The City of Winnipeg RFP No. 636-2010

Appendix C

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## **APPENDIX C - RELEVANT DOCUMENTS**

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## **Relevant Documents**

The following documents are available for viewing through the Project Manager at the Resource Centre located at 1199 Pacific Avenue.

Construct the Shoal Lake Aqueduct - Branch I Aqueduct underdrain access manholes, cleaning and inspection [W-455; Tender No. 0834-2000 or 834-2000].

Author: UMA Engineering Ltd

Call number: TA 180 .S658 2000 NO.34

Aqueduct Rehabilitation Program: Branch 1 Aqueduct capacity upgrading study: Work area 2.5.8 -

underdrain assessment. Author: UMA Engineering Ltd Call number: TD 398 .C372 NO.4

The following as-constructed drawings are attached.

Reference: Supplementary Conditions; D5.2

Drawing No.	<u>Drawing Title</u>
C-143	Details of Culvert as STA 1868+00.0
C-182	Details of Culvert as STA. 1985+00
D-11544	Shoal Lake Aqueduct Drainage Siphon repairs Miles 50.31, 53.75 & 55.23; Drainage Siphon Mile 50.31 (Site 1) Plans and Sections.
D-11545	Shoal Lake Aqueduct Drainage Siphon repairs Miles 50.31, 53.75 & 55.23; Drainage Siphon Mile 53.75 (Site 2) Plans and Sections.
D-11546	Shoal Lake Aqueduct Drainage Siphon repairs Miles 50.31, 53.75 & 55.23; Drainage Siphon Mile 55.23 (Site 3) Plans and Sections.
D-11547	Shoal Lake Aqueduct Drainage Siphon repairs Miles 50.31, 53.75 & 55.23; Miscellaneous Details.

Reference: Supplementary Conditions; D5.3. Please note that Drawing D-6834 is a similar drawing with respect to D5.3(h).

Drawing No.	<u>Drawing Title</u>
D-283	Detail of Boat Entrance at Boggy River #2 SEC. 6.T8.R.15
D-302	Aqueduct Plan and Profile; Mile 81.82 to mile 84.66
D-469	Detail of Overflow and Blowoff structure at STA: 4384+00 (1).
D-470	Detail of Overflow and Blowoff structure at STA: 4384+00 (2).
D-473	Detail of Depressed Aqueduct at Boggy River #2 SEC 6.T8.R15.
D-475	Boggy River Crossing #2; Details of Risers for Depresses Section
D-6834	Shoal Lake Aqueduct Right-of-Way drainage improvements Mile 41.3 to Mile 42.05; Proposed Drainage Improvements Plan and Profile.
D-6835	Shoal Lake Aqueduct Right-of-Way drainage improvements Mile 41.3 to

Mile 42.05; Proposed Drainage Improvements & Miscellaneous Details.

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Reference: Supplementary Conditions; D5.4. Please note that the drawings below were those of the boathouse superstructure previously located at Mile 64.14.

<u>Drawing No.</u> <u>Drawing Title</u>

D-180 Aqueduct Plan and Profile; Mile 63.45 to 66.38

D-217 Detail of Overflow and Blowoff Structure at Whitemouth River SEC.

21.T8.R12 (1).

D-218 Detail of Overflow and Blowoff Structure at Whitemouth River SEC.

21.T8.R12 (2).

D-220 Detail of Boat Entrance at Whitemouth River Crossing.

Reference: Supplementary Conditions; D5.5.

<u>Drawing No.</u> <u>Drawing Title</u>

A-540 Manhole Details over underdrains for Lock Joint Pipe

B-143 8'-0" Circular Reinforced Aqueduct

B-384 Comparison of Methods of Underdrainage of Aqueduct Section A

Reference: Supplementary Conditions; D5.7.The following is an Image of the existing Aluminum Stop Log.



Reference: Supplementary Conditions; D5.8.The following are Images of the existing Safety Hoist.





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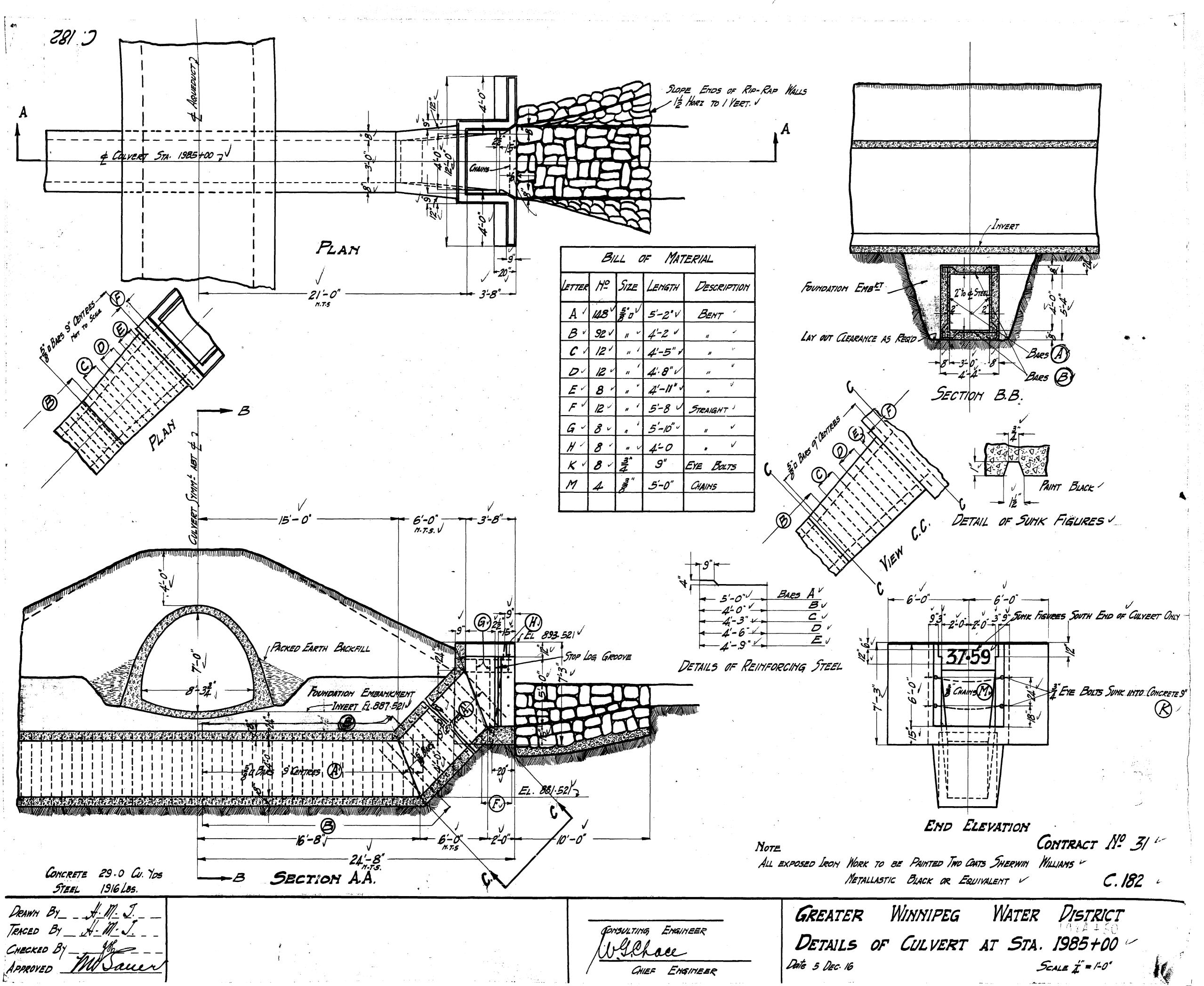
Drann by F.S.A Traced ... H.9.4. Approved by M. Jauen

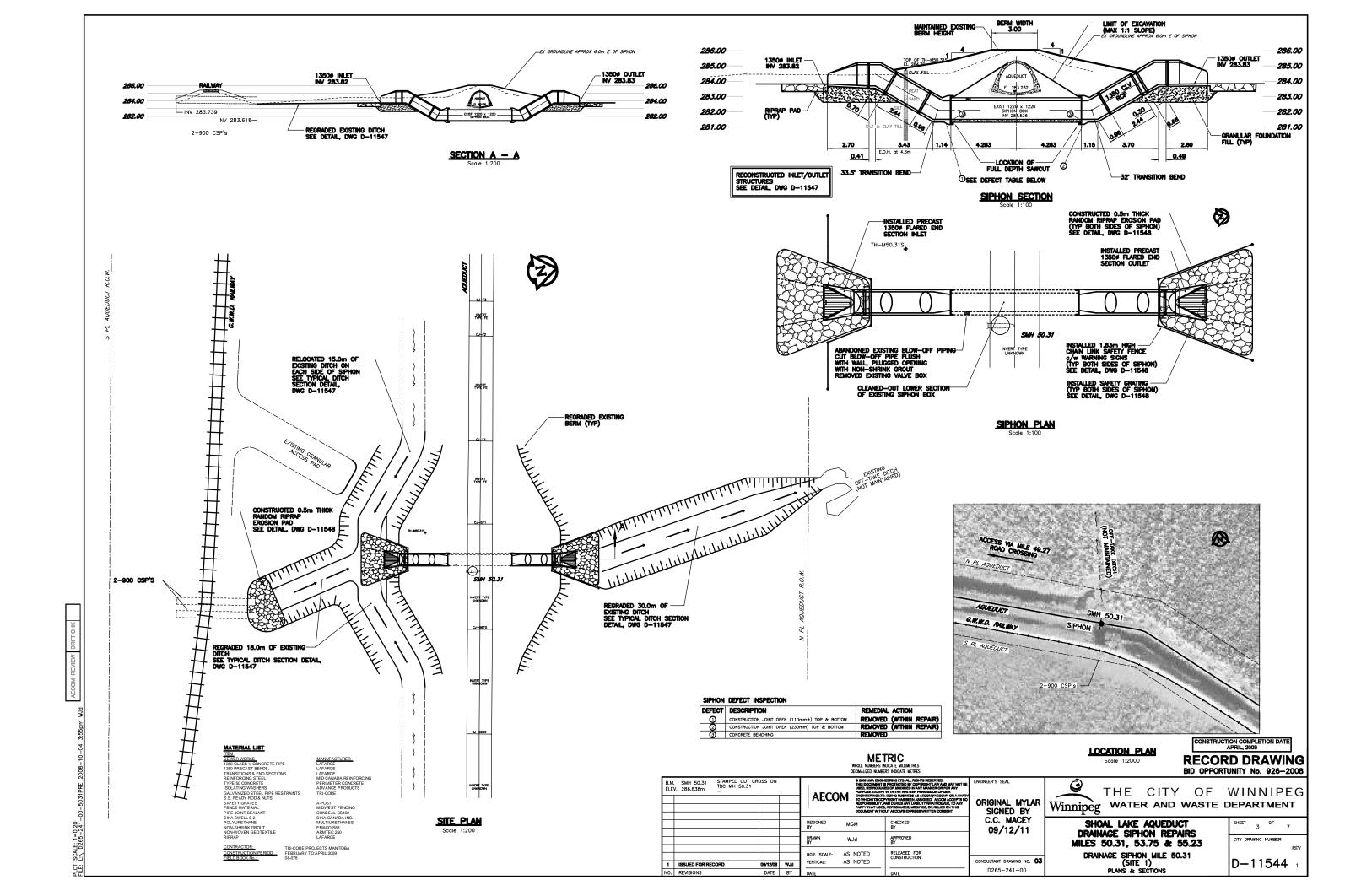
Aues A Fuertes . Consulting Engineer OSChace Chief Engineer

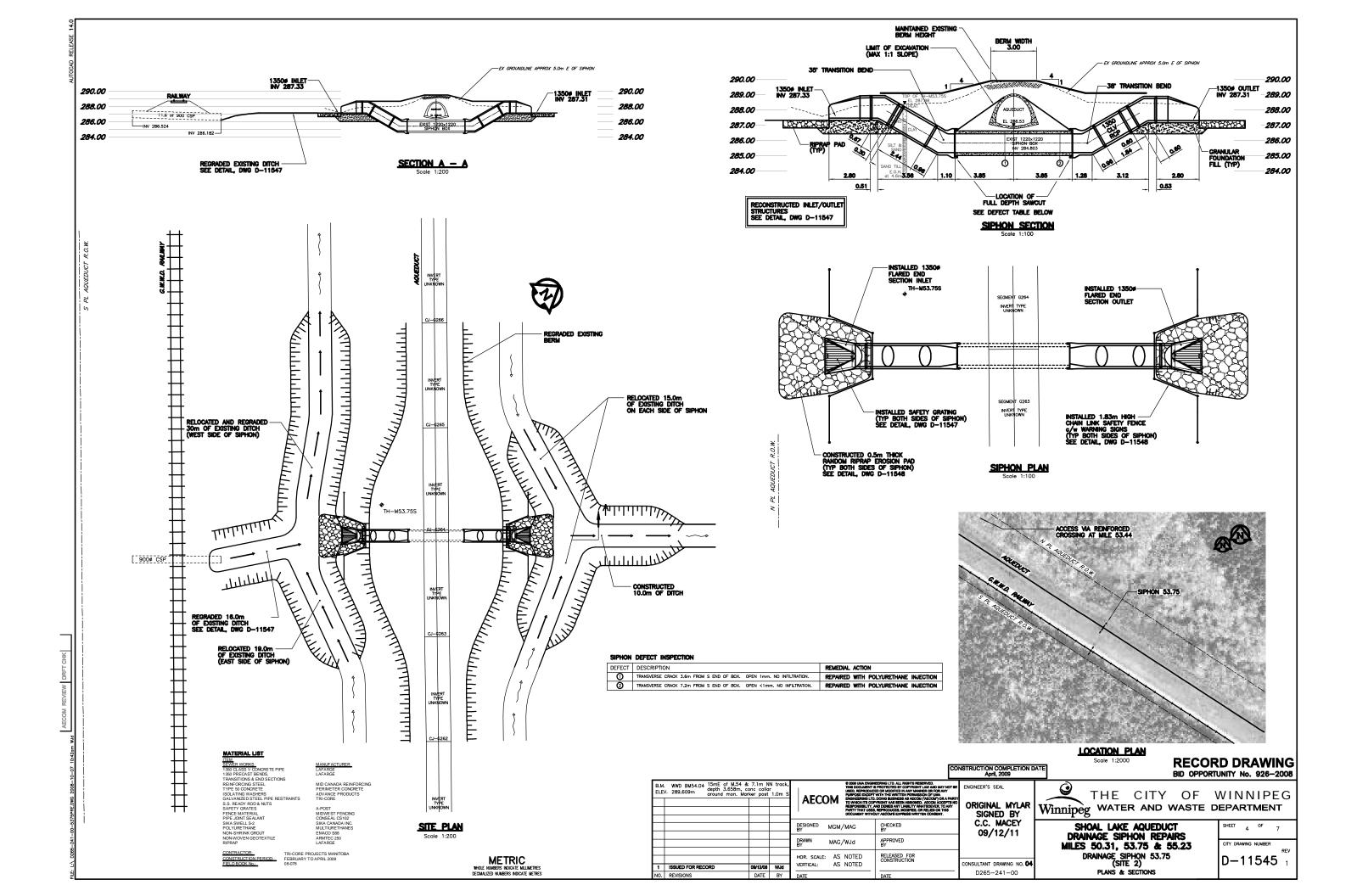
GREATER WINNIPEG WATER DISTRICT DETAILS OF GULYERT AT STA 1868-00.0

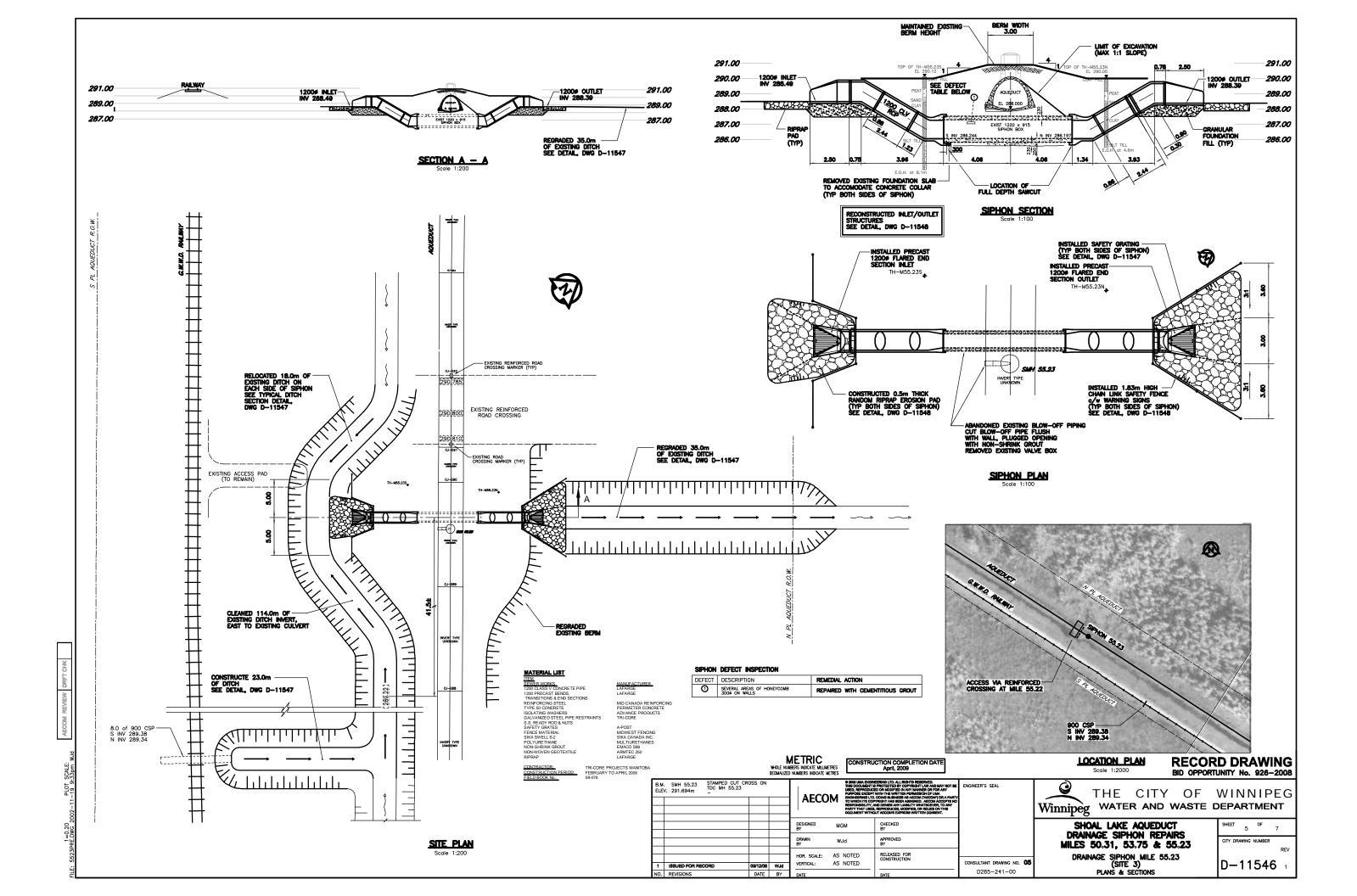
2-5-16

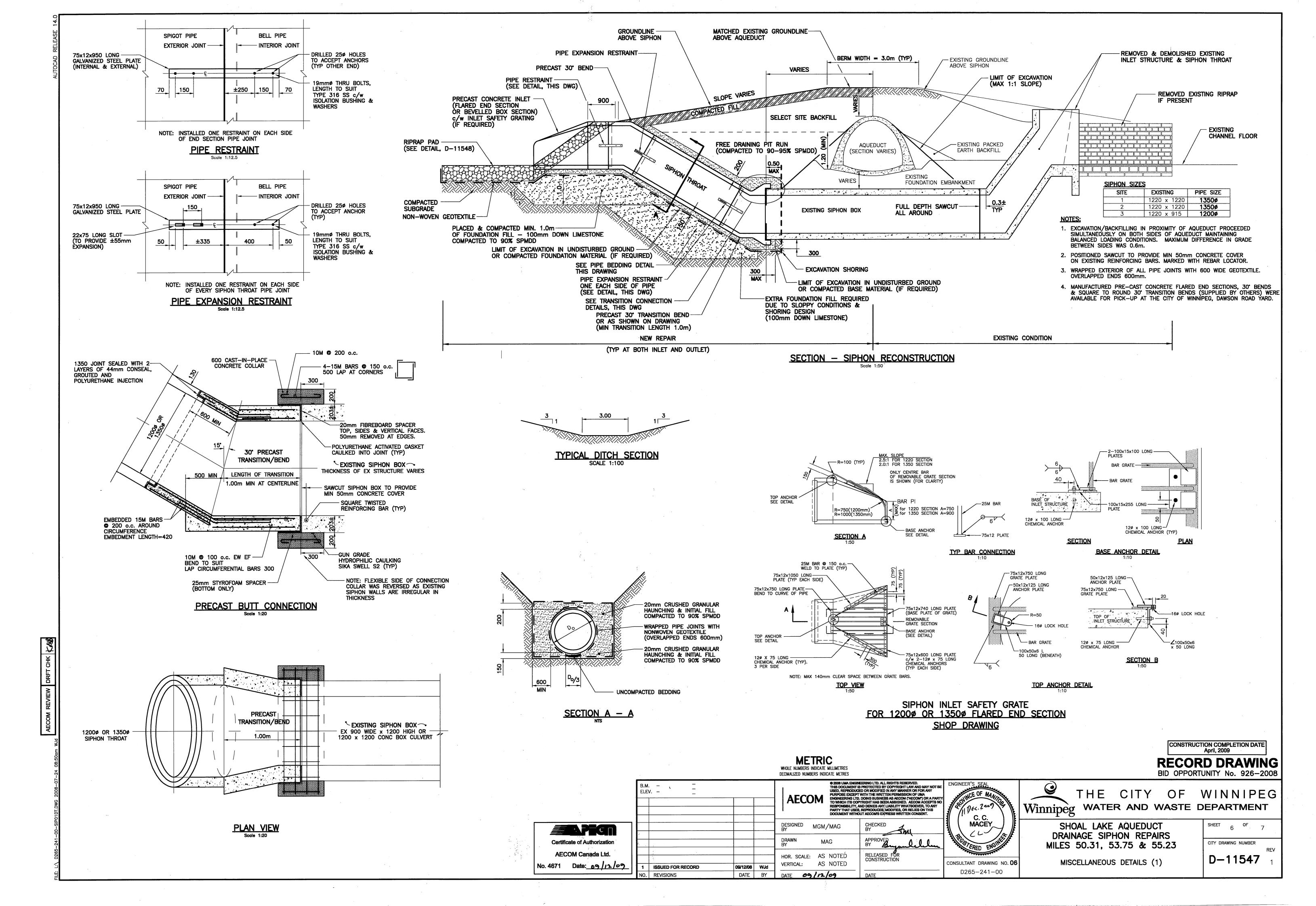
Scale 1



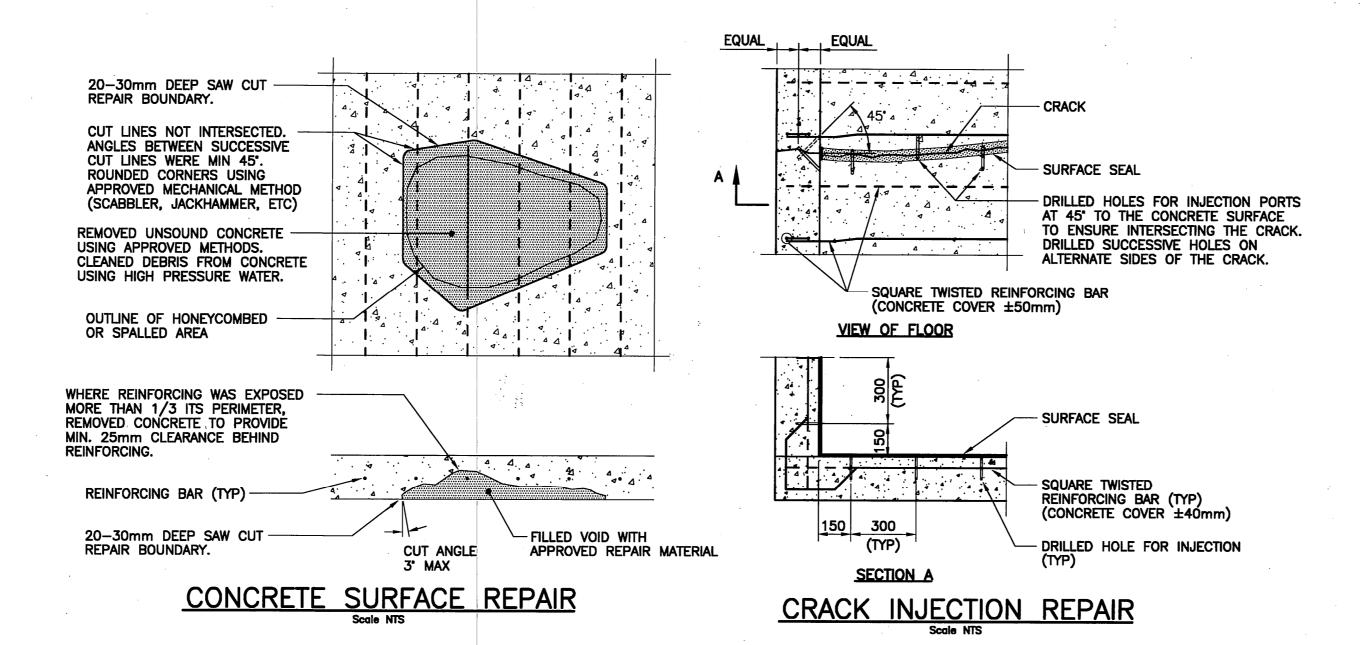


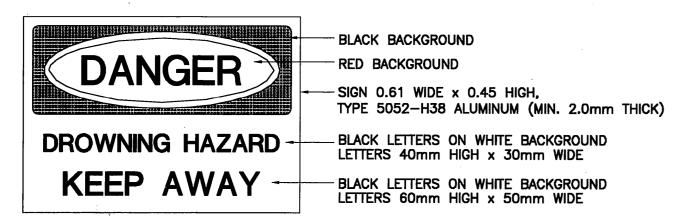






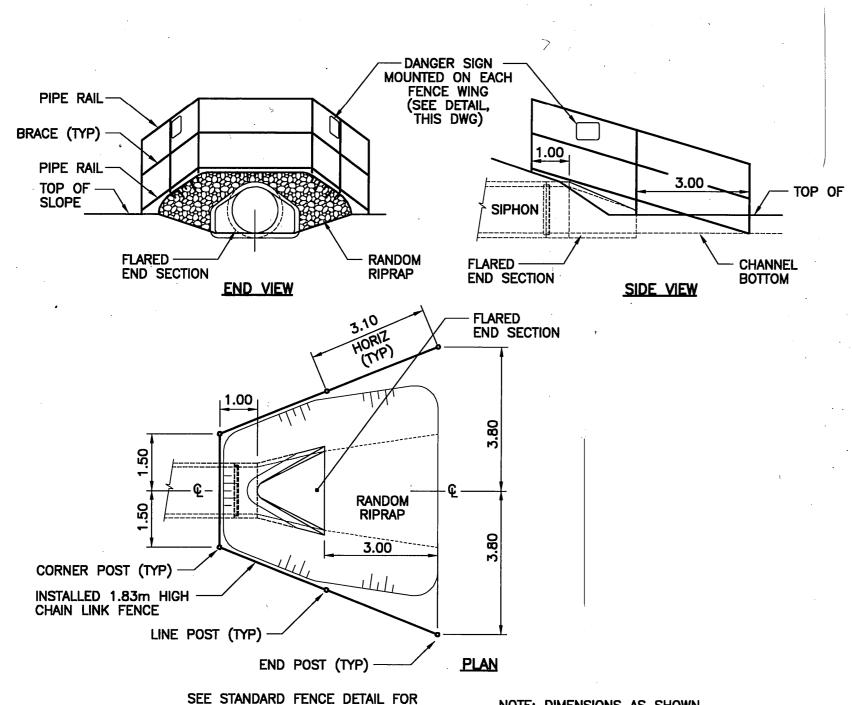






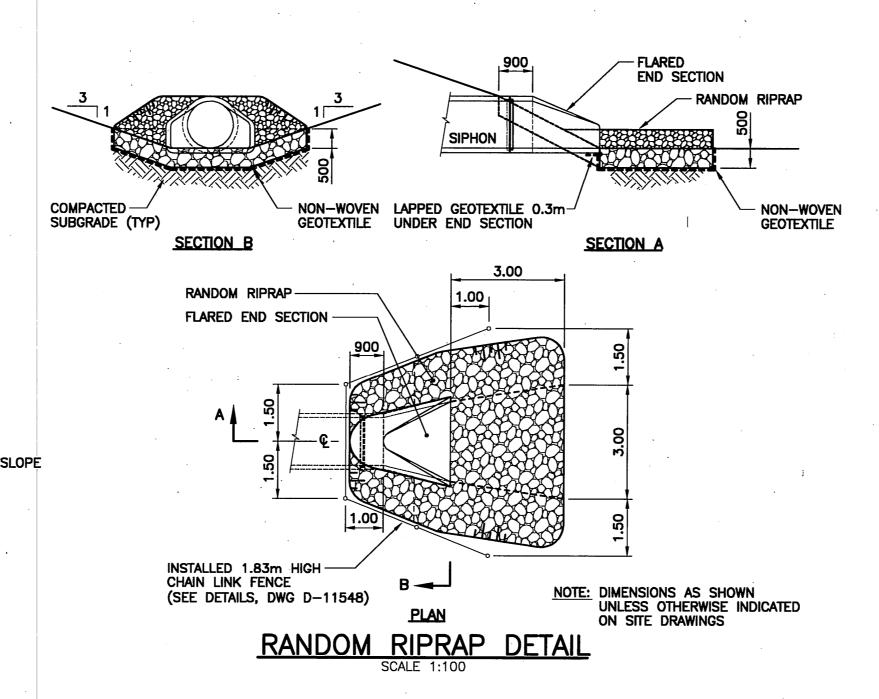
NOTE: WHITE BACKGROUND IS TYPE III RETROREFLECTIVE SHEETING.

