

#### ADDENDUM NO. 05

Northland Corridor Redevelopment Project Phase 4 631 Northland Ave. Buffalo, NY 14211

#### **DATE**

November 7, 2025

#### **OWNER**

Buffalo Urban Development Corporation 95 Perry Street, Suite 404 Buffalo, NY 14203

# ARCHITECT/ENGINEER

Wendel WD Architecture, Engineering, Surveying & Landscape Architecture, PC 375 Essjay Road, Suite 200 Williamsville, NY 14221

Project No. 432607

This Addendum is being issued to clarify the bid documents and shall supersede and supplement all portions of previously issued bid documents with which it conflicts. It shall be made an integral part of the construction documents.



| Project Northland Corridor Red   | evelopment Phase 4 (BUDC) Addendu  | ım No <b>5</b>               |  |  |
|--|--|------------------------------|--|--|
| 631 Northland Avenue, I  | Buffalo, NY Co   | ontract                      |  |  |
| Wendel Project No.   | 432607   | Date <b>11/07/2025</b>       |  |  |
|  |  |                              |  |  |
| ARTICLE - 1  | DRAWING NO.  | N/A                          |  |  |
|  | SPEC<br>SECTION  | Table of Contents            |  |  |
| REPLACE: Specification Table of C  | contents with the revised issued as part of this add                     | dendum.                      |  |  |
| ARTICLE - 2  | DRAWING NO.  | N/A                          |  |  |
|  | SPEC<br>SECTION  | 085113 – Aluminum<br>Windows |  |  |
| QUESTION: Is there a specific hardware requirement for the awning vents, and should there be limit locks? Please provide hardware spec for operable windows. |  |                              |  |  |
| ANSWER: Specification Section 085113 Aluminum Windows paragraph 2.6 has been modified to include information for the required hardware.                      |  |                              |  |  |
| REPLACE: Section 085113 with the   | e revised issued as part of this addendum.                               |                              |  |  |
| ARTICLE - 3  | DRAWING NO.  | N/A                          |  |  |
|  | SPEC<br>SECTION  |                              |  |  |
| QUESTION:  1. Will the owner be providing cleanup and during the world   | air monitoring and testing of soils for the duration k of this contract? | of the brownfield            |  |  |

### ANSWER:

1. The owner will provide Community Air Monitoring and any soil sampling required by BCP during intrusive soil work. The contractor is responsible for all testing required for landfill acceptance of excavated soil.

2. For bidding purposes, what should we bidders assume to do with any water that is pumped during site dewatering? Should we assume that ground and surface water are contaminated?

2. Contractor is to manage dewatering effluent in conformance with drawings and specifications. Water disposition must conform to USEPA, NYSDEC and City regulations and requirements. Contractor should assume that testing will be required to show compliance with regulating agency requirements. Contractor shall also refer to Phase II Environmental reports in Specification Appendix for groundwater results.



| Project Northland Corridor  | Redevelopment Phase 4 (BUDC)   | Addendum             | No. <u>5</u>                          |
|---|--|----------------------|---------------------------------------|
| 631 Northland Aven  | ue, Buffalo, NY  | Conf                 | tract -                               |
| Wendel Project No.  | 432607   |                      | Date 11/07/2025                       |
|   |  |                      |                                       |
| ARTICLE - 4   |  | DRAWING NO           | A310                                  |
|   |  | SPEC                 |                                       |
|   |  | SECTION _            | N/A                                   |
| be carried in our pricing in case what value should be carried?  ANSWER: The project will not add a crane | te C36 ane to make sure that hydraulic fluid a repair needs to be made to the cra allowance and contractor should bid identified become required, a change | ane? If there should | d be an allowance, ents. Should crane |
|   | ,  | ,                    |                                       |
| ARTICLE - 5   | <u> </u>   | DRAWING NO<br>SPEC   | S101A-B; S302                         |
|   |  | SECTION _            | N/A                                   |
|   | I 1 S-302 the cleaning and or removi<br>med as part of the lead abatement?   |                      |                                       |
|   | ntal reports in Specification Appendix<br>d based and therefore not required to  |                      |                                       |
| ARTICLE - 6   |  | DRAWING NO.          | N/A                                   |
|   |  | SPEC                 | NI/A                                  |
|   |  | SECTION _            | N/A                                   |



| Project   | Northland Corridor Re  | edevelopment Phase 4 (BUDC)  | _ Addendur  | n No<br>ntract                     | 5                         |
|---|--|--|---|------------------------------------|---------------------------|
| Wendel  | Project No.  | 432607   | _ C0i   | Date                               | 11/07/2025                |
| QUEST<br>1.   | When should the site dem be before, during, and/or                                     | nolition and site work scope indicated<br>after the brown field work is perform<br>e BCP remediation may not begin ur  | ed? Per the BCF   |                                    |                           |
| 2.  | What subgrade elevations scope includes?   | s is the brownfield remediation to ver   | sus the subgrad   | le elevat                          | ions our                  |
| 3.  | Can it be assumed that the site with suitable structuration                            | ne BCP contractor will replace any co<br>al fill?  | ontaminated soils                                       | s remove                           | ed from the               |
| ANSWE<br>1.   | Assume site demolition w completed and approved,                                       | ork to begin in Spring 2026. Once the coordination with the scope on the basis contract scope and fee, a cha   | oid docs will take                                      | e place.                           | Should                    |
| 2.  | assume work will start at a<br>the New York State Brown<br>not been finalized. This in | ormation provided on the bid set doc<br>existing grade. Where we recognize<br>nfield Cleanup Program, a remediati<br>formation will be issued as an adder<br>ble, and if required a change order w | this project has<br>on plan and ass<br>ndum to the cont | been ac<br>ociated o<br>tracts for | cepted into<br>design has |
| 3.  | completion of the remedia<br>be addressed via addende                                  | d provide a bid that aligns with the so<br>ation design, coordination on additior<br>um and a change order. Imported fill<br>vironmental requirements and must b<br>ent.                           | nal scope or cha<br>materials must                      | nges to :<br>be show               | scope will<br>on to meet  |
| ARTICL  | E- <b>7</b>  |  | RAWING NO.  | A151/                              | A & A151B                 |
|   |  |  | SPEC<br>SECTION   |                                    | N/A                       |
| QUESTION: Drawings A151A and A151B reference "New TPO Roof System (see A306)" however drawing A306 is not found in the bid documents received. Where can this drawing be found. |  |  |   |                                    |                           |
| ANSWE   | ≣R:  |  |   |                                    |                           |

REPLACE: Drawings A151A and A151B with the revised issued as part of this addendum.

The note on A151A & A151B should read "New TPO Roof System (see A451)". The updated drawings

are attached.



| Project Northland Corridor Redevelopment Phase 4 (BUDC)  | Addendum I                               | No. <u>5</u>                     |
|--|--|----------------------------------|
| 631 Northland Avenue, Buffalo, NY  | Contr                                    | act                              |
| Wendel Project No. 432607  | D  | ate 11/07/2025                   |
|  |  |                                  |
| ARTICLE - <u>8</u>   | DRAWING NO                               | N/A                              |
|  | SPEC                                     |                                  |
|  | SECTION                                  | N/A                              |
| QUESTION: Asbestos flashing and other hazardous materials are called out on the noted which will remain and which will be removed. Please confirm w whose responsibility this would fall under.  |  |                                  |
| ANSWER: The HM-Series has been developed to show areas of removals and in Materials shown on the plans are scheduled for removal. There are n Materials that are shown for informational purposes only. All Asbestos plans shall be removed by a Licensed Abatement Contractor as indices. | o current Asbestos<br>s-Containing Mater | -Containing<br>ials shown on the |
| ARTICLE - 9  | DRAWING NO                               | A900                             |
|  | SPEC<br>SECTION                          | N/A                              |
| <b>QUESTION</b> : There are fire-rated partitions on the plans, but all doors confirm this is correct.   | s appear to be non-                      | rated. Please                    |
| <b>ANSWER</b> : Door #7 should have a 90-minute fire rating assigned to it drawing sheet.  | t. Please refer to th                    | ne revised A900                  |
|  |  |                                  |
| REPLACE: Drawing A900 with the revised, issued as part of this add   | endum.                                   |                                  |
|  |  | A101A-B, A900                    |

- 1. Doors 04, 15, 16, 18, 20, 22, & 26 and openings 15 thru 26 aren't located on the drawings (A101A and A101B) or Door Schedule (A900). Please provide more information about these openings on what type of cylinder is needed?
- 2. Door 04 has been assigned to both hardware set 5 and 2. Please confirm that hardware set 2 is the correct hardware set to use.
- 3. Hardware Set 2: Openings 17 and E12 have been assigned to this hardware set and they cannot be located on drawings A101A and A101B or Door schedule A900. Please provide more information on the locations.

#### ANSWER

- 1. Door 04 is located on the A101B drawing sheet. Doors 15, 16, 18, 20, 22, & 26 and openings 15 thru 26 can be ignored.
- 2. Door 04 should be Hardware set #2.
- 3. Please remove Openings 17 and E12 from the list as they do not exist on the project.

CLARIFICATION: Door 04 shall receive Hardware Set #2.



| Project Northland Corridor   | Redevelopment Phase 4 (BUDC)   | Addendur           | n No      | 5                     |
|--|--|--------------------|-----------|-----------------------|
| 631 Northland Ave  | nue, Buffalo, NY   | Contract           |           | -                     |
| Wendel Project No.   | 432607   | <u></u>            | Date _    | 11/07/2025            |
|  |  |                    |           |                       |
|  |  |                    |           |                       |
| ARTICLE - 11   |  | DRAWING NO.        |           | N/A                   |
|  |  | SPEC<br>SECTION    |           | 13, 083323,<br>179200 |
| jambs. This is not a "normal" a  | nd 083323 1.2A reference joint sealant industrial pplication as the weather seal from the any space between the track and jamles?  | e overhead door i  | s suffici | ent to keep           |
| ANSWER: The intent of the cross-reference to 079200 Joint Sealants is to provide sealant between fixed elements, such as between a fixed door casing and the adjacent fixed construction. The weather seal on the overhead and sectional doors is sufficient between the door tracks and the jambs, and no sealant is intended to be installed at those locations. |  |                    |           | the                   |
| ARTICLE - 12   |  | DRAWING NO.        |           | N/A                   |
|  |  | SPEC<br>SECTION    | 0         | 87100                 |
| QUESTION: Are there any approved alternation   | ate manufacturers for the door hardwa  | re?                |           |                       |
| Design products. Subject to co   | 00 General Notes - Subcategory G sta<br>empliance with requirements, provide s<br>cturers that meet the same function, re<br>ics." | specified product, | or comp   | oarable               |
|  | ts from different manufacturers are allents, industry standards, quality and ae  |                    | hey mee   | et the same           |
| ARTICLE - 13   |  | DRAWING NO.        | E10       | 00, E502              |
|  |  | SPEC<br>SECTION    |           | N/A                   |
| QUESTION: Typical electrical conduit on Eddetail. Please provide.  | 100 for connections to site lighting doe   | s not have a stan  | dard co   | nduit trench          |

Detail 5 on E-502 applies, conduit size to be adjusted as noted on the drawings.



| Project Northland Corridor Redevelopment Phase 4 (BUDC)  | Addendum                | No. <u>5</u>      |  |  |
|--|-------------------------|-------------------|--|--|
| 631 Northland Avenue, Buffalo, NY  | Con                     | tract -           |  |  |
| Wendel Project No. 432607  |                         | Date 11/07/2025   |  |  |
| ,  |                         |                   |  |  |
| ARTICLE - 14   | DRAWING NO<br>SPEC      | AD101A, S101A     |  |  |
|  | SECTION                 | N/A               |  |  |
| QUESTION: Re: Drawing AD101A, note D07 - Remove existing concrete pad and footings. Are these footings to be removed in their entirety or to 1-2 feet below grade, leaving in place anything below this elevation?  Re: Drawing AD101A, note D20 - remove existing steel stair and associated hardware, railings and foundations. Are these footings to be removed in their entirety or 1-2 feet below grade, leaving in place anything below this elevation?  If fully removed, can a detail be provided that shows the extent of the footings? Also, will these footings/foundations need to be disposed of as contaminated due to soil conditions, or as standard C&D?  ANSWER: Please refer to Addendum 02, Article 11 and 14 and the revised drawings attached to that addendum. Revised Demo Note D07 states to remove in their entirety. Existing information/detail on the exact depth |                         |                   |  |  |
| is unknown at this time. At this time, the footings/foundations are to Should additional information become available through the BCP in shared with the contractor and a scope change negotiated as approach.  ARTICLE - 15   | nvestigation, that info |                   |  |  |
| AITHOLL - 10   | SPEC                    | IV/A              |  |  |
|  | SECTION                 | N/A               |  |  |
| QUESTION: At the pre-bid conference, it was mentioned that the Owner will be removing existing contents. With the noted asbestos debris present, will the Owner remove the contents prior to work start? Or will the removal have to be sequenced with the abatement operations?  ANSWER: The existing contents that the Owner plans to salvage will be removed by the Owner prior to  |                         |                   |  |  |
| start of construction.   | will be removed by the  | ne Owner prior to |  |  |
| ARTICLE - <u>16</u>  | DRAWING NO.             | N/A               |  |  |
|  | SPEC                    | 004440            |  |  |
|  | SECTION _               | 001113            |  |  |
| QUESTION: Is there a possibility of another site walkthrough prior   |                         |                   |  |  |

**ANSWER**: Yes. As advised at the Prebid Meeting and in Specification Section 001113, the Property Management points of contact are listed to schedule an additional site walkthrough.



| Project   | Northland Corridor                                  | Redevelopment Phase 4 (BUDC)   | Addendur              | m No <b>5</b>           |
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|   | 631 Northland Aven                                  | ue, Buffalo, NY  | Co                    | ntract -                |
| Wende   | el Project No.                                      | 432607   |                       | Date 11/07/2025         |
|   |   |  |                       |                         |
| ARTIC   | LE - <b>17</b>                                      | <u></u>  | DRAWING NO.           | S101A-B, S500           |
|   |   |  | SPEC<br>SECTION       | 012100                  |
| QUES.   | TION:   |  |                       |                         |
| 1.  |   | ntity of concrete repairs for allowan of the total ground square footage i                                     |                       |                         |
| 2.  | Can an addendum be recomplete these repairs         | eleased showing the detailed sf are<br>?   | ea of the true footag | e needed to             |
| 3.  |   | on and patching scope for the area<br>airs are completely different  | of concrete repair t  | to be quantified?       |
| ANSW  | ED.   |  |                       |                         |
| 1.  | Please refer to the Allov<br>S101A plus appropriate | wance description in specification sesheets that identify the quantities for and 1/S101B for concrete slab-on- | for concrete repair.  | Contractor shall        |
| 2.  |   | uired existing concrete slab-on-grad<br>g debris and wood blocking coverin                                     |                       | ent currently           |
| 3.  | masonry are discovered                              | areas are shown on the structural of to require repairs during construct ble project specifications.           |                       |                         |
|   |   |  |                       |                         |
| ARTIC   | LE - <u>18</u>                                      | <u></u>  | DRAWING NO.           | N/A                     |
|   |   |  | SPEC<br>SECTION       | 075400 – TPO<br>Roofing |
| QUESTION: 1. Spec section 075400 TPO Roofing paragraph 1.9.B specifies a warranty term but no wind speed. |   |  |                       |                         |

# ANSWER:

- 1. The warranty paragraph has been modified for clarification.
- 2. A paragraph has been added for coverboards.

