



RICHARD W. BEISSER, ARCHITECT
951 N. 31st Street
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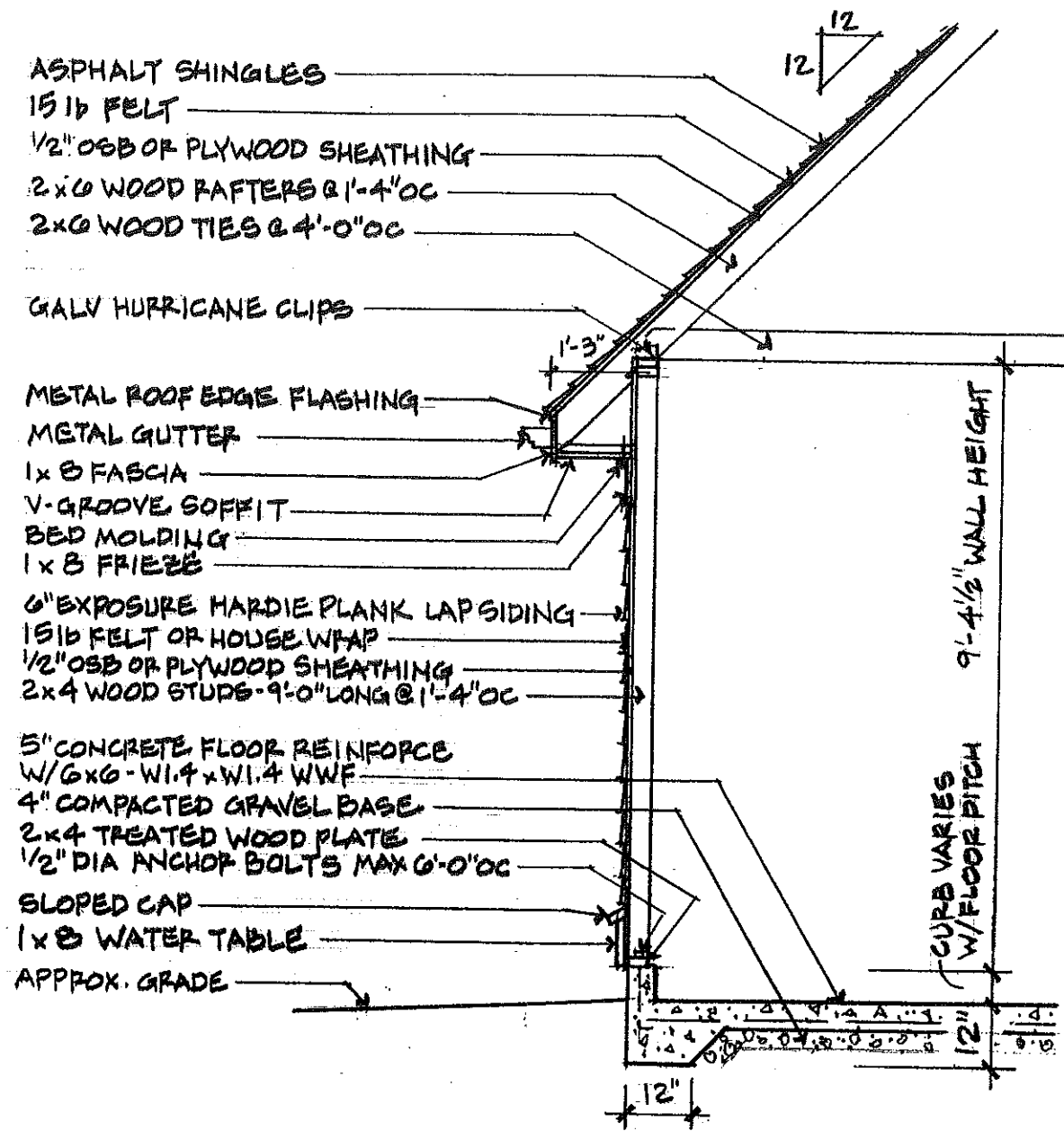
DATE GARAGE
2565 N. TERRACE AVE, MILWAUKEE
STRUCTURAL
CALCULATIONS

DATE
JUL 21, 2019
BY
R W BEISSER
SHEET 1 OF 1

ROOF LOAD		WALLS	
LIVE LOAD	30 psf	SIDING	7 psf
SHIMMERS	5 psf	1/2" OSB	2.2 psf
1/2" OSB	2.2 psf	2x4@16'	1.6 psf
2x6@16'	1.7 psf	TOTAL	11 psf
2x6@4'	.6 psf		
TOTAL	40 psf		

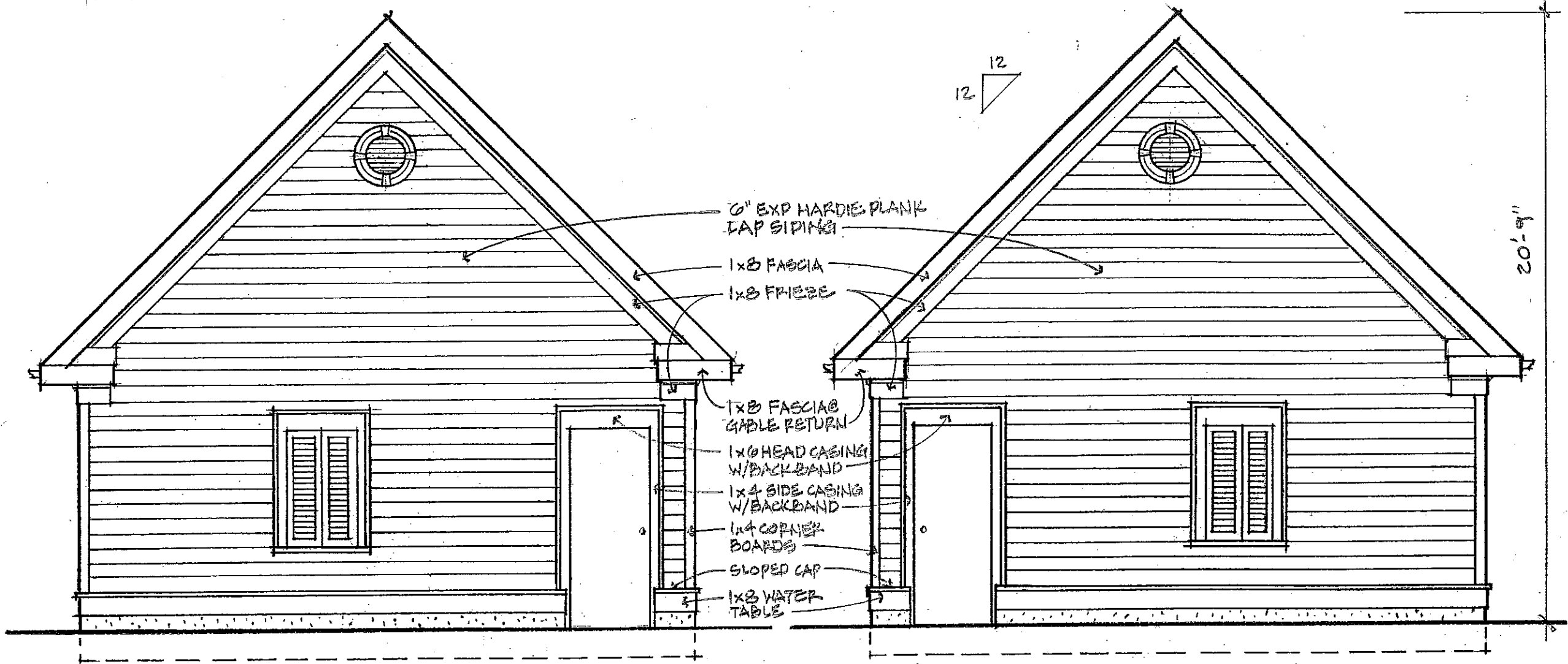
* RAFTERS 10'-0" SPAN WISCONSIN UDC TABLE R-14
2x6@16' OC SPF(S) #2 F_b = 1290 psi E = 1,100,000 psi ALLOW SPAN = 11'-0"

* OVERHEAD DOOR HEADER 17'-3" SPAN
LOAD $\left[\left(\frac{21}{2} + 1.25 \right) \times 40 \text{ psf ROOF} \right] + (3' \times 11 \text{ psf WALL}) + 18 \text{ PIER} = 521 \text{ plf}$
 $V = \frac{wL}{2} = \frac{521(17.25')}{2} = 4494 \text{ lbs}$ $M = \frac{wL^2}{8} = \frac{521(17.25')^2}{8} = 19379 \text{ ft-lbs}$
 USE 2-13/4" x 14" MICROLAM LVLS $V = 9310 \text{ lbs}$ $M = 24260 \text{ ft-lbs}$
 OR 3-13/4" x 11 1/4" MICROLAM LVLS $V = 11220 \text{ lbs}$ $M = 24210 \text{ ft-lbs}$
 OR 2-13/4" x 11 7/8" RIGIDLAM LVLS $V = 8036 \text{ lbs}$ $M = 21278 \text{ ft-lbs}$



CONSTRUCTION SECTION
 SCALE: 3/8" = 1'-0"

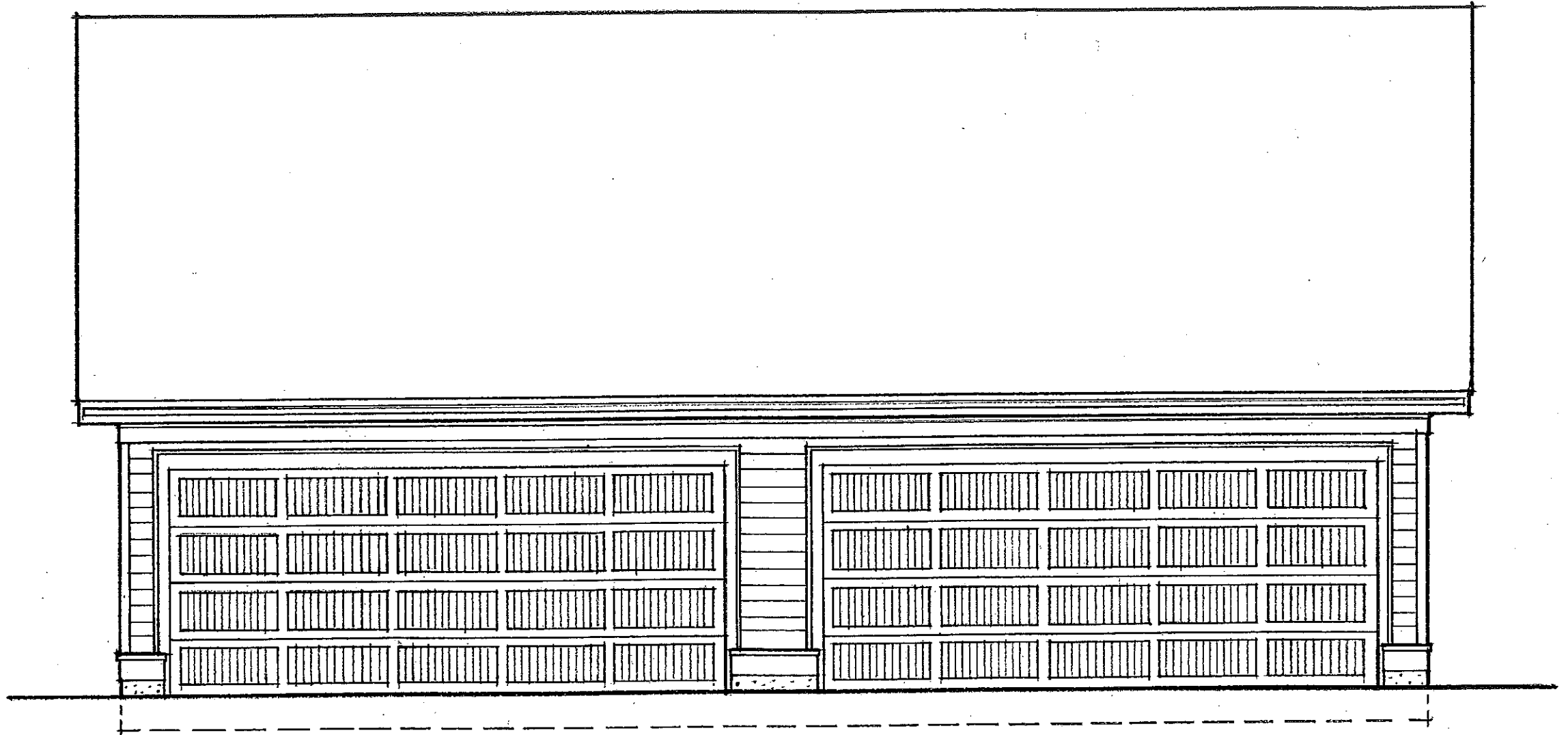
2565 – 2567 N Terrace Ave, Milwaukee
 The Charles A Sercombe Residence
 Garage addition
 Project Number 40105 for the National Park Service
 Owner & Contractor G Parcel LLC
 (414) 708-2332 Attn: Chester Daxe



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

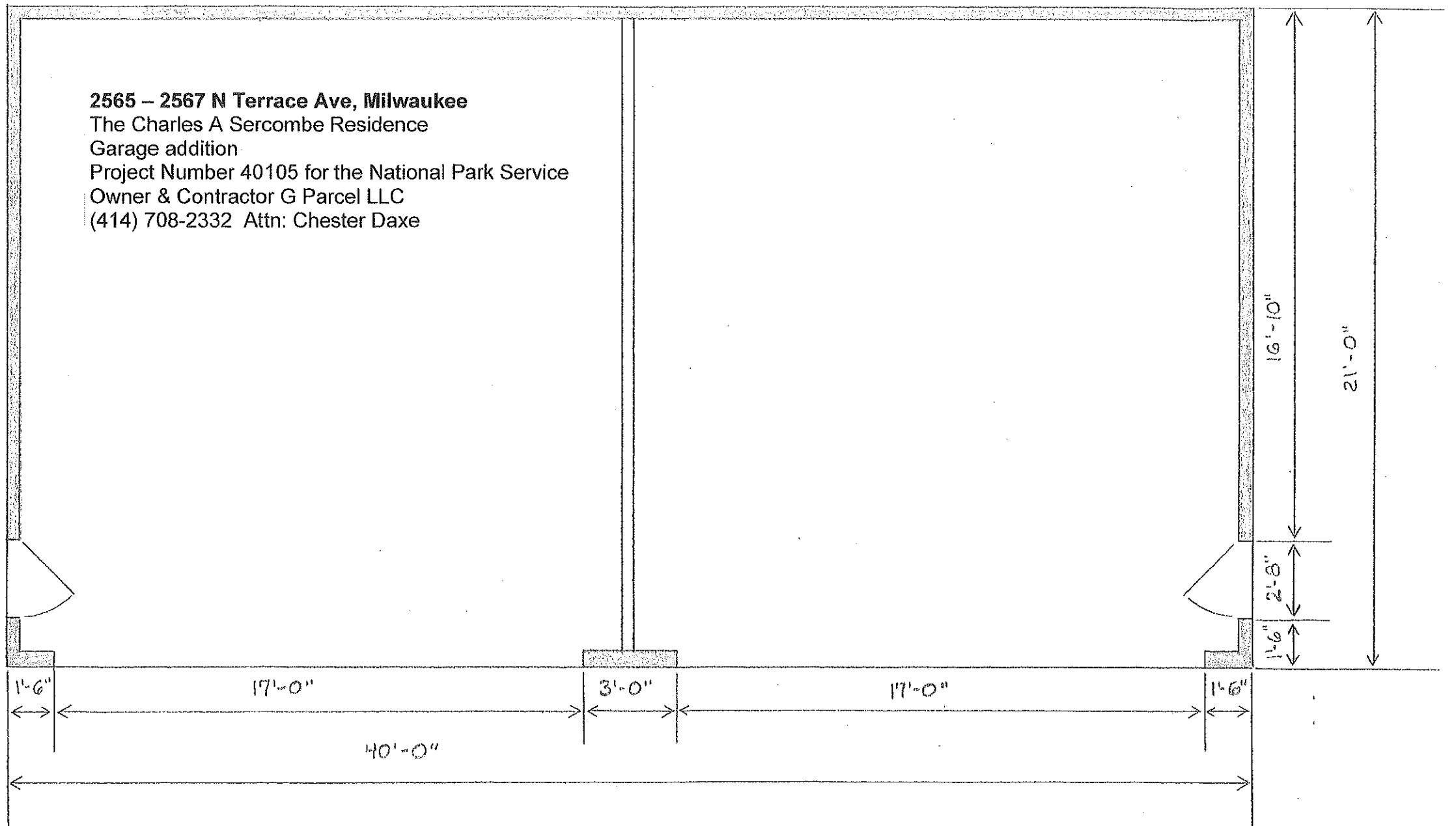
NORTH ELEVATION
 SCALE: 1/4" = 1'-0"

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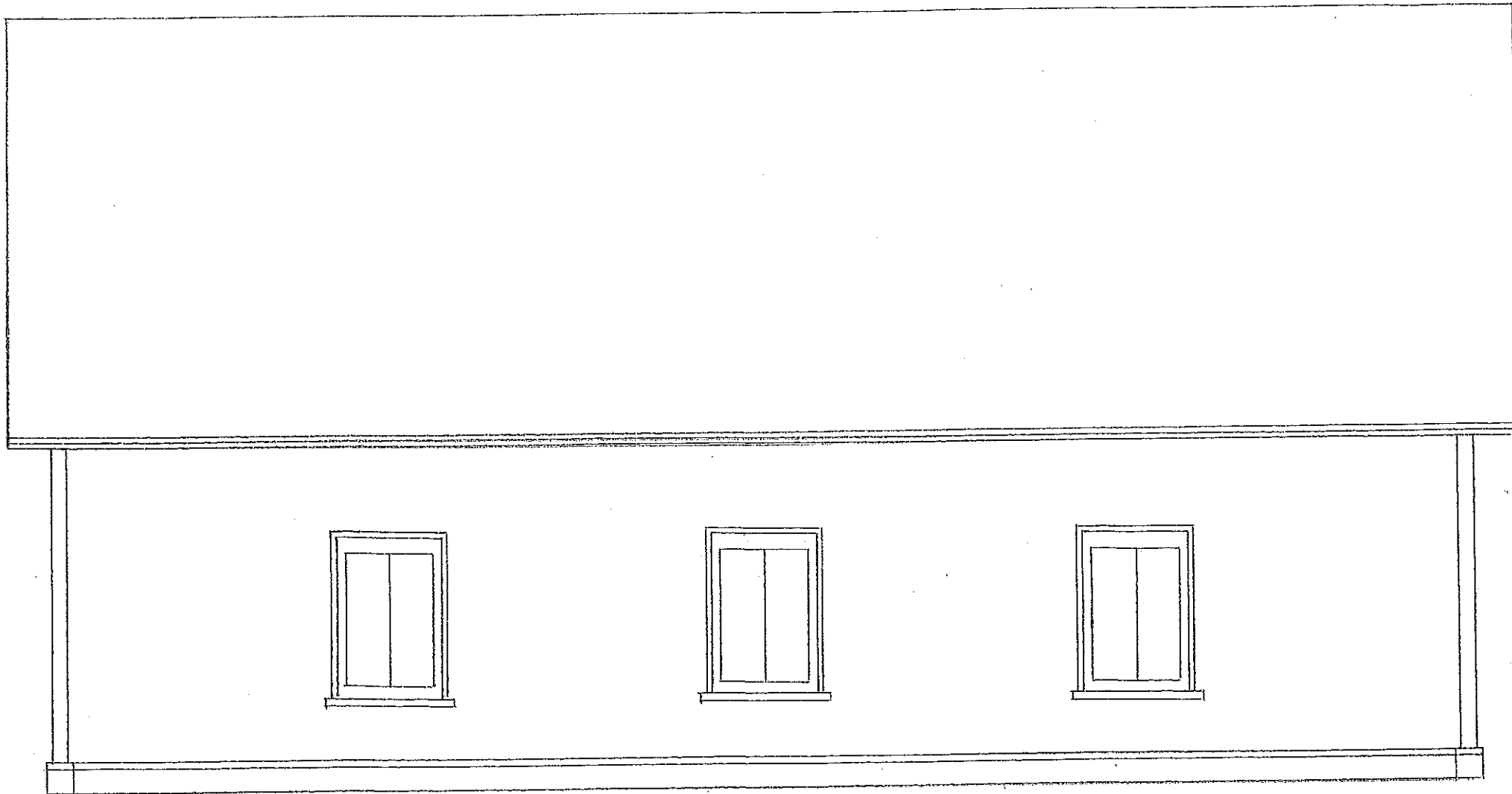
EAST ELEVATION
SCALE: 1/4" = 1'-0"

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PLAN

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WEST