Addendum #06

Date: May 19, 2020

To: Bidders of Record & Plan Service Groups

Company: Redstone Architects, Inc.

Project Name: Genesee County Juvenile Justice Center

Project No: 3651.00

Phase No: H24

Distribution: Genesee County, Flint Township, State of Michigan

DOCUMENTS ISSUED WITH THIS ADDENDUM:

Project Manual Sections: 000110, 076200, 077100, 072100,

Drawings: S000, S101A, S401, A101A, A410, A802, SC000, SC500, SC501, SC502, SC503, SC701

This Addendum forms part of the Contract Documents and modifies the original Bidding Documents dated February 26, 2020. Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may subject Bidder to disqualification.

Specifications:

ITEM #1: Specification Section 000110 “Table of Contents” (reissued)
   A. Added Section 072100 “Building Insulation”
   B. Added Section 076200 “Sheet Metal Flashing and Trim”
   C. Added Section 077100 “Roof Specialties”

ITEM #2: Specification Section 072100 Building Insulation (added)

ITEM #3: Specification Section 076200 Sheet Metal Flashing and Trim (added)

ITEM #4: Specification Section 077100 Roof Specialties (added)

ITEM #5: Specification Section 083323 “Overhead Coiling Doors” (not reissued)
   A. Part 1.1, A: Deleted “and at the Outdoor Rec” and replace with “, Loading Dock, Swing B and Swing C”
   C. Clarification: Coiling Counter Door B193 shall have manual push-up operation and Coiling Counter Door B192c shall have hand crank operation.
Addendum #06

<table>
<thead>
<tr>
<th>ITEM #6:</th>
<th>Specification Section 080671 “Door Hardware Schedule” (not reissued)</th>
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<tbody>
<tr>
<td></td>
<td>A. Under Set 5.0, Doors A102, Notes: Deleted “Entrance by Aiphone” and replace with “Door Entrance by remote release from intercom system.”</td>
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<tr>
<th>ITEM #7:</th>
<th>Specification Section 107000 “Aluminum Canopy” (not reissued)</th>
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<tr>
<th>ITEM #8:</th>
<th>Specification Section 280500.01 “Common Work Results for Electrical Security” (not reissued)</th>
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<tbody>
<tr>
<td></td>
<td>A. Under Part 1.3 Related Documents, Section D: Deleted Item 5.</td>
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**Drawings:**

<table>
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<tr>
<th>ITEM #9:</th>
<th>Sheet S000 - Cover Sheet (reissued)</th>
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<tr>
<td></td>
<td>A. Revised Sheet List</td>
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<thead>
<tr>
<th>ITEM #10:</th>
<th>Sheet S101A – Foundation Plan – Zone A (reissued)</th>
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<tbody>
<tr>
<td></td>
<td>A. Shifted bollard location, including its foundation.</td>
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<thead>
<tr>
<th>ITEM #11:</th>
<th>Sheet S401 – Masonry Schedules and Typical Details (reissued)</th>
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<tbody>
<tr>
<td></td>
<td>A. Added detail E8/S401.</td>
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<tr>
<th>ITEM #12:</th>
<th>Sheet AS001-Site Plan (not reissued)</th>
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<tbody>
<tr>
<td></td>
<td>A. Added 18’-0” wide swing fence inside of temporary fence enclosure to coordinate with Civil drawings.</td>
</tr>
<tr>
<td></td>
<td>B. Added: General Notes:</td>
</tr>
<tr>
<td></td>
<td>1. Temporary fencing to consist of 12’-0” high galvanized 11GA 1” ant-climb fabric mesh with twist selvage along the top.</td>
</tr>
<tr>
<td></td>
<td>2. 18’-0” clear width opening swing gates to be manually operated.</td>
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<thead>
<tr>
<th>ITEM #13:</th>
<th>Sheet A101A – Floor Plan-Zone A (reissued)</th>
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<tbody>
<tr>
<td></td>
<td>A. Revised wall tags to identify masonry wall base conditions at walls with Structural Glazed Tile (SGT) base.</td>
</tr>
<tr>
<td></td>
<td>B. Revised wall tags at Gyp.Bd. walls in Administration suite from G3 to A3, to indicate wall are to extend to underside of deck. These walls to include sound batt insulation full height,</td>
</tr>
<tr>
<td></td>
<td>C. Revised location of lighted bollards at Staff Entry.</td>
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<tr>
<th>ITEM #14:</th>
<th>Sheets A401 and A403 (not reissued)</th>
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<tbody>
<tr>
<td></td>
<td>A. Added type F8a base to Detail 1/A401 and Detail 5/A403</td>
</tr>
</tbody>
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<tr>
<th>ITEM #15:</th>
<th>Sheet A 410 Section Details (reissued)</th>
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<tbody>
<tr>
<td></td>
<td>A. Added type F8a base to Detail 12-at partial height wall in Hearing.</td>
</tr>
</tbody>
</table>
|           | B. Added notes at Detail 9.
ITEM #16:  Sheet A710 – Finish Schedule (not reissued)
   A. Revised finishes in Room B172: Base: RB-3; All Walls: PNT-5
   B. Added Room B196 and finishes Floor: SC-3, Base RB-3, All Walls PNT-5,
      Ceiling: EXP/PNT-7, Comments: 4

ITEM #17:  Sheet A802 – Head/Jamb/Sill Details (reissued)
   A. Added masonry wall base details 25, 26, 27 and 28 at Structural Glazed Tile.

ITEM #18:  Sheet A901B-Building Signage -Zone A (Intake/Holding) and Zone B (not reissued)
   A. General Note 2D – Add Computer, Cafeteria, Kitchen and Medical/Dental.
   B. General Note 3 – Change “Unit B and Unit C” to “Zones A and Zones B”.
   C. Housing Blocks - Cell Doors – Change “Premanufactured Steel Detention Module”
      to “Detention Door Frame with 8” Jambs”.
   D. General Notes: Clarification – For door locations listed in Items 2B, 2C, 2E, 2F and
      2G provide a four-digit number at the frame head of the doors as called out per
      item.
   E. General Notes: Clarification – For door locations listed in Items 2D and Housing,
      Intake, Living and Sally Ports to Dayrooms provide identification letters/numbers
      at the 8” jamb as called out per item at these specific door locations.
      - Housing Cells: A1-A8, B1-B8, C1-C8, D1-D8, E1-E8, F1-F8
      - Showers: AS1, AS2, BS1, BS2, CS1, CS2, DS1, DS2, ES1, ES2, FS1, FS2
      - Living: AL1, AL2, AL3, BL1, BL2, BL3, CL1, CL2, CL3, DL1, DL2,
        D1, EL1, EL2, EL3, FL1, FL2, FL3
      - Sally Port to Dayroom: AB1, AB2, CD1, CD2, EF1, EF2
      - Intake Cells: I1, I2
      - Classroom/Computer: CR1, CR2, CR3
      - Gym: G1, G2
      - Canteen: CT2
      - Multipurpose: MP1
      - Cafeteria: CA1
      - Kitchen: K1, K2
      - Medical/Dental: MD1
   F. Add the Following: All security hollow metal doors not specifically listed in
      the General Notes on A901B or identified in the previous addendum items
      shall have two lines of text with eight letters per line located on the door
      leaf.

ITEM #19:  Sheet E101A – Lighting Floor Plan Zone A (not reissued)
   A. Under “Lighting Control General Requirements”, note 1.: delete word
      “ROBERT”.

ITEM #20:  Sheet E101B – Lighting Floor Plan Zone A (not reissued)
   A. Under “Lighting Control General Requirements”, note 1.: delete word “ROBERT”.
ITEM #21: Sheet SC000 – General Notes, Symbols, Abbreviations & Conventions (reissued)
   A. Security Control Systems: “EL” – has been changed to include "shown for coordination (Refer Division 08)"
   B. Door Position Switch has been changed to include: “shown for coordination (Refer Division 08)"
   C. Both REX and EX symbols have been changed to include: “shown for coordination (Refer Division 08)"

ITEM #22: Sheet SC500 – Security Details (reissued)
   A. “Scope” notes have been removed.

ITEM #23: Sheet SC501 – Security Details (reissued)
   A. “Scope” notes have been removed.

ITEM #24: Sheet SC502 – Security Details (reissued)
   A. “Scope” notes have been removed.

ITEM #25: Sheet SC503 – Security Details (reissued)
   A. “Scope” notes have been removed.

ITEM #26: Sheet SC701 – Camera Schedule (reissued)
   A. “Camera Model #’s, Resolution, Frames, Frames Per Second” have been added or changed per camera.

**Contractor Questions Submitted to County with Responses:**

ITEM #27: Specification 28 14 00 - 281400.1.14 Summary. Please provide Theory of operation for access controls doors without a detention designation. Will they need to be controlled by the PLC system as well?

All doors and gates are controlled via the PLC system. Detention designation refers to hardware grade.

ITEM #28: Specification 28 23 00
   a. 282300.2.24 IP camera’s there are PTZ camera show in the drawings package with on model number provided. Please provide an approved PTZ camera?
   
   **Axis Q6125-LE or approved equal**
   
   b. 282300.2.24.B Axis P3365-V are at End of life. Please provide approved equal?
   
   **Utilize Axis P3375-V or approved equal.**

ITEM #29: Specification 28 26 00 - 282600.2.3 Duress Panic Alarms. None of these devices where found on the drawings. If required please provide part numbers and location?

The device locations are indicated on the plans.

ITEM #30: Drawing SC000 - Pluming Notes refers to plumbing fixtures to be controlled. No schedule is found. Please provide a schedule of devices to be connected to the PLC system?

**REFER TO RESPECTIVE PLANS FOR APPLICABLE SCHEDULES.**
ITEM #31: Specification 28 05 00  

- **a.** 280500.02.1.4.C.3 Division 26 Provisions. Please confirm that all ups are to be provided by div 26 will be providing all UPS for the Div. 28 scopes of work?  
  
  **The Division 26 contractor is required to provide all UPS for Division 28. It is the responsibility of the Division 28 contractor to coordinate all Division 26 work supporting Division 28.**

- **b.** 280500.1.17.B.1.a Spare parts. Please confirm that only Power supplies and fuses are the only required spare parts to be provided?  
  
  **Yes.**

- **c.** 280500.2.1.D.1 Wireline Transmission Media. Is the division 28 contractor to provide Cisco switch only to support division 28 networked equipment?  
  
  **Yes.**

- **d.** 280500.2.3 Equipment Rack. Is Div.28 contractor to provide all racks shown in T-drawings package or just the security racks?  
  
  **Division 28 contractor is responsible for providing security racks. The Division 27 contractor is responsible for providing Division 27 racks.**

- **e.** 280500.2.9 Ethernet Switches. Is the division 28 contractor to provide Cisco switch only to support division 28 networked equipment?  
  
  **Division 28 Contractor is responsible for Ethernet Switches supporting the security system.**

- **f.** 280500.4.4.C and E. Training. Classroom training list five workstation with two students at each station. Who is to providing these workstations for the training? It list a max number of student of 15. Will additional workstation be required to support them in the trainings?  
  
  **Division 28 contractor will provide the workstations for training purposes.**

ITEM #32: Specification 28 51 23 - 285123.2.2.G Audio server Stentofon Alphacom XE is at EOL. Is AlphNet or a Harding system an approved equal?  