## SIPHON INLET WARNING SIGN

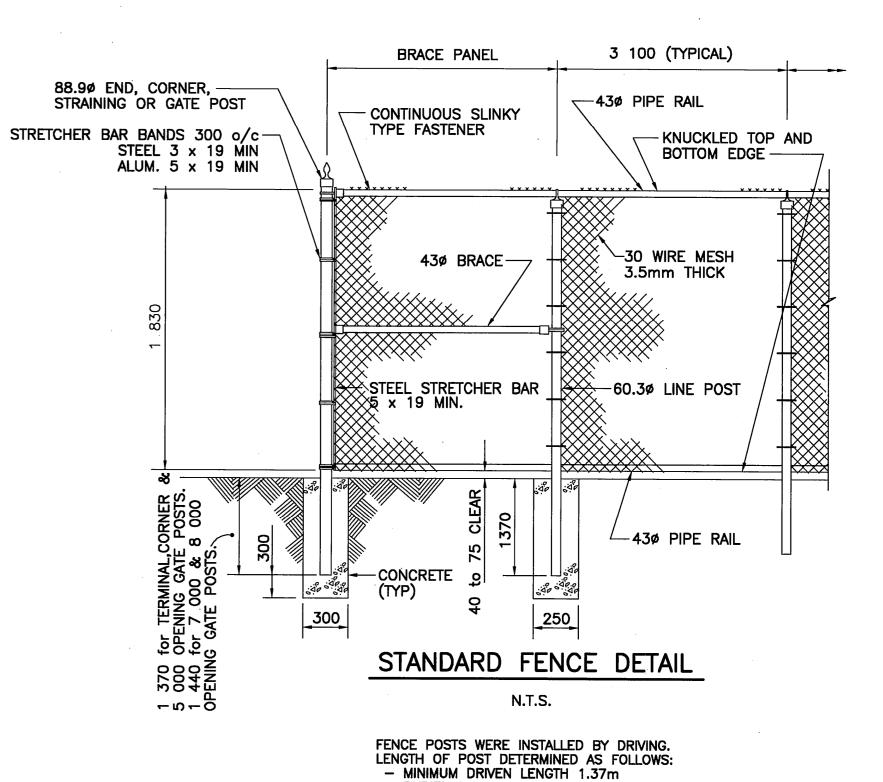


FENCING, POST AND PILE MATERIAL INFORMATION SIPHON FENCING DETAIL

DIMENSIONS AS SHOWN UNLESS OTHERWISE INDICATED ON SITE DRAWINGS



NO. REVISIONS





DECIMALIZED NUMBERS INDICATE METRES

09/12/09

CONSTRUCTION COMPLETION DATE April, 2009

AROUND POST

RECORD DRAWING

BID OPPORTUNITY No. 926-2008

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DATE

SHOAL LAKE AQUEDUCT

BURIED LENGTH TO BE MIN 600mm INTO UNDISTURBED GROUND

- WHERE POSTS ARE FOUNDED IN UNSUITABLE MATERIAL SUCH AS PEAT, MIN BURIED LENGTH

IS 600mm INTO SOUND MATERIAL. UNSUITABLE

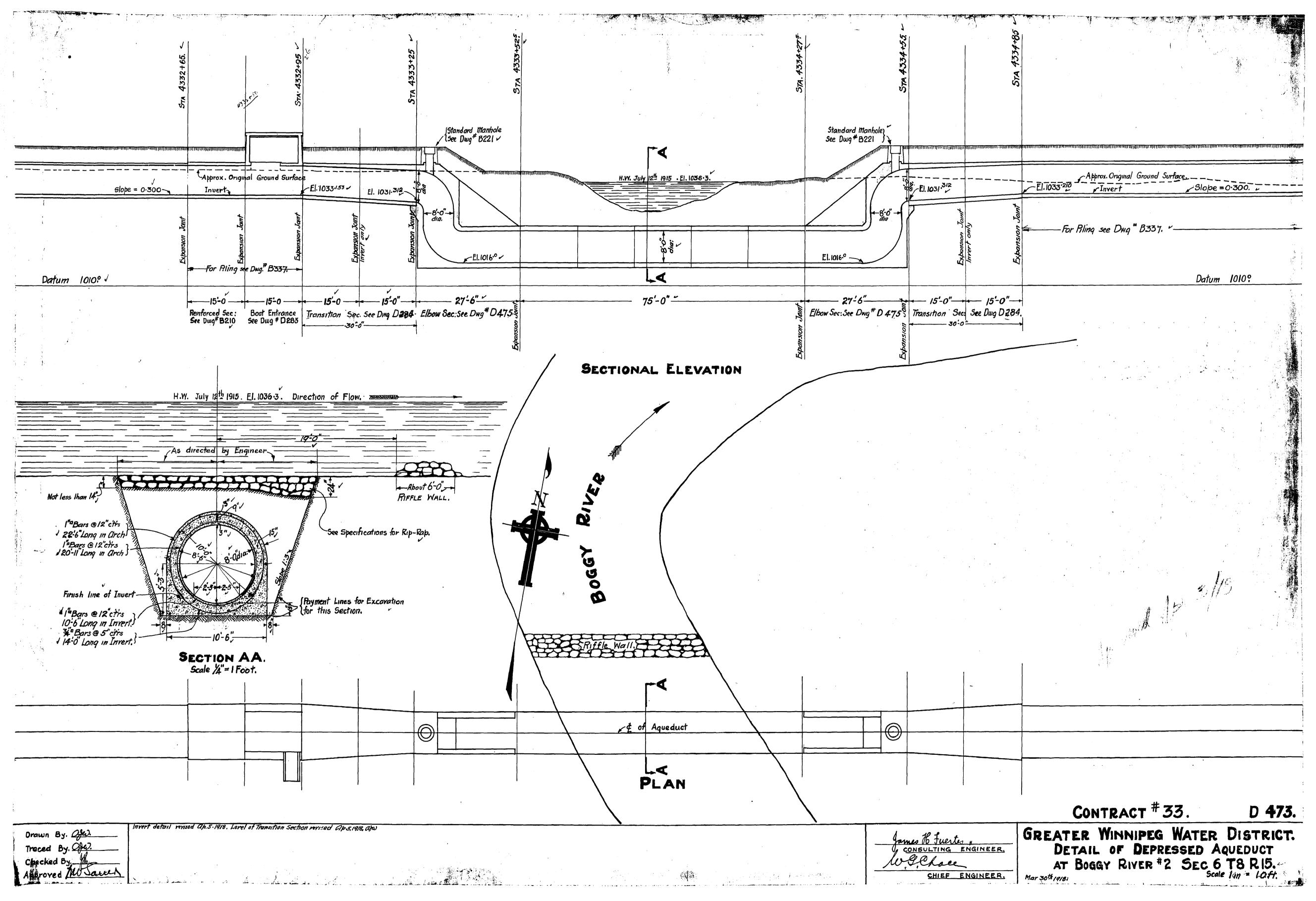
GRANULAR MATERIAL TO MIN 600mm IN DIAMETER

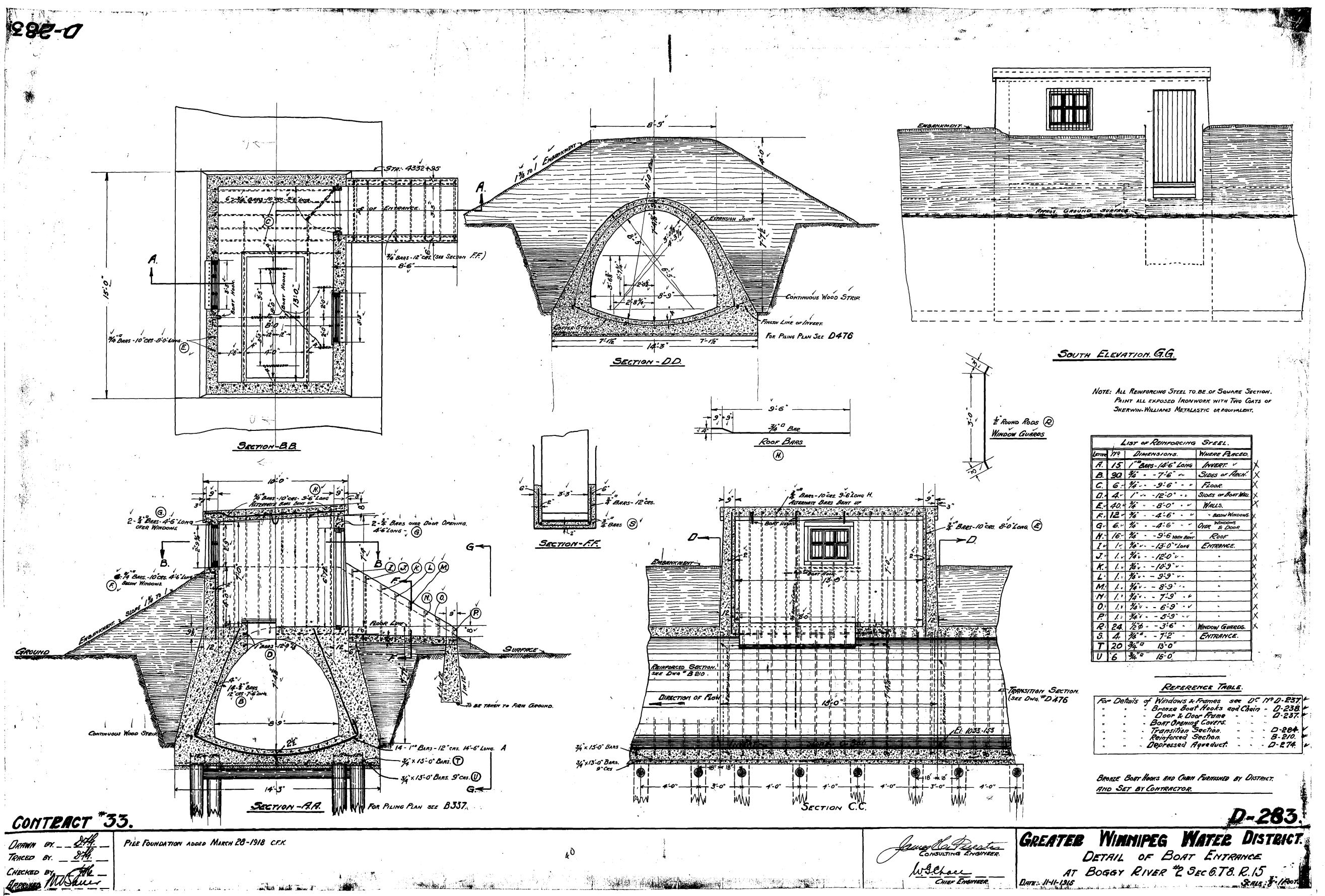
MATERIAL WAS REMOVED & REPLACED WITH COMPACTED

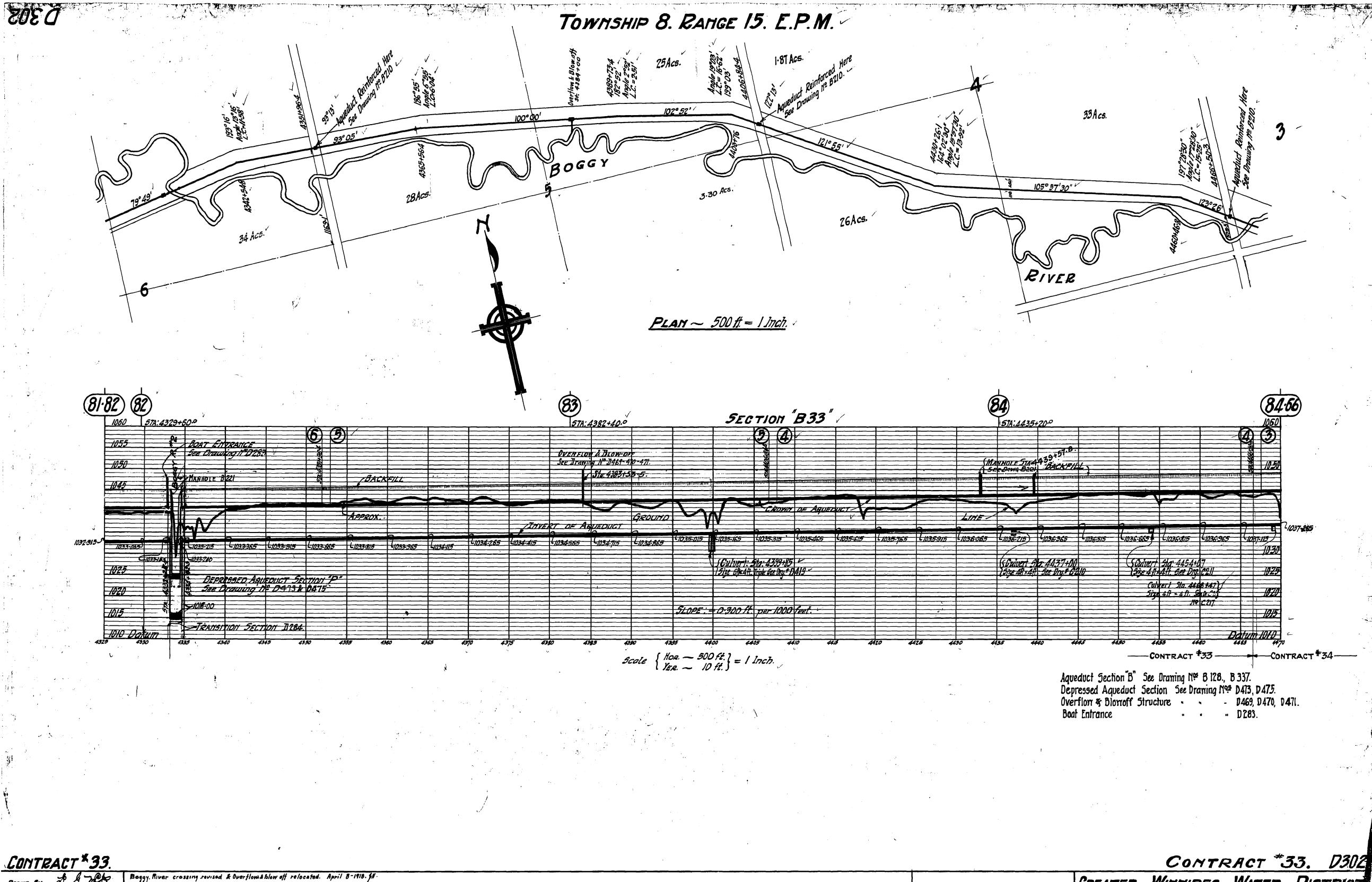
DRAINAGE SIPHON REPAIRS MILES 50.31, 53.75 & 55.23 SHEET 7 OF CITY DRAWING NUMBER D-11548

CONSULTANT DRAWING NO. 07 D265-241-00

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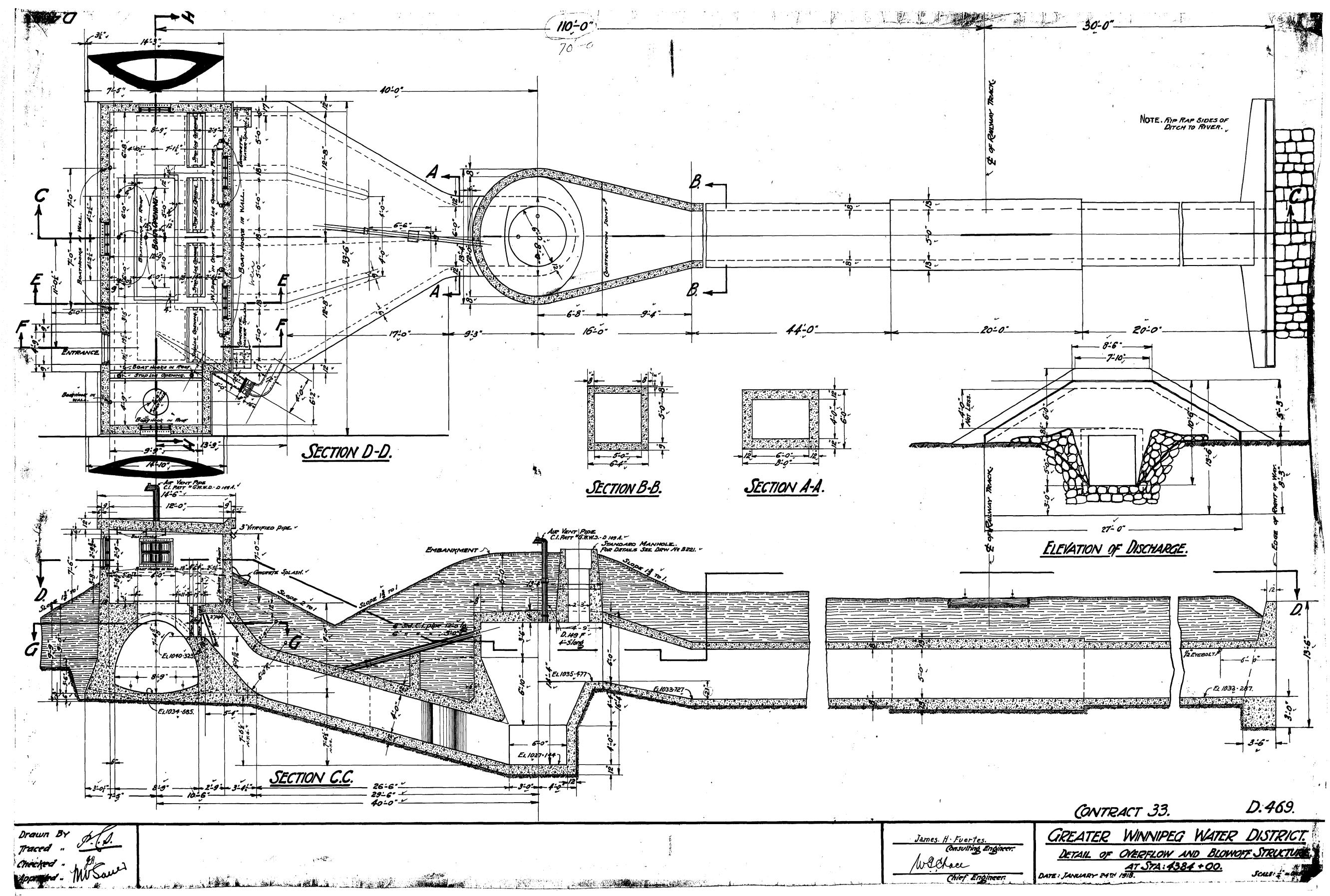


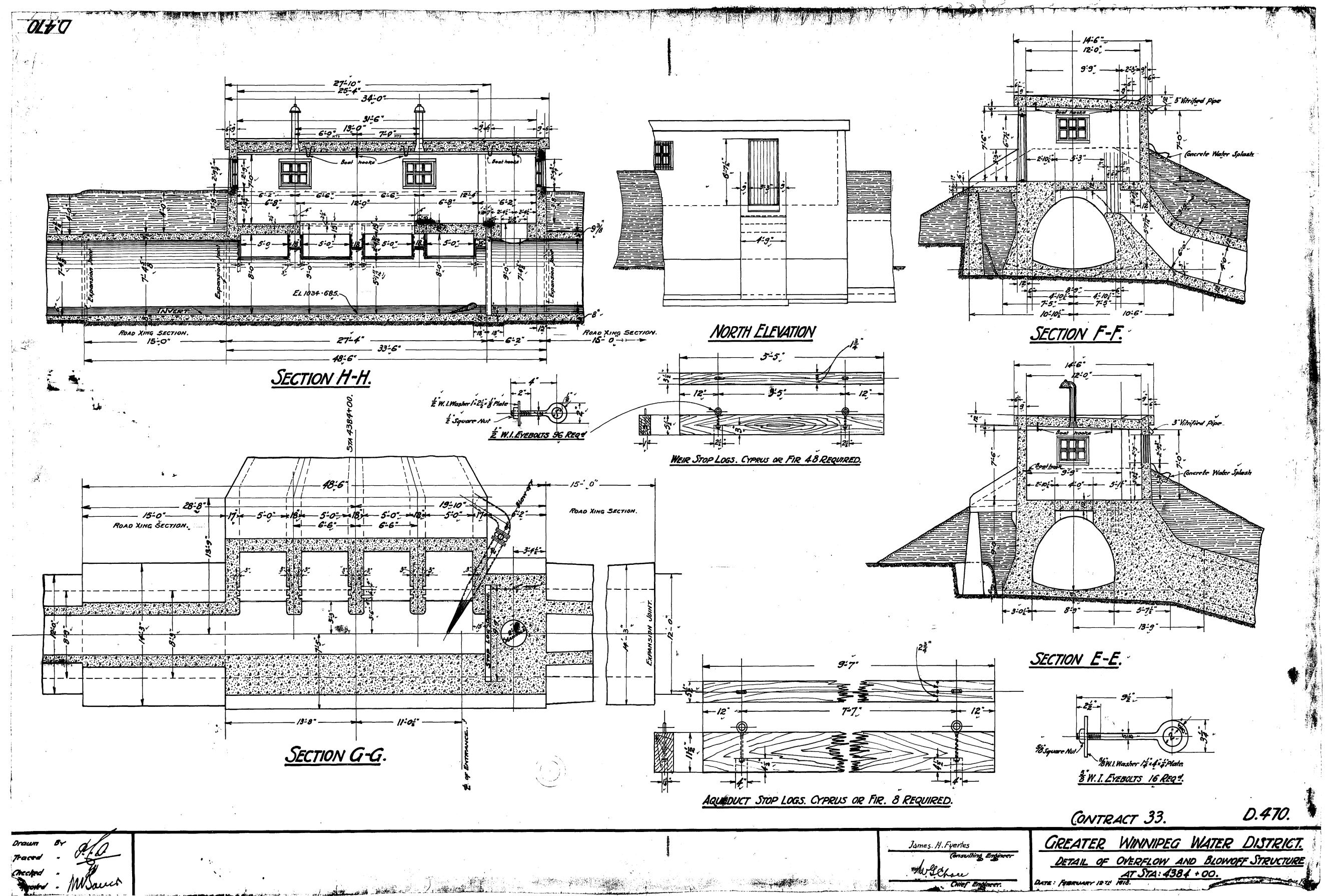
GREATER WITHIPEG WATER DISTRICT

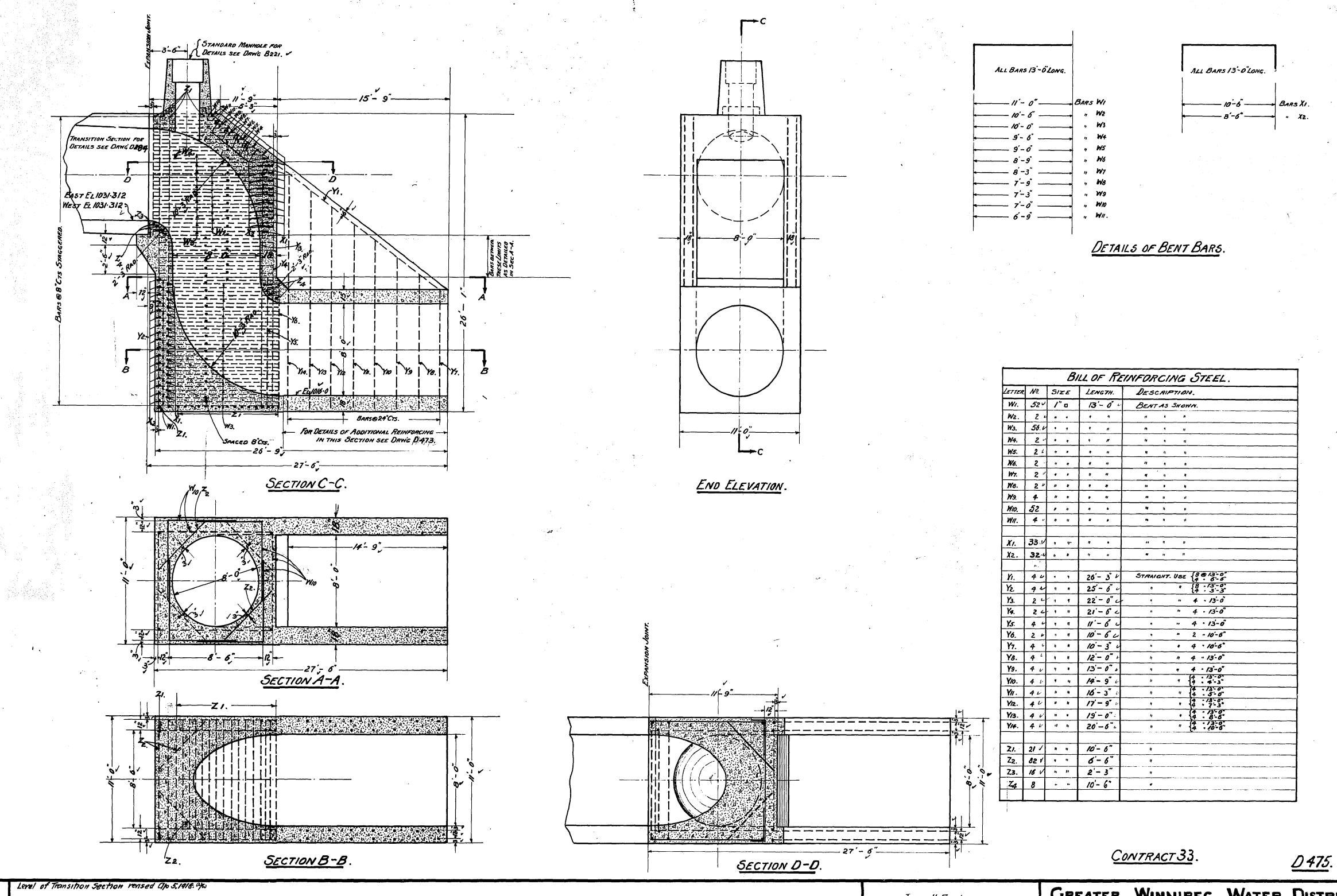
Aqueduct Plan & Profile Mile 81.82 to Mile 84.66.

James H. Fuertes

Wischou



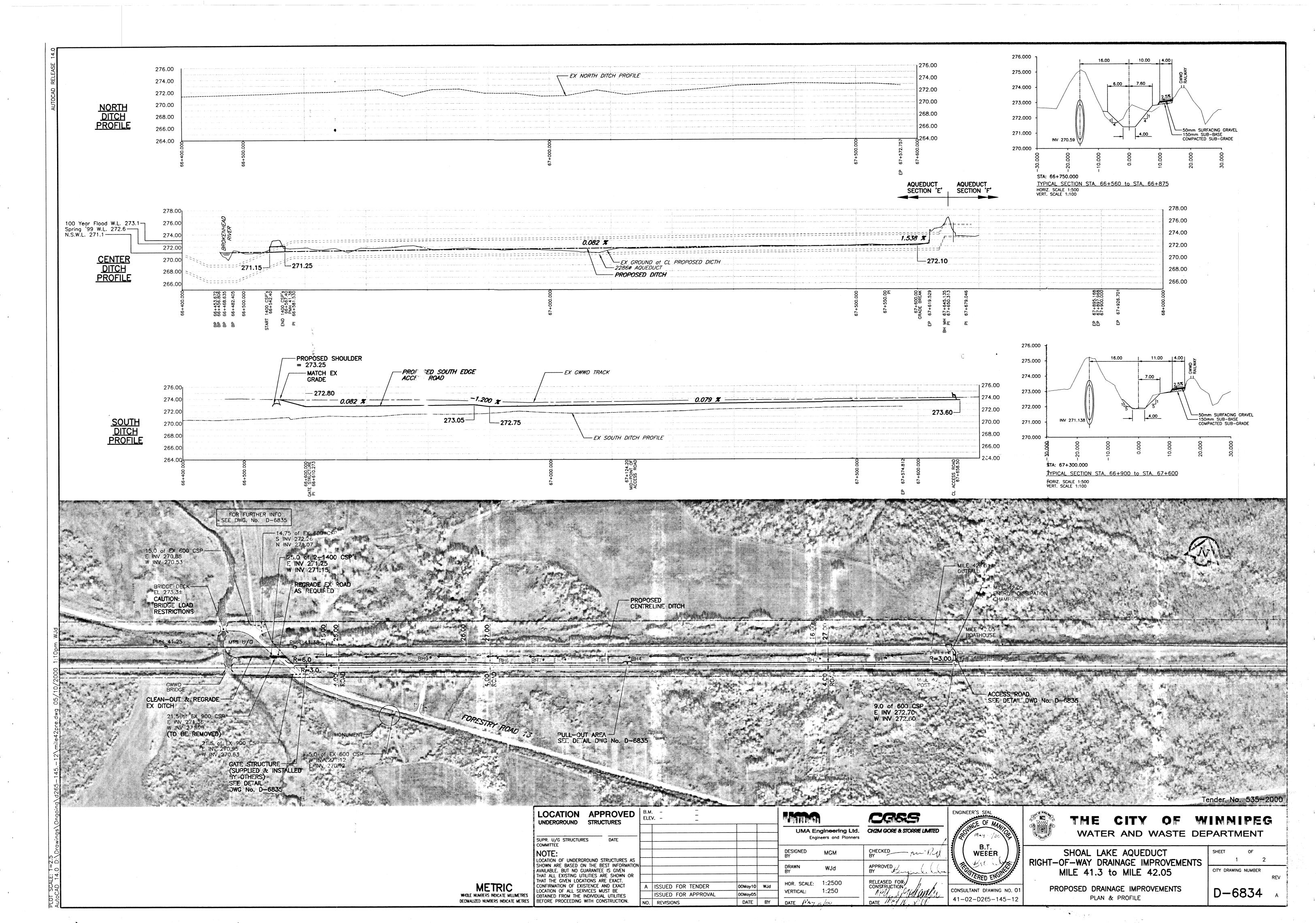


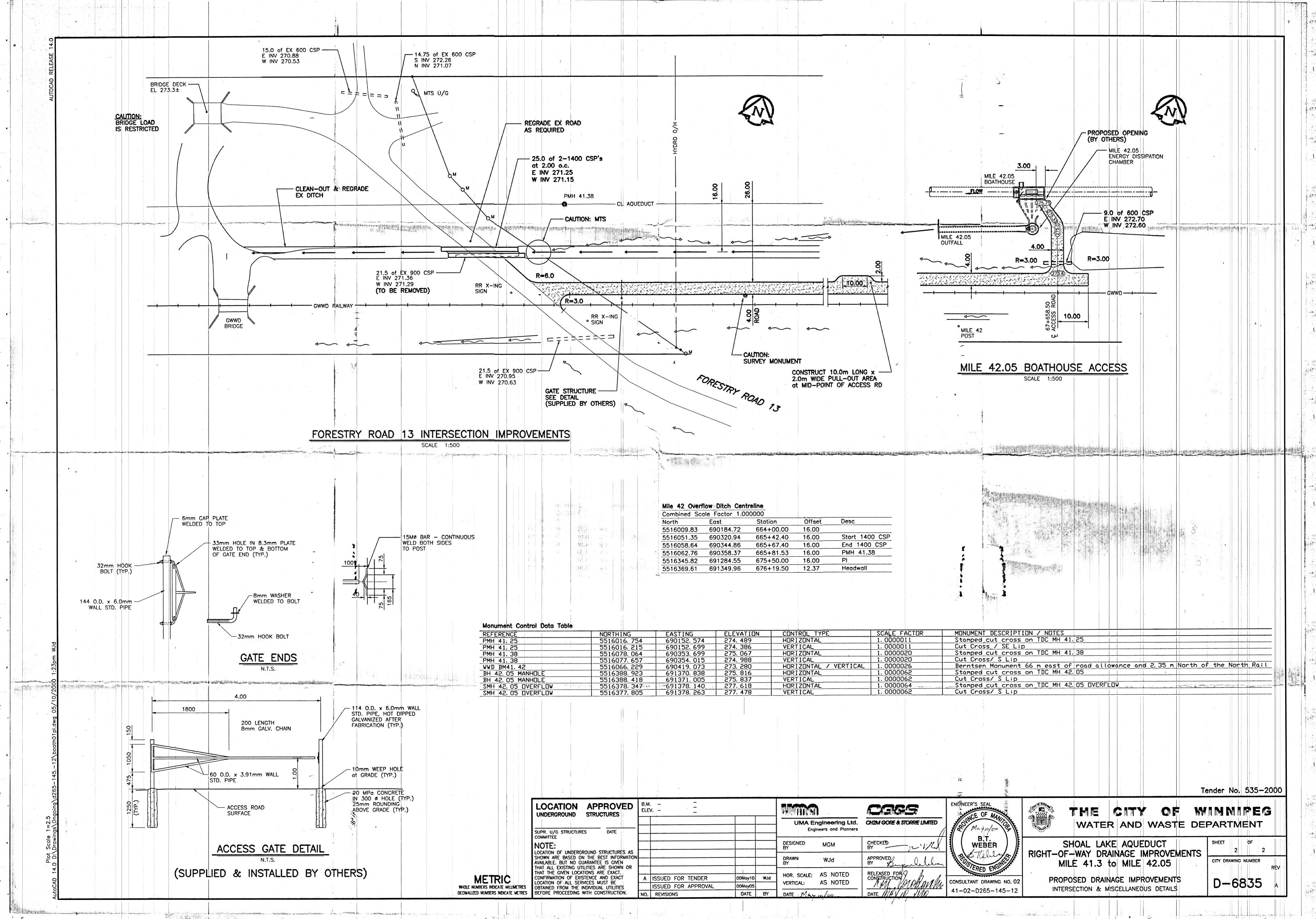


DRAWN BY. W. TRACED BY. R.S. CHECKED BY. , H.

James. H. Fuertes. Consulting Engineer. Wychael ENGINEER. GREATER WINNIPEG WATER DISTRICT.

BOGGY RIVER CROSSING Nº 2. DETAILS OF RISERS FOR DEPRESSED SECTION. SCALE \$IN = IFT. MAR304 1918.





