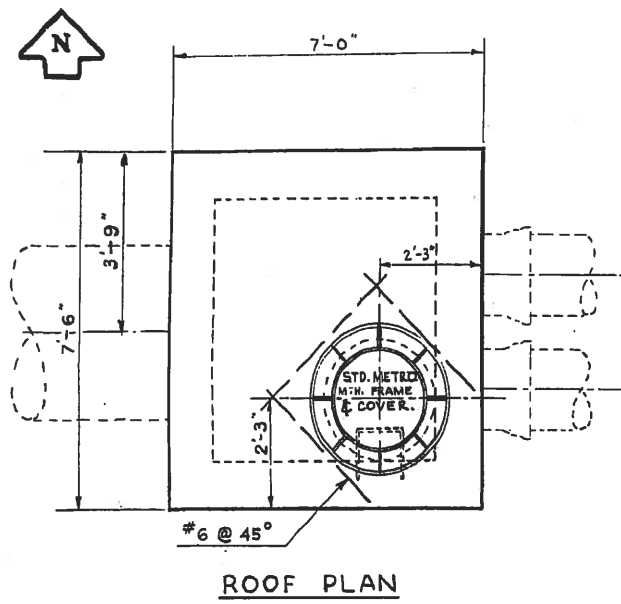
AS BUILT
MAR. 1921 E.D.

HOT GALVANIZE ALL MISCELLANEOUS IRON AND STEEL WORK.



REVISIONS		
NO.	DESCRIPTION	DATE BY
1		
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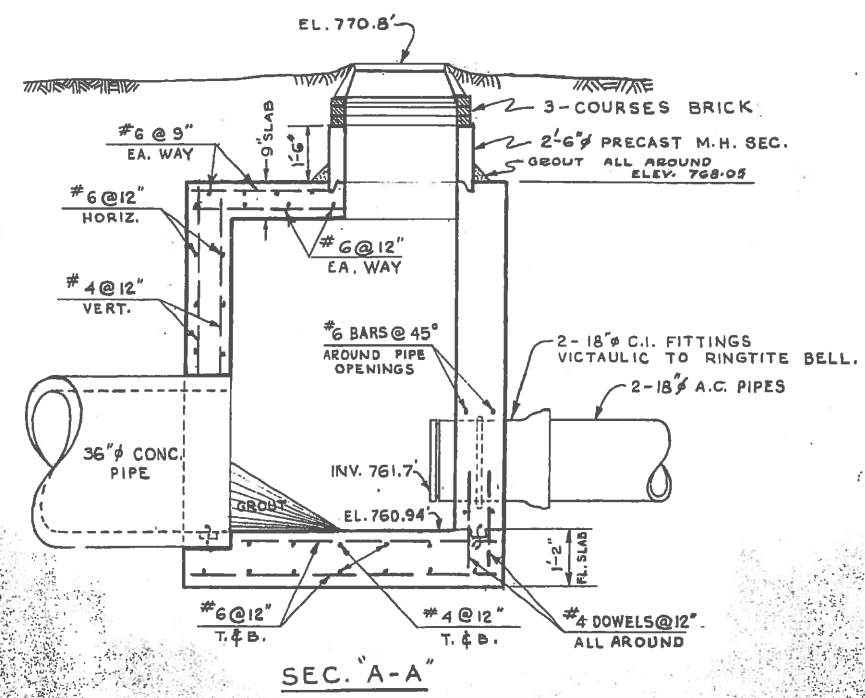
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG		
WATERWORKS & WASTE DISPOSAL DIVISION		
SEWAGE DISPOSAL BRANCH		
ST. JAMES INTERCEPTOR		
SPECIAL MANHOLE STA. 66+613		
ASSINIBOINE AVE.		
STURGEON CREEK X-ING		
APPROVED BY <i>[Signature]</i>	DESIGNED BY M.S. SC	CHECKED BY JES
DRAWN BY M.G.	DATE JUNE 1963	DRAWING NO. 447
SCALE 3/4" = 1'-0"		



THRUST BLOCK DETAIL
STA. 69+98.2

NOTES

- 1 HOT. GALV. ALL MISC. IRON & STEEL WORK.
- 2 CEMENT FONDU SHALL BE USED IN ALL CONC. WORK FOR SPECIAL MANHOLE.
- 3 SUPPLY 2-18" STYLE 44 VICTAULIC COUPLINGS



