



PROJECT NORTH  
**SITE UTILITY PLAN**  
 SCALE: 1"=20'-0"

**ELECTRICAL NOTE AND TAG LEGEND**

- DETAIL TAG  
DETAIL NUMBER  
SHEET DETAIL IS SHOWN ON
- ELECTRICAL CONSTRUCTION NOTE
- FIXTURE, AND  
BASE AS DETAILED

**GENERAL ELECTRICAL CONSTRUCTION NOTES:**

- 1) CONTRACTOR SHALL CUT AND PATCH AS REQUIRED DURING THE COURSE OF INSTALLATION OR AS SPECIFIED ON THE DRAWINGS.
- 2) ALL NEW ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL OTHER LOCAL, STATE AND NATIONAL CODES WHICH APPLY AS INTERPRETED I.D.O.T..
- 3) ALL WORK IS TO BE COORDINATED WITH ALL OTHER TRADES ON THIS PROJECT AND ELECTRICAL WORK INSTALLED IN A NEAT AND ORDERLY FASHION.
- 4) THE ELECTRICAL DRAWINGS ARE SCHEMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT, THE DRAWINGS SHALL NOT BE SCALED TO DETERMINE EQUIPMENT CONNECTION OR ROUGH-IN. REFER TO EQUIPMENT CUT-SHEETS AND RESPONSIBLE TRADES.
- 5) ALL CONDUCTORS OF THE ELECTRICAL SYSTEM SHALL BE COPPER, 600V, XLP - TYPE USE. CONDUCTORS FOR DIRECT BURIAL TO SERVE RV PEDESTALS SHALL BE ALUMINUM, RHW-2, TYPE USE.
- 6) ALL CONDUIT SHALL BE MINIMUM 3/4" TRADE SIZE, IMC WHEN INSTALLED INDOORS IN DRY LOCATIONS, RMC WHEN INSTALLED OUTDOOR OR INDOORS IN DAMP/WET LOCATIONS, RMC, LFNC WHEN EXPOSED OUTDOORS AND, RMC OR RNC-40 WHEN INSTALLED IN CONCRETE OR BELOW GRADE. FINAL CONNECTIONS TO ALL EQUIPMENT, WHICH PRODUCE VIBRATION SHALL BE WITH FLEXIBLE NON-METALLIC CONDUIT SUITABLE FOR THE SURROUNDING ENVIRONMENT. CONDUIT TURNING UP FROM BELOW GRADE OR FROM WITHIN CONCRETE SHALL BE RMC.
- 7) RACEWAY FILL, WHEN RACEWAY SIZE IS NOT SPECIFICALLY INDICATED, SHALL BE BASED ON APPLICABLE ARTICLES OF THE NEC.
- 8) CIRCUIT ROUTING, IN GENERAL, IS NOT SPECIFIED UNLESS SPECIFIC REQUIREMENTS EXIST, ROUTING OF CIRCUITS WILL HAVE EFFECTS ON CIRCUIT VOLTAGE DROPS. CONTRACTOR SHALL COORDINATE ROUTING LENGTH WITH CONNECTED LOAD AND ADJUST CONDUCTOR SIZE FOR A VOLTAGE DROP LESS THAN 3%.
- 9) ALL CONDUITS SHALL BE INSTALLED CONCEALED IN SPACES OF NEW CONSTRUCTION, WHICH ARE TYPICALLY OCCUPIED. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL EQUIPMENT WITH EXISTING CONDITIONS TO MAINTAIN ACCESS REQUIRED BY THE N.E.C. AND EQUIPMENT MANUFACTURERS.
- 10) SERVICE VOLTAGE AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ELECTRICAL ROUGH-IN. DISCREPANCIES BETWEEN THE ELECTRICAL DRAWINGS AND EQUIPMENT REQUIREMENTS SHALL BE REPORTED TO THE ENGINEER BEFORE ANY ASSOCIATED WORK IS INSTALLED.
- 11) INDEXES OF ELECTRICAL PANELS SHALL BE REVISED TO REFLECT COMPLETED WORK.
- 12) CONTRACTOR SHALL REFERENCE THE PROJECT SITE PLANS FOR ELECTRIC, TELEPHONE, CABLE T.V. AND ALL OTHER UTILITIES. EXECUTION OF NEW WORK SHALL BE COMPLETED TO AVOID AND PROTECT EXISTING UTILITIES. ANY DAMAGE TO EXISTING UTILITIES AS THE RESULT OF THIS PROJECT SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE DEPARTMENT.
- 13) THIS FACILITY WILL BE IN OPERATION DURING CONSTRUCTION, ALL OPEN EXCAVATION SHALL BE BARRICADED WHEN CONTRACTOR IS NOT PRESENT.
- 14) ALL TRENCHING SHALL MAINTAIN CLEARANCES FROM TREES, SINGLE TREES- TRENCH SHALL NOT PASS UNDER CANOPY, ADJACENT TREES- TRENCH SHALL PASS BETWEEN TREES AT A DISTANCE FROM EACH TREE PROPORTIONAL TO THE RESPECTIVE TREE CANOPY.

**# TAGGED ELECTRICAL CONSTRUCTION NOTES:(APPLY TO THIS SHEET ONLY)**

- 1) REMOVE EXISTING TIME CLOCK, LOCATED IN BASEMENT, SERVING OUTDOOR BUILDING LIGHTING, PROTECT TO REUSE. REMOVE ALL CIRCUITS CONDUCTORS AND CONDUIT WITHIN BUILDING CURRENTLY SERVING LIGHTING TO BE REMOVED. SEAL CONDUIT END WATERTIGHT AT BUILDING BOUNDARY. LABEL ABANDONED OVERCURRENT DEVICES AS SPARE. THE COST OF THIS WORK, INCLUDING ALL LABOR, EQUIPMENT AND MATERIAL, SHALL BE INCLUDED IN THE "REMOVE EXISTING LIGHTING SYSTEM" PAY ITEM.
- 2) REMOVE EXISTING TREE MOUNT LIGHT FIXTURE, BOXES AND HARDWARE. CARE SHALL BE TAKEN NOT TO DAMAGE TREE. REMOVE BRANCH CIRCUIT CONDUIT AND CONDUCTORS TO 1' BELOW FINISHED GRADE, BACKFILL THE HOLE, AND ABANDON REMAINING CABLE AND CONDUIT. THE COST OF THIS WORK, INCLUDING ALL LABOR, EQUIPMENT AND MATERIAL, SHALL BE INCLUDED IN THE "REMOVE EXISTING LIGHTING SYSTEM" PAY ITEM.
- 3) INSTALL A NEW 1P20A CIRCUIT BREAKER IN THE EXISTING PANEL AND FEED PHOTO CELL AND NEW SITE LIGHTING. INSTALL A 1P20A CIRCUIT BREAKER IN EXISTING PANEL TO SERVE NEW LIGHTS AND RECEPTACLE IN EXISTING MAINTENANCE BUILDING. ALL WORK WITHIN THIS SPACE WILL BE EXPOSED. LOOP SITE LIGHT CIRCUIT THROUGH TIME CLOCK. THE COST OF THIS WORK, INCLUDING ALL LABOR, EQUIPMENT AND MATERIAL, SHALL BE INCLUDED IN THE "LIGHTING SYSTEM COMPLETE" PAY ITEM.
- 4) CIRCUITS SHALL PENETRATE BUILDING WALL (SEAL WATERTIGHT) USING RMC TRANSVERSE SPACE BETWEEN BUILDING AND RETAINING WALL AND PENETRATE RETAINING WALL WALL SHALL BE PATCHED AND REPAIRED TO ORIGINAL CONDITIONS. ONCE AT 24" BELOW GRADE CHANGE TO RNC. THE COST OF THIS WORK, INCLUDING ALL LABOR, EQUIPMENT AND MATERIAL, SHALL BE INCLUDED IN THE APPROPRIATE CONDUIT PAY ITEM.
- 5) PROVIDE TRENCHING, CONDUIT INSTALLATION, BACK FILL AND SURFACE RESTORATION. ALL ROCK SHALL BE REMOVED TO MAINTAINED MINIMUM CONDUIT BURIAL OF 24". ROCK SHALL NOT BE USED FOR BACK FILL WHEN IN CONTACT WITH CONDUIT OR PLACE ON SURFACE. ROUTING OF CONDUITS SHALL AVOID TREE ROOTS WHEN POSSIBLE. THE COST OF THIS WORK, INCLUDING ALL LABOR, EQUIPMENT AND MATERIAL, SHALL BE INCLUDED IN THE "TRENCH AND BACKFILL FOR ELECTRICAL WORK" PAY ITEM.
- 6) CONDUITS SHALL BE ROUTED TO AVOID BUILDING FOUNDATIONS.
- 7) INSTALLATION OF CONDUIT UNDER SIDEWALKS SHALL BE COMPLETE SO AS NOT TO DISTURB SIDEWALK. EXCAVATE ON BOTH SIDES, JACK OR DRIVE SLEEVE UNDER SIDEWALK. SIDEWALKS SHALL NOT BE ALTERED IN ANYWAY. DAMAGE TO SIDEWALKS WILL BE REPAIR WITH LIKE MATERIALS TO MATCH EXISTING IN COLOR AND TEXTURE AT THE CONTRACTORS EXPENSE. THE COST OF THIS WORK, INCLUDING ALL LABOR, EQUIPMENT AND MATERIAL, SHALL BE INCLUDED IN THE APPROPRIATED CONDUIT PAY ITEM.
- 8) CONTRACTOR SHALL FURNISH AND INSTALL (2) FLUORESCENT FIXTURE EVENLY SPACE WITH IN THE BUILDING ON THE BOTTOM OF THE ROOD TRUSS, FIXTURES SHALL BE LITHONIA CAT.# EJS 2 32 120 GEB, OR APPROVED EQUAL, WITH ELECTRONIC BALLAST AND WIRE GUARDS. CONTROL LIGHT WITH WALL SWITCH ADJACENT TO DOOR. INSTALL TWO GFI DUPLEX RECEPTACLE ONE ON EACH INTERIOR SUPPORT POSTS. ALL CONDUIT WITHIN BUILDING SHALL BE IMC SURFACE MOUNTED EXPOSED. THE COST OF THIS WORK, INCLUDING ALL LABOR, EQUIPMENT AND MATERIAL, SHALL BE INCLUDED IN THE "LIGHTING SYSTEM COMPLETE" PAY ITEM.
- 9) RISE FROM BELOW GRADE WITH RMC AND L.B. INTO BUILDING, SEAL PENETRATION WATERTIGHT. THE COST OF THIS WORK, INCLUDING ALL LABOR, EQUIPMENT AND MATERIAL, SHALL BE INCLUDED IN THE APPROPRIATED CONDUIT PAY ITEM.
- 10) INSTALL NEW FIXTURE(S) AND FOUNDATIONS AS DETAILED.
- 11) INSTALL NEW PHOTO CELL WITH VIEW WESTERN HORIZON, LOOP OUTSIDE LIGHTING CIRCUIT SO AS TO CONTROL BASED ON AMBIENT OUTDOOR SUN LIGHT. THE COST OF THIS WORK, INCLUDING ALL LABOR, EQUIPMENT AND MATERIAL, SHALL BE INCLUDED IN THE "LIGHTING SYSTEM COMPLETE" PAY ITEM.

FILE NAME =	USER NAME = \$USER\$	DESIGNED --	REVISED -- 7/8/09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIERRE MENARD HOME/ KASKASKIA STATE PARK CAMPGROUND		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
\$FILES\$		DRAWN -- D.M.U.	REVISED -- 8/24/09						RANDOLPH	16	14	
		CHECKED --	REVISED --									CONTRACT NO. 46003
		DATE -- 3/10/08	REVISED --				SCALE: 1"=20'	SHEET NO. 15 OF 16 SHEETS	STA. _____ TO STA. _____	FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT		