

Blue highlighting = previous response to Question has been updated in this posting: Q# 5, 19, 35, 75, 82

Delaware Department of Transportation
QUESTIONS AND ANSWERS
T201680104.01

Yellow highlighting = previous questions answered in this posting: Q# 26, 41, 49, 68, 85 through 86, 89, 91, and 92

ST. GEORGES MAINTENANCE YARD IMPROVEMENTS, NEW CASTLE COUNTY
Tuesday, August 22, 2017

Q #	Question	Answer
106	Please direct us to the appropriate location or provide specifications for the Electrical Reels required at the lube bays	<i>Response forthcoming...</i>
105	Please clarify the quantity and type of hose reels. According to the Lube Specs-2 oils + ATF + Hyd + Anti-freeze + Grease + Air + Electric = 8 reels. Only 7 reels are called out on the sheet MB-A-103.C11	<i>Response forthcoming...</i>
104	Lube reels are called out to be 75' on drawings but specifications require 50' please advise which is correct.	<i>Response forthcoming...</i>
103	In the event of a conflict between the DelDOT Standard Specs, Drawings and Project Specifications (appendix A) which document takes precedent?	<i>Response forthcoming...</i>
102	Per Truss Plate Institute requirements please provide wood truss permanent bracing plans for the project.	<i>Response forthcoming...</i>
101	Section 061600 Sheathing para. 3.2.B.1.a states to apply a bead of glue to wall panel edges. Please confirm this is required. Also please confirm that roof panel edges are not required to be glued.	<i>Response forthcoming...</i>
100	Detail 9 / CO - S -502 calls out for solid blocking at roofing panel edges while specification section 061600 Sheathing calls for the use of H clips at panel edges. Please confirm if either method is acceptable for treatment of roof sheathing panel edges.	<i>Response forthcoming...</i>
99	Detail 10 / CO-S - 502 requires the use of 10' sheathing to execute the detail as shown. Is 8' sheathing acceptable along with solid blocking at the panel edge?	Yes, 8' sheathing is acceptable.
98	Please define locations where Hold Down Detail 8 / CO-S-502 is required. Detail 10 on same sheet states at end of walls only (8 required). Please confirm.	Hold Down Detail 8 is required at end of walls only, which is four (4) each.

Q #	Question	Answer
97	Will panel LC, on drawing CO-E-104, remain a breaker controlled lighting panel, answered in question # 14, to be equal to Hubbell # LXBC series? These will be controlled with the use of a single PC and the Graphical User Interface Module included with this style panel, correct?	<i>Response forthcoming...</i>
96	Drawing MB-E-101 shows an Addendum # 3 “cloud” left of Fluid Storage Room 107, which omits the original PC show to Panel LP, circuits 2 & 4. Does the control of the building façade lighting now fall to the PC symbol, shown on drawing MB-E-201 outside of Fluid Storage Room 107 under power and special systems? This PC was not shown on the lighting plan (sheet 111) as controlling the façade lighting. Would you please clarify?	<i>Response forthcoming...</i>
95	It appears from the information on Addendum # 3, and drawing # MB-E-101, Sheet Key Notes: 1 and 2, that the originally described Hubbell series LXBC lighting control panelboard is being omitted for a “standard” breaker panelboard. Is this correct? It was not mentioned in any specific detail, and the question and answers for # 13 was NOT stated to be omitted, but merely referred to Addendum # 3.	Yes, that is correct.

Monday, August 21, 2017

94	Are the two buildings going to have the same key system? Also if they have the same key system what manufacture locks are required? Make and model. Crew building states Medeco standard key system provided by Allied Lock and Safe Maintenance Building states Factory registered, match owners existing system.	<i>Response forthcoming...</i>
93	Project information item 5 on MB-A-100 states that a sprinkler system is not required for the maintenance building. MB-FP-101 shows a sprinkler system in the maintenance building. Please clarify.	<i>Response forthcoming...</i>
92	Is the gas meter on the maintenance building provided by the utility company?	Yes.
91	Please provide a specification for the metal canopy on the maintenance building.	No spec is provided as it is part of the scope of the pre-engineered metal building.