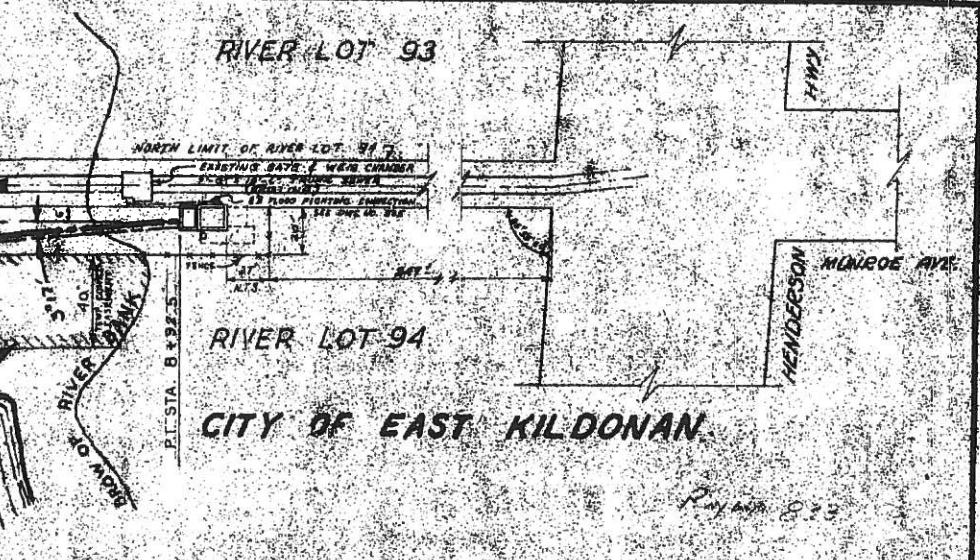
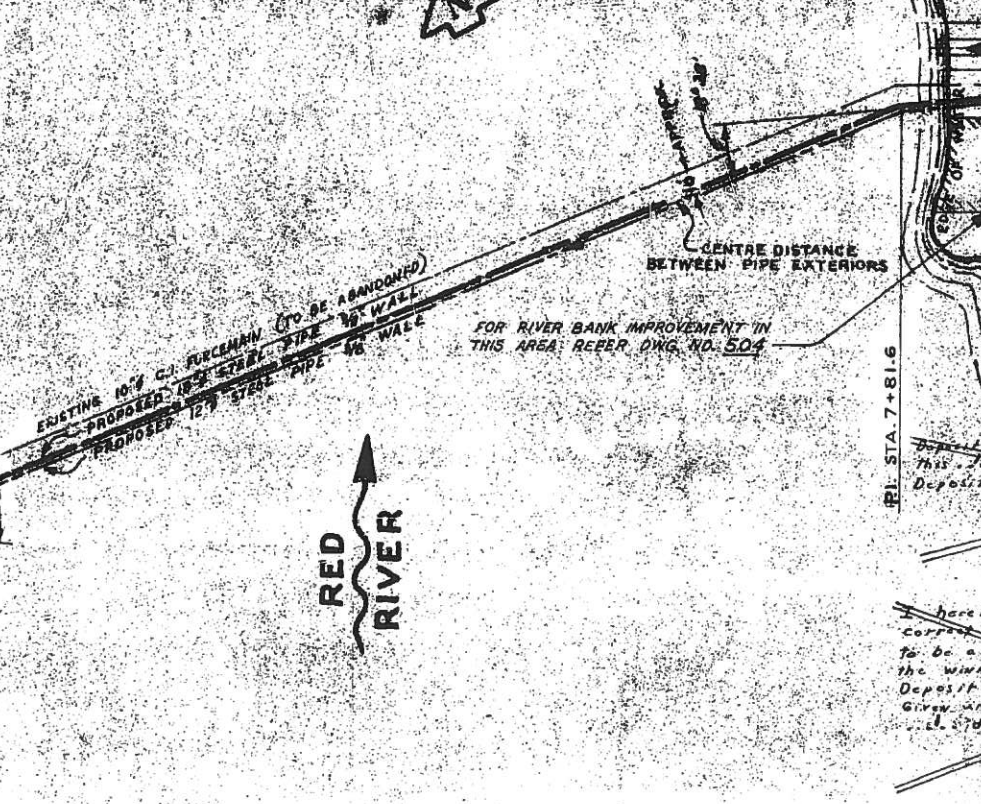
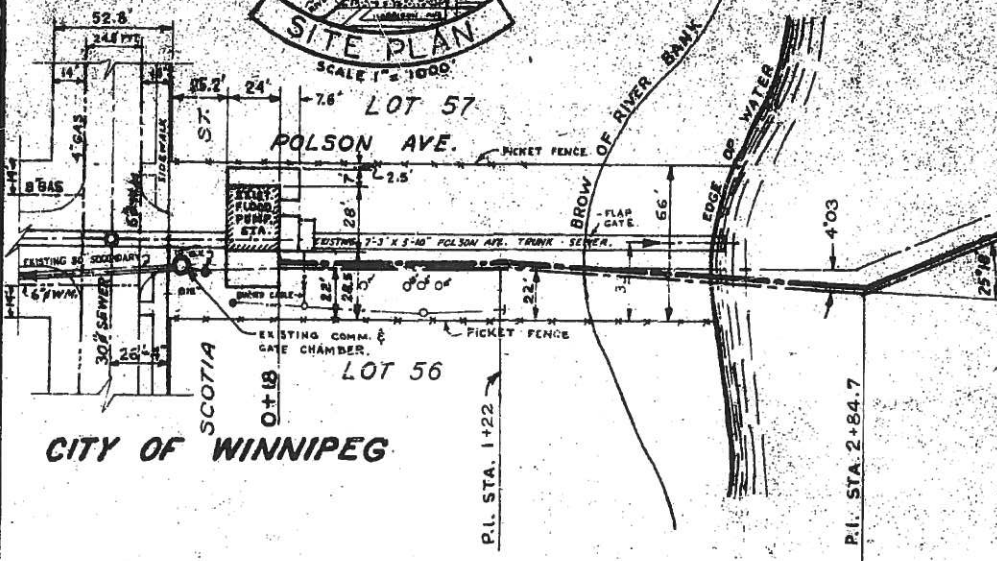
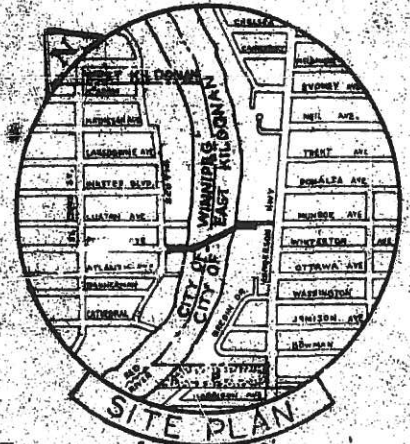
SPECIAL MANHOLE AT ASHCROFT PT.
STA. 73+00.3

AS BUILT
MAR. 1971. V.D.



