

UTILITY LEGEND

	
	TRANSFORMER
	TRANSFORMER C/W CONCRETE WINGS
HSG	HYDRO SWITCHGEAR
НМН	HYDRO MANHOLE
	BELL PEDESTAL
GLB	BELL GRADE LEVEL BOX (I=600mm, w=1200mm, d=750mm) C/W 1.5 x 3.0m easem
FC	BELL FIBER CABINET (I=1200mm, w=750mm, d=500mm)
CSP	BELL CENTRAL SPLITTING POINTS (I=1175mm, w=1200mm, d=500mm)
	ROGERS PEDESTAL
\boxtimes	ROGERS VAULT (I=1000mm, w=1000mm, d=1200mm) C/W 1m x 2m easement
P30 ─ ─<	STREET LIGHT
D	STREET LIGHT DISCONNECT
— ı	STREET LIGHT GROUNDING
——————————————————————————————————————	JOINT UTILITY TRENCH
———Н———	HYDRO CABLE AND DUCTS
——В——	BELL CABLE
———ВВ———	BELL DUCTS
T	ROGERS CABLE
———тт———	ROGERS DUCTS
G	GAS
s	STREET LIGHT CABLE
	UTILITY DROP LOCATIONS
10-DUCTS 6-H 4-T	CONCRETE ENCASED DUCT BANK C/W NUMBER OF DUCTS
CMB	COMMUNITY MAILBOX
	PROPOSED TREE LOCATION
(i)	ROOT MANAGEMENT BARRIER

SEDIMENT EROSION LEGEND

	HEAVY DUTY SILT FENCE
	SNOW FENCE
₩	STRAW BALE CHECK DAM
400 SE 400 202 (SE)	STRAW BALE CHECK DAM WITH FILTER CLOTH
	ROCK CHECK DAM
	SEDIMENT SACK PLACED UNDER EXISTING CB COVER
	TEMPORARY MUD MAT 0.15m THICK 50mm CLEAR STONE ON NON WOVEN FILTER CLOTH

GENERAL LEGEND

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

SERVICING LEGEND

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	DITCH INLET CATCHBASIN C/W GUTTER GRADE
G/G 104.25 CBMH100	CATCHBASIN MANHOLE C/W TOP OF GRATE
T/G 103.59 CBMH101	DITCH INLET MANHOLE C/W TOP OF GRATE
T/G 103.59 CB100	ICD LOCATION
T/G 104.10 RYCB T/G 104.35	REAR YARD CATCHBASIN IN ROAD CONNECTING STRUCTURE C/W SOLID GRATE
© ^{AD1} T/G 104.35	AREA DRAIN C/W TOP OF GRATE
—— T/G 104.35 INV 103.35	REAR YARD "TEE" CATCHBASIN (300Ø) C/W TOP OF GRATE AND INVERT OUT
eT/G 104.50 INV 103.50	REAR YARD "END" CATCHBASIN (300Ø) C/W TOP OF GRATE AND INVERT OUT
T/G 104.35 INV 103.35	REAR YARD "CUSTOM ANGLED " CATCHBASIN (450Ø) C/W TOP OF GRATE AND INVERT OUT
T/G 104.35 TNV 103.35	REAR YARD "THREE WAY" CATCHBASIN (450Ø) C/W TOP OF GRATE AND INVERT OUT
300mmØ CSP	PERFORATED REAR YARD SUBDRAIN
	CSP CULVERT C/W DIAMETER
⊗ V&VB	VALVE AND VALVE BOX
⊚ V&VC	VALVE AND VALVE CHAMBER
◆ HYD 104.35	FIRE HYDRANT C/W BOTTOM OF FLANGE ELEVATION
200Ø WM RED 150Ø WM	WATERMAIN REDUCER
2 VBENDS	VERTICAL BEND LOCATION
\triangleleft	SINGLE SERVICE LOCATION
\triangleleft	DOUBLE SERVICE LOCATION
BH 12 102.00	INFERRED BEDROCK (SEE GEOTECHNICAL REPORT)
HGL 101.79 S/T	100 YEAR STORM HYDRAULIC GRADE LINE AT MANHOLE
HGL 101.79	STRESS TEST STORM HYDRAULIC GRADE LINE AT MANHOLE
108 102.40	UNDERSIDE OF FOOTING ELEVATION (WITH LOT #)
***************************************	CLAY SEAL IN SEWER / WATERMAIN TRENCH

