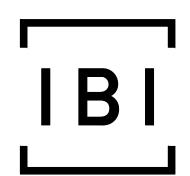
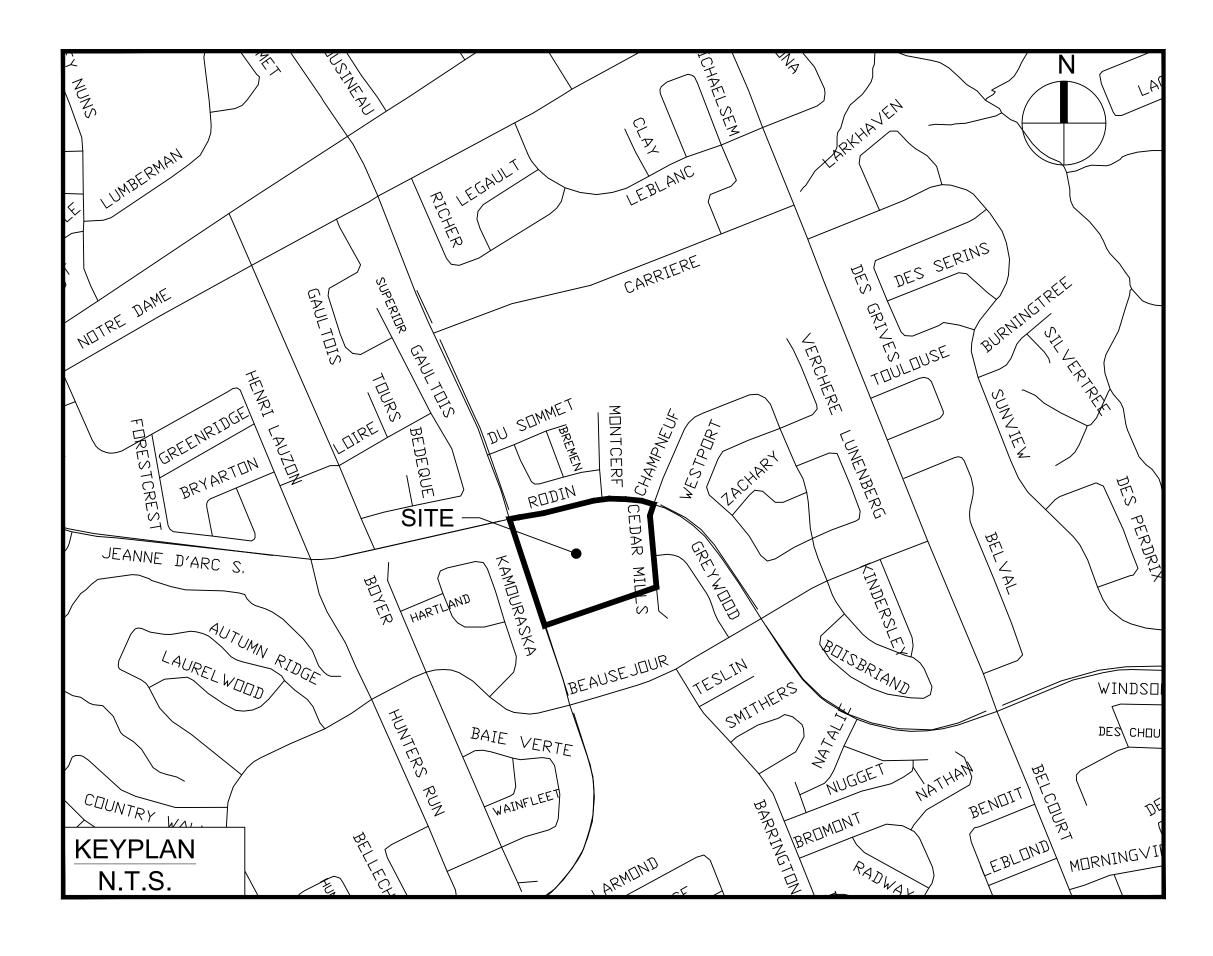
# NORTH AMERICAN DEVELOPMENT GROUP ORLEANS GARDENS



IBI GROUP

400 – 333 Preston Street

Ottawa ON K1S 5N4 Canada
tel 613 225 1311 fax 613 225 9868
ibigroup.com

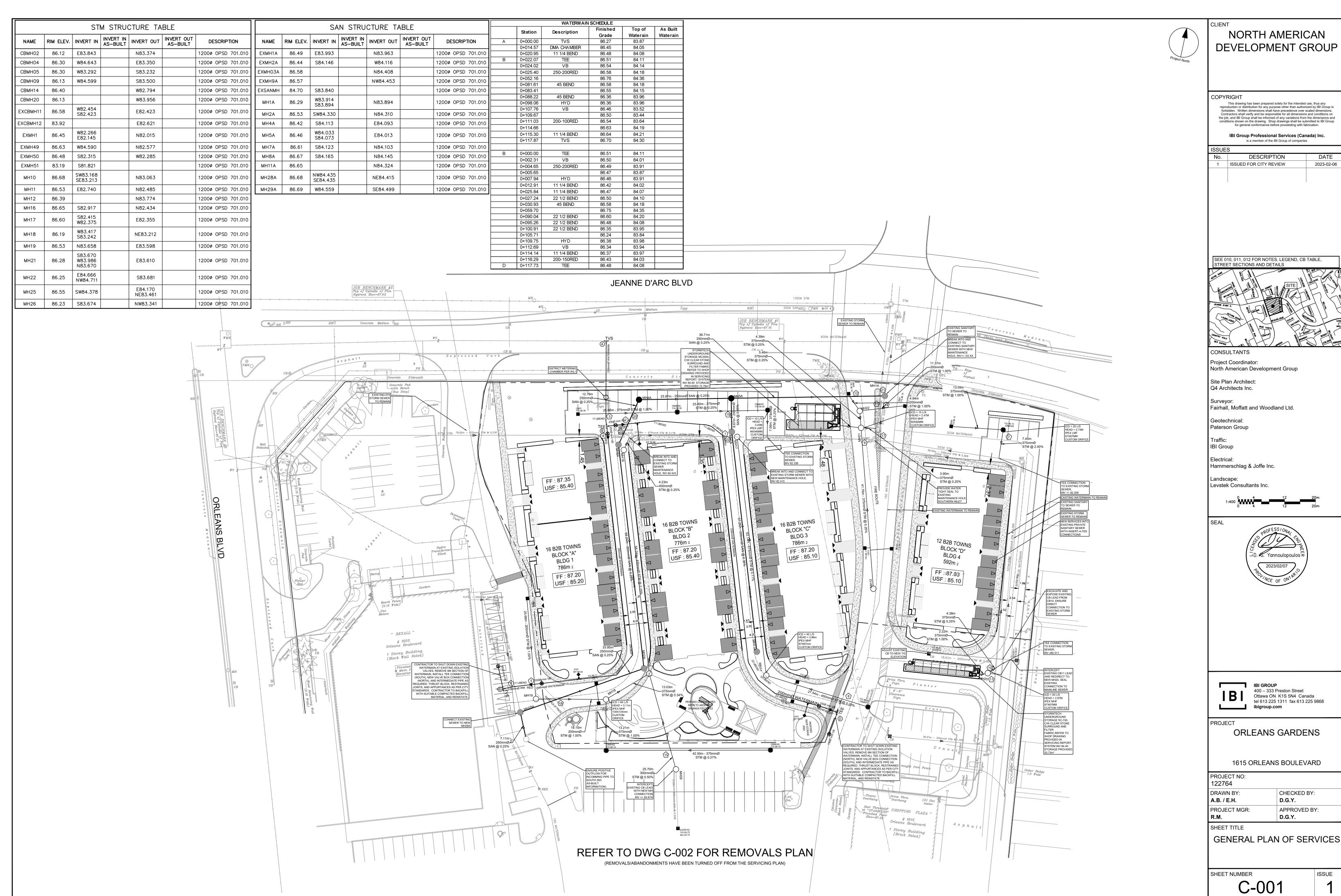


Sheet List Table		
Sheet Number	Sheet Title	
000	Cover	
C-001	GENERAL PLAN OF SERVICES	
C-002	REMOVAL PLAN	
C-010	DETAILS AND NOTES	
C-011	STREET SECTIONS	
C-200	GRADING PLAN	
C-400	SANITARY DRAINAGE AREA PLAN	
C-401	EXTRENAL SANITARY DRAINAGE AREA PLAN	
C-500	STORM DRAINAGE AREA PLAN	
C-501	EXTRENAL STORM DRAINAGE AREA PLAN	
C-600	PONDING PLAN	
C-900	SEDIMENT-EROSION PLAN	

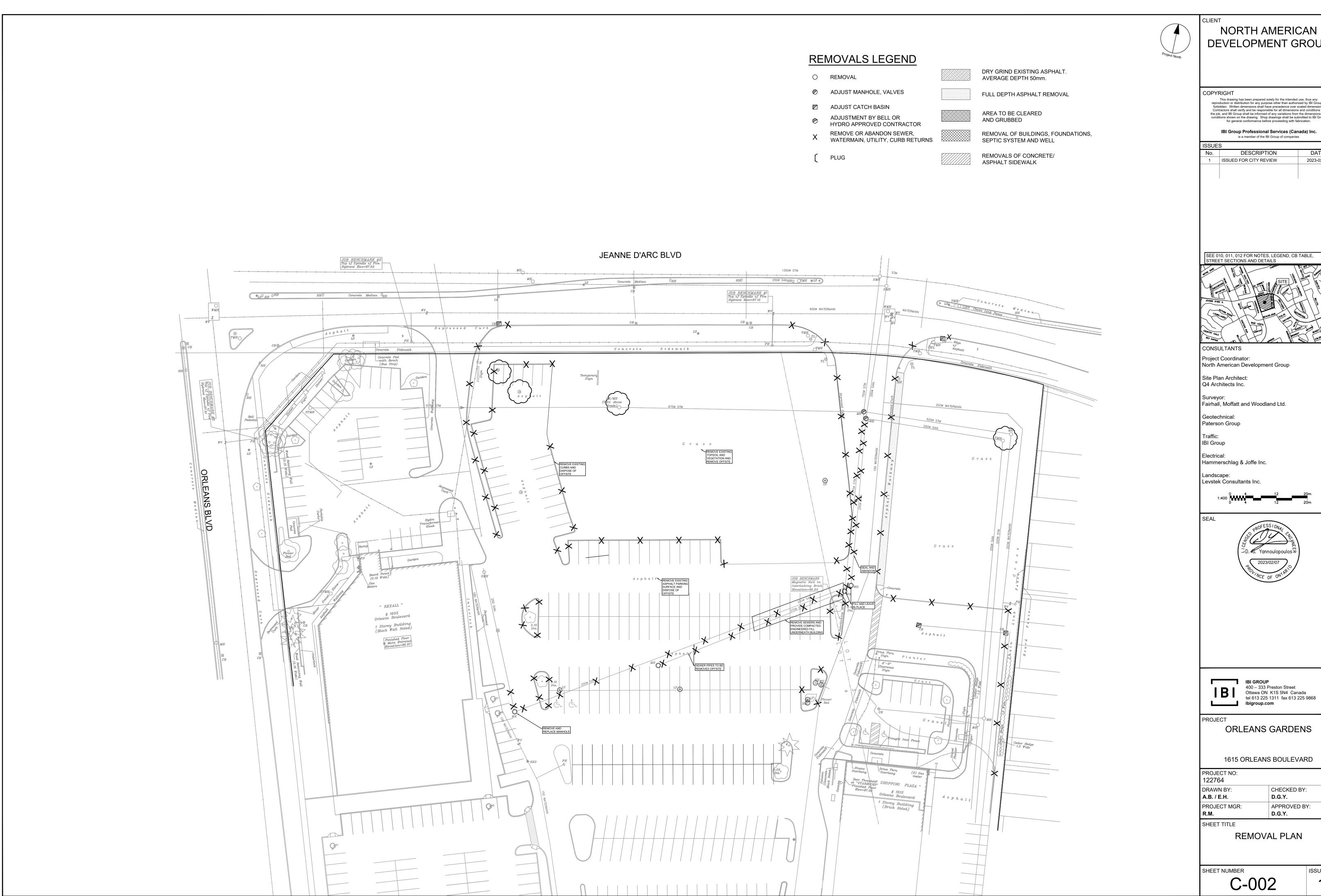
1615 ORLEANS BOULEVARD

CITY OF OTTAWA

CONTRACT NO. 122764



SCALE CHECK
SCALE CHECK
1 in 10mm
File Location: J:\122764\_OrlnsGardens\7.0\_



NORTH AMERICAN DEVELOPMENT GROUP

This drawing has been prepared solely for the intended use, thus any reproduction or distribution for any purpose other than authorized by IBI Group is forbidden. Written dimensions shall have precedence over scaled dimensions. Contractors shall verify and be responsible for all dimensions and conditions on the job, and IBI Group shall be informed of any variations from the dimensions and conditions shown on the drawing. Shop drawings shall be submitted to IBI Group for general conformance before proceeding with fabrication.

ISSUES			
No.	DESCRIPTION	DATE	
1	ISSUED FOR CITY REVIEW	2023-02-06	





A.B. / E.H.	D.G.Y.
DRAWN BY:	CHECKED BY:
122764	
PROJECT NO:	

### **GENERAL LEGEND**

	LIMIT OF CONSTRUCTION
	PHASING LINE
	BARRIER CURB
	MOUNTABLE CURB
	DEPRESSED BARRIER CURB
CONCRETE SIDEWALK	CONCRETE SIDEWALK
	– TACTILE WALKING SURFACE INDICATOR
ASPHALT SIDEWALK	ASPHALT SIDEWALK / PATHWAY
BUS	BUS STOP CONCRETE / ASPHALT

# SERVICING LEGEND

O MH118A	SANITARY MANHOLE
200mmØ SAN	SANITARY SEWER
MH109 MH118	STORM MANHOLE
825mmØ STM	STORM SEWER - LESS THAN 900Ø
900mmØ STM	STORM SEWER - 900Ø AND GREATER
200Ø WATERMAIN	WATERMAIN
☐ CB100 T/G 104.10	STREET CATCHBASIN C/W TOP OF GRATE
CICB101	CURB INLET CATCHBASIN C/W GUTTER GRADE
G/G 104.25 DCB100	DOUBLE CATCHBASIN C/W TOP OF GRATE
T/G 104.10 DCICB101	DOUBLE CURB INLET CATCHBASIN C/W GUTTER GRADE
G/G 104.25 DI101 T/G 103.59	DITCH INLET MANHOLE C/W TOP OF GRATE
CBMH101	CATCHBASIN MANHOLE C/W TOP OF GRATE
— RYCB	REAR YARD CATCHBASIN IN ROAD CONNECTING STRUCTURE
T/G 104.35	C/W SOLID GRATE
— T/G 104.35 NV 103.35	REAR YARD "TEE" CATCHBASIN (300Ø) C/W TOP OF GRATE AND INVERT OUT
OT/G 104.50 INV 103.50	REAR YARD "END" CATCHBASIN (300Ø) C/W TOP OF GRATE AND INVERT OUT
T/G 104.35 NV 103.35	REAR YARD "CUSTOM ANGLED " CATCHBASIN (450Ø) C/W TOP OF GRATE AND INVERT OUT
T/G 104.35 NV 103.35	REAR YARD "THREE WAY" CATCHBASIN (450Ø) C/W TOP OF GRATE AND INVERT OUT
	PERFORATED REAR YARD SUBDRAIN
300mmØ CSP	CSP CULVERT C/W DIAMETER
<b>⊗</b> V&VB	VALVE AND VALVE BOX
<b>⊗</b> V&VC	VALVE AND VALVE CHAMBER
<b>→</b> □	PARK VALVE CHAMBER C/W SERVICE POST
◆ HYD 104.35	FIRE HYDRANT C/W BOTTOM OF FLANGE ELEVATION
200Ø WMRED 150Ø WM	WATERMAIN REDUCER
2 VBENDS	VERTICAL BEND LOCATION
<b>&gt;</b>	SIAMESE CONNECTION (IF REQUIRED)
	METER (IF REQUIRED)
(M) (RM)	REMOTE METER (IF REQUIRED)
<u>O</u>	WATERMAIN IDENTIFICATION (IF REQUIRED)
1	PIPE CROSSING IDENTIFICATION (IF REQUIRED)
$\triangleleft$	SINGLE SERVICE LOCATION
$\triangleleft$	DOUBLE SERVICE LOCATION
BH 12 102.00	INFERRED REFUSAL (SEE GEOTECHNICAL REPORT)
HGL 404.70	100 YEAR STORM HYDRAULIC GRADE LINE AT MANHOLE
101.79 USF	UNDERSIDE OF FOOTING ELEVATION
101.79	CLAY SEAL IN SEWER / WATERMAIN TRENCH

LEGEND - FAIRHALL, MOFFATT & WOODLAND LTD.

- DIAMETER

- MANHOLE

Ⅲ CB

 $\bigcirc$  MH

→ TMH

○ SMH

○ CB/MH

**≥** WV

—S—

- CATCH BASIN

- WATER MANHOLE

- TRAFFIC MANHOLE

- STORM MANHOLE

- WATER VALVE

- GAS METER - TRAFFIC LIGHT

- FIRE HYDRANT

- HAND HOLE

- BORE HOLE

- LAMP STANDARD

- CONIFEROUS TREE

- DECIDUOUS TREE

- HANDICAPED PARKING

- UNDERGROUND HYDRO

- UNDERGROUND BELL

- INTERLOCKING BRICK

- STORM SEWER

- SANITARY

- BOLLARD

- WATER

- GAS

- SIGN

- SANITARY MANHOLE

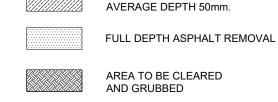
- CATHCH BASIN/MANHOLE

<b>REMOVALS</b>	<b>LEGEND</b>

	110 17 120 2202112
)	REMOVAL
)	ADJUST MANHOLE, VALVES
	ADJUST CATCH BASIN
]	ADJUSTMENT BY BELL OR HYDRO APPROVED CONTRACTOR
	REMOVE OR ABANDON SEWER,

WATERMAIN, UTILITY, CURB RETURNS

PLUG



REMOVAL OF BUILDINGS, FOUNDATIONS, SEPTIC SYSTEM AND WELL

REMOVALS OF CONCRETE/ ASPHALT SIDEWALK

DRY GRIND EXISTING ASPHALT.

MH 131

**RYCB** R-102 OPSD 705.010 S19 107.68

**RYCB** R-106 OPSD 705.010 S19 108.65

**RYCB** R-110 OPSD 705.010 S19 107.53

 RYCB
 R-111A
 OPSD 705.010
 S19
 105.09

 RYCB
 R-111B
 OPSD 705.010
 S19
 105.09

 RYCB
 R-112
 OPSD 705.010
 S19
 104.90

 RYCB
 R-113A
 OPSD 705.010
 S19
 104.71

 RYCB
 R-113B
 OPSD 705.010
 S19
 104.70

 RYCB
 R-119
 OPSD 705.010
 S19
 104.20

RYCB R-125 OPSD 705.010 S19 106.33

Bold font indicates CB's with ICD's

 RYCB
 R-131
 OPSD 705.010
 S19
 104.80

 RYCB
 R-201
 OPSD 705.010
 S19
 105.01

# WM STM Bottom 83.922 Top 83.161 STM WM Bottom 83.690 Top 83.439 SAN Bottom 84.442 wм Тор 84.192 WM STM Bottom 84.319 Top 83.898 WM 51M Bottom 84.109 Top 83.244 STM | STM Bottom 83.601 | Top 82.970 SAN STM Bottom 84.322 Top 83.905 SAN STM Bottom 84.328 Top 84.010

### NOTES:

**ORIFICE SIZE** 

 CB 104
 S119B
 OPSD 705.010
 S19
 104.22
 102.85
 250
 PVC DR-35
 1.495
 56.1
 Tempest HF

 CB 106
 CB 106
 OPSD 705.010
 S19
 104.12
 102.75
 250
 PVC DR-35
 1.495
 125.6
 Tempest HF

 CB 107
 OPSD 705.010
 S19
 104.12
 102.65
 102.55
 250
 PVC DR-35
 1.695
 125.6
 Tempest HF

 CB 108
 S120
 OPSD 705.010
 S19
 104.20
 102.83
 200
 PVC DR-35
 1.370
 33.4
 Tempest HF

 CB 108
 \$120
 OPSD 705.010
 \$19
 104.20
 102.83
 200
 PVC DR-35
 1.370
 33.4
 Tempest HF

 CB 109
 \$121
 OPSD 705.010
 \$19
 104.20
 102.83
 200
 PVC DR-35
 1.370
 23.4
 Tempest HF

 CB 138
 S125
 OPSD 705.010
 S19
 106.62
 105.15
 105.05
 250
 PVC DR-35
 1.445
 56.8
 Tempest HF

 CB 149
 OPSD 705.010
 S19
 106.62
 105.25
 200
 PVC DR-35
 1.270
 56.8
 Tempest HF

 CB 143
 S111B
 OPSD 705.010
 S19
 104.85
 103.38
 103.28
 250
 PVC DR-35
 1.525
 PVC DR-35
 1.525

 CB 143
 S111B
 OPSD 705.010
 S19
 104.70
 103.33
 250
 PVC DR-35
 1.295
 37.8
 Tempest HF

 CB 145
 OPSD 705.010
 S19
 104.50
 103.13
 250
 PVC DR-35
 1.345
 100.9
 Tempest HF

 CB 146
 OPSD 705.010
 S19
 104.50
 103.03
 102.93
 250
 PVC DR-35
 1.545
 100.9
 Tempest HF

S122 OPSD 705.010 S19 106.62 105.25 200 PVC DR-35 1.270
OPSD 705.010 S19 108.23 106.86 200 PVC DR-35 1.270
OPSD 705.010 S19 108.23 106.76 106.66 250 PVC DR-35 1.445

49.2 Tempest HF

 S111A
 OPSD 705.010
 S19
 104.85
 103.48
 250
 PVC DR-35
 1.325
 78.5
 Tempest HF

CB 145
CB 146
CB 147
CB 148
CB 147
CB 148
CB 150
CB 150
CB 150
CB 151
CB 151
CB 152
CB 152
CB 152
CB 152
CB 153
CB 152
CB 153
CB 153
CB 154
CB 155
CB 155
CB 155
CB 155
CB 156
CB 157
CB 158
CB

| INTERIM (TEMPORARY) | 104.40 | 98.47 | CONC | 5.934 | n/a | Custom | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 | 0.175 |

RYCB R-101A OPSD 705.010 S19 107.42 106.05 200 PVC DR-35 1.270 165.3 Custom 0.054 233 263

104.85 200 PVC DR-35 2.730 216.3 Custom 0.048 220 248

103.00 200 PVC DR-35 1.610 198.9 Custom 0.058 241 272

102.83 200 PVC DR-35 1.270 266.4 Custom 0.087 296 334

Pipe Interference Table

SAN WM Bottom 84.122 Top 83.872

STM SAN
Bottom 84.720 Top 84.168

STM STM STM Bottom 83.877 Top 83.625

SAN SIM Bottom 83.947 Top 82.762

SAN STM Bottom 84.382 Top 83.749

SAN STM
Bottom 84.078 Top 83.766

STM SAN SAN Top 84.380

SAN STM Bottom 83.909 Top 82.726

SAN STM
Bottom 84.122 Top 83.073

SAN STM
Bottom 84.130 Top 83.153

Bottom 83.953

PIPE 2

Clearance

0.250

0.682

0.251

0.865

0.631

0.318

0.552

0.252

1.185

0.633

0.302

105.16 200 PVC DR-35 1.270 205.5 Custom 0.067

102.85 | 200 | PVC DR-35 | 1.700 | 297.2 | Custom | 0.084

107.20 200 PVC DR-35 1.350 46.0 Tempest HF

106.16 200 PVC DR-35 1.270 121.3 Tempest HF

 103.65
 200
 PVC DR-35
 1.340
 74.0
 Tempest HF

 103.72
 200
 PVC DR-35
 1.270
 62.8
 Tempest HF

 103.53
 200
 PVC DR-35
 1.270
 289.4
 Custom
 0.095

103.15 200 PVC DR-35 1.450 91.3 Tempest HF

104.93 200 PVC DR-35 1.300 62.0 Tempest HF

103.43 200 PVC DR-35 1.270 39.2 Tempest HF 103.64 200 PVC DR-35 1.270 34.50 Tempest HF

| CB 108 | S120 | OPSD 705.010 | S19 | 104.20 | 102.83 | 200 | PVC DR-35 | 1.370 | 33.4 | Tempest HF | CBMH 110 | CBMH 110 | CSD 705.010 | S19 | 103.39 | 101.92 | 101.82 | 250 | PVC DR-35 | 1.455 | 60.3 | Tempest HF | CBMH 110 | CBMH 120 | CB

- 1. ALL MATERIALS AND CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE CURRENT CITY OF OTTAWA STANDARD DRAWINGS & SPECIFICATIONS OR OPSD/OPSS IF CITY DRAWINGS AND SPECIFICATIONS DO NOT
- 2. THE POSITION OF UNDERGROUND AND ABOVEGROUND SERVICE, UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS. AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH SERVICE, UTILITIES AND STRUCTURES IS NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING SERVICES AND UTILITIES PRIOR TO CONSTRUCTION.
- 3. THE CONTRACTOR SHALL REPORT ALL CONFLICTS, DISCOVERIES OF ERROR AND DISCREPANCIES TO THE
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT AND ASSUME RESPONSIBILITY FOR ALL UTILITIES WHETHER OR NOT SHOW ON THESE DRAWINGS.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL LANDS BEYOND THE SITE LIMITS. ANY AREAS BEYOND THE SITE LIMITS. WHICH ARE DISTURBED DURING CONSTRUCTION. SHALL BE REPAIRED AND RESTORED TO ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE ADJACENT LAND OWNER, THE OWNER, THE OWNERS REPRESENTATIVES AND/OR THE AUTHORITY HAVING JURISDICTION AT THE
- EXPENSE OF THE CONTRACTOR. 6. WHERE NECESSARY, THE CONTRACTOR SHALL IMPLEMENT A TRAFFIC MANAGEMENT PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA. ALL CONSTRUCTION SIGNAGE MUST CONFORM TO THE LATEST VERSION OF THE M.T.O. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ALL TEMPORARY TRAFFIC
- 7. SHOULD ANY BURIED ARCHAEOLOGICAL REMAINS BE FOUND ON THE PROPERTY DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL NOTIFY THE OWNER TO CONTACT THE HERITAGE OPERATIONS UNIT OF THE ONTARIO MINISTRY OF CULTURE MUST BE NOTIFIED IMMEDIATE, AND WORK WITHIN THE AREA SHALL BE CEASED UNTIL FURTHER NOTICE.
- 8. FOR GEOTECHNICAL INFORMATION REFER TO GEOTECHNICAL REPORT PG3068-1 PREPARED BY PATERSON
- 9. FOR GEODETIC BENCHMARK AND GEOMETRIC LAYOUT OF STREET AND LOTS, REFER TO TOPOGRAPHICAL SURVEY AND PLAN OF SUBDIVISION PREPARED BY FAIRHALL, MOFFATT & WOODLAND LIMITED BENCHMARK BASED ON CAN--NET VIRTUAL REFERENCE SYSTEM NETWORK.
- 10. FOR SITE PLAN INFORMATION, REFER TO SITE PLAN PREPARED BY Q4 ARCHITECTS INC.

CONTROL MEASURES MUST BE REMOVED UPON THE COMPLETION OF THE WORKS.

- 11. FOR NOISE ATTENUATION PLAN REFER TO N1 PREPARED BY IBI GROUP
- 12. THESE DRAWINGS ARE NOT TO BE SCALED OR USED FOR LAYOUT PURPOSES
- 13. ROADWAY SECTIONS REQUIRING GRADE RAISE TO PROPOSED SUB GRADE LEVEL TO BE FILLED WITH ACCEPTABLE NATIVE EARTH BORROW OR IMPORTED OPSS SELECTED SUBGRADE MATERIAL IF NATIVE MATERIAL IS DEFICIENT AS PER RECOMMENDATION OF GEOTECHNICAL ENGINEER.
- 14. IN AREAS WHERE EXISTING GROUND IS BELOW THE PROPOSED ELEVATION OF SEWER AND WATERMAINS, GRADE RAISING AND FILLING IS TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT. AS PER CITY GUIDELINES ALL WATERMAINS IN FILL AREAS ARE TO BE TIED WITH RESTRAINING JOINTS AND THRUST BLOCKS.
- 15. REFER TO DRAWING C-011 FOR ROADWAY CROSS SECTIONS (IF APPLICABLE).
- 16. THE CONTRACTOR SHALL IMPLEMENT THE EROSION AND SEDIMENT CONTROL PLAN PRIOR TO THE COMMENCEMENT OF ANY SITE CONSTRUCTION. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED TO THE SATISFACTION OF THE ENGINEER, OR ANY REGULATORY AGENCY. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL VEGETATION IS ESTABLISH OR UNTIL THE START OF A SUBSEQUENT PHASE.
- 17. CONTRACTORS SHALL BE RESPONSIBLE FOR KEEPING CLEAN ALL ROADS WHICH BECOME COVERED IN DUST, DEBRIS AND/OR MUD AS A RESULT OF ITS CONSTRUCTION OPERATIONS
- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL BEDDING OR ADDITIONAL STRENGTH PIPE SHOULD THE MAXIMUM OPSD TRENCH WIDTH BE EXCEEDED.
- 19. ALL PIPE, CULVERTS, STRUCTURES REFER TO NOMINAL INSIDE DIMENSIONS.
- 20. SHOULD CLAY SEALS BE REQUIRED, THEY SHALL BE INSTALLED AS PER THE RECOMMENDATIONS WITHIN THE
- GEOTECHNICAL REPORT.
- 21. UNLESS SPECIFICALLY NOTED OTHERWISE, PIPE MATERIALS SHALL BE AS FOLLOWS;
- -WATERMAINS TO BE PVC DR18 -SANITARY SEWER TO BE PVC DR35
- -PERFORATED STORM SEWERS IN REAR YARDS AND LANDSCAPE AREAS TO BE HDPE -STORM SEWERS 375MM DIAMETER AND LESS TO BE PVC DR35 -STORM SEWERS 450MM DIAMETER AND GREATER TO BE CONCRETE, CLASS AS PER OPSD 807.010 OR
- 22. ALL CONNECTIONS TO EXISTING WATERMAINS ARE TO BE COMPLETED BY CITY FORCES. CONTRACTOR IS TO EXCAVATE, BACKFILL, COMPACT AND REINSTATE.
- 23. ANY WATERMAIN WITH LESS THAN 2.4M, AND ANY SEWER WITH LESS THAN 2.0M DEPTH OF COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.
- 24. ALL FIRE HYDRANTS AS PER CITY STANDARD W19, c/w 150mmØ LEAD UNLESS OTHERWISE SPECIFIED.
- 25. ALL STUBBED SEWERS SHALL HAVE PRE-MANUFACTURED CAPS INSTALLED.
- 26. ALL CATCHBASINS SHALL HAVE A 600MM SUMP. ALL CATCHBASIN MANHOLES. AND ALL STORM MANHOLES. WITH OUTLETTING PIPE SIZES LESS THAN 900MM, SHALL HAVE A 300MM SUMP.
- 27. ALL SANITARY MANHOLES SHALL BE EQUIPPED WITH A WATERTIGHT COVER.
- 28. ALL LEADS FOR STREET CATCHBASIN'S AND CURB INLET CATCHBASIN'S CONNECTED TO MAIN SHALL BE 200MMØ PVC DR35 @ MIN 2% SLOPE UNLESS NOTED OTHERWISE. ALL LEADS FOR RYCB'S CONNECTED TO MAIN SHALL BE 200MMØ PVC DR35 @ MIN 1% SLOPE UNLESS NOTED OTHERWISE.
- 29. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL STREET CATCHBASINS SHALL BE INSTALLED WITH TWO 3.0M MINIMUM SUBDRAINS INSTALLED LONGITUDINALLY, PARALLEL WITH THE CURB. ALL CATCHBASINS IN ASPHALT AREAS, NOT ADJACENT TO A CURB, SHALL BE INSTALLED WITH FOUR - 3.0M MINIMUM SUBDRAINS INSTALLED ORTHOGONALLY.
- 30. INLET CONTROL DEVICES SHALL BE INSTALLED PRIOR TO COMPLETING THE ROAD BASE (GRANULAR A).
- 31. ALL SEWER SERVICE LATERALS WITH MAINLINE CONNECTIONS DEEPER THAN 5.0M REQUIRE A CONTROLLED SETTLEMENT JOINT.
- 32. EACH BUILDING SHALL BE EQUIPPED WITH A SANITARY AND STORM SEWER BACKWATER VALVE AND CLEAN-OUT ON ITS PRIMARY SERVICE. AS PER ONTARIO BUILDING CODE REQUIREMENTS (BY OTHERS)
- 33. THE SUBGRADE OF ALL STRUCTURES, PIPE, ROADS, SIDEWALKS, WALKWAYS, AND BUILDINGS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION
- 34. TOP COURSE ASPHALT SHALL NOT BE PLACED UNTIL THE FINAL CCTV INSPECTION AND NECESSARY REPAIRS
- HAVE BEEN COMPLETED TO THE SATISFACTION OF THE ENGINEER AND THE CITY OF OTTAWA. 35. ALL RETAINING WALLS GREATER THAN 1.0M IN HEIGHT SHALL BE DESIGNED BY A QUALIFIED STRUCTURAL
- 36. ALL RETAINING WALLS GREATER THAN 0.6M IN HEIGHT REQUIRE A GUARD. ANY GUARD ON A RETAINING
- WALL GREATER THAN 1.0M IN HEIGHT SHALL BE DESIGNED BY THE QUALIFIED STRUCTURAL ENGINEER RESPONSIBLE FOR THE WALL DESIGN.
- 37 LIPON COMPLETION OF THE RETAINING WALL, THE CONTRACTOR SHALL REQUEST A CONFORMANCE CERTIFICATE FROM THE QUALIFIED ENGINEER RESPONSIBLE FOR THE WALL DESIGN.

# **ROADWAY STRUCTURE:**

CAR ONLY PARKING AREA: (500mm)

50mm - SUPERPAVE 12.5 ASPHALTIC CONCRETE 150mm - OPSS GRANULAR "A" CRUSHED STONE 300mm - OPSS GRANULAR "B" TYPE II

PRIVATE ROADWAY & MAIN DRIVE AISLE ROADS :(690mm)

- SUPERPAVE 12.5 ASPHALTIC CONCRETE - SUPERPAVE 19.0 ASPHALTIC CONCRETE - OPSS GRANULAR "A" CRUSHED STONE - OPSS GRANULAR "B" TYPE II

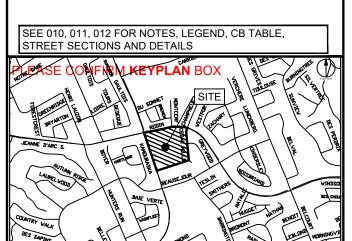
NORTH AMERICAN **DEVELOPMENT GROUP** 

COPYRIGHT

This drawing has been prepared solely for the intended use, thus any reproduction or distribution for any purpose other than authorized by IBI Group is forbidden. Written dimensions shall have precedence over scaled dimensions. Contractors shall verify and be responsible for all dimensions and conditions on the job, and IBI Group shall be informed of any variations from the dimensions and conditions shown on the drawing. Shop drawings shall be submitted to IBI Group for general conformance before proceeding with fabrication.

IBI Group Professional Services (Canada) Inc. is a member of the IBI Group of companies

ISSUES			
No.	DESCRIPTION	DATE	
1	ISSUED FOR CITY REVIEW	2023-02-06	



CONSULTANTS Project Coordinator: North American Development Group

Site Plan Architect: Q4 Architects Inc.

Surveyor: Fairhall, Moffatt and Woodland Ltd.

Geotechnical: Paterson Group

IBI Group

Electrical: Hammerschlag & Joffe Inc.

Levstek Consultants Inc.



IBI GROUP 400 – 333 Preston Street Ottawa ON K1S 5N4 Canada

tel 613 225 1311 fax 613 225 9868 ibigroup.com

PROJECT ORLEANS GARDENS

1615 ORLEANS BOULEVARD

PROJECT NO: 122764 DRAWN BY: CHECKED BY: A.B. / E.H. R.M./D.G.Y. PROJECT MGR: APPROVED BY: D.G.Y.

SHEET TITLE

GENERAL NOTES. LEGEND AND CB DATA TABLE

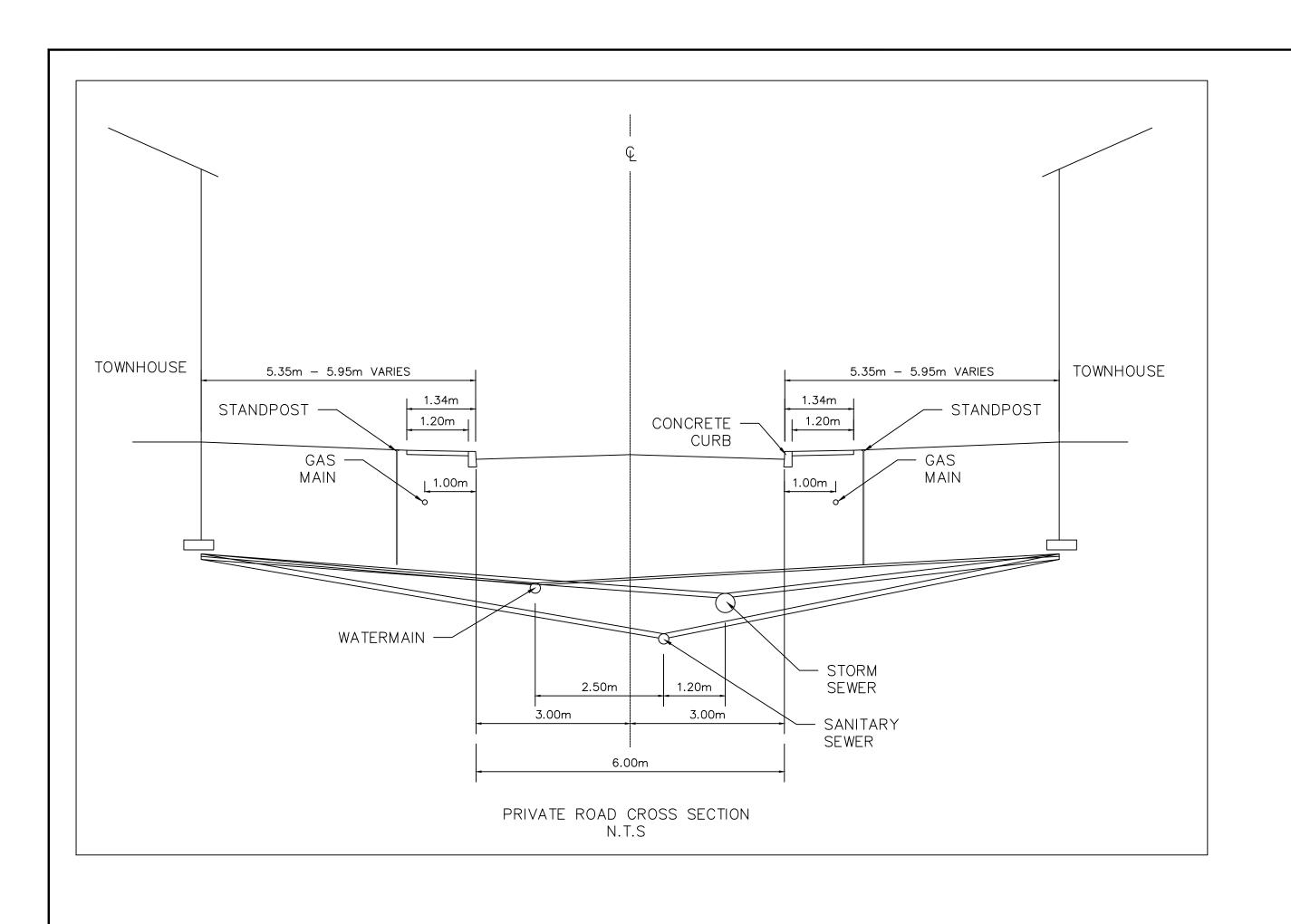
SHEET NUMBER

CITY PLAN No. xxxxx

D07

Š.

<u>-</u>Щ



CLIENT NORTH AMERICAN DEVELOPMENT GROUP COPYRIGHT This drawing has been prepared solely for the intended use, thus any reproduction or distribution for any purpose other than authorized by IBI Group is forbidden. Written dimensions shall have precedence over scaled dimensions. Contractors shall verify and be responsible for all dimensions and conditions on the job, and IBI Group shall be informed of any variations from the dimensions and conditions shown on the drawing. Shop drawings shall be submitted to IBI Group for general conformance before proceeding with fabrication. IBI Group Professional Services (Canada) Inc. is a member of the IBI Group of companies DESCRIPTION 1 ISSUED FOR CITY REVIEW SEE 010, 011, 012 FOR NOTES, LEGEND, CB TABLE, STREET SECTIONS AND DETAILS CONSULTANTS Project Coordinator: North American Development Group Site Plan Architect: Q4 Architects Inc. Surveyor: Fairhall, Moffatt and Woodland Ltd. Geotechnical: Paterson Group Traffic: IBI Group Electrical: Hammerschlag & Joffe Inc. Landscape: Levstek Consultants Inc. IBI GROUP

400 – 333 Preston Street
Ottawa ON K1S 5N4 Canada
tel 613 225 1311 fax 613 225 9868
ibigroup.com ORLEANS GARDENS 1615 ORLEANS BOULEVARD PROJECT NO: 122764 DRAWN BY: A.B. / E.H. PROJECT MGR:

DATE

2023-02-06

CITY PLAN No. xxxxx

ISSUE

STREET SECTIONS

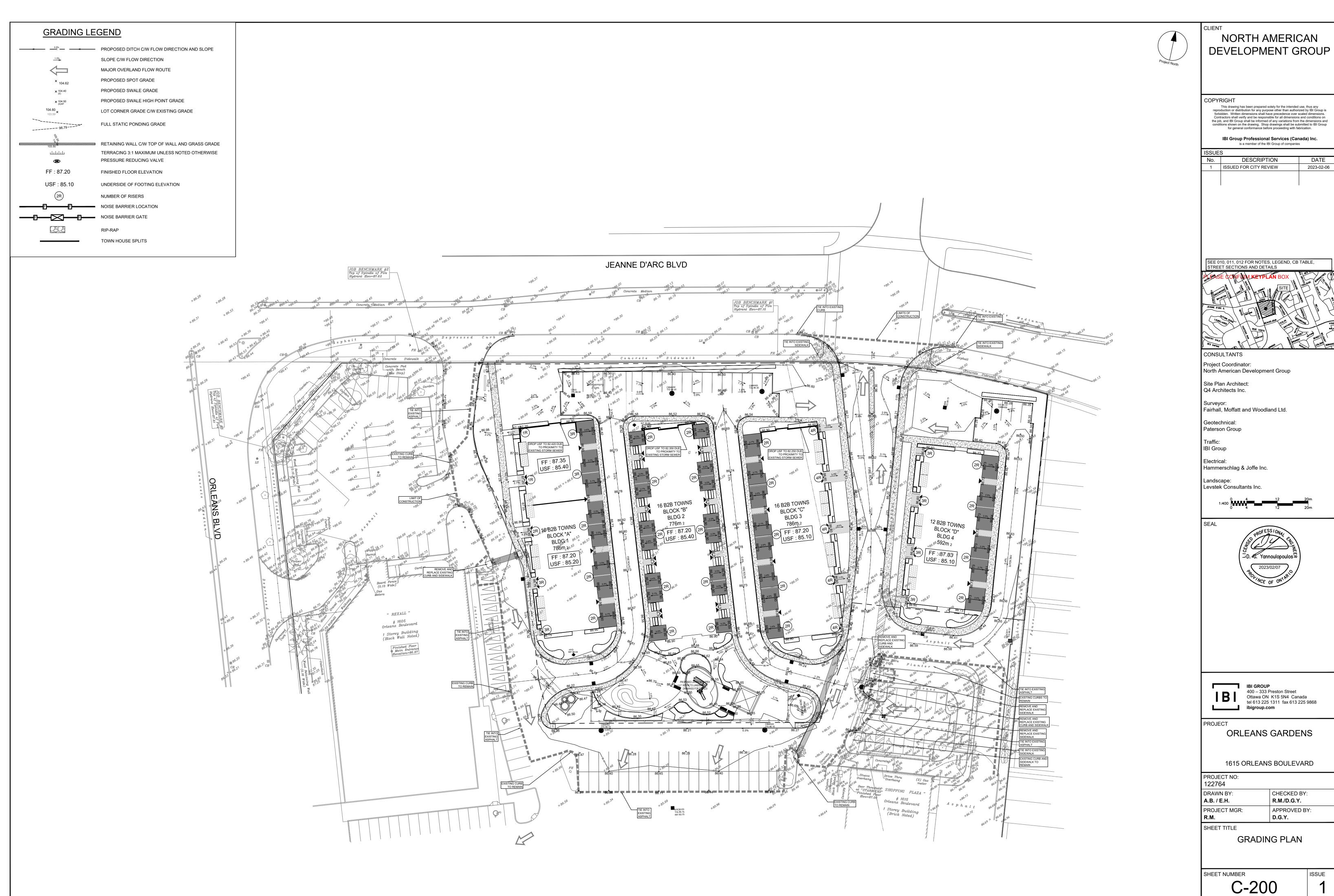
C-011

CHECKED BY: R.M./D.G.Y.

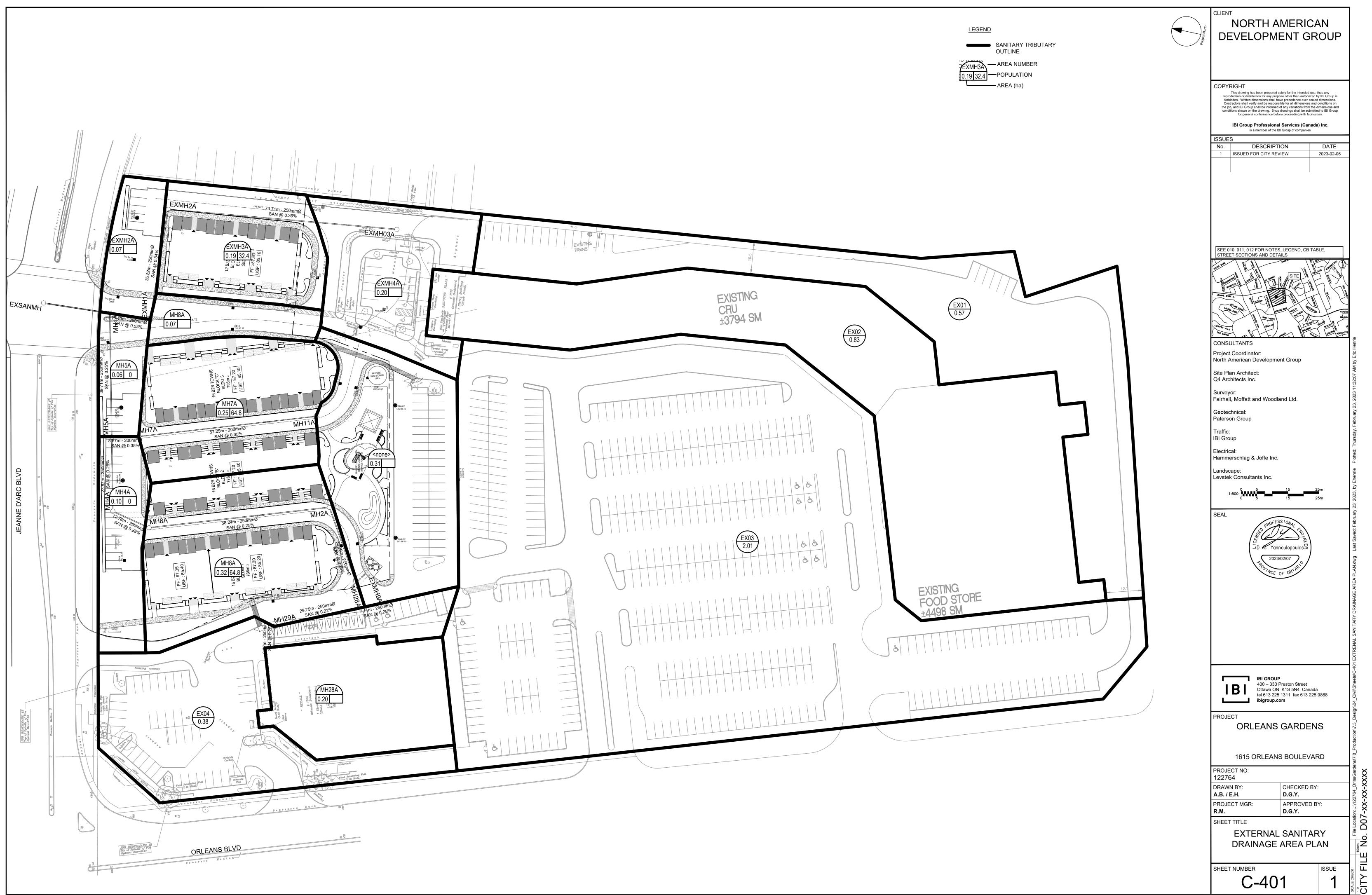
APPROVED BY: D.G.Y.

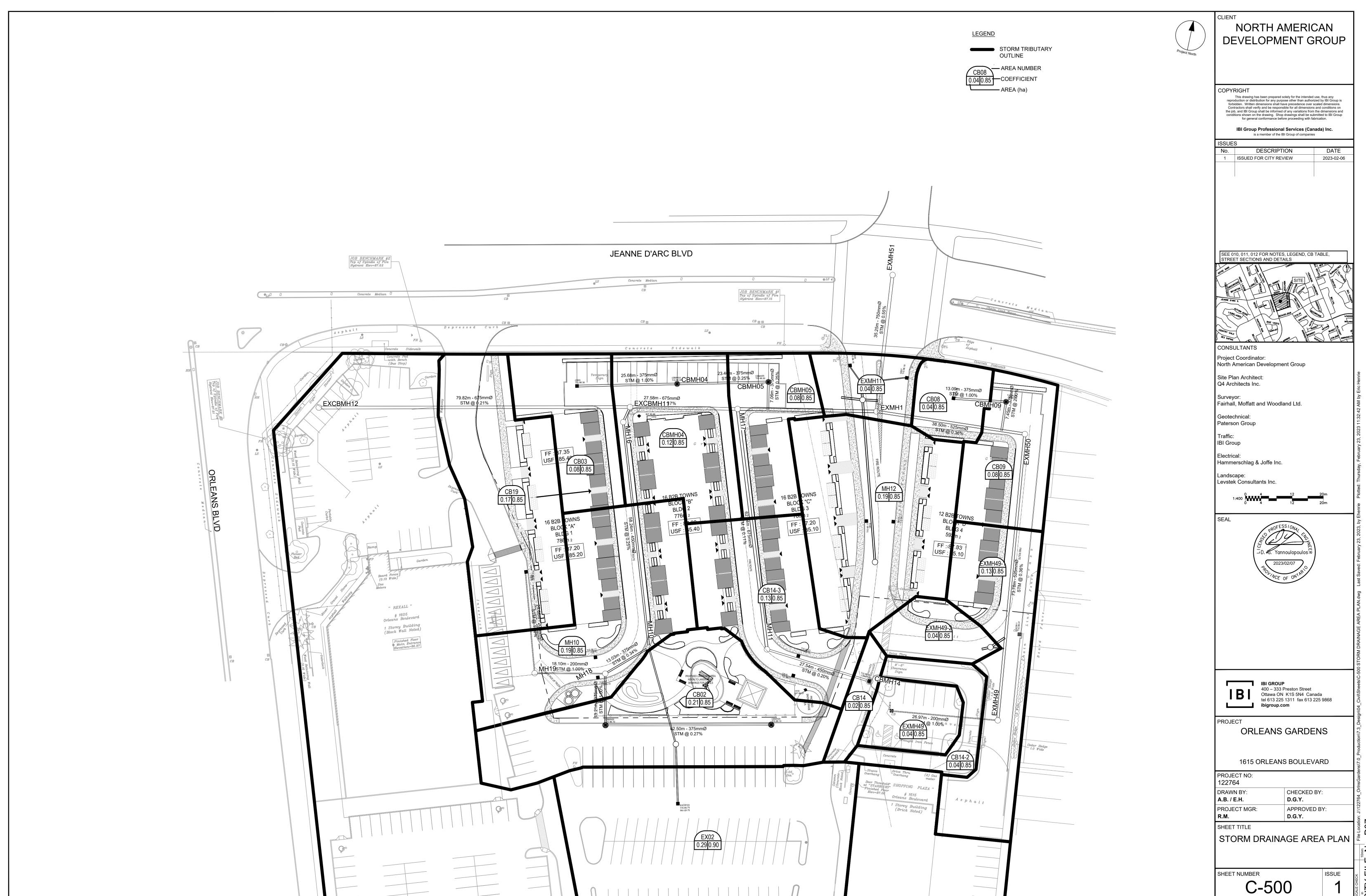
SHEET TITLE

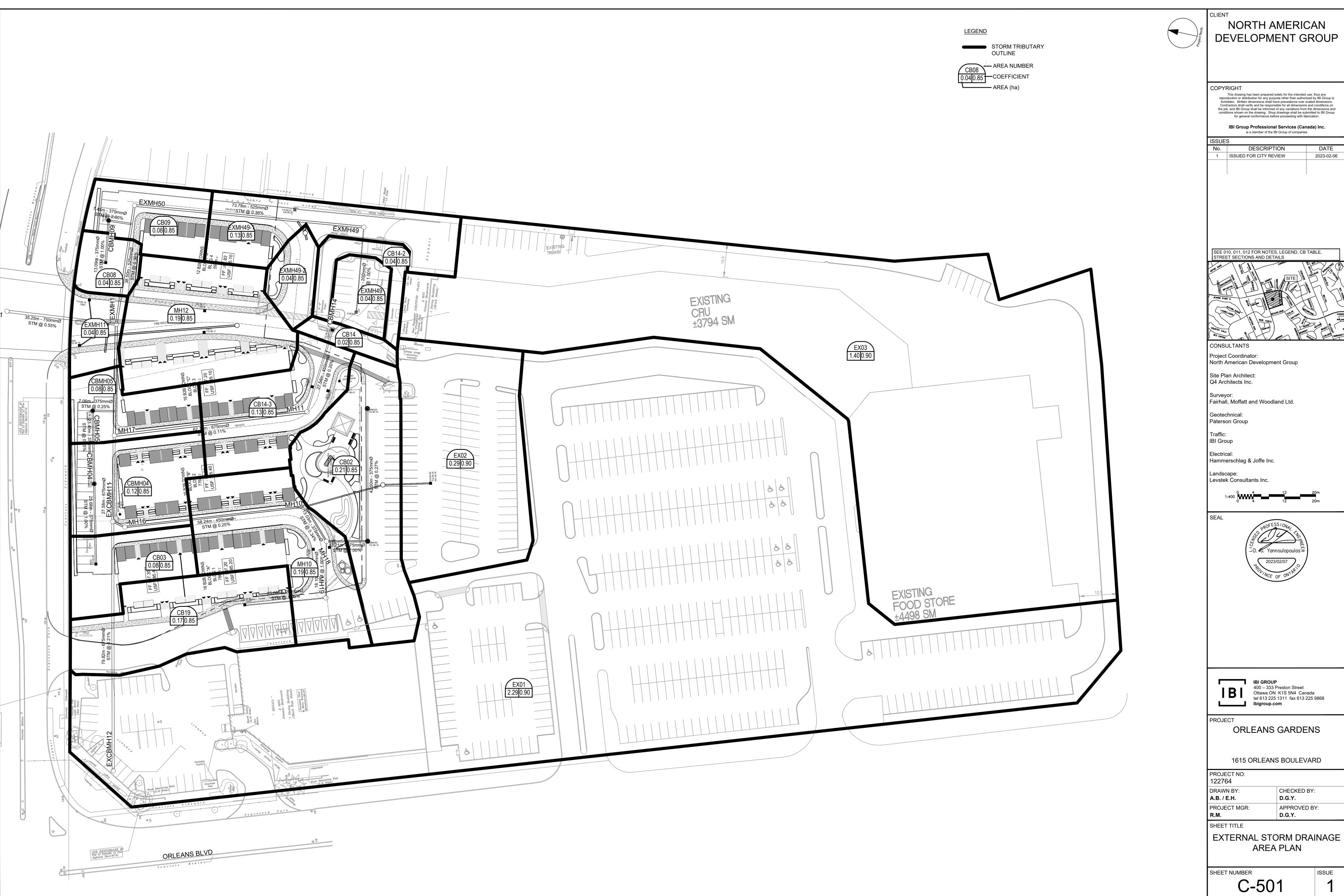
SHEET NUMBER

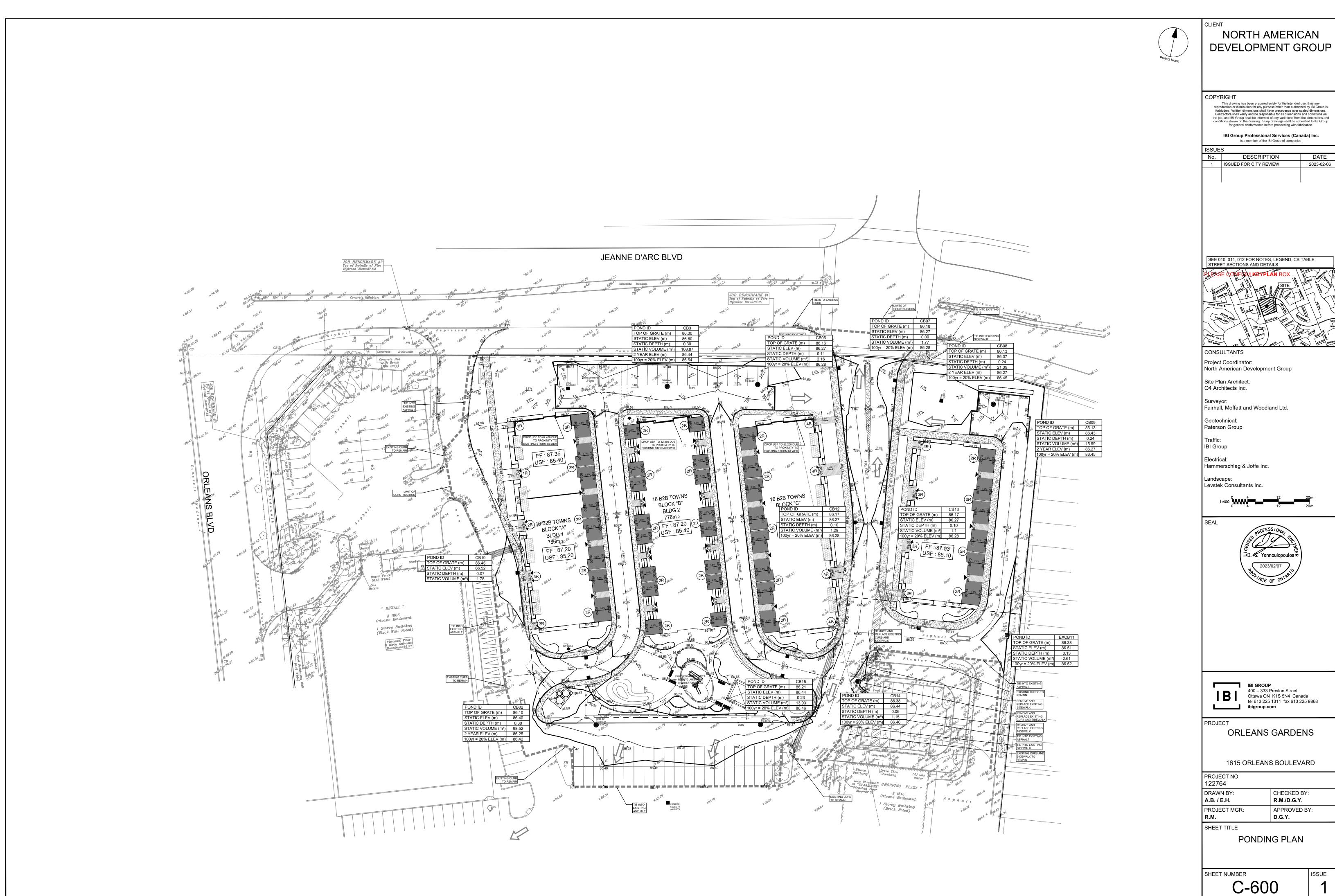


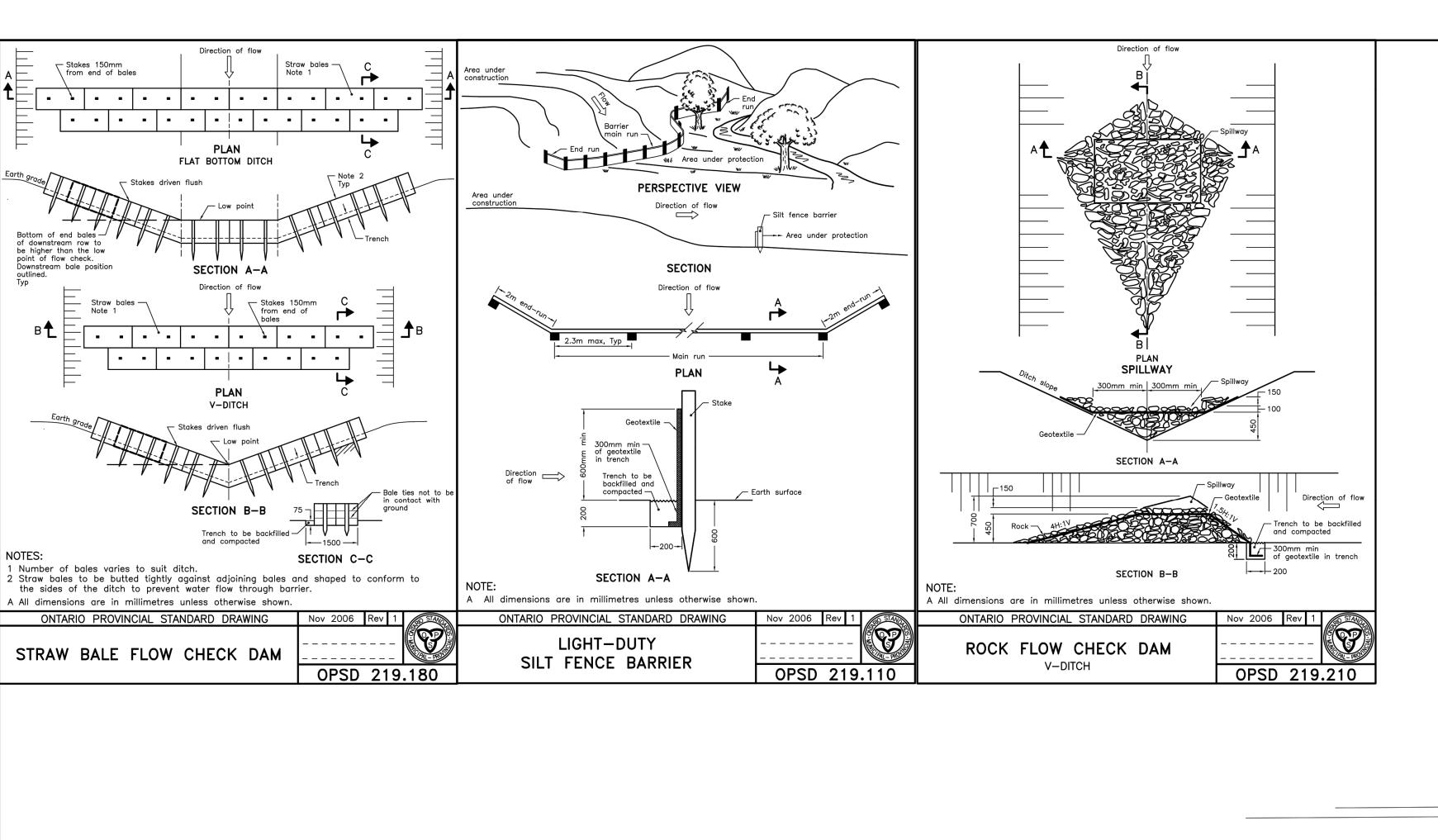












CONTINUOUS FILTER FABRIC-

ON BACK SIDE OF FILTER FABRIC TO HOLD DOWN TOP LOOP

CONTINUOUS SANDBAGS

THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY,

NOTES:

- 1. SILT FENCE TO BE ERECTED PRIOR TO EARTH WORKS BEING COMMENCED. SILT FENCE TO BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED OR UNTIL START OF SUBSEQUENT PHASE.
- 2. STRAW BALE SEDIMENT TRAPS TO BE CONSTRUCTED IN EXISTING ROAD SIDE DITCHES. TRAPS TO REMAIN AND BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED.
- 3. SILT SACK TO BE PLACED AND MAINTAINED UNDER COVER OF ALL CATCHBASINS. GEOTEXTILE SILT SACK IN STREET CBs TO REMAIN UNTIL ALL CURBS ARE CONSTRUCTED. GEOTEXTILE FABRIC IN RYCBs TO REMAIN UNTIL VEGETATION IS ESTABLISHED. ALL CATCHBASINS TO BE REGULARLY INSPECTED AND CLEANED, AS NECESSARY, UNTIL SOD AND CURBS ARE CONSTRUCTED.
- 4. CONTRACTOR TO PROVIDE DETAILS ON LOCATION(S) AND DESIGN OF DEWATERING TRAP(S) PRIOR TO COMMENCING WORK. CONTRACTOR ALSO RESPONSIBLE FOR MAINTAINING TRAP(S) AND ADJUSTING SIZE(S) IF DEEMED REQUIRED BY THE ENGINEER DURING CONSTRUCTION.
- 5. CONTRACTOR TO PROTECT EXISTING CATCHBASINS WITH FILTER CLOTH UNDER THE COVERS TO TRAP SEDIMENTATION. REFER TO IDENTIFIED STRUCTURES.
- 6. WORKS NOTED ABOVE ARE TO BE INSTALLED, INSPECTED, MAINTAINED AND ULTIMATELY REMOVED BY SERVICING CONTRACTOR.
- 7. THIS IS A "LIVING DOCUMENT" AND MAY BE MODIFIED IN THE EVENT THE PROPOSED CONTROL MEASURES ARE INSUFFICIENT

LEGEND :

LIGHT DUTY SILT FENCE AS PER OPSD-219.110

SNOW FENCE

STRAW BALE CHECK DAM AS PER OPSD-219.180

> ROCK CHECK DAM AS PER OPSD-219.210



SILT SACK PLACED UNDER EXISTING CB COVER

TEMPORARY MUD MAT 0.15m THICK 50mm CLEAR STONE ON NON

WOVEN FILTER CLOTH 15.0

COPYRIGHT

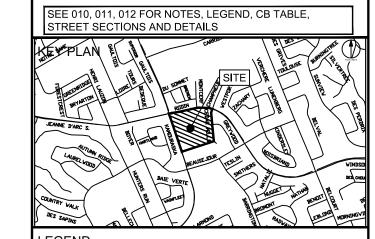
This drawing has been prepared solely for the intended use, thus any reproduction or distribution for any purpose other than authorized by IBI Group is forbidden. Written dimensions shall have precedence over scaled dimensions. Contractors shall verify and be responsible for all dimensions and conditions on the job, and IBI Group shall be informed of any variations from the dimensions and conditions shown on the drawing. Shop drawings shall be submitted to IBI Group for general conformance before proceeding with fabrication.

NORTH AMERICAN

**DEVELOPMENT GROUP** 

IBI Group Professional Services (Canada) Inc. is a member of the IBI Group of companies

ISSUES			
No.	DESCRIPTION	DATE	
1	ISSUED FOR CITY REVIEW	2023-02-06	



LEGEND Project Coordinator: North American Development Group

Site Plan Architect: Q4 Architects Inc.

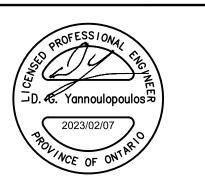
Surveyor: Fairhall, Moffatt and Woodland Ltd.

Geotechnical: Paterson Group

IBI Group

Electrical: Hammerschlag & Joffe Inc.

andscape: Levstek Consultants Inc.



Suite 400 – 333 Preston Street Ottawa ON K1S 5N4 Canada tel 613 225 1311 / 613 241 3300 fax 613 225 9868

ORLEANS GARDENS

ibigroup.com

1615 ORLEANS BOULEVARD

PROJECT NO: 122764		OrlnsGard
DRAWN BY: A.B. / E.H.	CHECKED BY: R.M./D.G.Y.	<b>-</b>
PROJECT MGR: R.M.	APPROVED BY: D.G.Y.	ation: J:\122764
SHEET TITLE		cati

SEDIMENT-EROSION PLAN

SHEET NUMBER C-900