REVISIONS				THE METROPOLITAN CORPORATION OF GREATER WINNIPEG	
NO.	DESCRIPTION	DATE	BY	WATERWORKS & WASTE DISPOSAL DIVISION SEWAGE DISPOSAL BRANCH	
1					
2					
3					
4					
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8					

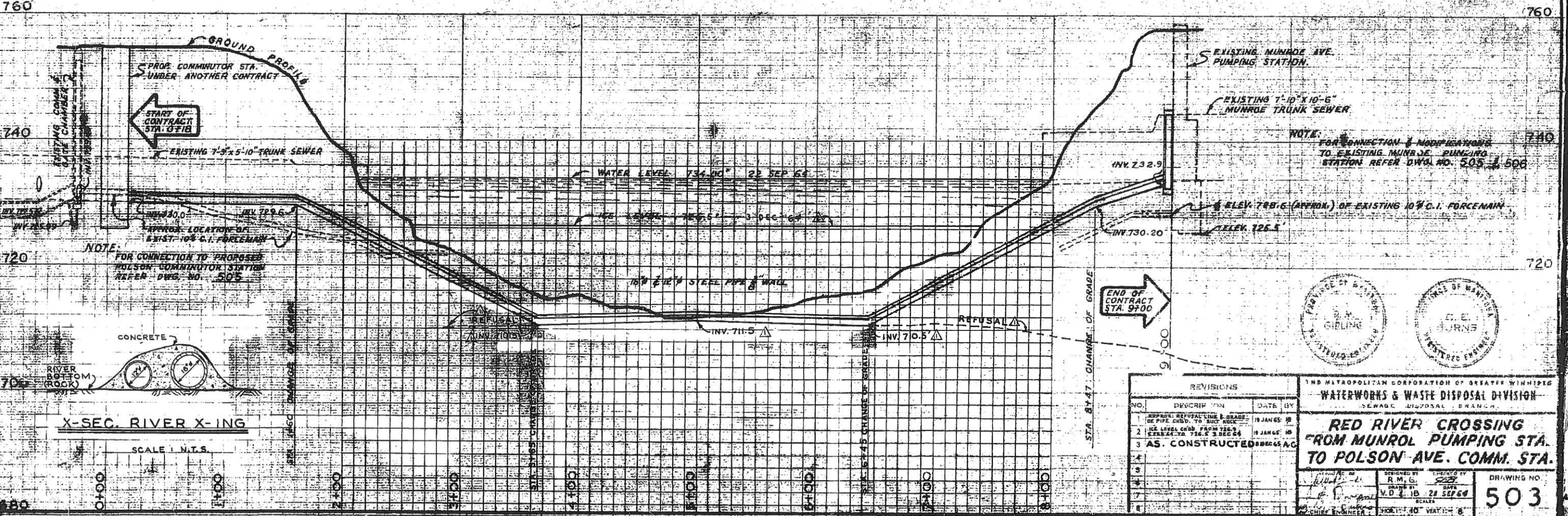
APPROVED BY <i>[Signature]</i> CHIEF ENGINEER	DESIGNED BY M.W. SLEZAK	CHECKED BY <i>[Signature]</i> DATE 31 MAY 63	DRAWING NO. 448
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Deposited in the Winnipeg Land Titles Office
 This Plan of 22nd Sept. A.D. 1964 of 450 sq. ft. as Highway
 Deposit No. 833
 Signed "E. A. O'Brien"
 Dep. District Registrar

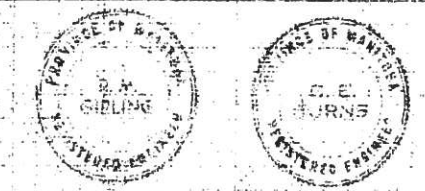
I hereby certify that this is a true and correct print of the plan of which it purports to be a print and which is registered in the Winnipeg Land Titles Office as Highway Deposit No. 833
 Given under my hand and seal of office this 11th day of Sept. A.D. 1964
 E. A. O'Brien
 Dep. District Registrar

I CERTIFY THAT A DUPLICATE COPY OF THIS PLAN WAS DEPOSITED IN THE REGISTRY OFFICE FOR THE DISTRICT OF WINNIPEG, PROVINCE OF MANITOBA ON 11th DAY OF SEPTEMBER 1964, UNDER THE PROVISIONS OF THE NAVIGABLE WATERS PROTECTION ACT.
 DEPUTY DISTRICT REGISTRAR



