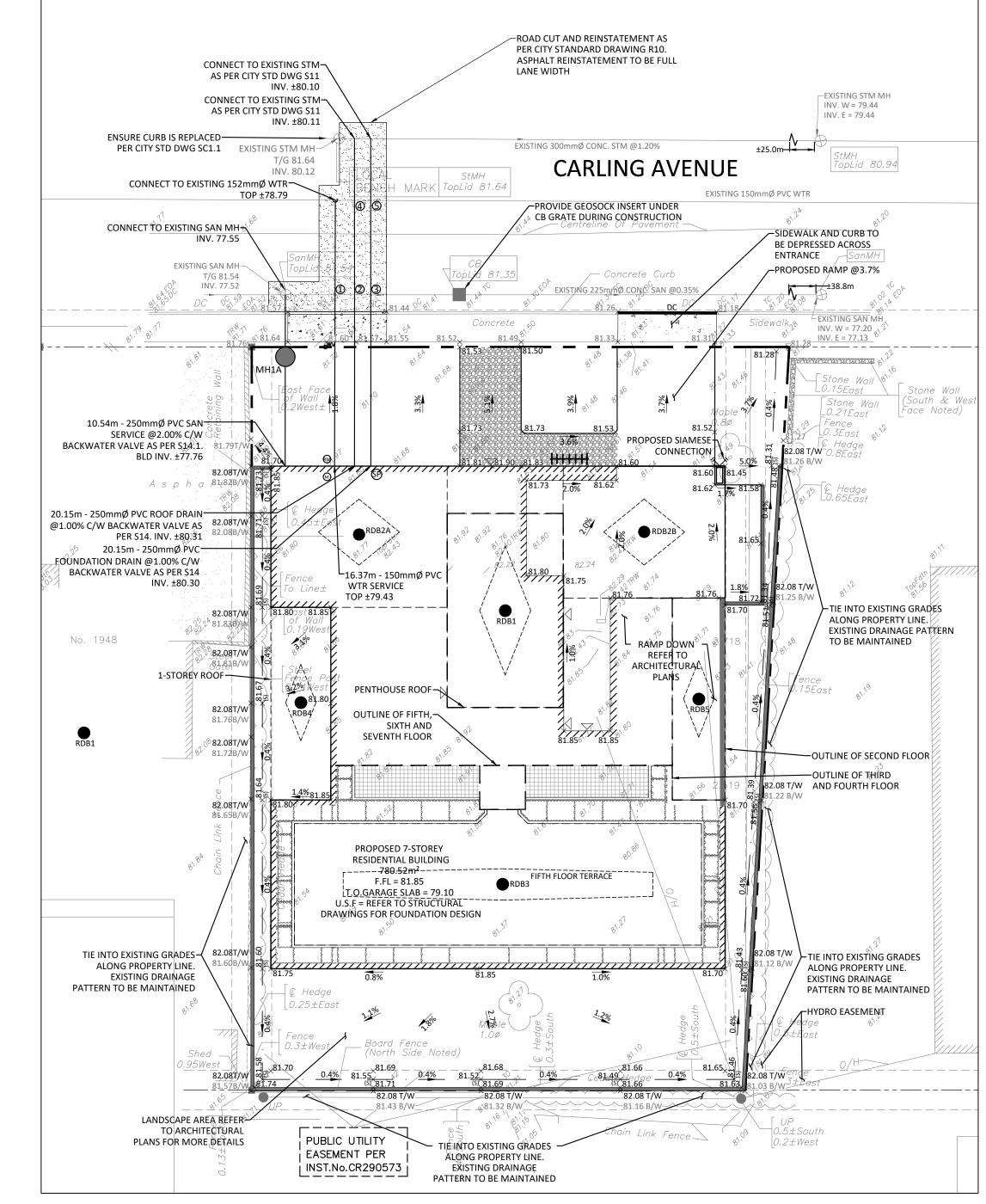
-ROAD CUT AND REINSTATEMENT AS

PER CITY STANDARD DRAWING R10.

LANE WIDTH

ASPHALT REINSTATEMENT TO BE FULL



EROSION AND SEDIMENT CONTROL

- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THIS INCLUDES LIMITING THE AMOUNT OF EXPOSED SOIL. TEMPORARY SEDIMENT CONTROL (GEOSOCK INSERTS WITH AN OVERFLOW UNDER GRATE OR COVER) TO BE IMPLEMENTED DURING CONSTRUCTION ON ALL PROPOSED ROAD CATCHBASINS, REARYARD CATCHBASINS AND CATCHBASIN MANHOLES AND OTHER SEDIMENT TRAPS. NO RECYCLED
- GEOSOCK MATERIAL SHALL BE PERMITTED FOR USE ON SITE. AT THE DISCRETION OF THE PROJECT MANAGER OR MUNICIPAL STAFF, ADDITIONAL SILT CONTROL DEVICES SHALL BE INSTALLED AT DESIGNATED
- 3. FOR SILT FENCE BARRIER, USE OPSD 219.110. GEOTEXTILE FOR SILT FENCE AS PER OPSS 1860, TABLE 3.
- 4. EXCEPT AS PROVIDED IN PARAGRAPHS 4.1., and 4.2. BELOW, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS FEASIBLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY
- PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED, (E.G. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN 21 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE

AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASE IS

- INITIATED ON THAT PORTION OF SITE BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY CEASED. SEDIMENT THAT IS ACCUMULATED BY THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED IN A MANNER THAT AVOIDS ESCAPE OF THE SEDIMENT TO THE DOWNSTREAM SIDE OF THE CONTROL MEASURE AND AVOIDS DAMAGE TO THE CONTROL MEASURE. SEDIMENT SHALL BE REMOVED TO THE LEVEL OF THE GRADE EXISTING AT THE TIME THE CONTROL MEASURE WAS
- 5.1. FOR LIGHT-DUTY SEDIMENT BARRIERS, ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE IT REACHES THE LESSER OF THE FOLLOWING: 5.1.1. A DEPTH OF ONE-HALF THE EFFECTIVE HEIGHT OF THE CONTROL

CONSTRUCTED AND BE ACCORDING TO THE FOLLOWING:

- A DEPTH OF 300 MM IMMEDIATELY UPSTREAM OF THE CONTROL MEASURE 5.2. FOR ALL CONTROL MEASURES, ACCUMULATED SEDIMENT SHALL BE REMOVED
- AS NECESSARY TO PERFORM MAINTENANCE REPAIRS. ACCUMULATED SEDIMENT SHALL BE REMOVED PRIOR TO THE REMOVAL OF ACCUMULATED SEDIMENT IS TO BE REMOVED AND DISPOSED OF AS PER OPSS

- 6. ALL TEMPORARY FROSION AND SEDIMENT CONTROL MEASURES SHALL BE MONITORED TO ENSURE THEY ARE IN EFFECTIVE WORKING ORDER. THE CONDITION OF THE CONTROL MEASURES SHALL BE MONITORED PRIOR TO ANY FORECAST STORM EVENT AND FOLLOWING A STORM EVENT.
- DUST CONTROL MEASURES SHOULD BE CONSIDERED PRIOR TO CLEARING AND GRADING. THE USE OF WATER, CALCIUM CHLORIDE ELAKES/SOLUTION OR MAGNESIUM CHLORIDE FLAKES/SOLUTION SHALL BE USED AS DUST SUPPRESSANTS AS PER OPSS 506. THIS IS TO LIMIT WIND EROSION OF SOILS WHICH MAY TRANSPORT SEDIMENTS OFFSITE, WHERE THEY MAY BE WASHED INTO THE RECEIVING WATER BY THE NEXT
- 8. ALL 'GREEN AREAS' TO BE TREATED WITH 150mm TOPSOIL AND HYDROSEEDING AS SOON AS FEASIBLE, AS PER OPSS
- 9. TOPSOIL TO BE STRIPPED AND STOCKPILED FOR REHABILITATION. CLEAN FILL TO BE PLACED IN FILL AREAS
- AND COMPACTED TO 95% STANDARD PROCTOR DENSITY. 10. ALL DISTURBED AREAS TO BE RESTORED TO ORIGINAL
- CONDITION OR BETTER UNLESS OTHERWISE SPECIFIED. 11. STOCKPILED MATERIAL IS TO BE STORED AWAY FROM POTENTIAL RECEIVERS (E.G. STORM CATCHBASINS, MANHOLES), AND BE SURROUNDED BY EROSION CONTROL
- MEASURES WHERE MATERIAL IS LEFT IN PLACE IN EXCESS 12. IF REQUIRED, DEWATERING/SETTLING BASINS SHALL BE CONSTRUCTED AS PER OPSD 219.240 AND LOCATED ON FLAT GRADE UPSTREAM OF OTHER EXISTING MITIGATION MEASURES, WATERCOURSES SHALL NOT BE DIVERTED, OR BLOCKED. AND TEMPORARY WATERCOURSES CROSSINGS
- SHALL NOT BE CONSTRUCTED OR UTILIZED, UNLESS OTHERWISE SPECIFIED IN THE CONTRACT. IF CLOSURE OF ANY PERMANENT WATER PASSAGE IS NECESSARY, THE CONTRACTOR SHALL RELEASE ANY STRANDED FISH TO THE OPEN PORTION OF THE WATERCOURSE WITHOUT HARM
- 13. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM TO OPSS 577
- 14. WHERE DEWATERING IS REQUIRED, THE DISCHARGED WATER SHALL BE CONTROLLED IN ACCORDANCE WITH OPSS
- 15. ALL SETTLING/FILTRATION BASINS SHALL BE EQUIPPED WITH TERRAFIX 270R GEOTEXTILE (OR APPROVED FOUIVALENT) AND SHALL BE CLEANED AND REPLACED AS REQUIRED.

