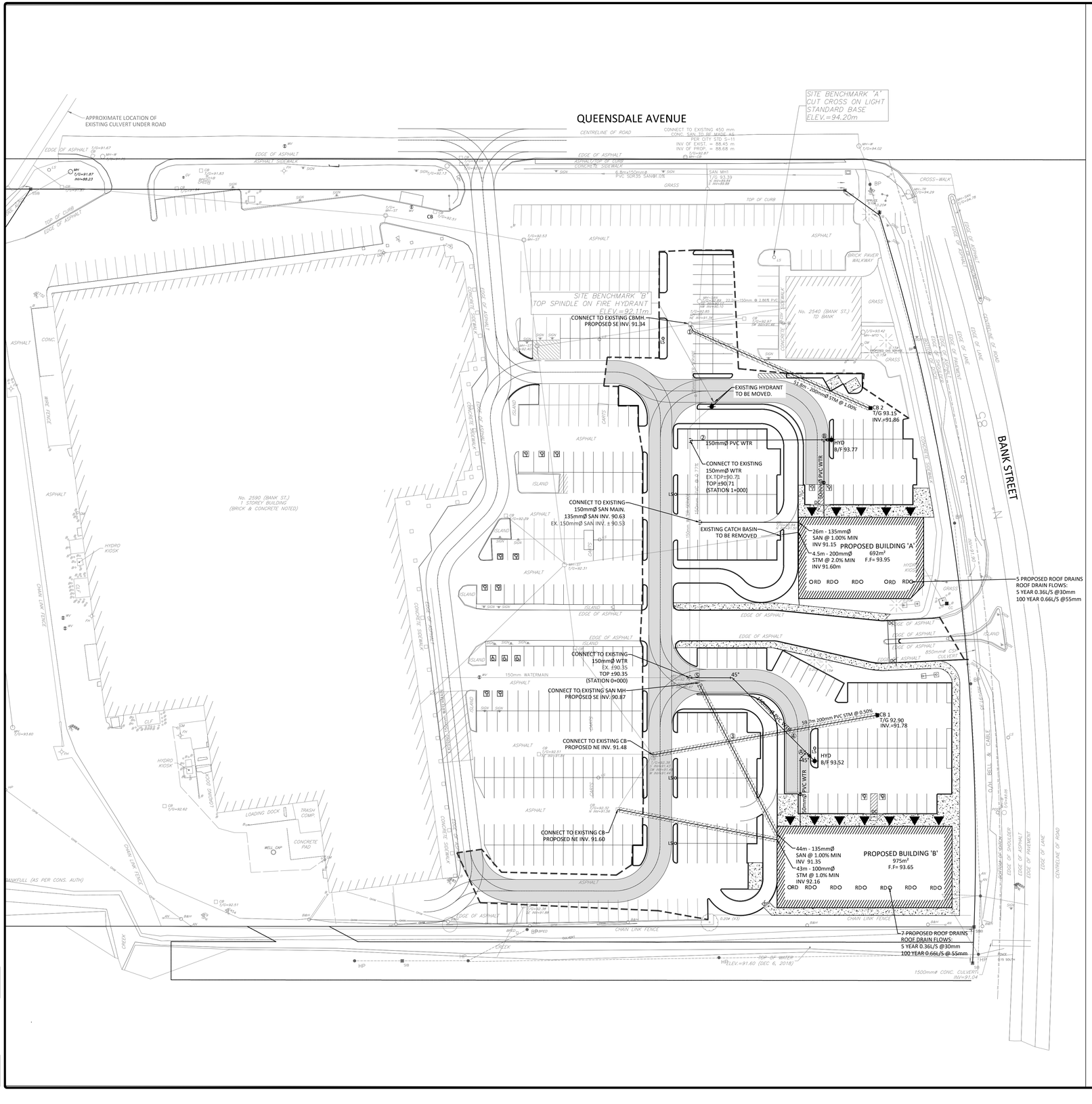


SEWER NOTES

1. CONSTRUCT ALL SEWERS AND APPURTENANCES TO CITY OR TOWNSHIP STANDARDS (IF AVAILABLE) OR AS PER OPSD STANDARDS.
2. SEWER TRENCHING AND BEDDING SHALL CONFORM TO OPSD 802.010 AND 802.013 UNLESS NOTED OTHERWISE.
3. BEDDING SHALL BE A MINIMUM 150mm OF GRANULAR "A", COMPACTED TO MINIMUM 95% STANDARD PROCTOR DRY DENSITY. CLEAR STONE BEDDING SHALL NOT BE PERMITTED.
4. SUB-BEDDING, IF REQUIRED SHALL BE AS PER THE DIRECTION OF A GEOTECHNICAL ENGINEER.
5. BACKFILL TO AT LEAST 300mm ABOVE TOP OF PIPE WITH GRANULAR "A" OR SAND.
6. TO MINIMIZE DIFFERENTIAL FROST HEAVING, TRENCH BACKFILL (FROM PAVEMENT SUBGRADE TO 2.0m BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL CONDITIONS.
7. SEWERS AND CONNECTIONS 150mm DIAMETER AND SMALLER TO BE PVC SDR 28 OR APPROVED EQUIVALENT. SEWERS AND CONNECTIONS 200mm DIAMETER AND LARGER TO BE PVC SDR 35 OR APPROVED EQUIVALENT.
8. SEWER SERVICE LATERALS ARE T HAVE A MINIMUM OF 2.0m OF COVER OR SHALL BE INSULATED AS PER CITY OF OTTAWA STANDARD DRAWING W22 AND WATER SERVICE LATERALS ARE TO HAVE A MINIMUM COVER OF 2.4m OR SHALL BE INSULATED AS PER CITY OF OTTAWA STANDARD DRAWING W22.
9. SUPPLY AND INSTALL ALL PIPING AND APPURTENANCES AS SHOWN AND DETAILED TO WITHIN 1.0m OF BUILDING. ALL ENDS OF SERVICES TO BE PROPERLY CAPPED AND LOCATED WITH 2"x4"x8' LONG MARKER.
10. CONTRACTOR TO TELEVISE (CCTV) ALL PROPOSED SEWERS ONSITE. OUTLET CONNECTION TO THE MAIN AND PIPES 150mmØ OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.
11. DYE TESTING IS TO BE COMPLETED ON SANITARY SERVICE TO CONFIRM PROPER CONNECTION TO THE SANITARY SEWER MAIN.
12. ALL CATCHBASIN AND CATHCBASIN MANHOLE LEADS ARE TO BE MINIMUM 200mmØ WITH MINIMUM 1.0% SLOPE UNLESS OTHERWISE NOTED.
13. ALL CATCHBASINS EXCLUDING LANDSCAPE CATCHBASINS ARE TO HAVE 150 mmØ PERFORATED PIPE FOR 3.0m ON ALL AVAILABLE SIDES AS PER CITY OF OTTAWA STANDARD DRAWING 'R1'.
14. ALL MATERIALS AND CONSTRUCTION TO BE IN ACCORDANCE WITH CURRENT CITY OF OTTAWA STANDARDS AND ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS; SEWER AND WATERMAIN MATERIAL TYPES AND DISINFECTION.
15. SUPPLY AND CONSTRUCT ALL SEWERS AND APPURTENANCES IN ACCORDANCE WIH CURRENT CITY OF OTTAWA STANDARDS AND ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS; ROADS AND PUBLIC WORKS.
16. STRICT ATTENTION AND ADHERENCE TO CITY OF OTTAWA - SEWER USE BY-LAW 2003-514 IS REQUIRED DUE TO THE NATURE OF THIS FACILITY, IN PARTICULAR SECTIONS #4,5 AND 6 AS IT PERTAINS TO BIOMEDICAL AND SIMILAR WASTE AND AS IT RELATES TO THIS APPLICATION.

WATERMAIN NOTES

1. CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY OR TOWNSHIP STANDARDS.
2. INDUSTRIAL/COMMERCIAL SERVICE CONNECTIONS TO BE 50mm COPPER PIPING AND SHALL CONFORM TO ASTM B88 TYPE 'K' SOFT.
3. WATERMAINS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 2.4m. OTHERWISE THERMAL INSULATION IS REQUIRED AS PER CITY OR TOWNSHIP STANDARDS (IF AVAILABLE) OR OPSD 1109.030.
4. IF THE WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS EQUAL TO OR LESS THAN THAT WHICH IS RECOMMENDED BY THE MANUFACTURER.
5. USE APPROVED SADDLE CONNECTION WITH MAIN (CORPORATION) STOP AS PER CITY OF OTTAWA STANDARD DRAWING 'W26'.
6. CONNECTION TO EXISTING BY CITY OR TOWNSHIP FORCES. EXCAVATION, BACKFILLING AND REINSTATEMENT IS TO BE COMPLETED BY THE CONTRACTOR.
7. THERMAL INSULATION OF WATERMAINS AT OPEN STRUCTURES AS PER CITY OR TOWNSHIP STANDARDS (IF AVAILABLE) OR OPSD 1109.030.
8. THERMAL INSULATION OF WATERMAINS UNDER ROAD SIDE DITCHES AS PER CITY OF OTTAWA STANDARD DRAWING 'W21'.
9. WATER SERVICES GREATER THAN 19mm REQUIRE A WATER DATA CARD.
10. VALVES TO BE OPERATED BY CITY OF OTTAWA STAFF ONLY.
11. NO CONNECTION TO EXISTING WATER NETWORK SHALL BE COMPLETED UNTIL A WATER PERMIT IS OBTAINED FROM THE CITY OF OTTAWA. CITY OF OTTAWA FORCES TO COMPLETE WATERMAIN CONNECTIONS. EXCAVATION, BACKFILLING AND REINSTATEMENT TO BE COMPLETED BY CONTRACTOR.

CROSSING CONFLICT TABLE

LOCATION	DESCRIPTION	SEPARATION
1	100mmØ STM SERVICE INV 91.45 EX. 25mmØ WTR OBV 90.57	0.88
2	150mmØ WTR INV 90.81 135mmØ SAN OBV 90.51	0.30
3	135mmØ SAN SERVICE OBV 91.18 200mmØ STM INV 91.58	0.40
4	150mmØ WAT SERVICE OBV 90.88 200mmØ STM INV 91.61	0.73
5	150mmØ WTR OBV 90.46 EX. 150mmØ SAN INV 90.85	0.39

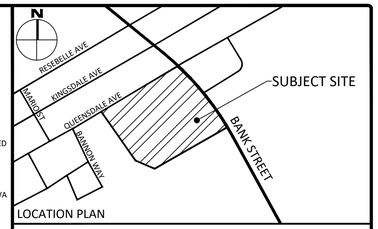
*NOTE: CONTRACTOR TO ENSURE A MINIMUM OF 0.30m OF VERTICAL SEPARATION BETWEEN EXISTING UTILITIES, SEWERS, AND PROPOSED SERVICES
**NOTE: CONTRACTOR TO VERIFY ALL EXISTING SEWER AND UTILITY ELEVATIONS AND IMMEDIATELY ADVISE THE ENGINEER OF ANY DISCREPANCIES

WATER COVER TABLE

LOCATION	STATION	FINISHED GRADE	TOP OF PIPE	COVER
150 X 150 TEE	0+000.00	92.88	90.37	2.51
45° BEND	0+0011.01	92.92	90.52	2.40
150 X 50 TEE A	0+0038.69	93.30	90.90	2.40
45° BEND	0+0040.92	93.22	90.82	2.40
VALVE	0+050.28	93.35	90.95	2.40
BLDG	0+058.66	93.65	91.25	2.40
150X150 TEE	1+000.00	93.17	90.63	2.54
150 X 150 TEE B	1+035.07	93.51	91.11	2.40
VALVE	1+046.31	92.72	90.32	2.40
BLDG	1+055.35	93.95	91.55	2.40
150 X 50 TEE A	2+000.00	93.30	90.90	2.40
VALVE	2+001.20	93.31	90.91	2.40
HYDRANT	2+003.11	93.45	91.05	2.40
150 X 50 TEE B	3+000.00	93.51	91.11	2.40
VALVE	3+001.00	93.50	91.10	2.40
HYDRANT	3+002.00	93.60	91.20	2.40

STM PIPES STRUCTURE TABLE

NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
CB 1	92.90		SW 91.79	OPSD 705.010 FRAME S19 COVER S19
CB 2	93.15		W 91.94	OPSD 705.010 FRAME S19 COVER S19



LOCATION PLAN

LEGEND

- BARRIER CURB / CURB DEPRESSION
- HEAVY DUTY ASPHALT
- CONCRETE SIDEWALK
- PAVING STONE
- PIPE INSULATION
- LIMIT OF DEVELOPMENT
- STORM MANHOLE
- CATCHBASIN OR DITCH INLET
- LANDSCAPE CATCHBASIN
- SANITARY MANHOLE
- PERFORATED PIPE
- WATER VAVLE/CHAMBER
- FIRE HYDRANT
- CROSSING CONFLICT LOCATION
- LIGHT STANDARD
- CENTRELINE OF SWALE
- SLOPING AT 3:1 UNLESS SPECIFIED
- PROPOSED ELEVATION / EXISTING ELEVATION
- SWALE ELEVATION
- TOP OF WALL ELEVATION / BOTTOM OF WALL ELEVATION
- EMERGENCY OVERLAND FLOW ROUTE
- SILT FENCE BARRIER (AS PER OPSD 219.130)
- STRAW BALE CHECK DAM (AS PER OPSD 219.180)
- SEDIMENT CONTROL DEVICE
- BUILDING ENTRANCE / OVERHEAD DOOR
- REMOTE WATER METER
- WATER METER

FOR REVIEW ONLY
NOT FOR CONSTRUCTION

No.	Revisions	Date
1	ISSUED FOR SITE PLAN CONTROL	FEB. 07, 2020

Check and verify all dimensions before proceeding with the work — Do not scale drawings

SCALE 1 : 500
0 10 20 30 40 50 Metres

McINTOSH PERRY
115 Walgreen Road, RR3, Carp, ON K0A 1L0
Tel: 613-836-2184 Fax: 613-836-3742
www.mcintoshperry.com

Stamp: LICENSED PROFESSIONAL ENGINEER 2020/02/10 R. P. KENNEDY 100086734 PROVINCE OF ONTARIO

Client:
FIRM CAPITIAL PROPERTIES INC.
163 CARTWRIGHT AVENUE
TORONTO, ON M6A 1V5

Project:
BLOSSOM PARK PROPOSED BUILDINGS
2950-2960 BANK STREET

Drawing Title:
SITE SERVICING PLAN

Scale: 1:500	Project Number: CP-17-0565
Drawn By: S.P.G.	
Checked By: R.P.K.	Drawing Number: C102
Designed By: S.P.G.	

D07-12-XX-XXXX
#XXXXX

FILENAME: \\192.168.1.3\projdocs\min\01 Project - Proposals\2017 Jobs\CP-OCP-17-0565 Blossom Park & KWC_1B Bay Building_2950-2960 Bank Street\Cad\115 - Drawings\SCP-17-0565 - PRESENTATION.dwg
LAST SAVED: Friday, February 07, 2020 LAST SAVED BY: c.hampel
LAST PLOTTED: Friday, February 07, 2020 CTB FILE USED: ----