**Follow submittal process Substitute Materials and Equipment under Div 280500.01 37 1.23. For any product or system offered as equal substitute, it is the responsibility of the contractor to provide submittal identifying feature-by-feature comparison of the specified product or system. Substitutes not offered per this specification will be considered not equal and rejected. This applies to all Division 28 product and systems.**

ITEM #33: Drawing SC508 - Please confirm that Monitor size is correct for PLC touch screen 22” and 32”?  

**Yes. 22” monitors may be upsized based on product availability.**
## ITEM #34: Specification 28 46 19

<table>
<thead>
<tr>
<th>Specification 28 46 19</th>
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<tbody>
<tr>
<td>a. 284619.2.2.F.1 Lighting controls specification 260943 for network lighting was not provided. Please provide this specification section <strong>REFER TO RESPECTIVE PLANS FOR APPLICABLE SCHEDULES.</strong></td>
</tr>
<tr>
<td>b. 284619.2.4.C.21 Cell lighting. Please provide schedule of these devices to be integrated into the PLC system? <strong>REFER TO RESPECTIVE PLANS FOR APPLICABLE SCHEDULES</strong></td>
</tr>
<tr>
<td>c. 284619.2.4.C.22 Electrical Circuits. Please provide schedule of these devices to be integrated into the PLC system? <strong>REFER TO RESPECTIVE PLANS FOR APPLICABLE SCHEDULES</strong></td>
</tr>
<tr>
<td>d. 284619.2.4.C.24 Smoke control. Please provide schedule of these devices to be integrated into the PLC system? <strong>REFER TO RESPECTIVE PLANS FOR APPLICABLE SCHEDULES.</strong></td>
</tr>
<tr>
<td>e. 284619.2.4.C.25 Duress-Status. Please provide schedule of these devices? <strong>REFER TO RESPECTIVE PLANS FOR APPLICABLE SCHEDULES.</strong></td>
</tr>
<tr>
<td>f. 284619.2.4.C.27 Perimeter Security System. There was no devices found on the drawings. Please provide schedule for these devices? <strong>There are no Perimeter Security System under Division 284619.</strong></td>
</tr>
<tr>
<td>g. 284619.2.4.C.28 Override of exhaust Fans. Please provide schedule for these devices? <strong>REFER TO RESPECTIVE PLANS FOR APPLICABLE SCHEDULES.</strong></td>
</tr>
<tr>
<td>h. 284619.2.4.C.29 Water-Flow. These was no devices found on the drawings. Please provide schedule for these devices? <strong>REFER TO RESPECTIVE PLANS FOR APPLICABLE SCHEDULES.</strong></td>
</tr>
<tr>
<td>i. 284619.2.4.C.27 Perimeter Security System. These was no devices found on the drawings. Please provide schedule for these devices? <strong>There are no Perimeter Security System under Division 284619.</strong></td>
</tr>
<tr>
<td>j. 284619.3.2.A.7 Decorative metal security. Specification 32 31 13 was not found nor was any gates shown in the drawings package. Please advise if these is required for this project? <strong>There are no security gates under Division 284619.</strong></td>
</tr>
<tr>
<td>k. 284619.2.9.C.10 Redundant controllers. Please confirm that this is required for this project? <strong>Redundant controllers are not required.</strong></td>
</tr>
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</table>
| **ITEM #35:** | Drawing SC102  
a. Door exiting B118 looks to be missing the delayed exit devices. Please confirm that this devices is required for this door.  
**B118 not shown on SC102 plans or Div. 8.**  
b. Please confirm if Div.8 or Div.28 is providing the delayed exit devices?  
**Div. 08**  
c. Security Electronics IT room B196 has no enlarged plan. Is Div.28 contractor to provide any security equipment into this room (Rack’s, Switch’s, PLC Panels, ACS Panels, etc.)?  
**Yes. B196 can be used for Div 28 equipment.** |
| **ITEM #36:** | Drawing SC201  
a. Camera 127 is grayed out. Please confirm that this devices is still required?  
**Yes.**  
b. Racks shown in IDF rooms Is Div.27 or Div. 28 providing these devices?  
**Div 27 will provide all racks in Telecom Closets. Div 28 will provide all racks in Security Closets.** |
| **ITEM #37:** | Drawing SC505/2  
a. Is Crestron Lighting control shown is to be provide by Div.28?  
**Crestron Lighting Controls is shown for coordination. Refer to Div 26 for lighting controls requirements and coordination.**  
b. Is the Crestron to be connected to the PLC via BacNet?  
**Crestron Lighting Controls is shown for coordination. Refer to Div 26 for lighting controls requirements and coordination.** |
| **ITEM #38:** | Drawing T503 - Detail 2 shows detail of a ceiling mounted strobe. What system do these belong and are there any required for this project?  
**Refer to plans for duress button locations. Strobes are required above duress buttons where strobe symbol illustrated on plans.** |
| **ITEM #39:** | Drawing E101A, E101B - Lighting control Requirements and intent refer to” REFER TO ROBERT SUMMERS ASSOCIATES (SECURITY DOCUMENTS) FOR COMPLETE LIGHTING INTENT”. Please provide these documents?  
**Design intent is to provide API level integration of the lighting control systems with the PLC. Division 26 and 28 contractors to provide solutions to support design intent.** |
| **ITEM #40:** | The overhead door contractors are asking about a specification 083323? It is listed in the TOC but didn’t get inserted in the spec file.  
**Refer to Addendum No.5** |
| **ITEM #41:** | Spec for insulation behind brick? Arch drawings says 2”. Probably spray foam?  
**No. Wall sections call out ‘2” RIGID INSULATION’ in the cavity wall. Refer to Specification Section 072100 Building Insulation.** |
| **ITEM #42:** | Are all masonry walls grouted solid, or just that walls called out for specific security walls? (S401 vs A011).  
**Yes, all masonry walls to be grouted solid.** |
ITEM #43: I could not find a good wall cut of a regular non load bearing wall, I am assuming it only has 1 bond beam near top of non-load bearing walls unless you know differently? All interior non-bearing CMU walls to have bond beams at top and masonry lintels above openings, where applicable, and additional (2) #5 vertical reinforcement at each side of wall opening (per note 10 under Masonry Notes on S001). Also, please refer to H9/S400, D9/S400 and B9/S400 for top of walls attachment details.

ITEM #44: What window dimensions at Canteen and Multipurpose room (B162 and B165)? Refer to sheet A710A and A710B Casework and Equipment Plans for window designation tags and sheet A501 Window Elevations for dimensions.

ITEM #45: What size and spacing for the anchor bolts at top of outdoor space A402? Use ½” HILTI Kwik Bolt-TZ Expansion Anchors spaced at 16” on center with 6” minimum embedment into fully grouted CMU.

ITEM #46: The limits of disturbance on the civil plans scales to about 6.5 acres. Please confirm that the contractor is required to pay for and obtain the State NPDES Permit. Confirmed, Contractor also to provide site stormwater operator, complete required NPDES NOC inspections, and inspection forms.

ITEM #47: Sheet A405 missing. Several sections reference this sheet. Refer to Addendum No.2

ITEM #48: Addendum #5 specifies a two-year warranty for the project. Does this apply to all sections of Div. 28? Yes

ITEM #49: Section 285123, 2.1; Will Harding Instruments be added to the list of manufacturers per an addendum? Yes

ITEM #50: Drawing SC101:
   a. Devices without a detention designation are they to be controlled by the ACS or PLC system? All portal controls on this project are controlled by the PLC. ACS will provide credential based access control.
   b. The door release push buttons shown are to be connected to the ACS or the PLC system? Is there a preferred model number for these devices? These devices will be integrated into ACS and PLC, so that both systems accurately report door release request. Securitron Model PB4L-2 Momentary Pushbutton with LED would be the preferred model.
ITEM #51: Section 285116, 2.3 and 2.4; These call out for an IP Ceiling Speaker and IP Horn Speaker. Since Harding Instruments is approved, their solution would be to use a Page Zone Expander (PZE-110) in conjunction with 25V analog ceiling speakers and paging horns. Is this acceptable?  
**It is the responsibility of the contractor to present a comprehensive turnkey system which satisfies the design intent of the plans and specifications. Harding Instruments may be used, however all systems components must be approved per Section 280500.01 1.23 Substitute Materials & Equipment section. Any substitutes must be submitted including Harding Instruments products per this section to ensure design intent is achieved.**

ITEM #52: Section 285123, 2.2; this references IP intercom stations. Are IP stations required (i.e. Harding ICE-600 series), or would a 2-wire digital station (Harding ICM-420 series) be acceptable?  
**It is the responsibility of the contractor to present a comprehensive turnkey system which satisfies the design intent of the plans and specifications. Harding Instruments may be used, however all systems components must be approved per Section 280500.01 1.23 Substitute Materials & Equipment section. Any substitutes must be submitted including Harding Instruments products per this section to ensure design intent is achieved.**

ITEM #53: Section 285116, 1.2, A; Do we need to provide the hardware necessary to interface with the Owner-provided telephone system for paging?  
**Design intent ensure the Intercom/PA system to integrates into the telephone system through SIP protocol.**

ITEM #54: Section 284619, 1.8, A; items 11, 12 and 13 don’t appear to apply to this project.  
**Apply these elements where required for a complete turnkey system.**

ITEM #55: Section 284619, 1.12, A; This calls out for preventative monthly maintenance visits, yet in section 280500.01, 1.12, D, 1 – This calls out for 4 visits per year. Section 284619, 3.12, A – This calls out for 3 visits. Which is correct?  
**Most stringent requirement applies.**

ITEM #56: Drawing SC101, Room A154; Is this room to include a PLC control station? What size monitor is required? The specifications call out for a 24” monitor, but the drawing shows a 22” monitor.  
**Yes. 22” monitors may be upsized based on product availability.**

ITEM #57: Section 284619, 2.4, A, 3, b; Is a printer required for each touchscreen video control panel? If yes, what are the specifications?  
**Yes. Laser Printer, capable of 25 pages per minute nominal printing in draft mode.**

ITEM #58: Section 284619, 2.4, C, 19; Is the audio communication system to be configured to support the audio level alarm for cells that this is referring to?  
**Yes.**

ITEM #59: Section 284619, 2.7 (Administrative Management Computer); Where is this to be located?  
**Room B172**
ITEM #60: Section 284619, 2.8 (Portable Programming Computer); This does not specify that any PLC programming software is to be included on the machine. Are we to include PLC programming software? In lieu of providing a separate computer for programming, can the Administrative Management Computer be utilized instead of providing a separate portable programming computer?

This is a turnkey system. Provide Portable Programming Computer.

ITEM #61: Section 284619, 3.13; This is referencing a pushbutton control panel in Main Control. Is this not applicable?

Refer to plans. There are pushbuttons, but all control panels are Touch Screens.

ITEM #62: Section 284619, 3.2; 6; Will the interface between the PLC system and the fire system be a dry-contact interface? How many zones will the security system need to provide secondary annunciation for?

Refer to Fire Protection Plan, sheet FP101-Fire Alarm Contractor to provide system design that meets requirements for proposal.

ITEM #63: Section 284619, 2.4, C, 29; Please confirm that no water control interface will be required and that any water control interface is stand-alone and by the water management system/server specified in section 224600.

Refer to the plumbing system design and schedules.

ITEM #64: Section 282600, 2.1, B, 1; Strobes are listed in the specifications and shown on the drawings on SC506 (detail 5), T503 (detail 2), but none are shown on drawings SC101 and SC102. Are strobes to be provided? If so, at what locations?

