BASEMENT EGRESS WINDOW REQUIREMENTS:
1. The bottom of the egress window clear opening shall exceed 4'4" from the finished floor.
2. The minimum clear opening area of the egress window is 5.7 square feet.
3. The minimum egress window opening clear height is 24" high.
4. The minimum egress window opening clear width is 20" wide.
5. The minimum window sill size is 36" x 36" for 4 square feet total.
6. The escape ladder may project 6" into well.

NOTE: ALL CALL-OUTS ABOVE ARE TYPICAL

EGRESS WINDOW WELL PLAN

SCALE: 1/4" = 1'-0"

SCALE FEET
0' 1' 2' 3' 4' 5' 6'

McCreadys Residence
2101 East 7th Avenue PKWY
Denver, Colorado 80206

Bormann Eitemiller Architects
T/ 303.903.9769
A/ 182 West 12th Avenue
Denver CO 80204
E/ paul@bormannarchitects.com

ISSUED:
10/26/2021 FOR REVIEW

DRAWING NO.: SK2
BOTTOM OF EXISTING CEILING
NEW WINDOW HEAD TRIM TO MATCH EXISTING
FACE OF EXISTING ADJACENT WALL
NEW WINDOW JAMB TRIM TO MATCH EXISTING
DOUBLE INSULATED (U FACTOR 0.30) CASEMENT EGRESS WINDOW
NEW WINDOW SILL TRIM TO MATCH EXISTING
TOP OF EXISTING FLOOR

NOTE - CONTRACTOR SHALL VERIFY ALL VERTICAL DIMENSIONS TO ACHIEVE 44' (3'-8") MAXIMUM CLEAR SILL OPENING HEIGHT AT NEW EGRESS WINDOW

EGRESS WINDOW ELEVATION

SCALE: 1/2" = 1'-0"

SCALE FEET

0' 1' 2' 3'

BORMANN EITEMILLER ARCHITECTS

McCREADY RESIDENCE
2101 EAST 7TH AVENUE PKWY
DENVER, COLORADO 80206

PROJECT:

T/ 303.903.9769
A/ 182 WEST 12TH AVENUE
DENVER CO 80204
E/ paul@bormannarchitects.com

ISSUED:
10/26/2021 FOR REVIEW

DRAWING NO: SK4
NOTE: ALL CALL-OUTS ABOVE ARE TYPICAL

CONCRETE NOTES:
1. CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI CODE
2. CONCRETE SHALL BE 4,000 PSI
3. REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE."
4. REBAR FY = 60,000 PSI
PRODUCT AND PERFORMANCE INFORMATION

NFRC energy ratings and values may vary depending on the exact configuration of glass thickness used on the unit. This data may change over time due to ongoing product changes or updated test results or requirements.

The National Fenestration Rating Council (NFRC) has developed and operates a uniform national rating system for the energy performance of fenestration products, including windows and doors. For additional information regarding this rating system, see www.nfrc.org.

NFRC energy values and ratings may change over time due to ongoing product changes, updated test results or requirements.

Review the map below to determine if your units meet ENERGY STAR for your location.

ENERGY STAR® for Windows, Doors, and Skylights
CLIMATE ZONE MAP

International Energy Conservation Code (IECC) Climate Regions

All of Alaska is in Zone 7 except for the following boroughs which are in Zone 6: Bethel, Dillingham, Fairbanks N. Star, Nome, North Slope, Northwest Arctic, Southwest Fairbanks, Wade Hampton, Yukon-Charleyuk.

Zone 1 includes Hawaii, Guam, Puerto Rico, and the Virgin Islands.

Climate Zone:
1 2 3 4 5 6 7
## Ultimate Wood Tilt Turn/Hopper

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Features</td>
<td>1</td>
</tr>
<tr>
<td>Authentic Divided Lite (ADL) and Simulated Divided Lite (SDL) Options</td>
<td>2</td>
</tr>
<tr>
<td>Optional Interior Square Simulated Divided Lite</td>
<td>3</td>
</tr>
<tr>
<td>Minimum and Maximum Measurements / Certified Sizes and Ratings</td>
<td>4</td>
</tr>
<tr>
<td>Unit Operation</td>
<td>5</td>
</tr>
<tr>
<td>Measurement Conversions</td>
<td>6</td>
</tr>
<tr>
<td>Section Details: Operating</td>
<td>7</td>
</tr>
<tr>
<td>Section Details: Direct Glaze</td>
<td>8</td>
</tr>
<tr>
<td>Section Details: Mullions for Operating Units</td>
<td>9</td>
</tr>
</tbody>
</table>
Unit Features

Ultimate Wood Tilt Turn: WMTT
Ultimate Wood Tilt Turn Hopper: ULWTT HOP

NOTE: Ultimate Wood Tilt Turn Hopper not available with CE mark.

