

- 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
- 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 OF OTTAWA.
- EXCAVATE AND DISPOSE OF ALL EXCESS EXCAVATED MATERIAL, SUCH AS ASPHALT, CURBING AND DEBRIS, OFF SITE AS
- 8. TOPSOIL 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
- 11. DO NOT ALTER GRADING OF THE SITE WITHOUT PRIOR APPROVAL OF THE CITY OF OTTAWA.

DIRECTED BY THE ENGINEER AND THE CITY OF OTTAWA.

1+027.23 89.53 87.13 2.40

1+028.44 89.85 87.45 2.40

SEPARATION

0.92

0.50*

0.50*

0.79

0.72

CROSSING CONFLICT TABLE

DESCRIPTION

375mmØ STORM SEWER INV. 87.71

300mmØ SANITARY SEWER OBV. 86.92 375mmØ STORM SEWER INV. 87.75

.50mmØ SANITARY SERVICE INV. 87.75

.50mmØ SANITARY SERVICE INV. 87.95

200mmØ WATER SERVICE TOP 87.16

* SEWER CROSSINGS OVER WATERMAIN REQUIRE A MINIMUM 0.50m

45° BEND

CLEARANCE AS PER CITY STD W25

LOCATION

COVER CITY STD S19

FRAME CITY STD S19

STRUC OPSD 705.010

COVER CITY STD S19

FRAME CITY STD S19

STRUC OPSD 705.010

COVER CITY STD S28.1

FRAME CITY STD S25

STRUC OPSD 701.010

COVER CITY STD S24.1

FRAME CITY STD S25

STRUC OPSD 701.010

FRAME CITY STD S25

STRUC OPSD 701.010

PMSU20_15_4m

1.07

CB2

CB5

OGS

89.54

NE88.219

SE87.980

NE88.160

SE87.822

NE87.860

SE87.783

SW88.198

NW87.773

- 12. ALL ROADWAY, PARKING LOT, AND GRADING WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH CITY OF OTTAWA DETAILS AND SPECIFICATIONS. THE CONTRACTOR IS TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING.
- 17. ALL PROPOSED CURB SHALL BE CONCRETE BARRIER CURB UNLESS SPECIFIED.
- 18. THIS PLAN MUST BE READ IN CONJUNCTION WITH GEOTECHNICAL REPORT BY McINTOSH PERRY REPORT
- #CP-18-0275 AND THE SERVICING & STORMWATER MANAGEMENT REPORT BY McINTOSH PERRY REPORT
- 19. THE FOLLOWING PAVEMENT STRUCTURE HAS BEEN RECOMMENDED BY THE GEOTECHNICAL CONSULTANT; HEAVY DUTY: CAR PARK:

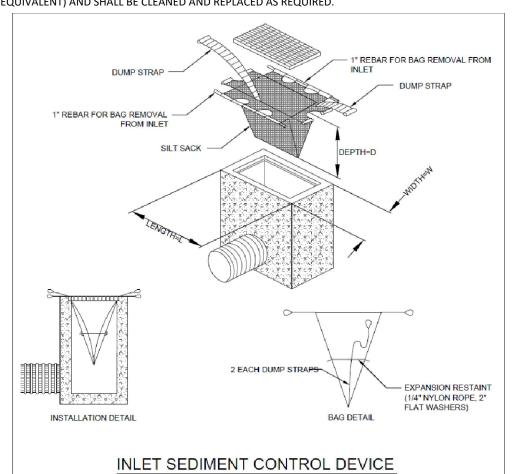
50mm SUPERPAVE 19.0 150mm GRANULAR 'A 150mm GRANULAR 'A' 350mm GRANULAR 'B' TYPE II 450mm GRANULAR 'B' TYPE II

