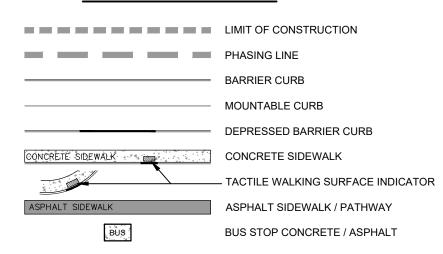
GENERAL LEGEND



SANITARY MANHOLE

SERVICING LEGEND

O MH118A	SANITARY MANHOLE					
200mmØ SAN	SANITARY SEWER					
MH109 MH118	STORM MANHOLE					
825mmØ STM	STORM SEWER - LESS THAN 900Ø					
900mmØ STM	STORM SEWER - 900Ø AND GREATER					
200Ø WATERMAIN	WATERMAIN					
☐ CB100 T/G 104.10	STREET CATCHBASIN C/W TOP OF GRATE					
CICB101	CURB INLET CATCHBASIN C/W GUTTER GRADE					
G/G 104.25 DCB100	DOUBLE CATCHBASIN C/W TOP OF GRATE					
T/G 104.10 DCICB101	DOUBLE CURB INLET CATCHBASIN C/W GUTTER GRADE					
G/G 104.25 DI101 T/G 103.59	DITCH INLET MANHOLE C/W TOP OF GRATE					
CBMH101	CATCHBASIN MANHOLE C/W TOP OF GRATE					
T/G 103.59 RYCB T/G 104.35	REAR YARD CATCHBASIN IN ROAD CONNECTING STRUCTURE C/W SOLID GRATE					
O T/G 104.35 INV 103.35	REAR YARD "TEE" CATCHBASIN (300Ø) C/W TOP OF GRATE AND INVERT OUT					
GT/G 104.50 INV 103.50	REAR YARD "END" CATCHBASIN (300Ø) C/W TOP OF GRATE AND INVERT OUT					
T/G 104.35 NV 103.35	REAR YARD "CUSTOM ANGLED " CATCHBASIN (450Ø) C/W TOP OF GRATE AND INVERT OUT					
T/G 104.35 NV 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					
→ □	PARK VALVE CHAMBER C/W SERVICE POST					
◆ HYD 104.35	FIRE HYDRANT C/W BOTTOM OF FLANGE ELEVATION					
200Ø WM RED 150Ø WM	WATERMAIN REDUCER					
2 VBENDS	VERTICAL BEND LOCATION					
\$	SIAMESE CONNECTION (IF REQUIRED)					
M	METER (IF REQUIRED)					
(M) (RM) (A)	REMOTE METER (IF REQUIRED)					
<u>)</u> (a)	WATERMAIN IDENTIFICATION (IF REQUIRED)					
\bigcirc	PIPE CROSSING IDENTIFICATION (IF REQUIRED)					
\triangleleft	SINGLE SERVICE LOCATION					
\triangleleft	DOUBLE SERVICE LOCATION					
BH 12 102.00	INFERRED REFUSAL (SEE GEOTECHNICAL REPORT)					
HGL 101.79	100 YEAR STORM HYDRAULIC GRADE LINE AT MANHOLE					
USF 101.79	UNDERSIDE OF FOOTING ELEVATION					
***********	CLAY SEAL IN SEWER / WATERMAIN TRENCH					

UTILITY NOTES:

- 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 SPECIFICATIONS DO NOT
- 2. THE POSITION OF UNDERGROUND AND ABOVEGROUND SERVICE, UTILITIES AND STRUCUTRES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH SERVICE, UTILITIES AND STRUCTURES IS NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING SERVICES AND UTILITIES PRIOR TO CONSTRUCTION.
- 3. THE CONTRACTOR SHALL REPORT ALL CONFLICTS, DISCOVERIES OF ERROR AND DISCREPANCIES TO THE ENGINEER.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT AND ASSUME RESPONSIBILITY FOR ALL UTILITIES WHETHER OR NOT SHOW ON THESE DRAWINGS.
- 5. THESE DRAWINGS ARE NOT TO BE SCALED OR USED FOR LAYOUT PURPOSES.
- 6. THE COMPOSITE UTILITY PLAN HAS BEEN REVIEWED BY IBI GROUP FOR CONFORMITY TO THE DESIGN CONCEPT FOR THE DEVELOPMENT AND FOR GENERAL ARRANGEMENT ONLY AND AS SUCH SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN EITHER LAYOUT OR
- 7. 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 DESIGNS.
- 8. CONTRACTOR TO ADVISE ENGINEER IN WRITING OF ANY DISCREPANCIES IN THE HYDRO, BELL, ROGERS, ENBRIDGE, AND STREETLIGHT DRAWINGS, AND THE CUP AHEAD OF INSTALLATION.
- 9. HYDRO INSPECTOR IS TO BE NOTIFIED AND PRESENT AHEAD OF HYDRO INSTALLATION
- 10. BELL AND ROGERS VAULT EASEMENT SIZE AND LOCATION ARE AS SHOWN ON THE CUP. ANY LOCATION DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER IN WRITING AHEAD OF INSTALLATION.
- 11. BELL AND ROGERS VAULTS ARE TO BE PLACED TO THE EXTENT POSSIBLE IN THE RIGHT OF WAY RESPECTING THE REQUIRED CLEARANCES FROM DUCTS IN THE JOINT UTILITY TRENCH. IF VAULTS ARE ON PRIVATE PROPERTY THEY MUST BE PLACED WITHIN THE EASEMENT. VERIFY VAULT CORNERS PRIOR TO FINAL INSTALLATION AND FIBRE LINE PLACEMENT. VAULTS INSTALLED IN THE WRONG LOCATION OR OUTSIDE THE EASEMENTS WILL BE RELOCATED AT THE COST OF BELL AND ROGERS.
- 12. UTILITY EASEMENTS ARE TO BE STAKED ALL 4 CORNERS WITH PROPOSED FINAL GRADES MARKED ON THE STAKES.

INLET CONTROL DEVICE

- 13. STREETLIGHTS ARE TO BE INSTALLED AT THE OFFSETS FROM FACE OF CURB SHOWN ON THE APPROVED ROAD SECTIONS FOR THE PROJECT.
- 14. CAD FILES OF THE CUP PROVIDED BY THE ENGINEER ARE AS A COURTESY ONLY TO ASSIST THE CONTRACTOR. LAYOUT OF THE UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR AND LEGAL SURVEYOR.

