- LBS./ACRE) AS A MEANS OF TEMPORARY EROSION CONTROL IF THEY ARE TO REMAIN FOR LONGER THAN 60 DAYS.
- 5. ALL CLAY AND OTHER EXCAVATED MATERIALS NOT REQUIRED FOR FILL PURPOSES OR EMBANKMENTS SHALL BE REMOVED FROM THE SITE UPON EXCAVATION.
- 6. CONSTRUCTION INGRESS-EGRESS POINTS SHALL BE CONFINED TO DEFINED STONE PAVED DRIVEWAY CONNECTIONS TO THE ADJACENT STREETS, SAID CONSTRUCTION EXITS SHALL BE CLEANED DAILY, AS NEEDED TO PREVENT THE SPREAD OF MUD OR DEBRIS ON THE ADJAGENT STREETS.
- 7. THE STORM SEWER SYSTEM SHALL BE INSTALLED AS SOON AS EARTHWORK OPERATIONS PERMIT. AREAS AROUND DRAINAGE STRUCTURES WITHIN FUTURE PAVEMENT AREAS SHALL BE GRADED TO FINAL SUBGRADE CONTOURS SO AS TO INHIBIT DRAINAGE INTO THE STRUCTURES AND CREATE TEMPORARY

SEDIMENT TRAPS.

- 8. STRAW BALE SEDIMENT BARRIERS SHALL BE PLACED AROUND DRAINAGE INLETS WITHIN GRASS AREAS. WHERE GRADING TO PAVEMENT SUBGRADE LEVELS PRIOR TO INSTALLATION OF THE SEWER SYSTEM IS IMPRACTICAL, INLET STRUCTURES WITHIN PAVEMENT AREAS SHALL ALSO BE PROVIDED WITH STRAW BALE BARRIERS UNTIL EXCAVATION ACTIVITIES ARE COMPLETED.
- 9. TEMPORARY SEDIMENT BARRIERS SHALL BE INSTALLED AND MAINTAINED WHERE EARTHWORK OPERATIONS CAUSE OFF-SITE EROSION OR SEDIMENTATION PROBLEMS. SUCH BARRIERS MAY BE STRAW BALES OR A FILTER FABRIC FENCE IN SUBSTANTIAL CONFORMANCE TO THE DETAIL DRAWINGS INCLUDED IN THE PROJECT PLANS.
- 10. TOPSOIL REPLACEMENT AND FINAL GRADING SHALL BE DONE AS SOON AFTER THE INSTALLATION OF SITE IMPROVEMENTS WITHIN THE SUBJECT AREAS AS IS REASONABLY POSSIBLE. SEEDING, SODDING OR ANY OTHER SPECIFIED SOIL STABILIZATION MEASURES SHOULD BE DONE WITHIN 15 DAYS AFTER FINAL GRADE IS ESTABLISHED.

AREAS WHICH MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR LONGER THAN 60 DAYS SHOULD ALSO BE STABILIZED WITHIN 15 DAYS OF COMPLETION OF CONSTRUCTION ACTIVITIES WITHIN THE AREA.

11. PERMANENT GRASS AREAS WITHIN THE PROJECT SITE AND ALL REGRADED OR OTHERWISE DISTURBED AREAS WITHIN PORTIONS OF THE SITE NOT SUBJECT TO CONSTRUCTION OR DEVELOPMENT WITHIN ONE YEAR SHALL BE SEEDED (FERTILIZER AND SEED MIXTURE) AND MULCHED (STRAW OR WOOD FIBER WITH TACKIFIER) TO PROTECT AGAINST SOIL EROSION. RATES AND MIXTURES SHALL BE AS FOLLOWS:

FERTILIZER:

130 LBS. EACH OF N, P205 AND K20 PER ACRE.

SEED MIXTURE:

CREEPING RED FESCURE

16 LBS./ACRE

KENTUCKY BLUEGRASS

65 LBS./ACRE 4 LBS./ACRE

WHITE CLOVER

85 LBS./ACRE

NOTE: WHEN SEEDING BETWEEN NOVEMBER 2 AND MARCH 15, INCREASE SEED APPLICATION RATE BY 50%.

MULCH:

STRAW

90 BALES PER ACRE

WOOD FIBER

1200 LBS. PER ACRE

12. DISTURBED AREAS SUBJECT TO CONSTRUCTION OR DEVELOPMENT WITHIN ONE YEAR, BUT NOT WITHIN 60 DAYS, SHALL BE SEEDED WITH ONE OF THE FOLLOWING SEED MIXTURES AS A MEANS OF TEMPORARY EROSION CONTROL:

SPRING OATS - 100 LBS./ACRE (MARCH THRU JUNE) WHEAT OR CEREAL RYE - 150 LBS./ACRE (JULY THRU SEPTEMBER

- 13. SEED MIXTURES SHOULD BE APPLIED MECHANICALLY SO THAT THE SEEDS ARE PLANTED AT A DEPTH OF 1/4 TO 1/2 INCH. IF THE SEED IS BROADCAST OR HYDROSEEDED, SECONDARY RAKING OR HARROWING IS NECESSARY. ANCHOR STRAW AND WOOD FIBER MULCHES IN PLACE BY MEANS OF DISKING (STRAW ONLY) OR A CHEMICAL TACKIFIER.
- 14. SEEDED AREAS SUSCEPTIBLE TO SIGNIFICANT WIND OR WATER EROSION SHALL BE PROTECTED BY THE USE OF NETTING MATERIALS PLACED OVER THE APPLIED MULCH OR A STRAW BLANKET OR A BIODEGRADABLE FABRIC PLACED AND ANCHORED DIRECTLY TO THE GROUND. AREAS TO BE SO PROTECTED SHALL BE AS INDICATED ON THE ENGINEERING OR LANDSCAPING PLANS.
- 15. SODDING OR SPECIAL EROSION CONTROL MEASURES SHALL BE PROVIDED WHERE SPECIFICALLY INDICATED ON THE ENGINEERING OR LANDSCAPING PLANS.
- 16. ALL SEDIMENT BARRIERS SHALL BE REPLACED OR CLEANED AS NECESSARY DURING CONSTRUCTION WHEN! THEY BECOME CLOGGED. ALL SEDIMENT TRAPS AND CATCH BASINS SHALL BE CLEANED PERIODICALLY DURING CONSTRUCTION TO ALLOW THEM TO OPERATE EFFECTIVELY.
- 17. THE INSTALLATION AND MAINTENANCE OF ALL REQUIRED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE SUBJECT TO INSPECTION BY THE GOVERNING AUTHORITY. DEFICIENT CONDITIONS SHALL BE CORRECTED WHEN REQUIRED BY SAID AUTHORITY.

DUST CONTROL

- 1. WHEN DUST BLOWING FROM CONSTRUCTION SITES MAY BECOME A TRAFFIC HAZARD, OR A DANGER TO THE HEALTH OR COMFORT TO PERSONS DOWNWIND, IT SHALL BE CONTROLLED EITHER PERMANENTLY OR TEMPORARILY DEPENDING UPON THE STATE OF DEVELOPMENT OF THE SITE. DUST CONTROL MEASURES SHALL BE TAKEN WHEN REQUIRED BY THE GOVERNING AUTHORITY.
- 2. DISTURBED AREAS NOT SUBJECT TO NEAR TERM DEVELOPMENT OR CONSTRUCTION ACTIVITY SHALL BE STABILIZED AND SEEDED IN CONFORMANCE TO THE PROJECT SOIL EROSION SPECIFICATIONS. IF THE GROWTH OF SUCH VEGETATIVE COVER IS INEFFECTIVE DUE TO WIND OR WATER EROSION, RESEEDING SHALL INCLUDE A PROTECTIVE CHEMICAL MULCH BINDER OR BIODEGRADABLE BLANKET.
- 3. WHEN DUST PROBLEMS OCCUR FROM DISTURBED AREAS AND WEATHER CONDITIONS PREVENT EFFECTIVE EROSION CONTROL SEEDING, SUCH AREAS SHALL BE STABILIZED BY THE APPLICATION OF CHEMICAL TACKIFIERS SUCH AS "MARLOC" (RECLAMORE CO.) OR "SOIL SEAL" (SOIL SEAL CORP.). APPLICATION RATES AND PROCEDURES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 4. DUST PROBLEMS FROM ACTIVE CONSTRUCTION AREAS SHALL BE KEPT UNDER CONTROL BY MEANS OF WATERING DRY SURFACES AND/OR THE APPLICATION OF CALCIUM CHLORIDE.

APPLICATION AND REPETITION RATES SHALL BE AS NECESSARY FOR EFFECTIVE CONTROL.

5. IN THE EVENT OF SEVER DUST PROBLEMS, THE GOVERNING AUTHORITY MAY STOP SUCH DUST PRODUCING ACTIVITIES UNTIL THE PROBLEM IS RESOLVED.

STREET AND SITE LIGHTING

- 1. ALL WORK DONE AND MATERIALS USED IN CONNECTION WITH THE INSTALLATION OF STREET AND SITE LIGHTING FACILITIES SHALL CONFORM WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND THE APPLICABLE MUNICIPAL REGULATIONS. IN THE EVENT OF CONFLICT BETWEEN SAID CODE AND MUNICIPAL REGULATIONS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN. ALL MATERIALS AND EQUIPMENT USED SHALL ALSO BE IN ACCORDANCE WITH APPROPRIATE IES, NEMA AND UL STANDARDS.
- 2. LIGHT STANDARDS, LUMINAIRES AND WIRING TO BE PROVIDED SHALL BE AS INDICATED ON THE LIGHT DETAILS INCLUDED IN THE PLANS.
- 3. UNDERGROUND CABLE SHALL BE INSTALLED IN 2" GALVANIZED STEEL CONDUIT UNDER ALL PAVEMENTS. SUCH CONDUIT SHALL BE INSTALLED BEFORE PLACEMENT OF THE PAVEMENT AND SHALL HAVE ALL ENDS CAPPED. ALL ENDS OF THE CONDUIT SHALL BE MARKED WITH 2 X 4 STAKE WITH AT LEAST IT ABOVE GRADE AND "ELECTRIC CONDUIT" MARKED ON THE SITE.
- 4. UNDERGROUND CONDUCTORS SHALL BE INSULATED NO. 6 OR 8 STRANDED COPPER CABLE (SEE PLANS FOR SIZE). POLE WIRING SHALL BE INSULATED NO. 10 SOLID COOPER. CONDUCTOR INSULATION SHALL BE MOISTURE AND HEAT RESISTANT RUBBER OR THERMOPLASTIC MATERIAL OF A TYPE SUITABLE FOR USE AT 75 DEGREES C IN WET LOCATIONS. CABLE DUCT SHALL BE NEC APPROVED POLYETHYLENE TUBING SUITABLE FOR UNDERGROUND INSTALLATION.
- 5. ALL UNDERGROUND CABLE SHALL BE CONTINUOUS. NECESSARY SPLICES SHALL BE MADE IN THE LIGHT POLE OR IN CONCRETE HANDHOLES (IDOT STANDARD 2368). SPLICES IN HANDHOLES SHALL BE MADE WITH 3M SCOTCH CAST KITS OR APPROVED
- 6. CONTROLLER LOCATIONS AND SERVICE CABLE ALIGNMENTS (FROM POWER SOURCE TO CONTROLLER) ARE SUBJECT TO CHANGE DEPENDING ON MINAL ESTABLISHED LOCATIONS OF COMMONWEALTH EDISON SERVICE FACILITIES. CONTROLLER SERVICE CABLES SHALL BE INSTALLED IN CONTINUOUS 2" RIGID STEEL CONDUIT.
- 7. WHEN A CIRCUIT CONTROLLER IS USED, A PHOTO ELECTRIC CELL, COMPLETE WITH POLE TOP ADAPTOR AND RECEPTACLE SHALL BE INSTALLED ON THE LIGHT POLE NEAREST TO THE CONTROLLER AND CONNECTED TO THE CONTROLLER WITH A 3 WIRE (#12) CIRCUIT. WHEN INDIVIDUAL LIGHTS ARE CONNECTED TO COMMONWEALTH EDISON SERVICE PEDESTALS, A PHOTO ELECTRIC CELL SHALL BE PROVIDED ON EACH LUMINAIRE.
- 8. CONTROLLERS, SERVICE CABLES AND INDIVIDUAL LIGHT CABLES SHALL NOT BE INSTALLED UNTIL COMMONWEALTH EDISON PROVIDES FINAL PLANS FOR THE LAYOUT OF ITS FACILITIES AND THE ENGINEER SPECIFICALLY AUTHORIZES SAID INSTALLATION.

- 9. LIGHT POLES SHALL BE VERTICALLY PLUMB TO WITHIN ONE-HALF INCH PER TEN FEET OF TRUE VERTICAL, AS MEASURED FROM ANY DIRECTION
- 10. ALL INSTALLED WIRING SHALL BE TESTED FOR RESISTANCE TO GROUND. RESISTANCE SHALL BE MEASURED WITH A MEDGER GENERATING NOT LESS THAN 500 VOLTS NOR MORE THAN 1000 VOLTS.

MINIMUM RESISTANCE TO GROUND IS DEPENDENT ON THE LENGTH OF CABLE TESTED AND SHALL CONFORM TO LES STANDARDS FOR OUTDOOR LIGHTING SYSTEMS. ANY SECTION OF WIRING THAT FAILS THE TEST SHALL BE REPLACED AND RETESTED UNTIL SATISFACTORY RESULTS ARE ACHIEVED.

- 11. THE CONTRACTOR SHALL GUARANTEE AND WARRANT THAT THE EQUIPMENT, MATERIAL AND WORKMANSHIP, REGARDLESS OF THE MANUFACTURER, WILL FOR A PERIOD OF ONE (1) YEAR PROM THE DATE OF FINAL ACCEPTANCE, SATISFACTORILY SERVE THE PURPOSE FOR WHICH IT WAS INSTALLED. ANY DEFECTIVE EQUIPMENT, MATERIAL OR WORKMANSHIP SHALL BE REPAIRED OR REPLACED BY SAID CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.
- 12. THE CONTRACT UNIT PRICES FOR THE VARIOUS SITE LIGHTS SPECIFIED SHALL INCLUDE THE LUMINAIRE AND POLE, THE FOUNDATION, GROUND ROD, INTERNAL WIRING AND PHOTOGEGE INDICATED AND THE CIRCUIT CABLE CONNECTIONS.
- 13. THE CONTRACT UNIT PRICE FOR CONTROLLER SHALL INGELIGE FOUNDATION, GROUND ROD, CABINET, INTERNAL EQUIPMENT WIRING AND CONNECTIONS AND PHOTOCELL CIRCUIT.

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