



# **IBI GROUP**

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	SITE	ROCAMINOS CLARIDGE LANDS
	BLOCK 257	FINDLAY CREEK DRIVE
BANK STREET		URBANDALE LANDS
KEYPLAN		COWAN'S GROVE

# CLARIDGE HOMES LILYTHORNE ZENS 2

CONTRACT NO. 134437

Sheet List Table

Sheet Number

C-500

Sheet Title

COVER

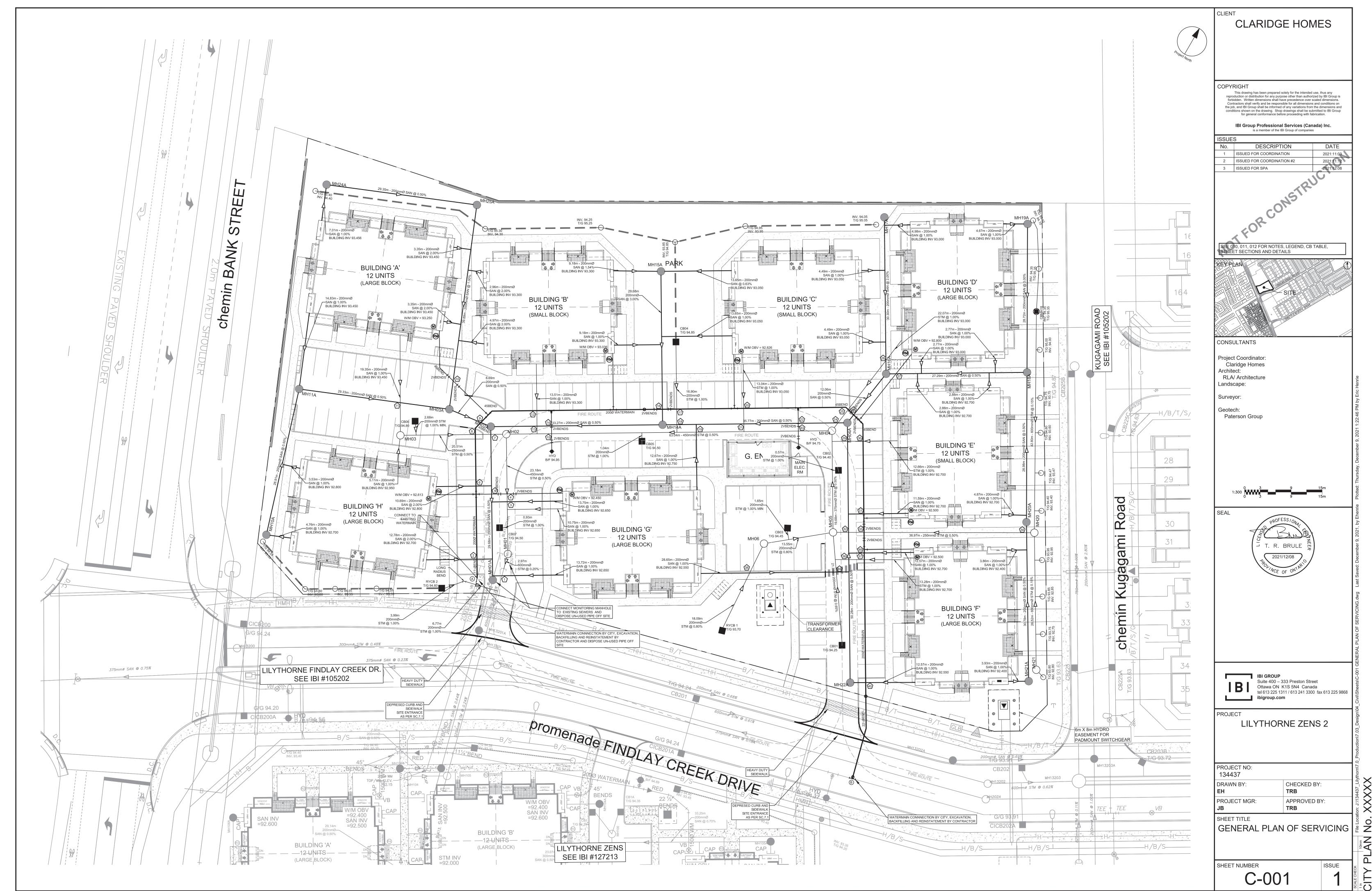
GENERAL PLAN OF SERVICING
DETAILS AND NOTES

STORM DRAINAGE AREA PLAN

2021-12-0

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# **DRAWING NOTES**

## 1.0 GENERAL

1.1 CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. 1.2 DO NOT SCALE DRAWINGS.

1.3 CONTRACTOR TO REPORT ALL DISCOVERIES OF ERRORS, OMISSIONS OR DISCREPANCIES TO THE ARCHITECT OR DESIGN ENGINEER AS APPLICABLE.

1.4 USE ONLY THE LATEST REVISED DRAWINGS OR THOSE THAT ARE MARKED "ISSUED FOR CONSTRUCTION". 1.5 ALL CONSTRUCTION SHALL COMPLY WITH CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. 1.6 THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND SPECIFICATIONS. 1.7 FOR LEGAL SURVEY INFORMATION REFER TO REGISTERED PLAN.

1.8 REFER TO SITE PLAN BY RLA ARCHITETCS INC.

1.9 CONTRACTOR TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES AS IDENTIFIED IN THE EROSION AND SEDIMENT CONTROL PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA, PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING, GRADING, REMOVAL OF VEGETATION, ETC.). DURING ALI PHASES OF THE SITE PREPARATION AND CONSTRUCTION THE MEASURES ARE TO BE MAINTAINED TO THE SATISFACTION OF THE ENGINEER AND CITY OF OTTAWA IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL. SHOULD ANY ADDITIONAL MEASURES BE REQUIRED TO ADDRESS FIELD CONDITIONS THEY SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER OR THE CITY OF OTTAWA. SUCH ADDITIONAL MEASURES MAY INCLUDE BUT NOT BE LIMITED TO INSTALLATION OF SEDIMENT CAPTURE FILTER SOCKS WITHIN MANHOLES AND CATCHBASINS TO PREVENT SEDIMENT FROM ENTERING THE STRUCTURE AND INSTALLATION AND MAINTENANCE OF A LIGHT DUTY SILT FENCE BARRIER AS REQUIRED.

1.10 ALL IRON WORK ELEVATIONS SHOWN ARE APPROXIMATE AND ARE SUBJECT TO MINOR ADJUSTMENTS AS 1.11 ALL CONCRETE CURBS AND SIDEWALKS TO CONFORM TO O.P.S. AND CONSTRUCTED TO CITY STANDARDS.

ALL ONSITE CURBS TO BE BARRIER TYPE, WITH DEPRESSIONS AS NOTED. 1.12 ALL CONCRETE SHALL BE "NORMAL PORTLAND CEMENT" IN ACCORDANCE WITH O.P.S.S. 1350 AND SHALL ACHIEVE A MINIMUM STRENGTH OF 30MPa AT 28 DAYS.

1.13 ALL CONSTRUCTION TRAFFIC TO ACCESS SITE FROM FINDLAY CREEK DRIVE. 1.14 FOR GEOTECHNICAL REPORT SEE GEOTECHNICAL INVESTIGATION PROPOSED RESIDENTIAL

DEVELOPMENT - KELLAM LANDS, OTTAWA, ON. REPORT No. 12-1121-0286 BY GOLDER ASSOCIATES. 1.15 CONTRACTOR TO PROTECT EXISTING INFRASTRUCTURE AND PROPERTY SUCH AS TREES, PARKING

METERS, SIDEWALKS, CURBS, ASPHALT, AND STREET SIGNS FROM DAMAGE DURING CONSTRUCTION. ONTRACTOR TO PAY THE COST TO REINSTATE OR REPLACE ANY DAMAGED INFRASTRUCTURE OR PROPERTY TO THE SATISFACTION OF THE CITY.

1.16 THE POSITION OF POLE LINES, CONDUITS, WATERMAIN, SEWERS, AND OTHER UNDERGROUND AND ABOVEGROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS. AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK THE CONTRACTOR SHALL INFORM ITSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, SHALL PROTECT ALL UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM

1.17 CONTRACTOR TO SUPPLY SUITABLE FILL MATERIAL WHERE REQUIRED TO ROUGH GRADE THE SITE. ALL IMPORTED FILL MATERIAL TO BE CERTIFIED AS ACCEPTABLE BY THE GEOTECHNICAL ENGINEER.

1.18 CONTRACTOR TO HAUL EXCESS MATERIAL OFFSITE AS NECESSARY TO GRADE SITE TO MEET THE PROPOSED GRADES, ALL EXCESS MATERIAL TO BE HAULED OFFSITE AND DISPOSED OF AT AN APPROVED DUMP SITE. SHOULD THE CONTRACTOR DISCOVER ANY HAZARDOUS MATERIAL, CONTRACTOR IS TO NOTIFY ENGINEER. ENGINEER TO DETERMINE APPROPRIATE DISPOSAL METHOD/LOCATION.

1.19 FILL MATERIAL WITHIN THE PARKING LOT AND BUILDING PAD AREAS, AND SUPPORTING BUILDING FOUNDATIONS SHALL BE COMPACTED TO 98% STANDARD MODIFIED PROCTOR DENSITY AND TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.

1.22 UTILITY DUCTS TO BE INSTALLED PRIOR TO ROAD BASE CONSTRUCTION.

1.20 ALL COMPACTION METHODS TO BE PERFORMED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER TO INCLUDE BUT NOT BE LIMITED TO THE THICKNESS OF LIFTS, AND COMPACTION EQUIPMENT USED. 1.21 ALL DISTURBED BOULEVARDS TO BE REINSTATED WITH SOD ON 100mm TOPSOIL.

1.23 CLAY DIKES TO BE INSTALLED WHERE INDICATED ON THE DRAWINGS OR AS APPROVED AND DIRECTED BY THE GEOTECHNICAL ENGINEER ALL IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. GRANULAR B PLACEMENT 1.24 BACKWATER VALES, PER CITY STANDARDS S14, S14.1 AND S14.2 RE TO BE INSTALLED FOR ALL STORM AND

### 2.0 SANITARY

SANITARY SERVICE CONNECTIONS.

2.1 ALL SANITARY SEWER MAINS TO BE CSA CERTIFIED. BELL AND SPIGOT TYPE. ONLY FACTORY FITTINGS TO BE USED. SEWER TO BE INSTALLED AS PER OSPD 1005.01. SANITARY SEWER MATERIALS TO BE: 250mmØ AND SMALLER - PVC DR 35

2.2 ALL SANITARY MAINTENANCE HOLES TO BE 1.2m DIAMETER AS PER CITY OF OTTAWA STANDARDS COMPLETE WITH BENCHING, RUNGS, FRAME AND COVER, DROP PIPES AND LANDINGS WHERE NEEDED. 2.3 SANITARY MANHOLE COVERS TO BE CITY OF OTTAWA STD. S25 (MOD. OPSD. 401.020). SANITARY MANHOLE COVER TO BE CLOSED COVER TYPE, AS PER CITY STANDARD S24.

2.4 SANITARY SEWER LEAKAGE TEST AND CCTV INSPECTION SHALL BE COMPLETED AS PER CITY SPECIFICATIONS PRIOR TO INSTALLATION OF BASE COURSE ASPHALT 2.5 ANY SANITARY SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF

OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER. 2.6 CONNECTION TO THE EXISTING SANITARY SEWER TO BE INCLUDED IN THE COST FOR SANITARY SEWER INSTALLATION. THIS INCLUDES REINSTATEMENT OF ROAD CUTS TO CITY STANDARDS.

3.1 ALL STORM SEWERS TO BE CSA CERTIFIED, BELL AND SPIGOT TYPE. ALL STORM SEWERS TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. ONLY FACTORY FITTINGS TO BE USED. STORM SEWER MATERIALS TO

BE: 375mmØ AND SMALLER - PVC DR 35 450mmØ AND LARGER - 100-D REINFORCED CONCRETE. UNLESS NOTED OTHERWISE 3.2 ALL STORM MAINTENANCE HOLES TO BE SIZED IN ACCORDANCE WITH THE PLANS AND AS PER CITY OF

OTTAWA STANDARDS COMPLETE WITH BENCHING. RUNGS, AND FRAME AND COVER.

3.3 STORM MH COVERS TO BE OPEN TYPE AS PER CITY STANDARD \$24. FRAMES TO BE PER CITY OF OTTAWA STD. S25. CONTRACTOR TO INSTALL FILTER FABRIC UNDER STORM MH COVER UNTIL SODDING IS COMPLETE. 3.4 STORM MAINTENANCE HOLES TO BE OPSD, SIZE AS SPECIFIED, TAPER TOP.

3.5 ALL CATCH BASINS TO BE AS PER OPSD 705.010, FRAME & FISH TYPE GRATE AS PER CITY OF OTTAWA STD. 3.6 3m 150mm DIAMETER SOCK-WRAPPED PERFORATED PVC SUBDRAINS TO BE INSTALLED ALL CB'S. TO EXTEND PARALLEL TO CURB IN CBS ADJACENT TO CURB AND IN 4 DIRECTIONS FOR CBS IN CENTER OF

3.7 ANY STORM SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER

3.8 CONNECTION TO THE EXISTING STORM SEWER TO BE INCLUDED IN THE COST FOR STORM SEWER INSTALLATION, THIS INCLUDES REINSTATEMENT OF ROAD CUT TO CITY STANDARDS. 3.9 CONTRACTOR TO PROVIDE IPEX-TEMPEST MHF ICD'S SHOP DRAWINGS, OR EQUIVALENT, FOR ENGINEERS REVIEW PRIOR TO ORDERING ICD'S.

PARKING LOT. SUBDRAINS TO DISCHARGE TO CB'S.

4.1 ALL WATERMAINS TO BE PVC DR 18, WITH MINIMUM COVER OF 2.4m AND INSTALLED PER CITY OF OTTAWA STANDARDS. ALL DOMESTIC WATER SERVICES ARE TO BE 200mmØ.

4.2 THRUST BLOCKS TO BE INSTALLED AT ALL BENDS, TEES, AND CAPS ALL AS PER OPSD 1103.01 AND 1103.02. 4.3 CONTRACTOR TO CONDUCT PRESSURE AND LEAKAGE TESTING OF ALL WATERMAINS AND DISINFECT AND CHLORINATE ALL WATERMAINS TO THE SATISFACTION OF M.O.E. AND THE CITY OF OTTAWA.

STOP AS PER CITY OF OTTAWA STANDARDS. 4.5 ALL COMPONENTS OF THE WATER DISTRIBUTION SYSTEM SHALL BE CATHODICALLY PROTECTED AS PER CITY OF OTTAWA STANDARDS.

4.4 TRACER WIRE TO BE INSTALLED ALONG THE FULL LENGTH OF WATERMAIN AND ATTACHED TO EACH MAIN

4.6 ALL VALVES & VALVE BOXES AND CHAMBERS, HYDRANTS, AND HYDRANT VALVES AND ASSEMBLIES SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARDS.

4.7 ANY WATERMAIN WITH LESS THAN 2.4m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER. 4.8 CONTRACTOR IS RESPONSIBLE FOR ACQUIRING THE WATER PERMIT FROM THE CITY OF OTTAWA AND PAYMENT OF ANY FEES ASSOCIATED WITH SECURING THE WATER PERMIT. OWNER IS RESPONSIBLE FOR

REIMBURSING THE CONTRACTOR FOR THE ACTUAL COST OF ACQUIRING THE WATER PERMIT.

4.9 CONNECTION TO EXISTING WATERMAIN TO BE INCLUDED IN THE COST FOR THE WATERMAIN INSTALLATION. THIS COST INCLUDES REINSTATEMENT OF ROAD CUTS TO CITY STANDARDS. 4.10 ALL WATERMAIN CROSSINGS TO BE COMPLETED AS PER CITY OF OTTAWA STANDARDS W25 AND W25.2

5.0 PARKING LOT AND WORK IN PUBLIC RIGHTS OF WAY

GRANULAR A PLACEMENT.

5.1 CONTRACTOR TO REINSTATE ROAD CUTS PER CITY OF OTTAWA STANDARD R-10.

5.2 THE CONTRACTOR SHALL PREPARE A TRAFFIC MANAGEMENT PLAN FOR REVIEW AND APPROVAL BY THE CITY OF OTTAWA. CONTRACTOR TO MAINTAIN TRAFFIC FLOW DURING THE ENTIRE CONSTRUCTION PERIOD. MAINTENANCE OF ROAD CUTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PROVISION OF FLAGMEN, DETOURS AS NECESSARY, BARRICADES AND SIGNS TO THE FULL SATISFACTION OF THE ENGINEER AND ROAD AUTHORITY SHALL BE THE CONTRACTOR'S RESPONSIBILITY

5.3 CONTRACTOR TO PREPARE SUBGRADE, INCLUDING PROOFROLLING, TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER PRIOR TO THE COMMENCEMENT OF PLACEMENT OF GRANULAR B MATERIAL

5.4 FILL TO BE PLACED AND COMPACTED PER THE GEOTECHNICAL REPORT REQUIREMENTS. 5.5 CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR B MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOETCHNICAL ENGINEER. CONTRACTOR TO PROVIDE ENGINEER WITH SAMPLES OF GRANULAR B MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL ENGINEER THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.

5.6 GRANULAR A MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL ENGINEER OF 5.7 ASPHALT MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL ENGINEER OF

5.8 CONTRACTOR TO SUPPLY, PLACE AND COMPACT ASPHALT MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. CONTRACTOR TO PROVIDE ENGINEER WITH SAMPLES OF ASPHALT MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL ENGINEER THAT THE MATERIAL MEETS THE REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.

5.9 CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING LINE AND GRADE IN ACCORDANCE WITH THE PLANS,

AND FOR PROVIDING THE ENGINEER WITH VERIFICATION PRIOR TO PLACEMENT 5.10 DITCHES DISTURBED DURING CULVERT INSTALLATION AND GRADING OPERATIONS ARE TO BE REINSTATED TO THEIR ORIGINAL CONDITION AND FLOWLINE GRADES. 5.11 EXISTING EAST SIDE ROAD DITCH ALONG PALLADIUM DRIVE TO BE REALIGNED AS PER THE GRADING PLAN. ADJACENT AREAS BETWEEN ROAD SIDE DITCH AND PARKING LOT TO BE RE GRADED AS PER THE GRADING

PLAN. ALL RE GRADED AREAS IN EXISTING PUBLIC RIGHTS OF WAY AND ANY OTHER DISTURBED AREAS IN

EXISTING PUBLIC RIGHTS OF WAY ARE TO BE FINISHED WITH SOD ON 100mm TOPSOIL. 5.12 PAVEMENT STRUCTURE (MATERIAL TYPES AND THICKNESSES) FOR HEAVY DUTY AND LIGHT DUTY AREAS TO BE AS SPECIFIED IN THE GEOTECHNICAL REPORT AND SHOWN ON THE PLANS.

⚠         200mmØ SAN 0.542m CLEARANCE OVER 600mmØ STM           ②         200mmØ SAN 0.868m CLEARANCE OVER 200mmØ WTR           ③         200mmØ SAN 0.389m CLEARANCE OVER 450mmØ STM           ④         200mmØ WTR 0.250m CLEARANCE OVER 450mmØ STM           ⑤         200mmØ WTR 0.827m CLEARANCE OVER 200mmØ SAN           ⑥         200mmØ SAN 0.319m CLEARANCE OVER 200mmØ SAN           ⑥         250mmØ STM 1.402m CLEARANCE OVER 200mmØ SAN           ⑥         250mmØ STM 0.318m CLEARANCE OVER 200mmØ SAN           ⑥         200mmØ SAN 0.855m CLEARANCE OVER 200mmØ SAN           ⑥         200mmØ SAN 0.855m CLEARANCE OVER 200mmØ SAN           ⑩         200mmØ STM 1.840m CLEARANCE OVER 200mmØ SAN           ⑩         200mmØ STM 1.730m CLEARANCE OVER 200mmØ SAN           ⑩         200mmØ STM 1.730m CLEARANCE OVER 200mmØ SAN           ⑩         200mmØ WTR 0.790m CLEARANCE OVER 200mmØ SAN           ⑩         200mmØ WTR 0.790m CLEARANCE OVER 200mmØ SAN           ⑩         200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN           ⑩         200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN           ⑩         200mmØ STM 2.593m CLEARANCE OVER 200mmØ SAN           ⑩         200mmØ STM 0.366m CLEARANCE OVER 200mmØ SAN           ⑩         200mmØ STM 0.635m CLEARANCE OVER 200mmØ SAN           ⑩         200mmØ STM 0.636m CLEAR		CROSSING SCHEDULE
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② 250mmØ STM 0.318m CLEARANCE OVER 200mmØ WTR ③ 200mmØ SAN 0.855m CLEARANCE OVER 200mmØ SAN  ② 200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN  ② 200mmØ STM 1.840m CLEARANCE OVER 200mmØ SAN  ② 200mmØ STM 1.840m CLEARANCE OVER 200mmØ SAN  ② 200mmØ STM 1.730m CLEARANCE OVER 200mmØ SAN  ③ 200mmØ STM 1.730m CLEARANCE OVER 200mmØ SAN  ③ 200mmØ WTR 0.790m CLEARANCE OVER 200mmØ SAN  ③ 200mmØ WTR 0.790m CLEARANCE OVER 200mmØ SAN  ⑤ 200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN  ⑤ 200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN  ⑥ 200mmØ STM 2.593m CLEARANCE OVER 200mmØ WTR  ⑥ 200mmØ STM 3.287m CLEARANCE OVER 200mmØ SAN  ⑥ 200mmØ STM 3.287m CLEARANCE OVER 200mmØ STM  ② 200mmØ STM 0.635m CLEARANCE OVER 200mmØ WTR  ② 200mmØ STM 1.257m CLEARANCE OVER 200mmØ SAN  ② 200mmØ WTR 0.356m CLEARANCE OVER 200mmØ SAN  ② 200mmØ WTR 0.366m CLEARANCE OVER 200mmØ SAN  ② 200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN  ② 200mmØ STM 1.042m CLEARANCE OVER 200mmØ SAN  ② 200mmØ STM 0.614m CLEARANCE OVER 200mmØ SAN  ② 200mmØ STM 0.541m CLEARANCE OVER 200mmØ SAN  ② 200mmØ STM 0.393m CLEARANCE OVER 200mmØ SAN  ② 200mmØ STM 0.303m CLEARANCE OVER 200mmØ SAN  ② 200mmØ STM 0.400m CLEAR	6	200mmØ SAN 0.319m CLEARANCE OVER 200mmØ WTR
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② 200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN ② 200mmØ STM 1.840m CLEARANCE OVER 200mmØ SAN ② 200mmØ STM 1.770m CLEARANCE OVER 200mmØ WTR ③ 200mmØ STM 1.730m CLEARANCE OVER 200mmØ SAN ② 200mmØ WTR 0.790m CLEARANCE OVER 200mmØ SAN ③ 200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN ⑤ 200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN ⑥ 200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN ⑥ 200mmØ STM 2.593m CLEARANCE OVER 200mmØ WTR ② 200mmØ STM 3.287m CLEARANCE OVER 200mmØ SAN ⑥ 200mmØ STM 3.287m CLEARANCE OVER 200mmØ STM ② 200mmØ STM 0.635m CLEARANCE OVER 200mmØ WTR ② 200mmØ STM 0.635m CLEARANCE OVER 200mmØ WTR ② 200mmØ STM 1.257m CLEARANCE OVER 200mmØ SAN ② 200mmØ STM 1.257m CLEARANCE OVER 200mmØ SAN ② 200mmØ STM 1.042m CLEARANCE OVER 200mmØ SAN ② 200mmØ STM 0.614m CLEARANCE OVER 200mmØ WTR ② 200mmØ STM 0.614m CLEARANCE OVER 200mmØ WTR ② 200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN ② 200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN ② 200mmØ STM 0.614m CLEARANCE OVER 200mmØ SAN ② 200mmØ STM 0.541m CLEARANCE OVER 200mmØ SAN ② 200mmØ STM 0.541m CLEARANCE OVER 200mmØ SAN ② 200mmØ STM 0.403m CLEARANCE OVER 200mmØ SAN ② 200mmØ STM 0.225m CLEARANCE OVER 200mmØ SAN ② 200mmØ STM 0.393m CLEARANCE OVER 200mmØ SAN ③ 200mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN ④ 250mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN ④ 250mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN ④ 200mmØ STM 0.400m CLEARANCE OVER 200mmØ SAN ④ 200mmØ STM 0.400m CLEARANCE OVER 200mmØ SAN	<b>③</b>	250mmØ STM 0.318m CLEARANCE OVER 200mmØ WTR
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② 200mmØ STM 0.770m CLEARANCE OVER 200mmØ WTR ③ 200mmØ STM 1.730m CLEARANCE OVER 200mmØ SAN ② 200mmØ WTR 0.790m CLEARANCE OVER 200mmØ SAN ③ 200mmØ WTR 0.250m CLEARANCE OVER 200mmØ STM ④ 200mmØ WTR 0.250m CLEARANCE OVER 200mmØ STM ④ 200mmØ STM 2.593m CLEARANCE OVER 200mmØ WTR ② 200mmØ STM 3.287m CLEARANCE OVER 200mmØ SAN ④ 200mmØ STM 3.287m CLEARANCE OVER 200mmØ STM ② 200mmØ STM 0.635m CLEARANCE OVER 200mmØ STM ② 200mmØ STM 0.635m CLEARANCE OVER 200mmØ WTR ② 200mmØ STM 1.257m CLEARANCE OVER 200mmØ SAN ② 200mmØ WTR 0.366m CLEARANCE OVER 200mmØ SAN ② 200mmØ WTR 0.250m CLEARANCE OVER 200mmØ STM ② 200mmØ STM 1.042m CLEARANCE OVER 200mmØ STM ② 200mmØ STM 0.614m CLEARANCE OVER 200mmØ WTR ② 200mmØ STM 0.614m CLEARANCE OVER 200mmØ WTR ② 200mmØ STM 0.250m CLEARANCE OVER 200mmØ SAN ② 200mmØ STM 0.403m CLEARANCE OVER 200mmØ SAN ② 200mmØ STM 0.403m CLEARANCE OVER 200mmØ SAN ② 200mmØ STM 0.225m CLEARANCE OVER 200mmØ WTR ③ 200mmØ STM 0.225m CLEARANCE OVER 200mmØ WTR ③ 200mmØ STM 0.393m CLEARANCE OVER 200mmØ WTR ③ 200mmØ STM 0.393m CLEARANCE OVER 200mmØ WTR ④ 250mmØ STM 0.213m CLEARANCE OVER 200mmØ SAN ④ 200mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN ④ 200mmØ STM 0.400m CLEARANCE OVER 200mmØ SAN		200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN
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☑       200mmØ WTR 0.790m CLEARANCE OVER 200mmØ SAN         ⑤       200mmØ WTR 0.250m CLEARANCE OVER 450mmØ STM         ⑥       200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN         ⑥       200mmØ STM 2.593m CLEARANCE OVER 200mmØ WTR         ⑥       200mmØ STM 3.287m CLEARANCE OVER 200mmØ WTR         ⑥       200mmØ STM 3.287m CLEARANCE OVER 200mmØ SAN         ⑥       200mmØ STM 0.635m CLEARANCE OVER 450mmØ STM         ⑥       200mmØ STM 1.257m CLEARANCE OVER 200mmØ SAN         ②       200mmØ WTR 0.366m CLEARANCE OVER 200mmØ SAN         ②       200mmØ WTR 0.250m CLEARANCE OVER 200mmØ STM         ②       200mmØ STM 1.042m CLEARANCE OVER 200mmØ SAN         ⑥       200mmØ STM 0.614m CLEARANCE OVER 200mmØ SAN         ②       200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN         ②       200mmØ STM 0.403m CLEARANCE OVER 200mmØ SAN         ②       200mmØ STM 0.403m CLEARANCE OVER 200mmØ SAN         ③       200mmØ STM 0.393m CLEARANCE OVER 200mmØ SAN         ③       200mmØ STM 0.213m CLEARANCE OVER 200mmØ SAN         ③       200mmØ STM 0.213m CLEARANCE OVER 200mmØ SAN         ③       200mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN         ⑤       200mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN         ⑤       200mmØ STM 0.100m CLEARANCE OVER 200mmØ SAN         ⑥       20		200mmØ STM 0.770m CLEARANCE OVER 200mmØ WTR
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函         200mmØ STM 3.287m CLEARANCE OVER 200mmØ SAN           ②         200mmØ SAN 0.136m CLEARANCE OVER 450mmØ STM           ②         200mmØ STM 0.635m CLEARANCE OVER 200mmØ WTR           ②         200mmØ STM 1.257m CLEARANCE OVER 200mmØ SAN           ②         200mmØ WTR 0.366m CLEARANCE OVER 200mmØ SAN           ②         200mmØ WTR 0.250m CLEARANCE OVER 450mmØ STM           ②         200mmØ STM 1.042m CLEARANCE OVER 200mmØ SAN           ②         200mmØ STM 0.614m CLEARANCE OVER 200mmØ WTR           ②         200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN           ②         200mmØ STM 0.403m CLEARANCE OVER 200mmØ SAN           ②         200mmØ STM 0.403m CLEARANCE OVER 200mmØ SAN           ③         200mmØ STM 0.393m CLEARANCE OVER 200mmØ WTR           ③         200mmØ STM 0.393m CLEARANCE OVER 200mmØ WTR           ③         250mmØ STM 0.213m CLEARANCE OVER 200mmØ SAN           ③         200mmØ STM 0.213m CLEARANCE OVER 200mmØ SAN           ③         200mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN           ④         250mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN           ④         200mmØ STM 0.400m CLEARANCE OVER 200mmØ SAN           ④         200mmØ STM 0.400m CLEARANCE OVER 200mmØ SAN           ④         200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM           ④         200mmØ SAN 0.174m CLEAR		200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN
③         200mmØ SAN 0.136m CLEARANCE OVER 450mmØ STM           ②         200mmØ STM 0.635m CLEARANCE OVER 200mmØ WTR           ②         200mmØ STM 1.257m CLEARANCE OVER 200mmØ SAN           ②         200mmØ WTR 0.366m CLEARANCE OVER 200mmØ SAN           ②         200mmØ WTR 0.250m CLEARANCE OVER 450mmØ STM           ②         200mmØ STM 1.042m CLEARANCE OVER 200mmØ SAN           ②         200mmØ STM 0.614m CLEARANCE OVER 200mmØ WTR           ②         200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN           ②         200mmØ WTR 0.541m CLEARANCE OVER 200mmØ SAN           ②         200mmØ STM 0.403m CLEARANCE OVER 200mmØ SAN           ②         200mmØ STM 0.393m CLEARANCE OVER 200mmØ WTR           ③         200mmØ STM 0.393m CLEARANCE OVER 200mmØ WTR           ③         250mmØ STM 0.213m CLEARANCE OVER 200mmØ SAN           ③         250mmØ STM 0.213m CLEARANCE OVER 200mmØ SAN           ③         200mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN           ③         200mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN           ③         200mmØ STM 0.100m CLEARANCE OVER 200mmØ SAN           ④         200mmØ STM 0.400m CLEARANCE OVER 200mmØ SAN           ④         200mmØ STM 0.400m CLEARANCE OVER 200mmØ STM           ④         200mmØ SAN 0.174m CLEARANCE OVER 200mmØ SAN           ④         200mmØ SAN 0.161m CLEAR		200mmØ STM 2.593m CLEARANCE OVER 200mmØ WTR
200mmØ STM 0.635m CLEARANCE OVER 200mmØ WTR 21 200mmØ STM 1.257m CLEARANCE OVER 200mmØ SAN 22 200mmØ WTR 0.366m CLEARANCE OVER 200mmØ SAN 23 200mmØ WTR 0.250m CLEARANCE OVER 450mmØ STM 24 200mmØ STM 1.042m CLEARANCE OVER 200mmØ SAN 25 200mmØ STM 0.614m CLEARANCE OVER 200mmØ WTR 26 200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN 27 200mmØ WTR 0.541m CLEARANCE OVER 200mmØ SAN 28 200mmØ STM 0.403m CLEARANCE OVER 200mmØ SAN 29 200mmØ STM 0.225m CLEARANCE OVER 200mmØ SAN 20 200mmØ STM 0.393m CLEARANCE OVER 200mmØ SAN 20 200mmØ STM 0.393m CLEARANCE OVER 200mmØ WTR 31 200mmØ SAN 0.456m CLEARANCE OVER 200mmØ WTR 32 250mmØ STM 0.213m CLEARANCE OVER 200mmØ SAN 33 200mmØ STM 0.250m CLEARANCE OVER 200mmØ SAN 34 250mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN 35 200mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN 36 200mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN 36 200mmØ STM 0.100m CLEARANCE OVER 200mmØ SAN 36 200mmØ STM 0.100m CLEARANCE OVER 200mmØ SAN 37 200mmØ STM 0.400m CLEARANCE OVER 200mmØ STM 38 200mmØ STM 0.400m CLEARANCE OVER 200mmØ STM 39 200mmØ STM 0.161m CLEARANCE OVER 200mmØ STM 30 200mmØ STM 0.161m CLEARANCE OVER 200mmØ STM 30 200mmØ STM 0.161m CLEARANCE OVER 200mmØ STM 30 200mmØ STM 0.161m CLEARANCE OVER 200mmØ STM		200mmØ STM 3.287m CLEARANCE OVER 200mmØ SAN
200mmØ STM 1.257m CLEARANCE OVER 200mmØ SAN 200mmØ WTR 0.366m CLEARANCE OVER 200mmØ SAN 200mmØ WTR 0.250m CLEARANCE OVER 450mmØ STM 200mmØ STM 1.042m CLEARANCE OVER 200mmØ SAN 200mmØ STM 1.042m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.614m CLEARANCE OVER 200mmØ WTR 200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN 200mmØ WTR 0.541m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.403m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.225m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.393m CLEARANCE OVER 200mmØ WTR 30 200mmØ STM 0.393m CLEARANCE OVER 200mmØ WTR 31 200mmØ SAN 0.456m CLEARANCE OVER 200mmØ WTR 32 250mmØ STM 0.213m CLEARANCE OVER 200mmØ SAN 33 200mmØ STM 0.213m CLEARANCE OVER 200mmØ SAN 34 250mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN 35 200mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN 36 200mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN 36 200mmØ SAN 0.371m CLEARANCE OVER 200mmØ WTR 36 200mmØ STM 0.100m CLEARANCE OVER 200mmØ SAN 37 200mmØ STM 0.400m CLEARANCE OVER 200mmØ STM 38 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM 39 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM 30 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM 30 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM 30 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM		200mmØ SAN 0.136m CLEARANCE OVER 450mmØ STM
200mmØ WTR 0.366m CLEARANCE OVER 200mmØ SAN 200mmØ WTR 0.250m CLEARANCE OVER 450mmØ STM 200mmØ STM 1.042m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.614m CLEARANCE OVER 200mmØ WTR 200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN 200mmØ WTR 0.541m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.403m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.403m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.225m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.393m CLEARANCE OVER 200mmØ WTR 30 200mmØ SAN 0.456m CLEARANCE OVER 200mmØ WTR 31 200mmØ SAN 0.456m CLEARANCE OVER 200mmØ WTR 32 250mmØ STM 0.213m CLEARANCE OVER 200mmØ SAN 33 200mmØ STM 0.250m CLEARANCE OVER 200mmØ STM 34 250mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN 35 200mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN 36 200mmØ STM 0.100m CLEARANCE OVER 200mmØ WTR 36 200mmØ STM 0.100m CLEARANCE OVER 200mmØ SAN 37 200mmØ STM 0.400m CLEARANCE OVER 200mmØ WTR 38 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ WTR 39 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM 39 200mmØ STM 0.161m CLEARANCE OVER 200mmØ STM		200mmØ STM 0.635m CLEARANCE OVER 200mmØ WTR
200mmØ WTR 0.250m CLEARANCE OVER 450mmØ STM 200mmØ STM 1.042m CLEARANCE OVER 200mmØ SAN 250mmØ STM 0.614m CLEARANCE OVER 200mmØ WTR 200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN 270mmØ WTR 0.541m CLEARANCE OVER 200mmØ SAN 280 200mmØ STM 0.403m CLEARANCE OVER 200mmØ SAN 280 200mmØ STM 0.225m CLEARANCE OVER 200mmØ SAN 291 200mmØ STM 0.225m CLEARANCE OVER 200mmØ SAN 292 200mmØ STM 0.393m CLEARANCE OVER 200mmØ WTR 303 200mmØ STM 0.393m CLEARANCE OVER 200mmØ WTR 304 250mmØ SAN 0.456m CLEARANCE OVER 200mmØ SAN 305 200mmØ STM 0.213m CLEARANCE OVER 200mmØ SAN 306 200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN 307 200mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN 308 200mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN 309 200mmØ SAN 0.371m CLEARANCE OVER 200mmØ WTR 300 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ SAN 307 200mmØ STM 0.400m CLEARANCE OVER 200mmØ WTR 308 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM 309 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ SAN 309 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ SAN		200mmØ STM 1.257m CLEARANCE OVER 200mmØ SAN
200mmØ STM 1.042m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.614m CLEARANCE OVER 200mmØ WTR 200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN 200mmØ WTR 0.541m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.403m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.225m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.393m CLEARANCE OVER 200mmØ WTR 200mmØ STM 0.393m CLEARANCE OVER 200mmØ WTR 200mmØ SAN 0.456m CLEARANCE OVER 200mmØ WTR 250mmØ SAN 0.213m CLEARANCE OVER 200mmØ SAN 30 200mmØ STM 0.213m CLEARANCE OVER 200mmØ SAN 31 200mmØ STM 0.350m CLEARANCE OVER 200mmØ SAN 32 200mmØ STM 0.371m CLEARANCE OVER 200mmØ SAN 33 200mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN 34 250mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN 35 200mmØ SAN 0.371m CLEARANCE OVER 200mmØ WTR 36 200mmØ STM 0.400m CLEARANCE OVER 200mmØ WTR 32 200mmØ STM 0.400m CLEARANCE OVER 200mmØ STM 33 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM 34 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM 35 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM 36 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM	22	200mmØ WTR 0.366m CLEARANCE OVER 200mmØ SAN
200mmØ STM 0.614m CLEARANCE OVER 200mmØ WTR 200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN 200mmØ WTR 0.541m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.403m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.225m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.393m CLEARANCE OVER 200mmØ WTR 200mmØ SAN 0.456m CLEARANCE OVER 200mmØ WTR 200mmØ SAN 0.456m CLEARANCE OVER 200mmØ WTR 250mmØ STM 0.213m CLEARANCE OVER 200mmØ SAN 250mmØ STM 0.250m CLEARANCE OVER 200mmØ SAN 250mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN 250mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN 250mmØ STM 0.307m CLEARANCE OVER 200mmØ WTR 200mmØ SAN 0.371m CLEARANCE OVER 200mmØ WTR 300mmØ STM 0.100m CLEARANCE OVER 200mmØ SAN 301 200mmØ STM 0.400m CLEARANCE OVER 200mmØ WTR 302 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM 303 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM 304 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM 305 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM 306 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM		200mmØ WTR 0.250m CLEARANCE OVER 450mmØ STM
200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN 200mmØ WTR 0.541m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.403m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.225m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.393m CLEARANCE OVER 200mmØ WTR 200mmØ SAN 0.456m CLEARANCE OVER 200mmØ WTR 250mmØ STM 0.213m CLEARANCE OVER 200mmØ SAN 200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN 250mmØ WTR 0.250m CLEARANCE OVER 250mmØ STM 250mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN 250mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.100m CLEARANCE OVER 200mmØ WTR 200mmØ STM 0.100m CLEARANCE OVER 200mmØ SAN 30 200mmØ STM 0.100m CLEARANCE OVER 200mmØ WTR 30 200mmØ STM 0.100m CLEARANCE OVER 200mmØ SAN 30 200mmØ STM 0.100m CLEARANCE OVER 200mmØ SAN 31 200mmØ STM 0.100m CLEARANCE OVER 200mmØ STM 32 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM 33 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM		200mmØ STM 1.042m CLEARANCE OVER 200mmØ SAN
200mmØ WTR 0.541m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.403m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.225m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.393m CLEARANCE OVER 200mmØ WTR 200mmØ SAN 0.456m CLEARANCE OVER 200mmØ WTR 250mmØ SAN 0.456m CLEARANCE OVER 200mmØ WTR 250mmØ STM 0.213m CLEARANCE OVER 200mmØ SAN 200mmØ WTR 0.250m CLEARANCE OVER 250mmØ STM 250mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN 200mmØ SAN 0.371m CLEARANCE OVER 200mmØ WTR 200mmØ SAN 0.100m CLEARANCE OVER 200mmØ WTR 200mmØ STM 0.400m CLEARANCE OVER 200mmØ WTR 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ WTR 38 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM 39 200mmØ STM 0.161m CLEARANCE OVER 200mmØ SAN		200mmØ STM 0.614m CLEARANCE OVER 200mmØ WTR
200mmØ STM 0.403m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.225m CLEARANCE OVER 200mmØ SAN 30 200mmØ STM 0.393m CLEARANCE OVER 200mmØ WTR 31 200mmØ SAN 0.456m CLEARANCE OVER 200mmØ WTR 32 250mmØ STM 0.213m CLEARANCE OVER 200mmØ SAN 33 200mmØ WTR 0.250m CLEARANCE OVER 250mmØ STM 34 250mmØ STM 0.307m CLEARANCE OVER 250mmØ SAN 35 200mmØ SAN 0.371m CLEARANCE OVER 200mmØ WTR 36 200mmØ STM 0.100m CLEARANCE OVER 200mmØ WTR 36 200mmØ STM 0.400m CLEARANCE OVER 200mmØ WTR 37 200mmØ STM 0.400m CLEARANCE OVER 200mmØ WTR 38 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM 39 200mmØ STM 0.161m CLEARANCE OVER 200mmØ SAN 30 200mmØ STM 0.161m CLEARANCE OVER 200mmØ STM 30 200mmØ STM 0.161m CLEARANCE OVER 200mmØ SAN		200mmØ WTR 0.250m CLEARANCE OVER 200mmØ SAN
200mmØ STM 0.225m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.393m CLEARANCE OVER 200mmØ WTR 200mmØ SAN 0.456m CLEARANCE OVER 200mmØ WTR 250mmØ STM 0.213m CLEARANCE OVER 200mmØ SAN 250mmØ STM 0.250m CLEARANCE OVER 250mmØ STM 250mmØ STM 0.307m CLEARANCE OVER 250mmØ STM 250mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN 200mmØ SAN 0.371m CLEARANCE OVER 200mmØ WTR 200mmØ STM 0.100m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.400m CLEARANCE OVER 200mmØ WTR 200mmØ STM 0.400m CLEARANCE OVER 200mmØ WTR 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM 300mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM 300mmØ STM 0.161m CLEARANCE OVER 200mmØ SAN		200mmØ WTR 0.541m CLEARANCE OVER 200mmØ SAN
②①         200mmØ STM 0.393m CLEARANCE OVER 200mmØ WTR           ③①         200mmØ SAN 0.456m CLEARANCE OVER 200mmØ WTR           ③②         250mmØ STM 0.213m CLEARANCE OVER 200mmØ SAN           ③③         200mmØ WTR 0.250m CLEARANCE OVER 250mmØ STM           ④④         250mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN           ⑤⑤         200mmØ SAN 0.371m CLEARANCE OVER 200mmØ WTR           ⑥⑥         200mmØ STM 0.100m CLEARANCE OVER 200mmØ SAN           ⑥⑦         200mmØ STM 0.400m CLEARANCE OVER 200mmØ WTR           ⑥⑧         200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM           ⑥⑨         200mmØ STM 0.161m CLEARANCE OVER 200mmØ SAN		200mmØ STM 0.403m CLEARANCE OVER 200mmØ SAN
②1)         200mmØ SAN 0.456m CLEARANCE OVER 200mmØ WTR           ②2)         250mmØ STM 0.213m CLEARANCE OVER 200mmØ SAN           ③3)         200mmØ WTR 0.250m CLEARANCE OVER 250mmØ STM           ③4)         250mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN           ④5)         200mmØ SAN 0.371m CLEARANCE OVER 200mmØ WTR           ⑥6)         200mmØ STM 0.100m CLEARANCE OVER 200mmØ SAN           ⑥7)         200mmØ STM 0.400m CLEARANCE OVER 200mmØ WTR           ⑥8)         200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM           ⑥9)         200mmØ STM 0.161m CLEARANCE OVER 200mmØ SAN		200mmØ STM 0.225m CLEARANCE OVER 200mmØ SAN
250mmØ STM 0.213m CLEARANCE OVER 200mmØ SAN 200mmØ WTR 0.250m CLEARANCE OVER 250mmØ STM 250mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN 250mmØ SAN 0.371m CLEARANCE OVER 200mmØ WTR 200mmØ SAN 0.100m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.100m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.400m CLEARANCE OVER 200mmØ WTR 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ SAN 300mmØ STM 0.161m CLEARANCE OVER 200mmØ SAN		200mmØ STM 0.393m CLEARANCE OVER 200mmØ WTR
③3         200mmØ WTR 0.250m CLEARANCE OVER 250mmØ STM           ⑥4         250mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN           ⑥5         200mmØ SAN 0.371m CLEARANCE OVER 200mmØ WTR           ⑥6         200mmØ STM 0.100m CLEARANCE OVER 200mmØ SAN           ⑥7         200mmØ STM 0.400m CLEARANCE OVER 200mmØ WTR           ⑥8         200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM           ⑥9         200mmØ STM 0.161m CLEARANCE OVER 200mmØ SAN	31)	200mmØ SAN 0.456m CLEARANCE OVER 200mmØ WTR
250mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN 35 200mmØ SAN 0.371m CLEARANCE OVER 200mmØ WTR 36 200mmØ STM 0.100m CLEARANCE OVER 200mmØ SAN 37 200mmØ STM 0.400m CLEARANCE OVER 200mmØ WTR 38 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM 39 200mmØ STM 0.161m CLEARANCE OVER 200mmØ SAN	32	250mmØ STM 0.213m CLEARANCE OVER 200mmØ SAN
35         200mmØ SAN 0.371m CLEARANCE OVER 200mmØ WTR           36         200mmØ STM 0.100m CLEARANCE OVER 200mmØ SAN           37         200mmØ STM 0.400m CLEARANCE OVER 200mmØ WTR           38         200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM           39         200mmØ STM 0.161m CLEARANCE OVER 200mmØ SAN		200mmØ WTR 0.250m CLEARANCE OVER 250mmØ STM
200mmØ STM 0.100m CLEARANCE OVER 200mmØ SAN 200mmØ STM 0.400m CLEARANCE OVER 200mmØ WTR 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM 200mmØ STM 0.161m CLEARANCE OVER 200mmØ SAN		250mmØ STM 0.307m CLEARANCE OVER 200mmØ SAN
200mmØ STM 0.400m CLEARANCE OVER 200mmØ WTR 38 200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM 39 200mmØ STM 0.161m CLEARANCE OVER 200mmØ SAN		200mmØ SAN 0.371m CLEARANCE OVER 200mmØ WTR
200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM 200mmØ STM 0.161m CLEARANCE OVER 200mmØ SAN		200mmØ STM 0.100m CLEARANCE OVER 200mmØ SAN
② 200mmØ STM 0.161m CLEARANCE OVER 200mmØ SAN		200mmØ STM 0.400m CLEARANCE OVER 200mmØ WTR
		200mmØ SAN 0.174m CLEARANCE OVER 200mmØ STM
(4) 200mmØ SAN 0.417m CLEARANCE OVER 200mmØ WTR		200mmØ STM 0.161m CLEARANCE OVER 200mmØ SAN
	40	200mmØ SAN 0.417m CLEARANCE OVER 200mmØ WTR

	CATCH BASIN DATA TABLE												
				<b>ELEVATION</b>		OUTLE	T PIPE						
TRUCTURE	STRUCTURE	COVER	TOP OF	INV	/ERT	DIAMETER	TVDE	HEAD	FLOW	ICD TYPE			
ID			GRATE	INLET	OUTLET	(mm)	TYPE						
RYCB1	OPSD 705.010	S19	93.70		92.900	200	PVC DR-35	1.65	23.0	Tempest HF			
CB01	OPSD 705.010	S19	94.25		92.850	200	PVC DR-35	1.65	19.0	Tempest HF			
CB02	OPSD 705.010	S19	94.40		93.000	200	PVC DR-35	1.65	63.0	Tempest HF			
CB03	OPSD 705.010	S19	94.45		93.000	200	PVC DR-35	1.65	8.0	Tempest HF			
CB04	OPSD 705.010	S19	94.85		93.450	200	PVC DR-35	1.65	32.0	Tempest HF			
CB05	OPSD 705.010	S19	94.50		93.100	200	PVC DR-35	1.65	48.0	Tempest HF			
CB06	OPSD 705.010	S19	94.80		93.350	200	PVC DR-35	1.65	32.0	Tempest HF			
CB07	OPSD 705.010	S19	94.50		93.150	200	PVC DR-35	1.65	11.0	Tempest HF			
RYCB2	OPSD 705.010	S19	94.60		93.050	200	PVC DR-35	1.65	6.0	Tempest HF			
MH20	OPSD 701.011	S25 & S24.1	94.70		92.375	250	PVC DR-35	1.65	19.0	Tempest HF			

Revision: 2021-12-07 Bold font indicates CB's with ICD's

	CATCH BASIN DATA TABLE													
			ELEVATION		OUTLE	T PIPE								
RUCTURE	STRUCTURE	COVER	TOP OF	INV	'ERT	DIAMETER	TYPE	HEAD	FLOW	ICD TYPE				
ID			GRATE	INLET	OUTLET	(mm)	ITPE							
RYCB1	OPSD 705.010	S19	93.70		92.900	200	PVC DR-35	1.65	23.0	Tempest HF				
CB01	OPSD 705.010	S19	94.25		92.850	200	PVC DR-35	1.65	19.0	Tempest HF				
CB02	OPSD 705.010	S19	94.40		93.000	200	PVC DR-35	1.65	63.0	Tempest HF				
CB03	OPSD 705.010	S19	94.45		93.000	200	PVC DR-35	1.65	8.0	Tempest HF				
CB04	OPSD 705.010	S19	94.85		93.450	200	PVC DR-35	1.65	32.0	Tempest HF				
CB05	OPSD 705.010	S19	94.50		93.100	200	PVC DR-35	1.65	48.0	Tempest HF				
CB06	OPSD 705.010	S19	94.80		93.350	200	PVC DR-35	1.65	32.0	Tempest HF				
CB07	OPSD 705.010	S19	94.50		93.150	200	PVC DR-35	1.65	11.0	Tempest HF				
RYCB2	OPSD 705.010	S19	94.60		93.050	200	PVC DR-35	1.65	6.0	Tempest HF				
								_						

	CATCH BASIN DATA TABLE												
ELEVATION OUTLET PIPE													
ICTURE	STRUCTURE	COVER	TOP OF	INV	/ERT	DIAMETER	TVDE	HEAD	FLOW	ICD TYPE			
ID			GRATE	INLET	OUTLET	(mm)	TYPE						
/CB1	OPSD 705.010	S19	93.70		92.900	200	PVC DR-35	1.65	23.0	Tempest HF			
B01	OPSD 705.010	S19	94.25		92.850	200	PVC DR-35	1.65	19.0	Tempest HF			
B02	OPSD 705.010	S19	94.40		93.000	200	PVC DR-35	1.65	63.0	Tempest HF			
B03	OPSD 705.010	S19	94.45		93.000	200	PVC DR-35	1.65	8.0	Tempest HF			
B04	OPSD 705.010	S19	94.85		93.450	200	PVC DR-35	1.65	32.0	Tempest HF			
B05	OPSD 705.010	S19	94.50		93.100	200	PVC DR-35	1.65	48.0	Tempest HF			
B06	OPSD 705.010	S19	94.80		93.350	200	PVC DR-35	1.65	32.0	Tempest HF			
B07	OPSD 705.010	S19	94.50		93.150	200	PVC DR-35	1.65	11.0	Tempest HF			
/CB2	OPSD 705.010	S19	94.60		93.050	200	PVC DR-35	1.65	6.0	Tempest HF			

PAVEMENT STRUCTURE **
CAR ONLY PARKING AREAS:
50mm WEAR COURSE - HL-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE 150mm BASE - OPSS GRANULARGRANULAR "A" CRUSHED STONE 300mm SUBBASE - OPSS GRANULAR "B" TYPE II SUBGRADE - IN SITU SOIL, OR OPSS GRANULAR "B" TYPE I OR II MATERIAL PLACED OVER IN SITU SOIL
HEAVY TRUCK PARKING AREAS AND ACCESS LANES:
40mm WEAR COURSE - HL-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE 50mm BINDER COURSE - HL-8 OR SUPERPAVE 19.0 ASPHALTIC CONCRETE

150mm BASE COURSE - OPSS GRANULAR "A" CRUSHED STONE 450mm SUBBASE - OPSS GRANULAR "B" TYPE II SUBGRADE - IN SITU SOIL, OR OPSS GRANULAR "B" TYPE I OR II

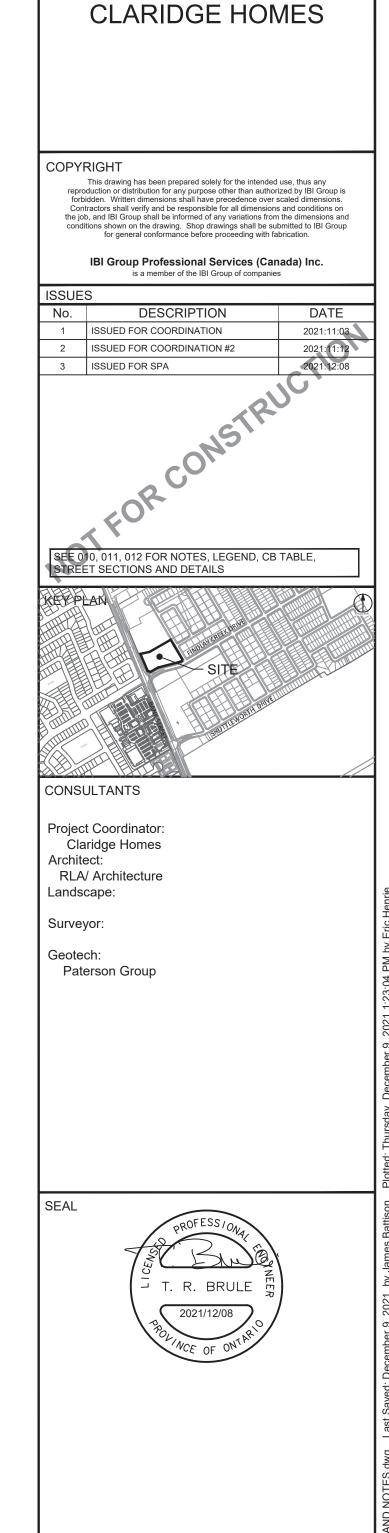
MATERIAL PLACED OVER IN SITU SOIL

\*\* REFER TO GEOTECHNICAL REPORT

		WATERAIN SCHE	DULE		
Α	Station	Description	Finished	Top of	As Buil
	0+000.00	11.25° BEND	94.82	92.42	
	0+016.21	SERVICE CROSS	94.69	92.29	
	0+028.99	45° BEND	94.82	92.42	
	0+032.57	SERVICE TEE	94.86	92.46	
	0+033.63	45° BEND	94.88	92.48	
	0+045.12	HY DA NT TEE	94.80	92.40	
	0+057.13	SERVICE TEE	94.77	92.37	
	0+063.13	VB	94.73	92.33	
	0+065.02	V-BEND	94.73	92.33	
	0+065.52	V-BEND	94.73	92.36	
	0+067.72	V-BEND	94.73	92.36	
	0+068.22	V-BEND	94.73	92.33	
	0+080.56	SERVICE TEE	94.72	92.32	
	0+092.89	HY DA NT TEE	94.66	92.26	
	0+102.14	45° BEND	94.59	92.19	
	0+103.04	V-BEND	94.60	92.20	
	0+103.54	V-BEND	94.61	92.26	
	0+104.94	V-BEND	94.63	92.26	
	0+105.44	V-BEND	94.63	92.23	
	0+105.69	SERVICE TEE	94.64	92.24	
	0+106.74	45° BEND	94.64	92.24	
	0+124.98	SERVICE TEE	94.53	92.13	
	0+126.14	V-BEND	94.55	92.15	
	0+126.64	V-BEND	94.56	93.17	
	0+128.84	V-BEND	94.59	93.17	
	0+129.34	V-BEND	94.60	92.20	
	0+131.06	SERVICE TEE	94.62	92.22	
	0+159.45	VB	94.40	92.00	
	0+165.66	22.5° BEND	94.27	91.87	
В	0+175.75	TVS	94.18	91.78	

		Sa	nitary ST	RUCTURE	TABLE	
NAME	RIM ELEV.	INVERT IN	INVERT IN AS-BUILT	INVERT OUT	INVERT OUT AS-BUILT	DESCRIPTION
MH01A	94.69	NW90.978				1200mmØ OPSD-701.010
MH02A	94.83	NE91.186 W91.156		SE91.126		1200mmØ OPSD-701.010
MH03A	94.21	W91.220 N92.700		E91.200		1200mmØ OPSD-701.010
MH04A	94.57	SE91.849 N91.582		SW91.577		1200mmØ OPSD-701.010
MH10A	94.16	E92.652		N92.592		1200mmØ OPSD-701.010
MH11A	94.81	S92.447 N93.302		E91.367		1200mmØ OPSD-701.010
MH14A	93.11	NE91.398 NW91.600		SW91.353		1200mmØ OPSD-701.010
MH15A	94.66	SW93.158 NE92.964		SE92.490		1200mmØ OPSD-701.010
MH16A	93.79	NW92.284 NE91.662		S91.642		1200mmØ OPSD-701.010
MH17A	94.40			SE92.890		1200mmØ OPSD-701.010
MH18A	94.26	NW92.031 SE91.858		SW91.798		1200mmØ OPSD-701.010
MH19A	94.46	SW92.953		SE92.893		1200mmØ OPSD-701.010
MH20A	0.00	SE92.023		NW92.003		1200mmØ OPSD-701.010
MH21A	94.02	SW92.361		NW92.177		1200mmØ OPSD-701.010
MH22A	94.21	NE92.424		NW92.100		1200mmØ OPSD-701.010
MH24A	94.89	S93.386		E93.300		1200mmØ OPSD-701.010
MH25A	94.66	W93.153		S93.099		1200mmØ OPSD-701.010

	Storm STRUCTURE TABLE										
NAME	RIM ELEV.	INVERT IN	INVERT IN AS-BUILT	INVERT OUT	INVERT OUT AS-BUILT	DESCRIPTION					
CBMH18	95.35			SE92.652		1200mmØ OPSD-701.0					
MH01	94.60	NW91.564		S91.314		1200mmØ OPSD-701.0					
MH02	94.33	SW92.746 NE91.779		SE91.679		1200mmØ OPSD-701.0					
MH03	94.76	NW93.257 SE92.899		NE92.849		1200mmØ OPSD-701.0					
MH04	94.29	SE92.170 N92.779		SW92.095		1200mmØ OPSD-701.0					
MH05	95.41	SE92.612 NE92.393 SW92.443		NW92.268		1200mmØ OPSD-701.0					
MH06	94.26	S92.755		NE92.551		1200mmØ OPSD-701.0					
MH20	94.70	NW92.588 SE92.588		SW92.588		1200mmØ OPSD-701.0					
MH21	94.07			NW92.628		1200mmØ OPSD-701.0					





OJECT NO: 34437	
AWN BY:	CHECKED BY: TRB
OJECT MGR:	APPROVED BY: TRB
DETAILS A	ND NOTES

File Location: J:X134437\_Linyunc

SHEET NUMBER ISSUE

	<u>LEGEND:</u>						
MH3A	EXISTING SANITARY MANHOLE	O <sup>MH3A</sup>	SANITARY MANHOLE	H/B/T/G	EXISTING UTILITIES	·	PAD MOUNTED TRANSFORMER
○ <sup>MH3</sup>	EXISTING STORM MANHOLE	O <sup>MH3</sup>	STORM MANHOLE		EXISTING DUCT BANK		LIGHT FIXTURE
CB T/G 99.76	EXISTING STREET CATCHBASIN	■ CB T/G 99.76	CATCHBASIN c/w TOP OF GRATE	1.3%	SLOPE C/W FLOW DIRECTION	_===	PRIMARY DUCT BANK
CICB G/G 99.76	EXISTING CURB INLET CATCHBASIN	RYCB	REAR YARD CATCHBASIN c/w GUTTER GRADE		MAJOR OVERLAND FLOW ROUTE	— SEC —— SEC —— SEC ——	SECONDARY POWER
⊗ V&VB	EXISTING VALVE AND VALVE BOX	T/G 99.76		× 104.62	PROPOSED SPOT GRADE		
⊗ V&C	EXISTING VALVE AND CHAMBER	⊖ <sub>ECB</sub> T/G 100.25	REAR YARD "END" CATCHBASIN C/W TOP OF GRATE 3000)	×104.40 (\$)	PROPOSED SWALE GRADE		
→ HYD B/F 100.5	EXISTING HYDRANT	( СВМН	CATCHBASIN MANHOLE	×104.50 (s)HP	PROPOSED SWALE HIGH POINT		
	EXISTING BARRIER CURB	T/G 101.55	c/w TOP OF GRATE	104.60 103.59 ×	LOT CORNER GRADE C/W EXISTING GROUND		
D.C.	EXISTING DEPRESSED BARRIER CURB	⊗ <sup>VB</sup>	VALVE AND VALVE BOX	86.45 EX ×	TIE INTO EXISTING GRADE		
	EVICTING CONODETE CIDEWALK	⊗ <sup>V&amp;C</sup>	VALVE AND CHAMBER	×92.51	EXISTING AOV SURVEY GRADE		
	EXISTING CONCRETE SIDEWALK	+ HYD B/F 100.56	HYDRANT c/w BOTTOM OF FLANGE ELEVATION	×92.35 EG	EXISTING IBI SURVEY GRADE		
	= 250mmØ SUBDRAIN	D.C.	DEPRESSED BARRIER CURB AS PER SC1.1	96.79	FULL STATIC PONDING GRADE		
>	SIAMESE CONNECTION (IF REQUIRED)	D.C.	BARRIER CURB AS PER SC1.1		RETAINING WALL		
M	METER		MOUNTABLE CURB AS PER SC1.3	105.30 T/W	TOP OF RETAINING WALL		
(RM)	REMOTE METER		PROPOSED CONCRETE SIDEWALK	103.50 B/W	PROPOSED BOTTOM OF RETAINING WALL		
PRV	PRESSURE REDUCING VALVE	200mmø SAN	SANITARY SEWER & FLOW DIRECTION	بليليليل	TERRACING 3:1 MAXIMUM UNLESS NOTED OTHERWISE		
A	WATERMAIN IDENTIFICATION	825mmø STM	STORM SEWER & FLOW DIRECTION	r 1	PRELIMINARY ROOF DRAIN LOCATION		
1	PIPE CROSSING IDENTIFICATION	200¢ WATERMAIN	WATERMAIN	TP 13-301			
		200ø RED 150ø WM WM	WATERMAIN REDUCER	-	TEST PITS (SEE GEOTECHNICAL REPORT)		
-	INLET CONTROL DEVICE LOCATION	2 VBENDS	VERTICAL BEND LOCATION		CLAY DYKES PER S8		
0	PROTECTIVE BOLLARD		PROPERTY LINE	USF=92.394	PROPOSED UNDERSIDE OF FOOTING ELEVATION		
	HEAVY DUTY ASPHALT / FIRE ROUTE		PROPOSED MAIL BOX	TOF=94.731	PROPOSED TOP OF FOUNDATION ELEVATION		