Refer to plans for duress button locations. Strobes are required above duress buttons where strobe symbol illustrated on plans.

ITEM #65: Drawings SC101 and SC102 show wall-mounted mushroom head duress buttons, but none are specified in section 282600.

Utilize Vantech Blue Emergency Push Button with Key Reset, Manufacturer: Safety Technologies Inc., Button Model SS2440E, Cover Model: STI-6600-B

ITEM #66: Camera schedule (drawing SC701) indicates all the exterior cameras shown on drawing SC001 are 20MP cameras, although there is nothing in the specifications for a 20MP camera. Are these supposed to be 5MP cameras?

This is the multi-imager camera as shown in 28 23 00 2.26 Multi-imager Camera.

ITEM #67: Camera schedule (drawing SC701) lists all multi-imager cameras as being 20MP or 2MP. The specifications list a 12MP camera for the multi-imager.

This is the 12 MP version as specified. Please note frame rates will be adjusted as well in addendum 6.

ITEM #68: Camera schedule (drawing SC701) references 20MP PTZ cameras. There are no PTZ cameras specified.

Axis Q6125-LE or approved equal.

ITEM #69: Section 282300, 2.24, B; The Axis P3365-V has been discontinued. Replacement is P3375-V.

Axis P3375-V or approved equal.
| ITEM #70 | Section 282300, 2.25, A; Is this camera to be utilized on this project, or are we to use the 2MP dome (Axis P3365-V) listed in 2.24, B? Anti-ligature, Axis Q8414-LVS or approved equal shall be required in all cells and holding areas. |
| ITEM #71 | Drawing SC701 shows all cameras to be recorded for 90 days. To size hard drive recording system, please provide information on the following: recording rate per camera, recording on motion, or continuously (if recording on motion – what % activity level is expected?), image size? Refer to Addendum 6. |
| ITEM #72 | Section 282300, 2.26, A; Is the Axis P3719-PLE an acceptable substitute? No. It is not IK10 rated. Furthermore, all systems components must be approved per Section 280500.01 1.23 Substitute Materials & Equipment section. |
| ITEM #73 | Drawing SC505, detail #3 shows a metal detector, but nothing is shown on drawing SC101. Is the security system contractor responsible for providing and installing this metal detector? No. Metal detector was removed from the contractors scope. |
| ITEM #74 | Section 282300, 2.32, B; Is this required on this project? If so, please explain application. Yes, there are site cameras that will require them. |
| ITEM #75 | Section 282300, 2.32, C; Is this required on this project? Is so, please explain application. Section 282300, 2.32, C, refers to performance of the product not project conditions. |
| ITEM #76 | Section 282300, 1.6, A, 3; This requires contractor to make software upgrades available for a period of one year from activation of software license. Is this correct? Yes. |
| ITEM #77 | As long as the NVR Hardware specifications are met, would BCDVideo be an acceptable manufacturer for section 282300, 2.22 (NVR Hardware)? No. |
| ITEM #78 | Section 083323, 2.3, C; Who is responsible for providing the door position switches for the Overhead Doors? Low Voltage Contractor. Utilize Seco-Larm SM-226LQ or equal Wide Gap Sensors. |
| ITEM #79 | Drawing SC508, detail drawings 3-6, is all millwork/case work to be provided by Div. 12 contractor? Yes, refer to sheets A710B -Casework and Equipment Plan for location of details. Low voltage contractor to coordinate any required millwork. |
| ITEM #80 | Section 260923, 1.2, A, 6; This has a requirement to “Interface controls with PLC furnished by security contractor. All programming to be performed by security contractor.” What is the interface between the lighting system and the PLC system? (relay interface, serial interface, etc.?) What parts of the lighting system requires programming by security contractor? Design intent is for seamless integration for a turnkey solution. This may require input/output (relay) or application interface. This selection is dependent on the manufacturer systems planned for integration. |
### ITEM #81
Section 80671, door schedule for doors A101 and A102 makes reference to “entry by AIPHONE”. Is AIPHONE equipment to be provided? If so, by whom?

**There is no reference to AIPHONE at Door A101. The APhone referenced in the hardware specification at door A102 was generic. Please refer to Security drawings and specifications for Intercom to be installed at Door A102.**

### ITEM #82
Doors A106, A128, A110a, A134b, A139, A143a, A140, and A141 on Door HW schedule references lock equipped with REX switch, but REX PIR shown on SC101.

**Door details are shown for design intent only. Follow Div. 8 Schedule.**

### ITEM #83
Section 281300, 2.2, 1, a; Is a new server to be provided? If so, what are the specifications? Where is it to be located?

**Yes. Size per manufacturer recommendations. Locate servers in B172.**

### ITEM #84
Section 281300, 2.2, 1, b; Are any workstations to be provided? If so, how many and at what locations?

**There are workstations required for the main operations console.**

### ITEM #85
Section 281300; Are any new access credentials to be provided? None are specified.

**Yes. Provide 100 HID Corporate 1000 Smart Cards with Prox. Model: 510x-Corp. Provide a badge printer in the operations area. Model: HID® FARGO® DTC1500 ID Card Printer & Encoder. Provide sufficient supplies to print & encode 100 cards. Contractor will provide all printing and encoding for up to 50 personnel.**

### ITEM #86
Section 280500.01, 1.2, C; This section references a photo badging system, but nothing is specified.

**Yes. Provide 100 HID Corporate 1000 Smart Cards with Prox. Model: 510x-Corp. Provide a badge printer in the operations area. Model: HID® FARGO® DTC1500 ID Card Printer & Encoder. Provide sufficient supplies to print & encode 100 cards. Contractor will provide all printing and encoding for up to 50 personnel.**

### ITEM #87
Section 280500.01, 1.3, D, 5; This references Div. 23 to interface with security access-control reporting system, but nothing is specified in Div. 23 for this or in section 281300. Is this required? If so, need detailed explanation of integration requirements.

**No. Disregard 280500.01, 1.3, D, 5**

### ITEM #88
Section 280500.01, 1.21, B, 1; Are tamper switches required? If so, for what? What is “Gallery I-8”?

**Yes. Gallery refers to panels outside the closets. Disregard Gallery I-8.**

### ITEM #89
Section 280500.01, 4.4; Different sections describe different number of required days of training. Please clarify number of days of training required and expected number of students.

**Refer to Section 280500.01 4.4 for training requirements.**

### ITEM #90
RFI #01

Design of Structural glazed tile at base of CMU walls unclear. Elgin Butler doesn’t make an 8” structural glazed tile. Is the intent to have a 4” structural glazed tile on one side, a 4” CMU on the other side and have any vertical reinforcing run between them?

**Refer to details 25, 26, 27 & 28 on sheet A802.**
ITEM #91: RFI #02
Does the following information from the MASONRY WALL SCHEDULE only apply to MW-1 that are 20’ and taller? Or is it suppose to apply to all masonry wall?
"PROVIDE (2) #5 AT JAMB OR OPENING AND ENDS. DOWEL INTO FOOTING. EXTEND REINFORCEMENT INTO MASONRY LINTEL. LAP WALL REINFORCEMENT WITH STUDS WELDED TO TOP OF STEEL LINTELS. #5 BAR AT CENTER OF CMU. ALL MASONRY WALLS TO BE SOLID GROUT"
Applies to all masonry walls.

ITEM #92: RFI #03
Is there a spec section coming out for the rigid insulation in the masonry cavity walls?
Specification Section 072100 will be issued as part of the Addendum No. 6

ITEM #93: RFI #04
Will an additional #4 rebar need to be placed in CMU cells that will already contain a #5 rebar, for structural reinforcing, to comply with the security wall legend on page A011? Or will the #5 rebar be sufficient?
No. Additional #4 rebar is not required where cells already contain #5 rebar.

ITEM #94: RFI #05
Will an additional #4 rebar need to be placed in CMU cells that will already contain a #5 rebar, for structural reinforcing, to comply with the security wall legend on page A011? Or will the #5 rebar be sufficient?
No. Additional #4 rebar is not required where cells already contain #5 rebar.

ITEM #95: The AISC, AWI, Ceramic Tile Education and AABA certification is required will eliminate a lot of well qualified bidders from quoting this project. The cost of these certification programs both in terms of time and money is something that many firms have chosen not to take on. Finding AISC erectors willing to bid this relatively simple steel install may not even be feasible. This certification requirement coupled with the prevailing wages will severely limit subcontractor participation in these trades at best, and possibly eliminate any bids at all.
The goal of listing certification requirement is to provide the best quality of workmanship recognized through industry standards for the project. If bidders find it difficult to find contractors that maintain these certifications, it will be the responsibility of the bidder to submit documentation indicating that similar experience and qualification levels that meet the standards of the certification.

Pre-Bid Video Conference Questions with Responses:
ITEM #95: Video Security will be submitted to the GC or to County?
General Contractor.

ITEM #96: What is the intended construction start date?
The County intends to award project by August 31, 2020, then ASAP.

ITEM #97: Will the "Current" outdoor area be closed while construction is ongoing?
The existing GVRC facility will still have outdoor activities.
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<td>#98</td>
<td>Several spec sections seem to dictate scope delineation. ie. SEC / DEC / Electrical. Fair to assume that the GC will be allowed to dictate means and methods? <strong>Means and methods is contractor responsibility but refer to specification and touch base with us.</strong></td>
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<tr>
<td>#99</td>
<td>Will voluntary alternates be accepted for BMS/DDC installers? <strong>No, The County currently utilizes Johnson Controls and would like to continue to utilize them since other County building use them.</strong></td>
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<tr>
<td>#100</td>
<td>Would alternate fire alarm manufacturers be allowed? Gamewell-FCI specifically? <strong>The project will stick with what is listed in the Specifications.</strong></td>
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<td>#101</td>
<td>Will there be a list of General Contractors issued? <strong>Addendum 6 will include an attendance sheet for this is a mandatory meeting.</strong></td>
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<tr>
<td>#102</td>
<td>Is it possible to physically visit the site? <strong>Yes, now that the Governor’s Executive Order has been revised for construction activities, Addendum No. 6 determine date.</strong></td>
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<tr>
<td>#103</td>
<td>Is the bid bond, performance bond and other bonds required for the video security portion? <strong>Refer to County Addendum No. 6 ITB Summary</strong></td>
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<td>#104</td>
<td>Procurement-Not just the Bid Bond amount in the electronic Copy, but the actual bid amount as well. <strong>Refer to County Addendum No. 6 ITB Summary</strong></td>
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<tr>
<td>#105</td>
<td>Are there portions of divisions 27 and or 28 that are owner supplied or is 26,27, 28 all intended to be 100% by electrical thru the gc? <strong>By electrical - RFI if specific questions</strong></td>
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<tr>
<td>#106</td>
<td>Will attendees who are identified by phone only be an acceptable bidder? If so, how will they be identified (named) in the forthcoming addendum #6? <strong>All bidders were required to preregister for this Mandatory Meeting. If we have their information, they will be listed on the Attendance Sheet.</strong></td>
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<tr>
<td>#107</td>
<td>Can Metro Controls Inc an authorized JCI Tridium BMS/DDC installers be added to the installers approval list? Or accepted as an alternate? <strong>If the substitution request was not submitted by the 4-3-20 deadline, the request will need to be submitted to the GC for consideration as voluntary alternate.</strong></td>
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<tr>
<td>#108</td>
<td>It will not be possible to post the bid amount ($) in the electronic copy because the bid amount is not finalized until the closing moments before the 3pm deadline. All other backup documentation could be completed and submitted electronically. <strong>That is fine. Make a copy of bid doc to be included. This will be further addressed in Addendum No. 6.</strong></td>
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<tr>
<td>#109</td>
<td>If voluntary alternates are being accepted, will they be used in determining the low bid? <strong>No, Voluntary Alternates will be considered only after the project has been awarded.</strong></td>
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**END OF ADDENDUM #06**
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BUILDING INSULATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings And General Provisions of Contract, including General and Supplementary Conditions and Division 1 Specification sections, apply to work of this section.

1.2 DESCRIPTION OF WORK:

A. Extent of Insulation Work is shown on drawings and indicated by provisions of this section.

B. Applications of Insulation Specified in this section include the following:
   1. Board-type building insulation.
   2. Blanket-type building insulation.
   3. Safing insulation.

C. Related Sections: The following Sections contain requirements that relate to this section:
   1. Division 04 Section “Unit Masonry ” for polystyrene board insulation installed in cavity walls and masonry cells.
   2. Division 09 Section indicated below for sound attenuation insulation installed as part of metal-framed wall and partition assemblies:
      a. “Gypsum Board Assemblies.”

QUALITY ASSURANCE:

A. Thermal Resistivity: Where thermal resistivity properties of insulation materials are designated by r-values they represent the rate of heat flow through a homogeneous material exactly 1” thick, measured by test method included in referenced material standard or otherwise indicated. They are expressed by the temperature difference in degrees F between two exposed faces required to cause one BTU to flow through one square foot per hour at mean temperatures indicated.

B. Fire Performance characteristics: Provide insulation materials which are identical to those whose fire performance characteristics, as listed for each material or assembly of which insulation is a part, have been determined by testing, per methods indicated below, by UL or other testing and inspecting agency acceptable to authorities having jurisdiction.

C. Maximum Allowable Asbestos Content Of Inorganic Insulations: Provide insulations composed of mineral fibers or mineral cores which contain less than 0.25% by weight of asbestos of any type or mixture of types occurring naturally as impurities as determined by polarized light microscopy test per Appendix A of 40 CFR 763.
1.3 ACTION SUBMITTALS
A. Product Data: For each type of product indicated.

1.4 TEST REPORTS
A. Submit evaluation reports or other independent testing agency reports showing compliance with specified performance characteristics and physical properties.
B. Submit letter verifying insulation installer’s experience with work similar to work of this section.

1.5 DELIVERY, STORAGE, AND HANDLING:
A. General Protection: Protect insulations from physical damage and from becoming wet, soiled, or covered with ice or snow. Comply with manufacturer’s recommendations for handling, storage and protection during installation.
B. Protection for Plastic Insulation:
   1. Do not expose to sunlight, except to extent necessary for period of installation and concealment.
   2. Protect against ignition at all times. Do not deliver plastic insulating materials to project site ahead of installation time.
   3. Complete installation and concealment of plastic materials as rapidly as possible in each area of work.

PART 2 – PRODUCTS

2.1 FOAM-PLASTIC BOARD INSULATION
A. Extruded-Polystyrene Board Insulation: ASTM C 578, of type and minimum compressive strength indicated below, with maximum flame-spread and smoke-developed indexes of 75 and 450, respectively, per ASTM E 84.
   1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
      a. DiversiFoam Products.
      b. Dow Chemical Company (The).
      c. Owens Corning.
      d. Pactiv Building Products.
   2. Type IV, 25 psi (173 kPa).
B. Adhesive for Bonding Insulation: Product with demonstrated capability to bond insulation securely to substrates without damaging insulation and substrates.
2.2 MINERAL-WOOL BOARD INSULATION

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Fibrex Insulations Inc.
2. Isolatek International.
3. Owens Corning.
4. Roxul Inc.
5. Thermafiber.

B. Unfaced, Mineral-Wool Board Insulation: ASTM C 612; with maximum flame-spread and smoke-developed indexes of 15 and zero, respectively, per ASTM E 84; passing ASTM E 136 for combustion characteristics.

1. Nominal density of 4 lb/cu. ft. (64 kg/cu. m), Types IA and IB, thermal resistivity of 4 deg F x h x sq. ft./Btu x in. at 75 deg F (27.7 K x m/W at 24 deg C).
2. Fiber Color: Darkened, where indicated.

2.3 GLASS-FIBER BLANKET INSULATION

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. CertainTeed Corporation.
2. Guardian Building Products, Inc.
5. Owens Corning.

B. Unfaced, Glass-Fiber Blanket Insulation: ASTM C 665, Type I; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively, per ASTM E 84; passing ASTM E 136 for combustion characteristics.

2.4 AUXILIARY INSULATING MATERIALS:

A. Polyethylene Vapor Retarder: ASTM D 4397, 6-mil polyethylene film, with laboratory-tested vapor transmission rating of a maximum of 0.13 perms, natural color.

B. Adhesive for Bonding Insulation: Type recommended by insulation manufacturer, and complying with requirements for fire performance characteristics.

C. Mechanical Anchors: Type and size indicated or, if not indicated as recommended by insulation manufacturer for type of application and condition of substrate.

D. Mastic Sealer: Type recommended by insulation manufacturer for bonding edge joints between units and filling voids in work.

PART 3 - EXECUTION

3.1 PREPARATION

A. Clean substrates of substances that are harmful to insulation or vapor retarders, including removing projections capable of puncturing vapor retarders, or that interfere with insulation attachment.
3.2 INSTALLATION, GENERAL

A. Comply with insulation manufacturer's written instructions applicable to products and applications indicated.

B. Install insulation that is undamaged, dry, and unsoiled and that has not been left exposed to ice, rain, or snow at any time.

C. Extend insulation to envelop entire area to be insulated. Cut and fit tightly around obstructions and fill voids with insulation. Remove projections that interfere with placement.

D. Provide sizes to fit applications indicated and selected from manufacturer's standard thicknesses, widths, and lengths. Apply single layer of insulation units to produce thickness indicated unless multiple layers are otherwise shown or required to make up total thickness.

3.3 INSTALLATION OF BELOW-GRADE INSULATION

A. On vertical surfaces, set insulation units using manufacturer's recommended adhesive according to manufacturer's written instructions.

B. On horizontal surfaces, loosely lay insulation units according to manufacturer's written instructions. Stagger end joints and tightly abut insulation units.

3.4 INSTALLATION OF INSULATION FOR FRAMED CONSTRUCTION

A. Apply insulation units to substrates by method indicated, complying with manufacturer's written instructions. If no specific method is indicated, bond units to substrate with adhesive or use mechanical anchorage to provide permanent placement and support of units.

B. Glass-Fiber or Mineral-Wool Blanket Insulation: Install in cavities formed by framing members according to the following requirements:

1. Use insulation widths and lengths that fill the cavities formed by framing members. If more than one length is required to fill the cavities, provide lengths that will produce a snug fit between ends.

2. Place insulation in cavities formed by framing members to produce a friction fit between edges of insulation and adjoining framing members.

3. Maintain 3-inch (76-mm) clearance of insulation around recessed lighting fixtures not rated for or protected from contact with insulation.

4. For metal-framed wall cavities where cavity heights exceed 96 inches (2438 mm), support unfaced blankets mechanically and support faced blankets by taping flanges of insulation to flanges of metal studs.

3.5 INSTALLATION OF VAPOR RETARDERS

A. Place vapor retarders on side of construction indicated on Drawings. Extend vapor retarders to extremities of areas to protect from vapor transmission. Secure vapor retarders in place with adhesives or other anchorage system as indicated. Extend vapor retarders to cover miscellaneous voids in insulated substrates.

B. Seal joints caused by pipes, conduits, electrical boxes, and similar items penetrating vapor retarders with vapor-retarder tape to create an airtight seal between penetrating objects and vapor retarders.
C. Repair tears or punctures in vapor retarders immediately before concealment by other work. Cover with vapor-retarder tape or another layer of vapor retarders.

3.6 PROTECTION

A. Protect installed insulation and vapor retarders from damage due to harmful weather exposures, physical abuse, and other causes. Provide temporary coverings or enclosures where insulation is subject to abuse and cannot be concealed and protected by permanent construction immediately after installation.

**END OF SECTION**
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. Formed wall sheet metal fabrications.
      2. Formed equipment support flashing.
   B. Related Requirements:
      1. Section 061053 "Rough Carpentry" for wood nailers, curbs, and blocking.
      2. Section "042000" for masonry installation of manufactured sheet metal through-wall
         flashing and trim integral with masonry.
      3. Section "074213.13 " for sheet metal flashing and trim integral with metal wall panels.
      4. Section 077100 "Roof Specialties" for manufactured copings, roof-edge specialties, roof-
         edge drainage systems, reglets, and counterflashings.

1.3 COORDINATION
   A. Coordinate sheet metal flashing and trim layout and seams with sizes and locations of
      penetrations to be flashed, and joints and seams in adjacent materials.
   B. Coordinate sheet metal flashing and trim installation with adjoining roofing and wall materials,
      joints, and seams to provide leakproof, secure, and noncorrosive installation.

1.4 PREINSTALLATION MEETINGS
   A. Preinstallation Conference: Conduct conference at Project site.
      1. Review construction schedule. Verify availability of materials, Installer's personnel,
         equipment, and facilities needed to make progress and avoid delays.
      2. Review special roof details, roof drainage, roof-penetration flashing, equipment curbs,
         and condition of other construction that affect sheet metal flashing and trim.
      3. Review requirements for insurance and certificates if applicable.
      4. Review sheet metal flashing observation and repair procedures after flashing installation.
1.5 ACTION SUBMITTALS

A. Product Data: For each of the following
   1. Underlayment materials.
   2. Elastomeric sealant.
   3. Butyl sealant.
   4. Epoxy seam sealer.

B. Shop Drawings: For sheet metal flashing and trim.
   1. Include plans, elevations, sections, and attachment details.
   2. Detail fabrication and installation layouts, expansion-joint locations, and keyed details. Distinguish between shop- and field-assembled Work.
   3. Include identification of material, thickness, weight, and finish for each item and location in Project.
   4. Include details for forming, including profiles, shapes, seams, and dimensions.
   5. Include details for joining, supporting, and securing, including layout and spacing of fasteners, cleats, clips, and other attachments. Include pattern of seams.
   6. Include details of termination points and assemblies.
   7. Include details of expansion joints and expansion-joint covers, including showing direction of expansion and contraction from fixed points.
   8. Include details of roof-penetration flashing.
   9. Include details of edge conditions, including eaves, ridges, valleys, rakes, crickets, flashings, and counterflashings.
   10. Include details of special conditions.
   11. Include details of connections to adjoining work.

C. Samples: For each exposed product and for each color and texture specified, 12 inches (300 mm) long by actual width.

D. Samples for Initial Selection: For each type of sheet metal and accessory indicated with factory-applied finishes.

E. Samples for Verification: For each type of exposed finish.
   1. Sheet Metal Flashing: 12 inches (300 mm) long by actual width of unit, including finished seam and in required profile. Include fasteners, cleats, clips, closures, and other attachments.
   2. Trim, Metal Closures, Expansion Joints, Joint Intersections, and Miscellaneous Fabrications: 12 inches (300 mm) long and in required profile. Include fasteners and other exposed accessories.
   3. Unit-Type Accessories and Miscellaneous Materials: Full-size Sample.

1.6 INFORMATIONAL SUBMITTALS

A. Qualification Data: For fabricator.

B. Product Test Reports: For each product, for tests performed by a qualified testing agency.
C. Sample Warranty: For special warranty.

1.7 CLOSEOUT SUBMITTALS

A. Maintenance Data: For sheet metal flashing and trim, and its accessories, to include in maintenance manuals.

B. Special warranty.

1.8 QUALITY ASSURANCE

A. Fabricator Qualifications: Employs skilled workers who custom fabricate sheet metal flashing and trim similar to that required for this Project and whose products have a record of successful in-service performance.

B. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for fabrication and installation.
   1. Build mockup of typical through wall flashing, with masonry mockup, and accessories.
   2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Owner specifically approves such deviations in writing.
   3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Do not store sheet metal flashing and trim materials in contact with other materials that might cause staining, denting, or other surface damage.
   1. Store sheet metal flashing and trim materials away from uncured concrete and masonry.
   2. Protect stored sheet metal flashing and trim from contact with water.

B. Protect strippable protective covering on sheet metal flashing and trim from exposure to sunlight and high humidity, except to extent necessary for period of sheet metal flashing and trim installation.

1.10 WARRANTY

A. Special Warranty on Finishes: Manufacturer agrees to repair finish or replace sheet metal flashing and trim that shows evidence of deterioration of factory-applied finishes within specified warranty period.
   1. Exposed Panel Finish: Deterioration includes, but is not limited to, the following:
      a. Color fading more than 5 Delta units when tested in accordance with ASTM D2244.

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SHEET METAL FLASHING AND TRIM
b. Chalking in excess of a No. 8 rating when tested in accordance with ASTM D4214.
c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.

2. Finish Warranty Period: For the life of the wall to begin from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. General: Sheet metal flashing and trim assemblies, including cleats, anchors, and fasteners, shall withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Completed sheet metal flashing and trim shall not rattle, leak, or loosen, and shall remain watertight.

B. Sheet Metal Standard for Flashing and Trim: Comply with SMACNA's "Architectural Sheet Metal Manual" requirements for dimensions and profiles shown unless more stringent requirements are indicated.

C. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes to prevent buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.

1. Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.

2.2 SHEET METALS

A. General: Protect mechanical and other finishes on exposed surfaces from damage by applying strippable, temporary protective film before shipping.

Products of manufacturers listed below meeting indicated standards and specified manufacturer's product data characteristics, except as modified below, are acceptable for use, subject to compliance with specified requirements.

a. Product standard of quality:
   a. York Manufacturing, Inc.; York 304 SS
   b. Illinois Products, Inc.; IPCO Self-Adhesive Stainless Steel
   c. STS Coatings, Inc.; Wall Guardian Self Adhering Stainless Steel Flashing
   d. TK Products, Inc.; TK Self-Adhering Stainless Steel TWF
   e. Vapro Shield, Inc.; VaproThru-Wall Flashing SA
   f. Other products that meet the criteria in section 1.04 to 1.06.

1. Characteristics:
   a. Type: stainless steel core with one uncoated (bare) stainless steel face (outward facing) with a butyl block co-polymer adhesive (inward facing).
   c. Adhesive: block co-polymer
   d. Size: Manufacturer's standard width rolls.
B. Accessories:
   1. Polyether sealant:
      1) York Manufacturing, Inc.; UniverSeal US-100
      2) STS Coatings; GreatSeal LT-100
      3) Prosoco, Inc.; R-Guard Joint Seam Sealer
   2. Splice Tape:
      1) York Manufacturing, Inc.; York 304 SS
      2) Illinois Products, Inc.; IPCO Self Adhering Stainless Steel Flashing
   3. Corner and End Dams: form the stainless steel flashing in the field or use 26 gauge stainless steel pre-manufactured corners.
   4. Mortar deflection: polyester strands that will not degrade and will keep weep vents from clogging with mortar.
      1) York Manufacturing; Weep-Armor
      2) Or approved comparable product
   5. Termination bar: rigid PVC or stainless steel termination bar with sealant catch lip
      1) York Manufacturing; T-96 termination bar
      2) York Manufacturing; SS Term Bar

PART 3 - EXECUTION

3.1 GENERAL

A. Install where indicated, specified, or required in accord with flashing manufacturer's written instructions and as follows.

B. Extend flashing 6" minimum beyond opening. Fold flashing ends at end of openings or horizontal flashing terminations to form end dam or use pre-manufactured units made of 26 gauge stainless steel.

C. Flashing width: Width required starting flush with outside face of exterior wythe, extending through cavity, rising height required to extend above lintel steel at least 2".

D. Splice end joints by overlapping them a minimum of 2” and seal with a compatible sealant or metal splice tape.

E. Masonry back up:
   1. Surface apply after dampproofing installation specified in Damp proofing/Air Barrier Section in accord with manufacturer’s installation instructions.
   2. Fasten to masonry back-up surface at top by embedding in layer of sealant or use a non-corrosive termination bar and fasten it to the backer wall at the top edge of the flashing and seal the top edge with compatible sealant or use a termination clamp, which is embedded in the block back up wall.

F. Concrete back up:
   1. Surface apply after damp proofing/air barrier installation specified in damp proofing Section in accord with manufacturer’s installation instructions.
   2. Fasten to concrete surface at top by embedding in layer of sealant or use a non-corrosive termination bar and fasten it to the backer wall at the top edge of the flashing and seal the top edge with a compatible sealant.
G. Stud back up with sheathing:

1. Fasten to stud back-up at top by embedding in layer of sealant or use a non-corrosive termination bar and fasten it to the backer wall at the top edge of the flashing and seal the top edge with a compatible sealant.

H. Leave ready for certified compatible building felt or air barrier installation lapping flashing top installed in another Section.

I. Fold ends of flashing at end of opening to form dam; seal with polyether sealant or use purchased manufacturers preformed end dams.

J. Inside and outside corners: Make in industry accepted manner using corner and splice material or purchase manufactured corners from manufacturer.

K. Use stainless steel or copper drip edge any location that the underside of the flashing will be exposed and/or deemed necessary by the design professional or AHJ on the project.

L. Cover flashing within a few days of installation to protect it from damage from the different trades, the environment and falling debris. If flashing is left unprotected and it is punctured, torn, or has loose scrim you should contact the manufacturer for repair instructions.

END OF SECTION 07 62 00
SECTION 07 71 00 - ROOF SPECIALTIES

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. Copings.
   2. Roof-edge drainage systems.
   3. Reglets and counterflashings.

B. Related Requirements:
   1. Section 06 10 53 "Rough Carpentry" for wood nailers, curbs, and blocking.
   2. Section 07 41 13.13 "Preformed Metal Roof Panels" for roof-edge drainage-system components provided by metal-roof-panel manufacturer.
   3. Section 07 62 00 "Sheet Metal Flashing and Trim" for custom- and site-fabricated sheet metal flashing and trim.
   4. Section 07 72 00 "Roof Accessories" for set-on-type curbs, equipment supports, roof hatches, vents, and other manufactured roof accessory units.
   5. Section 07 92 13 "Joint Sealants" for field-applied sealants between roof specialties and adjacent materials.

C. Preinstallation Conference: Conduct conference at Project site.
   1. Meet with Owner, Architect, Owner's insurer if applicable, roofing-system testing and inspecting agency representative, roofing Installer, roofing-system manufacturer's representative, Installer, structural-support Installer, and installers whose work interfaces with or affects roof specialties, including installers of roofing materials and accessories.
   2. Examine substrate conditions for compliance with requirements, including flatness and attachment to structural members.
   3. Review special roof details, roof drainage, and condition of other construction that will affect roof specialties.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.
   1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
B. Shop Drawings: For roof specialties.
1. Include plans, elevations, expansion-joint locations, keyed details, and attachments to other work. Distinguish between plant- and field-assembled work.
2. Include details for expansion and contraction; locations of expansion joints, including direction of expansion and contraction.
3. Indicate profile and pattern of seams and layout of fasteners, cleats, clips, and other attachments.
4. Detail termination points and assemblies, including fixed points.
5. Include details of special conditions.

C. Samples: For each type of roof specialty and for each color and texture specified.

D. Samples for Initial Selection: For each type of roof specialty indicated with factory-applied color finishes.

E. Samples for Verification:
1. Include Samples of each type of roof specialty to verify finish and color selection, in manufacturer's standard sizes.
2. Include copings roof-edge specialties roof-edge drainage systems reglets and counterflashings made from 12-inch (300-mm) lengths of full-size components in specified material, and including fasteners, cover joints, accessories, and attachments.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For manufacturer.

B. Product Certificates: For each type of roof specialty.

C. Product Test Reports: For copings and roof-edge flashings, for tests performed by a qualified testing agency.

D. Sample Warranty: For manufacturer's special warranty.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For roofing specialties to include in maintenance manuals.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications: A qualified manufacturer offering products meeting requirements that are FM Approvals listed for specified class and SPRI ES-1 tested to specified design pressure.

B. Source Limitations: Obtain roof specialties approved by manufacturer providing roofing-system warranty specified in Section 07 54 19.
1.7 DELIVERY, STORAGE, AND HANDLING

A. Do not store roof specialties in contact with other materials that might cause staining, denting, or other surface damage. Store roof specialties away from uncured concrete and masonry.

B. Protect strippable protective covering on roof specialties from exposure to sunlight and high humidity, except to extent necessary for the period of roof-specialty installation.

1.8 FIELD CONDITIONS

A. Field Measurements: Verify profiles and tolerances of roof-specialty substrates by field measurements before fabrication and indicate measurements on Shop Drawings.

B. Coordination: Coordinate roof specialties with flashing, trim, and construction of parapets, roof deck, roof and wall panels, and other adjoining work to provide a leakproof, secure, and noncorrosive installation.

1.9 WARRANTY

A. Roofing-System Warranty: Roof specialties are included in warranty provisions in Section 07 54 19 "Polyvinyl-Chloride (PVC/KEE) Roofing."

B. Special Warranty on Painted Finishes: Manufacturer agrees to repair finish or replace roof specialties that show evidence of deterioration of factory-applied finishes within specified warranty period.

1. Fluoropolymer Finish: Deterioration includes, but is not limited to, the following:
   a. Color fading more than 5 Hunter units when tested according to ASTM D2244.
   b. Chalking in excess of a No. 8 rating when tested according to ASTM D4214.
   c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.

2. Finish Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. General Performance: Roof specialties shall withstand exposure to weather and resist thermally induced movement without failure, rattling, leaking, or fastener disengagement due to defective manufacture, fabrication, installation, or other defects in construction.

B. FM Approvals' Listing: Manufacture and install copings that are listed in FM Approvals' "RoofNav" and approved for windstorm classification, Class 1-120. Identify materials with FM Approvals' markings.

C. SPRI Wind Design Standard: Manufacture and install copings tested according to SPRI ES-1 and capable of resisting the following design pressures:
1. Design Pressure: As indicated on Drawings.

D. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes to prevent buckling, opening of joints, hole elongation, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Provide clips that resist rotation and avoid shear stress as a result of thermal movements. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.

1. Temperature Change (Range): 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.

2.2 COPINGS

A. Metal Copings: Manufactured coping system consisting of metal coping cap in section lengths not exceeding 12 feet (3.6 m), concealed anchorage; with corner units, end cap units, and concealed splice plates with finish matching coping caps.

1. Basis-of-Design Product: Subject to compliance with requirements, provide ATAS International, Inc; Continuous Cleat Coping or a comparable product by one of the following:
   b. ATAS International, Inc;

2. Metallic-Coated Steel Sheet Coping Caps: Zinc-coated (galvanized) steel, 22 gauge.
   a. Surface: Smooth, flat finish.
   b. Finish: Two-coat fluoropolymer.
   c. Color: As selected by Architect from manufacturer's full range. Intent is to match metal panel color.

4. Coping-Cap Attachment Method: Snap-on, fabricated from coping-cap material.
   a. Snap-on Coping Anchor Plates: Concealed, galvanized-steel sheet, 12 inches (300 mm) wide, with integral cleats.
   b. Face-Leg Cleats: Concealed, continuous galvanized-steel sheet.

2.3 REGLETS AND COUNTERFLASHINGS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

2. Drexel Metals.
3. Heckmann Building Products, Inc.

B. Reglets: Manufactured units formed to provide secure interlocking of separate reglet and counterflashings pieces, from the following exposed metal:
1. Zinc-Coated Steel: Nominal 0.022-inch (0.56-mm) thickness.
2. Corners: Factory mitered and soldered.
3. Surface-Mounted Type: Provide reglets with slotted holes for fastening to substrate, with neoprene or other suitable weatherproofing washers, and with channel for sealant at top edge.
4. Stucco Type, Embedded: Provide reglets with upturned fastening flange and extension leg of length to match thickness of applied finish materials.
5. Concrete Type, Embedded: Provide temporary closure tape to keep reglet free of concrete materials, special fasteners for attaching reglet to concrete forms, and guides to ensure alignment of reglet section ends.
6. Masonry Type, Embedded: Provide reglets with offset top flange for embedment in masonry mortar joint.
7. Multiuse Type, Embedded: For multiuse embedment in masonry mortar joints.

C. Counterflashings: Manufactured units of heights to overlap top edges of base flashings by 4 inches (100 mm) and in lengths not exceeding 12 feet (3.6 m) designed to snap into reglets and compress against base flashings with joints lapped, from the following exposed metal:

1. Zinc-Coated Steel: Nominal 0.022-inch (0.56-mm) thickness.

D. Accessories:

1. Flexible-Flashing Retainer: Provide resilient plastic or rubber accessory to secure flexible flashing in reglet where clearance does not permit use of standard metal counterflashing or where reglet is provided separate from metal counterflashing.
2. Counterflashing Wind-Restraint Clips: Provide clips to be installed before counterflashing to prevent wind uplift of counterflashing lower edge.

E. Zinc-Coated Steel Finish: Two-coat fluoropolymer.

1. Color: As selected by Architect from manufacturer's full range.

2.4 MATERIALS

A. Zinc-Coated (Galvanized) Steel Sheet: ASTM A653/A653M, G90 (Z275) coating designation.

2.5 MISCELLANEOUS MATERIALS

A. Fasteners: Manufacturer's recommended fasteners, suitable for application and designed to meet performance requirements. Furnish the following unless otherwise indicated:

1. Exposed Penetrating Fasteners: Gasketed screws with hex washer heads matching color of sheet metal.
2. Fasteners for Copper Sheet: Copper, hardware bronze, or passivated Series 300 stainless steel.
3. Fasteners for Aluminum: Aluminum or Series 300 stainless steel.
4. Fasteners for Stainless-Steel Sheet: Series 300 stainless steel.
5. Fasteners for Zinc-Coated (Galvanized) Steel Sheet: Series 300 stainless steel or hot-dip zinc-coated steel according to ASTM A153/A153M or ASTM F2329.
B. Elastomeric Sealant: ASTM C920, elastomeric silicone polymer sealant of type, grade, class, and use classifications required by roofing-specialty manufacturer for each application.

C. Butyl Sealant: ASTM C1311, single-component, solvent-release butyl rubber sealant; polyisobutylene plasticized; heavy bodied for hooked-type joints with limited movement.

D. Bituminous Coating: Cold-applied asphalt emulsion complying with ASTM D1187/D1187M.


2.6 FINISHES

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Protect mechanical and painted finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

C. Appearance of Finished Work: Noticeable variations in same piece are unacceptable. 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.

D. Coil-Coated Galvanized-Steel Sheet Finishes:
   1. High-Performance Organic Finish: Prepare, pretreat, and apply coating to exposed metal surfaces to comply with ASTM A755/A755M and coating and resin manufacturers' written instructions.
      a. Two-Coat Fluoropolymer: AAMA 621. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
      b. Three-Coat Fluoropolymer: AAMA 621. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in both color coat and clear topcoat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
      c. Two-Coat Mica Fluoropolymer: AAMA 621. Fluoropolymer finish with suspended mica flakes containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
      d. Three-Coat Metallic Fluoropolymer: AAMA 621. Fluoropolymer finish with suspended metallic flakes containing not less than 70 percent PVDF resin by weight in both color coat and clear topcoat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
      e. Concealed Surface Finish: Apply pretreatment and manufacturer's standard acrylic or polyester backer finish consisting of prime coat and wash coat with a minimum total dry film thickness of 0.5 mil (0.013 mm).
PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, to verify actual locations, dimensions, and other conditions affecting performance of the Work.

B. Examine walls, roof edges, and parapets for suitable conditions for roof specialties.

C. Verify that substrate is sound, dry, smooth, clean, sloped for drainage where applicable, and securely anchored.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

A. General: Install roof specialties according to manufacturer's written instructions. Anchor roof specialties securely in place, with provisions for thermal and structural movement. Use fasteners, solder, protective coatings, separators, underlayments, sealants, and other miscellaneous items as required to complete roof-specialty systems.

1. Install roof specialties level, plumb, true to line and elevation; with limited oil-canning and without warping, jogs in alignment, buckling, or tool marks.
2. Provide uniform, neat seams with minimum exposure of solder and sealant.
3. Install roof specialties to fit substrates and to result in weathertight performance. Verify shapes and dimensions of surfaces to be covered before manufacture.
4. Torch cutting of roof specialties is not permitted.
5. Do not use graphite pencils to mark metal surfaces.

B. Metal Protection: Protect metals against galvanic action by separating dissimilar metals from contact with each other or with corrosive substrates by painting contact surfaces with bituminous coating or by other permanent separation as recommended by manufacturer.

1. Coat concealed side of uncoated aluminum and stainless-steel roof specialties with bituminous coating where in contact with wood, ferrous metal, or cementitious construction.
2. Bed flanges in thick coat of asphalt roofing cement where required by manufacturers of roof specialties for waterproof performance.


1. Space movement joints at a maximum of 12 feet (3.6 m) with no joints within 18 inches (450 mm) of corners or intersections unless otherwise indicated on Drawings.
2. When ambient temperature at time of installation is between 40 and 70 deg F (4 and 21 deg C), set joint members for 50 percent movement each way. Adjust setting proportionately for installation at higher ambient temperatures.

D. Fastener Sizes: Use fasteners of sizes that penetrate wood blocking or sheathing not less than 1-1/4 inches (32 mm) for nails and not less than 3/4 inch (19 mm) for wood screws.
E. Seal concealed joints with butyl sealant as required by roofing-specialty manufacturer.

F. Seal joints as required for weathertight construction. Place sealant to be completely concealed in joint. Do not install sealants at temperatures below 40 deg F (4 deg C).

G. Soldered Joints: Clean surfaces to be soldered, removing oils and foreign matter. Pre-tin edges of sheets to be soldered to a width of 1-1/2 inches (38 mm); however, reduce pre-tinning where pre-tinned surface would show in completed Work. Tin edges of uncoated copper sheets using solder for copper. Do not use torches for soldering. Heat surfaces to receive solder and flow solder into joint. Fill joint completely. Completely remove flux and spatter from exposed surfaces.

3.3 COPING INSTALLATION

A. Install cleats, anchor plates, and other anchoring and attachment accessories and devices with concealed fasteners.

B. Anchor copings with manufacturer's required devices, fasteners, and fastener spacing to meet performance requirements.

3.4 REGLET AND COUNTERFLASHING INSTALLATION

A. General: Coordinate installation of reglets and counterflashings with installation of base flashings.

B. Embedded Reglets: See Section 04 20 00 "Unit Masonry" for installation of reglets.

C. Surface-Mounted Reglets: Install reglets to receive flashings where flashing without embedded reglets is indicated on Drawings. Install at height so that inserted counterflashings overlap 4 inches (100 mm) over top edge of base flashings.

D. Counterflashings: Insert counterflashings into reglets or other indicated receivers; ensure that counterflashings overlap 4 inches (100 mm) over top edge of base flashings. Lap counterflashings joints a minimum of 4 inches (100 mm) and bed with butyl sealant. Fit counterflashings tightly to base flashings.

3.5 CLEANING AND PROTECTION

A. Clean exposed metal surfaces of substances that interfere with uniform oxidation and weathering.

B. Clean and neutralize flux materials. Clean off excess solder and sealants.

C. Remove temporary protective coverings and strippable films as roof specialties are installed. On completion of installation, clean finished surfaces, including removing unused fasteners, metal filings, pop rivet stems, and pieces of flashing. Maintain roof specialties in a clean condition during construction.
D. Replace roof specialties that have been damaged or that cannot be successfully repaired by finish touchup or similar minor repair procedures.

END OF SECTION 07 71 00
KEY NOTES:
1. DOOR CONTACT
2. CARD READER
3. BACKBOX
4. ELECTRIC LOCK
5. REQUEST TO EXIT (REX) PIR (SECURE SIDE)
6. 12" X 12" X 6" ENCLOSURE (SECURE SIDE)
7. 3/4" CONDUIT
8. EXIT DEVICE (SECURE SIDE) - NOT SHOWN

SINGLE DOOR WITH CARD READER WITH ELECTRIC STRIKE (LOGIC DIAGRAM)

SINGLE DOOR WITH CARD READER WITH MAGNETIC LOCK (LOGIC DIAGRAM)

SINGLE DOOR WITH CARD READER WITH ELECTRIC STRIKE (ELEVATION DETAIL WITH MOUNTING LOCATIONS)

SINGLE DOOR WITH CARD READER WITH MAGNETIC LOCK (ELEVATION DETAIL WITH MOUNTING LOCATIONS)

SECURED SIDE
UNSECURED SIDE

SINGLE DOOR WITH DOOR CONTACT (LOGIC DIAGRAM)

SINGLE INTERIOR SUITE DOOR WITH POE READER

SECURED SIDE
UNSECURED SIDE

SINGLE DOOR WITH DOOR CONTACT (ELEVATION DETAIL WITH MOUNTING LOCATIONS)

SECURED SIDE
UNSECURED SIDE

SINGLE INTERIOR SUITE DOOR WITH POE READER

SECURED SIDE
UNSECURED SIDE

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DESIGNER/DRAFTSPERSON
DATE
PROJECT NO.
SHEET NO.
SHEET TITLE
CONSULTANT
SECURITY DETAILS

SC500
Genesee County Juvenile Justice Center
BIDDING AND PERMITTING
02/26/2020
No.
Description
Date
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05/19/2020
5/8/2020 2:10:59 PM

Redstone Architects, Inc.
Fax:     248-418-0999
Phone: 248-418-0990
Bloomfield Hills, MI 48302-1008
2709 S. Telegraph Road
www.redstonearchitects.com
**DOOR SET 1**

- Double Door, W/ Mag Locks and ADA Operator
- 46" Double Door, W/ Mag Locks and ADA Operator
- Exit Hardware (Secure Side) - Not shown (Not required with Von Duprin).
- Exit Button Hardware (Secure Side) - Not shown.
- Exit Device (Logics Diagram) - Refer to Wiring Diagram.
- 3/4" Conduit to Cable Tray. To Controller.
- Finshed Ceiling.
- Led Strip Light.
- AAS Operator.
- 3/8" Exit conduit to cable conveyance.

**DOOR SET 2**

- Double Door, W/ Card Reader and ADA Operator
- 3/4" EMT Conduit to Cable Tray. To Controller.
- Secured Side.
- Unsecured Side.
- Front View.
- Elevation Detail with Mounting Locations.
- Diagram.
### Camera Schedule

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**Date:**
- 02/26/2020

**Description:**
- Genesee County Juvenile Justice Center

**Sheet Title:**
- Camera Schedule

**Sheet Number:**
- SC701

**Scale:**
- 3651.00
# Pre-Bid Video Conference Attendance

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<td>Peggy Matta</td>
<td>Redstone</td>
<td><a href="mailto:pMatt@redstonearchitects.com">pMatt@redstonearchitects.com</a></td>
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<tr>
<td>Tefera Kowalske</td>
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<td>Joel Galanty</td>
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<td>Daniel Redstone</td>
<td>Redstone</td>
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<tr>
<td>Jim Miloch</td>
<td>Fishbeck</td>
<td>j <a href="mailto:Miloch@fishbeck.com">Miloch@fishbeck.com</a></td>
</tr>
<tr>
<td>Rhonda Ihm</td>
<td>Genesee County</td>
<td><a href="mailto:rhm@co.genesee.mi.us">rhm@co.genesee.mi.us</a></td>
</tr>
<tr>
<td>Derrick Jones</td>
<td>Genesee County</td>
<td><a href="mailto:Djones@co.genesee.mi.us">Djones@co.genesee.mi.us</a></td>
</tr>
<tr>
<td>Ray Zanke</td>
<td>Redstone</td>
<td>r <a href="mailto:Zanke@co.genesee.mi.us">Zanke@co.genesee.mi.us</a></td>
</tr>
<tr>
<td><strong>CONTRACTORS</strong></td>
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<tr>
<td>Ricky Harrison</td>
<td></td>
<td><a href="mailto:rj@paulyjail.com">rj@paulyjail.com</a></td>
</tr>
<tr>
<td>Gary Zulinski</td>
<td></td>
<td><a href="mailto:gzulinski@chooseid.com">gzulinski@chooseid.com</a></td>
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<tr>
<td>Jerrod Pung</td>
<td>Granger Construction</td>
<td><a href="mailto:Jpung@grangerconstruction.com">Jpung@grangerconstruction.com</a></td>
</tr>
<tr>
<td>Buddy Stanford</td>
<td></td>
<td><a href="mailto:bstanford@redoxcoatings.com">bstanford@redoxcoatings.com</a></td>
</tr>
<tr>
<td>Derrick Strong</td>
<td></td>
<td><a href="mailto:Dstrong@controlyourbuilding.com">Dstrong@controlyourbuilding.com</a></td>
</tr>
<tr>
<td>Darren Dittenber</td>
<td>Master Electric</td>
<td><a href="mailto:Darrend@masterelectricinc.net">Darrend@masterelectricinc.net</a></td>
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<tr>
<td>Jesse Fretwell</td>
<td></td>
<td><a href="mailto:jfretwell@aus.com">jfretwell@aus.com</a></td>
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<tr>
<td>Pat Trainor</td>
<td></td>
<td><a href="mailto:ptrainor@controlyourbuilding.com">ptrainor@controlyourbuilding.com</a></td>
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<tr>
<td>Jason Klingensmith</td>
<td></td>
<td><a href="mailto:jklingensmith@cccnetwork.com">jklingensmith@cccnetwork.com</a></td>
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<tr>
<td>Mark Lozen</td>
<td></td>
<td>ml <a href="mailto:Lozen@vtsystems.com">Lozen@vtsystems.com</a></td>
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<tr>
<td>Jack Bentley</td>
<td>Motorola Solutions</td>
<td><a href="mailto:Jack.bentley@motorolasolutions.com">Jack.bentley@motorolasolutions.com</a></td>
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<tr>
<td>Jonathan Benson</td>
<td></td>
<td><a href="mailto:jonathan.benson@avigilon.com">jonathan.benson@avigilon.com</a></td>
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<tr>
<td>Michael Hardin</td>
<td>Metro Controls</td>
<td><a href="mailto:Mhardin@metrocontrols.com">Mhardin@metrocontrols.com</a></td>
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<tr>
<td>Chad Tubbs</td>
<td></td>
<td><a href="mailto:chtubbs75@gmail.com">chtubbs75@gmail.com</a></td>
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<tr>
<td>Chad Johnson</td>
<td>FH Martin</td>
<td>cj <a href="mailto:Johnson@fhmartin.com">Johnson@fhmartin.com</a></td>
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<tr>
<td>Robert Suszynski</td>
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<td><a href="mailto:rs@chooseid.com">rs@chooseid.com</a></td>
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<tr>
<td>Rick Wright</td>
<td></td>
<td>r <a href="mailto:Wright@i2gsystems.com">Wright@i2gsystems.com</a></td>
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<tr>
<td>Sabrina Byers</td>
<td>Lasalle Construction</td>
<td><a href="mailto:Sbyers@lasalleinc.com">Sbyers@lasalleinc.com</a></td>
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<tr>
<td>Jeff Richardson</td>
<td>Eckert Mechanical</td>
<td><a href="mailto:JRichardson@eckermechanical.com">JRichardson@eckermechanical.com</a></td>
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<tr>
<td>Jordan Valsek</td>
<td>Huntington Const'N</td>
<td><a href="mailto:Valsek@huntingtonconstruction.com">Valsek@huntingtonconstruction.com</a></td>
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<tr>
<td>Trent Mcnutt</td>
<td></td>
<td><a href="mailto:tmcnutt@tnemec.com">tmcnutt@tnemec.com</a></td>
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<tr>
<td>Bud Provenzano</td>
<td>Clark Construction</td>
<td><a href="mailto:bud@clarkcc.com">bud@clarkcc.com</a></td>
</tr>
<tr>
<td>Zach Geiser</td>
<td>Senstar</td>
<td><a href="mailto:zach.geiser@senstar.com">zach.geiser@senstar.com</a></td>
</tr>
<tr>
<td>Chris Jones</td>
<td></td>
<td><a href="mailto:chris.jones@aus.com">chris.jones@aus.com</a></td>
</tr>
<tr>
<td>Amanda Goodspeed</td>
<td>Granger Construction</td>
<td><a href="mailto:Agoodspeed@grangerconstruction.com">Agoodspeed@grangerconstruction.com</a></td>
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<tr>
<td>Kent Broughtman</td>
<td>Lasalle Construction</td>
<td><a href="mailto:Kbrughtman@lasalleinc.com">Kbrughtman@lasalleinc.com</a></td>
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<tr>
<td>Angelica LeDonne</td>
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<td><a href="mailto:Angelica.ledonne@allegion.com">Angelica.ledonne@allegion.com</a></td>
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<td>Buddy Stanford</td>
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<td><a href="mailto:bstanford@tnemec.com">bstanford@tnemec.com</a></td>
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<tr>
<td>Name</td>
<td>Company</td>
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<tr>
<td>Bill Olm</td>
<td>ACCURATE CONTROLS</td>
<td><a href="mailto:bolm@accuratecontrols.com">bolm@accuratecontrols.com</a></td>
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<tr>
<td>Antonio Villella</td>
<td></td>
<td><a href="mailto:Avillella@i2gsystems.com">Avillella@i2gsystems.com</a></td>
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<td>kenn andridge</td>
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<td><a href="mailto:kenneth.andridge@allegion.com">kenneth.andridge@allegion.com</a></td>
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<tr>
<td>Trent Bomers</td>
<td></td>
<td><a href="mailto:TBomers@MetroControls.com">TBomers@MetroControls.com</a></td>
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<tr>
<td>Jason Bedford</td>
<td></td>
<td><a href="mailto:jbedford@aristeo.com">jbedford@aristeo.com</a></td>
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<tr>
<td>Scott Spencer</td>
<td>HUNTINGTON CONST’N</td>
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<tr>
<td>Mary Kane-Butkovich</td>
<td>CLARK CONSTRUCTION</td>
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<tr>
<td>Ryan Sly</td>
<td></td>
<td><a href="mailto:rsly3@sgcs.net">rsly3@sgcs.net</a></td>
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<tr>
<td>Jon Tkac</td>
<td></td>
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<td>Mike King</td>
<td></td>
<td><a href="mailto:m.king@escon.us">m.king@escon.us</a></td>
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<td>Louis Muszynsk</td>
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<tr>
<td>Thomas Kent</td>
<td></td>
<td><a href="mailto:tom@absolutesecurityus.com">tom@absolutesecurityus.com</a></td>
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<tr>
<td>Eric Josef</td>
<td>DCC CONSTRUCTION</td>
<td><a href="mailto:ericj@dccconstruction.com">ericj@dccconstruction.com</a></td>
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<tr>
<td>Andrew Brandimarte</td>
<td></td>
<td><a href="mailto:andy.brandimarte@avigilon.com">andy.brandimarte@avigilon.com</a></td>
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<tr>
<td>Scott Wheeler</td>
<td>THE DAILEY COMPANY</td>
<td><a href="mailto:swheeler@daileyco.com">swheeler@daileyco.com</a></td>
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<tr>
<td>Network Fire &amp; Security</td>
<td></td>
<td><a href="mailto:epotter@networkfiresecurity.com">epotter@networkfiresecurity.com</a></td>
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<tr>
<td>Scott Hall</td>
<td></td>
<td><a href="mailto:Scott.Hall@senstar.com">Scott.Hall@senstar.com</a></td>
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<tr>
<td>Duane Bernard</td>
<td>THE DAILEY COMPANY</td>
<td><a href="mailto:dbernard@daileyco.com">dbernard@daileyco.com</a></td>
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</tbody>
</table>
Contractor Meeting

2709 S. Telegraph Road, Bloomfield Hills, MI 48302

PROJECT
Genesee County Juvenile Justice Center
3651.00

DATE
5/12/2020 1:00 PM - 2:00 PM

ORGANIZER
Joel Galanty

SUBJECT
Pre-Bid Video Conference Minutes

LOCATION
Zoom

INVITEES
Robert Summers, Alaa Chehab, Josh Freeman, Joel Galanty, Barry Gold, Mark Hankeywycz, Scott Hemeyer, Rhonda Ihm, Derrick Jones, Teffera Kowalske, Paula Leatherman, Peggy Matta, Athanocis Nasr, Daniel Redstone, Julia Smith, Greg Wehling, Jack Wheatley, Ray Zanke

ATTENDEES
Robert Summers (Summers Associates, LLC), Alaa Chehab (DesaiNasr), Josh Freeman (Genesee County), Joel Galanty (Redstone Architects Inc), Barry Gold (Fishbeck), Mark Hankeywycz (Summers Associates, LLC), Scott Hemeyer (ROWE Professional Services), Rhonda Ihm (Genesee County), Derrick Jones (Genesee County), Teffera Kowalske (Redstone Architects Inc), Paula Leatherman (Fishbeck), Peggy Matta (Redstone Architects Inc), Athanocis Nasr (DesaiNasr), Patrick O’Connor (Fishbeck), Daniel Redstone (Redstone Architects Inc), Julia Smith (Fishbeck), Greg Wehling (Elevatus Architecture), Ray Zanke (Genesee County)

CC
Jon Care (Genesee County), Martin Cousineau (Genesee County), Patrick O’Connor (Fishbeck), Shaun Shumaker (Genesee County), Ted Henry (Genesee County), Barb Menear (Genesee County), Cory Miller (Elevatus Architecture), John Gadola (Genesee County), Rhonda Ihm (Genesee County), Kim Courts (Genesee County), Aaron Jones (Genesee County), Carl Wilson (Genesee County), Cliff Baker (Fishbeck), Fadi Alkhouri (DesaiNasr), Sam Schaut (Elevatus Architecture), Vern Toman (Fishbeck), Steve Kleiner (Genesee County), Bruce Rich (Genesee County), Julie Chickion (Assa Aboy), Chad Sharpe

MEETING COMMENTS
These minutes were recorded from the Pre-Bid Video Conference that included the mandatory attendance of the General Contractors that are interested in submitting a bid for the project. Several subcontractors and suppliers were also in attendance. For a list of those that attended, please reference the Pre-Bid Meeting Attendee’s list.

Jim Miloch from Fishbeck (MEP Consultant) was also in attendance.

MEETING MINUTES
ACTUAL START DATE
5/12/2020 1:00 PM

MINUTES

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Subject</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item 01</td>
<td>Rules and Instructions from the County-Derrick Jones</td>
<td>Slide 1: Genesee County Juvenile Justice Center Pre-Bid Video Conference is visible</td>
</tr>
</tbody>
</table>
1:00pm - May 12, 2020

**Slide 2:** Pre-Bid Video Conference Agenda is visible

1. The Zoom Video Conference format was selected for the Pre-Bid Meeting format in order to be in compliance with the Governor's Executive order.
2. Video Conference is being recorded for recording keeping purposes.
3. Question pertaining to the project can be submitted via chat feature at any time during the conference and will be addressed during the Questions and Response section.
4. You will be mused and asked that you remain muted during the conference.
5. Minutes for today's meeting will be issued as part of Addendum No. 6 and will be posed on Bidnet and the County website, no later than 5:00 pm on May 19, 2020.
6. Any questions relating to procurement should be proceeded with the word "procurement" when submitted.

<table>
<thead>
<tr>
<th>Item 02</th>
<th>County Introductions-Derrick Jones</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Josua Freeman-Director of Administration</td>
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<tr>
<td></td>
<td>Ray Zanke-Director of Building and Grounds</td>
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<td></td>
<td>Derrick Jones-Purchasing Administrator</td>
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<td></td>
<td>Rhonda Ihm-Juvenile Section Coordinator for the 7th District Court</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item 03</th>
<th>Procurement Guidelines and Requirements-Derrick Jones</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Information can be obtained from the County and Bidnet websites under Introduction and Bid Documents for Project ITB-#20-214, originally posted on March 6, 2020. Pre-Bid meeting was noted as mandatory. Addendum No. 5 outlines the revised timeline and for submittal procedure for the project. Bids are due on Thursday, June 4, 2020 by 3:00 pm. All submissions will be date/time stamped to ensure submittals arrived before the deadline. Bids must be submitted in a sealed envelope, labeled on the exterior with the bid number, bid name, due date and time with the name of the firm. All addenda must be acknowledged on the exterior of the envelope.</td>
</tr>
<tr>
<td></td>
<td><strong>A. Instructions to Vendors:</strong></td>
</tr>
<tr>
<td></td>
<td>1. Bids are due on Thursday, June 4, 2020 by 3:00 pm.</td>
</tr>
<tr>
<td></td>
<td>2. Only contractors in attendance that were preregistered can submit bids. Please review bid document requirements as posted on the County and Bidnet websites.</td>
</tr>
<tr>
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<td>3. Bid submittals are required to include the following:</td>
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<td>(1) Original-please labeled &quot;Original&quot;</td>
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</tbody>
</table>
Contractor Meeting

MEETING DATE: 5/12/2020

(2) Paper copies
(1) Electronic copy

4. Information regarding bid submittal is published on the County Website as well as Michigan Intergovernmental Trade Network (MITN), also reference as Bidnet. All addenda associated with this project will be posted on those two sites.

5. All communication regarding the invitation to bid must be directed to the Derrick Jones with the Genesee County Purchasing Department only.

6. All Proposers are responsible for routinely checking the websites for any/all posted addenda.

7. Please note that there is a sample contract enclosed in the bid documents.

8. The County does require a signed County insurance checklist.

9. Please follow Section 7 of Invitation to Bid #20-214 regarding your submission.

10. Local Preference for this project was addressed in Addendum No. 5., item 93.

B. Terms and Conditions
   1. May be viewed on the County’s website.
   2. Purchasing Department is the issuing department.
   3. Bid bonds are required as part of the submission of the bid which represents 5% of total submission or a cashiers check payable to the Treasure, County of Genesee.

C. Submission of Bids
   1. All addenda will posted on websites previously mentioned and must be acknowledged as received by bidders as part of bid submittal.
   2. To ensure proper consideration, submit a complete response to the Invitation to Bid, as outlined in Section 7.
   3. Validated period for submission is 120 days. It is the County’s intention to award this bid by August 31, 2020 as stated in Addendum No. 5.
   4. The County does have the right reject any bid received.
   5. If a proposer discovers any ambiguity, conflict, discrepancy, omissions or errors, please immediately notify the Genesee County Purchasing Administrator so that information can be clarified and if required, issue and addendum.
   6. All subcontractors being added to proposals
must be approved by Genesee County.
7. Qualifications of the Vendors-General Contractors must be financially stable and have the financial where with all to carry out the requirements of the solicitation.
8. The General Contractor have at least 5 years of previous direct experience in the provision of the required services referenced in this solicitation.
9. Proposals personal management to be utilized in the service, be required to be knowledgeable as it relates to this particular project.
10. The County does reserve the right to perform investigation as it deems necessary to ensure competent individuals for this particular project.
11. All Proposers submitting bids must also submit the completed reference form from the Invitation to Bid.
12. Required Performance, Payment and Maintenance bonds, as they relate to the State of Michigan, must have a penalized amount of at least 100% of the total amount due to the contractor under this agreement.
13. The County does have a Prevailing Wage requirement.
14. Submittal of a Work Plan is requirement. Describe your plan in a narrative form, your plan for accomplishing the work. Include any time frame or schedule to adhere based on staffing and current workload from other clients. Include number of labor hours allocated to each task, including cost per labor hour and state the amount for time of completion from date of notification of commencement. Labor requirements, staff qualification and experience must also be submitted.
15. Statement of Project to state in precise terms in narrative form, your understanding of Scope of Work for this project.
16. Provide a Safety Program
17. Provide information on any lawsuits and results against your company over the last 5 years including any mediation or arbitration.
18. Provide Bid Bond or Cashier’s Check.
19. Include any additional information you feel is necessary for consideration.
20. Provide full name and addresses of organization, including branches as well.
21. Provide names and contact information for all
personal authorized to negotiate the proposed contract.
22. If there are any exceptions to any of the terms that are currently part of the project, please clarify exceptions.
23. Forms to be completed and submitted along with the bid are included in the Invitation to Bid and Project Manual-Vol.-1. These forms are:
   - Signed Signature Page
   - Executed Insurance Checklist
   - References
   - Familial Relationship Sworn Statement
   - Bid Submittal Checklist (amended-Addendum No.2)
24. General Contractors that are participating in the mandatory meeting are the only individuals that will be allowed to submit bids for this particular project.

D. Addenda
Addendum No.1: Issued on March 24, 2020
   Revised Project Timeline due to Covid-19
Addendum No.2: Issued on March 25, 2020
   Revisions, Changes and Drawings posted
Addendum No.3: Issued on April 27
   Contractor Questions and Responses
   Project placed on Hold due to Executive Order.
Addendum No.4: Issued on April 13, 2020.
   Revised Project Timeline posted
Addendum No.5: Issued on April 27, 2020
   Contractor Questions and Responses
   Approved Substitutions
Addendum No.6: Intended be issued by May 19, 2020 before 5:00 pm
   Will Include:
   - Revisions, Changes and Drawings
   - Pre-Bid Video Conference Meeting Minutes
   - Contractor Questions and Responses
   - General Contractor Attendance Sheet

| Item 04 | Design Team Introductions- Joël Galanty | Redstone Architects (Architect of Record):
|         |                                      | Daniel Redstone - Principal
|         |                                      | Joël Galanty - Project Manager
|         |                                      | Peggy Matta - Project Architect |
# Contractor Meeting

**MEETING DATE:** 5/12/2020

<table>
<thead>
<tr>
<th>Item 05</th>
<th><strong>Project Overview</strong>-Joel Galanty</th>
<th>Slide 3: 3 Dimension Model of Building</th>
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<tbody>
<tr>
<td></td>
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<td>A. Phase I</td>
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<tr>
<td></td>
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<td>1. Building</td>
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<td>a. 54,000 sf - single story with stair access to roof for maintenance.</td>
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<td>b. Zone A - Administration and Day Treatment</td>
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<td>c. Zone B - Detention and Building Operations</td>
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<td>Slide 4: Site Ariel View</td>
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<td>B. Phase II (N.I.C.-Not part of this Project)</td>
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<td>1. Demolition of Existing Campus</td>
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<td>2. Staff parking Lot</td>
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<td>3. Dumpster Enclosure</td>
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<td>4. Dock Lift</td>
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<td>5. Detention Yard</td>
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<td></td>
<td>6. Security Cameras</td>
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<thead>
<tr>
<th>Item 06</th>
<th><strong>Questions and Responses</strong>-County and Design Team</th>
<th>Slide 5: Contractor Questions</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Questions submitted via Zoom Chat feature were read aloud with verbal responses provided by the County and Design Team. There were a few questions were responses were not able to be provided. Addendum No. 6 will provide the responses in written form along with the other questions submitted via chat during the meeting.</td>
<td></td>
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<thead>
<tr>
<th>Item 07</th>
<th><strong>Addendum No. 6 Items</strong></th>
<th>Slide 6: Addendum No.6 is intended to be issued by May 19, 2020.</th>
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<tbody>
<tr>
<td></td>
<td>A. Architectural and Security Drawing Sheets</td>
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<td>B. Building Insulation Specification</td>
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<td>C. Pre-Bid Video Conference Meeting Minutes</td>
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<td></td>
<td>D. Contractor Questions and Responses</td>
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<td></td>
<td>E. General Contractor Attendance Sheet</td>
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Genesee County Juvenile Justice Center

Pre-Bid Video Conference

May 12, 2020
1:00 pm
Pre-Bid Video Conference Agenda

Genesee County Juvenile Justice Center

Project #20-214 May 12, 2020, 1:00 pm

1. Rules and instructions

2. County Introductions - Derrick Jones

3. Procurement Guidelines and Requirements
   A. Instructions to Vendors
   B. Terms and Conditions
   C. Submission of Bids
   D. Addenda

4. Design Team Introductions – Joel Galanty

5. Project Overview
   A. Phase I
   B. Phase II (N.I.C.)

6. Questions and Responses
   Please submit your question in the chat box

7. Addendum No. 6
3d Model View
Genesee County
Juvenile Justice Center

Contractor Questions
Please enter your questions into the chat box.
Addendum No. 6 will be posted on May 19, 2020

This concludes the Pre-Bid Meeting
Thank you for attending.

For additional information please refer to the Genesee County Purchasing Department website