NOTE: FOR CONNECTION & MODIFICATIONS TO EXISTING MUNROE PUMPING STATION REFER DWG. NO. 505 & 506

NOTE: FOR CONNECTION TO PROPOSED POLSON COMMUNITOR STATION REFER DWG. NO. 505



REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	APPROX. REFUSAL LINE & GRADE OF PIPE CHG. TO SUCT. ROCK	19 JAN 65	MB
2	ICE LEVELS CHG. FROM 728.5 TO 726.5 3 DEC 64	19 JAN 65	MB
3	AS. CONSTRUCTED	28 DEC 65	AG
4			
5			
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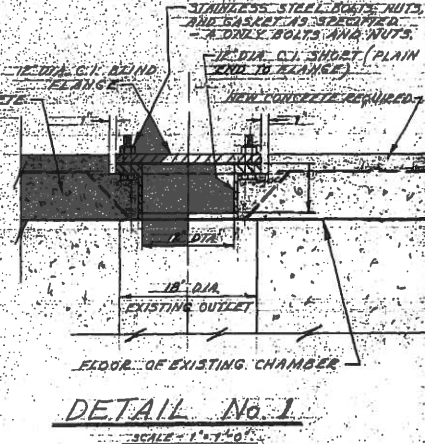
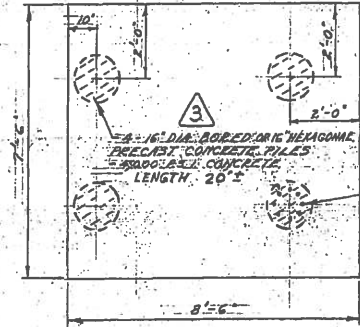
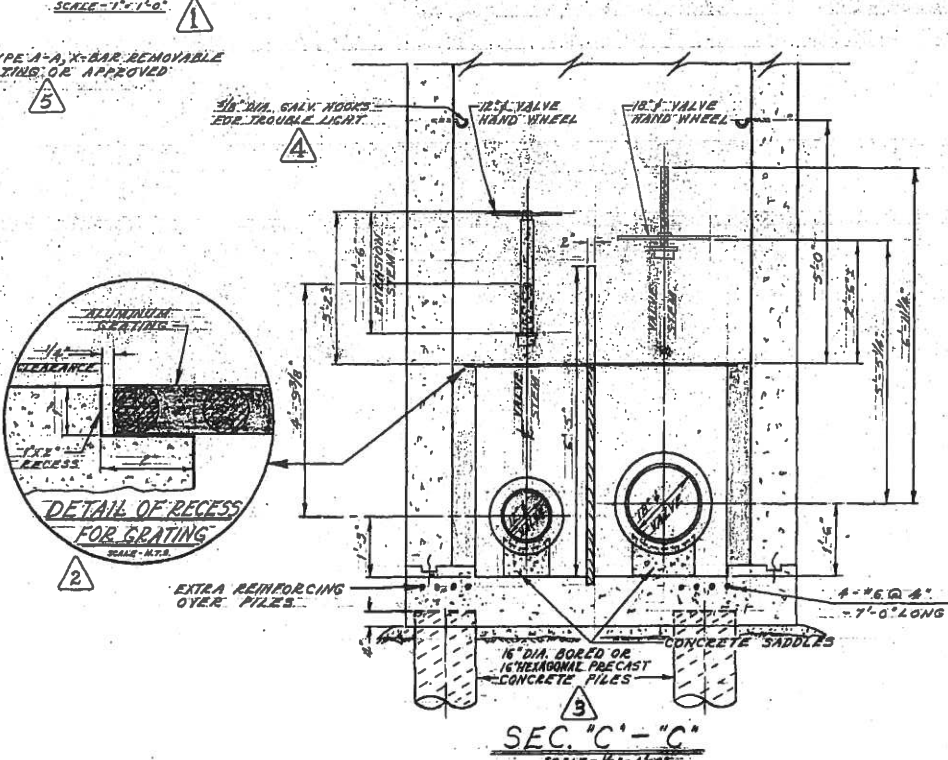
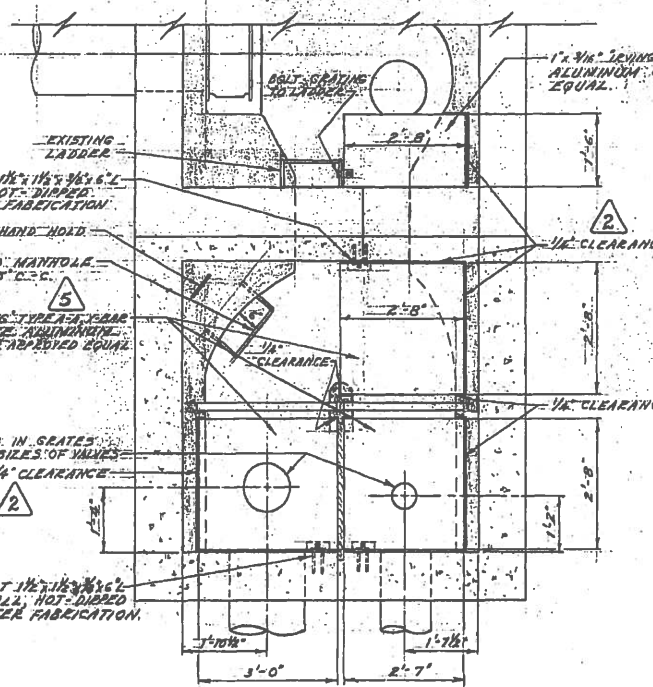
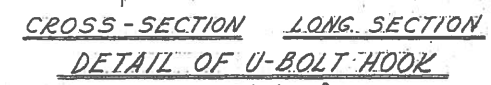
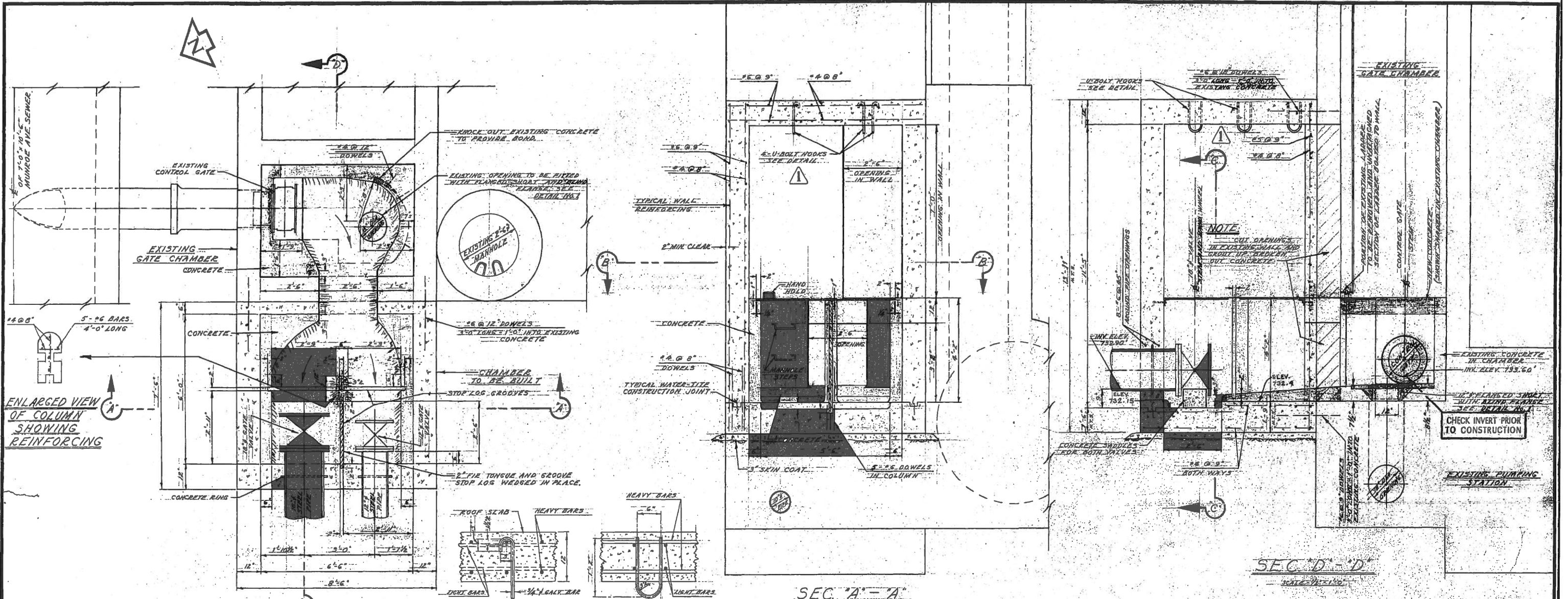
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
WATERWORKS & WASTE DISPOSAL DIVISION
 SEWAGE DISPOSAL BRANCH

RED RIVER CROSSING FROM MUNROE PUMPING STA. TO POLSON AVE. COMM. STA.

DESIGNED BY: R.M.G.
 DRAWN BY: V.D.L.B.
 DATE: 28 SEP 64
 SCALE: 1" = 40' VERT. 1" = 6'

DRAWING NO. **503**

NOTE: FOR REGD. PLAN ORIGINAL, NEED WITH WINNIPEG LAND TITLES OF DEPT. OF PUBLIC WORKS OF MAN. SEE SERIAL OF DWG. NO. 503



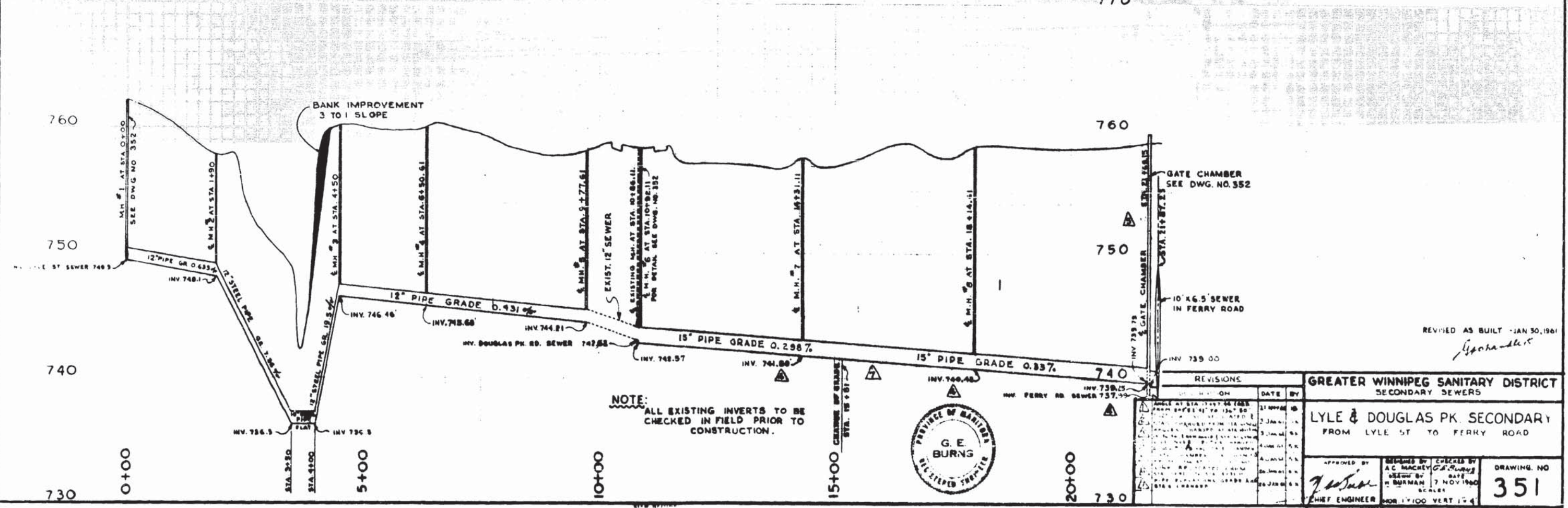
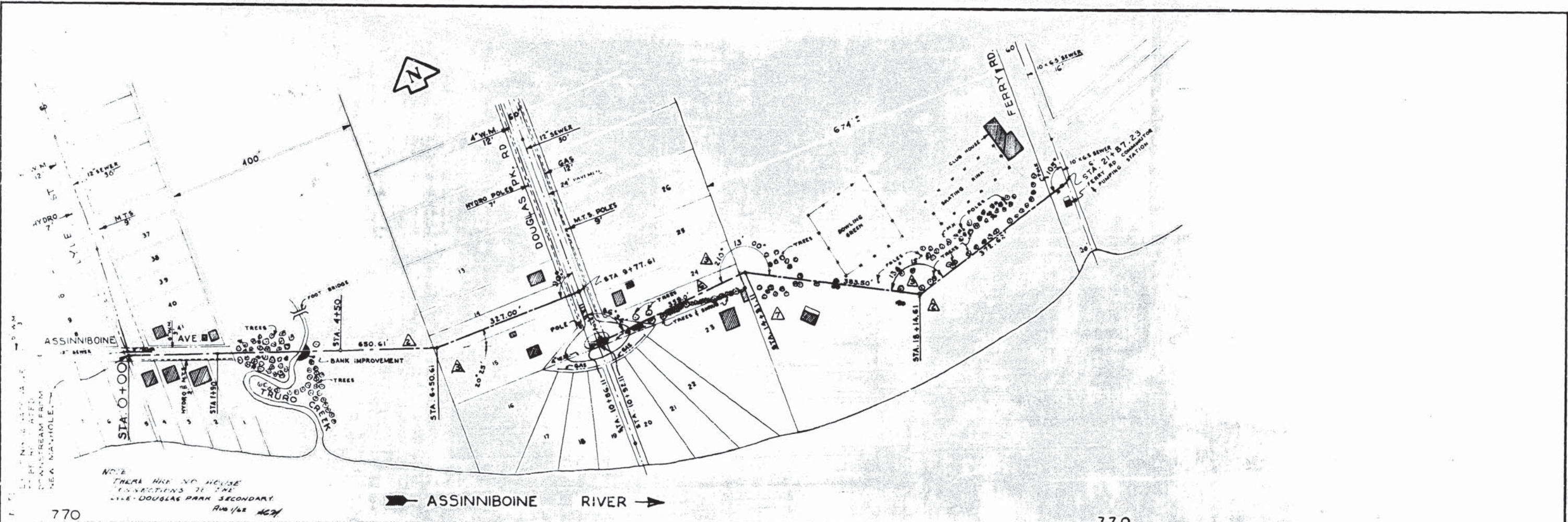
NO.	DESCRIPTION	DATE	BY
AS CONSTRUCTED		18 NOV. 64	A.C.
1	TYPE OF IRVING GRATE	18 NOV. 64	S.R.
2	HOOKS FOR TROUBLE LIGHTS	24 NOV. 64	S.R.
3	USE OF PRECAST PILES AS ALTERNATE	24 NOV. 64	S.R.
4	DETAIL OF RECESS AND OPENING IN WALL	24 NOV. 64	S.R.
5	U-BOLT HOOK DETAIL AND LOCATION OF HOOKS	26 NOV. 64	S.R.

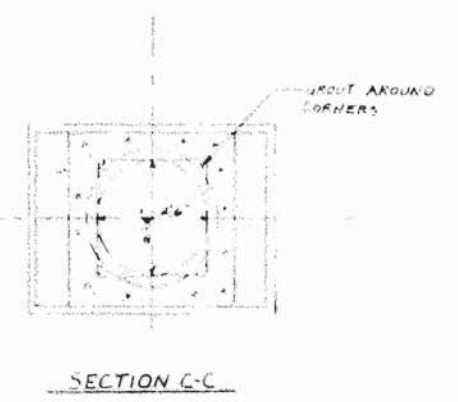
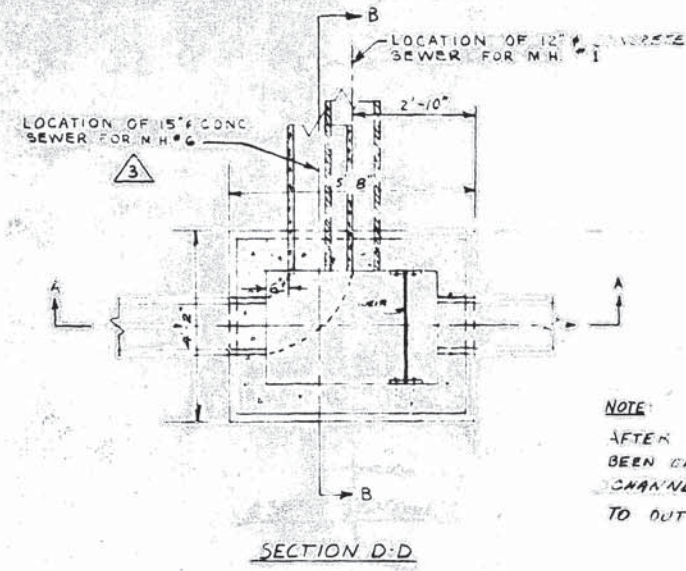
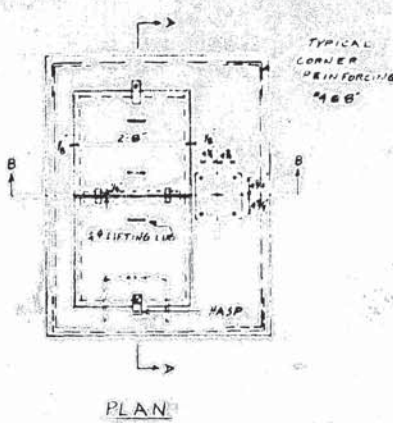
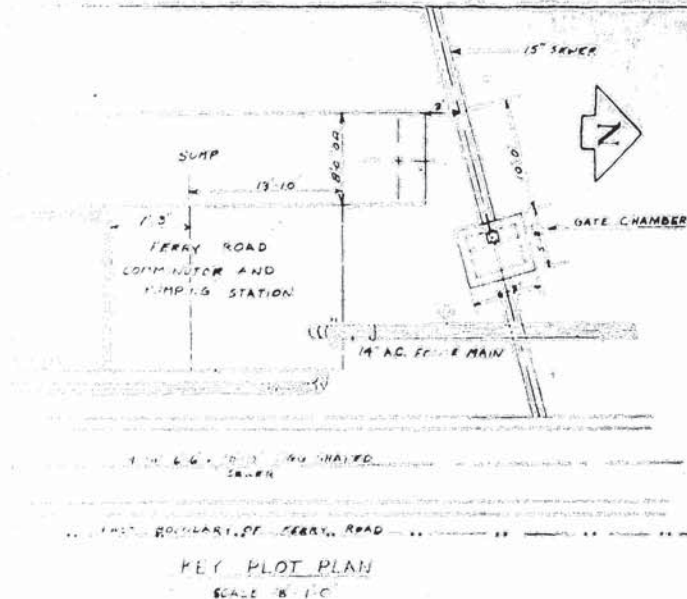
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
WATERWORKS & WASTE DISPOSAL DIVISION
 N. S. BUBBIS - DIRECTOR

SEWAGE DISPOSAL DEPT.
MUNROE - POLSON RIVER CROSSING ALTERATIONS TO MUNROE AVE. PUMPING STATION & PROP. SIPHON INLET CHAMBER
 DRN. S.K. DATE 18 NOV. 64
 ENG. DES. J. J. J. J.
 ENG. WASTE DES. A. J. J. J.
 APPROVED *V. R. R.*

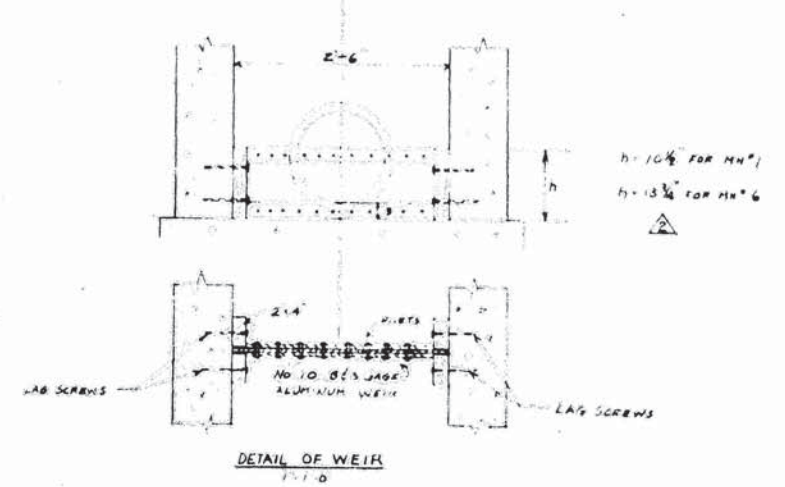
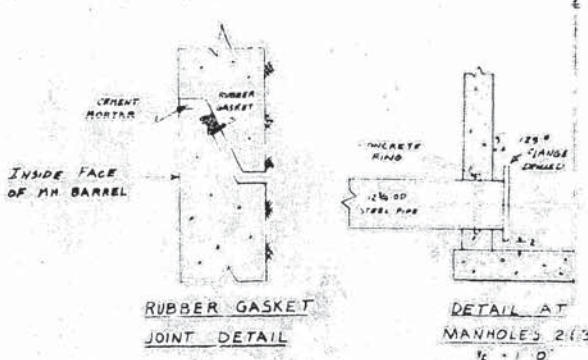
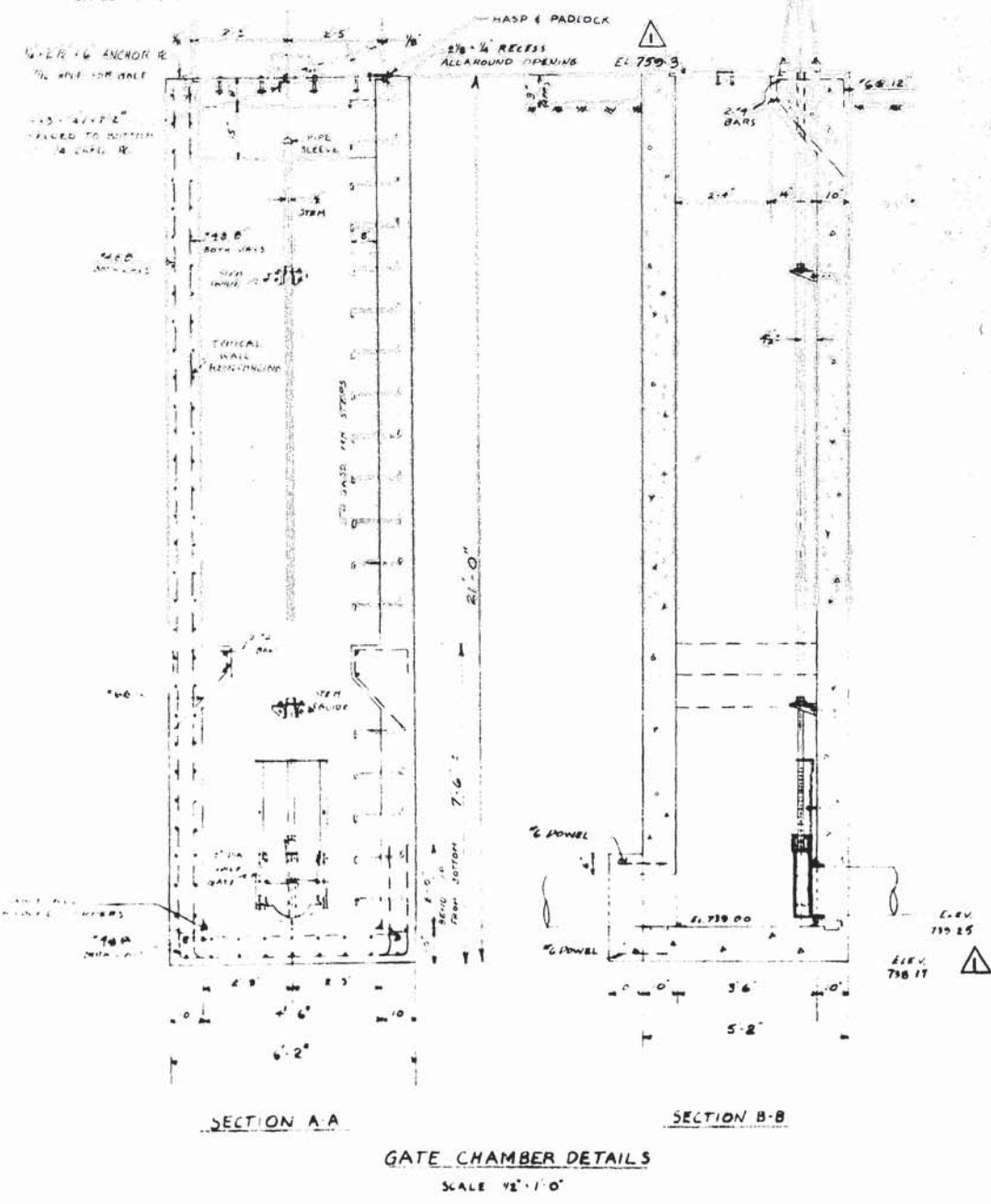
SCALES
 1/2" = 1'-0" AND AS NOTED.
 DRAWING NO. **506**