\rightarrow \rightarrow \rightarrow	PROPOSED SWALE C/W FLOW DIRECTION
	PROPOSED DITCH C/W FLOW DIRECTION AND SLOPE
1.3%	SLOPE C/W FLOW DIRECTION
<- □	MAJOR OVERLAND FLOW ROUTE
× 104.62	PROPOSED SPOT GRADE
×104.40 (S)	PROPOSED SWALE GRADE
×104.50 (S)HP	PROPOSED SWALE HIGH POINT GRADE
104.60 103.59	LOT CORNER GRADE C/W EXISTING GRADE
86.45 EX ×	TIE INTO EXISTING GRADE
96.79	FULL STATIC PONDING GRADE
103.50	RETAINING WALL C/W TOP OF WALL AND GRASS GRADE
بليليليل	TERRACING 3:1 MAXIMUM UNLESS NOTED OTHERWISE
₩	PRESSURE REDUCING VALVE
F.FL. 96.32 T.FND, 95.96 U.S.F. 93.36 RISERS 0 M.U.S.F M.G.G.	- FINISHED FLOOR ELEVATION - TOP OF FOUNDATION ELEVATION - UNDERSIDE OF FOOTING ELEVATION - NUMBER OF ADDITIONAL RISERS - MINIMUM UNDERSIDE OF FOOTING (Based on the higher of the sewer obverts, or hydraulic grade line)
(M.R.G.)	MINIMUM GRASS GRADE
WU	WALKUP UNIT
WO	WALKOUT UNIT
NS	NON-STANDARD FOUNDATION (Frost cover not provided for standard unit)
BS	BACKSPLIT UNIT (1.5m frost cover on footings)
FF	NOISE FENCE LOCATION
FF	NOISE FENCE GATE

CROSSING SCHEDULE 200mmØ WATERMAIN OVER 1200mmØ SANITARY SEWER - CLEARANCE 0.25m (INSULATION REQUIRED) 200mmØ WATERMAIN OVER 675mmØ SSTORM SEWER - CLEARANCE 0.40m 200mmØ SANITARY SEWER UNDER 675mmØ STORM SEWER - CLEARANCE 0.25m

200mmØ SANITARY SEWER UNDER 300mmØ STORM SEWER - CLEARANCE 0.40m

ANDREW MCCREIGHT MANAGER (A), DEVELOPMENT REVIEW CENTRAL PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT **DEPARTMENT, CITY OF OTTAWA**

FULL DEPTH KEY OPTION (SEE NOTE 7) ----

GRANULAR 'A' - REINSTATE EXISTING (150mm MIN.)

GRANULAR 'B' TYPE 2 REINSTATE EXISTING (300mm MIN.)

MATCH EXISTING ASPHALT DEPTHS — LIFTS TO BE 50mm DEPTH MAXIMUM,

1. ALL EXISTING ASPHALT TO BE SAW CUT. 2. UNLESS SPECIFIED ELSEWHERE, SURFACE COURSE ASPHALT SUPERPAVE 12.5mm

USE SEALANT TO SEAL THE JOINT (SEE NOTE 8)

APPROVED By Andrew McCreight at 9:19 am, Jun 15, 2023

STEP KEY

TRENCH

UNLESS SPECIFIED ELSEWHERE, SURFACE COURSE ASPHALT SUPERPAVE 12.5mm
 AND BASE COURSE ASPHALT SUPERPAVE 19.0mm IS TO BE USED.
 UNLESS SPECIFIED ELSEWHERE, ASPHALT MIX SHALL BE LEVEL B (PG58-34) FOR NON-BUS LOCAL ROADS,
 AND LEVEL D (PG 64-34) FOR ALL OTHER ROADS.
 UNLESS SPECIFIED ELSEWHERE, WHERE EXISTING PAVEMENT STRUCTURE EXCEEDS 150mm IN DEPTH,
 ASPHALT REINSTATEMENT SHALL BE 150mm AND GRANULAR "A" FOR THE REMAINDER.
 UNLESS SPECIFIED ELSEWHERE, WHERE AN UNDERLYING LAYER OF CONCRETE PAVEMENT EXISTS,
 REINSTATEMENT SHALL CONSIST OF 150mm OF SUPERPAVE 19.00mm LEVEL B (PG58-34) COMPACTED IN LIFTS.
 UNLESS SPECIFIED ELSEWHERE, HOT MIX ASPHALT PLACEMENT AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH F-3130.
 UNLESS SPECIFIED ELSEWHERE, THE USE OF FULL DEPTH KEY OPTION MUST BE SUBJECT TO CITY'S APPROVAL.
 ALL EDGES TO BE ROUT AND SEALED WITH A BEAD OF HOT RUBBERIZED ASPHALT JOINT SEALING COMPOUND.

—300mm (MIN.) TYP.

- UNDISTURBED GRANULAR -----

EXCAVATED TRENCH COMPACTED IN ACCORDANCE WITH D-029 TABLE 2

→ 300mm (MIN.) TYP.

- TREAT ALL CUT FACES WITH TACK COAT BEFORE PLACING ASPHALT

EXISTING GRANULAR 'A'

EXISTING GRANULAR 'B'

EXISTING SUBGRADE

SAVE AND REPLACE WITH EXCAVATED (NATIVE) MATERIAL EXCEPT IN IMMEDIATE AREA OF PIPES WHERE BEDDING AND CUSHION (COVER) REQUIREMENTS SHALL PREVAIL. WHERE EXCAVATED MATERIAL IS UNSUITABLE DUE TO MOISTURE CONTENT OR CONTAMINATION A MATERIAL OF SIMILAR FROST SUSCEPTIBILITY SHALL BE IMPORTED OR AN APPROVED FROST TAPER INSTALLED.

- EXISTING LIFTS OF ASPHALT

NOTES:

- SPECIFICATIONS DO NOT APPLY.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING SERVICES AND UTILITIES PRIOR TO CONSTRUCTION AND SHALL PROTECT AND ASSUME RESPONSIBILITY FOR ALL UTILITIES
- 4. 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
- BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED OR UNTIL START OF SUBSEQUENT
- STRAW BALE SEDIMENT TRAPS TO BE PLACED AND MAINTAINED IN EXISTING AND CONSTRUCTED ROADSIDE DITCHES. TRAPS TO REMAIN AND BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED (IF APPLICABLE).
- 7. 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
- 8. ALL CONNECTIONS TO EXISTING WATERMAINS ARE TO BE COMPLETED BY CITY FORCES. CONTRACTOR IS TO EXCAVATE, BACKFILL, COMPACT AND REINSTATE.
- 14. ALL LEADS FOR STREET CB's TO AND CICB'S CONNECTED TO MAIN SHALL BE 200mmØ PVC DR35 @ MIN 2% SLOPE UNLESS NOTED OTHERWISE. ALL LEADS FOR RYCB's CONNECTED TO
- 15. EACH BUILDING SHALL BE EQUIPPED WITH A SANITARY AND STORM SEWER BACKWATER VALVE AS PER CITY STDS S14, S14,1 OR S14.2
- 17. THE COMPOSITE UTILITY PLAN HAS BEEN REVIEWED BY IBI GROUP FOR CONFORMITY TO THE DESIGN CONCEPT FOR THE DEVELOPMENT AND FOR GENERAL ARRANGEMENT ONLY AND AS SUCH SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN EITHER LAYOUT OR WORKMANSHIP.
- 18. ALL UTILITY BOXES (I.E. PEDESTALS, TRANSFORMERS, ETS) ARE TO BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE CITY OF OTTAWA'S "GUIDELINES FOR
- 19. THIS DRAWING IS A COMPILATION OF OTHER UTILITY DESIGNS AND DOES NOT INDICATE IN ANY WAY THAT THE PARTY SIGNING THIS DRAWING HAS DESIGNED OR APPROVED THE RESPECTIVE UTILITY PLANTS INDICATED ON THIS DRAWING. THE DRAWING WAS PREPARED TO BE USED AS REFERENCE ONLY AS PER REQUIREMENTS OF THE CITY OF OTTAWA. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE IT HAS REVIEWED THE CURRENT AND EXISTING DESIGNS BY HYDRO, STREET LIGHTING, BELL, CANADA POST, O.C. TRANSPO, CABLE TV AND ANY OTHER PARTIES INCLUDED BUT NOT MENTIONED AND COMPLETE THE INSTALLATION IN ACCORDANCE WITH THE REQUIREMENTS OF THE STAKEHOLDER UTILITY
- 21. OBTAIN ALL NECESSARY PERMITS AND APPROVAL FROM CITY OF OTTAWA BEFORE COMMENCING WORK
- 22. THERMAL INSULATION TO BE PROVIDED FOR WATER SERVICES LESS THAN 2.4m FROM OPEN STRUCTURES PER CITY OF OTTAWA STD W23