GENERAL NOTES

- 1. THE ORIGINAL TOPOGRAPHY, GROUND ELEVATION AND SURVEY DATA SHOWN ARE SUPPLIED FOR INFORMATION PURPOSES ONLY, AND IMPLY O GUARANTEE OF ACCURACY. IT SHALL BE THE RESPONSIBILITY OF THE
- CONTRACTOR TO VERIFY ALL INFORMATION SHOWN. THIS PLAN IS NOT A CADASTRAL SURVEY SHOWING LEGAL PROPERTY BOUNDARIES AND EASEMENTS. THE PROPERTY BOUNDARIES SHOWN HEREON HAVE BEEN DERIVED INFORMATION SUPPLIED BY (OR SHOWN ON) FARI FY, SMITH, DENIS LTD PLAN #461-06, AND CANNOT BE RELIED. UPON TO 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
- ONTARIO LAND SURVEYOR. 3. THE CONTRACTOR IS TO OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY BEFORE COMMENCING CONSTRUCTION.

SUBSEQUENT CADASTRAL SURVEY PERFORMED AND CERTIFIED BY AN

- 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. . EXCAVATE AND DISPOSE OF ALL EXCESS EXCAVATED MATERIAL, SUCH AS
- ASPHALT, CURBING AND DEBRIS, OFF SITE AS DIRECTED BY THE ENGINEER 8. TOPSOIL TO BE STRIPPED AND STOCKPILED FOR REHABILITATION. CLEAN
- PROCTOR DENSITY.
- TELEVISION SERVICE ROGERS.
- FILL TO BE PLACED IN FILL AREAS AND COMPACTED TO 95% STANDARD
- 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 SAFFTY MEASURES DURING THE CONSTRUCTION PERIOD, INCLUDING THE SUPPLY, INSTALLATION, AND REMOVAL OF ALL NECESSARY SIGNAGE. DELINEATORS, MARKERS AND BARRIERS.

SERVICING, SITE GRADING AND DRAINAGE

- 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 AWAY FROM THE
- 13. CONTACT THE CITY FOR INSPECTION OF ROUGH GRADING OF PARKING LOTS, ROADWAYS AND LANDSCAPED AREAS PRIOR TO PLACEMENT OF ASPHALT AND TOPSOIL. ALL DEFICIENCIES NOTED SHALL BE RECTIFIED TO THE CITY'S SATISFACTION PRIOR TO PLACEMENT OF ANY ASPHALT,
- TOPSOIL, SEED & MULCH AND/OR SOD. 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,
- 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 KOLLAARD ASSOCIATES. DATED APRIL 30.

SEWER NOTES:

OTHERWISE.

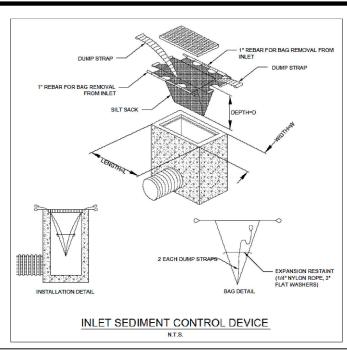
- CONSTRUCT ALL SEWERS, CATCH BASINS, MANHOLES AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY.
- 2. SEWER TRENCHING AND BEDDING SHALL CONFORM TO OPSD 802.010 AND 802.013 UNLESS NOTED OTHERWISE.
- 2.1. BEDDING SHALL BE A MINIMUM 150mm OF GRANULAR "A", COMPACTED 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. 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
- . 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
- 8. CONTRACTOR TO TELEVISE (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.

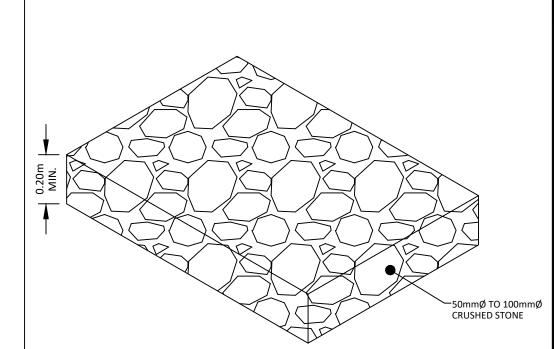
WATERMAIN NOTES

- CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY
- 2. INDUSTRIAL/COMMERCIAL SERVICE CONNECTIONS TO BE 50mm COPPER
- PIPING AND SHALL CONFORM TO ASTM B88 TYPE 'K' SOFT. 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. 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.
- THERMAL INSULATION OF WATERMAINS AT OPEN STRUCTURES AS PER CITY STANDARDS (IF AVAILABLE) OR OPSD 1109.030.
- . VALVES TO BE OPERATED BY CITY STAFF ONLY. . 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 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.
- 9. ALL WATERMAINS SHALL BE EQUIPPED WITH BUTTERFLY AND GATE VALVES AS PER OPSD 1100.011.
- 10. ALL FIRE HYDRANTS, VALVE AND VALVE BOX HSALL CONFORM TO OPSD

12. ALL WATERMAIN TO BE CLASS 150 DR-18 OR APPROVED EQUIVALENT.

- 11. CONCRETE THRUST BLOCKS TO CONFORM TO OPSD 1103.010 AND OPSD
- 13. ALL WATERMAIN TO BE EQUIPPED WITH TRACER WIRE





Z		
ROOF D	DRAIN (B1)	
TYPE OF CONTROL DEVICE		GE RD-100-A-ADJ EXPOSED)
	2-YEAR	100-YEAR
ROOFTOP STORAGE (m ³)	1.28	3.20
DEPTH OF FLOW (m)	0.020	0.025
FLOW PER ROOF DRAIN (L/S)	0.25	0.630
DRAW DOWN TIME	73 min	74 min

ROOF D	ROOF DRAIN (B2A)		
TYPE OF CONTROL DEVICE	WATTS DRAINAGE RD-100-A-A (FULLY EXPOSED)		
	2-YEAR	100-YEAR	
ROOFTOP STORAGE (m ³)	2.83	6.72	
DEPTH OF FLOW (m)	0.040	0.095	
FLOW PER ROOF DRAIN (L/S)	0.50	1.200	
DRAW DOWN TIME	83 min	90 min	

ROOF DRAIN (B2B)		
TYPE OF CONTROL DEVICE	WATTS DRAINAGE RD-100 (FULLY EXPOSED)	
	2-YEAR	100-YEAR
ROOFTOP STORAGE (m ³)	2.42	6.06
DEPTH OF FLOW (m)	0.040	0.100
FLOW PER ROOF DRAIN (L/S)	0.50	1.260
DRAW DOWN TIME	74 min	75 min

DIVAM DOMIN HIME	/4 !!!!!	/ / / / / / / / / / / / / / / / / / / /	
ROOF D	DRAIN (B3)		
TYPE OF CONTROL DEVICE	WATTS DRAINAGE RD-100 (FULLY EXPOSED)		
	2-YEAR	100-YEAR	
ROOFTOP STORAGE (m ³)	4.97	12.08	
DEPTH OF FLOW (m)	0.035	0.085	
FLOW PER ROOF DRAIN (L/S)	0.44	1.070	
DRAW DOWN TIME	170 min	181 min	

ROOF DRAIN (B4)			
TYPE OF CONTROL DEVICE	WATTS DRAINAGE RD-100- (FULLY EXPOSED)		
	2-YEAR	100-YEAR	
ROOFTOP STORAGE (m ³)	0.49	1.31	
DEPTH OF FLOW (m)	0.015	0.040	
FLOW PER ROOF DRAIN (L/S)	0.190	0.500	
DRAW DOWN TIME	42 min	38 min	

