

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
<u> </u> ı	STREET LIGHT GROUNDING
——————————————————————————————————————	JOINT UTILITY TRENCH
———Н———	HYDRO CABLE AND DUCTS
———В————	BELL CABLE
——ВВ——	BELL DUCTS
т	ROGERS CABLE
тт	ROGERS DUCTS
G	GAS
s	STREET LIGHT CABLE
	UTILITY DROP LOCATIONS
<u>10-DUCTS</u> 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
1000 mill 1000 2005 (200)	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
The state of the s	CONCRETE SIDEWALK
	- TACTILE WALKING SURFACE INDICATOR
	ASPHALT SIDEWALK / PATHWAY
BUŚ	BUS STOP CONCRETE / ASPHALT

SERVICING LEGEND

SANITARY MANHOLE

SANITARY SEWER

	SANITARY SEWER
MH109 MH118	STORM MANHOLE
825mmØ STM	STORM SEWER - LESS THAN 900Ø
900mmØ STM	STORM SEWER - 900Ø AND GREATER
200Ø WATERMAIN	WATERMAIN
CB100	STREET CATCHBASIN C/W TOP OF GRATE
T/G 104.10 CICB101	
G/G 104.25 DCB100	CURB INLET CATCHBASIN C/W GUTTER GRADE
T/G 104.10 DCICB101	DOUBLE CATCHBASIN C/W TOP OF GRATE
G/G 104.25	DITCH INLET CATCHBASIN C/W GUTTER GRADE
T/G 103.59	CATCHBASIN MANHOLE C/W TOP OF GRATE
T/G 103.59	DITCH INLET MANHOLE C/W TOP OF GRATE
CB100 T/G 104.10	ICD LOCATION
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
⊖T/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 C GRATE AND INVERT OUT
T/G 104.35 INV 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
⊗ ^{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
~	DOUBLE SERVICE LOCATION
BH 12 102.00	INFERRED BEDROCK (SEE GEOTECHNICAL REPORT)
HGL	100 YEAR STORM HYDRAULIC GRADE LINE AT MANHOLE
101.79 S/T HGL	STRESS TEST STORM HYDRAULIC GRADE LINE AT MANHOLE
101.79	UNDERSIDE OF FOOTING ELEVATION (WITH LOT #)
102.40	
	CLAY SEAL IN SEWER / WATERMAIN TRENCH

GRADING LEGEND

\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
X104.50 (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
ં હે	
复数 103.50	RETAINING WALL C/W TOP OF WALL AND GRASS GRADE
بليليلي	TERRACING 3:1 MAXIMUM UNLESS NOTED OTHERWISE
⊗	PRESSURE REDUCING VALVE
F.FL. 96.32 T.FND. 95.96 U.S.F. 93.30 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) MINIMUM GARAGE GRADE
(M.R.G.) 107.10	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
—— F —— F ——	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.

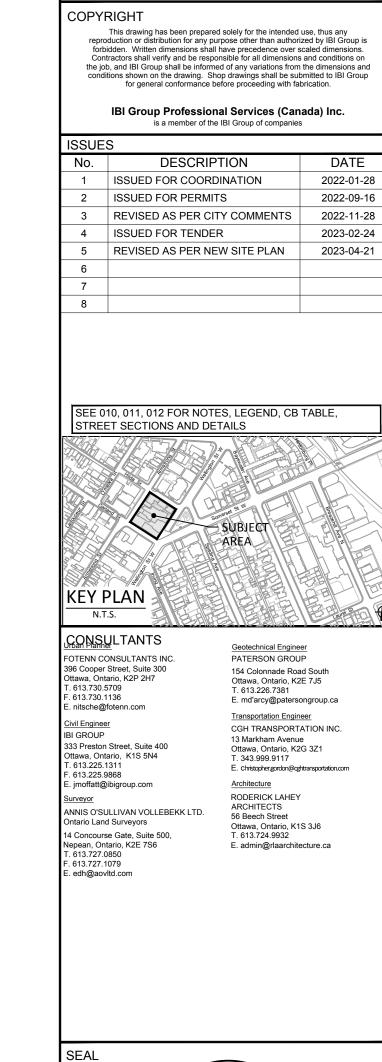
- EXISTING LIFTS OF ASPHALT

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
- 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
- 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
- 5. CONTRACTORS SHALL BE RESPONSIBLE FOR KEEPING CLEAN ALL ROADS WHICH BECOME
- 6. 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
- STRAW BALE SEDIMENT TRAPS TO BE PLACED AND MAINTAINED IN EXISTING AND CONSTRUCTED ROADSIDE DITCHES. TRAPS TO REMAIN AND BE MAINTAINED UNTIL
- 7. SILT SACK TO BE PLACED AND MAINTAINED UNDER COVER OF ALL CATCHBASINS GEOTEXTILE FABRIC IN RYCBs TO REMAIN UNTIL VEGETATION IS ESTABLISHED. ALL AND CURBS ARE CONSTRUCTED.
- 8. ALL CONNECTIONS TO EXISTING WATERMAINS ARE TO BE COMPLETED BY CITY FORCES. CONTRACTOR IS TO EXCAVATE, BACKFILL, COMPACT AND REINSTATE.
- AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.
- 14. ALL LEADS FOR STREET CB'S TO AND CICB'S CONNECTED TO MAIN SHALL BE 200mmø PVC
- 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 OMISSIONS IN EITHER LAYOUT OR WORKMANSHIP.
- UTILITY PEDESTALS WITHIN THE ROAD RIGHT OF WAY"
- 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
- 20. CONTRACTOR TO REVIEW AND FOLLOW ALL RELEVANT CITY STANDARD DRAWINGS DURING CONSTRUCTION.
- 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
- 24. ALL SANITARY SEWER MAINS TO BE CSA CERTIFIED, BELL AND SPIGOT TYPE. ONLY FACTORY
- 25. ALL STORM SEWER MAINS TO BE CSA CERTIFIED, BELL AND SPIGOT TYPE. ONLY FACTORY

- 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.
- COVERED IN DUST, DEBRIS AND/OR MUD AS A RESULT OF ITS CONSTRUCTION OPERATIONS.
- VEGETATION IS ESTABLISHED (IF APPLICABLE).
- GEOTEXTILE SILT SACK IN STREET CBs TO REMAIN UNTIL ALL CURBS ARE CONSTRUCTED. CATCHBASINS TO BE REGULARLY INSPECTED AND CLEANED, AS NECESSARY, UNTIL SOD
- 13.ANY WATERMAIN WITH LESS THAN 2.4M DEPTH OF COVER REQUIRES THERMAL INSULATION
- 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.
- 16. THESE DRAWINGS ARE NOT TO BE SCALED OR USED FOR LAYOUT PURPOSES.
- THE DESIGN CONCEPT FOR THE DEVELOPMENT AND FOR GENERAL ARRANGEMENT ONLY AND AS SUCH SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS OR
- 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

- 23. WATER SERVICE TO HAVE MORE THAN 2.4M OF COVER OR BE INSULATED PER CITY OF OTTAWA STD W22
- FITTINGS TO BE USED. SEWER TO BE INSTALLED AS PER OSPD 1005.01. SANITARY SEWER MATERIALS 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.



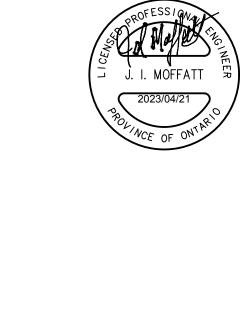
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PROJECT

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

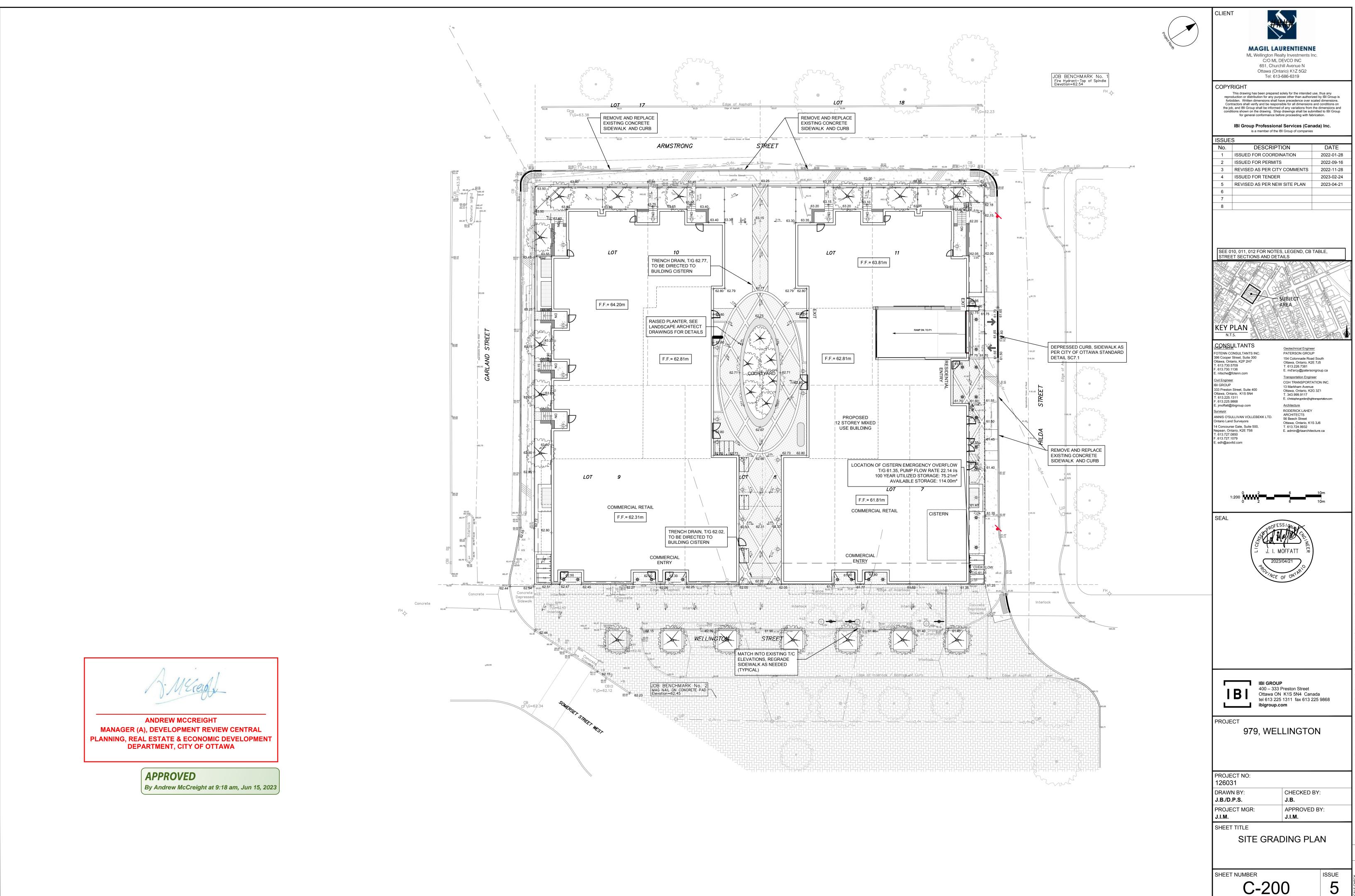
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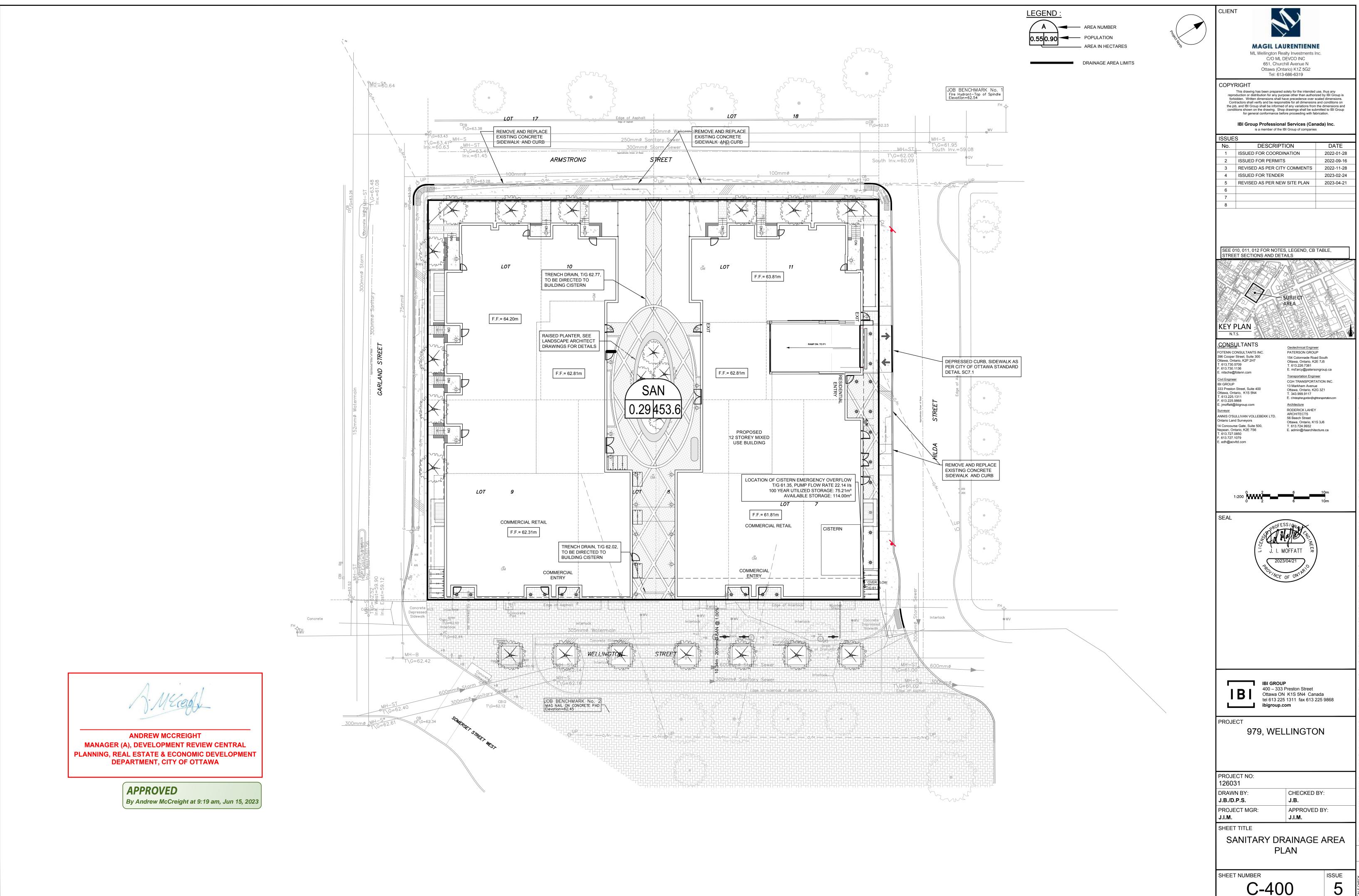
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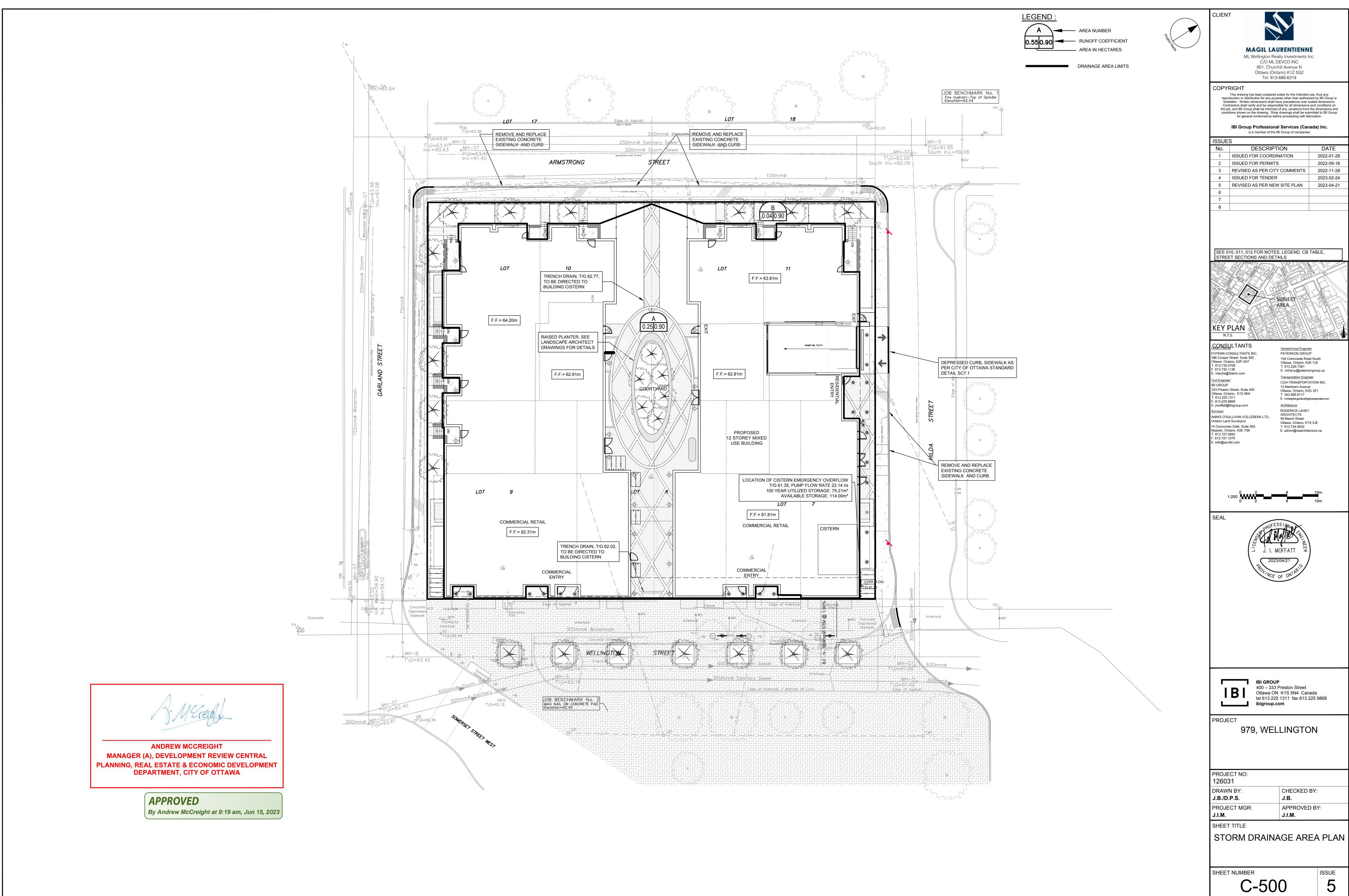
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