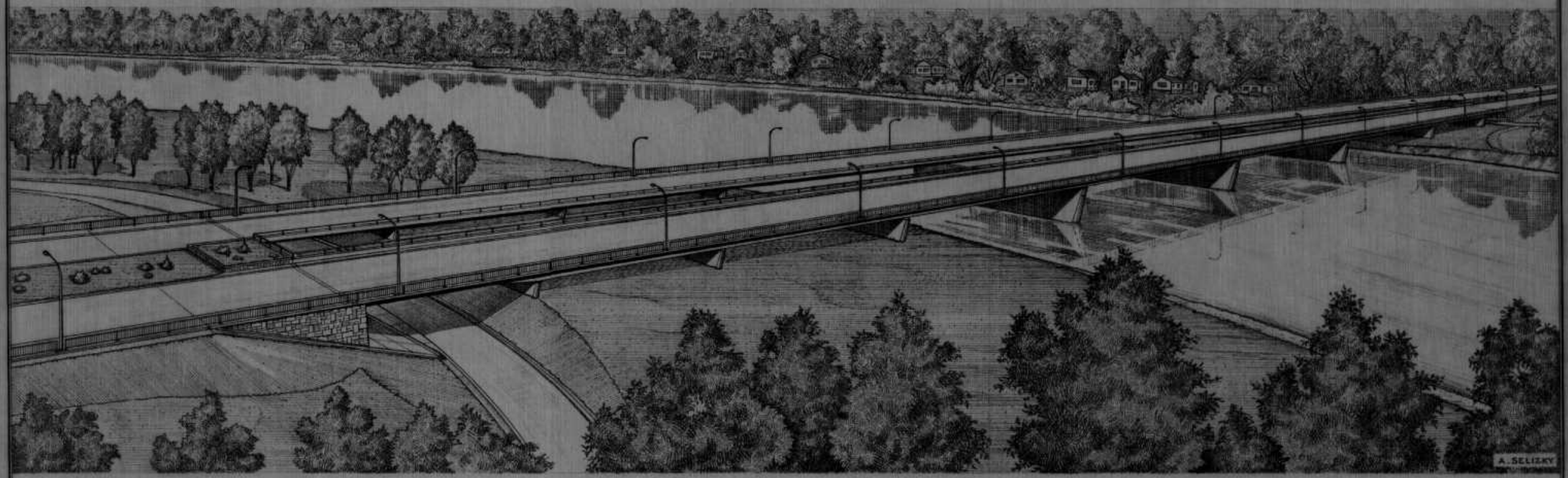
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG

STREETS AND TRANSIT DIVISION

ST. VITAL BRIDGE PROJECT



LIST OF DRAWINGS – SOUTH CONNECTING ROADWAYS

RS-1 PLAN OF INTERCHANGE & MAIN ROAD
RS-2 MAIN ROAD
RS-3 WEST INTERIOR LOOP
RS-4 WEST FRONTAGE ROAD
RS-5 EAST INTERIOR LOOP
RS-6 EAST FRONTAGE ROAD
RS-7 EAST & WEST BUS BAYS
RS-8 KINGSTON ROW DIVERSION
RS-9 PLAN OF MAIN ROAD & FERMOR AVE.
RS-10 MAIN ROAD - FROM INTERCHANGE TO FERMOR
RS-11 MAIN ROAD - FROM FERMOR TO W. FERNWOOD
RS-12 FERMOR AVE. - FROM MAIN ROAD TO KILLARNEY
RS-13 SIDEWALKS, SEWER SYSTEM & CONTOUR
RS-14 SPRINKLER SYSTEM & PAVEMENT JOINTS
RS-15 SPRINKLER SYSTEM & PAVEMENT JOINTS
RS-16 SPRINKLER SYSTEM & PAVEMENT JOINTS
RS-17 STANDARD DETAILS
RS-18 STANDARD DETAILS
RS-19 WATERMAIN RELOCATION
RS-20 TYPICAL CROSS SECTIONS
RS-21 SOUTH ABUTMENT - DETAILS
RS-22 SOUTH ABUTMENT - STAIRS
RS-23 PEDESTRIAN UNDERPASS - RET. WALLS
RS-24 PEDESTRIAN UNDERPASS - REINFORCING
RS-25 PEDESTRIAN UNDERPASS - DETAILS
RS-26 REINFORCING SCHEDULE
RS-27 BRIDGE PLAN & ELEVATION

APPROVED BY

DEPUTY MINISTER OF PUBLIC WORKS
PROVINCE OF MANITOBA

DEPUTY DIRECTOR OF STREETS & TRANSIT

FILE WITH
B-5015-304

T. LAMB Mc MANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
WINNIPEG

GENERAL NOTES

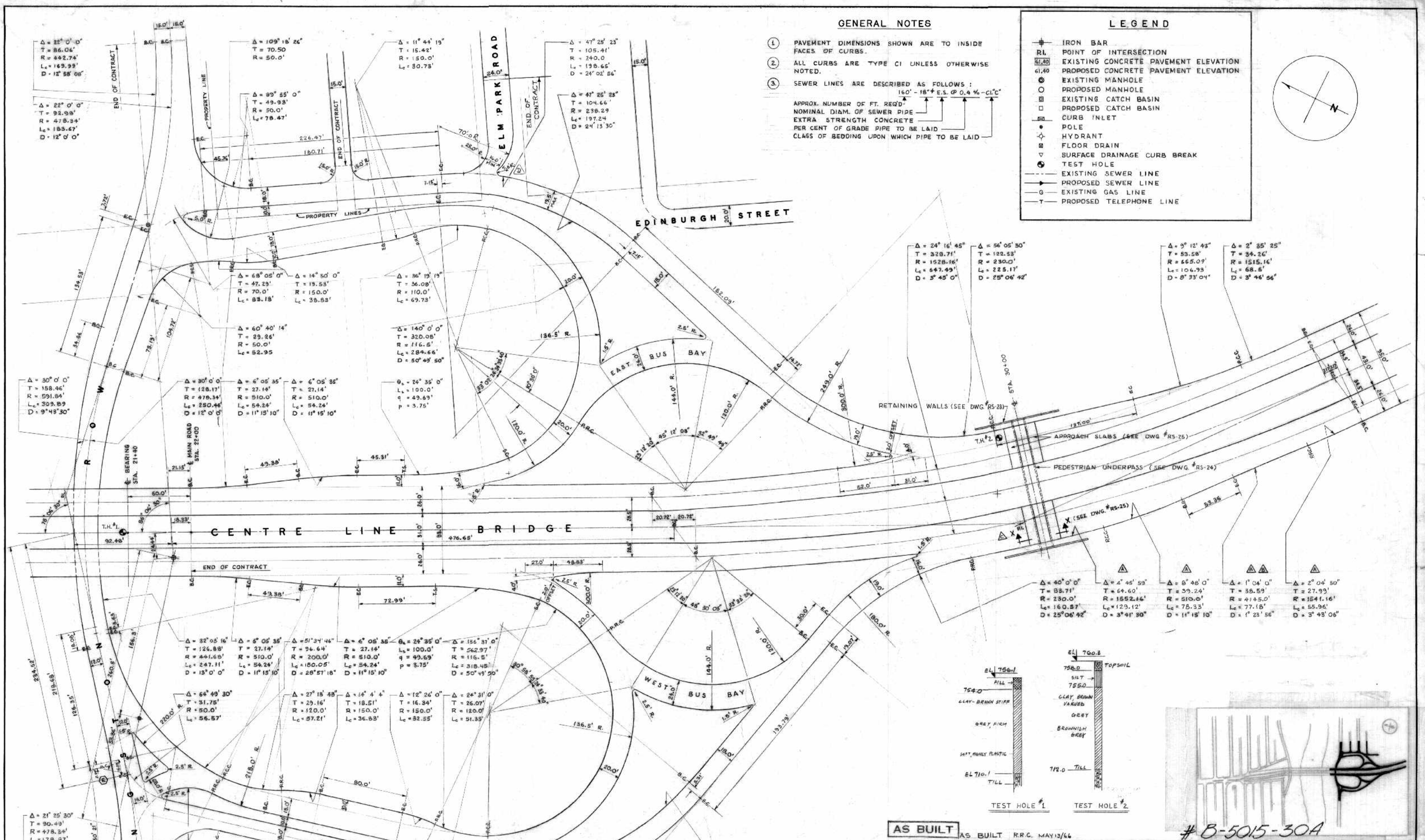
1. PAVEMENT DIMENSIONS SHOWN ARE TO INSIDE FACES OF CURBS.
2. ALL CURBS ARE TYPE CI UNLESS OTHERWISE NOTED.
3. SEWER LINES ARE DESCRIBED AS FOLLOWS :

160' - 18"ϕ E.S. @ 0.4 % - Cl."C"

- 160' — APPROX. NUMBER OF FT. REQ'D
- 18" — NOMINAL DIAM. OF SEWER PIPE
- E.S. — EXTRA STRENGTH CONCRETE
- 0.4 % — PER CENT OF GRADE PIPE TO BE LAID
- Cl."C" — CLASS OF BEDDING UPON WHICH PIPE TO BE LAID

LEGEND

- IRON BAR
- P.I. — POINT OF INTERSECTION
- 61.40 — EXISTING CONCRETE PAVEMENT ELEVATION
- 61.40 — PROPOSED CONCRETE PAVEMENT ELEVATION
- EXISTING MANHOLE
- PROPOSED MANHOLE
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN
- CURB INLET
- POLE
- HYDRANT
- FLOOR DRAIN
- SURFACE DRAINAGE CURB BREAK
- TEST HOLE
- EXISTING SEWER LINE
- PROPOSED SEWER LINE
- G — EXISTING GAS LINE
- T — PROPOSED TELEPHONE LINE



NO.	DATE	BY	DESCRIPTION
E	13 MAY 66	R.R.C.	B.C. & E.C. KINGSTON ROW
D	15 OCT 65	G.S.	ELM PARK ROAD INTERSECTION REVISED
C	14 JUN 65	J.D.H.	SECTION X-X ADDED
B	7 JUN 65	J.D.H.	WEST FRONTAGE ROAD REVISED
A	15 MAY 65	J.D.H.	WEST FRONTAGE ROAD REVISED

REVISIONS

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

ST. VITAL BRIDGE PROJECT

PLAN OF INTERCHANGE & MAIN ROAD AT SOUTH END OF BRIDGE

T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

FILE No.	W-1008
DATE	FEB. 1965
SCALE	1" = 40'
DWN. BY	J.D.H.
CHKD. BY	D.W.B.
DWG. No.	RS-1

GENERAL NOTES

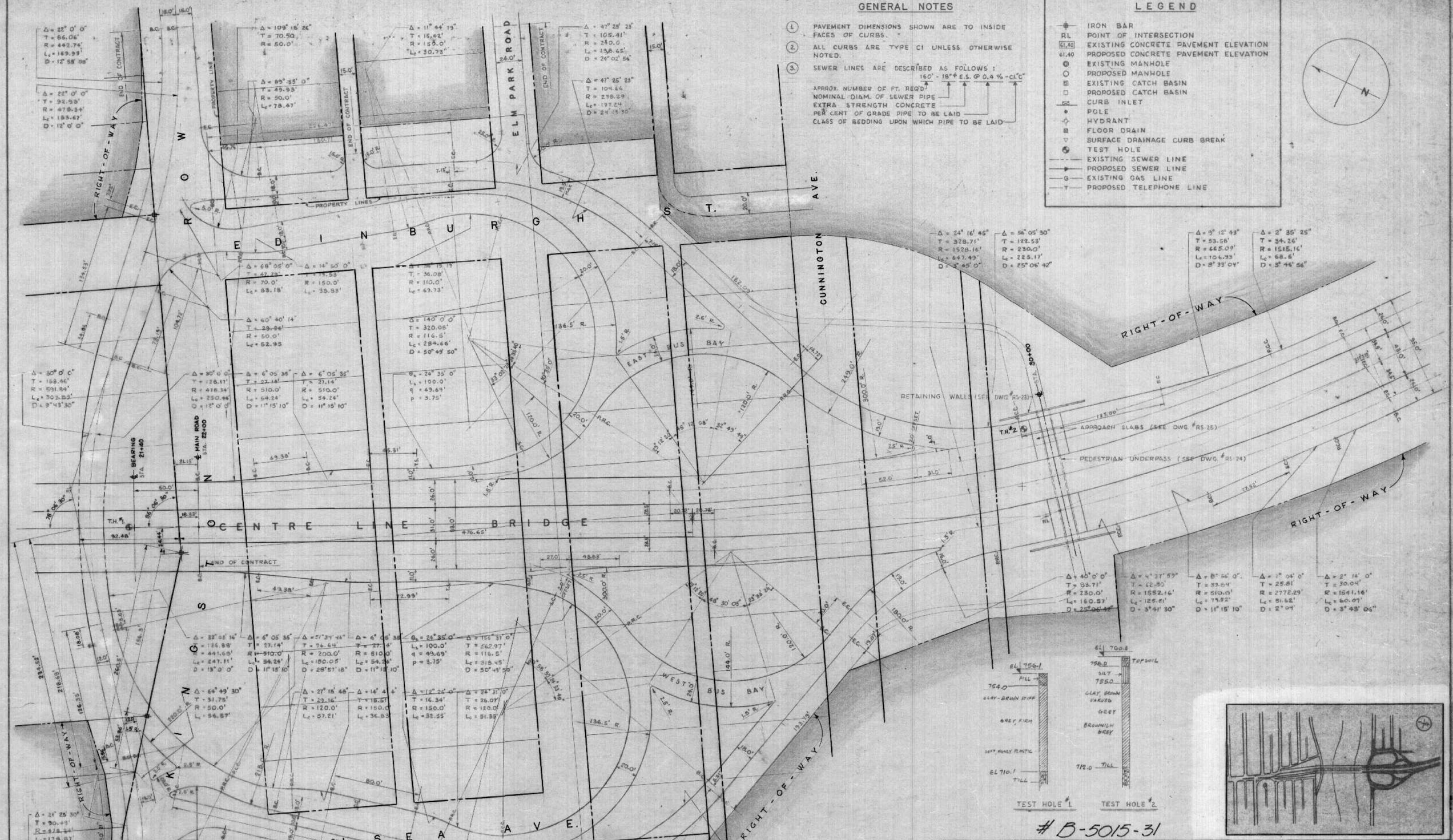
1. PAVEMENT DIMENSIONS SHOWN ARE TO INSIDE FACES OF CURBS.
2. ALL CURBS ARE TYPE CI UNLESS OTHERWISE NOTED.
3. SEWER LINES ARE DESCRIBED AS FOLLOWS :

160' - 18"ϕ E.S. @ 0.4 % - CL"C"

- APPROX. NUMBER OF FT. REQ'D
- NOMINAL DIAM. OF SEWER PIPE
- EXTRA STRENGTH CONCRETE
- PER CENT OF GRADE PIPE TO BE LAID
- CLASS OF BEDDING UPON WHICH PIPE TO BE LAID

LEGEND

- IRON BAR
- R.I. POINT OF INTERSECTION
- 61.40 EXISTING CONCRETE PAVEMENT ELEVATION
- 61.40 PROPOSED CONCRETE PAVEMENT ELEVATION
- EXISTING MANHOLE
- PROPOSED MANHOLE
- EXISTING CATCH BASIN
- PROPOSED CATCH BASIN
- CURB INLET
- POLE
- HYDRANT
- FLOOR DRAIN
- SURFACE DRAINAGE CURB BREAK
- TEST HOLE
- EXISTING SEWER LINE
- PROPOSED SEWER LINE
- G EXISTING GAS LINE
- T PROPOSED TELEPHONE LINE



B-5015-31

DEPUTY MINISTER OF PUBLIC WORKS
PROVINCE OF MANITOBA

PROVINCE OF MANITOBA
R. SCHULTZ
REGISTERED ENGINEER

NO.	DATE	BY	DESCRIPTION

REVISIONS

APPROVED BY

DEPUTY DIRECTOR OF STREETS & TRANSIT

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

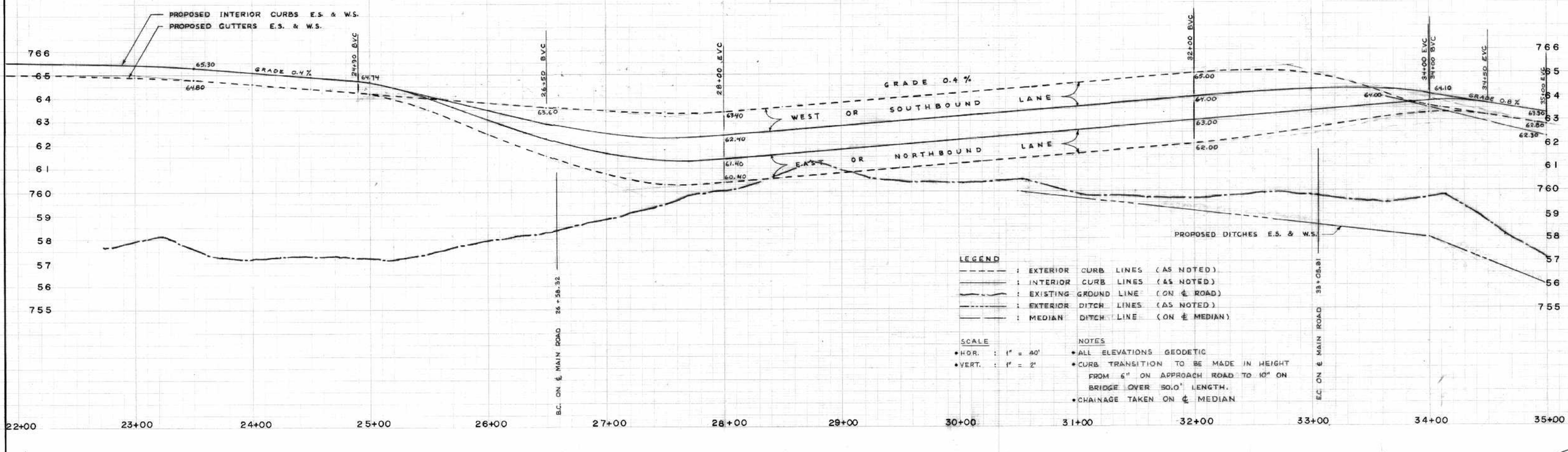
ST. VITAL BRIDGE PROJECT

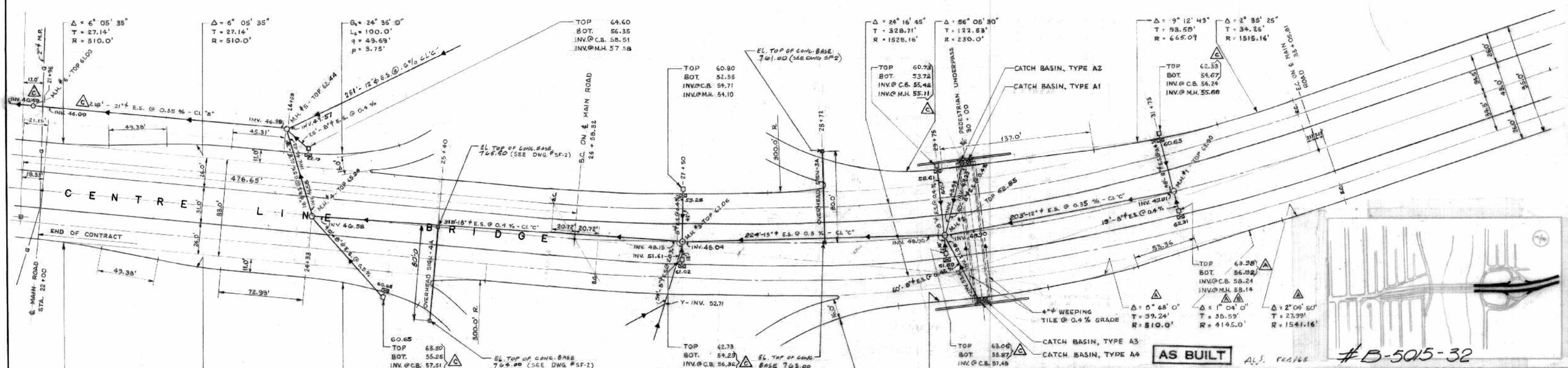
PROVINCE OF MANITOBA
D. A. SAMPSON
REGISTERED ENGINEER

PLAN OF INTERCHANGE & MAIN ROAD AT SOUTH END OF BRIDGE

T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

FILE No.	W-1006
DATE	FEB. 1965
SCALE	1" = 40'
DWN. BY	J.D.H.
CHKD. BY	D.W.B.
DWG. No.	RS-1A





NOTES

1. ALL 8"ϕ E.S. PIPE TO HAVE CLASS C BEDDING U/N.
2. FOR DETAILS OF CATCH BASINS, TYPE A1, A2, A3 & A4 SEE DRAWING #RS-25.

NO.	DATE	BY	DESCRIPTION
C	6 NOV 67	M.S.	AS BUILT REVISIONS AS SURVEYED OCTOBER 67
B	7 JUN 66	J.D.H.	WEST FRONTAGE ROAD REVISED
A	13 MAY 66	J.D.H.	WEST FRONTAGE ROAD REVISED

REVISIONS

APPROVED BY

DEPUTY DIRECTOR OF STREETS & TRANSIT

DEPUTY MINISTER OF PUBLIC WORKS PROVINCE OF MANITOBA

PROVINCE OF MANITOBA — S. SCHULTZ — REGISTERED ENGINEER

PROVINCE OF MANITOBA — D. J. SAMPSON — REGISTERED ENGINEER

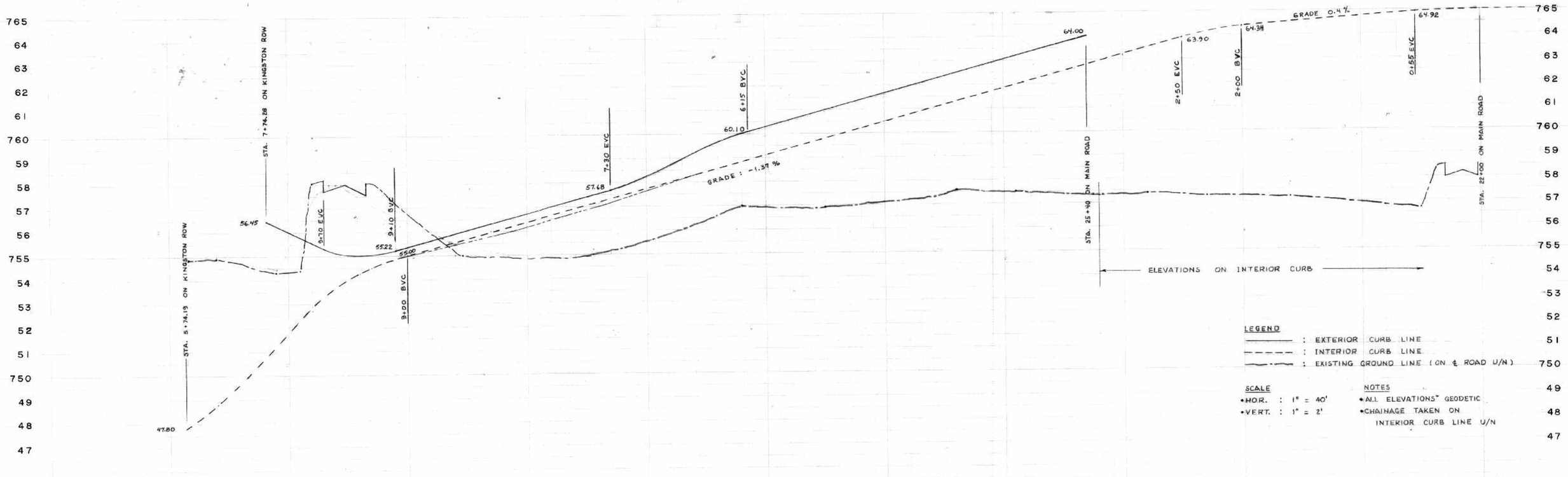
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

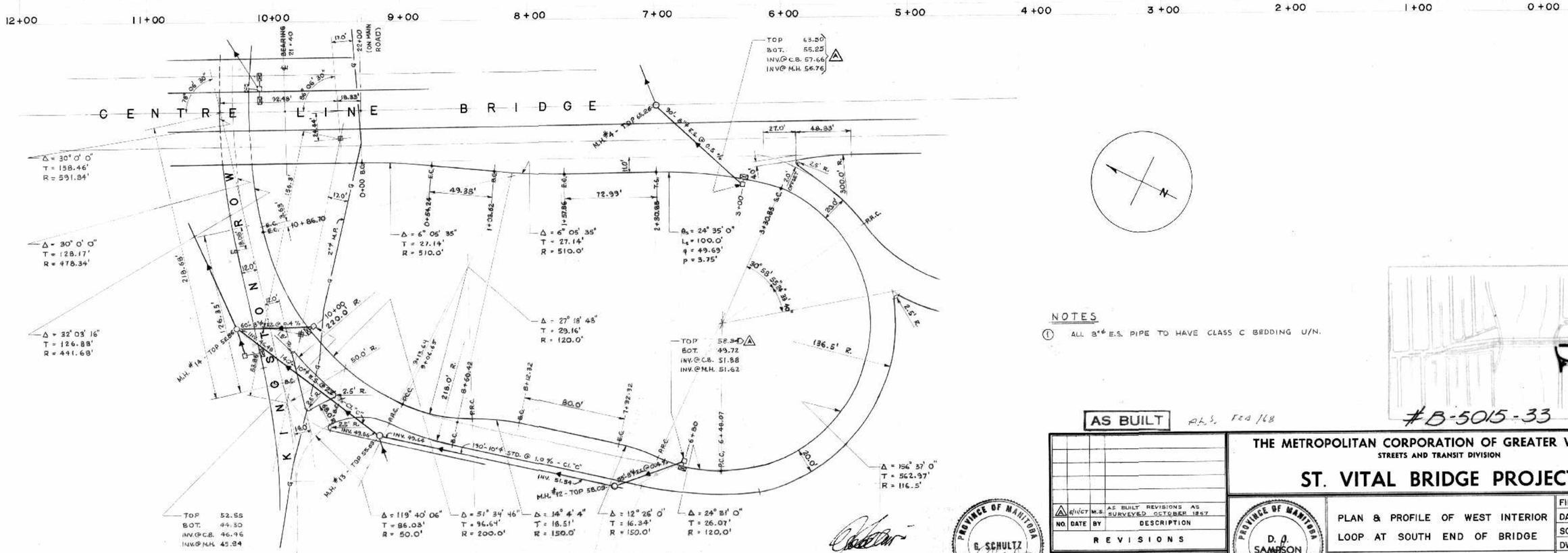
ST. VITAL BRIDGE PROJECT

PLAN & PROFILE OF MAIN ROAD AT SOUTH END OF BRIDGE

T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

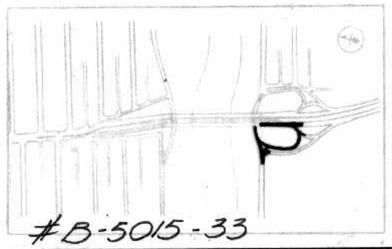
FILE No.	W-1008
DATE	FEB. 1965
SCALE	1" = 40'
DWN. BY	J. D. H.
CHKD. BY	D. W. B.
DWG. No.	RS-2





NOTES

① ALL 8" ⌀ E.S. PIPE TO HAVE CLASS C BEDDING U/N.



#B-5015-33

AS BUILT A.L.S. FEB 1/68

NO.	DATE	BY	DESCRIPTION
4	6/11/67	M.S.	AS BUILT REVISIONS AS SURVEYED OCTOBER 1967

REVISIONS

APPROVED BY

DEPUTY DIRECTOR OF STREETS & TRANSIT

DEPUTY MINISTER OF PUBLIC WORKS PROVINCE OF MANITOBA

PROVINCE OF MANITOBA G. SCHULTZ REGISTERED ENGINEER

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

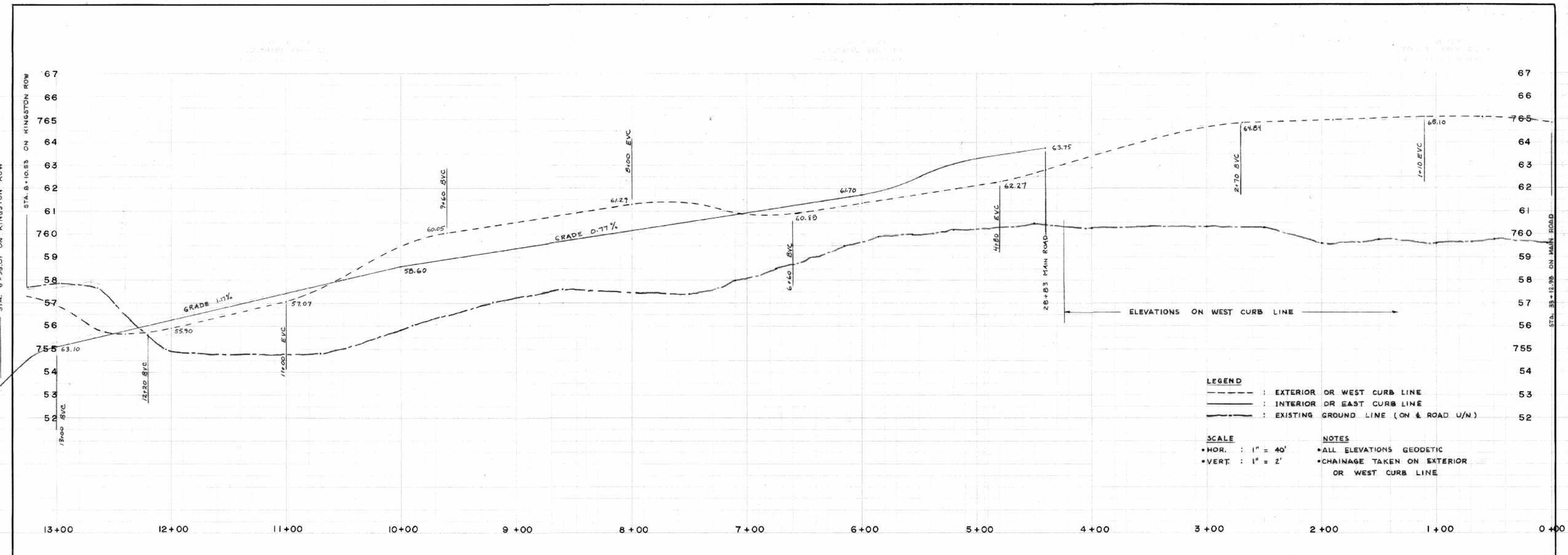
ST. VITAL BRIDGE PROJECT

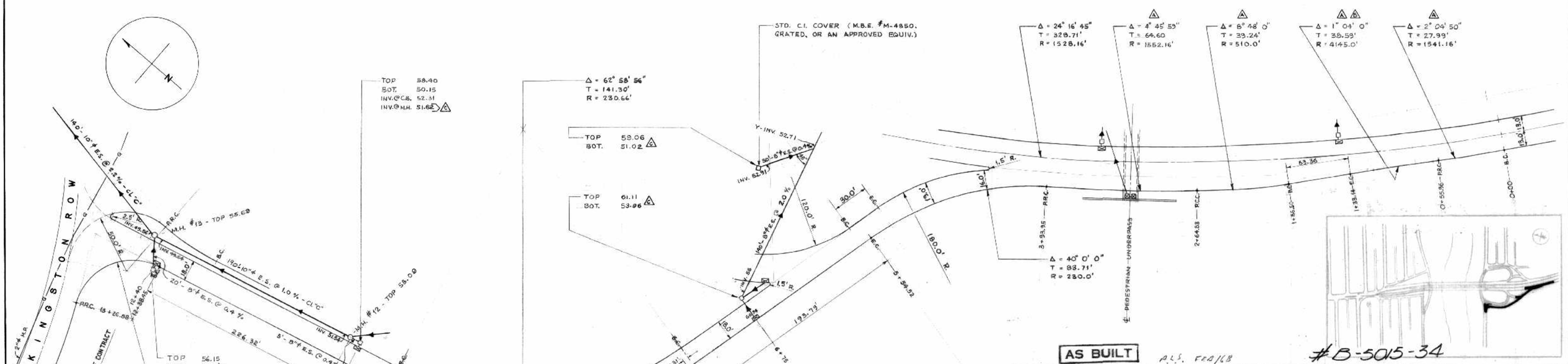
PLAN & PROFILE OF WEST INTERIOR LOOP AT SOUTH END OF BRIDGE

PROVINCE OF MANITOBA D. J. SAMPSON REGISTERED ENGINEER

T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

FILE No.	W-1008
DATE	FEB. 1965
SCALE	1" = 40'
DWN. BY	J.D.H.
CHKD. BY	D.W.B.
DWG. No.	RS-3





AS BUILT

P.L.S. FEB/68

#B-5015-34

NO.	DATE	BY	DESCRIPTION
4	6 NOV 67	M.S.	AS BUILT REVISIONS AS SURVEYED OCTOBER 67
3	7 JUN 66	J.D.H.	WEST CURB REVISED
2	13 MAY 65	J.D.H.	WEST CURB REVISED - PLAN
1			

REVISIONS

APPROVED BY

DEPUTY DIRECTOR OF STREETS & TRANSIT

DEPUTY MINISTER OF PUBLIC WORKS
PROVINCE OF MANITOBA

PROVINCE OF MANITOBA
E. SCHULTZ
REGISTERED ENGINEER

NOTES

① ALL 8"ϕ E.S. PIPE TO HAVE CLASS C BEDDING U/N.

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

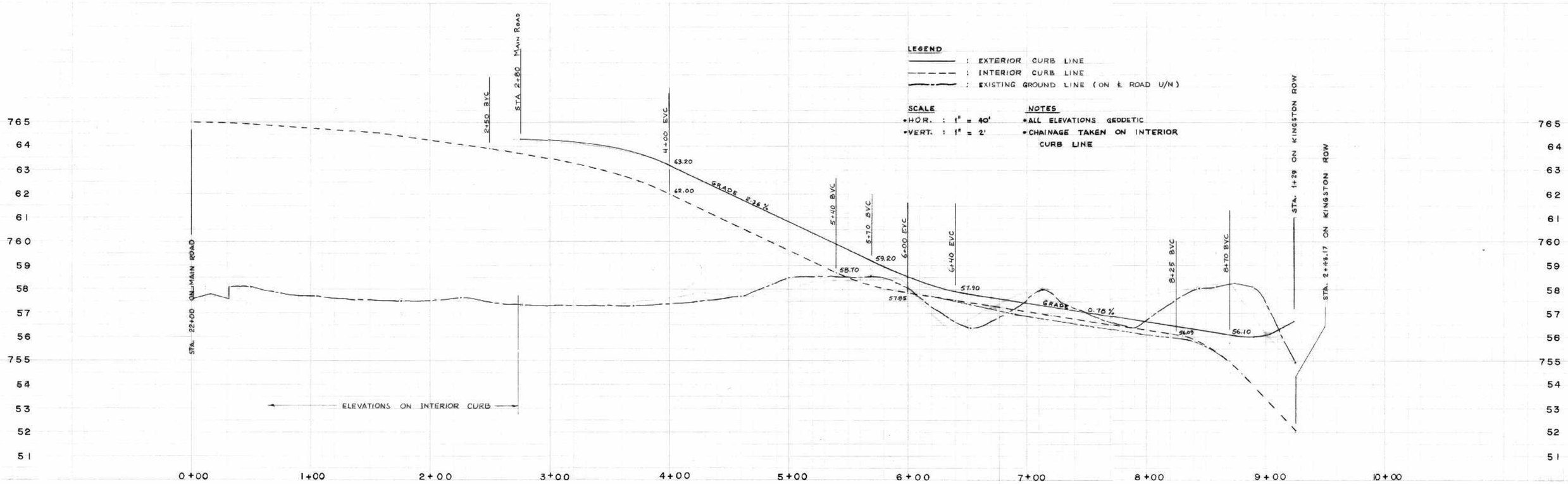
ST. VITAL BRIDGE PROJECT

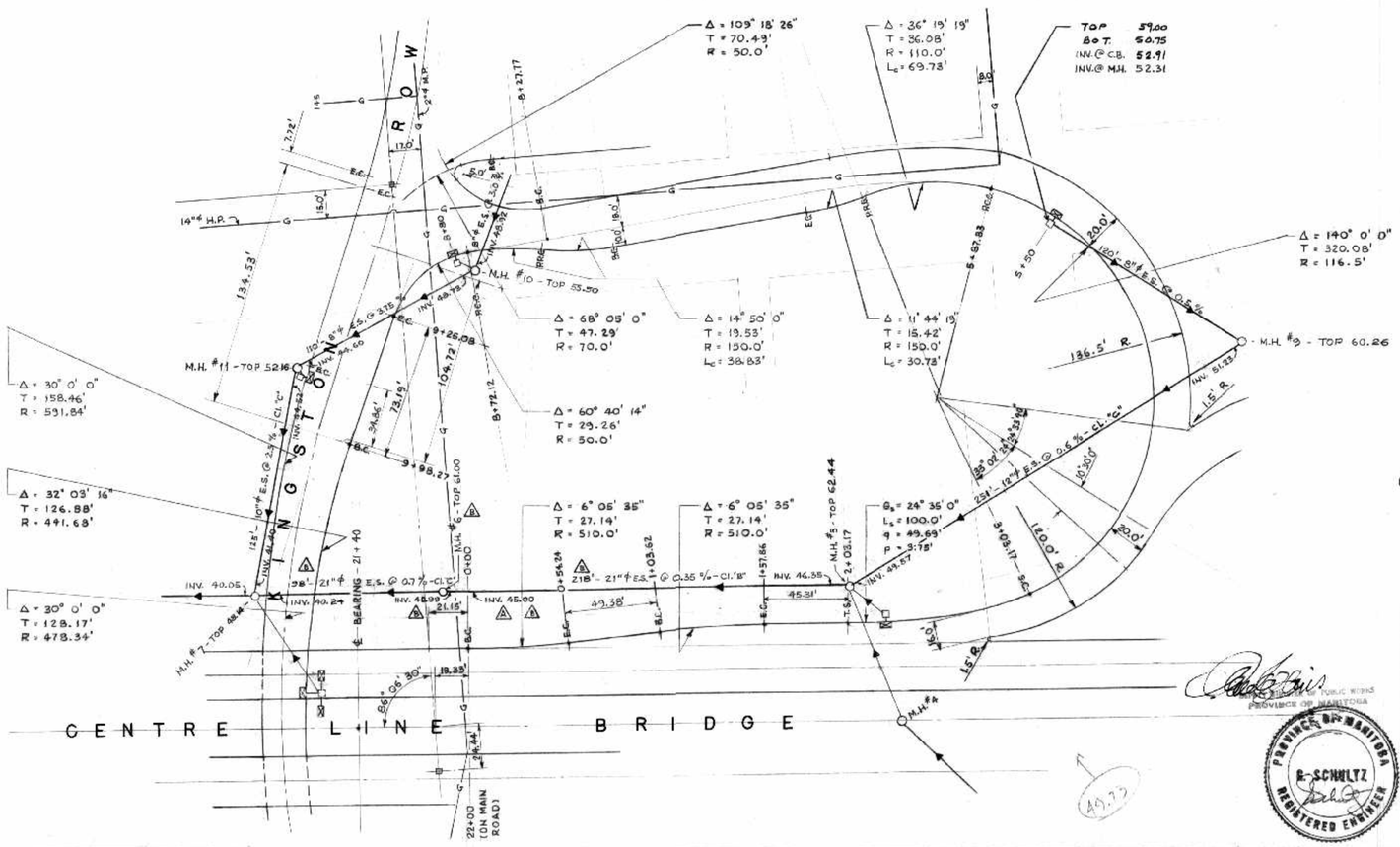
PROVINCE OF MANITOBA
D. J. SAMPSON
REGISTERED ENGINEER

PLAN & PROFILE OF WEST FRONTAGE ROAD AT SOUTH END OF BRIDGE

T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

FILE No.	W-1008
DATE	FEB. 1965
SCALE	1" = 40'
DWN. BY	J.D.H.
CHKD. BY	D.W.B.
DWG. No.	RS-4



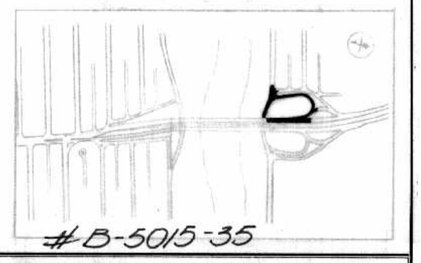


NOTES

1. ALL 8"ϕ E.S. PIPE TO HAVE CLASS C BEDDING U/N.

AS BUILT

A.L.S. Feb/68



NO.	DATE	BY	DESCRIPTION
3	15 NOV 67	W.S.	AS BUILT REVISIONS AS SURVEYED OCTOBER 1967
2	7 JUN 65	J.D.H.	INV. TO M.H. #6 CORRECTED

REVISIONS

APPROVED BY

DEPUTY DIRECTOR OF STREETS & TRANSIT

PROVINCE OF MANITOBA
R. SCHULTZ
REGISTERED ENGINEER

PROVINCE OF MANITOBA
D. SAMPSON
REGISTERED ENGINEER

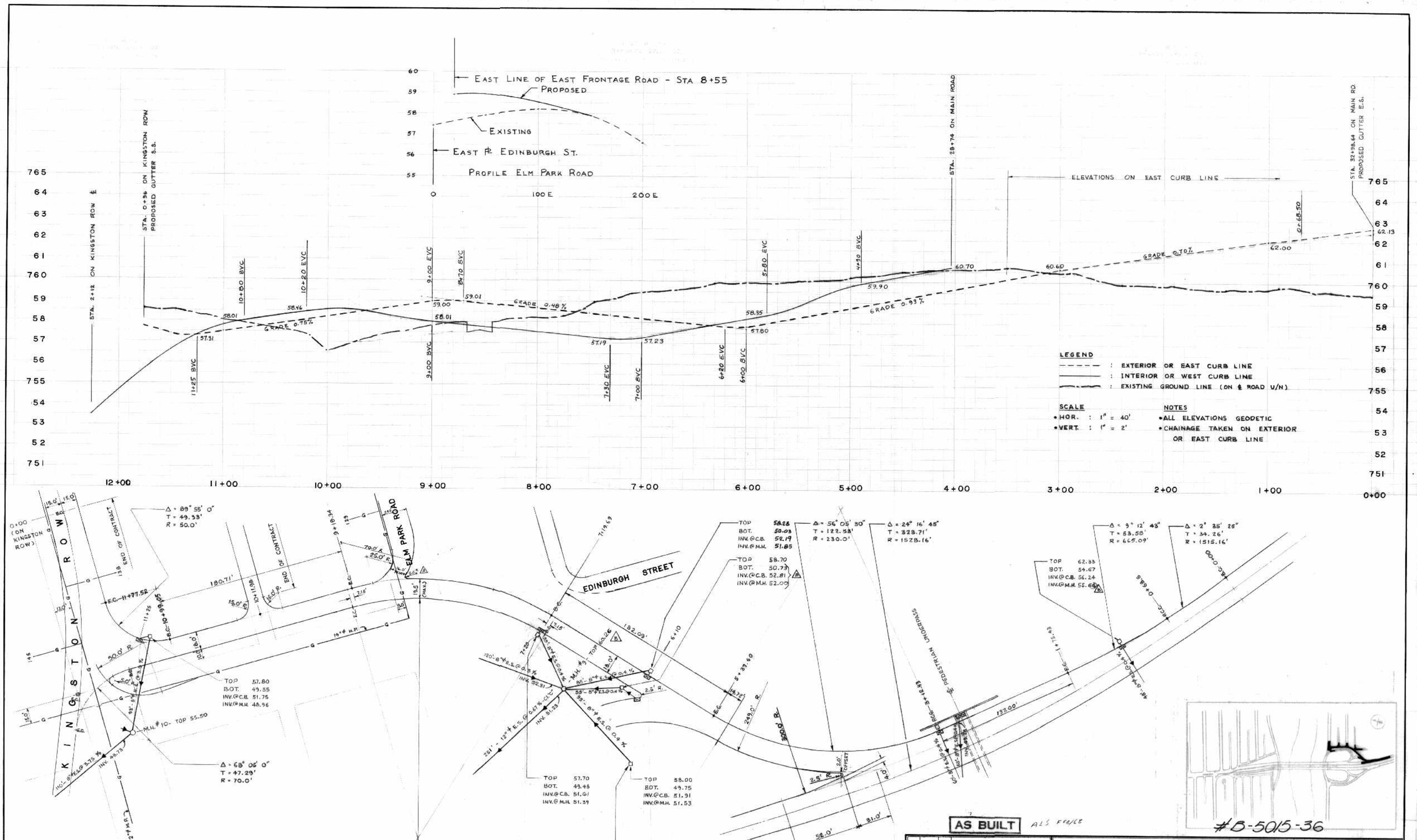
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

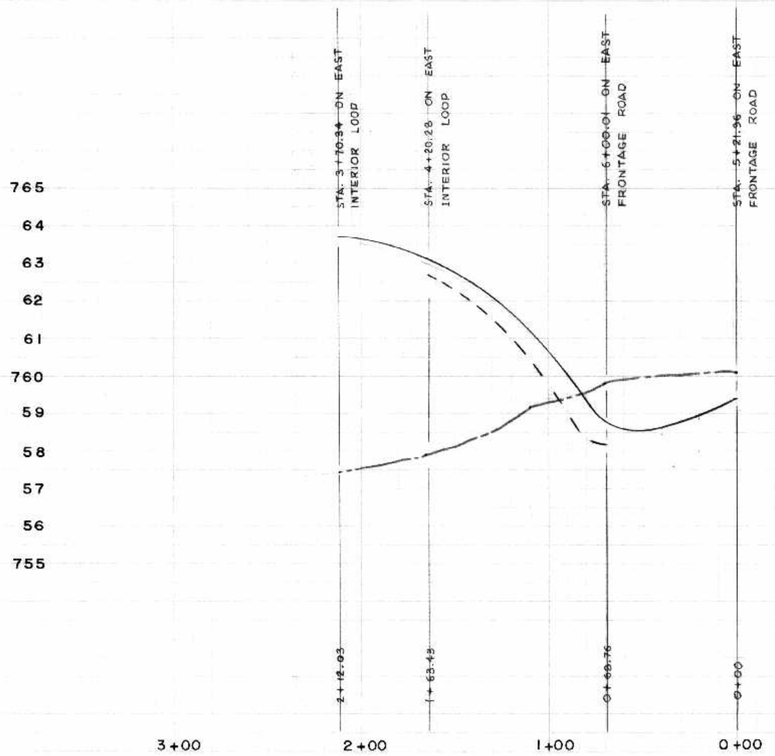
ST. VITAL BRIDGE PROJECT

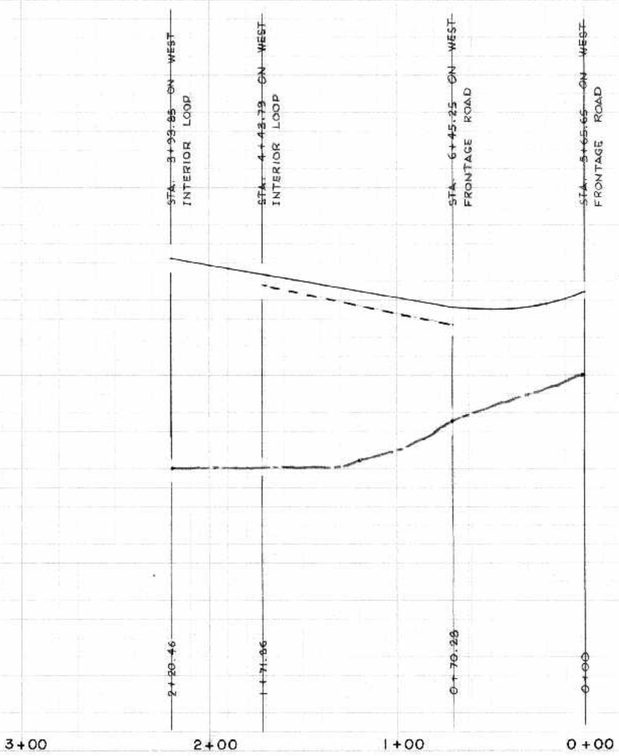
PLAN & PROFILE OF EAST INTERIOR LOOP AT SOUTH END OF BRIDGE

T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

FILE No.	W-1008
DATE	FEB. 1965
SCALE	1" = 40'
DWN. BY	J.D.H.
CHKD. BY	D.W.B.
DWG. No.	RS-5


EAST LINE OF EAST FRONTAGE ROAD - STA 8+55
PROPOSED
EXISTING
EAST ℄ EDINBURGH ST.
PROFILE ELM PARK ROAD
STA. 2+12 ON KINGSTON ROW ℄
STA. 0+96 ON KINGSTON ROW PROPOSED GUTTER E.S.
STA. 28+74 ON MAIN ROAD
STA. 32+98.64 ON MAIN RD. PROPOSED GUTTER E.S.
ELEVATIONS ON EAST CURB LINE
GRADE 0.75%
GRADE 0.48%
GRADE 0.93%
GRADE 0.70%
LEGEND
: EXTERIOR OR EAST CURB LINE
: INTERIOR OR WEST CURB LINE
: EXISTING GROUND LINE (ON ℄ ROAD U/N)
SCALE
•HOR. : 1" = 40'
•VERT. : 1" = 2'
NOTES
•ALL ELEVATIONS GEODETIC
•CHAINAGE TAKEN ON EXTERIOR OR EAST CURB LINE
KINGSTON ROW
ELM PARK ROAD
EDINBURGH STREET
Δ = 89° 55' 0"
T = 49.33'
R = 50.0'
Δ = 68° 05' 0"
T = 47.29'
R = 70.0'
Δ = 47° 25' 23"
T = 104.46'
R = 238.29
Δ = 56° 05' 30"
T = 122.53'
R = 230.0'
Δ = 24° 16' 45"
T = 328.71'
R = 1528.16'
Δ = 9° 12' 48"
T = 53.58'
R = 665.09'
Δ = 2° 35' 25"
T = 34.26'
R = 1515.16'
TOP 57.80
BOT. 49.55
INV.@C.B. 51.75
INV.@M.H. 48.96
TOP 57.70
BOT. 49.45
INV.@C.B. 51.61
INV.@M.H. 51.39
TOP 58.00
BOT. 49.75
INV.@C.B. 51.91
INV.@M.H. 51.53
TOP 58.28
BOT. 50.03
INV.@C.B. 52.19
INV.@M.H. 51.85
TOP 58.70
BOT. 50.73
INV.@C.B. 52.81
INV.@M.H. 52.09
TOP 62.83
BOT. 54.67
INV.@C.B. 56.24
INV.@M.H. 55.66
M.H. #10 - TOP 55.50
M.H. #9 - TOP 60.26
STD. C.I. COVER (M.B.E. #M-4850, GRATED, OR AN APPROVED EQUIV.)
NOTES
① ALL 8"ϕ E.S. PIPE TO HAVE CLASS C BEDDING U/N.
AS BUILT
#B-5015-36
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION
ST. VITAL BRIDGE PROJECT
PLAN & PROFILE OF EAST FRONTAGE ROAD AT SOUTH END OF BRIDGE
T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG
FILE No. W-1008
DATE FEB. 1965
SCALE 1" = 40'
DWN. BY J.D.H.
CHKD. BY D.W.B.
DWG. No. RS-6
NO. DATE BY DESCRIPTION
REVISIONS
AS BUILT REVISIONS AS SURVEYED OCTOBER 1967
ELM PARK INTERSECTION
APPROVED BY
DEPUTY DIRECTOR OF STREETS & TRANSIT
PROVINCE OF MANITOBA
D. J. SAMPSON
REGISTERED ENGINEER





765
64
63
62
61
760
59
58
57
56
755

LEGEND

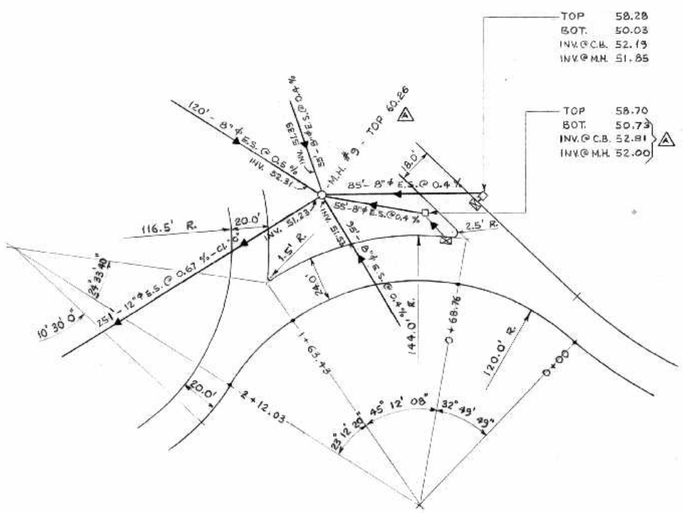
- - - - - : OUTSIDE CURB LINES
——— : INSIDE CURB LINES
—·—·— : EXISTING GROUND LINE (ON ℄ ROAD)

SCALE

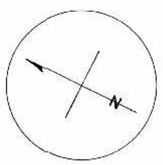
- HOR. : 1" = 40'
- VERT. : 1" = 2'

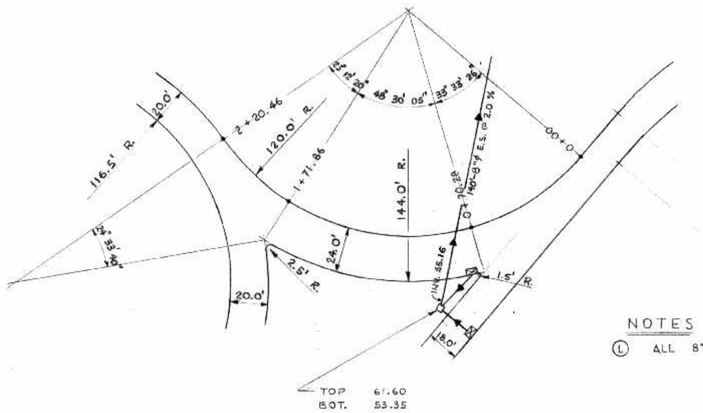
NOTES

- ALL ELEVATIONS GEODETIC



EAST BUS BAY

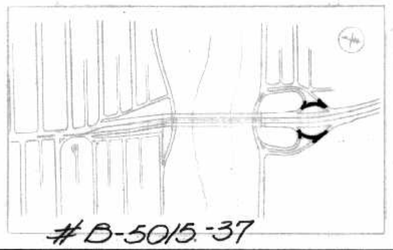




WEST BUS BAY

NOTES

(L) ALL 8"ϕ E.S. PIPE TO HAVE CLASS C BEDDING U/N.



#B-5015-37

AS BUILT ALS FEB/69

DEPUTY MINISTER OF PUBLIC WORKS
PROVINCE OF MANITOBA

PROVINCE OF MANITOBA G. SCHULTZ REGISTERED ENGINEER

NO.	DATE	BY	DESCRIPTION
1	6 NOV 67	M.S.	AS BUILT REVISIONS AS SURVEYED OCTOBER 1967

REVISIONS

APPROVED BY

DEPUTY DIRECTOR OF STREETS & TRANSIT

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

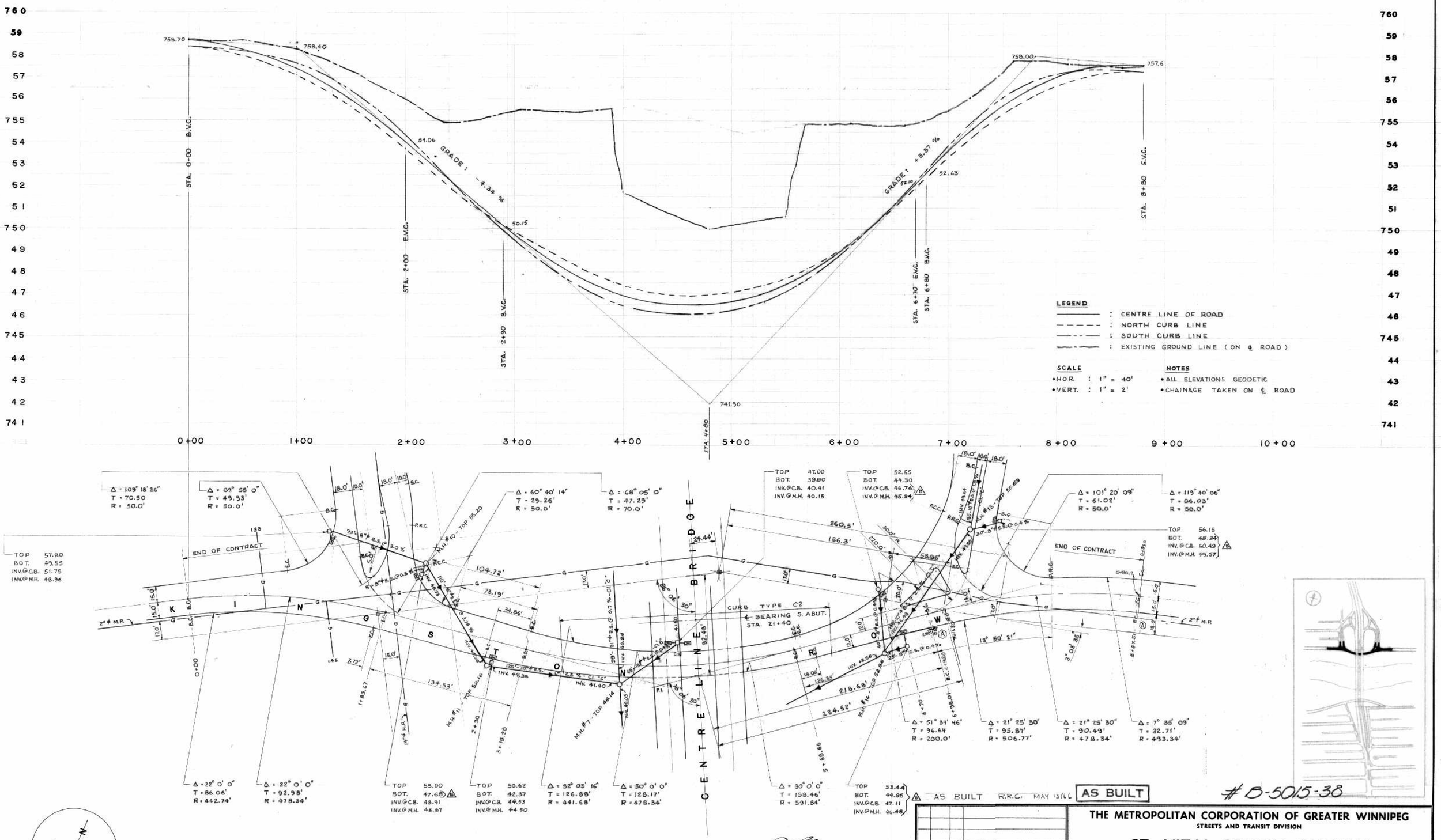
ST. VITAL BRIDGE PROJECT

PROVINCE OF MANITOBA A. J. SAMPSON REGISTERED ENGINEER

PLAN & PROFILE OF EAST & WEST BUS BAYS AT SOUTH END OF BRIDGE

T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

FILE No.	W-1008
DATE	FEB. 1965
SCALE	1" = 40'
DWN. BY	J.D.H.
CHKD. BY	D.W.B.
DWG. No.	RS-7



NOTES

1. ALL 8"ϕ E.S. PIPE TO HAVE CLASS C BEDDING U/N.
2. FOR DETAILS OF CURB TYPE C2, SEE DWG. #RS-18.

NO.	DATE	BY	DESCRIPTION
4	6 NOV 66	M.S.	AS BUILT REVISIONS AS SURVEYED OCTOBER 1967
3	13 MAY 66	R.R.C.	B.C. & E.C. KINGSTON ROW

REVISIONS

APPROVED BY

DEPUTY DIRECTOR OF STREETS & TRANSIT

DEPUTY MINISTER OF PUBLIC WORKS
PROVINCE OF MANITOBA

PROVINCE OF MANITOBA
G. SCHULTZ
REGISTERED ENGINEER

PROVINCE OF MANITOBA
D. J. SAMPSON
REGISTERED ENGINEER

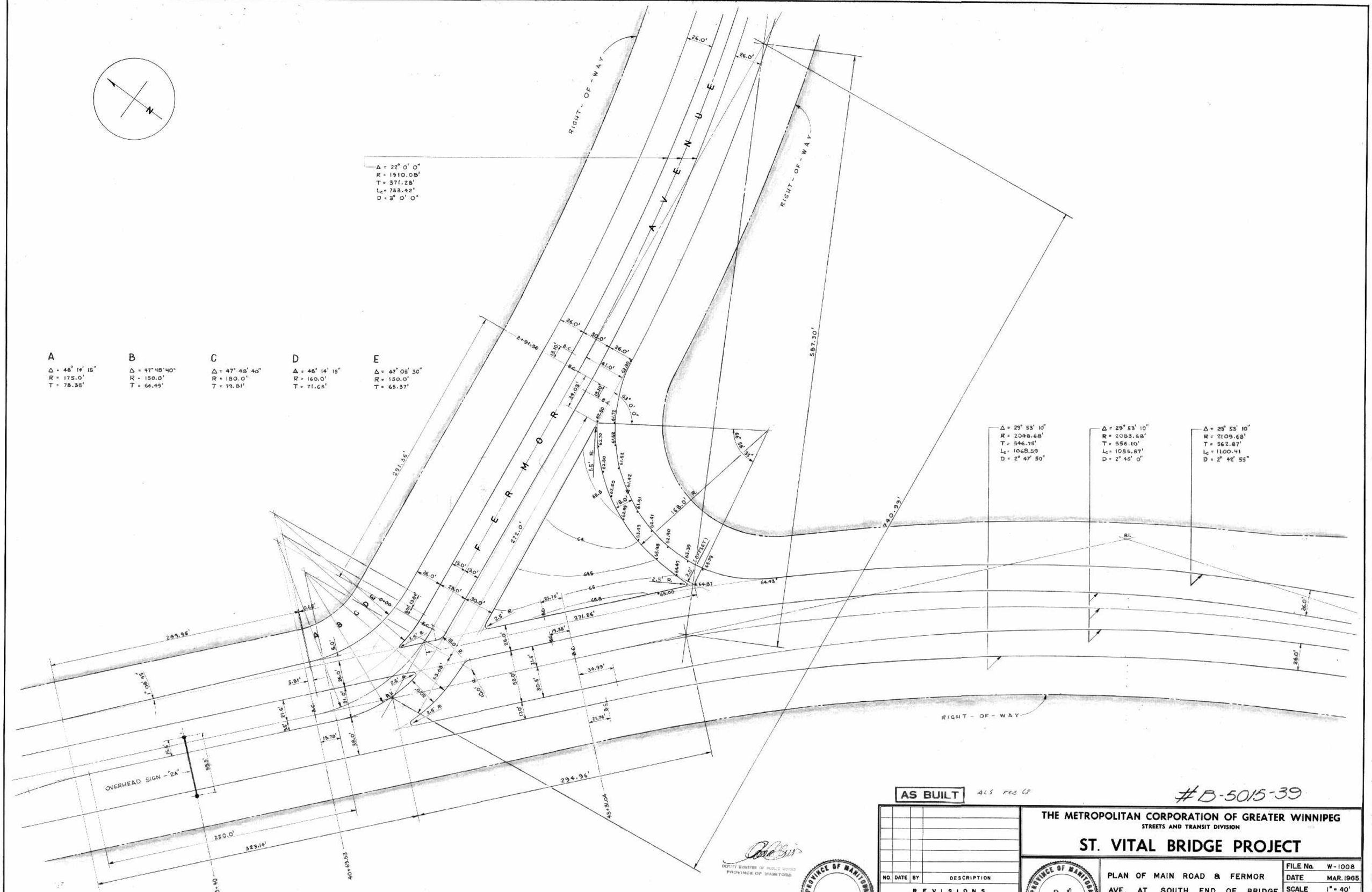
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

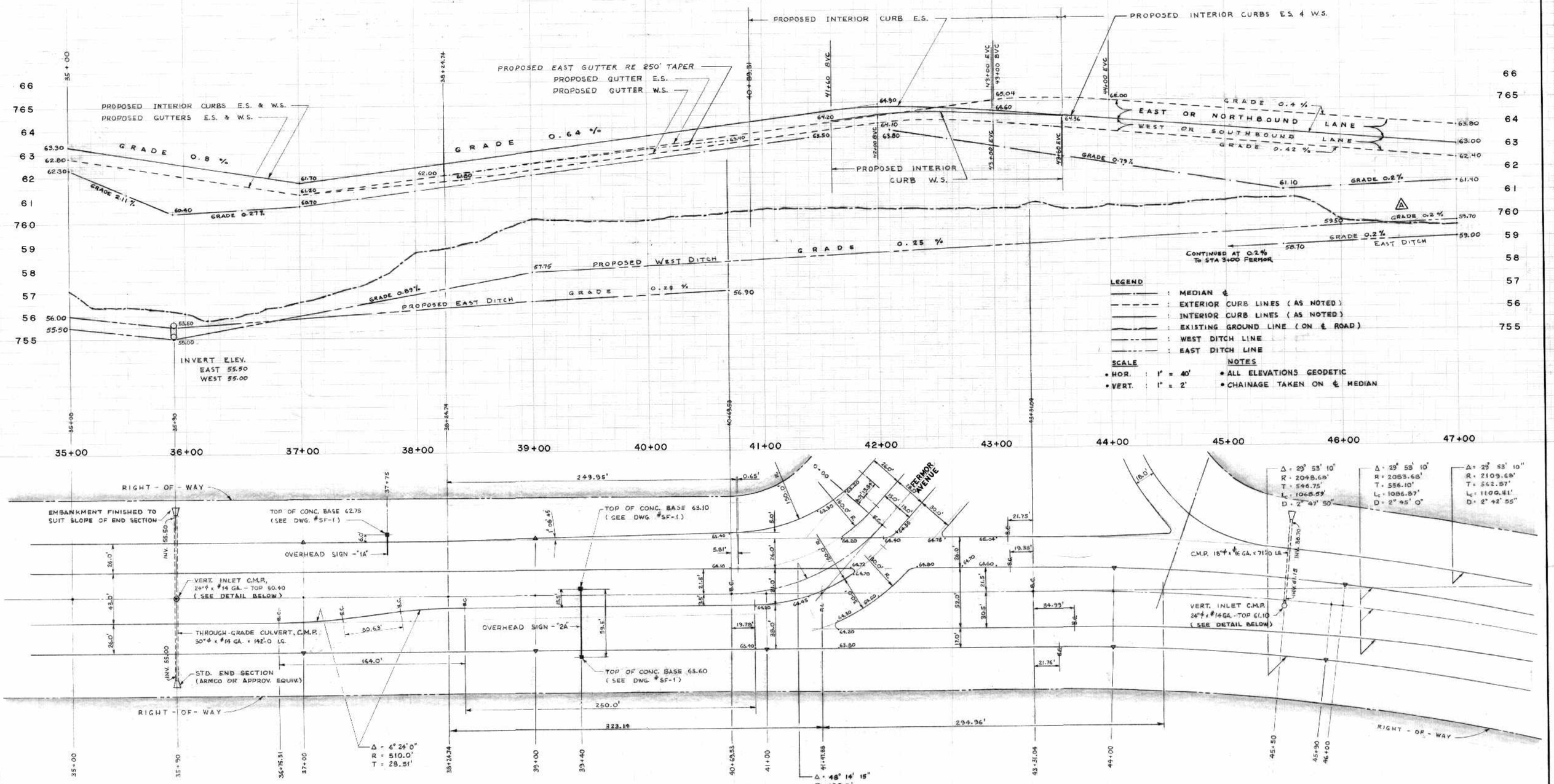
ST. VITAL BRIDGE PROJECT

PLAN & PROFILE OF KINGSTON ROW DIVERSION AT SOUTH END OF BRIDGE

T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

FILE No.	W-1008
DATE	FEB. 1965
SCALE	1" = 40'
DWN. BY	J.D.H.
CHKD. BY	D.W.B.
DWG. No.	RS-8


N
RIGHT - OF - WAY
FERMOR AVENUE
ROAD
Δ = 22° 0' 0"
R = 1910.08'
T = 371.28'
Lc = 733.42'
D = 3° 0' 0"
A
Δ = 48° 14' 15"
R = 175.0'
T = 78.35'
B
Δ = 47° 48' 40"
R = 150.0'
T = 66.49'
C
Δ = 47° 48' 40"
R = 180.0'
T = 79.81'
D
Δ = 48° 14' 15"
R = 160.0'
T = 71.63'
E
Δ = 47° 05' 30"
R = 150.0'
T = 65.37'
Δ = 29° 53' 10"
R = 2048.68'
T = 546.75'
Lc = 1068.59
D = 2° 47' 50"
Δ = 29° 53' 10"
R = 2083.68'
T = 556.10'
Lc = 1086.87'
D = 2° 45' 0"
Δ = 29° 53' 10"
R = 2109.68'
T = 562.87'
Lc = 1100.41
D = 2° 42' 55"
OVERHEAD SIGN - "2A"
RIGHT - OF - WAY
AS BUILT
ALS FEB 68
#B-5015-39
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION
ST. VITAL BRIDGE PROJECT
NO. DATE BY DESCRIPTION
REVISIONS
APPROVED BY
DEPUTY DIRECTOR OF STREETS & TRANSIT
DEPUTY MINISTER OF PUBLIC WORKS
PROVINCE OF MANITOBA
PROVINCE OF MANITOBA
G. SCHULTZ
REGISTERED ENGINEER
PROVINCE OF MANITOBA
D. J. SAMPSON
REGISTERED ENGINEER
PLAN OF MAIN ROAD & FERMOR AVE. AT SOUTH END OF BRIDGE
T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG
FILE No. W-1008
DATE MAR. 1965
SCALE 1" = 40'
DWN. BY J.D.H.
CHKD. BY D.J.S.
DWG. No. RS-9



AS BUILT

AS FRAME

#B-5015-40

NO.	DATE	BY	DESCRIPTION
2			
1			
2	G.NOVST	W.S.	AS BUILT REVISIONS AS SURVEYED OCTOBER 67
1	JUL/15/66	J.D.H.	REVISED WEST DITCH PROFILE

REVISIONS

APPROVED BY

DEPUTY DIRECTOR OF STREETS & TRANSIT

DEPUTY MINISTER OF PUBLIC WORKS
PROVINCE OF MANITOBA

PROVINCE OF MANITOBA
B. SCHULTZ
REGISTERED ENGINEER

PROVINCE OF MANITOBA
D. J. SAMPSON
REGISTERED ENGINEER

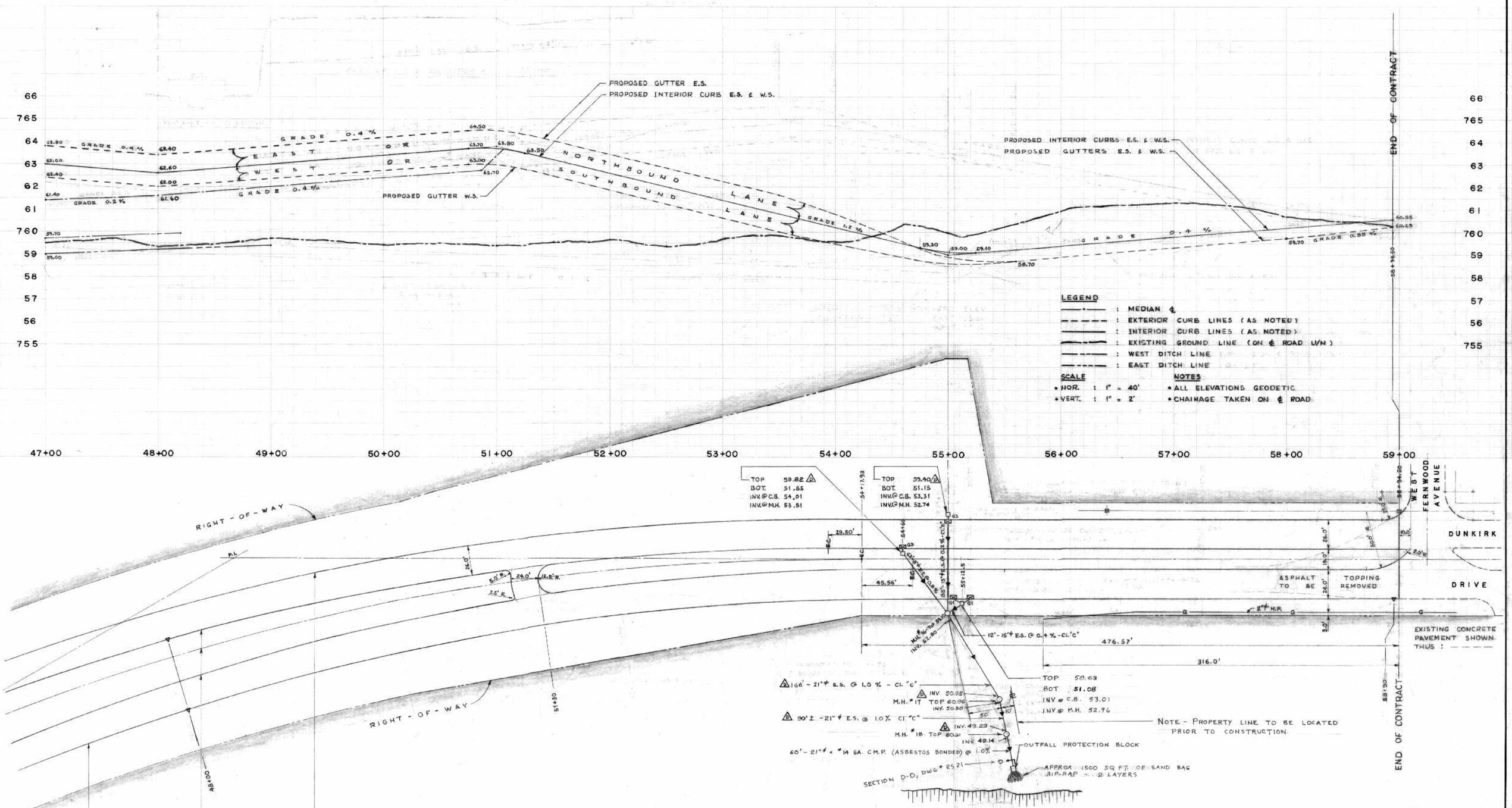
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

ST. VITAL BRIDGE PROJECT

PLAN & PROFILE OF MAIN ROAD FROM INTERCHANGE TO FERMOR AVE. AT SOUTH SIDE OF BRIDGE

T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

FILE No.	W-1008
DATE	MAR. 1965
SCALE	1" = 40' 1/4"
DWN. BY	J.D.H.
CHKD. BY	D.J.S.
DWG. No.	RS-10



NOTES

1. ALL 8"ϕ E.S. PIPE TO HAVE CLASS "C" BEDDING U/N.
2. CONNECTIONS BETWEEN CURB INLETS AND CATCH BASINS ARE NOTED AS TYPE G1 OR G3 - WHICH ARE DETAILED ON DRAWING #RS-17 AND #RS-18.

AS BUILT ALS FRB/68

#B-5015-41

DEPUTY MINISTER OF PUBLIC WORKS
PROVINCE OF MANITOBA

PROVINCE OF MANITOBA G. SCHULTZ REGISTERED ENGINEER

NO.	DATE	BY	DESCRIPTION
4	NOV.67	M.S.	AS BUILT REVISIONS AS SURVEYED OCTOBER 67
3	JUL.30	D.W.B.	SEWER OUTFALL LINE
2	JUL.19-65	J.D.H.	GENERAL REVISION
1	JUL.8-65	J.D.H.	MEDIAN OPENING & CULVERT ADDED

REVISIONS

APPROVED BY
DEPUTY DIRECTOR OF STREETS & TRANSIT

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

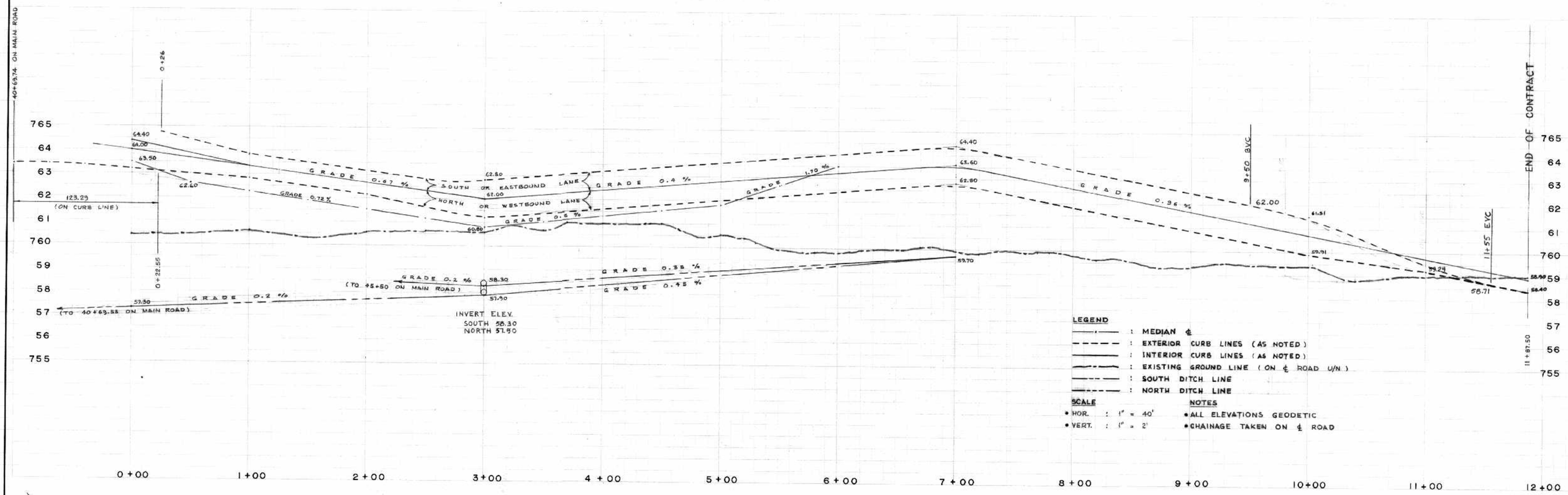
ST. VITAL BRIDGE PROJECT

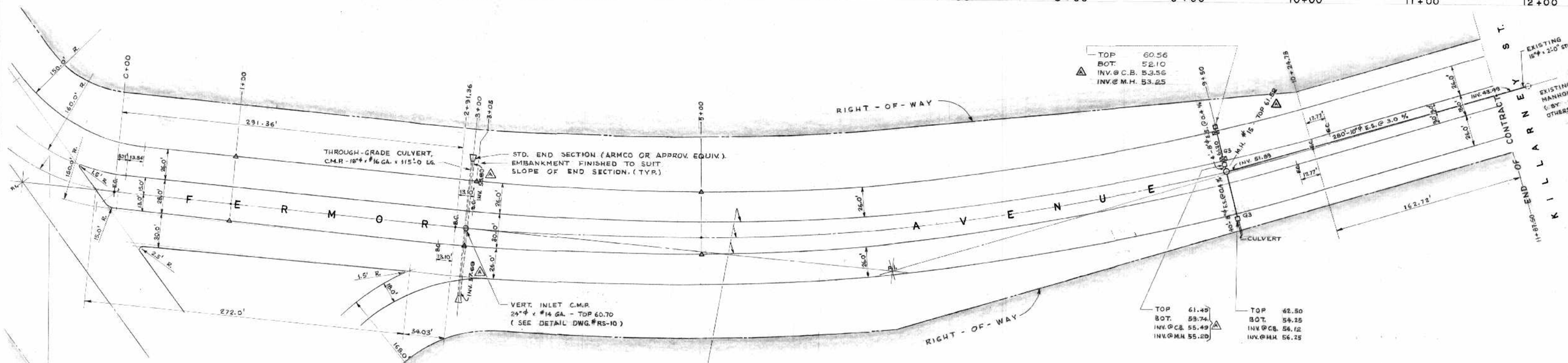
PROVINCE OF MANITOBA D. J. SAMPSON REGISTERED ENGINEER

PLAN & PROFILE OF MAIN ROAD FROM FERMOR AVE. TO WEST FERNWOOD AVE. AT SOUTH SIDE OF BRIDGE

T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

FILE No.	W-1008
DATE	MAR. 1965
SCALE	1" = 40'
DWN. BY	J.D.H.
CHKD. BY	D.J.S.
DWG. No.	RS-11





NOTES

1. ALL 8"ϕ E.S. PIPE TO HAVE CLASS C BEDDING U/N.
2. CONNECTION BETWEEN CURB INLETS AND CATCH BASINS ARE NOTED AS TYPE G3 - WHICH IS DETAILED ON DRAWING #RS-17.

AS BUILT

ALS FEB/68

#B-5015-42

NO.	DATE	BY	DESCRIPTION
4	8 NOV 67	M.S.	AS BUILT REVISIONS AS SURVEYED OCTOBER 67

REVISIONS

APPROVED BY

DEPUTY DIRECTOR OF STREETS & TRANSIT

DEPUTY MINISTER OF PUBLIC WORKS
PROVINCE OF MANITOBA

PROVINCE OF MANITOBA — G. SCHULTZ — REGISTERED ENGINEER

PROVINCE OF MANITOBA — D. J. SAMPSON — REGISTERED ENGINEER

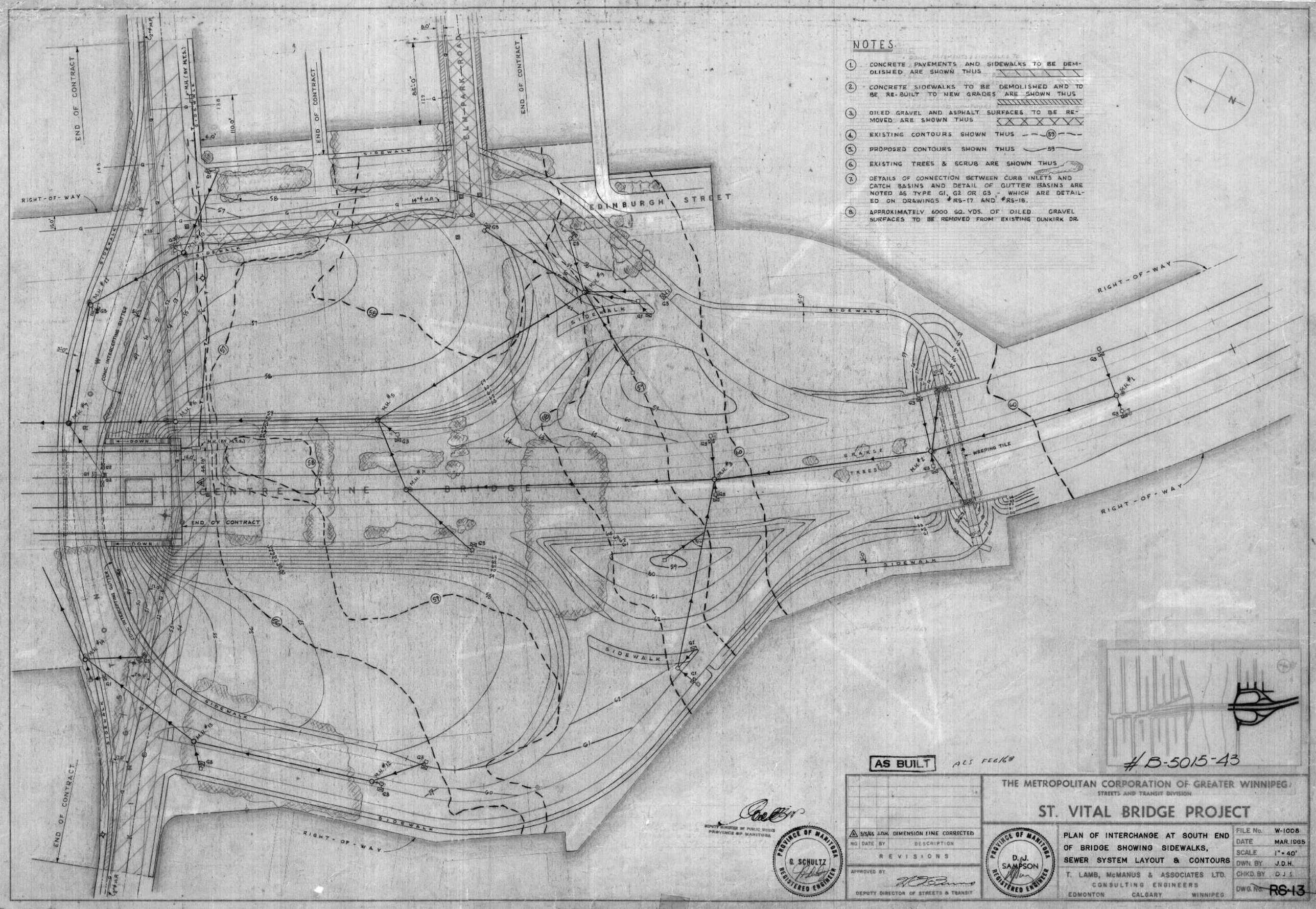
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

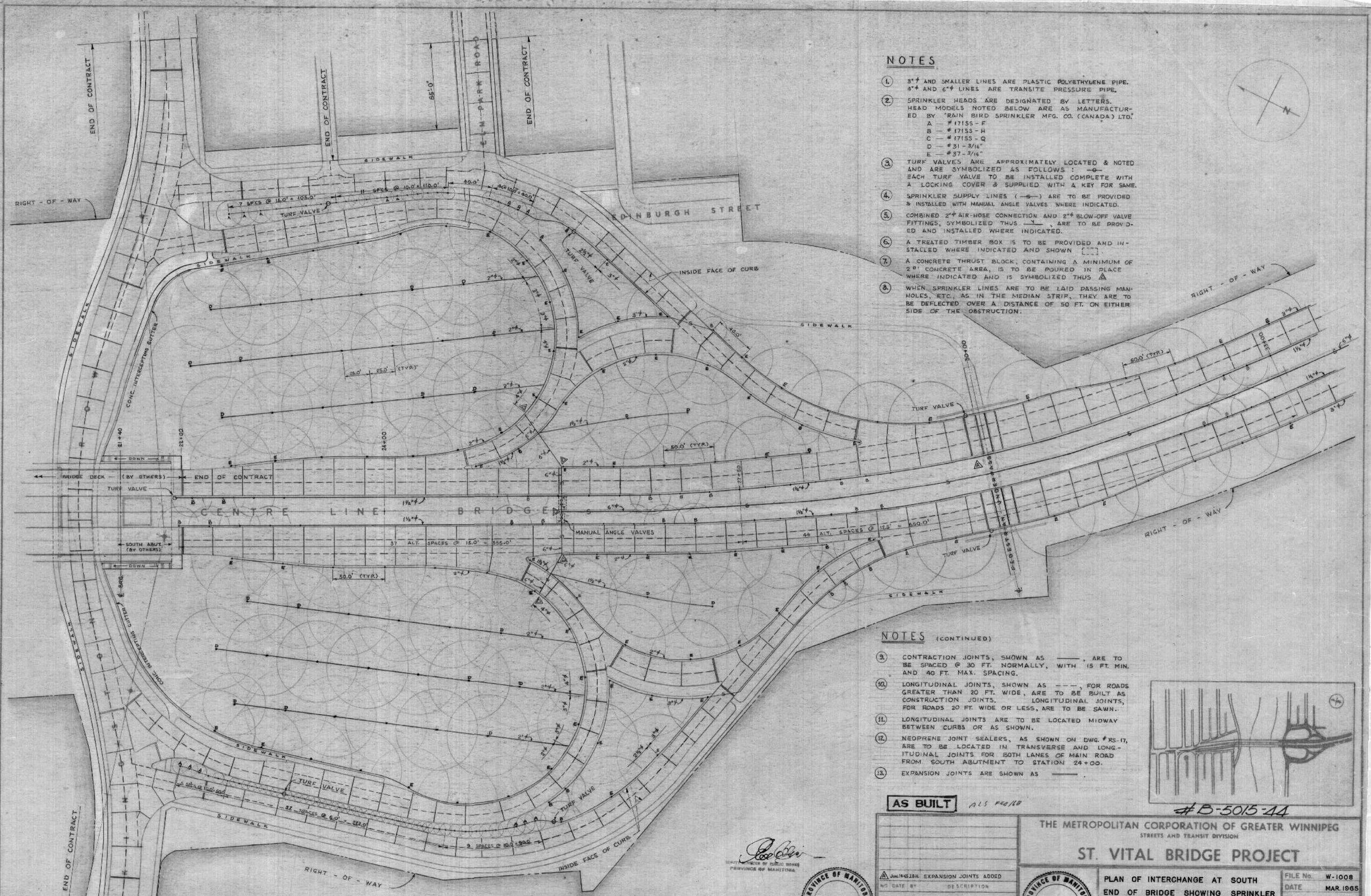
ST. VITAL BRIDGE PROJECT

PLAN & PROFILE OF FERMOR AVE. FROM MAIN ROAD TO KILLARNEY ST. AT SOUTH SIDE OF BRIDGE

T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

FILE No.	W-1008
DATE	MAR. 1965
SCALE	1" = 40'
DWN. BY	J.D.H.
CHKD. BY	D.J.S.
DWG. No.	RS-12


NOTES.
1. CONCRETE PAVEMENTS AND SIDEWALKS TO BE DEMOLISHED ARE SHOWN THUS
2. CONCRETE SIDEWALKS TO BE DEMOLISHED AND TO BE RE-BUILT TO NEW GRADES ARE SHOWN THUS
3. OILED GRAVEL AND ASPHALT SURFACES TO BE REMOVED ARE SHOWN THUS
4. EXISTING CONTOURS SHOWN THUS
5. PROPOSED CONTOURS SHOWN THUS
6. EXISTING TREES & SCRUB ARE SHOWN THUS
7. DETAILS OF CONNECTION BETWEEN CURB INLETS AND CATCH BASINS AND DETAIL OF GUTTER BASINS ARE NOTED AS TYPE G1, G2 OR G3 - WHICH ARE DETAILED ON DRAWINGS #RS-17 AND #RS-18.
8. APPROXIMATELY 6000 SQ. YDS. OF OILED GRAVEL SURFACES TO BE REMOVED FROM EXISTING DUNKIRK DR.
N
END OF CONTRACT
RIGHT-OF-WAY
ELM PARK ROAD
EDINBURGH STREET
SIDEWALK
CONC. INTERCEPTING GUTTER
CENTRE LINE BRIDGE
DOWN
WEEPING TILE
SPARSE TREES
M.H. #1
M.H. #2
M.H. #4
M.H. #5
M.H. #6
M.H. #7
M.H. #8
M.H. #9
M.H. #10
M.H. #11
M.H. #12
M.H. #13
M.H. #14
M.H. (BY MTS.)
AS BUILT
ALS FEB/68
#B-5015-43
3/5/65 J.D.H. DIMENSION LINE CORRECTED
NO. DATE BY DESCRIPTION
REVISIONS
APPROVED BY
DEPUTY DIRECTOR OF STREETS & TRANSIT
DEPUTY MINISTER OF PUBLIC WORKS PROVINCE OF MANITOBA
PROVINCE OF MANITOBA G. SCHULTZ REGISTERED ENGINEER
PROVINCE OF MANITOBA D.J. SAMPSON REGISTERED ENGINEER
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION
ST. VITAL BRIDGE PROJECT
PLAN OF INTERCHANGE AT SOUTH END OF BRIDGE SHOWING SIDEWALKS, SEWER SYSTEM LAYOUT & CONTOURS
T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG
FILE No. W-1008
DATE MAR. 1965
SCALE 1" = 40'
DWN. BY J.D.H.
CHKD. BY D.J.S.
DWG. No. RS-13



NOTES

1. 3"ϕ AND SMALLER LINES ARE PLASTIC POLYETHYLENE PIPE. 4"ϕ AND 6"ϕ LINES ARE TRANSITE PRESSURE PIPE.
2. SPRINKLER HEADS ARE DESIGNATED BY LETTERS. HEAD MODELS NOTED BELOW ARE AS MANUFACTURED BY "RAIN BIRD SPRINKLER MFG. CO. (CANADA) LTD."
   - A — # 1715S - F
   - B — # 1715S - H
   - C — # 1715S - Q
   - D — # 31 - 3/16"
   - E — # 37 - 3/16"
3. TURF VALVES ARE APPROXIMATELY LOCATED & NOTED AND ARE SYMBOLIZED AS FOLLOWS : —o— EACH TURF VALVE TO BE INSTALLED COMPLETE WITH A LOCKING COVER & SUPPLIED WITH A KEY FOR SAME.
4. SPRINKLER SUPPLY LINES (—S—) ARE TO BE PROVIDED & INSTALLED WITH MANUAL ANGLE VALVES WHERE INDICATED.
5. COMBINED 2"ϕ AIR-HOSE CONNECTION AND 2"ϕ BLOW-OFF VALVE FITTINGS, SYMBOLIZED THUS —Y—, ARE TO BE PROVIDED AND INSTALLED WHERE INDICATED.
6. A TREATED TIMBER BOX IS TO BE PROVIDED AND INSTALLED WHERE INDICATED AND SHOWN [ ].
7. A CONCRETE THRUST BLOCK, CONTAINING A MINIMUM OF 2 ⁰' CONCRETE AREA, IS TO BE POURED IN PLACE WHERE INDICATED AND IS SYMBOLIZED THUS △
8. WHEN SPRINKLER LINES ARE TO BE LAID PASSING MANHOLES, ETC., AS IN THE MEDIAN STRIP, THEY ARE TO BE DEFLECTED OVER A DISTANCE OF 50 FT. ON EITHER SIDE OF THE OBSTRUCTION.

NOTES (CONTINUED)

9. CONTRACTION JOINTS, SHOWN AS ——, ARE TO BE SPACED @ 30 FT. NORMALLY, WITH 15 FT. MIN. AND 40 FT. MAX. SPACING.
10. LONGITUDINAL JOINTS, SHOWN AS – – –, FOR ROADS GREATER THAN 20 FT. WIDE, ARE TO BE BUILT AS CONSTRUCTION JOINTS. LONGITUDINAL JOINTS, FOR ROADS 20 FT. WIDE OR LESS, ARE TO BE SAWN.
11. LONGITUDINAL JOINTS ARE TO BE LOCATED MIDWAY BETWEEN CURBS OR AS SHOWN.
12. NEOPRENE JOINT SEALERS, AS SHOWN ON DWG. # RS-17, ARE TO BE LOCATED IN TRANSVERSE AND LONGITUDINAL JOINTS FOR BOTH LANES OF MAIN ROAD FROM SOUTH ABUTMENT TO STATION 24+00.
13. EXPANSION JOINTS ARE SHOWN AS ——.

AS BUILT ALS FEB/68

#B-5015-44

No	DATE	BY	DESCRIPTION
1	Jan.14-68	J.B.N.	EXPANSION JOINTS ADDED

REVISIONS

APPROVED BY

DEPUTY DIRECTOR OF STREETS & TRANSIT

DEPUTY MINISTER OF PUBLIC WORKS PROVINCE OF MANITOBA

PROVINCE OF MANITOBA G. SCHULTZ REGISTERED ENGINEER

PROVINCE OF MANITOBA D. J. SAMPSON REGISTERED ENGINEER

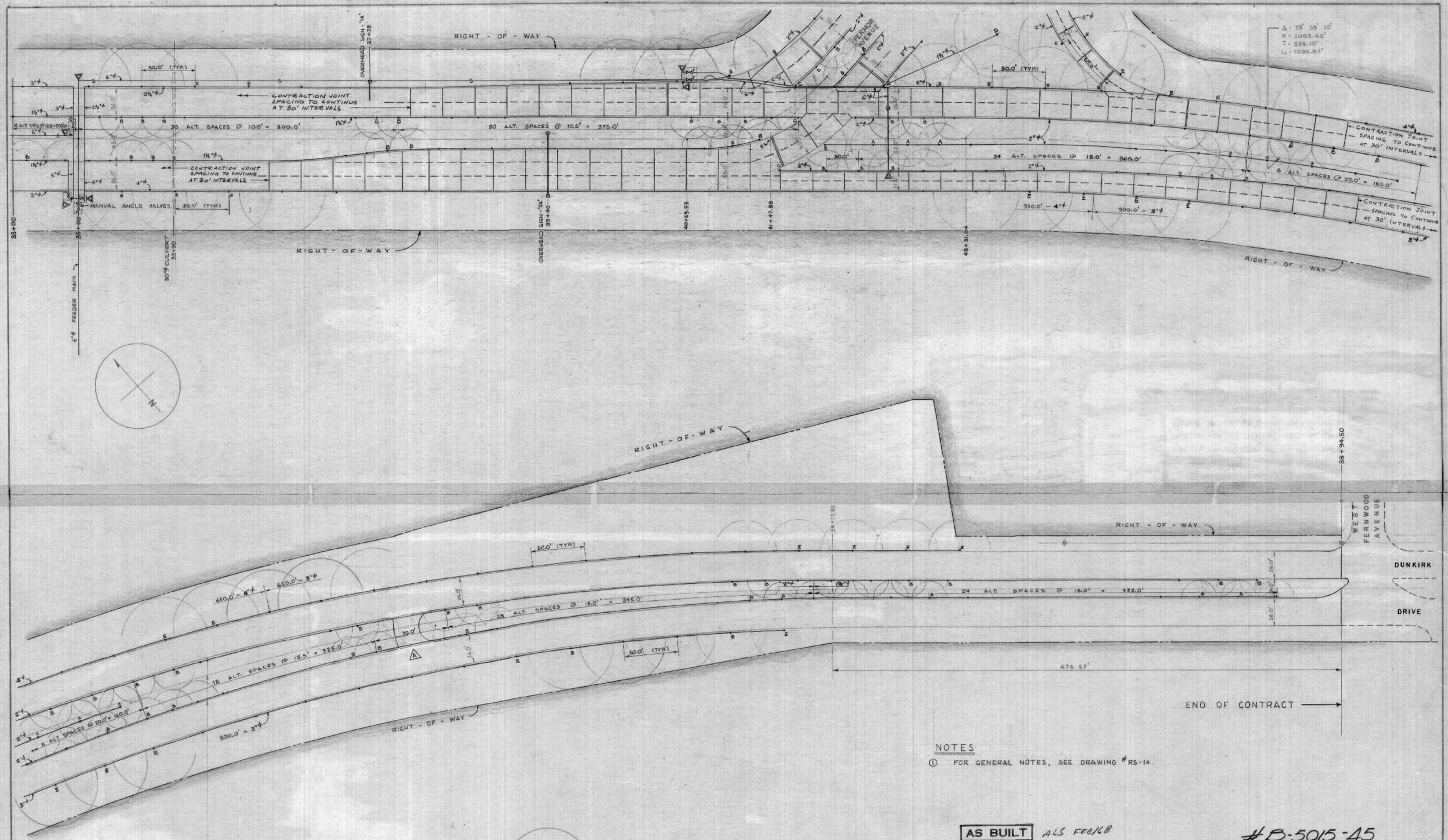
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

ST. VITAL BRIDGE PROJECT

PLAN OF INTERCHANGE AT SOUTH END OF BRIDGE SHOWING SPRINKLER SYSTEM AND PAVEMENT JOINTS

T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

FILE No.	W-1008
DATE	MAR. 1965
SCALE	1" = 40'
DWN. BY	J.D.H.
CHKD. BY	D.J.S.
DWG. No.	RS-14



NOTES

① FOR GENERAL NOTES, SEE DRAWING #RS-14.

AS BUILT ALS FEB/68

#B-5015-45

NO.	DATE	BY	DESCRIPTION
1	JUL. 8-68	J.D.H.	MEDIAN OPENING ADDED

REVISIONS

APPROVED BY

DEPUTY DIRECTOR OF STREETS & TRANSIT

DEPUTY MINISTER OF PUBLIC WORKS PROVINCE OF MANITOBA

PROVINCE OF MANITOBA G. SCHULTZ REGISTERED ENGINEER

PROVINCE OF MANITOBA D. J. SAMPSON REGISTERED ENGINEER

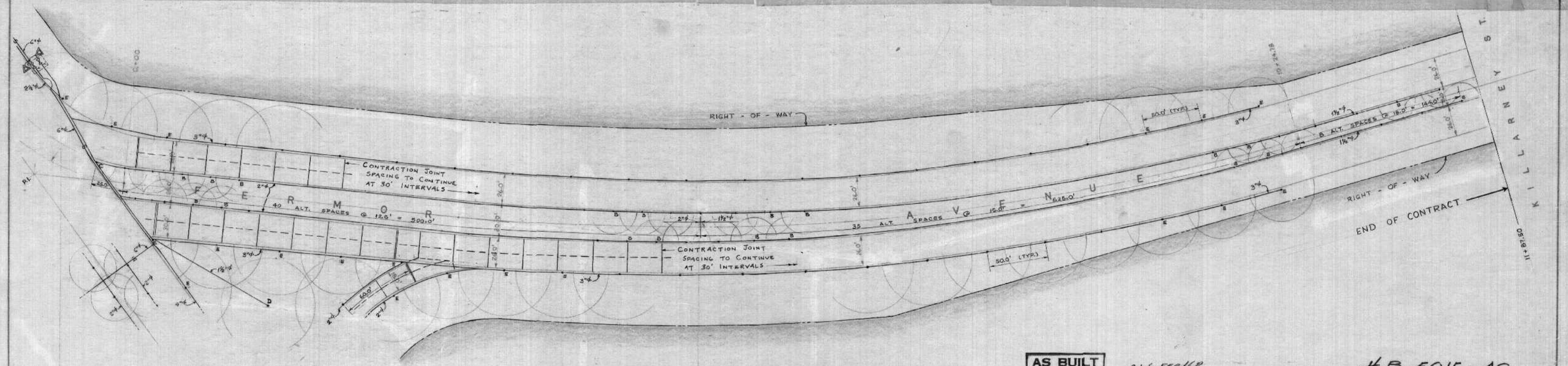
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

ST. VITAL BRIDGE PROJECT

PLAN OF MAIN ROAD FROM INTERCHANGE TO WEST FERNWOOD SHOWING SPRINKLERS & PAVEMENT JTS

T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

FILE No.	W-1008
DATE	MAR. 1965
SCALE	1" = 40'
DWN. BY	J.D.H.
CHKD. BY	D.J.S.
DWG. No.	RS-15



Δ = 48° 14' 15"
R = 175.0'
T = 78.55'

Δ = 22° 0' 0"
R = 1910.08'
T = 371.28'

N

AS BUILT

ALS FEB/68

#B-5015-46

DEPUTY MINISTER OF PUBLIC WORKS
PROVINCE OF MANITOBA

PROVINCE OF MANITOBA
G. SCHULTZ
REGISTERED ENGINEER

NO.	DATE	BY	DESCRIPTION

REVISIONS

APPROVED BY

DEPUTY DIRECTOR OF STREETS & TRANSIT

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

ST. VITAL BRIDGE PROJECT

PROVINCE OF MANITOBA
D. J. SAMPSON
REGISTERED ENGINEER

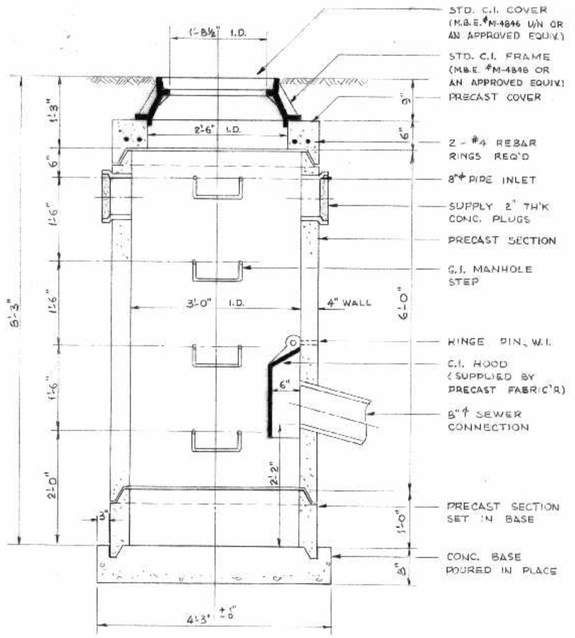
PLAN OF FERMOR AVE. FROM MAIN ROAD TO KILLARNEY ST. SHOWING SPRINKLERS AND PAVEMENT JOINTS

T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

FILE No.	W-1008
DATE	MAR. 1965
SCALE	1" = 40'
DWN. BY	J.D.H.
CHKD. BY	D.J.S.
DWG. No.	RS-16

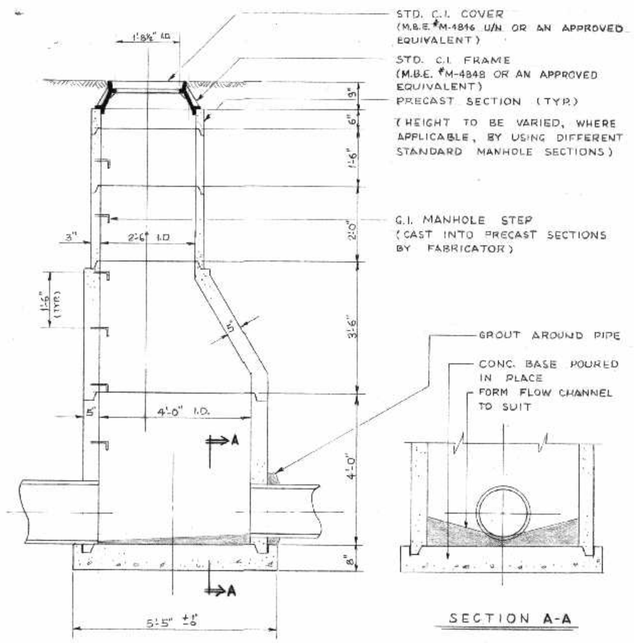
NOTES

1. FOR GENERAL NOTES, SEE DRAWING #RS-14.



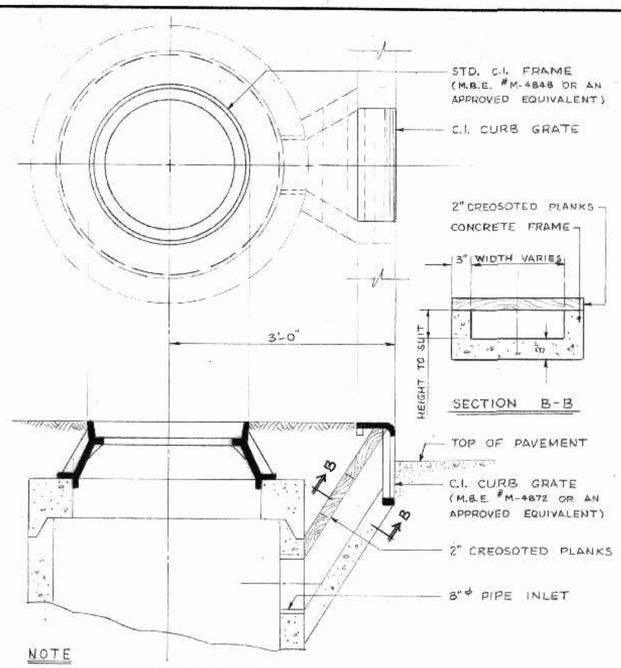
STANDARD PRECAST CATCH BASIN

SCALE : 3/4" = 1'-0"



STANDARD PRECAST MANHOLE

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

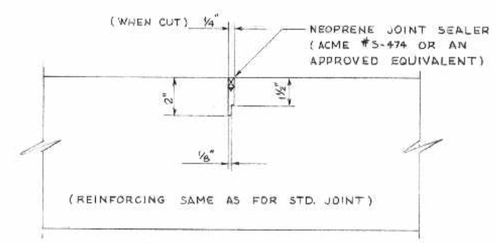


NOTE

THIS CONNECTION TO BE USED WHEN CURB INLET & C.B. ARE 4 FEET OR LESS APART.

TYPE G3 — **DETAILS OF CONNECTION BETWEEN CURB INLET & CATCH BASIN IN BOULEVARD**

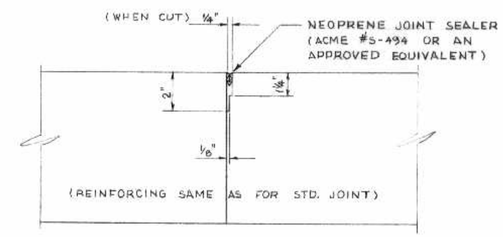
SCALE : 1" = 1'-0"



TRANSVERSE JOINT

NOTE

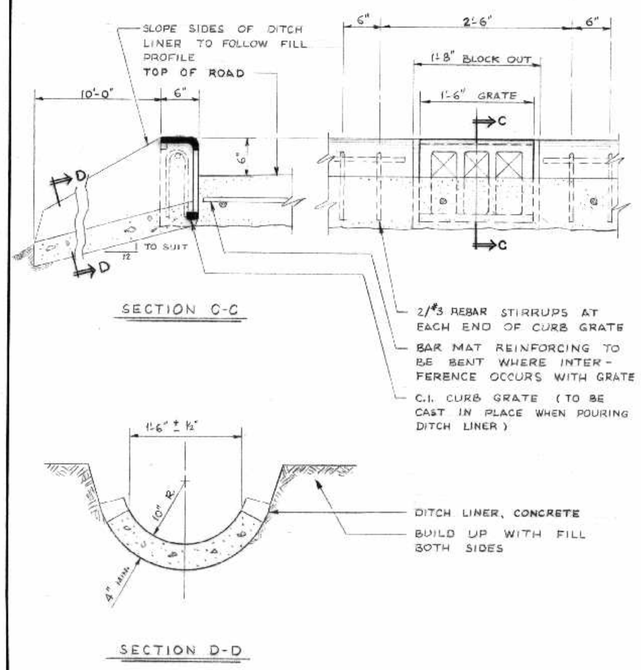
TRANS. JOINTS (ABOVE) & LONG. JOINTS (BELOW) TO BE LOCATED IN PAVEMENT FOR BOTH LANES OF MAIN ROAD FROM STA. 9+50 TO NORTH ABUT. & SOUTH ABUT. TO STA. 24+00.



LONGITUDINAL JOINT

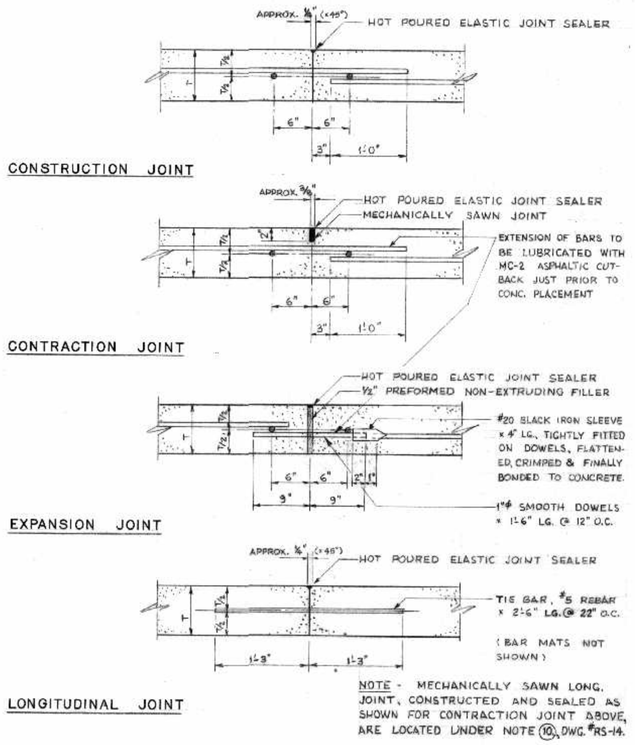
JOINT DETAILS FOR REINFORCED CONCRETE PAVEMENT

SCALE : 3" = 1'-0"



SURFACE DRAINAGE CURB BREAK & CONCRETE DITCH LINER

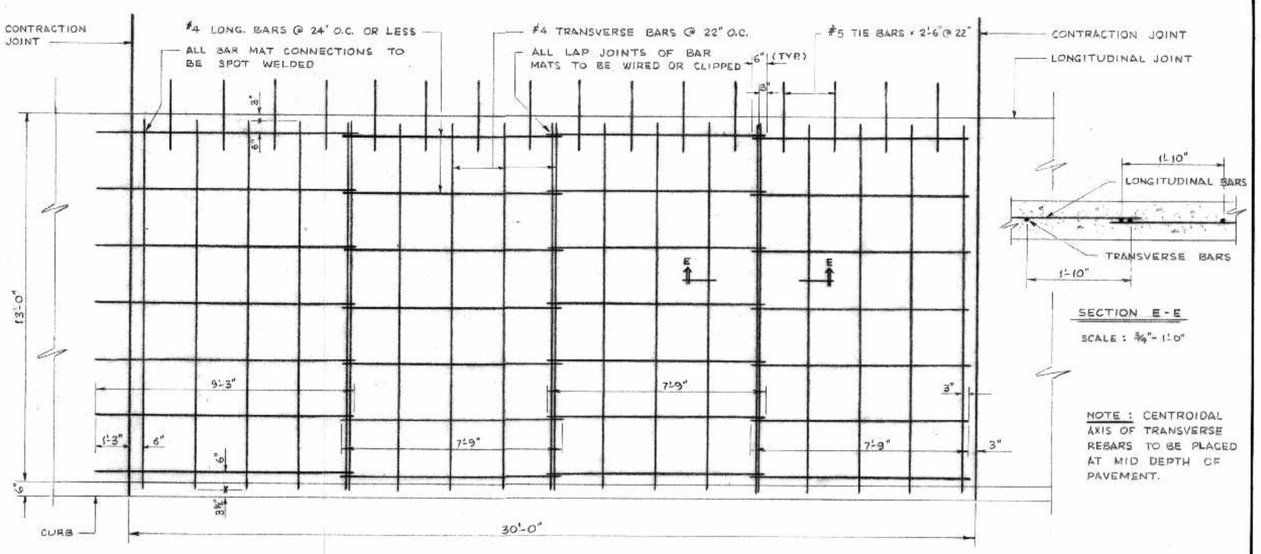
SCALE : 1" = 1'-0"



NOTE - MECHANICALLY SAWN LONG. JOINT, CONSTRUCTED AND SEALED AS SHOWN FOR CONTRACTION JOINT ABOVE, ARE LOCATED UNDER NOTE (10), DWG. #RS-14.

JOINT DETAILS FOR REINFORCED CONCRETE PAVEMENT

SCALE : 1" = 1'-0"



TYPICAL LAYOUT OF BAR MAT REINFORCEMENT FOR 26'-0" WIDE CONCRETE PAVEMENT

SCALE : 3/8" = 1'-0" U/N

AS BUILT ALS FEB/68 #B-5015-47

DEPUTY MINISTER OF PUBLIC WORKS
PROVINCE OF MANITOBA

PROVINCE OF MANITOBA — G. SCHULTZ — REGISTERED ENGINEER

NO.	DATE	BY	DESCRIPTION

REVISIONS

APPROVED BY

DEPUTY DIRECTOR OF STREETS & TRANSIT

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

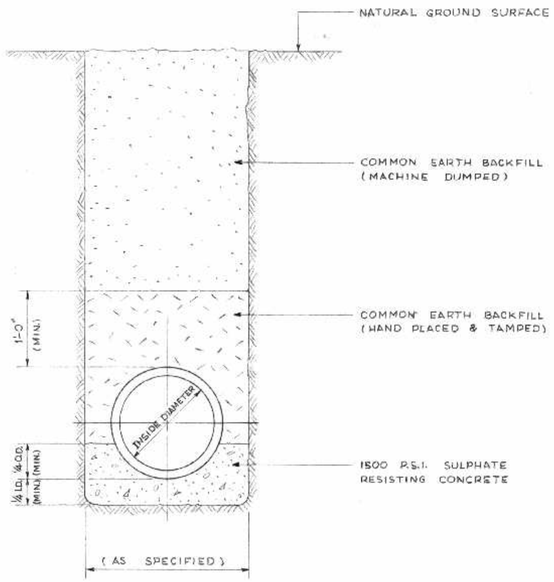
ST. VITAL BRIDGE PROJECT

PROVINCE OF MANITOBA — D. J. SAMPSON — REGISTERED ENGINEER

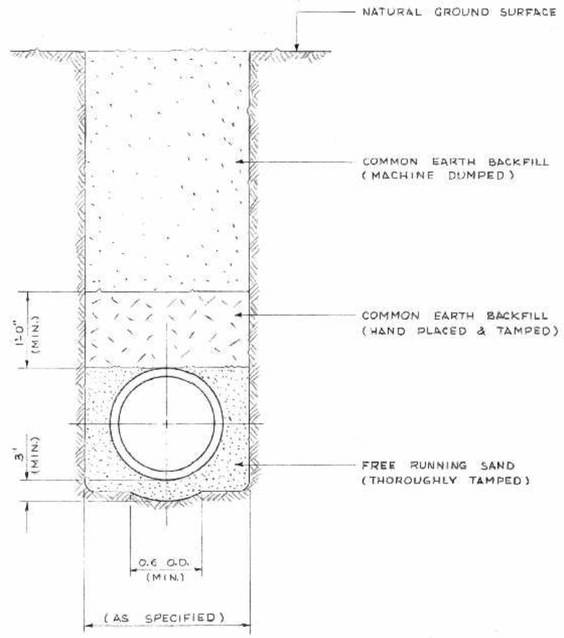
DETAILS OF CATCH BASIN, MANHOLE, CURB BREAK & MISC. PAVEMENT JOINTS

T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

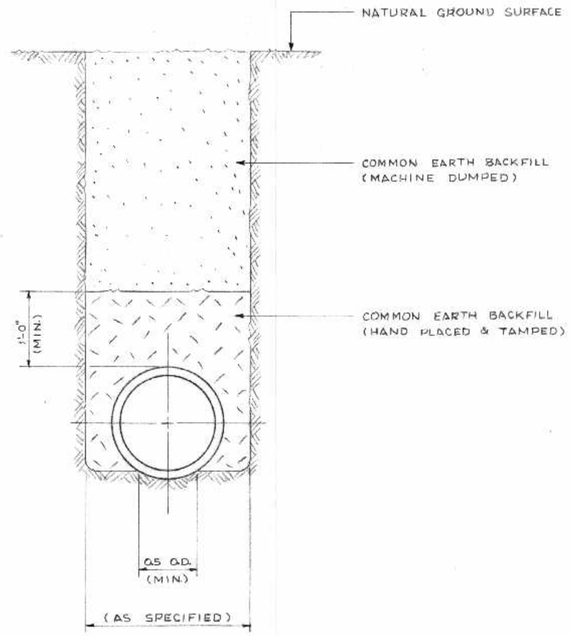
FILE No.	W-1008
DATE	MAR. 1965
SCALE	NOTED
DWN. BY	J.D.H.
CHKD. BY	D.J.S.
DWG. No.	RS-17



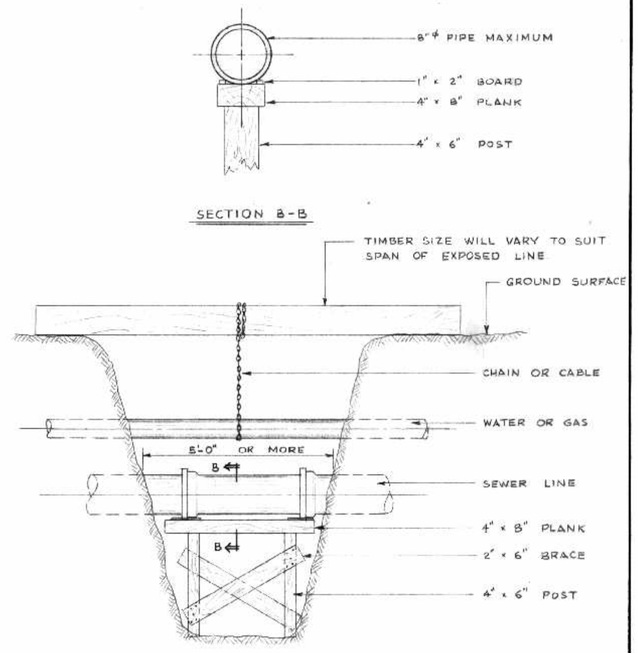
CLASS A PIPE BEDDING



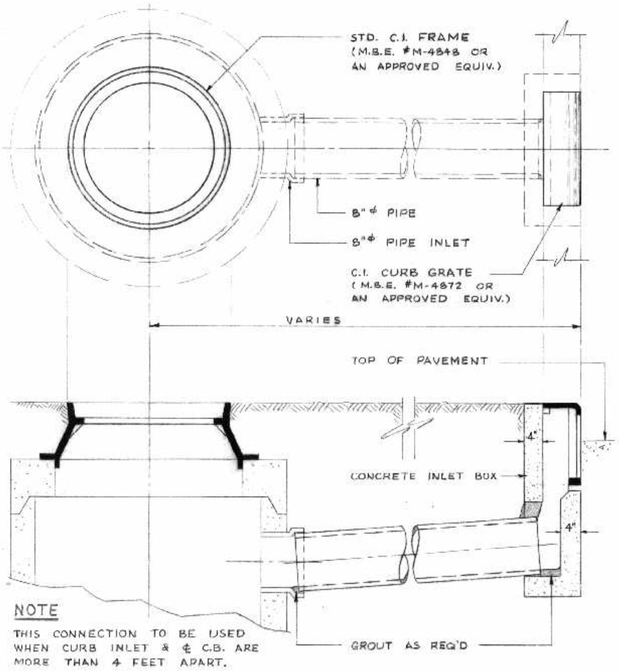
CLASS B PIPE BEDDING



CLASS C PIPE BEDDING

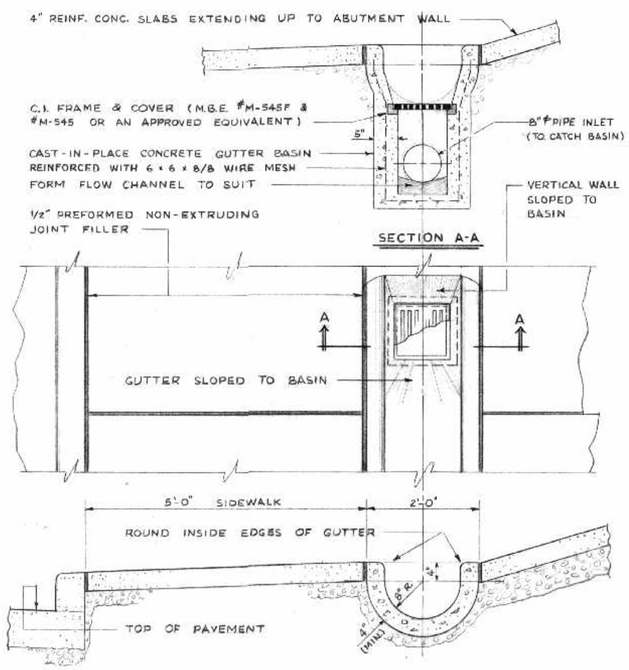


METHOD OF SUPPORTING UTILITIES WHICH ARE TO BE UNDER-MINED



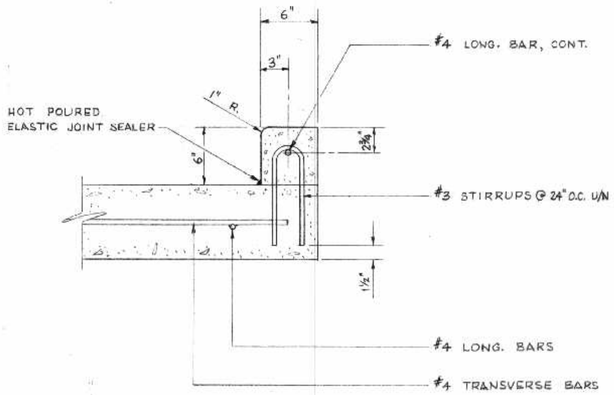
TYPE G1 DETAILS OF CONNECTION BETWEEN CURB INLET & CATCH BASIN IN BOULEVARD

SCALE : 1" = 1'-0"



TYPE G2 DETAILS OF CONCRETE GUTTER & SIDEWALK LOCATED UNDER BRIDGE

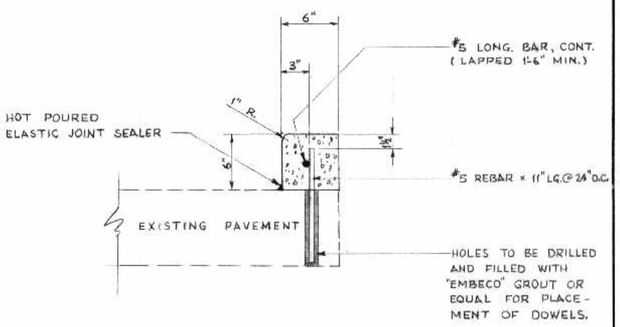
SCALE : 3/4" = 1'-0"



TYPE C1

REINFORCED CONCRETE CURB

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



TYPE C2

REINFORCED CONCRETE CURB

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

AS BUILT ALS FEB/68

#B-5015-48

DEPUTY MINISTER OF PUBLIC WORKS
PROVINCE OF MANITOBA

PROVINCE OF MANITOBA G. SCHULTZ REGISTERED ENGINEER

NO.	DATE	BY	DESCRIPTION

REVISIONS

APPROVED BY

DEPUTY DIRECTOR OF STREETS & TRANSIT

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

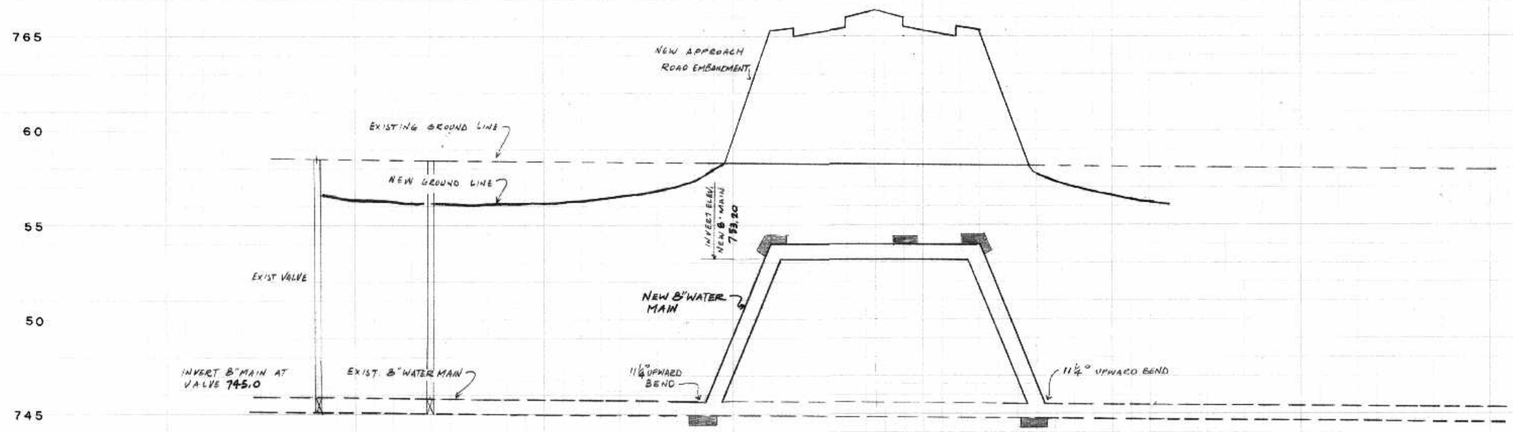
ST. VITAL BRIDGE PROJECT

PROVINCE OF MANITOBA L.D. SAMPSON REGISTERED ENGINEER

DETAILS OF CONCRETE GUTTER, CURB, SUPPORT OF UTILITIES & MISCELLANEOUS PIPE BEDDINGS

T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

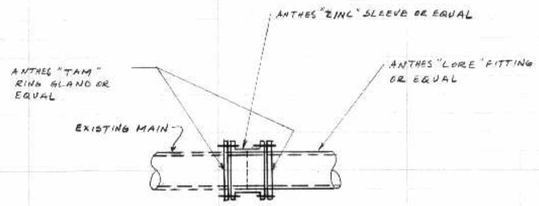
FILE No.	W-1008
DATE	MAR. 1965
SCALE	NOTED
DWN. BY	J.D.H.
CHKD. BY	O.J.S.
DWG. No.	RS-18



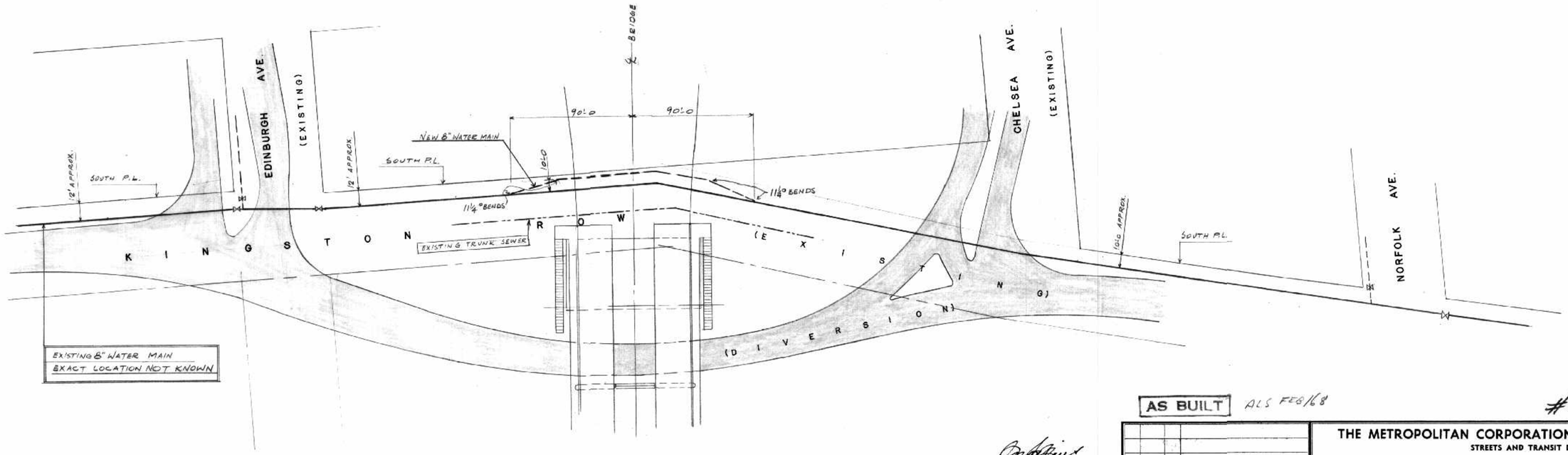
PROFILE OF WATERMAIN

PROVIDE CONC. THRUST BLOCKS AT BENDS SHOWN SHADED
EACH THRUST BLOCK TO BE 1'-0 THK. BY 3 SQ. FT.
THE SHAPE OF THRUST BLOCKS TO BE APPROVED BY THE ENGINEER

SCALES
HOR 1" = 40'-0
VERT 1" = 4'-0



CONNECTION TO EXISTING MAIN



PLAN OF WATERMAIN

AS BUILT ALS FEB/68

#B-5015-49

DEPUTY MINISTER OF HIGHWAYS
PROVINCE OF MANITOBA

PROVINCE OF MANITOBA
G. SCHULTZ
REGISTERED ENGINEER

NO.	DATE	BY	DESCRIPTION

REVISIONS

APPROVED BY
DEPUTY DIRECTOR OF STREETS & TRANSIT

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

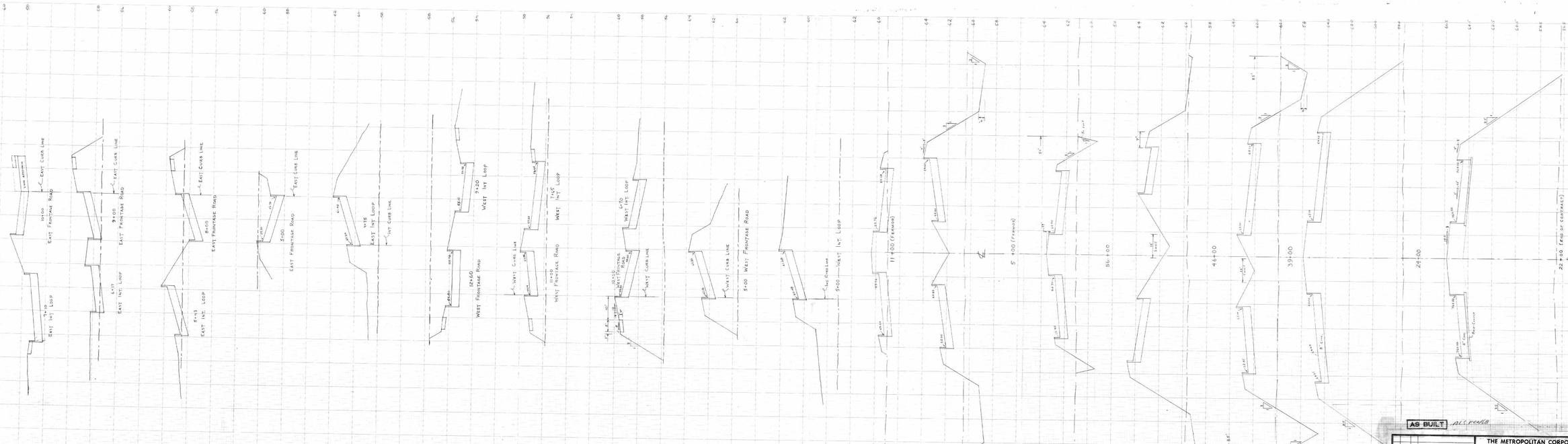
ST. VITAL BRIDGE PROJECT

PROVINCE OF MANITOBA
D.J. SAMPSON
REGISTERED ENGINEER

WATERMAIN RELOCATION
FOR KINGSTON ROW

T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

FILE No.	W-1008
DATE	MAR. 1965
SCALE	1" = 40' 1/16
DWN. BY	G.S.
CHKD. BY	D.J.S.
DWG. No.	RS-19



AS BUILT ALC FEB/88

#B-5015-50

NO	DATE	BY	DESCRIPTION
			REVISIONS

APPROVED BY

DEPUTY DIRECTOR OF STREETS & TRANSIT

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

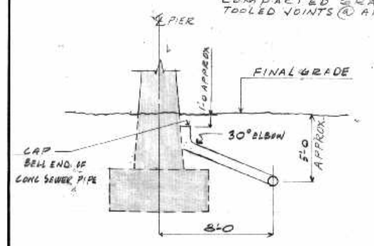
ST. VITAL BRIDGE PROJECT

TYPICAL CROSS SECTIONS OF ROADWAYS

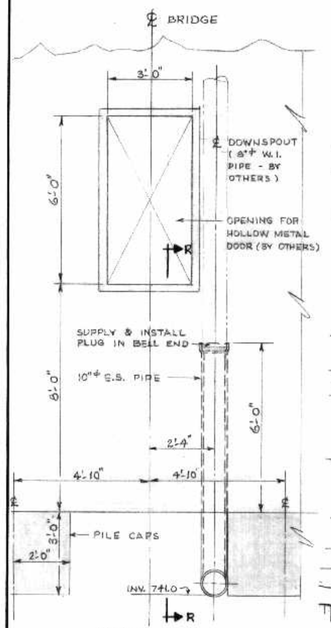
PROVINCE OF MANITOBA D.J. SAMPSON REGISTERED ENGINEER

T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

FILE No.	M-1008
DATE	MAR 1985
SCALE	NOTED
DWN. BY	D.J.T.
CHKD. BY	G.B.
DWG. No.	RS20

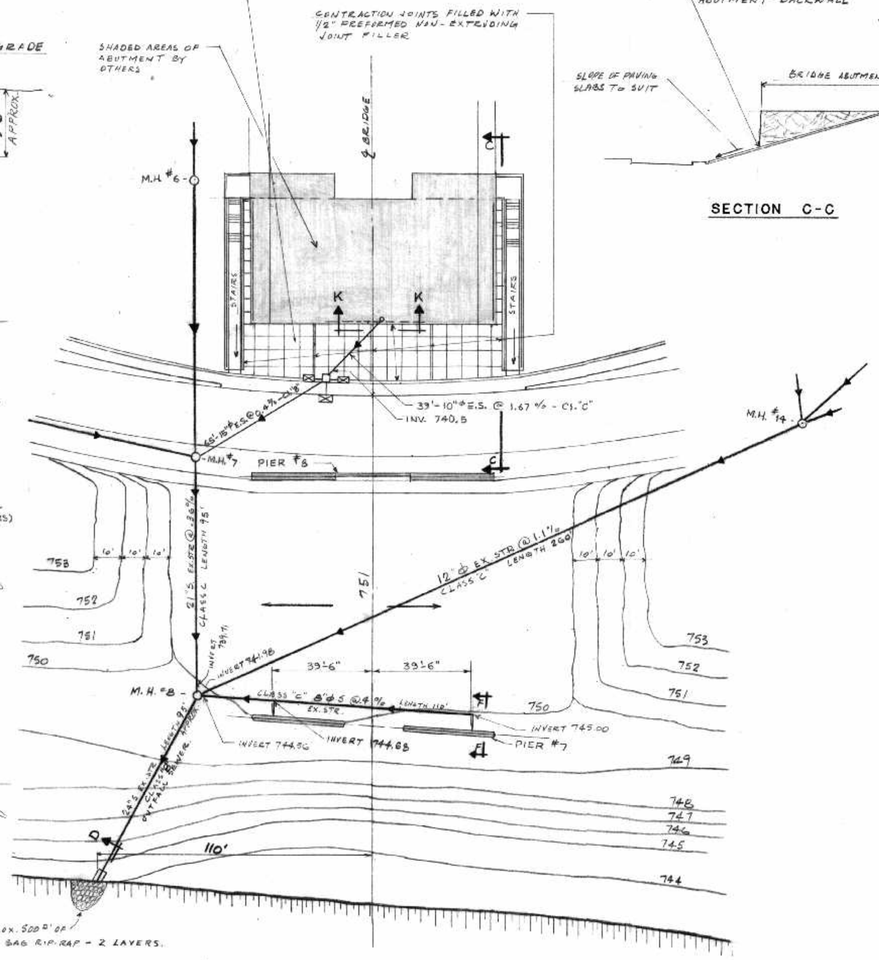


SECTION F-F



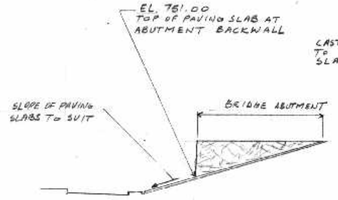
VIEW K-K

SCALE: 3/8" = 1'-0"

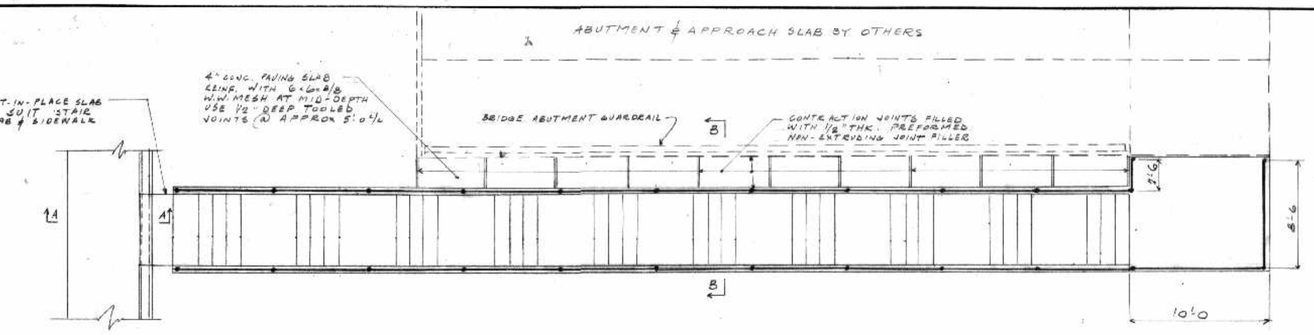


PLAN OF SOUTH ABUTMENT

SCALE 1" = 30'-0

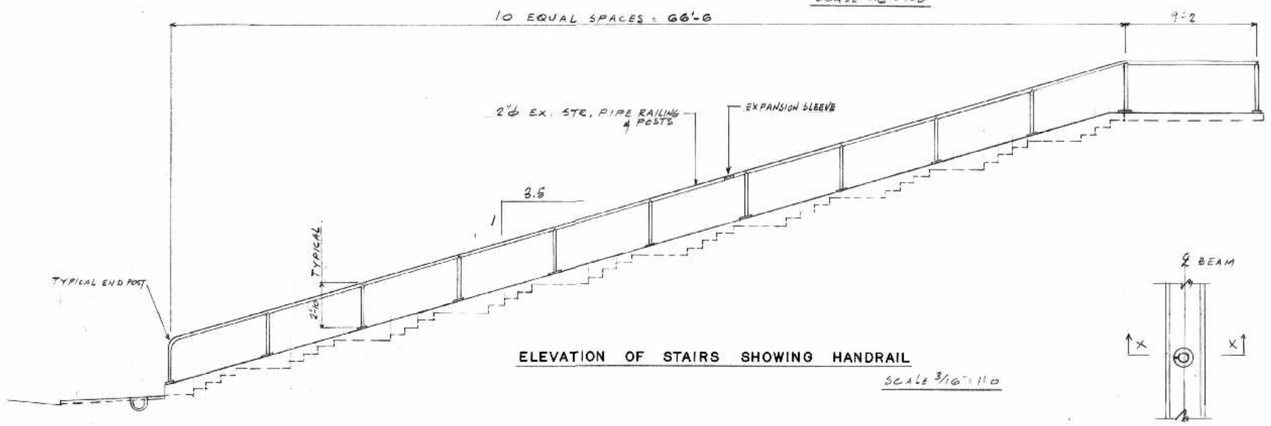


SECTION C-C



PART PLAN OF ABUTMENT SHOWING STAIRS

SCALE 3/16" = 1'-0

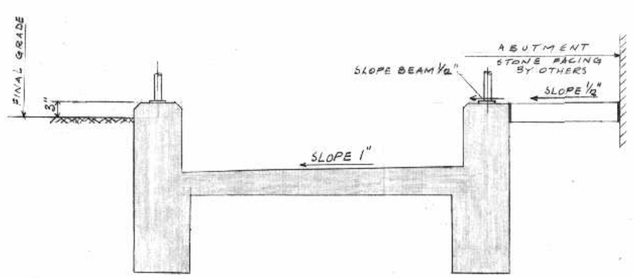


ELEVATION OF STAIRS SHOWING HANDRAIL

SCALE 3/16" = 1'-0

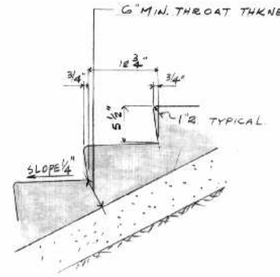
PLAN OF POST BASE

N.T.S.



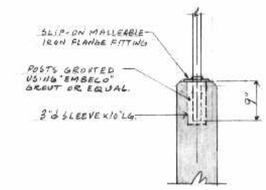
SECTION B-B

SCALE 3/4" = 1'-0



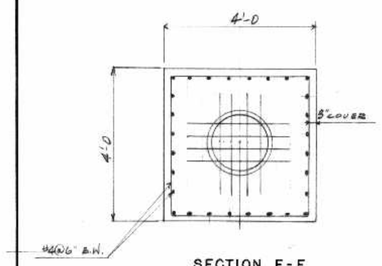
TYPICAL STEP DETAIL

SCALE 1" = 1'-0



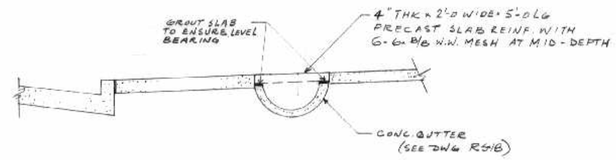
SECTION X-X

N.T.S.



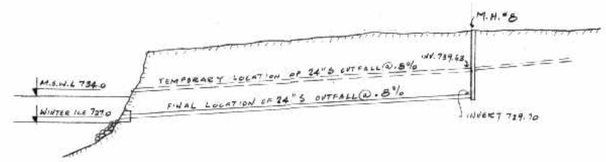
SECTION E-E

SCALE 1/2" = 1'-0



SECTION A-A

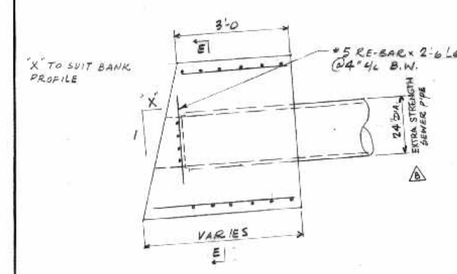
SCALE 3/8" = 1'-0



PROFILE OF OUTFALL SEWER

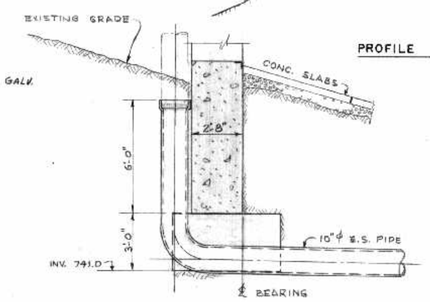
N.T.S.

NOTE FOR POST-TENSIONING DETAILS OF 24" OUTFALL SEWER SEE DWG RS-26



SECTION D-D

SCALE 1/2" = 1'-0



SECTION R-R

SCALE: 1/4" = 1'-0"

AS BUILT

DES FEB/68

#B-5015-51

NO.	DATE	BY	DESCRIPTION
4	Jan.14-69	J.D.H.	SECTION D-D CORRECTED
3	May 31-66	J.D.H.	VIEW K-K & SECTION R-R ADDED

REVISIONS

APPROVED BY

DEPUTY DIRECTOR OF STREETS & TRANSIT

PROVINCE OF MANITOBA — G. SCHULTZ — REGISTERED ENGINEER

PROVINCE OF MANITOBA — D. J. SAMPSON — REGISTERED ENGINEER

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG

STREETS AND TRANSIT DIVISION

ST. VITAL BRIDGE PROJECT

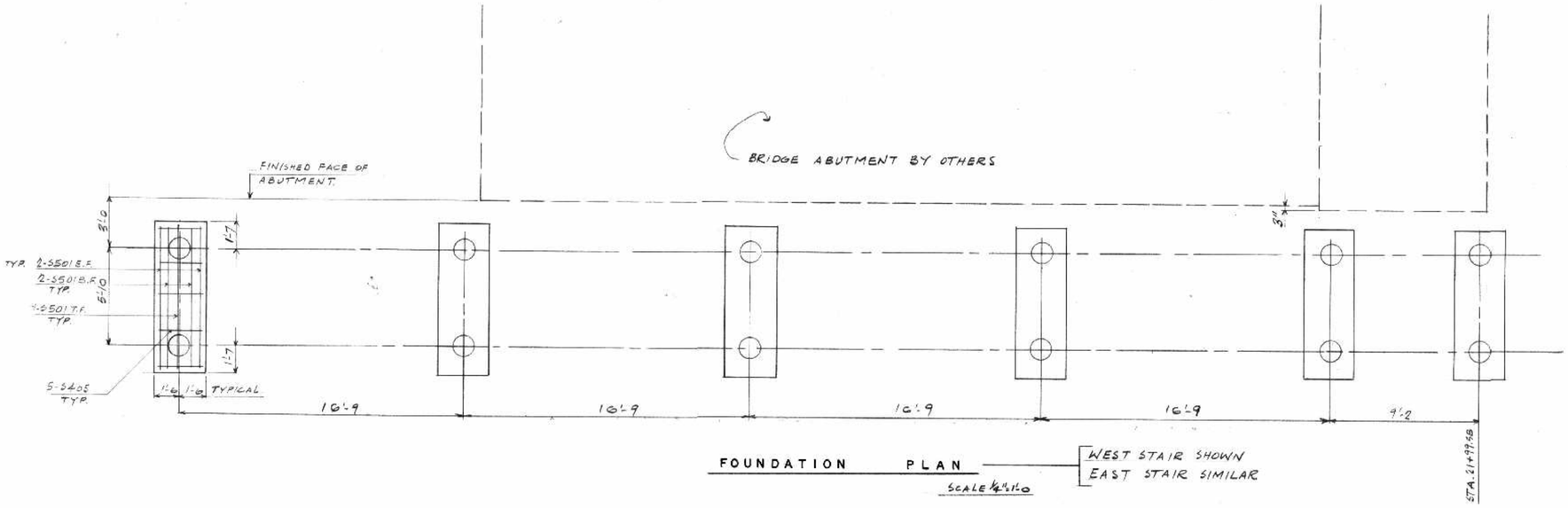
PLAN & DETAILS AT SOUTH ABUTMENT

T. LAMB, McMANUS & ASSOCIATES LTD.

CONSULTING ENGINEERS

EDMONTON CALGARY WINNIPEG

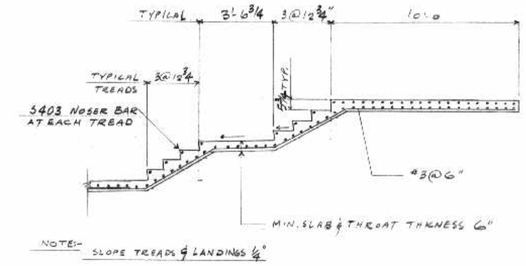
FILE No.	W-1008
DATE	MAR. 1965
SCALE	NOTED
DWN. BY	G.S.
CHKD. BY	D.J.S.
DWG. No.	RS-21



FOUNDATION PLAN

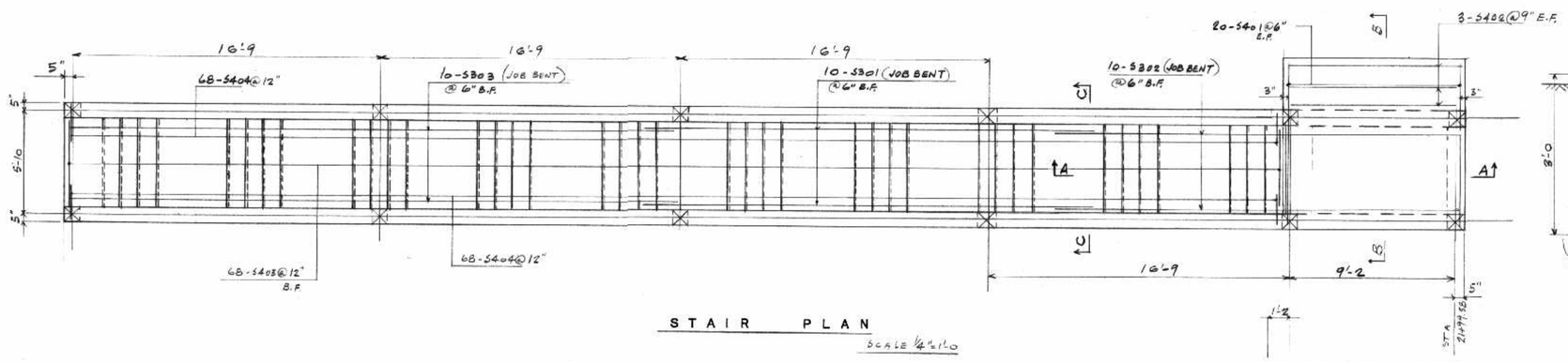
SCALE 1/4"=1'-0

WEST STAIR SHOWN
EAST STAIR SIMILAR



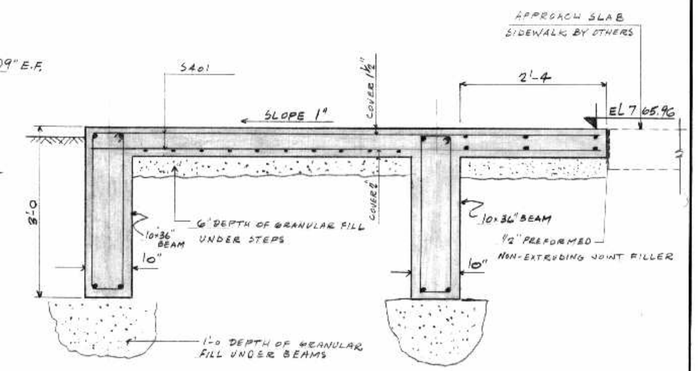
SECTION A-A

SCALE 1/4"=1'-0



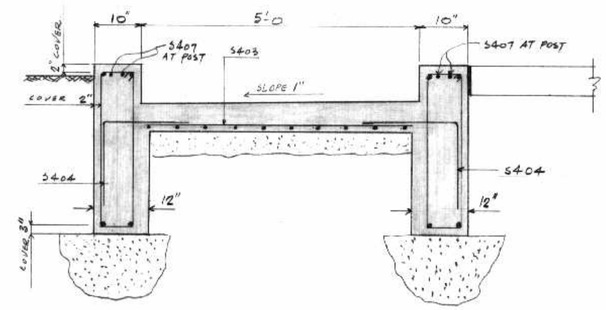
STAIR PLAN

SCALE 1/4"=1'-0



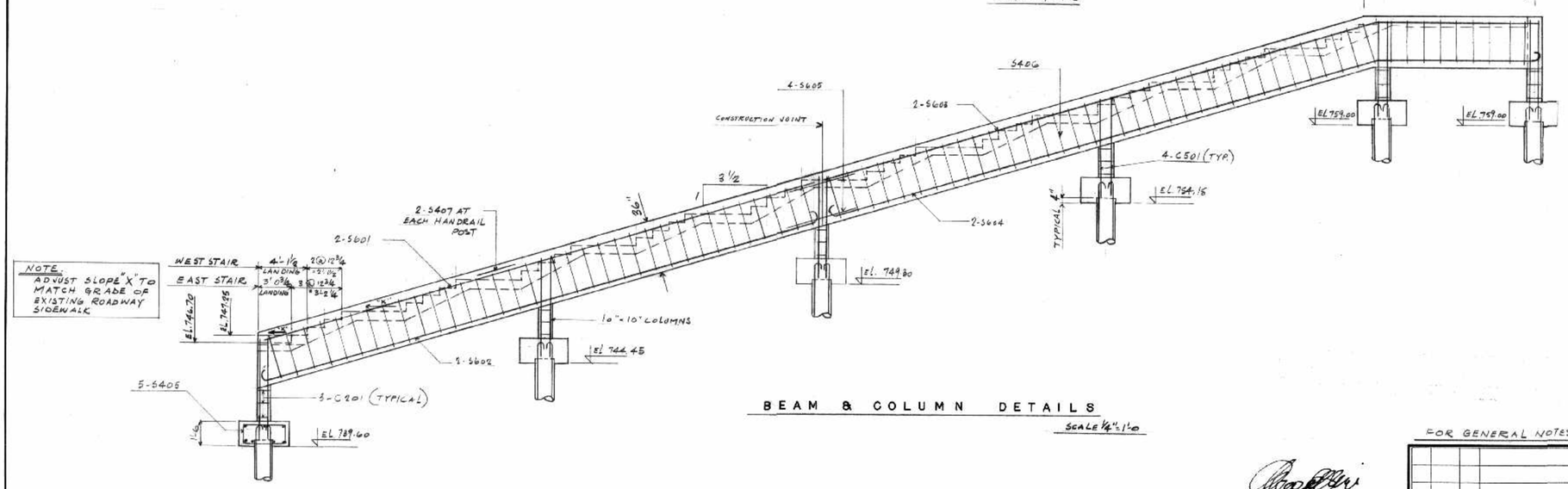
SECTION B-B

SCALE 3/4"=1'-0



SECTION C-C

SCALE 3/4"=1'-0



BEAM & COLUMN DETAILS

SCALE 1/4"=1'-0

NOTE -: ALL PILES TO BE 16"ϕ CAST-IN-PLACE PILES × 24'-0 LG

PILE REINF:
4-#5 VERT - 4-P501
#2 RING 5@24" - P202

FOR GENERAL NOTES SEE DWG RS24

AS BUILT ALS FEB/68 #B-5015-52

NO.	DATE	BY	DESCRIPTION

REVISIONS

APPROVED BY

DEPUTY DIRECTOR OF STREETS & TRANSIT

PROVINCE OF MANITOBA — G. SCHULTZ — REGISTERED ENGINEER

PROVINCE OF MANITOBA — D. J. SAMPSON — REGISTERED ENGINEER

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

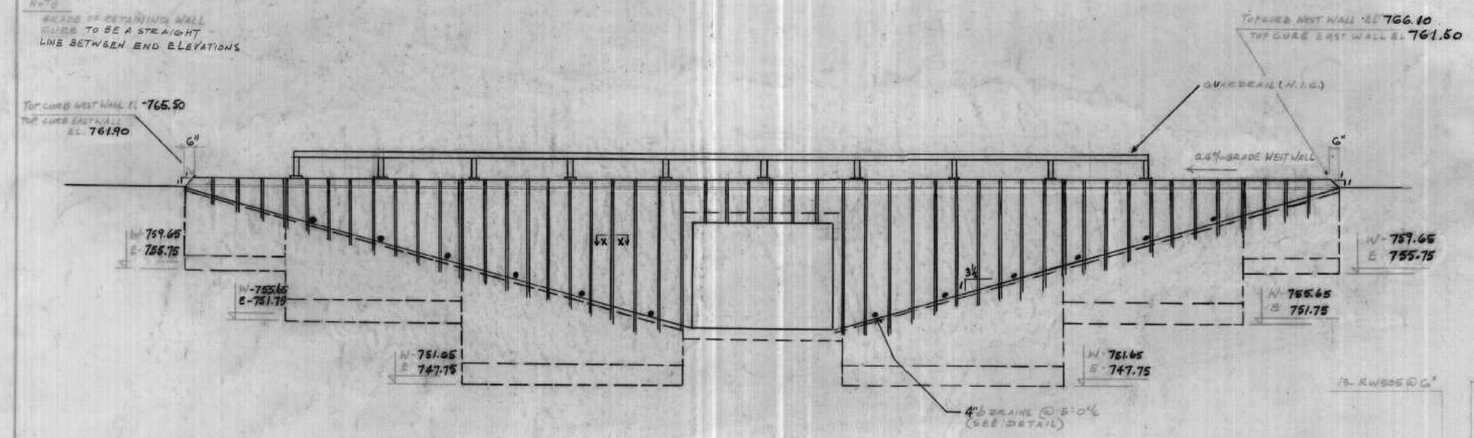
ST. VITAL BRIDGE PROJECT

STRUCTURAL DETAILS OF STAIRS AT SOUTH ABUTMENT

T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

FILE No.	W-1008
DATE	MAR. 1965
SCALE	NOTED
DWN. BY	G.S.
CHKD. BY	D.J.S.
DWG. No.	RS22

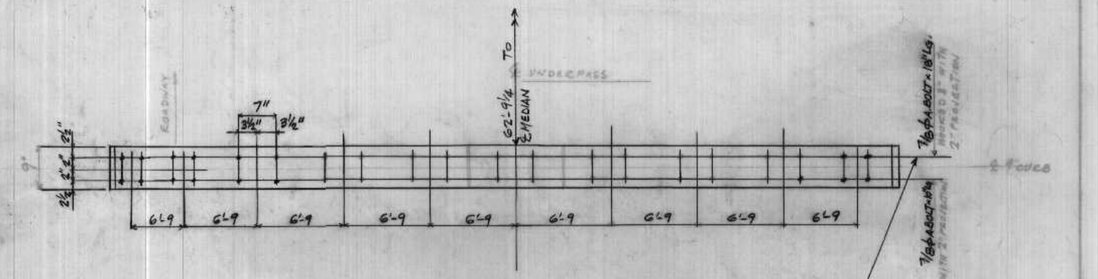
NOTE
GRADE TO RETAINING WALL
SHALL BE TO BE A STRAIGHT
LINE BETWEEN END ELEVATIONS



WEST ELEVATION - RETAINING WALL

EAST ELEVATION SIMILAR

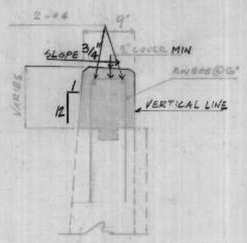
SCALE 3/16"=1'-0



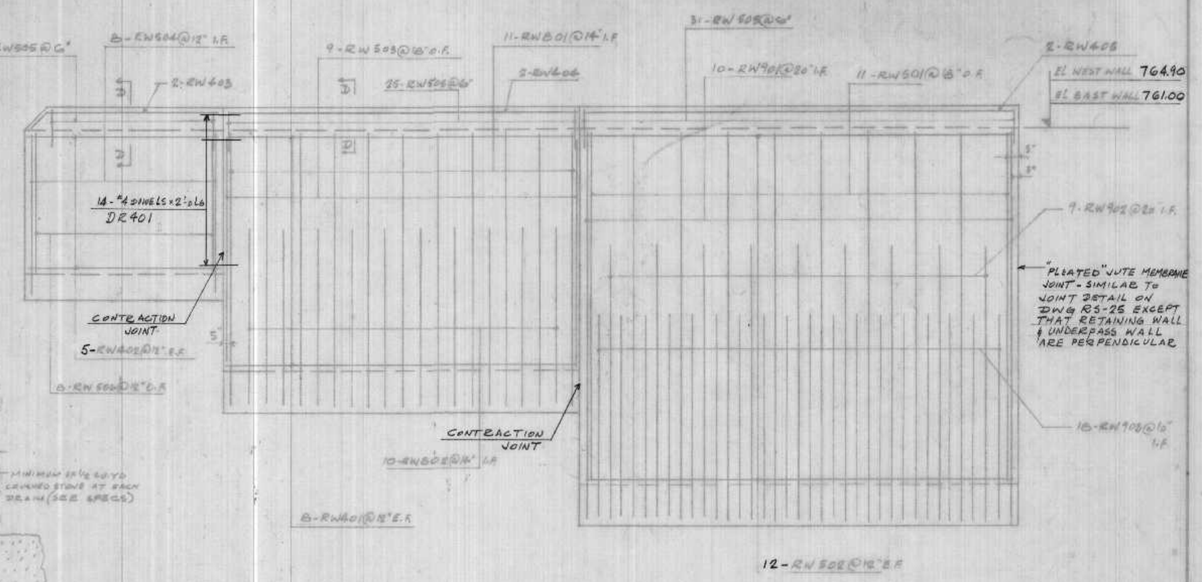
ANCHOR BOLT LAYOUT FOR GUARDRAIL

N.T.S.

ANCHOR BOLTS TO HAVE A GUARANTEED MIN. YIELD STRESS OF 70,000 PSI.

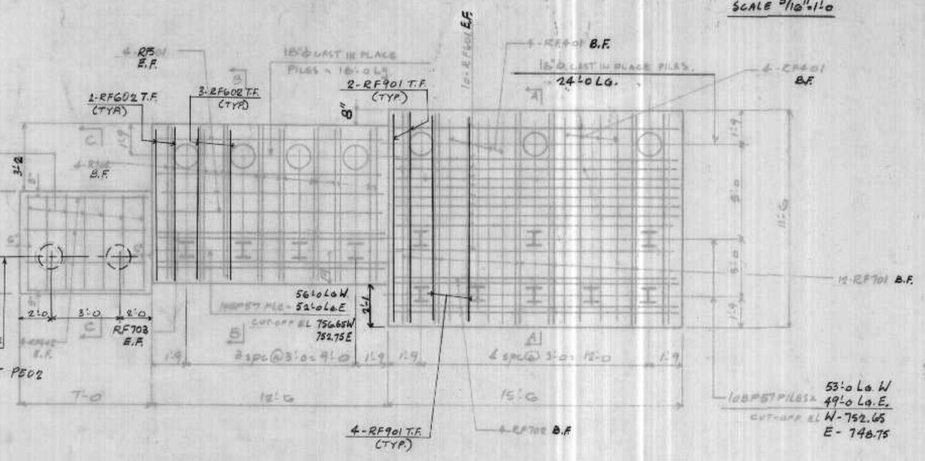


SECTION D-D



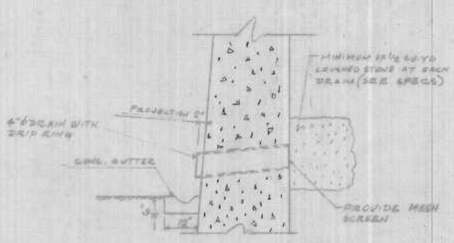
ELEVATION OF WALL SHOWING REINFORCING

SCALE 3/8"=1'-0

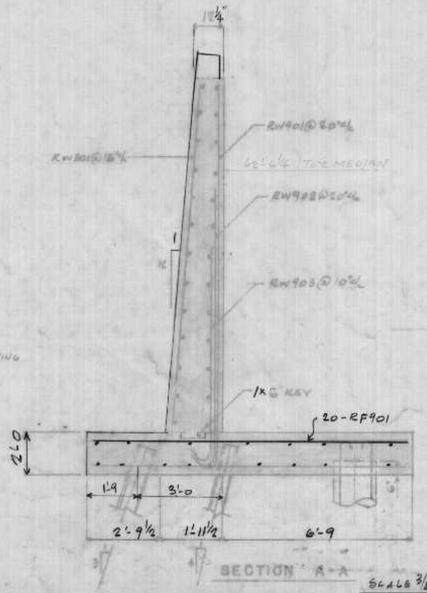


HALF FOOTING PLAN OF RETAINING WALL

SCALE 1/4"=1'-0



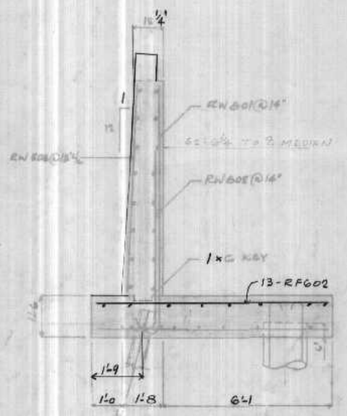
SECTION THROUGH WALL SHOWING DRAINS



NOTE
COVER ON BTM. FOOTING STEEL TO BE 3"

SECTION A-A

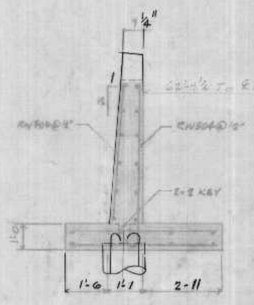
SCALE 3/8"=1'-0



SECTION B-B

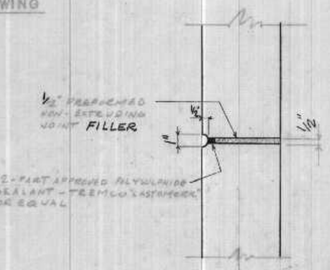
SCALE 3/8"=1'-0

REINF. FOR PILINGS:
4-#6 VERT P601 FOR 24'-0 Lg PILES
4-#8 VERT P806 FOR 16'-0 Lg PILES
STIRPS - #2 @ 24" o/c P201

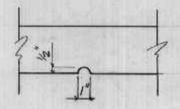


SECTION C-C

SCALE 3/8"=1'-0



DETAIL OF TYPICAL CONTRACTION JOINT IN RETAINING WALL



SECTION X-X

TYPICAL SECTION FOR VERTICAL SERRATED LINES @ 18" o/c APPROX. (LINES TO EXTEND A MIN. OF 2'-0 BELOW FINAL GRADE)

FOR GENERAL NOTES SEE DWG RS24

AS BUILT

ALS FEB/18

#B-5015-53

DEPUTY MINISTER OF PUBLIC WORKS
PROVINCE OF MANITOBA

PROVINCE OF MANITOBA
G. SCHULTZ
REGISTERED ENGINEER

NO	DATE	BY	DESCRIPTION
A	July 9, 1965	GS	B-16"ϕ C.I.P. PILES - 15'-0 ADDED #4 DOWELS ADDED - DR401

REVISIONS

APPROVED BY

DEPUTY DIRECTOR OF STREETS & TRANSIT

PROVINCE OF MANITOBA
D. J. SAMPSON
REGISTERED ENGINEER

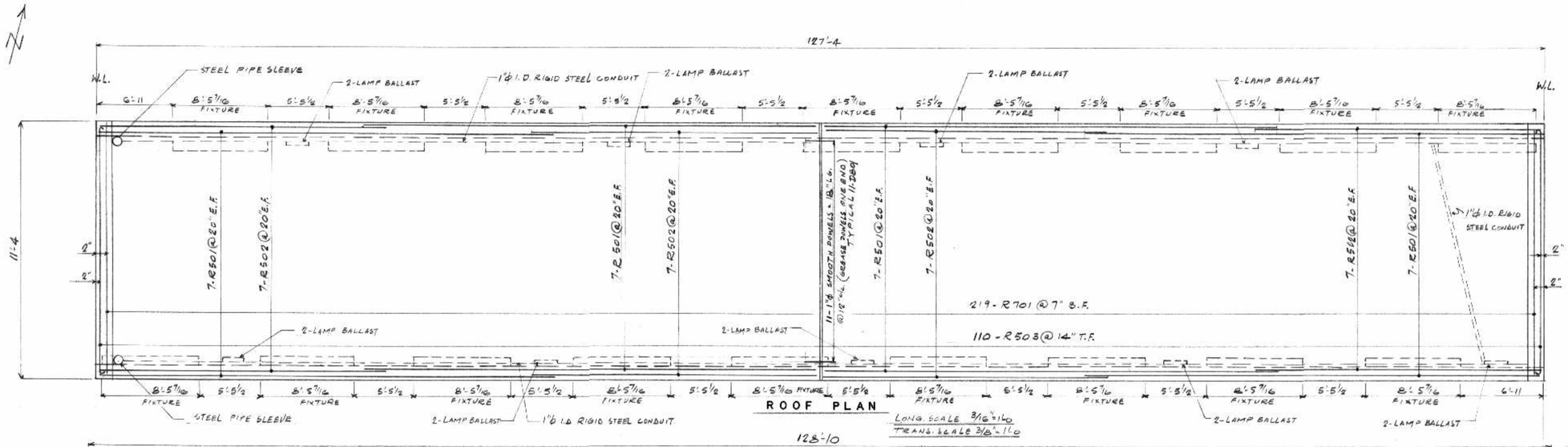
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

ST. VITAL BRIDGE PROJECT

RETAINING WALLS
FOR PEDESTRIAN UNDERPASS

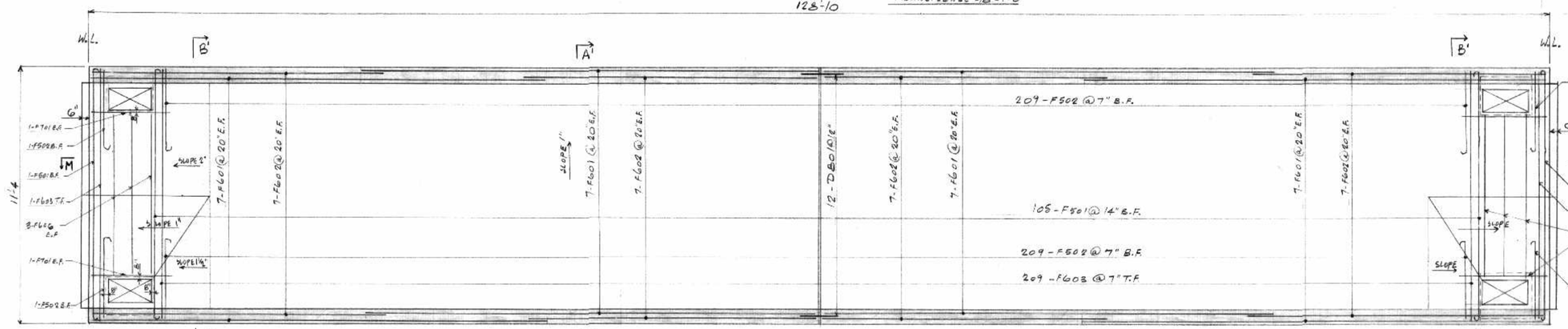
T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

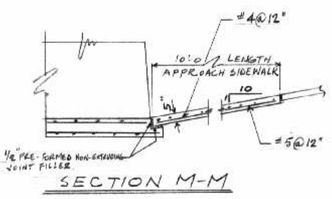
FILE No.	W-1008
DATE	MAR. 1965
SCALE	NOTED
DWN. BY	G.S.
CHKD. BY	D.J.S.
DWG No.	RS23

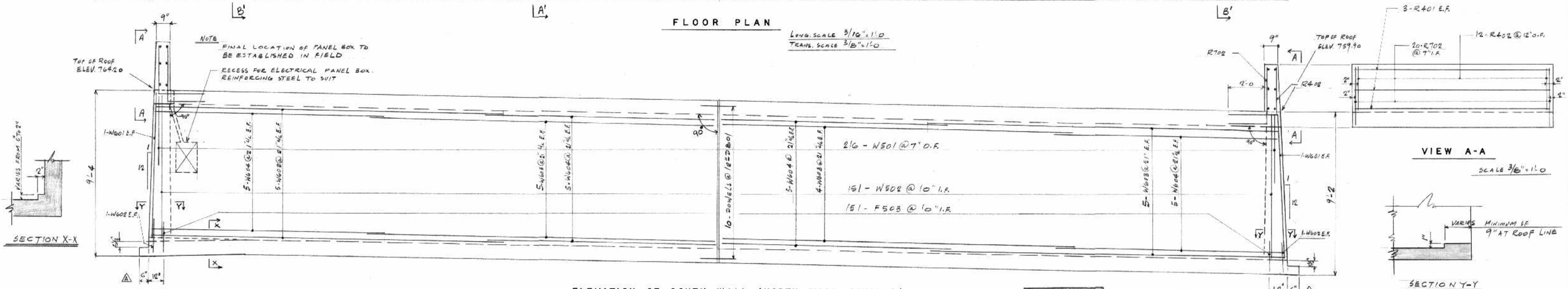


GENERAL NOTES

- CONCRETE TO HAVE 3750 PSI CYLINDER STRENGTH @ 28 DAYS & TO BE OF SULPHATE RESISTING CEMENT.
- REINFORCING TO BE INTERMEDIATE GRADE STEEL.
- ALL EXPOSED EDGES TO BE CHAMFERED 1"
- FOR ANCHOR BOLT LAYOUT FOR GUARDRAIL SEE DWG RS23
- 3" COVER TO BTM STEEL IN FLOOR OF UNDERPASS & 2" COVER TO ALL OTHER STEEL.
- ABBREVIATIONS USED ON DWGS & RE-BAR SCHEDULES:-
  - E.F. — EACH FACE
  - B.F. — BOTTOM FACE
  - T.F. — TOP FACE
  - I.F. — INSIDE FACE
  - O.F. — OUTSIDE FACE
- LAP ALL LONG BARS MIN OF 2'-0
- WIRE GUARD FOR FIXTURES TO BE CONTINUOUS ALONG LENGTH OF UNDERPASS.

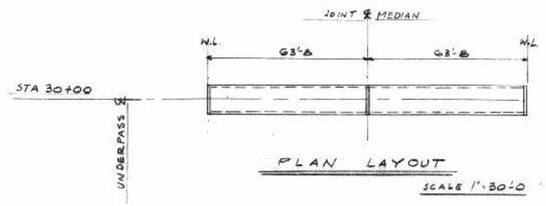


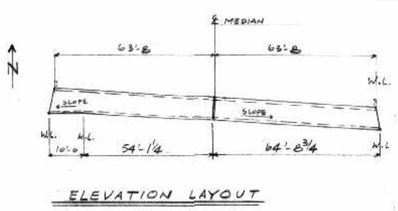




AS BUILT ALS FEB/68

#B-5015-54





DEPUTY MINISTER OF PUBLIC WORKS PROVINCE OF MANITOBA

PROVINCE OF MANITOBA — B. SCHULTZ — REGISTERED ENGINEER

NO.	DATE	BY	DESCRIPTION
A	MAY 31-68	ABM	"ELEVATION OF S-WALL" CORRECTED

REVISIONS

APPROVED BY

DEPUTY DIRECTOR OF STREETS & TRANSIT

PROVINCE OF MANITOBA — D. J. SAMPSON — REGISTERED ENGINEER

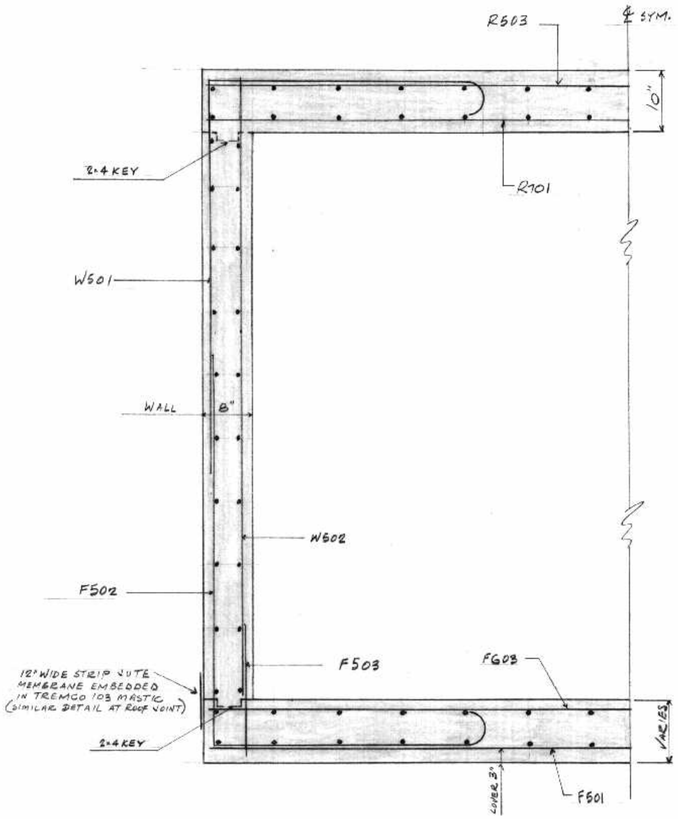
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

ST. VITAL BRIDGE PROJECT

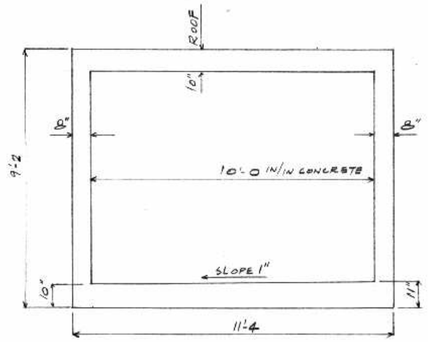
PEDESTRIAN UNDERPASS
LAYOUT AND
REINFORCING

T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

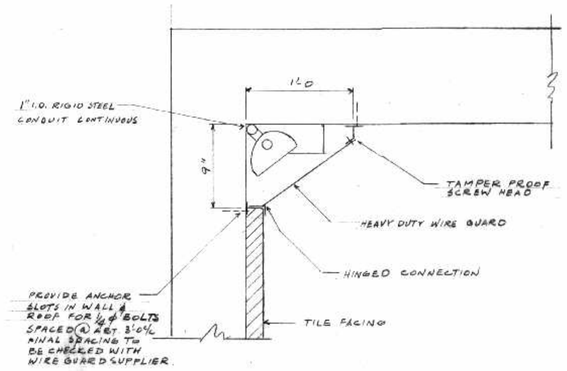
FILE No.	W-1008
DATE	MAR. 1965
SCALE	NOTED
DWN. BY	G.B.
CHKD. BY	D.J.S.
DWG. No.	RS-24



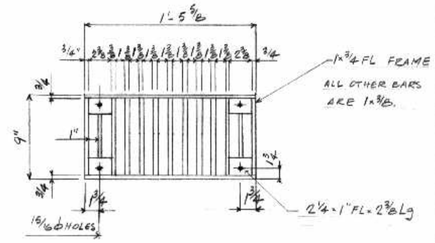
SECTION OF UNDERPASS
SHOWING REINFORCING
SCALE: 1" = 1'-0



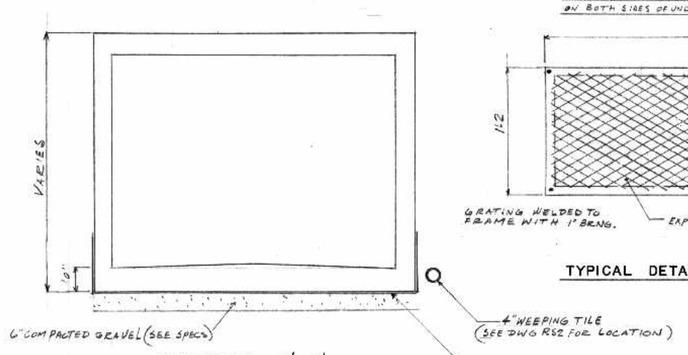
SECTION A'-A'
SCALE: 3/8" = 1'-0



DETAIL OF TYPICAL LIGHT FIXTURE

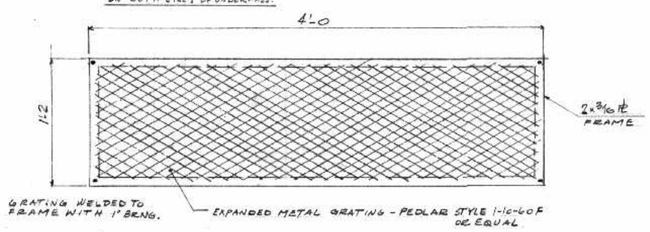


WELDED FLOOR DRAIN COVER
SCALE: 1 1/2" = 1'-0

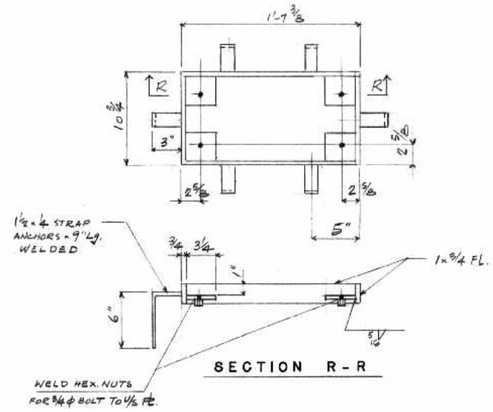


SECTION B'-B'
SCALE: 3/8" = 1'-0

NOTE
WIRE GUARD TO RUN CONTINUOUS ON BOTH SIDES OF UNDERPASS.

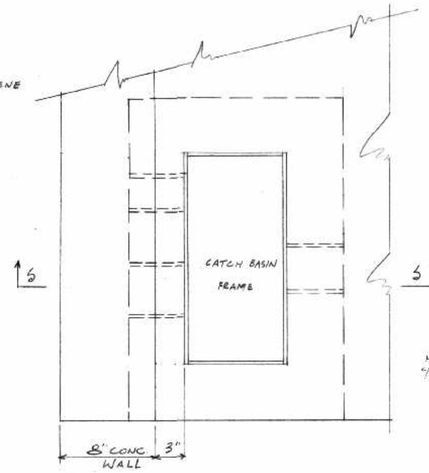


TYPICAL DETAIL OF WIRE GUARD FOR LIGHT FIXTURE

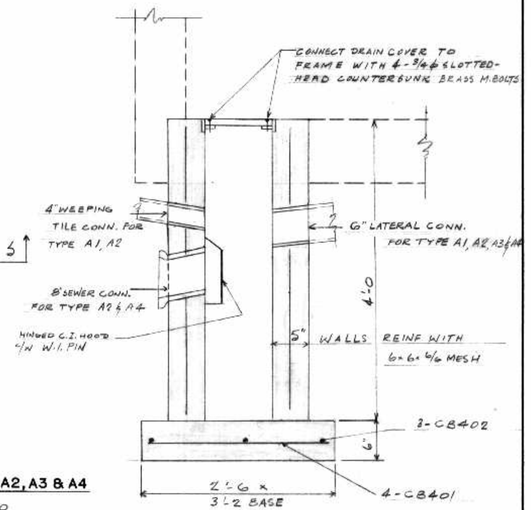


SECTION R-R

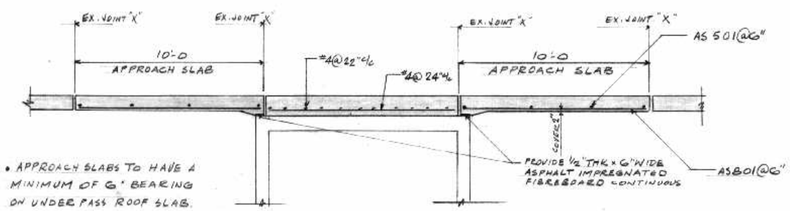
WELDED CATCH BASIN FRAME
SCALE: 1 1/2" = 1'-0



PLAN OF CATCH BASINS - TYPE A1, A2, A3 & A4
SCALE 1½" = 1'-0

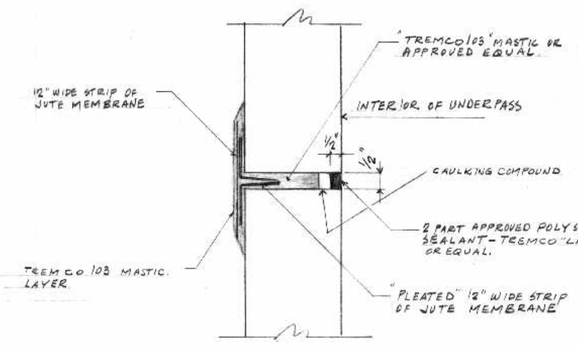


SECTION S-S



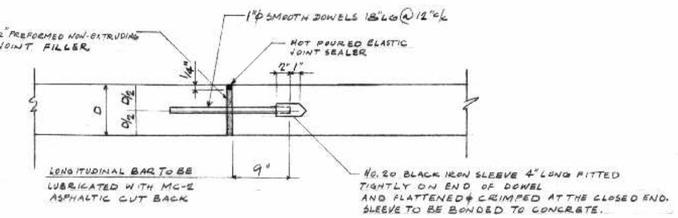
- APPROACH SLABS TO HAVE A MINIMUM OF 6" BEARING ON UNDER PASS ROOF SLAB.
- EXTERIOR SURFACE OF ROOF SLAB TO BE ROUGHENED TO RECEIVE PAVING SLAB.

SECTION X-X (SEE DRAWING #RS-1) △
SCALE: 1/4" = 1'-0



DETAIL OF WALL & ROOF JOINTS
FOR UNDERPASS

NOTE
FLOOR JOINT OF UNDERPASS SAME AS ABOVE EXCEPT JUTE MEMBRANE & MASTIC APPLICATION ON EXTERIOR NOT INCLUDED.



DETAIL OF EXPANSION JOINT "X"
SCALE: 1" = 1'-0

DEPUTY MINISTER OF PUBLIC WORKS
PROVINCE OF MANITOBA

PROVINCE OF MANITOBA
G. SCHULTZ
REGISTERED ENGINEER

FOR GENERAL NOTES SEE DWG RS24

AS BUILT ALS FEB/68 #B-5015-55

NO.	DATE	BY	DESCRIPTION
△	June 14-68	J.D.H.	SECTION X-X REFERENCED

REVISIONS

APPROVED BY
DEPUTY DIRECTOR OF STREETS & TRANSIT

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

ST. VITAL BRIDGE PROJECT

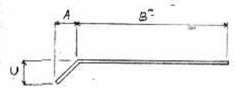
PEDESTRIAN UNDERPASS
CROSS SECTION & DETAILS

PROVINCE OF MANITOBA
D. J. SAMPSON
REGISTERED ENGINEER

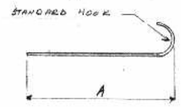
T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

FILE No.	W-1008
DATE	MAR. 1965
SCALE	NOTED
DWN. BY	G.S.
CHKD. BY	D.J.S
DWG. No.	RS25

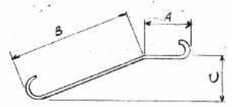
MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	WT. BAR	TOTAL WT.
			UNDERPASS REINFORCING										
R401	#4	12	11'-0	STR								7.3	87.6
R402	#4	24	4'-0	G	1'-6	2'-6						2.7	64.8
R501	#5	56	40'-0	STR.								41.7	2335.2
R502	#5	56	25'-4	STR								26.5	1484.0
R503	#5	110	11'-0	STR.								11.5	1265.0
R701	#7	219	11'-0	STR								22.5	4927.5
R702	#7	40	4'-4	G	2'-2	2'-2						9.0	360.0
F501	#5	107	11'-0	STR								11.5	1230.5
F502	#5	422	9'-2	F	5'-1	3'-6						9.6	4051.2
F503	#5	302	2'-0	STR								2.1	634.2
F601	#6	56	40'-0	STR								60.1	3366.6
F602	#6	56	20'-0	STR								39.1	2189.6
F603	#6	211	11'-0	STR								16.5	3481.5
F606	#6	12	6'-6	STR								9.9	118.8
F701	#7	8	2'-6	STR								5.3	42.4
W501	#5	432	9'-2	F	5'-1	3'-6						9.6	4147.2
W502	#5	302	8'-0	STR								8.3	2506.6
W601	#6	8	8'-0	STR.								12.0	96.0
W602	#6	8	2'-0	STR.								3.0	24.0
W603	#6	40	40'-0	STR.								60.1	2404.0
W604	#6	40	25'-4	STR.								38.2	1528.0
D801	#8	43	1'-6	STR	PLAIN BARS							4.3	184.9
			RETAINING WALL REINFORCING										
P201	#2	288	4'-2	D	1'-2	6"						.70	201.6
P601	#6	48	24'-8	C	24'-0							37.2	1785.6
P602	#6	64	18'-8	C	18'-0							28.2	1804.8
RF401	#4	32	11'-0	STR								7.3	233.6
RF402	#4	32	6'-6	STR								4.4	140.8
RF501	#5	32	12'-0	STR								12.5	400.0
RF502	#5	56	5'-0	STR.								5.2	291.2
RF601	#6	80	15'-0	STR								22.5	1800.0
RF602	#6	52	8'-0	STR.								12.0	624.0
RF701	#7	48	11'-0	STR.								22.5	1080.0
RF702	#7	16	15'-0	STR.								30.7	491.2
RF703	#7	32	12'-0	STR.								24.5	784.0
RF704	#7	128	8'-0	STR.								16.4	2099.2
RF901	#9	80	11'-0	STR.								37.4	2992.0
RW401	#4	64	12'-0	STR								8.0	512.0
RW402	#4	40	6'-6	STR								4.4	176.0
RW403	#4	8	7'-0	A	8"	6'-2	6"					4.7	37.6
RW404	#4	6	12'-0	STR								8.0	48.0
RW405	#4	8	15'-0	STR								10.0	80.0
RW501	#5	44	11'-0	STR								11.5	506.0
RW502	#5	96	15'-0	STR.								15.6	1497.6
RW503	#5	36	7'-6	STR.								7.9	284.4
RW504	#5	32	5'-5	C	4'-10							5.7	182.4
RW505	#5	276	4'-5	B	2'-0	5"						4.7	1297.2
RW506	#5	32	4'-0	STR								4.2	134.4
RW801	#8	44	9'-10	C	8'-9							24.3	1069.2
RW802	#8	40	7'-1	C	6'-0							19.0	760.0
RW901	#9	40	14'-0	C	12'-9							47.6	1904.0
RW902	#9	36	10'-9	C	9'-6							37.1	1335.6
RW903	#9	72	8'-3	C	7'-0							28.2	2030.4
			APPROACH SLABS										
ASB01	#8	300	9'-6	STR								25.6	7680.0
ASS01	#5	80	37'-0	STR								38.6	3088.0



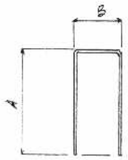
TYPE A



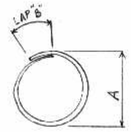
TYPE C



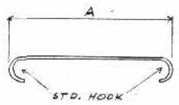
TYPE J



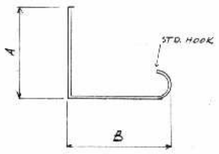
TYPE B



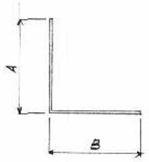
TYPE D



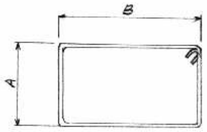
TYPE E



TYPE F

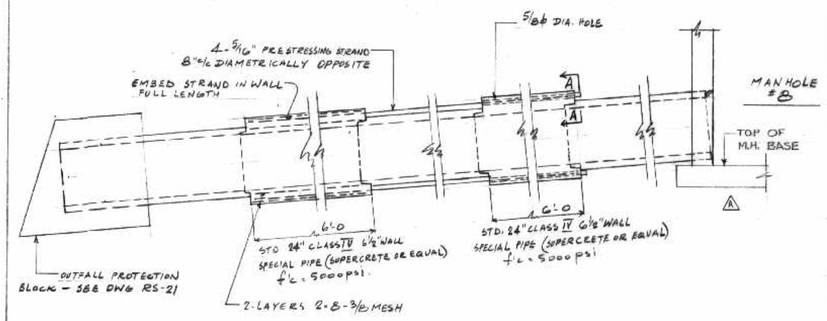


TYPE G.



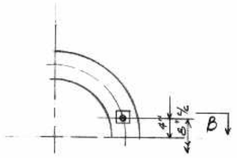
TYPE H

MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	WT. BAR	TOTAL WT.	
			CATCH BASINS A1, A2, A3 & A4											
CB401	#4	16	2'-1	STR.								1.4	22.4	
CB402	#4	12	2'-10	STR.								1.4	16.8	
			STAIRS AT S OUTH ABUTMENT											
S301	#3	20	30'-0	STR.								11.3	226.0	
S302	#3	20	26'-0	STR.								9.8	196.0	
S303	#3	20	42'-0	STR.								15.8	316.0	
S401	#4	80	8'-8	STR.								5.9	472.0	
S402	#4	12	9'-6	STR.								6.4	76.8	
S403	#4	213	4'-10	STR								2.7	575.1	
S404	#4	272	3'-0	G	1'-6	1'-6						2.0	544.0	
S405	#4	60	8'-6	H	1'-2	2'-8						5.7	342.0	
S406	#4	308	7'-2	H	6"	2'-8						4.8	478.4	
S407	#4	100	2'-0	STR.								1.3	130.0	
S501	#5	84	8'-6	STR								9.0	756.0	
S601	#6	8	35'-0	STR.								52.6	420.8	
S602	#6	8	36'-4	E	35'-0							54.7	437.6	
S603	#6	8	44'-2	A	32'-4	10'-6	9'-3					66.4	531.2	
S604	#6	8	44'-9	J	9'-9	34'-4						67.4	539.2	
S605	#6	16	4'-0	STR.								6.0	96.0	
C201	#2	72	2'-7	H	6"	6"						.45	32.4	
C601	#5	96	5'-8	STR.								6.0	576.0	
P502	#5	32	15'-0	C	14'-5							15.6	499.2	B
P501	#5	96	25'-0	C	24'-5							26.1	2505.6	
P202	#2	352	3'-8	D	12"	6"						.6	211.2	B
DR401	#4	56	2'-0	STR								1.3	72.8	B
											TOTAL		84,952.9	B



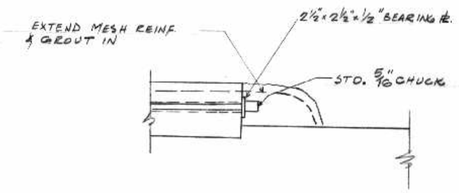
PROFILE OF 24" OUTFALL SEWER SHOWING POST-TENSIONING DETAILS

N.T.S

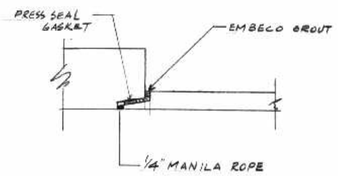


SECTION A-A

N.T.S



SECTION B-B



PIPE JOINT DETAIL

TOTAL WT. REINF FOR OVERHEAD SIGN BASES - 6400# APPROX.
TOTAL WT. REINF OUTFALL BLOCK - 150# APPROX.
TOTAL WT. REINF FOR SLAB OVER PED. UNDERPASS & APPROACH SIDEWALK SLABS - 890# APPROX.

PROVINCE OF MANITOBA — G. SCHULTZ — REGISTERED ENGINEER

DEPUTY MINISTER OF PUBLIC WORKS PROVINCE OF MANITOBA

AS BUILT ALS FEB/68 #B-5015-56

NO	DATE	BY	DESCRIPTION
B	July 9 1965	GS	REINF DR401 ADDED. INCREASED PR502 & PS502
A	May 19 1965		OUTFALL SEWER M.H. BASE

REVISIONS

APPROVED BY

DEPUTY DIRECTOR OF STREETS & TRANSIT

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

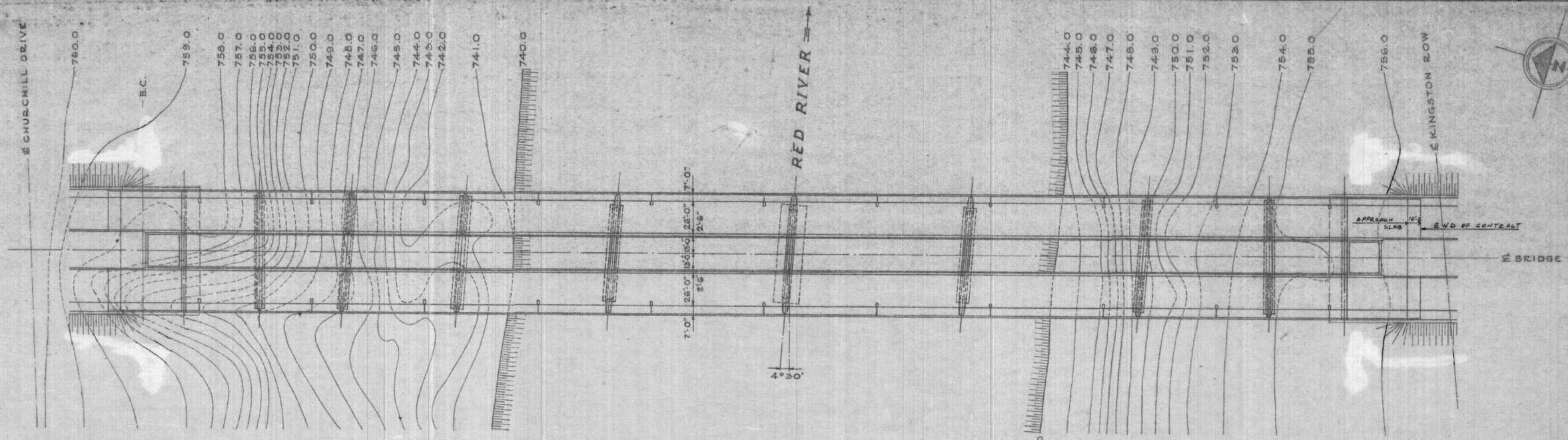
ST. VITAL BRIDGE PROJECT

PROVINCE OF MANITOBA — D. J. SAMPSON — REGISTERED ENGINEER

REINFORCING SCHEDULE

T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

FILE No.	W-1008
DATE	MAR. 1965
SCALE	NOTED
DWN. BY	G.S.
CHKD. BY	D.J.S.
DWG. No.	RS26

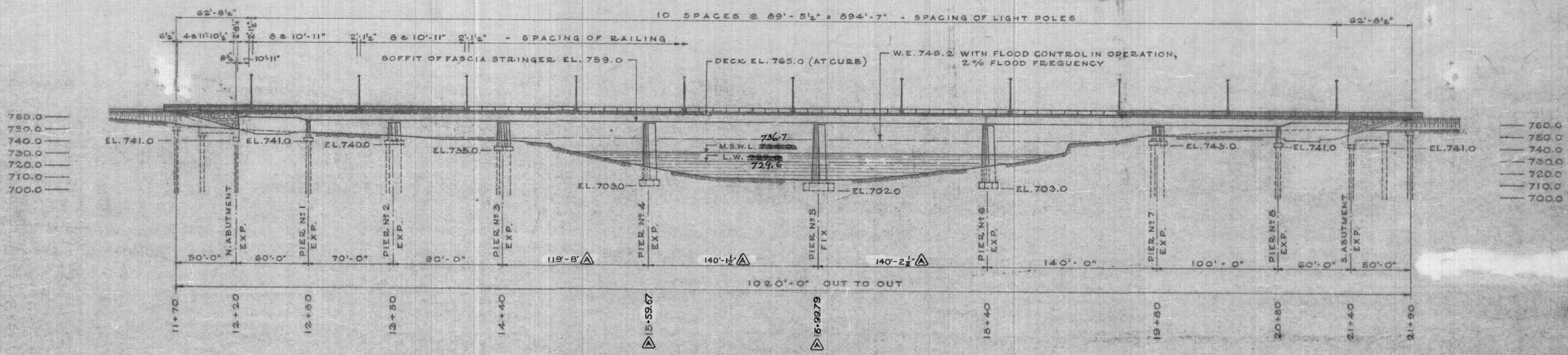


PLAN

SCALE : 1" = 40'-0"

NOTE

CONTOUR LINES SHOWN ON THIS DWG WERE EXISTING BEFORE CONSTRUCTION OF BRIDGE SUBSTRUCTURE. FOR PRESENT EXISTING CONTOURS SEE DWG. RS-21



ELEVATION

SCALE : 1" = 40'-0"

AS BUILT ALS FEB/68

#B-5015-57

DEPUTY MINISTER OF PUBLIC WORKS PROVINCE OF MANITOBA

PROVINCE OF MANITOBA D. J. SAMPSON REGISTERED ENGINEER

NO	DATE	BY	DESCRIPTION
A	FEB/68	H.B.	CHAINAGES OF PIERS 4 & 5 REV'D

REVISIONS

APPROVED BY

DEPUTY DIRECTOR OF STREETS & TRANSIT

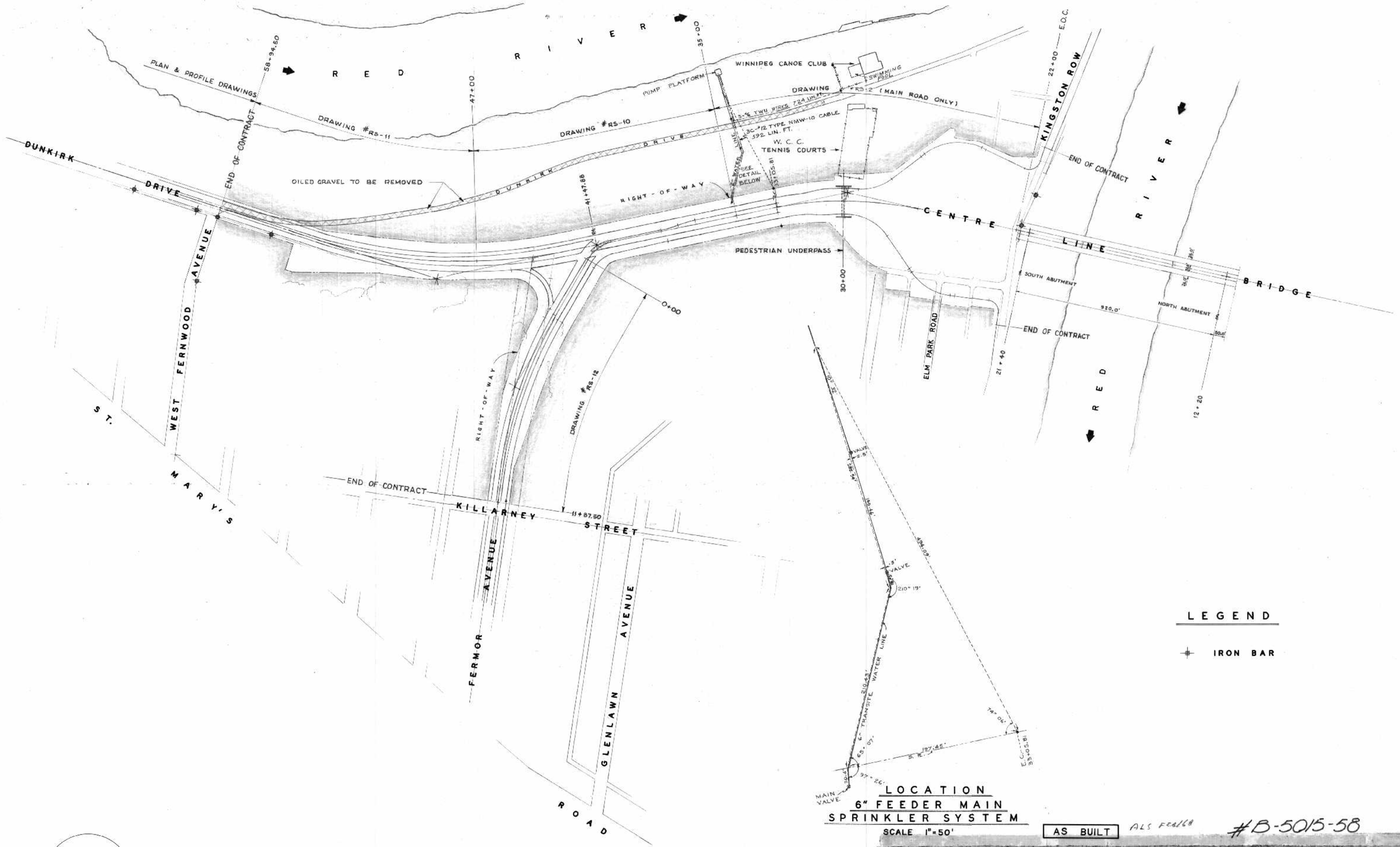
THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

ST. VITAL BRIDGE PROJECT

BRIDGE
PLAN AND ELEVATION

T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

FILE No.	W-1008
DATE	MAR. 1965
SCALE	1" = 40'-0"
DWN. BY	A.V.S.
CHKD. BY	
DWG. No.	RS-27



LOCATION
6" FEEDER MAIN
SPRINKLER SYSTEM
SCALE 1"=50'

AS BUILT ALS FEEDER #B-5015-58

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRANSIT DIVISION

ST. VITAL BRIDGE PROJECT

GENERAL INFORMATION
SOUTH ROADWAYS

T. LAMB, McMANUS & ASSOCIATES LTD.
CONSULTING ENGINEERS
EDMONTON CALGARY WINNIPEG

FILE No.	W-1008
DATE	APR. 1965
SCALE	1" = 200'
DWN. BY	J.D.H.
CHKD. BY	D.J.S.