



**Board of County
Commissioners**
Pete Gerken
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Tina Skeldon Wozniak
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Office of Support Services
Kelly Roberts
Director
Lynn DiPierro
Manager

Addendum #1 - Issued on January 7, 2013

Regarding Bids for **Engineer Rd. Maint. Building, Plumbing, Electrical Mechanical & General Trades Construction (ITB 12-041C)** for Lucas County Engineer Department, bid opening scheduled for January 10, 2013 at 2:00 P.M. (local time).

This document becomes a fully incorporated part of the specifications, and this letter constitutes legal notice of this requirement.

The entire original Bid Packet including this addendum must be submitted prior to the Bid Opening Date and Time.

Following are questions submitted to Lucas County Engineer Department and the subsequent answers:

Addendum Includes:

1. RFI Responses and Clarifications
2. Revised pricing Sheet
3. Drawing and Specification Write-up
4. Specifications
5. Substitution Documents

ADDENDUM NO. 01

Lucas County Road Maintenance Building
Bid Package #12-041C – Plumbing, Mechanical, Electrical and General Trades
Dated 1/7/2013

Bidders on the above bid package shall note and respond to the following:

1. Questions:

- a) (All) Question – Addendum #2 from the first bid calls for the General Trades Contractor to include an allowance of \$7,500 for Final Cleaning. Is this still required? I didn't see it called out anywhere in the Rebid documents.

Answer: Correct, The General Trades contractor shall include \$7,500 allowance for Final Cleaning and shall be used as directed by the Construction Manager. All overhead and profit for this \$7,500 is to be included in the base bid number and not the allowance amount. The remaining allowance balance at the completion of the project will be returned to the owner via a deduct change order.

- b) (All) Question – General Trades Painting Scope does not mention concrete sealer to be done by the Painter but it's still in the painting spec. 09912 Item 2.8. Confirm who does? Interior Only?

Answer: General Trades is responsible for application of the concrete sealer specified in Section 09912 Item 2.8 including to the concrete surfaces of the salt storage building.

- c) (All) Question – Need Fire Extinguisher and Cabinet Specification. Nothing shown in Fire Protection Spec. #210000.

Answer: Specification Sections 104416 "Fire Extinguishers" and Section 104413 "Fire Protection Cabinets" are included in Addendum 001.

- d) (All) Question – Confirm Plumbing Contractor is providing the shower compartment along with the shower curtain and rod. Plus the shower grab bars.

Answer: Correct

- e) (All) Question – General Trades Scope 5.6.12. Need more information / Spec on warm air dryers 5.6.12.4. Accessory Schedule Drawing A1.11 calls for paper towel by owner.

Answer: There are no warm air hand dryers included in this project. Reference to warm-air dryers in Section 102800 have been deleted in written narrative for Addendum 001.

- f) (All) Question – Under Lav. Guards 5.6.12.5 are not these by the plumbing contractor?

Answer: by General Trades

- g) (All) Question – Confirm Project Labor Agreement is for on-site labor only.

Answer: Board of Lucas County Commissioners and the Northwestern Ohio Building & Construction Trades Council has come to an agreement as stated below.

That any construction work performed for the project off-site and not adjacent to the work site does not fall under this project labor agreement for the purposes of Article III of the Project Labor Agreement.

- h) (All) Question – Do the vehicle lift installers need to sign the project labor agreement?

Answer: Yes, for all work executed on-site.

- i) (All) Question – Confirm W6x15 Guard Rail Post Detail A5/A1.01 is galvanized and does not need painting.

Answer: Not part of bid package, included in Shell Package already awarded.

- j) (All) Question – Concrete Room #122 – Confirm no plywood or 2-1/2" wall insulation on exterior walls.

Answer: Refer to referenced wall sections on sheets A4.11 and A4.14 as indicated on floor plan on sheet A1.01.

- k) (All) Question – Confirm all garage area plywood over the rigid 2-1/2" foam insulation does not have to be fire retardant except for bulk oil room #125. Also confirm facing grade of plywood is BC and all will be painted.

Answer: Fire-retardant treated plywood is required in bulk oil room #125. All other areas the plywood is not specified to be fire-retardant treated. See written narrative for Addendum 001.

- l) (General Trades) Question – Confirm General Trades Contractor has nothing to do with fuel station.

Answer: Correct

- m) (Plumbing & General Trades) Question – Confirm who provides the S/S Shelf in wash bay detail C3 & D3 on A2.01?

Answer: The Plumbing Contractor is to furnish and install all necessary supports and shelf required for the Wash Bay Equipment.

- n) (General Trades) Question – Confirm Vehicle Lifts are (1) 12,000# twin post & (1) 75,000# parallelogram.

Answer: Specification section 11 1400 "Vehicle Lift Equipment" provides the requirements for vehicle lift devices. The required vehicle lift units required are specified in Sections 2.1 and 2.3. An alternate to the vehicle lift specified in Section 2.1 is outlined in Section 2.2 (pantogram) and an alternate price is required for this unit.

- o) (General Trades) Question – Confirm all concrete slab interior and exterior control joints and construction joints including the salt dome building is to be caulked by the general trades contractor. Also fuel station caulking is by the fuel station contractor.

Answer: General Trades Contractor is responsible for all sealants including the salt storage building. The fuel station contractor is responsible for sealants associated for the work at the fueling islands. The General Trades Contractor is responsible for sealant all conduit and similar penetrations into the main building.

- p) (General Trades) Question – Confirm Fire Protection Piping is not to be painted.

Answer: Correct

- q) (General Trades) Question – Is the south gate a manual, double swing gate or a rolling gate with power operator?

Answer: South gate shall be motor-operated, sliding gate system. The North gate is manual swing.

- r) (General Trades) Question – Is the Chain Link Perimeter Fence part of this re-bid?

Answer: Yes, Reference Scope of Work Section 5.6.5

- s) (All) Question – Are we to include tight curl end treatment on exposed ends of guardrail?

Answer: No, this was part of the shell package that has already been awarded.

- t) (All) Question – Is Guardrails part of the re-bid?

Answer: No, this was part of the shell package that has already been awarded.

- u) (All) Question – Who is responsible for providing and installing the wash bay equipment (plumbing contractor or general trades contractor)?

Answer: Plumbing Contractor – Reference Scope of Work section 2.1.19

- v) (All) Question – Who is responsible for providing and installing the wash bay equipment (plumbing contractor or general trades contractor)?

Answer: Plumbing Contractor – Reference Scope of Work section 2.1.19

- w) (General Trades and Electrical) Clarification and Alternate – The General Trades Contractor shall include the Parallelogram Lift in the base bid of the proposal (Reference Scope of Work Item 5.6.6). A mandatory alternate shall be required to switch from the Parallelogram Lift to a Pantogram Lift (Reference Specifications and revised pricing sheet).

Answer: Reference Attached Revised Pricing Sheet.

- x) (All) Clarification: Below is the revised Estimated Budget for both packages.

Plumbing Package Estimate:

Mechanical Package Estimate:

Electrical Package Estimate:

General Trades Package Estimate:

No Change from Bid Documents

No Change from Bid Documents

No Change from Bid Documents

\$527,447.00

2. Due Date:

- a) No change to the Original Bid Package Due Date (*January 10, 2013 at 2:00 PM*)

3. Attachments Included in Addendum:

- a) Revised Pricing Sheet
- b) Drawing and Specification Write-up
- c) Specifications 01770, 104413 and 104416
- d) Substitution Documents

All other terms and conditions of to the original bid package remain in effect. Please sign and submit this addendum with the Pricing Sheet on the Bid Package Due Date.

ACCEPTED BY:

Name of Contractor:

By (Signature):

Date

PRICING SHEET

Lucas County Road Maintenance Building

Company Name _____

Street Address _____

City, State, Zip _____

Mailing Address _____
(If Different)

Contact Name _____

Phone No. _____

Fax No. _____

Email Address _____

DUE: January 10, 2013 @ 2:00 PM LOCAL TIME

**TO: Lucas County Commissioners
One Government Center, Suite 480
Toledo OH 43604-2259**

We, the undersigned, having carefully examined the Bid Documents agree to perform all work required by these documents heretofore submitted to bidder, as modified by any addenda listed herein.

1.0 BASE BID

Provide all necessary labor, material, supervision, taxes, insurance, cartage, storage, temporary protection, tools, equipment, layout, field engineering, and all things necessary or incidental to furnish, deliver and install complete in every detail the Work as defined by the drawings and specifications for the lump sum price of:

BID ITEM:

1.1 Lucas County Road Maintenance Building – Plumbing Package:

Base Bid Amount: _____

_____ Dollars \$: _____

1.2 Lucas County Road Maintenance Building – Mechanical Package:

Base Bid Amount: _____
_____ Dollars \$: _____

1.3 Lucas County Road Maintenance Building – Electrical Package:

Base Bid Amount: _____
_____ Dollars \$: _____

1.4 Lucas County Road Maintenance Building – General Trades Package:

Base Bid Amount: _____
_____ Dollars \$: _____

1.5 COMBINED BID – Lucas County Road Maintenance Building:

Base Bid Amount: _____
_____ Dollars \$: _____

Check ALL of the Packages that are included in the above Combined Bid Amount:

- | | |
|------------------------|-----|
| Plumbing Package | [] |
| Mechanical Package | [] |
| Electrical Package | [] |
| General Trades Package | [] |

2.0 MANDATORY ALTERNATES

2.1 General Trades & Electrical – Alternate 1 - Furnish and Install a Pantogram Lift in lieu of the Parallelogram Lift in the Base Bid as per the drawings and specifications.

Alternate Bid Amount: _____
_____ Dollars \$: _____

3.0 CONTRACTOR'S FEE

After the signing of the contracts for the work included for this project, in the event it becomes necessary to authorize changes to the Scope of Work included in the Base Bid, the following "fees" shall apply.

- a. For additional work performed by your own forces, a fee of eight percent (8) of the approved cost of the work.

- b. For additional work performed by Subcontractors, a fee of five percent (5) of Subcontractor's approved cost of the work.

The "fee" stated above shall be the total amount to be added to the "approved cost" of the extra work and shall include "Profit and Overhead".

Cost shall be limited to the following: Cost of materials, including applicable tax and cost of delivery, cost of labor and applicable fringe benefits including Social Security, and Unemployment Insurance (labor cost may include a pro rata share of foreman's time; Workmen's Compensation and other applicable insurance); rental value of power tools and equipment.

Profit and Overhead shall include the following: travel, supervision, wages of timekeepers, watchmen and clerks, small tools, incidentals, general office expense and all other expenses not included in "Cost". The cost as used herein shall include all items of labor, materials, and equipment.

Fee shall include all profit and overhead and shall include the following: Travel other than required by Labor Agreement for trades directly involved in the work, supervision, wages of timekeepers, field engineers and clerks, small tools, incidentals, general field and main office expense and all other expenses not included in "Cost".

4.0 ADDENDA

In the event that addenda have been received during the bidding period covering changes to the bid documents, the undersigned bidder subscribes to the following statement:

The work described in the following addenda is included in this proposal:

Addendum No. _____, Dated _____ Addendum No. _____, Dated _____

Addendum No. _____, Dated _____ Addendum No. _____, Dated _____

5.0 TIME OF COMPLETION

The undersigned bidder agrees to complete the work in accordance with the project schedule, as outlined in the Bid Documents.

6.0 REJECTION OF BIDS

The undersigned bidder acknowledges that the Owner reserves the right to reject any or all proposals and to award the work to other than the low bidder.

All bids will be opened publicly.

7.0 SITE INSPECTION

The undersigned bidder acknowledges that bidder has been afforded the opportunity to inspect the jobsite to arrive at a clear understanding of the conditions under which the work is to be done; to compare the site with the drawings and specifications; to satisfy bidder as to the condition of the premises; existing obstructions; condition, location, and size and configuration of buildings and areas allocated for construction purposes; location and availability of roads; location and availability of utilities,

including the electrical characteristics of the available power; proximity and nature of Owner's existing operations; and any other conditions affecting the performance of the work.

No allowances or extra consideration on behalf of the undersigned bidder will be allowed by Owner by reason of additional costs, damages or other difficulties incurred by the undersigned bidder that could have been avoided had an adequate site inspection been undertaken by him.

8.0 EEO AND MBE

The undersigned bidder agrees to comply with all applicable local, state, and federal EEO and MBE goals and additional goals as set forth in the bid documents. See attached MBE Affidavit of Compliance and Bidder MBE Utilization Forms.

9.0 PRICE GUARANTEE

The undersigned bidder agrees that this proposal will remain firm for a period of not less than sixty (60) days and a maximum of _____ days.

10.0 LEGAL STATUS AND SIGNATURE OF BIDDER

Check one of the following:

- a. Bidder is an individual _____.
- b. Bidder is a corporation _____.
- c. Bidder is a partnership _____.

- 1) If Corporation -
State of Corporation _____

States in which qualified to do business -

- 2) If partnership, list names of all partners.

Name of Contractor

By (Signature)

Title

Address of Bidder

January 7, 2013

ADDENDUM NO. 001

To the Drawings and Specifications for:

**Lucas County Road Maintenance Building
General Trades – MEP Package**

106049

Lucas County Board of Commissioners

Prepared By:

THE COLLABORATIVE INC
Architects
Landscape Architects
Interior Designers
500 Madison Avenue
Toledo, Ohio 43604
Telephone: (419) 242-7405
Fax: (419) 242-7400

TO ALL BIDDERS:

This addendum supplements and amends the original drawings and specifications, and shall be taken into account in preparing proposals, and shall become a part of the contract documents. Receipt of this Addendum must be acknowledged in the Bid Form.

GENERAL

Questions:

- A. Refer to bidder questions list published with this addendum from the Construction Manager.

Clarifications

None

Specifications

Section 01 7700 CLOSEOUT (Newly issued)

Item #1 Section issued new in its entirety.

Section 06 1600 SHEATHING (Not Re-issued)

Item #1 Part 2, Section 2.2, Paragraph A: Delete paragraph and relates sub-paragraph referencing FSC Certified Wood. This is not a requirement for this project.

Item #2 Part 2, Section 2.3, Paragraph E: Revise to read as follows: "Treat plywood located within room Bulk Oil 125 only."

Item #3 Part 2, Section 2.4, Paragraph A: Add item #3 as follows: "Facing Grades: B-C with best face to the interior of the space or room."

Section 10 2800 TOILET, BATH, AND LAUNDRY ACCESSORIES (Not Re-issued)

Item #1 Part 1, Section 1.2, Paragraph A, Item 3: Delete "warm-air dryers" reference from this section.

Section 10 4113 FIRE PROTECTION CABINETS (Newly issued)

Item #1 Section issued new in its entirety.

Section 10 4116 FIRE EXTINGUISHERS (Newly issued)

Item #1 Section issued new in its entirety.

Section 13 3200 SALT STORAGE BUILDING (Not Re-issued)

Item #1 Part 2, Section 2.1, Paragraph A: Add the following as an approved manufacturer: Winkler Structures/Winkler Canvas, Ltd.; Telephone: (800) 852-2638.

Drawings

None

SECTION 017700 - CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
 - 1. Substantial Completion procedures.
 - 2. Final completion procedures.
 - 3. Warranties.
 - 4. Final cleaning.
 - 5. Repair of the Work.
- B. Related Requirements:
 - 1. Section 017300 "Execution" for progress cleaning of Project site.

1.3 ACTION SUBMITTALS

- A. Product Data: For cleaning agents.
- B. Contractor's List of Incomplete Items: Initial submittal at Substantial Completion.
- C. Certified List of Incomplete Items: Final submittal at Final Completion.

1.4 MAINTENANCE MATERIAL SUBMITTALS

- A. Schedule of Maintenance Material Items: For maintenance material submittal items specified in other Sections.

1.5 SUBSTANTIAL COMPLETION PROCEDURES

- A. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's punch list), indicating the value of each item on the list and reasons why the Work is incomplete.

- B. Submittals Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
1. Submit closeout submittals specified in other Division 01 Sections, General Conditions or Contract Requirements, including project record documents, operation and maintenance manuals, final completion construction photographic documentation, damage or settlement surveys, property surveys, and similar final record information.
 2. Submit closeout submittals specified in individual Sections, including specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
 3. Submit maintenance material submittals specified in individual Sections, including tools, spare parts, extra materials, and similar items, and deliver to location designated by Construction Manager. Label with manufacturer's name and model number where applicable.
 - a. Schedule of Maintenance Material Items: Prepare and submit schedule of maintenance material submittal items, including name and quantity of each item and name and number of related Specification Section. Obtain Construction Manager's signature for receipt of submittals.
 4. Submit test/adjust/balance records.
 5. Submit changeover information related to Owner's occupancy, use, operation, and maintenance.
- C. Procedures Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
1. Make final changeover of permanent locks and deliver keys to Owner. Advise Owner's personnel of changeover in security provisions.
 2. Complete startup and testing of systems and equipment.
 3. Perform preventive maintenance on equipment used prior to Substantial Completion.
 4. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems.
 5. Advise Owner of changeover in heat and other utilities.
 6. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements.
 7. Complete final cleaning requirements, including touchup painting.
 8. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.
- D. Inspection: Submit a written request for inspection to determine Substantial Completion a minimum of 10 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect and Construction Manager will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Architect, that must be completed or corrected before certificate will be issued.
1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
 2. Results of completed inspection will form the basis of requirements for final completion.

1.6 FINAL COMPLETION PROCEDURES

- A. Submittals Prior to Final Completion: Before requesting final inspection for determining final completion, complete the following:
1. Submit a final Application for Payment according to Contract requirements.
 2. Certified List of Incomplete Items: Submit certified copy of Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect. Certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
- B. Inspection: Submit a written request for final inspection to determine acceptance a minimum of 10 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect and Construction Manager will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.
1. Reinspection: Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

1.7 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

- A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.
1. Organize list of spaces in sequential order, starting with exterior areas first and proceeding from lowest floor to highest floor.
 2. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems.
 3. Include the following information at the top of each page:
 - a. Project name.
 - b. Date.
 - c. Name of Architect and Construction Manager.
 - d. Name of Contractor.
 - e. Page number.

1.8 SUBMITTAL OF PROJECT WARRANTIES

- A. Time of Submittal: Submit written warranties on request of Architect for designated portions of the Work where commencement of warranties other than date of Substantial Completion is indicated, or when delay in submittal of warranties might limit Owner's rights under warranty.
- B. Organize warranty documents into an orderly sequence based on the table of contents of Project Manual.
1. Bind warranties and bonds in heavy-duty, three-ring, vinyl-covered, loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive **8-1/2-by-11-inch (215-by-280-mm)** paper.
 2. Provide heavy paper dividers with plastic-covered tabs for each separate warranty. Mark tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product and the name, address, and telephone number of Installer.

3. Identify each binder on the front and spine with the typed or printed title "WARRANTIES," Project name, and name of Contractor.
 4. Warranty Electronic File: Scan warranties and bonds and assemble complete warranty and bond submittal package into a single indexed electronic PDF file with links enabling navigation to each item. Provide bookmarked table of contents at beginning of document.
- C. Provide additional copies of each warranty to include in operation and maintenance manuals.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

PART 3 - EXECUTION

3.1 FINAL CLEANING

- A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.
- B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a designated portion of Project:
 - a. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
 - b. Remove debris and surface dust from limited access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
 - c. Sweep concrete floors broom clean in unoccupied spaces.
 - d. Vacuum carpet and similar soft surfaces, removing debris and excess nap; clean according to manufacturer's recommendations if visible soil or stains remain.
 - e. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Polish mirrors and glass, taking care not to scratch surfaces.
 - f. Remove labels that are not permanent.
 - g. Wipe surfaces of mechanical and electrical equipment and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.
 - h. Clean plumbing fixtures to a sanitary condition, free of stains, including stains resulting from water exposure.
 - i. Clean light fixtures, lamps, globes, and reflectors to function with full efficiency.
 - j. Leave Project clean and ready for occupancy.

- C. Construction Waste Disposal: Comply with waste disposal requirements in Contract Documents.

3.2 REPAIR OF THE WORK

- A. Complete repair and restoration operations before requesting inspection for determination of Substantial Completion.
- B. Repair or remove and replace defective construction. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment. Where damaged or worn items cannot be repaired or restored, provide replacements. Remove and replace operating components that cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified condition.
 - 1. Remove and replace chipped, scratched, and broken glass, reflective surfaces, and other damaged transparent materials.
 - 2. Touch up and otherwise repair and restore marred or exposed finishes and surfaces. Replace finishes and surfaces that that already show evidence of repair or restoration.
 - a. Do not paint over "UL" and other required labels and identification, including mechanical and electrical nameplates. Remove paint applied to required labels and identification.
 - 3. Replace parts subject to operating conditions during construction that may impede operation or reduce longevity.
 - 4. Replace burned-out bulbs, bulbs noticeably dimmed by hours of use, and defective and noisy starters in fluorescent and mercury vapor fixtures to comply with requirements for new fixtures.

END OF SECTION 017700

SECTION 10 4413 - FIRE PROTECTION CABINETS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Fire-protection cabinets for the following:
 - a. Portable fire extinguishers.
- B. Related Requirements:
 - 1. Section 104416 "Fire Extinguishers."

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product. Show door hardware, cabinet type, trim style, and panel style. Include roughing-in dimensions and details showing recessed-, semirecessed-, or surface-mounting method and relationships of box and trim to surrounding construction.
- B. Shop Drawings: For fire-protection cabinets. Include plans, elevations, sections, details, and attachments to other work.
- C. Samples: For each type of exposed finish required.
- D. Samples for Initial Selection: For each type of exposed finish required.
- E. Samples for Verification: For each type of exposed finish required, prepared on Samples 6 by 6 inches (150 by 150 mm) square.

1.4 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For fire-protection cabinets to include in maintenance manuals.

1.5 COORDINATION

- A. Coordinate size of fire-protection cabinets to ensure that type and capacity of fire extinguishers indicated are accommodated.
- B. Coordinate sizes and locations of fire-protection cabinets with wall depths.

1.6 SEQUENCING

- A. Apply vinyl lettering on field-painted fire-protection cabinets after painting is complete.

PART 2 - PRODUCTS

2.1 FIRE-PROTECTION CABINET

- A. Cabinet Type: Suitable for fire extinguisher. Basis-of-Design is Potter-Roemer Model 7023.
 - 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. Fire-End & Croker Corporation.
 - b. JL Industries, Inc.; a division of the Activar Construction Products Group.
 - c. Larsens Manufacturing Company.
 - d. Potter Roemer LLC.
- B. Cabinet Construction: Nonrated.
- C. Cabinet Material: Cold-rolled steel sheet.
 - 1. Shelf: Same metal and finish as cabinet.
- D. Semirecessed Cabinet: One-piece combination trim and perimeter door frame overlapping surrounding wall surface with exposed trim face and wall return at outer edge (backbend). For use within office and associated areas.
 - 1. Rolled-Edge Trim: 3-inch (76-mm) to 4-inch (101-mm) backbend depth.
- E. Surface-Mounted Cabinet: Cabinet box fully exposed and mounted directly on wall with no trim. For installation in garage and repair areas.
- F. Cabinet Trim Material: Steel sheet.
- G. Door Material: Steel sheet.
- H. Door Style: Vertical duo panel with frame.
- I. Door Glazing: Tempered float glass (clear.)

- J. Door Hardware: Manufacturer's standard door-operating hardware of proper type for cabinet type, trim style, and door material and style indicated.
1. Provide continuous hinge, of same material and finish as trim, permitting door to open 180 degrees.
- K. Accessories:
1. Mounting Bracket: Manufacturer's standard steel, designed to secure fire extinguisher to fire-protection cabinet, of sizes required for types and capacities of fire extinguishers indicated, with plated or baked-enamel finish.
 2. Identification: Lettering complying with authorities having jurisdiction for letter style, size, spacing, and location. Locate as directed by Architect.
 - a. Identify fire extinguisher in fire-protection cabinet with the words "FIRE EXTINGUISHER."
 - 1) Location: Applied to cabinet door.
 - 2) Application Process: Pressure-sensitive vinyl letters.
 - 3) Lettering Color: Black.
 - 4) Orientation: Vertical.
- L. Materials:
1. Cold-Rolled Steel: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B.
 - a. Finish: Factory primed for field painting.
 2. Tempered Float Glass: ASTM C 1048, Kind FT, Condition A, Type I, Quality q3, 3 mm thick, Class 1 (clear.)

2.2 FABRICATION

- A. Fire-Protection Cabinets: Provide manufacturer's standard box (tub) with trim, frame, door, and hardware to suit cabinet type, trim style, and door style indicated.
1. Weld joints and grind smooth.
 2. Provide factory-drilled mounting holes.
- B. Cabinet Doors: Fabricate doors according to manufacturer's standards, from materials indicated and coordinated with cabinet types and trim styles.
1. Fabricate door frames with tubular stiles and rails and hollow-metal design, minimum 1/2 inch (13 mm) thick.
 2. Fabricate door frames of one-piece construction with edges flanged.
 3. Miter and weld perimeter door frames.

- C. Cabinet Trim: Fabricate cabinet trim in one piece with corners mitered, welded, and ground smooth.

2.3 GENERAL FINISH REQUIREMENTS

- A. Comply with NAAMM's AMP 500, "Metal Finishes Manual for Architectural and Metal Products," for recommendations for applying and designating finishes.
- B. Protect mechanical finishes on exposed surfaces of fire-protection cabinets from damage by applying a strippable, temporary protective covering before shipping.
- C. Finish fire-protection cabinets after assembly.
- D. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine walls and partitions for suitable framing depth and blocking where semirecessed cabinets will be installed.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Prepare recesses for semirecessed fire-protection cabinets as required by type and size of cabinet and trim style.

3.3 INSTALLATION

- A. General: Install fire-protection cabinets in locations and at mounting heights indicated or, if not indicated, at heights acceptable to authorities having jurisdiction.
 - 1. Fire-Protection Cabinets: 54 inches (1372 mm) above finished floor to top of cabinet.
- B. Fire-Protection Cabinets: Fasten cabinets to structure, square and plumb.
 - 1. Unless otherwise indicated, provide recessed fire-protection cabinets. If wall thickness is inadequate for recessed cabinets, provide semirecessed fire-protection cabinets.
 - 2. Fasten mounting brackets to inside surface of fire-protection cabinets, square and plumb.

- C. Identification: Apply vinyl lettering at locations indicated.

3.4 ADJUSTING AND CLEANING

- A. Remove temporary protective coverings and strippable films, if any, as fire-protection cabinets are installed unless otherwise indicated in manufacturer's written installation instructions.
- B. Adjust fire-protection cabinet doors to operate easily without binding. Verify that integral locking devices operate properly.
- C. On completion of fire-protection cabinet installation, clean interior and exterior surfaces as recommended by manufacturer.
- D. Touch up marred finishes, or replace fire-protection cabinets that cannot be restored to factory-finished appearance. Use only materials and procedures recommended or furnished by fire-protection cabinet and mounting bracket manufacturers.
- E. Replace fire-protection cabinets that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION 10 4413

SECTION 10 4416 - FIRE EXTINGUISHERS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes portable, hand-carried fire extinguishers and mounting brackets for fire extinguishers.
- B. Related Requirements:
 - 1. Section 104413 "Fire Protection Cabinets."

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include rating and classification, material descriptions, dimensions of individual components and profiles, and finishes for fire extinguisher and mounting brackets.

1.4 INFORMATIONAL SUBMITTALS

- A. Warranty: Sample of special warranty.

1.5 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For fire extinguishers to include in maintenance manuals.

1.6 COORDINATION

- A. Coordinate type and capacity of fire extinguishers with fire-protection cabinets to ensure fit and function.

1.7 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace fire extinguishers that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Failure of hydrostatic test according to NFPA 10.
 - b. Faulty operation of valves or release levers.
 - 2. Warranty Period: Six years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. NFPA Compliance: Fabricate and label fire extinguishers to comply with NFPA 10, "Portable Fire Extinguishers."
- B. Fire Extinguishers: Listed and labeled for type, rating, and classification by an independent testing agency acceptable to authorities having jurisdiction.
 - 1. Provide fire extinguishers approved, listed, and labeled by FM Global.

2.2 PORTABLE, HAND-CARRIED FIRE EXTINGUISHERS

- A. Fire Extinguishers: Type, size, and capacity for each fire-protection cabinet and mounting bracket indicated.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Badger Fire Protection.
 - b. Fire End & Croker Corporation.
 - c. JL Industries, Inc.; a division of the Activar Construction Products Group.
 - d. Larsens Manufacturing Company.
 - e. Potter Roemer LLC.
 - 2. Valves: Manufacturer's standard.
 - 3. Handles and Levers: Manufacturer's standard.
 - 4. Instruction Labels: Include pictorial marking system complying with NFPA 10, Appendix B, and bar coding for documenting fire-extinguisher location, inspections, maintenance, and recharging.

- B. Multipurpose Dry-Chemical Type in Aluminum Container: UL-rated 4-A:60-B:C, 10-lb (2.3-kg) nominal capacity, with monoammonium phosphate-based dry chemical in enameled-aluminum container.

2.3 MOUNTING BRACKETS

- A. Mounting Brackets: Manufacturer's standard steel, designed to secure fire extinguisher to wall or structure, of sizes required for types and capacities of fire extinguishers indicated, with plated or black baked-enamel finish.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Fire End & Croker Corporation.
 - b. JL Industries, Inc.; a division of the Activar Construction Products Group.
 - c. Larsens Manufacturing Company.
 - d. Potter Roemer LLC.
- B. Identification: Lettering complying with authorities having jurisdiction for letter style, size, spacing, and location. Locate as indicated by Architect.
 - 1. Identify bracket-mounted fire extinguishers with the words "FIRE EXTINGUISHER" in red letter decals applied to mounting surface.
 - a. Orientation: Vertical.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine fire extinguishers for proper charging and tagging.
 - 1. Remove and replace damaged, defective, or undercharged fire extinguishers.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. General: Install fire extinguishers and mounting brackets in locations indicated and in compliance with requirements of authorities having jurisdiction.
 - 1. Mounting Brackets: 54 inches (1372 mm) above finished floor to top of fire extinguisher.

- B. Mounting Brackets: Fasten mounting brackets to surfaces, square and plumb, at locations indicated.
- C. Install fire extinguishers within fire protection cabinets where indicated on drawings.

END OF SECTION 10 4416

SUBSTITUTION REQUEST FORM

TO: Lucas County Purchasing
One Government Center
Suite 480
Toledo, Ohio

PROJECT: New Road Maintenance Facility for the Lucas
County Engineer
Lucas County Board of Commissioners
Holland, Ohio

A/E Project Number: 106049

Date: 01/03/13

Submitted for consideration is the following product instead of the specified item for the above-noted Project.

Specification Section and Paragraph: Section 111500 PART 2

Drawings and Details affected: DRAWING SHEET NO. E3.01

Proposed Substitution Description: COLD WATER PRESSURE WASHER (STATIONARY - ELECTRIC)

Manufacturer's Name: HYDRO ENGINEERING, INC.

WHY IS SUBSTITUTION BEING SUBMITTED? (Select one of the following):

<input checked="" type="checkbox"/>	Pre-Bid Substitution (Prior Approval): Include detailed analysis comparing proposed substitution against the specified product(s), including redlined specification sections showing differences.
<input type="checkbox"/>	Specified Product is not or no longer available. Explain in detail in attached letter.
<input type="checkbox"/>	Cost Savings to Owner. Indicate comparative cost analysis as attachment.
<input type="checkbox"/>	Other. Explain in attachment to this substitution request.

EFFECTS OF PROPOSED SUBSTITUTION

(Attach complete explanations and technical data, including laboratory test, if applicable.)
Include complete information changes to Drawings and/or Specifications that proposed substitution would require for its proper installation. Fill in the blanks below.

- Does the substitution affect dimensions shown on Drawings? No Yes
- will the undersigned pay for changes to building design, including Engineering and detailing costs caused by the requested substitution? No Yes
- What affect does substitution have on other trades?
NONE
- What are the differences between the proposed and specified items?
NONE
- Manufacturer's guarantees of proposed and specified item? Same Different
(If different, provide explanation on separate attachment.)
- Manufacturer's dimensions of proposed and specified item? Same Different
(If different, provide explanation on separate attachment.)
- Manufacturer's weight of proposed and specified item? Same Different

(If different or not applicable, provide explanation on separate attachment.)

The undersigned states that function, appearance, finish, size, weight and quality of the proposed substitution are equivalent or superior to the specified item unless clearly stated as different on included attachments.

SUBMITTED BY:

(Include name, address, telephone, and contact person of manufacturer/supplier of proposed substitution.)

HYDRO ENGINEERING, INC
865 West 2600 South
SALT LAKE CITY, UTAH 84119
Phone 800-247-8424
Contact: RANDY HERRICK

For Design Team Use:

	Accepted			Accepted As Noted
X	Not Accepted			Received too late to review
X	Incomplete Information			
	No Substitution Allowed for specified item			

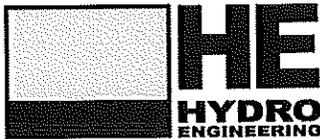
Reviewed by: Audie Bates, AIA
Date: January 4, 2013
Comments: See note to right.

Specification Paragraph 1.3 B.1 required installer to be authorized rep and located not more than 1 hour normal drive. No list of local authorized installers provided indicating compliance.

For Construction Manager's Use:

Reviewed by and Date: _____

END OF SUBSTITUTION FORM



865 West 2600 South, Salt Lake City, UT 84119
 Phone 800-247-8424 or 801-972-1181 Fax 801-972-3265

HYDROBLASTERS - HYDROKLEEN - HYDROPAD

www.hydroblaster.com

Model E Electric Powered, Cold Water Hydroblaster™

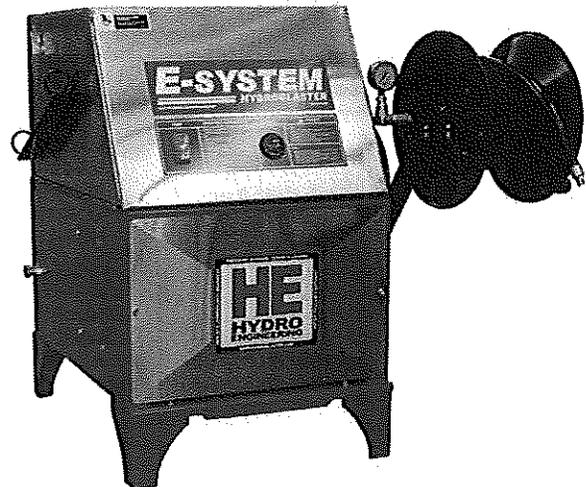
Hydro Engineering Inc. builds the most industrial and rugged electric powered cold water pressure washers available anywhere. With our full range of available pressure, flows and features, all certified to CE, CSA and UL, you are certain to fill the most stringent requirements.

MODEL	3/1000	4/1000	4/2000	4/3000	5/3000	5/5000	10/3000
VOLUME (GPM)	3	4	4	4	5	5	10
PRESSURE (PSI)	1000	1000	2000	3000	3000	5000	3000
ELECTRIC MOTOR(HP)	1/2	3	5	7.5	10	20	20
VOLTAGE (STD)	(A), B,C,D	(B), C, D	(B), C, D	B,(C), D	(C), D	(C), D	(C), D
AMPERAGE	17, 9, 5, 3	16, 8, 4	25, 14, 7	36,28,14	28, 14	55, 35	55, 35
DEMINSIONS	25 L X 34W X 40H						32L X 47W X 38 H
WEIGHT (LBS)	370	410	420	420	445	690	560

† Voltage codes: A=115 volt single phase, B=230 volt single phase, C=230 volt three phase, D=460 volt three phase.

Standard Features:

- UL1776, CSA & CE Certified
- Heavy duty electric motor with reset on all 1 phase
- Belt drive
- Full equipment covers
- Trigger gun with insulated variable pressure wand
- 15 degree nozzle
- 50' hose rated 3000 PSI
- Downstream chemical Injection
- 15 Degree Nozzle
- Optional Nozzle Sets And Turbo Nozzles
- 50' Discharge Hose (Longer Lengths Available)
- Downstream Chemical Injection
- Optional High Pressure Soap Injection
- Optional Remote On Off
- Optional Stainless Steel Trim Package
- Optional Portability Packages
- Optional Gauge Package Including, Hour Meter And Pressure
- Optional Hose Reel



Specifications for E, December 2012



Quality Assured Firm
 ISO 9001 Certified



HYDRO ENGINEERING, INC. QUALIFICATIONS

Founded in 1980, Hydro Engineering, Inc. designs, engineers, manufactures and services a broad spectrum of equipment and process solutions for wash/rinse decontamination and corrosion control applications. Over three decades of innovation, technological development and a commitment to customer satisfaction have resulted in market leadership through operating excellence in every segment of our industry.

Hydro Engineering, Inc., supplies and services both government and industrial customers throughout the world. GSA Contracts are established to benefit Federal agencies procurement of products and services. We are honored to play a vital role in our National Defense by supporting our troops equipment needs and service requirements wherever their mission exists.

Hydro Engineering, Inc. has extensive capabilities, wide-ranging expertise, and experienced personnel dedicated to achieve exceptional results. With impeccable standards of honesty, integrity and ethics, we constantly strive to sustain market leadership through manufacturing superiority, technological excellence, innovation, and continued customer satisfaction.

Hydro Engineering, Inc. is a certified small business headquartered in Salt Lake City, Utah. Our facilities span approximately 3-acres of property and encompass building space with more than 60,000 ft² for manufacturing, engineering, and support operations. Hydro Engineering, Inc. is Registered ISO 9001:2008 and recognized as the most professional and respected organization in the industry. Achievements include authorization to manufacture products to standards of UL, CE and CSA.

- Hydro Engineering, Inc. has completed certification and is authorized to manufacture, mark and certify all equipment to standards of UL, CE and CSA.
- ISO 9001 Certificate of Registration -- Hydro Engineering, Inc. has been assessed and registered by Intertek Testing Services NA, Inc. as conforming to the requirements of: ISO 9001:2008. The Quality Management System is applicable to: Design and manufacture of wash rack systems including; Hydrosite systems, Hydroblaster pressure washers, Hydropad above ground wash pads, and Hydrokleen wastewater filtration and recycling equipment.



Hydro Engineering, Inc. has completed certification of the Hydrokleen wastewater treatment/recycling equipment line to the UL-979 standard. Hydroblaster pressure washers have been certified to the UL-1776 standard for many years.
 Authorization to Mark and Certified to UL979, UL-1776 Standard



Testing of our Hydroblaster and Hydrokleen equipment was completed in December of 2008. Hydro Engineering is poised to sell its complete line of products to locations where CE Certification is a must. Products carry CE Certification of Conformance



Hydro Engineering, Inc. has been assessed and registered by Intertek Testing Services NA, Inc. as conforming to the requirements of: ISO 9001:2008. The Quality Management System is applicable to: Design and manufacture of wash rack systems including; Hydrosite systems, Hydroblaster pressure washers, Hydropad above ground wash pads, and Hydrokleen wastewater filtration and recycling equipment. ISO 9001 Certificate of Registration

SECTION 012500 - SUBSTITUTION PROCEDURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for substitutions.

1.3 DEFINITIONS

- A. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.
 - 1. Substitutions for Cause: Changes proposed by Contractor that are required due to changed Project conditions, such as unavailability of product, regulatory changes, or unavailability of required warranty terms.
 - 2. Substitutions for Convenience: Changes proposed by Contractor or Owner that are not required in order to meet other Project requirements but may offer advantage to Contractor or Owner.

1.4 ACTION SUBMITTALS

- A. Substitution Requests: Submit three copies of each request for consideration. Identify product or fabrication or installation method to be replaced. Include Specification Section number and title and Drawing numbers and titles.
 - 1. Substitution Request Form: Use facsimile of form provided in Project Manual.
 - 2. Documentation: Show compliance with requirements for substitutions and the following, as applicable:
 - a. Statement indicating why specified product or fabrication or installation cannot be provided, if applicable.
 - b. Coordination information, including a list of changes or revisions needed to other parts of the Work and to construction performed by Owner and separate contractors, that will be necessary to accommodate proposed substitution.
 - c. Detailed comparison of significant qualities of proposed substitution with those of the Work specified. Include annotated copy of applicable Specification Section. Significant qualities may include attributes such as performance, weight, size, durability, visual effect, sustainable design characteristics, warranties, and specific features and requirements indicated. Indicate deviations, if any, from the Work specified.
 - d. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
 - e. Samples, where applicable or requested.
 - f. Certificates and qualification data, where applicable or requested.

- g. Material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.
 - h. Research reports evidencing compliance with building code in effect for Project, from ICC-ES.
 - i. Detailed comparison of Contractor's construction schedule using proposed substitution with products specified for the Work, including effect on the overall Contract Time. If specified product or method of construction cannot be provided within the Contract Time, include letter from manufacturer, on manufacturer's letterhead, stating date of receipt of purchase order, lack of availability, or delays in delivery.
 - j. Cost information, including a proposal of change, if any, in the Contract Sum.
 - k. Contractor's certification that proposed substitution complies with requirements in the Contract Documents except as indicated in substitution request, is compatible with related materials, and is appropriate for applications indicated.
 - l. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.
3. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within five days of receipt of a request for substitution. Architect will notify Contractor through Construction Manager of acceptance or rejection of proposed substitution within 10 days of receipt of request, or five days of receipt of additional information or documentation, whichever is later.
- a. Forms of Acceptance: Change Order, Construction Change Directive, or Architect's Supplemental Instructions for minor changes in the Work.
 - b. Use product specified if Architect does not issue a decision on use of a proposed substitution within time allocated.

1.5 QUALITY ASSURANCE

- A. Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials. Engage a qualified testing agency to perform compatibility tests recommended by manufacturers.

1.6 PROCEDURES

- A. Coordination: Revise or adjust affected work as necessary to integrate work of the approved substitutions.

PART 2 - PRODUCTS

2.1 SUBSTITUTIONS

- A. Substitutions for Cause: Submit requests for substitution immediately on discovery of need for change, but not later than 15 days prior to time required for preparation and review of related submittals.
 - 1. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Architect will return requests without action, except to record noncompliance with these requirements:
 - a. Requested substitution is consistent with the Contract Documents and will produce indicated results.

- b. Requested substitution provides sustainable design characteristics that specified product provided.
 - c. Substitution request is fully documented and properly submitted.
 - d. Requested substitution will not adversely affect Contractor's construction schedule.
 - e. Requested substitution is compatible with other portions of the Work.
 - f. Requested substitution has been coordinated with other portions of the Work.
 - g. Requested substitution provides specified warranty.
 - h. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.
- B. Substitutions for Convenience: Architect will consider requests for substitution if received within 60 days after commencement of the Work. Requests received after that time may be considered or rejected at discretion of Architect.
1. Conditions: Architect will consider Contractor's request for substitution when the following conditions are satisfied. If the following conditions are not satisfied, Architect will return requests without action, except to record noncompliance with these requirements:
- a. Requested substitution offers Owner a substantial advantage in cost, time, energy conservation, or other considerations, after deducting additional responsibilities Owner must assume. Owner's additional responsibilities may include compensation to Architect for redesign and evaluation services, increased cost of other construction by Owner, and similar considerations.
 - b. Requested substitution does not require extensive revisions to the Contract Documents.
 - c. Requested substitution is consistent with the Contract Documents and will produce indicated results.
 - d. Requested substitution provides sustainable design characteristics that specified product provided.
 - e. Substitution request is fully documented and properly submitted.
 - f. Requested substitution will not adversely affect Contractor's construction schedule.
 - g. Requested substitution is compatible with other portions of the Work.
 - h. Requested substitution has been coordinated with other portions of the Work.
 - i. Requested substitution provides specified warranty.
 - j. If requested substitution involves more than one contractor, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.

PART 3 - EXECUTION (See Form Below)

END OF SECTION 012500

SUBSTITUTION REQUEST FORM

TO: Lucas County Purchasing
One Government Center
Suite 480
Toledo, Ohio

PROJECT: New Road Maintenance Facility for the Lucas
County Engineer
Lucas County Board of Commissioners
Holland, Ohio

A/E Project Number: 106049

Date: 12/3/12

Submitted for consideration is the following product instead of the specified item for the above-noted Project.

Specification Section and Paragraph: 133200 salt Storage Building

Drawings and Details affected: _____

Proposed Substitution Description: Salt Building / Roof system

Manufacturer's Name: Winkler Structures / Winkler Canvoo LTD

WHY IS SUBSTITUTION BEING SUBMITTED? (Select one of the following):

<input type="checkbox"/>	Pre-Bid Substitution (Prior Approval): Include detailed analysis comparing proposed substitution against the specified product(s), including redlined specification sections showing differences.
<input type="checkbox"/>	Specified Product is not or no longer available. Explain in detail in attached letter.
<input type="checkbox"/>	Cost Savings to Owner. Indicate comparative cost analysis as attachment.
<input checked="" type="checkbox"/>	Other. Explain in attachment to this substitution request.

EFFECTS OF PROPOSED SUBSTITUTION

(Attach complete explanations and technical data, including laboratory test, if applicable.)

Include complete information changes to Drawings and/or Specifications that proposed substitution would require for its proper installation. Fill in the blanks below.

- Does the substitution affect dimensions shown on Drawings? No Yes
- will the undersigned pay for changes to building design, including Engineering and detailing costs caused by the requested substitution? No Yes
- What affect does substitution have on other trades?
Additional Supplier
- What are the differences between the proposed and specified items?
Some Building Concept
- Manufacturer's guarantees of proposed and specified item? Same Different
(If different, provide explanation on separate attachment.)
- Manufacturer's dimensions of proposed and specified item? Same Different
(If different, provide explanation on separate attachment.)
- Manufacturer's weight of proposed and specified item? Same Different

(If different or not applicable, provide explanation on separate attachment.)

The undersigned states that function, appearance, finish, size, weight and quality of the proposed substitution are equivalent or superior to the specified item unless clearly stated as different on included attachments.

SUBMITTED BY:

(Include name, address, telephone, and contact person of manufacturer/supplier of proposed substitution.)

Miller Builders LLC
PO Box 69 Apple Creek, OH. 44606
(330) 698-0505
Winkler Structures
800 852-2638

For Design Team Use:

Accepted	<input checked="" type="checkbox"/>	Accepted As Noted
Not Accepted	<input type="checkbox"/>	Received too late to review
Incomplete Information	<input type="checkbox"/>	
No Substitution Allowed for specified item	<input type="checkbox"/>	

Reviewed by: AUDIE BATES

Date: 12/31/2012

Comments: MUST COMPLY WITH ALL SPECIFICATION REQUIREMENTS.

For Construction Manager's Use:

Reviewed by and Date: _____

END OF SUBSTITUTION FORM