**APPENDIX A – GENERAL LOCATION MAPS**

# 2011 OUTFALL REHABILITATION
## ASH ST OUTFALL (2100mm CMP)

Winnipeg

**N**

RIM 231.22
INV N 223.22
INV S 232.22

RIM 230.96
INV N 223.25
INV S 223.25
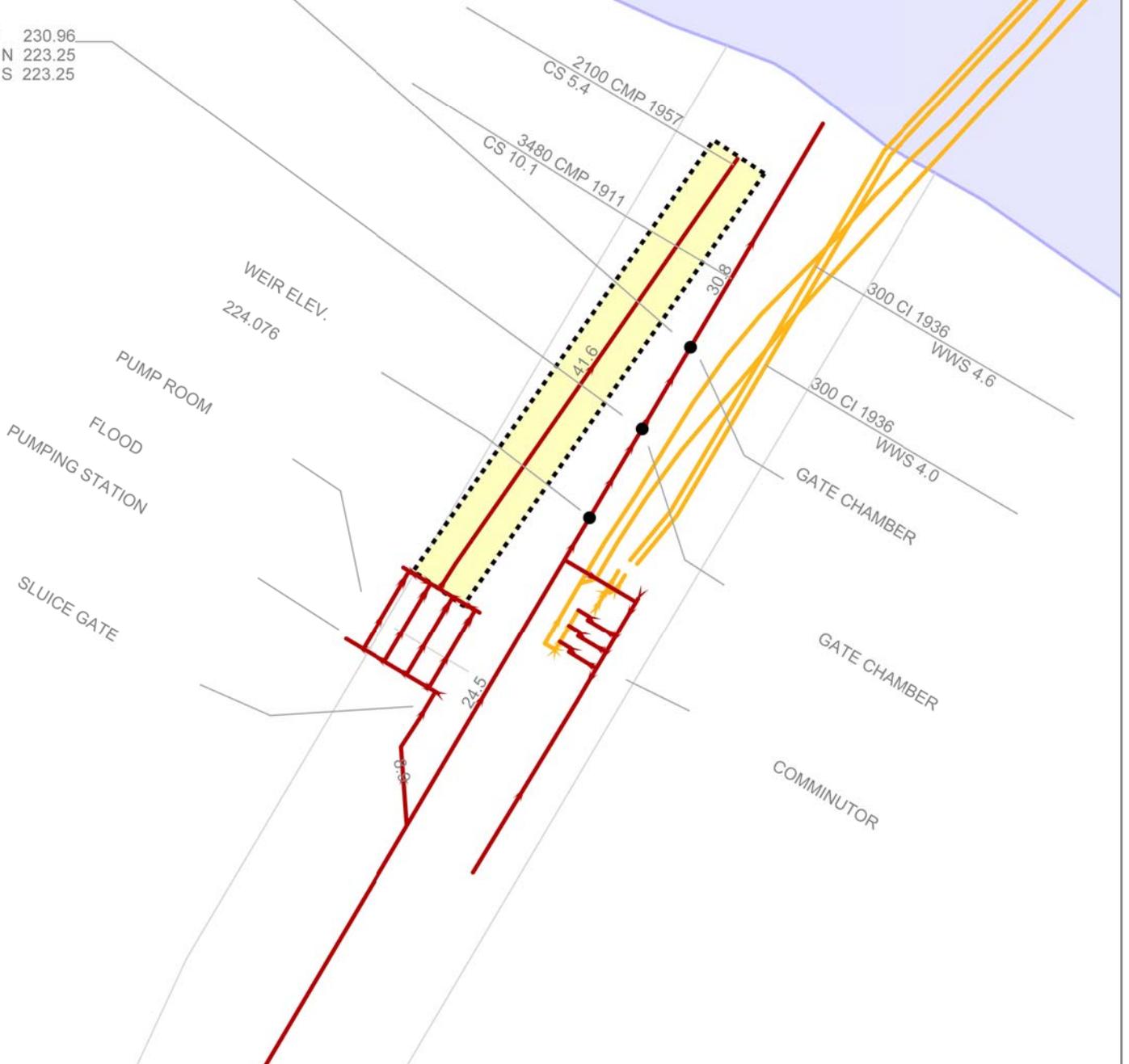
CS 5.4  2100 CMP 1957

CS 10.1  3480 CMP 1911

WEIR ELEV.
224.076

PUMP ROOM

FLOOD

PUMPING STATION

SLUICE GATE

30.8

41.6

24.5

300 CI 1936
WWS 4.6

300 CI 1936
WWS 4.0

GATE CHAMBER

GATE CHAMBER

COMMINUTOR

| | | | |
|---|---|---|---|
| ● | MANHOLE | ▪ | CATCHBASIN |
| ▬ | COMBINED SEWER | - - - - | CB LEAD |
| ▬ | LAND DRAINAGE SEWER | ▬ | WATER MAIN |
| ▬ | STORM RELIEF SEWER | ▦ | 2011 OUTFALL REHABILITATION |
| ▬ | WASTE WATER SEWER | | |

0   5   10   15   20   25
**Meters**

# 2011 OUTFALL REHABILITATION
## CHATAWAY BV OUTFALL (900mm CMP)

Winnipeg

N

45.2

RIM 231.19
INV S 225.47
INV W 225.50

RIM 231.06
INV N 225.45
INV E 226.00
INV W 225.50

RIM 231.34
INV E 223.97
INV S 223.97
INV W 223.97

51.7

SLUICE GATE

RIM 231.19
INV S 228.43
INV W 228.04

CHATAWAY PUMPING STATION

FLAP GATE

RIM
INV E 228.74
INV S

RIM 231.39
INV E 225.60
INV W 225.60

33.3

GATE VALVE

RIM 231.17
WEIR 225.48
INV N 225.33
INV E 225.40
INV S 225.43

27.1

| Symbol | Legend | Symbol | Legend |
|---|---|---|---|
| ● | MANHOLE | ■ | CATCHBASIN |
| —▶ | COMBINED SEWER | - - - - | CB LEAD |
| —▶ | LAND DRAINAGE SEWER | —— | WATER MAIN |
| —▶ | STORM RELIEF SEWER | ▦ | 2011 OUTFALL REHABILITATION |
| —▶ | WASTE WATER SEWER | | |

0 5 10 15 20 25
Meters

2280X1520 CONC 1957
CS 3.1

# 2011 OUTFALL REHABILITATION
## CRANE AV OUTFALL (900mm CSP)
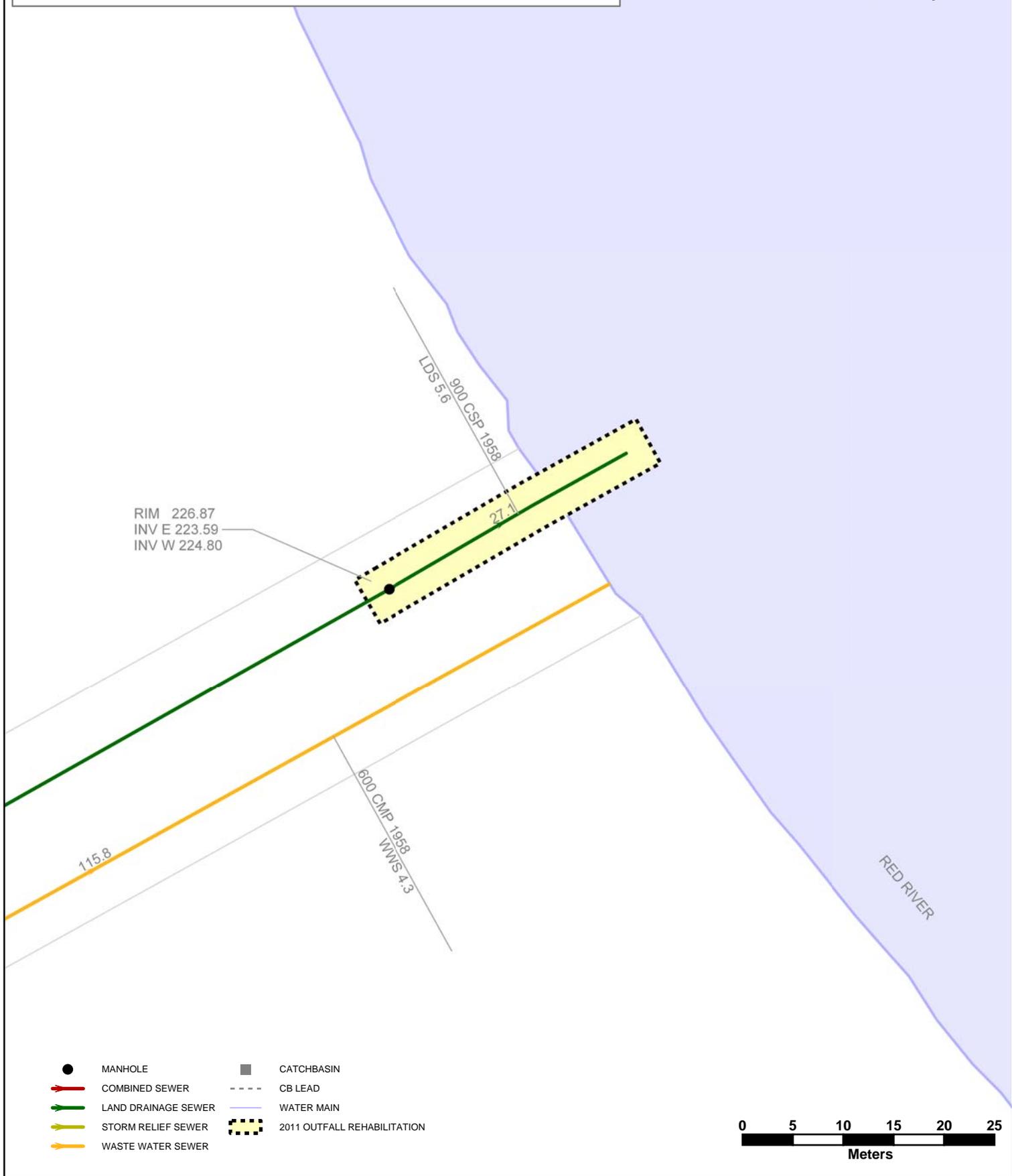
Winnipeg

N

LDS 5.6

900 CSP 1958

27.1

RIM 226.87
INV E 223.59
INV W 224.80

600 CMP 1958

WWS 4.3

115.8

RED RIVER

| | | |
|---|---|---|
| ● | MANHOLE | ■ CATCHBASIN |
| —▶ | COMBINED SEWER | - - - - CB LEAD |
| —— | LAND DRAINAGE SEWER | —— WATER MAIN |
| —— | STORM RELIEF SEWER | ▦ 2011 OUTFALL REHABILITATION |
| —▶ | WASTE WATER SEWER | |

0    5    10    15    20    25
Meters

# 2011 OUTFALL REHABILITATION
## EMPRESS ST OUTFALL (750mm Conc/ CSP)
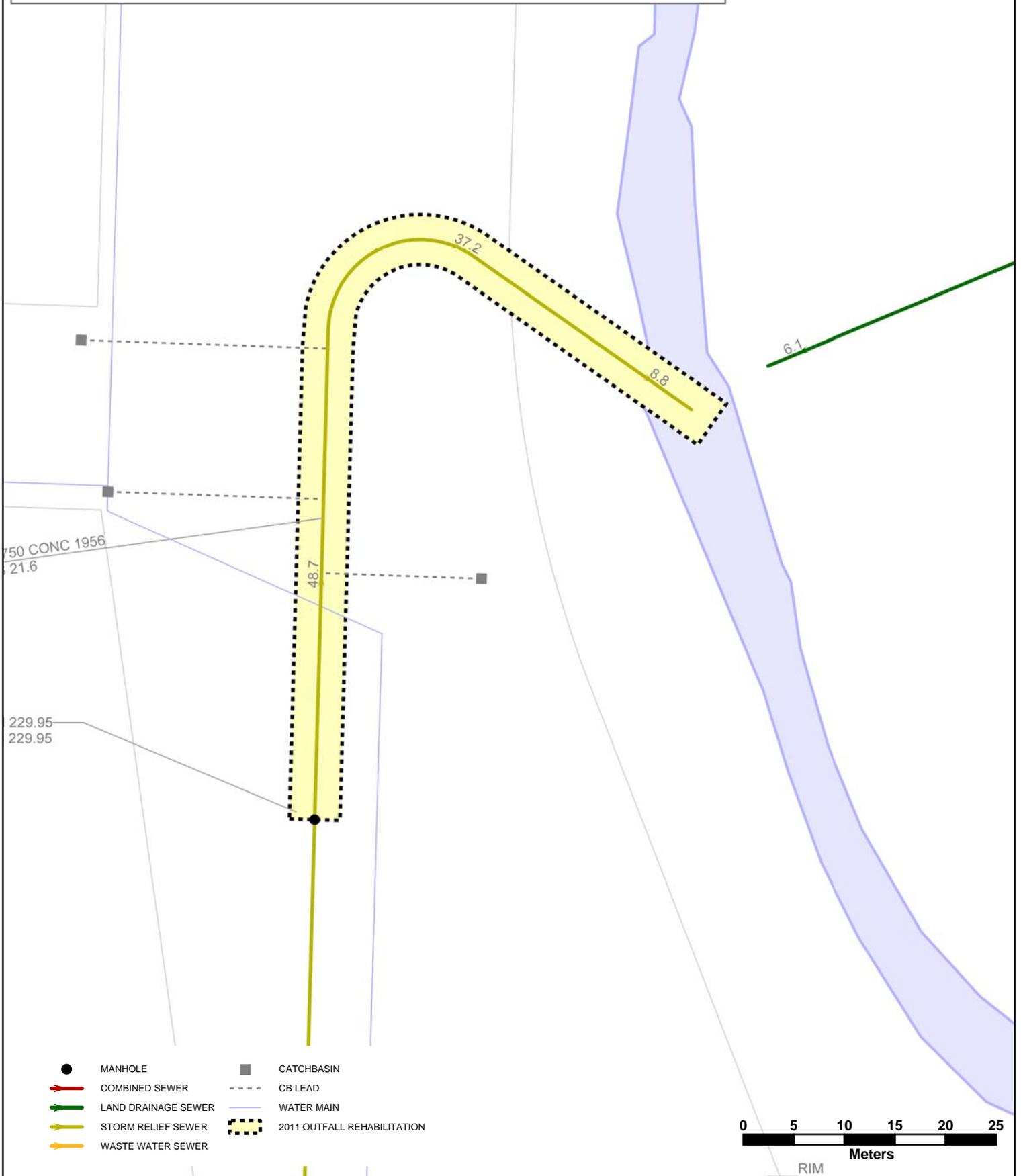
Winnipeg

**N**

37.2

8.8

6.1

750 CONC 1956
21.6

48.7

229.95
229.95

RIM

| Legend | | Legend | |
|---|---|---|---|
| ● | MANHOLE | ■ | CATCHBASIN |
| COMBINED SEWER | | CB LEAD | |
| LAND DRAINAGE SEWER | | WATER MAIN | |
| STORM RELIEF SEWER | | 2011 OUTFALL REHABILITATION | |
| WASTE WATER SEWER | | | |

0   5   10   15   20   25

**Meters**
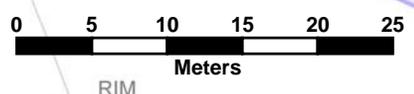
# 2011 OUTFALL REHABILITATION
## EMPRESS ST OUTFALL (300mm CMP)
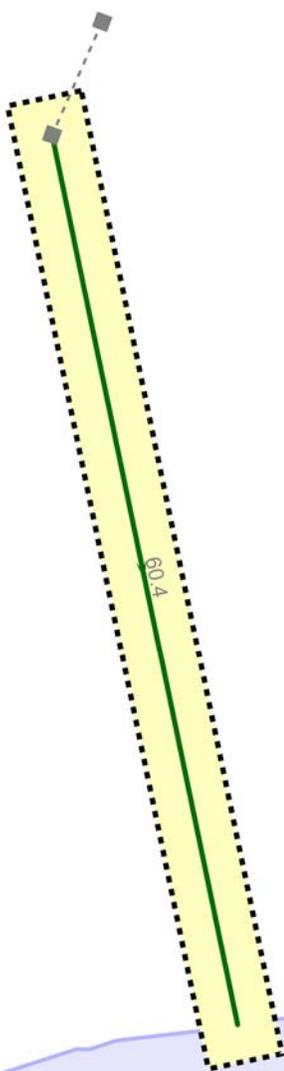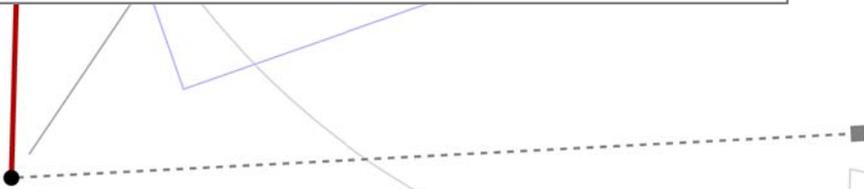
Winnipeg

N

60.4

| | MANHOLE | | CATCHBASIN |
|---|---|---|---|
| | COMBINED SEWER | | CB LEAD |
| | LAND DRAINAGE SEWER | | WATER MAIN |
| | STORM RELIEF SEWER | | 2011 OUTFALL REHABILITATION |
| | WASTE WATER SEWER | | |

0    5    10    15    20    25

Meters

# 2011 OUTFALL REHABILITATION
## RUE LA VERENDRY OUTFALL (600mm CMP)

Winnipeg

**N**

RIM 229.92
WEIR 224.00
INV E 223.14
INV W 223.14

RUE

92.7

43.7

12.3

15.2

CS 4.2

600 CMP 1951

600 CMP 1978

CS 10.3

FLAP
GATE

15.6

40.5

56.7

SLUICE
GATE
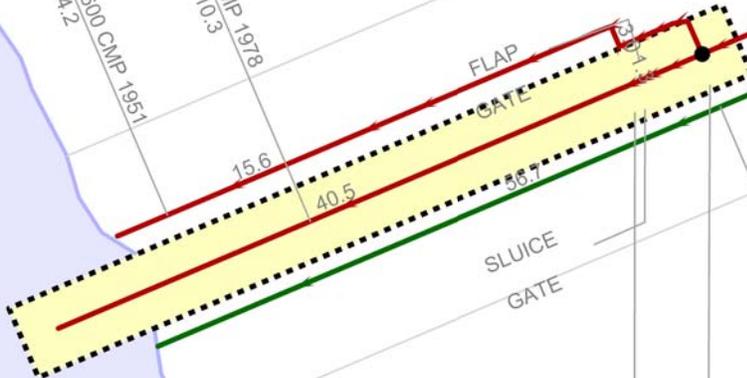
1200 CONC 1978
LDS 6.1

450 CONC 9999
CS 9.8

750
LDS 3

RIM 231.23
INV E 222.65
INV W 222.65

RIM 229.97
INV N 224.18
INV S 224.21
INV W 223.96
INV N 224.18

RIM 230.25
WEIR 223.27
INV E 223.11
INV W 223.11
INV N 220.79

| MANHOLE | CATCHBASIN |
| COMBINED SEWER | CB LEAD |
| LAND DRAINAGE SEWER | WATER MAIN |
| STORM RELIEF SEWER | 2011 OUTFALL REHABILITATION |
| WASTE WATER SEWER | |

0    5    10    15    20    25
**Meters**
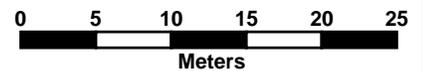
# 2011 OUTFALL REHABILITATION
## RIDGEDALE CR OUTFALL (450mm CMP)
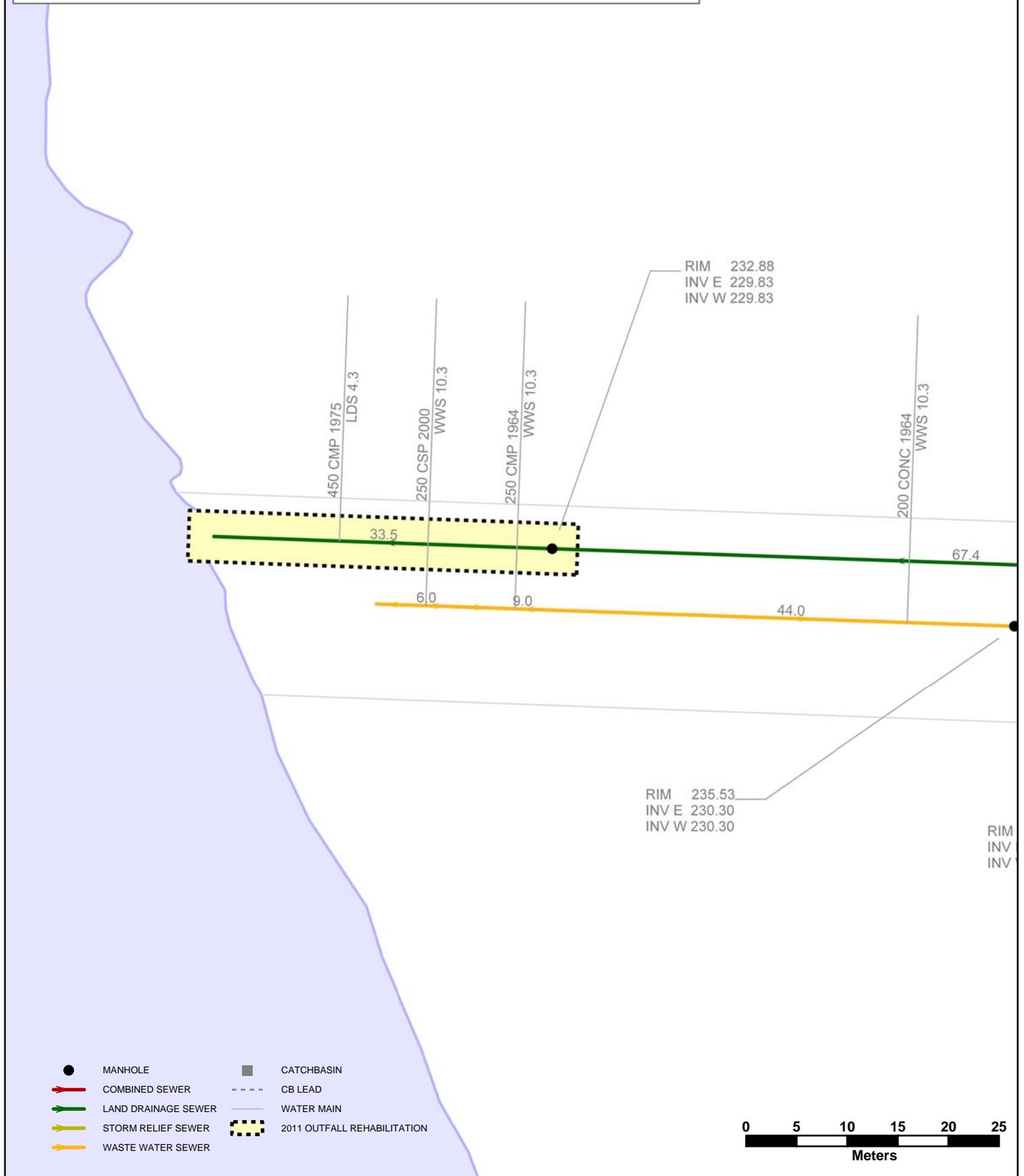
Winnipeg

N

RIM 232.88
INV E 229.83
INV W 229.83

450 CMP 1975
LDS 4.3
250 CSP 2000
WWS 10.3
250 CMP 1964
WWS 10.3
200 CONC 1964
WWS 10.3

33.5

67.4

6.0

9.0

44.0

RIM 235.53
INV E 230.30
INV W 230.30

RIM
INV
INV

● MANHOLE          ■ CATCHBASIN
COMBINED SEWER          - - - - - CB LEAD
LAND DRAINAGE SEWER          WATER MAIN
STORM RELIEF SEWER          2011 OUTFALL REHABILITATION
WASTE WATER SEWER

0    5    10    15    20    25
Meters

# 2011 OUTFALL REHABILITATION
## WELLINGTON CR OUTFALL (300mm PCP)
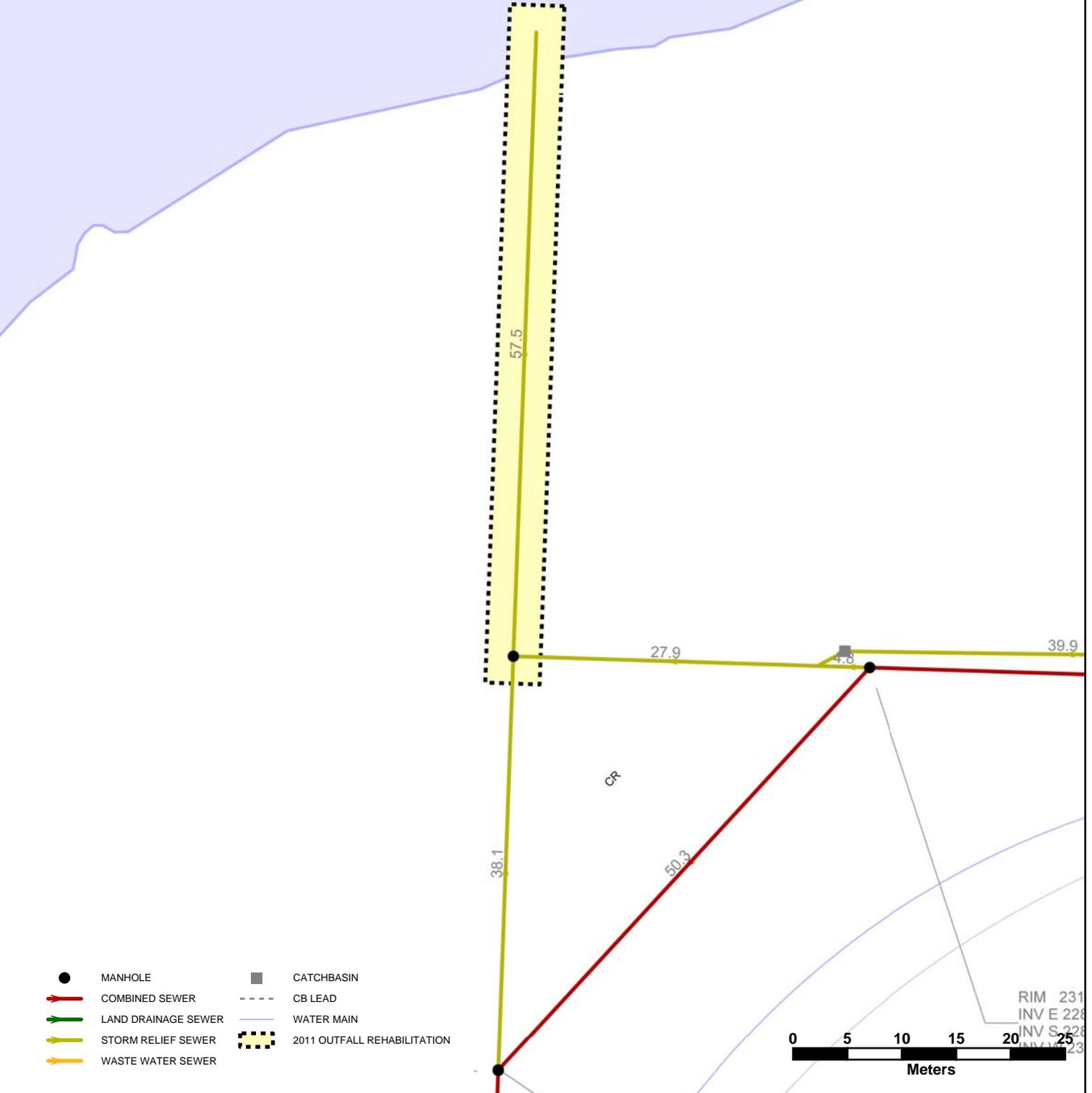
Winnipeg

N

57.5

27.9

39.9

CR

38.1

50.3

RIM 231
INV E 228
INV S 228
INV W 231

| | MANHOLE | | CATCHBASIN |
|---|---|---|---|
| | COMBINED SEWER | | CB LEAD |
| | LAND DRAINAGE SEWER | | WATER MAIN |
| | STORM RELIEF SEWER | | 2011 OUTFALL REHABILITATION |
| | WASTE WATER SEWER | | |

0    5    10    15    20    25
Meters