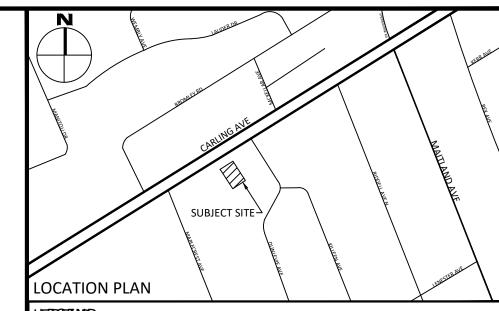
ROOF DRAIN (B5)		
TYPE OF CONTROL DEVICE	WATTS DRAINAGE RD-100-A (FULLY EXPOSED)	
	2-YEAR	100-YEAR
ROOFTOP STORAGE (m ³)	0.45	1.21
DEPTH OF FLOW (m)	0.015	0.040
FLOW PER ROOF DRAIN (L/S)	0.190	0.500
DRAW DOWN TIME	37 min	34 min

SAN STRUCTURE TABLE					BLE
	NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
	MH1A	81.70	SE77.64	NW77.61	COVER CITY STD S FRAME CITY STD S STRUC. OPSD 701.

WATER COVER TABLE				
LOCATION	STATION	FINISHED GRADE	TOP OF PIPE	COVER
BUILDING	0+100.00	81.75	79.20	2.55
VALVE	0+101.62	81.66	79.14	2.52
CROSSING 1	0+110.54	81.50	79.01	2.49
CONNECTION TO MAIN	0+116.37	81.57	78.79	2.78

CDOSSING CONFLICT TABLE

	CROSSING CONFLICT TABLE	
LOCATION	DESCRIPTION	SEPARATIO
1	150mmØ WTR SERVICE INV 78.86	1 02
1	225mmØ SAN SEWER OBV 77.83	1.03
2	200mmØ STM SERVICE INV 80.21	2.47
	225mmØ SAN SEWER OBV 77.74	2.47
3	200mmØ STM SERVICE INV 80.20	2.47
	225mmØ SAN SEWER OBV 77.73	2.47
4	200mmØ STM SERVICE INV 80.15	1.36
· .	152mmØ WTR SEWER OBV 78.79	1.50
5	200mmØ STM SERVICE INV 80.14	1.35
	152mmØ WTR SEWER OBV 78.79	1.55



LIERGERND

= CONCRETE BARRIER CURB — LIMIT OF CONSTRUCTION CONCRETE WALKWAY — · — · — · — DRAINAGE SWALE PROPOSED ASPHALT — · · — DRAINAGE DITCH PROPOSED LANDSCAPED AREA STORM SEWER MANHOLE SURFACE ELEVATION CATCHBASIN

CBMH# CATCHBASIN MANHOLE SWALE ELEVATION TOP OF WALL ELEVATION BOTTOM OF WALL ELEVATION OVERLAND FLOW ROUTE MH#A SANITARY SEWER MANHOLE FIRE HYDRANT → SILT FENCE BARRIER STRAW BALE CHECK DAM MUD MAT WATER METER PROPOSED RETAINING WALL REMOTE WATER METER

---- 100-YEAR PONDING LEVEL **ROOF DRAIN** ---- 5-YEAR PONDING LEVEL SEDIMENT CONTROL DEVICE

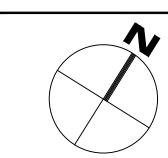
NOT FOR CONSTRUCTION

	7	
4	REVISED PER CITY COMMENTS	AUG. 24, 202
3	ISSUED FOR SITE PLAN CONTROL	NOV. 08, 202
2	ISSUED FOR REVIEW	SEP 10, 2021
1	ISSUED FOR REVIEW	MAY 28, 202
No.	Revisions	Date

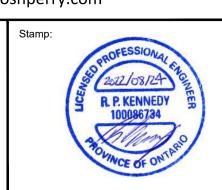
Do not scale drawings before proceeding with the work

McINTOSH PERRY

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



Check and verify all dimensions



DOMENIC SANTAGUIDA

APARTMENT BUILDING

REMOVALS, SITE SERVICING, LOT GRADING, DRAINAGE, SEDIMENT AND EROSION CONTROL PLAN

1:200 CP-20-0079-01 rawing Number: