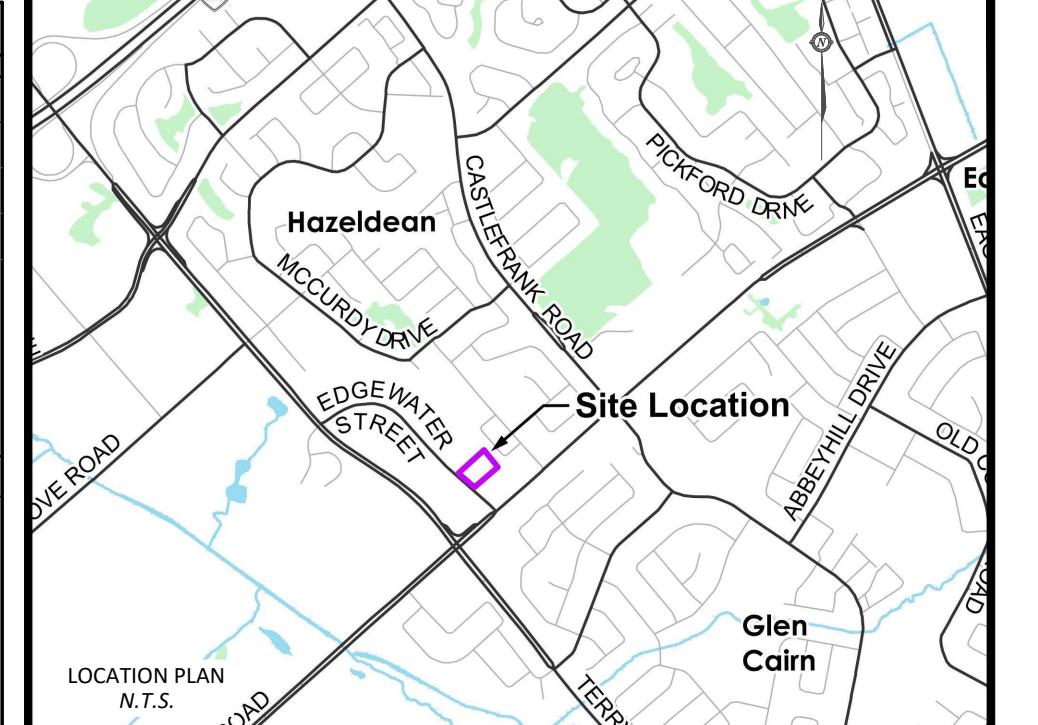
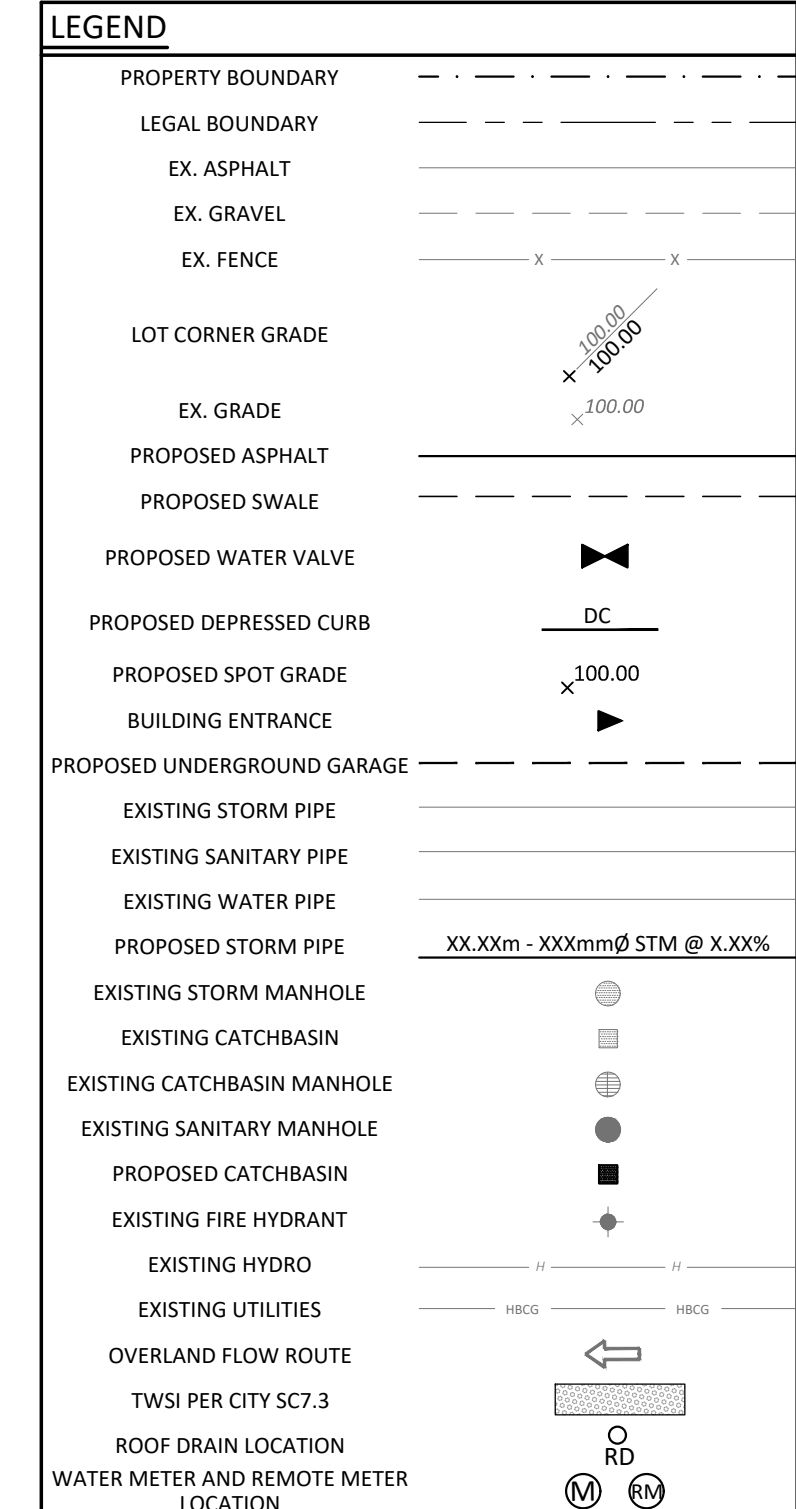


CBMH Shield-1200mm -Generic Drawing

- GENERAL NOTES:**
1. ALL DIMENSIONS AND INVERTS MUST BE VERIFIED PRIOR TO CONSTRUCTION, IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY.
 2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION. GAS, HYDRO, TELEPHONE OR ANY OTHER UTILITY THAT MAY EXIST ON SITE OR WITHIN THE ROAD ALLOWANCE MUST BE LOCATED BY ITS OWN UTILITIES AND VERIFIED.
 3. TOPSOIL TO BE STRIPPED AND STOCKPILED FOR REHABILITATION. CLEAN FILL TO BE PLACED IN FILL AREAS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
 4. ALL UNDERGROUND SERVICES, MATERIALS AND INSTALLATIONS TO BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND CODES OF THE TOWN AND PROVINCE.
 5. ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE SPECIFIED.
 6. CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES. THESE DRAWINGS ARE BASED ON LEGAL DRAWINGS PROVIDED BY THE TOWN OF CARLETON PLACE. LEGAL BOUNDARIES SHOWN ARE THE PLANS ARE APPROXIMATE ONLY AND MUST BE CONFIRMED BY THE CONTRACTOR.
 7. THE ORIGINAL TOPOGRAPHY AND GROUND ELEVATIONS, SERVICING AND SURVEY DATA SHOWN ON THIS PLAN ARE SUPPLIED FOR INFORMATION PURPOSES ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACCURACY OF ALL INFORMATION OBTAINED FROM THESE PLANS.
 8. CONNECT TO EXISTING SERVICES AS DETAILED. INCLUDE ALL RESTORATION WORK IF NECESSARY TO REINSTATE SURFACES TO THE CONDITION THAT EXISTED PRIOR TO CONSTRUCTION OR BETTER.
 9. 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.
 10. CONTRACTOR TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE TOWN BEFORE COMMENCING CONSTRUCTION.
 11. RESTORE ALL TRENCHES AND SURFACES OF PUBLIC ROAD ALLOWANCES TO CONDITION EQUAL OR BETTER THAN ORIGINAL CONDITION AND TO THE SATISFACTION OF TOWN AUTHORITIES.
 12. ALL EXCESS MATERIAL GENERATED DURING EXCAVATION ACTIVITIES SHALL BE STOCKPILED ON SITE AT AN APPROVED LOCATION. NO OFF-SITE HAULING OF EXCESS MATERIAL IS REQUIRED.
 13. ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS UNLESS OTHERWISE NOTED.
 14. TEMPORARY SEDIMENT CONTROL (FILTER CLOTH UNDER GRATE OR COVER) TO BE IMPLEMENTED DURING CONSTRUCTION ON ALL PROPOSED ROAD CATCHBASINS, REARWARD CATCHBASINS AND CATCHBASIN MANHOLES. NO RECYCLED GEOTECHNICAL MATERIAL SHALL BE PERMITTED FOR USE ON SITE.
 15. MONOLITHIC CONCRETE SIDEWALKS AS PER CITY OF OTTAWA SC2. CONCRETE BARRIER CURB AS PER CITY OF OTTAWA SC1.1. REFER TO DRAWING C103: GENERAL DETAILS PLAN PREPARED BY MCINTOSH PERRY



ELEVATIONS
ALL ELEVATIONS SHOWN ON THE PLAN ARE RELATIVE TO THE FINISHED FLOOR ELEVATION (FFE) OF THE EXISTING BUILDING ON SITE. CONTRACTOR SHALL CONFIRM ALL ELEVATIONS SHOWN PRIOR TO CONSTRUCTION

DISCLAIMER
LOCATIONS OF ANY UTILITIES AND UNDERGROUND SERVICES ON THE PLAN ARE PROVIDED FOR INFORMATION PURPOSES ONLY AND MAY DIFFER FROM WHAT IS EXISTING. CONTRACTOR IS RESPONSIBLE FOR ALL ON-SITE LOCATES AND WILL BE RESPONSIBLE SHOULD ANY INFRASTRUCTURE BE DAMAGED IN ANY WAY. MCINTOSH PERRY AND THE OWNER SHALL NOT BE RESPONSIBLE FOR DAMAGES ON ACCOUNT OF ANY DISCREPANCIES SHOWN ON THE PLAN.

- WATERMAIN NOTES**
1. CONSTRUCT ALL WATERMANS AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY STANDARDS.
 2. INDUSTRIAL/COMMERCIAL SERVICE CONNECTIONS TO BE 50mm COPPER PIPING AND SHALL CONFORM TO ASTM B88 TYPE 'K' SOFT.
 3. WATERMANS 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.
 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. THERMAL INSULATION OF WATERMANS AT OPEN STRUCTURES AS PER CITY STANDARDS (IF AVAILABLE) OR OPSD 1109.030.
 6. VALVES TO BE OPERATED BY CITY STAFF ONLY.
 7. 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.
 8. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ANY WATERMAIN CONNECTIONS 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.
 9. ALL WATERMANS SHALL BE EQUIPPED WITH BUTTERFLY AND GATE VALVES AS PER OPSD 1100.011.
 10. ALL FIRE HYDRANTS, VALVE AND VALVE BOX SHALL CONFORM TO OPSD 1103.020.
 11. CONCRETE THRUST BLOCKS TO CONFORM TO OPSD 1103.010 AND OPSD 1103.020.
 12. ALL WATERMAIN TO BE CLASS 150 OR-18 OR APPROVED EQUIVALENT.
 13. 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.
 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. SUB-BEDDING, IF REQUIRED SHALL CONSIST OF 450mm OF COMPACTED GRANULAR "B" TYPE 1.
 3. BACKFILL TO AT LEAST 300mm ABOVE TOP OF PIPE WITH GRANULAR "A" OR GRANULAR "B" TYPE 1.
 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 150mm AND SMALLER TO BE PVC SDR-28.
 4. SEWERS AND CONNECTIONS 200mm 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 TELETYPE (CCTV) ALL PROPOSED SEWERS ON SITE. OUTLET CONNECTION TO THE MAIN AND PIPES 150mm 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.