We would recommend 90 mph.

REPLACE: Replace specification section 075400 TPO Roofing with the revised issued in this addendum.

2. Spec section 075400 TPO Roofing does not specify a coverboard. We would strongly suggest that you add a coverboard to the assembly for both wind resistance and crush resistance. We would recommend ½" Securock by Carlisle which has a compressive strength of 1,800 PSI. The specified isocyanurate insulation has a compressive strength of 20 PSI which is fine as long as

there is a coverboard to protect the insulation and prevent wind related failure.



| Project Northland Corridor Redevelo   | pment Phase 4 (BUDC) Addendum                 | No. <u>5</u>                  |  |  |  |
|---|---|-------------------------------|--|--|--|
| 631 Northland Avenue, Buffa   | lo, NY Cont                                   | ract                          |  |  |  |
| Wendel Project No. 43260  |   | Date 11/07/2025               |  |  |  |
|   |   |                               |  |  |  |
|   |   |                               |  |  |  |
| ARTICLE - 19  | DRAWING NO                                    | N/A                           |  |  |  |
|   | SPEC<br>SECTION _                             | 087100                        |  |  |  |
| QUESTION: 087100 2.04C requests furnishing new cylinders to match Owner's preferred keying system. What is the owner's preferred keying system? |   |                               |  |  |  |
| ANSWER: The owner is requesting that all doors in t   | he project are put on one single master key.  |                               |  |  |  |
|   |   |                               |  |  |  |
| ARTICLE - <b>20</b>   | DRAWING NO                                    | N/A                           |  |  |  |
|   | SPEC SECTION _                                | 099113 – Exterior<br>Painting |  |  |  |
| QUESTION: 1. Drawing A301 - A304. Note C10  | and C25: Can you please provide a specificati | on for the                    |  |  |  |

- Corrosion Resistant Galvanizing Paint?
- 2. Drawing A301 A304, Note C12: Can you please provide a specification for the Protective Paint?
- 3. Can you please advise where Spec Section 099602 High Performance Coatings are to be used?

# ANSWER:

- 1. Section 099113 Exterior Painting has been revised to clarify these products based on the applicable substrate.
- 2. Section 099113 Exterior Painting has been revised to clarify these products based on the applicable substrate.
- 3. Section 099602 High Performance Coatings is not currently being utilized on this project. The specification will remain in the contract documents so that if it is determined during construction that high performance coatings are needed, the specification will be available.

REPLACE: Specification section 099113 with the revised specification section 099113 issued as part of this addendum.



| Project | Northland Corrid | lor Redevelopment Phase 4 (BUDC) | Addendun        | n No     | 5                          |
|---------|------------------|----------------------------------|-----------------|----------|----------------------------|
|         | 631 Northland A  | venue, Buffalo, NY               | Cor             | ntract _ | -                          |
| Wendel  | Project No.      | 432607                           | <u></u>         | Date _   | 11/07/2025                 |
|         |                  |                                  |                 |          |                            |
| ARTICLE | E - <b>21</b>    |                                  | DRAWING NO.     |          | N/A                        |
|         |                  |                                  | SPEC<br>SECTION |          | Appendix Ph<br>SA Feb 2024 |

#### QUESTION:

- 1. The asbestos survey excludes 3 inaccessible areas. Sampling must occur in these areas when they are accessed for work. These include the area below the rotoblast, inside the exterior furnace, and electrical and switch boxes. Are these assumed to contain asbestos-containing materials? If so, will this work be addressed via the contingency allowance?
- 2. The pre-renovation Hazardous Materials inspection has tests of the wood floor blocking listed as non-PCB containing (Feb 2024). The 700002 Phase 1 Assessment (Feb 2024) documents state that PCB was detected in the wood block flooring. Is all wood floor blocking to be considered PCB-containing?
- 3. The Limited pre-renovation Hazardous Materials inspection describes the floor blocking as being "black creosote wood blocking". NYS requires wood containing/coated with creosote to be disposed of in a landfill permitted by the DEC to accept such material. If not PCB-containing, does the wood floor blocking contain creosote? Is all wood floor blocking to be treated as creosote-containing for handling and disposal purposes?

#### ANSWER:

- The area under the rotoblast and the interior of the exterior furnace remain inaccessible. Additionally, there has been no way to determine what suspect materials, if any, are present within these spaces. While sampling of materials would be required to confirm that they are non-asbestos containing, however, should the abatement process of the existing materials render the inaccessible spaces "contaminated" then these areas are required to be cleaned in accordance with 12 NYCRR Part 56.
- 2. The Wood Block flooring had been tested in 2015 during a Fisher Associates Phase II, which was referenced in the Phase I ESA report (Feb 2024) issued in the Bid Specification Appendix Volume 2. As shown in the results, none of the wood blocking was determined to be a PCB-Containing material through this sampling effort. The contract documents do not indicate that the wood blocking shall be treated as a PCB.
- 3. The term "creosote" was used by the Inspector as a description only and not a declaration of material type. There is no evidence that this material is creosote.



| Project Northland Corridor Redevelopment Phase 4 (BUDC)   | Addendum No.  | 5   |
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| 631 Northland Avenue, Buffalo, NY   | Contract  |   |
| Wendel Project No. 432607   | Date  | 11/07/2025  |
|   |   |   |
| ARTICLE - <b>22</b>   | DRAWING NO.   | HM100   |
|   | SPEC<br>SECTION   | 028314  |
| QUESTION: Drawing HM-100 calls out LBP1 and LBP2 lead paint abatement no purposes. There are several other conditions listed where lead-cont painted surfaces but are not called out to be abated and quantities a would leave the painters to prep these surfaces. However, the paint prep/scrape these surfaces because they contain lead. The abatem scope because these areas are not noted on the HM plans to be ab Can lead abatement key notes for these lead-containing painted su quantities so the abatement contractors will include this scope of wor | taining materials are pre<br>are not provided for thes<br>ters are saying they will<br>nent contractors are not p<br>pated and quantities are<br>rfaces be added to the h | sent in<br>se areas. That<br>not<br>providing this<br>not provided. |
| ANSWER: Lead-Containing paint is not a regulated material and is listed for Cowith 29 CFR 1926.62.  | ontractor information on  | ly to comply  |
| Lead abatement key notes would not be applicable for these materi required for lead-containing paints.  | als as lead abatement is  | s not   |
| Specification 028314 – Lead Hazard Control Activities addresses th  | ne requirements.  |   |
| ARTICLE - 23  | DRAWING NO.   | HM Series   |
|   | SPEC SECTION  | N/A   |
| QUESTION: Drawing Note(s) LG, WIC, and WIG all instruct the contractor to per disposal methods. If the material is determined to be hazardous, the accordingly. If the material(s) are non-hazardous per TCLP testing,  | e waste should be dispo   | sed of  |

#### ANSWER:

should a Contractor assume for bidding purposes?

WIG and WIC are ACMs on their own and are associated with a known lead-product. Disposal methods shall be responsible to the means and methods chosen by the contractor.

as ACM. There is a significant cost difference between these disposal methods. What disposal method

It should be noted that WIC and WIG key Notes on HM-100 state that Lead Containing and Lead Based shall have TCLP sampling performed.



| Project Northland Corridor Redevelopment Phase 4 (BUDC)  | Addendum No                | o. <u> </u>         |  |  |
|--|----------------------------|---------------------|--|--|
| 631 Northland Avenue, Buffalo, NY  | Contrac                    | :t                  |  |  |
| Wendel Project No. 432607  | Date                       | e <u>11/07/2025</u> |  |  |
|  |                            |                     |  |  |
| ARTICLE - <b>24</b>  | DRAWING NO.                | N/A                 |  |  |
|  | SPEC<br>SECTION            | 233423              |  |  |
| <b>QUESTION</b> : Are there specifications for the ARUs, fans, or electrical alternates?   | ic heaters? Are there ap   | proved              |  |  |
| ANSWER: Specification section 233423 is the specification for the  | fans.                      |                     |  |  |
| The ARU's and electric heaters should be bid based on the schedules on the drawings. Be sure to refer to addendum updates to the schedules. The substitution period and process was to take place during bidding. Equivalents may be submitted with the contractor bid proposal and shall be considered as per the Bid Form. |                            |                     |  |  |
| ARTICLE - 25   | DRAWING NO.                | N/A                 |  |  |
|  | SPEC<br>SECTION            | N/A                 |  |  |
| QUESTION: At what elevation is the site work to begin at? LiRo Engineers is handling the BCP Remediation but at what depth are they going to leave the site at? Without an elevation I can only use the soil borings log which is roughly +/- 12".   |                            |                     |  |  |
| ANSWER: The scope of the site work is to follow what is designed in the bid of design has been completed, any changes will be coordinated with will be negotiated.   |                            |                     |  |  |
| ARTICLE - <u>26</u>  | DRAWING NO.                | A251                |  |  |
|  | SPEC<br>Section <u>0</u> 3 | 78100, 078400       |  |  |
| <ul><li>QUESTION:</li><li>1. In regards to the spray fireproofing shown on A-453 detail released for this? If not, what is the basis of design.</li></ul>  | 2, will there be a specifi | cation section      |  |  |

# ANSWER:

details on this page.

1. Refer to specification sections 078100 Applied Fire Protection and revised section 078400 Firestopping.

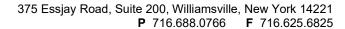
2. As it is shown on A-251, what is the intent behind the hexagonal pattern shown throughout the

2. Drawing sheet A251 should not be part of the drawing set.



| Project _   | Northland Corridor Redevelopment Phase 4 (BUDC)  | _ Addendum No  | o. <u>5</u>  |  |  |  |
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| _   | 631 Northland Avenue, Buffalo, NY  | Contrac  | t  |  |  |  |
| Wendel P  | roject No. <b>432607</b>   | _<br>Date  | 11/07/2025   |  |  |  |
| ADD: Speas such o   | DELETE: Drawing A251 from the drawing set and strike from the drawing index.  ADD: Specification section 078100 Applied Fire Protection issued as part of this addendum and reflected as such on the Table of Contents (TOC).  REPLACE: Specification 078400 with the revised issued as part of this addendum.   |  |  |  |  |  |
| ARTICLE   | - <b>27</b> [  | RAWING NO.   | N/A  |  |  |  |
|   |  | SPEC<br>SECTION  | 028300   |  |  |  |
| precast pl<br>compliand<br>for contain<br>requirement<br>provide in<br>1. A<br>2. W<br>3. W | N: We understand that the interior walls, catwalks, platform anks etc., contain flaking lead-based paint. To provide accurate with all project requirements, we need comprehensive informent, water management, disposal, testing, documentation ents in regard to removing the washing and removal of the particular formation and clarification on the following: re we required to provide lead testing of wastewater or solid that documentation must we provide regarding lead-contamically are your specific requirements for containing wastewater perations? | rate pricing and ensubration regarding the project of any other project on the project of the pr | re full<br>ne expectations<br>ect-specific<br>A900. Please |  |  |  |
| 1. Cont<br>And  | ractor shall refer to Specification Section 028300 Lead Abate  | ement, specifically, lt  | rem 2.11, A. 1.  |  |  |  |
|   | information is needed. RE&LS is not sure if the question is reations, medical clearance, or if this is related to the materia  |  | quirements,  |  |  |  |
| 3. Cont<br>and I  | ractor shall refer to Specification Section 028300 Lead Abate<br>3.6.  | ement, specifically, li  | em 2.7, A. 7.  |  |  |  |
| ARTICLE   | - <b>28</b>  | DRAWING NO.  | N/A  |  |  |  |
|   |  | SPEC<br>SECTION  | 028300   |  |  |  |
| QUESTIC   | N: Are there existing floor drains that may or may not be us   |  |  |  |  |  |
| ANSWER  | :: Contractor shall refer to Specification Section 028300 Lead   | d Abatement, specific  | cally, Item 2.8  |  |  |  |

Environmental Ground Protection.





