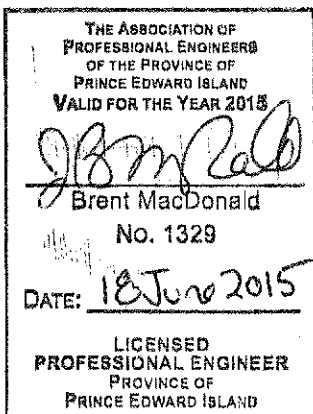
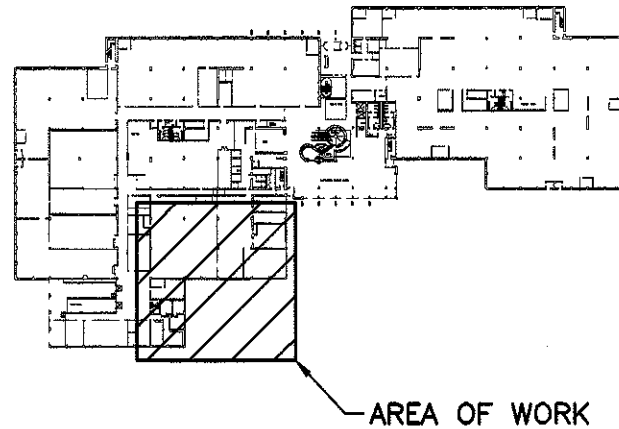
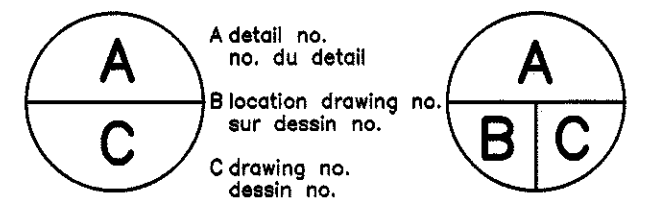




KEYPLAN:



P4	ISSUED FOR TENDER	JUN 19 2015
P3	ISSUED FOR 100% REVIEW	MAY 4 2015
P2	ISSUED FOR 99% REVIEW	MAR 23 2015
P1	ISSUED FOR 66% REVIEW	FEB 12 2015
revisions		date



project projet

**JOSEPH A GHIZ
BUILDING CHILLER PLANT
REPLACEMENT**

SUMMERSIDE, PEI

drawing dessin

**ELECTRICAL
NOTES**

designed AJ	conçu
date JAN, 2015	
drawn TC	dessiné
date JAN, 2015	
approved JBM	approuvé
date JAN, 2015	
Tender RYAN MCGUIRE PWC Project Manager	Soumission Administrateur de projets TPC
project number	no. du projet
R055258.001	
drawing no.	no. du dessin
E-8	

GENERAL NOTES

- THESE GENERAL NOTES APPLY TO ALL DRAWINGS, DESIGN, EQUIPMENT, FABRICATION, CONSTRUCTION AND ANY OTHER ASPECTS ASSOCIATED WITH THIS WORK.
- THE CONTRACTOR IS TO CONSTRUCT BASED UPON THE DESIGN AND TYPICAL DETAILS PROVIDED HERE IN AND IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE. DEVIATIONS ARE TO BE APPROVED BY THE OWNER OR THEIR DESIGNATE. CONSTRUCTION THAT IS NOT DETAILED WILL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND MUST MEET CANADIAN ELECTRICAL CODE, AND ACCEPTED INDUSTRIAL PRACTICES, SUBJECT TO THE APPROVAL OF THE OWNER. THE CONTRACTOR IS TO IDENTIFY ANY DISCREPANCIES BETWEEN THE DRAWINGS, CANADIAN ELECTRICAL CODE, OR ACCEPTED INDUSTRY PRACTICES TO THE OWNER FOR CLARIFICATION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION, TESTING, AND COMMISSIONING OF ALL NEW ELECTRICAL EQUIPMENT INSTALLED UNDER THIS WORK SCOPE.
- REMOVE ALL DEMOLISHED MATERIAL FROM SITE AND PAY ALL TRANSPORTATION, TIPPING AND OTHER FEES ASSOCIATED WITH MATERIAL DISPOSAL.
- UNLESS SPECIFICALLY NOTED, DEMOLITION TO BE HANDLED BY CONTRACTOR.
- LOCATION OF EQUIPMENT IS SHOWN APPROXIMATE. DO NOT SCALE LOCATION OFF DRAWINGS. SELECT THE FINAL LOCATION TO SUIT ACTUAL SITE SITUATION.
- REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PLACING ORDERS AND PROCEEDING WITH THE CONSTRUCTION.
- SUPPLY AND INSTALL ALL NEW ITEMS UNLESS SPECIFICALLY NOTED OTHERWISE.
- PROVIDE ALL LIFTING, HOISTING, RIGGING, AERIAL ACCESS AND OTHER EQUIPMENT REQUIRED FOR PERFORMANCE OF WORK.
- PROVIDE ALL NECESSARY EQUIPMENT, ANCILLARIES, LABOR, WARRANTIES, CERTIFICATIONS AND LICENSES AS REQUIRED FOR A COMPLETE WORKING SYSTEM, REGARDLESS IF SPECIFICALLY LISTED.
- RECORD THE ACTUAL INSTALLATION ON A SET OF CONSTRUCTION DRAWINGS AND RETURN TO THE OWNER UPON COMPLETION OF WORK.
- PROVIDE THE OWNER WITH 12 MONTHS WRITTEN GUARANTEE OF MATERIALS AND WORKMANSHIP. WITHIN THAT PERIOD, REPAIR AND REPLACE ALL DEFECTS AT NO ADDITIONAL COST TO THE OWNER.
- DO NOT ALLOW CONSTRUCTION MATERIAL TO ACCUMULATE ON SITE. CLEAN UP AT THE END OF EACH DAY AND AT THE COMPLETION OF THE JOB.
- THE CONTRACTOR IS TO REPAIR ANY DAMAGE TO THE EXISTING WALLS, CEILING, ROOF, OR FLOOR CAUSED BY THE WORK INVOLVED WITH THIS PROJECT, AND FILL IN AND COVER IN KIND ANY HOLES THAT ARE LEFT FROM THE REMOVAL OF ANY WIRING, ELECTRICAL MATERIALS, OR ELECTRICAL EQUIPMENT.
- CONTRACTOR TO PROVIDE AND INSTALL FIRE STOPPING WHERE CONDUITS PASS THROUGH FIRE WALLS AND PARTITIONS.
- WIRE SIZE TO BE AS INDICATED ON THE DRAWINGS OR TO MATCH CIRCUIT BREAKER RATING.
- ELECTRICAL CONTRACTOR IS REQUIRED TO VISIT SITE PRIOR TO BIDDING TO FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS AS THEY EFFECT THE ELECTRICAL INSTALLATION. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO PROVIDE A COMPLETE INSTALLATION. NO EXTRA MONEY CLAIMS WILL BE CONSIDERED FOR WORK RELATING TO THIS SECTION BECAUSE OF FAILURE TO THOROUGHLY EXAMINE THE SITE.
- OBTAIN AND PAY FOR ALL FEES AND PERMITS AND C.S.A. APPROVALS REQUIRED BY ANY AUTHORITY HAVING JURISDICTION.
- ALL MATERIAL SHALL BE NEW AND C.S.A. APPROVED UNLESS OTHERWISE NOTED. ALL MODIFICATIONS TO BE C.S.A. APPROVED AS REQUIRED.
- ALL WORK IN THIS CONTRACT TO BE COORDINATED WITH OTHER DISCIPLINE DRAWINGS TO DETERMINE EXACT LOCATIONS OF EQUIPMENT, ETC. REPORT ANY DISCREPANCIES TO OWNER'S REPRESENTATIVE.
- PROVIDE AN INSPECTION CERTIFICATE BY ELECTRICAL INSPECTION AUTHORITY ON COMPLETION OF WORK.
- ALL CONDUITS AND CABLES TO BE SECURELY FASTENED WITH APPROVED MOUNTING HARDWARE.
- THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE OWNER'S SAFE LOCK OUT PROCEDURES AND AS PER CANADIAN LABOR CODE WHEN ISOLATING POWER CIRCUITS. ALL WORK AND POWER INTERRUPTIONS ARE TO BE COORDINATED WITH THE OWNER.
- THE CONTRACTOR IS TO SUPPLY ALL NECESSARY EQUIPMENT, FIELD DEVICES, AND MATERIALS FOR THE INDICATED WORK.
- ELECTRICAL LOADS ARE TO BE ADDED TO PANELS IN A MANNER THAT KEEPS LOAD BALANCE BETWEEN THE PHASES. THE OWNER'S REPRESENTATIVE IS TO BE NOTIFIED OF ANY CHANGES TO THE PANEL SCHEDULE, AND THE CONTRACTOR IS TO MARK-UP THE PANEL SCHEDULE TO REFLECT THE CHANGES.

DEMOLITION NOTES

- EVERY EFFORT HAS BEEN MADE TO CREATE ACCURATE ELECTRICAL DRAWINGS OF THE ELECTRICAL SYSTEM, HOWEVER THE CONTRACTOR MUST VERIFY ALL WIRING ARRANGEMENTS PRIOR TO DEMOLITION, AND RECORD ANY MAJOR VARIANCES IN ORDER TO FACILITATE THE POWER SUPPLY OF NEW EQUIPMENT. THE OWNER'S REPRESENTATIVE IS TO BE ADVISED OF ALL SIGNIFICANT VARIANCES.
- THE ELECTRICAL SYSTEMS MUST BE KEPT OPERATIONAL AT ALL TIMES WITH THE EXCEPTION OF OFF-HOURS SCHEDULED OUTAGES TO SWING OVER FROM EXISTING TO NEW ELECTRICAL AND MECHANICAL EQUIPMENT. THE ELECTRICAL CONTRACTOR IS TO UNDERSTAND THE REQUIREMENT AND PROVIDE A DETAILED SCHEDULE THAT IS COORDINATED WITH THE MECHANICAL AND STRUCTURAL WORKS, AND APPROVED BY THE OWNER'S REPRESENTATIVE. REQUESTS FOR ADDITIONAL FEES DUE TO LACK OF PROJECT EXECUTION PLANNING TO ACCOMMODATE THIS OPERATIONAL REQUIREMENT WILL NOT BE ACCEPTED.
- ELECTRICAL CONNECTIONS TO MECHANICAL EQUIPMENT ARE TO BE DISCONNECTED BY THE ELECTRICAL CONTRACTOR, AND THE EQUIPMENT WILL BE REMOVED BY OTHERS. ALL ELECTRICAL EQUIPMENT WILL BE DISCONNECTED AND REMOVED BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR IS TO DEMOLISH ALL EXISTING WIRING, CONDUIT AND RELATED SUPPORTS FOR ALL DEVICES/EQUIPMENT BACK TO THE POWER SOURCE.
- THE ELECTRICAL CONTRACTOR IS TO REFER TO DRAWING E-1 EQUIPMENT SCHEDULE FOR DETAILS OF THE DEMOLITION AND CONSTRUCTION SCOPE.

CONSTRUCTION NOTES

- ALL ELECTRICAL EQUIPMENT, CONDUIT, WIRING, AND RELATED MATERIALS ARE TO BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- ALL NEW EXTERIOR EQUIPMENT AND MATERIALS TO MEET THE REQUIREMENTS OF NEMA 3R UNLESS OTHERWISE SPECIFIED.
- MECHANICAL EQUIPMENT WHERE NOTED IN THE EQUIPMENT SCHEDULE WILL HAVE INTEGRAL DISCONNECTS AND/OR MOTOR CONTROLLERS. IN ALL OTHER CASES, THE ELECTRICAL CONTRACTOR IS TO SUPPLY LOCALLY MOUNTED DISCONNECT SWITCHES.
- AS NOTED IN THE EQUIPMENT SCHEDULE, THE ELECTRICAL CONTRACTOR IS TO SUPPLY AND INSTALL ALL NECESSARY MODIFICATIONS TO EXISTING STARTERS AND SWITCHES, NEW FUSED SWITCHES AND STARTERS, AND NEW COVER PLATES AS REQUIRED. ANY MODIFICATIONS TO EXISTING SWITCHES, STARTERS, OR GENERAL ASSEMBLY OF MCCS AND SWITCHBOARDS ARE TO MAINTAIN CSA CERTIFICATION OF THE AFFECTED EQUIPMENT.
- EXACT LOCATIONS OF MECHANICAL EQUIPMENT TO BE CONFIRMED ON SITE AND PRIOR TO CONSTRUCTION WITH THE OWNER'S REPRESENTATIVE.
- THE ELECTRICAL CONTRACTOR IS TO SUPPLY AND INSTALL TWO 150 KVA 600 V TO 277V/460V DELTA-WYE DRY TYPE TRANSFORMERS, LOCATED AS PER DRAWING, ONE EACH FOR CHILLERS CH-4 AND CH-5. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR WIRING, CONDUIT AND RELATED SUPPORTS BETWEEN THE POWER SOURCES TO THE TRANSFORMERS, AND THE TRANSFORMERS TO THE CHILLERS DISCONNECTS.
- THE ELECTRICAL CONTRACTOR IS TO SUPPLY AND INSTALL POWER METERS IN SELF CONTAINED CSA CERTIFIED ENCLOSURE ASSEMBLIES FOR CHILLERS CH-1, CH-2, CH-3, CH-4, AND CH-5, INCLUDING CURRENT AND POTENTIAL TRANSFORMERS (CT AND PT) AS REQUIRED, CT SHORTING BLOCKS AS REQUIRED, PT FUSES AS REQUIRED, AND FOR ALL WIRING, CONDUIT AND RELATED SUPPORTS FOR THE POWER METERS. EXACT LOCATION OF METERS TO BE CONFIRMED BY OWNERS REPRESENTATIVE PRIOR TO CONSTRUCTION.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR UNDERGROUND LOCATES AND TRENCHING FOR THE INSTALLATION OF THE UNDERGROUND CONDUIT AND WIRING. THE ELECTRICAL CONTRACTOR IS TO COORDINATE WITH THE OTHER DISCIPLINES AND OWNERS REPRESENTATIVES FOR EXACT ROUTING OF UNDERGROUND ELECTRICAL AND TO ENSURE THE WORK WILL NOT AFFECT EXISTING BUILDING SERVICES WHICH ARE NOT PART OF THIS PROJECT.
- THE ELECTRICAL CONTRACTOR IS TO RELOCATE INTERIOR LIGHTING TO AVOID INTERFERENCE WITH NEW MECHANICAL EQUIPMENT. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY WIRING, CONDUIT AND RELATED SUPPORTS INVOLVED TO THE RELOCATION.
- THE ELECTRICAL CONTRACTOR IS TO RELOCATE THE EXTERIOR LIGHT FIXTURE AS PER DRAWINGS TO THE SAME ELEVATION ABOVE THE NEW SIAMESE CONNECTION. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ANY NECESSARY WIRING, CONDUIT AND RELATED SUPPORTS INVOLVED IN THE RELOCATION, AND IS TO COORDINATE WITH OTHER DISCIPLINES AND OWNERS REPRESENTATIVE FOR THE EXACT LOCATION.
- THE ELECTRICAL CONTRACTOR IS TO RE-FEED EXISTING DISCONNECT EF-20, CHILLER EXHAUST, FROM MCC N6-02 TO MCC1A, AS PER SCHEDULE AND LOCATED AS PER DRAWINGS. THE STARTER FOR EF-20 WILL BE CONTROLLED VIA THE EXISTING BUILDING BAS SYSTEM, NEW PUSH BUTTON START SWITCHES AND EXISTING REFRIGERANT MONITOR. CONTRACTOR TO WIRE PUSH BUTTON START SWITCHES, LOCATED AS PER DRAWING. INTEGRATION INTO THE BAS AND REFRIGERANT MONITORS TO BE DONE BY OTHERS. CONTRACTOR TO COORDINATE WITH OTHER DISCIPLINES.
- CONTRACTOR TO SUPPLY AND INSTALL 15A, 120V RECEPTACLES FOR CHEMICAL HEADER PUMPS, LOCATION AS PER DRAWING. CONTRACTOR RESPONSIBLE FOR WIRING, CONDUIT AND RELATED SUPPORTS. EXACT LOCATION TO BE DETERMINED PRIOR TO CONSTRUCTION AND COORDINATED WITH OTHER DISCIPLINES. CONTRACTOR TO COORDINATE WITH OWNER'S REPRESENTATIVE TO IDENTIFY NEW CIRCUITS.