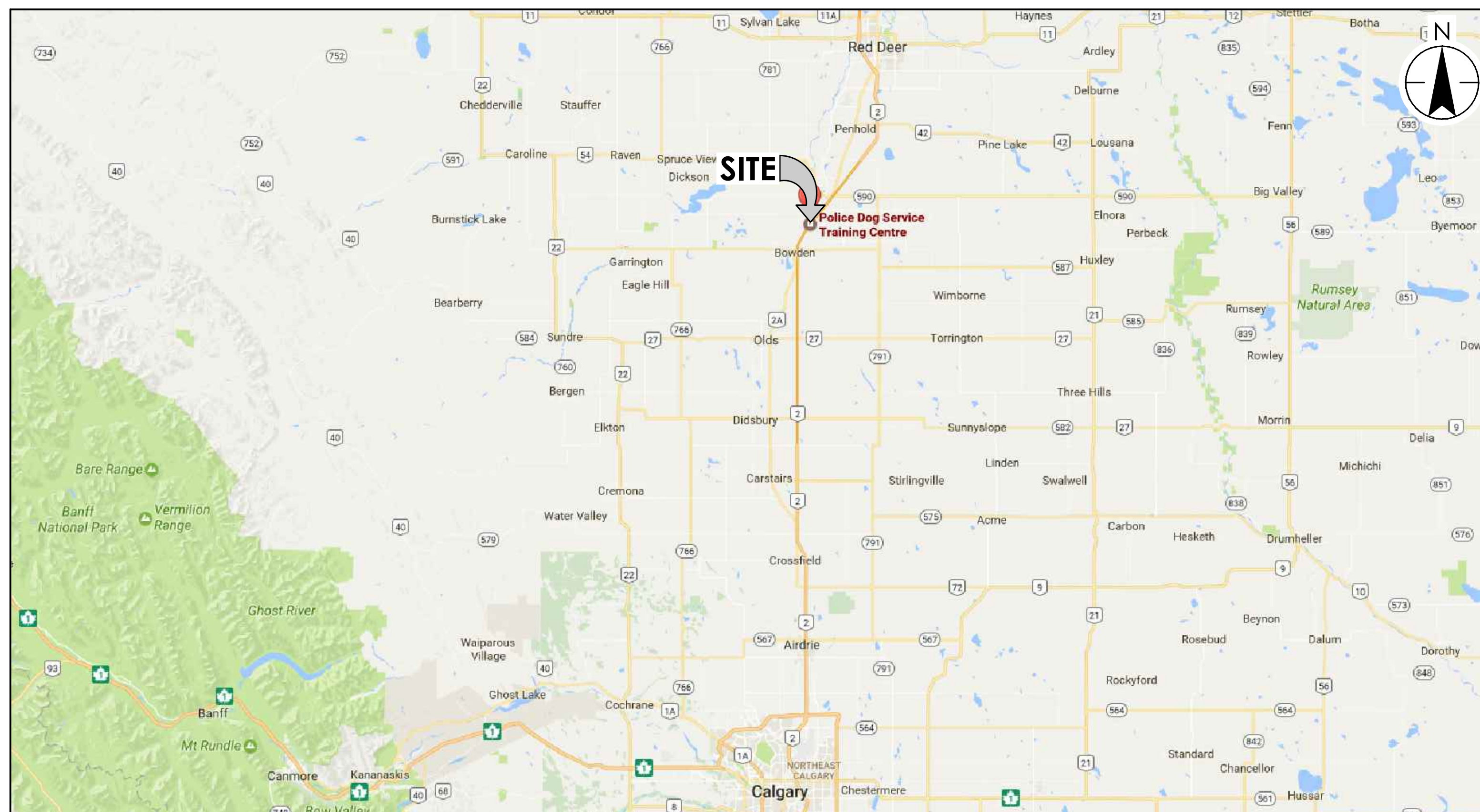




DRAWING INDEX MAP

NTS



VICINITY MAP

NTS

PROJECT TEAM

LANDSCAPE ARCHITECT:
 STANTEC CONSULTING LTD.
 #200, 325-25TH STREET SE
 CALGARY, ALBERTA T2A 7H8
 TEL: 403-716-8000

CONTACT: SAME AS LA STAMP

DRAWING HISTORY

ISSUED FOR:	DATE
CLIENT REVIEW	2017.04.19
TENDER	2017.06.27

BASE INFORMATION

ENGINEERING/ARCHITECTURE BASE SOURCE:
 GOVERNMENT OF CANADA SITE SERVICES
 DATE: 2016

GEOMATICS BASE SOURCE:
 GOVERNMENT OF CANADA SITE SERVICES
 DATE: 2016

DRAWING LIST

- L100 COVER SHEET
- L101 MATERIAL SCHEDULES AND NOTES
- L102 EXISTING CONDITIONS AND DEMO PLAN
- L201 HARDSURFACE LAYOUT PLAN
- L301 PLANTING PLAN
- L401 DETAILS
- E100 OVERALL SITE PLAN
- E200 POWER AND LIGHTING LAYOUT
- E300 ELECTRICAL SPECIFICATIONS

PROPERTY DESCRIPTION

ADDRESS:

GOVERNMENT OF CANADA
 POLICE DOG SERVICE TRAINING CENTRE
 HWY 2, INNISFAIL, AB T4G 1S8



DOG TRAINING FACILITY: MEMORIAL AND DEMONSTRATION AREAS PHASE 1

POLICE DOG SERVICE TRAINING CENTRE
 HWY 2, INNISFAIL, AB T4G 1S8

L100 - COVER SHEET

ISSUED FOR TENDER

PROJECT NUMBER: 1165 00398
 JUNE 27, 2017

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GENERAL NOTES

GENERAL NOTES ARE SUBJECT TO DRAWING NOTES.
 CONTRACTOR IS RESPONSIBLE TO CONFIRM THE LOCATION OF ALL UTILITIES ON SITE PRIOR TO CONSTRUCTION.
 CONFIRM ALL CONDITIONS AND DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORK.
 ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
 WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
 THE EXISTING SUBGRADE CONDITIONS MUST BE REVIEWED BY QUALIFIED GEOTECHNICAL PERSONNEL IN ORDER TO CONFIRM DESIGN ASSUMPTIONS. PROOF-ROLLING THE EXISTING SUBGRADE WILL BE REQUIRED TO IDENTIFY SOFT AREAS, AND REPAIR ON ANY SOFT AREAS. PROOF-ROLLING MUST BE DONE UNDER THE SUPERVISION OF QUALIFIED GEOTECHNICAL PERSONNEL. SUBGRADE CONDITIONS MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF ADDITIONAL GRANULAR FILL AND ASPHALT.
 ALL IMPORTED MATERIALS MUST BE TESTED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO DELIVERY TO SITE.
 REFER TO GEOTECHNICAL LETTER REPORT FOR FURTHER DESIGN DETAILS.

LAYOUT NOTES

LAYOUT NOTES ARE SUBJECT TO DRAWING NOTES.
 STAKE LAYOUT (E.G. PATHS, WALLS, FORM WORK, ROCK WORK, FURNITURE AND PLANTING) FOR APPROVAL BY STANTEC BEFORE CONSTRUCTION. STANTEC REQUIRES 48 HOURS NOTIFICATION PRIOR TO INSPECTION.
 REQUEST FOR ALTERNATES MUST BE SUBMITTED TO STANTEC PRIOR TO BID SUBMISSION. REQUESTED ALTERNATES MUST CONFORM TO SPECIFIED MATERIALS AND REQUIRES APPROVAL BY STANTEC AND THE OWNER FOR ACCEPTANCE.
 CHANGES TO PLANTING LOCATIONS ARE TO BE NOTED ON A RECORD DRAWING AND SUBMITTED TO OWNER WITHIN 30 DAYS OF ISSUANCE OF CONSTRUCTION COMPLETION.
 ALL ROCKS/BOULDERS TO BE HAND SELECTED AND FREE OF ANY SPALLING, CRACKS, CREVICES, OR SPLINTERS.
 INSTALL FURNITURE AS PER MANUFACTURER'S SPECIFICATIONS.
 SET ALL TRASH RECEPTACLES A MINIMUM OF 1.0m BACK FROM THE EDGE OF PATHWAY.
 ALL ROAD/PATHWAY CONSTRUCTION TO FOLLOW GEOTECH RECOMMENDATIONS.

GRADING NOTES

GRADING NOTES ARE SUBJECT TO DRAWING NOTES.
 ESTABLISH POSITIVE DRAINAGE THROUGHOUT THE SITE.
 SOFT LANDSCAPE AREAS SHALL HAVE A GRADIENT NO LESS THAN 2.0% AND NO MORE THAN 33%.
 PATHWAYS AND HARD SURFACE AREA GRADIENTS SHALL NOT EXCEED 8%, UNLESS APPROVED IN WRITING BY STANTEC.
 IF GRADES WITHIN THE DRIPLINE OF AN EXISTING TREE ARE TO BE CHANGED, THE CONTRACTOR SHALL BE REQUIRED TO CONTACT STANTEC PRIOR TO GRADING WITHIN THE DRIPLINE SO THAT PRECAUTIONS TO PRESERVE THE TREE CAN BE DETERMINED. CHANGE TO GRADES WITHIN THE DRIPLINE REQUIRES APPROVAL PRIOR TO THE START OF THE WORK.
 NEW CULVERT SIZING AND INSTALLATION DETAILS TO BE PROVIDED IN THE FORM OF A STAMPED SHOP DRAWING PRIOR TO NEW CONSTRUCTION OF FEATURE.

PLANTING NOTES

PLANTING NOTES ARE SUBJECT TO DRAWING NOTES.
 ALL PLANT MATERIAL MUST MEET THE SPECIFICATIONS SET OUT IN THE LATEST GUIDE SPECIFICATIONS FOR NURSERY STOCK PREPARED BY THE CNTA AND ISA.
 DECIDUOUS TREE SETBACKS (MINIMUM DIMENSIONS):
 - 2.5m FROM HYDRANTS
 - 4.0m FROM STREET LIGHTING
 - 3.5m FROM TRANSFORMERS
 - 4.0m FROM BUS STOPS
 - 4.5m FROM ISLAND BULLNOSES
 - 2.5m FROM CURB STOPS
 CONIFEROUS TREE SETBACKS (MINIMUM DIMENSIONS):
 - 3.0m FROM HYDRANTS
 - 4.0m FROM STREET LIGHTING
 - 3.5m FROM TRANSFORMERS
 - 4.0m FROM BUS STOPS
 - 4.5m FROM ISLAND BULLNOSES
 - 3.0m FROM CURB STOPS
 THE EXACT LOCATION OF TREES SHALL BE DETERMINED ON SITE/FIELD FIT AND SHALL BE SUBJECT TO DRIVEWAY LOCATIONS, SERVICING, STREET LIGHTING AND OTHER FURNISHINGS WHERE APPLICABLE.
 CHANGES TO PLANTING LOCATIONS: SEE LAYOUT NOTES.
 TREES PLANTED 3.5m OR LESS FROM FENCE LINES SHALL BE BEDDED.
 BEDS AND TREE WELLS TO BE RE-MULCHED JUST PRIOR TO FINAL ACCEPTANCE.
 PLANT MATERIAL MAINTENANCE: ONE (1) YEAR FROM CONSTRUCTION COMPLETION.
 PLANT MATERIAL AT TIME OF FINAL ACCEPTANCE: SHALL BE HEALTHY AND HAVE VIGOROUS GROWTH.
 PLANT MATERIAL SHALL BE MAINTAINED BY THE CONTRACTOR AS OUTLINED UNTIL THE DATE OF ISSUE OF FINAL ACCEPTANCE.

DEMOLITION NOTES

ALL ACCUMULATED SEDIMENT AND DEBRIS SHOULD BE REMOVED AS REQUIRED. ONCE CONSTRUCTION ACTIVITIES ARE COMPLETE, ALL RELATED MATERIALS AND TEMPORARY STRUCTURES SHOULD BE REMOVED AND PROPERLY DISPOSED OF.
 ALL EXCAVATED MATERIALS TO BE DISPOSED OF OFF SITE. ASPHALT AND CONCRETE MATERIALS TO BE DISPOSED OF AT AN APPROVED RECYCLE FACILITY. CONTAMINATED FILL MATERIALS TO BE DISPOSED OF AT AN APPROVED FACILITY.
 IF DURING DEMOLITION/ EXCAVATION ANY OBJECTS, NON-NATIVE, ARTIFACT ETC. ARE UNCOVERED, STOP WORK AND NOTIFY THE CLIENT SO THAT A HUMAN RESOURCE CONSULTANT CAN INVESTIGATE.
 PRESERVE AND PROTECT ITEMS IDENTIFIED "TO REMAIN".
 REMOVE PLANT MATERIAL INSIDE "LIMITS OF GRADING" UNLESS OTHERWISE NOTED.
 REQUIRED CONSTRUCTION THAT IS OUTSIDE OF THE LIMITS OF GRADING IS TO BE REVIEWED AND APPROVED BY STANTEC PRIOR TO CONSTRUCTION. CONTRACTOR IS TO REHABILITATE ALL AREAS DAMAGED DURING CONSTRUCTION.
 EXISTING CONCRETE AND ASPHALT PILES AND FOUNDATIONS ARE TO BE REMOVED 150mm BELOW GRADE AND COVERED WITH TOPSOIL AND SEED/SOD.
 CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL EXISTING UTILITIES ARE NOT DAMAGED DURING CONSTRUCTION. ALL MARKED AND LOCATED LINES SHALL BE HYDROVACUED TO ENSURE NO DAMAGE TO EXISTING LINES.

GOOD HOUSEKEEPING PRACTICES

GOOD HOUSEKEEPING PRACTICES WILL HELP MINIMIZE EROSION AND SEDIMENT CONCERNS. GOOD HOUSEKEEPING PRACTICES THAT WILL BE IMPLEMENTED ON SITE ARE AS FOLLOWS:
 STOCKPILES SHOULD BE LOCATED AWAY FROM WATERCOURSES, ENVIRONMENTALLY SENSITIVE AREAS, DRAINAGE COURSES, RAVINES, AND EXISTING ADJACENT DEVELOPMENTS. THE STOCKPILES SHOULD BE STABILIZED AGAINST EROSION IMMEDIATELY FOLLOWING STRIPPING OPERATIONS. STABILIZATION CAN INCLUDE, BUT IS NOT LIMITED TO, ESTABLISHMENT OF A COVER CROP OR A HYDROSEED MATRIX, CONSISTING OF SEED, FIBER BOND, AND TACKIFIER.
 ALL CONSTRUCTION VEHICLES SHOULD LEAVE THE SITE AT A DESIGNATED POINT OR POINTS. GRAVELLING OR PAVING (WHERE PRACTICAL) OF FREQUENTLY USED ACCESS ROADS WILL HELP ENSURE THAT MINIMAL MATERIAL SUCH AS MUD IS TRACKED OFF-SITE. THE ACCESS ROAD SHOULD CONSIST OF A BED OF NON-ERODABLE MATERIAL (I.E. GRAVEL) OF SUFFICIENT LENGTH TO ENSURE THAT A MINIMUM OF MATERIAL (MUD) IS TRACKED OFFSITE ONTO ADJACENT MUNICIPAL STREETS. INTERNAL HAUL ROADS AND/OR TRACK PACKS CAN ALSO BE DESIGNATED AND MAINTAINED TO HELP REDUCE OFFSITE TRACKING. IN SITUATIONS WHERE MUD TRACKING BECOMES A MAJOR PROBLEM, A HIGH-PRESSURE PUMP AND HOSE INSTALLATION MAY BE USED TO PROVIDE A WASHDOWN FACILITY FOR TRUCK WHEELS.
 WHEN SEWERS HAVE BEEN INSTALLED OR ARE EXISTING, MEASURES SHOULD BE UNDERTAKEN TO ENSURE SEDIMENT AND DEBRIS DOES NOT GET INTO THE MUNICIPAL SEWER SYSTEM, THIS INCLUDES ADJACENT DITCHES, SWALES, AND AGRICULTURAL FIELDS. BOTH CATCH BASINS AND MANHOLES SHOULD BE PROTECTED. THIS MAY BE ACCOMPLISHED BY SEALING OPENINGS, SETTING UP SUMPS OR WEIRS INSIDE THE STRUCTURES OR BY PROVIDING APPROPRIATE INLET PROTECTION (FILTER FENCES, SEDIMENT TRAPS, ETC.). A TEMPORARY DRAINAGE SYSTEM SHOULD BE USED WITH APPROPRIATE VELOCITY CONTROLS AND TEMPORARY STORAGE AREAS FOR SEDIMENT CONTROL. THIS WILL ENSURE THAT SEDIMENT AND DEBRIS DO NOT GET INTO THE MUNICIPAL SEWER SYSTEM AND INTO THE DOWNSTREAM WATERWAYS. DILIGENT EFFORTS MUST BE UNDERTAKEN TO ENSURE THAT THE TEMPORARY DRAINAGE SYSTEM DOES NOT FLOOD ADJACENT PROPERTIES.
 WHERE ON-SITE OR DOWNSTREAM DETENTION FACILITIES ARE PROVIDED, USE CAN BE MADE OF A QUANTITY CONTROL FACILITY (THROUGH THE PLACING OF TEMPORARY WEIRS OR CHECK DAMS) FOR SEDIMENT CONTROL DURING CONSTRUCTION. APPROVAL OF QUALITY CONTROL BEYOND THE LIMIT OF CONSTRUCTION MUST BE PROVIDED BY CONTRACT ADMINISTRATOR.
 DUST CONTROL MEASURES SHOULD BE IMPLEMENTED TO PREVENT WIND TRANSPORTATION OF DUST FROM DISTURBED SOIL SURFACES. THIS MAY BE ACCOMPLISHED SEVERAL WAYS. VEGETATE, HYDROSEED, OR MULCH AREAS THAT WON'T RECEIVE VEHICLE TRAFFIC. OTHERWISE CONSTRUCT WIND BREAKS OR SCREENS. THE SITE MAY ALSO BE SPRINKLED WITH WATER OR A CHEMICAL DUST SUPPRESSANT TO CONTROL DUST; HOWEVER, CARE MUST BE TAKEN TO PREVENT THE TRACKING OF MUD AS A RESULT. OTHERWISE, ANOTHER EFFECTIVE TOOL IS TO REDUCE VEHICLE SPEEDS TO DECREASE THE AMOUNT OF DUST STIRRED UP.

TREE PRESERVATION NOTES

PRIOR TO CONSTRUCTION, STANTEC IS TO IDENTIFY TREES FOR PRESERVATION AND/OR REMOVAL. NO EXISTING TREE ARE TO BE REMOVED UNTIL DIRECTED BY STANTEC.
 ALL EXISTING TREES WITHIN 4m OF DISTURBANCE LISTED TO REMAIN ARE TO BE PROTECTED WITH TEMPORARY TREE PROTECTION FENCING CONSISTING OF 1.5m HIGH ORANGE PLASTIC CONSTRUCTION FENCE MOUNTED ON STEEL T-BARS @ 1.5m O.C. DRIVEN INTO GROUND A MINIMUM OF 0.6m. THE TREE PRESERVATION ZONE (TPZ) WILL BE A MINIMUM DISTANCE OF 4m FROM THE TRUNK OF THE TREE OR TO THE DRIPLINE, WHICHEVER IS GREATER. THE CANOPY OF THE TREE SHALL BE PROTECTED TO THE DRIPLINE.
 PROTECTIVE BARRIER FENCING WILL REMAIN STANDING AND IN GOOD CONDITION UNTIL CONSTRUCTION COMPLETION.
 PROTECTIVE FENCE IS TO BE INSTALLED PRIOR TO DEMOLITION OR OTHER SITE WORK AND MAINTAINED THROUGHOUT CONSTRUCTION UNTIL LANDSCAPE CONSTRUCTION IS FINISHED.
 AREAS WITHIN THE DRIPLINE OF THE TREES ARE NOT TO BE USED FOR ANY TYPE OF STORAGE (E.G. STORAGE OF DEBRIS, SURPLUS SOILS, VEHICLE PARKING). DO NOT PERFORM TRENCHING OR TUNNELING FOR UNDERGROUND SERVICES WITHIN THE DRIPLINE OF TREES DESIGNATED FOR PRESERVATION, UNLESS OTHERWISE SPECIFIED.
 TREES SHALL NOT HAVE ANY RIGGING CABLES OR HARDWARE OF ANY KIND ATTACHED OR WRAPPED AROUND THEM, NOR SHALL ANY CONTAMINANTS BE DUMPED WITHIN THE PROTECTIVE AREAS. DO NOT DISPOSE OF CONTAMINANTS WHERE THEY MAY COME INTO CONTACT WITH THE FEEDER ROOTS OF THE TREES.
 THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO PROTECT PLANT AND ROOT SYSTEMS FROM DAMAGE, COMPACTION AND CONTAMINATION RESULTING FROM THE CONSTRUCTION TO THE SATISFACTION OF STANTEC.
 IN THE EVENT THAT IT IS NECESSARY TO REMOVE LIMBS OR PORTIONS OF TREES TO ACCOMMODATE CONSTRUCTION, STANTEC IS TO BE INFORMED AND THE REMOVAL IS TO BE EXECUTED CAREFULLY AND IN ACCORDANCE WITH PROPER ARBORICULTURAL TECHNIQUES BY A CERTIFIED ARBORIST. APPROVAL IS REQUIRED PRIOR TO REMOVAL OPERATIONS.
 DURING EXCAVATION OPERATIONS IN WHICH ROOTS ARE AFFECTED, THE CONTRACTOR IS TO PRUNE ALL EXPOSED ROOTS CLEANLY. PRUNED ENDS TO POINTED OBLIQUELY DOWNWARDS. DO NOT ALLOW EXPOSED ROOTS TO DRY OUT. THE CONTRACTOR SHALL DISCUSS WATERING OF THE ROOTS WITH THE OWNER AND STANTEC SO THAT OPTIMUM SOIL MOISTURE IS MAINTAINED DURING CONSTRUCTION AND BACK FILLING OPERATIONS, SO AS NOT TO INTERFERE WITH CONSTRUCTION OPERATIONS.
 IF GRADES WITHIN THE DRIPLINE OF AN EXISTING TREE ARE TO BE CHANGED REFER TO GRADING NOTES.
 TREE PROTECTION ZONES WILL BE IDENTIFIED BY CONTRACTOR AND VERIFIED IN FIELD BY CONSULTANT AND FENCED.
 ALL SUPPORTS, BRACING AND PROTECTIVE FENCING WILL BE LOCATED OUTSIDE OF THE TPZ. ALL SUPPORTS AND BRACING SHALL MINIMIZE DAMAGE TO TREE ROOTS OUTSIDE OF THE TPZ. NO DISPOSAL OF LIQUIDS SHALL OCCUR WITHIN THE TPZ.
 THERE WILL BE NO ACCESS FOR VEHICLES, EQUIPMENT, OR PEDESTRIANS THROUGH THE TPZ UNLESS EXPRESSLY PERMITTED FOR THE MAINTENANCE OF TREES WITHIN THE TPZ.

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	QTY
	1 ASPHALT	1,512 m ²
	2 GRAVEL ROADWAY	6,598 m ²
	3 CONCRETE SIDEWALK	638 m ²
	4 EXISTING SURFACE MOUNTED PICNIC TABLE	4
	5 EXISTING CONCRETE MEMORIAL BENCH	2
	6 EXISTING HASSELFIELD TABLE	1
	7 EXISTING CEMETARY MARKERS	22
	8 EXISTING MEMORIAL ROCK	1
	9 EXISTING MEMORIAL DONOR SIGN	1
	10 EXISTING MEMORIAL HYDRANT	1
	11 EXISTING PERGOLA	1
	12 EXISTING BRONZE DOG	1
	13 EXISTING GRANDSTAND	1
	14 WASHROOMS NIC	4
	15 KIOSK NIC	1
	16 STORED MEMORIAL BENCHES	4
	17 COMMERCIAL GRADE PLANT BED EDGER	40 Lm.
	18 25mm CLASS 160 PVC IRRIGATION MAINLINE COMPLETE WITH 50mm CLASS 160 PVC SLEEVING UNDER ALL HARD SURFACE WITH 7 TURF VALVES	630 Lm.
	19 ELECTRICAL LINE	55 Lm.
	20 WOOD CHIP MULCH	161 m ²
	21 CONCRETE CURB	87 Lm.
	22 FUTURE ENTRY FEATURE (NIC)	1
	23 DECORATIVE STONE MULCH	67 m ²
	24 RELOCATED FLAG POLES	3
	25 PAVING STONE - 100x200x60mm, RED IN COLOUR	50 m ²

REFERENCE NOTES SCHEDULE

SYMBOL	FENCE DESCRIPTION	QTY
	F-103 1.2m CHAINLINK FENCE AROUND DEMONSTRATION AREA WITH ONE PEDESTRIAN GATE AND ONE VEHICULAR GATE	212 Lm.
	F-104 TOPLESS GLASS RAILING SYSTEM AS SUPPLIED BY DECKVIEW GLASS AND RAILING, CALGARY AB. TELEPHONE 800-545-9201 (OR APPROVED EQUIVALENT). INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS POSTS: ROUND, ALUMINUM, FINISH: POWDER COAT, COLOUR SPARKLE SILVER, POST HEIGHT: 60 CM (24 INCHES); GLASS HEIGHT: 91 CM (36 INCHES) GLASS: 12 MM TEMPERED GLASS; POST SPACING: MAXIMUM 137 CM (54 INCHES) POST BASE: CAST IN PLACE CONCRETE PILE, 25 CM (8 INCH) DIAMETER, MINIMUM 1.0 M DEPTH BELOW GRADE, DRILL INSERTS FOR 10 CM (4.25 INCH) LONG STAINLESS STEEL BOLTS (4 PER POST). PROVIDE SPEC SHEET TO PROJECT LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALL	45 Lm.
	F-105 1.8m CHAINLINK FENCE WITH ONE LOCKABLE PEDESTRIAN GATE AND ONE LOCKABLE VEHICULAR GATE	125 Lm.

PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME / COMMON NAME	CAL
	BC	11	Betula papyrifera Clump / Paper Birch	multistem
	BP	8	Betula papyrifera / Paper Birch	65mm CAL.
	PG	21	Picea glauca / White Spruce	2.0m HT.
	PL	12	Pinus contorta latifolia / Lodgepole Pine	2.5m HT.
	PP	7	Pinus pungens 'Fat Albert' / Table Mountain Pine	2.0m HT.
	SV	20	Salix alba vitellina / Golden Willow	75mm CAL.
	UB	12	Ulmus americana 'Brandon' / Brandon Elm	75mm CAL.
SHRUBS	CODE	QTY	BOTANICAL NAME / COMMON NAME	CONT
	CB	20	Cotoneaster dammeri 'Coral Beauty' / Bearberry Cotoneaster	#5 pot
	SG	40	Spiraea x bumalda 'Goldflame' / Goldflame Spirea	#2 pot
	SM	29	Syringa patula 'Miss Kim' / Miss Kim Lilac	#5 pot
GROUND COVERS	CODE	QTY	BOTANICAL NAME / COMMON NAME	
	FS	10,182 m ²	Fescue Sod	
	NS	3,450 m ²	Native Seed Mix Kentucky Blue Grass 40% Creeping Red Fescue 45% Perennial Rye Grass 15% - Application rate to be 30g/m ² or 300kg/ha.	

Stantec Consulting Ltd.
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 Calgary, AB Canada
 T2A 7H8
 Tel. 403.714.8000
 www.stantec.com



Design with community in mind

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Revision	By	Appd.	Yr./Mm./Dd
5			
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Revision	By	Appd.	Yr./Mm./Dd
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Revision	By	Appd.	Yr./Mm./Dd
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Client/Project
 GOVERNMENT OF CANADA
 POLICE DOG TRAINING
 MEMORIAL AND DEMONSTRATION AREAS PHASE 1
 Calgary, Alberta

Permit-Seal



Date Issued
 Spencer

Project Number: 116500398
 File Name: 77216_COVER-MEMORIAL.DWG

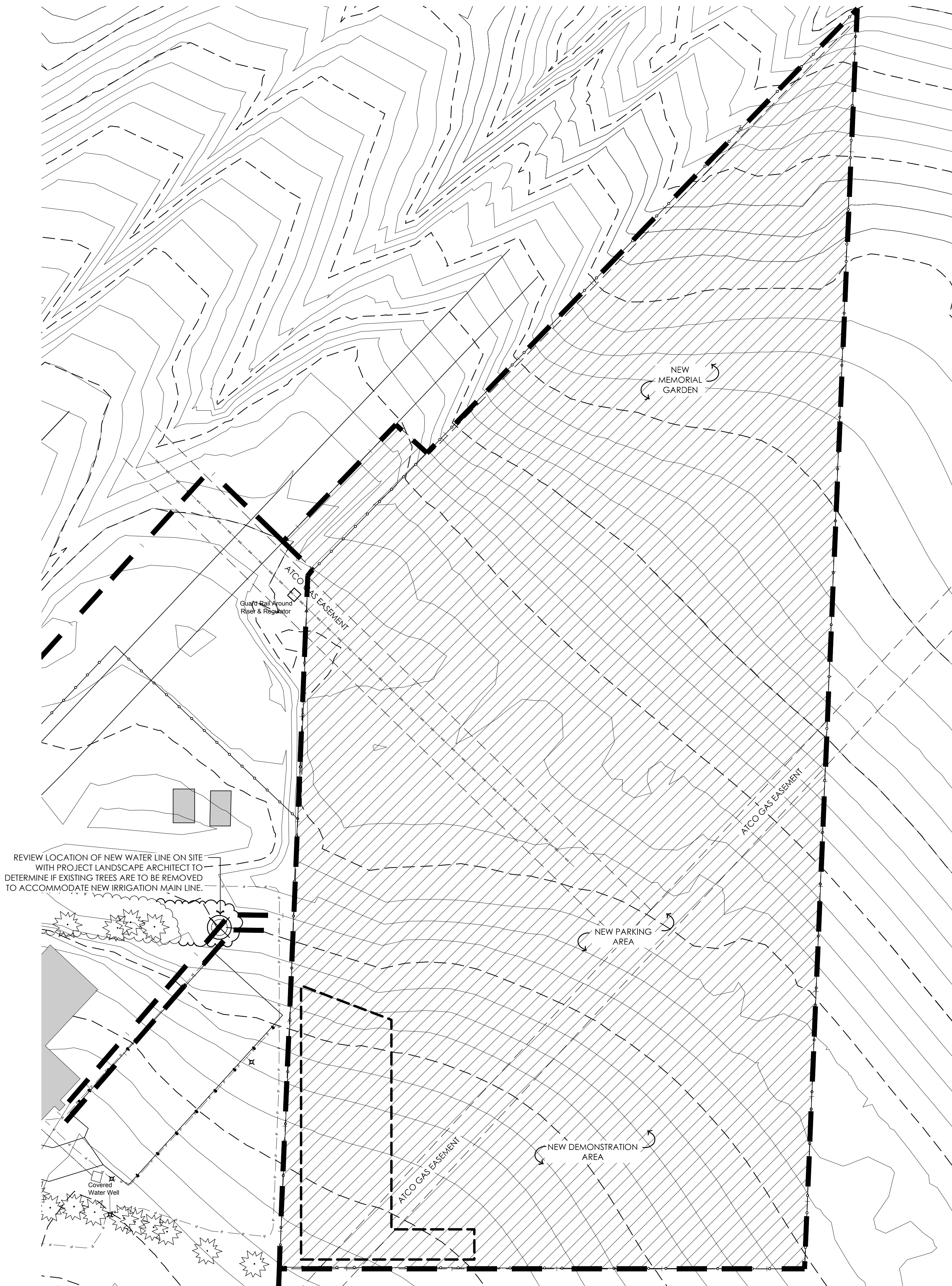
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Drawing No. L101
 Revision Sheet

ISSUED FOR TENDER

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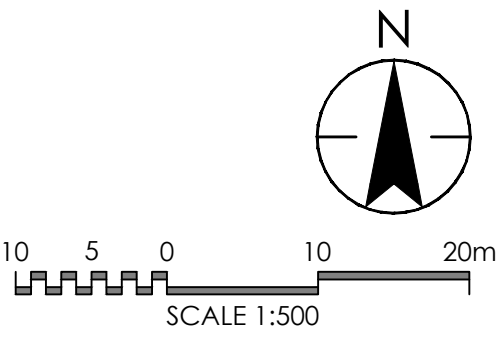
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REFERENCE NOTES SCHEDULE DEMO

SYMBOL	DEMOLITION DESCRIPTION	QTY
	CLEARING AND STRIPPING	22,661 m²
	STOCKPILE LOCATIONS	
	TREE TO BE REMOVED	

NOTE:
CONTRACTOR IS REQUIRED TO CALL ALBERTA 1 CALL PRIOR TO ANY EXCAVATION. ALL IDENTIFIED UTILITIES AND GAS LINES ARE TO BE HYDROVACUED. CONTRACTOR TO ABIDE BY ALL REQUIRED ATCO GAS COMPANY REGULATIONS WHILE PERFORMING EXCAVATION WORK.



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Revision	By	Appd.	Y/M/DD
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Revision	By	Appd.	Y/M/DD
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Client/Project
GOVERNMENT OF CANADA
POLICE DOG TRAINING MEMORIAL AND DEMONSTRATION AREAS PHASE 1
Calgary, Alberta
Title
DOG TRAINING FACILITY EXISTING CONDITIONS AND DEMO PLAN

Permit-Seal

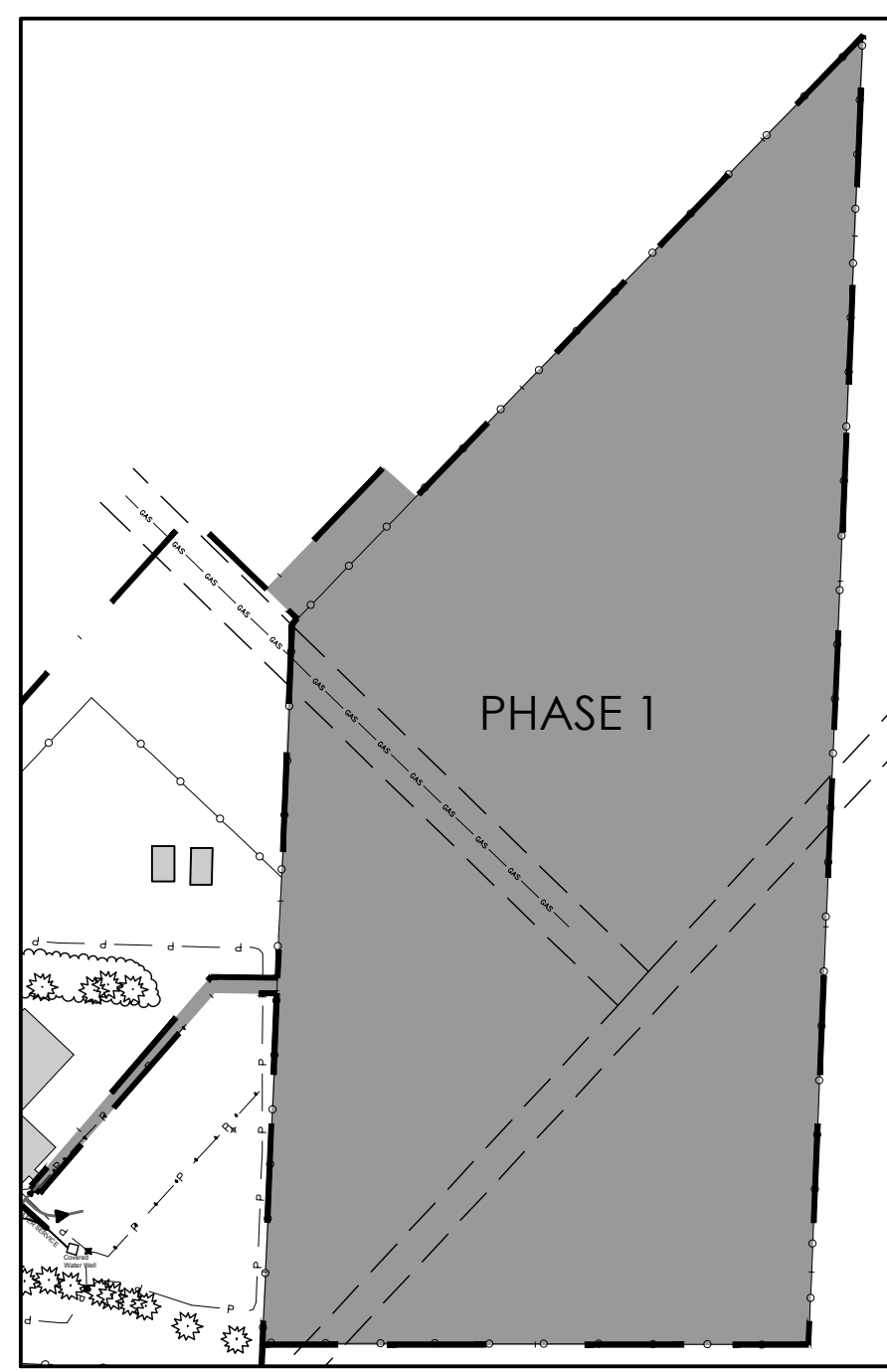
David Spencer
Date

Project Number: **116500398**
File Name: **77216_COVER-MEMORIAL.DWG**

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Dwn.	Chkd.	Dsgn.	YY/MM/DD

Drawing No. **L102**
Revision Sheet
0 of 5

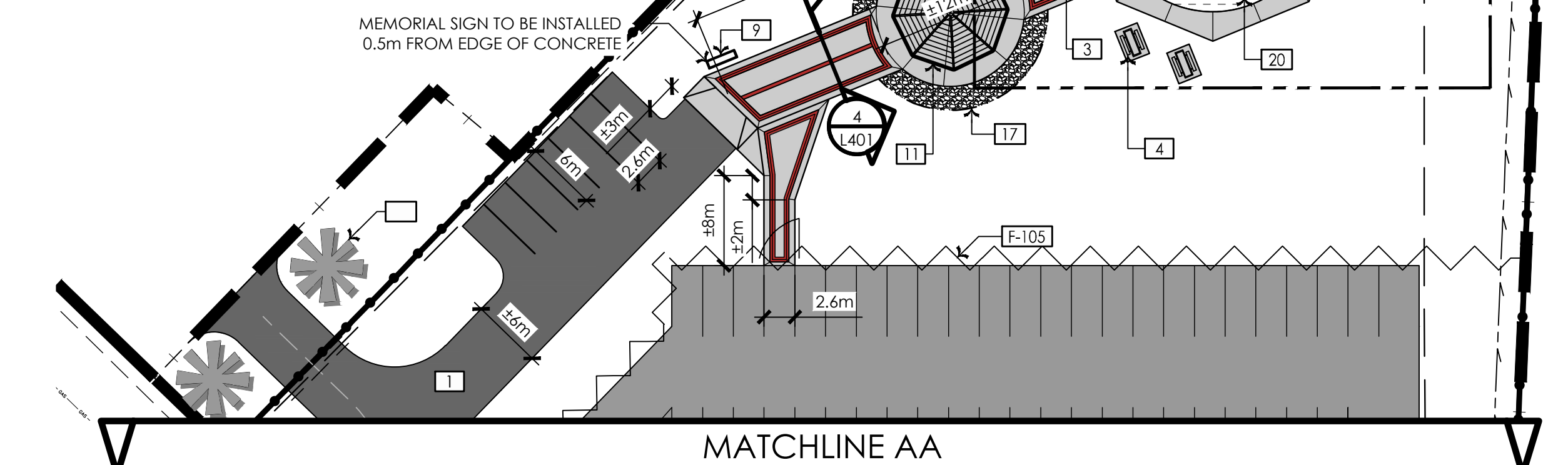
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DOUBLE SOLDIER COURSE OF RED COLOURED CONCRETE PAVER. BLOCK OUT PAVER VOIDS IN NATURAL COLOURED CONCRETE. SAW-CUTS TO BE STRAIGHT AND FREE FROM SPALLING. LINE UP SAW-CUTS ON CORNERS AND CENTRES. SAW-CUT LOCATIONS TO BE MARKED AND APPROVED BY PROJECT LANDSCAPE ARCHITECT PRIOR TO CUTTING.

75mm DEPTH DECORATIVE STONE MULCH ON FILTER FABRIC IN MULCH BED. MULCH TO EXTEND BETWEEN SHRUB BED AND EDGE OF CONCRETE. OUTSIDE EDGE TO BE FINISHED WITH COMMERCIAL GRADE PLANT BED EDGER. EDGER TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALL.

KEY PLAN (L201) 1:1500



PHASE 1 SITE WORK (L201) 1:400

REFERENCE NOTES SCHEDULE

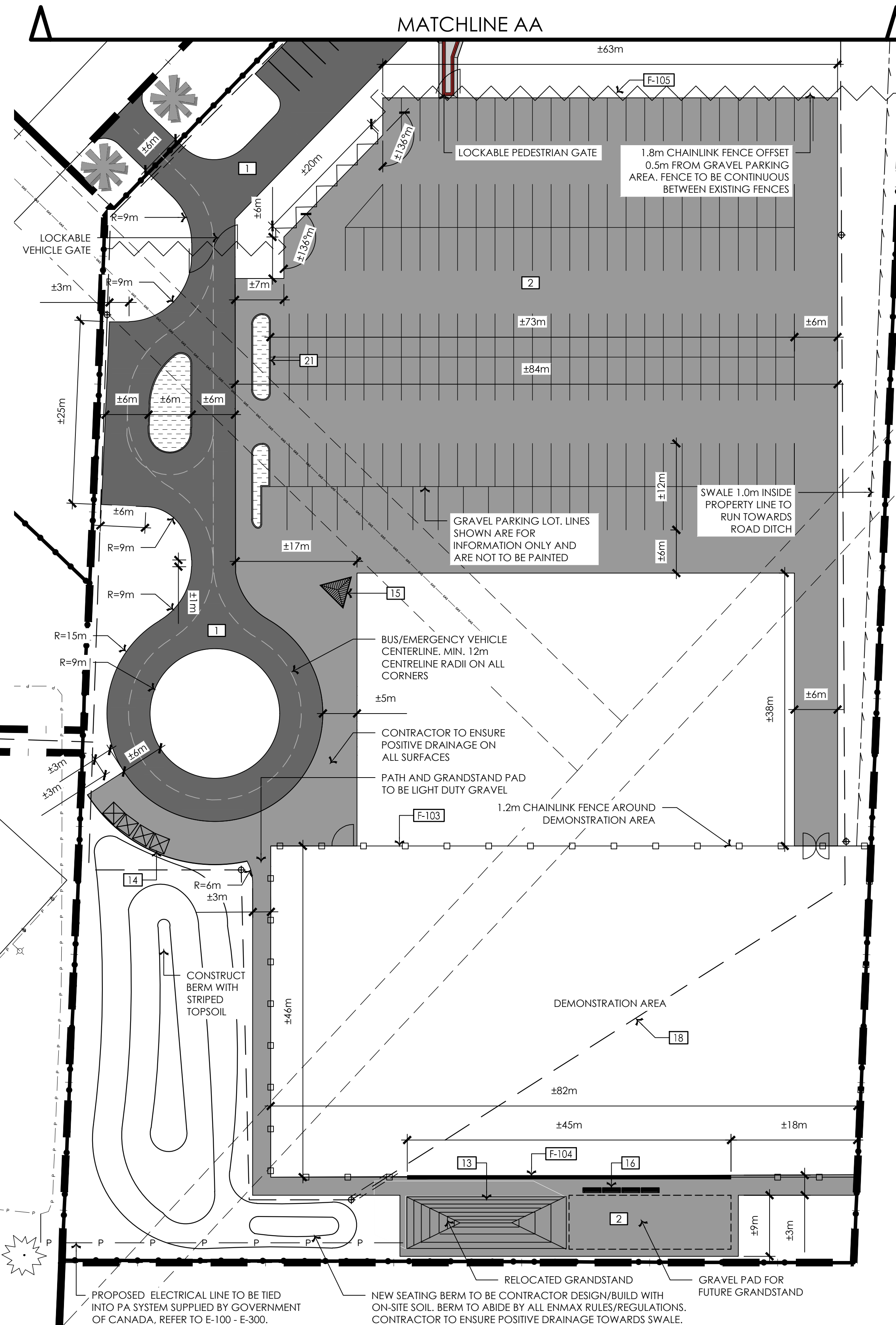
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15	KIOSK NIC	1
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25	PAVING STONE - 100x200x60mm, RED IN COLOUR	50 m ²

PHASE 1 SITE WORK (L201) 1:400

REFERENCE NOTES SCHEDULE

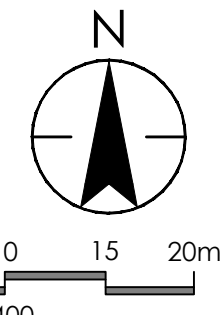
FENCE SYMBOL	DESCRIPTION	QTY
F-103	1.2m CHAINLINK FENCE AROUND DEMONSTRATION AREA WITH ONE PEDESTRIAN GATE AND ONE VEHICULAR GATE	212 Lm.
F-104	TOPLESS GLASS RAILING SYSTEM AS SUPPLIED BY DECKVIEW GLASS AND RAILING, CALGARY AB, TELEPHONE 800-545-9201 OR APPROVED EQUIVALENT), INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS POSTS: ROUND, ALUMINUM; FINISH: POWDER COAT, COLOUR SPARKLE SILVER; POST HEIGHT: 60 CM (24 INCHES); GLASS HEIGHT: 91 CM (36 INCHES) GLASS: 12 MM TEMPERED GLASS; POST SPACING: MAXIMUM 137 CM (54 INCHES) POST BASE: CAST IN PLACE CONCRETE PILE, 25 CM (8 INCH) DIAMETER, MINIMUM 1.0 M DEPTH BELOW GRADE, DRILL INSERTS FOR 10 CM (4.25 INCH) LONG STAINLESS STEEL BOLTS (4 PER POST), PROVIDE SPEC SHEET TO PROJECT LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALL	45 Lm.
F-105	1.8m CHAINLINK FENCE WITH ONE LOCKABLE PEDESTRIAN GATE AND ONE LOCKABLE VEHICULAR GATE	125 Lm.

NOTE: THE IRRIGATION MAINLINE AND TURF VALVE LOCATIONS ARE CONCEPTUAL IN NATURE AND IT IS INTENDED THAT THE IRRIGATION SYSTEM TO BE DESIGN/BUILD. SYSTEM TO USE TURF VALVES. ALTERNATIVE RECOMMENDATIONS WILL BE REVIEWED. SYSTEM DESIGN TO BE APPROVED BY CONTRACT ADMINISTRATOR PRIOR TO INSTALL.



PHASE 1 SITE WORK (L201) 1:400

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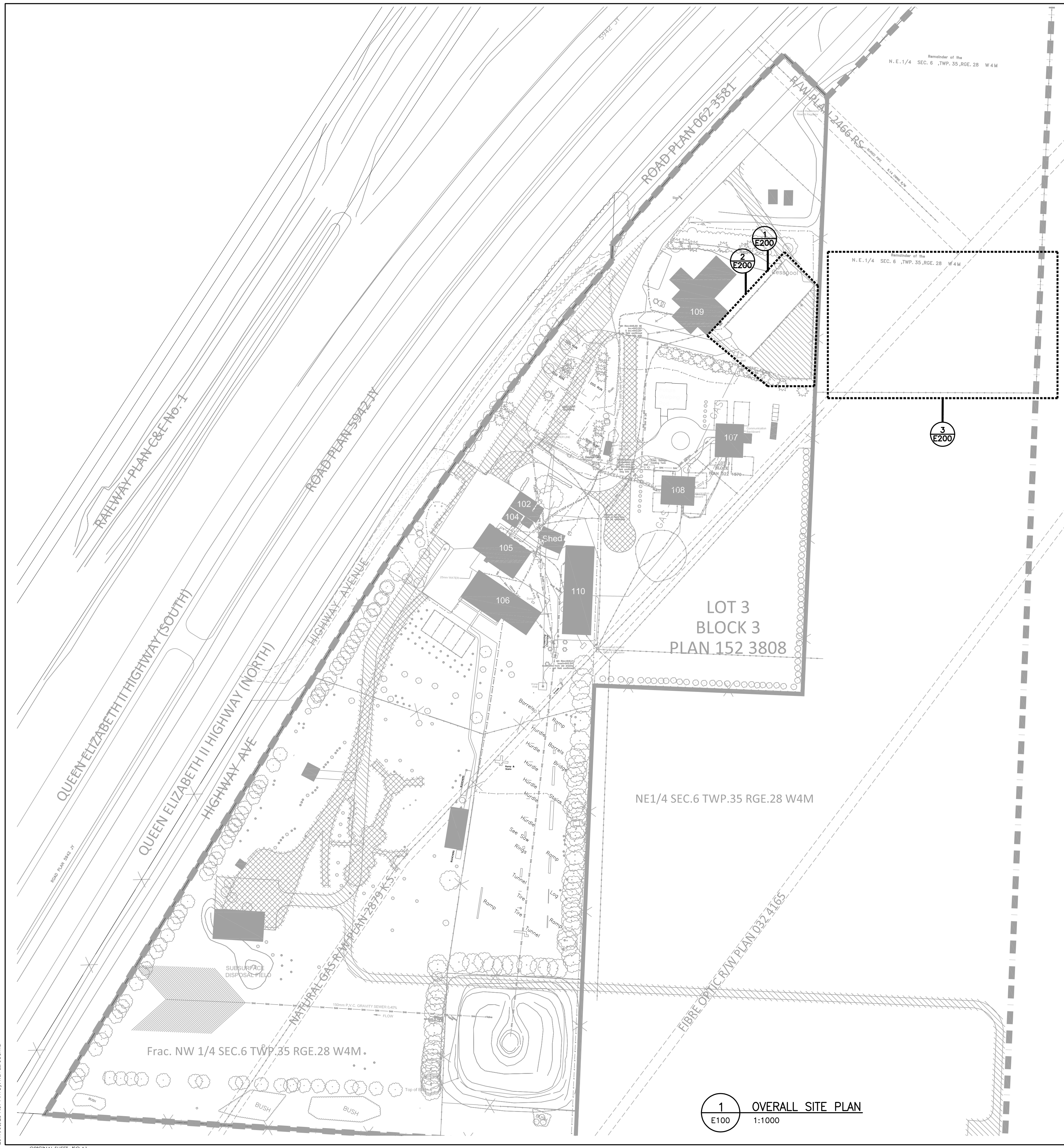
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Calgary, Alberta

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The Alberta Association of Landscape Architects
David Spencer
Date

Project Number: 116500398
File Name: 77216_HP-MEMORIAL.DWG
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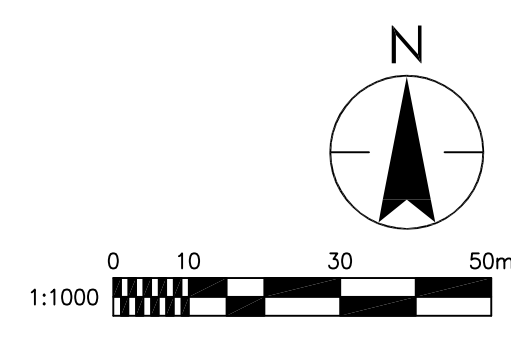


1 OVERALL SITE PLAN
E100 1:1000

SYMBOL LEGEND	
	POLE MOUNTED LUMINAIRE (SINGLE HEAD)
	DUPLEX 5-15R RECEPTACLE
	POLE MOUNTED RECEPTACLE
	FLOOR MOUNTED JUNCTION BOX
RL	RELOCATE EXISTING DEVICE
RE	REMOVE EXISTING DEVICE
ER	EXISTING DEVICE IN RELOCATED POSITION

PROJECT # 116500398	
DRAWING NUMBER	TITLE
E100	OVERALL SITE PLAN
E200	DEMOLITION AND RENOVATIONS POWER AND LIGHTING LAYOUT
E300	ELECTRICAL SPECIFICATIONS

- ELECTRICAL GENERAL NOTES**
- ALL ELECTRICAL MATERIALS AND INSTALLATIONS SHOWN AND/OR SPECIFIED SHALL BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS AND SHALL COMPLY IN STRICT ACCORDANCE WITH THE LATEST EDITION OF C.S.A. STANDARDS AND THE C.E.C.
 - ALL CONDUIT WORK AND JUNCTION BOXES AS MAY BE REQUIRED SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
 - ELECTRICAL CONTRACTOR TO PROVIDE AS-BUILT DRAWINGS AT PROJECT COMPLETION.
 - ELECTRICAL CONTRACTOR TO INSTALL NEWLY TYPE WRITTEN DIRECTORIES IN ALL PANELS TO CLEARLY IDENTIFY ALL NEW AND EXISTING CIRCUITS.
 - MAXIMUM VOLTAGE DROP SHALL BE 2% FOR FEEDERS AND 3% FOR BRANCH CIRCUITS. ELECTRICAL CONTRACTOR SHALL SIZE WIRES TO SUIT.
 - REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL ELECTRICAL EQUIPMENT PRIOR TO INSTALLATION.
 - PROVIDE LAMACOID LABELS FOR ANY SPECIAL PURPOSE SWITCHES OR RECEPTACLES C/W PANEL FEED, VOLTAGE, CIRCUIT NUMBERS.
 - DUPLEX RECEPTACLES, COMMUNICATIONS OUTLETS AND LIGHT FIXTURES SHOWN AS EXISTING SHOULD BE VERIFIED.
 - WHERE EXISTING RECEPTACLES ARE SHOWN TO BE RECIRCUITED, RE-USE EXISTING CONDUIT & BOXES. INSTALL NEW WIRE, RECEPTACLE & COVER PLATE.



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DOG TRAINING FACILITY OVERALL SITE PLAN

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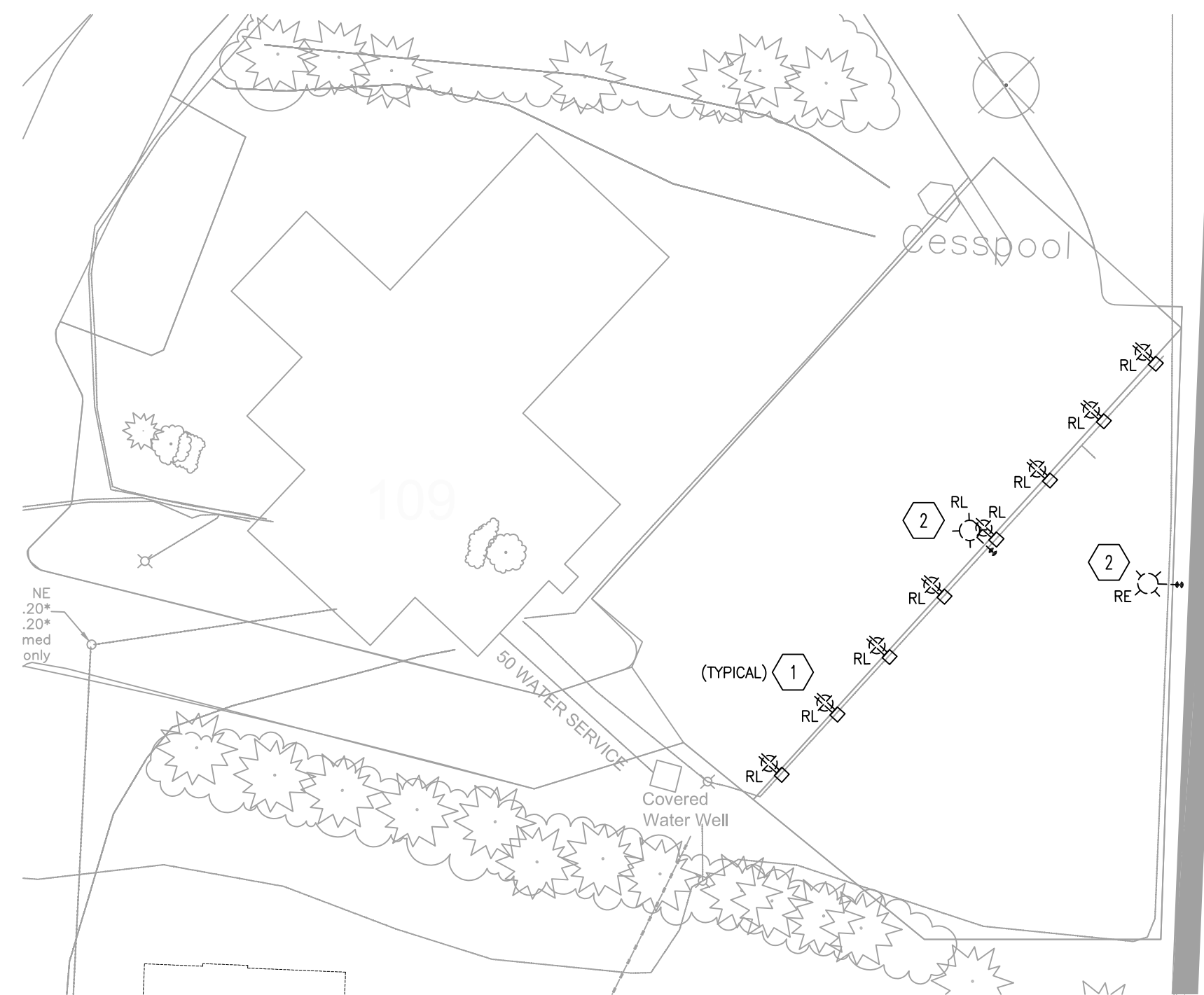
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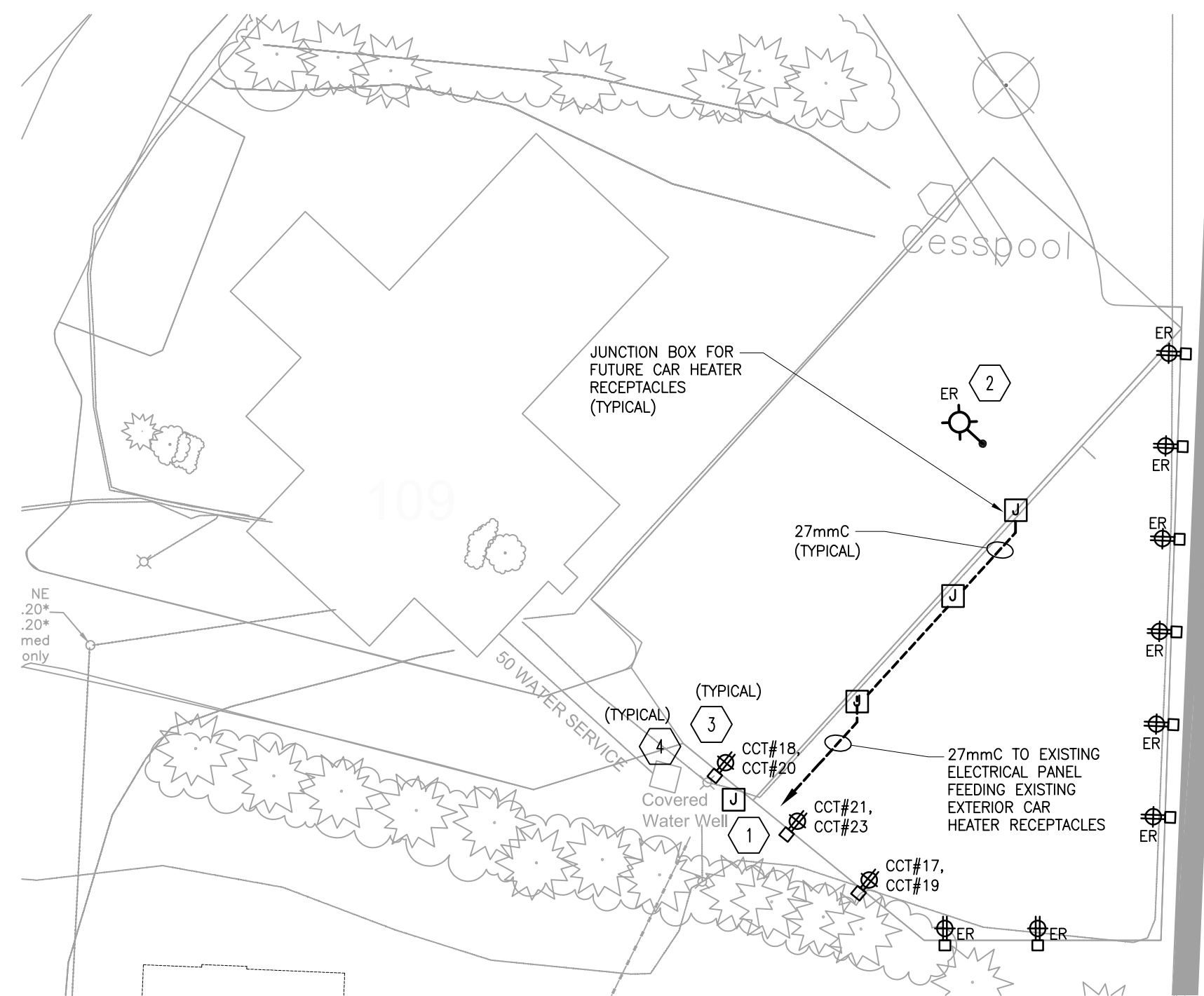
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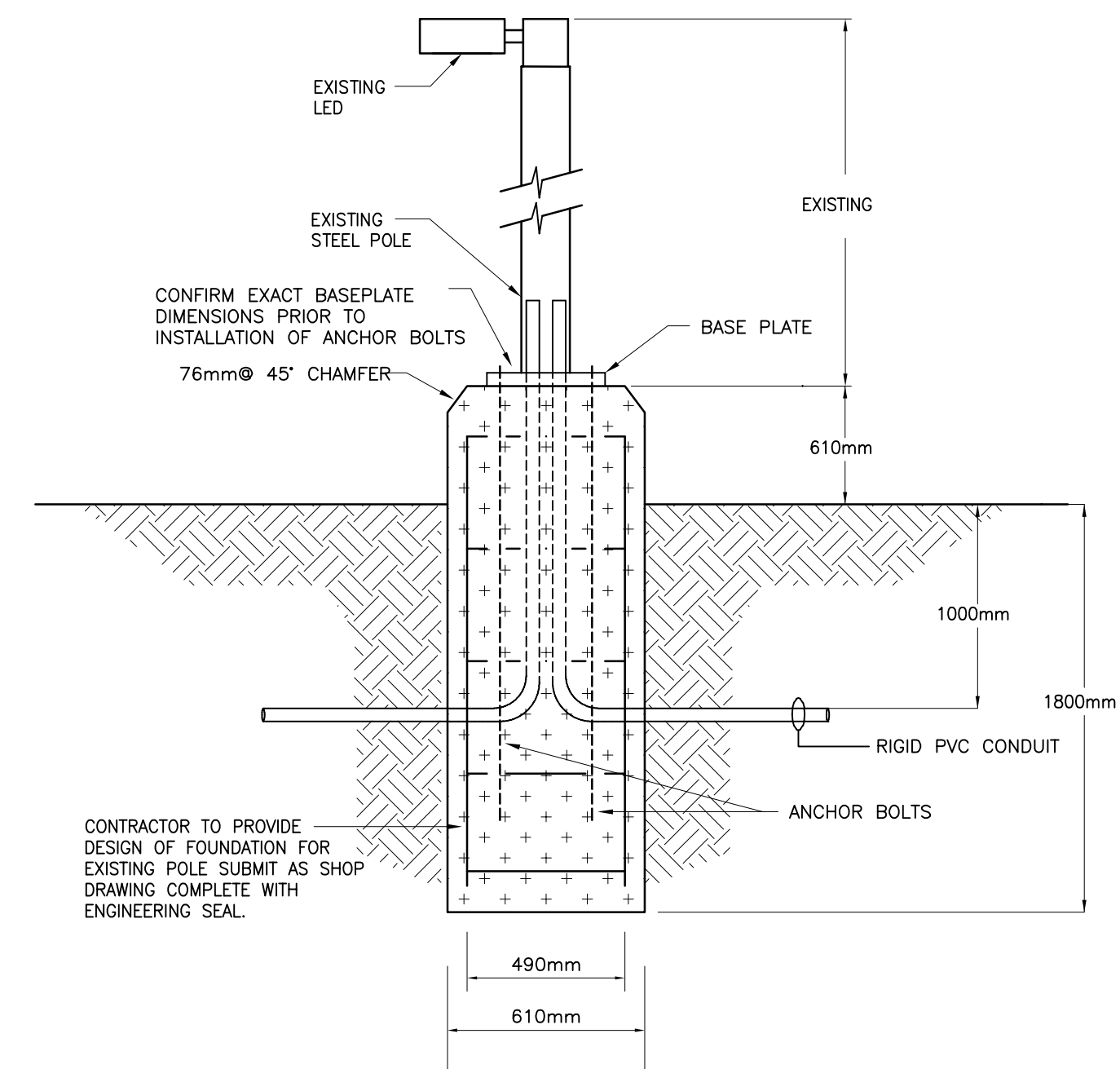
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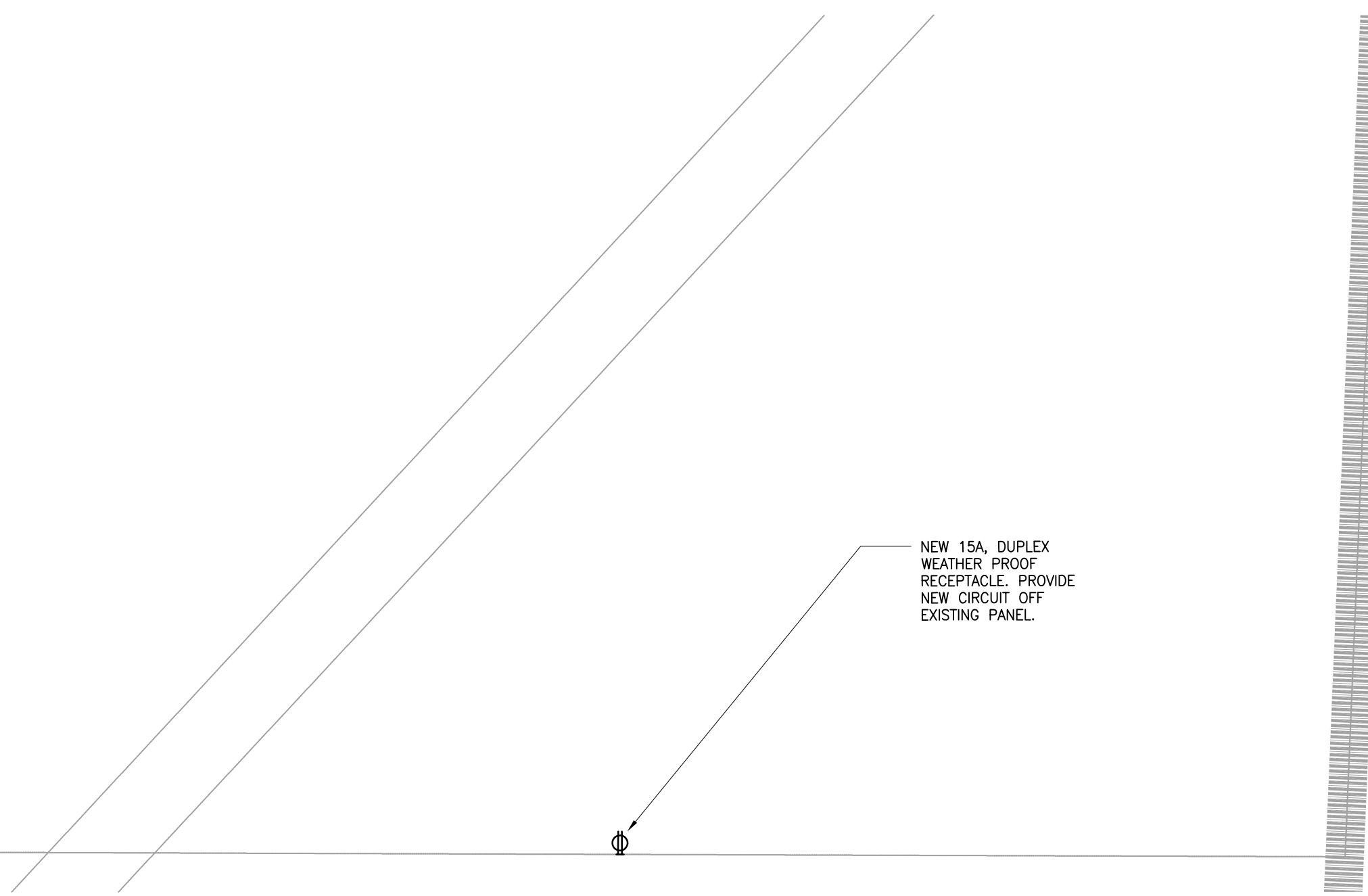
1 PHASE 2 DEMOLITION POWER AND LIGHTING LAYOUT
E200 1:400



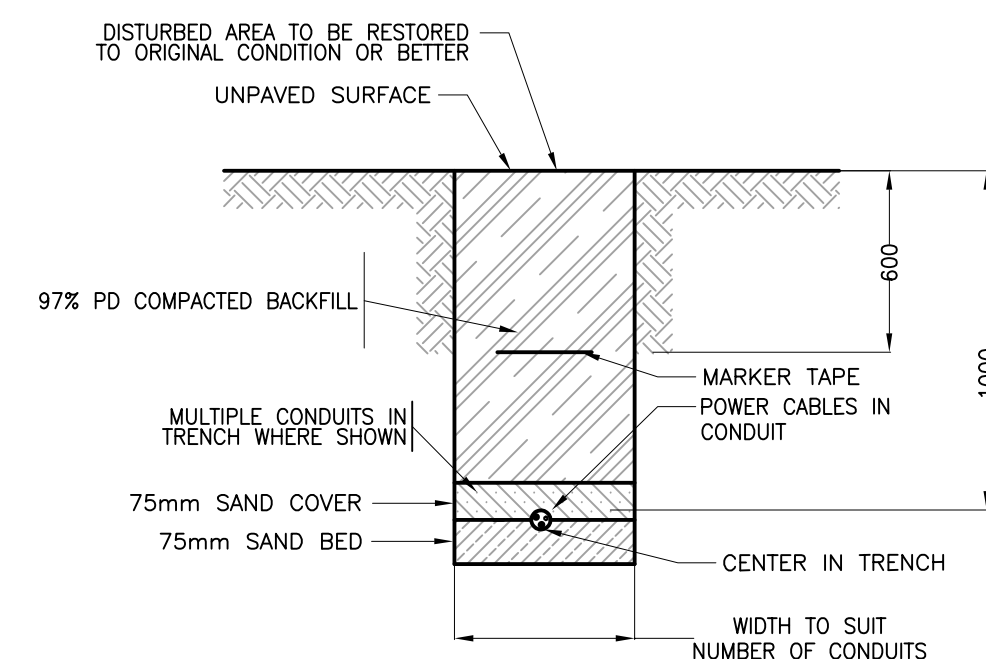
2 PHASE 2 RENOVATIONS POWER AND LIGHTING LAYOUT
E200 1:400



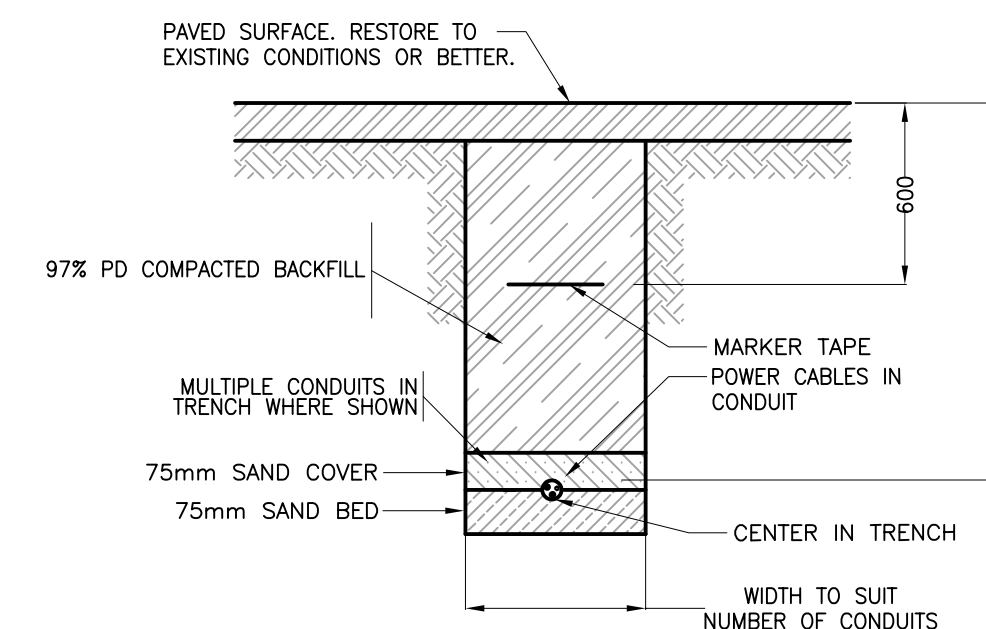
4 POLE BASE DETAIL
E200 N.T.S.



3 PHASE 1 RENOVATIONS POWER AND LIGHTING LAYOUT
E200 1:400



5 TRENCH FOR UNPAVED SURFACES
E200 N.T.S.



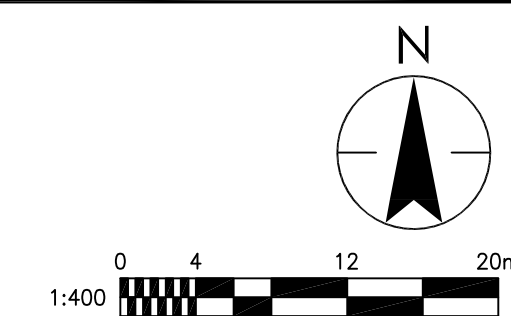
6 TRENCH FOR PAVED SURFACES
E200 N.T.S.

- POWER NOTES:**
- ELECTRICAL CONTRACTOR SHALL VISIT SITE PRIOR TO TENDER SUBMISSION TO DETERMINE EXISTING SITE CONDITIONS.
 - ELECTRICAL EQUIPMENT SHOWN ARE NEW UNLESS OTHERWISE NOTED.
 - ELECTRICAL EQUIPMENT DISCONNECTED DURING DEMOLITION AND/OR CONSTRUCTION SHALL BE RECONNECTED AND MADE FULLY OPERATIONAL.
 - ELECTRICAL CONTRACTOR TO INSTALL NEWLY TYPE-WRITTEN DIRECTORIES IN ALL PANELS TO CLEARLY IDENTIFY ALL NEW AND EXISTING CIRCUITS.
 - ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL A KROY 'DURATAPE' TYPE 200 LABEL ON ALL JUNCTION BOXES TO IDENTIFY PANEL AND ALL CIRCUIT NUMBERS WITHIN JUNCTION BOX. LABEL SHALL BE 19mm BLACK LETTERING ON CLEAR TAPE.

- KEYNOTES:**
- REMOVE EXISTING RECEPTACLE CAR POSTS & REINSTATE AS SHOWN 0.5m BACK OF PARKING LOT. LOCATE EXISTING FEED AND INTERCEPT WITH NEW INGRADE JUNCTION BOX & MARKER POST. EXTEND NEW CABLE IN CONDUIT IN ACCORDANCE WITH CANADIAN ELECTRICAL CODE. FROM JUNCTION BOX TO RELOCATED RECEPTACLE IN COMMON TRENCH & REESTABLISH CIRCUITRY.
 - REMOVE EXISTING LIGHT & REINSTATE AS SHOWN ON NEW CONCRETE BASE. LOCATE EXISTING CIRCUIT AND INTERCEPT WITH INGRADE JUNCTION BOX. EXTEND NEW CABLE IN CONDUIT IN ACCORDANCE WITH CODE FROM JUNCTION BOX TO RELOCATED LIGHT & REESTABLISH CIRCUITRY.
 - PROVIDE NEW CAR PARKING HEATER RECEPTACLES CIRCUIT OFF EXISTING PANEL. SUPPLY AND INSTALL NEW BREAKER IN EXISTING PANEL AS REQUIRED. CONTROL SHALL MATCH EXISTING.
 - INSTALLATION OF NEW CAR HEATER RECEPTACLES PEDESTAL & BASE TO MATCH EXISTING. CONFIRM TYPE OF CONSTRUCTION OF EXISTING PEDESTAL PRIOR TO ORDERING.

- LIGHTING NOTES:**
- ALL ELECTRICAL MATERIALS AND INSTALLATIONS SHOWN AND/OR SPECIFIED SHALL BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS AND SHALL COMPLY IN STRICT ACCORDANCE WITH THE LATEST EDITION OF C.S.A. STANDARDS AND THE C.E.C.
 - ALL CONDUIT WORK AND JUNCTION BOXES AS MAY BE REQUIRED SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
 - DURING DEMOLITION ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ELECTRICAL COMPONENTS (SWITCHES, RECEPTACLES, LUMINAIRES, PANEL BOARDS, ETC.) AND THEIR ASSOCIATED WIRING AND CONDUIT.
 - ELECTRICAL CONTRACTOR SHALL REUSE ALL ELECTRICAL COMPONENTS REMOVED DURING DEMOLITION WHERE POSSIBLE AND SALVAGE NON-REUSABLE ELECTRICAL COMPONENTS TO OWNER.
 - ELECTRICAL CONTRACTOR TO CONFIRM THAT LIGHTING CIRCUITS DO NOT EXCEED BOX OF EXISTING BREAKER RATING. ELECTRICAL CONTRACTOR SHALL REPLACE EXISTING 15AMP BREAKER WITH 20AMP BREAKER WHERE APPLICABLE.
 - ELECTRICAL CONTRACTOR TO INSTALL NEWLY TYPE WRITTEN DIRECTORIES IN ALL PANELS TO CLEARLY IDENTIFY ALL NEW AND EXISTING CIRCUITS.
 - PROVIDE LAMACOID LABELS FOR ANY SPECIAL PURPOSE SWITCHES OR RECEPTACLES C/W PANEL FEED, VOLTAGE AND CIRCUITS.
 - ELECTRICAL CONTRACTOR TO CLEAN ALL EXISTING LIGHT FIXTURES THAT ARE TO BE REUSED. LAMPS ARE TO BE REPLACED THROUGHOUT ENTIRE AREAS BEING RENOVATED. ELECTRICAL CONTRACTOR TO ENSURE PROPER OPERATION OF ALL REUSED FIXTURES. IF REQUIRED, ELECTRICAL CONTRACTOR TO RECONDITION EXISTING FIXTURE TO ENSURE THEY ARE IN PROPER WORKING CONDITION.
 - THE ELECTRICAL INSTALLATION SHALL CONFORM TO THE BASE BUILDING ELECTRICAL DRAWINGS AND SPECIFICATIONS.
 - EXISTING ELECTRICAL EQUIPMENT NOT SHOWN ON DRAWINGS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.

- GENERAL DEMOLITION NOTES:**
- THESE DEMOLITION DRAWINGS ARE INTENDED TO ASSIST THE ELECTRICAL CONTRACTOR IN ESTABLISHING AREAS REQUIRING DISCONNECTION, REMOVAL, OR RELOCATION OF ELECTRICAL EQUIPMENT, OUTLETS, WIRING, DEVICES, FIXTURES, ETC. AND DO NOT INDICATE ALL OUTLETS, EXACT QUANTITIES OR EXTENT OF DEMOLITION AND RECONNECTION WHICH MAY BE REQUIRED. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOBSITE AND THOROUGHLY EXAMINE ALL REQUIRED DEMOLITION WORK AND INCLUDE ALL LABOR AND INCIDENTALS WHICH MAY BE NECESSARY TO PERFORM DEMOLITION, RECONNECTION AND TEMPORARY POWER CONNECTIONS IN THE BID.
 - THE ELECTRICAL CONTRACTOR SHALL REMOVE FROM THE PREMISES AND DISPOSE OF ALL DEMOLISHED ELECTRICAL EQUIPMENT, LUMINAIRES, LAMP, BALLASTS, TRANSFORMERS, PANELBOARDS, ETC. VERIFY LOCAL AGENCY REQUIREMENTS PRIOR TO BIDDING.
 - COORDINATE THE ELECTRICAL DEMOLITION WORK WITH THE GENERAL CONTRACTOR AND ALL OTHER TRADES AT THE JOBSITE. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARLY IDENTIFYING ALL CONDUITS, WIRING AND EQUIPMENT WHICH MUST BE MAINTAINED TO PREVENT DAMAGE TO ELECTRICAL CIRCUITS AND EQUIPMENT BY THE DEMOLITION WORK OF OTHER TRADES. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR REPAIR OR REPLACEMENT OF ELECTRICAL CIRCUITS AND/OR EQUIPMENT DAMAGED BY THE DEMOLITION WORK OF OTHERS RESULTING FROM THE FAILURE OF THE ELECTRICAL CONTRACTOR TO CLEARLY IDENTIFY SAID CIRCUITS OR EQUIPMENT.
 - REFER TO LANDSCAPE PLANS FOR FURTHER INDICATION OF DEMOLITION AND RENOVATION. ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR TEMPORARY OR PERMANENT REMOVAL, DISCONNECTION, AND/OR RELOCATION OF EQUIPMENT AND ASSOCIATED CONTROLS.
 - ELECTRICAL CONTRACTOR TO VISIT THE SITE DURING BIDDING PROCESS. INSPECT AREAS BEING RENOVATED OR DEMOLISHED AND ACQUAINT THEMSELVES FULLY WITH THE EXISTING EQUIPMENT. DISCREPANCIES TO BE REPORTED TO THE ENGINEER 7 DAYS PRIOR TO SUBMISSION OF BID FOR INCLUSION IN ADDENDA IF REQUIRED. IN THE ABSENCE OF NOTIFICATION, IT WILL BE ASSUMED THAT THE CONTRACTOR HAS INCLUDED THE MORE EXPENSIVE ALTERNATIVE IN THE TENDERED PRICE.
 - ELECTRICAL CONDUIT, WIRES, AND SYSTEMS CABLING SHALL BE REMOVED FROM OUTLET BACK TO SOURCE.



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POWER AND LIGHTING LAYOUT

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Drawing No. E200
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1.0 PART 1 - GENERAL PROVISIONS

- 1.1 THE GENERAL REQUIREMENTS, INSTRUCTIONS TO BIDDERS, THIS SPECIFICATION AND ANY ADDENDA HERE TO FORM PART OF THE CONTRACT DOCUMENTS AND SHALL BE READ IN CONJUNCTION WITH THEM. WORK SHALL INCLUDE THE FURNISHING OF ALL LABOR AND MATERIALS UNLESS SPECIFICALLY NOTED OTHERWISE TO COMPLETE AND PUT INTO OPERATING CONDITION ALL ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN.
1.2 RESPONSIBILITY AS TO WHICH TRADE PROVIDES REQUIRED ARTICLES OR MATERIALS RESTS SOLELY WITH THE CONTRACTOR. EXTRAS WILL NOT BE CONSIDERED BASED ON GROUNDS OF DIFFERENCE IN INTERPRETATION OF SPECIFICATION AS TO WHICH TRADE INVOLVED SHALL PROVIDE CERTAIN SPECIALTIES OR MATERIALS.
1.3 THE DRAWINGS AND SPECIFICATIONS ARE ALL INCLUSIVE. WHATEVER IS SHOWN OR INDICATED REGARDLESS OF SPECIFICATION SECTION AND DRAWING IS THE RESPONSIBILITY OF THE RESPECTIVE TRADE TO EXECUTE.
1.4 DEFINITIONS:
1. DIVISION 26, ELECTRICAL CONTRACTOR: CONTRACTOR SUPPLYING ELECTRICAL INSTALLATION UNDER THE TERMS OF THESE DRAWINGS AND SPECIFICATIONS.
2. CONTRACTOR: GENERAL CONTRACTOR FOR THE PROJECT.
3. BASE BUILDING: BUILDING IN WHICH THE WORK OF THIS CONTRACT SHALL TAKE PLACE.
4. BASE BUILDING CONTRACTOR: AS DEFINED BY THE LANDLORD.

2.0 PART 2 - CONSTRUCTION REGULATIONS

- 2.1 ALL WORKMANSHIP COMPLETED UNDER THE CONTRACT SHALL BE DONE TO MEET STANDARDS UNLESS SPECIFICALLY STATED HEREIN TO EXCEED SUCH STANDARDS.
2.2 WORK PERFORMED UNDER THIS CONTRACT SHALL ONLY COMMENCE UNDER APPROVAL OF THE OWNER. ELECTRICAL CONTRACTOR SHALL OBTAIN NECESSARY WORK AUTHORIZATION, PERMITS, OR APPROVALS PRIOR TO COMMENCEMENT OF ANY WORK. MAKE WRITTEN APPLICATION TO BUILDING OPERATOR AT LEAST 72 HOURS IN ADVANCE OF SCHEDULED DATE ON WHICH THE WORK WILL BE CARRIED OUT. STATE WORK DESCRIPTION, START TIME AND DATE OF ANTICIPATED COMPLETION TIME AND DATE AND DURATION IN ACCORDANCE WITH THE BUILDING OPERATOR'S REQUIREMENTS.
2.3 ALL ELECTRICAL IMPROVEMENT CHANGES TO ADHERE TO GOVERNMENT REGULATED BUILDING AND ELECTRICAL CODES AND WILL BE SUBJECT TO A PERMIT AND INSPECTION PROCEDURE.
2.4 SUBJECT TO THE GENERAL GUIDELINES DESCRIBED HEREIN, ALL CIRCUITS ARE TO BE IDENTIFIED IN BREAKER PANEL SCHEDULE.
2.5 BREAKER AND PANEL DIRECTORIES SHALL BE KEPT UP-TO-DATE AT ALL TIMES.

3.0 PART 3 - CONSTRUCTION REGULATIONS

- 3.1 ALL MATERIALS SHALL BE NEW, OF THE QUALITY SPECIFIED AND SHALL CONFORM TO THE STANDARDS OF THE CANADIAN STANDARDS ASSOCIATION. WHERE EQUIPMENT OR MATERIALS ARE SPECIFIED BY TECHNICAL DESCRIPTION ONLY, THEY SHALL BE OF THE BEST COMMERCIAL QUALITY OBTAINABLE FOR THE PURPOSE.
3.2 ALL WORK SHALL BE EXECUTED IN A NEAT AND WORKMANLIKE MANNER BY QUALIFIED TRADESPEOPLE. ELECTRICAL CONTRACTOR SHALL KEEP A COMPETENT FOREMAN AND NECESSARY ASSISTANTS; ALL SATISFACTORY TO THE ENGINEER; ON THE JOB DURING THE PROGRESS OF THE WORK.

4.0 PART 4 - UNIFORMITY OF EQUIPMENT

- 4.1 UNLESS OTHERWISE SPECIFICALLY CALLED FOR IN THE SPECIFICATIONS, UNIFORMITY OF MANUFACTURER SHALL BE MAINTAINED FOR ANY PARTICULAR ITEM THROUGHOUT THE PROJECT.

5.0 PART 5 - EQUIVALENT PRODUCTS

- 5.1 ALL TENDERS SHALL BE BASED ON THE PRODUCT SPECIFIED OR EQUIVALENT PRODUCTS, WHICH HAVE BEEN GIVEN WRITTEN APPROVAL PRIOR TO TENDER BY THE ENGINEER. THE ENGINEER'S DECISION AS TO THE EQUIVALENCY OF PRODUCTS SHALL BE FINAL.
5.2 ELECTRICAL CONTRACTOR AND/OR SUPPLIERS WISHING TO SUBMIT EQUIVALENT PRODUCTS SHALL DO SO IN WRITING. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ANY SUPPLIERS QUOTING TO THE ELECTRICAL CONTRACTOR HAVE OBTAINED THE WRITTEN APPROVAL OF THE ENGINEER.
5.3 ALL REQUESTS FOR EQUIVALENT MATERIAL APPROVAL MUST BE IN THE OFFICE OF THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO CLOSING OF TENDER. NO EQUIVALENT REQUESTS WILL BE CONSIDERED AFTER THIS TIME.
5.4 THE ELECTRICAL CONTRACTOR SHALL BE HELD COMPLETELY RESPONSIBLE FOR INCLUDING IN HIS TENDER PRICE, THE COST OF ANY ALTERATIONS OR ADDITIONS BROUGHT ABOUT THROUGH HIS USE OF AN APPROVED EQUIVALENT PRODUCT, MATERIAL OR METHOD.
5.5 THE APPROVAL OF EQUIVALENT PRODUCTS WILL BE GRANTED ON THE BASIS OF GENERAL DESIGN ONLY. SUCH APPROVALS WILL NOT RELIEVE THE ELECTRICAL CONTRACTOR FROM PROVIDING ALL NECESSARY COMPONENTS AND FUNCTIONS REQUIRED IN THE SPECIFICATIONS OR ON THE DRAWINGS.

6.0 PART 6 - DRAWINGS AND SPECIFICATIONS

- 6.1 THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY EACH TO THE OTHER, WHAT IS CALLED FOR BY ONE SHALL BE BINDING AS IF CALLED FOR BY BOTH. THIS IS APPLICABLE TO STRUCTURAL, ARCHITECTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS.
6.2 SHOULD ANY DISCREPANCY APPEAR BETWEEN THE DRAWINGS AND SPECIFICATIONS WHICH LEAVES THE ELECTRICAL CONTRACTOR IN DOUBT AS TO THE TRUE INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS, A RULING SHALL BE OBTAINED FROM THE ENGINEER OR ARCHITECT IN WRITING BEFORE SUBMITTING TENDER. IF THIS IS NOT DONE, IT WILL BE ASSUMED THAT THE MOST EXPENSIVE ALTERNATE HAS BEEN FIGURED.

7.0 PART 7 - CODES, PERMITS AND INSPECTION

- 7.1 THE INSTALLATION SHALL COMPLY WITH REQUIREMENTS OF THE CURRENT EDITION OF THE CANADIAN ELECTRICAL CODE AND THE AUTHORITY HAVING JURISDICTION.
7.2 THE ELECTRICAL CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED, AND AFTER COMPLETION OF WORK SHALL FURNISH TO THE ENGINEER A CERTIFICATE OF FINAL INSPECTION AND APPROVAL FROM THE ELECTRICAL INSPECTION DEPARTMENT AND/OR THE AUTHORITY HAVING JURISDICTION.

8.0 PART 8 - EXAMINATION OF THE SITE

- 8.1 PRIOR TO SUBMITTING HIS TENDER, THE ELECTRICAL CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE AND ASCERTAIN ALL CONDITIONS, WHICH SHALL AFFECT HIS TRADE. NO EXTRAS WILL BE ALLOWED FOR WORK RESULTING FROM CONDITIONS THAT WOULD HAVE BEEN EVIDENT UPON A THOROUGH EXAMINATION OF SITE.

9.0 PART 9 - CLEANUP

- 9.1 THE ELECTRICAL CONTRACTOR AND HIS SUBTRADES SHALL AT ALL TIMES DURING CONSTRUCTION, KEEP THE SITE FREE OF ALL DEBRIS, BOXES, PACKING, ETC. RESULTING FROM WORK OF THIS TRADE.
9.2 AT THE COMPLETION OF THE WORK, THE ELECTRICAL INSTALLATION SHALL BE LEFT IN A CLEAN FINISHED CONDITION TO THE SATISFACTION OF THE ENGINEER OR ARCHITECT.

10.0 PART 10 - EXAMINATION OF OTHER DRAWINGS

- 10.1 ELECTRICAL CONTRACTOR SHALL EXAMINE CAREFULLY THE STRUCTURAL, ARCHITECTURAL AND MECHANICAL DRAWINGS AND WORK OF OTHER TRADES TO SATISFY HIMSELF THAT THE WORK UNDER THIS CONTRACT CAN BE SATISFACTORILY CARRIED OUT AS SHOWN ON THE PLANS. SHOULD ANY DIFFICULTY ARISE SHOWING CONFLICT WITH, OR REQUIRING ADDITIONAL WORK BEYOND THE WORK OF THESE DRAWINGS, HE SHALL BRING THIS MATTER TO THE ATTENTION OF THE ARCHITECT OR ENGINEER BEFORE SUBMITTING HIS TENDER.

11.0 PART 11 - SETTING OUT OF THE WORK

- 11.1 ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ALL WORK COMPLETED CONTRARY TO THE INTENT OF DRAWINGS AND SPECIFICATIONS AND SHALL BEAR ALL COST FOR SAME, WHERE INTENT OF DRAWINGS AND SPECIFICATIONS IS NOT CLEAR, HE SHALL OBTAIN CLARIFICATION OF THE CONSULTANT BEFORE PROCEEDING WITH WORK.
11.2 THE ELECTRICAL CONTRACTOR SHALL GIVE THE WORK HIS PERSONAL SUPERVISION, LAY OUT HIS OWN WORK, DO ALL NECESSARY LEVELING AND MEASURING OR EMPLOY A COMPETENT ENGINEER TO DO SO. FIGURES, FULL SIZE AND DETAIL DRAWINGS SHALL TAKE PRECEDENCE OVER SCALE MEASUREMENTS.
11.3 WHERE EQUIPMENT SUPPLIED BY THE ELECTRICAL CONTRACTOR MUST BE BUILT IN WITH THE WORK OF OTHER TRADES, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPLYING OF THE EQUIPMENT TO BE BUILT IN OR MEASUREMENTS TO ALLOW NECESSARY OPENINGS TO BE LEFT SO AS NOT TO HOLD UP THE WORK.
11.4 ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE OWNER OR ANY OF THE OTHER TRADES BY IMPROPER LOCATION OR CARRYING OUT OF HIS WORK.
11.5 THE ELECTRICAL CONTRACTOR, IN SETTING OUT OF HIS WORK, SHALL REFER TO ARCHITECTURAL, AND MECHANICAL DRAWINGS. HE SHALL CONSULT WITH THE RESPECTIVE TRADES IN SETTING OUT LOCATIONS FOR CONDUIT RUNS, LUMINAIRES, PANEL ASSEMBLIES, ETC., SO THAT CONFLICTS ARE AVOIDED AND SYMMETRICAL EVEN SPACING IS MAINTAINED.
11.6 ALL WORK SHALL BE CO-ORDINATED WITH ARCHITECTURAL DETAILS AND SHALL BE ADJUSTED, IF REQUIRED.
11.7 ELECTRICAL CONTRACTOR TO CO-ORDINATE ANY INTERRUPTIONS TO ADJOINING TENANTS IN ORDER TO AVOID ANY INCONVENIENCES TO SAID TENANT. IF NECESSARY, CONTRACTOR TO DO ANY REQUIRED CONNECTIONS ON OFF-HOURS.

12.0 PART 12 - CUTTING AND PATCHING

- 12.1 GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR THE ELECTRICAL INSTALLATION. STRUCTURAL MEMBERS SHALL NOT BE CUT WITHOUT THE CONSENT OF THE STRUCTURAL ENGINEER.
12.2 WHERE WORK BY THE ELECTRICAL CONTRACTOR DAMAGES WORK OF OTHER TRADES, THE ELECTRICAL CONTRACTOR SHALL REPAIR AND MAKE GOOD SUCH DAMAGE TO THE SATISFACTION OF THE TRADE CONCERNED AND THE ARCHITECT.
12.3 PRIOR TO CORING, ALL AREAS ARE TO BE IDENTIFIED, X-RAYED AND APPROVED BY THE STRUCTURAL ENGINEER.

13.0 PART 13 - PAINTING AND FINISHES

- 13.1 ALL ELECTRICAL FITTINGS, SUPPORTS, HANGERRODS, PULLBOXES, CHANNEL FRAMES, CONDUIT RACKS, OUTLET BOXES, BRACKETS, CLAMPS, ETC. SHALL HAVE GALVANIZED FINISH OR PAINT FINISH OVER CORROSION-RESISTANT PRIMER.

14.0 PART 14 - IDENTIFICATION

- 14.1 CLEARLY IDENTIFY MAIN DISTRIBUTION CENTRE, SUBDISTRIBUTION PANELBOARDS, POWER PANELBOARDS, DISCONNECT SWITCHES, JUNCTION BOXES, ON/OFF SWITCHES AND TRANSFORMERS BY PERMANENT LABELS DESCRIBED BELOW.
14.2 NAMETAGS TO BE OF 2-LAYER LAMINATED PLASTIC, BLACK/WHITE WITH ETCHED LETTERING GIVING WHITE LETTERS ON BLACK BACKGROUND WHERE CALLED FOR ON THE DRAWINGS OR IN THE SPECIFICATIONS. LETTERS ON NAMETAGS TO BE 3mm HIGH MINIMUM, 25mm HIGH LETTERS TO BE USED WHERE NOTED ON DRAWINGS. MECHANICAL FASTENINGS TO BE USED THROUGHOUT.

15.0 PART 15 - ACCESS DOORS

- 15.1 THE ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ACCESS DOORS REQUIRED FOR PROPER SERVICING OF ALL ELECTRICAL WORK. ACCESS DOORS SHALL BE COMPLETE WITH NECESSARY FRAMES AND HINGED DOORS HELD CLOSED WITH CAPTIVE STUDS. ACCESS PANEL SHALL BE OF NOT LESS THAN 3mm STEEL, PRIME COAT FINISHED AND PAINTED ON THE JOB TO MATCH THE WALL OR CEILING FINISH.
15.2 NUMBER OF ACCESS DOORS TO BE KEPT TO AN ABSOLUTE MINIMUM AND TO BE USED ONLY WITH THE PERMISSION OF THE ENGINEER OR ARCHITECT.

16.0 PART 16 - SHOP DRAWINGS

- 16.1 ELECTRICAL CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL SHOP DRAWINGS OF ELECTRICAL COMPONENTS AS REQUESTED BY THE ENGINEER.
16.2 ALL DRAWINGS SHALL BE SUBMITTED IN ELECTRONIC COPIES IN CLEAN, LEGIBLE PDF FORMAT AND WILL BE RETURNED TO THE ELECTRICAL CONTRACTOR. SUBMIT ADDITIONAL COPIES FOR APPROVAL AS MAY BE REQUIRED.
16.3 THE ENGINEER'S REVIEW OF SHOP DRAWINGS SHALL BE FOR GENERAL DESIGN ONLY AND SHALL NOT RELIEVE THE ELECTRICAL CONTRACTOR OR SUPPLIERS FROM THEIR RESPONSIBILITY FOR ERRORS, PROPER FITTING, CONSTRUCTION OF THE WORK AND FURNISHING OF MATERIALS. THE REVIEW SHALL NOT BE CONSTRUED AS APPROVING DEPARTURES FROM THE CONTRACT DOCUMENT REQUIREMENTS IF SUCH DEPARTURES ARE NOT SPECIFICALLY NOTED IN A COVERING LETTER ACCOMPANYING SUCH DRAWINGS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS.

17.0 PART 17 - RECORD PLANS

- 17.1 ELECTRICAL CONTRACTOR SHALL ACCURATELY RECORD ON A SET OF PLANS, DAY BY DAY, ALL OUTLETS, CONDUIT, FIXTURES, EQUIPMENT AS ACTUALLY INSTALLED ON THE JOB. ANY CHANGES TO THE CONTRACT WORK SHALL BE SIMILARLY RECORDED.
17.2 ELECTRICAL CONTRACTOR SHALL OBTAIN AT HIS OWN EXPENSE, A COPY OF THE ENGINEER'S AUTOCAD FILES, UPON COMPLETION OF THE JOB AND BEFORE FINAL PAYMENT. CONTRACTOR SHALL UPDATE ALL INFORMATION FROM THE RECORD PRINTS TO THE AUTOCAD FILES INCLUDING ALL CHANGES TO THE ORIGINAL TENDER DRAWINGS, COVERED BY ADDENDA, CHANGE ORDERS, FIELD CHANGES, JOB CONDITIONS, ETC. THE RECORD DRAWINGS SHALL BE TURNED OVER TO THE ENGINEER COMPLETE WITH STAMP AND SEAL OF AN ELECTRICAL ENGINEER LICENSED TO PRACTICE IN THE PROVINCE OF ALBERTA.
17.3 ALL REVISIONS TO BE DONE IN THE SAME AUTOCAD VERSION AS THE ORIGINALS AND DRAFTING IS TO MATCH EXISTING DRAWING QUALITY. COMPLETED AUTOCAD DRAWINGS, DISK COPY, ONE BOND COPY SHALL BE CLEARLY MARKED "RECORD DRAWINGS" AND TURNED OVER TO THE ENGINEER.
17.4 STANTEC CONSULTING LTD. CAN PROVIDE THIS SERVICE TO THE ELECTRICAL CONTRACTOR FOR THE SUM OF \$500.00. THE ELECTRICAL CONTRACTOR IS NOT OBLIGATED TO SECURE THE SERVICES OF STANTEC CONSULTING LTD.

18.0 PART 18 - LOCATION OF OUTLETS

- 18.1 THE ENGINEER RESERVES THE RIGHT TO CHANGE THE LOCATION OF OUTLETS TO WITHIN 3m OF POINTS INDICATED ON THE PLANS WITHOUT EXTRA CHARGE PROVIDING THE CONTRACTOR IS ADVISED BEFORE INSTALLATION IS MADE.

19.0 PART 19 - TESTS

- 19.1 ALL PORTIONS OF THE ELECTRICAL WORK SHALL BE TESTED AND CHECKED FOR SATISFACTORY OPERATION.
19.2 BEFORE ENERGIZING ANY PORTION OF THE ELECTRICAL SYSTEM, PERFORM MEGGER TESTS ON ALL FEEDERS AND BRANCH CIRCUITS. RESULTS OF SUCH TESTS SHALL CONFORM TO THE REQUIREMENTS OF THE CANADIAN ELECTRICAL CODE AND SHALL BE TO THE SATISFACTION OF THE AUTHORIZED INSPECTION AGENCY AND THE ENGINEER. SUBMIT ALL TEST REPORTS TO THE ENGINEER BEFORE ENERGIZING EQUIPMENT.

20.0 PART 20 - GUARANTEE/WARRANTY

- 20.1 FURNISH A WRITTEN GUARANTEE/WARRANTY COUNTERSIGNED AND GUARANTEED BY THE GENERAL CONTRACTOR STATING.
20.2 THAT ALL WORK EXECUTED UNDER THIS CONTRACT WILL BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THIS WORK.
20.3 THE ABOVE PARTIES FURTHER AGREE TO, AT THEIR OWN EXPENSE, REPAIR AND REPLACE ALL SUCH DEFECTIVE WORK AND OTHER WORK DAMAGED THEREBY WHICH FAILS OR BECOMES DEFECTIVE DURING THE TERM OF THE GUARANTEE/WARRANTY PROVIDED THAT SUCH FAILURE IS NOT DUE TO IMPROPER USAGE.
20.4 THE PERIOD OF THE GUARANTEE SPECIFIED SHALL IN NO WAY SUPPLANT ANY OTHER GUARANTEE OF A LONGER PERIOD BUT SHALL BE BINDING ON WORK NOT OTHERWISE COVERED.

21.0 PART 21 - CONDUIT

- 21.1 ALL WIRE AND CABLE TO BE INSTALLED IN EMT CONDUIT, UNLESS OTHERWISE INDICATED OR AS REQUIRED BY THE CANADIAN ELECTRICAL CODE. TECK 90 CABLE IS PERMITTED FOR FEEDERS PROVIDED CABLE IS ADEQUATELY SUPPORTED AND NEATLY INSTALLED TO THE SATISFACTION OF THE ENGINEER AND THE LOCAL INSPECTION AUTHORITY.
21.2 CONDUITS TO BE INSTALLED FREE FROM DENTS AND BRUISES. CONDUIT ENDS ARE TO BE PLUGGED TO PREVENT ENTRANCE OF DIRT OR MOISTURE.
21.3 ALL CONDUITS, EXCEPT WHERE OTHERWISE NOTED, TO BE SIZED IN ACCORDANCE WITH CANADIAN ELECTRICAL CODE.
21.4 JUNCTION BOX FROM WHICH POINT CABLE IN CONDUIT SHALL BE RUN TO THE INDIVIDUAL OUTLETS AS INDICATED ON THE DRAWINGS. BX CABLE SHALL NOT BE INSTALLED THROUGH THE FLOOR SLAB AT ANY LOCATION.

22.0 PART 22 - WIRING AND CABLING

- 22.1 ALL WIRING SHALL BE COPPER WITH RW90 X-LINK OR R90 NYLON 600 VOLT INSULATION AND BEAR CSA LABELING.
22.2 NO CONDUCTOR SMALLER THAN NO 12 AWG SHALL BE USED FOR BRANCH CIRCUIT WIRING.
22.3 SMALLER CONDUCTORS FOR THE CONTROL OR LOW VOLTAGE WORK TO BE USED WHERE CALLED FOR ON THE DRAWINGS OR IN THE SPECIFICATIONS.
22.4 ALL CONDUCTORS TO BE COLOR CODED THROUGHOUT THE BUILDING IN ACCORDANCE WITH THE FOLLOWING SCHEDULE OR TO MATCH EXISTING:
1. SYSTEM AND EQUIPMENT GROUNDING CONDUCTOR: GREEN
2. NEUTRAL CONDUCTOR (SERVICE ENTRANCE OR XO POINT OF TRANSFORMERS): WHITE
22.5 120/208 VOLT PHASE CONDUCTORS: RED, BLACK AND BLUE.
22.6 347/600 VOLT PHASE CONDUCTORS: ORANGE, BROWN AND YELLOW.
22.7 CONDUCTORS TO BE SIZED AS DESCRIBED HEREIN. CONDUCTORS TO BE SIZED SO AS TO LIMIT VOLTAGE DROP TO THE LIMITS OUTLINED IN THE CANADIAN ELECTRICAL CODE.

23.0 PART 23 - PULLBOXES

- 23.1 SUPPLY AND INSTALL PULLBOXES AS REQUIRED TO SUIT JOB CONDITIONS. PULLBOXES TO CONFORM TO CANADIAN ELECTRICAL CODE REQUIREMENTS.

24.0 PART 24 - GROUNDING

- 24.1 SUPPLY AND INSTALL COMPLETE GROUNDING SYSTEM AS INDICATED AND AS REQUIRED BY CANADIAN ELECTRICAL CODE AND ELECTRICAL INSPECTION DEPARTMENT.
24.2 ALL COMPONENTS SHALL BE SECURELY AND ADEQUATELY GROUNDED AND WHERE REQUIRED TO ACCOMPLISH THIS, GROUNDING JUMPERS, GROUNDING STUDS AND BUSHINGS SHALL BE USED.
24.3 ENSURE THAT ALL RACEWAYS, TERMINAL PANELS, ETC. FOR TELEPHONE, LOW VOLTAGE, FIRE ALARM, SOUND, ETC. ARE SECURELY AND ADEQUATELY GROUNDED AND PROVIDE GROUNDING CONDUCTOR TO WATER MAIN WHERE CALLED FOR OR WHERE REQUIRED.
24.4 BOND ALL LOW TENSION SYSTEM (TELECOMMUNICATION CONDUITS, ETC.) AT PLYWOOD BACKBOARDS WITH #8 AWG BONDING CONDUCTOR.
24.5 ALL METALLIC CONDUITS LONGER THAN 1 METER IN LENGTH, CONTAINING A SINGLE GROUNDING OR BONDING CONDUCTOR SHALL BE BONDED AS PER THE CANADIAN ELECTRICAL CODE.
24.6 BOND STARTPOINT OF TRANSFORMER TO MAIN BUILDING GROUND IN ACCORDANCE WITH CEC TABLE 16B.

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Table with columns for Revision, Date, and Appr. (Approved by). Includes revision 1: ISSUED FOR TENDER, dated 2017.06.23, approved by YY.MM.DD.

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Permit-Seal

PERMIT NUMBER: P 0258
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