| Project Northland Corridor Re  | edevelopment Phase 4 (BUDC) Addeno  | dum No. <u>5</u> |  |
|--|---|------------------|--|
| 631 Northland Avenue   | e, Buffalo, NY  | Contract         |  |
| Wendel Project No.   | 432607  | Date11/07/202    |  |
|  |   |                  |  |
| ARTICLE - 29   | DRAWING NO  | D. <b>N/A</b>    |  |
|  | SPE(<br>SECTION   | ~                |  |
| QUESTION: What secondary cor   | ntainment systems are required (berms, barriers, o  | catch basins)?   |  |
|  | means and methods and is up to the Contractor, pment system in accordance with federal, state and |                  |  |
| ARTICLE - 30   | DRAWING NO  | D. <b>N/A</b>    |  |
|  | SPE(<br>SECTIOI   | ~                |  |
| QUESTION: Are there specific requirements for the temporary storage of collected wastewater on-site?  ANSWER: All waste generated from disturbance of lead-based materials shall be segregated from general construction debris. |   |                  |  |
| ARTICLE - 31   | _ DRAWING NO  | D. <b>N/A</b>    |  |
|  | SPECTION SECTION  |                  |  |
| QUESTION: What are the maxim   | um allowable storage volumes and durations?   |                  |  |
| ANSWER: As in accordance with  | federal, state and local laws   |                  |  |
| ARTICLE - 32   | DRAWING NO  | D. <b>N/A</b>    |  |
|  | SPE<br>SECTION  |                  |  |
| QUESTION: Are vacuum recovery systems rec  | quired, or are other collection methods acceptable  | ?                |  |

ANSWER: Contractor shall refer to Specification Section 028300 Lead Abatement, specifically, Item 2.7

DISTURBANCE TO PAINTED SURFACES, B. and C.



| Project Northland Corridor Redevelopment Phase 4 (BUDC)  | Addendum No.                  | 5          |  |
|--|-------------------------------|------------|--|
| 631 Northland Avenue, Buffalo, NY  | Contract                      |            |  |
| Wendel Project No. 432607  | Date                          | 11/07/2025 |  |
|  |                               |            |  |
| ARTICLE - 33   | DRAWING NO.                   | N/A        |  |
| OUTOTION.  | SPEC                          | 000000     |  |
| QUESTION:  Are we required to treat the wastewater on-site, or is off-site dispo               | SECTION                       | 028300     |  |
|  | •                             |            |  |
| What wastewater characterization/testing is required before dispos                             | sal?                          |            |  |
| What is the expected classification of the wastewater (hazardous v                             | vs. non-hazardous)?           |            |  |
| ANSWER: Contractor shall refer to Specification Section 028300 I                               | ead Abatement Item 2.1        | 1 PRE-     |  |
| DISPOSAL TESTING, A.1. and 2. And Item 2.12 DISPOSAL OF L                                      |                               |            |  |
| A. and B.  |                               |            |  |
| ADTIQUE 04   | DDAMING NO                    | N//A       |  |
| ARTICLE - <u>34</u>  | DRAWING NO.                   | N/A        |  |
| QUESTION:  | SPEC<br>SECTION               | N/A        |  |
| If on-site treatment is required, what are the discharge standards v                           | ·                             |            |  |
| If off-site disposal is required, are there specific approved disposal facilities we must use? |                               |            |  |
|  | radinate we made acc.         |            |  |
| ANSWER: The Contractor is responsible for following this Specification, as we                  | ell as, all applicable local, | state,     |  |
| and federal laws and regulations regarding lead.   |                               |            |  |
|  |                               |            |  |
| ARTICLE - <u>35</u>  | DRAWING NO.                   | N/A        |  |
| 0.150510.1   | SPEC                          |            |  |
| QUESTION:  Are we required to provide waste manifests and disposal documer                     | SECTION                       | 028300     |  |
| Are we required to provide waste mannests and disposal documentation:                          |                               |            |  |
| <b>ANSWER</b> : Contractor shall refer to Specification Section 028300, CONDITIONS, G.         | specifically, 1.3 PROJEC      | Т          |  |
| CONDITIONS, G.   |                               |            |  |
| ARTICLE - 36   | DRAWING NO.                   | N/A        |  |
|  | SPEC SPEC                     | IVA        |  |
|  | SECTION                       | 028300     |  |

- 1. How must we manage paint chips, flakes, and sediment removed during cleaning?
- 2. Are there specific containers or packaging requirements for lead-based products?

**ANSWER**: Contractor shall refer to Specification Section 028300 Lead Abatement, specifically, Item 2.4 SIGNS AND LABELS, and Item 2.7 DISTURBANCE TO PAINTED SURFACES, B. and C.

QUESTION:



| Project _Northland Corridor Re  | development Phase 4 (BUDC)   | Addendum           | No <b>5</b>                  |
|---|--|--------------------|------------------------------|
| 631 Northland Avenue  | , Buffalo, NY  | Cont               | tract                        |
| Wendel Project No.  | 432607   |                    | Date 11/07/2025              |
|   |  |                    |                              |
| ARTICLE - 37  | D  | RAWING NO.         | N/A                          |
|   |  | SPEC<br>SECTION    | 028300                       |
| QUESTION:<br>What are the disposal requirement  | ts for lead-contaminated solid waste   | ?                  |                              |
| Must we provide documentation for   | r solid waste disposal?  |                    |                              |
| ANSWER: Contractor shall refer to Specification Section 028300 Lead Abatement, specifically, item 2.12 DISPOSAL OF LEAD PAINT AND RELATED DEBRIS. |  |                    |                              |
| ARTICLE - 38  |  | RAWING NO          | HM Series, A900,<br>S101-A-B |
|   |  | SPEC               | N// A                        |
|   |  | SECTION _          | N/A                          |
| directed in Haz Mat drawings and  | ting interior structural steel is to have specs. No structural steel is indicate | ed to have finishe | s removed on the             |

directed in Haz Mat drawings and specs. No structural steel is indicated to have finishes removed on the HM drawings. Only notes 4&5 on S101A-B and note 5 on S103A-B indicate to have the coatings removed. The schedule on A900 also indicates that the interior structural steel is to be prepped and painted. Based on the HM drawing notes the coating on the structural steel contains led based paint. Please clarify how the interior structural steel is to be prepped for paint if it contains lead. Section 099005 3.4 8 indicates using an abrasive cleaner and or sanding. Does all the existing lead-based paint on the

interior structural steel need to be removed to meet the prep for paint requirement? If this is the case, would this fall under lead removals?

# ANSWER:

Not all structural steel coatings are required to be removed as they have been identified as lead containing and not lead based as indicated on the Hazmat drawings.

The coatings on the structural steel are lead-containing, not lead based.

Surface preparation of existing structural steel shall be in accordance with the coating manufacturer's written specifications and recommendations. Reference architectural documents for coating/painting/finishing information.

If contractors' "means and methods" include abrasive methods for removal of lead containing or lead based coatings/paint, this shall be completed within a negative pressure containment in accordance with 29 CFR 1926.62.



| Project Northland Corridor Redevelopment Phase 4 (BUDC) 631 Northland Avenue, Buffalo, NY  | _ Addendum I<br>Contr | -                  |
|--|-----------------------|--------------------|
| Wendel Project No. 432607  | _                     | ate 11/07/2025     |
| ARTICLE 39   | RAWING NO             | N/A                |
|  | SPEC<br>SECTION       | N/A                |
| <b>QUESTION</b> : Light pole base detail indicates depth to bedrock. Based 11.5' deep. Can you confirm this to be depths of the light pole base?   | on boring SB-5-24     | 4 auger refusal is |
| ANSWER: Confirmed, light pole bases the depth of bedrock.  |                       |                    |
| Reference geotechnical report for known stratigraphic subgrade soil/b contractor shall be responsible to provide certified light post foundatio for the engineer's review and acceptance through the submittal procession foundations. | ns calculations and   | d design sketches  |
|  |                       |                    |
| ARTICLE 40 DR  | AWING NO.             | S103A              |
|  | SPEC<br>SECTION       | N/A                |
| QUESTION: Detail #5 on S103A shows Concentrated Loads on Roof Trusses. Wh to be on the structural drawings?  | ere exactly is Deta   | il #5 supposed     |
| ANSWER: Detail 05/S103A applicable at any location where concentrated point I Reference General Note #9/S000 "Contractor shall coordinate structu drawings and specifications, and with the work of all other trades."                 |                       |                    |
|  |                       |                    |
| ARTICLE 41 DR  | AWING NO.             | C502               |
|  | SPEC<br>SECTION       | N/A                |
| QUESTION: Site Bollards (31 Total) shown in detail on C502 are 8'. Per National G Transformer pads, Generator Pads etc. call for 9' and to be 4' o/c. Wh   |                       |                    |

# ANSWER:

Requirements.

Per national grid ESB759B bollards should be 9', 5' above grade 4' below. However, also per ESB759B there is no reference to 4' OC as it reads "The number, type (galvanized or steel) and locations of bollards shall be determined by distribution design/planning...". The bollards around the ARU unit on the south end and at the overhead doors on the west side do not need to meet national grid requirements.

bollards around the pads at this 9' length. Please revise quantity of site bollards vs National Grid



Project Northland Corridor Redevelopment Phase 4 (BUDC) Addendum No. **5** Contract -631 Northland Avenue, Buffalo, NY Wendel Project No. 432607 Date 11/07/2025 ARTICLE \_\_ **42** DRAWING NO. N/A SPEC SECTION \_\_\_ N/A QUESTION: 1. Is this contract responsible for identifying and removing material in drums at the interior and exterior of the building? This is not indicated on the drawings, but these drums were present at the walk-through and on the hazmat surveys. 2. Is this contract responsible for identifying and removing material within the Above Ground Storage Tank (AST)? Does it involve removing the AST? If yes, there are many unknowns until it is characterized. 3. Is this contract responsible for identifying what is inside the welded manhole cover in the central portion of the building? Once identified, does the scope address removal/remediation? 4. Is this contract responsible for identifying and remediation of the sump pit and floor drains? 5. Is this contract responsible for testing and treatment of site water discharged as part of this package? ANSWER: Drums that are present during the construction of the phase would require identification and 1. disposal. Identification and disposal shall be performed in accordance with federal, state and local laws. 2. The contractor is responsible for identifying and disposal through waste characterization of the contents of the AST. Contractor shall coordinate with architectural drawings for the removal requirements. 3. Yes. The condition is unknown, and the contractor is responsible for identifying and removal requirements. 4. Yes. 5. Contactor shall refer to Article 3, Answer #2 above in this addendum.



| •  | Avenue Buffele NV  | Addendum No              |              |
|--|--|--------------------------|--------------|
| Wendel Project No.   | Avenue, Buffalo, NY<br>432607                                      | Contrac<br>Date          |              |
| vvender rojest ive.  |  |                          | 11/01/2020   |
| ARTICLE 43   |  | RAWING NO                | N/A          |
|  |  | SPEC                     |              |
| QUESTION:  |  | SECTION                  | N/A          |
| Hardware set 4: Openings 01 and 05 has b                         | oth a Door Closer and a Door Operators o                           | on a single door. Are w  | e to use the |
| door operator and disregar                                       |  |                          |              |
| ANSWER:  | 16 04 105 <del>T</del>   |                          |              |
| The door closer can be rer                                       | moved from 01 and 05. The operator alone                           | e is sufficient.         |              |
|  |  |                          |              |
|  |  |                          |              |
| ARTICLE 44   |  | RAWING NO.               | C502         |
|  |  | SPEC<br>SECTION          | N/A          |
|  |  | SECTION                  | N/A          |
| QUESTION: Please provide details for t                           | the vehicular swing gates.   |                          |              |
| ANSWER:  |  |                          |              |
| Refer to Detail 13, C502 fo                                      | or the vehicle swing gate. The width of the                        |                          |              |
| access drive width dimens fencing.                               | ions requirements. Refer to Addendum 4                             | for specifications on ch | ain-link     |
|  |  |                          |              |
|  |  |                          |              |
| ARTICLE 45   |  | RAWING NOC               | 201, C505    |
|  |  | SPEC<br>SECTION          | N/A          |
|  |  | SECTION                  | IN/A         |
| QUESTION: C201 site utility note #3 ca new proposed hydrant deta | lls out "Fire Hydrant Assembly not used" -<br>ail. Please clarify. | however detail 8/C50     | 5 shows a    |
|  | <b>,</b>   |                          |              |
| ANSWER: A hydrant is not required for                            | or this project; omit detail 8/C505.                               |                          |              |
|  |  |                          |              |
|  |  |                          |              |
|  |  |                          |              |



| Project                         | Northland Corrido                                | r Redevelopment Phase 4 (BUDC)   | ) Addenda           | um No        | 5           |
|---------------------------------|--|--|---------------------|--------------|-------------|
| -                               | 631 Northland Ave                                | ·  | C                   | ontract _    |             |
| Wendel P                        | roject No.                                       | 432607   |                     | Date _       | 11/07/2025  |
| ARTICLE                         | 46   |  | DRAWING NO.         | N            | //A         |
|                                 |  |  | SPEC<br>SECTION _   | 012          | 2100        |
| HM series                       | evised bid form releas<br>s of drawings. Are the | sed with Addenda 3, Allowance #5 is<br>e Haz mat items referenced in notes<br>ed out on A900, part of this allowan | 4&5 on S103A&B      |              |             |
|                                 | r shall refer to Allowa                          | ance 5 description which includes ha<br>Allowances spec section 012100.  | azardous materials  | s such as    | asbestos,   |
|                                 |  |  |                     |              |             |
| ARTICLE                         | 47   |  | DRAWING NO.         | N            | / <b>A</b>  |
|                                 |  |  | SPEC<br>SECTION     | N            | // <b>A</b> |
| QUESTIC<br>What dep<br>on them? | th are the foundation                            | s to be removed at the blast furnace   | e? Is there any add | ditional inf | ormation    |
|                                 | =-   | Article 11 and 14 and the revised d<br>Idendum.  | rawings attached t  | o that add   | lendum,     |
|                                 |  |  |                     |              |             |
| ARTICLE                         | 48   |  | DRAWING NO.         | N            | / <b>/A</b> |
|                                 |  |  | SPEC<br>SECTION     | N            | // <b>A</b> |
|                                 |  |  |                     |              |             |

#### QUESTION:

Window Equivalency Proposal – Wausau INvent Retro Window – was submitted for consideration in lieu of basis of design Winco Windows.

