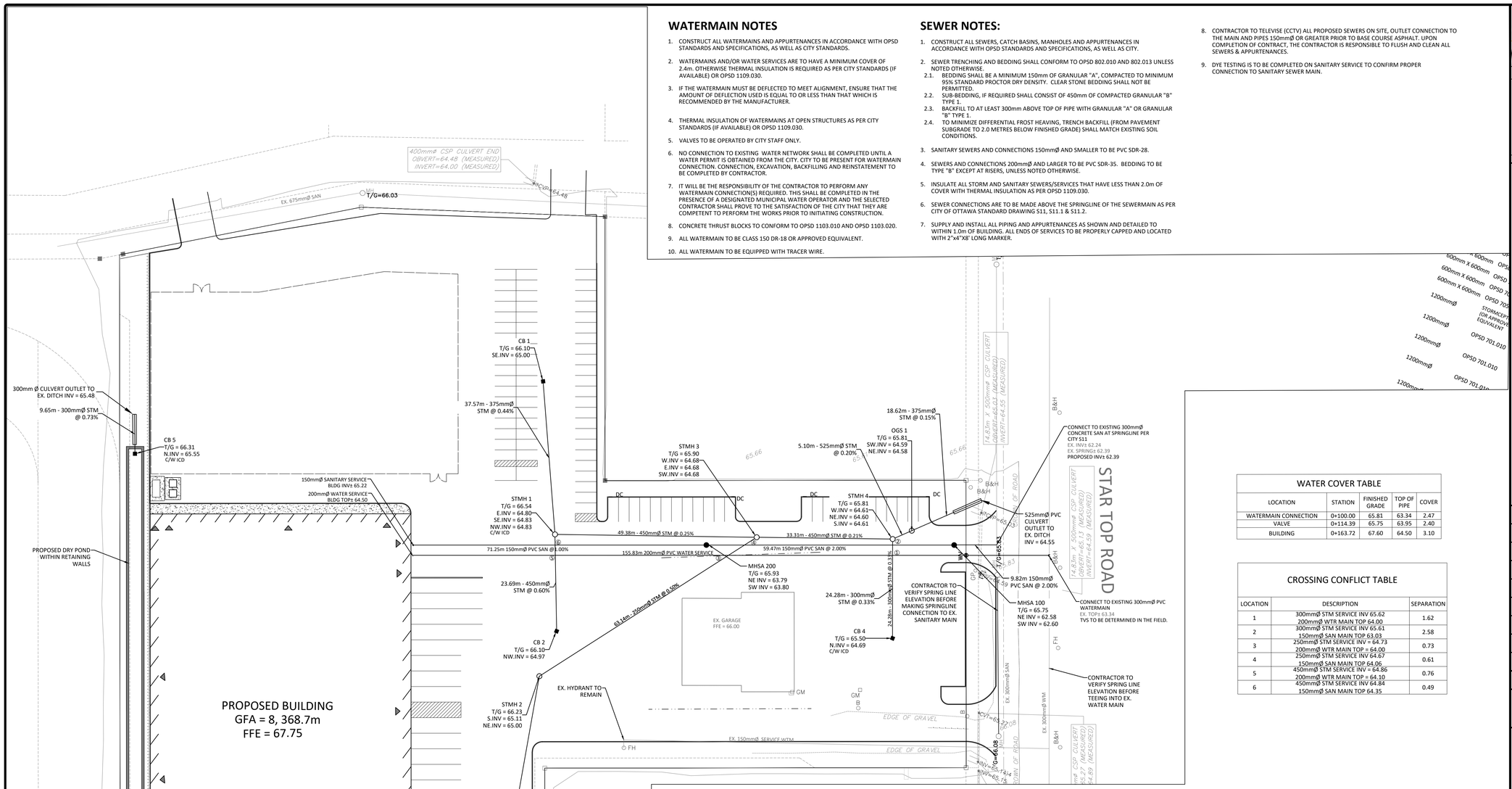
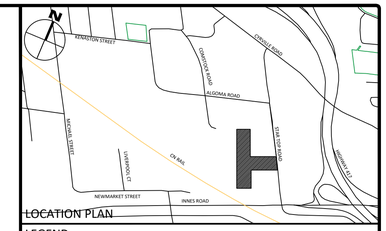
WATERMAIN NOTES

1. CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY STANDARDS.
2. WATERMAINS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 2.4m. OTHERWISE THERMAL INSULATION IS REQUIRED AS PER CITY STANDARDS (IF AVAILABLE) OR OPSD 1109.030.
3. 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.
4. THERMAL INSULATION OF WATERMAINS AT OPEN STRUCTURES AS PER CITY STANDARDS (IF AVAILABLE) OR OPSD 1109.030.
5. VALVES TO BE OPERATED BY CITY STAFF ONLY.
6. NO CONNECTION TO EXISTING WATER NETWORK SHALL BE COMPLETED UNTIL A WATER PERMIT IS OBTAINED FROM THE CITY. CITY TO BE PRESENT FOR WATERMAIN CONNECTION. CONNECTION, EXCAVATION, BACKFILLING AND REINSTATEMENT TO BE COMPLETED BY CONTRACTOR.
7. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ANY WATERMAIN CONNECTION(S) REQUIRED. THIS SHALL BE COMPLETED IN THE PRESENCE OF A DESIGNATED MUNICIPAL WATER OPERATOR AND THE SELECTED CONTRACTOR SHALL PROVE TO THE SATISFACTION OF THE CITY THAT THEY ARE COMPETENT TO PERFORM THE WORKS PRIOR TO INITIATING CONSTRUCTION.
8. CONCRETE THRUST BLOCKS TO CONFORM TO OPSD 1103.010 AND OPSD 1103.020.
9. ALL WATERMAIN TO BE CLASS 150 DR-18 OR APPROVED EQUIVALENT.
10. ALL WATERMAIN TO BE EQUIPPED WITH TRACER WIRE.

SEWER NOTES:

1. CONSTRUCT ALL SEWERS, CATCH BASINS, MANHOLES AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY.
2. SEWER TRENCHING AND BEDDING SHALL CONFORM TO OPSD 802.010 AND 802.013 UNLESS NOTED OTHERWISE.
   - 2.1. BEDDING SHALL BE A MINIMUM 150mm OF GRANULAR "A", COMPACTED TO MINIMUM 95% STANDARD PROCTOR DRY DENSITY. CLEAR STONE BEDDING SHALL NOT BE PERMITTED.
   - 2.2. SUB-BEDDING, IF REQUIRED SHALL CONSIST OF 450mm OF COMPACTED GRANULAR "B" TYPE 1.
   - 2.3. BACKFILL TO AT LEAST 300mm ABOVE TOP OF PIPE WITH GRANULAR "A" OR GRANULAR "B" TYPE 1.
   - 2.4. TO MINIMIZE DIFFERENTIAL FROST HEAVING, TRENCH BACKFILL (FROM PAVEMENT SUBGRADE TO 2.0 METRES BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL CONDITIONS.
3. SANITARY SEWERS AND CONNECTIONS 150mmØ AND SMALLER TO BE PVC SDR-28.
4. SEWERS AND CONNECTIONS 200mmØ AND LARGER TO BE PVC SDR-35. BEDDING TO BE TYPE "B" EXCEPT AT RISERS, UNLESS NOTED OTHERWISE.
5. INSULATE ALL STORM AND SANITARY SEWERS/SERVICES THAT HAVE LESS THAN 2.0m OF COVER WITH THERMAL INSULATION AS PER OPSD 1109.030.
6. SEWER CONNECTIONS ARE TO BE MADE ABOVE THE SPRINGLINE OF THE SEWERMAIN AS PER CITY OF OTTAWA STANDARD DRAWING S11, S11.1 & S11.2.
7. 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.
8. CONTRACTOR TO TELEVISE (CCTV) ALL PROPOSED SEWERS ON SITE, 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.
9. DYE TESTING IS TO BE COMPLETED ON SANITARY SERVICE TO CONFIRM PROPER CONNECTION TO SANITARY SEWER MAIN.





LOCATION PLAN

LEGEND

- CONCRETE BARRIER CURB
- CONCRETE WALKWAY
- PROPOSED ASPHALT
- SCB# LANDSCAPING CATCHBASIN
- CBMH# T/G CATCHBASIN MANHOLE
- CB# T/G CATCHBASIN
- MH#A T/G SANITARY SEWER MANHOLE
- HYD B/F FIRE HYDRANT
- WATER VALVE
- WATER METER
- REMOTE WATER METER
- LIMIT OF CONSTRUCTION
- DRAINAGE SWALE
- DRAINAGE DITCH
- SLOPING AT 3:1 UNLESS SPECIFIED
- 95.50 SURFACE ELEVATION
- 95.50 (S) SWALE ELEVATION
- T/W95.50 B/W94.25 TOP OF WALL ELEVATION BOTTOM OF WALL ELEVATION
- OVERLAND FLOW ROUTE
- SILT FENCE BARRIER
- STRAW BALE CHECK DAM
- MUD MAT

FOR REVIEW ONLY
NOT FOR CONSTRUCTION

WATER COVER TABLE

LOCATION	STATION	FINISHED GRADE	TOP OF PIPE	COVER
WATERMAIN CONNECTION	0+100.00	65.81	63.34	2.47
VALVE	0+114.39	65.75	63.95	2.40
BUILDING	0+163.72	67.60	64.50	3.10

CROSSING CONFLICT TABLE

LOCATION	DESCRIPTION	SEPARATION
1	300mmØ STM SERVICE INV 65.62 200mmØ WTR MAIN TOP 64.00	1.62
2	300mmØ STM SERVICE INV 65.61 150mmØ SAN MAIN TOP 63.03	2.58
3	250mmØ STM SERVICE INV= 64.73 200mmØ WTR MAIN TOP = 64.00	0.73
4	250mmØ STM SERVICE INV 64.67 150mmØ SAN MAIN TOP 64.06	0.61
5	450mmØ STM SERVICE INV = 64.86 200mmØ WTR MAIN TOP = 64.10	0.76
6	450mmØ STM SERVICE INV 64.84 150mmØ SAN MAIN TOP 64.35	0.49

STORM STRUCTURE TABLE

STRUCTURE I.D.	TOP OF GRATE ELEVATION	INVERTS	STRUCTURE SIZE	STRUCTURE TYPE	FRAME & COVER
CB 1	66.10	SE. OUT = 65.00	600mm X 600mm	OPSD 705.010	CITY STD S19
CB 2	66.10	NW. OUT = 64.97	600mm X 600mm	OPSD 705.010	CITY STD S19
CB 3	66.70	N. OUT = 65.50	600mm X 600mm	OPSD 705.010	CITY STD S19
CB 4	65.50	N. OUT = 64.69	600mm X 600mm	OPSD 705.010	CITY STD S19
CB 5	66.31	N. OUT = 65.55	600mm X 600mm	OPSD 705.010	CITY STD S19
OGS 1	65.81	SW. IN = 64.59 NE. OUT = 64.58	1200mmØ	STORMCEPTOR EF4 (OR APPROVED EQUVALENT	OPSD 401.040 /A (OR MANUFACTURER APPROVED EUVALENT)
STMH 1	66.54	SE. IN = 64.83 NW. IN = 64.83 E. OUT = 64.80	1200mmØ	OPSD 701.010	COVER CITY STD S24.1 FRAME CITY STD 25
STMH 2	66.23	S. IN = 65.11 NE. OUT = 65.00	1200mmØ	OPSD 701.010	COVER CITY STD S24.1 FRAME CITY STD 25
STMH 3	65.90	W. IN = 64.68 SW. IN = 64.68 E. OUT = 64.68	1200mmØ	OPSD 701.010	COVER CITY STD S24.1 FRAME CITY STD 25
STMH 4	65.81	W. IN = 64.61 S. IN = 64.61 NE. OUT = 64.60	1200mmØ	OPSD 701.010	COVER CITY STD S24.1 FRAME CITY STD 25

SANITARY STRUCTURE TABLE

STRUCTURE I.D.	TOP OF GRATE ELEVATION	INVERTS	STRUCTURE SIZE	STRUCTURE TYPE	FRAME & COVER
MHSA 100	65.75	SW. IN = 62.60 NE. OUT = 62.58	1200mmØ	OPSD 701.010	COVER CITY STD S24 FRAME CITY STD 25
MHSA 200	65.93	SW. IN = 63.80 NE. OUT = 63.79	1200mmØ	OPSD 701.010	COVER CITY STD S24 FRAME CITY STD 25

No.	Revisions	Date
1	ISSUED FOR SITE LAN APPLICATION	2023.08.04

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 — 2023.08.04 — A. K. BISHOP 100502882 — PROVINCE OF ONTARIO

Client:
BBS CONSTRUCTION
1805 WOODWARD DRIVE
OTTAWA, ON K2C 0P9

Project:
BOONE PLUMBING WAREHOUSE
1560 STAR TOP ROAD

Drawing Title:
SITE SERVICING PLAN

Scale: 1:500	Project Number: CCO-23-3725
Drawn By: M.R.	
Checked By: A.B.	Drawing Number: SS
Designed By: M.R.	

D07-12-XX-XXXX
#XXXXX

FILENAME: L:\Infrastructure\2023\CCO-23-3725 BBS Boone Warehouse_1540 Startop Road\12 - Drawings\CCO-23-3725 - PRESENTATION.dwg
LAST SAVED: Friday, August 04, 2023 LAST SAVED BY: m.raper
LAST PLOTTED: Friday, August 04, 2023 [TB FILE USED:]