Q #	Question	Answer
90	Item 14 of the toilet accessory schedule on drawing MB-A-401 lists a fixed shower bench. This item does not appear on the floor plan, 1/A401. Please clarify. If it is required, please indicate if it's wood, plastic laminate, or what material you would like.	<i>Response forthcoming...</i>
89	There is FRP wall paneling in room 109 of the maintenance building. Wall note 3 on A-603 states that the height of the paneling is between 4' and 14'. I don't know what this means. Please clarify the height of the FRP wall paneling in room 109.	FRP wall paneling in Room 109 of the Maintenance Shop is not required.
88	The wall sections of the maintenance building (reference 1/A304) state "8'-0" long concrete apron, refer to struct.". None of the other drawings (architectural, structural, or civil) show or refer to concrete aprons outside of the overhead door or man door openings. Please clarify.	<i>Response forthcoming...</i>
87	The maintenance building drawings show spray fireproofing on the mezzanine deck. Please confirm that this is the only area of this project that requires spray fireproofing. Also, please provide a spec.	<i>Response forthcoming...</i>
86	The elevations of the maintenance building refer to the high window openings as "aluminum windows". The wall sections refer to these window openings as "translucent panels". Please clarify and provide a specification if the openings are translucent panels.	Windows are correctly shown on exterior elevations as Fixed Aluminum Windows. See revised specification 085113 and revised sheets MB-A-303 & MB-A-304 in upcoming Addendum 3.
85	Is room signage required at the maintenance building? If so, please provide a schedule or quantities.	No, it is not required.
84	The architectural drawings show a masonry foundation wall for the maintenance building, but structural drawings show a concrete foundation wall. Please clarify.	<i>Response forthcoming...</i>

Thursday, August 17, 2017

83	There are responses to several questions that refer to revised drawings to be included in addendum #2 but there doesn't seem to be any new drawings with addendum #2- please advise.	Responses to the following questions have been revised to refer to <u>Addendum 3</u> , not Addendum 2: Questions 13, 18, 28, 30, 32, 34
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Tuesday, August 15, 2017

82	The wage rates do not include a rate for Insulators- what rate should be used?	See revised Question 5 response issued 8/17/17. The Insulators rate would be \$26.02 for this project.
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Friday, August 11, 2017

Q #	Question	Answer
81	Please provide details of the fencing and gate shown on drawing 5.	Please refer to response to Question 4 and 36, and also reference the DeIDOT Standard Specifications, Section 727.03.4.
80	Paragraph 2.4.C of the Wire Mesh Partitions, section 102213, of the maintenance building mentions wire mesh ceilings. The drawings do not show any wire mesh ceilings. Please confirm that there are none.	Confirmed. There are no wire mesh ceilings in the maintenance building.
79	Paragraph 2.4 of the Thermal Insulation spec, section 072100, of the crew operations building mentions spray foam insulation. Please confirm that there is no spray foam insulation on this project.	Spray Foam Insulation is only required in miscellaneous voids and cavity spaces where required to prevent gaps in insulation, per 072100-3.3C.
78	There is a spec section for bituminous damproofing at the crew operations building, but none is shown on the drawings. Please clarify.	Provide damproofing on foundation walls.
77	There is no designation for fire ratings at the crew operations building. Please confirm that none of the wood wall framing, sheathing, trusses, etc. at the crew operations building has to be fire rated.	No fire ratings required.
76	Paragraph 2.8 of spec section 033000 – Cast-in-Place Concrete describes a slip resistive finish of aluminum oxide aggregate. Please confirm that this does not apply to this project.	This note does not pertain to this project. All concrete left exposed at the completion of the project shall be treated with a clear penetrating acrylic base polymer capable of preventing infiltration of water born chlorides such as Conspec #1 by Conspec Marketing & manufacturing company or approved equal.
75	The project specs include Highway Construction prevailing wage rates. The majority of this contract is building construction. Please clarify.	See revised Question 5 response issued 8/17/17. Please see responses to Questions 5 and 35.
74	Please provide specifications for the overhead crane at the maintenance building.	The spec for the overhead crane will be provided via addendum.
73	Card readers and security work is typically by the owner. Please clarify if security and card readers are part of this contract.	The card readers are excluded, but the conduit rough in is the responsibility of the contractor.
72	Please provide specs for the fiberglass column covers at the crew operations building.	Provide 10" round plain Permacast Column bu HB&G with colonial cap and base, or equal.
71	Do the closets in room 107 and 110 of the crew operations building receive a shelf and rod?	Provide wooden shelf and metal rod in closets 107 and 110 of the Crew Operations Buidling.
70	Drawing 18 shows a production well. Is this part of the contract? If so, please provide additional information (detail, specs, depth, etc.).	The production well is to be installed by the contractor. Well production must meet 100 GPM. All costs associated with the design and construction of the well is incidental to Item 614508 - Water Main and Accessories.

Q #	Question	Answer
69	Who owns the gas service on Drawing 18? Will the owner and utility company provide this? Or is it part of the contract?	Delmarva power will install the gas service to a location on the south of Lorewood Grove Road for tie-in to the site.
68	<p>Note 2 on Drawing 18 states that the electrical service along Lorewood Grove Road will be constructed by others. Key Note 1 on Drawing 21 states to jack and bore two 5” conduits under Lorewood Grove Road. Please clarify the following regarding the electrical service:</p> <p>a. Please clarify what the owner and Delmarva owns, and what is expected to be included in this contract. A revised drawing 18 would help.</p> <p>b. Does Delmarva own furnishing and installing the transformer? Or will Delmarva furnish the transformer and the electrician install it?</p>	<p>a) The work for getting the electric service from the pole across the street to the site is the responsibility of the contractor.</p> <p>b) Delmarva owns the transformer and meter. Delmarva will bill the owner for that work.</p>
67	Drawing 18 has a note that states, “ITMS conduit and junction wells to be installed by others”. Note 4 on the same drawing states, “ITMS conduit to be installed by contractor”. Please confirm if the ITMS conduit is part of this contract.	The contractor is responsible for the ITMS conduit on the site but not the cables. The note on Sheet 18 that states, “ITMS conduit and junction wells to be installed by others” is referring to others providing the ITMS conduit along Lorewood Grove Rd up to the junction well at the northeast corner of the yard.
66	Please confirm that the box noted as “Brine” on drawing 18 is not part of this contract. If it is part of the contract, please provide specs.	The contractor is only responsible for the “Paving Section B” described on Sheet 5 for the Brine Pad.
65	Does the contractor own storm water management as-builts?	Yes, the storm water management as-builts are the responsibility of the contractor.
64	Does the contractor own CCR reports?	The contractor is not responsible for writing the reports but must have a CCR certified representative at the required walkthroughs.
63	Please provide a specification for the flag pole. Also, please confirm that the flag itself is not part of the contract.	A flag pole spec is provided under Item #763502 ‘Site Furnishing.’ The flag itself is not part of the contract.
62	Please confirm that testing of soils, concrete, steel, etc. is by the owner.	Quality assurance, geotechnical observation, and special testing and inspections will be provided by DelDOT. Per Section 106.02, “The contractor is responsible for quality control of the materials as defined in Division 1000 and is responsible for the condition of the materials until the project is accepted.”
61	Please confirm that updating CAD files with as-built changes is not part of the contract.	Correct, it is not part of the contract.

Q #	Question	Answer
60	Please clarify the railing composition. Detail 4/MB-a-302 shows a three line rail. Detail 1/MB-A-305 calls out expanded mesh infill. Detail3/MB-A-402 shows a three line rail, but calls out 1" pickets. Please advise.	Please see updates to railing in upcoming addendum.
59	Please refer to detail 2/MB-A-305. As shown the joists do not have sufficient bearing since the joist bearing plate is not shown (6"). Instead could a HSS8x2x1/4 be used as a screed as well as a base for the railing? It could be welded to the joist, assuming a 5" seat height was o.k	<i>Response forthcoming...</i>
58	Please refer to spec MB 051200. Can the AISC Certification be waived?	The requirement for the installer to be certified (MB-051200.1.7.B) can be deleted. All other certification requirements in the section shall remain.

Wednesday, August 09, 2017

57	On A-901 (door schedule) notes both hardware set 11 and 12. These sets do not exist on the hardware schedule (spec 87100) Please issue correct hardware sets, with door numbers.	There are two (2) hardware sections- one for the Crew operations building (designated CO), and one for the maintenance building (designated MB). Both sections correctly reference their respective drawings. Bidders should ensure they are referencing the correct hardware section.
56	Hardware schedule in spec 87100 does not list any of the correct door numbers.	There are two (2) hardware sections- one for the Crew operations building (designated CO), and one for the maintenance building (designated MB). Both sections correctly reference their respective drawings. Bidders should ensure they are referencing the correct hardware section.
55	Openings 102B and 109 are both on the floor plan but not on the door schedule .	See revised sheet CO-A-901 with updated door schedule in upcoming addendum.
54	Sheet CO-E-201/MB-E-201, General Note 6, please clarify the ownership of all door hardware as this is not normally part of the electrical package.	Electrical contractor shall provide all required electrical conduits and boxes.
53	Sheet CO-E-002/MB-E-002, General Note 49 indicates PVC coated rigid to be used in areas prone to pollution. Please advise what areas are prone to pollution.	This is a general note; areas prone to pollution are outdoor areas. However, there should be no exposed outdoor conduits in these buildings.

Q #	Question	Answer
52	Sheet CO-E-002/MB-E-002, General Note 41 & 46 state the use of galvanized rigid conduit but specification section 26001 2.1, f, a-f indicate the use of EMT as well as MC cable. Please clarify.	All wiring shall be installed in conduit. The use of EMT is allowed only concealed in ceilings and interior walls and partitions.
51	Sheet CO-E-002/MB-E-002, General Note 38 please clarify the ownership of all the devices as these are not normally supplied in the electrical package.	General note suggests a coordination with mechanical division to provide the control and power wiring for the mentioned devices. It is not referring to the devices specifically.
50	If there is going to be a networked Fire Alarm system fiber optic cable must be run between each building to enable communication between the Crew Ops FACP & Maintenance Shop FACP.	The site wiring between buildings will be done by others through a separate contract.
49	Drawing CO-E0401 & Drawing MB-E-401 each reference Schematic 1 – “Fire Alarm Riser Diagram”. This schematic does not display any sort of network capability between the two buildings. Furthermore it references “Autodialer with two dedicated phone lines to UL Listed Central Station”. Per Delawares 2016 Fire Code update two dedicated POTS lines are no longer an acceptable method of communication/monitoring.	Provide a fire panel that will utilize an Ethernet (network) connection as the primary and a POTS or Ethernet as the secondary connection.
48	Divison 28 - Section 283111 - Page 1 - Paragraph 2 : “1.2 System Description” States: “Non-coded, addressable system, with multiplexed signal transmission dedicated to fire alarm service only”. In reference to the “multiplexed signal transmission” is it the intent of the owner to have a networked Fire Alarm system in the multiple buildings, to enable the owner to only pay one monitoring fee for the entire site.	Yes, it should be networked. See Question 50.
47	Section 260001, 2, F, h – electrical feeder distribution conduits within building shall not be in the concrete slab or underground. Please confirm all conduits will stub up on the exterior of all buildings and enter building via LB type conduit fitting.	Section 260001, 2, F, h will be amended in upcoming addendum. Please provide underground conduits for building incoming service as shown on site plans.

Q #	Question	Answer
46	<p>General Note: all metal building Engineering & construction by metal building manufacturer.</p> <p>What is their scope of this?</p> <p>Are they responsible for the steel for the overhead crane? If not what column and beam sizes are requested?</p> <p>Are they responsible for the steel protective angle at all door openings as noted on 1/MB-A-304?</p> <p>Are they responsible for the 9" channel for the overhead door? Presume Yes?</p> <p>Are they responsible for the steel lintels as noted on 6 & 7/MB-A-602?</p>	<p>The PEMB manufacturer is responsible for all components of their building system from the column baseplates up, please refer to "Metal Building System" general notes on S001 and the specs.</p> <p>They are responsible for the overhead crane.</p> <p>They are not responsible for the protective steel angle at the door openings in the SOG.</p> <p>They are responsible for the 9" channel for the overhead door and for the steel lintels.</p>
45	<p>This job bids in one week. When will the pre-bid meeting minutes be posted?</p>	<p>Please see addendum No. 2.</p>

Monday, August 07, 2017

44	<p>Sheet 29/116 CO-A-101 the stated scale of 1/4"=1'0" does not match the string dimensions on the plan. Please advise</p> <p>Sheet 71/116 MB-A-101 stated scale of 1/8" = 1'0" does not match the string dimensions on the plan</p> <p>Sheet 90/116 MB-S-101 stated scale of 1/4" = 1'0" does not match the string dimensions on the plan</p> <p>Please correct the drawings so that the stated scale matches the drawing dimensioning.</p>	<p>Sheets will be updated via addendum.</p>
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Friday, August 04, 2017

43	<p>Please provide Automatic Temperature Control Specifications for the Maint Building and Crew Ops building</p>	<p>Specifications for each building will be included via addendum.</p>
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Q #	Question	Answer
42	Drawing MB-M-101 indicates "CO" on columns C-2,4/ E 2 / F 4 and on the wall the wash bay. Assume these are intended to indicate Carbon Monoxide sensors however no specs or explanation is provided in the documents. Also the sequence of operation on sheet MB-M-701 does not acknowledge the CO sensors. Please advise the manufacturer/ model of the CO sensors and their interaction with the building mechanical system	Specifications for the CO sensors are included in section 233300.2.8.C. The shop and wash bay exhaust fans shall energize in the event of a CO reading above setpoint (25 ppm, adj.).
41	Is there a boring log available that shows existing topsoil depths and the thickness of the existing parking lots hot mix and stone?	Boring logs will be posted to the website.
40	Sheet MB-E-101, door E6 indicates a XWP fixture – is there a catalog number for this fixture?	Provide waterproof exit sign similar to Barron-Exitronix Series NAV-NC-R-1-W-IH1 or approved equal.
39	Sheet S-E-205, detail 4 and 5; with using the braided strap to bond the lid this will limit the swing of the lid when opening – are Quazite style boxes acceptable?	Substitution requests need to be provided for all alternate items. The package shall meet all the requirements of Specification Section 012500.
38	Sheet S-E-204, detail 4; shows 24" min cover on two (2) 5" conduit. This is primary HV cables – is the 24" min cover correct?	Sheet S-E-204, detail 4; shows 24" min cover on two (2) 5" conduit. Coordinate exact primary incoming service with Delmarva Power as indicated in General Note No. 1 on sheer S-E-201.
37	Sheet S-E-201, keynote 10; need to identify where the feed will come from for this panel as well as the size of the panel and what size MCB.	12 circuits panelboard with 30A Main Circuit Breaker is indicated on Drawing S-E-201 key note 10. Feeder for this panel is indicated with a drawing symbol for Conduit/Wiring description shown on drawing S-E-201. Please see Conduit/Wiring schedule ID's "F", "J", "N" and "O". on drawing S-E-202, which indicated that the panel is fed from panel "CO". located in Crew Operations building. Refer to drawings for Crew Operations building, sheet CO-E-501 for "CO" panel board schedule.
36	Please specify. What type gate is used for the 30' opening in the fence Steel slide, Alum. Slide or Double Drive Swing gate.	For the gate at the south end of the yard, use a double swing with pad lock, having a total width of 20'.
35	The wage rates provided don't have a rate for plumbers. What rate should be used?	See revised Question 5 response issued 8/17/17. The rate to be used for Plumber for New Castle Highway is \$30.94. for the T201680104 project.

Q #	Question	Answer
34	On sheets MB-A-303 detail 2 and on MB-A-304 detail 1 shows a "translucent panel 3'0"" over the coiling doors but on the elevations they are shown as "aluminum windows with insulating glass". The window details don't show these openings at all. Please clarify what these windows are.	See response to Question 30.
33	Please confirm no slope and no floor drains are required in the Repair Shop Area Floor 108.	The maintenance building floor should be sloped approximately 1% (1/8" per foot) with the crown along Column 3. This update/change will appear via Addendum in the concrete spec to include flatness criteria.
32	Section MB22124 – 2.12.B Lubrication Tank Schedule does not match the tank sizes on sheet MB A-103 for the same fluids. Also, the tank schedule in section MB 22124 does not address the waste oil and waste hydraulic oil storage tanks. Please advise with specifications for the waste oil and hydraulic oil tanks and confirm all tank sizes and quantities.	Remove the 250 gallon double walled waste oil recovery tank (Equipment #24 on Sheet 73). Still provide the 500 gallon double walled hydraulic recovery oil tank, based on spec provided in upcoming Addendum 3 . The correct tank quantities and sizes are as follows (note: they are incorrect on sheet 73): (1) 15-40 Motor Oil: 250 gallons (1) 10-30 Motor Oil: 60 gallons (1) Coolant: 120 gallons (1) Lubricant oil: 55 gallons (1) ATF: 120 gallon (1) Hydraulic Oil: 250 gallon
31	Is DeIDOT providing the geotechnical observation, special testing and inspections, and field quality control for the project?	Quality assurance, geotechnical observation, and special testing and inspections will be provided by DeIDOT. Per Section 106.02, "The contractor is responsible for quality control of the materials as defined in Division 1000 and is responsible for the condition of the materials until the project is accepted."
30	Maintenance Building exterior elevations indicate Aluminum Storefront framing and glazed transoms above the overhead doors. The openings are not addressed on the typical window and door detail sheet MB A 601 furthermore, Spec section MB-085113 covers operable window only not fixed windows as indicated. Section detail 2/MB-A-303 states translucent panel at transoms. Please clarify the transom material.	Windows are correctly shown on exterior elevations as Fixed Aluminum Windows. See revised specification 085113 and revised sheets MB-A-303 & MB-A-304 in upcoming Addendum 3 .

Q #	Question	Answer
29	Please confirm the jack and bore for the electrical service running under Lorewood Rd is to be provided under this contract.	The work for getting the electric service from the pole across the street to the site is the responsibility of the contractor.
28	Sheet 5 Wash Pad Forebay detail shows 6" p.c.c. concrete noted as pay item 610009. This pay item is not included in the Schedule of pay items in the proposal package. Please advise	Item #610009 PCC Masonry, Class B, will be added in the upcoming Addendum 3 .
27	Please provide the width of the footing for the monument sign	The footing shall be 12'-0" L x 3'-0" W.
26	Confirm no reinforcement is required in the 12" thick concrete paving section detail B shown on sheet 5	Confirmed, it is not required.
25	Please provide length and width dimensioning for the tank pad, fueling apron, brine pad and electric pad.	The tank pad will be 22' X 17' with a 4.8' X 10' connection to vehicle area (Approx 422 SF). The brine pad will be 30' X 20' (600 SF). The electric pad will be 25' X 50' (1250 SF).
24	Pay item 501006 calls for a 12" thick pad and is to be used to pay for the tank pad, electric pad, brine pad and fueling apron. The curb details for the tank pad appear to call out an 8" thick slab. please advise with the correct thickness of the tank pad.	The correct thickness of the tank pad is 12", therefore, the curb encasement should read "12" on the front face, and not 8".
23	Please detail the scope of work to be included in item 763504 Sitework	Refer to special provisions for Item #763504.
22	The schedule of pay items does not include clearing and grubbing, excavation and embankment, and site electrical conduit and wire. Please advise.	These items are paid for under Item #763504 Site Work.

Tuesday, August 01, 2017

21	Drawing CO-A-301 and Table of Contents call for sheet vinyl flooring, however spec section 096516 is not included. Please advise.	The spec for vinyl sheet flooring is in Appendix A on pages CO-096516-1 to CO-096516-4.
20	The advertised contract duration of 620 days seems excessive for the scope of work to be completed. If the successful bidder based their proposal on a contract duration less than the advertised duration what are LD's and damage claims based from? The advertised duration or the agreed upon construction schedule?	The contract shall be bid according to the advertised contract duration. As per Section 108.04.A, "Fully use, but do not exceed, the specified Contract duration in the Progress Schedule Chart (PSC)."

Q #	Question	Answer
19	The proposal packet contains only the Delaware State Prevailing Wages for “Highway Construction”. Please confirm that these are the only wages to be used for the project AND that “Building Construction” Wages are not to be used for the construction of the Driver’s Training Building and Maintenance Shop.	See revised Question 5 response issued 8/17/17.

Friday, July 28, 2017

18	There are columns shown on the MB-A-101 at D2 & D4 but there are no footings shown for these on the foundation plan MB-S-101. How are they being supported?	Provide a 5’x5’x1’-6” column footing at gridlines D2 & D4 on sheet S101 per detail 2/S501. See revised sheet MB-S-101 in upcoming Addendum 3 .
17	There is no spec for the stone veneer on the sign, what product is to be used here?	The stone veneer should be thin split manufactured stone, or similar.
16	a. I looked on the drawings for a mounting detail for the fueling station panelboard and did not see one. b. What additional branch breakers are required for the fueling station panelboard?	a) Panel board is designed to be surface mounted, provide a strut channel structure for panel installation. Exact panel location shall be coordinated in field with all trades involved. b) Provide six (6), 20A, 120V, 1 pole, branch circuit breakers.
15	I would like to ask for a clarification on the electrical panelboard feeding the fueling station. After reviewing Sheet drawings # 10, and # 11, of the Construction Details, plus drawing # S-E-201, Key Note 10, I was looking for any mounting details, or a defined “Classification” of the requested Panelboard for the Fueling Station. Key Note 10, refers only to a panel manufactured by Hubbell – Killark, in a NEMA 4X enclosure, but also refers to providing sealing fittings for Hazardous Locations, equal to Hubbell – Killark # ENY-3. What classification do we have to adhere to for the panelboard, and its mounting location? Will it be Class 1, Division 1 or perhaps Class 1, Division 2, etc.?	Per manufacturer catalog information, Killark circuit breaker panelboard is designed for Class I, Div 1&2. The 12 circuit panel board specified in key note 10 on dwg S-E-201 fits in the Hubbell Killark Distribution Circuit Breaker Panel Board B7L/B7P Series - B7 P 20 3 12 MBB 30- there are not catalog numbers for Class 1, Division 1 and Class 1, Division 2 separately. Same situation occurs for the Fitting Hubbell – Killark # ENY-3 which is suitable for installation in Class I, Div 1&2. Exact location of the panel shall be coordinate in field, with all trades involved.. Motor Fuel Dispensing facilities are Class I as defined in NEC Table 514.3(B)(1), The Division 1 or 2 depends of the location of the electrical equipment as defined in NEC Table 514.3(B)(2).

Q #	Question	Answer
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Thursday, July 27, 2017

14	<p>Drawing # CO-E-104, detail # 5, identifies Panel LC as Hubbell # LXIN-32-16-08 with enclosure # LEXAN-32-S, which also refers us to Drawing # CO-E-501 for the Panel LC schedule.</p> <p>(a) The electrical single-line diagram, on Drawing # S-E-301, shows Lighting Control Panel "LC" fed by a 40A/3P branch breaker, from panel CO (9,11,13). The Hubbell style LXIN panel is not like the style LXBC panel whereas you provide a feeder to a vertical bus fed panel and tap branch circuits from it in the same way a typical power panelboard would work. The LXIN series uses relay modules that receive the feeder circuit from a remote panelboard and return the load circuit from the same relay, acting as a switching relay only. Would you rather use the same style panel, LXBC?</p>	<p>Panel LXBC is accepted. Provide lighting panel similar to Hubbel LXBC -1-IL-B-30-H-1S.or approved equal. For spare breakers provide 50% controlled breakers and 50% non-controlled breakers.</p>
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Q #	Question	Answer
13	<p>Drawing # MB-E-501 (Sheet No. 116) provides the panel “LP” schedule, which has been identified, on Drawing # MB-E-101 (Sheet No. 111) as a Hubbell # LXBC-1-1L-B-18-H-1S with # LXTB graphical interface user or equal.</p> <p>The Hubbell series LXBC panel uses “controlled” as well as “non-controlled” circuit breakers.</p> <p>(a) Which type breaker are we to supply for the six “spares” in Panel LP?</p> <p>(b) Should these be split, whereas we provide three of each type, or another variation?</p> <p>(c) In an attempt to properly identify which breakers in panel LP were to be “controlled” or “non-controlled” would you please clarify the following “branch circuit loads”? Service Bay # 3 (Drawing MB-E-101) identifies LP-9 as the feeder circuit. Service Bay # 5 identifies LP-11 as the feeder circuit. Panel schedule LP identifies circuit # 7 feeding Lighting Bay # 3, circuit # 9 feeding Lighting Bay # 5. Would you please indicate which circuit identifier should be changed?</p>	<p>a) Provide 3 controlled breakers and 3 non-controlled breakers.</p> <p>b) Same as a) above.</p> <p>c) Circuits would be labeled as indicated on "LP" Panel board schedule. Circuit # 17 shall be included to serve bay #1. See revised sheet MB-E-101 and MB-E-501 <u>in Addendum 3</u>.</p>

Q #	Question	Answer
13	<p>(d) The above is not a big deal, but it also extends to Panel LP circuit # 11, identified as feeding the Mezzanine. Drawing # MB-E-102 shows the mezzanine lighting fed from circuit LP-11. Drawing # MB-E-101 identifies circuit LP-11 as feeding Service Bay # 5. After clarifying paragraph (c) above, would it be possible that the mezzanine lighting would be controlled on circuit LP-15? The mezzanine lighting is a “non-controlled” breaker load and shown to be fed by 3-way switches. Circuit LP-11 is a “controlled” breaker load, as identified on Drawing MB-E-101, represented by switch Se.</p> <p>(e) Drawing # MB-E-101, Sheet Key Note # 3, identifies the Lighting Control Switches to be similar to Hubbell LX Sentry Switch, toggle style with locator light, or equal. Hubbell has discontinued the LX Sentry Switch style, and replaced them with the LXSW series (spec sheet attached). This becomes important for a couple of reasons. The replacement style is wired using Belden # 8471 cable, and not standard wiring as did the older “Sentry” design. This should be noted on the drawings. The new switch design also brings up the question (see spec sheet) do we furnish [5] LXSW1LPW, or [1] LXSW5LPW at each of the two locations, designated as SaSbScSdSe, on Drawing # MB-E-101, to control the Service Bay Lighting Circuits?</p>	<p>d) Service Bay #5 will be fed by circuit LP-9 and Mezzanine by circuit LP-11 following LP panelboard schedule. Final circuit identification shall be documented on as-built drawings. See revised sheets MB-E-101 and MB-E-501 in upcoming Addendum 3.</p> <p>e) Since the mentioned key note also refers to switches compatible with the lighting control panel, LXSW should be used. LXSW5 is a good option for this application.</p>

Monday, July 24, 2017

12	<p>The Overhead Crane in the Maintenance Building is called out as by General Contractor but there is no Spec section for it. Is more information going to be provided?</p>	<p>The spec will be updated in upcoming Addendum 3.</p>
11	<p>Detail 2 on A-502 calls for a W12x45 to support various mounted equipment. Assuming that this beam has been designed by the project engineer already and it will attach to the building columns. Can end beam reactions/loads be provided which the PEMB columns will support?</p>	<p>The W12x45 beam with 8 hose reels should be designed to see a 1kip Live Load and 1Kip Dead Load.</p>