### **ANSWER:**

**Substitution Rejected**. Although the dimensions of the proposed alternative window are close to the dimensions of the basis-of-design window, the profiles are not adequate far from the conditionally approved BOD. The fixed window over the operable window detail has different profiles than the BOD as well.

# **END OF ADDENDUM**

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- 3. PHASE 1 ENVIRONMETAL SITE ASSESSMENT
- 4. LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT
- 5. 2015 PHASE II ENVRIONMENTAL SITE ASSESSMENT BY FISHER ASSOCIATES (FOR INFORMATION)

END OF TABLE OF CONTENTS

### SECTION 085113 - ALUMINUM WINDOWS

# PART 1 GENERAL

#### 1.1 SECTION INCLUDES

- A. Extruded aluminum windows with fixed sash, operating sash, and infill panels.
- B. Factory glazing.
- C. Operating hardware.

# 1.2 RELATED REQUIREMENTS

- A. Section 072500 Weather Barriers: Sealing frame to water-resistive barrier installed on adjacent construction.
- B. Section 088000 Glazing.

# 1.3 REFERENCE STANDARDS

- A. AAMA/WDMA/CSA 101/I.S.2/A440 North American Fenestration Standard/Specification for Windows, Doors, and Skylights.
- B. AAMA CW-10 Care and Handling of Architectural Aluminum from Shop to Site.
- C. AAMA 611 Specification for Anodized Architectural Aluminum.
- D. AAMA 904 Specification for Multi-Bar Hinges in Window Applications.
- E. ASTM B221 Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
- F. ASTM B221M Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric).

# 1.4 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene one week before starting work of this section.

#### 1.5 SUBMITTALS

- A. See Section 013000 Administrative Requirements for submittal procedures.
- B. Grade Substantiation: Prior to submitting shop drawings or starting fabrication, submit one of the following showing compliance with specified grade:
  - 1. Evidence of AAMA Certification.
  - 2. Evidence of WDMA Certification.
  - 3. Evidence of CSA Certification.

4. Test report(s) by independent testing agency itemizing compliance and acceptable to authorities having jurisdiction.

# 1.6 QUALITY ASSURANCE

# 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Comply with requirements of AAMA CW-10.
- B. Protect finished surfaces with wrapping paper or strippable coating during installation. Do not use adhesive papers or sprayed coatings that bond to substrate when exposed to sunlight or weather.

### 1.8 FIELD CONDITIONS

- A. Do not install sealants when ambient temperature is less than 40 degrees F.
- B. Maintain this minimum temperature during and 24 hours after installation of sealants.

# 1.9 WARRANTY

- A. See Section 017800 Closeout Submittals for additional warranty requirements.
- B. Correct defective work within a five year period after Date of Substantial Completion.
- C. Manufacturer Warranty: Provide 5-year manufacturer warranty against failure of glass seal on insulating glass units, including interpane dusting or misting. Include provision for replacement of failed units. Complete forms in Owner's name and register with manufacturer.
- D. Manufacturer Warranty: Provide 5-year manufacturer warranty against excessive degradation of exterior finish. Include provision for replacement of units with excessive fading, chalking, or flaking. Complete forms in Owner's name and register with manufacturer.

# PART 2 PRODUCTS

# 2.1 MANUFACTURERS

- A. Aluminum Window Manufacturers:
  - 1. Basis of Design: Winco Window Company, Inc; Series 3250: www.wincowindow.com.
  - 2. Substitutions: See Section 016000 Product Requirements.

#### 2.2 ALUMINUM WINDOWS

- A. Aluminum Windows: Extruded aluminum frame and sash, factory fabricated, factory finished, with operating hardware, related flashings, and anchorage and attachment devices.
  - 1. Frame Depth: 3-1/2 inch.
  - 2. Operable Units: Double weatherstripped.
  - 3. Provide factory-glazed units.

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- 4. Fabrication: Joints and corners flush, hairline, and weatherproof, accurately fitted and secured; prepared to receive anchors; fasteners and attachments concealed from view; reinforced as required for operating hardware and imposed loads.
- 5. Perimeter Clearance: Minimize space between framing members and adjacent construction while allowing expected movement.
- 6. Movement: Accommodate movement between window and perimeter framing and deflection of lintel, without damage to components or deterioration of seals.
- 7. System Internal Drainage: Drain to the exterior by means of a weep drainage network any water entering joints, condensation occurring in glazing channel, and migrating moisture occurring within system.
- 8. Thermal Movement: Design to accommodate thermal movement caused by 180 degrees F surface temperature without buckling stress on glass, joint seal failure, damaging loads on structural elements, damaging loads on fasteners, reduction in performance or other detrimental effects.

# B. Fixed, Non-Operable Type:

- 1. Construction: Thermally broken.
- 2. Glazing: Double; clear; transparent.
- 3. Exterior Finish: Class I natural anodized.
- 4. Interior Finish: Class I natural anodized.

# C. Outswinging Casement Type:

- 1. Construction: Thermally broken.
- 2. Glazing: Double; clear; transparent.
- 3. Exterior Finish: Class I natural anodized.
- 4. Interior Finish: Class I natural anodized.

# 2.3 PERFORMANCE REQUIREMENTS

- A. Grade: AAMA/WDMA/CSA 101/I.S.2/A440 requirements for specific window type:
  - 1. Performance Class (PC): R.

# 2.4 COMPONENTS

- A. Frames: Sizes, styles and configurations as indicated on the drawings.
- B. Operable Sash Weatherstripping: Wool pile; permanently resilient, profiled to achieve effective weather seal.
- C. Glazing Materials: See Section 088000.
- D. Sealant for Setting Sills and Sill Flashing: Non-curing butyl type.

# 2.5 MATERIALS

A. Extruded Aluminum: ASTM B221 (ASTM B221M), 6063 alloy, T6 temper.

#### 2.6 HARDWARE

A. Locks:

- 1. Cam type locking handles; white bronze alloy with US25D brushed finish.
- B. Operator:
  - 1. 4 –bar arms conforming to AAMA 904.
  - 2. Key release limit arms.
- C. Hinge:
  - 1. 5 knuckle butt hinge with stainless steel pin.

## 2.7 FINISHES

A. Class I Natural Anodized Finish: AAMA 611 AA-M12C22A41, clear anodic coating not less than 0.7 mil thick.

#### PART 3 EXECUTION

# 3.1 EXAMINATION

A. Verify that wall openings and adjoining water-resistive barrier materials are ready to receive aluminum windows; see Section 072500.

#### 3.2 PRIME WINDOW INSTALLATION

- A. Install windows in accordance with manufacturer's instructions.
- B. Attach window frame and shims to perimeter opening to accommodate construction tolerances and other irregularities.
- C. Align window plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent work.
- D. Install sill and sill end angles.
- E. Provide thermal isolation where components penetrate or disrupt building insulation. Pack fibrous insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.
- F. Install operating hardware not pre-installed by manufacturer.
- G. Install glass and infill panels in accordance with requirements; see Section 088000.

#### 3.3 TOLERANCES

A. Maximum Variation from Level or Plumb: 1/16 inches every 3 ft non-cumulative or 1/8 inches per 10 ft, whichever is less.

#### 3.4 ADJUSTING

A. Adjust hardware for smooth operation and secure weathertight closure.

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END OF SECTION 085113

# SECTION 087100 - FINISH HARDWARE

#### PART 1 - GENERAL

# 1.01 RELATED DOCUMENTS

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

#### 1.02 DESCRIPTION OF WORK

- A. Definition: "Finish Hardware" includes items known commercially as finish hardware which are required for swing, sliding and folding doors, except special types of unique and non-matching hardware specified in the same section as the door and door frame.
- B. Work generally includes the provision of finish hardware for all new doors.
- C. Types of finish hardware required include the following:
  - 1. Hinges
  - 2. Lock cylinders and keys
  - 3. Lock and latch sets
  - 4. Bolts
  - 5. Closers
  - 6. Miscellaneous door control devices
  - 7. Door trim units
  - 8. Protection plates
  - 9. Weatherstripping for exterior doors
  - 10. Thresholds

# 1.03 QUALITY ASSURANCE

- A. Manufacturer: Obtain each type of hardware (latch and lock sets, hinges, closers, etc.) from a single manufacturer, although several may be indicated as offering products complying with requirements.
- B. Supplier: A recognized architectural finish hardware supplier, with warehousing facilities, who has been furnishing hardware in the project's vicinity for a period of no less than 3 years, and who is, or who employs an experienced architectural hardware consultant.

# 1.04 SUBMITTALS

A. Product Data: Submit manufacturer's technical product data for each item of hardware. Include whatever information may be necessary to show compliance with requirements, and include instructions for installation and for maintenance of operating parts and finish.

FINISH HARDWARE 087100-1

- B. Hardware Schedule: Submit final hardware schedule in manner indicated below. Coordinate hardware with doors, frames and related work to ensure proper size, thickness, hand, function and finish of hardware.
- C. Final Hardware Schedule Content: Based on finish hardware indicated, organize hardware schedule into "hardware sets" indicating complete designations of every item required for each door or opening. Include the following information:
  - 1. Type, style, function, size and finish of each hardware item.
  - 2. Name and manufacturer of each item.
  - 3. Location of hardware set cross-referenced to indications on drawings both on floor plans and in door and frame schedule.
  - 4. Explanation of all abbreviations, symbols, codes, etc., contained in schedule.
  - 5. Mounting locations for hardware.
  - 6. Door and frame sizes and materials.
  - 7. Keying information.
- D. Submittal Sequence: Submit schedule at earliest possible date particularly where acceptance of hardware schedule must precede fabrication of other work (e.g., hollow metal frames) which is critical in the project construction schedule. Include with schedule the product data, samples, shop drawings of other work affected by finish hardware, and other information essential to the coordinated review of hardware schedule.
- E. Keying Schedule: Submit separate detailed schedule indicating clearly how the Owner's final instructions on keying of locks has been fulfilled.
- F. Templates: Furnish hardware templates to each fabricator of doors, frames and other work to be factory-prepared for the installation of hardware. Upon request, check shop drawings of such other work, to confirm that adequate provisions are made for proper location and installation of hardware.

## 1.05 PRODUCT HANDLING

- A. Tag each item or package separately, with identification related to final hardware schedule, and include basic installation instructions with each item or package.
- B. Packaging of hardware, is responsibility of finish hardware supplier. As material is received by hardware supplier from various manufacturers, sort and repackage in containers clearly marked with appropriate hardware set number to match set numbers of approved hardware schedule. Two or more identical sets may be packed in same container.
- C. Inventory hardware jointly with representatives of hardware supplier and hardware installer until each is satisfied that count is correct.
- D. Deliver individually packaged hardware items at the proper times to the proper locations (shop or project site) for installation.
- E. Provide secure lock-up for hardware delivered to the project, but not yet installed. Control handling and installation of hardware items which are not immediately replaceable, so that completion of the work will not be delayed by hardware losses, both before and after installation.

FINISH HARDWARE 087100-2

## PART 2 - PRODUCTS

#### 2.01 SCHEDULED HARDWARE

- A. Requirements for design, grade, function, finish, size and other distinctive qualities of each type of finish hardware are indicated in the Hardware Schedule at the end of this section. Products are identified by using manufacturer's hardware numbers.
- B. Manufacturer's Product Designations: One manufacturer is listed for each hardware type required. Provide either the product designated, or, comparable approved product of one of the other manufacturers which comply with requirements including those specified elsewhere in this section.

#### 2.02 MATERIALS AND FABRICATION

#### General:

- A. Hand of door: Drawings show direction of slide, swing or hand of each door leaf. Furnish each item of hardware for proper installation and operation of door movement as shown.
- B. Base Metals: Produce hardware units of basic metal and forming method indicated, using manufacturer's standard metal alloy, composition, temper and hardness, but in no case of lesser (commercially recognized) quality than specified for applicable hardware units by applicable ANSI A156 series standard for each type hardware item and with ANSI A156.18 for finish designations indicated. Do not furnish "optional" materials or forming methods for those indicated, except as otherwise specified.
- C. Fasteners: Provide hardware manufactured to conform to published templates, generally prepared for machine screw installation. Do not provide hardware which has been prepared for self-tapping sheet metal screws, except as specifically indicated.
- D. Furnish screws for installation, with each hardware item. Provide Phillips flat-head screws except as otherwise indicated. Finish exposed (exposed under any condition) screws to match hardware finish or, if exposed in surfaces of other work, to match finish of such other work, including "prepared for paint" in surfaces to receive painted finish.
- E. Provide concealed fasteners for hardware units which are exposed when door is closed, except to extent no standard units of type specified are available with concealed fasteners.

## 2.03 HINGES, BUTTS AND PIVOTS

- A. Templates: Provide only template-produced units.
- B. Screws: Furnish Phillips flat-head or machine screws for installation of units. Finish screw heads to match surface of hinges or pivots.