SUBDRAIN STRUCTURE TABLE

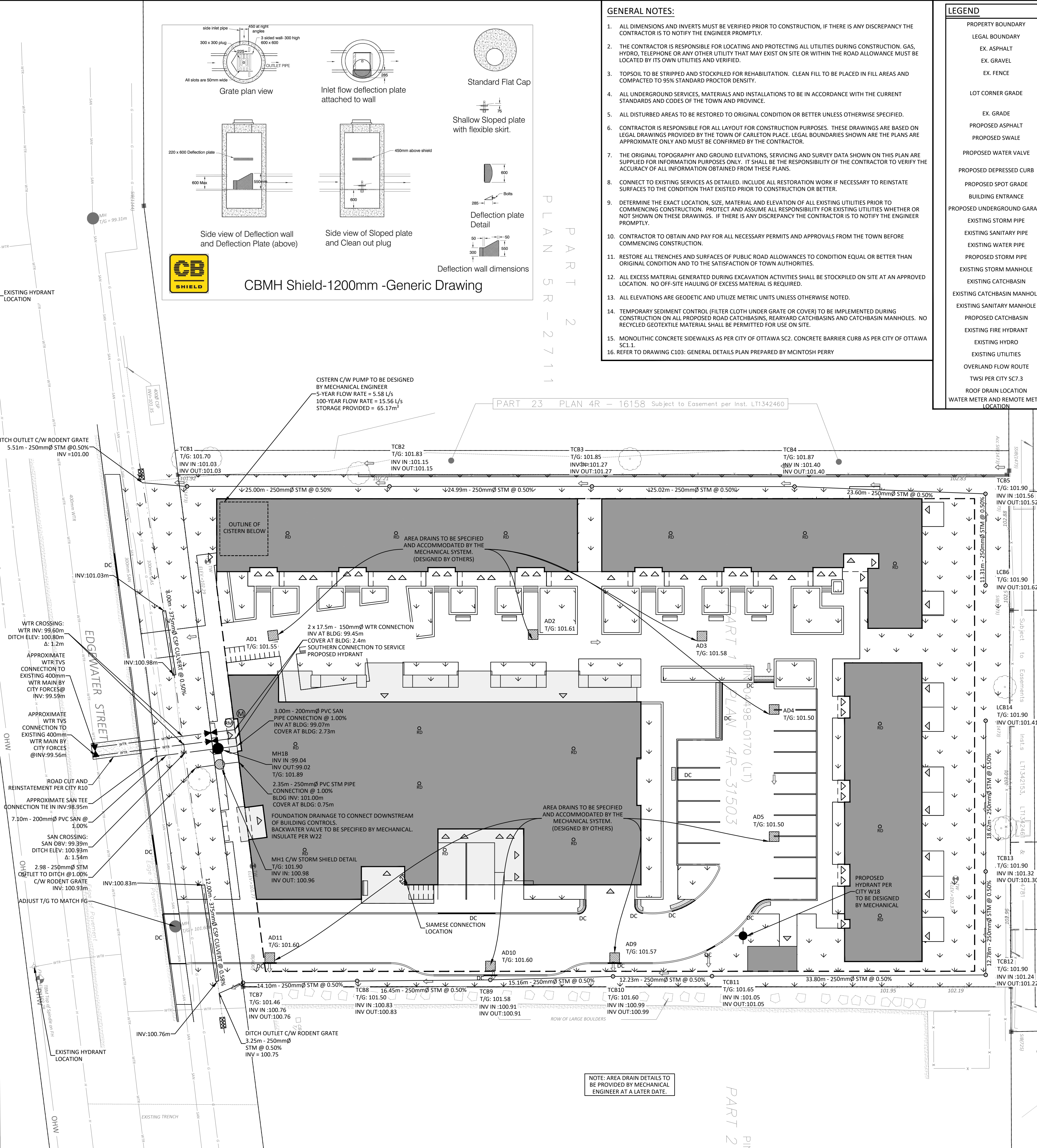
NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
LC86	101.90	NW101.617	SW101.617	CITY S30
LC84	101.90	SE101.413	SW101.413	CITY S31
TC81	101.70	NE101.030	SW101.028	CITY S30
TC82	101.83	NE101.150	SW101.155	CITY S30
TC83	101.85	NE101.270	SW101.275	CITY S30
TC84	101.87	NE101.400	SW101.395	CITY S30
TC85	101.90	SE101.560	SW101.518	CITY S30
TC87	101.46	NE100.760	SW100.756	CITY S30
TC88	101.50	NE100.830	SW100.830	CITY S30
TC89	101.58	NE100.910	SW100.912	CITY S30
TC810	101.60	NE100.990	SW100.988	CITY S30
TC811	101.65	NE101.050	SW101.051	CITY S30
TC812	101.90	NW101.240	SW101.230	CITY S30
TC813	101.90	NW101.320	SE101.304	CITY S30

STM STRUCTURE TABLE

NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
MH1	101.90	NE100.976	SW100.960	STRUC OPSD 701.010 FRAME S25 COVER S24 C/W STORM SHIELD

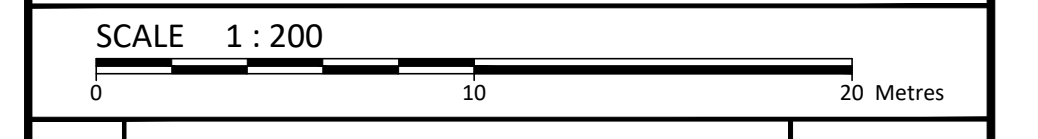
SAN STRUCTURE TABLE

NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
MH1B	101.89	NE99.040	SW99.020	STRUC OPSD 701.010 FRAME S25 COVER S24



BENCHMARKS:

No.	DESCRIPTION	ELEVATION
TBM#1	TOP SPINDLE OF FIRE HYDRANT	102.28m



No.	Revision/Issue	Date
03	ISSUED FOR MUNICIPAL REVIEW	2022/11/04
02	ISSUED FOR MUNICIPAL REVIEW	2022/07/29
01	ISSUED FOR MUNICIPAL REVIEW	2022/06/28
00	ISSUED FOR MUNICIPAL REVIEW	2021/10/22

McINTOSH PERRY
1-1329 Gardiners Road Kingston, ON K7P 0L8
Tel: 613-542-3788 Fax: 613-542-7583
www.mcintoshperry.com

Stamp:

Stamp:

Client: **KEVIN MCMAHON**
PARK RIVER PROPERTIES
206-900 BOULEVARD DE LA CARRIERE, GATINEAU, QC, J8Y 6T5

Project: **16 EDGEWATER HOUSING**

KANATA ONTARIO
Drawing Title: **SERVICING PLAN**

Scale: 1:200	Project Number: CCO-22-0244
Drawn by: M.M.	Checked by: A.G.
Checked by: A.G.	Designed by: S.G.
Designed by: S.G.	C102

PROJECT: 16 Edgewater Housing - Servicing Plan - Mechanical Engineering - 16 Edgewater Housing - 16 Edgewater Housing - 16 Edgewater Housing - 16 Edgewater Housing
 DRAWING: 16 Edgewater Housing - Servicing Plan - Mechanical Engineering - 16 Edgewater Housing - 16 Edgewater Housing - 16 Edgewater Housing - 16 Edgewater Housing
 LAST PLOTTED: Thursday, November 03, 2022 11:58:53 AM
 LAST SAVED: Wednesday, November 02, 2022 11:58:53 AM
 LAST PRINTED: Thursday, November 03, 2022 11:58:53 AM

D07-12-21-0176