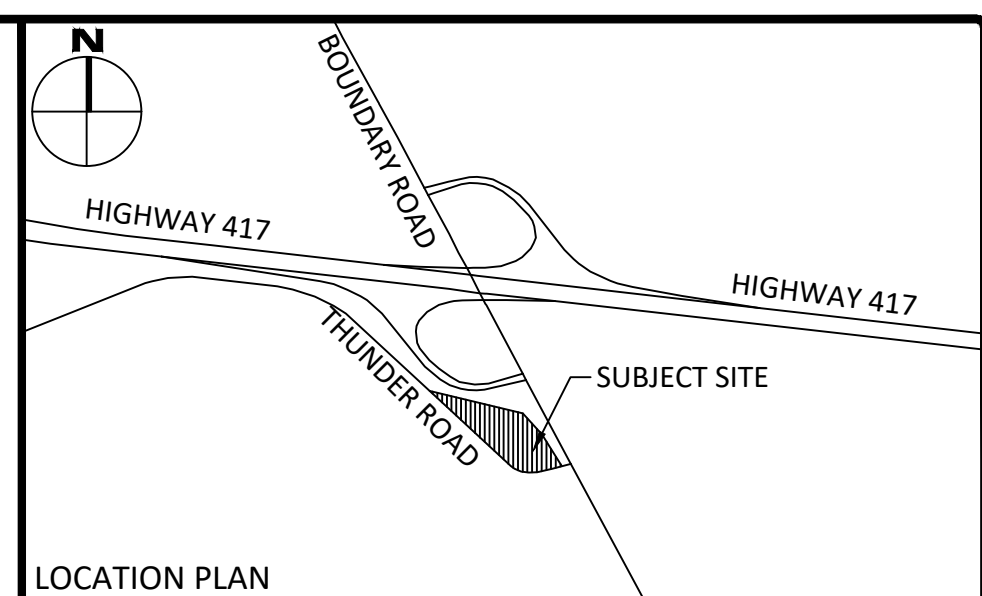
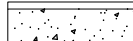
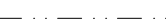
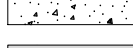
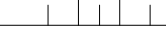
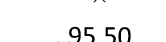
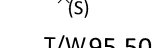
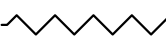
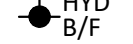
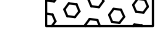




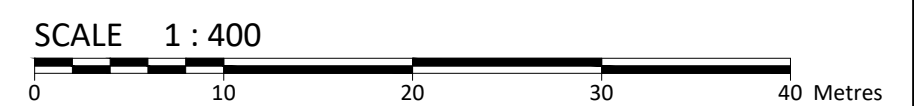
LEGEND

	FULL HEIGHT CONCRETE BARRIER CURB (SC1)		LIMIT OF CONSTRUCTION
	DEPRESSED CONCRETE BARRIER CURB		PERFORATED PIPE SUBDRAIN
	MONOLITHIC CURB & SIDEWALK (SC2)		DRAINAGE SWALE
	DEPRESSED MONOLITHIC CURB & SIDEWALK		DRAINAGE DITCH
	CONCRETE SIDEWALK (SC4)		SLOPING AT 3:1 UNLESS SPECIFIED
	PROPOSED ASPHALT		SURFACE ELEVATION
	PROPOSED GRAVEL		SWALE ELEVATION
	LANDSCAPING CATCHBASIN		TOP OF WALL ELEVATION BOTTOM OF WALL ELEVATION
	CATCHBASIN MANHOLE		OVERLAND FLOW ROUTE
	CATCHBASIN		SILT FENCE BARRIER
	SANITARY SEWER MANHOLE		STRAW BALE CHECK DAM
	FIRE HYDRANT		MUD MAT
	WATER VALVE		TRENCH DRAIN
	WATER METER		
	REMOTE WATER METER		
	BOLLARD PER CITY STD F-4		

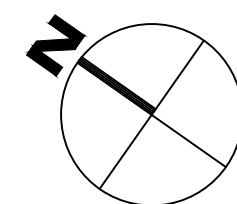
FOR REVIEW ONLY
NOT FOR CONSTRUCTION

4	ISSUED FOR SITE PLAN CONTROL	JUN. 10, 2025
3	ISSUED FOR SITE PLAN CONTROL	MAR. 18, 2025
2	ISSUED FOR SITE PLAN CONTROL	OCT. 31, 2024
1	ISSUED FOR SITE PLAN CONTROL	MAY 14, 2024
No.	Revisions	Date

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



Client:

BROFORT INC.
2161 THURSTON DRIVE
OTTAWA, ON K1G 6C9

Project

PROPOSED WAREHOUSE
6165 THUNDER ROAD

Drawing Title:

SITE SERVICING PLAN

Scale:	1:400	Project Number:	CCO-23-1882
Drawn By:	FV		
Checked By:	RF	Drawing Number:	C102
Designed By:	JH		

102	1882	D07-12-24-0152
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#XXXXXX

FILENAME: U:\Ottawa\01 Project - Proposals\2023 Jobs\CCO\CCO-23-1882 Brofort - 6165 Thunder Rd\12 - Drawings\CCO-23-1882_Presentation.dwg
LAST SAVED: Tuesday, June 10, 2025 LAST SAVED BY: F.Valent
LAST PLOTTED: Tuesday, June 10, 2025 CTB FILE USED: MP-CV-STANDARD.ctb

STM STRUCTURE TABLE

NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
CB2	77.71	SE76.860	SW76.818	STRUC: OPSTD 705.010 FRAME: CITY S19 COVER: CITY S19
OGS1	77.99	SE76.546	SW76.511	OGS UNIT 80% TSS REMOVAL

GENERAL NOTES

1. THE ORIGINAL TOPOGRAPHY, GROUND ELEVATION AND SURVEY DATA SHOWN ARE SUPPLIED FOR INFORMATION PURPOSES ONLY, AND IMPLY NO GUARANTEE OF ACCURACY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION SHOWN.
2. THIS PLAN IS NOT A CADASTRAL SURVEY SHOWING LEGAL PROPERTY BOUNDARIES AND EASEMENTS. THE PROPERTY BOUNDARIES SHOWN HEREIN HAVE BEEN DERIVED INFORMATION SUPPLIED BY (OR SHOWN ON) FARMLAND, MOFAT & WOODLAND DRAWING # 14 - 9 (0) (P) (R) AND WILL NOT BE RELEIED UNTO BE ACCURATE OR COMPLETE. THE PRECISE LOCATION OF THE CURRENT PROPERTY BOUNDARIES AND EASEMENTS CAN ONLY BE DETERMINED BY AN UP-TO-DATE LAND TITLES SEARCH AND A SUBSEQUENT CADASTRAL SURVEY PERFORMED AND CERTIFIED BY AN ONTARIO LAND SURVEYOR.
3. THE CONTRACTOR IS TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY BEFORE COMMENCING CONSTRUCTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT.
5. THE CONTRACTOR IS TO DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME ALL RESPONSIBILITY FOR EXISTING UTILITIES WHETHER OR NOT SHOWN ON THESE DRAWINGS. IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.
6. RESTORE ALL TRENCHES AND SURFACES OF PUBLIC ROAD ALLOWANCES TO CONDITION EQUAL OR BETTER THAN ORIGINAL CONDITION AND TO THE SATISFACTION OF THE CITY AUTHORITIES.
7. EXCAVATE AND DISPOSE OF ALL EXCESS EXCAVATED MATERIAL, SUCH AS ASPHALT, CURBING AND DEBRIS, OFF SITE AS DIRECTED BY THE ENGINEER AND THE CITY.
8. TOSPOIL TO BE STRIPPED AND STOCKPILED FOR REHABILITATION. CLEAN FILL TO BE PLACED IN FILL AREAS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
9. ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE SPECIFIED.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD, INCLUDING THE SUPPLY, INSTALLATION, AND REMOVAL OF ALL NECESSARY SIGNAGE, DELINEATORS, MARKERS AND BARRIERS.
11. DO NOT ALTER GRADING OF THE SITE WITHOUT PRIOR APPROVAL OF THE ENGINEER/CITY.
12. ALL ROADWAY, PARKING LOT, AND GRADING WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH CITY STANDARDS AND SPECIFICATIONS. THE CONTRACTOR IS TO PROVIDE POSITIVE DRAINAGE AROUND FROM THE BUILDING.
13. CONTACT THE CITY FOR INFORMATION OF ROUGH GRADING OF PARKING LOTS, ROADWAYS AND LANDSCAPED AREAS PRIOR TO PLACEMENT OF ASPHALT. TOSPOIL TO BE STRIPPED AND STOCKPILED FOR REHABILITATION. CLEAN FILL TO BE PLACED IN FILL AREAS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
14. ALL DIMENSIONS AND INVERTS MUST BE VERIFIED PRIOR TO CONSTRUCTION, IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.
15. ELECTRICAL, GAS, TELEPHONE AND TELEVISION SERVICE LOCATIONS ARE SUBJECT TO THE INDIVIDUAL AGENCY:
 - ELECTRICAL SERVICE - HYDRO ONE
 - GAS SERVICE - ENBRIDGE
 - TELEPHONE SERVICE - BELL CANADA
 - TELEVISION SERVICE - ROGERS.
16. INSTALLATION TO BE IN ACCORDANCE WITH CURRENT CODES AND STANDARDS OF APPROVAL AGENCIES HYDRO ONE, BELL AND THE CITY.
17. CONTRACTOR TO ENSURE ALL APPLICABLE OPS SPECIFICATIONS ARE FOLLOWED DURING CONSTRUCTION
18. ALL PROPOSED CURB TO BE CONCRETE BARRIER CURB UNLESS OTHERWISE SPECIFIED.
19. THIS PLAN MUST BE READ IN CONJUNCTION WITH THE GEOTECHNICAL INVESTIGATION COMPLETED BY PATERSON GROUP, DATED APRIL 29, 2024.

SEWER NOTES:

7. CONSTRUCT ALL SEWERS, CATCH BASINS, MANHOLES AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY.
8. SEWER TRENCHING AND BEDDING SHALL CONFORM TO OPSD 802.010 AND 802.011 UNLESS NOTED OTHERWISE.
9. BEDDING SHALL BE A MINIMUM 150mm PROGNATOR "A" COMPACTED TO MINIMUM 95% STANDARD PROCTOR DRY DENSITY. STONE BEDDING SHALL NOT BE PERMITTED.
10. SUB-BEDDING, IF REQUIRED SHALL BE COMPOSED OF 450mm OF COMPACTED GRANULAR "B" TYPE 1.
11. PIPE SHALL BE AT LEAST 300mm TO TOP OF PIPE WITH GRANULAR "A" OR GRANULAR "B" TYPE 1.
12. TO MINIMIZE DISTURBED FROST HEAVING, TRENCH BACKFILL TO MINIMUM DISTANCE OF 300mm (12") TO METRES BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL CONDITIONS.
13. SANITARY SEWERS AND CONNECTIONS 150mmØ AND SMALLER TO BE SDR-28.
14. SEWERS AND CONNECTIONS 200mmØ AND LARGER TO BE PVC SDR-35. BEDDING TO BE TYPE "B" EXCEPT AT RISERS, UNLESS NOTED OTHERWISE.
15. SEWERS AND WATERMANS LOCATED PARALLEL TO EACH OTHER SHOULD BE CONSTRUCTED IN SEPARATE TRENCHES, WHEN IT IS IMPOSSIBLE OR NOT FEASIBLE TO MAINTAIN SEPARATION, THE MINIMUM PERMITTED MINIMUM SEPARATION PER MFCP STANDARDS, ALL SEWERS SHOULD BE CONSTRUCTED OF WATERMAIN QUALITY PIPE, PRESSURE TESTED IN PLACE AT A PRESSURE OF 320 kPa (50 psi) WITHOUT LEAKAGE USING THE TESTING METHODOLOGY IN ONTARIO PIPEWATER STANDARD SPECIFICATION 701 (PPS 701) OF THE OPS.
16. INSULATE ALL STORM AND SANITARY SEWERS/SERVICES THAT HAVE LESS THAN 2.0m OF COVER WITH THERMAL INSULATION AS PER CITY DETAIL SS.511.2.1.
17. SEWER CONNECTIONS ARE TO BE MADE ABOVE THE SPRINGLINE OF THE SEWERMAIN AS PER CITY OF OTTAWA STANDARD DRAWING S11.1, S11.1.1, S11.2.
18. 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.
19. CONTRACTOR TO TELEVIEW (CCTV) ALL PROPOSED SEWERS ON SITE, DURING CONSTRUCTION TO VERIFY LOCATION, DEPTH AND TO BE GREATER PROX TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.
20. DIE TESTING IS TO BE COMPLETED ON SANITARY SERVICE TO CONFIRM PROPER CONNECTION TO SANITARY SEWER MAIN.

