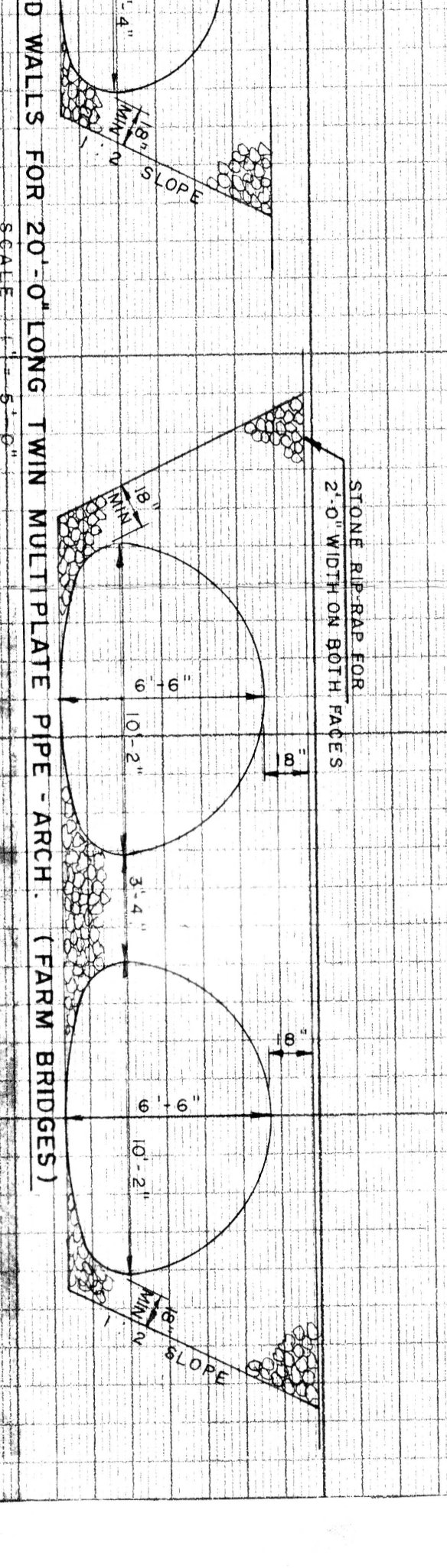
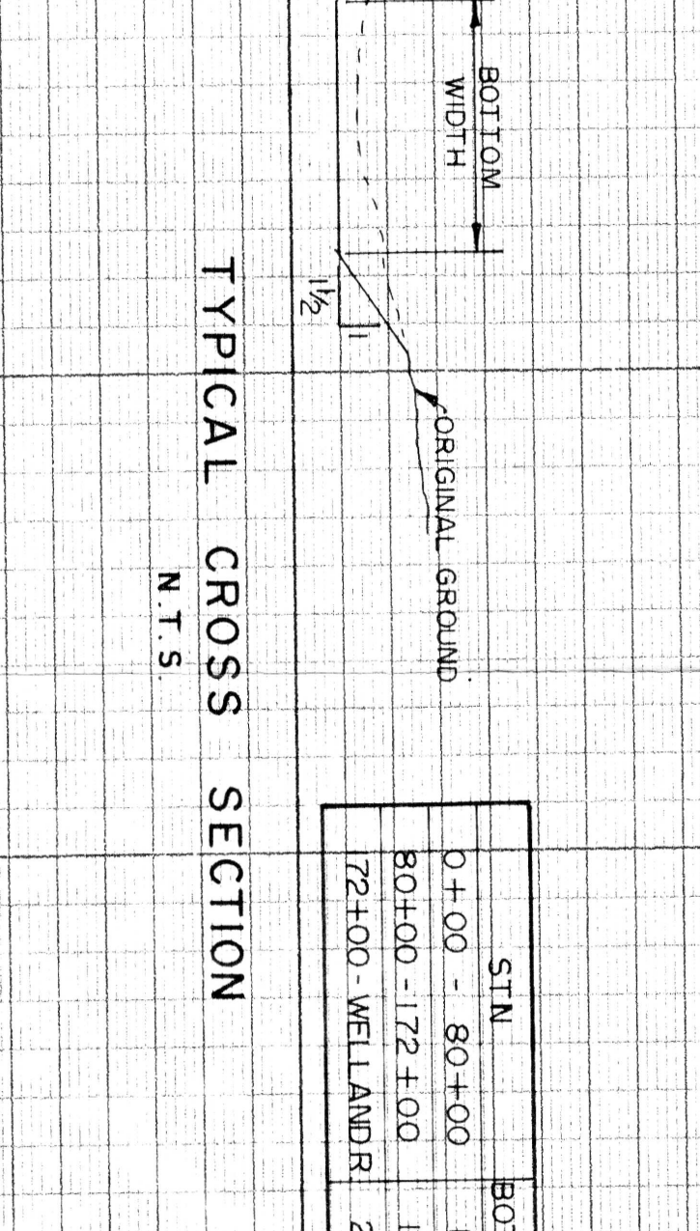
BIG CREEK
10' BOTTOM 1½ : 1 SIDE SLOPES
0·109%
16' BOTTOM 1½ : 1 SIDE SLOPES
0·06%
20' BOTTOM 1½ : 1 SIDE SLOPES
0.06 %
PROPOSED GRADE 0·109%
PROPOSED GRADE 0·06%
70
80
90
100
16'x 4' R.F. BRIDGE
18'x 5' CONCRETE CULVERT
DISHERS CREEK
TOP OF LEFT BANK
EXISTING CREEK BED
17.75' x 8.25' R.F. BRIDGE
20' x 9.2' R.F. CULVERT
18'x 5' CONCRETE BRIDGE
TRIBUTARY
DAM 173+20
DAM 190+00
DAM 199+50
DAM 204+80
8.5' x 24' R.F. BRIDGE
22' x 8.5' R.F. ARCH BRIDGE
WELLAND RIVER
BALFOUR STREET
LOT 14
LOT 13
LINE BETWEEN LOTS 12 & 13
LOT 12
CREAM STREET
LOT 11
LINE BETWEEN LOTS 10 & 11
LOT 10
UNOPENED ROAD ALLOWANCE
LOT 9
POTH STREET
WEBBER ROAD
CON XIII
CON XIV
LOT 8
LINE BETWEEN LOTS 7 & 8
LOT 7
LINE BETWEEN LOTS 6 & 7
LOT 6
EFFINGHAM ROAD
LOT 5
LINE BETWEEN LOTS 4 & 5
LOT 4
UNOPENED ROAD ALLOWANCE
LOT 3
LINE BETWEEN LOTS 2 & 3
LOT 2
TOWN OF PELHAM
UNOPENED ROAD ALLOWANCE
CITY OF WELLAND
LOT 1
TOWNSHIP OF PELHAM
SOUTH PELHAM ROAD
TOWNSHIP OF THOROLD
LOT 260
LINE BETWEEN LOTS 259 & 260
LOT 259
COLBECK DRIVE
TOWNSHIP OF PELHAM
CON XIII
CON XIV
TOWNSHIP OF THOROLD
TOWN OF PELHAM
CITY OF WELLAND
B.M. ELEV. 100·00 TOP OF PIPE AT S.E. CORNER OF E. PARAPET WALL BALFOUR STREET CULVERT
B.M. ELEV. 95·54 CENTRE OF EAST PARAPET WALL POTH STREET CULVERT
B.M. ELEV. 96·64 CENTRE OF SOUTH PARAPET WALL WEBBER ROAD CULVERT
B.M. ELEV. 90·84 CENTRE OF WEST PARAPET WALL EFFINGHAM ROAD CULVERT
B.M. ELEV. 86·68 SOUTH PELHAM ROAD BRIDGE TOP CENTRE OF WEST PARAPET WALL
B.M. ELEV. 78·60 WESTERLY CORNER OF CONCRETE FOOTING SOUTH SIDE OF COLBECK DRIVE BRIDGE

	PROPOSED INVERT ELEVATION
0+00	93.70
10+00	92.61
20+00	91.52
30+00	90.43
40+00	89.34
50+00	88.25
60+00	87.16
70+00	86.07
80+00	85.00
90+00	84.40
100+00	83.80
110+00	83.20
120+00	82.60
130+00	82.00
140+00	81.40
150+00	80.80
160+00	80.20
170+00	79.60
180+00	79.00
190+00	78.40
200+00	77.80
210+00	77.20
220+00	76.60
230+00	76.00
240+00	75.40
250+00	74.80
260+00	74.20
270+00	73.60
280+00	73.00
290+00	72.40
300+00	


STONE RIP-RAP FOR 2'-0" WIDTH ON BOTH FACES
18"
5'-4"
7'-4"
2'-5"
1½ : 1 SLOPE
6'-6"
10'-2"
3'-4"
8"

TYPICAL STONE RIP-RAP END WALLS FOR 20'-0" LONG TWIN MULTIPLATE PIPE-ARCH. (FARM BRIDGES)

SCALE 1" = 5'-0"


BOTTOM WIDTH
1½
1
ORIGINAL GROUND

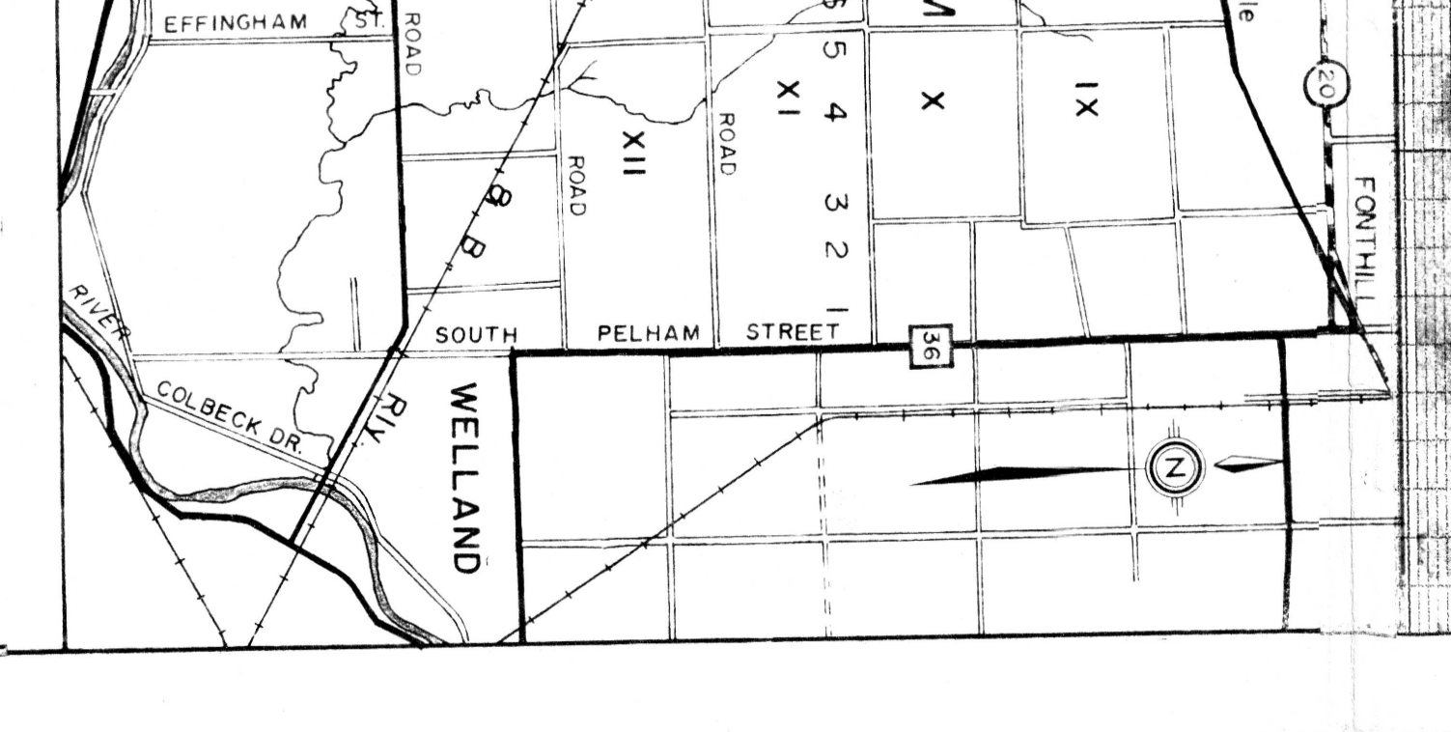
TYPICAL CROSS SECTION

N.T.S.

STN.	BOTTOM	SIDES
0+00 - 80+00	10'	1½ : 1
80+00 - 172+00	16'	1½ : 1
172+00 - WELLAND R.	20'	1½ : 1

CONTRACT No. 431

W.P. No. 935/431


REGIONAL
NIAGARA
TOWN OF PELHAM
WELLAND
Fenwick
Ridgeville
FONTHILL
South Pelham
CHURCH STREET
BALFOUR STREET
CREAM ST
POTH STREET
WEBBER ROAD
EFFINGHAM
RIVER ROAD
CHANTLER ROAD
SUMBLER ROAD
FOSS ROAD
WELLAND ROAD
SOUTH PELHAM STREET
COLBECK DR.
WELLAND RIVER
XIV
XIII
XII
XI
X
IX
20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
24
27
29
20
63
36
N

KEY PLAN

SCALE 1·25" = 1 MILE

Wilfred J. Smith & Associates Ltd.
CONSULTING ENGINEERS
PEN CENTRE · ST. CATHARINES, ONT. · TELEPHONE 416-685-9813

TOWN OF PELHAM

BIG CREEK DRAIN

DATE	REVISION	BY

DSD.	APP.	DWN.	CKD.
Simon IP	W. J. S.	S.V. CIAZYNSKI	Simon IP

DATE	SCALE	DWG. No.
NOV 1971	Horiz. 0"-400' Vert. 0"-4'	431-7