## 2.04 LOCKS, CYLINDERS AND KEYING

- A. General: Supplier will meet with Owner to finalize keying requirements and obtain final instructions in writing.
- B. Locksets: Locksets shall be Extra Heavy Duty mortise or cylindrical lever-set type. Function shall be as indicated in hardware sets. Trim shall be lever handle (handicapped accessible).
- C. Standard System: Except as otherwise indicated, provide new cylinder to match Owner's preferred keying system.
- D. Metals: Construct lock cylinder parts from brass/ bronze, stainless steel or nickel silver.
- E. Comply with Owner's instructions for master keying and, except as otherwise indicated, provide individual change key for each lock which is not designated to be keyed alike with a group of related locks.
  - 1. Keys shall be plain bow (no identification), and shall be stamped "DO NOT DUPLICATE."
- F. Key Material: Provide keys of nickel silver only.
- G. Key Quantity: Furnish 3 change keys for each lock.
  - 1. Deliver keys to Owner's representative.

#### 2.05 LOCKS, LATCHES AND BOLTS

- A. Strikes: Provide manufacturer's standard strike for all latch or lock bolts, with curved lip extended to protect frame, finished to match hardware set.
- B. Lock Throw: Provide 1/2" minimum throw of latch and deadbolt used on pairs of doors. Comply with UL requirements for throw of bolts and latch bolts on rated fire openings.
- C. Flush Bolt Heads: Minimum of 1/2" diameter rods of bronze with minimum 12" long rod for doors up to 7'-2" in height.

#### 2.06 CLOSERS AND DOOR CONTROL DEVICES

- A. Size of Units: Except as otherwise specifically indicated, comply with the manufacturer's recommendations for size of door control unit, depending upon the size of door, exposure to weather and anticipated frequency of use.
- B. Provide parallel arms for all overhead closers, except as otherwise indicated.

#### 2.07 WALL BUMPERS AND DOOR STOPS

A. Bumpers and stops are not noted on schedule. Provide wall bumper at every door. Provide floor bumper where wall bumpers cannot be used. Provide grey resilient parts for bumpers. Finish US26D or US32D. Use risers and extenders of same finish as hardware.

#### 2.08 DOOR TRIM UNITS

- A. Fasteners: Provide manufacturer's standard exposed fasteners for door trim units (kick plates, edge trim, and similar units); either machine screws of self-tapping screw.
  - 1. Plates: US32D

#### 2.09 WEATHERSTRIPPING

- A. General: Provide continuous weatherstripping at each edge of exterior door leaves where indicated. Provide type, sizes and profiles shown or scheduled. Provide non-corrosive fasteners as recommended by manufacturer for application indicated.
- B. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strip is easily replaceable and readily available from stocks maintained by manufacturer.
- C. Weatherstripping at Jambs and Heads: Provide bumper- type resilient insert and metal retainer strips, surface-applied unless shown as mortised or semi-mortised, of clear anodized aluminum and EPDM/Sponge Neoprene, and adjustable astragals as stiles.
- D. Weatherstripping at Door Bottoms: Provide door bottom consisting of contact type resilient insert and metal housing for application to door bottom, of design and size shown; of extruded bronze solid neoprene wiper sweep seal.

# 2.10 THRESHOLDS

A. General: Except as otherwise indicated provide standard aluminum threshold as shown or scheduled.

## 2.11 RAIN DRIPS

A. Provide bronze anodized aluminum rain drips at all exterior outswinging door heads, extending full width of frame whether scheduled or not.

## 2.12 HARDWARE FINISHES

- A. Provide matching finishes for hardware units at each door or opening, to the greatest extent possible, and except as otherwise indicated. Match items to the manufacturer's standard finish for the latch and lock set (or push-pull units if no latch-lock sets) for color and texture.
- B. Provide finishes which match those established by BHMA or, if none established, match the Architect's sample.

C. Finish: US26D.

## PART 3 - EXECUTION

#### 3.01 INSTALLATION

- A. Mount hardware units at heights indicated in "Recommended Locations for Builders Hardware for Standard Steel Doors and Frames" by the Door and Hardware Institute, except as specifically indicated or required to comply with governing regulations, and except as may be otherwise directed by Architect.
- B. Install each hardware item in compliance with the manufacturer's instructions and recommendations. Wherever cutting and fitting is required to install hardware onto or into surfaces which are later to be painted or finished in another way, coordinate removal, storage and reinstallation or application of surface protections with finishing work specified in the Division-9 sections. Do not install surface-mounted items until finishes have been completed on the substrate.
- C. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
- D. Drill and countersink units which are not factory- prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.
- E. Set thresholds for exterior doors in full bed of butyl-rubber or polyisobutylene mastic sealant.

#### 3.02 ADJUST AND CLEAN

- A. Adjust and check each operating item of new hardware, ensure proper operation or function of every unit. Replace units which cannot be adjusted to operate freely and smoothly as intended for the application made.
- B. Clean adjacent surfaces soiled by hardware installation.
- C. Final Adjustment: Wherever hardware installation is made more than one month prior to acceptance or occupancy of a space or area, return to the work during the week prior to acceptance or occupancy, and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.

Note: Door Schedule also indicates miscellaneous hardware requirements which are not included in the hardware schedule.

#### PART 4 - SCHEDULE OF HARDWARE

#### 4.00 General Notes

- A. Provide 7" high by (door width minus 2") wide stainless steel plate at all doors where "KICKPLATE" is indicated on schedule.
- B. Provide 28" high by (door width minus 2") wide stainless steel plate at all doors where "ARMORPLATE" is indicated on schedule.
- C. Provide manufacturer's standard embossed tactile warning strip at all doors where "TACTILE WARNING" is indicated on schedule, whether or not indicated on hardware sets, and at all hazardous areas. Hazardous areas include custodian spaces, storage, boiler, electrical and fire pump rooms, and mechanical rooms, trash rooms, labs and prep rooms.
- D. General: Provide hardware for each door to comply with requirements of Section "Finish Hardware", hardware set numbers indicated in door schedule, and in the following schedule of hardware sets.
- E. The following schedule lists typical openings. It is the responsibility of the Finish Hardware Supplier to visit the site, examine the drawings and door schedule and provide all necessary hardware as shown. Where specified hardware is not indicated or scheduled for a particular opening, provide the same hardware required for similar doors, openings and conditions elsewhere in the building. It shall be the responsibility of the Contractor and finish hardware supplier to furnish and install all such hardware, whether or not indicated herein.
- F. Quantities shown in these hardware sets represent basic requirements for each leaf. The finish hardware supplier shall be responsible for adjustments to quantities to suit field conditions or these specifications.
- G. Schedule indicates Basis of Design products. Subject to compliance with requirements, provide specified product, or comparable product from different manufacturers that meet the same function, regulatory requirements, industry standards, quality and aesthetics.

McKinney MCK-12HD Aluminum Continuous Geared Hinge

## 4.01 Hardware Set Number 1 (Door No. 7):

Continuous Hinges

Set Top and Bottom

2

1

| _ | Commuous imiges   | Welkindey Welk-1211D Adminiant Continuous Geared Thinge |
|---|-------------------|---|
| 1 | Lockset           | Sargent 8204 L, LS US26D                                |
| 2 | Door Closers      | LCN 4040XP CUSH-N-STOP ARM                              |
| 1 | Set Head and Jamb |   |
|   | Weatherstripping  | Pemko 316 AS  |
| 1 | Vertical Astragal | Pemko 355 AS, interrupt at lockguard                    |
| 1 | Threshold         | Pemko 253X3 A FG  |
| 2 | Door Sweeps       | Pemko 345 A NB  |
| 2 | Kickplates        | Ives 8400   |
| 1 | Lockguard         | Ives LG10   |
|   |                   |   |

1

Flush Bolts Ives FB51P

4.02 Hardware Set Number 2 (Doors No. 2, 3, 4, 6, 9, and 10):

| 1 | Continuous Hinge  | McKinney MCK-12HD Aluminum Continuous Geared Hinge |
|---|-------------------|--|
| 1 | Exit Device       | Sargent 8913 US26D, ETL                            |
| 1 | Lockguard         | Ives   |
| 1 | Door Closer       | LCN 4040 CUSH                                      |
| 1 | Armorplate        | Rockwood   |
| 1 | Set Head and Jamb |  |
|   | Weatherstripping  | Pemko 316 AS PK                                    |
| 1 | Threshold         | Pemko 253X3 A FG                                   |

Pemko 345 A NB

4.03 Hardware Set Number 3 (Door No. 8, 12, 13 and 14):

Door Sweep

| 1 | Continuous Hinge | McKinney MCK-12HD Aluminum Continuous Geared Hinge |
|---|------------------|--|
| 1 | Exit Device      | Sargent 8913 US26D, ETL                            |
| 1 | Door Closer      | LCN 4040 CUSH                                      |
| 1 | Armorplate       | Rockwood   |
| 1 | Threshold        | Pemko 1547 A                                       |
| 3 | Silencers        |  |

4.04 Hardware Set Number 4 (Doors No. 1 and 5):

| 1<br>1 | Continuous Hinge<br>Automatic | McKinney MCK-12HD Aluminum Continuous Geared Hinge                            |
|--------|-------------------------------|---|
|        | Door Operator                 | See Section 087113. Coordinate operation of electric strike and door operator |
| 1      | Exit Device                   | Sargent 8913 US26D, ETL   |
| 1      | Electric Strike               | Folger Adam 310 fail secure 24V – 630   |
|        |                               | with control wiring and transformer   |
| 1      | Kickplate                     | Ives 8400   |
| 1      | Set Head and Jamb             |   |
|        | Weatherstripping              | Pemko 316 AS  |
| 1      | Threshold                     | Pemko 252X3 A   |
| 1      | Door Sweep                    | Pemko 345 A NB  |

4.05 Hardware Set Number 5 (Doors No. 04, 15, 16, 18, 20, 22 and 26):

-1 Cylinder

END OF SECTION 087100

## SECTION 075400 - THERMOPLASTIC MEMBRANE ROOFING

## PART 1 GENERAL

#### 1.1 SECTION INCLUDES

- A. Adhered system with thermoplastic roofing membrane.
- B. Insulation, flat and tapered.
- C. Vapor retarder.
- D. Cover boards.
- E. Flashings.
- F. Roofing stack boots and walkway pads.

## 1.2 RELATED REQUIREMENTS

#### 1.3 REFERENCE STANDARDS

- A. ASTM C1177/C1177M Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing.
- B. ASTM C1289 Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board.
- C. ASTM D4263 Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method.
- D. ASTM D6878/D6878M Standard Specification for Thermoplastic Polyolefin-Based Sheet Roofing.
- E. ASTM F2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes.
- F. FM (AG) FM Approval Guide.
- G. NRCA (RM) The NRCA Roofing Manual.
- H. NRCA (WM) The NRCA Waterproofing Manual.

## 1.4 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meeting: Convene one week before starting work of this section.
  - 1. Review preparation and installation procedures and coordinating and scheduling required with related work.

## 1.5 SUBMITTALS

- A. See Section 013000 Administrative Requirements for submittal procedures.
- B. Product Data: Provide data indicating membrane materials, flashing materials, insulation, vapor retarder, surfacing, and fasteners.
- C. Shop Drawings: Submit drawings that indicate joint or termination detail conditions, conditions of interface with other materials, and setting plan for tapered insulation.
- D. Manufacturer's Installation Instructions: Indicate membrane seaming precautions and perimeter conditions requiring special attention.
- E. Manufacturer's Field Reports: Indicate procedures followed, ambient temperatures, humidity, wind velocity during application, and supplementary instructions given.
- F. Manufacturer's qualification statement.
- G. Installer's qualification statement.
- H. Warranty Documentation:
  - 1. Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
  - 2. Submit installer's written verification that installation complies with warranty conditions for waterproof membrane.

# 1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum three years of documented experience.
- B. Installer Qualifications: Company specializing in performing work of this section with at least three years of documented experience.

# 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in manufacturer's original containers, dry and undamaged, with seals and labels intact, unless otherwise indicated.
- B. Store materials in weather protected environment, clear of ground and moisture.
- C. Ensure storage and staging of materials does not exceed static and dynamic load-bearing capacities of roof decking.
- D. Protect foam insulation from direct exposure to sunlight.

# 1.8 FIELD CONDITIONS

- A. Do not apply roofing membrane during unsuitable weather.
- B. Do not apply roofing membrane when ambient temperature is below 40 degrees F or above 90 degrees F.

- C. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.
- D. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.
- E. Schedule applications so that no partially completed sections of roof are left exposed at end of workday.

# 1.9 WARRANTY

- A. See Section 017800 Closeout Submittals for additional warranty requirements.
- B. System Warranty: Provide manufacturer's system warranty agreeing to repair or replace roofing that leaks or is damaged due to wind or other natural causes.
  - 1. Warranty Term: 20 years.
  - 2. For repair and replacement include costs of both material and labor in warranty.
  - 3. Exceptions are not Permitted:
    - a. Damage due to roof traffic.
    - b. Damage due to wind speed greater than 56 miles per hour but less than 90 miles per hour.

#### PART 2 PRODUCTS

# 2.1 MANUFACTURERS

- A. Thermoplastic Polyolefin (TPO) Membrane Roofing Materials:
  - 1. Basis of Design: Carlisle SynTec Systems; Sure-Weld TPO: www.carlisle-syntec.com.
  - 2. Elevate: www.holcimelevate.com.
  - 3. Johns Manville: www.jm.com.
  - 4. Substitutions: See Section 016000 Product Requirements.
- B. Insulation:
  - 1. Carlisle SynTec Systems; SecurShield Insulation: www.carlisle-syntec.com/#sle.
  - 2. Johns Manville: www.jm.com/#sle.
  - 3. Owens Corning Corporation: www.owenscorning.com/en-us.

## 2.2 ROOFING

- A. Thermoplastic Membrane Roofing: One ply membrane, fully adhered, over insulation.
- B. Acceptable Insulation Types Constant Thickness Application:
  - 1. Minimum 2 layers of polyisocyanurate board.
- C. Acceptable Insulation Types Tapered Application:
  - 1. Tapered polyisocyanurate board.

# 2.3 MEMBRANE ROOFING AND ASSOCIATED MATERIALS

A. Membrane Roofing Materials:

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- 1. TPO: Thermoplastic polyolefin (TPO) complying with ASTM D6878/D6878M, sheet contains reinforcing fabrics or scrims.
  - a. Thickness: 60 mil, 0.060 inch, minimum.
- 2. Sheet Width: Factory fabricated into widest possible sheets.
- 3. Color: White.
- B. Seaming Materials: As recommended by membrane manufacturer.
- C. Vapor Retarder: Material approved by roof manufacturer complying with requirements of fire rating classification; compatible with roofing and insulation materials.
  - 1. Fire-retardant adhesive.
- D. Flexible Flashing Material: Same material as membrane.

#### 2.4 COVER BOARDS

- A. Cover Boards: Glass-mat faced gypsum panels complying with ASTM C1177/C1177M.
  - 1. Thickness: 1/2 inch, fire-resistant.
  - 2. Products:
    - a. Georgia-Pacific; DensDeck: www.densdeck.com/#sle.
    - b. Gold Bond Building Products, LLC provided by National Gypsum Company; DEXcell Glass Mat Roof Board: www.goldbondbuilding.com/#sle.
    - c. USG Corporation; Securock: www.usg.com/#sle.

d.

e. Substitutions: See Section 016000 - Product Requirements.

## 2.5 INSULATION

- A. Polyisocyanurate (ISO) Board Insulation: Rigid cellular foam, complying with ASTM C1289.
  - 1. Classifications:
    - a. Type II: Faced with either cellulosic facers or glass fiber mat facers on both major surfaces of the core foam.
      - 1) Class 1 Faced with glass fiber reinforced cellulosic facers on both major surfaces of the core foam.
      - 2) Compressive Strength: Classes 1-2-3, Grade 2, 20 psi (138 kPa), minimum.
  - 2. Board Size: 48 by 48 inches.
  - 3. Board Thickness: 3.0 inches.
  - 4. Tapered Board: Slope as indicated; minimum thickness 1/4 inch; fabricate of fewest layers possible.
  - 5. Board Edges: Square.

# 2.6 ACCESSORIES

- A. Stack Boots: Prefabricated flexible boot and collar for pipe stacks through membrane; same material as membrane.
- B. Insulation Joint Tape: Glass fiber reinforced type as recommended by insulation manufacturer, compatible with roofing materials; 6 inches wide; self adhering.
- C. Insulation Fasteners: Appropriate for purpose intended and approved by roofing manufacturer.

- D. Membrane Adhesive: Water based, as recommended by membrane manufacturer.
- E. Surface Conditioner for Adhesives: Compatible with membrane and adhesives.
- F. Insulation Adhesive: As recommended by insulation manufacturer.
- G. Sealants: As recommended by membrane manufacturer.

#### PART 3 EXECUTION

#### 3.1 EXAMINATION

- A. Verify that surfaces and site conditions are ready to receive work.
- B. Verify deck is supported and secure.
- C. Verify deck is clean and smooth, flat, free of depressions, waves, or projections, properly sloped and suitable for installation of roof system.
- D. Verify deck surfaces are dry and free of snow or ice.
- E. Verify that roof openings, curbs, and penetrations through roof are solidly set, and cant strips are in place.

## 3.2 PREPARATION - CONCRETE DECK

- A. Verify adjacent precast concrete roof members do not vary more than 1/4 inch in height. Verify grout keys are filled flush.
- B. Fill surface honeycomb and variations with latex filler.
- C. Do not begin work until elevated concrete substrate has cured at least 28 days and moisture content is five percent or less.
  - 1. Test as Follows:
    - a. Concrete Moisture Content: No beading water under plastic after 16 hours when tested in accordance with ASTM D4263.
    - b. Relative Humidity in Concrete: Not greater than 75 percent when tested in accordance with ASTM F2170.

# 3.3 INSTALLATION, GENERAL

- A. Perform work in accordance with manufacturer's instructions, NRCA (RM), and NRCA (WM) applicable requirements.
- B. Do not apply roofing membrane during cold or wet weather conditions.
- C. Do not apply roofing membrane when ambient temperature is outside the temperature range recommended by manufacturer.
- D. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.

- E. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.
- F. Coordinate this work with installation of associated counterflashings installed by other sections as the work of this section proceeds.

## 3.4 INSTALLATION - VAPOR RETARDER AND INSULATION, UNDER MEMBRANE

- A. Install vapor retarder to deck surface with adhesive in accordance with manufacturer's instructions.
  - 1. Extend vapor retarder under cant strips and blocking to deck edge.
  - 2. Install flexible flashing from vapor retarder to air seal material of wall construction, lap and seal to provide continuity of the air barrier plane.
- B. Ensure vapor retarder is clean and dry, continuous, and ready for application of insulation.
- C. Attachment of Insulation: Embed each layer of insulation in adhesive in full contact, in accordance with roofing and insulation manufacturers' instructions.
- D. Cover Boards: Adhere cover boards in accordance with roofing manufacturer's instructions and FM (AG) Factory Mutual requirements.
- E. Lay subsequent layers of insulation with joints staggered minimum 6 inches from joints of preceding layer.
- F. Place tapered insulation to the required slope pattern in accordance with manufacturer's instructions.
- G. Lay boards with edges in moderate contact without forcing. Cut insulation to fit neatly to perimeter blocking and around penetrations through roof.
- H. Tape joints of insulation in accordance with roofing and insulation manufacturers' instructions.
- I. At roof drains, use factory-tapered boards to slope down to roof drains over a distance of 18 inches.
- J. Do not install more insulation than can be covered with membrane in same day.

#### 3.5 INSTALLATION - MEMBRANE

- A. Roll out membrane, free from wrinkles or tears. Place sheet into place without stretching.
- B. Shingle joints on sloped substrate in direction of drainage.
- C. Fully Adhered Application: Apply adhesive to substrate at rate of 60 sq. ft. per gallon. Fully embed membrane in adhesive except in areas directly over or within 3 inches of expansion joints. Fully adhere one roll before proceeding to adjacent rolls.
- D. Overlap edges and ends and seal seams by contact adhesive, minimum 3 inches. Seal permanently waterproof. Apply uniform bead of sealant to joint edge.
- E. At intersections with vertical surfaces:
  - 1. Extend membrane over cant strips and up a minimum of 4 inches onto vertical surfaces.

- 2. Fully adhere flexible flashing over membrane and up to nailing strips.
- F. Around roof penetrations, seal flanges and flashings with flexible flashing.
- G. Install roofing expansion joints where indicated. Make joints watertight.
- H. Coordinate installation of roof drains and sumps and related flashings.

## 3.6 FIELD QUALITY CONTROL

- A. See Section 014000 Quality Requirements for additional requirements.
- B. Owner will provide testing services, and Contractor to provide temporary construction and materials for testing in accordance with requirements.
- C. Provide daily on-site attendance of roofing and insulation manufacturer's representative during installation of this work.

## 3.7 CLEANING

- A. See Section 017000 Execution and Closeout Requirements for additional requirements.
- B. Remove bituminous markings from finished surfaces.
- C. In areas where finished surfaces are soiled by work of this section, consult manufacturer of surfaces for cleaning advice and comply with their documented instructions.
- D. Repair or replace defaced or damaged finishes caused by work of this section.

## 3.8 PROTECTION

- A. Protect installed roofing and flashings from construction operations.
- B. Where traffic must continue over finished roof membrane, protect surfaces using durable materials.

END OF SECTION 075400

#### SECTION 099113 - EXTERIOR PAINTING

## PART 1 GENERAL

#### 1.1 SECTION INCLUDES

- A. Surface preparation.
- B. Field application of paints.
- C. Scope: Finish exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:
  - 1. Both sides and edges of plywood backboards for electrical and telecom equipment before installing equipment.
  - 2. Exposed surfaces of steel lintels and ledge angles.
  - 3. Exterior concrete masonry unit walls.
  - 4. Exterior exposed steel components.

## D. Do Not Paint or Finish the Following Items:

- 1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
- 2. Items indicated to receive other finishes.
- 3. Items indicated to remain unfinished.
- 4. Fire rating labels, equipment serial number and capacity labels, and operating parts of equipment.
- 5. Floors, unless specifically indicated.
- 6. Glass.
- 7. Concealed pipes, ducts, and conduits.

# 1.2 RELATED REQUIREMENTS

A. Section 099123 - Interior Painting.

## 1.3 REFERENCE STANDARDS

- A. SSPC-SP 1 Solvent Cleaning.
- B. SSPC-SP 2 Hand Tool Cleaning.
- C. SSPC-SP 6/NACE No.3 Commercial Blast Cleaning.

# 1.4 SUBMITTALS

- A. See Section 013000 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide complete list of products to be used, with the following information for each:

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- 1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
- 2. Cross-reference to specified paint system(s) product is to be used in; include description of each system.
- 3. Manufacturer's installation instructions.
- C. Manufacturer's Instructions: Indicate special surface preparation procedures.
- D. Maintenance Data: Submit data including finish schedule showing where each product/color/finish was used, product technical data sheets, material safety data sheets (MSDS), care and cleaning instructions, touch-up procedures, repair of painted and finished surfaces, and color samples of each color and finish used.
- E. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
  - 1. See Section 016000 Product Requirements, for additional provisions.
  - 2. Extra Paint and Finish Materials: 1 gallon of each color; from the same product run, store where directed.
  - 3. Label each container with color in addition to the manufacturer's label.

## 1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified, with minimum three years documented experience.
- B. Applicator Qualifications: Company specializing in performing the type of work specified with minimum three years experience and approved by manufacturer.

#### 1.6 MOCK-UPS

- A. See Section 014000 Quality Requirements, for general requirements for mock-up.
- B. Locate where directed by Architect.
- C. Mock-up may remain as part of the work.

# 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
- B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
- C. Paint Materials: Store at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.

#### 1.8 FIELD CONDITIONS

A. Do not apply materials when surface and ambient temperatures are outside the paint product manufacturer's temperature ranges.

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- B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
- C. Do not apply exterior paint and finishes during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.
- D. Minimum Application Temperatures for Latex Paints: 50 degrees F for exterior; unless required otherwise by manufacturer's instructions.
- E. Provide lighting level of 80 ft candles measured mid-height at substrate surface.

## PART 2 PRODUCTS

## 2.1 MANUFACTURERS

- A. Paints:
  - 1. Base Manufacturer: Sherwin Williams Company.
  - 2. Benjamin Moore & Co.: www.benjaminmoore.com.
  - 3. Pittsburgh Paints: www.pittsburghpaintsco.com.
- B. Substitutions: See Section 016000 Product Requirements.

## 2.2 PAINTS AND FINISHES - GENERAL

- A. Paints and Finishes: Ready-mixed, unless required to be a field-catalyzed paint.
  - 1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
  - 2. Provide materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.
  - 3. Supply each paint material in quantity required to complete entire project's work from a single production run.
  - 4. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is described explicitly in manufacturer's product instructions.
- B. Sheens: Provide the sheens specified; where sheen is not specified, sheen will be selected later by Architect from the manufacturer's full line.
- C. Colors: As indicated on drawings.
  - 1. Allow for minimum of three colors for each system, unless otherwise indicated, without additional cost to Owner.

## 2.3 PAINT SYSTEMS - EXTERIOR

- A. Hollow metal doors and frames to be Painted.
  - 1. Two top coats and one coat primer.
  - 2. Top Coat(s): Exterior Light Industrial Coating, Water Based.

a. Products:

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- 1) Basis of Design: Sherwin-Williams Pro Industrial Acrylic Coating, Semi-Gloss.
- 2) Benjamin Moore & Co.Ultra Spec HP DTM Acrylic Enamel, Semi-Gloss.
- 3) Pittsburgh Paints Pitt-Tech Plus EP DTM Industrial Enamel, 90-1610 Series, Semi-Gloss. (MPI #163)
- 4) Substitutions: See Section 016000 Product Requirements
- 3. Top Coat Sheen:
  - a. Semi-Gloss: MPI gloss level 5; use this sheen at all locations.
- 4. Water Based Primer for Hollow metal doors and frames.
  - a. Products:
    - 1) Basis of Design: Sherwin-Williams DTM Primer/Finish.
    - 2) Benjamin Moore & Co. Ultra Spec HP DTM Acrylic Enamel.
    - 3) Pittsburgh Paints Pitt-Tech Plus EP DTM Industrial Primer, 90-1912 Series.
    - 4) Substitutions: See Section 016000 Product Requirements
- B. Stripped galvanized metal surfaces to be Painted.
  - 1. Two top coats and one coat primer.
  - 2. Top Coat(s): Two-component, isocyanate-free polysiloxane finish.
    - a. Products:
      - 1) Basis of Design: Sherwin-Williams Sher-Loxane 800; www.sherwin-williams.com.
      - 2) Substitutions: See Section 016000 Product Requirements
  - 3. Primer:
    - a. Products:
      - 1) Basis of Design: Sherwin-Williams DTM Wash Primer: www.sherwin-williams.com.
      - 2) Substitutions: See Section 016000 Product Requirements
- C. Stripped ferrous metal surfaces to be Painted.
  - 1. Two top coats and one coat primer.
  - 2. Top Coat(s): Two-component, isocyanate-free polysiloxane finish.
    - a. Products:
      - 1) Basis of Design: Sherwin-Williams Sher-Loxane 800; www.sherwin-williams.com.
      - 2) Substitutions: See Section 016000 Product Requirements
  - 3. Primer:
    - a. Products:
      - 1) Basis of Design: Sherwin-Williams Corothane I MIO-Zinc Primer.
      - 2) Substitutions: See Section 016000 Product Requirements
- D. Metal panels with existing finish to be encapsulated.
  - 1. Two top coats and one coat primer.
  - 2. Top Coat(s): Two-component, isocyanate-free polysiloxane finish.
    - a. Products:
      - 1) Basis of Design: Sherwin-Williams Sher-Loxane 800; www.sherwin-williams.com.
      - 2) Substitutions: See Section 016000 Product Requirements
  - 3. Primer:
    - a. Products:

- 1) As recommended by top coat manufacturer for specific substrate.
- 2) Product selection confirmed only after successful completion of adhesion test(s).

## 2.4 ACCESSORY MATERIALS

- A. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of painted surfaces.
- B. Patching Material: Latex filler.
- C. Fastener Head Cover Material: Latex filler.

#### PART 3 EXECUTION

#### 3.1 EXAMINATION

- A. Do not begin application of paints and finishes until substrates have been properly prepared.
- B. Verify that surfaces are ready to receive work as instructed by the product manufacturer.
- C. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.
- D. Test shop-applied primer for compatibility with subsequent cover materials.

## 3.2 PREPARATION

- A. Clean surfaces thoroughly and correct defects prior to application.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces for finishing.
- D. Seal surfaces that might cause bleed through or staining of topcoat.
- E. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
- F. Galvanized Surfaces:
  - 1. Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.
  - 2. Prepare surface according to SSPC-SP 2.

## G. Ferrous Metal:

- 1. Solvent clean according to SSPC-SP 1.
- 2. Shop-Primed Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item.

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- 3. Remove rust, loose mill scale, and other foreign substances using methods recommended in writing by paint manufacturer and blast cleaning in accordance with SSPC-SP 6/NACE No.3. Protect from corrosion until coated.
- H. Metal Doors to be Painted: Prime metal door top and bottom edge surfaces.

## 3.3 APPLICATION

- A. Apply products in accordance with manufacturer's written instructions.
- B. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- C. Apply each coat to uniform appearance.
- D. Sand metal surfaces lightly between coats to achieve required finish.
- E. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
- F. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

## 3.4 FIELD QUALITY CONTROL

A. See Section 014000 - Quality Requirements, for general requirements for field inspection.

#### 3.5 CLEANING

A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.

#### 3.6 PROTECTION

- A. Protect finishes until completion of project.
- B. Touch-up damaged finishes after Substantial Completion.

END OF SECTION 099113

## SECTION 078100 - APPLIED FIRE PROTECTION

## PART 1 GENERAL

#### 1.1 SECTION INCLUDES

- A. Applied fire protection of interior structural steel not exposed to damage or moisture.
- B. Applied fire protection of structural steel exposed to damage or moisture.
- C. Preparation of applied fire protection for application of exposed overcoat finish specified elsewhere.

# 1.2 RELATED REQUIREMENTS

A. Section 078400 - Firestopping.

## 1.3 REFERENCE STANDARDS

- A. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials.
- B. ASTM E736/E736M Standard Test Method for Cohesion/Adhesion of Sprayed Fire-Resistive Materials Applied to Structural Members.
- C. ASTM E760/E760M Standard Test Method for Effect of Impact on Bonding of Sprayed Fire-Resistive Material Applied to Structural Members.
- D. ASTM E859/E859M Standard Test Method for Air Erosion of Sprayed Fire-Resistive Materials (SFRMs) Applied to Structural Members.
- E. ASTM E937/E937M Standard Test Method for Corrosion of Steel by Sprayed Fire-Resistive Material (SFRM) Applied to Structural Members.

# 1.4 ADMINISTRATIVE REQUIREMENTS

- A. Coordinate with placement of ceiling hanger tabs, mechanical component hangers, and electrical components.
- B. Preinstallation Meeting: Convene one week before starting work of this section.

#### 1.5 SUBMITTALS

- A. See Section 013000 Administrative Requirements, for submittals procedures.
- B. Product Data: Provide data indicating product characteristics.
- C. Manufacturer's Certificate: Certify that applied fireproofing products meet or exceed requirements of Contract Documents.

- D. Test Reports: Reports from reputable independent testing agencies for proposed products, indicating compliance with specified criteria, conducted under conditions similar to those on project, as follows:
  - 1. Bond strength.
  - 2. Bond impact.
  - 3. Compressive strength.
  - 4. Fire tests using substrate materials similar those on project.
- E. Manufacturer's Installation Instructions: Indicate special procedures.
- F. Manufacturer's Qualification Statement.
- G. Installer's Qualification Statement.

## 1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.
- B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience

#### 1.7 MOCK-UP

- A. Construct mock-up, 100 square feet in size.
- B. Comply with project requirements for fire ratings.
- C. Locate where directed.
- D. Examine installation within one hour of application to determine variances from specified requirements due to shrinkage, temperature, and humidity.
- E. Where shrinkage and cracking are evident, adjust mixture and method of application as necessary; remove materials and re-construct mock-up.
- F. Mock-up may remain as part of the Work.

# 1.8 FIELD CONDITIONS

- A. Do not apply fireproofing when temperature of substrate material and surrounding air is below 40 degrees F or when temperature is predicted to be below said temperature for 24 hours after application.
- B. Provide ventilation in areas to receive fireproofing during application and 24 hours afterward, to dry applied material.
- C. Provide temporary enclosure to prevent spray from contaminating air.
- D. Do not allow roof traffic during installation of roof fireproofing and drying period.

## 1.9 WARRANTY

- A. See Section 017800 Closeout Submittals, for additional warranty requirements.
- B. Correct defective Work within a two year period after Date of Substantial Completion.
  - 1. Include coverage for fireproofing to remain free from cracking, checking, dusting, flaking, spalling, separation, and blistering.
  - 2. Reinstall or repair failures that occur within warranty period.

#### PART 2 PRODUCTS

## 2.1 MANUFACTURERS

- A. Applied Fire Protection:
  - 1. GCP Applied Technologies: www.gcpat.com/#sle.
  - 2. Isolatek International Corp: www.isolatek.com/#sle.
  - 3. Southwest Fireproofing Products Company: www.sfrm.com/#sle.
  - 4. Substitutions: See Section 016000 Product Requirements.

#### 2.2 APPLIED FIRE PROTECTION ASSEMBLIES

#### 2.3 MATERIALS

- A. Applied Fire Protection Material for Interior Applications, Exposed to View and Not to Damage: Manufacturer's standard factory mixed material, which when combined with water is capable of providing indicated fire resistance, and complying with following requirements:
  - 1. Composition: Gypsum-based; not mineral-fiber-based.
  - 2. Bond Strength: 150 pounds per square foot, minimum, when tested in accordance with ASTM E736/E736M when set and dry.
  - 3. Compressive Strength: 8.33 pounds per square inch, minimum.
  - 4. Effect of Impact on Bonding: No cracking, spalling or delamination, when tested in accordance with ASTM E760/E760M.
  - 5. Corrosivity: No evidence of corrosion, when tested in accordance with ASTM E937/E937M.
  - 6. Surface Burning Characteristics: Maximum flame spread index of 0 (zero) and maximum smoke developed index of 0 (zero), when tested in accordance with ASTM E84.
- B. Applied Fire Protection Material Exposed to Damage or Moisture: Manufacturer's standard factory mixed material, which when combined with water is capable of providing indicated fire resistance, and complying with following requirements:
  - 1. Recommended by manufacturer for permanent exterior exposure.
  - 2. Composition: Portland cement-based; not mineral fiber-based.
  - 3. Bond Strength: 1,000 psf, minimum, when tested in accordance with ASTM E736/E736M when set and dry.
  - 4. Effect of Impact on Bonding: No cracking, spalling or delamination, when tested in accordance with ASTM E760/E760M.
  - 5. Corrosivity: No evidence of corrosion, when tested in accordance with ASTM E937/E937M.

- 6. Air Erosion Resistance: Weight loss of 0.025 g/sq ft, maximum, when tested in accordance with ASTM E859/E859M after 24 hours.
- 7. Surface Burning Characteristics: Maximum flame spread index of 0 (zero) and maximum smoke developed index of 0 (zero), when tested in accordance with ASTM E84.

#### 2.4 ACCESSORIES

- A. Primer Adhesive: Of type recommended by applied fire protection manufacturer.
- B. Overcoat: As recommended by manufacturer of applied fire protection material.
- C. Metal Lath: Expanded metal lath; minimum weight of 1.7 psf, galvanized finish.
- D. Water: Clean, potable.

## PART 3 EXECUTION

## 3.1 EXAMINATION

- A. Verify that surfaces are ready to receive fireproofing.
- B. Verify that clips, hangers, supports, sleeves, and other items required to penetrate fireproofing are in place.
- C. Verify that ducts, piping, equipment, or other items that would interfere with application of fireproofing have not been installed.
- D. Verify that voids and cracks in substrate have been filled.
- E. Verify that projections have been removed where fireproofing will be exposed to view as a finish material.

# 3.2 PREPARATION

- A. Perform tests as recommended by fireproofing manufacturer in applications where adhesion of fireproofing to substrate is in question.
- B. Remove incompatible materials that could effect bond by scraping, brushing, scrubbing, or sandblasting.
- C. Prepare substrates to receive fireproofing in strict accordance with instructions of fireproofing manufacturer.
- D. Apply fireproofing manufacturer's recommended bonding agent on primed steel.
- E. Protect surfaces not scheduled for fireproofing and equipment from damage by overspray, fallout, and dusting.
- F. Close off and seal duct work in areas where fireproofing is being applied.

## 3.3 APPLICATION

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- A. Install metal lath over structural members as indicated or as required by UL Assembly Design Numbers.
- B. Apply primer adhesive in accordance with manufacturer's instructions.
- C. Apply fireproofing in uniform thickness and density as necessary to achieve required ratings.
- D. In exposed locations, trowel surface smooth and form square edges, using tools and procedures recommended by fireproofing manufacturer.
- E. Apply overcoat at the rate recommended by fireproofing manufacturer.

## 3.4 FIELD QUALITY CONTROL

- A. Perform field inspection and testing in accordance with Section 014000 Quality Requirements.
- B. Inspect installed fireproofing after application and curing for integrity, prior to its concealment.
- C. Ensure that actual thicknesses, densities, and bond strengths meet requirements for specified ratings and requirements of authorities having jurisdiction (AHJ).
- D. Repair or replace applied fireproofing at locations where test results indicate fireproofing does not meet specified requirements.
- E. Re-inspect installed fireproofing for integrity of fire protection, after installation of subsequent Work.

#### 3.5 CLEANING

- A. Remove excess material, overspray, droppings, and debris.
- B. Remove fireproofing from materials and surfaces not required to be fireproofed.
- C. At exposed fireproofing, clean surfaces that have become soiled or stained, using manufacturer's recommended procedures.

END OF SECTION 078100

#### SECTION 078400 - FIRESTOPPING

#### PART 1 GENERAL

#### 1.1 SECTION INCLUDES

A. Firestopping systems.

# 1.2 RELATED REQUIREMENTS

- A. Section 033000 Cast-in-Place Concrete.
- B. Section 042000 Unit Masonry: Rated CMU walls.
- C. Section 053100 Steel Decking.

#### 1.3 REFERENCE STANDARDS

- A. ASTM E119 Standard Test Methods for Fire Tests of Building Construction and Materials.
- B. ASTM E814 Standard Test Method for Fire Tests of Penetration Firestop Systems.
- C. ASTM E1966 Standard Test Method for Fire-Resistive Joint Systems.
- D. ASTM E2307 Standard Test Method for Determining Fire Resistance of Perimeter Fire Barriers Using Intermediate-Scale, Multi-story Test Apparatus.
- E. ASTM E2837 Standard Test Method for Determining the Fire Resistance of Continuity Headof-Wall Joint Systems Installed between Rated Wall Assemblies and Nonrated Horizontal Assemblies.
- F. ITS (DIR) Directory of Listed Products.
- G. FM (AG) FM Approval Guide.
- H. UL 1479 Standard for Fire Tests of Penetration Firestops.
- I. UL 2079 Standard for Tests for Fire Resistance of Building Joint Systems.
- J. UL (FRD) Fire Resistance Directory.

# 1.4 SUBMITTALS

- A. See Section 013000 Administrative Requirements for submittal procedures.
- B. Schedule of Firestopping: List each type of penetration, fire rating of the penetrated assembly, and firestopping test or design number.
- C. Product Data: Provide data on product characteristics, performance ratings, and limitations.
- D. Manufacturer's Installation Instructions: Indicate preparation and installation instructions.

- E. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.
- F. Manufacturer's qualification statement.
- G. Installer's qualification statement.

#### 1.5 QUALITY ASSURANCE

- A. Fire Testing: Provide firestopping assemblies of designs that provide the scheduled fire ratings when tested in accordance with methods indicated.
  - 1. Listing in UL (FRD), FM (AG), or ITS (DIR) will be considered as constituting an acceptable test report.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
- C. Installer Qualifications: Company specializing in performing the work of this section and:
  - 1. Verification of minimum three years documented experience installing work of this type.

#### 1.6 MOCK-UPS

- A. Install one firestopping assembly representative of each fire rating design required on project.
  - 1. Where one design may be used for different penetrating items or in different wall constructions, install one assembly for each different combination.
  - 2. Where firestopping is intended to fill a linear opening, install at least 1 linear foot of firestopping.
- B. If accepted, mock-up will represent minimum standard for this work.
- C. If accepted, mock-up may remain as part of this work. Remove and replace mock-ups not accepted.

#### 1.7 FIELD CONDITIONS

- A. Comply with firestopping manufacturer's recommendations for temperature and conditions during and after installation; maintain minimum temperature before, during, and for three days after installation of materials.
- B. Provide ventilation in areas where solvent-cured materials are being installed.

#### PART 2 PRODUCTS

#### 2.1 MANUFACTURERS

- A. Firestopping Manufacturers:
  - 1. 3M Fire Protection Products: www.3m.com/firestop.
  - 2. Hilti, Inc: www.us.hilti.com.
  - 3. Tremco Commercial Sealants & Waterproofing: www.tremcosealants.com.

4. Substitutions: See Section 016000 - Product Requirements.

## 2.2 MATERIALS

- A. Firestopping Materials: Any materials meeting requirements.
- B. Primers, Sleeves, Forms, Insulation, Packing, Stuffing, and Accessories: Provide type of materials as required for tested firestopping assembly.
- C. Fire Ratings: Refer to drawings for required systems and ratings.

# 2.3 FIRESTOPPING ASSEMBLY REQUIREMENTS

- A. Perimeter Fire Containment Firestopping: Use system that has been tested according to ASTM E2307 to have fire resistance F Rating equal to required fire rating of floor assembly.
- B. Head-of-Wall (HW) Joint System Firestopping at Joints Between Fire-Rated Wall Assemblies and Non-Rated Horizontal Assemblies: Use system that has been tested according to ASTM E2837 to have fire resistance F Rating equal to required fire rating of wall assembly.
- C. Floor-to-Floor (FF), Floor-to-Wall (FW), Head-of-Wall (HW), and Wall-to-Wall (WW) Joints, Except Perimeter, Where Both Are Fire-Rated: Use system that has been tested according to ASTM E1966 or UL 2079 to have fire resistance F Rating equal to required fire rating of the assembly in which the joint occurs.
- D. Through Penetration Firestopping: Use system that has been tested according to ASTM E814 to have fire resistance F Rating equal to required fire rating of penetrated assembly.

## 2.4 FIRESTOPPING SYSTEMS

- A. Firestopping: Any material meeting requirements.
  - 1. Fire Ratings: Use system that is listed by FM (AG), ITS (DIR), or UL (FRD) and tested in accordance with ASTM E814, ASTM E119, or UL 1479 with F Rating equal to fire rating of penetrated assembly and minimum T Rating Equal to F Rating and in compliance with other specified requirements.

# PART 3 EXECUTION

## 3.1 EXAMINATION

A. Verify openings are ready to receive the work of this section.

## 3.2 PREPARATION

- A. Clean substrate surfaces of dirt, dust, grease, oil, loose material, or other materials that could adversely affect bond of firestopping material.
- B. Remove incompatible materials that could adversely affect bond.
- C. Install backing materials to prevent liquid material from leakage.

#### 3.3 INSTALLATION

# Buffalo Urban Development Corporation Northland Corridor Redevelopment Project Phase 4 631 Northland Avenue

- A. Install materials in manner described in fire test report and in accordance with manufacturer's instructions, completely closing openings.
- B. Do not cover installed firestopping until inspected by authorities having jurisdiction.
- C. Install labeling required by code.

# 3.4 CLEANING

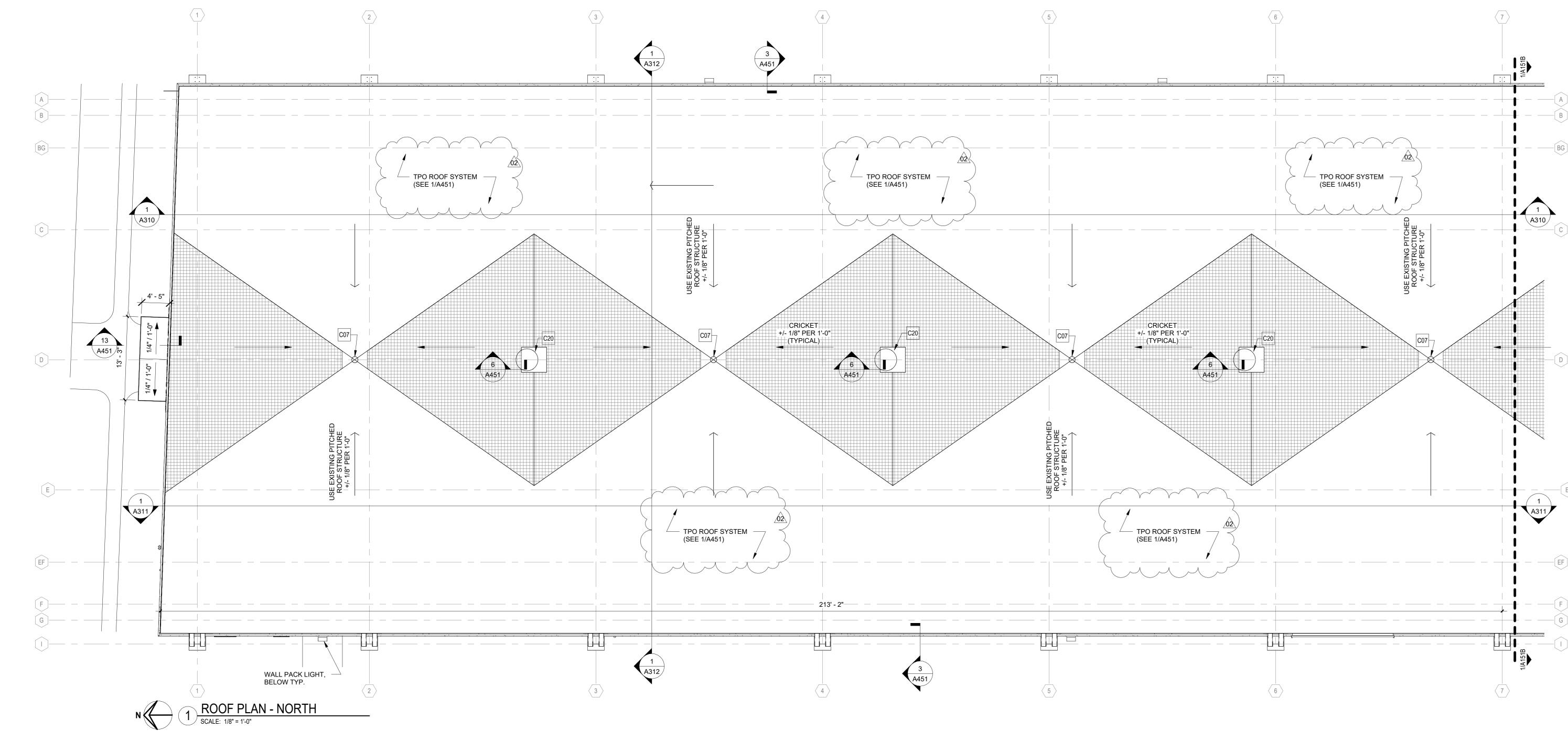
A. Clean adjacent surfaces of firestopping materials.

# 3.5 PROTECTION

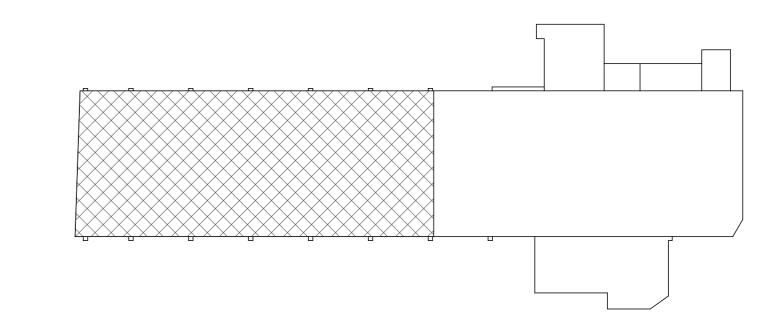
A. Protect adjacent surfaces from damage by material installation.

END OF SECTION 078400

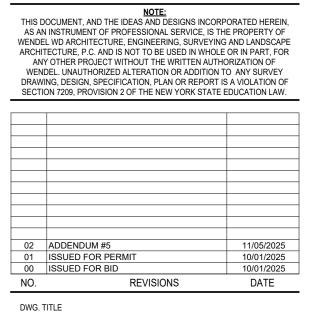
CONSTRUCTION KEYNOTES C07 PROVIDE ROOF DRAINS. REFER TO PLUMBING DRAWINGS. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL SUPPORT DETAILS. C20 PROVIDE GRAVITY FED VENTS. REFER TO MECHANICAL DRAWINGS. Buffalo Urban Development Corporation Hon. Christopher P. Scanlon, Chairman **BUFFALO URBAN DEVELOPMENT** CORPORATION 631 NORTHLAND AVE. BUFFALO, NY 14211 INDUSTRIAL MANUFACTURING **ISSUED FOR BID** 237 Main Street, Suite 500



ROOF PLAN LEGEND/SYMBOLS  $\otimes _{\text{OFD}}^{\text{RD/}}$ ROOF DRAIN & OVERFLOW DRAIN RE: EXHAUST FAN RE: TAPERED INSULATION CRICKET SLOPE DOWN IN DIRECTION INDICATED @ 1/2" PER 12" SLOPED DECK, DOWN IN DIRECTION INDICATED SLOPE BY TAPERED INSULATION, DOWN IN DIRECTION INDICATED







BUILDING

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Barbara A. Campagna/Architecture + Planning, PLLC

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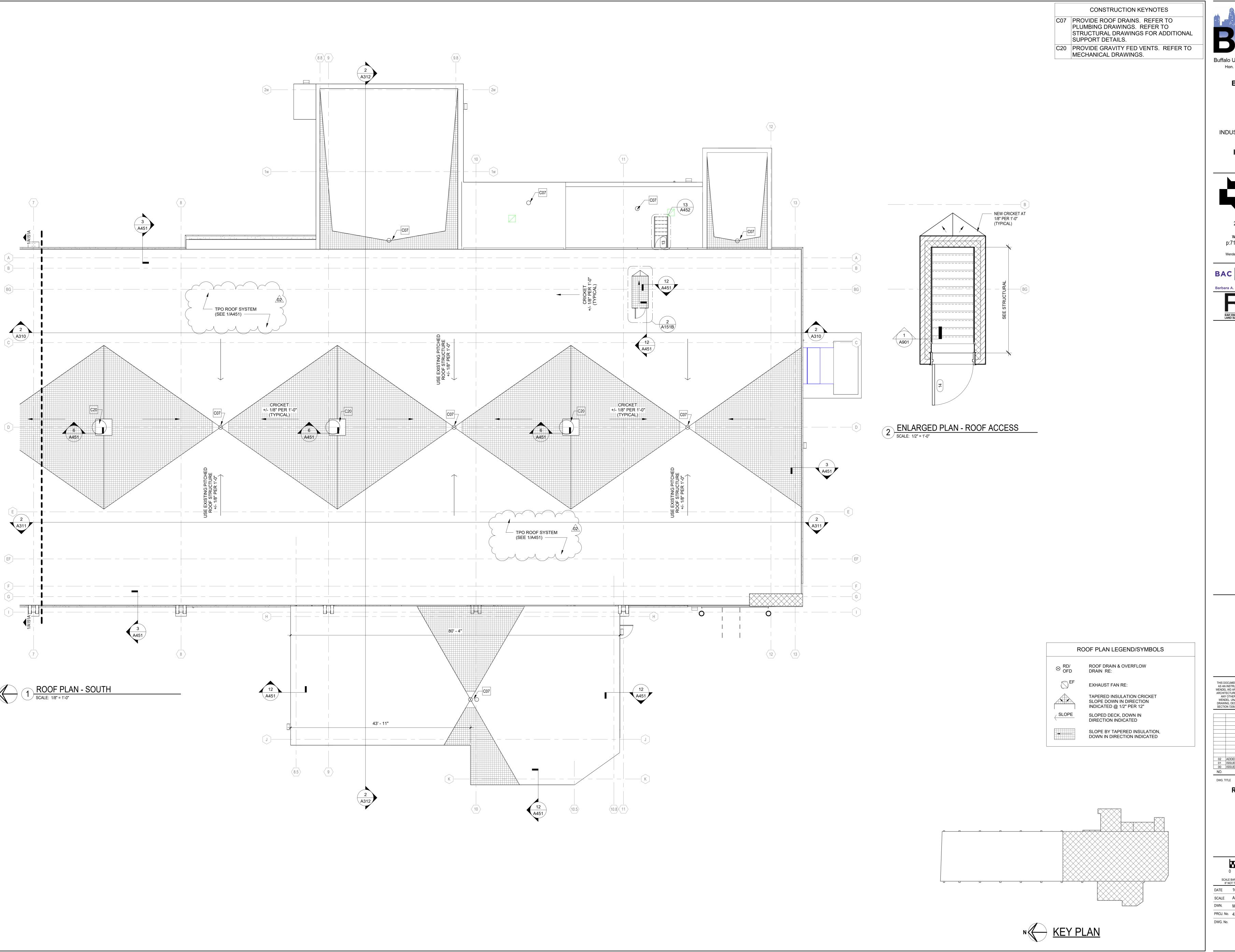
574 Main Street, Suite 205 East Aurora, NY 14052 P.716.805.1526

**ROOF PLAN - NORTH** 

SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY DATE 10/01/2025 SCALE 1/8" = 1'-0"

CHK. BS1 PROJ. No. 432607

A151A



Hon. Christopher P. Scanlon, Chairman

**BUFFALO URBAN DEVELOPMENT** CORPORATION

631 NORTHLAND AVE. BUFFALO, NY 14211

INDUSTRIAL MANUFACTURING BUILDING

**ISSUED FOR BID** 

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NOTE:

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02 ADDENDUM #5
01 ISSUED FOR PERMIT
00 ISSUED FOR BID REVISIONS

**ROOF PLAN - SOUTH** 

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