Q #	Question	Answer
10	The drawings show a 5 ton overhead crane running from grids 2-4 and spanning between grids C-E. There are 6 columns shown on the drawings to support the crane runway steel. It would be a more efficient design if this crane were underhung and supported from the steel above.	If awarded, submit a value engineering proposal/ substitution request per the contract documents that outlines the proposed change in design and cost implications for all systems. Request shall meet all the requirements of Specification Section 012500. The deflection & lateral drift requirements per the crane manufacturer must be met. Support for equipment reels, which share the columns in question, must also be factored into the proposed change (see MB-A-103, MB-A-302, MB-A-502, etc.). Equipment must remain at heights indicated on contract documents.
9	Are the CMU walls designed with bond beams so that the walls are braced horizontally between building columns and a structural member on top of the wall is not required for support? The drawings appear to show a bond beam at the top of the 4'-8" high wall and two rows on bond beam for the 1'-8" high wall. The drawings do call for a 9" metal channel but I assume that this channel will be used to support the metal exterior panel and interior liner panel only? This channel is not intended to brace the top of the CMU wall?	Yes - the bond beams will be sufficient to brace horizontally without the structural need for support from above. Correct - The 9" channel is for the wall system per the PEMB Manuf. and is used to support the exterior and interior panels only.
8	The drawings are calling for the simple saver insulation system for both the roof and walls. This system is labor intensive and encapsulates the roof purlin cavity making it very difficult to accommodate attachments for MEP. Will other systems be allowed as long as they meet the required U-values and energy code requirements Just need to know what energy code is being followed and what are the required tested u-values?	JM Simple Saver system (or equal) is required for the roof. Code required U-Factor for roof is .032. Other insulating systems are permitted for the walls as long as they meet the code required U-Factor of .052. Metal liner panel required for walls per drawings.
7	What are the required tested u-values for both the roof and wall insulation systems to meet the energy code? (RFI question)	Code required U-Factor for Roof is .032. Code required U-Factor for walls is .052
6	On sheets CO-S-001 and MB-S-001 note 6 under the Foundation heading says "If soil of this bearing is not encountered at the elevations indicated on the contract drawings, footings shall be lowered or increased in size as directed by the structural engineer." How will the extra work be compensated if this occurs?	Follow Section 104 of the DelDOT Standard Specifications.

Q #	Question	Answer
5	The prevailing wage rates provided are for highway construction, will these be the rates that are applied to the building construction on this project?	8/17/17: The Dept of Labor has issued a Multiple category construction project consisting of Highway and Building Construction prevailing wage rates. The revised wage rates are included in Addendum 3. The building rates apply to Building Renovations Including Chain Link Fence and Sign. All other work is covered by Highway rates. Yes, Highway Construction are the wage rates issued by the Department of Labor for this project

Thursday, July 20, 2017

4	Please clarify the new Fencing around the property. There is no plan detail and specs are general not specific.	Furnish and install 8' high, 9 gauge galvanized chain link fence with 1'-0" high three (3) strand barbed wire on outward facing arms in accordance with DELDOT standards specifications. End posts and pull posts are to be 3" OD SS40 and intermediate posts 2-1/2" OD SS40. Brace railings are to be 1-5/8" OD SS#40. All corner, brace, and gate posts are to have truss rod assemblies. The fence should have top and bottom 7 gauge tension wire attached with hog rings. All concrete is to be truck delivered Class B mix concrete crowned to promote runoff of water. All other material should be galvanized steel.
3	On plan sheet 4: Demolition D-2 - will the contractor remove the salt from the existing salt barn? Demolition D-4 - 3 tanks are on site. Are they all to be removed?	The state (DELDOT) will remove the salt from the existing salt barn, NOT the contractor. D-4 Should state, "Steel Frame Tank to be removed by others. However, contractor shall remove the concrete pad." D-5 Should state, "Remove existing hydrant."

Thursday, July 13, 2017

2	Is DelDOT going to make the building items specialty items so the prime contractor can meet the self-performance requirement?	This will be addressed at the Pre-Bid Meeting.
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Q #	Question	Answer
1	<p>Page MB-283111-3 of the Fire Alarm Specification, section 2.2 reads “Manufacturers: Subject to compliance with requirements, provide products by Edwards Signaling and Security Systems, a GE Company or equal as pre-approved by the Owner.”</p> <p>Our company is requesting to be “pre-approved by the Owner” to provide an equal “Honeywell Notifier Fire Alarm System”.</p>	<p>The Honeywell Notifier Fire Alarm System is acceptable to the owner. For future requests like these, please follow Project Bidders Note #15, which states “There are various manufactures listed throughout the Technical Specifications in Appendix A. In addition to all listed manufactures, you may submit an ‘Approved Equal’ to the Department for review and approval/disapproval. Your request must list’s the page number, paragraph and section of Appendix-A that you want reviewed. Send your ‘Approved Equal’ request to: dot-ask@state.de.us.”</p>