

PLY GEM FENCE/RAILING TEST REPORT

SCOPE OF WORK

DYNAMIC WIND LOAD TESTING ON VARIOUS PVC PRIVACY FENCE SYSTEMS

REPORT NUMBER

H0431.01-119-19-R1

TEST DATE(S)

10/30/17 - 11/08/17

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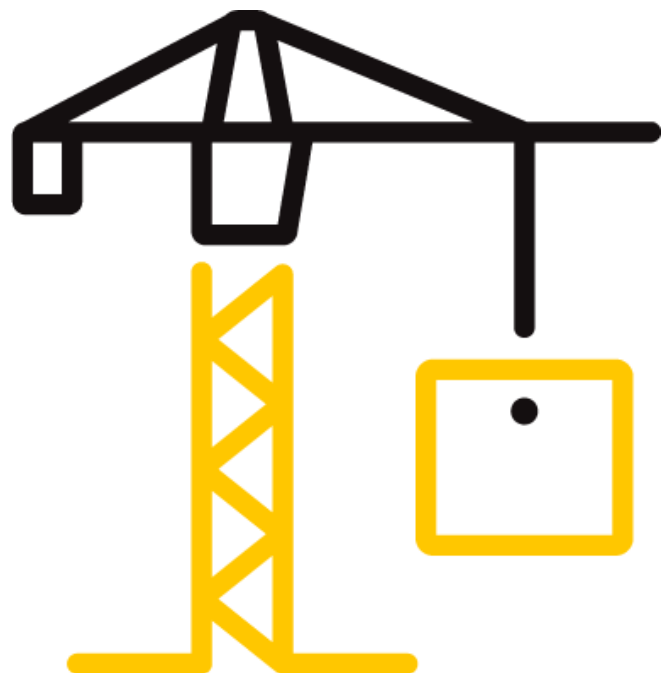
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TEST REPORT FOR PLY GEM FENCE/RAILING

Report No.: H0431.01-119-19-R1

Date: 01/15/18

REPORT ISSUED TO

PLY GEM FENCE/RAILING

15159 Andrew Jackson Highway 76 West
Fair Bluff, NC 28439

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by Ply Gem Fence/Railing, 15159 Andrew Jackson Highway 76 West Fair Bluff, NC 28439 to perform dynamic wind load testing in accordance with 2017 Florida Building Code, Building, on various configurations of their PVC privacy fence systems. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at the Intertek B&C test facility in York, PA.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

For INTERTEK B&C:

| | | | |
|----------------------|----------------|---------------------|-----------------------------|
| COMPLETED BY: | Alva R. Baker | REVIEWED BY: | Gary Hartman, P.E. |
| TITLE: | Technician III | TITLE: | Laboratory Support Engineer |
| SIGNATURE: | | SIGNATURE: | |
| DATE: | 01/17/18 | DATE: | 01/17/18 |

| | |
|----------------------|------------------------------|
| COMPLETED BY: | Virgal T. Mickley, Jr., P.E. |
| TITLE: | Senior Staff Engineer |
| SIGNATURE: | |
| DATE: | 01/17/18 |

ARB:vtm/gh/aaa

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SECTION 2

MATERIAL SOURCE/INSTALLATION

Test samples were provided by the client. Test samples were inspected by a representative of Intertek B&C prior to testing. No compromising defects were observed. Representative samples of the test specimen(s) will be retained by Intertek B&C for a minimum of four years from the test completion date.

Test specimens were assembled by an Intertek technician.

SECTION 3

EQUIPMENT

Wind Load Testing

Two propeller fan wind generators were utilized for testing. The propeller of each fan was 84 in. diameter and was comprised of four Kevlar composite airfoil units belt-driven by a high-output V8 engine. Wind speeds for the wind generators were calibrated according to AAMA 501.1-05. Deflections were measured with linear displacement transducers accurate to 0.01 inch

SECTION 4

LIST OF OFFICIAL OBSERVERS

| NAME | COMPANY |
|----------------|-----------------------|
| Frank Mueller | Ply Gem Fence/Railing |
| Adam J. Schrum | Intertek B&C |
| Alva R. Baker | Intertek B&C |

SECTION 5

TEST PROCEDURES

Wind Load Testing

Each specimen consisted of a 2-panel/3-post fully assembled fence section installed onto a steel test fixture that was designed and fabricated to simulate a rigid post embedment. The bottom of the bottom rail was fixed at two inches above the top of the test fixture. The wind generator outlet was located 4 ft. from the face of the specimen. Linear transducers were fixed on the top rail, middle of the in-fill area, and bottom rail for deflection measurements. See drawings in Section 10 for detailed descriptions of assembly and components and photographs in Section 9 for specimen orientation respective to wind direction.

Wind load testing began at 30 mph and increased until failure or a maximum wind speed of 130 mph. Wind loads were performed with a relaxation period following 50 mph and 80 mph to record permanent set measurements.

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SECTION 6

TEST CALCULATIONS

The duration of the applied wind load at each wind speed was determined by using the following equation:

$$t = 3600 / V_{fm} \quad (\text{Equation 1})$$

where:

t = duration (s), required for a one mile long sample of air to pass

V_{fm} = "fastest mile" wind speed (mph)

Wind speeds used in testing correlate with "fastest mile" wind speeds (V_{fm}) for reference to codes and design standards. Maximum deflections were recorded at each load level.

SECTION 7

TEST SPECIMEN DESCRIPTIONS

Sample Set No. 1

| | |
|----------------------------------|--|
| SERIES/MODEL | KS2132 |
| DESCRIPTION | 8 ft wide by 6 ft high (nominal) PVC privacy fence |
| RAILS | Two, 2 in wide by 7 in. high by 94-1/2 in. long (0.110 in./0.070 in. wall) PVC slotted rails per panel with two locking tabs per side on each rail end. |
| BOTTOM RAIL REINFORCEMENT | One, 1-3/4 in. wide by 1-13/16 in. high by 94-1/2 in. long (0.070 in. wall) 6063-T6 aluminum "H"-shaped section. |
| PANELS | Eight, 7/8 in. deep by 11-1/4 in. wide (11-5/8 in. wide including tongue) by 61-1/4 in. long (0.060 in./0.040 in. wall) PVC tongue & groove panels per section slip fit into the slotted rails unless noted otherwise; the two center panels each included two locking tabs per side on each end. The two end panels were each restrained by a 1 in. wide by 1-3/8 in. high by 57-7/8 in. long (0.060 in. wall) PVC U-channel attached to the post with three #10 x 3/4 in. stainless steel pan head screws. |
| POSTS | Three 5 in. by 5 in. by 102 in. long (0.150 in. wall) routed PVC posts |
| POST REINFORCEMENT | One 4-5/8 in. deep by 4-1/2 in. wide by 64 in. long (0.100 in./0.080 in. wall) 6063-T6 aluminum, double-webbed "I"-shaped section; the post reinforcement extended 38 in. above ground level. |
| RAIL ATTACHMENT | Routed holes in the posts captured the ends of the rails. The locking tabs at the rail ends engaged the rail in the post. |

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TEST SPECIMEN DESCRIPTIONS (continued)

Sample Set No. 2

| | |
|----------------------------------|---|
| SERIES/MODEL | KS2130 |
| DESCRIPTION | 8 ft wide by 6 ft high (nominal) PVC privacy fence |
| RAILS | Two, 2 in. wide by 7 in. high by 94-1/2 in. long (0.110 in./0.070 in. wall) PVC slotted rails per panel with two locking tabs per side on each rail end. |
| BOTTOM RAIL REINFORCEMENT | One, 1-3/4 in. wide by 1-13/16 in. high by 94-1/2 in. long (0.070 in. wall) 6063-T6 aluminum "H"-shaped section. |
| PANELS | Fifteen, 7/8 in. deep by 6 in. wide (6-5/16 in. wide including tongue) by 61-1/4 in. long (0.060 in./0.040 in. wall) PVC tongue & groove panels per section slip fit into the slotted rails unless noted otherwise; the three center panels each included two locking tabs per side on each end. The two end panels were each restrained by a 1 in. wide by 1-3/8 in. high by 57-7/8 in. long (0.060 in. wall) PVC U-channel attached to the post with three #10 x 3/4 in. stainless steel pan head screws. |
| POSTS | Three 5 in. by 5 in. by 102 in. long (0.150 in. wall) routed PVC posts |
| POST REINFORCEMENT | One 4-5/8 in. deep by 4-1/2 in. wide by 64 in. long (0.100 in./0.080 in. wall) 6063-T6 aluminum, double-webbed "I"-shaped section; the post reinforcement extended 38 in. above ground level. |
| RAIL ATTACHMENT | Routed holes in the posts captured the ends of the rails. The locking tabs at the rail ends engaged the rail in the post. |

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TEST SPECIMEN DESCRIPTIONS (continued)

Sample Set No. 3

| | |
|----------------------------------|---|
| SERIES/MODEL | KS2129 |
| DESCRIPTION | 8 ft wide by 6 ft high (nominal) PVC privacy fence |
| RAILS | Two, 1-1/2 in. wide by 5-1/2 in. high by 94-1/2 in. long (0.085 in./0.055 in. wall) PVC slotted rails per panel with two locking tabs per side on each rail end. |
| BOTTOM RAIL REINFORCEMENT | One, 1-1/4 in. wide by 2-5/16 in. high by 94-1/2 in. long (0.075 in. wall) 6005-T5 aluminum "I"-shaped section. |
| PANELS | Fifteen, 7/8 in. deep by 6 in. wide (6-5/16 in. wide including tongue) by 64-1/4 in. long (0.060 in./0.040 in. wall) PVC tongue & groove panels per section slip fit into the slotted rails unless noted otherwise; the three center panels each included two locking tabs per side on each end. The two end panels were each restrained by a 1 in. wide by 1-3/8 in. high by 60-7/8 in. long (0.060 in. wall) PVC U-channel attached to the post with three #10 x 3/4 in. stainless steel pan head screws. |
| POSTS | Three 5 in. by 5 in. by 102 in. long (0.150 in. wall) routed PVC posts |
| POST REINFORCEMENT | One 4-5/8 in. deep by 4-1/2 in. wide by 64 in. long (0.100 in./0.080 in. wall) 6063-T6 aluminum, double-webbed "I"-shaped section; the post reinforcement extended 38 in. above ground level. |
| RAIL ATTACHMENT | Routed holes in the posts captured the ends of the rails. The locking tabs at the rail ends engaged the rail in the post. |

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TEST SPECIMEN DESCRIPTIONS (continued)

Sample Set No. 4

| | |
|----------------------------------|--|
| SERIES/MODEL | KS2131 |
| DESCRIPTION | 8 ft wide by 6 ft high (nominal) PVC privacy fence |
| RAILS | Two, 1-1/2 in. wide by 5-1/2 in. high by 94-1/2 in. long (0.085 in./0.055 in. wall) PVC slotted rails per panel with two locking tabs per side on each rail end. |
| BOTTOM RAIL REINFORCEMENT | One, 1-1/4 in. wide by 2-5/16 in. high by 94-1/2 in. long (0.075 in. wall) 6005-T5 aluminum "I"-shaped section. |
| PANELS | Eight, 7/8 in. deep by 11-1/4 in. wide (11-5/8 in. wide including tongue) by 64-1/4 in. long (0.060 in./0.040 in. wall) PVC tongue & groove panels per section slip fit into the slotted rails unless noted otherwise; the two center panels each included two locking tabs per side on each end. The two end panels were each restrained by a 1 in. wide by 1-3/8 in. high by 60-7/8 in. long (0.060 in. wall) PVC U-channel attached to the post with three #10 x 3/4 in. stainless steel pan head screws. |
| POSTS | Three 5 in. by 5 in. by 102 in. long (0.150 in. wall) routed PVC posts |
| POST REINFORCEMENT | One 4-5/8 in. deep by 4-1/2 in. wide by 64 in. long (0.100 in./0.080 in. wall) 6063-T6 aluminum, double-webbed "I"-shaped section; the post reinforcement extended 38 in. above ground level. |
| RAIL ATTACHMENT | Routed holes in the posts captured the ends of the rails. The locking tabs at the rail ends engaged the rail in the post. |

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TEST SPECIMEN DESCRIPTIONS (continued)

Sample Set No. 5

| | |
|---|--|
| SERIES/MODEL | KS2136 |
| DESCRIPTION | 6 ft wide by 8 ft high (nominal) PVC privacy fence |
| RAILS | Three, 2 in. wide by 7 in. high by 72 in. long (0.110 in./0.070 in. wall) PVC slotted rails per panel with two locking tabs per side on each rail end; the center rail had a 7/8 in. wide routed slot along the bottom surface for insertion of the bottom panels. |
| MIDDLE AND BOTTOM RAIL REINFORCEMENT | One, 1-3/4 in. wide by 1-13/16 in. high by 72 in. long (0.070 in. wall) 6063-T6 aluminum "H"-shaped section. |
| PANELS | Twelve (six upper panel and six lower panel), 7/8 in. deep by 11-1/4 in. wide (11-5/8 in. wide including tongue) by 40-3/4 in. long (0.060 in./0.040 in. wall) PVC tongue & groove panels per section slip fit into the slotted rails unless noted otherwise; the four (two upper panel and two lower panel) center panels each included two locking tabs per side on each end. The two end panels were each restrained by a 1 in. wide by 1-3/8 in. high by 37-1/4 in. long(lower panel)/37-1/2 in. long(upper panel) (0.060 in. wall) PVC U-channel attached to the post with two #10 x 3/4 in. stainless steel pan head screws. |
| POSTS | Three 5 in. by 5 in. by 136 in. long (0.150 in. wall) routed PVC posts |
| POST REINFORCEMENT | One 4-5/8 in. deep by 4-1/2 in. wide by 96 in. long (0.100 in./0.080 in. wall) 6063-T6 aluminum, double-webbed "I"-shaped section; the post reinforcement extended 60 in. above ground level. |
| RAIL ATTACHMENT | Routed holes in the posts captured the ends of the rails. The locking tabs at the rail ends engaged the rail in the post. |

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TEST SPECIMEN DESCRIPTIONS (continued)

Sample Set No. 6

| | |
|---|---|
| SERIES/MODEL | KS2135 |
| DESCRIPTION | 6 ft wide by 8 ft high (nominal) PVC privacy fence |
| RAILS | Three, 1-1/2 in. wide by 5-1/2 in. high by 72 in. long (0.085 in./0.055 in. wall) PVC slotted rails per panel with two locking tabs per side on each rail end; the center rail had a 7/8 in. wide routed slot along the bottom surface for insertion of the bottom panels. |
| MIDDLE AND BOTTOM RAIL REINFORCEMENT | One, 1-3/4 in. wide by 1-13/16 in. high by 72 in. long (0.070 in. wall) 6063-T6 aluminum "H"-shaped section. |
| PANELS | Twelve (six upper panel and six lower panel), 7/8 in. deep by 11-1/4 in. wide (11-5/8 in. wide including tongue) by 42-3/4 in. long (0.060 in./0.040 in. wall) PVC tongue & groove panels per section slip fit into the slotted rails unless noted otherwise; the four (two upper panel and two lower panel) center panels each included two locking tabs per side on each end. The two end panels were each restrained by a 1 in. wide by 1-3/8 in. high by 39-7/8 in. long (lower panel)/39-3/8 in. long(upper panel) (0.060 in. wall) PVC U-channel attached to the post with two #10 x 3/4 in. stainless steel pan head screws. |
| POSTS | Three 5 in. by 5 in. by 136 in. long (0.150 in. wall) routed PVC posts |
| POST REINFORCEMENT | One 4-5/8 in. deep by 4-1/2 in. wide by 96 in. long (0.100 in./0.080 in. wall) 6063-T6 aluminum, double-webbed "I"-shaped section; the post reinforcement extended 60 in. above ground level. |
| RAIL ATTACHMENT | Routed holes in the posts captured the ends of the rails. The locking tabs at the rail ends engaged the rail in the post. |

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TEST SPECIMEN DESCRIPTIONS (continued)

Sample Set No. 7

| | |
|---|--|
| SERIES/MODEL | KS2133 |
| DESCRIPTION | 6 ft wide by 8 ft high (nominal) PVC privacy fence |
| RAILS | Three, 1-1/2 in. wide by 5-1/2 in. high by 70-1/2 in. long (0.085 in./0.055 in. wall) PVC slotted rails per panel with two locking tabs per side on each rail end; the center rail had a 7/8 in. wide routed slot along the bottom surface for insertion of the bottom panels. |
| MIDDLE AND BOTTOM RAIL REINFORCEMENT | One, 1-3/4 in. wide by 1-13/16 in. high by 70-1/2 in. long (0.070 in. wall) 6063-T6 aluminum "H"-shaped section. |
| PANELS | Twenty-two (eleven upper panel and eleven lower panel), 7/8 in. deep by 6 in. wide (6-5/16 in. wide including tongue) by 42-3/4 in. long (0.060 in./0.040 in. wall) PVC tongue & groove panels per section slip fit into the slotted rails unless noted otherwise; the six (three upper panel and three lower panel) center panels each included two locking tabs per side on each end. The two end panels were each restrained by a 1 in. wide by 1-3/8 in. high by 39-7/8 in. long (lower panel)/39-3/8 in. long (upper panel) (0.060 in. wall) PVC U-channel attached to the post with two #10 x 3/4 in. stainless steel pan head screws. |
| POSTS | Three 5 in. by 5 in. by 136 in. long (0.150 in. wall) routed PVC posts |
| POST REINFORCEMENT | One 4-5/8 in. deep by 4-1/2 in. wide by 96 in. long (0.100 in./0.080 in. wall) 6063-T6 aluminum, double-webbed "I"-shaped section; the post reinforcement extended 60 in. above ground level. |
| RAIL ATTACHMENT | Routed holes in the posts captured the ends of the rails. The locking tabs at the rail ends engaged the rail in the post. |

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TEST SPECIMEN DESCRIPTIONS (continued)

Sample Set No. 8

| | |
|---|---|
| SERIES/MODEL | KS2134 |
| DESCRIPTION | 6 ft wide by 8 ft high (nominal) PVC privacy fence |
| RAILS | Three, 2 in. wide by 7 in. high by 70-1/2 in. long (0.110 in./0.070 in. wall) PVC slotted rails per panel with two locking tabs per side on each rail end; the center rail had a 7/8 in. wide routed slot along the bottom surface for insertion of the bottom panels. |
| MIDDLE AND BOTTOM RAIL REINFORCEMENT | One, 1-3/4 in. wide by 1-13/16 in. high by 70-1/2 in. long (0.070 in. wall) 6063-T6 aluminum "H"-shaped section. |
| PANELS | Twenty-two (eleven upper panel and eleven lower panel), 7/8 in. deep by 6 in. wide (6-5/16 in. wide including tongue) by 40-3/4 in. long (0.060 in./0.040 in. wall) PVC tongue & groove panels per section slip fit into the slotted rails unless noted otherwise; the six (three upper panel and three lower panel) center panels each included two locking tabs per side on each end. The two end panels were each restrained by a 1 in. wide by 1-3/8 in. high by 37-1/4 in. long(lower panel)/37-1/2 in. long (upper panel) (0.060 in. wall) PVC U-channel attached to the post with two #10 x 3/4 in. stainless steel pan head screws. |
| POSTS | Three 5 in. by 5 in. by 136 in. long (0.150 in. wall) routed PVC posts |
| POST REINFORCEMENT | One 4-5/8 in. deep by 4-1/2 in. wide by 96 in. long (0.100 in./0.080 in. wall) 6063-T6 aluminum, double-webbed "I"-shaped section; the post reinforcement extended 60 in. above ground level. |
| RAIL ATTACHMENT | Routed holes in the posts captured the ends of the rails. The locking tabs at the rail ends engaged the rail in the post. |

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SECTION 8

TEST RESULTS

Sample Set No. 1; Model: KS2132

Specimen No.: 1

Test Date: 10/30/17

| WIND SPEED | DURATION | MAXIMUM DEFLECTION (inches) | | | | | |
|------------|---------------|-----------------------------|-------|------|-------|--------|-------|
| | | Top | | Mid | | Bottom | |
| | | Left | Right | Left | Right | Left | Right |
| 30 mph | 120 sec | 0.65 | 0.90 | 0.57 | 0.79 | 0.21 | 0.29 |
| 40 mph | 90 sec | 0.84 | 1.56 | 1.32 | 1.41 | 0.40 | 0.41 |
| 50 mph | 72 sec | 2.35 | 2.42 | 2.08 | 2.15 | 0.59 | 0.60 |
| 0 mph | Permanent Set | 0.07 | 0.04 | 0.04 | 0.03 | 0.02 | 0.00 |
| 60 mph | 60 sec | 3.14 | 3.45 | 2.70 | 2.98 | 0.74 | 0.78 |
| 70 mph | 51 sec | 3.92 | 4.03 | 3.45 | 3.65 | 0.91 | 0.96 |
| 75 mph | 48 sec | 4.08 | 4.75 | 3.66 | 4.08 | 0.96 | 1.06 |
| 80 mph | 45 sec | 4.64 | 5.20 | 3.89 | 4.43 | 0.99 | 1.13 |
| 0 mph | Permanent Set | 0.17 | 0.13 | 0.16 | 0.18 | 0.06 | 0.04 |
| 90 mph | 40 sec | 6.19 | 6.75 | 5.74 | 6.20 | 1.28 | 1.69 |
| 100 mph | 36 sec | 7.56 | 8.05 | 6.37 | 7.08 | 1.42 | 1.88 |
| 110 mph | 33 sec | 8.18 | 8.94 | 6.81 | 7.60 | 1.57 | 2.02 |
| 115 mph | 32 sec | 8.41 | 9.56 | 6.95 | 8.88 | 1.61 | 2.40 |

Observation: Specimen successfully withstood 115 mph wind speed without failure; specimen failed attempting to reach 120 mph.

Maximum Sustained Wind, $V_{fm} = 115$ mph

Equivalent 3-second gust, $V_{3s} = (1.05 \times V_{fm}) + 10.5 = 131$ mph

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TEST RESULTS (continued)

Sample Set No. 2; Model: KS2130

Specimen No.: 1

Test Date: 10/30/17

| WIND SPEED | DURATION | MAXIMUM DEFLECTION (inches) | | | | | |
|------------|---------------|-----------------------------|-------|------|-------|--------|-------|
| | | Top | | Mid | | Bottom | |
| | | Left | Right | Left | Right | Left | Right |
| 30 mph | 120 sec | 0.69 | 0.80 | 0.48 | 0.59 | 0.10 | 0.18 |
| 40 mph | 90 sec | 1.02 | 1.10 | 0.89 | 0.99 | 0.24 | 0.27 |
| 50 mph | 72 sec | 2.08 | 2.18 | 1.56 | 1.73 | 0.41 | 0.48 |
| 0 mph | Permanent Set | 0.22 | 0.03 | 0.07 | 0.11 | 0.05 | 0.07 |
| 60 mph | 60 sec | 3.06 | 2.97 | 2.37 | 2.49 | 0.60 | 0.69 |
| 70 mph | 51 sec | 3.77 | 3.71 | 2.95 | 3.24 | 0.75 | 0.89 |
| 75 mph | 48 sec | 4.48 | 4.68 | 3.41 | 3.94 | 0.83 | 1.06 |
| 80 mph | 45 sec | 4.64 | 5.23 | 3.59 | 4.23 | 0.86 | 1.13 |
| 0 mph | Permanent Set | 0.31 | 0.20 | 0.07 | 0.03 | 0.01 | 0.03 |
| 90 mph | 40 sec | 6.84 | 6.58 | 5.23 | 5.57 | 1.18 | 2.67 |
| 100 mph | 36 sec | 7.21 | n/a | 5.58 | 6.45 | 1.26 | n/a |
| 110 mph | 33 sec | 8.12 | n/a | 6.01 | 7.48 | 1.39 | n/a |
| 115 mph | 32 sec | 9.23 | n/a | 7.26 | 7.97 | 1.63 | n/a |

*Observation: Specimen successfully withstood 115 mph wind speed without failure;
specimen failed attempting to reach 120 mph.
n/a indicates transducer disconnected from specimen during test.*

Maximum Sustained Wind, $V_{fm} = 115$ mph

Equivalent 3-second gust, $V_{3s} = (1.05 \times V_{fm}) + 10.5 = 131$ mph

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TEST RESULTS (continued)

Sample Set No. 3; Model: KS2129

Specimen No.: 1

Test Date: 10/31/17

| WIND SPEED | DURATION | MAXIMUM DEFLECTION (inches) | | | | | |
|------------|---------------|-----------------------------|-------|------|-------|--------|-------|
| | | Top | | Mid | | Bottom | |
| | | Left | Right | Left | Right | Left | Right |
| 30 mph | 120 sec | 1.70 | 1.72 | 1.49 | 1.54 | 0.72 | 0.83 |
| 40 mph | 90 sec | 2.66 | 2.88 | 2.24 | 2.50 | 1.08 | 1.26 |
| 50 mph | 72 sec | 5.08 | 4.48 | 4.32 | 3.83 | 2.02 | 1.94 |
| 0 mph | Permanent Set | 0.12 | 0.11 | 0.13 | 0.11 | 0.06 | 0.08 |
| 60 mph | 60 sec | 5.55 | 7.12 | 4.95 | 5.97 | 2.60 | 2.94 |
| 70 mph | 51 sec | 7.78 | 9.19 | 6.43 | 7.85 | 3.01 | 4.07 |
| 75 mph | 48 sec | 8.91 | 10.16 | 7.44 | 8.57 | 3.56 | 4.73 |
| 80 mph | 45 sec | 10.03 | 11.26 | 8.31 | 9.81 | 4.02 | 5.37 |
| 0 mph | Permanent Set | 0.52 | 0.55 | 0.38 | 0.68 | 0.19 | 0.49 |

Observation: Specimen successfully withstood 80 mph wind speed without failure; specimen failed attempting to reach 90 mph.

Maximum Sustained Wind, $V_{fm} = 80$ mph

Equivalent 3-second gust, $V_{3s} = (1.05 \times V_{fm}) + 10.5 = 95$ mph

TEST REPORT FOR PLY GEM FENCE/RAILING

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TEST RESULTS (continued)

Sample Set No. 4; Model: KS2131

Specimen No.: 1

Test Date: 10/31/17

| WIND SPEED | DURATION | MAXIMUM DEFLECTION (inches) | | | | | |
|------------|---------------|-----------------------------|-------|------|-------|--------|-------|
| | | Top | | Mid | | Bottom | |
| | | Left | Right | Left | Right | Left | Right |
| 30 mph | 120 sec | 1.21 | 1.68 | 0.99 | 1.42 | 0.48 | 0.72 |
| 40 mph | 90 sec | 2.47 | 3.03 | 2.02 | 2.68 | 0.97 | 1.39 |
| 50 mph | 72 sec | 5.24 | 5.11 | 4.35 | 4.55 | 2.04 | 2.31 |
| 0 mph | Permanent Set | 0.17 | 0.13 | 0.14 | 0.17 | 0.01 | 0.07 |
| 60 mph | 60 sec | 6.89 | 6.73 | 5.69 | 5.88 | 2.68 | 2.89 |
| 70 mph | 51 sec | 7.72 | 8.61 | 6.70 | 7.48 | 3.20 | 3.90 |
| 75 mph | 48 sec | 9.22 | 9.56 | 7.52 | 8.43 | 3.56 | 4.15 |
| 80 mph | 45 sec | 10.78 | 10.15 | 8.89 | 8.84 | 4.21 | 4.72 |
| 0 mph | Permanent Set | 0.50 | 0.48 | 0.31 | 0.48 | 0.11 | 0.38 |

Observation: Specimen successfully withstood 80 mph wind speed without failure; specimen failed attempting to reach 90 mph.

Maximum Sustained Wind, $V_{fm} = 80$ mph

Equivalent 3-second gust, $V_{3s} = (1.05 \times V_{fm}) + 10.5 = 95$ mph

TEST REPORT FOR PLY GEM FENCE/RAILING

Report No.: H0431.01-119-19-R1

Date: 01/15/18

TEST RESULTS (continued)

Sample Set No. 4; Model: KS2131

Specimen No.: 2

Test Date: 10/31/17

| WIND SPEED | DURATION | MAXIMUM DEFLECTION (inches) | | | | | |
|------------|---------------|-----------------------------|-------|------|-------|--------|-------|
| | | Top | | Mid | | Bottom | |
| | | Left | Right | Left | Right | Left | Right |
| 30 mph | 120 sec | 0.89 | 1.14 | 0.70 | 1.12 | 0.27 | 0.68 |
| 40 mph | 90 sec | 1.51 | 1.97 | 1.66 | 2.17 | 0.93 | 1.30 |
| 50 mph | 72 sec | 2.70 | 2.70 | 2.74 | 2.88 | 1.57 | 1.72 |
| 0 mph | Permanent Set | 0.06 | 0.06 | 0.11 | 0.08 | 0.05 | 0.03 |
| 60 mph | 60 sec | 3.82 | 3.59 | 3.95 | 4.05 | 2.26 | 2.50 |
| 70 mph | 51 sec | 4.45 | 5.13 | 4.60 | 5.42 | 2.52 | 3.29 |
| 75 mph | 48 sec | 5.74 | 6.15 | 5.72 | 6.46 | 3.17 | 3.90 |
| 80 mph | 45 sec | 6.10 | 6.74 | 5.99 | 7.15 | 3.31 | 4.67 |
| 0 mph | Permanent Set | 0.26 | 0.37 | 0.16 | 0.37 | 0.07 | 0.51 |

Observation: Specimen successfully withstood 80 mph wind speed without failure; specimen failed attempting to reach 90 mph.

Maximum Sustained Wind, $V_{fm} = 80$ mph

Equivalent 3-second gust, $V_{3s} = (1.05 \times V_{fm}) + 10.5 = 95$ mph

TEST REPORT FOR PLY GEM FENCE/RAILING

Report No.: H0431.01-119-19-R1

Date: 01/15/18

TEST RESULTS (continued)

Sample Set No. 5; Model: KS2136

Specimen No.: 1

Test Date: 10/31/17

| WIND SPEED | DURATION | MAXIMUM DEFLECTION (inches) | | | | | |
|------------|---------------|-----------------------------|-------|------|-------|--------|-------|
| | | Top | | Mid | | Bottom | |
| | | Left | Right | Left | Right | Left | Right |
| 30 mph | 120 sec | 0.41 | 0.69 | 0.38 | 0.54 | 0.17 | 0.33 |
| 40 mph | 90 sec | 1.07 | 1.20 | 0.75 | 0.83 | 0.34 | 0.42 |
| 50 mph | 72 sec | 1.89 | 1.95 | 1.27 | 1.32 | 0.53 | 0.65 |
| 0 mph | Permanent Set | 0.09 | 0.04 | 0.07 | 0.05 | 0.09 | 0.10 |
| 60 mph | 60 sec | 2.37 | 2.60 | 1.55 | 1.75 | 0.63 | 0.79 |
| 70 mph | 51 sec | 2.93 | 2.96 | 2.03 | 2.07 | 0.79 | 1.03 |
| 75 mph | 48 sec | 3.39 | 3.63 | 2.25 | 2.51 | 0.90 | 1.17 |
| 80 mph | 45 sec | 3.68 | 4.17 | 2.30 | 2.95 | 0.97 | 1.31 |
| 0 mph | Permanent Set | 0.27 | 0.28 | 0.20 | 0.26 | 0.11 | 0.15 |
| 90 mph | 40 sec | 4.88 | 5.55 | 3.31 | 3.72 | 1.53 | 1.73 |
| 100 mph | 36 sec | n/a | 6.42 | 3.56 | 4.86 | n/a | n/a |
| 110 mph | 33 sec | n/a | 7.98 | 4.10 | 5.05 | n/a | n/a |
| 115 mph | 32 sec | n/a | 14.36 | 4.70 | 6.51 | n/a | n/a |
| 120 mph | 30 sec | n/a | n/a | 5.99 | 7.41 | n/a | n/a |

Observation: Specimen successfully withstood 120 mph wind speed without failure; specimen failed attempting to reach 130 mph.

n/a indicates transducer disconnected from specimen during test.

Maximum Sustained Wind, $V_{fm} = 120$ mph

Equivalent 3-second gust, $V_{3s} = (1.05 \times V_{fm}) + 10.5 = 137$ mph

TEST REPORT FOR PLY GEM FENCE/RAILING

Report No.: H0431.01-119-19-R1

Date: 01/15/18

TEST RESULTS (continued)

Sample Set No. 6; Model: KS2135

Specimen No.: 1

Test Date: 11/1/17

| WIND SPEED | DURATION | MAXIMUM DEFLECTION (inches) | | | | | |
|------------|---------------|-----------------------------|-------|------|-------|--------|-------|
| | | Top | | Mid | | Bottom | |
| | | Left | Right | Left | Right | Left | Right |
| 30 mph | 120 sec | 0.70 | 0.80 | 0.45 | 0.36 | 0.14 | 0.13 |
| 40 mph | 90 sec | 1.05 | 0.95 | 0.78 | 0.63 | 0.27 | 0.27 |
| 50 mph | 72 sec | 1.86 | 1.96 | 1.26 | 1.28 | 0.43 | 0.46 |
| 0 mph | Permanent Set | 0.14 | 0.13 | 0.11 | 0.08 | 0.04 | 0.06 |
| 60 mph | 60 sec | 2.40 | 2.52 | 1.70 | 1.63 | 0.57 | 0.60 |
| 70 mph | 51 sec | 3.02 | 2.99 | 2.02 | 1.88 | 0.72 | 0.73 |
| 75 mph | 48 sec | 3.33 | 3.32 | 2.31 | 2.10 | 0.77 | 0.79 |
| 80 mph | 45 sec | 3.89 | 3.85 | 2.61 | 2.50 | 0.90 | 0.89 |
| 0 mph | Permanent Set | 0.23 | 0.17 | 0.16 | 0.12 | 0.04 | 0.10 |
| 90 mph | 40 sec | 5.56 | 5.03 | 3.73 | 3.17 | 1.28 | 3.09 |
| 100 mph | 36 sec | 6.76 | 5.89 | 4.50 | 3.66 | n/a | 3.20 |
| 110 mph | 33 sec | n/a | 6.51 | 4.96 | 4.25 | n/a | 3.46 |
| 115 mph | 32 sec | n/a | 7.60 | 5.99 | 4.68 | n/a | n/a |
| 120 mph | 30 sec | n/a | n/a | 6.94 | 5.50 | n/a | n/a |

Observation: Specimen successfully withstood 120 mph wind speed without failure; specimen failed attempting to reach 130 mph.

n/a indicates transducer disconnected from specimen during test.

Maximum Sustained Wind, $V_{fm} = 120$ mph

Equivalent 3-second gust, $V_{3s} = (1.05 \times V_{fm}) + 10.5 = 137$ mph

TEST REPORT FOR PLY GEM FENCE/RAILING

Report No.: H0431.01-119-19-R1

Date: 01/15/18

TEST RESULTS (continued)

Sample Set No. 7; Model: KS2133

Specimen No.: 1

Test Date: 11/1/17

| WIND SPEED | DURATION | MAXIMUM DEFLECTION (inches) | | | | | |
|------------|---------------|-----------------------------|-------|------|-------|--------|-------|
| | | Top | | Mid | | Bottom | |
| | | Left | Right | Left | Right | Left | Right |
| 30 mph | 120 sec | 0.56 | 0.61 | 0.32 | 0.35 | 0.10 | 0.14 |
| 40 mph | 90 sec | 0.84 | 0.70 | 0.45 | 0.36 | 0.13 | 0.14 |
| 50 mph | 72 sec | 1.33 | 1.35 | 0.65 | 0.64 | 0.18 | 0.21 |
| 0 mph | Permanent Set | 0.04 | 0.06 | 0.09 | 0.05 | 0.03 | 0.01 |
| 60 mph | 60 sec | 1.90 | 1.85 | 0.91 | 0.85 | 0.25 | 0.26 |
| 70 mph | 51 sec | 2.36 | 2.44 | 1.11 | 1.08 | 0.31 | 0.32 |
| 75 mph | 48 sec | 2.72 | 2.59 | 1.27 | 1.12 | 0.35 | 0.32 |
| 80 mph | 45 sec | 3.03 | 2.94 | 1.39 | 1.26 | 0.40 | 0.36 |
| 0 mph | Permanent Set | 0.23 | 0.19 | 0.18 | 0.11 | 0.07 | 0.02 |
| 90 mph | 40 sec | 4.15 | 3.86 | 1.77 | 1.62 | 0.55 | 0.46 |
| 100 mph | 36 sec | 4.73 | 4.53 | 2.00 | 1.82 | 0.57 | 0.48 |
| 110 mph | 33 sec | 5.16 | 4.92 | 2.14 | 1.99 | 0.67 | 0.59 |
| 115 mph | 32 sec | 5.89 | 5.76 | 2.37 | 2.22 | 0.70 | 0.61 |
| 120 mph | 30 sec | 6.76 | 6.47 | 2.73 | 2.42 | n/a | n/a |
| 130 mph | 28 sec | 7.52 | 7.71 | 2.96 | n/a | n/a | n/a |

Observation: Specimen successfully withstood 120 mph wind speed without failure; specimen failed attempting to reach 130 mph.

n/a indicates transducer disconnected from specimen during test.

Maximum Sustained Wind, $V_{fm} = 130$ mph

Equivalent 3-second gust, $V_{3s} = (1.05 \times V_{fm}) + 10.5 = 147$ mph

TEST REPORT FOR PLY GEM FENCE/RAILING

Report No.: H0431.01-119-19-R1

Date: 01/15/18

TEST RESULTS (continued)

Sample Set No. 8; Model: KS2134

Specimen No.: 1

Test Date: 11/8/17

| WIND SPEED | DURATION | MAXIMUM DEFLECTION (inches) | | | | | |
|------------|---------------|-----------------------------|-------|------|-------|--------|-------|
| | | Top | | Mid | | Bottom | |
| | | Left | Right | Left | Right | Left | Right |
| 30 mph | 120 sec | 0.43 | 0.48 | 0.23 | 0.26 | 0.07 | 0.01 |
| 40 mph | 90 sec | 0.82 | 0.89 | 0.42 | 0.43 | 0.11 | 0.15 |
| 50 mph | 72 sec | 1.36 | 1.47 | 0.68 | 0.70 | 0.18 | 0.20 |
| 0 mph | Permanent Set | 0.15 | 0.13 | 0.10 | 0.08 | 0.02 | 0.03 |
| 60 mph | 60 sec | 1.79 | 1.72 | 0.87 | 0.82 | 0.23 | 0.25 |
| 70 mph | 51 sec | 2.30 | 2.50 | 1.08 | 1.13 | 0.29 | 0.35 |
| 75 mph | 48 sec | 2.47 | 2.72 | 1.16 | 1.22 | 0.31 | 0.36 |
| 80 mph | 45 sec | 2.67 | 2.87 | 1.21 | 1.32 | 0.31 | 0.40 |
| 0 mph | Permanent Set | 0.24 | 0.27 | 0.18 | 0.16 | 0.03 | 0.06 |
| 90 mph | 40 sec | 3.56 | 3.90 | 1.61 | 1.69 | 0.40 | 0.49 |
| 100 mph | 36 sec | 4.01 | 4.73 | 1.79 | 1.93 | 0.45 | 0.57 |
| 110 mph | 33 sec | 4.77 | 5.13 | 2.01 | 2.11 | 0.53 | 0.60 |
| 115 mph | 32 sec | 5.26 | 5.96 | 2.17 | 2.34 | 0.54 | 0.66 |
| 120 mph | 30 sec | n/a | n/a | 2.49 | 2.68 | 0.68 | 0.80 |
| 130 mph | 28 sec | n/a | n/a | 2.71 | 2.92 | 0.84 | 0.84 |

Observation: Specimen successfully withstood 120 mph wind speed without failure; specimen failed attempting to reach 130 mph.

n/a indicates transducer disconnected from specimen during test.

Maximum Sustained Wind, $V_{fm} = 130$ mph

Equivalent 3-second gust, $V_{3s} = (1.05 \times V_{fm}) + 10.5 = 147$ mph

TEST REPORT FOR PLY GEM FENCE/RAILING

Report No.: H0431.01-119-19-R1

Date: 01/15/18

SECTION 9 PHOTOGRAPHS



Photo No. 1
Test Specimen in Rigid Test Fixture



Photo No. 2
Transducer Locations on Backside of Fence Panels



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TEST REPORT FOR PLY GEM FENCE/RAILING

Report No.: H0431.01-119-19-R1

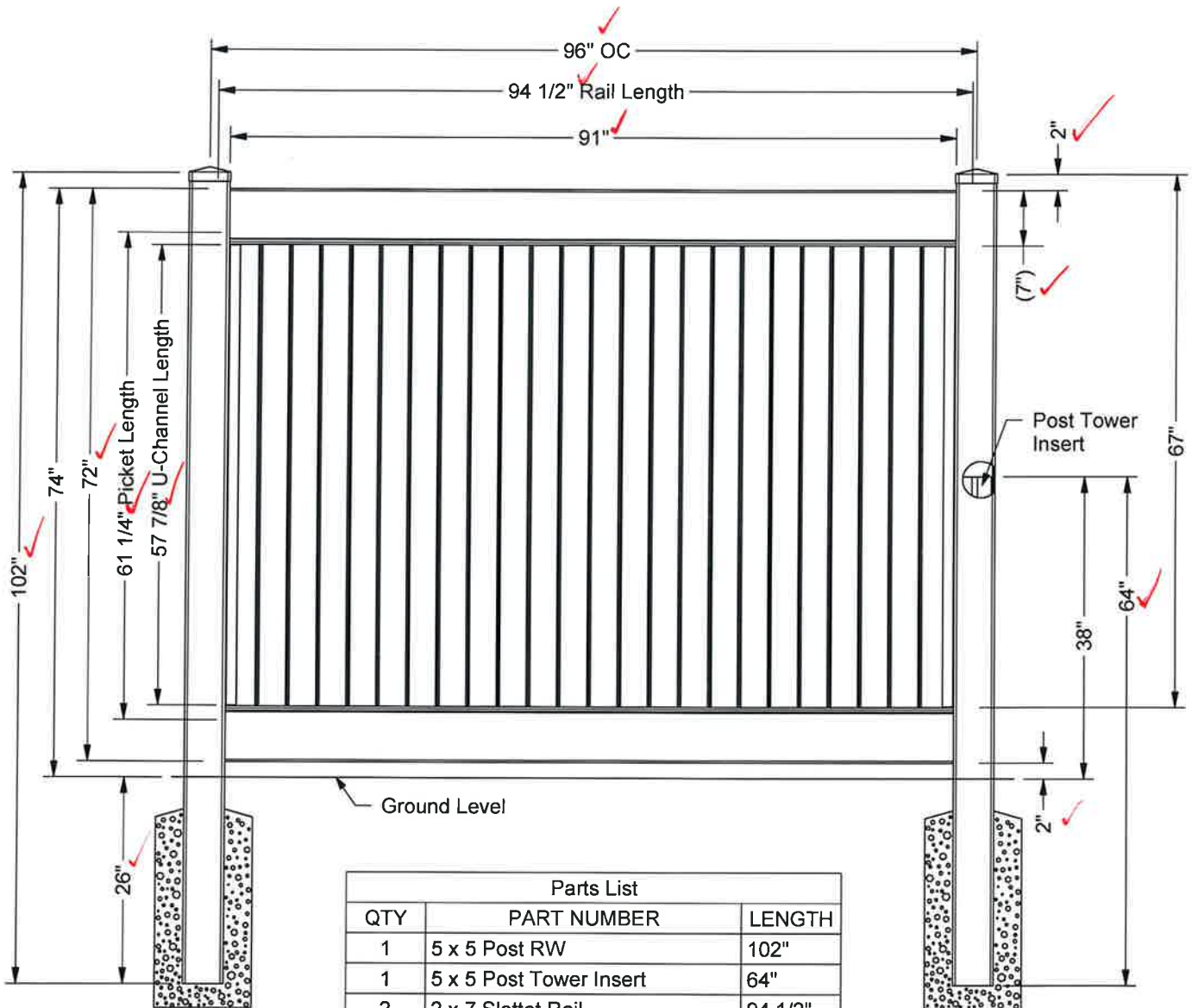
Date: 01/15/18

SECTION 10 DRAWINGS

The "As-Built" drawings for the various PVC privacy fence systems which follow have been reviewed by Intertek B&C and are representative of the project reported herein. Project construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.

72" H x 96" W Solid Privacy

with 2 x 7 Rails & 7/8 x 11 1/4 T&G Pickets



| Parts List | | |
|------------|-------------------------|---------|
| QTY | PART NUMBER | LENGTH |
| 1 | 5 x 5 Post RW | 102" |
| 1 | 5 x 5 Post Tower Insert | 64" |
| 2 | 2 x 7 Slotted Rail | 94 1/2" |
| 1 | 2 x 7 H-Channel Insert | 94 1/2" |
| 8 | 7/8 x 11 1/4" Picket | 61 1/4" |
| 2 | 7/8 U-Channel | 57 7/8" |
| 6 | #10 x 3/4" Screw | 3/4" |
| 1 | 5 x 5 External Long Cap | N/A |

Architectural Testing

Test sample complies with these details.
Deviations are noted.

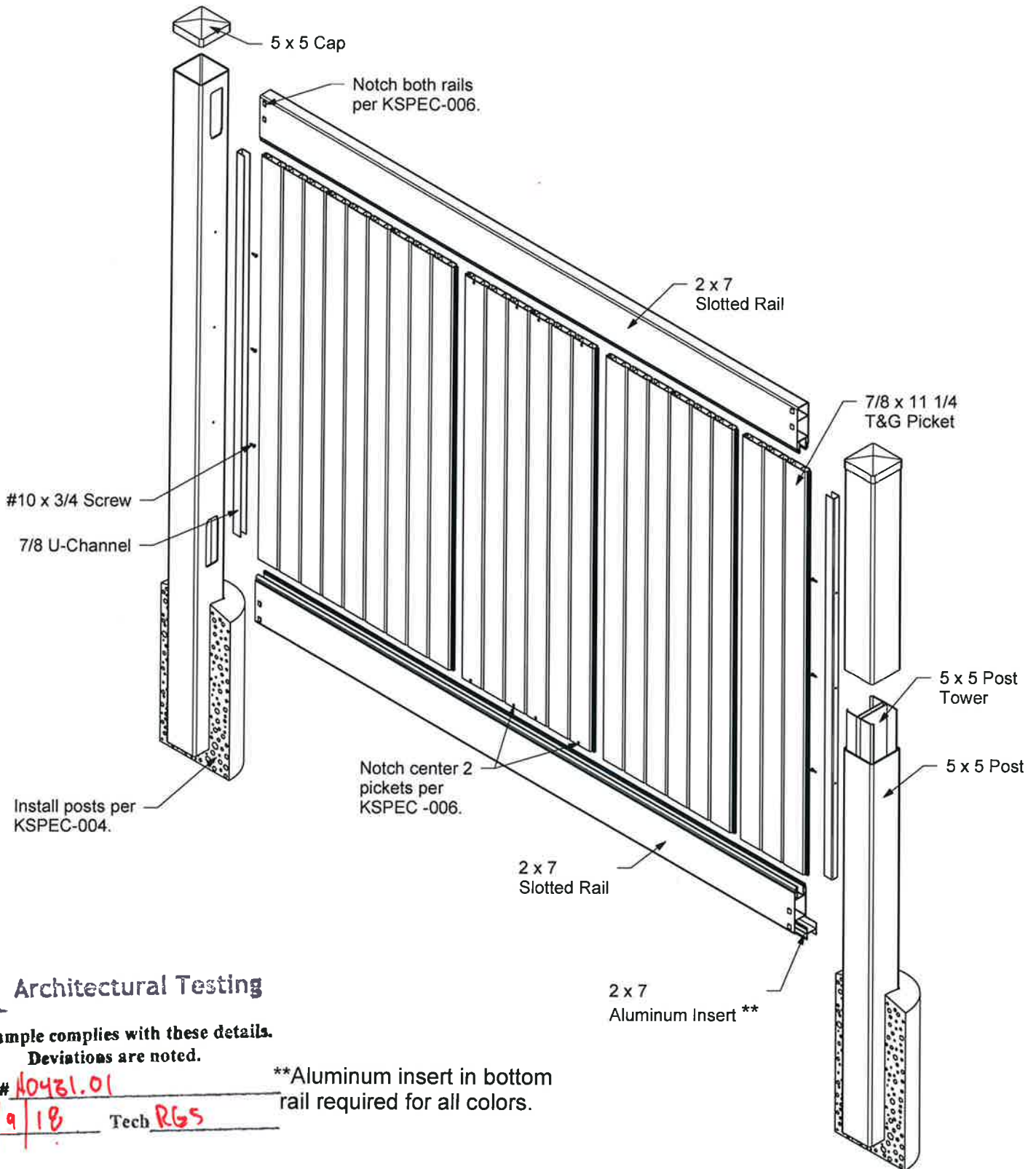
Report # 40431.01
Date 1/9/18 Tech RLS

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KS2132
Sheet 1 of 2
03-13-17

72" H x 96" W Solid Privacy

with 2 x7 Rails & 7/8 x 11 1/4 T&G Pickets



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report # 10431.01
Date 1/9/18 Tech RGS

**Aluminum insert in bottom rail required for all colors.

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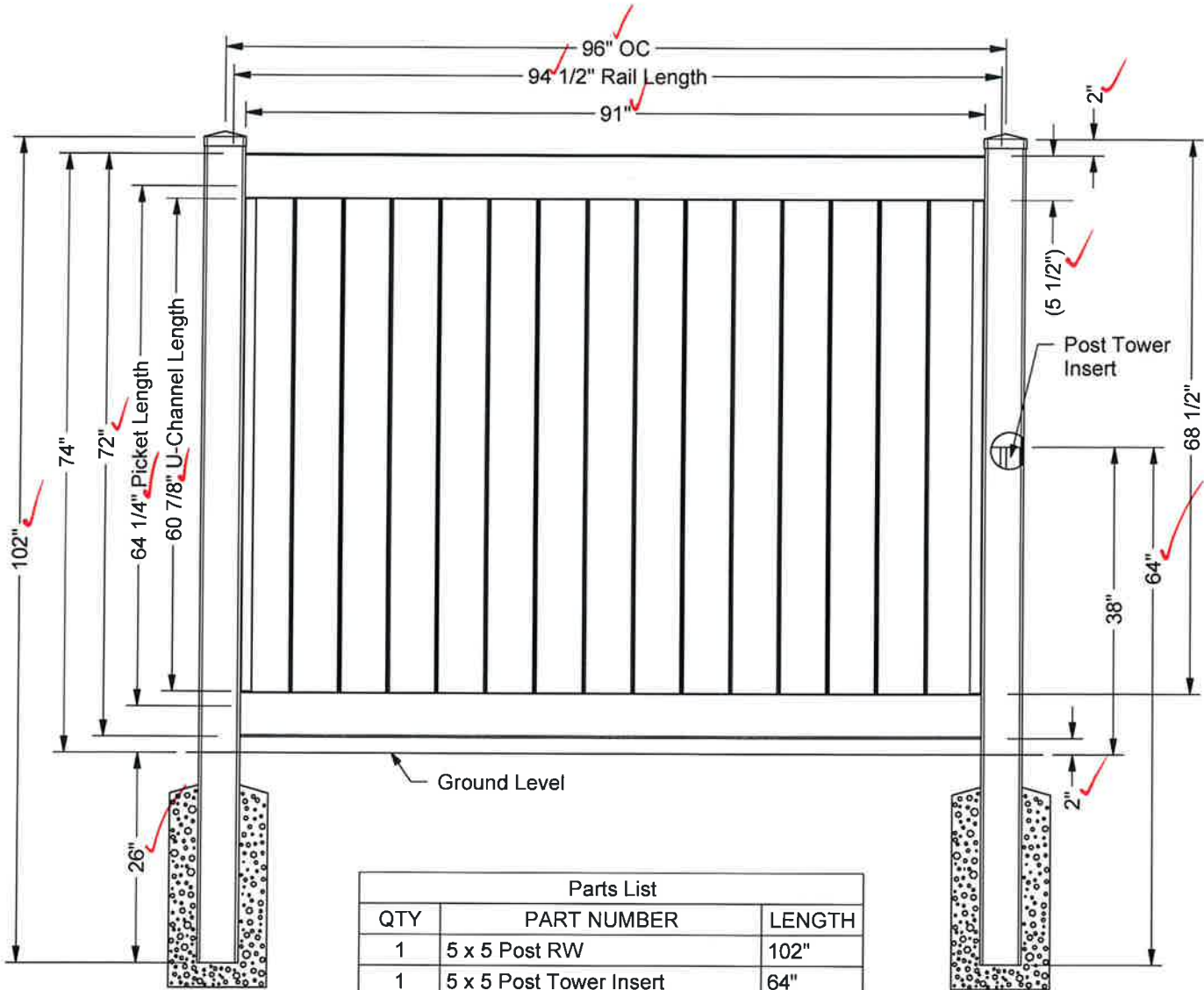
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Sheet 2 of 2
03-13-17

72" H x 96" W Solid Privacy

with 1 1/2 x 5 1/2 Rail & 7/8 x 6 T&G Picket



| Parts List | | |
|------------|----------------------------|---------|
| QTY | PART NUMBER | LENGTH |
| 1 | 5 x 5 Post RW | 102" |
| 1 | 5 x 5 Post Tower Insert | 64" |
| 2 | 1 1/2 x 5 1/2 Slotted Rail | 94 1/2" |
| 1 | 1 1/2 x 5 1/2 Sltd Insert | 94 1/2" |
| 15 | 7/8 x 6 Picket | 64 1/4" |
| 2 | 7/8 U-Channel | 60 7/8" |
| 6 | #10 x 3/4" Screw | 3/4" |
| 1 | 5 x 5 External Long Cap | N/A |

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report # 10431.01
Date 1/9/18 Tech RG/S

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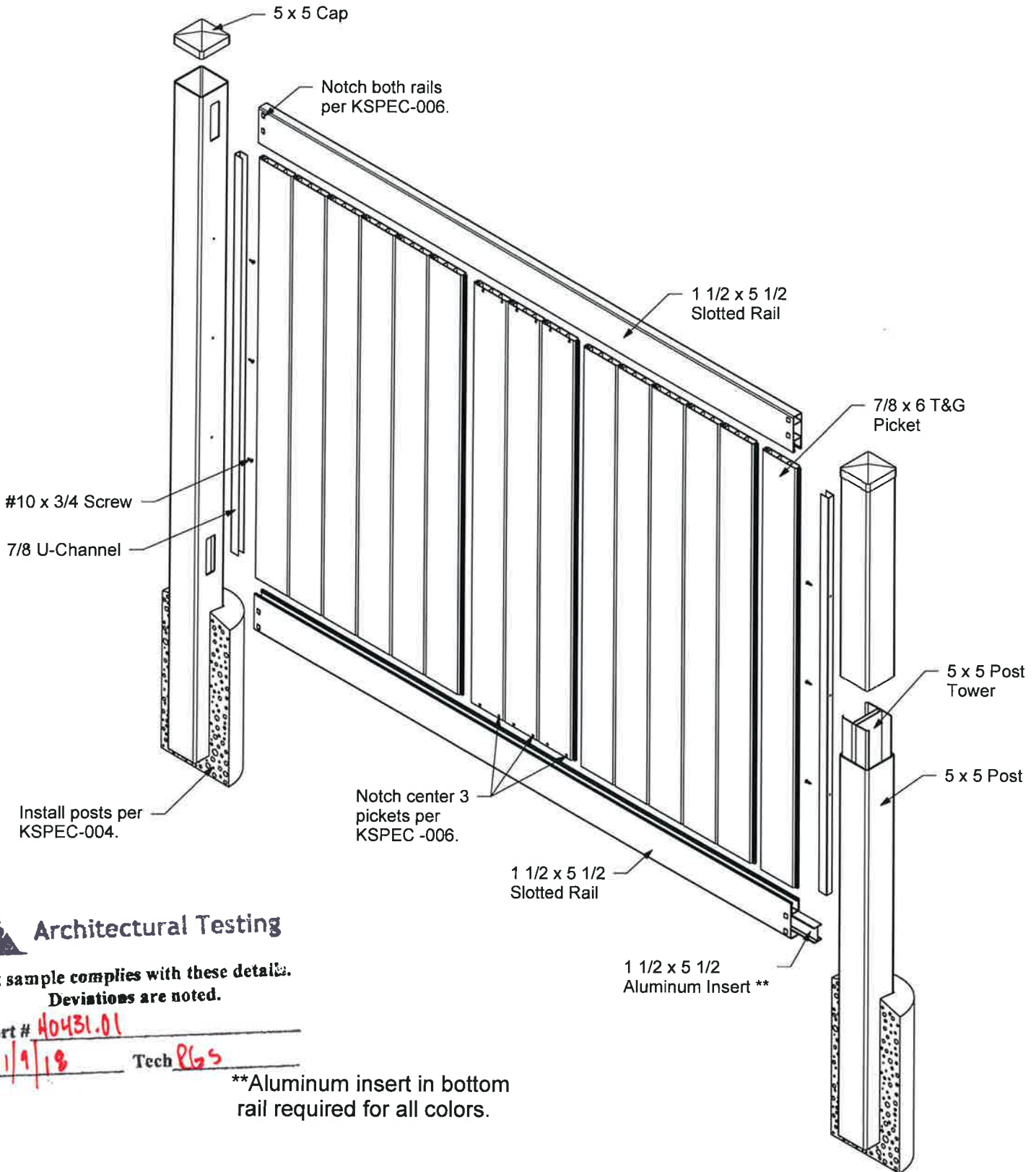
KS2129

Sheet 1 of 2
03-13-17

72" H x 96" W Solid Privacy



with 1 1/2 x 5 1/2 Rails & 7/8 x 6 T&G Pickets



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report # 40431.01
Date 1/9/18 Tech PLG

**Aluminum insert in bottom rail required for all colors.

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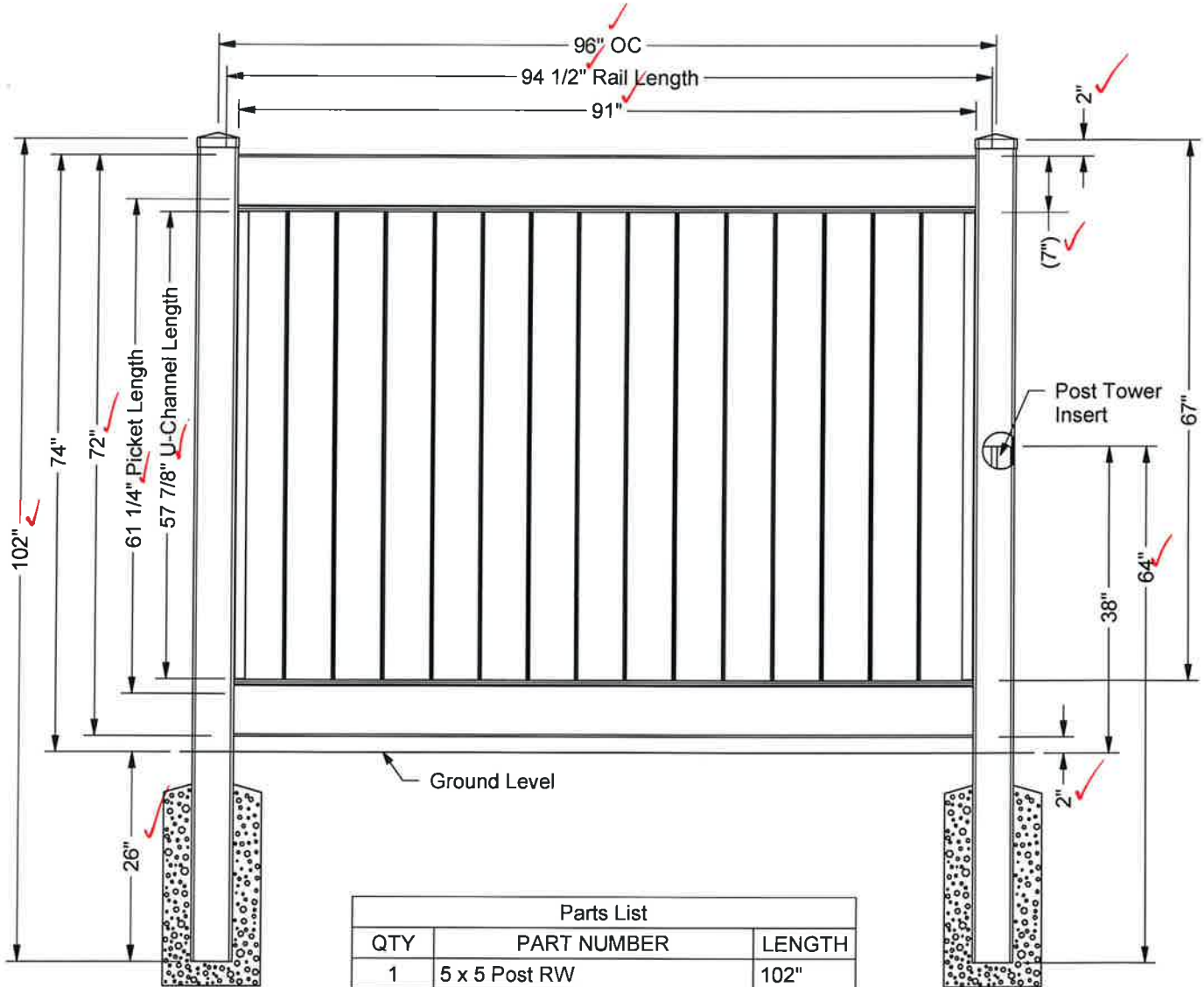
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Sheet 2 of 2
03-13-17

72" H x 96" W Solid Privacy

with 2 x 7 Rails & 7/8 x 6 T&G Pickets



| Parts List | | |
|------------|-------------------------|---------|
| QTY | PART NUMBER | LENGTH |
| 1 | 5 x 5 Post RW | 102" |
| 1 | 5 x 5 Post Tower Insert | 64" |
| 2 | 2 x 7 Slotted Rail | 94 1/2" |
| 1 | 2 x 7 H-Channel Insert | 94 1/2" |
| 15 | 7/8 x 6 Picket | 61 1/4" |
| 2 | 7/8 U-Channel | 57 7/8" |
| 6 | #10 x 3/4" Screw | 3/4" |
| 1 | 5 x 5 External Long Cap | N/A |

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report # A0431.01
Date 1/9/18 Tech RG5

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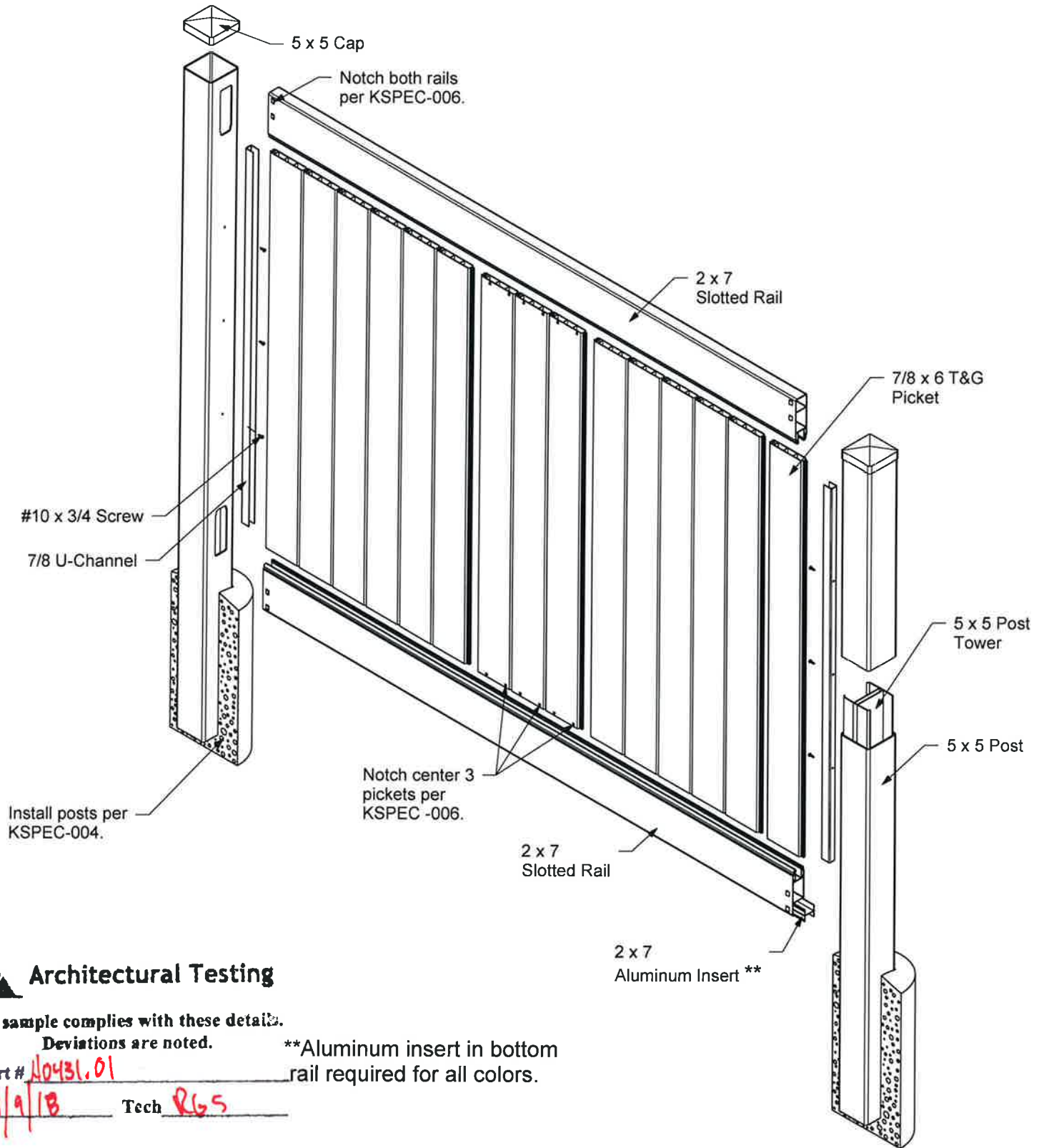
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Sheet 1 of 2
03-13-17

72" H x 96" W Solid Privacy

with 2 x 7 Rails & 7/8 x 6 T&G Pickets



Architectural Testing

Test sample complies with these details.
 Deviations are noted.

Report # 110431.01

Date 1/9/18 Tech RGS

**Aluminum insert in bottom rail required for all colors.

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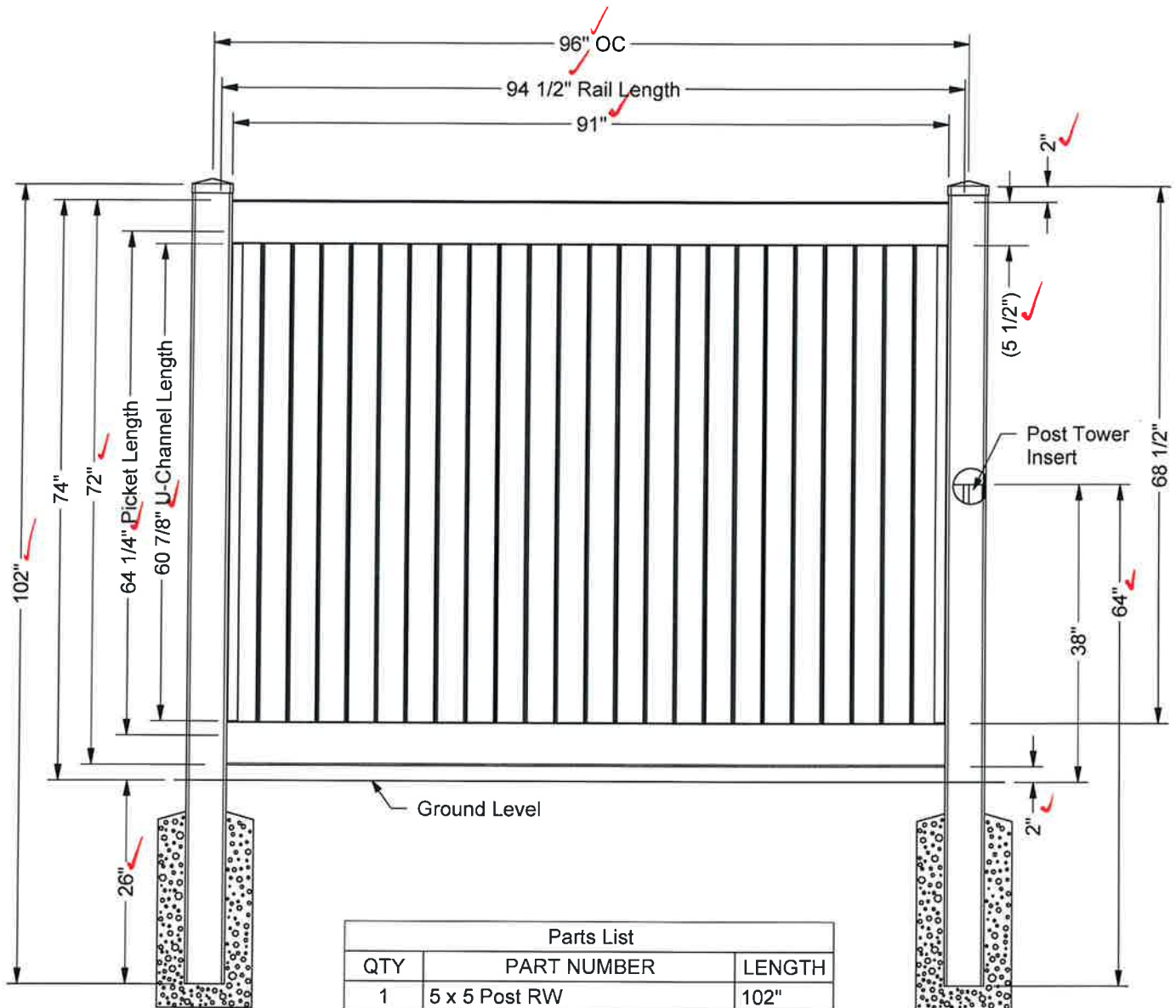
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Sheet 2 of 2
03-13-17

72" H x 96" W Solid Privacy

with 1 1/2 x 5 1/2 Rails & 7/8 x 11 1/4 T&G Pickets



| Parts List | | |
|------------|----------------------------|---------|
| QTY | PART NUMBER | LENGTH |
| 1 | 5 x 5 Post RW | 102" |
| 1 | 5 x 5 Post Tower Insert | 64" |
| 2 | 1 1/2 x 5 1/2 Slotted Rail | 94 1/2" |
| 1 | 1 1/2 x 5 1/2 Sltd Insert | 94 1/2" |
| 8 | 7/8 x 11 1/4" Picket | 64 1/4" |
| 2 | 7/8 U-Channel | 60 7/8" |
| 6 | #10 x 3/4" Screw | 3/4" |
| 1 | 5 x 5 External Long Cap | N/A |

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report # 10431.01

Date 1/9/18 Tech RLS

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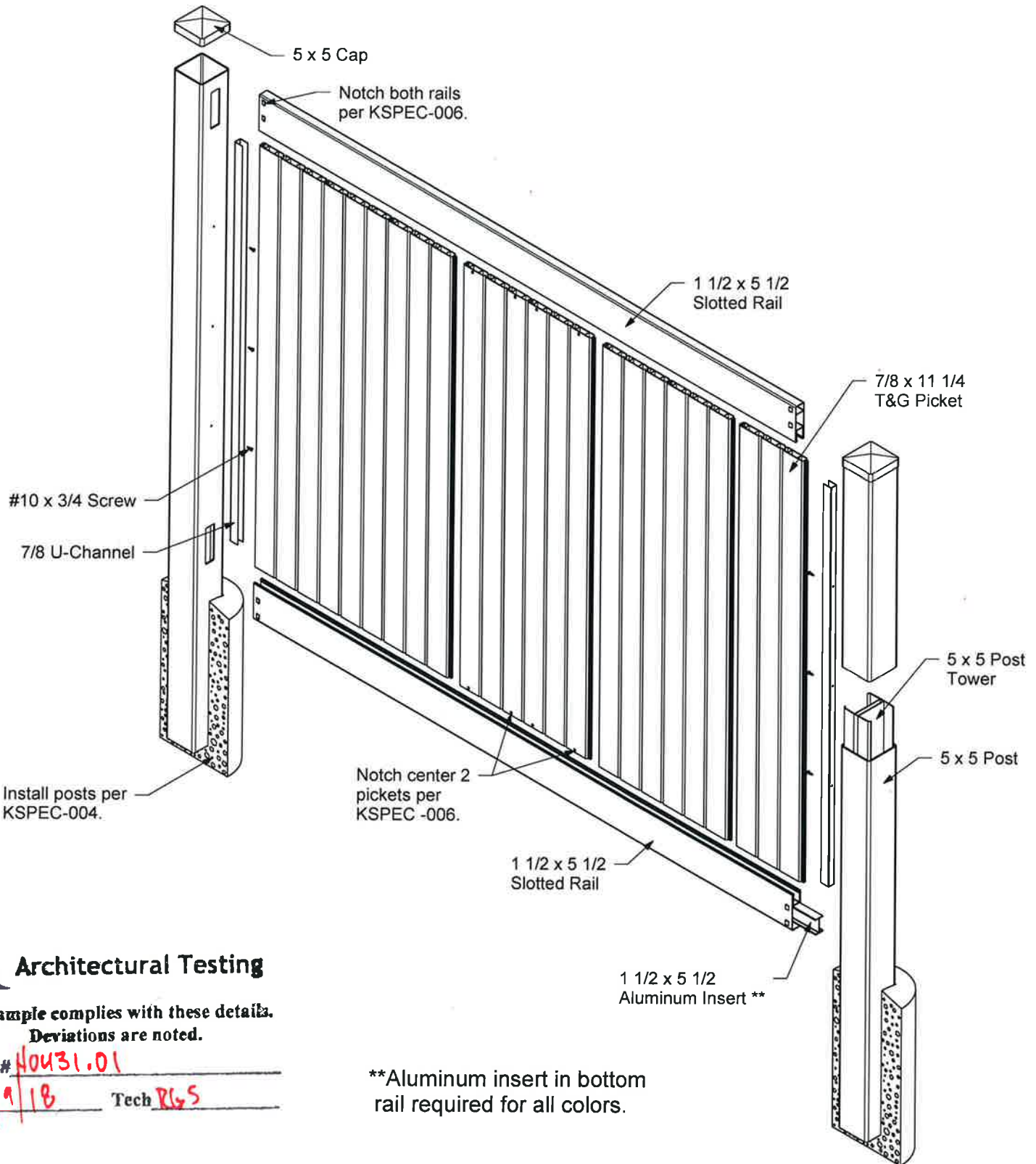
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Sheet 1 of 2
03-13-17

72" H x 96" W Solid Privacy

with 1 1/2 x 5 1/2 Rails & 7/8 x 11 1/4 T&G Pickets



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report # H0431.01
Date 11/9/18 Tech RG5

**Aluminum insert in bottom rail required for all colors.

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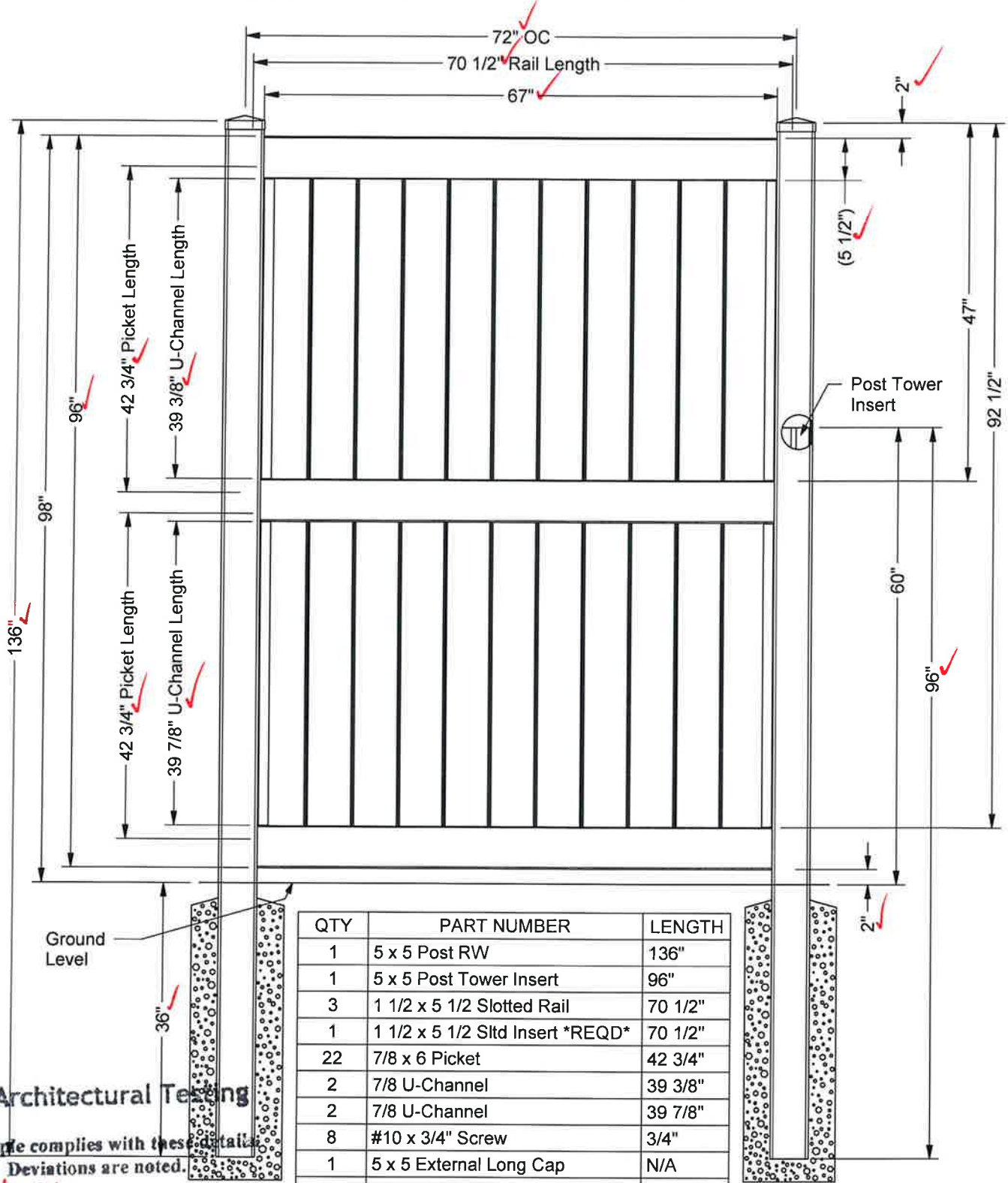
KS2131

Sheet 2 of 2
03-13-17

96" H x 72" W Solid Privacy



with 1 1/2 x 5 1/2 Rail & 7/8 x 6 T&G Picket



| QTY | PART NUMBER | LENGTH |
|-----|----------------------------------|---------|
| 1 | 5 x 5 Post RW | 136" |
| 1 | 5 x 5 Post Tower Insert | 96" |
| 3 | 1 1/2 x 5 1/2 Slotted Rail | 70 1/2" |
| 1 | 1 1/2 x 5 1/2 Sltd Insert *REQD* | 70 1/2" |
| 22 | 7/8 x 6 Picket | 42 3/4" |
| 2 | 7/8 U-Channel | 39 3/8" |
| 2 | 7/8 U-Channel | 39 7/8" |
| 8 | #10 x 3/4" Screw | 3/4" |
| 1 | 5 x 5 External Long Cap | N/A |
| | Insert for Khaki and WS colors | |
| 1 | 1 1/2 x 5 1/2 Sltd Insert | 70 1/2" |

Architectural Testing
 Test sample complies with these details.
 Deviations are noted.

Report # 10431.01
 Date 1/9/18 Tech RG5

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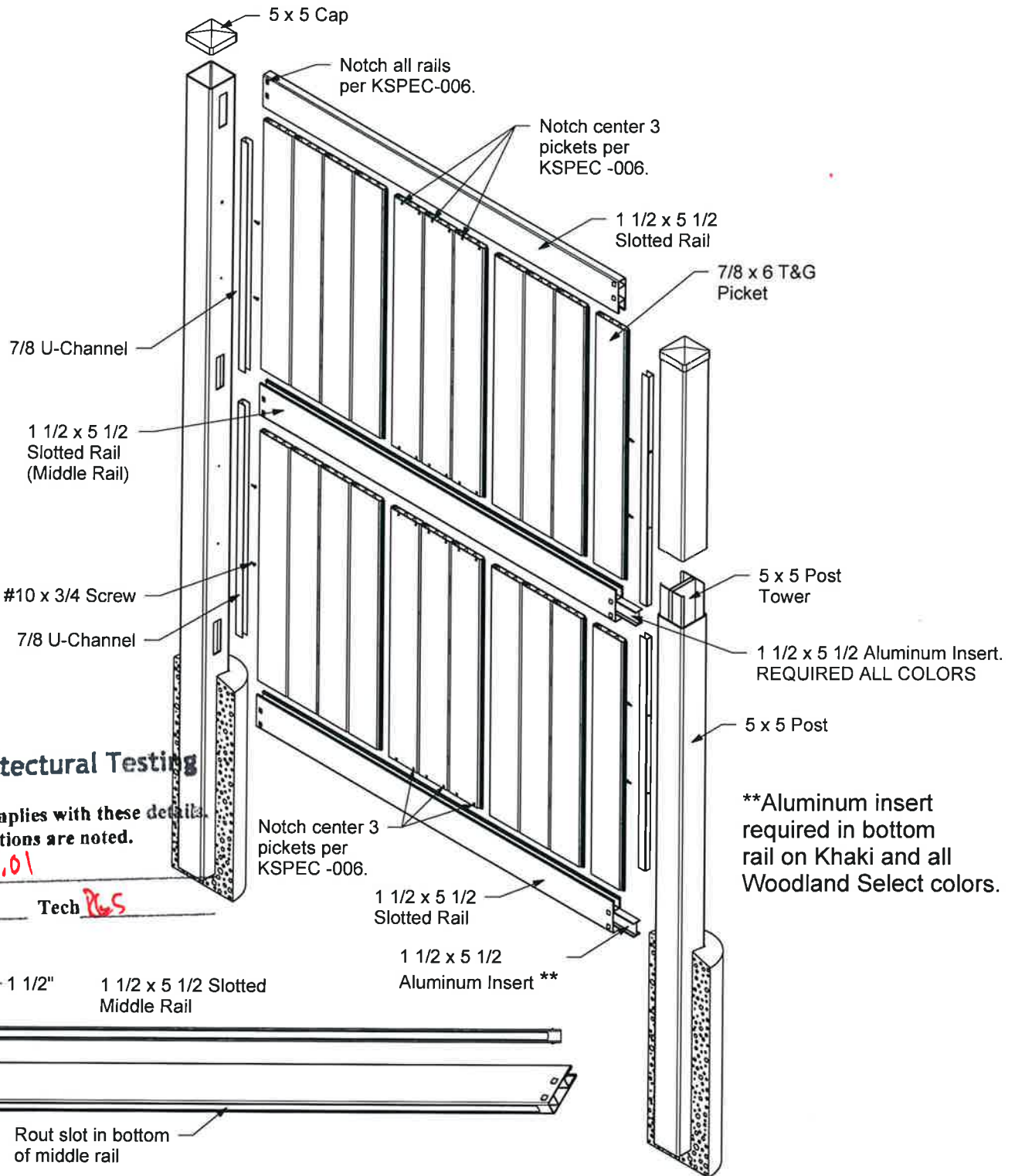
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Sheet 1 of 2
 03-14-17

96" H x 72" W Solid Privacy

with 1 1/2 x 5 1/2 Rail & 7/8 x 6 T&G Picket



**Aluminum insert required in bottom rail on Khaki and all Woodland Select colors.



Test sample complies with these details. Deviations are noted.

Report # H0431.01

Date 1/9/18 Tech RS

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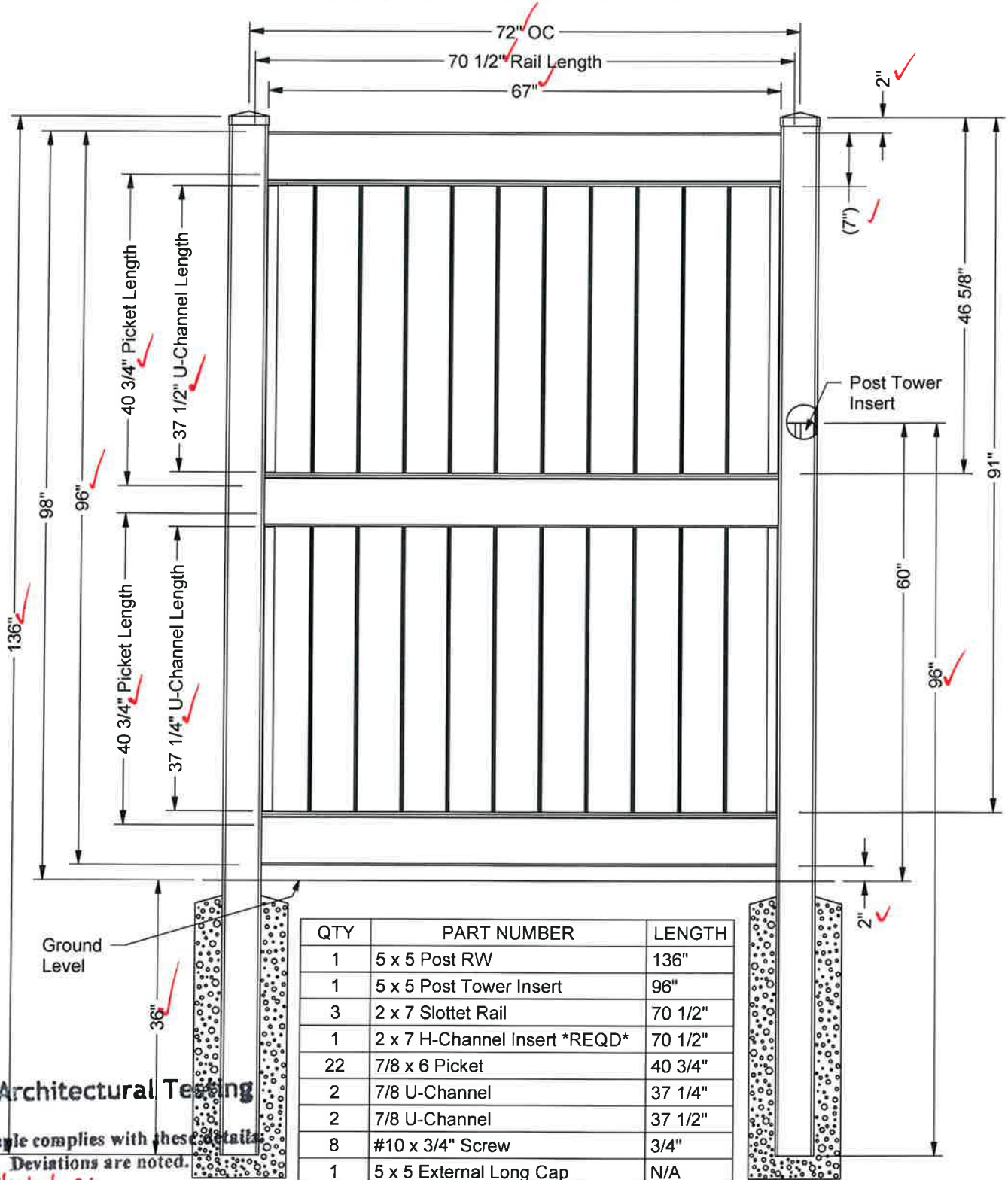
KS2133

Sheet 2 of 2
03-14-17

96" H x 72" W Solid Privacy



with 2 x 7 Rail & 7/8 x 6 T&G Picket



Ground Level

| QTY | PART NUMBER | LENGTH |
|-----|--------------------------------|---------|
| 1 | 5 x 5 Post RW | 136" |
| 1 | 5 x 5 Post Tower Insert | 96" |
| 3 | 2 x 7 Slotted Rail | 70 1/2" |
| 1 | 2 x 7 H-Channel Insert *REQD* | 70 1/2" |
| 22 | 7/8 x 6 Picket | 40 3/4" |
| 2 | 7/8 U-Channel | 37 1/4" |
| 2 | 7/8 U-Channel | 37 1/2" |
| 8 | #10 x 3/4" Screw | 3/4" |
| 1 | 5 x 5 External Long Cap | N/A |
| | Insert for Khaki and WS colors | |
| 1 | 2 x 7 H-Channel Insert | 70 1/2" |

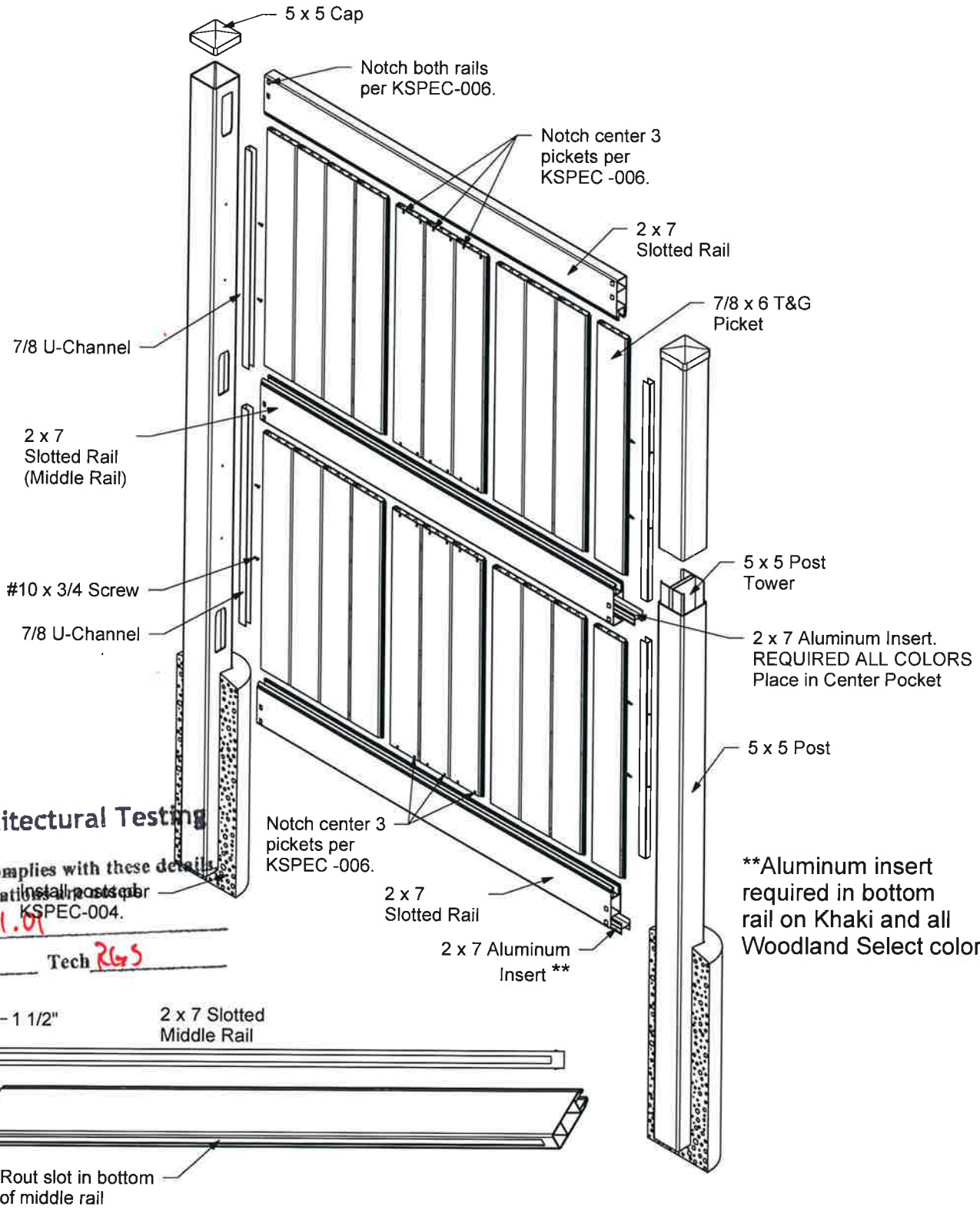
Architectural Testing
 Test sample complies with these details.
 Deviations are noted.
 Report # 10431.01
 Date 1/9/18 Tech RGS

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KS2134
 Sheet 1 of 2
 03-14-17

96" H x 72" W Solid Privacy

with 2 x 7 Rail & 7/8 x 6 T&G Picket



Architectural Testing

Test sample complies with these details

Deviation from posts per KSPEC-004.

Report # 10421.01

Date 1/9/18 Tech RG5

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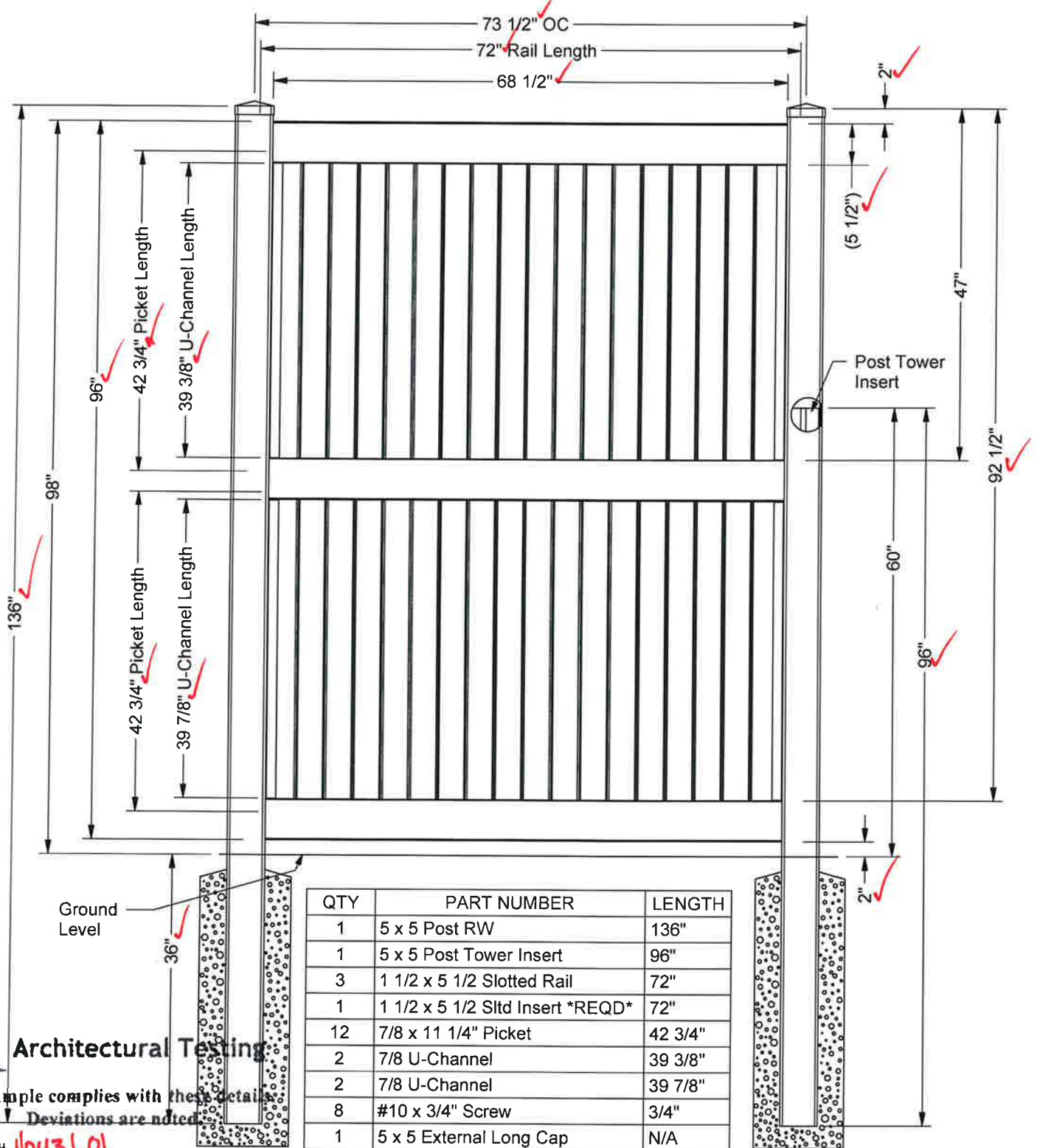
KS2134

Sheet 2 of 2
03-14-17

96" H x 73 1/2" W Solid Privacy



with 1 1/2 x 5 1/2 Rail & 7/8 x 11 1/4 T&G Picket



Test sample complies with these details
Deviations are noted

Report # 10431.01

Date 1/9/18 Tech RGS

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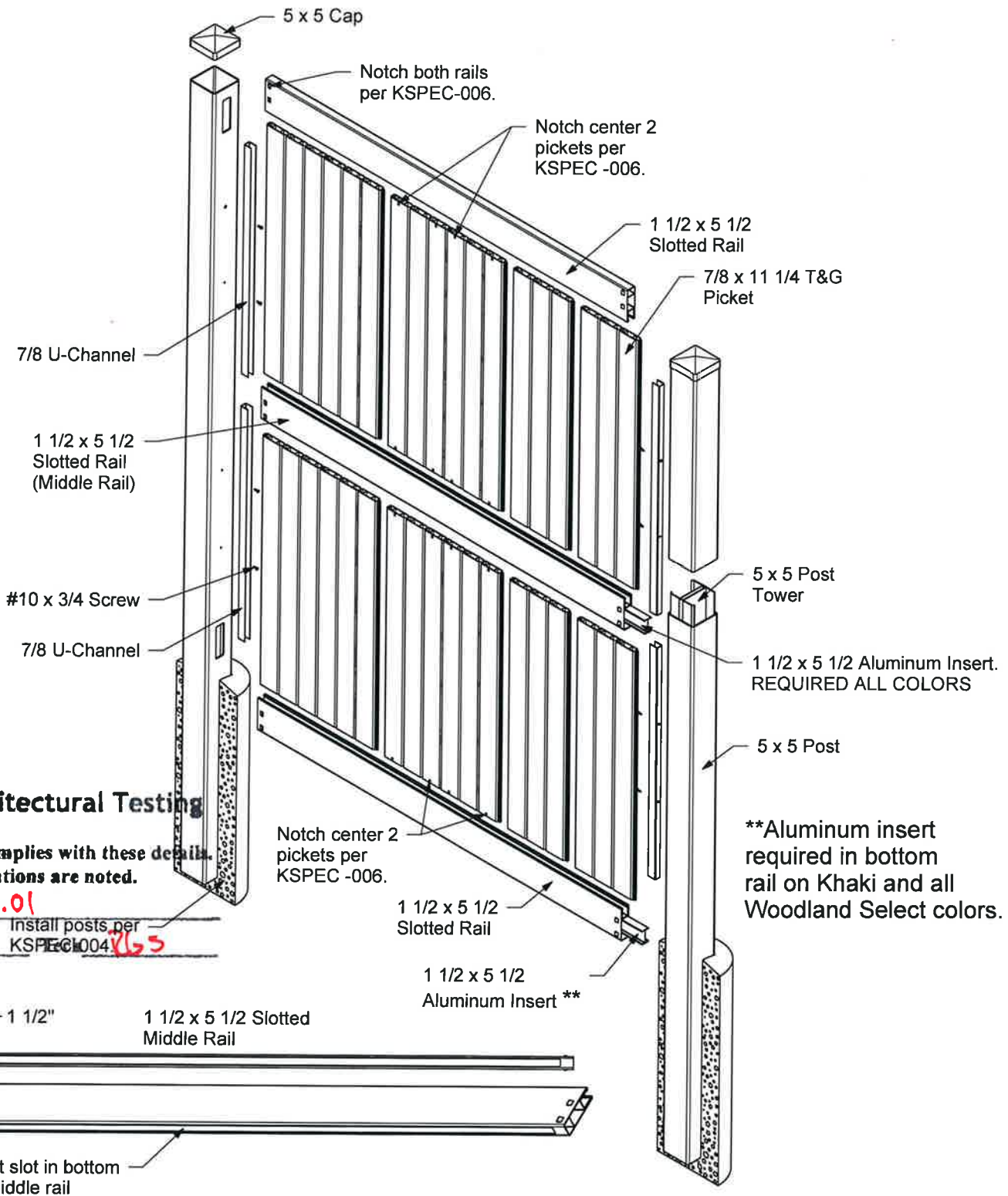
DRAWINGS ARE CONFIDENTIAL AND ARE THE PROPERTY OF PLY GEM FENCE & RAILING © MAR 2017.

KS2135

Sheet 1 of 2
03-15-17

96" H x 73 1/2" W Solid Privacy FENCE & RAILING

with 1 1/2 x 5 1/2 Rail & 7/8 x 11 1/4 T&G Picket



**Aluminum insert required in bottom rail on Khaki and all Woodland Select colors.

Architectural Testing
 Test sample complies with these details. Deviations are noted.
 Report # H0431.01
 Date 1/9/18 Install posts per KSPEC-004 263

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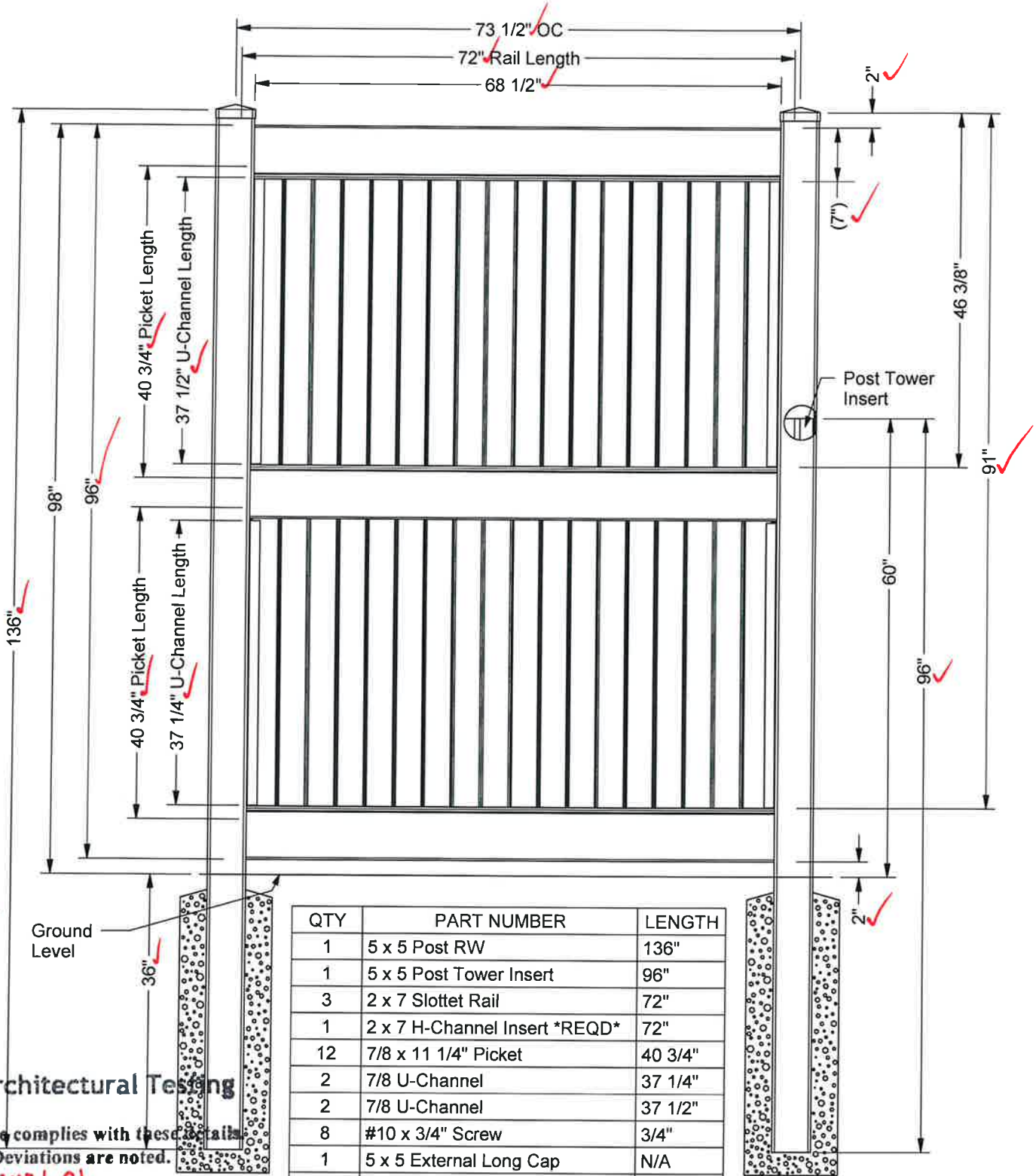
KS2135

Sheet 2 of 2
03-15-17

96" H x 73 1/2" W Solid Privacy



with 2 x 7 Rail & 7/8 x 11 1/4 T&G Picket



| QTY | PART NUMBER | LENGTH |
|-----|--------------------------------|---------|
| 1 | 5 x 5 Post RW | 136" |
| 1 | 5 x 5 Post Tower Insert | 96" |
| 3 | 2 x 7 Slotted Rail | 72" |
| 1 | 2 x 7 H-Channel Insert *REQD* | 72" |
| 12 | 7/8 x 11 1/4" Picket | 40 3/4" |
| 2 | 7/8 U-Channel | 37 1/4" |
| 2 | 7/8 U-Channel | 37 1/2" |
| 8 | #10 x 3/4" Screw | 3/4" |
| 1 | 5 x 5 External Long Cap | N/A |
| 1 | Insert for Khaki and WS colors | |
| 1 | 2 x 7 H-Channel Insert | 72" |

Architectural Testing

Test sample complies with these details. Deviations are noted.

Report # M0431.01

Date 11/9/18

Tech RLS

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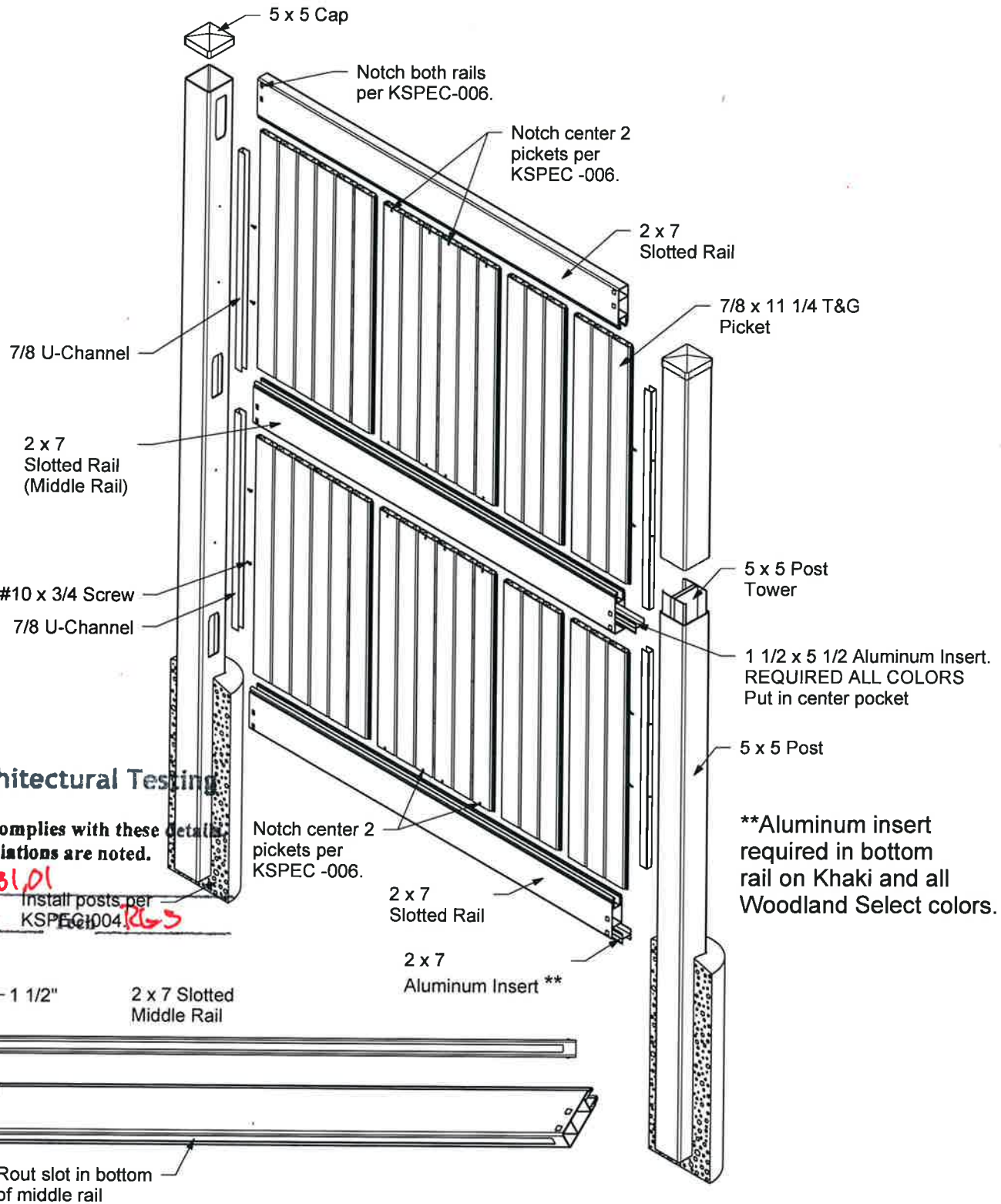
KS2136

Sheet 1 of 2
03-15-17

96" H x 73 1/2" W Solid Privacy



with 2 x 7 Rail & 7/8 x 11 1/4 T&G Picket



**Aluminum insert required in bottom rail on Khaki and all Woodland Select colors.

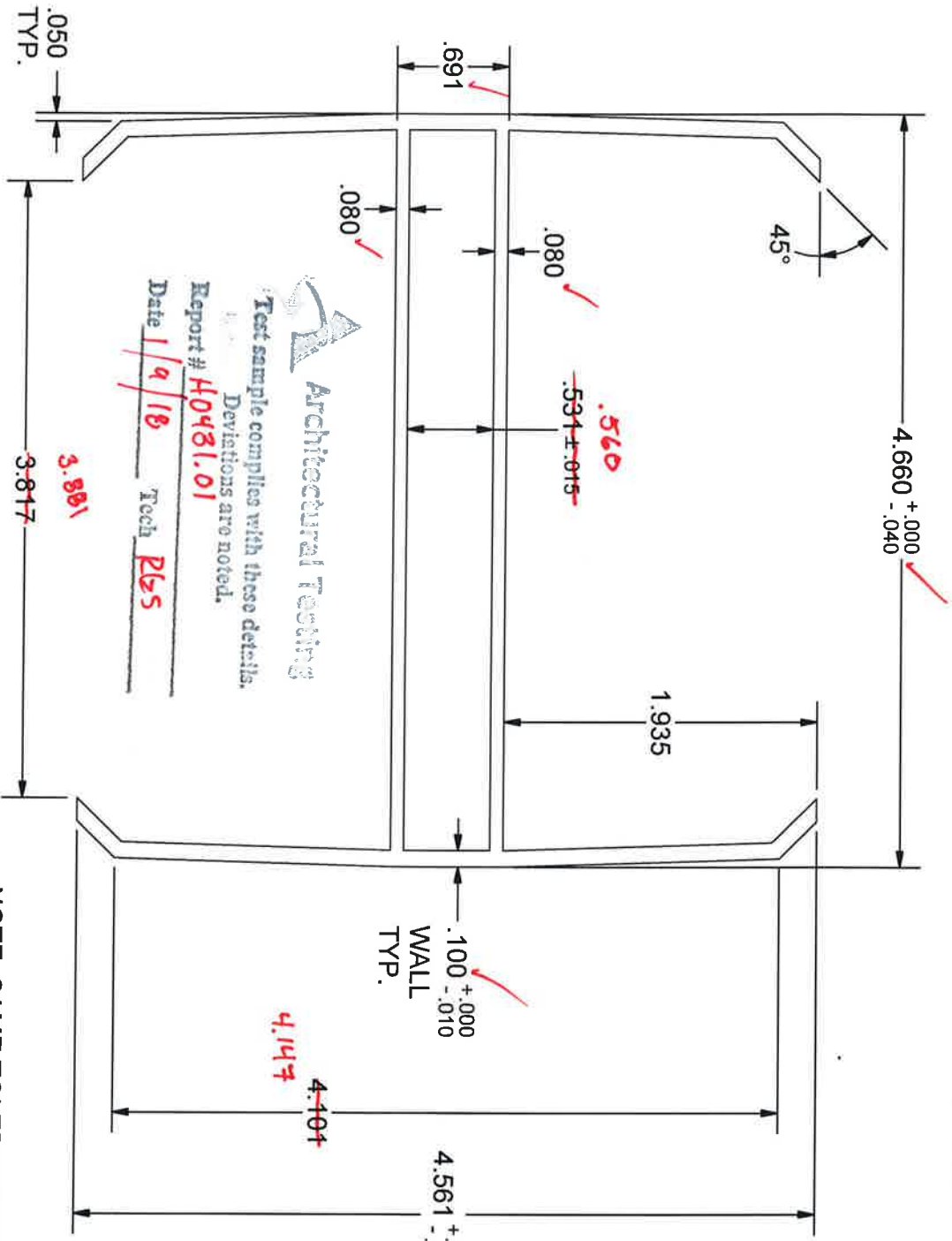
Architectural Testing

Test sample complies with these details. Deviations are noted.

Report # 40431.01
 Date 1/9/18
 Install posts per KSPEC 004 RG5

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KS2136
 Sheet 2 of 2
 03-15-17



Architectural Testing
 Test sample complies with these details.
 Deviations are noted.
 Report # H0481.01
 Date 1/9/18 Tech PLS

NOTE: SAME TOLERANCES APPLIED FROM 4 X 4

MAKE FROM
 6063-T6
 ALUMINUM

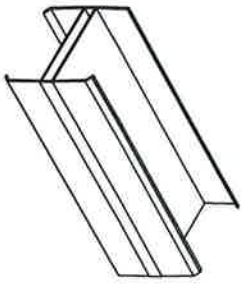
Do Not Scale Drawing
 Unless Otherwise Specified
 Dimensions are in Inches

Tolerances
 x ± .030 xx ± .010 xxx ± .005
 Angular ± 30' Fractions ± 1/16
 Break all Sharp Edges .003-.015
 Fillets .020-.040
 Walls +.000 -.015

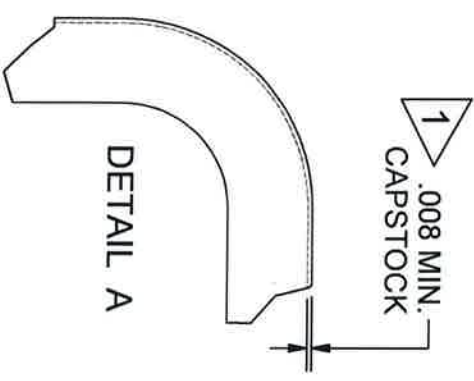
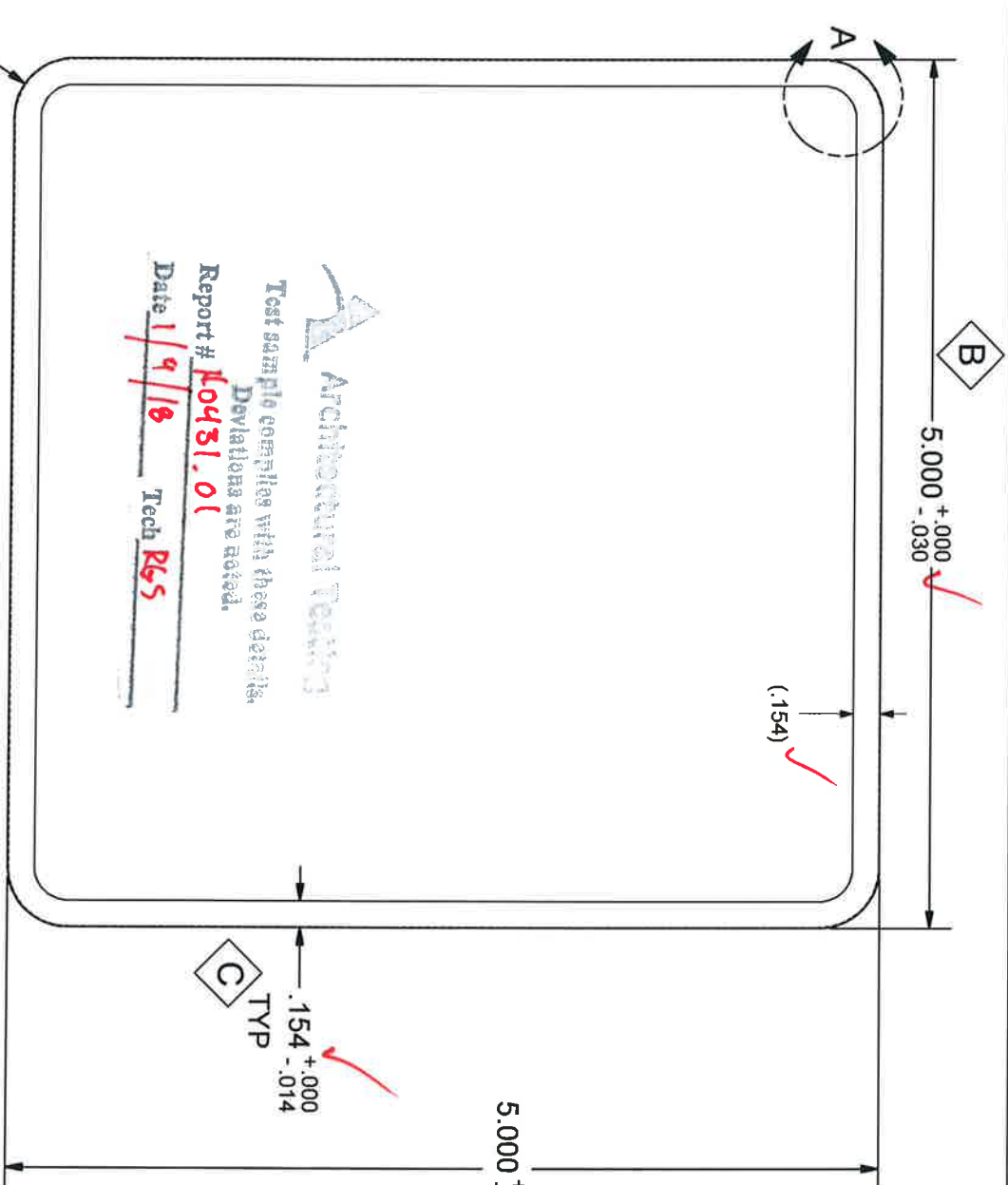


| | | | | |
|---|--|----------|---|--|
| DRAWN BY | | DATE | DRAWING NUMBER | |
| RRQ | | 5/4/2016 | mi_alu_5000_5000_100_xx_posttowerinsert.ipt | |
| CHECKED BY | | DATE | REVISION NUMBER | |
| | | | 0 | |
| APPROVED BY | | DATE | CHANGE LETTER | |
| | | | * | |
| 5 x 5 Alum Insert Tower Aluminum Post Tower Insert York, Nebraska | | | | |

| | | | | | | | |
|------------------|---------------|------------|--|--|--|--------|--|
| MATERIAL | | ISSUED FOR | | THE PART SHOWN HEREIN IS A TRADEMARK PRODUCT OF KROY BUILDING PRODUCTS, INC. AND THIS DOCUMENT SHALL NOT BE RELEASED, USED, DUPLICATED, OR DISCLOSED IN WHOLE OR IN PART FOR ANY PURPOSE WITHOUT EXPRESS WRITTEN PERMISSION OF KROY BUILDING PRODUCTS, INC. WHERE SUCH PERMISSION IS GRANTED, THIS LEGEND SHALL BE MARKED ON ANY REPRODUCTION HEREOF IN WHOLE OR IN PART. KROY BUILDING PRODUCTS, INC. RESERVES ALL RIGHTS TO THE DESIGN DISCLOSED HEREIN. | | SHEET | |
| Aluminum 6063-T6 | | | | | | 1 OF 1 | |
| PART NUMBER | PART QUANTITY | | | | | | |
| 1.96 | 20.01 | | | | | | |



1 MUST HAVE A MINIMUM OF ONE MEASUREMENT PER SIDE WITHIN NOTED DIMENSION



Architectural Testing
 Test sample complies with these details.
 Deviations are noted.
 Report # **K0431.01**
 Date **1/9/18** Tech **PKS**

Regions:
 Area: 2.8408
 Perimeter: 37.8770
 Bounding box: X: -2.5000 --- 2.5000
 Y: -2.5000 --- 2.5000
 Centroid: X: 0.0000
 Y: 0.0000
 Moments of inertia: X: 10.9947
 Y: 10.9947

Do Not Scale Drawing
 Unless Otherwise Specified
 Dimensions are in Inches

Tolerances
 x ± .030 .xx ± .010 .xxx ± .005
 Angular ± .30° Fractions ± 1/16
 Break all Sharp Edges .003-.015
 Fillets .020 - .040
 Walls +.000 - .015



KROY BUILDING PRODUCTS INC.

5 x 5 RW
 POST

18 CHANGE LETTER C

po_pvc_5000_5000_154_RW.plt

PROFILE PROPERTIES

| VARIABLE | VOLUME / FT | WEIGHT / FT |
|----------|------------------------|--------------|
| .0542 | 34.975 in ³ | 1.896 lbmass |

| MATERIAL | PART | WEIGHT |
|------------------|------|--------|
| PVC- +.085Ribbed | 0 | 0 |

ISSUED FOR

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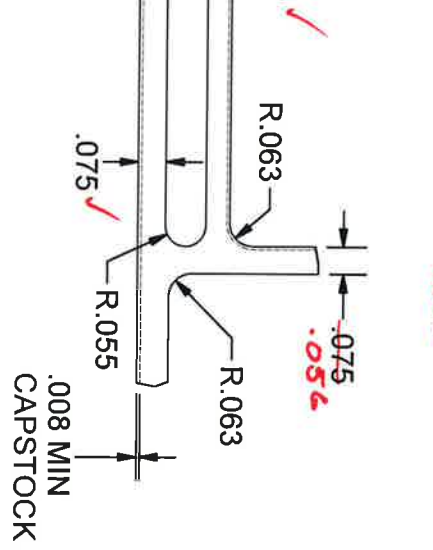
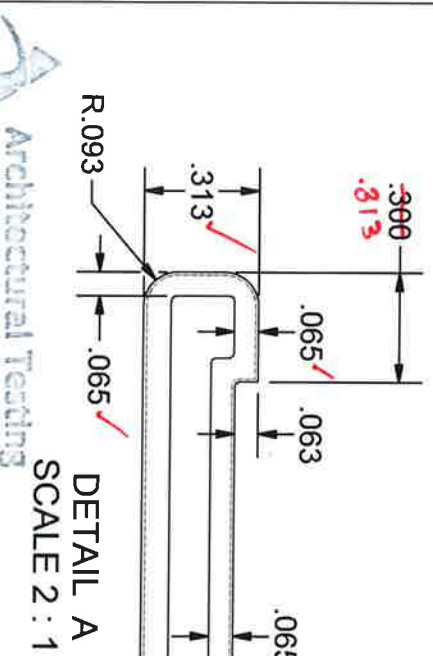
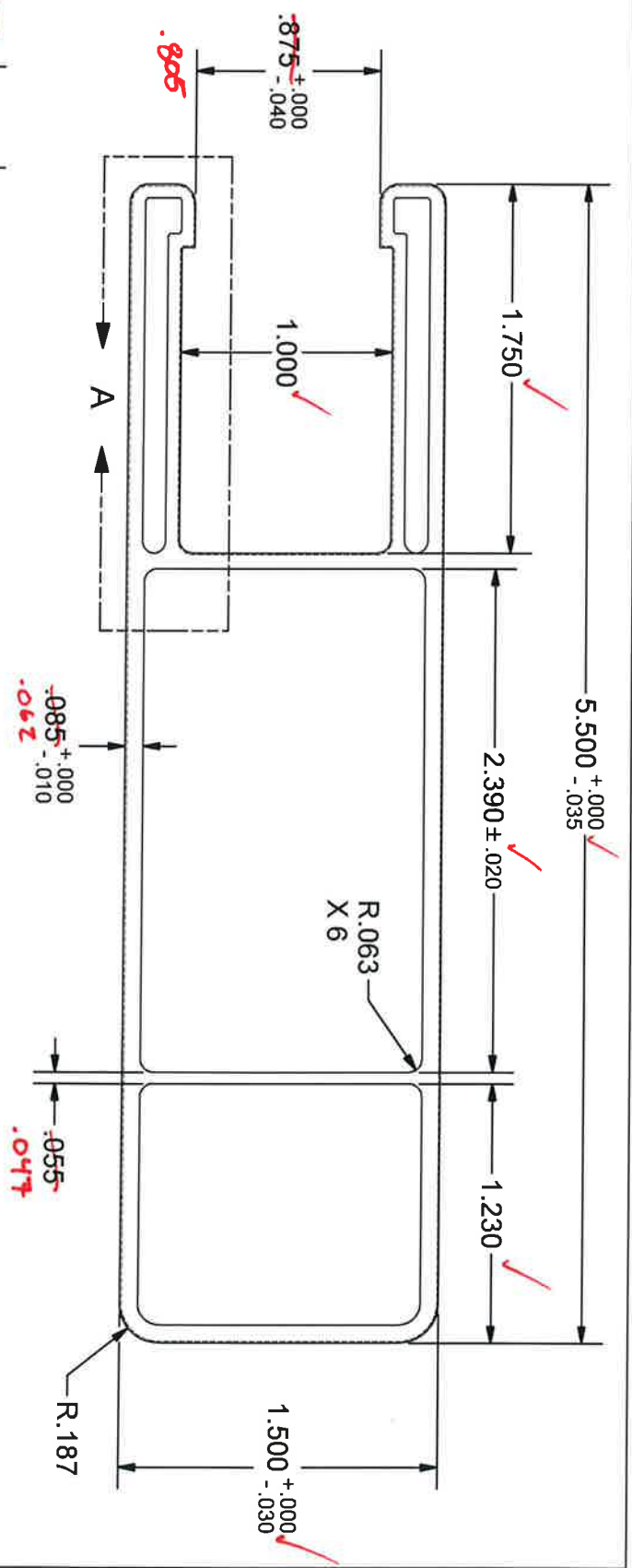
R11/32
 D

B
 5.000 +.000 / -.030

C
 TYP
 .154 +.000 / -.014

A
 5.000 +.000 / -.030

1
 .008 MIN. CAPSTOCK



ALL FILLETS .015
UNLESS NOTED OTHERWISE



Test sample complies with these details.
Deviations are noted.

Report # **K0431.01**

Date **1/9/18** Tech **RLS**

PROFILE PROPERTIES

| | | |
|---------------------|------------------------|--------------|
| LBS in ³ | VOLUME / FT | MASS / FT |
| .0542 | 17.229 in ³ | 0.934 lbmass |

Do Not Scale Drawing
Unless Otherwise Specified
Dimensions are in inches

Tolerances
x ± .030 .xx ± .010 .xxx ± .005
Angular ± 30° Fractions ± 1/16
Break all Sharp Edges .003-.015
Fillets .020 - .040
Walls + .000 - .015



| | | | | | | | |
|---------------------|--|------------|--|------------------------|--|-----------------------------------|--|
| DRAWING NUMBER | | DATE | | REVISION NUMBER | | CHANGE LETTER | |
| RRQ | | 11/19/2015 | | 1 | | 11/2 x 5 1/2 Slotted w - 7/8 Slot | |
| CHECKED BY | | | | DATE | | | |
| APPROVED BY | | | | DATE | | | |
| ISSUED FOR | | | | DRAWING NUMBER | | | |
| MATERIAL | | | | PART NUMBER | | | |
| PVC - +.085Rribbed | | | | 0 | | | |
| LBS in ³ | | | | VOLUME / FT | | | |
| .0542 | | | | 17.229 in ³ | | | |
| MASS / FT | | | | 0.934 lbmass | | | |

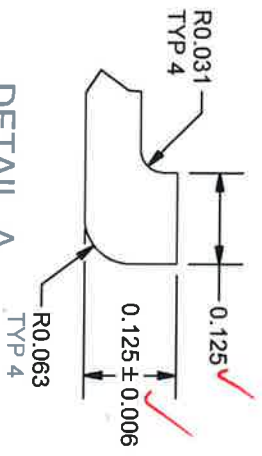
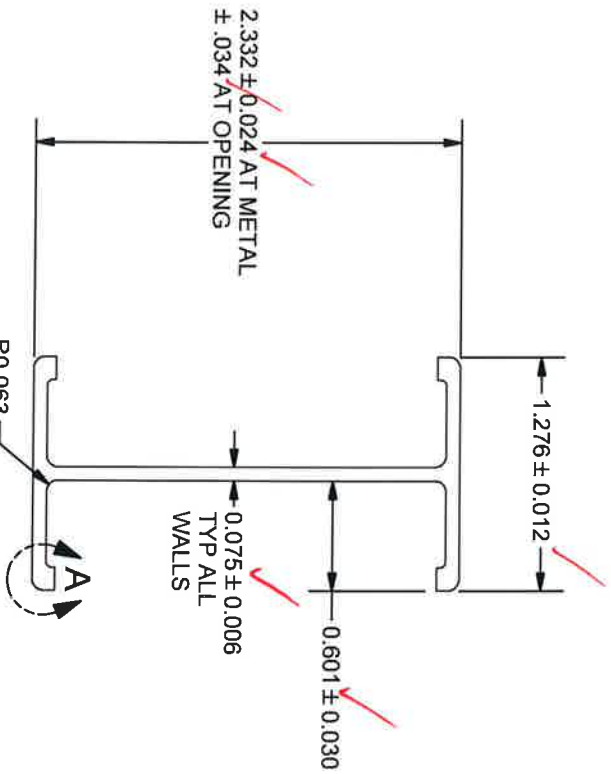
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PLYGEM FENCE | RAILING York, Nebraska

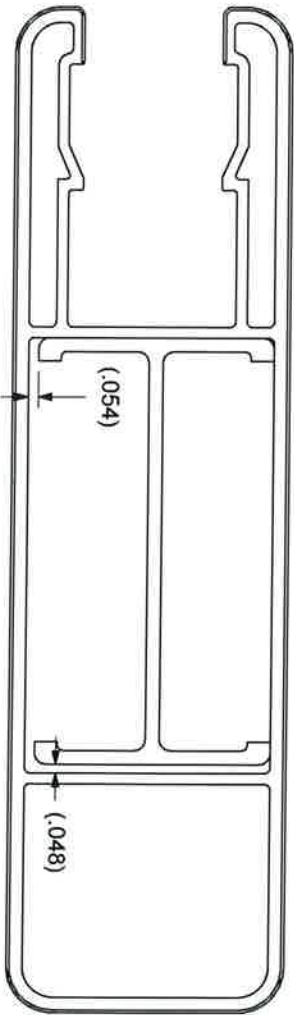
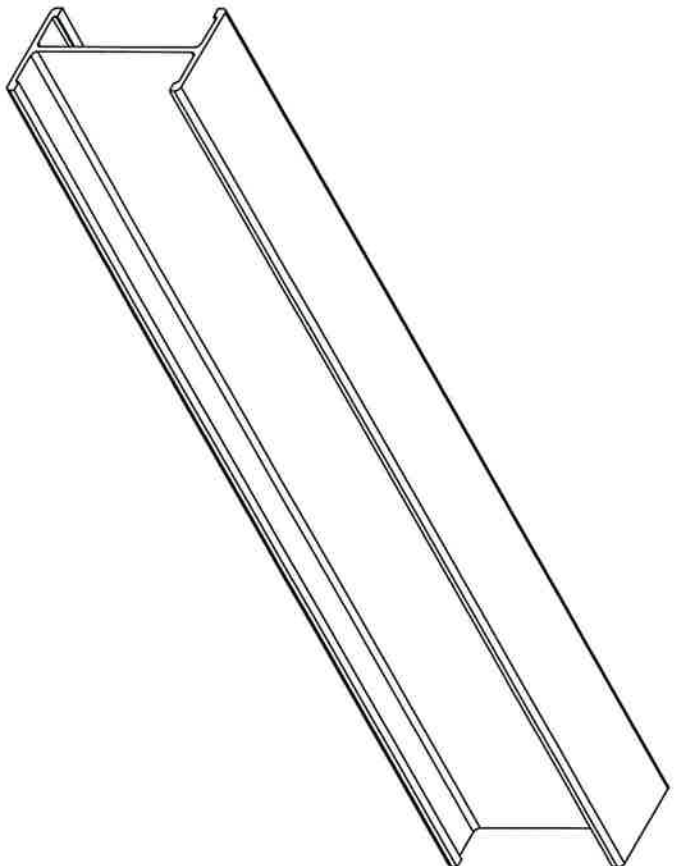
Tooling Print

pt_pvc_1500_5500_085_xx_slotted.ipt

1 OF 1



DETAIL A
SCALE 4 : 1



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report # 110431.01

Date 1/9/18

Tech PCS

MASS
0.447 lbmass

Do Not Scale Drawing
Unless Otherwise Specified
Dimensions are in inches

Tolerances
x ± .030 xx ± .010 xxx ± .005
Angular ±.30° Fractions ± 1/16
Break all Sharp Edges .003-.015
Fillet .020 - .040
Walls +.000 - .015



KROY BUILDING PRODUCTS INC.

Aluminum Insert

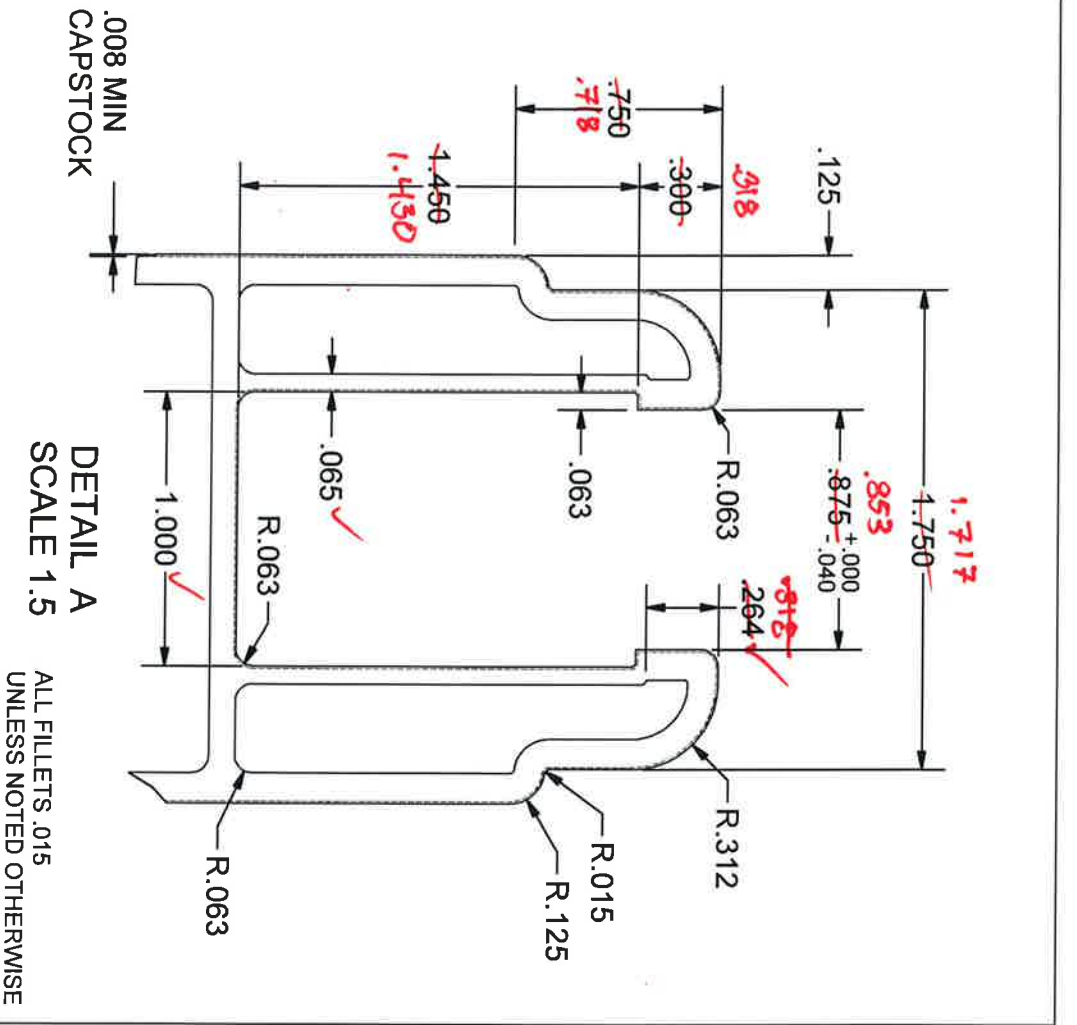
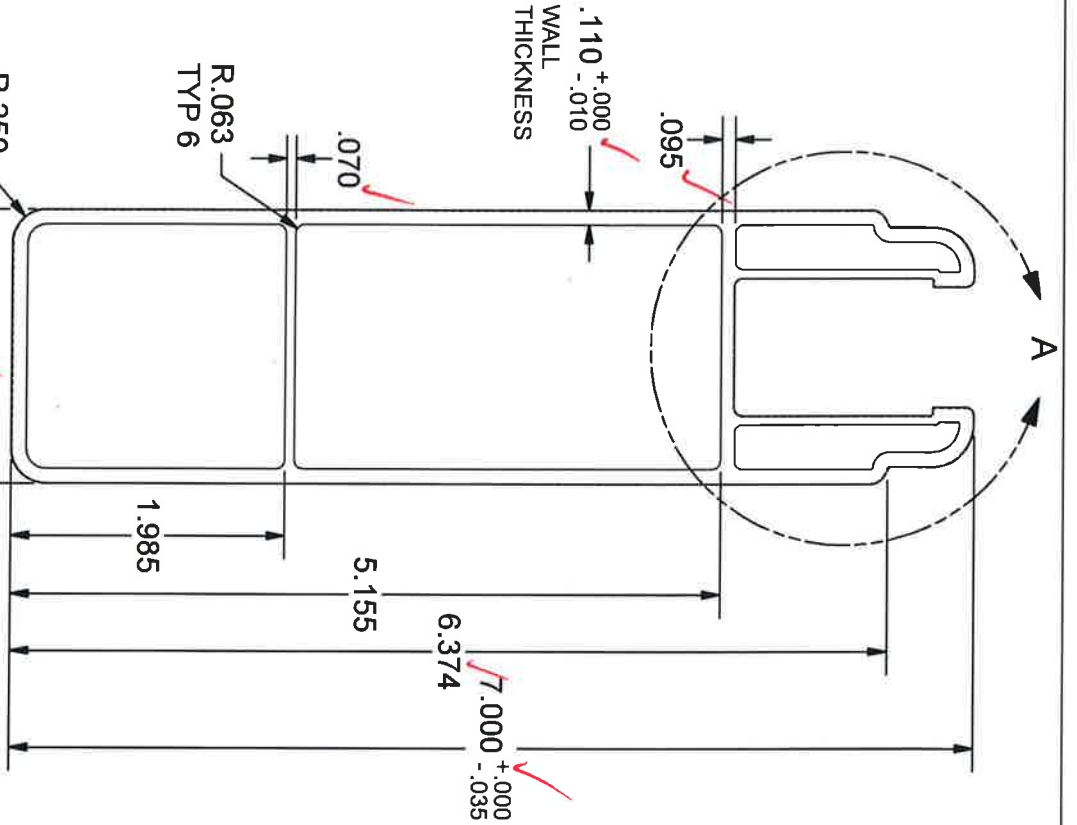
1 1/2 x 5 1/2 Sag Insert

| | | | |
|-------------|-----------|----------|---------------|
| DRAWN BY | DATE | REVISION | CHANGE LETTER |
| RRQ | 7/21/2006 | 0 | * |
| CHECKED BY | DATE | | |
| APPROVED BY | DATE | | |

mi_allu_1500_5500_075_xx_slotted-insert.rpt

| | |
|-------------|------------------|
| MATERIAL | Aluminum-6005-T5 |
| PART WEIGHT | 0 |
| PART VOLUME | 0 |

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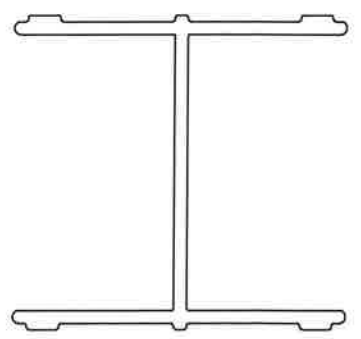
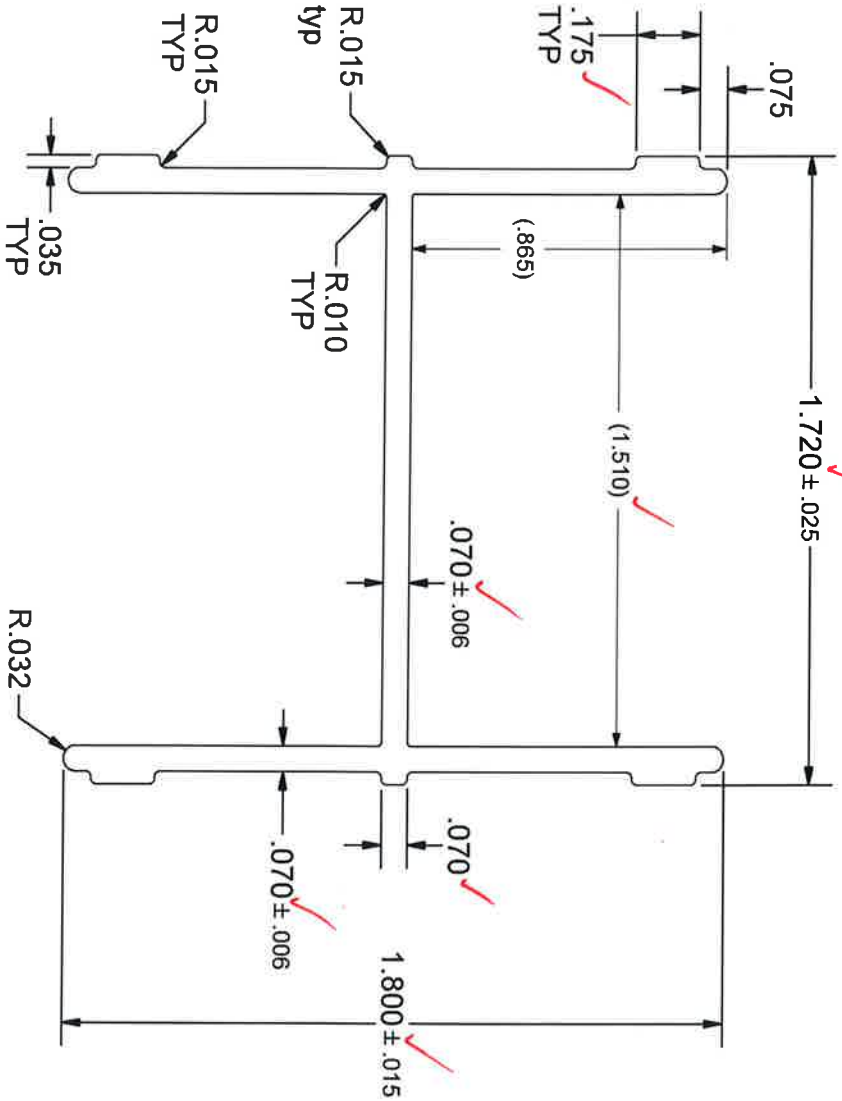
Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report # 10931.01

Date 1/9/18

Tech RC5



ACTUAL SIZE

Do Not Scale Drawing
Unless Otherwise Specified
Dimensions are in Inches

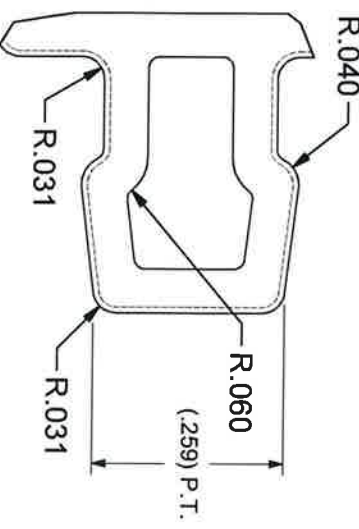
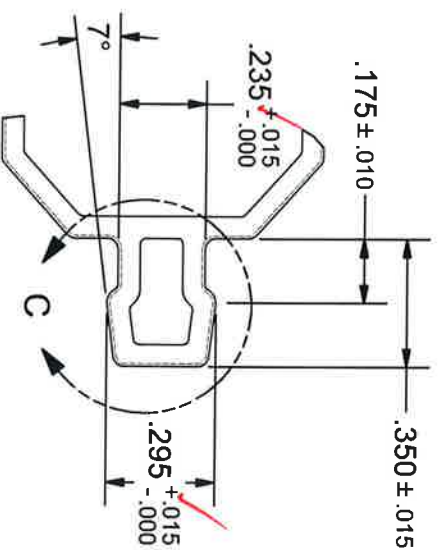
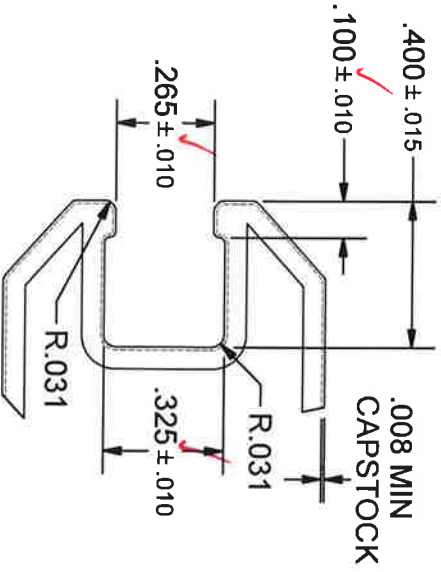
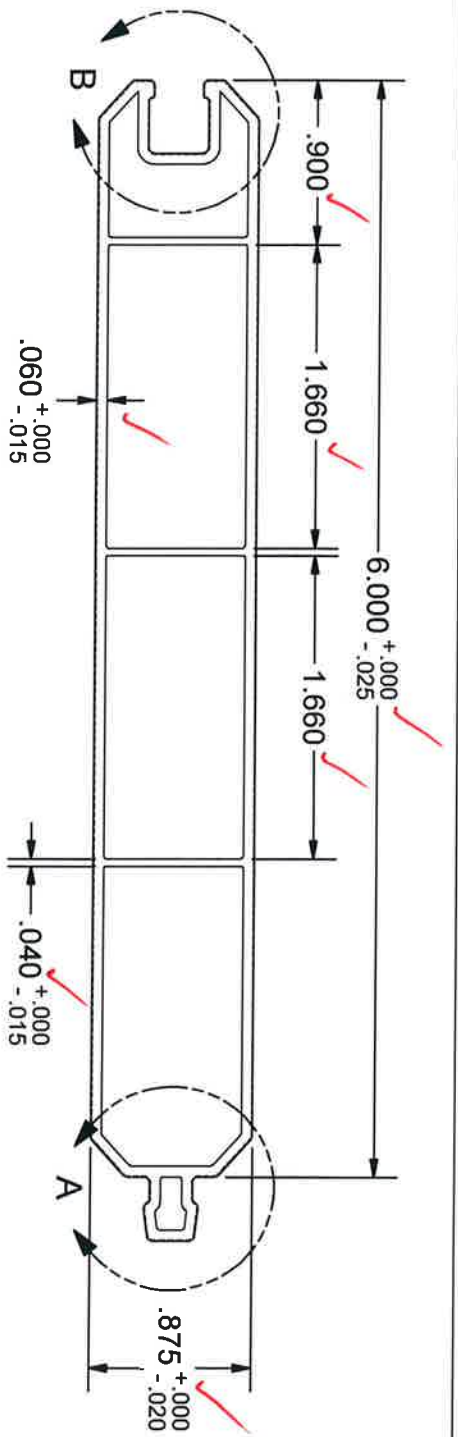
Tolerances
 .x ± .030 .xx ± .010 .xxx ± .005
 Angular ± 30° Fractions ± 1/16
 Break all Sharp Edges .003-.015
 Fillets .020 -.040
 Walls + .000 -.015



| | | | | |
|-------------|--|-----------|--------------------|--|
| DRAWN BY | | DATE | PROJECT | |
| RRQ | | 2/28/2017 | 2 x 7 Slotted Rail | |
| CHECKED BY | | DATE | REVISION NUMBER | |
| | | | 0 | |
| APPROVED BY | | DATE | CHANGE LETTER | |
| | | | * | |

| | | | | | |
|------------------|-----------------|--------------------------------------|------------------|---|--|
| ISSUED FOR | | DRAWING NUMBER | | SHEET | |
| Aluminum 6063-T6 | | mi_alu_2000_700_070_xx_h-channel.ipt | | 1 OF 1 | |
| PER PART WEIGHT | PER PART VOLUME | MATERIAL | | TITLE PART SHOWN HEREIN IS A PROPRIETARY PRODUCT OF KROY BUILDING PRODUCTS, INC. AND THIS INFORMATION SHALL NOT BE RELEASED, USED, REPRODUCED, OR DISCLOSED IN WHOLE OR IN PART FOR ANY PURPOSE WITHOUT EXPRESS WRITTEN PERMISSION OF KROY BUILDING PRODUCTS, INC. WHERE SUCH PERMISSION IS GRANTED. THIS LEGEND SHALL BE MARKED ON ANY REPRODUCTION HEREOF IN WHOLE OR IN PART. KROY BUILDING PRODUCTS, INC. RESERVES ALL RIGHTS TO THE DESIGN DISCLOSED HEREIN. | |
| FOOT | 0.451 | 4.625 | Aluminum 6063-T6 | | |

UNLESS OTHERWISE NOTED
BRK ALL CORNERS .015
ALL FILLETS .015



DETAIL B
SCALE 2 : 1

DETAIL A
SCALE 2 : 1

DETAIL C
SCALE 4 : 1



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report # H043 (1.01)
Date 1/9/18 Tech PLS

PROFILE PROPERTIES

| | | |
|---------------------|------------------------|--------------|
| LBS in ³ | VOLUME / FT | WEIGHT / FT |
| .0542 | 11.747 in ³ | 0.637 lbmass |

Do Not Scale Drawing
Unless Otherwise Specified
Dimensions are in inches

Tolerances
x ± .030 xx ± .010 xxx ± .005
Angular ± 30' Fractions ± 1/16
Break all Sharp Edges .003-.015
Fillet .020-.040
Walls +.000 -.015



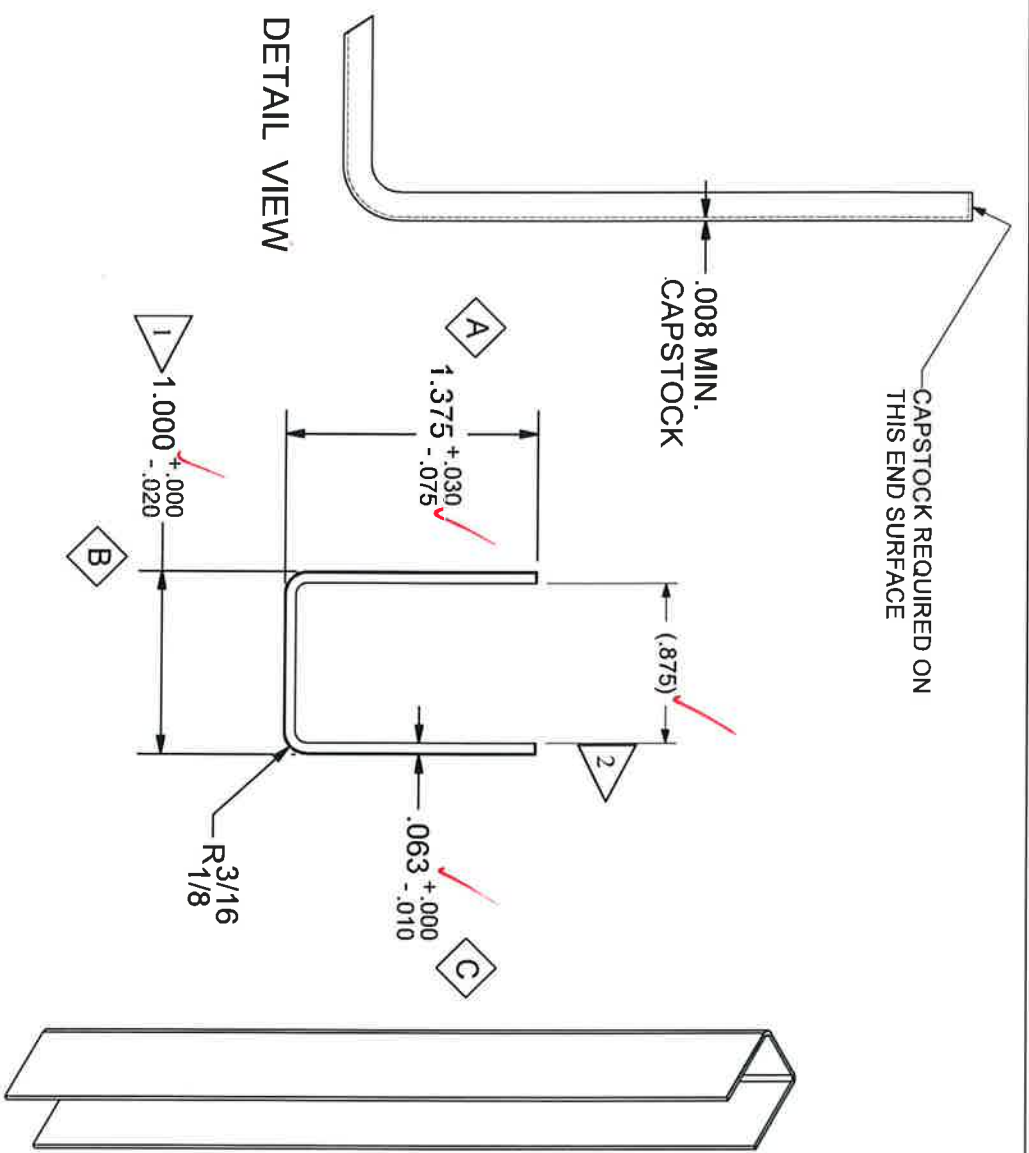
PLYGEM FENCE | RAILING
York, Nebraska

| | | | | | | |
|------------|----------------|------|-----------|-----------|-----------------|---------------|
| ISSUED FOR | DRAWING NUMBER | DATE | DATE | DATE | REVISION NUMBER | CHANGE LETTER |
| | | RRQ | 8/31/2015 | 8/31/2015 | 0 | * |
| | | RRQ | | 8/31/2015 | | |

pt_pvc_0875_6000_060_xx_TG.plt

| | | |
|-------------|------------------|--|
| MATERIAL | PVC+.085orRibbed | RELEASED, USED, DUPLICATED, OR DISCLOSED IN WHOLE OR IN PART FOR ANY PURPOSE WITHOUT EXPRESS WRITTEN PERMISSION OF KROY BUILDING PRODUCTS, INC. WHERE SUCH PERMISSION IS GRANTED, THIS LEGEND SHALL BE MARKED ON ANY REPRODUCTION HEREOF IN WHOLE OR IN PART. KROY BUILDING PRODUCTS, INC. RESERVES ALL RIGHTS TO THE DESIGN DISCLOSED HEREIN. |
| PART WEIGHT | 0 | |
| PART VOLUME | 0 | |
| SHEET | 1 | OF 1 |

CAPSTOCK REQUIRED ON THIS END SURFACE



1 MEASURE NOTED WIDTH ACROSS CORNERS OF PROFILE

2 NOTED REFERENCE DIMENSION MAY NOT BE LESS THAN .687 IN A FREE STATE

DETAIL VIEW

Architectural Testing
 Test sample complies with these details.
 Deviations are noted.

Report # K431.01

Date 1/4/18 Tech Rls5

| | |
|---------------------------|--------|
| Total Volume | 2.6580 |
| Inner Material Volume | 1.9900 |
| Cap Stock Volume | 0.6680 |
| Inner Mat'l Wgt Variable | .053 |
| Capstock Wgt Variable | .0394 |
| Weight for Inner Material | 0.105 |
| Weight for Capstock | 0.026 |
| PER FOOT COMBINED | 0.132 |

Do Not Scale Drawing
 Unless Otherwise Specified
 Dimensions are in Inches

Tolerances
 x ± .030 .xx ± .010 .xxx ± .005
 Angular ± 30° Fractions ± 1/16
 Break all Sharp Edges .003-.015
 Fillets .020 - .040
 Walls +.000 - .015



| | |
|------------------------------------|---------------------------------------|
| KROY BUILDING PRODUCTS INC. | |
| DRAWN BY | RRQ |
| CHECKED BY | RRQ |
| DATE | 8/31/2015 |
| DATE | 8/31/2015 |
| DESCRIPTION | 7/8" U-Channel |
| REVISION NUMBER | |
| CHANGE LETTER | A |
| DRAWING NUMBER | pw_pvc_0875_xxx_063_xxx_U-channel.ipt |

| | |
|-----------------------|--------------|
| VOLUME | WEIGHT / FT |
| 2.658 in ³ | 0.141 lbmass |

| | |
|-------------|---------------|
| MATERIAL | PVC-.085 Open |
| PART WEIGHT | 0 |
| PART VOLUME | 0 |

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| | | | |
|-------|---|----|---|
| SHEET | 1 | OF | 1 |
|-------|---|----|---|



Total Quality. Assured.

130 Derry Court
York, Pennsylvania 17406

Telephone: 717-764-7700
Facsimile: 717-764-4129
www.intertek.com/building

TEST REPORT FOR PLY GEM FENCE/RAILING

Report No.: H0431.01-119-19-R1

Date: 01/15/18

SECTION 11

REVISION LOG

| REVISION # | DATE | PAGES | REVISION |
|------------|----------|-------|--|
| 0 | 01/15/18 | N/A | Original Report Issue |
| 1 | 01/17/18 | 11 | Updated the U-channel length to 37-1/4 in long (lower panel) |