



AGENDA OF THE LANDMARKS COMMISSION

**THURSDAY, APRIL 25, 2019, 4:30 PM
CITY HALL, ROOM 310**

A. Roll Call.

- I. Members: Paul Martzke, Susan Ley, Ald. Veronica Corpus-Dax, Justin Balsley, Ron Dehn, Ian Griffiths, and David Siegel

B. Approval of the Agenda.

- I. Approval of the agenda for the April 25, 2019, special meeting of the Landmarks Commission.

C. Approval of Minutes.

- I. Approval of the minutes from the April 8, 2019, meeting of the Landmarks Commission.

D. Regular Business.

- I. (COA 19-08) Consideration with possible action on a design review for a new sign located at 114 S. Broadway.
2. (COA 19-10) Consideration with possible action on a design review for window replacement at Whitney School, 215 N. Webster.

E. Informational.

- I. Date of next meeting: Monday, May 13, 2019

F. Adjournment.

- 1) THIS MEETING IS RECORDED: THE VIDEO OF THIS MEETING AND MINUTES ARE AVAILABLE ONLINE AT www.greenbaywi.gov

- 2) **ACCESSIBILITY:** Any person wishing to attend who requires special accommodation because of a disability, should contact the City Safety Manager at 920-448-3125 at least 48 hours before the scheduled meeting time so that arrangements can be made.
- 3) **QUORUM:** Please take notice that a majority or quorum of the Common Council will attend this Landmarks Commission meeting and will constitute a meeting of the Common Council for purposes of discussion and information gathering relative to this agenda.
- 4) **REPRESENTATION:** The party requesting the communication, or their representative, should be present at this meeting.



MINUTES OF THE LANDMARKS COMMISSION

**MONDAY, APRIL 8, 2019, 4:30 PM
CITY HALL, ROOM 310**

A. ROLL CALL.

I. Members: Paul Martzke, Susan Ley, Ald. Veronica Corpus-Dax, Justin Balsley, Ron Dehn, Ian Griffiths, and David Siegel

Present: David Siegel, Paul Martzke, Ron Dehn, Justin Balsley, Ald. Veronica Corpus-Dax, Ian Griffiths, Susan Ley, Excused: None

B. APPROVAL OF THE AGENDA.

I. Approval of the agenda for the April 8, 2019, meeting of the Landmarks Commission.

Moved by: Ian Griffiths, seconded by Ald. Veronica Corpus-Dax to approve. Motion carried.
Yes- David Siegel, Ian Griffiths, Paul Martzke, Ron Dehn, Susan Ley, Ald. Veronica Corpus-Dax, Justin Balsley, No- None, Abstain- None

C. APPROVAL OF MINUTES.

I. Approval of the minutes from the March 11, 2019, meeting of the Landmarks Commission.

Moved by: Ron Dehn, seconded by David Siegel to approve. Motion carried.
Yes- David Siegel, Ian Griffiths, Paul Martzke, Ron Dehn, Susan Ley, Ald. Veronica Corpus-Dax, Justin Balsley, No- None, Abstain- None

D. REGULAR BUSINESS.

1. COA (19-05) Consideration with possible action on a new sign located at 111 N. Broadway.

Moved by: Ron Dehn, seconded by Justin Balsley to approve COA 19-05. Motion carried.

Yes- David Siegel, Ian Griffiths, Paul Martzke, Ron Dehn, Susan Ley, Ald. Veronica Corpus-Dax, Justin Balsley, No- None, Abstain- None

E. INFORMATIONAL.

1. Staff-Level COA Applications

Moved by: Ald. Veronica Corpus-Dax, seconded by Ron Dehn to receive and place on file. Motion carried.

Yes- David Siegel, Ian Griffiths, Paul Martzke, Ron Dehn, Susan Ley, Ald. Veronica Corpus-Dax, Justin Balsley, No- None, Abstain- None

2. Review City Raze/Repair Orders and Demolitions

No Report.

3. Staff Update

4. Date of next meeting: Monday, May 13, 2019

F. ADJOURNMENT.

Moved by: Susan Ley, seconded by David Siegel to adjourn. Motion carried.

Yes- David Siegel, Ian Griffiths, Paul Martzke, Ron Dehn, Susan Ley, Ald. Veronica Corpus-Dax, Justin Balsley, No- None, Abstain- None



Report to the
Landmarks Commission
of the City of Green Bay

MEETING DATE

April 25, 2019

PREPARED BY

Jason Flatt, Staff

AGENDA ITEM # D.I.

(COA 19-08) Consideration with possible action on a design review for a new sign located at 114 S. Broadway.

BACKGROUND

112-114 S. Broadway is a contributing property in the Broadway-Walnut NRHP Historic District, built c. 1883. As originally designated in 1999, this historic district consisted of 25 buildings (21 contributing, 4 non-contributing). Since that time, 6 buildings have been razed (4 contributing, 2 non-contributing) and 4 buildings have been constructed as in-fill. The neighboring buildings at 110 S. Broadway and 100 S. Broadway are both contributing within the district.

Property owner proposes to install an internally illuminated circular sign, approximately 4' in diameter and 1' thick. The proposed sign will hang from an existing sign pole (approx. 6' long) that projects perpendicularly from the building's façade. The proposed sign utilizes the existing pole, foundations, and electrical connections. The proposed sign will have no impact on the historic integrity of this building or other buildings within the historic district.

RECOMMENDATION

Approval of the request.

FISCAL IMPACT

ATTACHMENTS

1. COA 19-08, Sign Design Layout
2. COA 19-08, Existing Facade



505 LAWRENCE DR, DE PERE, WI 54115
920.336.8900 GREENBAYSIGNS.COM

CLIENT: PEPPER

LOCATION: 114 SOUTH BROADWAY GREEN BAY

DRAWN BY: NICOLE P

SALESPERSON: MARK M

DATE: 11/15/2018

DESIGN #: D14560

PAGE: 1

REVISION LOG:	INTL	DATE	DESCRIPTION
	NP	11/20/2018	CIRCLE/BOLDER

FLAG MOUNT CABINET

QUANTITY: 1

SIDES: D/F

LIGHTING: LED (WHITE)

CABINET DESC: FABRICATED ALUM (12")

RETAINER: 2"

FACES: LEXAN

GRAPHICS: CUT VINYL, 1ST SURFACE

FONT: SUPPLIED LOGO

MOUNTING: FROM EXISTING BAR

PHOTO EYE: YES

INSTRUCTION: PRODUCE & INSTALL AS SHOWN.

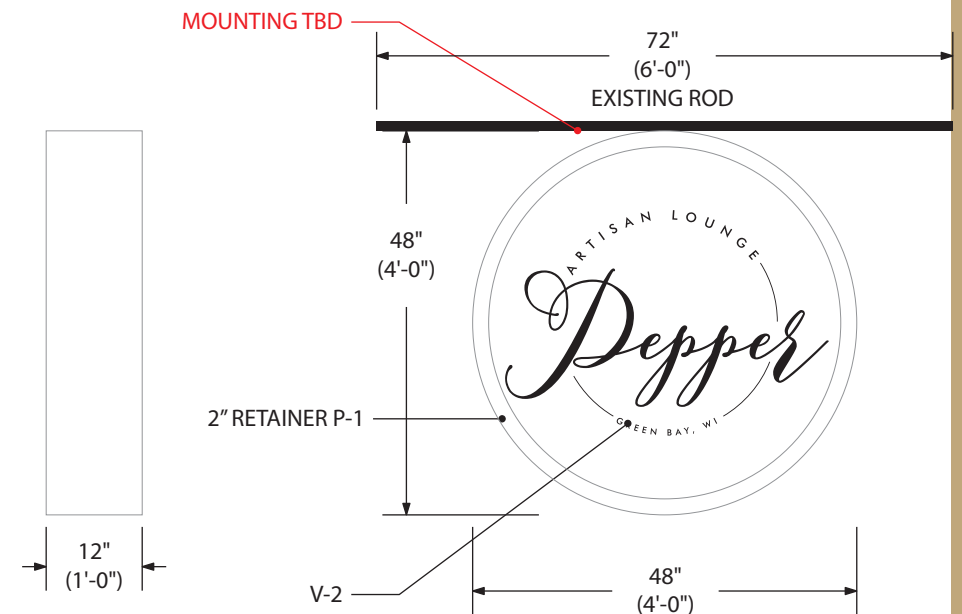
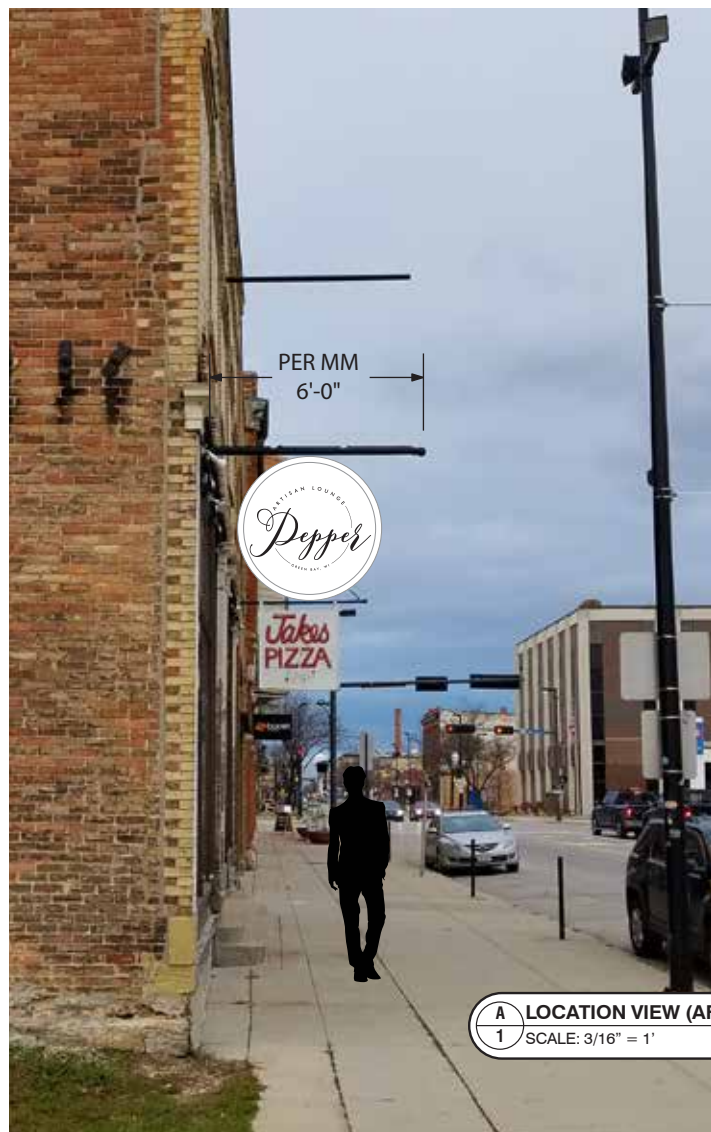
COLORS:

☐ P-1/C-1 WHITE

■ V-2 ORACAL 751-070 BLACK

CUSTOMER SIGNATURE FOR DESIGN APPROVAL:

DATE _____



NALL

CONCEPTUAL DRAWING ONLY - NOT FOR FABRICATION PURPOSES (SIZES ARE APROX)

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MOUNTING

CLIENT: PEPPER

LOCATION: 114 SOUTH BROADWAY GREEN BAY

DRAWN BY: NICOLE P

SALESPERSON: MARK M

DATE: 11/15/2018

DESIGN #: D14560

PAGE: 2

REVISION LOG:	INTL	DATE	DESCRIPTION
	---	00/00/0000	DESCRIPTION

VINYL GRAPHICS

QUANTITY: 1

GRAPHICS: CUT VINYL, 1ST SURFACE

FONT: SUPPLIED LOGO, FUTURA

INSTRUCTION: PRODUCE & INSTALL AS SHOWN.

COLORS:

☐ V-1 ORACAL 751-010 WHITE

CUSTOMER SIGNATURE FOR DESIGN APPROVAL:

DATE



A
1LOCATION VIEW (AFTER)
SCALE: 1" = 1'



A
2EXISTING VIEW
N.T.S.

VINYL GRAPHICS: OPT 1

A
4DETAIL VIEW
SCALE: 1 1/2" = 1'



MOUNTING

CONCEPTUAL DRAWING ONLY - NOT FOR FABRICATION PURPOSES (SIZES ARE APROX)

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Report to the
Landmarks Commission
of the City of Green Bay

MEETING DATE

April 25, 2019

PREPARED BY

Jason Flatt, Staff

AGENDA ITEM # D.2.

(COA 19-10) Consideration with possible action on a design review for window replacement at Whitney School, 215 N. Webster.

BACKGROUND

215 N. Webster, the former Whitney School, is an individually designated NRHP property (added to NRHP in 2017). The building was constructed in 1918. The property owner is rehabilitating the former school (and former Bellin Hospital offices) for use as apartments. This project includes the use of historic tax credits and all work is subject to review and approval by SHPO and the National Park Service.

The property owner proposes to install all new windows and notes that: 1) No historic windows remain to use as a precedent, and 2) The proposed windows are based on original building drawings, windows typical of the period, manufacturer expertise with historic windows, and architect experience with historic wood windows.

Per the property owner, the existing (non-historic) windows are wood framed. The proposed new windows are presumed to be aluminum framed (based on ACRYNAR coating). The proposed windows have been reviewed and approved by the National Park Service for use on this building. The NPS has determined that the proposed windows satisfy the requirements of the Secretary of the Interior's Standards for Rehabilitation.

City staff notes the following items of potential concern that the LC may want to discuss:

- The proposed new windows will have interior and exterior muntin moulding grids, secured (on the interior) using an adhesive tape. What is the anticipated useful life of this adhesive tape? How are the exterior muntins applied?
- The proposed new windows include extruded aluminum (presumed) mouldings that are to be field trimmed and installed in direct contact with existing steel lintels. Does this create a risk for galvanic corrosion?

RECOMMENDATION

Approval of the request.

FISCAL IMPACT

ATTACHMENTS

1. COA 19-10 Whitney School, Existing Pic
2. COA 19-10, Window Details



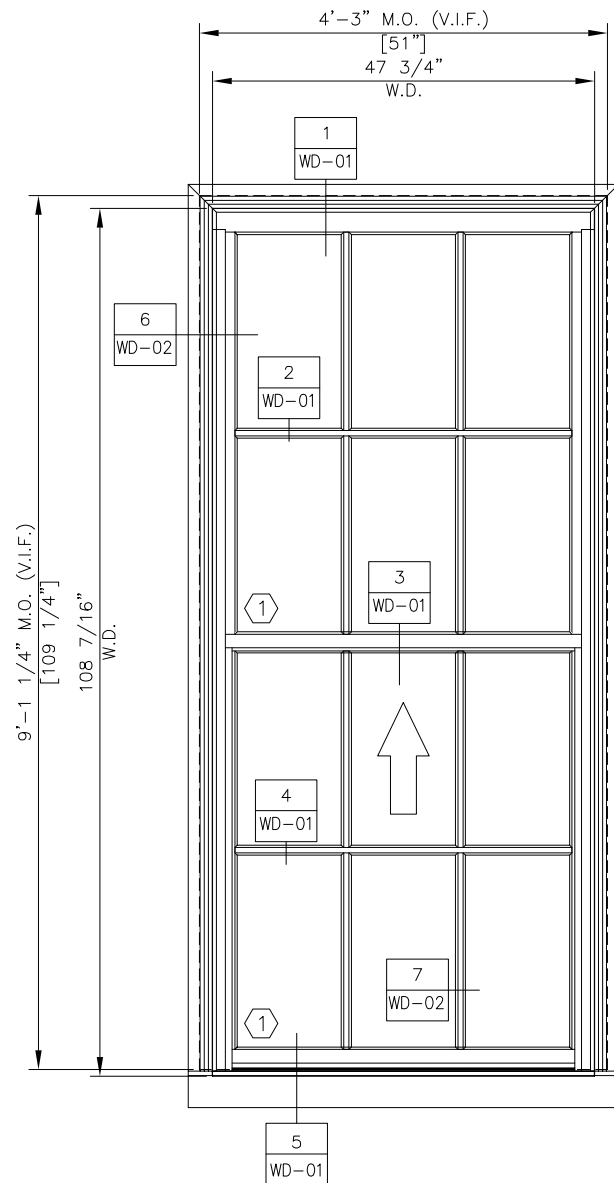
Graham Architectural Products

Whitney School Proposal Drawings

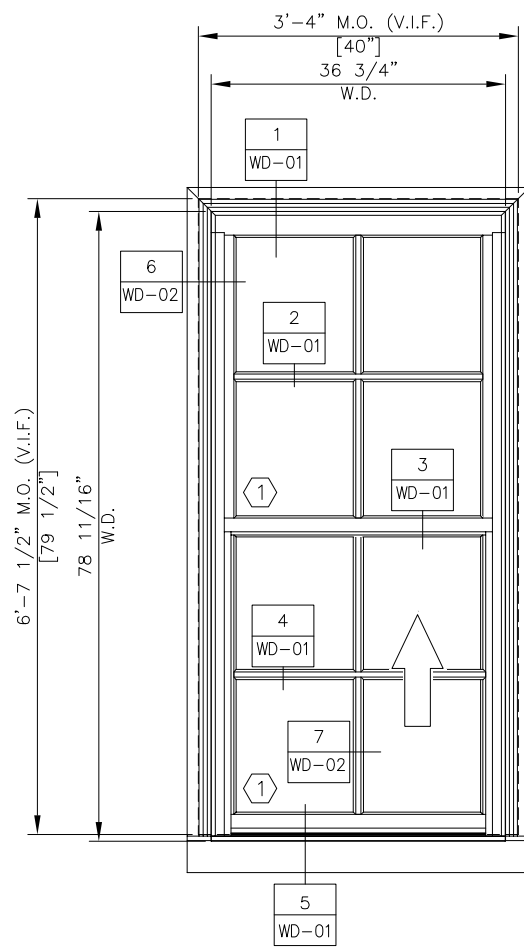
NOTE:
NO HISTORIC WINDOWS EXIST AS A PRECEDENT.
Existing window details shown in these drawings are based on:
- original CD drawings as a reference point
- wood windows typical of that time period
- manufacturer expertise with typical historical wood windows
- architect experience with wood windows on other NPS approved projects

215 North Webster Ave
Green Bay, Wisconsin 54301

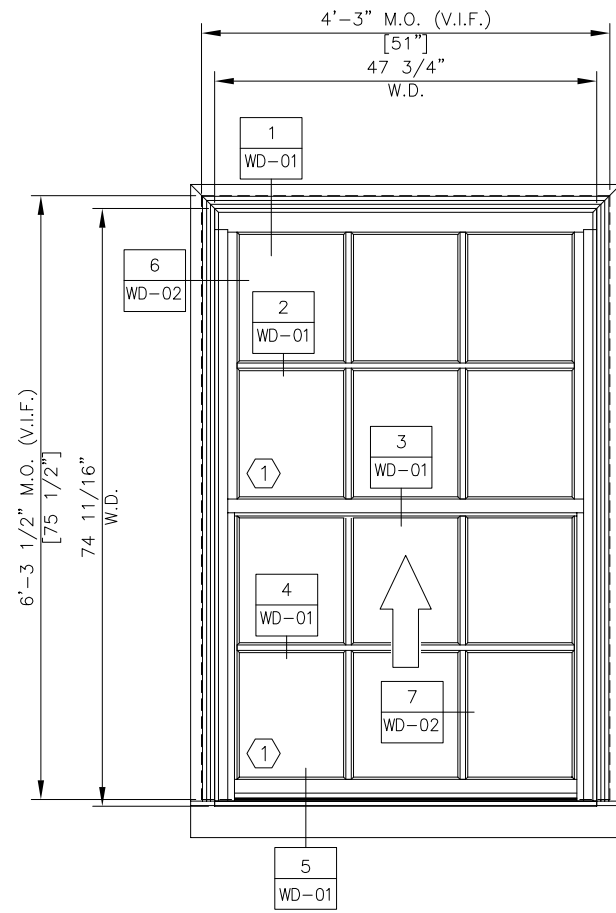
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CHECK BY: STP/GT		DATE: 09.28.18			
PROJECT: WHITNEY SCHOOL					
SERIES: SINGLE HUNG / FIXED					
MODEL: 2200H SH / 1400H					
 LUECK'S HOME IMPROVEMENTS <i>Where we take pride in your home!</i>		Lueck's Home Improvements 706 South Main Street Oshkosh, WI 54902 Phone: 920.235.0106 Fax: 920.235.0145			
DRAWING TITLE WINDOW ELEVATIONS					
JOB NUMBER 914300					
DRAWING NO. C-01					



1 (92) REQUIRED THUS
GRAHAM - 2200H SINGLE HUNG
ARCHITECTURAL REFERENCE: TYPE 1/A401



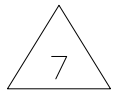
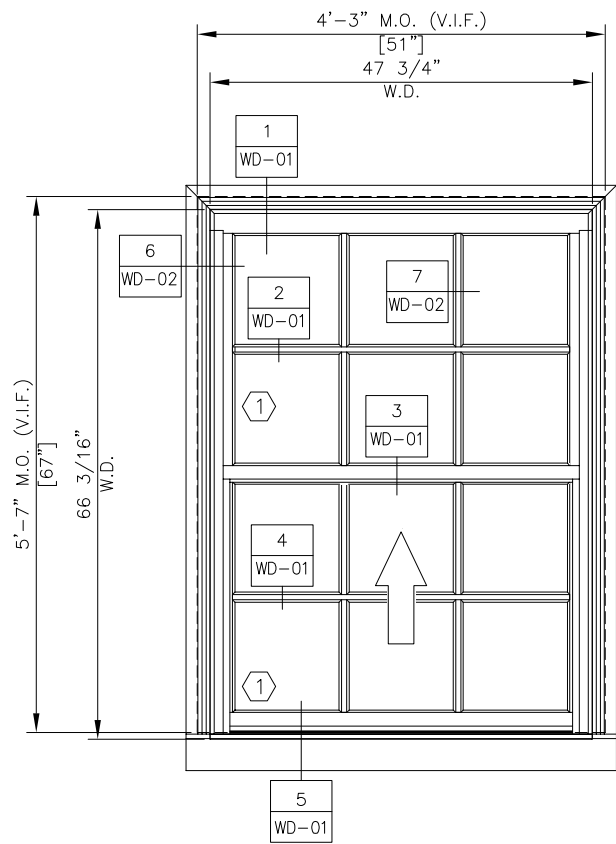
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GRAHAM - 2200H SINGLE HUNG
ARCHITECTURAL REFERENCE: TYPE 4/A401



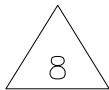
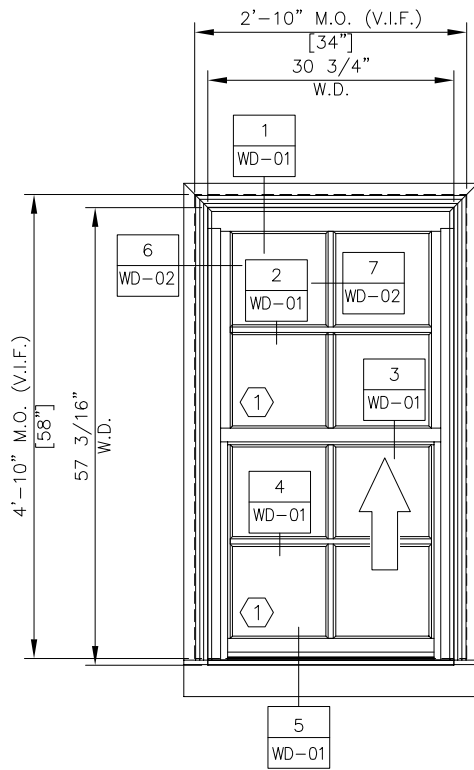
6 (10) REQUIRED THUS
GRAHAM - 2200H SINGLE HUNG
ARCHITECTURAL REFERENCE: TYPE 6/A401

PROPOSED SINGLE HUNG WINDOWS

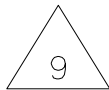
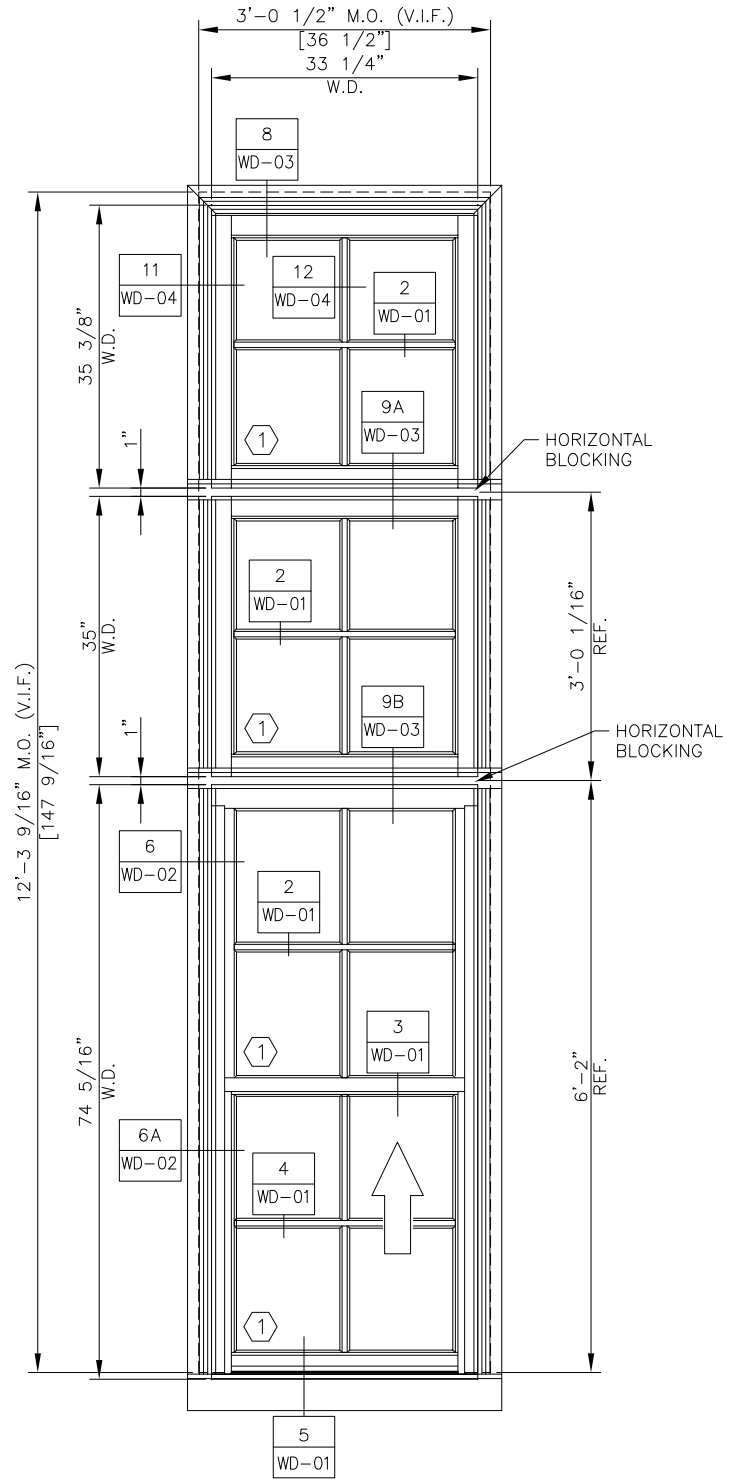
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BY		DATE		REVISIONS	
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GAP STP		09.28.18		STP/GT	
PROJECT: WHITNEY SCHOOL		SERIES: SINGLE HUNG / FIXED		MODEL: 2200H SH / 1400H	
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JOB NUMBER 914300		DRAWING NO. WE-01		NPS PROPOSAL DETAILS 09.28.18	



(2) REQUIRED THUS
GRAHAM - 2200H SINGLE HUNG
ARCHITECTURAL REFERENCE: TYPE 7/A401



(2) REQUIRED THUS
GRAHAM - 2200H SINGLE HUNG
ARCHITECTURAL REFERENCE: TYPE 8/A401



(6) REQUIRED THUS
GRAHAM - 2200H SINGLE HUNG/1400H FIXED
ARCHITECTURAL REFERENCE: TYPE 9/A401

PROPOSED SINGLE HUNG WINDOWS

DRAWING NO.
WE-02

SCALE:
1"=1'-0" AT
22"x34"

REVISIONS	DATE	BY

DRAWN BY:	GAP STP
DATE:	09.28.18
CHECK BY:	STP/GT
DATE:	09.28.18

PROJECT:	WHITNEY SCHOOL
SERIES:	SINGLE HUNG / FIXED
MODEL:	2200H SH / 1400H

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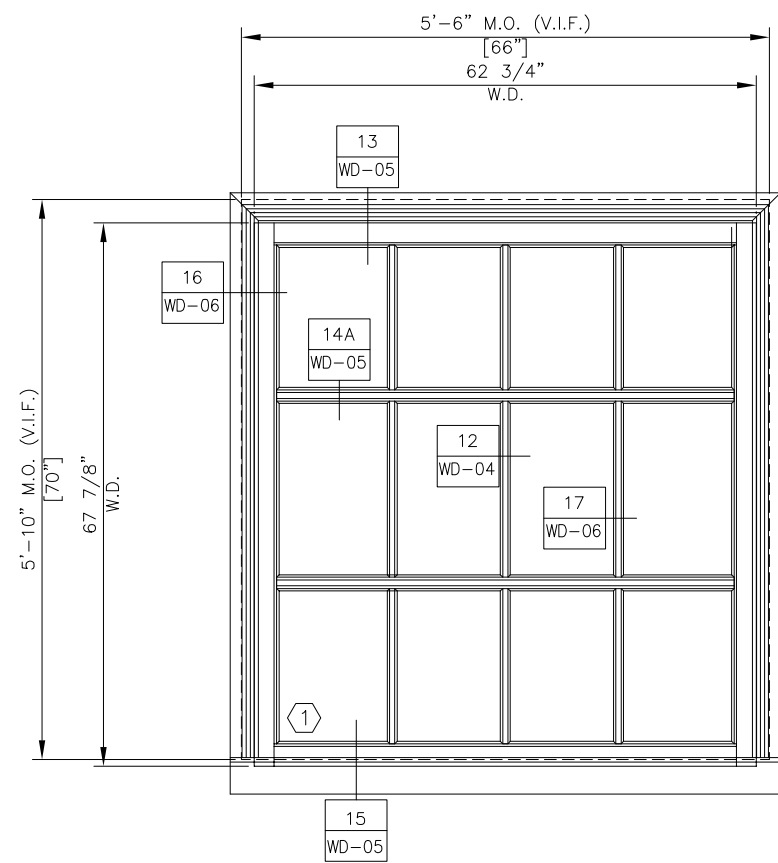
Lueck's Home Improvements
706 South Main Street
Oshkosh, WI 54902
Phone: 920.235.0106
Fax: 920.235.0145

DRAWING TITLE
**WINDOW
ELEVATIONS**

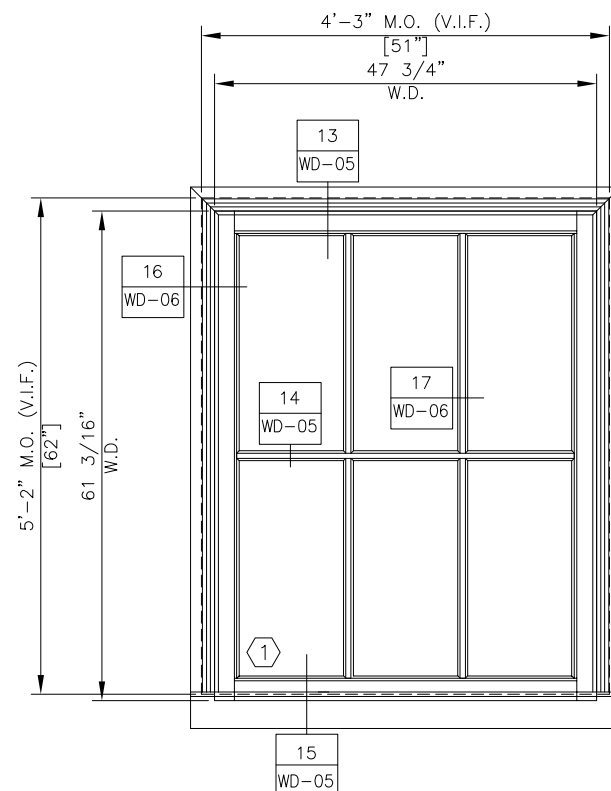
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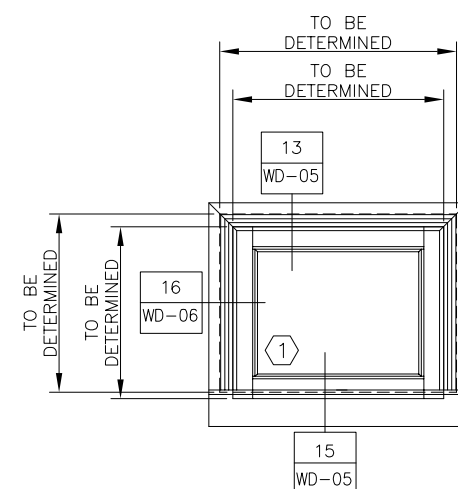
NPS PROPOSAL DETAILS 09.28.18



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GRAHAM - 1400H FIXED
ARCHITECTURAL REFERENCE: TYPE 2/A401

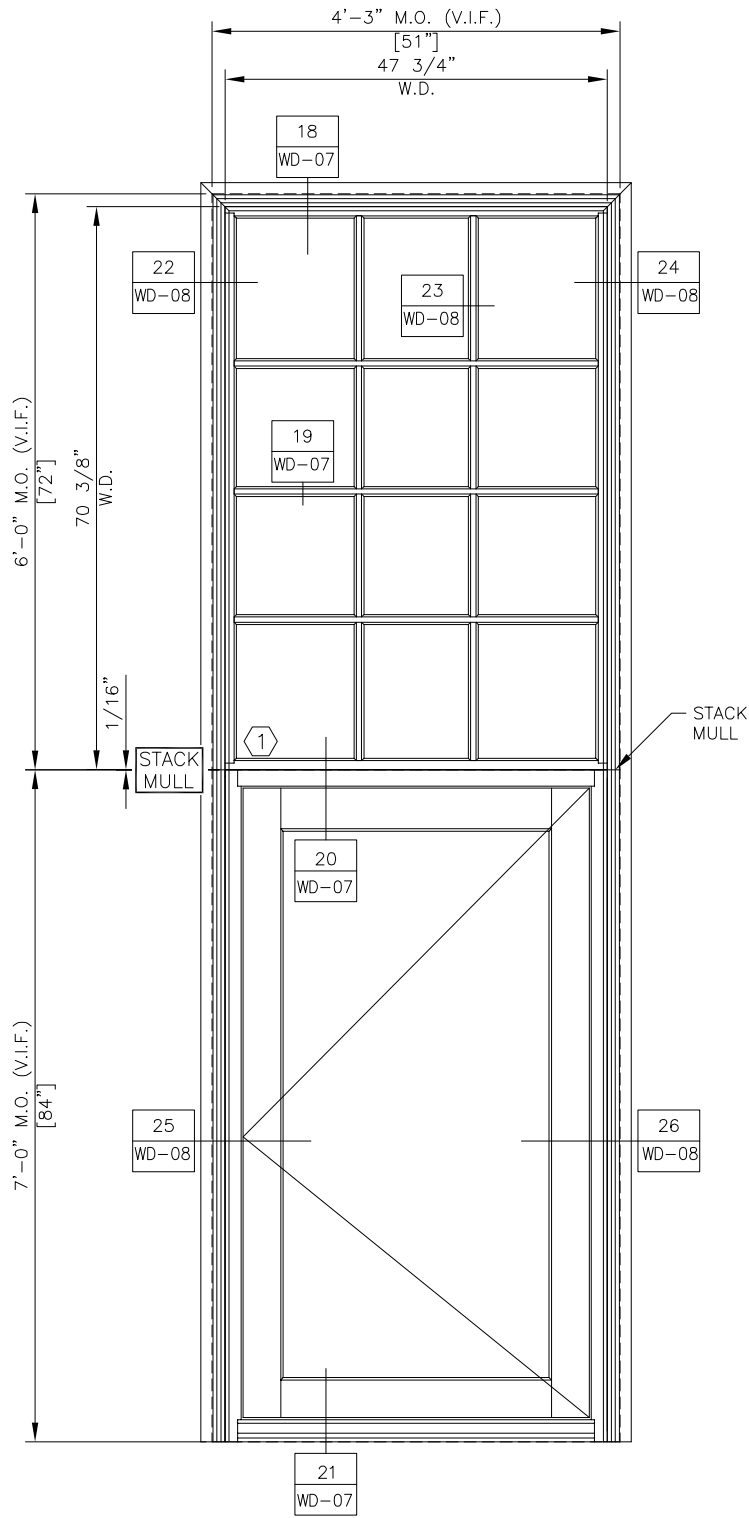


3 (17) REQUIRED THUS
GRAHAM - 1400H FIXED
ARCHITECTURAL REFERENCE: TYPE 3/A401

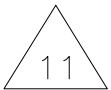
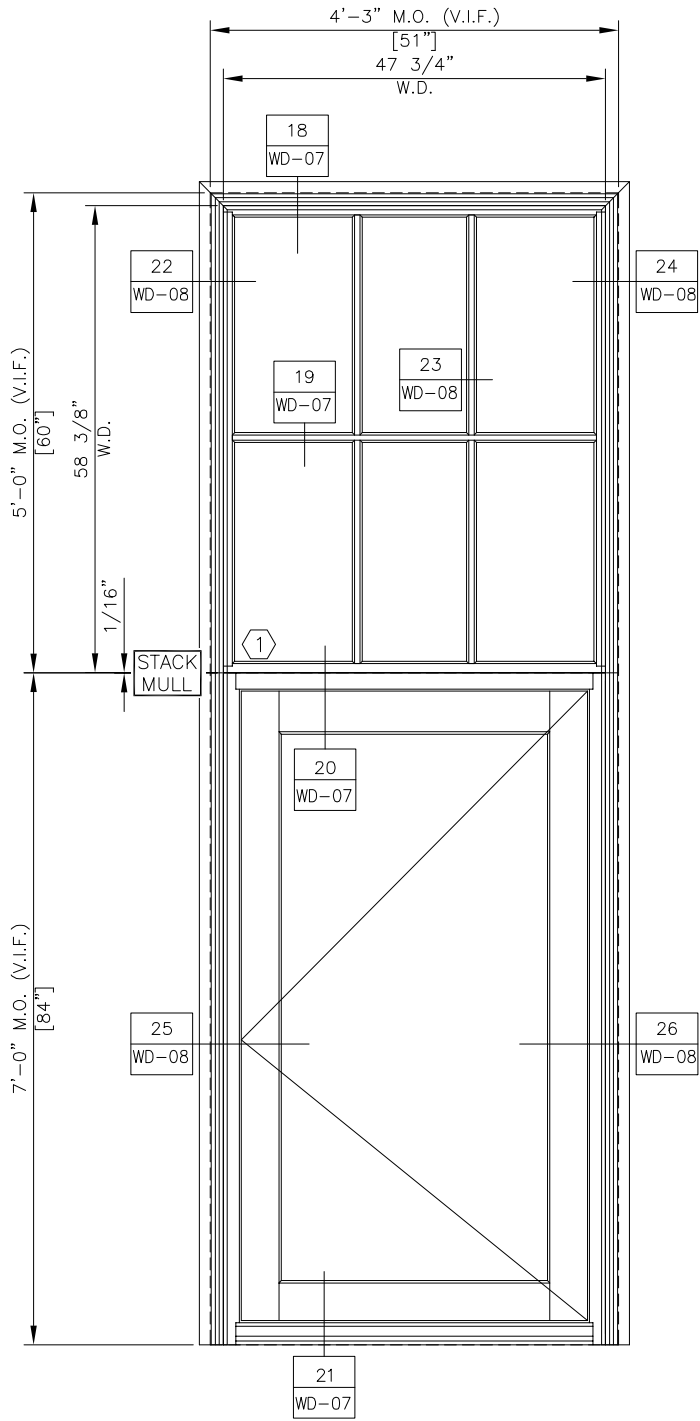


(1) REQUIRED THUS
GRAHAM - 1400H FIXED
ARCHITECTURAL REFERENCE: TYPE 10/A401

 LUECK'S HOME IMPROVEMENTS <i>Where we take pride in your home!</i> Lueck's Home Improvements 706 South Main Street Oshkosh, WI 54902 Phone: 920.235.0106 Fax: 920.235.0145		PROJECT: WHITNEY SCHOOL SERIES: SINGLE HUNG / FIXED MODEL: 2200H SH / 1400H		DRAWING TITLE WINDOW ELEVATIONS		JOB NUMBER 914300		DRAWING NO. WE-03	
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DATE: 09.28.18		DATE: 09.28.18		DATE: 09.28.18		DATE: 09.28.18		DATE: 09.28.18	



(2) REQUIRED THUS
GRAHAM - 1200H FIXED ABOVE TERRACE DOOR
ARCHITECTURAL REFERENCE: TYPE 7/A401



(6) REQUIRED THUS
GRAHAM - 1200H FIXED ABOVE TERRACE DOOR
ARCHITECTURAL REFERENCE: TYPE 7/A401

DRAWING NO.
WE-04

SCALE:
1"=1'-0" AT
22"x34"

REVISIONS	BY	DATE

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DATE:	09.28.18
CHECK BY:	STP/GT
DATE:	09.28.18

PROJECT:	WHITNEY SCHOOL
SERIES:	SINGLE HUNG / FIXED
MODEL:	2200H SH / 1400H



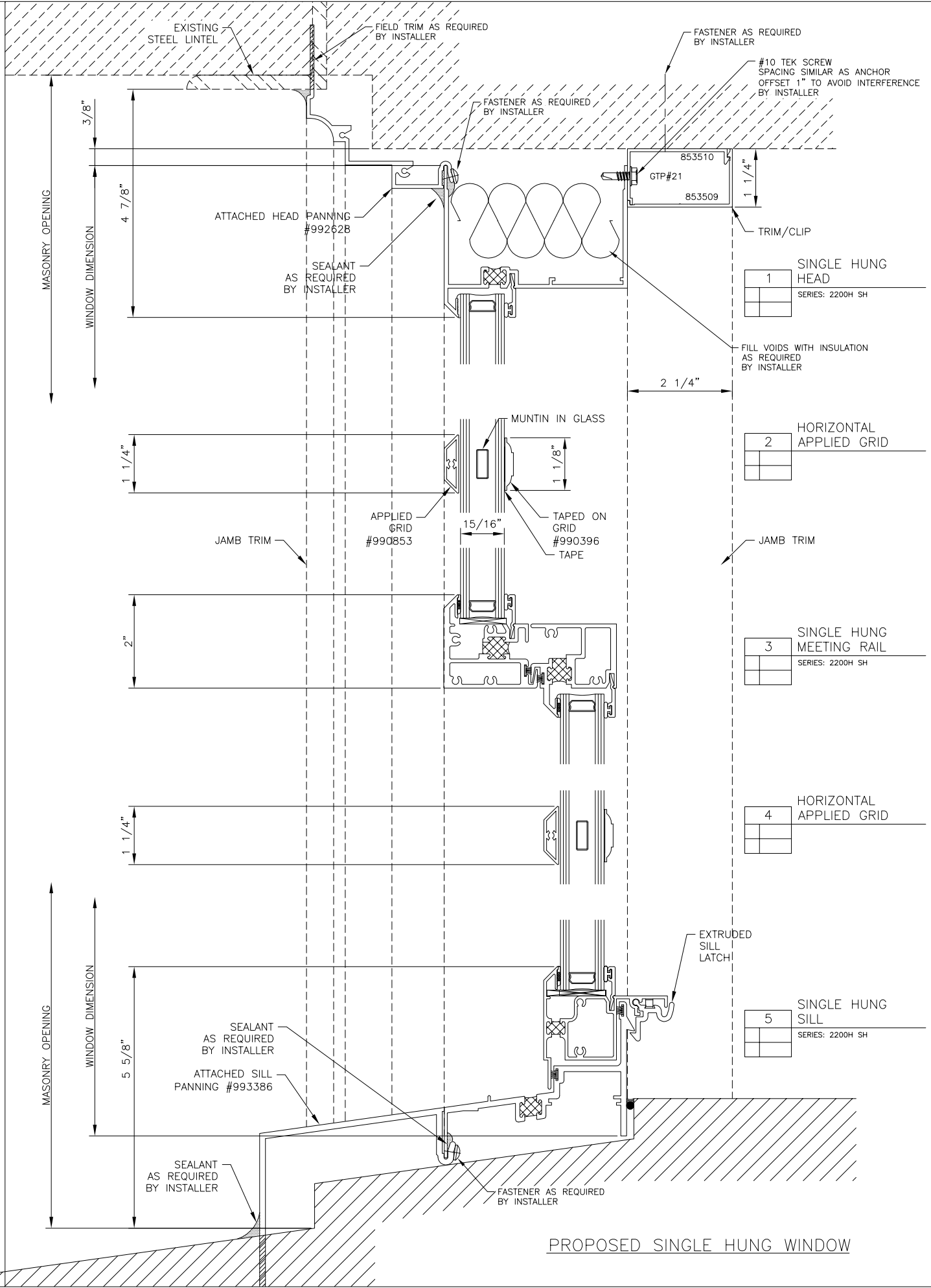
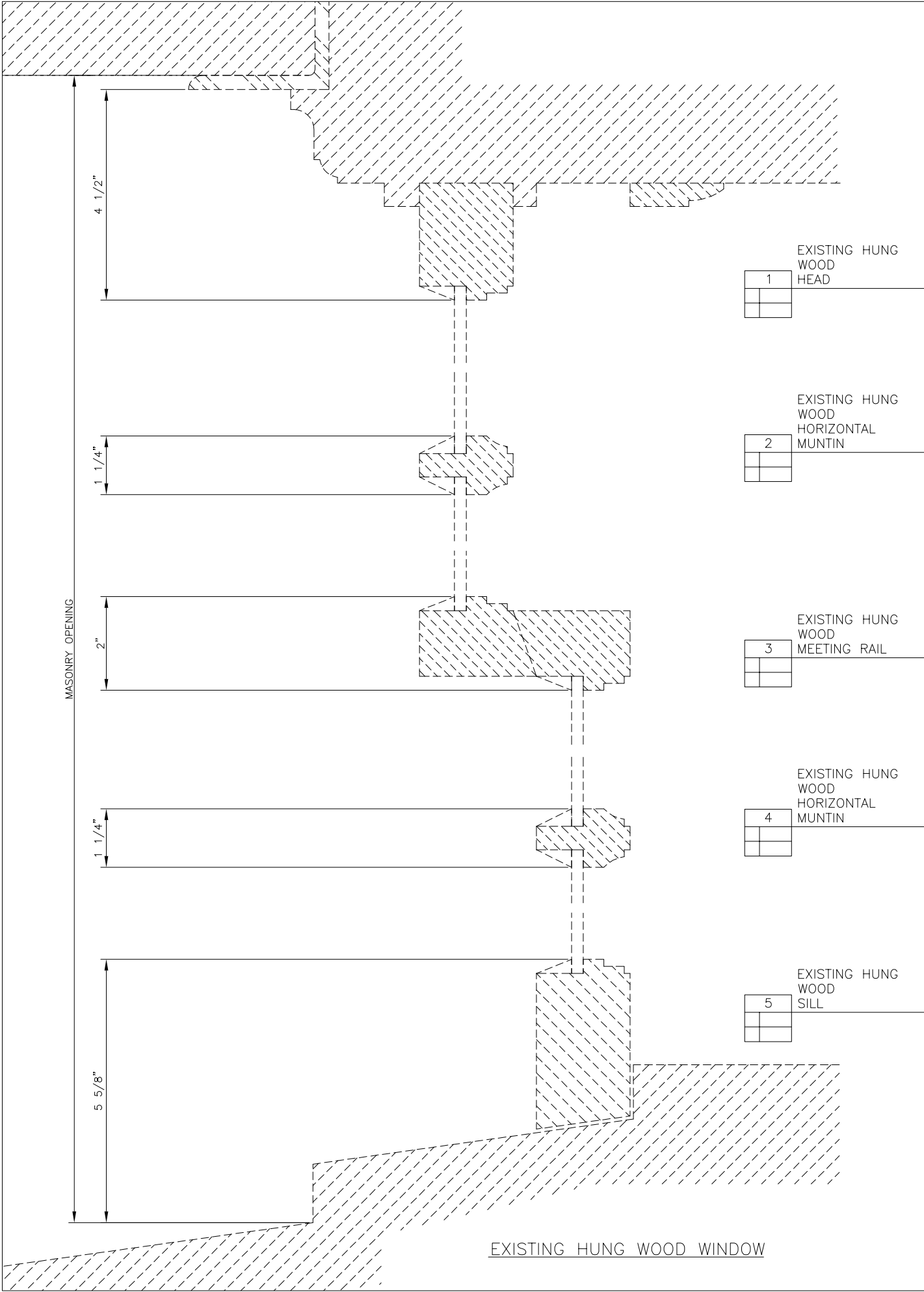
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Oshkosh, WI 54902
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Fax: 920.235.0145

DRAWING TITLE
**WINDOW
ELEVATIONS**

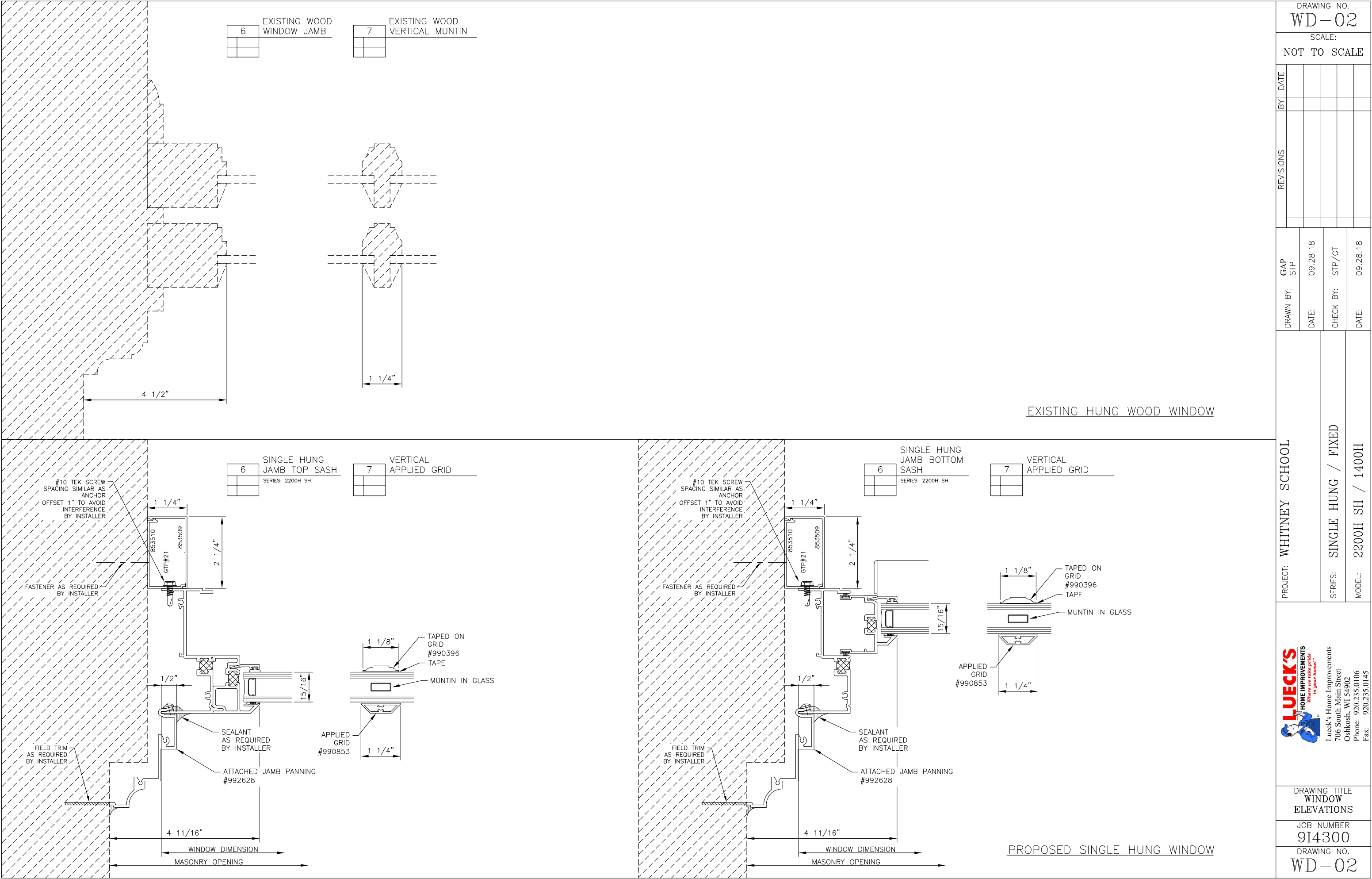
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DRAWING NO.
WE-04

NPS PROPOSAL DETAILS 09.28.18



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DATE	BY
REVISIONS	
GAP STP	DATE
DRAWN BY:	DATE:
CHECK BY:	DATE:
PROJECT: WHITNEY SCHOOL	
SERIES: SINGLE HUNG / FIXED	
MODEL: 2200H SH / 1400H	
 Lueck's Home Improvements 706 South Main Street Oshkosh, WI 54902 Phone: 920.235.0106 Fax: 920.235.0145	
DRAWING TITLE WINDOW ELEVATIONS	
JOB NUMBER 914300	
DRAWING NO. WD-01	



DRAWING NO.
WD-02

SCALE:
NOT TO SCALE

REVISIONS	DATE	BY

DRAWN BY: GAP STP

DATE: 09.28.18

CHECK BY: STP/GT

DATE: 09.28.18

PROJECT: WHITNEY SCHOOL

SERIES: SINGLE HUNG / FIXED

MODEL: 2200H SH / 1400H

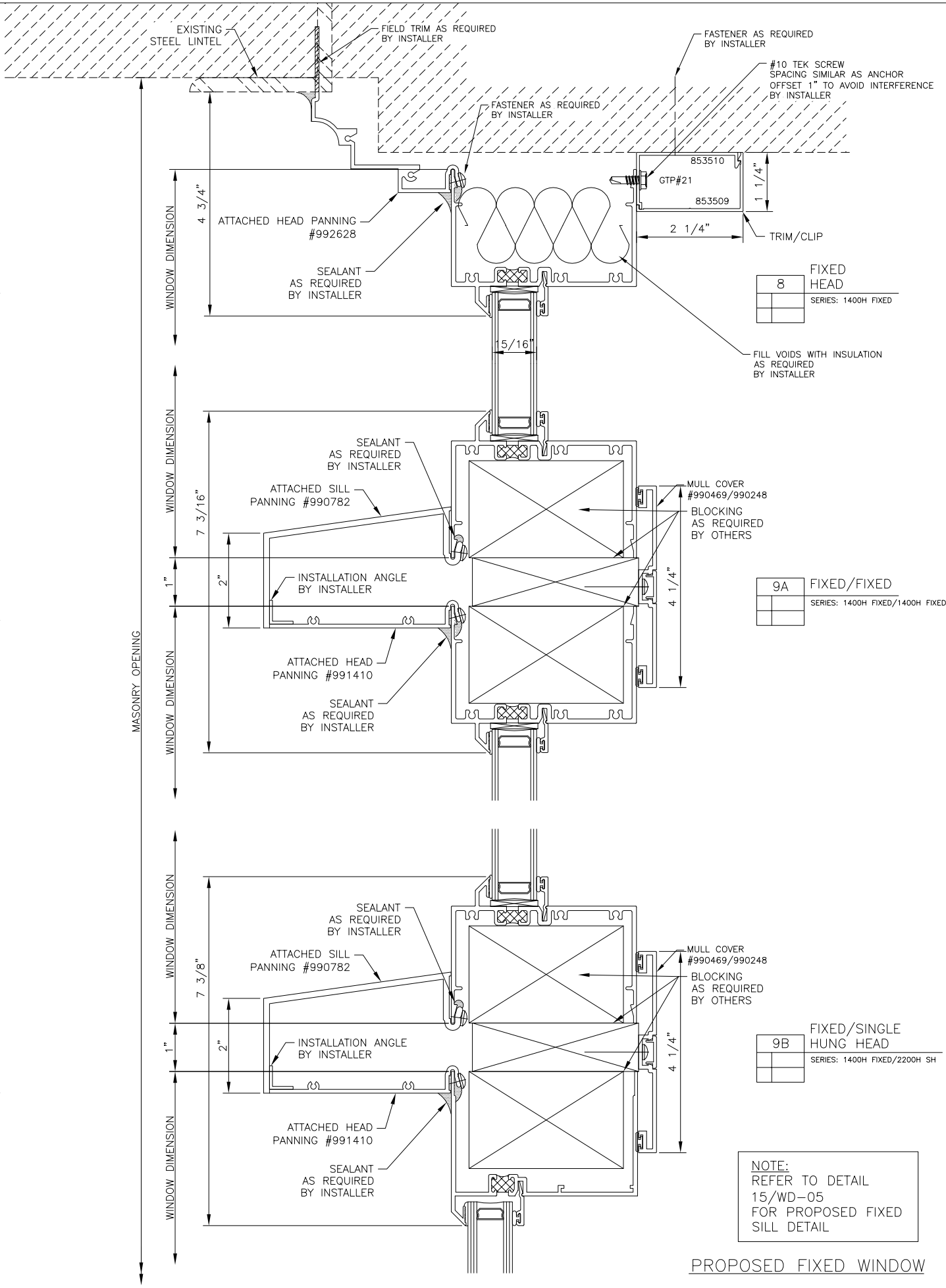
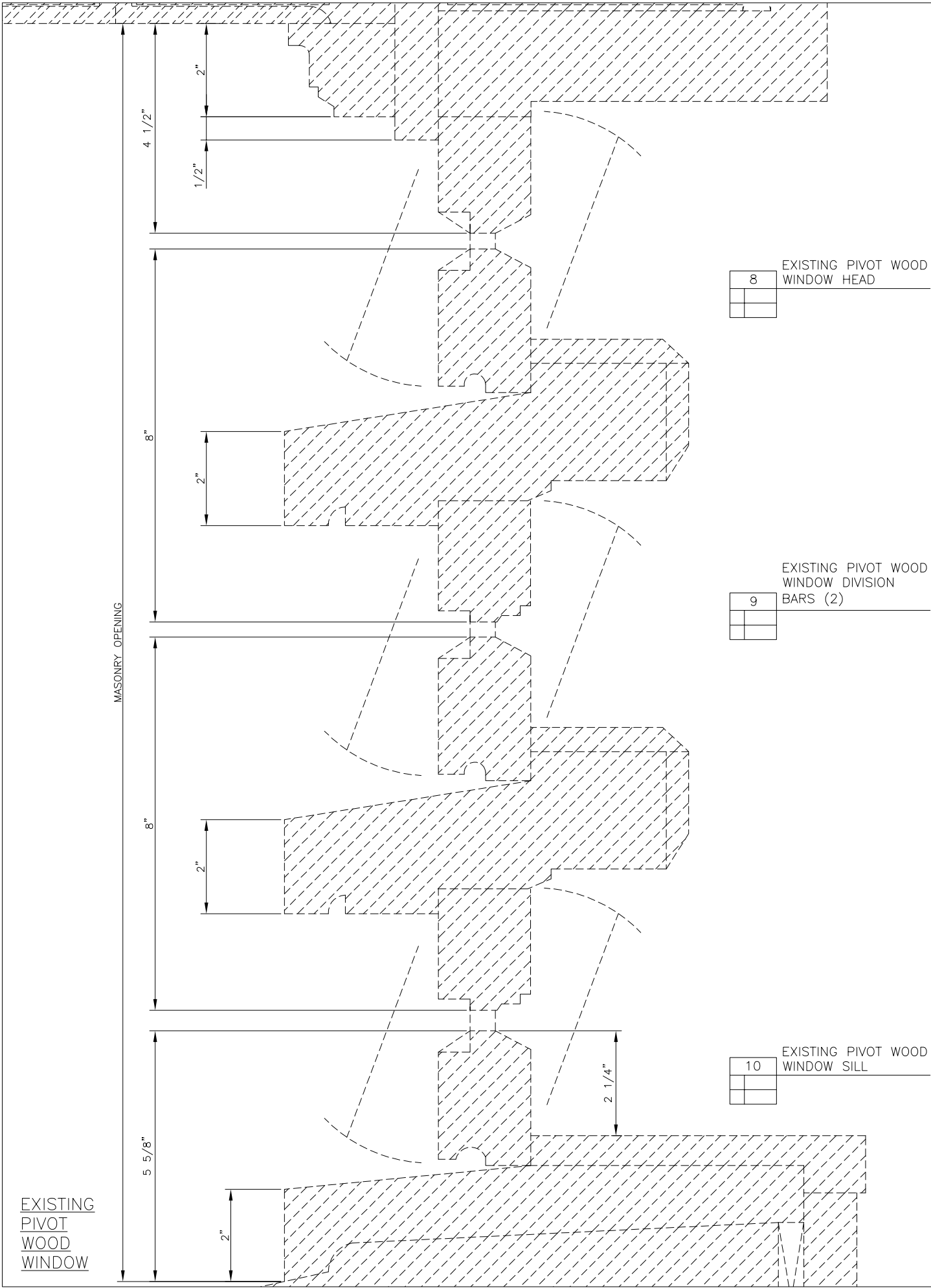
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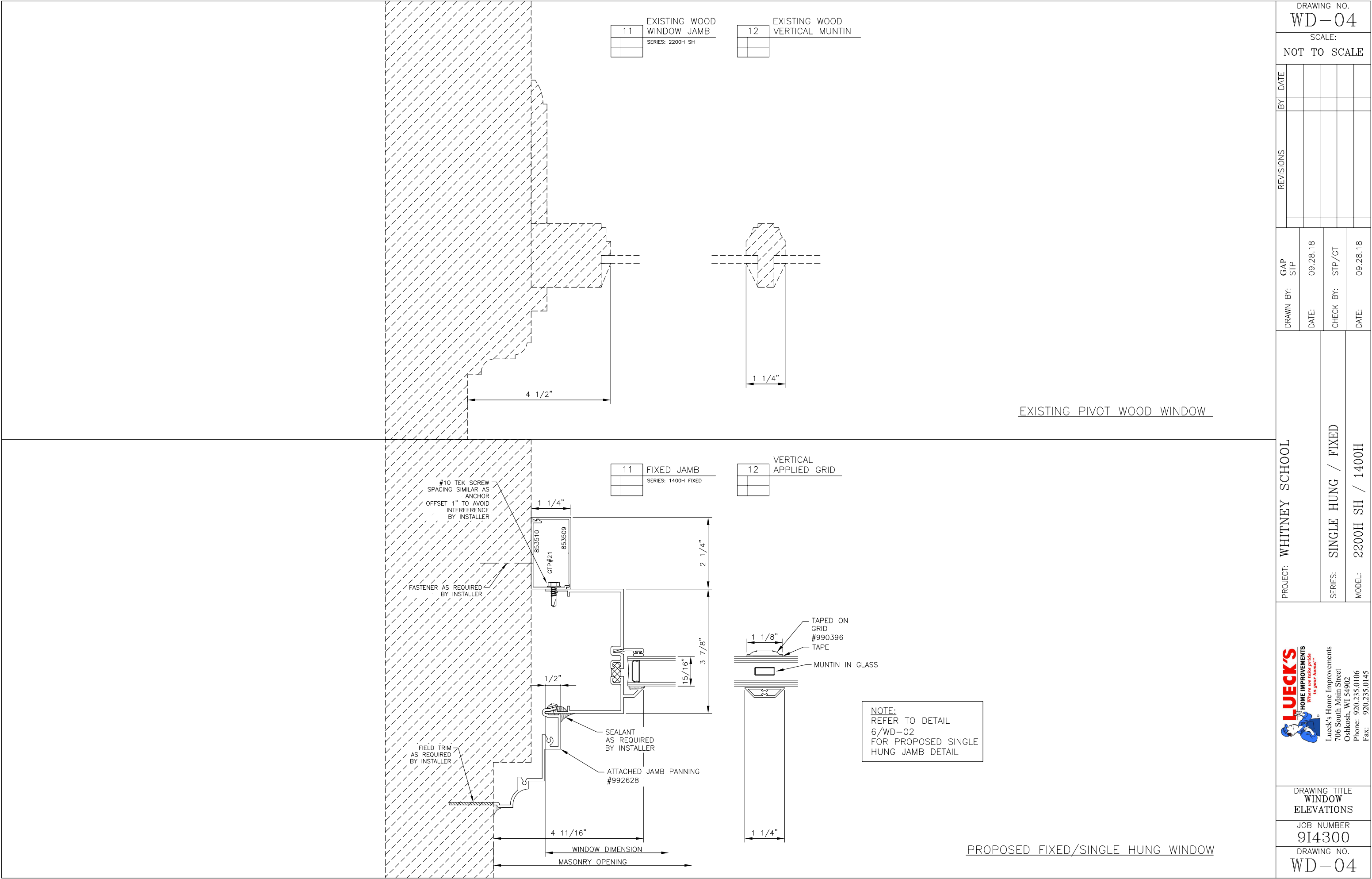
DRAWING TITLE
WINDOW ELEVATIONS

JOB NUMBER
914300

DRAWING NO.
WD-02



DRAWING NO. WD-03	
SCALE: NOT TO SCALE	
DATE	BY
REVISIONS	
DRAWN BY:	GAP STP
DATE:	09.28.18
CHECK BY:	STP/GT
DATE:	09.28.18
PROJECT:	WHITNEY SCHOOL
SERIES:	SINGLE HUNG / FIXED
MODEL:	2200H SH / 1400H
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DRAWING TITLE WINDOW ELEVATIONS	
JOB NUMBER 914300	
DRAWING NO. WD-03	



DRAWING NO.
WD-04

SCALE:
NOT TO SCALE

REVISIONS	BY	DATE

DRAWN BY:	GAP STP
DATE: 09.28.18	DATE: 09.28.18
CHECK BY: STP/GT	DATE: 09.28.18

PROJECT: **WHITNEY SCHOOL**

SERIES: **SINGLE HUNG / FIXED**

MODEL: **2200H SH / 1400H**



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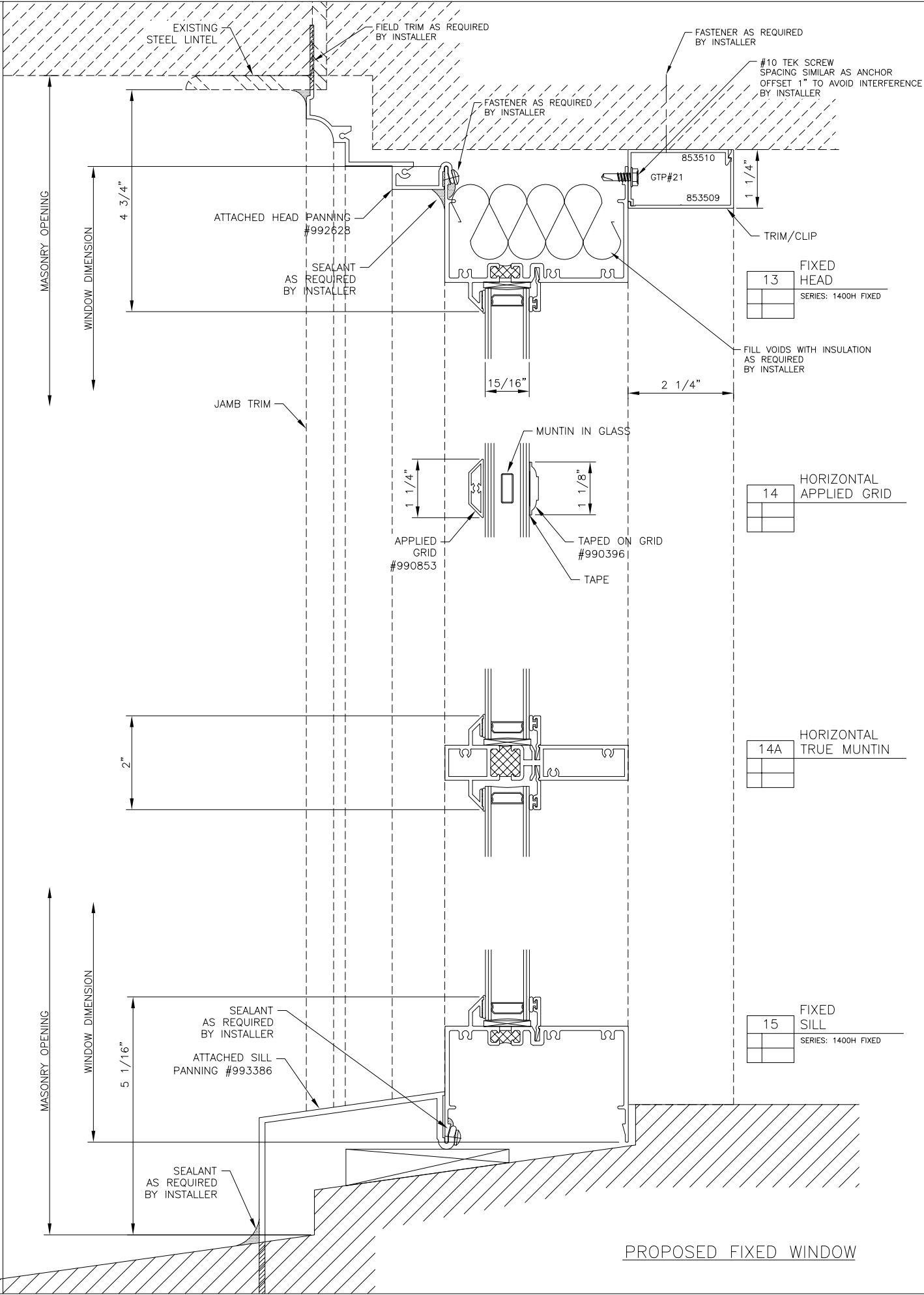
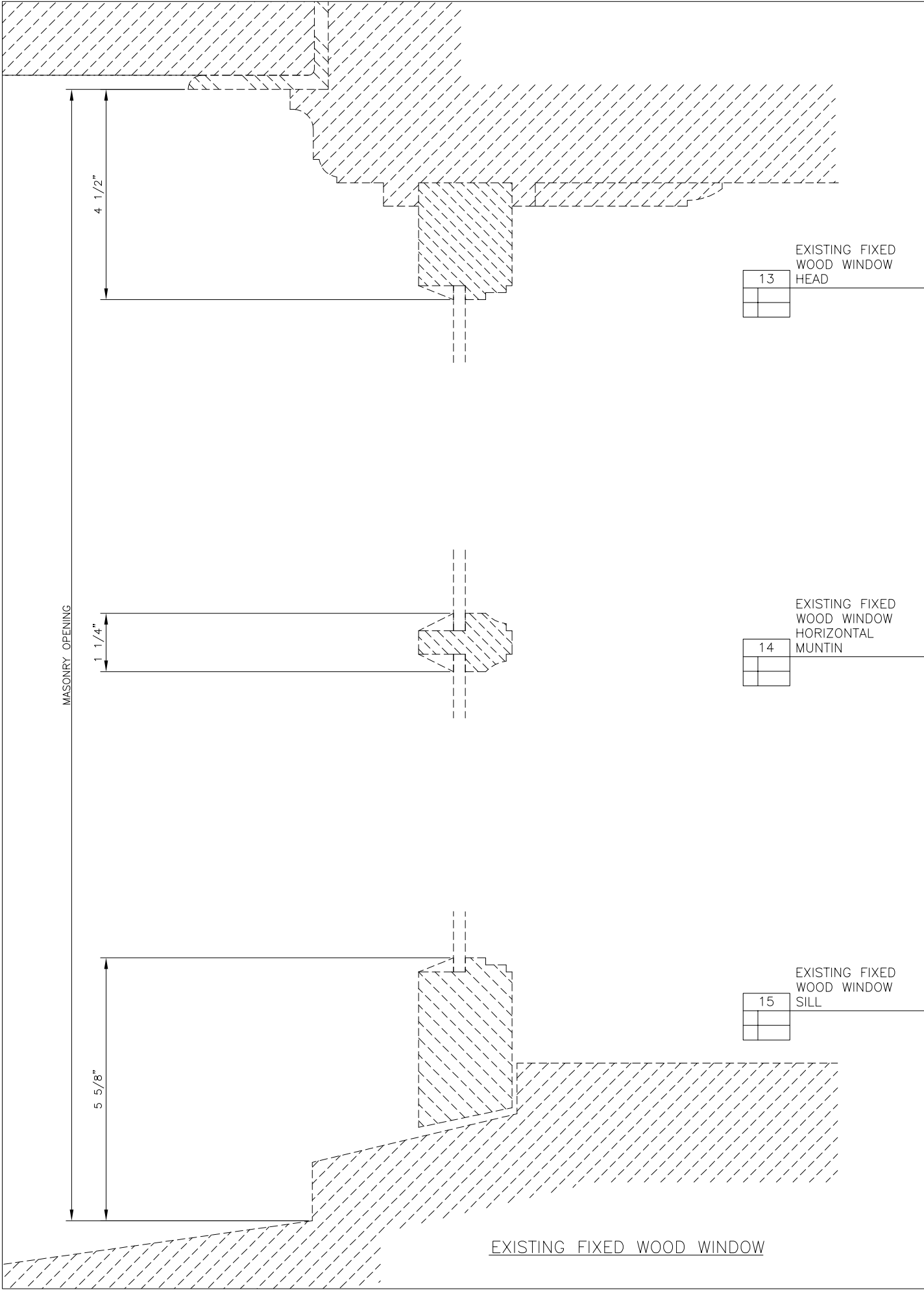
Lueck's Home Improvements
706 South Main Street
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Phone: 920.235.0106
Fax: 920.235.0145

DRAWING TITLE
WINDOW ELEVATIONS

JOB NUMBER
914300

DRAWING NO.
WD-04

NPS PROPOSAL DETAILS 09.28.18



DRAWING NO.
WD-05

SCALE:
NOT TO SCALE

DATE	BY	REVISIONS

DRAWN BY:	GAP STP
DATE: 09.28.18	STP/GT
CHECK BY: 09.28.18	DATE: 09.28.18

PROJECT: WHITNEY SCHOOL

SERIES: SINGLE HUNG / FIXED

MODEL: 2200H SH / 1400H

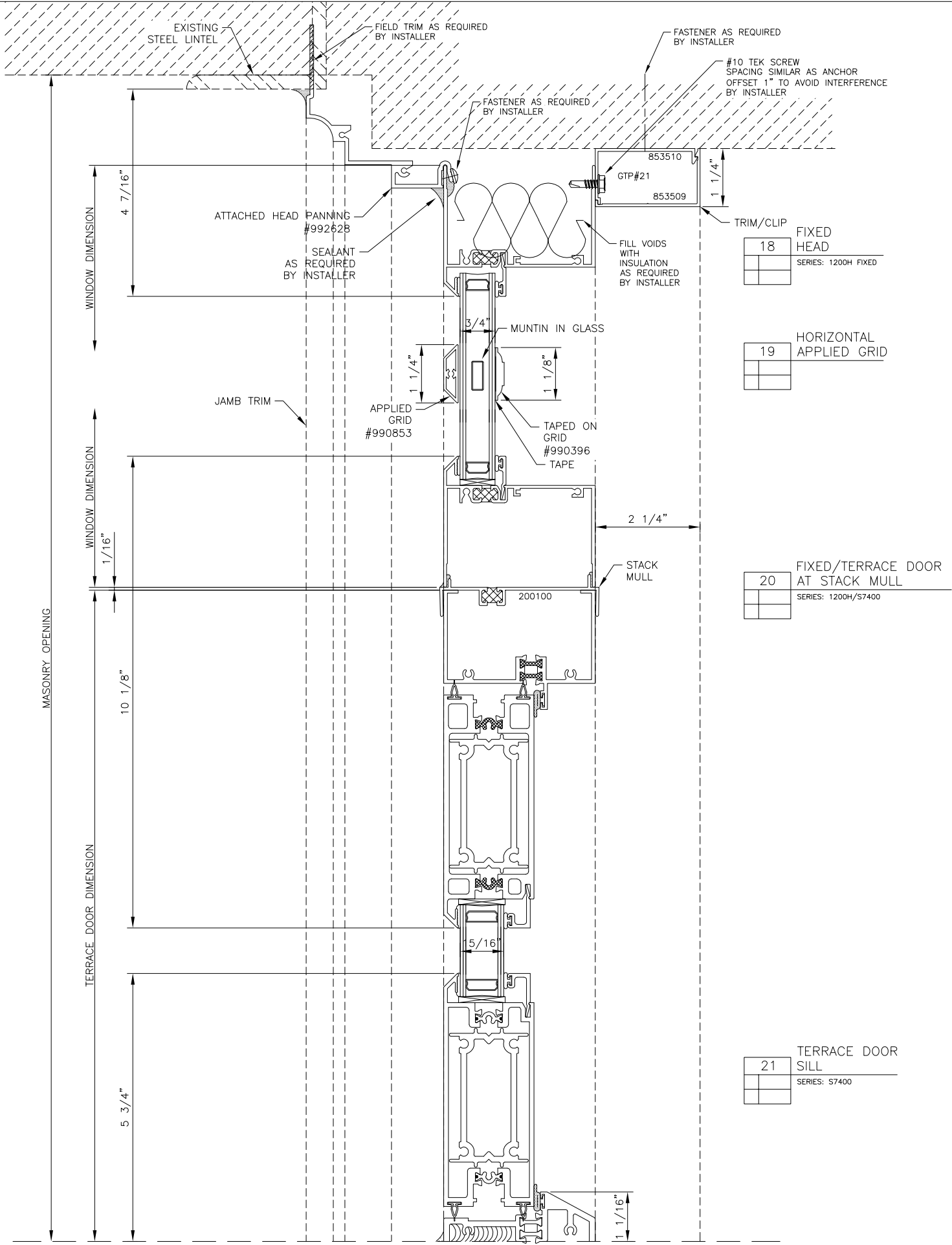
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Fax: 920.235.0145

DRAWING TITLE
WINDOW ELEVATIONS

JOB NUMBER
914300

DRAWING NO.
WD-05



PROPOSED FIXED WINDOW/TERRACE DOOR

DRAWING NO.
WD-07

SCALE:
NOT TO SCALE

REVISIONS	BY	DATE

DRAWN BY:	GAP STP
DATE: 09.28.18	DATE: 09.28.18
CHECK BY: STP/GT	DATE: 09.28.18

PROJECT:	WHITNEY SCHOOL
SERIES:	SINGLE HUNG / FIXED
MODEL:	2200H SH / 1400H

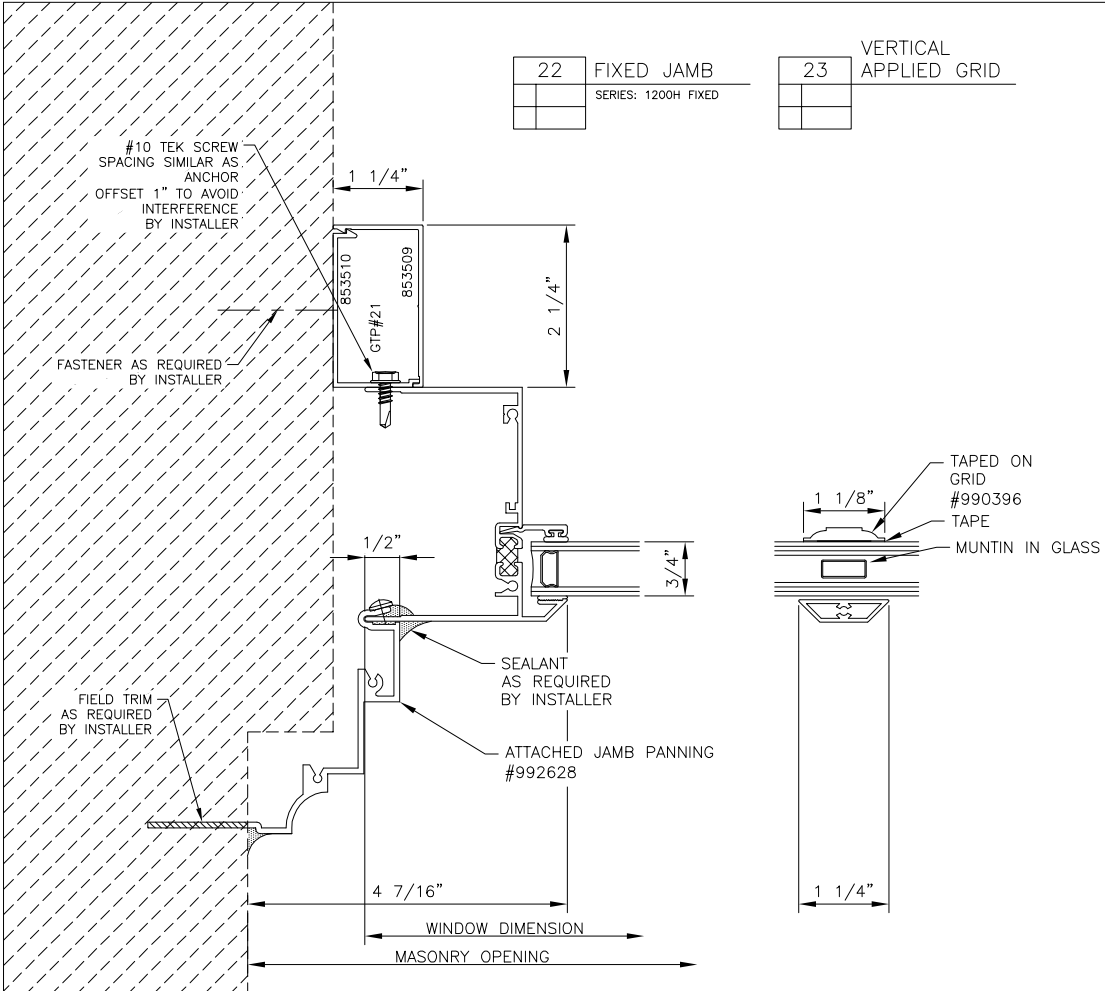
Lueck's Home Improvements
706 South Main Street
Oshkosh, WI 54902
Phone: 920.235.0106
Fax: 920.235.0145

DRAWING TITLE
WINDOW ELEVATIONS

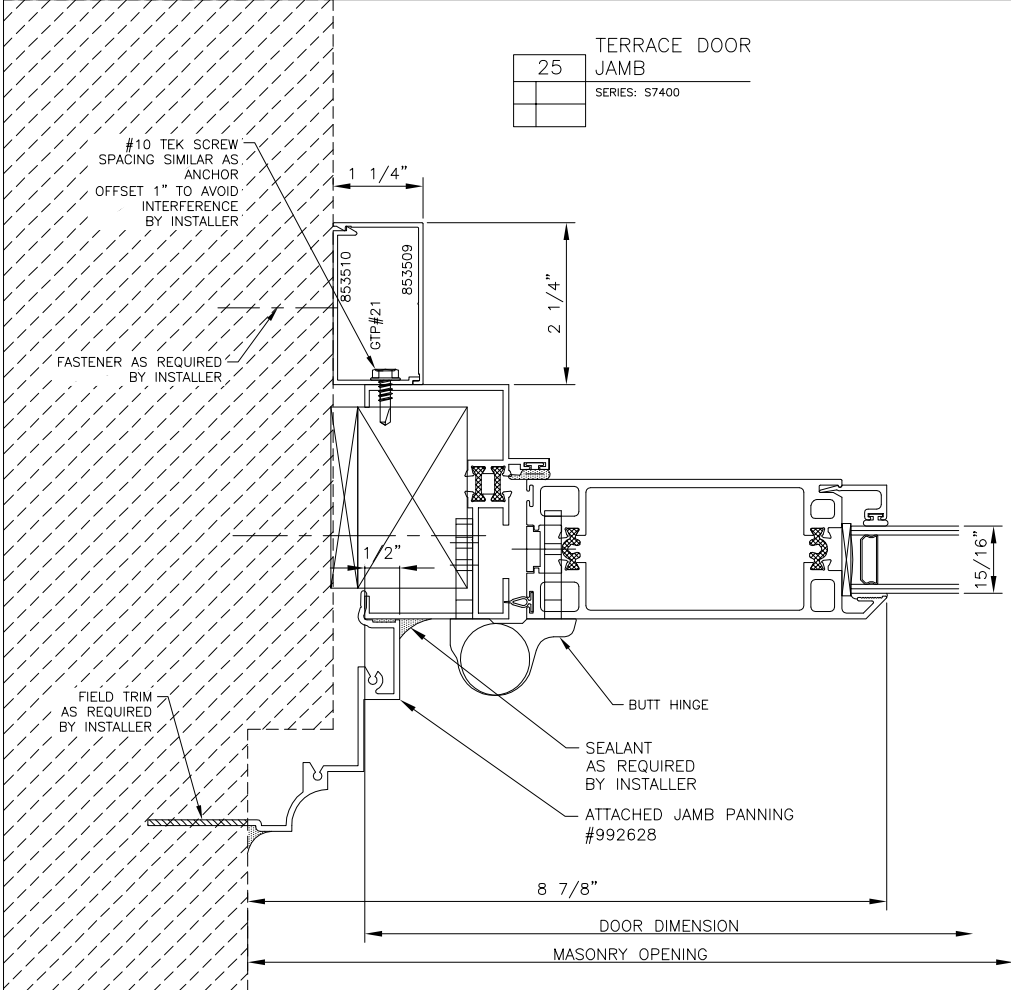
JOB NUMBER
914300

DRAWING NO.
WD-07

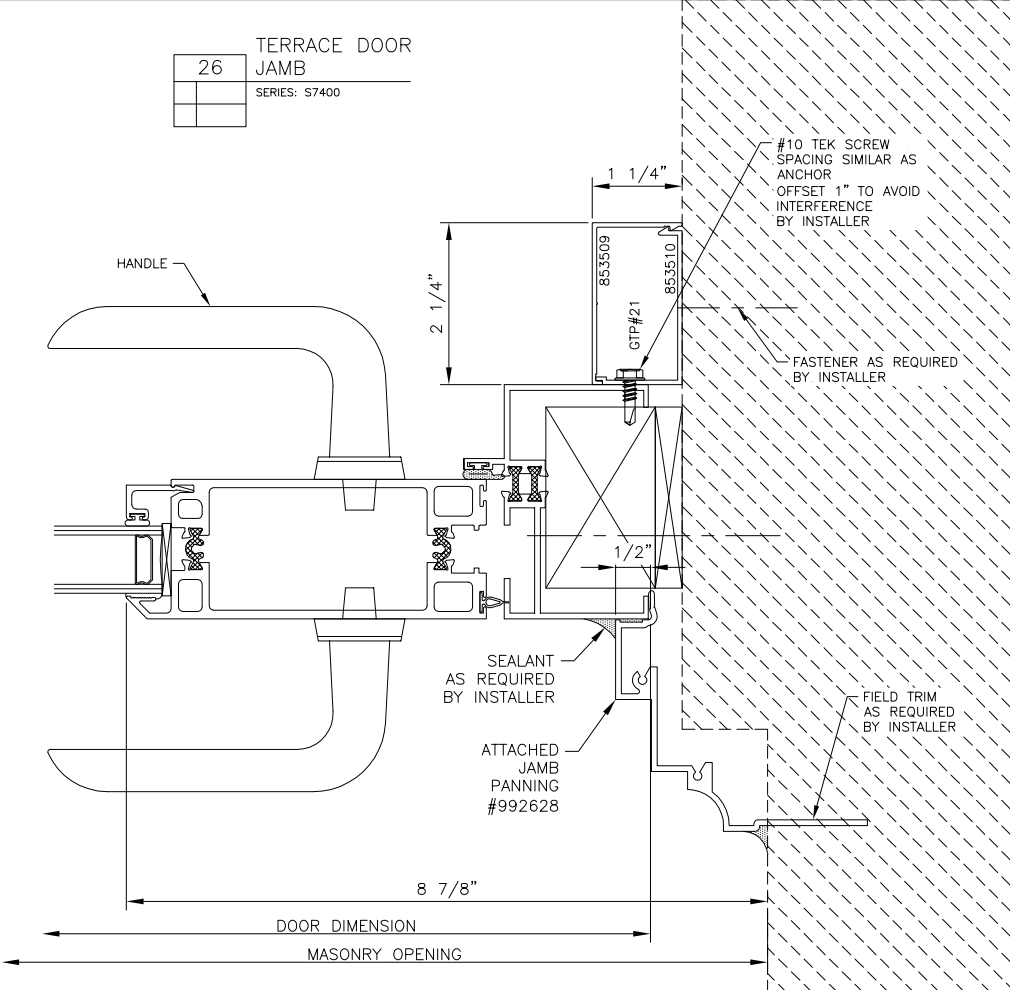
NPS PROPOSAL DETAILS 09.28.18



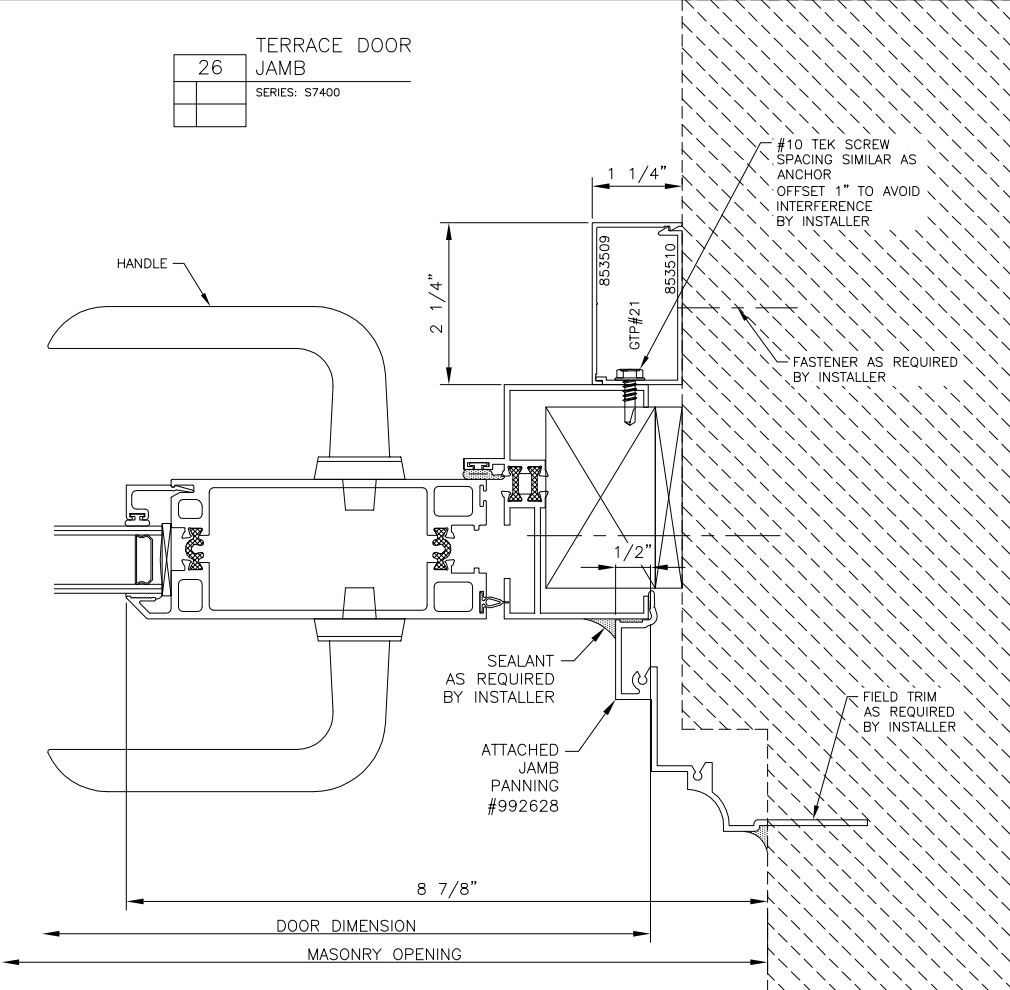
PROPOSED FIXED WINDOW/TERRACE DOOR



PROPOSED FIXED WINDOW/TERRACE DOOR



PROPOSED FIXED WINDOW/TERRACE DOOR



PROPOSED FIXED WINDOW/TERRACE DOOR

DRAWING NO.
WD-08

SCALE:
NOT TO SCALE

DATE	BY	REVISIONS	GAP STP	DRAWN BY:	DATE:	CHECK BY:	DATE:
					09.28.18	STP/GT	09.28.18

PROJECT: **WHITNEY SCHOOL**

SERIES: **SINGLE HUNG / FIXED**

MODEL: **2200H SH / 1400H**

**LUECK'S**
HOME IMPROVEMENTS
Where we take pride in your home™

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DRAWING TITLE
WINDOW ELEVATIONS

JOB NUMBER
914300

DRAWING NO.
WD-08



PPG Extrusion Coatings

WINDOW FINISH COATING

ACRYNAR[®] COATINGS

PRODUCT DATA

PRODUCT DESCRIPTION

ACRYNAR extrusion coatings are two-coat systems consisting of a patented primer and a durable color coat, available in a wide range of solid colors and mica pearlescent flakes. ACRYNAR durable spray coatings offer building architects and specifiers a unique blend of properties which approach the performance of a superior performing AAMA 2605-type coating. They combine PPG proprietary resin and pigment technologies with ultra durable fluoropolymer resin. The result is an AAMA 2604-compliant finish with long-term durability and excellent aesthetics.

SYSTEM OVERVIEW

ACRYNAR durable spray coatings represent a new level of performance for architectural applications. They have the proven painter-friendly application properties that have made DURANAR[®] coatings so popular over the past 30 years. This two-coat system can be applied "wet-on-wet" with

nominal coating thickness of 0.2 mil primer and 1.0 mil topcoat. Film hardnesses of up to 2H can be achieved with ACRYNAR coatings. ACRYNAR coatings offer excellent aesthetics. The proprietary resin technology formulated into these coatings produces hard, yet smooth finishes.

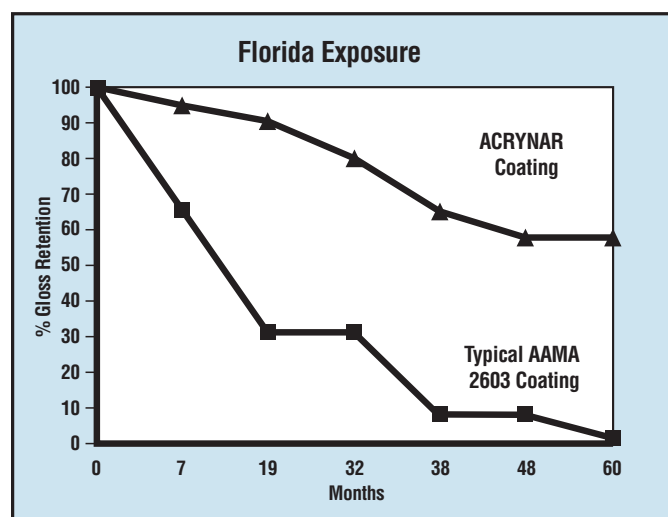
COMMERCIAL USES

Architects and specifiers want coatings that provide an attractive appearance throughout a building's lifetime. ACRYNAR coatings' combination of improved mar resistance and excellent weatherability make them an intelligent choice for use in high traffic areas such as store fronts, schools, hospitals, and high-rise condominiums. It should be

noted that ACRYNAR coatings are not a replacement for PPG DURANAR fluoropolymer coatings which meet the performance requirements of the AAMA 2605 specification. DURANAR coatings are the architectural coatings of choice when ultimate durability and performance are specified.

DURABILITY

ACRYNAR coatings meet the AAMA 2604 weathering specifications of less than 5ΔE units color fade, maximum chalk rating of 8, and greater than 30% gloss retention after five years of exposure in south Florida. For projects requiring easy-to-apply finishes that are mar resistant and offer improved long-term durability, ACRYNAR durable spray coatings are the best choice.



Five-Year Florida Weathering Data Comparison

ACRYNAR, DURANAR and the PPG logo are registered trademarks and the PPG Certified Applicator Program logo is a service mark of PPG Industries, Inc.

PPG CAP
CERTIFIED APPLICATOR[™] PROGRAM



PPG Extrusion Coatings

ACRYNAR[®] COATINGS

PRODUCT DATA

ACRYNAR SPECIFICATIONS	
Colors Available	A wide range of solid colors and pearlescents
Dry Film Thickness ASTM D1400	0.2 mil min. primer 1.0 mil min. color coat
Gloss ASTM D523 @ 60°	Low and medium
Pencil Hardness ASTM D3363	F minimum
Cross Hatch Adhesion 1/16" wet and dry	No removal
Direct Impact 1/10" distortion	No removal
Abrasion - Sand Falling ASTM D968	40 l/mil
Acid Resistance ASTM D1308 10% muriatic acid spot test	No attack
Alkali Resistance Mortar pat test 100% relative humidity @ 100°F	24 hours – No attack
Detergent Resistance 3% immersion @ 100°F	72 hours – No attack
Salt Spray Resistance ASTM B117, 3000 hrs. 5% NaCl @ 95°F	1/16" maximum undercutting
Humidity Resistance ASTM D714 ASTM D2247, 3000 hrs. 100% relative humidity @ 100°F	Up to few #8 blisters maximum
Exterior Exposure 5 yrs. @ 45°, south Florida ASTM D2244 ASTM D4214 Film Integrity Gloss Retention	Maximum 5ΔE color change Maximum 8 chalk rating Very good Greater than 30%

ACRYNAR WARRANTY INFORMATION

PPG offers a comprehensive warranty on ACRYNAR extrusion coatings. For complete warranty information and a copy of the ACRYNAR extrusion coatings warranty, please call PPG at **1-800-258-6398**.



CARDINAL'S INSULATING GLASS PERFORMANCE COMPARISON - 2012



Clear Glass Products

3mm/12.7/3mm													
Clear / No Coating	82%	15%	15%	0.89	0.78	0.48	n/a	44	90	75%	58%	No	No
LoE-180 #2 (e=.083)	79%	15%	15%	0.74	0.64	0.31	0.26	55	87	63%	29%	No	No
LoE-180 #3 (e=.083)	79%	15%	15%	0.79	0.69	0.31	0.26	55	94	63%	29%	No	No
LoE²-272 #2 (e=.042)	72%	11%	12%	0.48	0.41	0.30	0.25	56	84	55%	16%	No	No
LoE²-272 #3 (e=.042)	72%	12%	11%	0.57	0.50	0.30	0.25	56	98	55%	16%	No	No
LoE²-270 #2 (e=.037)	70%	12%	13%	0.42	0.37	0.30	0.25	56	83	53%	14%	No	No
LoE²-270 #3 (e=.037)	70%	13%	12%	0.52	0.46	0.30	0.25	56	99	53%	14%	No	No
LoE³-366 #2 (e=.022)	65%	11%	12%	0.31	0.27	0.29	0.24	56	83	43%	5%	No	No
LoE²-240 #2 (e=.057)	40%	14%	10%	0.29	0.25	0.30	0.26	55	86	35%	16%	No	No
4mm/12.7/4mm													
Clear / No Coating	82%	15%	15%	0.87	0.75	0.48	n/a	44	93	74%	55%	No	No
LoE-180 #2 (e=.083)	79%	15%	15%	0.72	0.63	0.31	0.26	55	89	62%	27%	No	No
LoE-180 #3 (e=.083)	79%	15%	15%	0.77	0.67	0.31	0.26	55	96	62%	27%	No	No
LoE²-272 #2 (e=.042)	71%	11%	12%	0.47	0.41	0.30	0.25	56	85	54%	16%	No	No
LoE²-272 #3 (e=.042)	71%	12%	11%	0.57	0.49	0.30	0.25	56	99	54%	16%	No	No
LoE²-270 #2 (e=.037)	69%	12%	13%	0.42	0.36	0.29	0.25	56	84	52%	14%	No	No
LoE²-270 #3 (e=.037)	69%	13%	12%	0.52	0.45	0.29	0.25	56	99	52%	14%	No	No
LoE³-366 #2 (e=.022)	64%	11%	12%	0.31	0.27	0.29	0.24	56	83	42%	5%	No	No
LoE²-240 #2 (e=.057)	39%	14%	10%	0.28	0.25	0.30	0.26	56	87	34%	15%	No	No
5mm/12.7/5mm													
Clear / No Coating	81%	15%	15%	0.85	0.74	0.48	n/a	44	94	72%	51%	No	No
LoE-180 #2 (e=.083)	78%	15%	14%	0.71	0.62	0.30	0.26	55	90	61%	26%	No	No
LoE-180 #3 (e=.083)	78%	14%	15%	0.76	0.66	0.30	0.26	55	97	61%	26%	No	No
LoE²-272 #2 (e=.042)	71%	10%	11%	0.47	0.41	0.29	0.25	56	86	53%	15%	No	No
LoE²-272 #3 (e=.042)	71%	11%	10%	0.56	0.49	0.29	0.25	56	99	53%	15%	No	No
LoE²-270 #2 (e=.037)	69%	12%	12%	0.41	0.36	0.29	0.25	56	85	51%	13%	No	No
LoE²-270 #3 (e=.037)	69%	12%	12%	0.52	0.45	0.29	0.25	56	100	51%	13%	No	No
LoE³-366 #2 (e=.022)	64%	11%	11%	0.31	0.27	0.29	0.24	56	84	42%	5%	No	No
LoE²-240 #2 (e=.057)	39%	14%	10%	0.28	0.25	0.30	0.25	56	87	34%	14%	No	No
6mm/12.7/6mm													
Clear / No Coating	80%	15%	15%	0.83	0.72	0.47	n/a	44	96	70%	48%	No	No
LoE-180 #2 (e=.083)	77%	15%	14%	0.69	0.60	0.30	0.26	55	92	60%	24%	No	No
LoE-180 #3 (e=.083)	77%	14%	15%	0.73	0.64	0.30	0.26	55	98	60%	24%	No	No
LoE²-272 #2 (e=.042)	70%	10%	11%	0.46	0.40	0.29	0.25	56	87	53%	14%	No	No
LoE²-272 #3 (e=.042)	70%	11%	10%	0.55	0.48	0.29	0.25	56	100	53%	14%	No	No
LoE²-270 #2 (e=.037)	68%	12%	12%	0.41	0.36	0.29	0.25	56	86	50%	13%	No	No
LoE²-270 #3 (e=.037)	68%	12%	12%	0.51	0.44	0.29	0.25	56	100	50%	13%	No	No
LoE³-366 #2 (e=.022)	63%	11%	11%	0.31	0.27	0.29	0.24	56	85	41%	4%	No	No
LoE²-240 #2 (e=.057)	37%	13%	10%	0.28	0.24	0.30	0.25	56	88	32%	13%	No	No

GENERAL NOTES:

- (1) Data was calculated using the Window 6.3 computer program with NFRC 100-2010 environmental conditions.
- (2) 90% argon/10% air fill is used for IG's with LoE coated glass, otherwise 100% air fill is used for uncoated units.
- (3) The UV Transmittance is determined as an average for wavelengths 300 - 380 nm.
- (4) UV Damage Weighted Transmittance (T_{dw}) is the weighted average for wavelengths 300 - 700 nm (based on CIE 89/3).
- (5) "Indoor Glass Temperatures" are taken from the center portion of the glass.