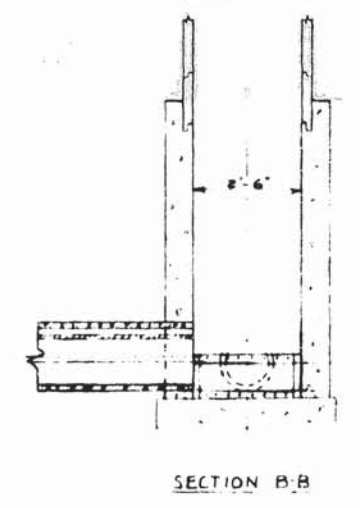
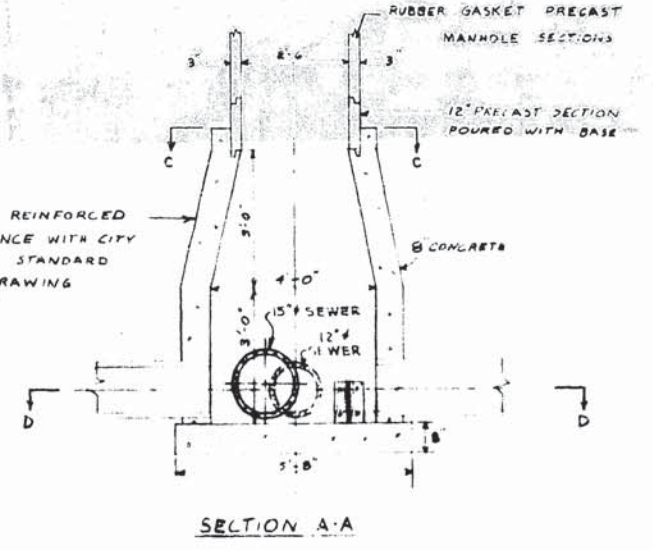




NOTE:
AFTER MANHOLES HAVE BEEN CAST GROUT A SMOOTH CHANNEL & BASE FROM INLET TO OUTLET



BASE TO BE REINFORCED IN ACCORDANCE WITH CITY OF WINNIPEG STANDARD MANHOLE DRAWING NO 14602-E



NOTE
ALL MANHOLES TO HAVE POURED BASE AND PRECAST MANHOLE BARREL SECTIONS AS DETAILED ABOVE.

DETAILS OF MANHOLES
NO 1 AND 6
SCALE 1/2\"/>



REVISIONS			GREATER WINNIPEG SANITARY DISTRICT SEWERS	
NO	DESCRIPTION	DATE BY		
1	Gate Chamber dimensions changed to 14' x 10' 6"	20 JAN 81		
2	LOCATION OF ENTRANCE OF 15\"/>	16 JAN 81		
3	NOTE ADDED	20 MAR 81		

APPROVED BY <i>[Signature]</i> CHIEF ENGINEER	DRAWN BY A.C. MALONEY	CHECKED BY A.C. MALONEY	WORKING NO 352
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