CONTRACT Nº32

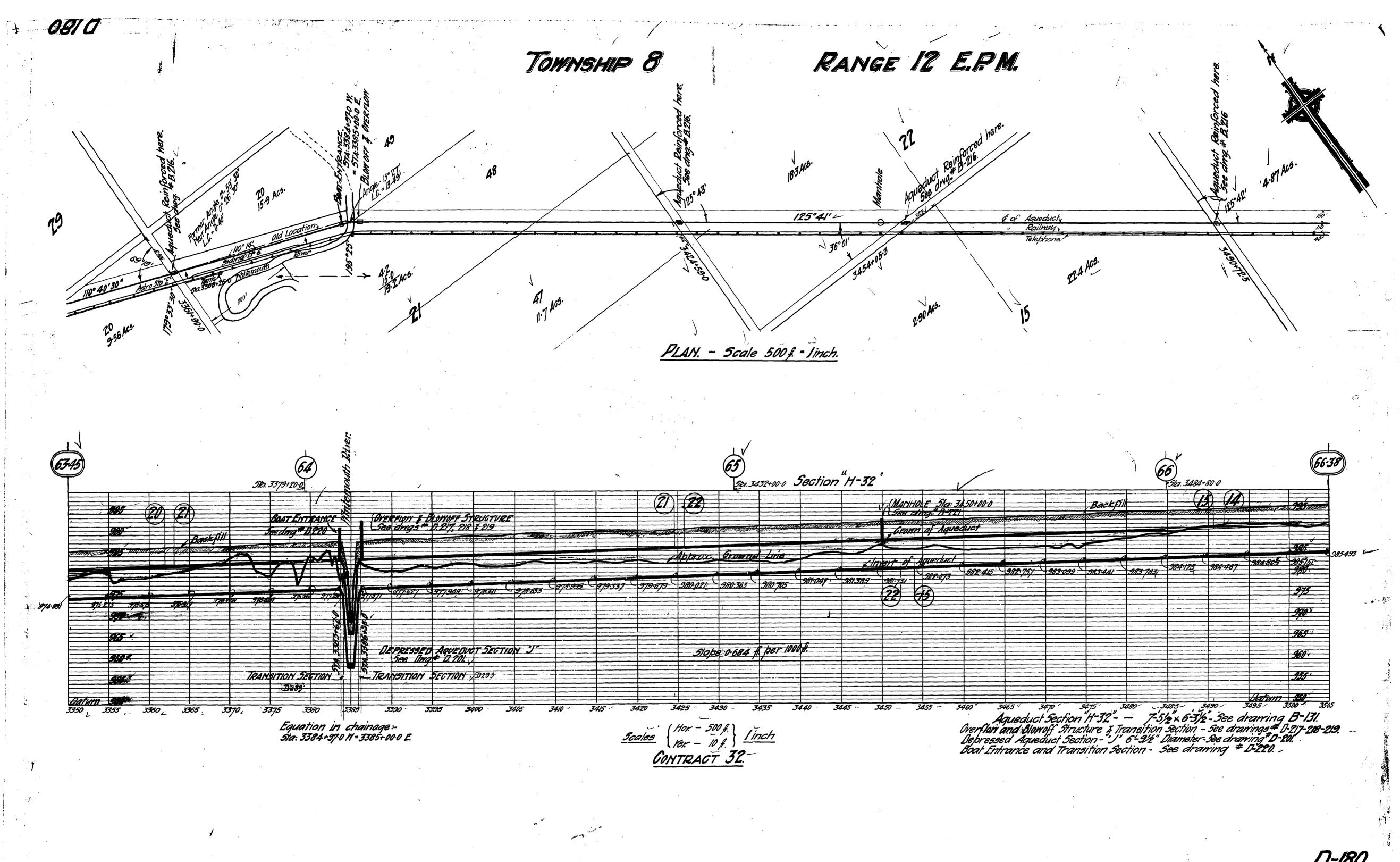
SECTION. AA

CONSULTING ENGINEER. Wichau CHIEF ENGINEER. DATE: 13-5-1915.

GREATER WINNIPEG WATER DISTRICT. DETAIL OF BOAT ENTRANCE AT WHITEMOUTH RIVER CROSSING

D:220.

SCALE - 5 - 1 FOOT



CONTRACT Nº 32.

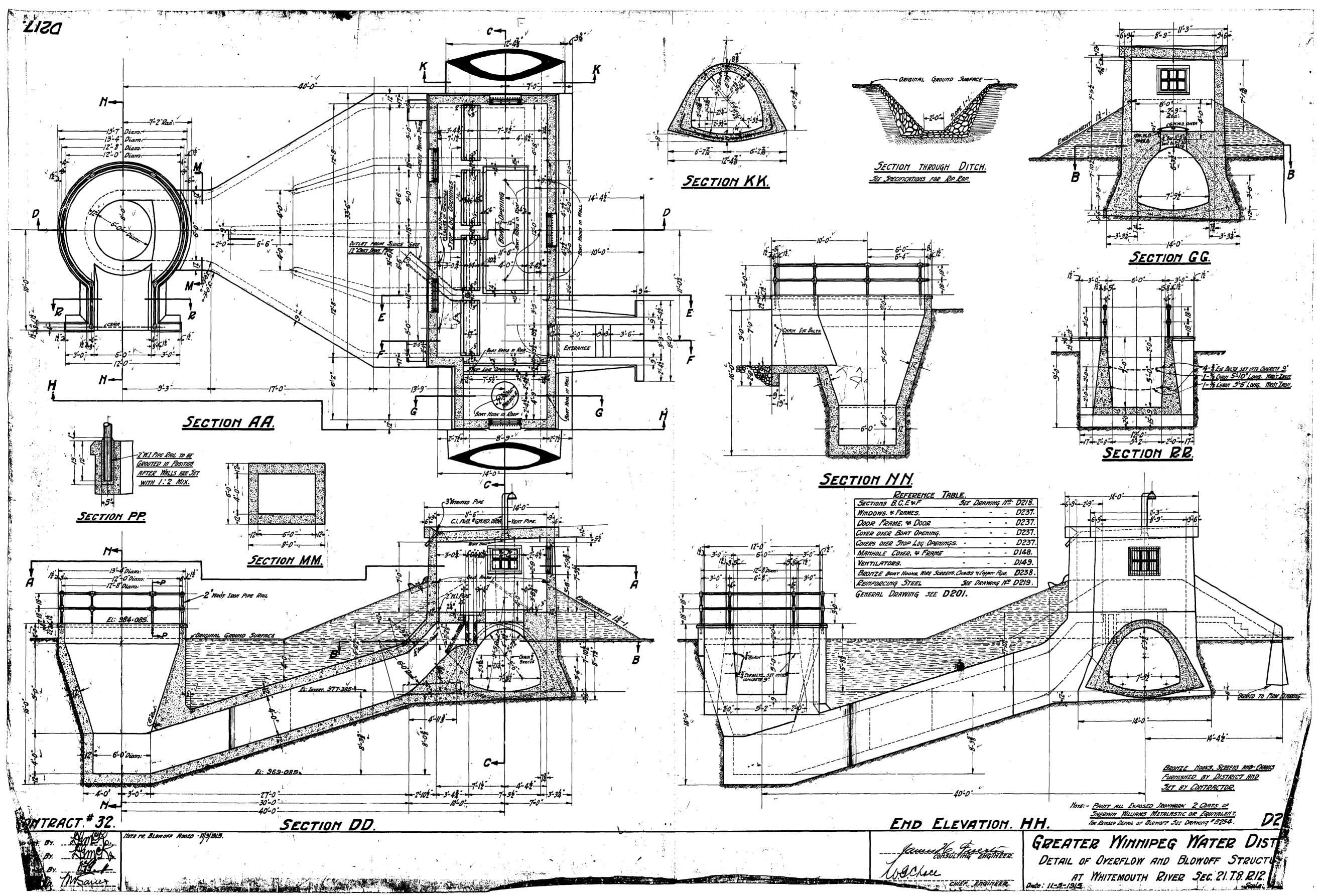
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Chacked by 8:49

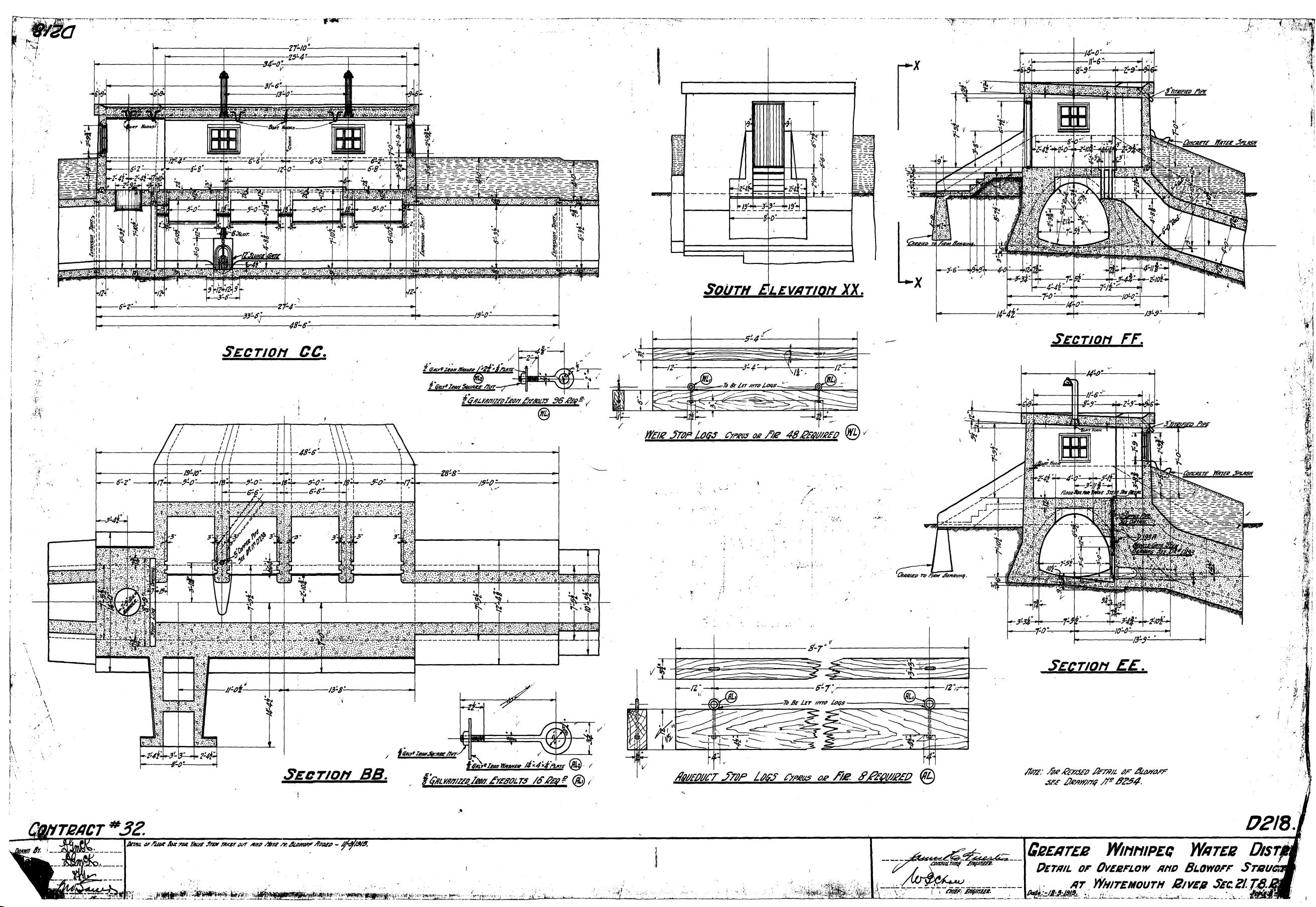
March 18/1917 Boat Entrance Station changed to 3383+620 -298.

