



**City of Douglas  
Wastewater Treatment Plant  
PV Solar Array Addition**

**ADDENDUM #2**

**Date: August 5, 2015**

This addendum addresses questions comments and clarifications brought to the attention by proposing parties regarding **PW-2015-008 and PW-2015-009** during the question period. Reminder: Acknowledge receipt of this addendum on the Bid Form.

The Bid Due Date and Time have NOT been modified. Sealed bid shall be received until 3:00 PM Local Time, Wednesday, August 12, 2015, submitted to City Clerk, Douglas City Hall, 425 E. 10th St., Douglas, Arizona 85607.

**Attachments:**

1. Revised E1.1 Power Single Line Diagram
2. Revised E1.2 Electrical Overall Site Plan

**Questions & Clarifications:**

1. Why was the pre bid meeting changed from Mandatory to non-mandatory after the pre bid meeting was held?

*Response: Due to a delay in the public notice; the public notice did not get published until July 30th, after the pre-bid meeting.*

2. What is the strength of the concrete for the Parking Structure section 033000 and the Soil Report are quite vague on what will actually be required.

*Response: The design strength of structural concrete is 4,000 psi at 28 days. The strength requirement may be reduced with supporting calculations in the foundation plan submitted by the metal building manufacturer.*

3. What is the depth for the stem wall and columns (plans reference the manufacturers requirement)

*Response: The depth of the stem wall and pedestal footings depend on the building loads and shall be determined based on the foundation plan submitted by the pre-engineered metal building manufacturer.*

4. What will be the spacing on the joints for the concrete slab (section 03290 references the plans but none are shown on the plans)

*Response: Control joints shall be provided in slabs to control the location and extend of cracking. Control joints shall be spaced at no more than 16' O.C.*

5. Can we change from the 310 W 72 cell solar panels to the 260 W 60 cell panels provided the final wattage is equal or greater with the same warranty? We would be responsible to change the racking configuration to accommodate these other panels. Datasheet attached.

*Response: Yes, you can bid the 260 W 60 cell panels as an alternate, along with the base bid for the 310 W 72 cell panels. The Bidder will be responsible for updating electrical diagrams for the APS Interconnection Agreement and any other design impacts that will be required for City/County/APS approvals.*

*As noted on the Bid Form, there are Base Bid requirements that must be provided. The evaluation for Award of the project will be based on the Base Bid. The Bidder has the opportunity to provide bid alternates and the instructions are on the Bid Form. The Bidders and their engineers are responsible for the review of project information to determine if a possible alternate is acceptable for offering. Once the project is awarded, the Engineer (PACE) will review and provide a final determination of the proposed alternate(s) offered to verify it is acceptable for the project.*

6. Can we change the RMC risers to EMT risers?

*Response: No, since the conduit comes in contact with the earth and are outdoors, the risers are to remain RMC.*

7. What zone or distance is the project from the city for DBA calculations?

*Response: The zone definitions are detailed on the Wage Rate Decision included in the bid documents.*

8. The bid package shows DBA electrician rates. What are the rates for common solar panel installers and common laborers?

*Response: The Wage Rate Decision includes a minimum wage requirement as well as a website resource for contractor that includes additional information. [www.dol.gov/whd/govcontracts](http://www.dol.gov/whd/govcontracts).*

9. Can we document that the building solar does not need to be completed by the end of the year?

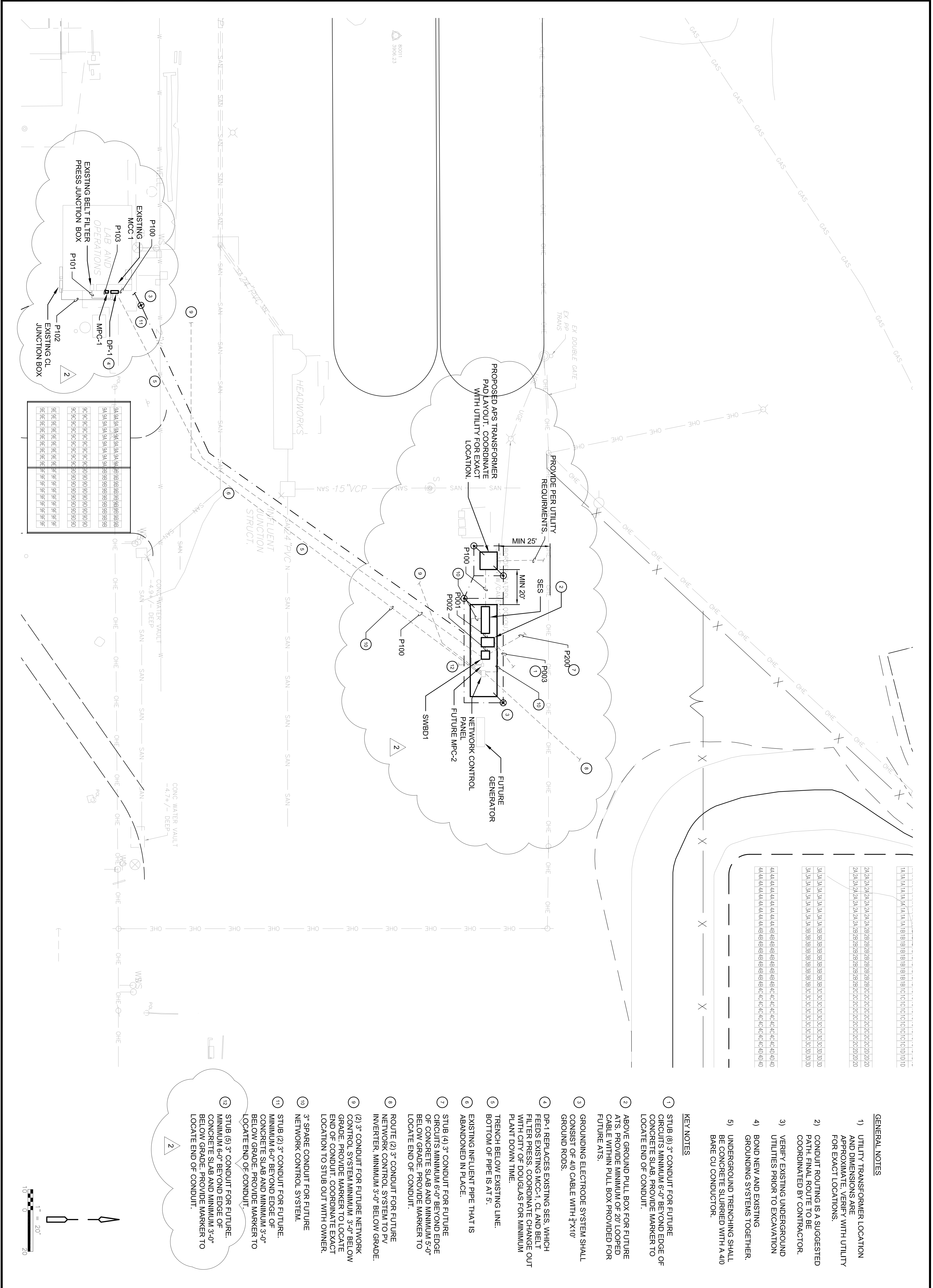
*Response: The NTP schedule described within the Information for Bidders calculates that both the final completion for both PW-2015-008 and PW-2015-009 shall be in the early part of January 2016, however, both contracts have other milestones and associated completion times.*

10. Does the Douglas SES contain all the hardware and breakers including the Solar breaker?

*Response: Yes.*







**GENERAL NOTES**

- 1) UTILITY TRANSFORMER LOCATION AND DIMENSIONS ARE APPROXIMATE. VERIFY WITH UTILITY FOR EXACT LOCATIONS.
- 2) CONDUIT ROUTING IS A SUGGESTED PATH. FINAL ROUTE TO BE COORDINATED BY CONTRACTOR.
- 3) VERIFY EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION
- 4) BOND NEW AND EXISTING GROUNDING SYSTEMS TOGETHER.
- 5) UNDERGROUND TRENCHING SHALL BE CONCRETE SLURRIED WITH A 4/0 BARE CU CONDUCTOR.

**KEY NOTES**

- 1) STUB (8) 3" CONDUIT FOR FUTURE CIRCUITS. MINIMUM 6'-0" BEYOND EDGE OF CONCRETE SLAB. PROVIDE MARKER TO LOCATE END OF CONDUIT.
- 2) ABOVE GROUND PULL BOX FOR FUTURE ATS. PROVIDE MINIMUM OF 20' LOOPED CABLE WITHIN PULL BOX PROVIDED FOR FUTURE ATS.
- 3) GROUNDING ELECTRODE SYSTEM SHALL CONSIST OF 4/0 CABLE WITH #1X10" GROUND RODS.
- 4) DP-1 REPLACES EXISTING SES, WHICH FEEDS EXISTING MCC-1, CL AND BELT FILTER PRESS. COORDINATE CHANGE OUT WITH CITY OF DOUGLAS FOR MINIMUM PLANT DOWN TIME.
- 5) TRENCH BELOW EXISTING LINE. BOTTOM OF PIPE IS AT 5'.
- 6) EXISTING INFLUENT PIPE THAT IS ABANDONED IN PLACE.
- 7) STUB (4) 3" CONDUIT FOR FUTURE CIRCUITS. MINIMUM 6'-0" BEYOND EDGE OF CONCRETE SLAB AND MINIMUM 5'-0" BELOW GRADE. PROVIDE MARKER TO LOCATE END OF CONDUIT.
- 8) ROUTE (2) 3" CONDUIT FOR FUTURE NETWORK CONTROL SYSTEM TO PV INVERTER. MINIMUM 3'-0" BELOW GRADE.
- 9) (2) 3" CONDUIT FOR FUTURE NETWORK CONTROL SYSTEM. MINIMUM 3'-0" BELOW GRADE. PROVIDE MARKER TO LOCATE END OF CONDUIT.
- 10) 3" SPARE CONDUIT FOR FUTURE NETWORK CONTROL SYSTEM.
- 11) STUB (2) 3" CONDUIT FOR FUTURE. MINIMUM 6'-0" BEYOND EDGE OF CONCRETE SLAB AND MINIMUM 3'-0" BELOW GRADE. PROVIDE MARKER TO LOCATE END OF CONDUIT.
- 12) STUB (6) 3" CONDUIT FOR FUTURE. MINIMUM 6'-0" BEYOND EDGE OF CONCRETE SLAB AND MINIMUM 3'-0" BELOW GRADE. PROVIDE MARKER TO LOCATE END OF CONDUIT.

NO	BY	DATE	REVISIONS	DATE	APP.
1	BC	8/5/15	ELECTRICAL MODIFICATIONS		

PREPARED BY: R. BEN CANFIELD  
 PROJECT ENGINEER  
 R.C.E. NO. 1 - AZ #39536  
 EXP. 9/30/2015  
 DRAWN: WRC  
 DESIGNED: RBC  
 CHECKED: RBC  
 DATE: MARCH 2015

TITLE: **ELECTRICAL SITE PLAN**  
 JOB: **DOUGLAS WWTP SOLAR PV ARRAY ADDITION**  
 LOCATION: **DOUGLAS ARIZONA**

SHEET **E1.2**  
 OF 2 SHEETS  
 JOB NO. A324