OTTAWA STD W22

- 23. WATER SERVICE TO HAVE MORE THAN 2.4M OF COVER OR BE INSULATED PER CITY OF
- TO BE: 200mmØ PVC DR 35
- FITTINGS TO BE USED. SEWER TO BE INSTALLED AS PER OSPD 1005.01. STORM SEWER MATERIALS TO BE: 450mmØ AND SMALLER - PVC DR 35
- 26. ALL WATERMAINS TO BE PVC DR 18, WITH MINIMUM COVER OF 2.4m AND INSTALLED PER CITY OF OTTAWA STANDARDS. ALL DOMESTIC WATER SERVICES ARE TO BE 200mmØ.

- 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
- WHETHER OR NOT SHOW ON THESE DRAWINGS.
- 3. 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
- 5. 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.
- 6. SILT FENCE TO BE ERECTED PRIOR TO EARTH WORKS BEING COMMENCED. SILT FENCE TO
- AND CURBS ARE CONSTRUCTED.
- 13.ANY WATERMAIN WITH LESS THAN 2.4M DEPTH OF COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.
- MAIN SHALL BE 200mmØ PVC DR35 @ MIN 1% SLOPE UNLESS NOTED OTHERWISE.
- 16. THESE DRAWINGS ARE NOT TO BE SCALED OR USED FOR LAYOUT PURPOSES.
- UTILITY PEDESTALS WITHIN THE ROAD RIGHT OF WAY"
- 20. CONTRACTOR TO REVIEW AND FOLLOW ALL RELEVANT CITY STANDARD DRAWINGS DURING CONSTRUCTION.
- 24. ALL SANITARY SEWER MAINS TO BE CSA CERTIFIED, BELL AND SPIGOT TYPE. ONLY FACTORY FITTINGS TO BE USED. SEWER TO BE INSTALLED AS PER OSPD 1005.01. SANITARY SEWER MATERIALS
- 25. ALL STORM SEWER MAINS TO BE CSA CERTIFIED, BELL AND SPIGOT TYPE. ONLY FACTORY



CLIENT

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DATE

2022-01-28

2022-09-16

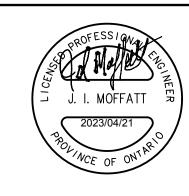
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DESCRIPTION

SEAL



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PROJECT

979, WELLINGTON

PROJECT NO: 126031

DRAWN BY: CHECKED BY: D.P.S. S.E.L. APPROVED BY: PROJECT MGR: J.I.M. J.I.M.

SHEET TITLE

GENERAL NOTES. AND LEGEND

SHEET NUMBER

CITY PLAN No. xxxxx

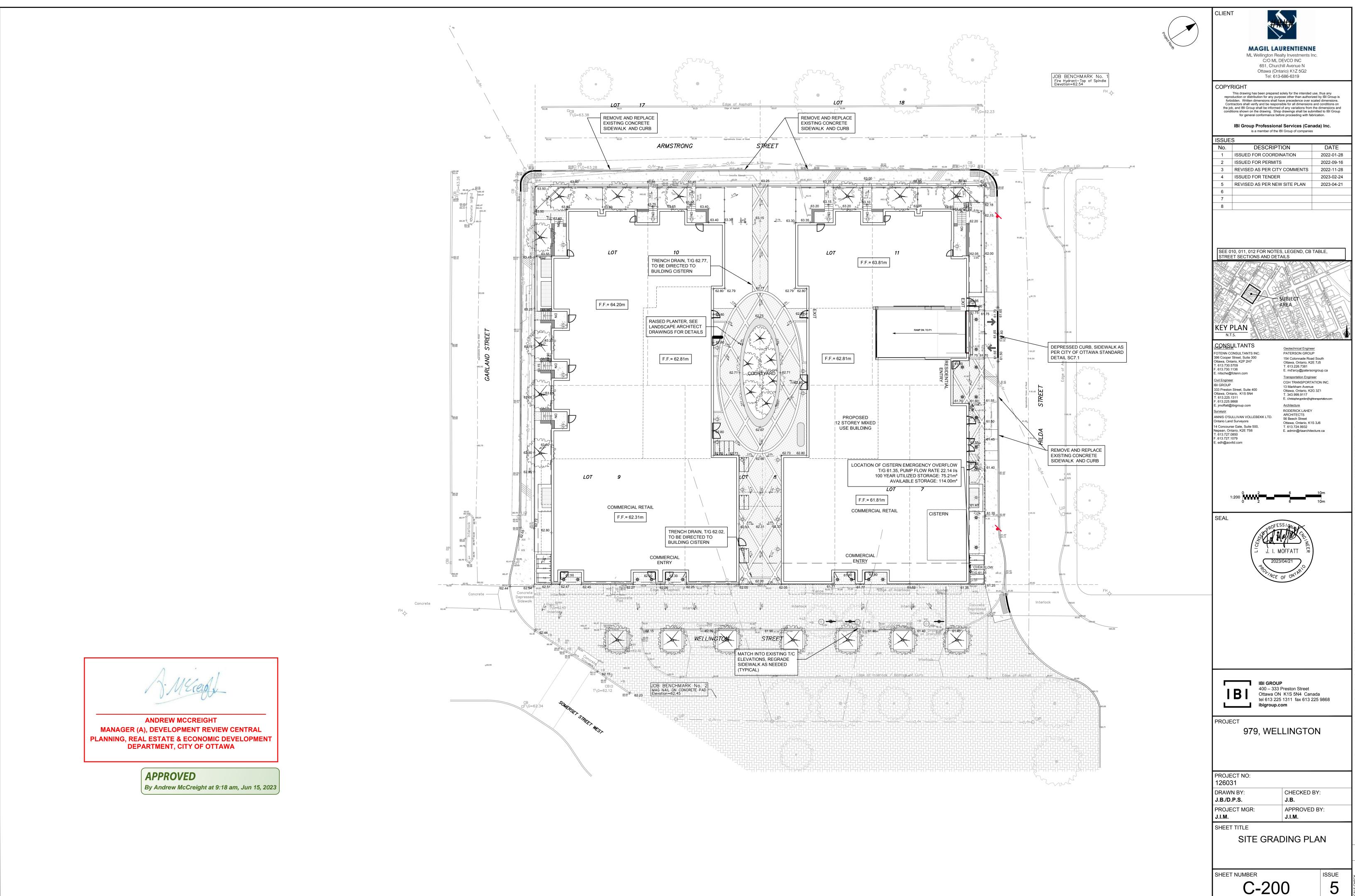
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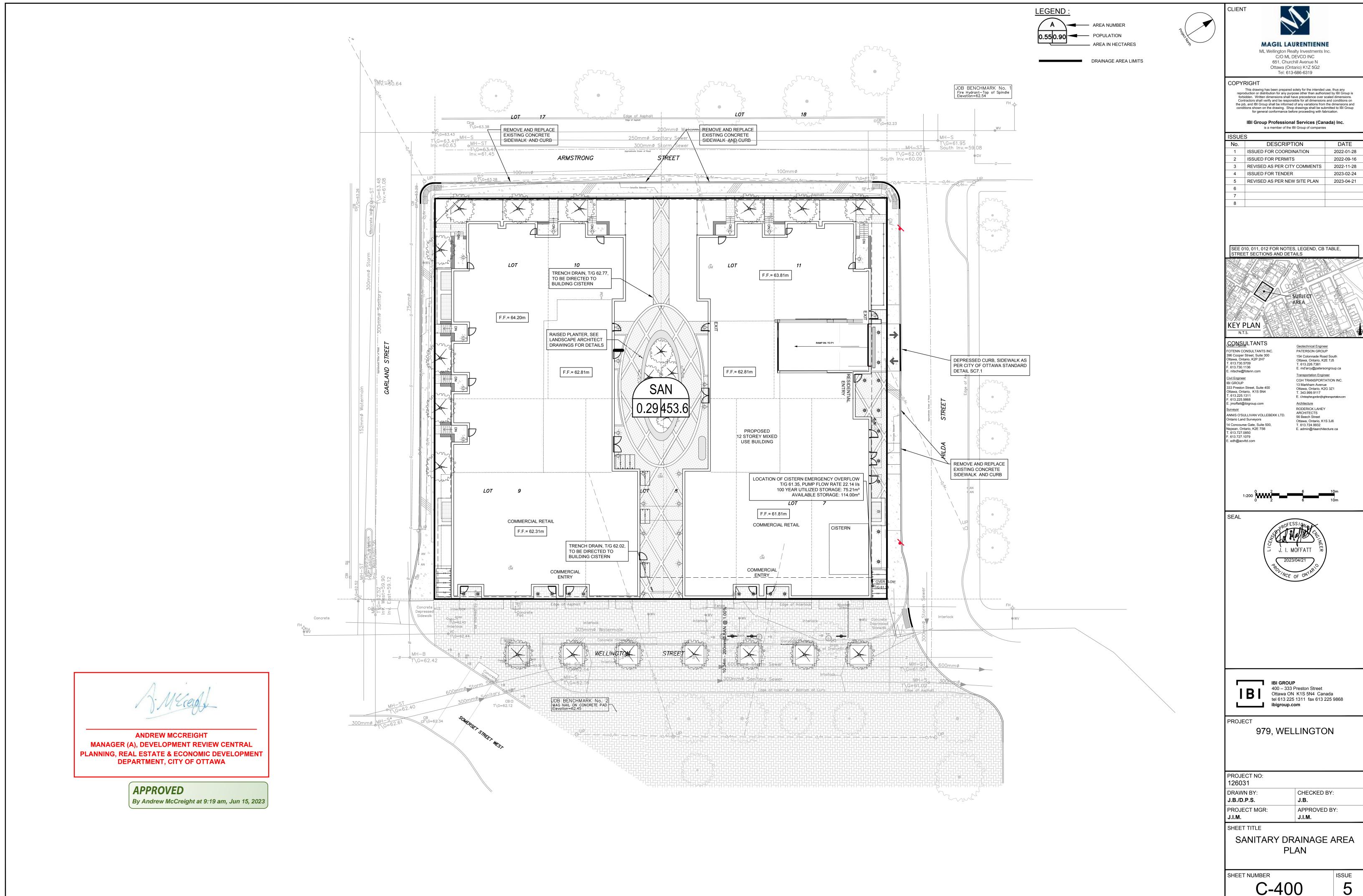
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