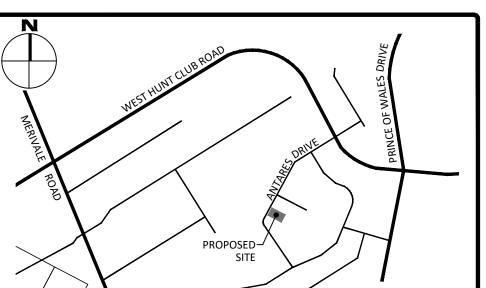
SEWER NOTES

- CONSTRUCT ALL SEWERS AND APPURTENANCES TO CITY OF OTTAWA STANDARDS
- 2. SEWER TRENCHING AND BEDDING SHALL CONFORM TO OPSD 802.010 AND 802.013 UNLESS NOTED OTHERWISE 3. BEDDING SHALL BE A MINIMUM 150mm OF GRANULAR "A", COMPACTED TO MINIMUM 95% STANDARD
- PROCTOR DRY DENSITY. CLEAR STONE BEDDING SHALL NOT BE PERMITTED.
- 4. SUB-BEDDING, IF REQUIRED SHALL BE AS PER THE DIRECTION OF A GEOTECHNICAL ENGINEER. 5. BACKFILL TO AT LEAST 300mm ABOVE TOP OF PIPE WITH GRANULAR "A" OR SAND.
- 6. TO MINIMIZE DIFFERENTIAL FROST HEAVING, TRENCH BACKFILL (FROM PAVEMENT SUBGRADE TO 2.0m BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL CONDITIONS.
- Y. SEWERS AND CONNECTIONS 150mm DIAMETER AND SMALLER TO BE PVC SDR 28 OR APPROVED EQUIVALENT.
- SEWERS AND CONNECTIONS 200mm DIAMETER AND LARGER TO BE PVC SDR 35 OR APPROVED EQUIVALENT. INSULATE ALL SEWERS AND/OR SERVICES THAT HAVE LESS THAN 1.8m OF COVER WITH THERMAL INSULATION
- 9. SUPPLY AND INSTALL ALL PIPING AND APPURTENANCES AS SHOWN AND DETAILED TO WITHIN 1.0m OF
- 10. CONTRACTOR TO TELEVISE (CCTV) ALL PROPOSED SEWERS ONSITE, 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. 11. DYE TESTING IS TO BE COMPLETED ON SANITARY SERVICE TO CONFIRM PROPER CONNECTION TO THE SANITARY
- 12. ALL CATCHBASIN AND CATHCBASIN MANHOLE LEADS ARE TO BE MINIMUM 200mmØ WITH MINIMUM 1.0%
- SLOPE UNLESS OTHERWISE NOTED. 13. ALL CATCHBASINS EXCLUDING LANDSCAPE CATCHBASINS ARE TO HAVE 150 mm PERFORATED PIPE FOR 3.0m OI

- 1. CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY OF OTTAWA STANDARDS.
- 2. INDUSTRIAL/COMMERCIAL SERVICE CONNECTIONS TO BE 50mm COPPER PIPING AND SHALL CONFORM TO ASTM
- 3. WATERMAINS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 2.4m. OTHERWISE THERMAL INSULATION IS REQUIRED PER CITY OF OTTAWA STANDARD 'W22'.
- 4. IF THE WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION
- 5. USE APPROVED SADDLE CONNECTION WITH MAIN (CORPORATION) STOP PER CITY OF OTTAWA STANDARD
- 6. CONNECTION TO EXISTING BY CITY OF OTTAWA FORCES. EXCAVATION, BACKFILLING AND REINSTATEMENT IS TO BE COMPLETED BY THE CONTRACTOR.
- 7. THERMAL INSULATION OF WATERMAINS AT OPEN STRUCTURES PER CITY OF OTTAWA STANDARD 'W23'.
- 9. SWABING, CHLORINATION AND CONTINUITY TESTING FOR PROPOSED WATER SERVICES IS TO FOLLOW CITY OF OTTAWA SPECIAL PROVISIONS #SP-4491 & SP-4494.
- **EROSION AND SEDIMENT CONTROL** THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE
- IMPLEMENTED DURING CONSTRUCTION ON ALL PROPOSED ROAD CATCHBASINS, REARYARD CATCHBASINS AND CATCHBASIN MANHOLES AND OTHER SEDIMENT TRAPS. NO RECYCLED GEOSOCK MATERIAL SHALL BE PERMITTE
- 3. FOR SILT FENCE BARRIER, USE OPSD 219.110.
- 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. 4.1. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 14TH DAY AFTER CONSTRUCTION ACTIVITY
- TEMPORARILY OR PERMANENTLY CEASE IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALI WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHE ACTIVITIES CEASED, (E.G. THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY CEASEI LESS THAN 21 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION C
- 5. SEDIMENT THAT IS ACCUMULATED BY THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL 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 CONSTRUCTED AND BE ACCORDING TO THE
- FOR LIGHT-DUTY SEDIMENT BARRIERS, ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE IT REACHES LESSER OF THE FOLLOWING A DEPTH OF ONE-HALF THE EFFECTIVE HEIGHT OF THE CONTROL MEASURE.
- A DEPTH OF 300 MM IMMEDIATELY UPSTREAM OF THE CONTROL MEASURE FOR ALL CONTROL MEASURES, ACCUMULATED SEDIMENT SHALL BE REMOVED AS NECESSARY TO PERFORI ACCUMULATED SEDIMENT SHALL BE REMOVED PRIOR TO THE REMOVAL OF THE CONTROL MEASURE.
- ACCUMULATED SEDIMENT IS TO BE REMOVED AND DISPOSED OF AS PER OPSS 180. 6. ALL TEMPORARY EROSION 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
- 7. DUST CONTROL MEASURES SHOULD BE CONSIDERED PRIOR TO CLEARING AND GRADING. THE USE OF WATER, CALCIUM CHLORIDE FLAKES/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 RAINSTORM. 8. ALL 'GREEN AREAS' TO BE TREATED WITH 150mm TOPSOIL AND SOD AS SOON AS FEASIBLE, AS PER OPSS 570.
- 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
- 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, TH CONTRACTOR SHALL RELEASE ANY STRANDED FISH TO THE OPEN PORTION OF THE WATERCOURSE WITHOUT
- 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 OPS







OCATION PLĀN EGEND

— · — · — CENTRELINE OF SWALE **CURB DEPRESION HEAVY DUTY ASPHALT** CONCRETE SIDEWALK

EXISTING ELEVATION ////// PAVING STONE SWALE ELEVATION T/w100.50 TOP OF WALL ELEVATION B/w90.50 BOTTOM OF WALL ELEVATION MH STORM MANHOLE EMERGENCY OVERLAND — CATCHBASIN OR DITCH INLET FLOW ROUTE SILT FENCE BARRIER LANDSCAPE CATCHBASIN

UNLESS SPECIFIED

PROPOSED ELEVATION

(AS PER OPSD 219.130)

STRAW BALE CHECK DAM

(AS PER OPSD 219.180)

 SANITARY MANHOLE PERFORATED PIPE WATER VAVLE/CHAMBER

SEDIMENT CONTROL DEVICE BUILDING ENTRANCE OVERHEAD DOOR REMOTE WATER METER

FIRE HYDRANT CROSSING CONFLICT WATER METER

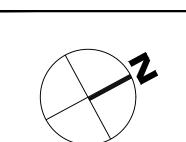
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OF L BE ROL DF	4	REVISED PER CITY COMMENTS	NOV. 14,2019
	3	REVISED PER CITY COMMENTS	AUG. 07, 2019
	2	REISSUED FOR SITE PLAN CONTROL	MAY 10, 2019
	1	ISSUED FOR SITE PLAN CONTROL	MAR. 22, 2019
RM	No.	Revisions	Date
	Check	and verify all dimensions proceeding with the work Do not	scale drawings

before proceeding with the work SCALE 1:250

McINTOSH PERRY

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ROBERTSON MARTIN ARCHITECTS 216 PRETORIA AVENUE OTTAWA, ON K1S 1X2

RED PINE WAREHOUSE **31 ANTARES DRIVE**

SITE SERVICING, SEDIMENT & EROSION CONTROL PLAN

1:250 CP-18-0275 P.G.K. Checked By Orawing Number R.P.K. Designed By: