

ACCESS DOORS

1. PROVIDE ACCESS DOORS AS REQUIRED. MINIMUM #16 GAUGE, PRIME COAT PAINTED, BONDERIZED STEEL FLUSH ACCESS DOOR. EACH COMPLETE WITH A HEAVY FRAME AND ANCHOR, RUST RESISTANT CONCEALED HINGE AND A POSITIVE LOCKING SCREWDRIVER LOCK. MOUNTING TO SUITE CONSTRUCTION. ACCESS DOORS IN FIRE RATED CEILINGS, WALLS, PARTITIONS, ETC. SHALL BE ULC LISTED AND LABELLED AND OF A RATING SO AS TO MAINTAIN THE INTEGRITY OF THE FIRE SEPARATION.
2. LOCATE ACCESS DOORS SO AS TO PROVIDE ACCESS TO ALL ELECTRICAL JUNCTION BOXES, PULL BOXES, AND OTHER SIMILAR ELECTRICAL WORK WHICH IS CONCEALED IN AN UNACCESSIBLE SPACE DURING CONSTRUCTION. ACCESS DOORS WILL BE INSTALLED BY THE DIVISION RESPONSIBLE FOR THE PARTICULAR CONSTRUCTION.

GROUNDING EQUIPMENT

1. CLAMPS FOR GROUNDING OF CONDUCTOR. SIZE AS REQUIRED TO ELECTRICALLY CONDUCTIVE UNDERGROUND WATER PIPE.
2. SYSTEM AND CIRCUIT, EQUIPMENT, GROUNDING CONDUCTORS, BARE STRANDED COPPER, UN-TINNED, SOFT ANNEALED, UN-ARMoured, SIZE AS REQUIRED.
3. INSULATED GROUNDING CONDUCTORS: GREEN, TYPE RW90.
4. NON-CORRODING ACCESSORIES NECESSARY FOR GROUNDING SYSTEM, TYPE, SIZE, MATERIAL AS INDICATED, INCLUDING BUT NOT NECESSARILY LIMITED TO:
 1. GROUNDING AND BONDING BUSHINGS.
 2. PROTECTIVE TYPE CLAMPS.
 3. BOLTED TYPE CONDUCTOR CONNECTORS.
 4. BONDING JUMPERS, STRAPS.
 5. PRESSURE WIRE CONNECTORS.
5. DO NOT USE CONDUIT AS GROUND CONDUCTOR. PROVIDE AN INSULATED GROUND CONDUCTOR IN ALL CONDUITS AND FROM THE UTILITY SUPPLY TO ALL PANELS.

FASTENINGS

1. ALL SCREWS, AND BOLT HEADS TO HAVE TORX SECURITY HEADS WITH CENTER REJECTION STUD. PROVIDE A TOOL FOR EACH SIZE USED ON THIS PROJECT.

EXECUTION

INSTALLATION OF CONDUITS AND CABLES

1. INSTALL CONDUITS TO CONSERVE HEADROOM IN EXPOSED LOCATIONS AND CAUSE MINIMUM INTERFERENCE IN SPACES THROUGH WHICH THEY PASS.
2. CONCEAL CONDUITS EXCEPT IN MECHANICAL AND ELECTRICAL SERVICE ROOMS AND IN UNFINISHED AREAS.
3. USE RIGID STEEL CONDUITS.
4. USE LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR CONNECTION TO MOTORS OR VIBRATING EQUIPMENT.
5. BEND CONDUIT COLD. REPLACE CONDUIT IF KINKED OR FLATTENED MORE THAN 1/10TH OF ITS ORIGINAL DIAMETER.
6. MECHANICALLY BEND STEEL CONDUIT OVER 19 MM DIA.
7. FIELD THREADS ON RIGID CONDUIT MUST BE OF SUFFICIENT LENGTH TO DRAW CONDUITS UP TIGHT.
8. INSTALL FISH CORD IN EMPTY CONDUITS.
9. WHERE CONDUITS BECOME BLOCKED, REMOVE AND REPLACE BLOCKED SECTION. DO NOT USE LIQUIDS TO CLEAN OUT CONDUITS.
10. DRY CONDUITS OUT BEFORE INSTALLING WIRE.
11. RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES.
12. RUN CONDUITS IN FLANGED PORTION OF STRUCTURAL STEEL.
13. GROUP CONDUITS WHEREVER POSSIBLE ON CHANNELS.
14. DO NOT PASS CONDUITS THROUGH STRUCTURAL MEMBERS EXCEPT AS INDICATED.
15. TY-RAP OR SIMILAR MATERIAL FASTENERS ARE NOT ACCEPTABLE FOR SECURING CONDUIT AND CABLES ABOVE CEILINGS.

INSTALLATION GROUNDING

1. INSTALL COMPLETE PERMANENT, CONTINUOUS, SYSTEM AND CIRCUIT, EQUIPMENT, GROUNDING SYSTEMS INCLUDING, CONDUCTORS, CONNECTORS, ACCESSORIES, AS REQUIRED, TO CONFORM TO REQUIREMENTS OF ENGINEER OWNER, AND LOCAL AUTHORITY HAVING JURISDICTION OVER INSTALLATION. WHERE EMT IS USED, RUN GROUND WIRE IN CONDUIT.
2. INSTALL CONNECTORS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3. PROTECT EXPOSED GROUNDING CONDUCTORS FROM MECHANICAL INJURY.
4. USE MECHANICAL CONNECTORS FOR GROUNDING CONNECTIONS TO EQUIPMENT PROVIDED WITH LUGS.
5. SOLDERED JOINTS NOT PERMITTED.
6. MAKE GROUNDING CONNECTIONS IN RADIAL CONFIGURATION ONLY, WITH CONNECTIONS TERMINATING AT SERVICE ENTRANCE MAIN GROUNDING POINT. AVOID LOOP CONNECTIONS.
7. PERFORM TESTS IN ACCORDANCE WITH ELECTRICAL GENERAL REQUIREMENTS.
8. PERFORM GROUND CONTINUITY AND RESISTANCE TESTS USING METHOD APPROPRIATE TO SITE CONDITIONS AND TO APPROVAL OF ENGINEER AND LOCAL AUTHORITY HAVING JURISDICTION OVER INSTALLATION.
9. PERFORM TESTS BEFORE ENERGIZING ELECTRICAL SYSTEM.
10. DISCONNECT GROUND FAULT INDICATOR DURING TESTS.



revisions		date
project	project	

GROUPS LIGHTING
DORCHESTER PENITENTIARY
MINIMUM SECTOR
 WESTMORLAND COUNTY

drawing dessin
CONSTRUCTION
NOTES

designed	KMR	conçu
date	JUNE 2013	
drawn	MML	dessiné
date	JUNE 14, 2013	
approved	MAL	approuvé
date	NOV 2014	
Tender	<i>Rym's Call</i>	Submission
PWGSC	Project Manager	Administrateur de projets
project number		no. du projet
	R.061816.001	
drawing no.		no. du dessin
	E-4	