Frame:
- Frame thickness: 3 1/16" (78)
- Sill thickness: 1 11/16" (43)

Sash:
- Operating Rail thickness: 2 1/4" (57)
- Operating Stile width: 3 5/32" (80)
- Operating Top and bottom rail width: 3 5/32" (80)

Hardware:
- Tilt Turn: Multi-point locking hardware with Bronze pistol grip handle
  - Optional Hardware Colors: White, Satin Chrome, Solid Brass, Bronze keyed or White keyed handle
  - Optional features: Turn restrictor, security key or additional scissor stay
  - Tilt turn keyed stationary: Key operated lock allows authorized swing only
- Hopper: Bronze pistol grip handle
  - Optional Hardware Colors: White, Satin Chrome, or Solid Brass.
- Tilt Stay - Limiter on Hopper

Weather Strip:
- Weather Strip: Resilient leaf type gasket. Color: Black

Standard Insect Screen:
- Standard screen is roll formed aluminum
- Colors available: Pebble Gray, Bahama Brown, Evergreen, Bronze, Stone White, Ebony, Wineberry, Coconut Cream, Hampton Sage, Cashmere, Sierra White, Cadet Gray, Cascade Blue, Bright Silver (pearlescent), Copper (pearlescent), Clay, Gunmetal, Liberty Bronze (pearlescent), or Suede.
- Screen mesh: Charcoal fiberglass
  - Optional screen mesh: Charcoal High Transparency Fiberglass Mesh, Charcoal Aluminum Wire, Black Aluminum Wire, Bright Aluminum Wire, Black Aluminum Wire, or Bright Bronze Aluminum Wire
- Optional wood screen

Glass and Glazing:
- Glazing Seal: Silicone glazed
- Glazing Type: Clear glass, optional glass types: Low E2 Argon, Low E3 Argon, Low E2/ERS Argon or air, Low E3/ERS Argon or air, Laminated, Tempered, Obscure, Bronze tint, Gray tint, and Reflective Bronze
- Optional Glazing Available: Low E1 Argon, Low E3 Argon, 1" Tripane Low E1 outer piece and Low E1 Argon inner piece, 1" Tripane Low E2 outer piece and Low E2 Krypton-Argon inner piece, 1" Tripane Low E3 outer piece and Low E1 Krypton-Argon, clear, tints, tempered, obscure, decorative glass options and others
- Insulating glass will be altitude adjusted with capillary tubes for higher elevations
- ADL glazing options not available with Argon

CE Optional Glazing:
- Glazing method: Insulating
- Glazing seal: Silicone glazed
- Standard glass is 7/8" (22) insulating Low E2 Argon or air
- Optional dual glazing available: Low E1 Argon or air, Low E3 Argon or air, Low E2/ERS Argon or air, Low E3/ERS Argon or air, clear, laminated clear and tints, tempered, sandblasted
- Optional 1" Tripane glass types: Low E1/E1 Argon or Krypton-Argon, Low E2/E2 Argon or Krypton-Argon, Low E3/E1 Argon or Krypton-Argon
- Glass panes available in 3, 4, and 6 mm thicknesses
- Laminated panes available in 7.0 and 7.8 mm thicknesses
- Glazing will be altitude adjusted for higher elevations, Argon, Argon-Krypton, and Krypton gas not included
NOTE: Single Glaze, ADL, and Energy Panel not available with CE mark.
Optional Interior Square Simulated Divided Lite

- 5/8" SDL
- 7/8" SDL
- 1 1/8" SDL

- 5/8" SDL
- 7/8" SDL
- 1 1/8" SDL

W/Spacer
W/Spacer Bar
W/Spacer Bar
## Minimum and Maximum Measurements / Certified Sizes and Ratings

### Minimum and Maximum Guidelines

<table>
<thead>
<tr>
<th>Unit Type</th>
<th>Min Frame Size Unit</th>
<th>Max Frame Size Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Width in</td>
<td>Height mm</td>
</tr>
<tr>
<td>Ultimate Wood Tilt Turn Hopper</td>
<td>23</td>
<td>(584)</td>
</tr>
<tr>
<td>Insulated Glass 7/8&quot; (22) or 1&quot; (25)</td>
<td>19 1/2</td>
<td>(495)</td>
</tr>
</tbody>
</table>

### Design Pressure (DP)

<table>
<thead>
<tr>
<th>Product</th>
<th>Air Tested to psf</th>
<th>Water Tested to psf</th>
<th>Structural Tested to psf</th>
<th>Certification Rating</th>
<th>Design Pressure (DP)</th>
<th>Max Overall Width in</th>
<th>Max Overall Height mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultimate Wood Tilt Turn Hopper</td>
<td>1.57</td>
<td>6</td>
<td>60</td>
<td>CW-PG40-AP</td>
<td>40</td>
<td>(1651)</td>
<td>49 3/4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ultimate Wood Tilt Turn</td>
<td>1.57</td>
<td>6.06</td>
<td>60.19</td>
<td>CW-PG40-DAW</td>
<td>40</td>
<td>(1245)</td>
<td>73 3/4</td>
</tr>
<tr>
<td>Inswing Casement</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Product Certification Rating

<table>
<thead>
<tr>
<th>Product</th>
<th>Air Tested to psf</th>
<th>Water Tested to psf</th>
<th>Wind Load Resistance to psf</th>
<th>Certification Rating</th>
<th>Design Pressure (DP)</th>
<th>Max Overall Width in</th>
<th>Max Overall Height mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultimate Wood Tilt Turn Inswing Casement</td>
<td>1.57</td>
<td>4.18</td>
<td>62.66</td>
<td>CW-PG40-C</td>
<td>40</td>
<td>(1245)</td>
<td>73 3/4</td>
</tr>
</tbody>
</table>

**NOTE:** For CE ratings, please refer to CE Performance Section.
Unit Operation

Tilt-Turn Handle Location

<table>
<thead>
<tr>
<th>Frame Size Height</th>
<th>Handle Height from Bottom of Sash</th>
</tr>
</thead>
<tbody>
<tr>
<td>24&quot; - 27 7/8&quot;</td>
<td>7 7/16&quot;</td>
</tr>
<tr>
<td>27 15/16&quot; - 35 3/4&quot;</td>
<td>11 1/16&quot;</td>
</tr>
<tr>
<td>35 13/16&quot; - 43 5/8&quot;</td>
<td>17&quot;</td>
</tr>
<tr>
<td>43 11/16&quot; - 51 1/2&quot;</td>
<td>20 15/16&quot;</td>
</tr>
<tr>
<td>51 9/16&quot; - 75 1/8&quot;</td>
<td>22 7/8&quot;</td>
</tr>
<tr>
<td>75 3/16&quot; - 96&quot;</td>
<td>40 1/16&quot;</td>
</tr>
</tbody>
</table>

Hardware Size Chart

NOTE: All operations are viewed from exterior.
### Measurement Conversions

Scale: 1 1/2" = 1' 0"

#### Unit Measurements - 2 13/32" Jambs

<table>
<thead>
<tr>
<th>From</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rough Opening</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OM of Frame</td>
<td>+ 1</td>
<td>+ 1/2</td>
</tr>
<tr>
<td>Masonry Opening w/BMC</td>
<td>-2 1/4</td>
<td>-1 11/16</td>
</tr>
<tr>
<td>Sash</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OM of Frame</td>
<td>-2 13/16</td>
<td>-4 3/32</td>
</tr>
<tr>
<td>Daylight Opening</td>
<td>+ 6 5/16</td>
<td>+ 6 5/16</td>
</tr>
<tr>
<td>Glass</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daylight Opening</td>
<td>+ 1 1/8</td>
<td>+ 1 1/8</td>
</tr>
</tbody>
</table>

#### Unit Measurements - 4 9/16" Jambs

<table>
<thead>
<tr>
<th>From</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rough Opening</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OM of Frame</td>
<td>+ 1</td>
<td>+ 1/2</td>
</tr>
<tr>
<td>Masonry Opening w/BMC</td>
<td>-2 1/4</td>
<td>-1 11/16</td>
</tr>
<tr>
<td>Sash</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OM of Frame</td>
<td>-3 27/32</td>
<td>-4 9/16</td>
</tr>
<tr>
<td>Daylight Opening</td>
<td>+ 6 5/16</td>
<td>+ 6 5/16</td>
</tr>
<tr>
<td>Glass</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daylight Opening</td>
<td>+ 1 1/8</td>
<td>+ 1 1/8</td>
</tr>
</tbody>
</table>

#### Net Clear Opening:
- Rough Opening Width - 8 1/8" (206)
- Rough Opening Height - 7 3/4" (197)
Section Details: Direct Glaze

Scale: 3" = 1' 0"

4 9/16" Jambs

Head Jamb and Sill

Direct Glaze Mullion

Horizontal Mullion

Vertical Mullion
Section Details: Mullions for Operating Units

Scale: 3" - 1' 0"

Jamb Extension Policy for Multiples Assemblies

To provide the necessary structural integrity for multiple width and height assemblies, 4 9/16" (116) exterior jamb extensions must be applied around the perimeter and between the shortest intermediate mulls.

Total assembly Rough Opening or Masonry Opening must be specified to assure individual unit sizes will be appropriately calculated.

Operating

2 13/32" Jambs

Horizontal Mullion

Vertical Mullion

Operating

4 9/16" Jambs

Horizontal Mullion

Vertical Mullion

CE Mulling Options will match UCA family mulling rules:

- Mulled assemblies up to 64" (1626) x 71 1/8" (1807) as a 1H x multi-width
- Mulled assemblies with 1" (25) LVL or 3/8" (10) aluminum mull reinforcement up to 122" (3099) x 104 1/4" (2638) as a multi-wide or multi-high assembly