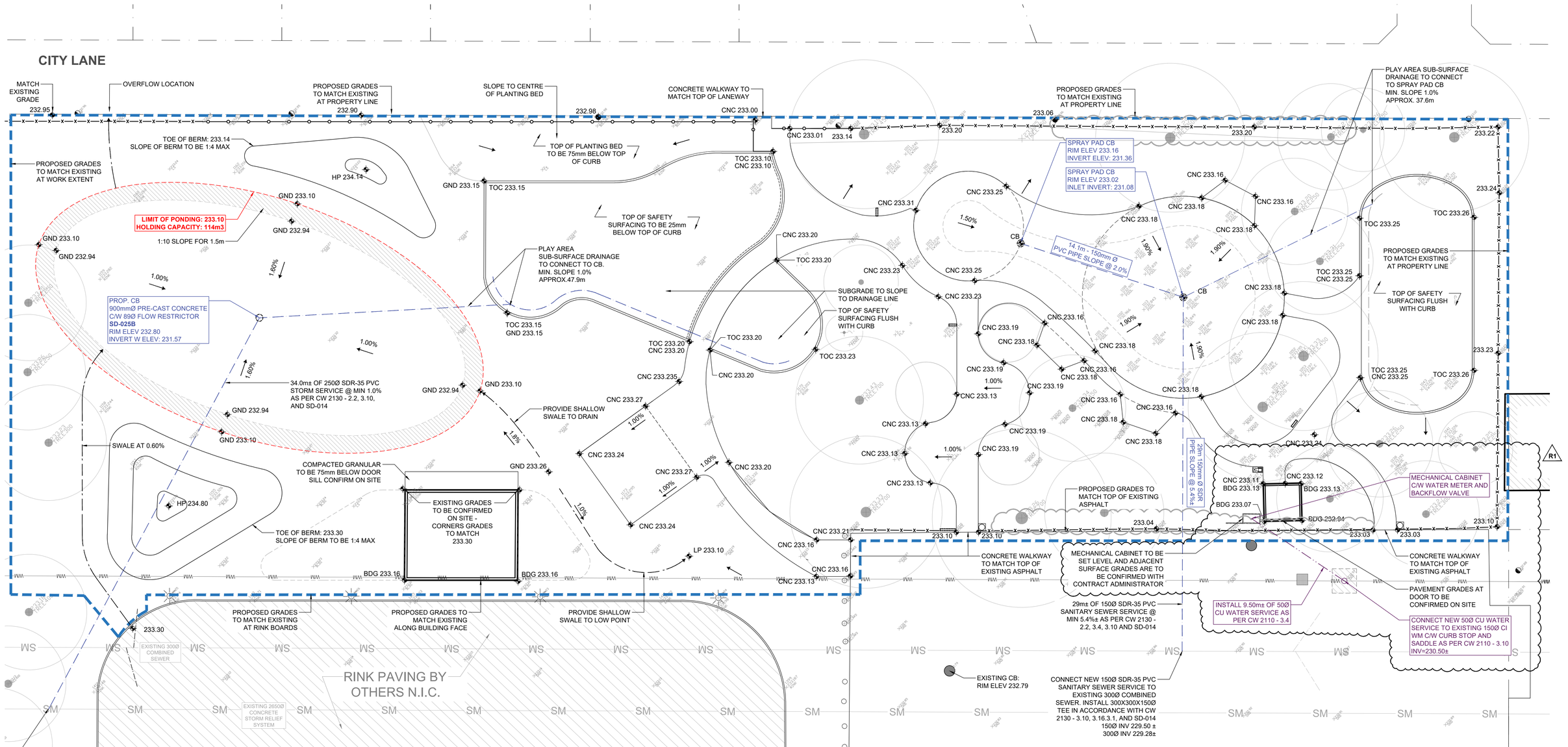

1:5 YEAR PEAK DISCHARGE PRE-DEVELOPMENT CONDITIONS

AREA sq.m.		C FACTOR
IMPERVIOUS	1735	0.9
PERVIOUS	3955	0.2
TOTAL	5690	WEIGHTED C= 0.413

TOTAL 5 YR PEAK FLOW FROM SITE Tc = 10 MIN
Q = CIA
C = 0.413
I = 109.5 mm/hr
A = 5690 sq.m.
Q = 70.963 L/s

1:5 YEAR PEAK DISCHARGE POST-DEVELOPMENT CONDITIONS

AREA sq.m.		C FACTOR
IMPERVIOUS	1241	0.9
PERVIOUS	680	0.2
TOTAL 1921		WEIGHTED C = 0.652

TOTAL 5 YR PEAK FLOW FROM SITE Tc = 10 MIN
Q = CIA
C = 0.652
I = 109.5 mm/hr
A = 1921 sq.m.
Q = 37.794 L/s

PEAK DISCHARGE IN POST-DEVELOPMENT CONDITIONS IS LOWER THAN PRE-DEVELOPMENT

NOTES

1. ALL WORK TO CONFORM TO THE CITY OF WINNIPEG, STANDARD CONSTRUCTION SPECIFICATIONS AND ALL REFERENCES CONTAINED HEREIN REFER TO THESE SPECIFICATIONS.
2. ALL MATERIALS USED FOR CONSTRUCTION TO CONFORM TO THE CITY OF WINNIPEG, APPROVED PRODUCTS FOR UNDERGROUND USE WITHIN THE CITY OF WINNIPEG EXCEPT AS INDICATED OTHERWISE.
3. WATER SERVICE TO CW-2110
   - 3.1. ALL WATER SERVICE CONNECTION TO MAIN TO USE CONNECTION SADDLE INSTALLED ACCORDING TO CW2110, SD-012
   - 3.2. COPPER WATER SERVICE SHALL BE IN ACCORDANCE WITH AWWA C800 AND ASTM BB88M, TYPE K, SEAMLESS WATER TUBING.
   - 3.3. USE CLASS 'B' BEDDING WHERE REQUIRED IN ACCORDANCE WITH SD-001.
   - 3.4. FOR BACKFILLING, REFER TO SD-002 AS FOLLOWS:
     - 3.4.1. CLASS '4' OR '5' BACKFILL IN LANDSCAPED & UNTRAVELED AREAS
     - 3.4.2. CLASS '2' BACKFILL IN GRAVEL, HARD-SURFACED, & TRAVELED AREAS
4. GRAVITY SEWERS SERVICE TO CW-2030
   - 4.1. WASTEWATER SEWER SERVICE INSTALLATION SHALL BE IN ACCORDANCE WITH CW 2030/2130, SD-014.
   - 4.2. 150MM WWS SERVICE PIPE SHALL BE IN ACCORDANCE WITH CAN/CSA B182.2 AND ASTM D3034, SDR-35.
   - 4.3. ALL PIPE INSTALLATIONS THROUGH ROAD RIGHT OF WAY SHALL BE COMPLETED WITH TRENCHLESS METHODS. ANY OPEN TRENCH CONSTRUCTION ON SITE SHALL BE AS FOLLOWS:
     - 4.3.1. CLASS 'B' BEDDING TO SD-001.
     - 4.3.2. BACKFILL TO SD-002: CLASS '2' IN GRAVEL, HARD-SURFACES, AND TRAVELED AREAS; CLASS '4' OR '5' IN LANDSCAPED AND UNTRAVELED AREAS.
5. CONTRACTOR IS RESPONSIBLE FOR ALL RESTORATION UNLESS OTHERWISE SPECIFIED IN PERMITS.
6. DESIGN OF OUTDOOR SPRAY FEATURES SHALL INCLUDE RAIN SENSING DEVICES TO CONTROL/RESTRICT DISCHARGE INTO THE COMBINED SEWER SYSTEM DURING RAINFALL EVENTS.
7. SUPPLIER TO PROVIDE DWG OUTLINE OF SPRAY PATTERS FOR INCORPORATION INTO CIVIL PLAN.

GENERAL NOTES

- ALL EXISTING STRUCTURES, TREES, SHRUBS, SIDEWALKS, CURBS, SOD, UTILITIES AND PAVING TO BE PROTECTED (UNLESS OTHERWISE NOTED) DURING CONSTRUCTION. CONTRACTOR TO MAKE GOOD ALL DAMAGED AREA DURING AND AFTER CONSTRUCTION TO OWNER'S STANDARDS AT THE CONTRACTORS COSTS
- CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION
- CONTRACTOR TO CONFIRM ALL EXISTING GRADES, BUILDING LOCATIONS, LAYOUT, DIMENSIONS AND MATERIALS ON SITE AND REPORT ANY DISCREPANCIES TO THE C.A. PRIOR TO CONSTRUCTION
- EXISTING GRADE TO BE MAINTAINED AT ALL PROPERTY LINES, UTILITIES, CITY SIDEWALKS AND TREES, UNLESS NOTED OTHERWISE
- ALL GRADES TO BE APPROVED BY CONTRACT ADMINISTRATOR AND ANY DISCREPANCIES MUST BE REPORTED TO THE CONTRACT ADMINISTRATOR PRIOR TO ANY CONSTRUCTION
- ENSURE POSITIVE DRAINAGE AWAY FROM EXISTING BUILDING FOUNDATIONS
- EARTHWORK AND GRADING TO FOLLOW **CW3170**
- ENSURE MINIMAL CHANGE OF GRADE WITHIN TREE PROTECTION AREA
- SLOPE TOLERANCE:

  PAVED AREA SLOPES:
  MAX 5%, MIN 1%
  MAX CROSS SLOPE 2%

  SODDED AREA SLOPES:
  MAX 25%, MIN 1%
- ANY DEVIATION FROM THE ABOVE SLOPES TO BE APPROVED BY CONTRACT ADMINISTRATOR PRIOR TO CONSTRUCTION
- REFER TO WRITTEN SPECIFICATIONS

0 1 5 10m

N

LEGEND:

- PROPERTY LINE
- EXTENT OF WORK
- EX. FENCE LINE (TO REMAIN)
- EX. SEWER MAIN
- EX. HYDRO POLE
- EX. CATCH BASIN
- EX. TREE (TO REMAIN)
- EX. SHRUB (TO REMAIN)
- EX. LIGHT (TO REMAIN)
- 000.00 EX. GRADE
- 000.00 PR. GRADE
- PR. DRAINAGE DIRECTION
- PR. CATCH CASIN

ABBREVIATIONS:

BDG	BUILDING CORNER	TOC	TOP OF CURB
CNC	CONCRETE	GND	GROUND
CB	CATCH BASIN		
HP	HIGH POINT		
LP	LOW POINT		

REV	YY / MM / DD	DESCRIPTION	BY
1	24 / 02 / 14	ISSUED FOR ADDENDUM 1	JW
0	24 / 01 / 22	ISSUED FOR TENDER	JW

A. SECTION LETTER OR DETAIL NUMBER,
B. DRAWING WHERE SECTION OR DETAIL IS DRAWN,
OR
DRAWING WHERE SECTION OR DETAIL IS INDICATED,
--- SECTION OR DETAIL SHOWN ON SAME DRAWING.

A / B A / ---

SEAL

CLIENT: Winnipeg

SCATLIFF + MILLER + MURRAY
visionary urban design + landscapes

PROJECT: VALOUR COMMUNITY CENTRE SPRAY PAD AND PLAYGROUND

TITLE: GRADING & SERVICING PLAN

DESIGN	DRAWN	DATE - Y / M / D	SCALE
JW CT	JW CT	24 / 01 / 22	1:150
CHECKED	APPROVED	PROJECT NO.	DRAWING NO.
JW	JW	22-0107-008	L104

CAD File Name: valourcc_clifton site_working_expanded.dwg

sheet size - Super A1 24" x 36"

plotscale - 1:1 (metric)