

Luminaire Schedule							
Symbol	Qty	Label	Description	Lum. Lumens	Lum. Watts	LLF	Filename
	1	A	ALK-LS24-XX-40K	19210	112.1	0.900	ALK-LS24-XX-40K.IES
	8	B	WP2-LS24-W_40K	4822	59	0.900	WP2-LS24-W-40K.IES
	3	AA	ALK-LS24-XX-40K	19210	112.1	0.900	ALK-LS24-XX-40K.IES
	16	C	IFS-LS1-Q/40K-BZ	5878	141	0.900	IFS-LS1-Q/40K-BZ.IES
	7	E	WPV-LS1-W-40K-BR-65571	1286	12.11	0.900	WPV-LS1-W-40K-BR-65571.IES
	1	X	ALK-LS14-XX-40K	12710	74.1	0.900	ALK-LS14-XX-40K.IES
	1	XX	ALK-LS14-XX-40K	12710	74.1	0.900	ALK-LS14-XX-40K.IES

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Gas Canopy	Illuminance	Fc	23.70	27.1	18.6	1.27	1.46
Parcel A	Illuminance	Fc	2.91	14.1	0.6	4.85	23.50
Parcel B	Illuminance	Fc	2.33	13.5	0.4	5.83	33.75
Property Line E	Illuminance	Fc	0.1	0.2	0.0	0.1	0.2
Property Line N	Illuminance	Fc	0.1	0.2	0.0	0.1	7.00
Property Line W	Illuminance	Fc	0.57	4.5	0.0	N.A.	N.A.

DRAWING NOTES:

① CONTRACTOR TO PROVIDE 1-1" C TO THIS LOCATION FROM THE PARCEL-A ELECTRICAL ROOM

② CONTRACTOR TO PROVIDE 1-1" C TO THIS LOCATION FROM THE PARCEL-B ELECTRICAL ROOM

PARCEL-A LOAD CAL		PARCEL-B LOAD CAL	
BUILDING A1 C-STORY	150 KVA 150 KVA	BUILDING B1	250 KVA
		BUILDING B2 RESTAURANT #1	150 KVA
		BUILDING B2 RESTAURANT #2	150 KVA
		BUILDING B2 RESTAURANT #3	150 KVA
TOTAL LOAD CAL	300 KVA	TOTAL LOAD CAL	700 KVA

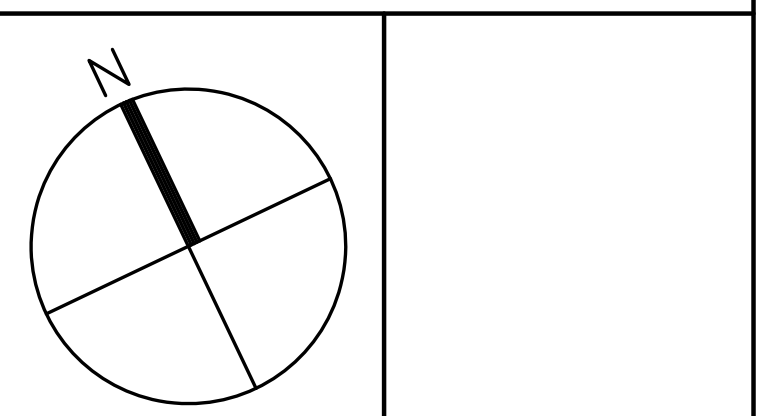
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NO.	DATE	DESCRIPTION	BY
5	02/17/21	FOR TENDER	M.S.B.
4	12/16/20	REVISED FOR SPA COMMENTS	M.S.B.
3	11/10/20	REVISED FOR SPA COMMENTS	M.S.B.
2	06/19/20	REVISED FOR SPA	M.S.B.
1	10/21/19	ISSUED FOR PERMIT	M.S.B.

MARK VOID ALL PRINTS DATED PREVIOUS TO FINAL DATE ABOVE	
REVISIONS	
CLIENT:	

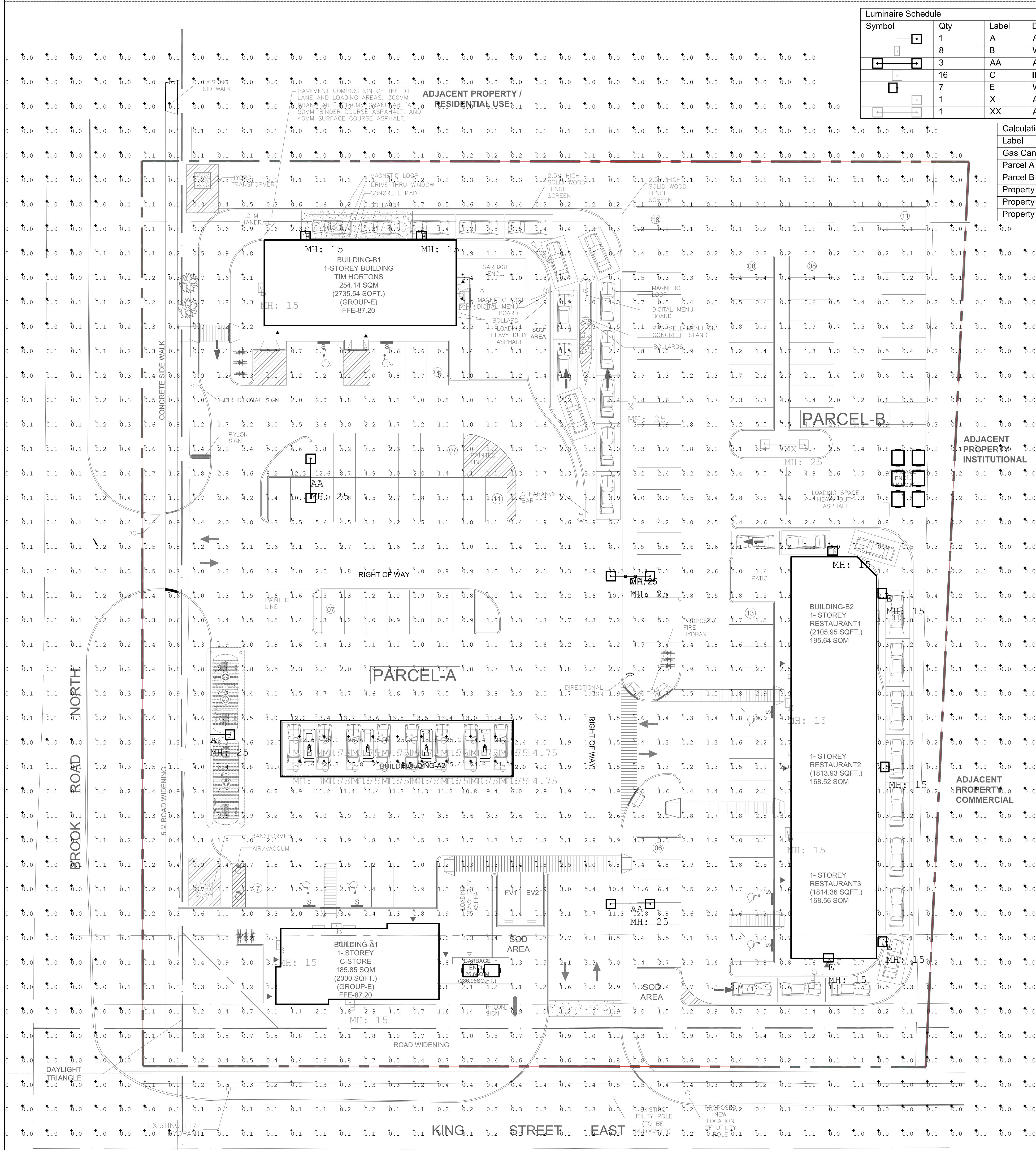
PROJECT NAME:
New Service

PROJECT ADDRESS:
**428 & 432 King Road
Cobourg, ON**



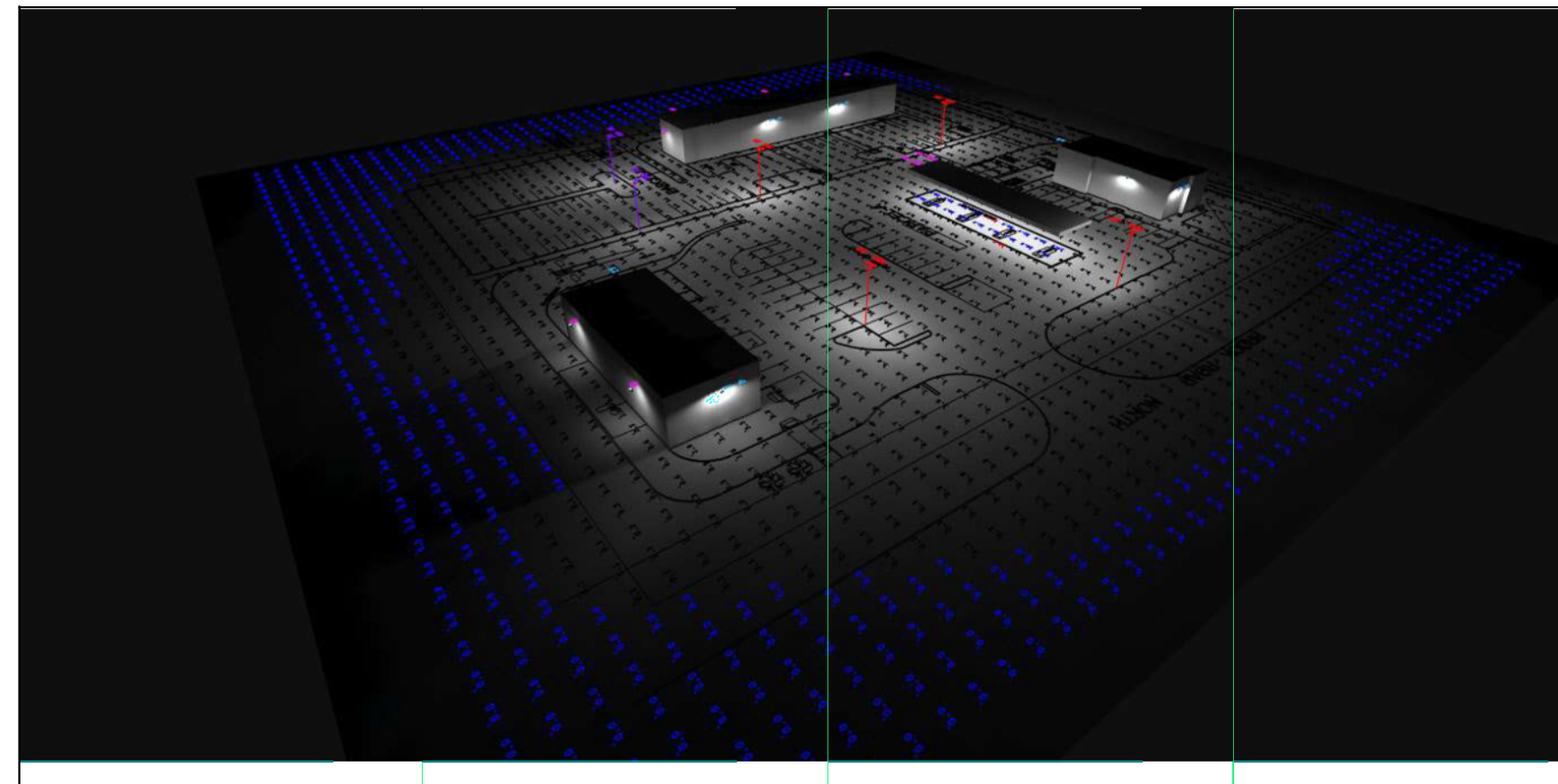
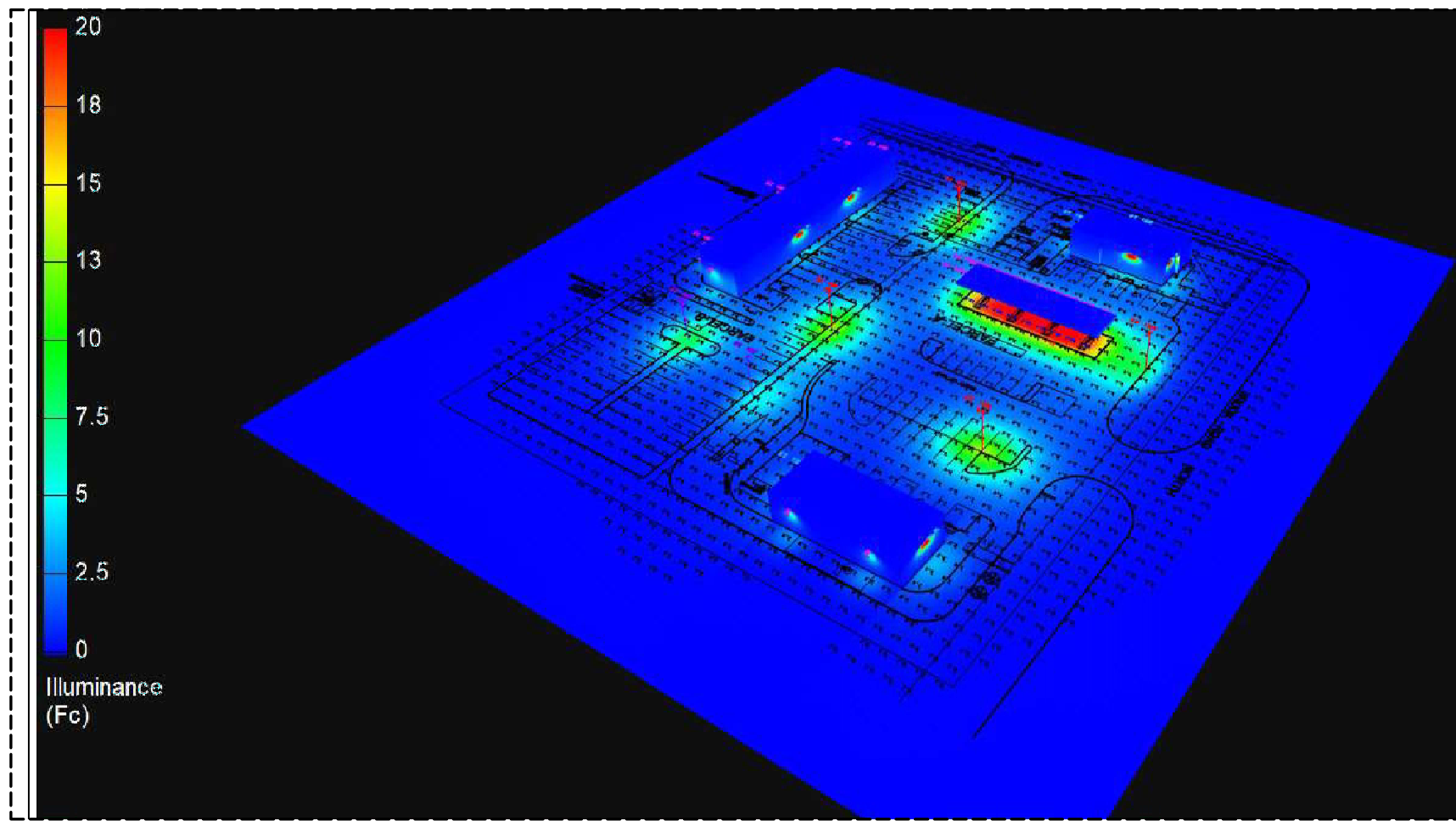
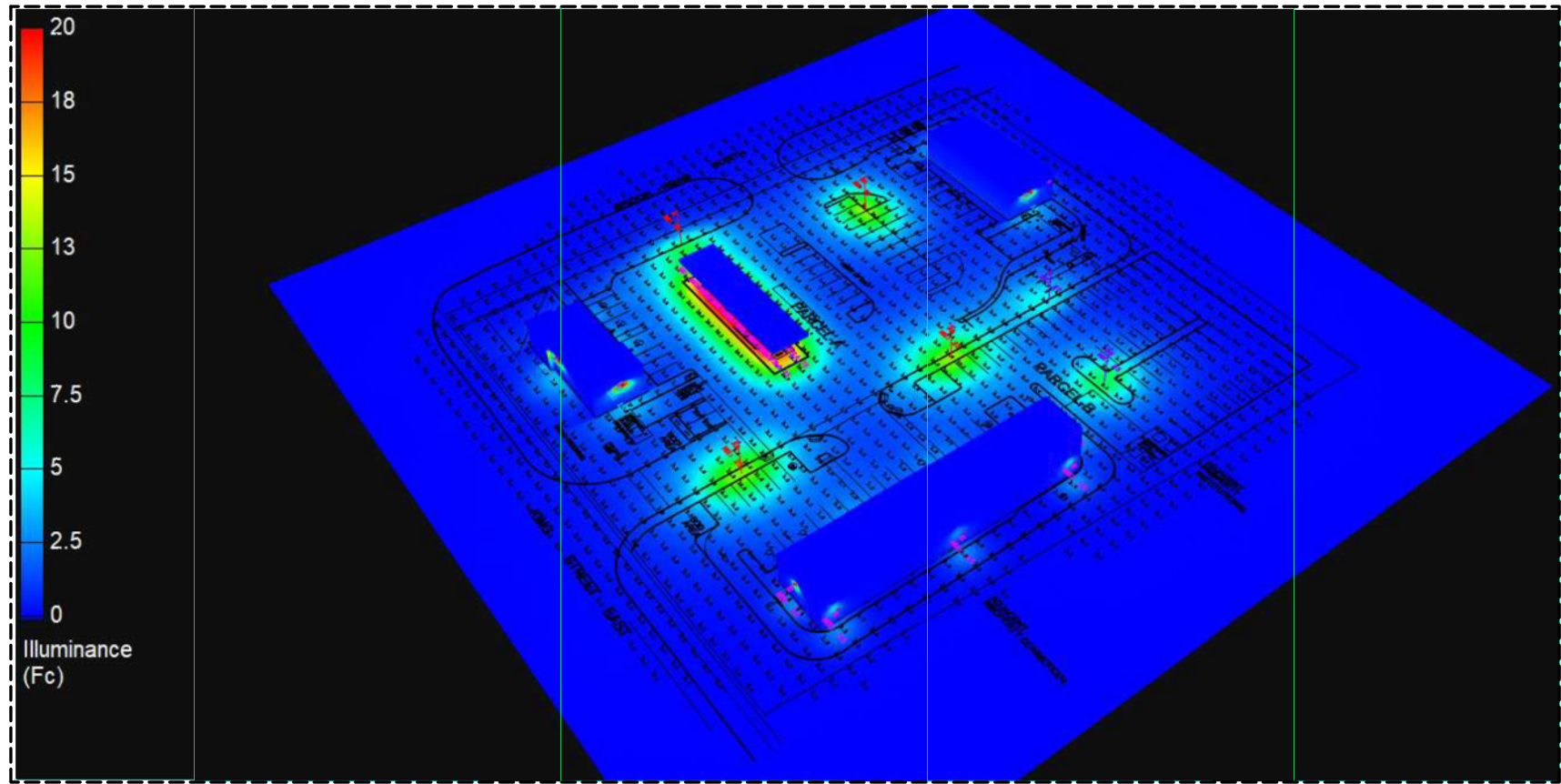
MSBA
MS BHARAJ & ASSOCIATES
DESIGN | ENGINEERING
23-6033 Shawson Dr., Mississauga, ON L5T 1H8
Tel: 647 297 7668 | msbharaj@gmail.com

PROJECT TITLE:	
ELECTRICAL SITE PLAN PARCEL B PHASE I	
DESIGN:	M.S.B.
PROJECT NUMBER:	1914
DRAWN BY:	T.S.
SCALE:	1:150
CHECKED BY:	M.S.B.
DRAWING NUMBER:	E-1B
DATE:	November, 2020



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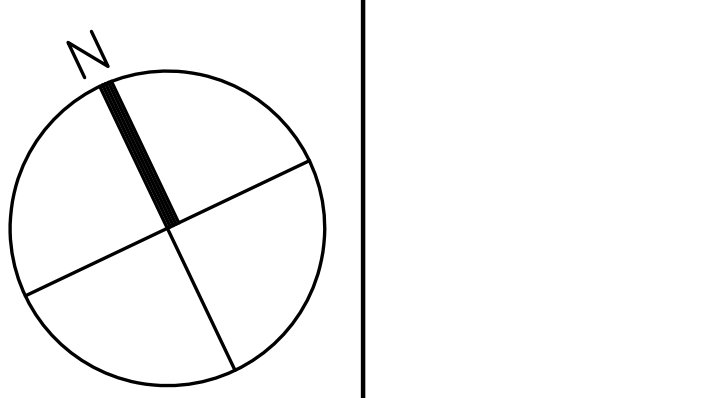
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REVISIONS

CLIENT:

PROJECT NAME:
New Service

PROJECT ADDRESS:
428 & 432 King Road
Cobourg, ON



MSBA
MS BHARAJ & ASSOCIATES
DESIGN | ENGINEERING
23-6033 Shawson Dr., Mississauga, ON L5T 1H8
Tel: 647 297 7668 | msbharaj@gmail.com

PROJECT TITLE:

ELECTRICAL
LIGHTING CAL

DESIGN:	M.S.B.	PROJECT NUMBER:	1914
DRAWN BY:	T.S.	SCALE:	NTS
CHECKED BY:	M.S.B.	DRAWING NUMBER:	E-2
DATE:	November, 2020		

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MARK VOID ALL PRINTS DATED
PREVIOUS TO FINAL DATE ABOVE

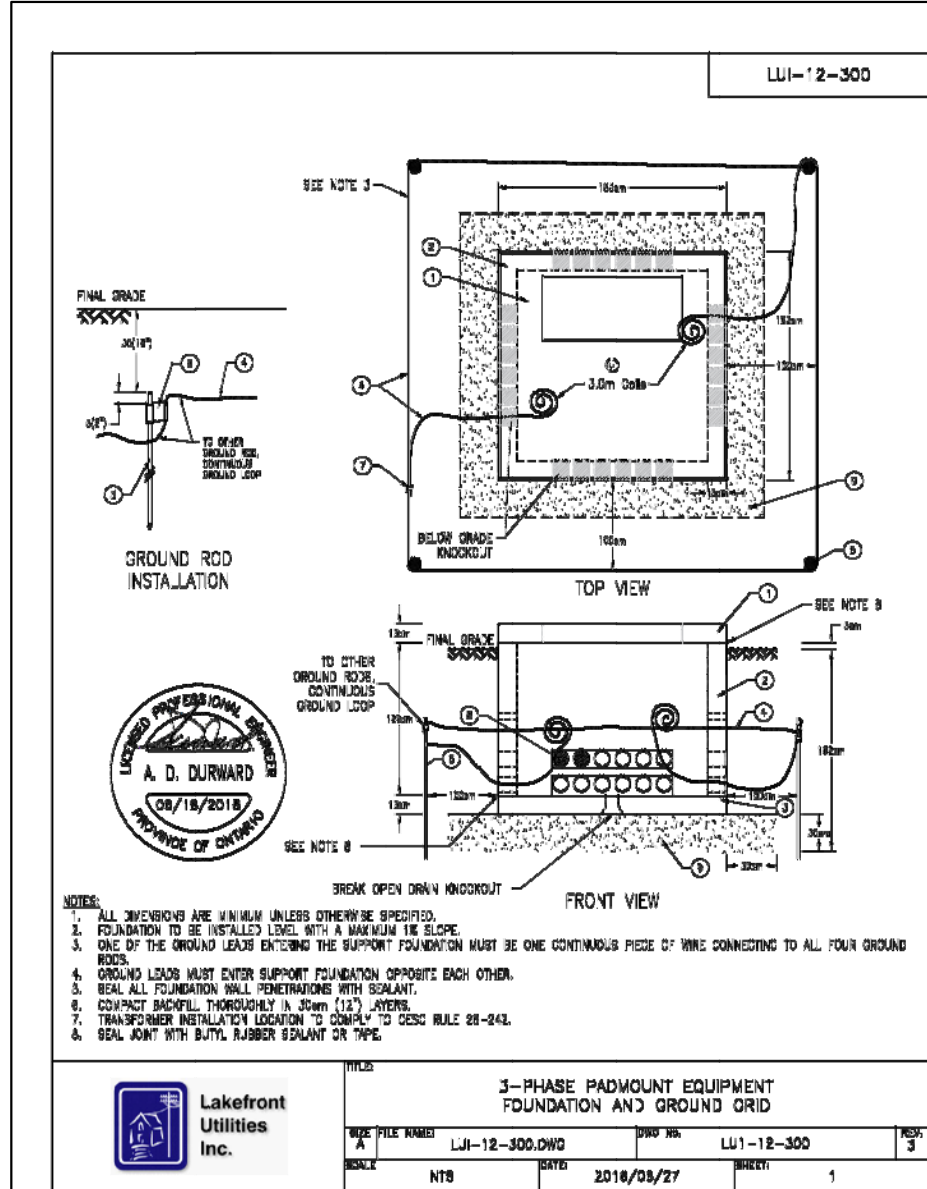
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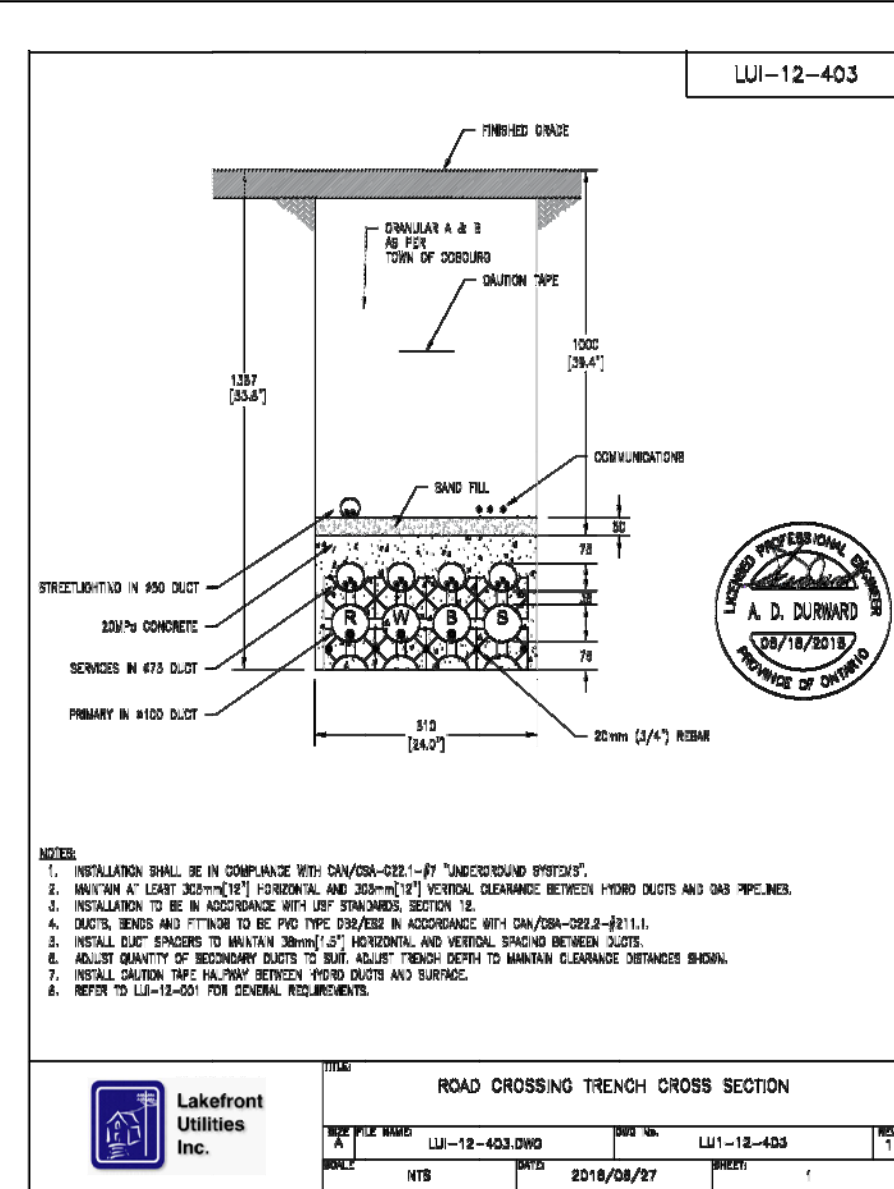
PROJECT TITLE:
ELECTRICAL
LIGHTING SPECIFICATION

DESIGN:	M.S.B.	PROJECT NUMBER:	1914
DRAWN BY:	T.S.	SCALE:	NTS
CHECKED BY:	M.S.B.	DRAWING NUMBER:	E-3
DATE:	November, 2020		

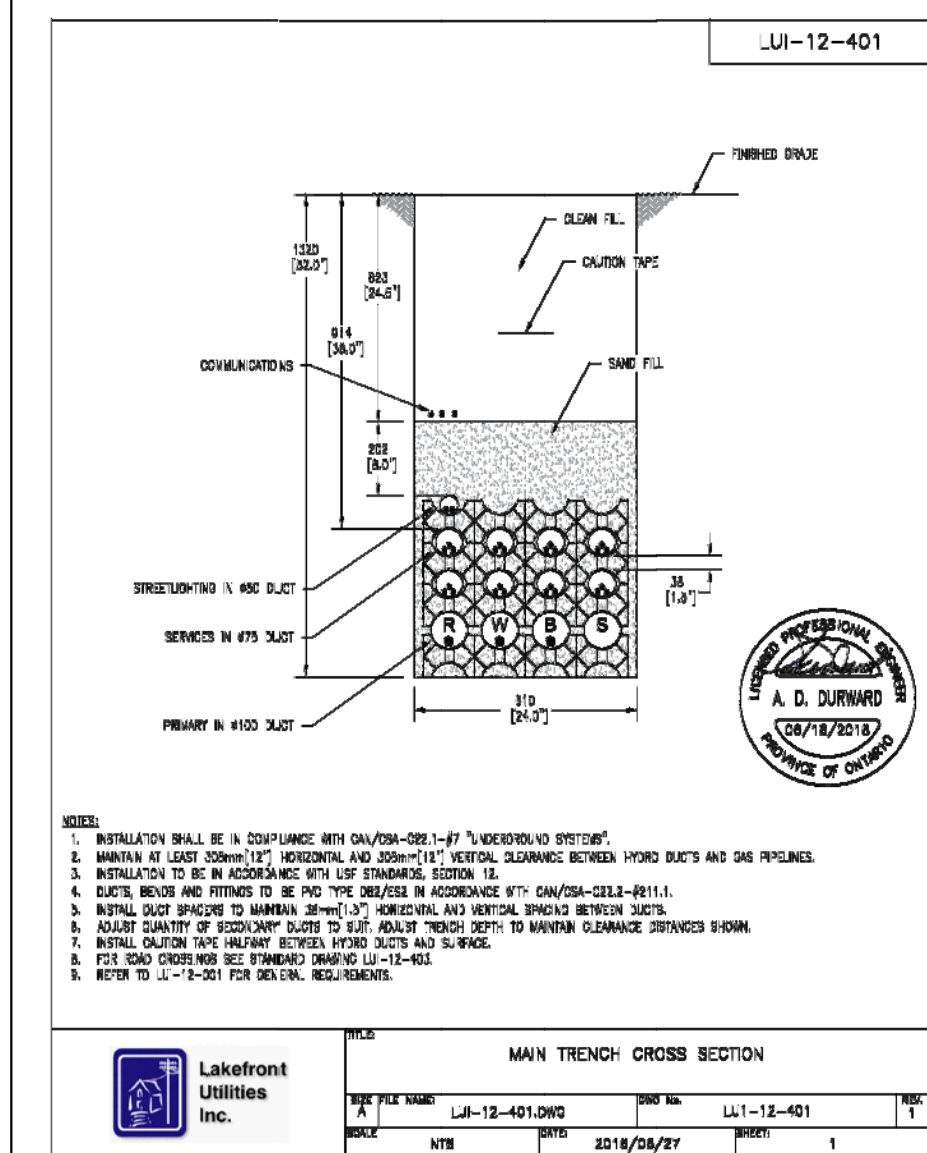
GENERAL NOTES:			
1. GENERAL SCOPE OF WORK 1.1. FURNISH ALL LABOUR, MATERIALS, EQUIPMENT, TOOLS AND SUPPORTS AS WELL AS SUPERVISION TO PROVIDE A COMPLETE INSTALLATION, TESTED AND IN WORKING ORDER, AS SHOWN ON THE DRAWINGS. 1.2. THE CONTRACTOR SHALL PERFORM THE WORK STIPULATED IN THE CONTRACT AND ANY OR ALL CONTRACT CHANGES AND CHANGE DIRECTIVES, AND SHALL FURNISH, UNLESS OTHERWISE PROVIDED IN THE CONTRACT, EVERYTHING NECESSARY FOR THE PROPER PERFORMANCE AND COMPLETION OF THE WORK. 1.3. ALL WORK SHALL BE FULLY TESTED, COMMISSIONED AND IN GOOD WORKING ORDER AT TIME OF HAND-OVER TO OWNER. 1.4. MAKE GOOD ANY DAMAGES TO EXISTING EQUIPMENT AND/OR SYSTEM(S), COORDINATE WORK AND WORKING HOURS WITH THE OWNER AND OTHER TRADES TO MINIMIZE DISRUPTION. 2. CODES AND STANDARDS 2.1. ALL WORK SHALL CONFORM TO THE MOST RECENT ISSUES OF: 2.1.1. THE ONTARIO BUILDING CODE 2.1.2. THE ONTARIO ELECTRICAL SAFETY CODE 2.1.3. THE MINISTRY OF THE ENVIRONMENT 2.1.4. THE NATIONAL ELECTRICAL CODE 2.1.5. BYLAWS AND REGULATIONS ISSUED BY THE BUILDING AUTHORITY HAVING JURISDICTION 2.1.6. ASHRAE 2.1.7. ASME 2.1.8. SMACNA 2.1.9. NFPA 2.1.10. TSSA 2.1.11. CSA 2.1.12. CGA 3. COORDINATE AND PAY FOR ALL TSSA INSPECTIONS. 4. SPECIFICATIONS 4.1. COMPLY WITH THE GENERAL SECTIONS AND APPLICABLE SECTIONS OF THE GENERAL CONTRACT SPECIFICATIONS. 5. WARRANTY 5.1. WARRANT ALL LABOUR AND MATERIALS INCLUDED IN THIS CONTRACT FOR A PERIOD OF TWO YEARS FROM DATE OF FINAL ACCEPTANCE, ASSUME FULL RESPONSIBILITY FOR LAYOUT OF ALL WORK AND FOR ANY DAMAGE CAUSED TO OWNER OR OTHERS BY IMPROPER CARRYING OUT OF THE WORK. 6. DRAWINGS 6.1. PROVIDE SIGNED GENERAL INTENT OF THE WORK AND PROPOSED ROUTING ONLY. 6.2. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL CONFIRM ALL DIMENSIONS BY FIELD MEASURE BEFORE PROCEEDING WITH THE WORK. 6.3. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING POSSIBLE INTERFERENCES AND INFORMING THE ENGINEER. 7. SITE CONDITIONS 7.1. PROVIDE SITE CONDITIONS TO ENSURE THAT WORK CAN BE SATISFACTORILY CARRIED OUT AS SHOWN, IF SITE EXAMINATION REVEALS ANY DIFFICULTIES THAT WILL PREVENT THE WORK FROM BEING CARRIED OUT AS DESIGNED THESE MUST BE INDICATED IN THE TENDER PRICE, AND BROUGHT TO THE ATTENTION OF THE ENGINEER. 7.2. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY ADDITIONAL DIFFICULTIES, INTERFERENCES, OR SITE CONSTRAINTS THAT MAY BE IDENTIFIED DURING THE CONSTRUCTION PERIOD. 7.3. ALL NOISY WORK SHALL BE PERFORMED AFTER NORMAL BUSINESS HOURS; BETWEEN 8PM AND 7AM, MONDAY THROUGH FRIDAY; AND ON WEEKENDS, FRIDAY 8PM THROUGH MONDAY 7AM. 7.4. COORDINATE SITE ACCESS AND DELIVERIES WITH LANDLORD AND/OR GENERAL CONTRACTOR. 8. CLEANING 8.1. CLEAN PREMISES ONLY AT THE END OF EACH WORK DAY. 8.2. DO NOT ACCUMULATE EQUIPMENT, TOOLS, DEBRIS AND WASTE MATERIALS ON SITE. REMOVE FROM SITE DAILY. 8.3. COMPLETELY REMOVE ALL DEBRIS AND RUBBISH FROM SPACE ONCE WORK IS COMPLETE. 8.4. ALL MATERIALS TO BE DISPOSED OF CONSTRUCTION SITE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. 9. MATERIALS 9.1. USE ONLY NEW CSA AND UL/C CERTIFIED EQUIPMENT AND MATERIALS UNLESS OTHERWISE INDICATED. 9.2. ONLY FIRST CLASS WORKSMANSHIP WILL BE ACCEPTED WITH RESPECT TO STANDARD PRACTICES, SAFETY, ACCESSIBILITY, DURABILITY AND NEATNESS OF INSTALLATION WORK. 10. SHOP DRAWINGS 10.1. SUBMIT 4 COPIES OF SHOP DRAWINGS, UNLESS OTHERWISE INDICATED, FOR ENGINEER'S REVIEW. 10.2. SUBMIT SHOP DRAWINGS AND PRODUCT DATA FOR ENGINEER'S REVIEW COVERING ALL RELEVANT DETAILS, DIMENSIONS AND PERFORMANCE. 10.3. SHOP DRAWINGS MUST BE REVIEWED, STAMPED AND SIGNED BY THE CONTRACTOR AND THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO CONSULTANT / ENGINEER FOR REVIEW. 11. CUTTING, PATCHING AND PAINTING REQUIREMENTS 11.1. PROVIDE CUTTING, PATCHING AND PAINTING FOR ALL OPENINGS. USE QUALIFIED TRADES FOR THIS WORK. RESTORE FINISHES TO MATCH EXISTING SURROUNDINGS. 11.2. SUPPLY AND INSTALL APPROVED FIRESTOP AS REQUIRED TO MAINTAIN FIRE RATING. 11.3. PIPING AND VENTS THROUGH WALL AND ROOF SHALL BE BY THE MECHANICAL DIVISION CONTRACTOR, INCLUDING ALL PATCHING. 12. CORING REQUIREMENTS 12.1. FOR ALL CORING LESS THEN 3" DIA. CONTRACTOR SHALL BE RESPONSIBLE FOR SCANNING AREA PRIOR TO CORING THROUGH FLOORS/CEILING. 12.2. FOR ALL CORING GREATER THEN 3" DIA. CONTRACTOR SHALL BE RESPONSIBLE FOR X-RAYING AREA PRIOR TO CORING THROUGH FLOORS/CEILING. 13. ACCESS PANELS 13.1. PROVIDE ACCESS PANELS FOR INSTALLATION BY THE GENERAL CONTRACTOR AND ALL SUB-TRADES WHERE REQUIRED FOR SERVICE OF CONCEALED EQUIPMENT INSTALLED BY THIS DIVISION. 13.2. PROVIDE 12"x19" (300x300mm) ACCESS PANEL TO ACCESS ANY CONCEALED VALVE AND FETTERING AND 24"x24" (600x600mm) TO ACCESS DUCT BALANCING DAMPERS, SMOKE/FIRE DAMPERS ETC. 13.3. PROVIDE FIRE RATED ACCESS PANEL WHERE REQUIRED. RATING TO MATCH WALL OR CEILING. 14. PENETRATIONS THROUGH FLOORS AND WALLS 14.1. UNLESS OTHERWISE SPECIFIED ON DRAWINGS, GLASS FIBRE FIRE RETARDANT INSULATION AND FIRESTOP CAULKING SHALL BE PACKED AROUND ALL PIPING, FLOORS AND WALLS AT THE TIME OF PIPE INSTALLATION. FIRESTOP CAULKING SHALL BE 3M FIRE BARRIER FIRESTOP CAULK OR EQUIVALENT. 14.2. APPLY FIRESTOP SYSTEMS IN ACCORDANCE WITH 3M'S INSTRUCTIONS. ALL SYSTEMS SHALL MEET CSA F-SYSTEM RATINGS FOR THE PARTICULAR FIRE RATING OF THE PENETRATED SURFACE. 14.3. FIRESTOPPING MATERIAL MUST BE A LISTED #30 CERTIFIED INSTALLATION (REFER TO LIST IN SPECIFICATION PACKAGE). 14.4. MATERIALS SHALL BE ASBESTOS-FREE ELASTOMERIC MATERIALS, TESTED, LISTED AND LABELED BY ILC IN ACCORDANCE WITH CAN 4-5315-MRS. AND CAN 450-5101-M FOR INSTALLATION IN ILC DESIGNATED FIRE STOPPING AND SMOKE SEAL SYSTEMS, TO PROVIDE A POSITIVE FIRE, WATER AND SMOKE SEAL, AND A FIRE RESISTANCE RATING (FLAME, MOKE, STREAM AND TEMPERATURE) NOT LESS THAN THE FIRE RATING FOR SURROUNDING CONSTRUCTION. 14.5. PROVIDE PIPE SLEEVES FOR ALL PIPING PENETRATIONS THROUGH FLOORS AND FINISHES. 14.6. PROVIDE PIPE SLEEVES FOR ALL PIPING PENETRATIONS THROUGH FLOOR, WALL AND SLAB. PIPE SLEEVE SHALL BE ONE SIZE LARGER THAN PIPE SIZE (MINIMUM). 15. DIELECTRIC ISOLATION 15.1. PROVIDE ISOLATION WHEN USING DISSIMILAR MATERIALS, TO PREVENT GALVANIC ACTION. 16. VIBRATION ISOLATION 16.1. PROVIDE AND INSTALL MINIMUM 3/4" THICK NEOPRENE PADS W/MOUNTS UNDER FLOOR MOUNTED HVAC EQUIPMENT AS PER MANUFACTURER RECOMMENDATIONS. 17. ELECTRICAL 17.1. ALL LOW VOLTAGE CONTROL WIRING (<50V) SHALL BE BY THIS DIVISION, TO ELECTRICAL DIVISION STANDARDS. 18. PRESSURE TESTING 18.1. ALL PIPING SYSTEMS SHALL BE PRESSURE TESTED TO 800 kPa OR 1.5 TIMES SYSTEM OPERATING PRESSURE FOR A DURATION OF 24 HRS UNLESS OTHERWISE INDICATE. 19. AS BUILT DRAWINGS 19.1. MAINTAIN A RECORD OF ALL REVISIONS. PREPARE REDUCED DRAWINGS IN A NEAT MANNER SHOWING ALL DEVIATIONS IN WORK. ON COMPLETION OF WORK, SUBMIT TO THE ENGINEER ONE HARD COPY OF AS BUILT DRAWINGS AND ELECTRONIC FORMAT DRAWINGS (IN AUTOCAD). 19.2. AUTOCAD FILES WILL BE PROVIDED BY THE ENGINEER AT A COST OF \$50 FOR THE FIRST DRAWING, AND \$25 EACH FOR ALL OTHER DRAWINGS. 20. OPERATION AND MAINTENANCE MANUALS 20.1. SUBMIT FOUR (4) COPIES OF O&M MANUALS TO ENGINEER FOR REVIEW. ALSO INCLUDE 1 COPY IN PDF FORMAT. MANUALS SHALL INCLUDE AS BUILT DRAWINGS (CAD AND PDF FORMAT), APPROVED SHOP DRAWINGS OF ALL NEW EQUIPMENT, TEST AND BALANCING REPORTS, COMMISSIONING REPORTS, WARRANTIES, TRAINING RECORDS, AND OPERATION & MAINTENANCE PROCEDURES. 21. TESTING, ADJUSTING AND BALANCING (T.A.B.) 21.1. INCLUDE REPORT IN THE OPERATION AND MAINTENANCE MANUALS 21.2. NOTIFY ENGINEER OF ANY DISCREPANCIES GREATER THAN .5% OF DESIGN VALUES PRIOR OF SUBMISSION OF REPORT. 22. REMOVE ALL ABANDONED PIPES, HANGERS, INSERTS, CONDUITS, DUCTS AND SERVICES. FIRESTOP AND SEAL ALL AFFECTED AREAS. 23. SEAL AND FIRESTOP ALL WALL, FLOOR AND ROOF PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. 23.1. CONTRACTOR MUST ASSURE THAT REFRIGERANT PIPING CROSSING PASSAGEWAY SHALL NOT BE LESS THAN 7.25 IN ABOVE THE FLOOR UNLESS THE PIPING IS LOCATED AGAINST THE CEILING OF SUCH SPACE AND PERMITTED BY THE AUTHORITY HAVING JURISDICTION. 25. DUCT FLEXIBLE CONNECTIONS MUST BE INSTALLED AT INLETS AND OUTLETS OF SUPPLY AND EXHAUST AIR UNITS. 26. CO-ORDINATE ALL DIMENSIONS WITH EQUIPMENT SHOP DRAWINGS. 27. THOROUGHLY INSPECT EXISTING STRUCTURE AND CHECK SITE CONDITIONS WITH CONDITION SHOWN ON CONTRACT DRAWINGS BEFORE PROCEEDING WITH WORK. MAKE ADJUSTMENTS TO WORK TO SUIT EXISTING CONDITION AND IN CONFORMANCE WITH DESIGN INTENT. REPORT ANY DISCREPANCIES TO THE ENGINEER.		29. WELDING SHALL BE UNDERTAKEN BY A COMPANY CERTIFIED BY CANADIAN WELDING BUREAU UNDER REQUIREMENTS OF DIVISION 1 OR DIVISION 2.1 OR W47.1. 30. MATERIALS AND WORK WHICH FAILS TO MEET SPECIFIED REQUIREMENTS WILL BE REJECTED BY THE ENGINEER WHENEVER IT IS IDENTIFIED PRIOR TO FINAL ACCEPTANCE. THE CONTRACTOR SHALL REMOVE PREVIOUS INSPECTIONS, WHEN REQUIRED, DEFECTIVE MATERIALS OR WORK SHALL BE PROMPTLY REMOVED, REPLACED OR REPAIRED TO THE SATISFACTION OF THE ENGINEER AT NO EXPENSE TO THE OWNER. ELECTRICAL SPECIFICATIONS 1. GENERAL CONDITIONS 1.1. THE INSTRUCTIONS TO BIDDERS AND THE SUPPLEMENTARY GENERAL CONDITIONS, AS ISSUED SHALL FORM A PART OF THIS SPECIFICATION. 2. SCOPE OF WORK 2.1. PROVIDE ALL MATERIALS, TOOLS, EQUIPMENT AND LABOUR SHOWN, NOTED, SPECIFIED OR REQUIRED TO COMPLETE THE WORK, THESE TOGETHER WITH ALL OTHER ITEMS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS IMPLIED AND INTENDED SHALL BE INCLUDED IN THE CONTRACT EXCEPT SUCH ITEMS AS MAY BE HEREAFTER SPECIFICALLY EXCLUDED FROM THE CONTRACT. 2.2. THE WORK SHALL GENERALLY CONSIST OF THE FOLLOWING: 2.2.1. MAIN SERVICE AND DISTRIBUTION. 2.2.2. PANELS AND BRANCH CIRCUIT WIRING. 2.2.3. WIRING DEVICES 2.2.4. WIRING FOR AND CONNECTION OF MECHANICAL EQUIPMENT. 2.2.5. PROVISIONS FOR BELL CANNON. 2.2.6. INSTALLATION AND CONNECTION OF ELECTRICAL HEATING. 2.2.7. SUPPLY AND INSTALLATION OF EMERGENCY LIGHTING SYSTEM. 2.2.8. SUPPLY AND INSTALLATION OF LIGHTING FIXTURES AND LAMPS. 3. WORKSMANSHIP & MATERIALS 3.1. ENTIRE WORK SHALL BE UNDERTAKEN USING ONLY SPECIFIED MATERIAL AND APPARATUS, EXCEPT WHERE THE WORDS "OR APPROVED EQUAL" OCCUR. 3.2. MATERIALS ARE HERIN SPECIFICALLY DESCRIBED AND NAMED FOR THE PURPOSE OF ESTABLISHING A STANDARD OF MATERIALS AND WORKSMANSHIP TO WHICH THIS DIVISION SHALL ADHERE AND THE CONTRACT PRICE, SUBMITTED SHALL BE BASED ON THE USE OF MATERIALS AND EQUIPMENT AS SPECIFIED HEREIN. 3.3. WHERE THE WORDS "OR APPROVED EQUAL" OCCUR, THIS DIVISION MAY USE MATERIALS, OTHER THAN THOSE SPECIFIED, PROVIDED THAT THE ENGINEER APPROVES THE MATERIALS AND QUALITY OF THE SUBSTITUTE MATERIALS. 3.4. IF THIS DIVISION INTENDS TO QUOTE ON ALTERNATE MATERIALS AND EQUIPMENT, HE MUST INCLUDE IN HIS TENDER, THE NAME OF THE MANUFACTURER OR SUPPLIER, A COMPLETE DESCRIPTION OF THE SUBSTITUTE MATERIALS & ANY DIFFERENCE IN PRICE. ALTERNATE MATERIALS WILL NOT BE CONSIDERED OR APPROVED AFTER RECEIPT OF TENDERS. 3.5. SAMPLES OF ALL MATERIALS SHALL BE PRESENTED UPON REQUEST BEFORE MATERIALS ARE ORDERED AND ALL APPROVED MATERIALS AND USED EQUIPMENT SHALL BE USED. OUTLET BOXES TO BE USED WITH CONDUITS SHALL BE CONDUIT FS TYPE. 3.6. MATERIALS NOT SPECIFIED SHALL BE OF A HIGH STANDARD OF QUALITY AT LEAST EQUAL TO OTHER MATERIALS WHICH ARE SPECIFIED. 4. DRAWINGS 4.1. DRAWINGS FOR ELECTRICAL WORK ARE IN PART DIAGRAMATIC, INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE GENERAL ARRANGEMENT OF EQUIPMENT AND CONDUITS AND APPROXIMATE SIZES AND LOCATIONS OF EQUIPMENT AND OUTLETS. THIS DIVISION SHALL FOLLOW THESE DRAWINGS IN LAYING OUT HIS WORK. CONDUITS SHALL BE LAYED OUT IN ACCORDANCE WITH HIS WORK AND SHALL VERIFY SPACES IN WHICH HIS WORK WILL BE INSTALLED. 4.2. WHERE JOB CONDITIONS REQUIRE REASONABLE CHANGES TO INDICATED LOCATIONS AND ARRANGEMENT, THIS DIVISION SHALL MAKE SUCH CHANGES WITHOUT EXTRA COST TO THE OWNER. 4.3. DRAWINGS ARE IN GENERAL MADE TO SCALE BUT THIS DIVISION SHALL CHECK AND VERIFY ALL DIMENSIONS ON THE JOB. 5. SHOP DRAWINGS 5.1. SHOP DRAWINGS SHALL BE SUBMITTED (6 COPIES) FOR ITEMS SUCH AS SWITCHBOARDS, PANEL, TRANSFORMERS, LIGHTING FIXTURES, AND EMERGENCY LIGHTING SYSTEMS. 6. RECORD DRAWINGS 6.1. MAINTAIN IN THE JOB SITE OFFICE, AN UP TO DATE SET OF DRAWINGS, THESE DRAWINGS SHALL BE MARKED CLEARLY & INDUBLY IN RED, INDICATING DEVIATIONS FROM & REVISIONS TO ORIGINAL DESIGN OR INTENT. UPON COMPLETION OF CONSTRUCTION, THE SET OF AS-BUILT DRAWINGS SHALL BE BROUGHT TO THE CONSULTANT / LANDLORD FOR TRANSFER TO O&D FILES. INCLUDE FOR CONSULTANTS COSTS TO UPDATE DRAWINGS TO AS BUILT & PLOT. CONTRACTOR TO CARRY \$500.00 FOR CONSULTANTS COSTS. 7. OTHER TRADES 7.1. BEFORE TENDERING, THIS DIVISION SHALL EXAMINE THE CONDITIONS AT THE SITE, THE ARCHITECTURAL, MECHANICAL & STRUCTURAL DRAWINGS, & SHALL MAKE HIMSELF FAMILIAR WITH THE BUILDING CONSTRUCTION, ARCHITECTURAL FINISHES ETC. IN ORDER THAT HIS PRICE MAY INCLUDE EVERY THING NECESSARY FOR THE COMPLETE INSTALLATION OF THE WORK. 7.2. IN THE EVENT THAT ANY DEVIATIONS FROM THE DRAWINGS ARE NECESSARY, THIS DIVISION SHALL CONSULT WITH THE ENGINEER AND OBTAIN WRITTEN APPROVAL BEFORE PROCEEDING. THE DIVISION SHALL BE RESPONSIBLE FOR THE OTHER DIVISIONS INSTALLING EQUIPMENT WHICH MAY AFFECT HIS WORK, AND HE SHALL ARRANGE HIS EQUIPMENT IN PROPER RELATION WITH THE OTHER TRADES. 7.3. THE DIVISION SHALL BE RESPONSIBLE FOR THE OTHER DIVISIONS INSTALLING EQUIPMENT WHICH MAY AFFECT HIS WORK, AND HE SHALL ARRANGE HIS EQUIPMENT IN PROPER RELATION WITH THE OTHER TRADES. 7.4. 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THE WORK COVERED BY THIS DIVISION SHALL BE EXECUTED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE PROVINCIAL BUILDING AUTHORITY, ELECTRICAL SAFETY AUTHORITIES, THE CANADIAN ELECTRICAL CODE AND THE LOCAL MUNICIPAL AUTHORITIES. 9.2. IN THE EVENT THAT ANY DEVIATIONS FROM THE DRAWINGS ARE NECESSARY, THIS DIVISION SHALL CONSULT WITH THE ENGINEER AND OBTAIN WRITTEN APPROVAL BEFORE PROCEEDING. THE DIVISION SHALL BE RESPONSIBLE FOR THE OTHER DIVISIONS INSTALLING EQUIPMENT WHICH MAY AFFECT HIS WORK, AND HE SHALL ARRANGE HIS EQUIPMENT IN PROPER RELATION WITH THE OTHER TRADES. 9.3. THE DIVISION SHALL BE RESPONSIBLE FOR THE OTHER DIVISIONS INSTALLING EQUIPMENT WHICH MAY AFFECT HIS WORK, AND HE SHALL ARRANGE HIS EQUIPMENT IN PROPER RELATION WITH THE OTHER TRADES. 9.4. THE DIVISION SHALL BE RESPONSIBLE FOR THE OTHER DIVISIONS INSTALLING EQUIPMENT WHICH MAY AFFECT HIS WORK, AND HE SHALL ARRANGE HIS EQUIPMENT IN PROPER RELATION WITH THE OTHER TRADES. 9.5. 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ELECTRICAL CONTRACTOR TO UPSIZE WIRING AS REQUIRED TO ENSURE VOLTAGE DROP IS IN COMPLIANCE WITH ELECTRICAL AUTHORITIES. PROVIDE BOND GROUND WIRE IN EVERY CONDUIT. ALL GROUNDING TO COMPLY WITH THE LATEST ELECTRICAL SAFETY CODE. 	



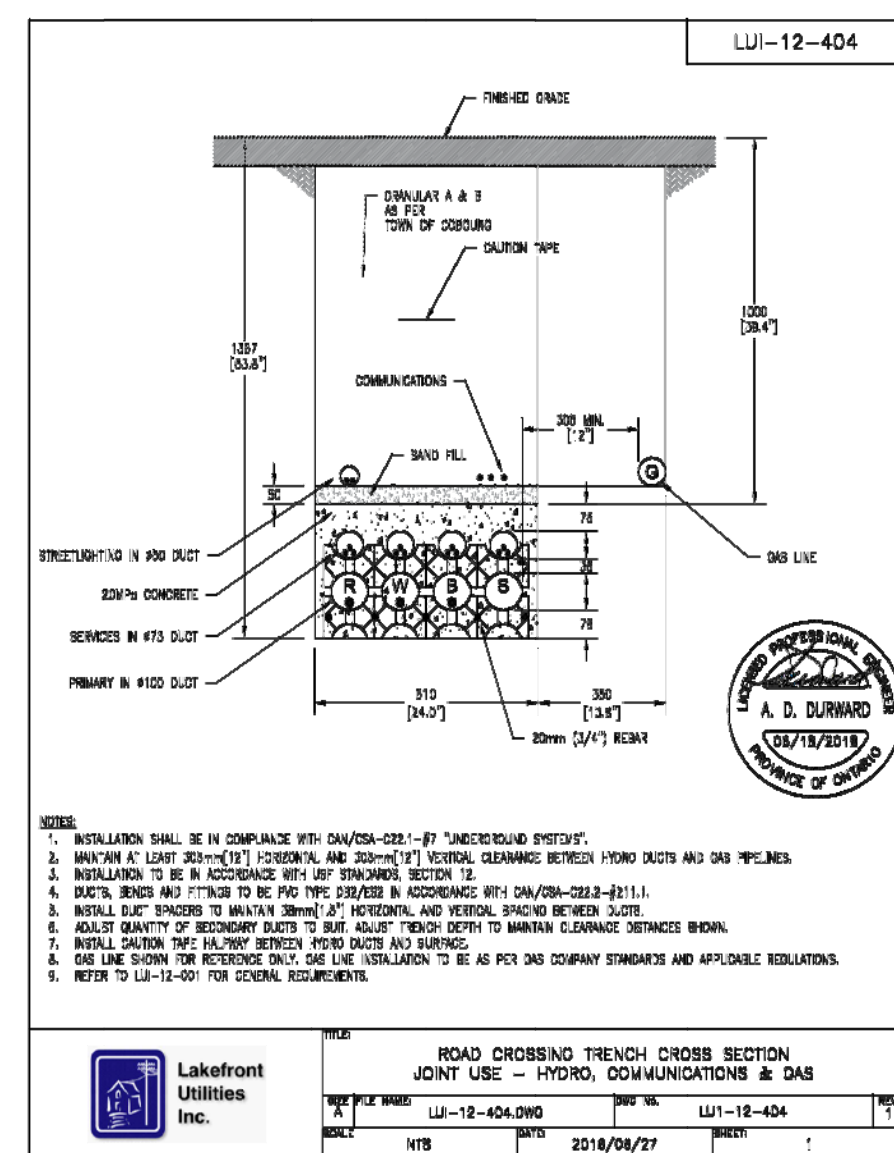
ITEM #	DESCRIPTION	QTY	MANUFACTURER	PRICE	STOCK #
1	FOUNDATION TOP, 12" x 12"	1	BRICKMAN	2011499	WAL-0002
2	FOUNDATION TOP, 12" x 12"	1	BRICKMAN	2011499	WAL-0002
3	FOUNDATION TOP, 12" x 12"	1	BRICKMAN	2011499	WAL-0002
4	FOUNDATION TOP, 12" x 12"	1	BRICKMAN	2011499	WAL-0002
5	FOUNDATION TOP, 12" x 12"	1	BRICKMAN	2011499	WAL-0002
6	FOUNDATION TOP, 12" x 12"	1	BRICKMAN	2011499	WAL-0002
7	FOUNDATION TOP, 12" x 12"	1	BRICKMAN	2011499	WAL-0002
8	FOUNDATION TOP, 12" x 12"	1	BRICKMAN	2011499	WAL-0002
9	FOUNDATION TOP, 12" x 12"	1	BRICKMAN	2011499	WAL-0002



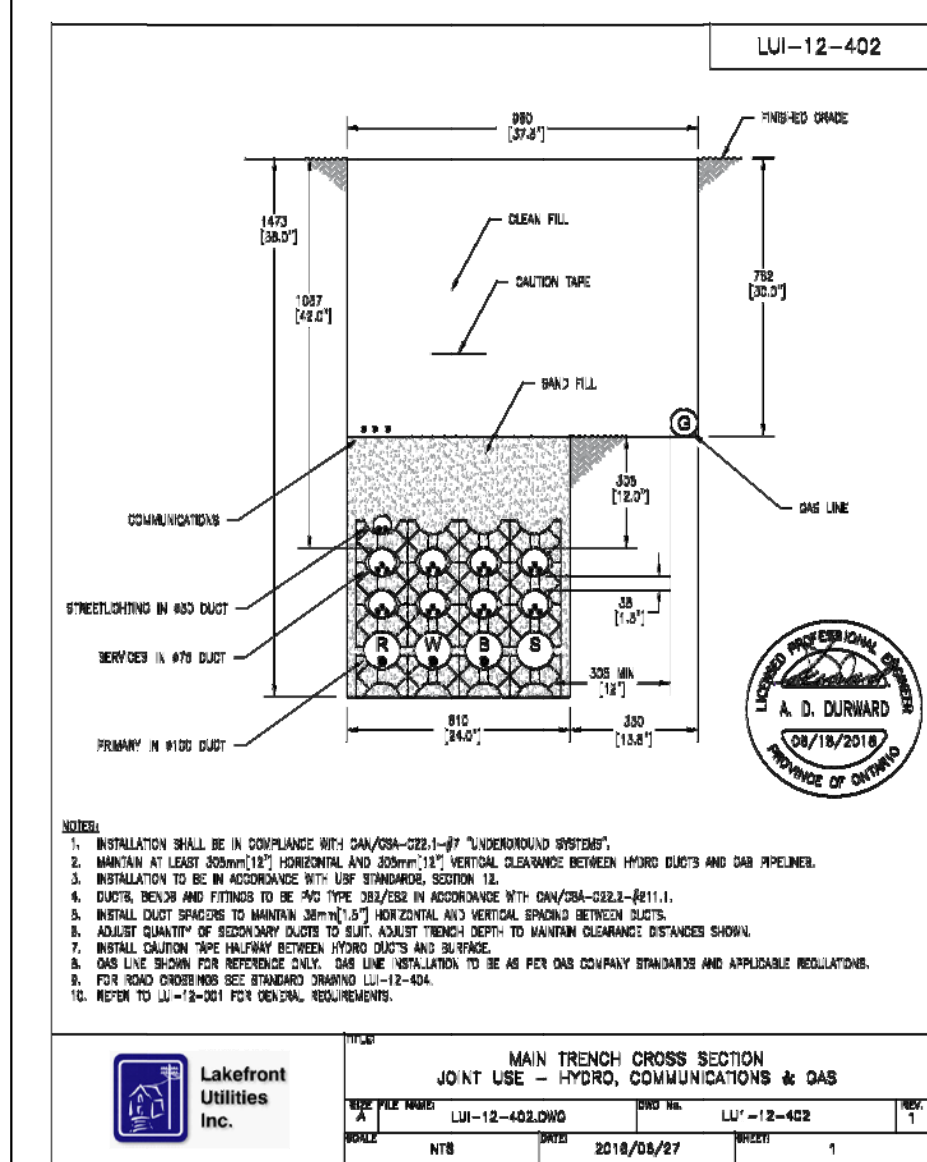
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3	DUCT, 12" x 12"	1	BRICKMAN	2011499	WAL-0002
4	DUCT, 12" x 12"	1	BRICKMAN	2011499	WAL-0002
5	DUCT, 12" x 12"	1	BRICKMAN	2011499	WAL-0002
6	DUCT, 12" x 12"	1	BRICKMAN	2011499	WAL-0002
7	DUCT, 12" x 12"	1	BRICKMAN	2011499	WAL-0002
8	DUCT, 12" x 12"	1	BRICKMAN	2011499	WAL-0002



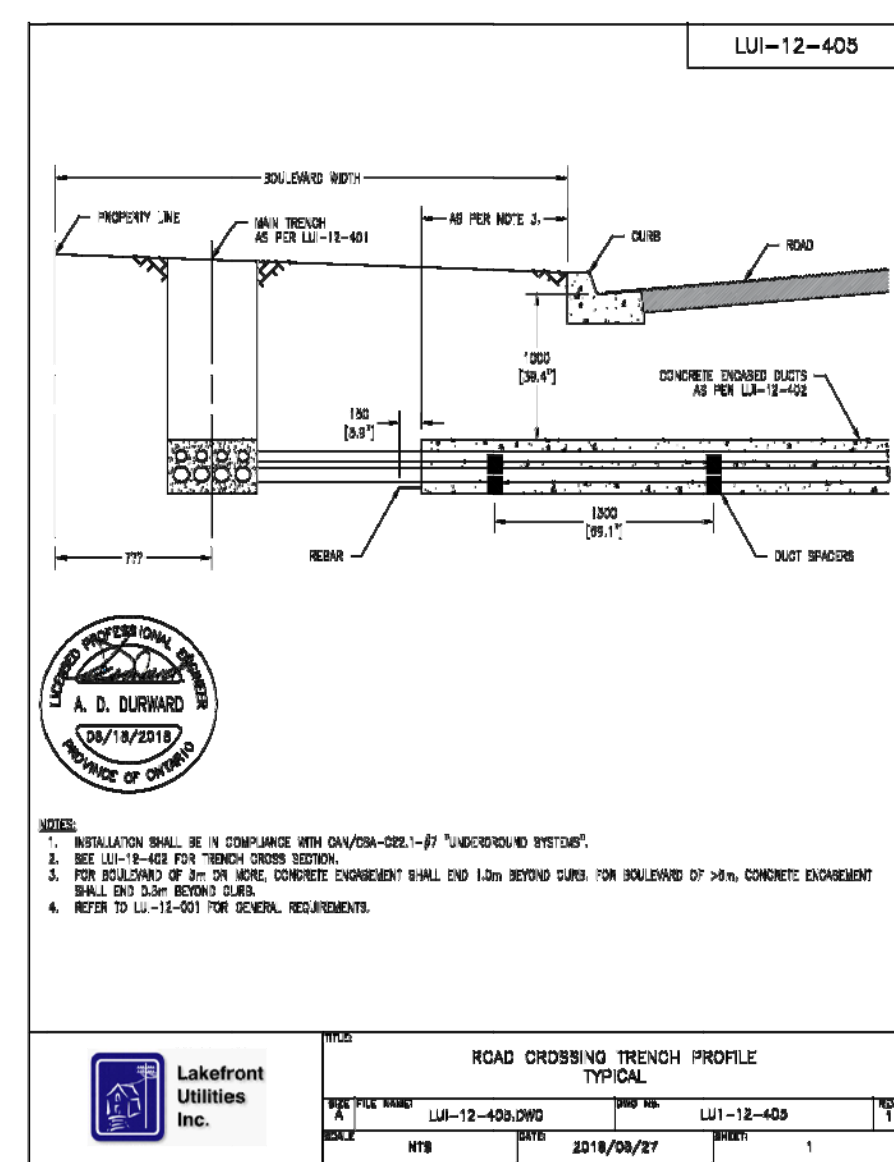
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7	DUCT, 12" x 12"	1	BRICKMAN	2011499	WAL-0002
8	DUCT, 12" x 12"	1	BRICKMAN	2011499	WAL-0002



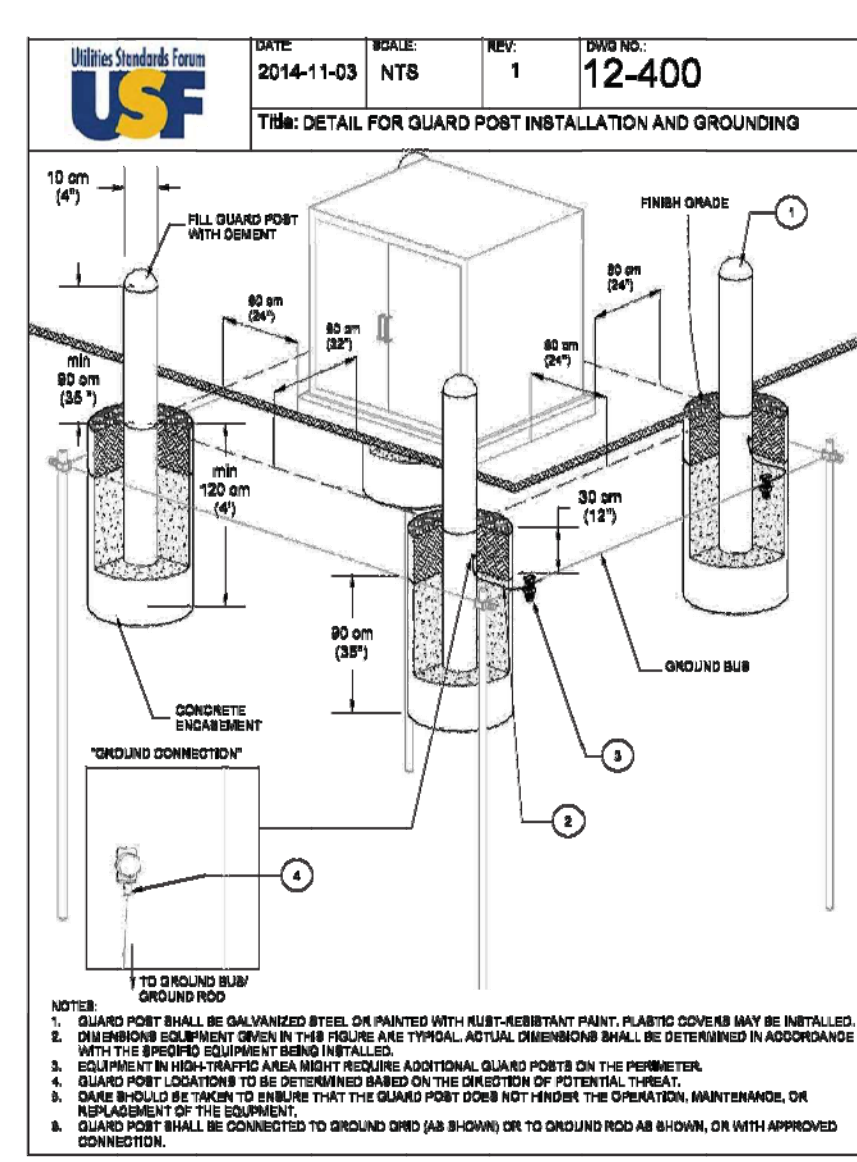
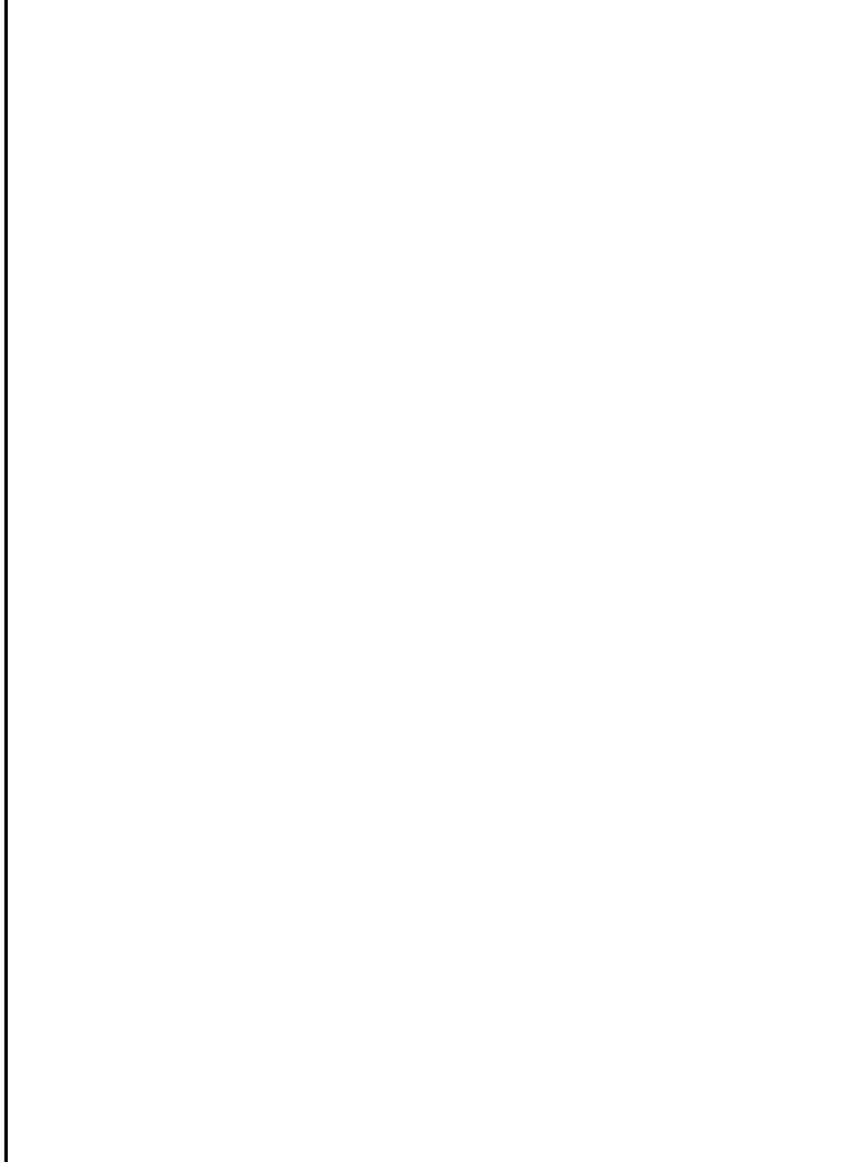
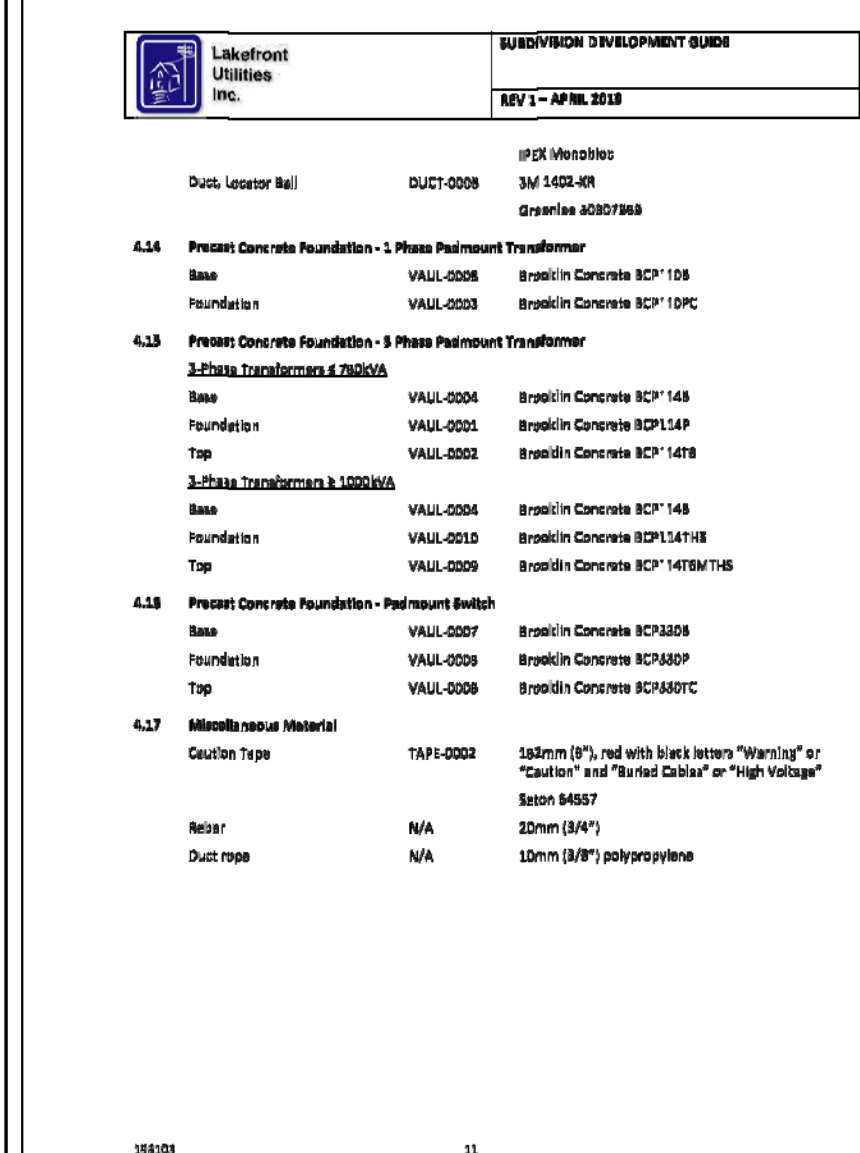
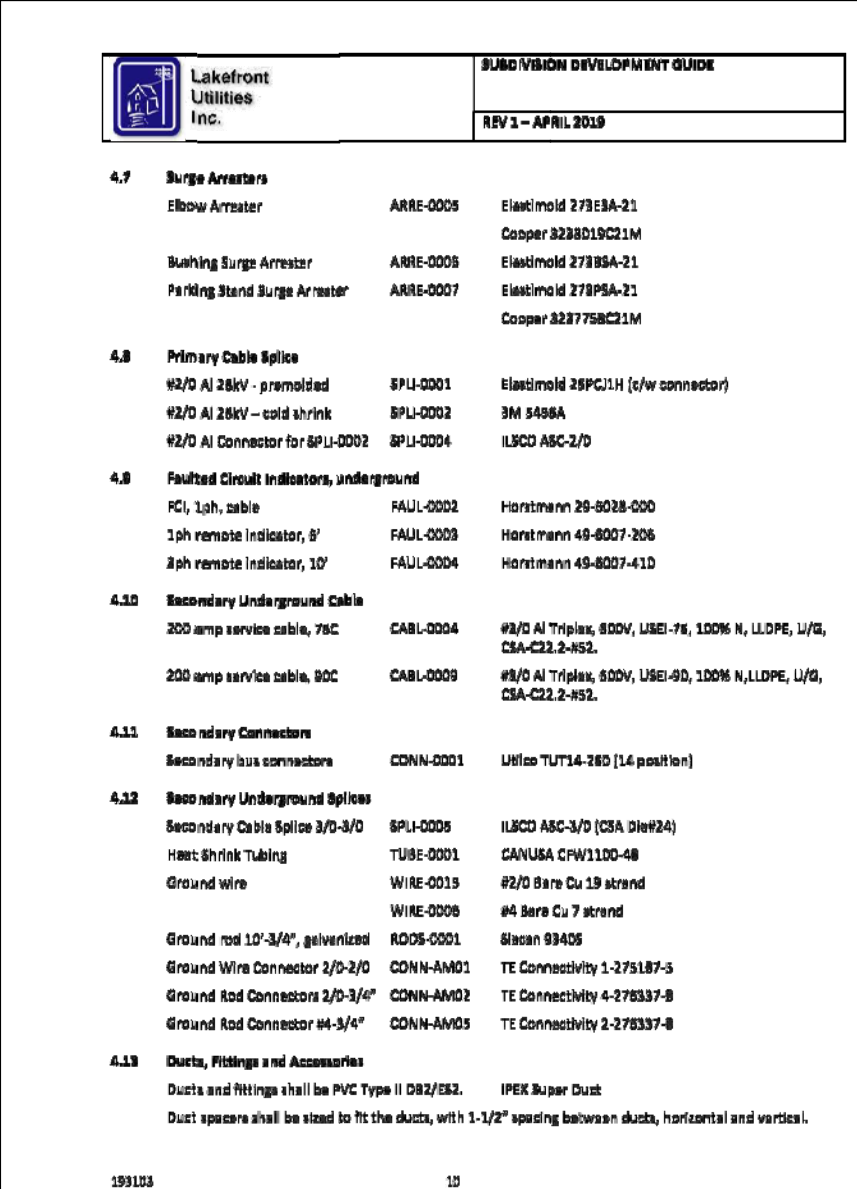
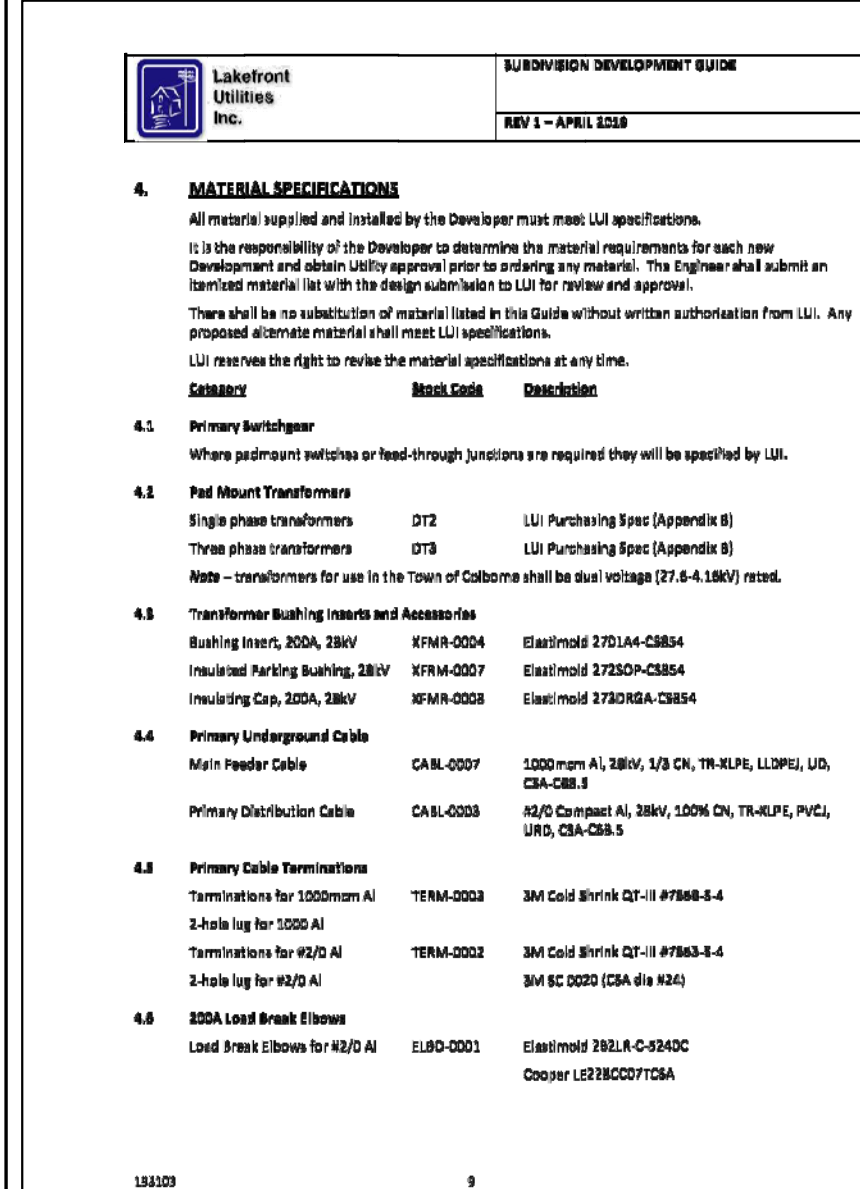
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NO.	DATE	DESCRIPTION	BY
1	11/10/20	REVISED FOR SPA COMMENTS	M.S.B.
2	06/19/20	REVISED FOR SPA	M.S.B.
3	10/21/19	ISSUED FOR PERMIT	M.S.B.

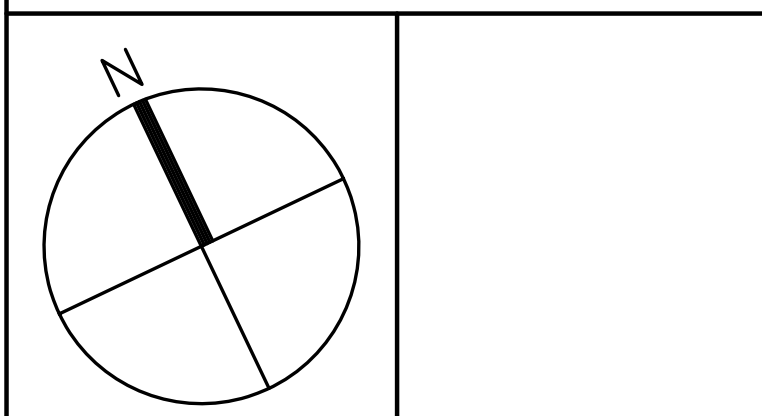
MARK VOID ALL PRINTS DATED PREVIOUS TO FINAL DATE ABOVE

REVISIONS

CLIENT:

PROJECT NAME:
New Service

PROJECT ADDRESS:
428 & 432 King Road
Cobourg, ON



MSBA
MS BHARAJ & ASSOCIATES
DESIGN | ENGINEERING
23-6033 Shawson Dr., Mississauga, ON L5T 1H8
Tel: 647 297 7668 | msbharaj@gmail.com

PROJECT TITLE:

LUI
DETAILS & SPEC

DESIGN:	M.S.B.	PROJECT NUMBER:	1914
DRAWN BY:	T.S.	SCALE:	NTS
CHECKED BY:	M.S.B.	DRAWING NUMBER:	E-5
DATE:	November, 2020		