WATERMAIN NOTES

1. CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH CITY STANDARDS AND SPECIFICATIONS.
2. WATERMAINS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 2.4m. INSULATE ALL WATERMAINS AND SERVICES THAT HAVE A MIN. 2.4m COVER WITH THERMAL INSULATION AS PER CITY DETAIL W23.
3. IF THE WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS EQUAL TO OR LESSER THAN THAT WHICH IS RECOMMENDED BY THE MANUFACTURER AND AS PER CITY STANDARD W25 AND W25.2.
4. THERMAL INSULATION OF WATERMAINS AT OPEN STRUCTURES AS PER CITY DETAIL W23.
5. VALVES TO BE OPERATED BY CITY STAFF ONLY.
6. NO WORK SHALL COMMENCE UNLESS A CITY WATER WORKS INSPECTOR IS ON SITE. NO CONNECTION TO EXISTING WATER NETWORK SHALL BE COMPLETED UNTIL A WATER PERMIT IS OBTAINED FROM THE CITY OF CALGARY. ALL WORK SHALL BE BY CITY FORCE. EXCAVATION, BACKFILLING AND REINSTATEMENT TO BE COMPLETED BY SITE SERVING CONTRACTOR.
7. CONCRETE THRESHOLDS TO CONFORM TO CITY STANDARD W25.3.
8. WATERMAIN 100-300mmID TO BE CLASS 150 RNS PVC OR APPROVED EQUIVALENT.
9. ALL PVC WATERMAIN SHALL BE INSTALLED WITH A 10 GAUGE STRANDED COPPER TWO OR RWU TRACER WIRE IN ACCORDANCE WITH CITY STANDARD W36.
10. FIRE HYDRANTS SHALL CONFORM TO CITY STANDARDS W16, W19, AND W20.
11. VALVE BOXES SHALL CONFORM TO CITY STANDARD W24.
12. 300mmID VALVES AND SMALLER TO BE INSTALLED WITH VALVE BOXES TO CITY STANDARD W24. 400mmID VALVES TO BE LARGER TO BE INSTALLED WITH BUTTERFLY VALVES AND VALVE CHAMBERS AS PER CITY STANDARD W24.
13. AS PER CITY GUIDELINE, THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER/UTILITY IS 0.25m FOR CROSSING SUPERIOR, AS PER CITY STANDARD W24. FOR CROSSING UNDER SEWER, THE MINIMUM VERTICAL CLEARANCE IS 0.5m AS PER CITY DETAIL W23. FOR CROSSING UNDER SEWER, ADEQUATE STRUCTURAL SUPPORT OF THE SEWER IS REQUIRED TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLEMENT. THE LENGTH OF WATER PIPE SHALL BE CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE INSTANTLY FAR AWAY FROM POSSIBLE FROM THE SEWER.