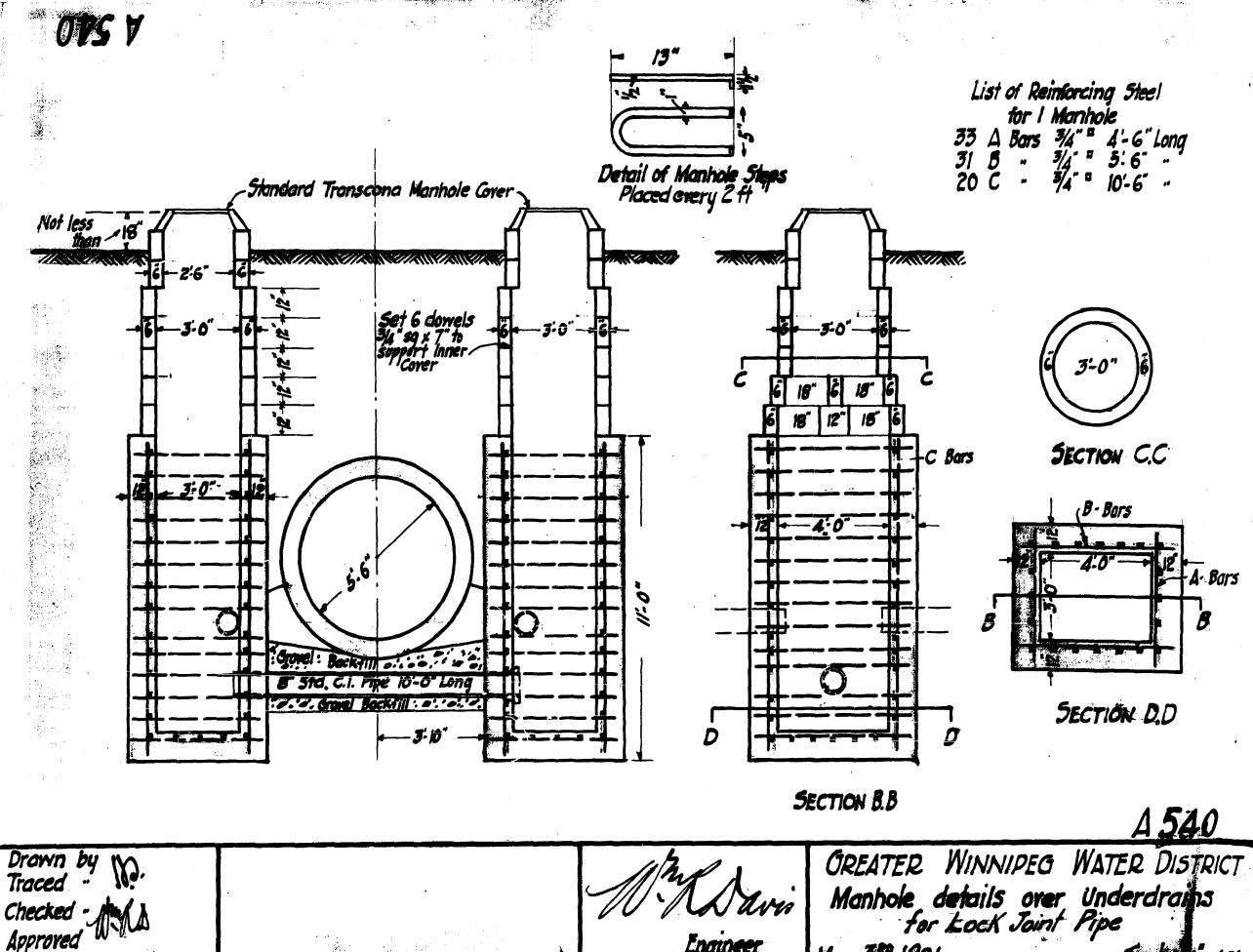
Hours J. Tuertes.

Gonsulting Engineer los chace Chief Engineer. GREATER WINNIPEG WATER DISTRICT
Aqueduct Plan and Profile.
Mile 63.45 to 66.88.

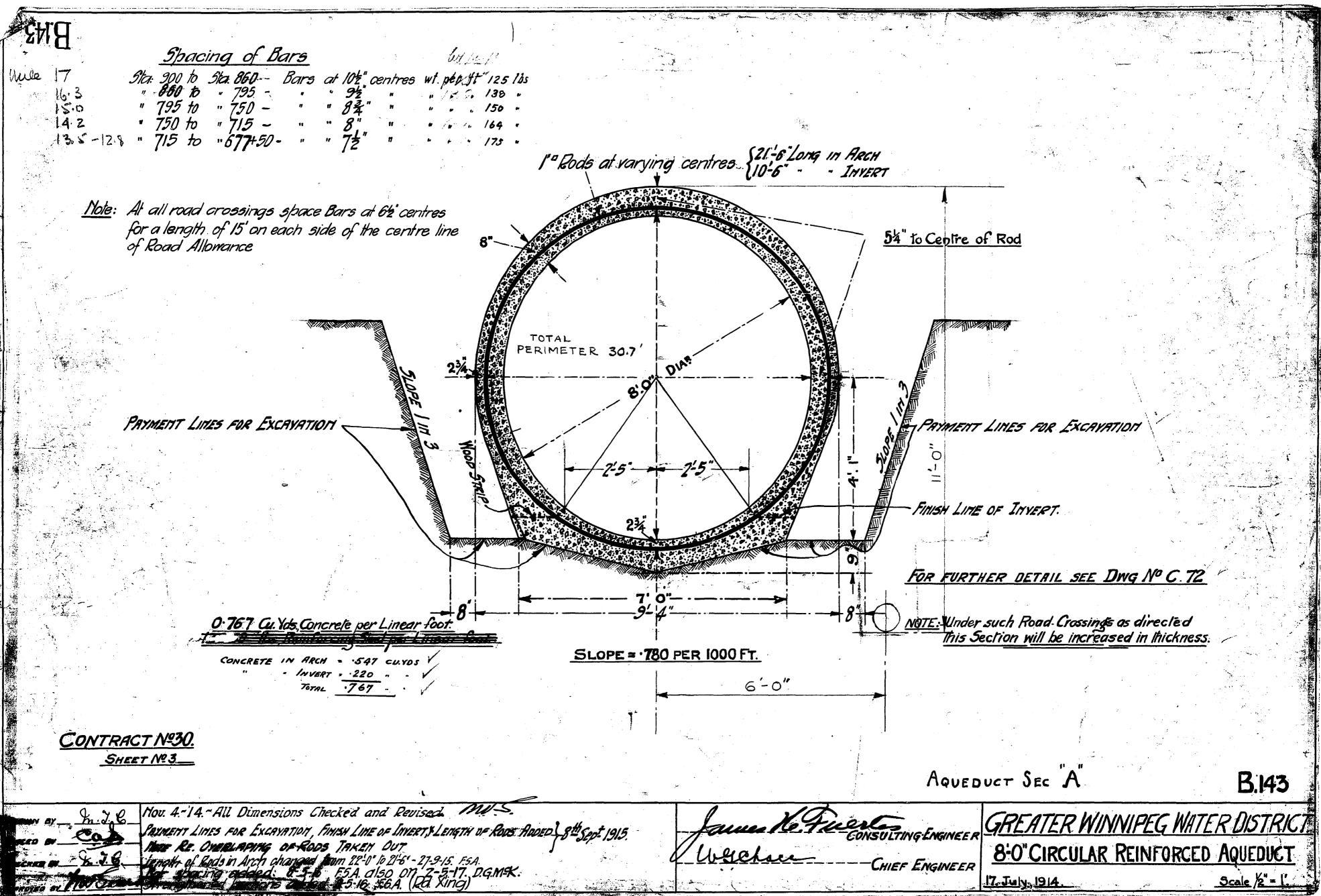
Scales as straint.



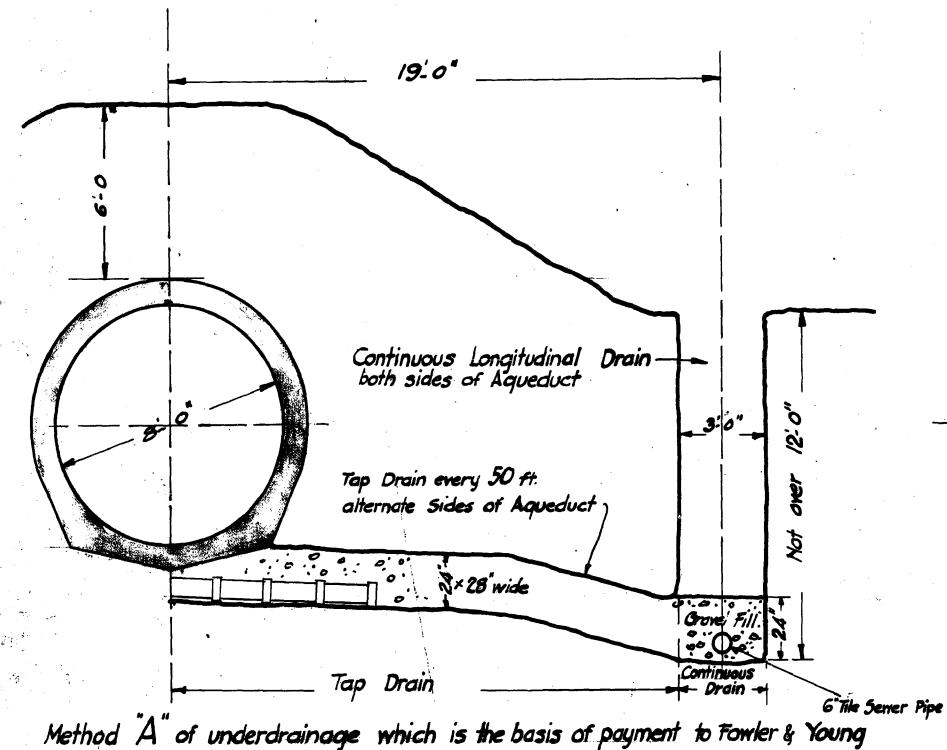




3º 1921 50-16":



Jel. 210000 Dele Ripe 19000



Original Ground Line

Borrow Ditch

Original Ground Line

Borrow Ditch

Original Ground Line

Borrow Ditch

Start Semer Apr

Proposed Method "C" of Underdraining South side of Aqueduct Section "A" between sta. 795+07 & 846+94 and both sides of Aqueduct between sta. 677+50 & 795+07 Estimated to cost \$60,000 = per Mile.

B.384

Drawn by S.
Traced by Checked by Approved W. M.

and estimated to cost \$26,000 = per Mile

Mind avis

Engineer.

GREATER WINNIPEG WATER DISTRICT
Comparison of Methods of Underdrainage
of Aqueduct Section A

Jan. 5. 1921

Scale 1/4 = 1 foot