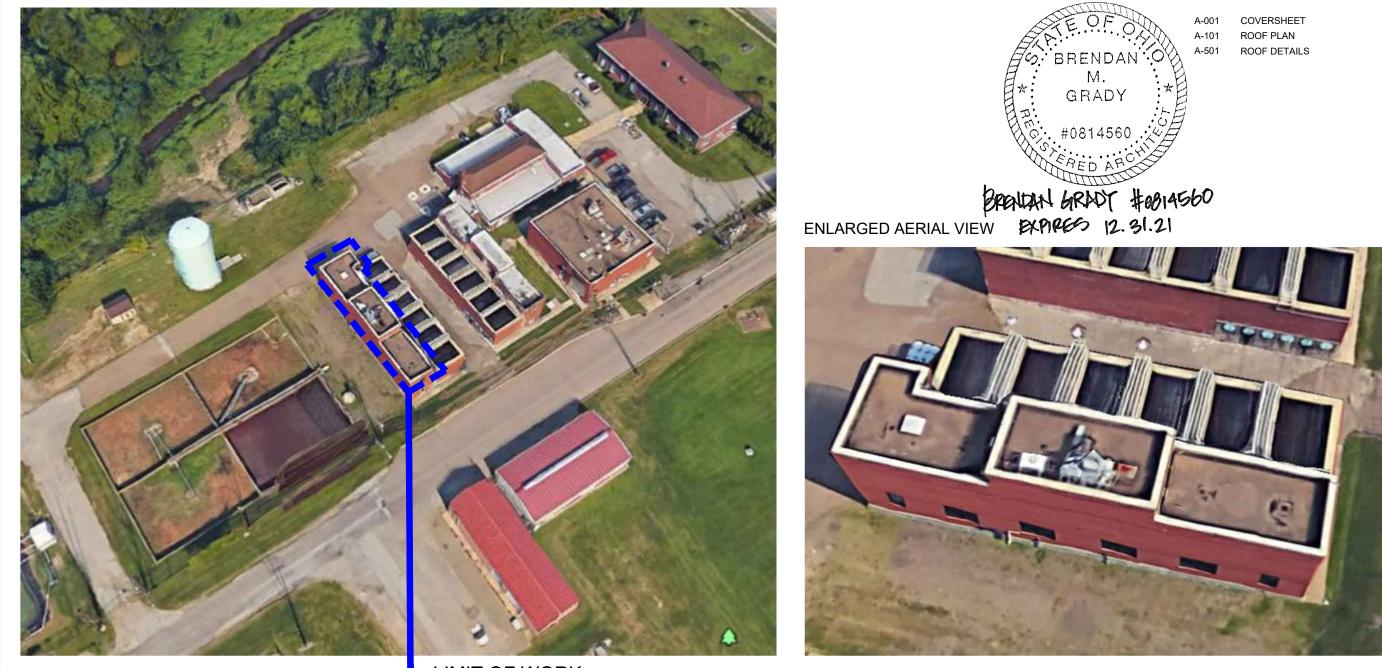
CITY of CUYAHOGA FALLS

WATER PLANT ROOF

2028 Munroe Falls Avenue, Cuyahoga Falls, OH 44221

PROJECT AERIAL VIEW



LIMIT OF WORK



DRAWING INDEX

CITY of **CUYAHOGA FALLS**

