
Addendum #3

New Jersey Schools Development Authority
32 East Front Street
Trenton, New Jersey 08625
Phone: 609-858-2981

Date: January 18, 2019

PROJECT #: ES-0042-C01

DESCRIPTION: Orange High School Addition & Renovation

This addendum shall be considered part of the Bid Documents issued in connection with the referenced project. Should information conflict with the Bid Documents, this Addendum shall supersede the relevant information in the Bid Documents.

A. CHANGES TO THE PROCUREMENT PROCESS:

(Not applicable)

B. CHANGES TO THE PROJECT MANUAL:

NOTE that modifications to the following items are shown as follows: additions in **bold and underlined** text; deletions in *strikethrough and italics*.

1. Modifications to the General Conditions

- a. MODIFY:** In Section 01850, Warranties and Bonds, Table 01850.1, Additional and Extended Warranties, modify the warranty for anodic coatings as follows:

Anodic coatings	20 years <u>10 years</u>
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2. Modifications to the Specifications

- a. ADD:** In Section 04 20 00, Unit Masonry, add Paragraphs 2.1.C.8. and 9. as follows:

8. Face brick pattern shall be randomized such that wall has an overall appearance consistent with that of the existing building.

9. Face brick shall be pre-blended onto pallets at the plant prior to shipping. Manufacturer shall provide clear printed instructions indicating how brick is to be removed from the cube in order to maintain the correct pattern.

- b. DELETE:** In Section 27 77 00, Sound, Intercom and Teacher Activated Security System, delete Paragraph 1.01.D

C. CHANGES TO THE EDUCATIONAL SPECIFICATIONS:

(Not applicable)

D. CHANGES TO THE DRAWINGS:

1. **REPLACE:** Replace all M-Series Drawings (61 sheets) with corrected drawings, all dated 01/17/19 and included herewith as Attachments 3.01 through 3.61.

E. BIDDER'S QUESTIONS, REQUESTS FOR INFORMATION AND RESPONSES:

1. **Question:** Hazardous Waste & Underground Storage tanks Removal: Please confirm that both are NOT applicable / at site (Not in GC's scope) or if available please provide the details. Ref 20.0 / GC-101.

Answer: Aside from those related elements included in the specified abatement and renovation activities, the Authority does not currently anticipate that the General Contractor will encounter undocumented hazardous waste or underground storage tanks through implementation of the Work, and there is no expectation that the General Contractor should budget for those unquantified elements in its proposal. In the event that these elements are encountered, they will be considered an "Unforeseen Condition" subject to the "Impacted and Unsuitable Material Allowance", and will be part of the General Contractor's scope. All Allowances shall be utilized only after written authorization from the Authority, in accordance with Section 01020 Allowances.

2. **Question:** Existing soil condition: Please confirm that Soil is Clean and can be used for Backfilling. Please also confirm that if Export is required then the cost of removal & disposal shall be paid by the Allowance.

Answer: Per Section 312300, "Existing soils are unsuitable for reuse as backfill and all excavated soils/spoils are to be removed from the site and disposed of legally offsite." Further, pursuant to section 6.25.2 of the General Conditions, the Contractor must dispose/recycle/reuse the material at a permitted facility (e.g., Beneficial Use Determination (BUD) or alternative fill site, landfill cover, etc.), and the General Contractor is required to complete all associated testing pursuant to the Authority's Exportation requirements.

The Authority will not certify that the materials excavated from the site do not contain compounds at concentrations in excess of the NJDEP Residential Direct

Contact Soil Remediation Standards (RDCSR), Non-Residential Direct Contact Soil Remediation Standards (NRDCSR), or the Default Impact to Groundwater Soil Screening Levels (IGWSSLs), nor will the Authority accept placement of the material on a property used for residential or educational purposes.

With the exception of the soils and groundwater associated with the Connector Bridge, Elevator PE-3 or in proximity to OPA, the General Contractor may assume for bidding purposes that the excavation spoils/groundwater will contain compound concentrations below the (RDCSR), (NRDCSR), (IGWSSLs) and Groundwater Quality Standards, as applicable.

The General Contractor should anticipate that the soil and dewatering spoils generated as part of the Connector Bridge construction will need to be disposed of as petroleum-contaminated/ID27 classified waste and that any water generated by dewatering efforts will be petroleum impacted.

In the event that testing by the Contractor (witnessed by a representative of the Authority) confirms analytical results different than those indicated above and results in additional restrictions for the disposal of that material, the additional cost of disposal of that material will be considered an “Unforeseen Condition” subject to the “Impacted and Unsuitable Material Allowance”, and will be part of the General Contractor’s scope. All Allowances shall be utilized only after written authorization from the Authority, in accordance with Section 01020 Allowances.

3. **Question:** The drawings call out a Natural Gas Generator. The Spec calls out Diesel Fuel Tank. The drawing shows a Load Bank. The Specs have no info on the Load Bank. Please advise if the owner would like a Natural Gas or Diesel Generator. If a Load Bank is needed please provide specs.

Answer: The generator will be a natural gas generator. See revised Section 26 32 13 Emergency Standby Generator, issued in Addendum #2 as Attachment 2.15.

4. **Question:** Is the intent to replace the intercom system and the clock system in the existing building or integrate to it with a system for the addition?

Answer: There is no existing clock system in the HS, so the new system will not be integrated. The existing intercom system will remain. The new intercom system shall be integrated with the existing system; all manufacturers listed in Section 27 77 00, Part 2, 2.01 are compatible.

5. **Question:** The plans depict limited work in the existing building – what is the intent for the existing clocks/speakers/call switches? Are they to be replaced, reused, not touched?

Answer: Existing systems are not part of the contract; refer to Drawings T-202 and revised Drawings A-751 thru A-754 (issued in Addendum #2 as Attachments 2.88 through 2.91) for selected rooms in the existing HS (including four Science Labs, Auxiliary and Existing Dining Halls, Classroom 219) that are to receive new communications equipment.

6. **Question:** Specifications call for privacy switches – please confirm that these are required. Dual emergency/normal switches may be preferred to prevent activation of the privacy feature, which would prevent administration from monitoring a potential security/safety issue in a classroom?

Answer: The privacy switches are not required. Modifications to the documents will be included in a future addendum.

7. **Question:** Specification notes “SOUND, INTERCOM AND TEACHER ACTIVATED SECURITY SYSTEM” – please provide clarification regarding the Teacher Activated Security System and how it is to operate?

Answer: The Section title is modified to read, “Sound, Intercom and Administrative Communications System. The specification requirements are unchanged.

8. **Question:** Please confirm or deny that the CPM Subcontractor is required to be DPMC Classified?

Answer: The CPM Scheduler is required to be employed by an entity with DPMC Classification in P030 (Scheduling). This may require the Contractor to subcontract this function if the Contractor does not possess this DPMC Classification.

9. **Question:** Section 347113 – Vehicle Barrier Bollards – There are 2 different diameters for the fixed steel bollards, 4.5” & 6.25”. The plans do not indicate which diameter. Please clarify which diameter bollard goes where on the plans?

Answer: The 4" diameter bollards are to be utilized in trash and recycling container area as shown in Detail 4/C-8.3. All other bollards, which are utilized to protect pedestrian walks or building accesses, are to be 6" diameter. See also revised Section 34 71 13, Vehicle Barrier Bollards, issued in Addendum #2 as Attachment 2.18.

10. **Question:** Please confirm that the Architect and Design Professionals will provide the contractor with all the CAD files and backgrounds at no cost to the contractor.

Answer: Upon the Contractor’s request, and its execution of an appropriate release of liability, the Authority will provide CAD files and backgrounds to the Contractor, at no cost, after award of the contract.

11. **Question:** Please confirm that the contractor doesn’t have to perform certain percentages of the scope of work by its own forces and if this is not the case, please advise what percentages are required by the contractor to perform

Answer: Other than the obligation to employ a Superintendent to monitor the Work, there is no minimum percentage of the Work that must be performed by the Contractor’s own forces.

12. **Question:** Please confirm that the water and electrical power usage costs are to be carried by the owner
- Answer:** Incorrect. The Contractor is responsible for provision and payment of temporary utilities, including those required for Work in the existing building.
13. **Question:** Please confirm that NO site contaminants are existing on any of the site soils or ground water.
- Answer:** See the responses to Items E.1. and E.2. above.
14. **Question:** Please confirm that all soils meet or under the NJDEP residential requirements
- Answer:** See the responses to Items E.1. and E.2. above.
15. **Question:** Kindly provide the spec for the 100 KW Load Bank.
- Answer:** See Item E.3. above.
16. **Question:** With regard to required bid paperwork, is the DPMC Form 701 Uncompleted Contracts form required to be submitted with the GC's and Named Subcontractors Paperwork? We acknowledge that the NJSDA Uncompleted Contracts form is a required submission document.
- Answer:** Submission of DPMC Form 701 is not required.
17. **Question:** Can inner-locking, plenum armored fiber cables be furnished & installed in lieu of Plenum Fiber Optic Innerduct? There will be a cost savings of both Labor & Material for this change in scope.
- Answer:** The Basis of Bid shall be as specified.
18. **Question:** 277270-8, 3.08, A – How much time should be allotted for estimating purposes for the “LVC Technician to work with the School IT personnel”?
- Answer:** 24 hours should be allotted.
19. **Question:** Please verify if there is an existing Closed Circuit Television System existing at this location (manufacture and model of existing video server/software).
- Answer:** There are various existing camera systems in the building. The Project does not include integration of the new video surveillance and security platform with any of the existing systems.

20. **Question:** Please verify if there is an existing Intrusion Alarm System existing at this location (manufacture and model of existing panel).
- Answer:** The existing system is an outdated ADT panel that is not working. The Project includes replacement of the existing system with a new system.
21. **Question:** Area of Rescue system is specified as an Aiphone LEF audio only intercom system with no call out capability. Area of Rescue systems require off-site communication if command station is not located in a constantly attended location. Please clarify.
- Answer:** The on-site command station will be constantly monitored.
22. **Question:** Please provide specifications for (SRF-1 & 2) Sheet Resilient Flooring.
- Answer:** See new Section 09 56 16, Resilient Sheet Flooring, issued in Addendum #2 as Attachment 2.01.
23. **Question:** Drawing G-102B notes to provide Fire Extinguisher Cabinet & Fire Blankets at 2nd Floor Section B, Rooms 241, 241A, 247 & 248. Please provide the following:
- a. Wall location on Room Plan & Elevations on Drawing A-753 & 754.
 - b. Specifications including Manufacturer and Model Number.
- Answer:** See revised Drawings A-753 and A-754, issued in Addendum #2 as Attachments 2.90 and 2.91. See also new Section 10 40 00, Safety Specialties, which replaces deleted Section 10 44 16 and was issued in Addendum #2 as Attachment 2.02.
24. **Question:** Sections F1B/S-100A and F4/S-101A on drawing S-100A cannot be found. Please provide the section details.
- Answer:** Section F1B/S-100A should be labeled F1B/S-300; Section F4/S-101A should read F4/S-100A. See revised Drawing S-100A, issued in Addendum #2 as Attachment 2.110.
25. **Question:** Dwg A-101A, between CL's F9 ~ G6 and CL's 9~11 calls for GWB partition P5/0. Referred detail 1/A-506 calls for CMU partition. Also, detail F1/S-100A calls for CMU partitions. Please, advise.
- Answer:** Detail 1/A-506 says "Partition as scheduled (CMU shown)" so detail applies to stud or block walls. See revised Drawing S-100A issued in Addendum #2 as Attachment 2.110.
26. **Question:** Dwg A-101A with enlarged plan 1/A-402, about CL 9 and between CL's F9 ~ H.7 calls for GWB partition P3/0. Detail F2/S-100A calls for CMU partitions. Please, advise.

Answer: Condition is similar to Detail 1/A-506. See revised Drawing S-100A, issued in Addendum #2 as Attachment 2.110.

27. **Question:** Partition between stair B and G, between CL's A.8 ~ C, on dwg. A-401A, referred dwg A-101A, as well as drawings A-411 and A-461 calls for 3-HR firewall. Drawing A-602 does not have 3-HR wall type.

- a. Please add wall type to the drawing A-602.
- b. Please advise above mentioned wall thickness and requirements (if applicable).

Answer: (a) We do not consider the firewall to be an interior partition, so a partition type is not scheduled.

(b) Fire wall condition between Stairs B & G is similar to condition shown on 3/A-311 (without coiling doors). Refer to G-604 - UL Assemblies for UL#: U904 requirements. See new Drawing G-108, Code Analysis – Fire Wall Diagrams (issued in Addendum #2 as Attachment 2.19), with all detail callouts shown to refer to different firewall conditions.

28. **Question:** Dwg A-464, stair K sections 4/A-464 and 5/ A-464. Back up CMU wall on CL 44 and L 62 are shown as new CMU back-up. However, on plans A-102C and A-461 these walls are shown as existing walls. Also, exterior elevation 2/A465 has this part of building as existing and refers to the above-mentioned sections 4/A-464 and 5/ A-464. Please confirm that this is a typo and the walls on CL 32, CL 44, and CL 62 are existing and neither new CMU back-up or new bricks are not required.

Answer: Walls on CL 32, CL 44, and CL 62 are existing walls. See revised Drawing A-464, issued in Addendum #2 as Attachment 2.61.

29. **Question:** Please provide top of masonry elevation for 9/A-414.

Answer: Masonry wall shown is a partial view of the exterior auxiliary gymnasium wall. Refer to elevations and wall sections for top of wall. See also revised Drawings A-509 and A-612 (issued in Addendum #2 as Attachments 2.67 and 2.78 respectively) for related information.

30. **Question:** 042000/2/2.1/B/3: Unit size: 80-inches x 16-inches x 6-inches thick. Confirm size.

Answer: See revised Section 04 20 00, Unit Masonry, issued in Addendum #2 as Attachment 2.03. Correct unit size is 8" x 16" x 6".

31. **Question:** 042000/2/2.1/C/1 calls for bricks 1, 2, 3. Exterior elevation drawings A-201 through A-203 call for (1) type norman brick only. Please confirm (1) type of bricks and provide color reference per above mentioned specification.

Answer: The legend on A-201 through A-203 refers to size and bond pattern of brick, but it does not specify color(s) of brick. Provide a blend of specified brick colors 1, 2, & 3 (using the percentages listed in 042000/2/2.1/C/1) for the new addition. See also Item B.2.a. above.

32. **Question:** A706- Interactive Monitors: Please confirm that Owner or District will Furnish & Install them.

Answer: Interactive monitors will be furnished by the Authority and/or the Project School District. The Contractor is responsible for structural blocking for support and power and data infrastructure for all interactive monitors, as indicated in T-series drawings, and for installation of monitors.

33. **Question:** Upon review of the structural drawings it appears that detail F1B/S100A is missing from S-100A drawing. The note appears multiple times on the foundation plan shown on S-100A, but no section/detail is provided. Please clarify.

Answer: See Item E.24 above.

34. **Question:** We understand that you will be gaining a parking area across the street from the OHS on Clarendon Place. Please advise if the Parking Area at the Corner of Clarendon Place & Lincoln Ave. will be available to the GC for Staging.

Answer: NJSDA has no leasehold or ownership interest in the cited property and cannot make it available for parking.

35. **Question:** Various = The 8 shown on C-2.1 [assuming there are (2) on Lincoln Ave.]

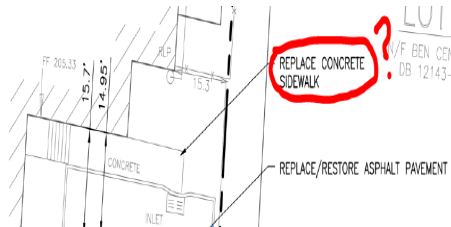
There are various concrete driveway “aprons”/entrances. What are the construction details? Same as 10/C-8.0 Concrete Sidewalk Details? or other?

Answer: The plans depict a total of six driveway aprons—two on Clarendon Place, two on Lighthipe Place, and two on Lincoln Ave (1 new and replacement of existing). See revised Drawing C-8.3, Site Details, issued in Addendum #2 as Attachment 2.44. Concrete driveway aprons shall be 6" thick 4500 psi concrete, with 1 layer of 6"x6" W1.4xW1.4 galvanized mesh and 4" thick compacted DGA base.

36. **Question:** Various = As shown on C-2.1 2. There are various concrete items named “pad/sidewalk”, “pads”, “walk”, “landing”, etc. What are the construction details? Same as 10/C-8.0 Concrete Sidewalk Details? Same as 3/C-8.3 Concrete Patio Pad Details? or other?

Answer: Detail 10/C-8.0 is for concrete sidewalks, walkway pads, and the entrance walkways. Detail 3/C-8.3 "Concrete Pad at Trash Enclosure" is to be utilized for the concrete pad at the dumpster pad in the service area (between buildings) and for the dumpster pad adjacent to the relocated greenhouse.

37. **Question:** [Refers to illustration below:] Is this concrete sidewalk being replaced? (See image further below shown on drawing C-3.2 Site Improvement Plan)
- If so, it is not shown on the C-2.1 Demo Plan as an item to be removed. It's also outside the L.O.D. shown on same demo plan.
 - If not, why is it noted to be replaced as noted on C-3.2 Site Improvement Plan.



Answer: See revised Drawings C-2.1 and C-3.2, issued in Addendum #2 as Attachments 2.30 and 2.33 respectively.

38. **Question:** The elevations on A753 and A754 indicate full height back splashes. The countertops in these areas are Epoxy. Can they specify what material the backsplashes are?

Answer: The backsplashes are to be the same material as the countertops.

39. **Question:** Are there other fittings on the job other than the faucets? The spec calls for electrical fittings, air service fittings, and vacuum service fittings but I do not see any located on the drawings. Can they specify where these would be located?

Answer: The Project includes new electrical, air and vacuum fittings in renovated Science Labs (Rooms 241, 241-A, 247, 248). Refer to E-102B for electrical fittings; Refer to P-102B & P-302 for air & vacuum fittings.

40. **Question:** On drawing T-401 there is an additional 24 Strands of OM4 fiber shown that seems to be located on the MDF/Voice plywood wall and seems to be allotted for the D-Mark extension. However there is no info on types of connectors/couplers and there is no wall mount fiber box shown on the wall near the Krone blocks shown on drawing T-301. We say additional fiber because we already acknowledge a 6 strand Voice fiber to the voice rack and a 24 strand Data fiber to the data rack. Please clarify.

Answer: The additional fiber for the D mark will be provided by the Project School District's service providers.

41. **Question:** Please clarify: Corridor 160 listed on A 823 pattern drawing. Has 13 x 27 (352 sq. ft) missing for the pattern (on the end near the vestibule). Also, the corridor 160 B is missing a large amount of the pattern. Are there other plans for

these corridors? Is this supposed to be a random mix? If this is the case what is the ratio?

Answer: Corridor pattern on 5/A-823 indicates a pattern module that repeats down the corridor, with the starting point at the cross-section of the corridors. See revised Drawings A-823 and A-824, issued in Addendum #2 as Attachments 2.100 and 2.101. Material and finish boards, which include full tile patterns, in color, will be available on-site.

42. **Question:** Can another walk-thru be scheduled in order to see the Boiler Room area?

Answer: No.

43. **Question:** All plans depict a Wet Seal joint whereas the project Specifications call for a 508 Rainscreen. What type of panel is required, Wet Seal or Rainscreen?

Answer: A rainscreen system is required.

44. **Question:** In project specifications 074243-6, the finish is referred to as both Clear Anodized and Clear Anodic which are two different finishes. What finish is required for the ACM Panels in the project?

Answer: The panels should be clear anodized to match the storefront, window, and curtain wall finishes.

45. **Question:** There is no scale on the finish plans A-821 and A-822. Please advise.

Answer: Finish plans on A-821 & A-822 are 1" = 30'-0"

46. **Question:** Technology Drawings T-001 thru T-503 indicate Various Technology Systems Devices in the Classroom(s), but so do the Power Drawings E-101A, E-102A, E-102B & E-102C, to some degree. Do the Technology Drawings "supersede" the Power Drawings only for Technology in pricing the work?

Answer: Additional devices are shown on the T-drawings that are not shown on the electrical drawings. The bidder is required to provide all Work required by the Contract Documents, and is responsible for coordination of all Work between and among the various trades.

47. **Question:** We need the following information regarding existing Toilet Rooms: The Drawings indicate which existing Toilet Rooms are to receive new partitions. Are new Toilet Accessories also required? If so, please provide a Schedule.

Answer: No new toilet accessories are required for existing toilet rooms. Scope is only to replace toilet partitions in kind.

48. **Question:** Are new Urinal Screens required in existing Toilet Rooms which are receiving new Toilet Partitions?

Answer: Scope is to replace partitions in kind. If no partition exists, a new partition is not required.

49. **Question:** New Toilet Partitions are noted for Rooms 126-A and 132-B. These are not shown on the Drawings. Please advise if they are required.

Answer: Room 126-A does not have existing partitions, so no new partitions are required. Room 132-B shows a partition (see A-101B), which should be replaced in kind.

50. **Question:** If we are reading the documents correctly the existing panel is a Notifier 5000. Devices (smokes etc.) cannot be added to this panel because it is obsolete and replacement devices are not backwards compatible. An additional panel cannot be added to the system (this is no longer allowed by code). So, the only way to add the areas in the bid is to replace the current panel. The choice then becomes using the existing devices with monitor modules and then adding new devices or replacing all old devices. In either case, to provide an accurate quote, the number of the existing devices needs to be provided. Please clarify.

Answer: Contractor shall remove the existing panel, provide a new fire alarm control panel utilizing the existing back box to interface the existing devices into the new panel, and connect all new devices within the existing high school to the new fire alarm control panel. Please refer to fire alarm diagram and notes on FA-001.

51. **Question:** SECTION – 084113 Page #2, under 1.5 Tests & Performances, Letter “K”, the spec lists Ballistic-Resistant Performance Requirements to meet UL 752 Ballistic standards for level 3 ballistics. Do the entrance doors need to meet UL 752 Ballistic standards for level 3 ballistics? If so, the doors and entrance frames will need to be reinforced the internal steel. The use of internal steel reinforcement to meet UL 752 Ballistic standards for level 3 ballistics within the doors, storefronts, and entrance framing will compromise the thermal performance characteristics of these systems and add significant increased cost to the project. Currently, EfcO has valid ballistic testing available for their D300 standard stile and rail doors, their series 401 non-thermal storefront, and their 5600 curtain wall systems.

Answer: Glazing is to be resistant to forced entry. Ballistic resistance is not required. See revised Section 08 41 13, issued in Addendum #2 as Attachment 2.07.

52. **Question:** SECTION – 084113 Page #3, under 1.7 Warranties, Letter “D”, The spec lists the finish warranty criteria to be met for organic coating painted finishes and has the warranty time duration listed as (20) twenty years from substantial completion. The finish listed on page #6, under 2.7 Finish, Letter “A”, references a clear anodized finish to comply with AAMA 611. Typically, the industry performance criteria for anodized finishes is to meet AAMA 611 and the industry standard time duration is a maximum of (10) ten years, b/c the anodizing process makes the anodized finish part of the metal and the metal is only

warranted for (10) ten years. Anodized finishes do not comply with AAMA 2603, AAMA 2604, or AAMA 2605 performance criteria for organic painted coatings on aluminum extrusions or aluminum coil and the (10) ten-year time duration for an anodized finish is considered the standard maximum time duration warranty for an anodized finish. Warranty needs to be reviewed for a maximum time duration of (10) ten years for anodized finishes.

Answer: The warranty period has been revised to ten years. See revised Section 08 41 13, issued in Addendum #2 as Attachment 2.07.

53. **Question:** SECTION – 084113 Page #4, under 2.1 Manufacturers, Letter “A”, the spec lists the EfcO series D500 wide stile door as the BOD for the entrance door on the project. However, on Page #2, under 1.5 Tests & Performances, Letter “H”, the spec lists a performance of not less than 48 as the CRF for the doors. EfcO's series D500 wide stile door has a CRF performance of about 25. The EfcO series D502 “Thermastile” wide stile thermally broken door has a CRF of 46. Does the NJSDA want a standard stile and rail door with a CRF of approximately 25 or do they want a thermally broken door with a CRF of approximately 46?

Answer: See revised Section 08 41 13, issued in Addendum #2 as Attachment 2.07 which clarifies models and locations.

54. **Question:** SECTION – 084113 Page #4, under 2.2 Materials & Accessories, Letter “A”, the spec lists the doors and storefronts to have .125” extrusion thicknesses. Typically, most storefront systems have a nominal wall thickness of .080” and the EfcO series 403X has a nominal wall thickness of .080”. Please confirm a nominal wall thickness of .080” is a sufficient wall thickness as long as it meets project wind load design pressures and structural requirements.

Answer: Standard unit wall thickness is sufficient so long as backer reinforcing is provided for hardware. See revised Section 08 41 13, issued in Addendum #2 as Attachment 2.07.

55. **Question:** SECTION – 084113 Page #5, under 2.5 Storefront Framing, Letter "B", The spec lists the thermal break construction; however, it does not make any reference to the core storefront framing members having dual thermal pockets for enhanced thermal performance. Are the dual thermal barriers required for enhanced thermal performance? Or, does a standard single thermal barrier, like the EfcO series 403 system design, suffice for the project's thermal requirements?

Answer: Dual thermal barriers are not required.

56. **Question:** SECTION – 084113 Page #5, under 2.6 Aluminum Doors, Letter “A”, the spec lists the Narrow stile & rail door (EfcO series D200) as the door to be provided. This will not work with the door hardware required, the possible ballistic requirements, and is in direct discrepancy with other references to the stile and rail doors and the performance requirements. If the thermal performance (CRF & Enhanced U Value) of the door is the superseding performance criteria, the project should be based on the D502 (wide stile) doors; however, all EfcO

Thermastile doors need to be utilizing Continuous Hinges. The Thermastile doors cannot be used with Butt Hinges or Offset Pivot Hinges. If the ballistic performance of the door is the superseding performance criteria, the project should be based on the D300 (medium stile) doors as that is the door system with project specific testing available and valid at this time. The D500 wide stile door appears to be the specified and detailed door on the project, so please indicate proper door selection to work with for the design build bid process.

Answer: References to narrow stile doors have been removed. See revised Section 08 41 13, issued in Addendum #2 as Attachment 2.07.

57. **Question:** SECTION – 084113 Page #2, under 1.3, System Description, Letter “C”, the spec lists curtain wall system is reglazeable from the interior, except spandrel glazing or panels are reglazeable from the exterior. Typically, a curtain wall system is glazed from the exterior of the building on low to mid rise school buildings. The details illustrated on the vast majority of the architectural drawings have the curtain wall systems illustrated as outside glazed. If the curtain walls are going to incorporate sunshades into the curtain wall system, they need to be outside glazed. Please review and indicate if exterior or outside glazed curtain wall systems are acceptable; otherwise, there are going to be product application problems.

Answer: Provide exterior glazed system. See revised Section 08 44 13, issued in Addendum #2 as Attachment 2.08.

58. **Question:** SECTION – 084113 Page #2, under 1.3, System Description, Letter “K”, the spec lists no water leakage at 65 psf. This is incorrect and the 65 psf performance is way beyond any curtain wall performance capabilities. The correct water performance in the specs should state no water leakage at 15 psf.

Answer: The correct value is 15 psf. See revised Section 08 44 13, issued in Addendum #2 as Attachment 2.08.

59. **Question:** SECTION – 084113 There are no references to the curtain wall systems being able to meet Ballistic-Resistant Performance Requirements to meet UL 752 Ballistic standards for level 3 ballistics. Why would the aluminum entrances and storefront system need to meet the ballistic requirements, but not the curtain wall entrances? If the curtain wall and the entrance doors need to be reinforced with the internal steel, the use of internal steel reinforcement to meet UL 752 Ballistic standards for level 3 ballistics within the doors, curtain walls, and curtain wall entrance framing will compromise the thermal performance characteristics of these systems and add significant increased cost to the project.

Answer: Glazing only is to be resistant to forced entry. Ballistic resistance is not required. See revised Section 08 44 13, issued in Addendum #2 as Attachment 2.08.

60. **Question:** SECTION – 084113 Page #6, under 1.8 Warranties, Letter “D”, The spec lists the finish warranty criteria to be meet for organic coating painted

finishes and has the warranty time duration listed as (20) twenty years from substantial completion. The finish listed on page #12, under 2.13 Finish, Letter “A”, references a clear anodized finish to comply with AAMA 611. Typically, the industry performance criteria for anodized finishes is to meet AAMA 611 and the industry standard time duration is a maximum of (10) ten years, b/c the anodizing process makes the anodized finish part of the metal and the metal is only warrantied for (10) ten years. Anodized finishes do not comply with AAMA 2603, AAMA 2604, or AAMA 2605 performance criteria for organic painted coatings on aluminum extrusions or aluminum coil and the (10) ten year time duration for an anodized finish is considered the standard maximum time duration warranty for an anodized finish. Warranty needs to be reviewed for a maximum time duration of (10) ten years for anodized finishes.

Answer: The warranty period has been revised to ten years. See revised Section 08 44 13, issued in Addendum #2 as Attachment 2.08.

61. **Question:** SECTION – 084113 Page #6, under 2.1 Manufacturers, Letter “A”, The spec lists Efco series 5600 curtain wall system as the BOD; however, there is no reference to the 2.25” or 2.5” face dimension sight line requirements and there is no reference to the “Duracast” pressure plate, which will be required in order to meet the “U” Value thermal performance requirements as listed on Page #3, under 1.3, System Description, Letter “O” for Average Thermal Conductance.

Answer: Narrower face dimension is desirable so that storefronts, curtain walls, and windows have a consistent appearance. See revised Section 08 44 13, issued in Addendum #2 as Attachment 2.08.

62. **Question:** SECTION – 084113 Page #10, under 2.8 Aluminum Doors, Letter “A” thru “H”, the spec does not list the door series to be viewed as the BOD to be provided. If the thermal performance (CRF & Enhanced U Value) of the door is the superseding performance criteria, the project should be based on the D502 (wide stile) doors; however, all Efco Thermastile doors need to be utilizing Continuous Hinges. The Thermastile doors cannot be used with Butt Hinges or Offset Pivot Hinges. If the ballistic performance of the door is the superseding performance criteria, the project should be based on the D300 (medium stile) doors as that is the door system with project specific testing available and valid at this time. The D500 wide stile door appears to be the specified and detailed door on the project, so please indicate proper door selection to work with for the design build bid process.

Answer: Doors are specified in Entrances and Storefronts. Subsection has been replaced with a reference to 08 41 13. See revised Section 08 44 13, issued in Addendum #2 as Attachment 2.08.

63. **Question:** SECTION – 085113 Page #2, under 1.2, Performance Requirements, Letter “C”, Number “1”, Letter “b”, the spec lists a CRF performance requirement of 55 for the frame under AAMA 1503. The Efco series 450X achieves a 74 CRF performance for the frame under AAMA 1503. A higher CRF is a better CRF performance. Does the spec require a 55 CRF or a 74 CRF?

Answer: CRF of 55 is a minimum, and the 450X exceeds it.

64. **Question:** SECTION – 085113 Page #2, under 1.2, Performance Requirements, Letter “C”, Number “2”, Letter “b”, the spec lists a “U” Value performance requirement of 0.60 for the window system. This does not comply with current energy code requirements under ANSI/ASHRAE 90.1 Version 2013 Table 5.5-4 for Climate Zone 4, which requires a 0.42 for fixed aluminum framed windows and 0.50 for operable aluminum framed windows based on NFRC 100 and NFRC gateway sizes. A lower U Value is a better U Value performance. Does the spec require a 0.60 U Value or 0.42 for fixed aluminum framed windows and 0.50 for operable aluminum framed windows based on NFRC 100 and NFRC gateway sizes?

Answer: Values have been updated. See revised Section 08 51 13, issued in Addendum #2 as Attachment 2.09.

65. **Question:** SECTION – 085113 Page #4, under 1.7 Warranties, Letter “D”, the spec lists the finish warranty criteria to be met for organic coating painted finishes and has the warranty time duration listed as (20) twenty years from substantial completion. The finish listed on page #7, under 2.2 Finish of Aluminum, Letter “A”, references a clear anodized finish to comply with AAMA 611. Typically, the industry performance criteria for anodized finishes is to meet AAMA 611 and the industry standard time duration is a maximum of (10) ten years, b/c the anodizing process makes the anodized finish part of the metal and the metal is only warranted for (10) ten years. Anodized finishes do not comply with AAMA 2603, AAMA 2604, or AAMA 2605 performance criteria for organic painted coatings on aluminum extrusions or aluminum coil and the (10) ten-year time duration for an anodized finish is considered the standard maximum time duration warranty for an anodized finish. Warranty needs to be reviewed for a maximum time duration of (10) ten years for anodized finishes.

Answer: The warranty period has been revised to ten years. See Section 08 51 13, issued in Addendum #2 as Attachment 2.09.

66. **Question:** SECTION – 085113 Page #5, under 2.1 Fixed & Aluminum Windows, Letter “B”, Number “4”, the spec lists that the metal sight lines of main frame members shall be 2” at all members except 3” at horizontal intermediate between fixed and operable. This cannot be achieved in a pre-glazed window system. The sight lines will vary depending on the use of an operable vent, the use of a fixed glass lite, and the use of a vertical mullion between either fixed lites or operable vents. This line item needs to be removed.

Answer: The goal is to have an appearance consistent with the curtain walls and storefronts. We recognize that mullion conditions will have differing widths. See revised Section 08 51 13, issued in Addendum #2 as Attachment 2.09.

67. **Question:** SECTION – 085113 Page #5, under 2.1 Fixed & Aluminum Windows, Letter “B”, Number “5”, the spec lists that the glass plane shall be recessed 1” from exterior plane of the window members. Framing members shall

possess a sloped profile duplicating an existing putty glazed steel window profile. If the window system does actually need to incorporate a putty glazed profile into the window profile, then a modification to the specified window system needs to be noted. Go to Page #4, under 2.1 Fixed & Aluminum Windows, Letter “A”, change the Basis of Design to Efc0 series 450G in lieu of 450X. The “G” indicates a perimeter bevel is required within the window system. If the window system does not actually need to incorporate a putty glazed profile into the window profile, then eliminate the line as it needs to be removed.

Answer: This requirement does not apply. See revised Section 08 51 13, issued in Addendum #2 as Attachment 2.09.

68. **Question:** SECTION – 085113 Page #5, under 2.1 Fixed & Aluminum Windows, Letter “B”, Number “6”, the spec lists that there shall be no change in exterior sight lines between fixed and operable units including spandrel areas; however, the sight lines will vary depending on the use of an operable vent, the use of a fixed glass lite, and the use of a vertical mullion between either fixed lites or operable vents. This line item needs to be removed.

Answer: This requirement does not apply. See revised Section 08 51 13, issued in Addendum #2 as Attachment 2.09.

69. **Question:** SECTION – 085113 Page #5, under 2.1 Fixed & Aluminum Windows, Letter “C”, the spec lists that the thermal break for frame and vent shall be a factory poured in place polyurethane into a prefinished cavity in manufacturer's plant providing minimum 3/8” separation. This is not correct. The Efc0 series 450X & 450G window systems are enhanced thermal performance windows designed to provide thermal performance capable of meeting current energy code requirements under ANSI/ASHRAE 90.1 Version 2013 Table 5.5-4 for Climate Zone 4, which requires a 0.42 for fixed aluminum framed windows and 0.50 for operable aluminum framed windows based on NFRC 100 and NFRC gateway sizes, if the right type of glass make up is utilized. The correct thermal break description for the Efc0 series 450X & 450G window systems are as follows: All exterior aluminum shall be separated from interior aluminum by a rigid, structural thermal barrier. For purposes of this specification, structural thermal barrier is defined as a system that shall transfer shear during bending and, promote composite action between the exterior and interior extrusions. The thermal barrier shall be thermal struts, consisting of glass reinforced polyamide nylon, mechanically crimped in raceways extruded in the exterior and interior extrusions. Poured and debridged urethane thermal barriers shall not be permitted.

Answer: See revised Section 08 51 13, issued in Addendum #2 as Attachment 2.09.

70. **Question:** SECTION – 085113 Page #5, under 3.2 Hardware, Letter “C”, the spec lists that the window systems incorporate “Gear Type Rotary Operators” as the window system's operating hardware. Unfortunately, the operable sash as illustrated on the architectural drawings on Page A-613 Window Schedule Addition for the window types “A”, “B”, & “C” are too tall and too narrow for

“Gear Type Rotary Operators” on a project out window sash. In addition, the Efc0 series 450X & 450G project out operable sash do not offer “Gear Type Rotary Operators” as an available window hardware option for that series window. “Cam Handles” will need to be provided on the window types “A”, “B”, & “C” as illustrated on architectural drawings on Page A-613 Window Schedule Addition. This line item needs to be revised and edited. The operating hardware should read... Locking handles shall be cam type and manufactured from a white bronze alloy with a US25D brushed finish.

Answer: See revised Section 08 51 13, issued in Addendum #2 as Attachment 2.09.

71. **Question:** SECTION – 085113 Page #5, under 3.3 Insect / Security Screens, Letter “A”, the spec lists that the window systems incorporate fixed window screens with the use of “Gear Type Rotary Operators”. Unfortunately, this is unavailable. The screens will need to be either a full hinged wicket screen or a sliding wicket screen. Architect needs to determine screen operation in order to open and close window sash. Also, the screens are insect screens and not security screens. Efc0 offers a stainless-steel mesh option within the insect screen but is not designed for security purposes.

Answer: Screens may either slide or swing. Screen material is specified to match NJSDA requirements. Please refer to revised Section 08 51 13. Screens may be provided by other than window manufacturer, but need to match the windows.

72. **Question:** SECTION – 085113 On most NJSDA projects, a subframe / receptor system is part of the window system design requirement for proper anchorage into the opening and as a secondary means of perimeter protection against the weather for air and water penetrations between the window system and the wall condition. In addition, with the current design incorporating sunshades at the window openings, it would be highly recommended to have subframe added as part of the window system design. We would recommend adding verbiage for subframe that reads....A. Subframes: Provide subframes with anchors for window units as shown, of profile and dimensions indicated but not less than 0.062-inch (1.6-mm) thick extruded aluminum. Miter or cope corners, and weld and dress smooth with concealed mechanical joint fasteners. Finish to match window units. Provide subframes capable of withstanding design loads of window units. Provide weather stripping and gasketing at perimeter of each fixed unit and operable unit.

Answer: Receptors have been added. See revised Section 08 51 13, issued in Addendum #2 as Attachment 2.09.

73. **Question:** SECTION – 085113 On the architectural drawings on Page A-613 Window Schedule Addition, a metal panel is illustrated at the bottom lite areas of the window type “A” units; however, there is no reference in any spec sections regarding the panel make up or overall thickness. This needs to be addressed.

Answer: Cross reference is now given to Section 07 42 13.23 - Composite Aluminum Panels. See revised Section 08 51 13, issued in Addendum #2 as Attachment 2.09.

74. **Question:** Does the required subcontractor paperwork need to be submitted with just the Price Proposal or both the Price Proposal and Technical Approach Proposal?

Answer: The Identification of Required Subcontractors Form must be submitted with the Technical Approach Proposal.

The required subcontractor paperwork that must be submitted with the Price Proposal is as follows: Uncompleted Contracts Forms for ALL required subcontractors; and all required prequalification, classification, registration, and licensing documentation.

75. **Question:** Does the Asbestos Removal contractor need to be named?

Answer: No.

76. **Question:** Refer to spec section 122413 (Window Shades). It is not clear from the bid documents as to which window shades are Motor operated. Please identify which window shades are motor operated.

Answer: E-series drawings (E-101A, E-101C, & E-102C) indicate junction boxes at motorized shade locations. Motorized shades occur at exterior glazing at the Media Center (Room 161) and Stair K at the dining halls (Rooms 118-C & 218-C).

77. **Question:** Are fire rated particle cores required at casework? Part 2, 2.2, E, 2.

Answer: Fire retardant treated is not required. Particleboard shall be 47 lb density minimum.

78. **Question:** Can you confirm that all exposed Hardware (hinges and pulls) are to be Stainless Steel? Part 2, 2.10, 8, A.

Answer: Hardware shall be satin finish stainless steel, unless otherwise noted.

79. **Question:** Can you confirm if Semi exposed interiors are to be clad in High Pressure plastic laminate or can they be White Melamine?

Answer: Refer to 06 40 23, Part 2, 2.8 B – surfaces shall have high-pressure plastic laminate, not Melamine.

80. **Question:** Are locks required at all casework? Spec states as shown on drawings and none are shown on drawings.

Answer: All drawers and doors shall have cam locks, keyed alike in each room, keyed as directed by the Authority, and to the same grand master key. Pairs of doors should have one cam lock and one thumbblatch.

81. **Question:** Please provide specifications for the Sheet Resilient Flooring (SRF-1 & SRF-2) that is called out for (SRF-1) Rooms 273, 273-A, 275, 275-A, 277 & SRF-2 Room 271 on Drawings A-611 and A-822.

Answer: See new Section 09 56 16, Resilient Sheet Flooring, issued in Addendum #2 as Attachment 2.01.

82. **Question:** Please be advised that there appears to be problem with Mechanical Drawings as issued. Some of the fonts appear to be unrecognizable in the PDF files. See example below:

AHU										
UNIT NO.	MODEL NO.	LOCATION	AREA SERVED	TOTAL CFM	MIN. OUTSIDE AIR CFM	SUPPLY FAN DATA				
						FAN TYPE	STATIC PRESS. ESP/TSP (IN.W.G.)	BHP	HP	FAN
AHU-1	CAH013G DAM	MERIDIAN ANINE CISCO LAB	CISCO LAB	1020	100.0	CENTRIFUGAL DWDI	1.0 / 2.07	3.73	1.0	1

NOTES:

Answer: M-Series drawings are issued herewith as Attachments 3.01 through 3.61.

83. **Question:** The Subsurface Information Specification Section 003132.13-1 includes "excerpts" from the Geotechnical Engineering Report from GeoEnvironmental, Inc. Please provide the complete Geotechnical Engineering Report.

Answer: Bidders shall use the information included in the Contract Documents.

F. CHANGES TO PREVIOUS ADDENDA:

1. **MODIFY:** In Addendum #1, modify Item B.1.a. as follows:
 - a. Section 6.5 of the General Conditions (“LEED™ Certification”) shall be modified as follows: The Contractor shall be responsible for **engaging a LEED Coordinator and fulfilling all LEED-related requirements as detailed in the Contract Documents.** *constructing the Project to achieve LEED™ Certification under the LEED v4 for Building Design and Construction: Schools (“LEEDv4 for BD+C: Schools”), and for applying for and*

~~securing such LEED™ Certification. LEED™ is a registered trademark of the USGBC. The Contractor shall be required to apply for and achieve LEED Certification at the level (Gold, Silver, Bronze (Basic Certification)) represented in the Contractor's Technical Proposal submitted in response to the RFP for the Project.~~

2. **MODIFY:** In Addendum #1, modify the response in Item E.7. as follows:

7. ~~The Contractor shall be responsible for constructing the Project to achieve Basic LEED™ Certification under LEED v4 for Buildings Design and Construction: Schools (“LEEDv4 for BD+C: Schools”) program~~ **is required.**

G. ATTACHMENTS:

<i>Att. #</i>	<i>Item #</i>	<i>Item Name</i>
3.01	M-001	MECHANICAL SYMBOL LIST, ABBREVIATIONS & NOTES
3.02	M-002	MECHANICAL VENTILATION SCHEDULE AND SCOPE NOTES
3.03	MD-100C	MECHANICAL BASEMENT FLOOR DEMOLITION PLAN - SECTION C
3.04	MD-101A	MECHANICAL FIRST FLOOR DEMOLITION PLAN - SECTION A
3.05	MD-101B	MECHANICAL FIRST FLOOR DEMOLITION PLAN - SECTION B
3.06	MD-101C	MECHANICAL FIRST FLOOR DEMOLITION PLAN - SECTION C
3.07	MD-102A	MECHANICAL SECOND FLOOR DEMOLITION PLAN - SECTION A
3.08	MD-102B	MECHANICAL SECOND FLOOR DEMOLITION PLAN - SECTION B
3.09	MD-102C	MECHANICAL SECOND FLOOR DEMOLITION PLAN - SECTION C
3.10	MD-103A	MECHANICAL ROOF DEMOLITION PLAN - SECTION A
3.11	MD-103B	MECHANICAL ROOF DEMOLITION PLAN - SECTION B
3.12	MD-103C	MECHANICAL ROOF DEMOLITION PLAN - SECTION C
3.13	M-100C	MECHANICAL BASEMENT FLOOR PLAN - SECTION C
3.14	M-101A	MECHANICAL FIRST FLOOR PLAN - SECTION A
3.15	M-101B	MECHANICAL FIRST FLOOR PLAN - SECTION B
3.16	M-101C	MECHANICAL FIRST FLOOR PLAN - SECTION C
3.17	M-102A	MECHANICAL SECOND FLOOR PLAN - SECTION A
3.18	M-102B	MECHANICAL SECOND FLOOR PLAN - SECTION B
3.19	M-102C	MECHANICAL SECOND FLOOR PLAN - SECTION C

- 3.20 M-103A MECHANICAL ROOF PLAN - SECTION A
- 3.21 M-103B MECHANICAL ROOF PLAN - SECTION B
- 3.22 M-103C MECHANICAL ROOF PLAN - SECTION C
- 3.23 MP-101A MECHANICAL FIRST FLOOR PIPING PLAN - SECTION A
- 3.24 MP-101B MECHANICAL FIRST FLOOR PIPING PLAN - SECTION B
- 3.25 MP-101C MECHANICAL FIRST FLOOR PIPING PLAN - SECTION C
- 3.26 MP-102A MECHANICAL SECOND FLOOR PIPING PLAN - SECTION A
- 3.27 MP-102B MECHANICAL SECOND FLOOR PIPING PLAN - SECTION B
- 3.28 MP-102C MECHANICAL SECOND FLOOR PIPING PLAN - SECTION C
- 3.29 M-301 MECHANICAL PREP ACADEMY BOILER ROOM PART PLANS
- 3.30 M-302 MECHANICAL HIGH SCHOOL BOILER ROOM PART PLANS
- 3.31 M-303 MECHANICAL ADDITION BOILER ROOM PART PLAN
- 3.32 M-304 MECHANICAL SECTIONS & PART PLANS
- 3.33 M-401 MECHANICAL EXISTING HS HOT AND CHILLED WATER RISER (EXISTING)
- 3.34 M-402 MECHANICAL EXISTING HS HOT AND CHILLED WATER RISER (NEW WORK)
- 3.35 M-403 MECHANICAL ADDITION HOT AND CHILLED WATER RISER
- 3.36 M-404 MECHANICAL ADDITION ROOF MECH ROOM FLOW DIAGRAM
- 3.37 M-405 MECHANICAL AIR FLOW RISER DIAGRAMS
- 3.38 M-406 MECHANICAL BOILER RISER DIAGRAMS (HS AND ADDITION)
- 3.39 M-501 MECHANICAL SCHEDULES
- 3.40 M-502 MECHANICAL SCHEDULES
- 3.41 M-503 MECHANICAL SCHEDULES
- 3.42 M-504 MECHANICAL SCHEDULES
- 3.43 M-505 MECHANICAL SCHEDULES
- 3.44 M-506 MECHANICAL SCHEDULES
- 3.45 M-601 MECHANICAL DETAILS
- 3.46 M-602 MECHANICAL DETAILS
- 3.47 M-603 MECHANICAL DETAILS
- 3.48 M-604 MECHANICAL DETAILS
- 3.49 M-605 MECHANICAL DETAILS
- 3.50 M-606 MECHANICAL DETAILS

- 3.51 M-607 MECHANICAL DETAILS
- 3.52 M-608 MECHANICAL DETAILS
- 3.53 M-609 MECHANICAL DETAILS
- 3.54 M-610 MECHANICAL DETAILS
- 3.55 M-701 MECHANICAL CONTROLS DIAGRAMS
- 3.56 M-702 MECHANICAL CONTROLS DIAGRAMS
- 3.57 M-703 MECHANICAL CONTROLS DIAGRAMS
- 3.58 M-704 MECHANICAL CONTROLS DIAGRAMS
- 3.59 M-705 MECHANICAL CONTROLS DIAGRAMS
- 3.60 M-706 MECHANICAL CONTROLS DIAGRAMS
- 3.61 M-707 MECHANICAL CONTROLS DIAGRAMS

H. SUPPLEMENTAL INFORMATION:

(Not applicable.)

Any bidder attempting to contact government officials (elected or appointed), including NJSDA Board members, NJSDA Staff (except for Procurement), Selection Committee members, NJSDA Consultants, and School District officials for information relating to this project or in an effort to influence the selection process may be immediately disqualified.

End of Addendum No. 3


NJSDA _____ Date 1.18.19

Addendum #3

New Jersey Schools Development Authority
32 East Front Street
Trenton, New Jersey 08625
Phone: 609-858-2981

Date: January 18, 2019

PROJECT #: ES-0042-C01

DESCRIPTION: Orange High School Addition & Renovation

Acknowledgement of Receipt of Addendum

Contractor must acknowledge the receipt of the Addendum by signing in the space provided below and returning via email to Alison Perry at aperry@njsda.gov. Signed acknowledgement must be received prior to the Bid Due Date. Acknowledgement of the Addendum must be made in Section E.5 of the Price Proposal Submission.

Signature

Print Name

Company Name

Date