



1 ELECTRICAL SITE PLAN
E1.1 1:1200

GENERAL NOTES:

- ALL EXTERIOR LIGHTING CIRCUITS SHALL BE ROUTED THROUGH LIGHTING RELAY PANELS AND CONTROLLED VIA PHOTOSENSOR AND TIMECLOCK. PROVIDE ROOF MOUNTED PHOTOSENSOR, FACE SENSOR TOWARDS TRUE NORTH. PHOTOSENSOR AND PHOTOSENSOR CONTROL CARD SHALL BE LIGHTING CONTROL & DESIGN MODEL # GR2400-PC1 2WO-SMNE4 WITH MOUNTING BOX.
- WHEN INSTALLED BEHIND THE CURB, POLE BUSES SHALL HAVE 3' CLEARANCE FOR ROADWAYS AND CAR PARKING AND 12' CLEARANCE TO TRAILER PARKING. IN GENERAL, LIGHT POLES SHALL BE ALIGNED WITH PARKING STRIPS WHEN INSTALLED ADJACENT TO PARKING AREAS.
- MINIMUM CONDUIT FOR SITE LIGHTING CIRCUITS SHALL BE #8 UNLESS NOTED OTHERWISE. MINIMUM WIRING SHALL BE #8 CU UNLESS NOTED OTHERWISE.
- COORDINATE LOCATION OF ANY POLE LIGHTS WITH ANY FIRE LINES. PROVIDE A MINIMUM OF 60" SEPARATION FROM FIRE LINE AND POLE BASES.
- ALL POLE LOCATIONS SHALL BE COORDINATED WITH LANDSCAPE ARCHITECT AND CIVIL ENGINEER PRIOR TO BEGINNING WORK.
- BUILDING MOUNTED LIGHT FIXTURES ARE MOUNTED AT VARIABLE HEIGHTS ABOVE THE FINISHED GRADE. REFER TO EXTERIOR LIGHTING FIXTURE SCHEDULE FOR MOUNTING HEIGHTS. REFER TO ARCHITECT'S ELEVATIONS FOR EXACT LOCATIONS.
- FOR ALL LOOSE UNDERGROUND CONDUIT, THIS CONTRACTOR SHALL USE PVC CONDUITS. IF ITS CONCRETE ENCASED CONDUITS, THIS CONTRACTOR MAY USE DB2 CONDUITS.
- WALL PACKS SHALL NOT BE LOCATED ABOVE THE MAIN ENTRY TO AVOID CONFLICTS WITH BUILDING SIGNAGE.
- COORDINATE LOCATIONS OF ALL BUILDING MOUNTED SIGNS WITH ARCHITECT AND MONUMENT SIGNS WITH CIVIL.

KEYED NOTES: (DENOTED BY ☉)

- PROPOSED TANK YARD LOCATION. NO ELECTRICAL SHALL BE PRESENT WITHIN 25' OF FUEL CELL PAD CONNECTION AS PER DETAILS 2.3E1.2.
- PROVIDE ALL NECESSARY TRENCHING AND DUCTBANK FOR FUEL PAD CONNECTIONS AS PER DETAILS 2.3E1.2.
1.4" C FOR H2
2.3" C FOR AIR POWER
4.15" C FOR UNLOADER, FIBER/SIGNAL, SPARE AND SPARE
2.1" C FOR LIGHTING E-STOP
- PROVIDE THE FOLLOWING AT THIS LOCATION:
A. PROVIDE 200A 3P 480V HD NR3 FUSIBLE DISCONNECT WITH #3500MCM CU TWIS - CU TWIS - 3" C, MOUNT AT 6' ABOVE GRADE TO THE TOP OF THE DISCONNECT SWITCH.
B. PROVIDE NEMA 3R 30A, 120V DISCONNECT & PHOTOCELL FOR PAD LIGHTING CONTROL. MOUNT AT 5' ABOVE GRADE TO THE TOP OF THE DISCONNECT SWITCH.
- PROVIDE CONNECTION OF MONUMENT SIGN (34V, DEDICATED 20A CIRCUIT). COORDINATE INSTALLATION WITH DRAWING PROVIDED PRIOR TO THE START OF ANY WORK.
- PROVIDE CONCRETE PAD AND UTILITY CONDUIT PER UTILITY COMPANY REQUIREMENTS. FIELD COORDINATE EXACT LOCATIONS, QUANTITIES AND ROUTING PRIOR TO THE START OF ANY WORK.
- PROVIDE (4) 4" CONDUIT WITH PULL TAPE FROM THE PROPERTY LINE TO THE MINIMUM POINT OF ENTRY AS IDENTIFIED BY THE UTILITY REPRESENTATIVE. MINIMUM 3' SWEEPING RADIUS - NO RIGHT ANGLES - NO MORE THAN THREE 9 DEGREE TURNS WITHOUT A PULL BOX. PATHS LONGER THAN 300' OR WITH TWO OR MORE 90 DEGREE TURNS WILL REQUIRE A PULL BOX. MINIMUM DIMENSIONS FOR AN IN-GROUND PULL BOX IS 17"x30"x24" DEEP OR 12"x12"x6" DEEP FOR OTHER APPLICATIONS ALL PULL BOXES WITHIN PAVEMENT AREAS SHALL HAVE TRAFFIC RATED COVERS.

- PROVIDE (6) CONDUITS TO PREFABRICATED GUARD HOUSE. PROVIDE (1) 3" FOR POWER, (1) 2" FOR DATA, (1) 2" FOR FIRE ALARM, (1) 2" FOR GAS, AND (1) 2" SPARE. PROVIDE ALL NECESSARY CONDUIT TO SECURITY DESK AS DETEILED BY TELECOM DRAWINGS. (MINIMUM (1) 2" CONDUIT). COORDINATE INSTALLATION OF ALL CONDUIT AND CONNECTION TO PANEL WITH GUARDHOUSE MANUFACTURER.
- PROVIDE ALL NECESSARY CONDUIT TO GENERATOR FOR CONTROLS, ATS CONNECTIONS AND POWER FEEDERS PER THE PLANS. PROVIDE POWER CONNECTIONS TO GENERATOR BATTERY CHARGER AND CRANK CASE HEATER. COORDINATE EXACT REQUIREMENTS WITH VENDOR PRIOR TO THE START OF ANY WORK. PROVIDE CIRCUITS PER MANUFACTURER SPECIFICATIONS.
- PROVIDE VERTICAL UNISTRUT SUPPORT (ANCHORED ON THE GROUND) WITH TWO 20A GFCI OUTLETS WITH WEATHERPROOF ENCLOSURES. OUTLETS TO BE MOUNTED TO VERTICAL UNISTRUT. CONNECT TO "PANEL EV".
- PROVIDE GFI WEATHER PROOF RECEPTACLE ON 6"x6" TREATED CEDAR POSTS WITH DEDICATED 20A FEED FOR BLOCK HEATER. COORDINATE LOCATION WITH CLIENT ON SITE.
- PROVIDE CONNECTION TO ILLUMINATED SIGNAGE. REFER TO ARCHITECT'S ELEVATIONS FOR EXACT LOCATION. COORDINATE EXACT ELECTRICAL REQUIREMENTS AND CONNECTIONS WITH SIGN INSTALLER PRIOR TO ROUGH-IN. ROUTE CIRCUITS THROUGH RELAY PANEL AND CONTROL WITH TIMECLOCK.
- PROVIDE (1) 1" CONDUIT TO PREFAB SHED. PROVIDE WITH PULL STRING. STUB 6' AFG, AP AND MARK.
- PROVIDE 2" UNDERGROUND CONDUIT FROM COMMUNICATION HUB TO THE NEAREST BUILDING LOCATION WITH CONDUIT STUB-UP AT 36" AFF. INSTALLED WITHIN THE BUILDING SUITABLE TO GET TO AN ADJACENT OVERHEAD CABLE STRUCTURE.

ELECTRICAL PRICING NOTES:

- ELECTRICAL CONTRACTOR SHALL INCLUDE IN PRICE ALL LABOR AND MATERIALS FOR PROVIDING POWER TO (4) IRRIGATION PANELS. LOCATIONS TO BE DETERMINED BY LANDSCAPE ENGINEER. 200' HOMERUN TO NEAREST 120V ELECTRICAL PANEL.
- ELECTRICAL CONTRACTOR SHALL INCLUDE IN PRICE ALL LABOR AND MATERIALS FOR PROVIDING POWER TO (4) "HOT BOXES" LOCATIONS TO BE DETERMINED BY CIVIL ENGINEER. 600' HOMERUN TO NEAREST 120V ELECTRICAL PANEL.

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DATE	REVISIONS
2021-12-02	ISSUED FOR 60% DRAWINGS
2021-12-17	ISSUED FOR TENDER
2022-03-25	ISSUED FOR COORDINATION
2022-03-25	ISSUED FOR FGMP
2022-05-24	ISSUED FOR SBEF2
2022-06-02	ISSUED FOR FGMP R1

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