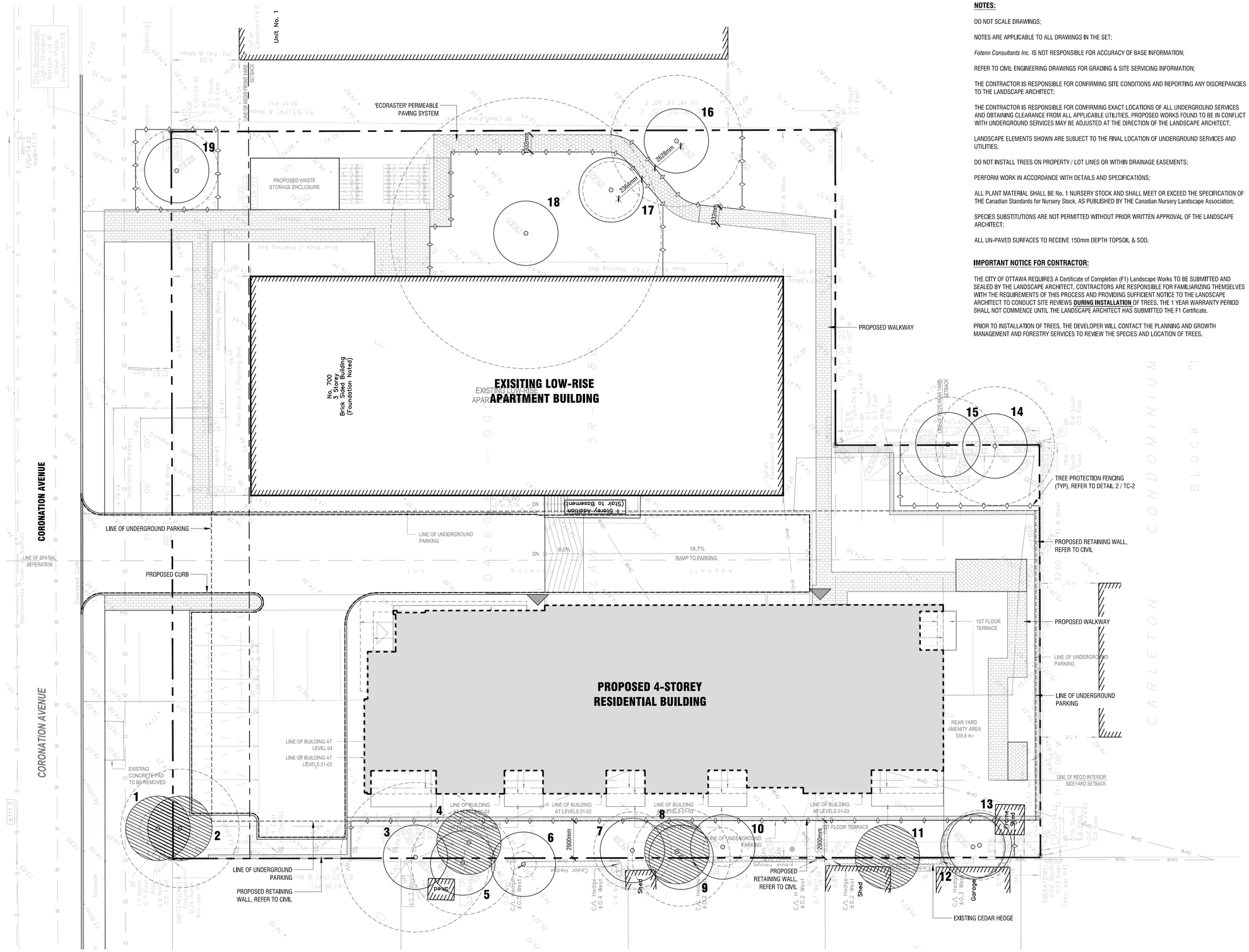

NOTES:

DO NOT SCALE DRAWINGS;

NOTES ARE APPLICABLE TO ALL DRAWINGS IN THE SET;

Fotenn Consultants Inc. IS NOT RESPONSIBLE FOR ACCURACY OF BASE INFORMATION;

REFER TO CIVIL ENGINEERING DRAWINGS FOR GRADING & SITE SERVICING INFORMATION;

THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING SITE CONDITIONS AND REPORTING ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT;

THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING EXACT LOCATIONS OF ALL UNDERGROUND SERVICES AND OBTAINING CLEARANCE FROM ALL APPLICABLE UTILITIES. PROPOSED WORKS FOUND TO BE IN CONFLICT WITH UNDERGROUND SERVICES MAY BE ADJUSTED AT THE DIRECTION OF THE LANDSCAPE ARCHITECT;

LANDSCAPE ELEMENTS SHOWN ARE SUBJECT TO THE FINAL LOCATION OF UNDERGROUND SERVICES AND UTILITIES;

DO NOT INSTALL TREES ON PROPERTY / LOT LINES OR WITHIN DRAINAGE EASEMENTS;

PERFORM WORK IN ACCORDANCE WITH DETAILS AND SPECIFICATIONS;

ALL PLANT MATERIAL SHALL BE No. 1 NURSERY STOCK AND SHALL MEET OR EXCEED THE SPECIFICATION OF THE Canadian Standards for Nursery Stock, AS PUBLISHED BY THE Canadian Nursery Landscape Association;

SPECIES SUBSTITUTIONS ARE NOT PERMITTED WITHOUT PRIOR WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT;

ALL UN-PAVED SURFACES TO RECEIVE 150mm DEPTH TOPSOIL & SOD.

IMPORTANT NOTICE FOR CONTRACTOR:

THE CITY OF OTTAWA REQUIRES A Certificate of Completion (F1) Landscape Works TO BE SUBMITTED AND SEALED BY THE LANDSCAPE ARCHITECT. CONTRACTORS ARE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH THE REQUIREMENTS OF THIS PROCESS AND PROVIDING SUFFICIENT NOTICE TO THE LANDSCAPE ARCHITECT TO CONDUCT SITE REVIEWS **DURING INSTALLATION** OF TREES. THE 1 YEAR WARRANTY PERIOD SHALL NOT COMMENCE UNTIL THE LANDSCAPE ARCHITECT HAS SUBMITTED THE F1 Certificate.

PRIOR TO INSTALLATION OF TREES, THE DEVELOPER WILL CONTACT THE PLANNING AND GROWTH MANAGEMENT AND FORESTRY SERVICES TO REVIEW THE SPECIES AND LOCATION OF TREES.

1 TREE CONSERVATION PLAN
TC-1 1:150

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- CRITICAL ROOTING ZONE (CRZ) IDENTIFIED, REFER TO TABLE 1 ON TC-2 FOR RADIUS OF CRZ
- TREE PROTECTION FENCING, REFER TO DETAIL 2 / TC-2
- PROPOSED CURB LINES
- PROPOSED BUILDING
- EXISTING TREES TO BE RETAINED - APPROXIMATE LOCATIONS BASED ON FIELD OBSERVATION NOTES BY IFS ASSOCIATES
- EXISTING TREES TO BE REMOVED - APPROXIMATE LOCATIONS BASED ON FIELD OBSERVATION NOTES BY IFS ASSOCIATES

rev'n	description / la description	yyyy/mm/dd
02	issue for COORDINATION	2020/11/09
01	issue for COORDINATION	2020/09/17
00	issue for COORDINATION	2020/06/26

FOTENN Planning + Design
396 Cooper Street, Suite 300
Ottawa, ON, CANADA K2P 2H7
613.730.5709
fotenn.com

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TREE CONSERVATION AND REMOVALS PLAN

designed / conçu	drawn / dessiné	reviewed / examiné
PM / KP	PM	KP / DF
date	project number / No. du projet	
May 2020	X ##-##	

drawing number / No. du dessin

TC-1

TABLE 1: TREE INVENTORY AND ASSESSMENT

NO.	SPECIES	D.B.H.[1] (cm)	TREE CONDITION	STATUS [2]	CRZ [3](m)
1	Crab apple (Malus spp.)	14	Poor, Mature; suppressed by neighbouring maple; crown very asymmetric; cultivar	To be removed	1.4
2	Norway maple (Acer platanoides)	46	Fair, Mature; multi-stemmed at 2.5m from grade – central stem with five competing laterals (poor form); introduced invasive species	To be removed	4.6
3	White elm (Ulmus americana)	58	Good, Mature; utility line girdling central stem; no outward sign of Dutch elm disease (Ophiostoma ulmi(novo- ulmi); native species	To be retained	5.8
4	Manitoba maple (Acer negundo)	60	Very poor, Mature; double-stemmed from grade; one stem dead, one very divergent towards east – hazardous; naturalized species;	To be removed	6.0
5	White elm (Ulmus americana)	40	Good, Mature; upright stem; crown asymmetric towards west; no outward signs of Dutch elm disease	To be retained	4.0
6	White cedar (Thuja occidentalis)	10	Good, Mature; hedge form; native species	To be retained	1.0
7	Little-leaf linden (Tilia americana)	30	Good, Mature; coppice growth from stump; all stems divergent; introduced species	To be retained	3.0
8	White elm (Ulmus americana)	15	Dead, Likely killed by Dutch elm disease	To be removed	1,5
9	White elm (Ulmus americana)	38	Good, Mature; no outward signs of Dutch elm disease	To be retained	3.8
10	Little-leaf linden (Tilia americana)	15	Poor; Mature; coppice growth from stump; all stems divergent	To be retained	1.5
11	Ash (Fraxinus spp.)	20	Dead, Likely killed by emerald ash borer (Agrilus planipennis); topped at 4m – below hydro lines; native species	To be removed	2.0
12	Little-leaf linden (Tilia americana)	24	Poor; Mature; topped to provide clearance from Hydro lines - crown very asymmetric	To be retained	2.4
13	Little-leaf linden (Tilia americana)	27	Poor, Mature; topped to provide clearance from Hydro lines – crown very asymmetric	To be retained	2.7
14	Siberian elm (Ulmus pumila)	46	Fair, Mature; generally upright form; introduced invasive species	To be retained	4.6
15	Siberian elm (Ulmus pumila)	37	Fair, Mature; double-stemmed at 0.5m; generally upright form	To be retained	3.7
16	Silver maple (Acer saccharinum)	51	Good, Mature; tri-stemmed at 1-1.75m from grade (included bark at union); dense, broad crown; native species	To be retained	5.1
17	White spruce (Picea glauca)	22	Good, Mature; good pyramidal form; fair crown density, growth increment and needle colour	To be retained	2.2
18	White elm (Ulmus americana)	105	Fair, Very mature; crown raised to 12m to provide clearance from roof, slightly asymmetric towards northwest; multiple large surface roots damaged by mowers; no outward signs of Dutch elm disease	To be retained	10.5
19	White spruce (Picea glauca)	32	Fair, Mature; moderately thin crown; fair increment and colour	To be retained	3.2

[1] D.B.H.: INDICATES DIAMETER (cm) MEASUREMENT AT BREAST HEIGHT (1.3m ABOVE GRADE);
[2] TO BE RETAINED OR REMOVED
[3] CRZ: INDICATES RADIUS OF CRITICAL ROOTING ZONE AND IS ESTABLISHED AS BEING 10 CENTIMETERS FROM THE TRUNK OF A TREE FOR EVERY 1 CENTIMETER OF TRUNK DIAMETER AT BREAST HEIGHT (DBH). THE CRZ IS CALCULATED AS DBH x 10cm

REFER TO RECOMMENDATIONS IN REPORT PREPARED BY IFS Associates FOR TECHNIQUES TO PRESERVE TREES.

NOTES:
1. INFORMATION ON TABLE ABOVE IS EXTRACTED FROM THE TREE CONSERVATION REPORT PREPARED BY CERTIFIED ARBORIST, IFS ASSOCIATES, DATED SEPTEMBER 18, 2020.
2. REFER TO 'TREE PRESERVATION AND PROTECTION MEASURES' ON THE ARBORIST REPORT PRIOR TO ANY CONSTRUCTION WORKS ON SITE.
3. ANY WORKS WITHIN CRITICAL ROOT ZONE OF THE EXISTING TREES TO BE RETAINED NEEDS TO BE UNDERTAKEN BY HAND AND LIGHT EQUIPMENT TO THE SATISFACTION OF THE ARBORIST/LANDSCAPE ARCHITECT. SEE ALSO NOTE (5) ON #2/TC-2 FOR MORE INFORMATION.

1 TC-2 TABLE 1
n.t.s.

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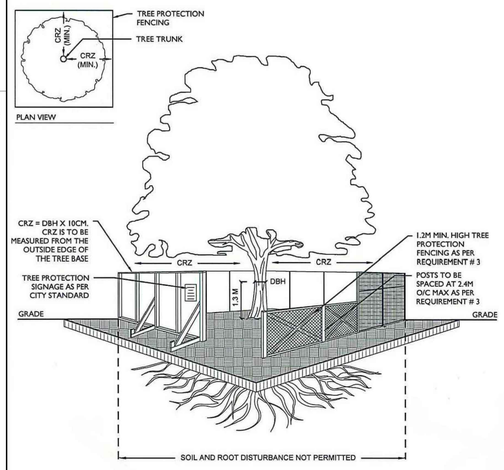
TITLE: TREE PRESERVATION PROTECTION FENCE

DWG No: F7 REV: JAN 2020 DATE: FEB 2013

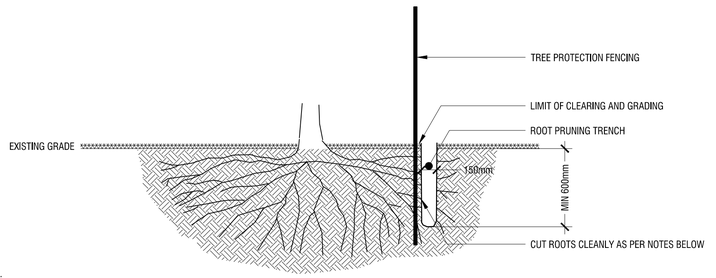


TREE PROTECTION REQUIREMENTS:
1. PRIOR TO ANY WORK ACTIVITY WITHIN THE CRITICAL ROOT ZONE (CRZ = 10 X DIAMETER) OF A TREE, TREE PROTECTION FENCING MUST BE INSTALLED SURROUNDING THE CRITICAL ROOT ZONE, AND REMAIN IN PLACE UNTIL THE WORK IS COMPLETE.
2. UNLESS PLANS ARE APPROVED BY CITY FORESTRY STAFF, FOR WORK WITHIN THE CRZ:
   - DO NOT PLACE ANY MATERIAL OR EQUIPMENT - INCLUDING OUTHOUSES;
   - DO NOT ATTACH ANY SIGNS, NOTICES OR POSTERS TO ANY TREE;
   - DO NOT RAISE OR LOWER THE EXISTING GRADE;
   - TUNNEL OR BORE WHEN DIGGING;
   - DO NOT DAMAGE THE ROOT SYSTEM, TRUNK, OR BRANCHES OR ANY TREE;
   - ENSURE THAT EXHAUST FUMES FROM ALL EQUIPMENT ARE NOT DIRECTED TOWARD ANY TREE CANOPY.
   - DO NOT EXTEND HARD SURFACE OR SIGNIFICANTLY CHANGE LANDSCAPING
3. TREE PROTECTION FENCING MUST BE AT LEAST 1.2M IN HEIGHT, AND CONSTRUCTED OF RIGID OR FRAMED MATERIALS (E.G. MODULOC - STEEL, PLYWOOD HOARDING, OR SNOW FENCE ON A 2"X4" WOOD FRAME) WITH POSTS 2.4M APART, SUCH THAT THE FENCE LOCATION CANNOT BE ALTERED. ALL SUPPORTS AND BRACING MUST BE PLACED OUTSIDE OF THE CRZ, AND INSTALLATION MUST MINIMISE DAMAGE TO EXISTING ROOTS. (SEE DETAIL)
4. THE LOCATION OF THE TREE PROTECTION FENCING MUST BE DETERMINED BY AN ARBORIST AND DETAILED ON ANY ASSOCIATED PLANS FOR THE SITE (E.G. TREE CONSERVATION REPORT, TREE DISCLOSURE REPORT, ETC). THE PLAN AND CONSTRUCTED FENCING MUST BE APPROVED BY CITY FORESTRY STAFF PRIOR TO THE COMMENCEMENT OF WORK.
5. IF THE FENCED TREE PROTECTION AREA MUST BE REDUCED TO FACILITATE CONSTRUCTION, MITIGATION MEASURES MUST BE PRESCRIBED BY AN ARBORIST AND APPROVED BY CITY FORESTRY STAFF. THESE MAY INCLUDE THE PLACEMENT OF PLYWOOD, WOOD CHIPS, OR STEEL PLATING OVER THE ROOTS FOR PROTECTION OR THE PROPER PRUNING AND CARE OF ROOTS WHERE ENCOUNTERED.

BY-LAWS
ALL CITY-OWNED TREES ARE PROTECTED UNDER THE MUNICIPAL TREES AND NATURAL AREAS PROTECTION BY-LAW (2006-279). WITHIN THE URBAN AREA, PRIVATELY-OWNED TREES GREATER THAN 50CM DIAMETER ON LOTS 1HA IN SIZE OR LESS, AND TREES GREATER THAN 10CM DIAMETER ON LOTS >1HA, ARE PROTECTED UNDER THE URBAN TREE CONSERVATION BY-LAW (2009-200).

ACCESSIBLE FORMATS AND COMMUNICATION SUPPORTS ARE AVAILABLE, UPON REQUEST

2 TC-2 TREE PROTECTION FENCING
n.t.s.



NOTES:

- PROPER ROOT PRUNING TECHNIQUE REQUIRED WHEN TREE ROOTS ENCOUNTERED DURING EXCAVATION.
- EXCAVATIONS WITHIN DRIPLINE SHOULD BE BY DIRECTIONAL MICRO-TUNNELLING AND BORING. OUTSIDE THE DRIPLINE, ROOTS SHOULD BE CUT CLEANLY (AS PER ABOVE DRAWING) WITH PRUNING SHEARS OR A SAW WIPED WITH ALCOHOL BEFORE EACH CUT,
- AFTER ROOTS ARE CLEANLY CUT, THE AREA SHOULD BE BACKFILLED WITH SUITABLE MATERIAL (TO BE APPROVED BY LANDSCAPE ARCHITECT) TO PREVENT DESSICATION;
- WHERE APPROPRIATE, THE TREES SHALL UNDERGO AN OVERALL PRUNING TO RESTORE TREE APPEARANCE AND / OR RESTORE THE BALANCE BETWEEN TOP GROWTH AND ROOTS. DO NOT PRUNE LEADERS.

3 TC-2 ROOT PRUNING TECHNIQUE
n.t.s.

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TABLE 1 AND DETAILS

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PM / KP	PM	KP / DF
date: May 2020	project number / No. du projet: X ##-##	

drawing number / No. du dessin

TC-2