WATER PLANT ROOF

2028 Munroe Falls Avenue Cuyahoga Falls, OH 44221

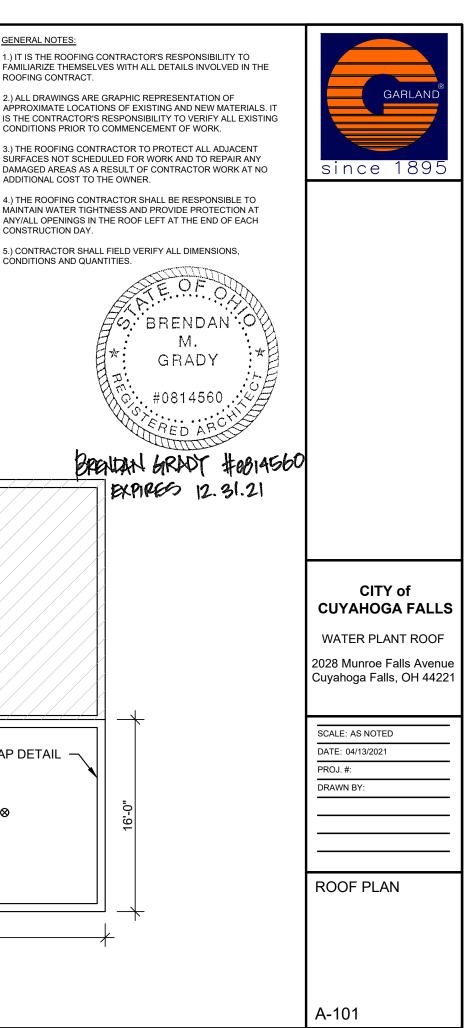
SCALE: AS NOTED

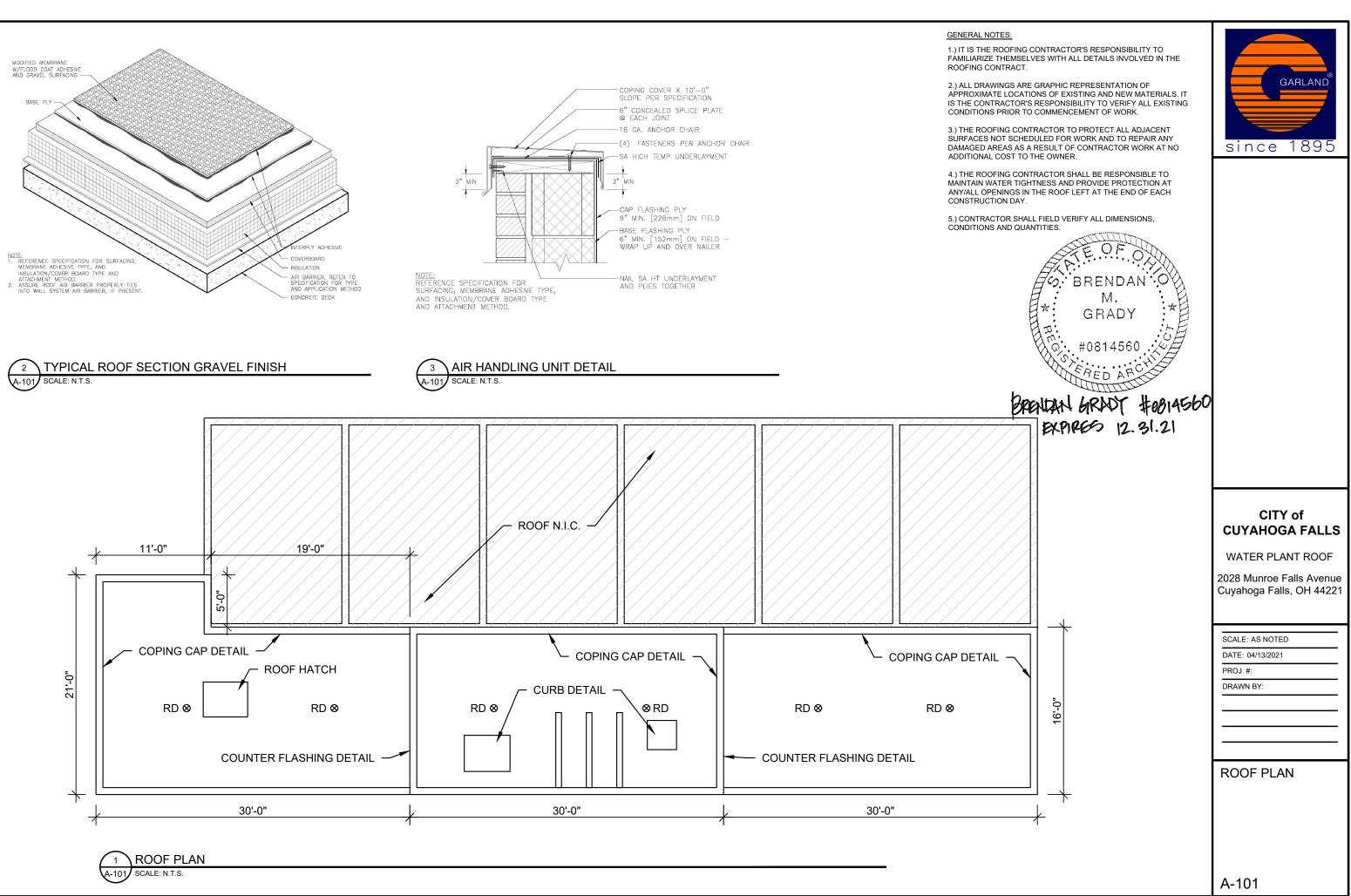
DATE: 04/13/2021 PROJ. #:

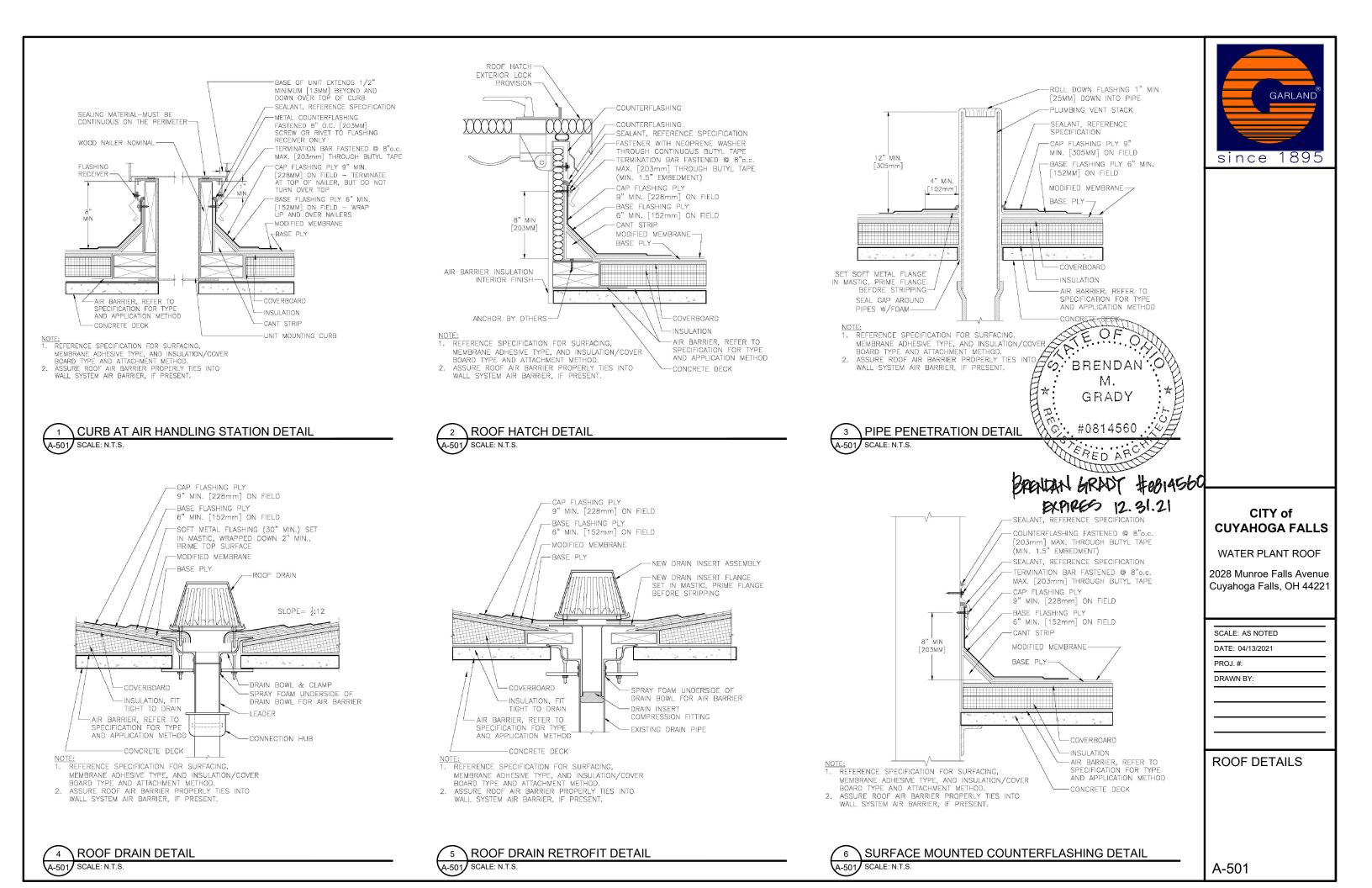
DRAWN BY:

COVERSHEET

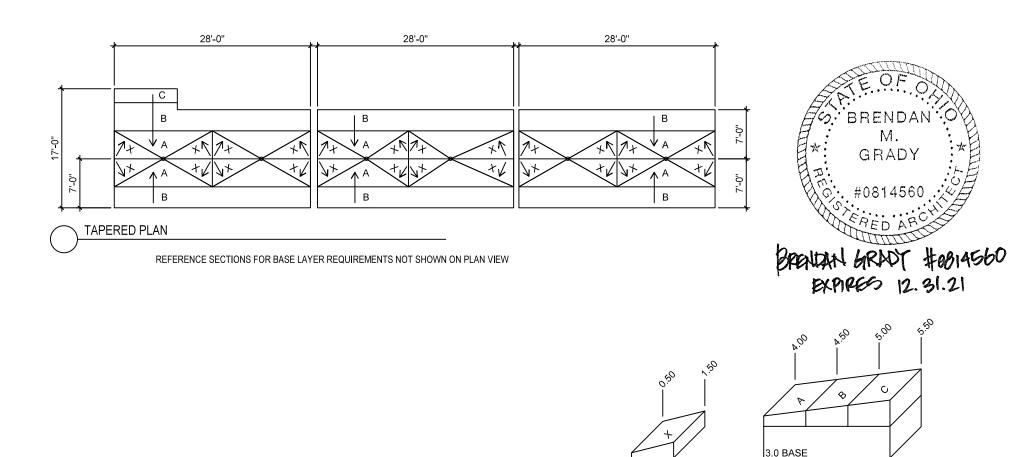
A-001

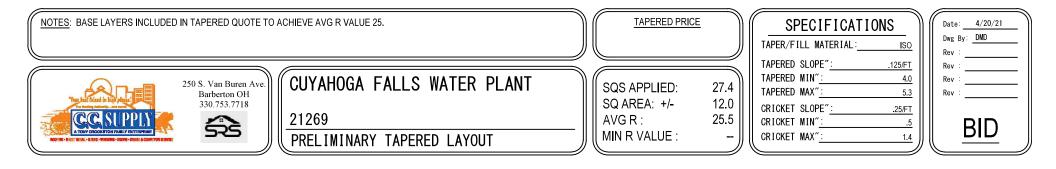






TAPERED QUOTE FOR MATERIAL PER SHOWN SRS DRAWING, APPROVAL REQUIRED ---ADD SUMPS AS NEEDED, NOT INCLUDED - DRAWING FOR BID ONLY, NOT FOR CONSTRUCTION







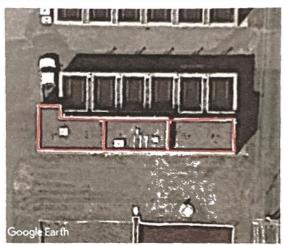
THE GARLAND COMPANY, INC.

HIGH PERFORMANCE ROOFING AND FLOORING SYSTEMS

Matthew McGonigal Akron, OH

Email: mmcgonigal@garlandind.com Cell: 440-552-5126

City of Cuyahoga Falls Water Plant



Scope of Work

Cold applied, 2-ply modified bitumen roof system with vapor barrier 30 year warranty

- 1.) Tear off all roofing down to the concrete roof deck.
- 2.) Repair / Replace decking at a predetermined per sq. ft. cost.
- 3.) Prime concrete deck as needed to prepare substrate for vapor barrier.
- 4.) Torch specified vapor barrier directly to the concrete deck.

5.) Adhere tapered insulation at 1 1/2" base layer with a 1/8" taper to match existing crickets. Making sure all joints

are staggered and butted up next to each other. 3/4 bead of insulation adhesive 12" O.C.

- 6.) Adhere 1/2" Dens deck again, making sure all joints are staggered and butted up next to each other...
- 7.) Install 4' sumped drains with a gravel guard. Coat the smooth membrane.
- 8.) Install the specified base and cap sheet in a cold adhesive.
- 9.) Install a 2 ply flashing system using the specified cold adhesive.
- 10.) All vertical seams are to be 3 coursed.
- 11.) Flood coat with cold applied coal tar adhesive at a rate of 5 gal per square and gravel at a rate of 400 lbs per

square.

- 12.) Coat all flashings and exposed membrane with aluminizer at the rate of 2 gallon per 100 sq ft.
- 13.) Install a new metal edge using Garland flat stock.
- 14.) Remove old units on roof where specified.
- 15.) Ensure positive drainage exists throughout.
- 16.) Add drain inserts with metal drain baskets.

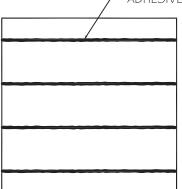
Contractor responsible to verify all measurements and core cuts.

Please Note: Under no circumstances will the gravel be installed with a gravel cart.

GARLANDThe Garland Company, Inc.Low Slope Roofing Wind Uplift Calculations 3800 East 91st Street Cleveland, Ohio 44105-2197 Phone: (800) 321-9336 Fax (216) 883-2046						
Project Water Plant Roof						
Roof Pump Station				ation		
Sales Rep. Matt McGonigal Zone 1 psf 15.5	Zone 2 psf	26.1	LOC	allON	Cuyahoga Falls, OH Zone 3 psf 39.3	
(mid roof)	(eaves, ridge, h		-		(corners)	
Edge Zone Width "a" <u>3</u> Fastener Safety Factor Importance Importance Factor Wind Speed	ft. <u>3.00</u> <u>IV</u> <u>1</u> <u>120</u>	0	in.		$\begin{array}{c} \alpha \\ \hline \alpha \\ \hline 3 \\ \hline 2 \\ \hline 1 \\ \hline 1 \\ \hline 2 \\ \hline 1 \\ \hline 3 \\ \hline 2 \\ \hline 1 \\ \hline 1 \\ \hline 3 \\ \hline 2 \\ \hline 2 \\ \hline 1 \\ \hline 1 \\ \hline 3 \\ \hline 2 \\ \hline 2 \\ \hline 1 \\ \hline 1 \\ \hline 3 \\ \hline 2 \\ \hline 2 \\ \hline 1 \\ \hline 3 \\ \hline 2 \\ \hline 2 \\ \hline 3 \\ \hline 2 \\ \hline 2 \\ \hline 3 \\ \hline 3 \\ \hline 2 \\ \hline 2 \\ \hline 3 \\ \hline 3 \\ \hline 2 \\ \hline 2 \\ \hline 3 \\ \hline 3 \\ \hline 3 \\ \hline 2 \\ \hline 3 \\ \hline 3 \\ \hline 3 \\ \hline 3 \\ \hline 2 \\ \hline 3 \\ \hline$	
Design Methodology Exposure Category Design Roof Minimum Building Width Roof Pitch (X, Y) 0.13 :	ASCE 7-10 B 20.00 16.00 12				Gable angle <= 10° 02	

	PRO	JECT Water	Plant Ro	oof			
GARLAND®	ROOF SEC	TION Pump	Pump Station				
		DATE 4/12/	/2021				
	BASIC VELOCITY PRES	SURE 21	.95 p	sf			
since 1895	DESIGN (CODE ASCE	•				
311100 1095							
	Building & Site Data						
				BASIC WIN		120	mph
			EXF	POSURE C	ATEGORY	В	·
			TOF	POGRAPHY		1.00	
BUILDING TYPE							osed
ROOF PITCH (X, Y)							12
RUN TO RIDGE							
							ft
DESIGN ROOF HEIGHT IMPORTANCE CLASS / FACTOR							1
	MIN. BLDG WIDTH						ft
		WI	ND-BOR	16 N	lo		
PARAPET						No	
ROOF ANGLE						0.62	deg
PROTECTED OPENINGS							
ROOF TYPE							ble
	ZONE 1 ZO	NE 2 ZOM	NE 3	ZONE 4	ZONE 5		
ROOF PRESSUR		26.1	39.3	15.4	19.0		
OVERHANG PRESSUR		22.39	36.88	10.4	10.0		
EDGE ZONE WIDT							
	L I						

TYPICAL ZONE 1, 2 AND 3 INSULATION BOARD ADHESIVE PATTERN: 12" OC BEADS PER BOARD



- ADHESIVE RIBBON ENLARGED FOR CLARITY

4 ADHESIVE RIBBONS EQUALLY SPACED AT I 2" (30.5cm) O.C. (TYP.)

GARLAND [®] since 1895	THE GARLAND COMPANY, INC. GARLAND CANADA, INC.	DETAIL:	4 X 4 BOARD PATTERN				
	THE GARLAND COMPANY UK, LTD	SECTION:	INSULATION BOARD ADHESIVE PATTERN				
REV: 3 28/07							