CATCHBASIN/CATCHBASIN MANHOLE/DITCH INLET DATA

OUTLET PIPE PONDING DATA

			FRAME & COVER	LLEVATION		COTLLI		PONDING DATA				┥		
	STORM			TOP OF	INVERT		DIAMETER		Static Ponding	100yr	RESTRICTED FLOW		ORIFICE SIZE	COMMENTS
	AREA ID			TOP OF GRATE	INLET	OUTLET	(mm)	ТҮРЕ	Elevation (Spill Elevation)	Dynamic HEAD	(I/s)	ICD TYPE	CIRCULAR (mm dia.)	COMMENTS
CB1	S1	OPSD 705.010	S19	106.22		104.66	200	PVC DR35	106.41	1.650	6.00	IPEX LMF		Vortex
CB1A	S1	OPSD 705.010	S19	106.22		104.66	200	PVC DR35	106.41	1.650	6.00	IPEX LMF		Vortex
CB3	S3	OPSD 705.010	S19	106.29		104.89	200	PVC DR35	106.38	1.650	9.00	CUSTOM IPEX HF		HYDROVEX 100 VHV-1, Ganged CBs
CB3A	S3	OPSD 705.010	S19	106.29	104.84	104.82	200	PVC DR35	106.38	1.650				Ganged CBs
CB4	S20	OPSD 705.010	S19	106.27		104.62	200	PVC DR35	106.37	1.650	6.00	IPEX LMF		Vortex
CB4A	S20	OPSD 705.010	S19	106.27		104.62	200	PVC DR35	106.37	1.650	19.00	IPEX MHF	83	
CB5	S5	OPSD 705.010	S19	106.26	104.81	104.79	200	PVC DR35	106.33	1.650				Ganged CBs, Custom ICD, controlled at MH70
CB5A	S5	OPSD 705.010	S19	106.26		104.86	200	PVC DR35	106.33	1.650				Ganged CBs, Custom ICD, controlled at MH70
CB6	S6	OPSD 705.010	S19	106.21		104.53	200	PVC DR35	106.28	1.650	6.00	IPEX LMF		Vortex, Ganged CBs
CB6A	S6	OPSD 705.010	S19	106.21		104.53	200	PVC DR35	106.28	1.650				Ganged CBs
CB7	S 7	OPSD 705.010	S19	106.16	104.71	104.69	200	PVC DR35	106.23	1.650				Ganged CBs, Custom ICD, controlled at MH80
CB7A	S 7	OPSD 705.010	S19	106.16		104.76	200	PVC DR35	106.23	1.650				Ganged CBs, Custom ICD, controlled at MH80
CB8	S8	OPSD 705.010	S19	106.11		104.43	200	PVC DR35	106.18	1.650				Vortex, Ganged CBs
CB8A	S8	OPSD 705.010	S19	106.11		104.43	200	PVC DR35	106.18	1.650	6.00	IPEX LMF		Ganged CBs
CB9	S40B	OPSD 705.010	S19	106.07		104.48	200	PVC DR35	106.23	1.650	19.00	IPEX MHF	83	-
CB9A	S40B	OPSD 705.010	S19	106.07		104.48	200	PVC DR35	106.23	1.650	19.00	IPEX MHF	83	
CB10	S9	OPSD 705.010	S19	106.11	104.66	104.64	200	PVC DR35	106.18	1.650	10.00			HYDROVEX 100 VHV-1, Ganged CBs
CB10A	S9	OPSD 705.010	S19	106.11		104.71	200	PVC DR35	106.18	1.650	N/A			Ganged CBs, Custom ICD
CB11	S10	OPSD 705.010	S19	106.02		104.62	200	PVC DR35	106.18	1.650	11.00	CUSTOM IPEX HF	1	HYDROVEX 100 VHV-1
CB11A	S10	OPSD 705.010	S19	106.02	104.54	104.52	200	PVC DR35	106.18	1.650	19.00	IPEX MHF		THERE VEX 100 VIIV 1
CB12	S4	OPSD 705.010	S19	106.02	104.54	104.87	200	PVC DR35	106.38	1.650	N/A	11 22(141111		Ganged CBs, Custom ICD, controlled at MH70
CB12A	S4	OPSD 705.010	S19	106.28	104.79	104.77	200	PVC DR35	106.38	1.650	N/A			Ganged CBs, Custom ICD, controlled at MH70
CB12A CB21	S21	OPSD 705.010	S19	106.22	104.79	104.77	200	PVC DR35	106.33	1.650	6.00	IPEX LMF		Vortex
CB21A	S21	OPSD 705.010	S19	106.22		104.58	200	PVC DR35	106.33	1.650	19.00	IPEX MHF	83	Voitex
	S21A	OPSD 705.010	S19	106.22		104.38	200	PVC DR35	106.33	1.650	6.00	IPEX LMF	03	Votev
CB21B										1.650	6.00	IPEX LMF		Vortex
CB21C	S21A	OPSD 705.010	S19	106.17		104.42	200	PVC DR35	106.17					Vortex
CB22	S22	OPSD 705.010	S19	106.26		104.66	200	PVC DR35	106.41	1.650	6.00	IPEX LMF		Vortex
CB22A	S22	OPSD 705.010	S19	106.26		104.66	200	PVC DR35	106.41	1.650	6.00	IPEX LMF		Vortex
CB23	S5A	OPSD 705.010	S19	106.22		104.82	200	PVC DR35	106.33	1.650				Ganged CBs, Custom ICD, controlled at MH70
CB23A	S5A	OPSD 705.010	S19	106.22	104.74	104.72	200	PVC DR35	106.33	1.650				Ganged CBs, Custom ICD, controlled at MH70
CB30	S30	OPSD 705.010	S19	106.12		104.53	200	PVC DR35	106.28	1.650	19.00	IPEX MHF	83	
CB30A	S30	OPSD 705.010	S19	106.13		104.53	200	PVC DR35	106.28	1.650	14.00	CUSTOM IPEX HF		HYDROVEX 125 VHV-2
CB31B	S31	OPSD 705.010	S19	106.08		104.48	200	PVC DR35	106.23	1.650	19.00	IPEX MHF	83	
CB31C	S31	OPSD 705.010	S19	106.07		104.48	200	PVC DR35	106.23	1.650	19.00	IPEX MHF	83	
CB32	S32	OPSD 705.010	S19	106.26		104.56	200	PVC DR35	106.31	1.650	6.00	IPEX LMF		Vortex
CB32A	S32	OPSD 705.010	S19	106.26		104.56	200	PVC DR35	106.31	1.650	6.00	IPEX LMF		Vortex
CB33	S6A	OPSD 705.010	S19	106.17	104.72	104.70	200	PVC DR35	106.28	1.650				Ganged CBs, Custom ICD, controlled at MH80
CB33A	S6A	OPSD 705.010	S19	106.17		104.77	200	PVC DR35	106.28	1.650				Ganged CBs, Custom ICD, controlled at MH80
CB34	S7A	OPSD 705.010	S19	106.10		104.70	200	PVC DR35	106.23	1.650				Ganged CBs, Custom ICD, controlled at MH80
CB34A	S7A	OPSD 705.010	S19	106.10	104.62	104.60	200	PVC DR35	106.23	1.650				Ganged CBs, Custom ICD, controlled at MH80
CB40	S40A	OPSD 705.010	S19	105.44		103.69	200	PVC DR35	105.44	1.650	9.00	CUSTOM IPEX HF		HYDROVEX 100 VHV-1
CB40A	S40A	OPSD 705.010	S19	105.44		103.69	200	PVC DR35	105.44	1.650	6.00	IPEX LMF		Vortex
CB41	S8A	OPSD 705.010	S19	106.06	104.61	104.59	200	PVC DR35	106.18	1.650	8.00			HYDROVEX 100 VHV-1
CB41A	S8A	OPSD 705.010	S19	106.06		104.66	200	PVC DR35	106.18	1.650	N/A			Ganged CBs,
CB50	S50	OPSD 705.010	S19	106.17		104.54	200	PVC DR35	106.29	1.650	10.00	CUSTOM IPEX HF		HYDROVEX 100 VHV-1
CB50A	S50	OPSD 705.010	S19	106.17		104.54	200	PVC DR35	106.29	1.650	19.00	IPEX MHF	83	
CB51	S54	OPSD 705.010	S19	106.12		104.42	200	PVC DR35	106.17	1.650	6.00	IPEX LMF	1	Vortex
CB51A	S54	OPSD 705.010	S19	106.12		104.42	200	PVC DR35	106.17	1.650	6.00	IPEX LMF		Vortex
CB51A	S52	OPSD 705.010	S19	106.12		104.42	200	PVC DR35	106.32	1.650	6.00	IPEX LMF		Vortex
CB52A	\$52 \$52	OPSD 705.010	S19	106.21		104.57	200	PVC DR35	106.32	1.650	19.00	IPEX MHF	83	A OLIGY
OD32A	332	OF 3D 703.010	318	100.21		104.57	200	L AC DK99	100.32	1.000	19.00	II LAWITE	1 03	
CB110		ODED 705 040	040	104.05		100.05	200	D//0 DD05	407.45	1.650	+		1	
MH70		OPSD 705.010	S19	104.25		102.85	200	PVC DR35	137.15	2.364	17.00	CUSTOM IPEX HF		Lh.d===== 405 \/LB / 0
														Hydrovex 125 VHV-2
MH80										2.583	19.00	CUSTOM IPEX HF	1	Hydrovex 125 VHV-2

NOTES:

- 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 SPECIFICATIONS DO NOT
- 2. THE POSITION OF UNDERGROUND AND ABOVEGROUND SERVICE, UTILITIES AND STRUCUTRES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH SERVICE, UTILITIES AND STRUCTURES IS NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING SERVICES AND UTILITIES PRIOR TO CONSTRUCTION.
- 3. THE CONTRACTOR SHALL REPORT ALL CONFLICTS, DISCOVERIES OF ERROR AND DISCREPANCIES TO THE ENGINEER.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT AND ASSUME RESPONSIBILITY FOR ALL UTILITIES WHETHER OR NOT SHOW ON THESE DRAWINGS.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL LANDS BEYOND THE SITE LIMITS. ANY AREAS BEYOND THE SITE LIMITS, WHICH ARE DISTURBED DURING CONSTRUCTION, SHALL BE REPAIRED AND RESTORED TO ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE ADJACENT LAND OWNER, THE OWNER, THE OWNERS REPRESENTATIVES AND/OR THE AUTHORITY HAVING JURSIDICTION AT THE EXPENSE OF THE CONTRACTOR.
- 6. WHERE NECESSARY, THE CONTRACTOR SHALL IMPLEMENT A TRAFFIC MANAGEMENT PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA. ALL CONSTRUCTION SIGNAGE MUST CONFORM TO THE LATEST VERSION OF THE M.T.O. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ALL TEMPORARY TRAFFIC CONTROL MEASURES MUST BE REMOVED UPON THE COMPLETION OF THE WORKS.
- 7. SHOULD ANY BURIED ARCHAEOLOGICAL REMAINS BE FOUND ON THE PROPERTY DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL NOTIFY THE OWNER TO CONTACT THE HERITAGE OPERATIONS UNIT OF THE ONTARIO MINISTRY OF CULTURE MUST BE NOTIFIED IMMEDIATE, AND WORK WITHIN THE AREA SHALL BE CEASED UNTIL FUTHER NOTICE.
- 8. FOR GEOTECHNICAL INFORMATION REFER TO GEOTECHNICAL REPORT 102166 PREPARED BY GEMTEC.

LOCAL ROAD: (640 mm)

40mm - SUPERPAVE 12.5 ASPHALTIC CONCRETE
50mm - SUPERPAVE 19.0 ASPHALTIC CONCRETE
150mm - OPSS GRANULAR "A" CRUSHED STONE
400mm - OPSS GRANULAR "B" TYPE II

9. FOR GEODETIC <u>BENCHMARK</u> AND GEOMETRIC LAYOUT OF STREET AND LOTS, REFER TO TOPOGRAPHICAL SURVEY AND PLAN OF SUBDIVISION PREPARED BY STANTEC BENCHMARK BASED ON CAN--NET VIRTUAL REFERENCE SYSTEM NETWORK.

10. FOR SITE PLAN INFORMATION, REFER TO SITE PLAN PREPARED BY STANTEC.

11. THESE DRAWINGS ARE NOT TO BE SCALED OR USED FOR LAYOUT PURPOSES

- 12. 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 GEOTECHNICAL ENGINEER.
- 13. 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 BLOCKS.
- 14. REFER TO DRAWING 011 FOR ROADWAY CROSS SECTIONS (IF APPLICABLE).
- 15. THE CONTRACTOR SHALL IMPLEMENT THE EROSION AND SEDIMENT CONTROL PLAN PRIOR TO THE COMMENCEMENT OF ANY SITE CONSTRUCTION. ALL EROSION AND SEDIMENT CONTRAL MEASURES SHALL BE INSTALLED TO THE SATISFACTION OF THE ENGINEER, OR ANY REGULATORY AGENCY. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL VEGETATION IS ESTABLISH OR UNTIL THE START OF A SUBSEQUENT PHASE.
- 16. CONTRACTORS SHALL BE RESPONSIBLE FOR KEEPING CLEAN ALL ROADS WHICH BECOME COVERED IN
- 16. CONTRACTORS SHALL BE RESPONSIBLE FOR KEEPING CLEAN ALL ROADS WHICH BECOME COVERED II DUST, DEBRIS AND/OR MUD AS A RESULT OF ITS CONSTRUCTION OPERATIONS.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL BEDDING OR ADDITIONAL STRENGTH PIPE SHOULD THE MAXIMUM OPSD TRENCH WIDTH BE EXCEEDED.
- 18. ALL PIPE, CULVERTS, STRUCTURES REFER TO NOMINAL INSIDE DIMENSIONS.
- 19. SHOULD CLAY SEALS BE REQUIRED, THEY SHALL BE INSTALLED AS PER THE RECOMMENDATIONS WITHIN THE GEOTECHNICAL REPORT.
- 20. UNLESS SPECIFICALLY NOTED OTHERWISE, PIPE MATERIALS SHALL BE AS FOLLOWS; -WATERMAINS TO BE PVC DR18
- -WATERMAINS TO BE PVC DR18
 -SANITARY SEWER TO BE PVC DR35
 DEDECORATED STORM SEWERS IN DEAD VARDS AND LANDSCARE AREAS TO BE HODE
- -PERFORATED STORM SEWERS IN REAR YARDS AND LANDSCAPE AREAS TO BE HDPE
 -STORM SEWERS 375MM DIAMETER AND LESS TO BE PVC DR35
 -STORM SEWERS 450MM DIAMETER AND GREATER TO BE CONCRETE, CLASS AS PER OPSD 807.010 OR
- 807.030, OR HIGHER
 FOR SHALLOW SEWERS, REFER TO CITY STANDARD S35.

 21. ALL CONNECTIONS TO EXISTING WATERMAINS ARE TO BE COMPLETED BY CITY FORCES. CONTRACTOR IS
- TO EXCAVATE, BACKFILL, COMPACT AND REINSTATE.

 22. ANY WATERMAIN WITH LESS THAN 2.4M, AND ANY SEWER WITH LESS THAN 2.0M DEPTH OF COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE
- 23. ALL FIRE HYDRANTS AS PER CITY STANDARD W19, c/w 150mmØ LEAD UNLESS OTHERWISE SPECIFIED.
- 24. ALL STUBBED SEWERS SHALL HAVE PRE-MANUFACTURED CAPS INSTALLED.
- 25. ALL CATCHBASINS SHALL HAVE A 600MM SUMP. ALL CATCHBASIN MANHOLES, AND ALL STORM MANHOLES WITH OUTLETTING PIPE SIZES LESS THAN 900MM, SHALL HAVE A 300MM SUMP.
- 26. ALL SANITARY MANHOLES SHALL BE EQUIPPED WITH A WATERTIGHT COVER.
- 27. ALL LEADS FOR STREET CATCHBASIN'S AND CURB INLET CATCHBASIN'S CONNECTED TO MAIN SHALL BE 200MMØ PVC 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.
- 28. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL STREET CATCHBASINS SHALL BE INSTALLED WITH TWO 3.0M MINIMUM SUBDRAINS INSTALLED LONGITUDINALLY, PARALLEL WITH THE CURB. ALL CATCHBASINS IN ASPHALT AREAS, NOT ADJACENT TO A CURB, SHALL BE INSTALLED WITH FOUR 3.0M MINIMUM SUBDRAINS INSTALLED ORTHOGONALLY.
- 29. INLET CONTROL DEVICES SHALL BE INSTALLED PRIOR TO COMPLETING THE ROAD BASE (GRANULAR A).
- 30. ALL SEWER SERVICE LATERALS WITH MAINLINE CONNECTIONS DEEPER THAN 5.0M REQUIRE A
- CONTROLLED SETTLEMENT JOINT.

 31. EACH BUILDING SHALL BE EQUIPPED WITH A SANITARY AND STORM SEWER BACKWATER VALVE AND
- CLEAN-OUT ON ITS PRIMARY SERVICE, AS PER ONTARIO BUILDING CODE REQUIREMENTS (BY OTHERS).

 32. THE HGL PROVIDED IS BASED ON HYDRAULIC MODELING COMPLETED USING XPSWMM AND THE 100 YEAR
- CHICAGO STORM EVENT (C3H10010).

 33. THE SUBGRADE OF ALL STRUCTURES, PIPE, ROADS, SIDEWALKS, WALKWAYS, AND BUILDINGS SHALL BE
- INPSECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

 34. TOP COURSE ASPHALT SHALL NOT BE PLACED UNTIL THE FINAL CCTV INSPECTION AND NECESSARY
- REPAIRS HAVE BEEN COMPLETED TO THE SATISFACTION OF THE ENGINEER AND THE CITY OF OTTAWA.

 35. ALL RETAINING WALLS GREATER THAN 1.0M IN HEIGHT SHALL BE DESIGNED BY A QUALIFIED STRUCTURAL
- 36. ALL RETAINING WALLS GREATER THAN 0.6M IN HEIGHT REQUIRE A GUARD. ANY GUARD ON A RETAINING WALL GREATER THAN 1.0M IN HEIGHT SHALL BE DESIGNED BY THE QUALIFIED STRUCTURAL ENGINEER RESPONSIBLE FOR THE WALL DESIGN.
- 37. UPON COMPLETION OF THE RETAINING WALL, THE CONTRACTOR SHALL REQUEST A CONFORMANCE CERTIFICATE FROM THE QUALIFIED ENGINEER RESPONSIBLE FOR THE WALL DESIGN.

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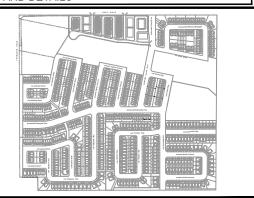
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conditions shown on the drawing. Shop drawings shall be submitted to Arcadis for general conformance before proceeding with fabrication.

is a part of Arcadis						
ISSUES						
No.	DESCRIPTION	DATE				
1	SUBMISSION NO.1 FOR CITY REVIEW	2022-09-15				
2	SUBMISSION NO.2 FOR CITY REVIEW	2024-06-27				
3	REVISED PER CITY COMMENTS	2025-03-21				
4	REVISED PER NEW SITE PLAN	2025-05-12				
5	SUBMISSION NO.4 FOR CITY REVIEW	2024-07-31				
6						
7						
8						

SEE 010, 011 FOR NOTES, LEGEND, CB TABLE, STREET SECTIONS AND DETAILS



CONSULTANTS

EAL



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PROJECT

1650 SHEA ROAD

(OTTAWA, ON)

PROJECT NO: 139185	
DRAWN BY: M.M.	CHECKED BY: R.M./D.Y.
PROJECT MGR: R.M.	APPROVED BY: R.M./D.Y.

CB DATA TABLE

SHEET TITLE

NOTES, LEGEND,

SHEET NUMBER

10 | 5

CITY PLAN No. 19029

ISSUE

12.

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