

DRAWING INDEX

SHEET NUMBER	CONSULTANT DRAWING NUMBER	CITY OF WINNIPEG DRAWING NUMBER	DRAWING TITLE
1	C1-01	13642	COVER SHEET
2	C1-02	13643	INDEX SHEET & GENERAL NOTES
3	C1-03	13644	LOCATION PLAN & MANHOLE COORDINATES TABLE
4	C1-04	13645	LEILA AVENUE - McPHILLIPS STREET TO 101.4 E OF McPHILLIPS STREET
5	C1-05	13646	LEILA AVENUE - 101.4 E OF McPHILLIPS STREET TO 221.4 E OF McPHILLIPS STREET
6	C1-06	13647	LEILA AVENUE - 221.4 E OF McPHILLIPS STREET TO 132.7 W OF GARDEN PARK DRIVE
7	C1-07	13648	LEILA AVENUE - 132.7 W OF GARDEN PARK DRIVE TO 7.7 W OF GARDEN PARK DRIVE
8	C1-08	13649	LEILA AVENUE - 7.7 W OF GARDEN PARK DRIVE TO 90.0 E OF GARDEN PARK DRIVE
9	C1-09	13650	LEILA AVENUE - 90.0 E OF GARDEN PARK DRIVE TO 6.4 E OF JACK DONNER DRIVE
10	C1-10	13651	LEILA AVENUE - 6.4 E OF JACK DONNER DRIVE TO 84.3 W OF SINCLAIR STREET
11	C1-11	13652	LEILA AVENUE - 84.3 W OF SINCLAIR STREET TO 20.5 E OF SINCLAIR STREET
12	C1-12	13653	LEILA AVENUE - 20.5 E OF SINCLAIR STREET TO 5.7 W OF MONSEY STREET
13	C1-13	13654	LEILA AVENUE - 5.7 W OF MONSEY STREET TO 81.5 W OF DIPLOMAT DRIVE
14	C1-14	13655	LEILA AVENUE - 81.5 W OF DIPLOMAT DRIVE TO 25.3 E OF DIPLOMAT DRIVE
15	C1-15	13656	LEILA AVENUE - 25.3 E OF DIPLOMAT DRIVE TO 43.1 W OF AMBASSADOR ROW
16	C1-16	13657	LEILA AVENUE - 43.1 W OF AMBASSADOR ROW TO 53.6 E OF AMBASSADOR ROW
17	C1-17	13658	LEILA AVENUE - 53.6 E OF AMBASSADOR ROW TO 8.2 W OF McGREGOR STREET
18	C1-18	13659	LEILA AVENUE - 8.2 W OF McGREGOR STREET TO 91.9 E OF McGREGOR STREET
19	C1-19	13660	LEILA AVENUE - 91.9 E OF McGREGOR STREET TO 10.4 E OF ANDREWS STREET
20	C1-20	13661	LEILA AVENUE - 10.4 E OF ANDREWS STREET TO 7.2 E OF WEINBERG ROAD
21	C1-21	13662	LEILA AVENUE - 7.2 E OF WEINBERG ROAD TO 18.9 E OF POWERS STREET
22	C1-22	13663	LEILA AVENUE - 18.9 E OF POWERS STREET TO 13.1 E OF SALTER STREET
23	C1-23	13664	LEILA AVENUE - 13.1 E OF SALTER STREET TO 113.1 E OF SALTER STREET
24	C1-24	13665	LEILA AVENUE - 113.1 E OF SALTER STREET TO 58.9 W OF AIKINS STREET
25	C1-25	13666	LEILA AVENUE - 58.9 W OF AIKINS STREET TO AIKINS STREET
26	C1-26	13667	AIKINS STREET - LEILA AVENUE TO 8.3 S OF NEWTON AVENUE
27	C1-27	13668	AIKINS STREET - 8.3 S OF NEWTON AVENUE TO ARMSTRONG AVENUE
28	C1-28	13669	ARMSTRONG AVENUE - AIKINS STREET TO 84.5 W OF MAIN STREET
29	C1-29	13670	ARMSTRONG AVENUE - 84.5 W OF MAIN STREET TO MAIN STREET
30	C1-30	13671	McGREGOR STREET - 50.0 S OF PARTRIDGE AVENUE TO LEILA AVENUE
31	C1-31	13672	PRIVATE SEWER SEPARATION - GARDEN CITY SHOPPING CENTRE
32	C1-32	13673	PRIVATE SEWER SEPARATION - PARTIAL SEWER SEPARATION AT GARDEN CITY SQUARE
33	C1-34	13675	PRIVATE SEWER SEPARATION - THE HEDGES ON LEILA APARTMENTS (707 LEILA AVENUE)
34	C1-36	13677	PRIVATE SEWER SEPARATION - LEILA SQUARE MALL (620-666 LEILA AVENUE)
35	C1-37	13678	PRIVATE SEWER SEPARATION - WHITBY COURTS TOWNHOUSE APARTMENTS (549-561 LEILA AVENUE)
36	C1-39	13680	PRIVATE SEWER SEPARATION - APARTMENT BUILDING (445 PARTRIDGE AVENUE) & McGREGOR PLAZA
37	C1-40	13681	MANHOLE DETAILS - SHEET 1
38	C1-41	13682	MANHOLE DETAILS - SHEET 2
39	C1-42	13683	MANHOLE DETAILS - SHEET 3
40	C1-43	13684	MANHOLE DETAILS - SHEET 4
41	C1-44	13685	MISCELLANEOUS DETAILS
42	C1-45	13686	MANHOLE CHAMBER AT MAIN STREET - SPECIFICATION NOTES
43	C1-46	13687	MANHOLE CHAMBER AT MAIN STREET - PLAN AND SECTIONS
44	C1-47	13688	MANHOLE CHAMBER AT MAIN STREET - SECTIONS AND DETAILS
45	C1-48	13640	LEILA AVENUE - CPKC RAILWAY MILE 2.93 WINNIPEG BEACH SPUR
46	C1-49	13641	LEILA AVENUE - CPKC RAILWAY MILE 2.93 WINNIPEG BEACH SPUR - SETTLEMENT MONITORING

ABBREVIATIONS

WWS	WASTE WATER SEWER
CS	COMBINED SEWER
LDS	LAND DRAINAGE SEWER
ℙ	PROPERTY LINE
℄	CENTER LINE
G.I.S.	GEOGRAPHIC INFORMATION SYSTEM
B.M.	BENCH MARK
TH	TEST HOLE
ELEV	ELEVATION
INV	INVERT
MIN	MINIMUM
MAX	MAXIMUM
SL	STREET LIGHTING
TS	TRAFFIC SIGNALS
ABAND	ABANDONED
BLDG	BUILDING
HSE	HOUSE
CRN	CORNER
OPP	OPPOSITE
C/S OR S/C	CURB STOP
MTS	MANITOBA TELEPHONE SYSTEM
R.O.W.	RIGHT-OF-WAY
WM	WATERMAIN
CULV	CULVERT
MH	MANHOLE
CB	CATCH BASIN
CI	CURB INLET
VERT.	VERTICAL
HORZ.	HORIZONTAL
I.B.	IRON BAR
FIBRE	FIBRE OPTIC
TYP	TYPICAL
X-ING	CROSSING
HYD	HYDRANT
EXIST	EXISTING
N	NORTH
E	EAST
S	SOUTH
W	WEST
W/	WITH
C/W	CONSTRUCTED WITH
CONC	CONCRETE
AC	ASBESTOS CEMENT
VC OR CLAY	VITRIFIED CLAY
CI	CAST IRON
DI	DUCTILE IRON
PVC	POLYVINYL CHLORIDE
HDPE	HIGH DENSITY POLYETHYLENE
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
FM	FEEDERMAIN
FCM	FORCE MAIN (PRESSURIZED SEWER MAIN)

LEGEND

DESCRIPTION	PLAN VIEW		
	ABANDONED	EXISTING	PROPOSED
WATER PIPE	---	---	---
FIRE HYDRANT		⊕	⊕
VALVE	⊗	⊗	⊗
CURB STOP	⊕	⊕	⊕
REDUCER	∠	∠	∠
COUPLING OR SLIDDER	∠	X	X
CROSS	⊕	⊕	⊕
BEND - 11.25', 22.5', 45', 90'	∠	∠	∠
TEE	∠	∠	∠
VERTICAL BEND	∠	∠	∠
ANODE		⊕	⊕
REPAIR MARKER		⊕	⊕
PLUG	∠	∠	∠
SEWER PIPE	---	---	---
MANHOLE	○	○	○
CATCH BASIN	□	□	□
CURB INLET	∠	∠	∠
JUNCTION	∠	∠	∠
℄ DITCH	---	---	---
CULVERT	---	---	---
SURVEY BAR		⊕	⊕
SURVEY MONUMENT		⊕	⊕
TREE - DECIDUOUS			
TREE - CONIFEROUS			
HYDRO		---	---
HYDRO POLE		⊕	⊕
LAMP STANDARD		⊕	⊕
HYDRO POLE W/STREET LIGHTING		⊕	⊕
POLE		⊕	⊕
GUY ANCHOR		⊕	⊕
M.T.S. POLE		⊕	⊕
PEDESTAL OR BOX		⊕	⊕
CABINET		⊕	⊕
M.T.S., SHAW, OR VIDEON		⊕	⊕
TRAFFIC SIGNALS		⊕	⊕
TRAFFIC LIGHT STANDARD		⊕	⊕
GAS		---	---
STEAM		---	---
FIBRE OPTIC		---	---
FENCE		---	---
EDGE OF PAVEMENT OR GUTTER		---	---
EDGE UNPAVED OR GRAVEL ROAD		---	---
PROJECTED ℄		---	---
LOT LINE		---	---
SIDEWALK - PATHWAY		---	---
EASEMENT		---	---
EDGE OF BUILDING		---	---
MAILBOX		⊕	⊕
PARKING METER		⊕	⊕
TEST HOLE		⊕	⊕
TREE LINE OR BUSH		---	---

CONSTRUCTION NOTES

- ALL UNDERGROUND WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REVISION OF THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
- ALL EXISTING UNDERGROUND SERVICES SHOWN ON DRAWINGS ARE APPROXIMATE ONLY.
- CONTRACTOR TO VERIFY LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES AND SERVICES PRIOR TO START OF CONSTRUCTION. HYDROVAC TO CONFIRM DEPTHS AND LOCATIONS OF ALL EXISTING UTILITIES ALONG WWS SEWER ALIGNMENT.
- FOR MANHOLE DETAILS SEE DWG. 13681, 13682, 13683, 13684 & 13685.
- 1200# AND 1500# MANHOLES WITH MODIFIED STANDARD DETAIL (SEE DRAWING 13685) ARE THE FOLLOWING:  
MH1-1, MH1-2, MH1-3, MH1-4, MH1-5, MH1-7, MH1-8, MH1-9, MH1-10, MH1-11, MH1-12, MH1-13, MH1-17, MH1-18, MH1-19, MH1-20, MH1-24, MH1-25, MH1-26, MH1-31, MH1-33, MH1-35, MH1-38, MH1-45 AND MH1-49
- STANDARD DROP MANHOLE SHALL COMPLY WITH C.O.W. DETAIL SD-010D.
- ALL MANHOLES TO BE INSTALLED IN THE PAVEMENT OF LEILA AVENUE (BETWEEN MCPHILLIPS STREET AND MCGREGOR STREET) AND MCGREGOR STREET SHALL HAVE 300 HIGH 750mm DIA. MANHOLE BARREL SECTION PLUS A 50mm ADJUSTING RING UNDER THE FRAME TO ALLOW FOR CHANGE IN THE MANHOLE RIM ELEVATION FOR THE FUTURE PUBLIC WORKS STREET RENEWAL PROJECT ON LEILA AVENUE AND MCGREGOR STREET.
- ALL MANHOLES TO BE INSTALLED IN TRENCHLESS INSTALLATION SHAFTS SHALL HAVE MINIMUM 150 THICK TYPE 3 BEDDING FILL IN ACCORDANCE WITH CW2030.
- ALL NEW CATCH BASINS LEADS TO BE 250# PVC SDR35 PIPES (AS SHOWN ON THE DRAWINGS).
- ALL NEW WASTEWATER SERVICES WITH SIZES 150# AND UNDER TO BE PVC SDR28 PIPES AND ABOVE 150# TO BE PVC SDR35 PIPES.
- ALL PIPE SHALL HAVE CLASS B BEDDING WHEN INSTALLED BY TRENCH METHOD.
- BACKFILL UNDER PAVEMENT & WITHIN 1.0 OF PAVEMENT ON REGIONAL STREETS TO BE CLASS 1. HOWEVER, FOR THE STREETS FALLING WITHIN THE SCOPE OF THE FUTURE PUBLIC WORKS STREET RENEWAL PROJECT, WHICH ARE LEILA AVENUE (BETWEEN MCPHILLIPS STREET AND MCGREGOR STREET) AND MCPHILLIPS STREET, THE BACKFILL SHALL BE CLASS 1 (MODIFIED).
- BACKFILL UNDER PAVEMENT & WITHIN 1.0 OF PAVEMENT ON OTHER ROADWAYS TO BE CLASS 3.
- BACKFILL IN BOULEVARDS TO BE CLASS 5.
- EXISTING SEWER AND WATER SERVICES TO BE REGRADED AS REQUIRED FOR CONSTRUCTION OF THE NEW WWS AND LDS PIPING.
- CONTRACTOR TO INSTALL SEWER SERVICE RISERS TO AN ELEVATION WHERE MINIMUM SLOPE OF 1.0% IS MAINTAINED FOR ALL SERVICES.
- WHEN REDIRECTING EXISTING SEWER SERVICES TO THE NEW WWS ALL NEW SERVICE PIPE SIZE TO MATCH EXISTING SERVICE SIZE.
- CONTRACTOR SHALL MITIGATE IMPACTS TO THE WORK AREA FROM SITE SURFACE RUNOFF.
- PEDESTRIAN ACCESS MUST BE MAINTAINED DURING CONSTRUCTION AT ALL TIMES UNLESS OTHERWISE STATED.
- RESTORE ALL EXISTING SURFACES AND STRUCTURES, INCLUDING, BUT NOT LIMITED TO PAVEMENT, CURBS, SIDEWALKS, SOD TO PRECONSTRUCTION CONDITIONS OR BETTER. HOWEVER FOR THE ROADS FALLING WITHIN THE SCOPE OF THE FUTURE STREET RENEWAL PROJECT, WHICH ARE LEILA AVENUE (BETWEEN MCPHILLIPS STREET AND MCGREGOR STREET) AND MCPHILLIPS STREET, THE PAVEMENT, CURBS AND SIDEWALKS SHALL BE RESTORED WITH TEMPORARY ASPHALT, OR WITH TEMPORARY CONCRETE (IF DONE IN COLD WEATHER).
- FOR ANY EXISTING GAS LINES THAT ARE IN CONFLICT WITH OR IN CLOSE PROXIMITY TO EXCAVATIONS AND SHAFTS THE CONTRACTOR SHALL ENSURE THAT SUITABLE TEMPORARY SUPPORT OF THE GAS LINES IS PROVIDED AS PER MANITOBA HYDRO STANDARD DETAIL "TEMPORARY SUPPORT FOR EXCAVATED GAS PIPELINES" (SD.610.10).



LOCATION APPROVED UNDERGROUND STRUCTURES  SUPV. U/G STRUCTURES COMMITTEE DATE  NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.	VERTICAL DATUM: CGVD28 (HT2.0 Geoid) HORIZONTAL DATUM: NAD83 (June 1990), Zone 14		ENGINEER'S SEAL  ORIGINAL DRAWING SEALED BY: M.A. IANKOVA-DEDOVA 2026/03/11	THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING SERVICES DIVISION  ARMSTRONG SEWER RELIEF WORKS CONTRACT 1  INDEX SHEET & GENERAL NOTES	SHEET 2 OF 46 CITY DRAWING NUMBER
	DESIGNED BY: MID CHECKED BY: TLE DRAWN BY: GEL APPROVED BY: RBO SCALE: HORIZONTAL AS NOTED VERTICAL AS NOTED		RELEASER FOR CONSTRUCTION DUANE BAKER DATE: 2026/03/12		CONSULTANT DRAWING NUMBER C1-02