

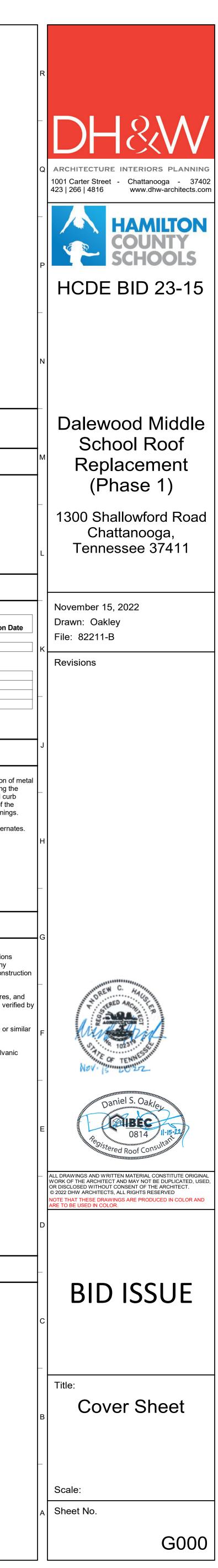
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Dalewood Middle School Roof Replacement (Phase 1) 1300 Shallowford Road Chattanooga, Tennessee 37411

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GENERAL ROOF REPLACEMENT NOTES	Sheet Number Sheet Name Current Revision General G000 Cover Sheet				
 Contractor shall field verify all dimensions, elevations, and locations of existing conditions affecting this project, prior to fabrication or installation of new work. Notify architect of any discrepancies from dimensions shown, noted, or required. Adjust dimensions of new construction at direction of architect to allow for actual field conditions. Where a detail is shown or note is described for one condition, it shall apply for all like or similar conditions even though not specifically noted on the drawings. Provide continuous separation between dissimilar materials as required to prevent galvanic corrosion. 					
4. Extend duct work as required for connection of roof top equipment scheduled to be removed and reinstalled on new taller curbs. Duct extensions to match size & materials of existing. Field verify ducts sizes and locations requiring modifications.					
 5. Extend wiring as required for connection of roof top equipment scheduled to be removed and reinstalled on new taller curbs. Electrical extension wiring to match sizes and materials of existing (unless prescribed as otherwise by applicable codes). Provide code compliant junction boxes at all electrical connections. Field verify existing wiring configurations and locations requiring modifications. 6. Extend plumbing vents pipes (VTR's) as required to maintain 8" min. above the adjacent finished roof surface. Extension pipes shall be of schedule 80 PVC with same diameter as existing pipe. Pipe connections shall be watertight & consist of no hub couplings (neoprene with stainless steel clamp rings & rigid stainless steel shield). Existing pipes shall be modified so that new connections occur below the pipe boot. Field verify pipe sizes and locations requiring modifications. 7. Provide new galvanized cast iron roof drain baskets at each existing roof drain. Field coordinate compatible manufacturers, configurations, and sizes required. 8. Existing roof drains and compression rings are to be cleaned per SSPC-SP2 - Hand Tool Cleaning. After cleaning apply one coat oil/alkyd enamel primer & two coats oil/alkyd enamel paint. 9. Protect VTR from demo & roof replacement debris by securing 1/4" mesh x 23 gauge hardware cloth across top of plumbing vent pipes. Remove hardware cloth at Substantial Completion. 10. Existing roof top equipment is to be removed and reinstalled on new equipment curbs as specified. Reconnect & recommission units once reinstalled. 11. All edge metal to be ANSI-SPRI ES-1 tested and approved. 12. All roof copings to be ANSI-SPRI ES-1 tested and approved with factory mitered, welded, & finished corners. 					
 13. All wood blocking to be kiln dried after preservative treatment (KDAT) installed to meet 200 lbs. per linear foot applied in any direction per FM1-49 and ANSI-SPRI ES-1. 14. Where work or access to work areas occur over new and existing roofing, provide minimum roof protection consisting of loose laid 5/8" plywood sheathing over loose laid 3/4" XPS insulation boards over 6 mil polyethylene 15. Replace all liquid-tight flexible metal conduit (LFMC) with new LFMC and weathertight j-box assemblies. Provide drip loop so that LFMC slopes down & away from connection points. 					
GAS PIPING REPLACEMENT NOTES	GENERAL NOTES				
 A. Mechanical equipment is shown for reference only. Refer to field conditions for exact locations. B. Coordinate pipe routing with existing equipment and confirm all pipe sizes prior to purchase/fabrication. C. All existing fixtures/equipment not being removed under this contract shall remain in operation. D. Coordinate utility interruptions with owner a minimum of 72 hours before interruption. E. Gas piping sized for 2 PSI delivered gas pressure with a pressure drop of 1.0 PSIG, 0.6 specific gravity and other fittings if required to match equipment to delivered gas pressure. Every regulator installed inside the building shall be equipped with leak-limiting devices. Prior to installation, contractor shall determine the delivered pressure at the site and compare with the design pressure of the proposed system. Advise designer if resizing of pipes is necessary. Provide regulators if required. F. Provide gas cock, drip leg, regulator, and dielectric union at each unit where pipe is being replaced. See detail. G. Gas service connection locations shown are based on the best available information. Contractor shall determine the delivered pressure at the site and compare with the design pressure of the proposed system. Advise designer if resizing of pipes is necessary. Provide regulators if required. F. Provide gas cock, drip leg, regulator, and dielectric union at each unit where pipe is being replaced. See detail. G. Gas service connection locations shown are based on the best available information. Contractor shall confirm the gas piping installed in concealed locations shall not have unions, tubing fittings, right and left couplings, bushings, compression couplings and swing joints made by combinations of fittings or otherwise the fuel gas piping installed on to essert and the service want on the sphere. Venting of the sleeve shall be accomplished to prevent the entrance of water, vermin, and insects. J. Gas piping to be cle	 Contractor shall field verify all dimensions, elevations, and locations of existing condition affecting this project, prior to fabrication or installation of new work. Notify architect of any discrepancies from dimensions shown, noted, or required. Adjust dimensions of new corrat direction of architect to allow for actual field conditions. Drawings are based on Owner provided record drawings from 1962, selective roof core casual field observations. Actual quantities and dimensions may vary and are to be field to the Contractor prior to bid submisson. Where a detail is shown or note is described for one condition, it shall apply for all like of conditions even though not specifically noted on the drawings. Provide continuous separation between dissimilar materials as required to prevent galve corrosion. Note: Detailing shown within these documents is specific to 20 Year Warranty. Additive Alternates include 30 year warranty. Contractor to submit Roof Manufacturer's detailing for 30 year Warranty if Alternates are Accepted by Owner. 				
	CODE SUMMARY Code Analysis Applicable Codes: 2012 International Building Code 2012 International Plumbing Code 2012 International Fuel Code 2012 International Fire Code 2019 International Fire Code 2009 International Energy Conservation Code 2009 ANSI (National Standard) Accessibility Code Climate Zone 4A Occupancy Type: Occupancy Group E				



0" 	1" 2"	3"			6"					
Γ	1 Existing Roof Co	2 re Schedule		3		4	Roof Pla	5 <u>n Legend</u>	6	
R	<u>RC-1:</u> Modified Bitumen 1" Perlite	<u>RC-8</u> Modi 1" Pe	fied Bitumen			A		sting roof transtion detail outs (see sheet A300		
		2 1/2" Wood Fiber Board1/4"Vapor Barrier2 1/2				Existing roof core callout				
_	<u>RC-2:</u> Modified Bitumen	" Metal Deck (No Slope) <u>RC-9:</u>			4'x4' target sump (1:12 slope) coat sump area with liq flashing membrane system, typical (Liquid-applied fla					
	1" Perlite 2" Expanded Polystyrene Vapor Barrier 2 1/2" Lightweight Concr	e 1" Pe 2 1/2	Modified Bitumen 1" Perlite 2 1/2" Expanded Polystyrene 2 1/2" Wood Fiber Board			system is not required for roof drains at Roof Areas G Roof drain (See detail H18/A300)				
Q	Q Metal Deck (No Slope) Vapor 6" Me			/apor Barrier 5" Metal Deck (No Slope)		New 3/4" gas piping to replace existing (See detail L13				
	Modified BitumenRC-1" PerliteMod2" Expanded Polystyrene2 1/2			<u>RC-10:</u> Modified Bitumen 2 1/2" Perlite 1/4" EPS		GP Vertical transition Roof penetration (See detail E18/A300)				
_	Vapor Barrier 2 1/2" Lightweight Concr Metal Deck (No Slope)	1/2" Lightweight Concrete (No Slope) 1 3/4 etal Deck (No Slope) Vapo			1/4" EPS 3/4" Perlite apor Barrier ' Metal Deck (No Slope)		4"VTR e-Plumbing vent pipe penertration (See detail A18/A300			
	RC-4:Modified BitumenRC-11:1 1/2" PerliteModified Bitu			. ,			Cur	b mounted mechanical e	equipment to remain (See	
P	Vapor Barrier1" Perlite2 1/2" Lightweight Concrete (No Slope)2" Expanded PolystyreneMetal Deck (No Slope)2" Wood Fiber BoardVapor BarrierVapor Barrier				EF-1 Top Equipment Schedule for callouts & requirements) detail H13/A300)					
_				tal Deck (No Slope)		GV-1 GV-1 GV-1 Abandoned curb mounted mechanical equipment & ro curb to be removed (See detail A13/A300 for deck rep				
	2" Expanded PolystyreneModifi2 " Wood Fiber Board1" PelVapor Barrier4" Exp			Modified Bitumen I" Perlite I" Expanded Polystyrene		Slope of new roof assembly				
N	6" Metal Deck (No Slope) Vapor Barrier 6" Metal Deck (No Slope) <u>RC-6:</u> Modified Bitumen <u>RC-13:</u>				Extent of PVC roof system (See Roof Area G & F3)					
	2" Perlite Vapor Barrier 6" Metal Deck (No Slope	Modi 3/4" 2 1/2	ified Bitumen Wood Fiber Board 2" Lightweight Concrete			14"L x 10"W x10"H Conductor head with 5x5 downspo (See SMACNA Figure 1-25F) Metal splash pan adhered to walkway pad (See SMAC				
_	<u>RC-7:</u> Modified Bitumen 2" Perlite	1 1/2	" Metal Deck	с (1:12 Slope	3)	_	(Dir ∕∕∠		n and adhere walkway pad	
	2" Expanded Polystyrene 2 1/2" Wood Fiber Board Vapor Barrier	l					7" g	•	o.c. & brackets at 36" o.c. o	
М	6" Metal Deck (No Slope)				DS EJ	Gut	ter expansion joint (See	SMACNA Figure 1-7)	
-							5"x!	5" Downspout (See SM/	CNA Figure 1-32B)	
			Existing		(Field Verify)	IPMENT SCHEDUL	Existing	New Curb Height		
L	Callou	t Description	Length (inches)	Width (inches)	Height (inche above existin roof surface)	^s Curb to be ^g Demolished	Equipment to be Installed on New Curb	(inches above roof deck)	Typical Roof Detail	
	GV-1 GV-2	Gravity Vent Gravity Vent	30 30	30 30	8 8	X X X		NA NA	A13/A300 A13/A300	
_	GV-3 GV-4 GV-5	Gravity Vent Gravity Vent Gravity Vent	30 30 30	30 30 30	8 8 8	X X X		NA NA NA	A13/A300 A13/A300 A13/A300	
	GV-5 GV-6 GV-7	Gravity Vent Gravity Vent Gravity Vent	30 30 30	30 30 30	8	× × ×		NA NA NA	A13/A300 A13/A300 A13/A300	
К	GV-8 GV-9 GV-10	Gravity Vent Gravity Vent	30 30 30	30 30 30	8	X X		NA NA	A13/A300 A13/A300	
_	GV-10 GV-11 GV-12	Gravity Vent Gravity Vent Gravity Vent	30 30 30	30 30 30	8 8 8	X X X		NA NA NA	A13/A300 A13/A300 A13/A300	
	GV-13 GV-14	Gravity Vent Gravity Vent	30 30	30 30	8	X X		NA NA	A13/A300 A13/A300	
J	GV-15 GV-16 GV-17	Gravity Vent Gravity Vent Gravity Vent	30 30 30	30 30 30	8 8 8	X X X		NA NA NA	A13/A300 A13/A300 A13/A300	
	EF-1 EF-2	Exhaust Fan Exhaust Fan	18 18	18 18	8 10		X X	19 19	H13/A300 H13/A300	
_	EF-3 EF-4 EF-5	Exhaust Fan Exhaust Fan Exhaust Fan	18 18 18	18 18 18	8 8 8		X X X	19 19 19	H13/A300 H13/A300 H13/A300	
	EF-6 EF-7	Exhaust Fan Exhaust Fan	14 24	14 24	8	X	X	19 NA	H13/A300 A13/A300	
н	EF-8 EF-9 C-1	Exhaust Fan Exhaust Fan Roof Curb	30 30 28	30 30 28	6 4 8	X	X X	19 19 NA	H13/A300 H13/A300 A13/A300	
	C-2 C-3	Roof Curb Roof Curb	28 28 28	28 28 28	8	X X X		NA NA NA	A13/A300 A13/A300 A13/A300	
	C-4 C-5 KMA-1	Roof Curb Roof Curb Kitchen Make-up Air	14 14 32	46 42 81	8 8 8	X X	X	NA NA 19	A13/A300 A13/A300 H13/A300	
G	KEH-1 ER-1	Kitchen Exhaust Hood Equipment Rail	27 34	27 48	7 NA	X	X	19 19 NA	H13/A300 H13/A300 A7/100	
	SAT-1 PP-1	Satellite Pitch Pocket Condenser Unit	36 8	72 8	NA 8	X	X	NA NA	A7/100 E18/A300	
+	CU-1		25	25	10		X	19	N18/A300	
F	Roof Assembly at Roof Areas A, B, C, & D	Modified	Bitumen Cap Bitumen Bas Polyisocyanu	se Sheet (To	orch-Applied)					
		Low Rise	Polyurethar	ne Adhesive		Roof Assembly]	Modified	l Bitumen Cap Sheet (Toro	
_			Polyurethar			at Roof Areas F1, F2, & F4		1/2" HD	Bitumen Base Sheet (Tor Polyisocyanurate Cover B	
			Polyurethar us Vented B	ne Adhesive				2" Polyis	e Polyurethane Adhesive socyanurate Insulation Boa	
E	Note: Provide KDAT wood	Mechanic	cal Fasteners	s as per Upl	ift			2" Polyis	e Polyurethane Adhesive socyanurate Insulation Boa	
	nailers at ridges of Roof Areas A, B, C & D as per Roof System Manufacturer's		 Existing Lightweight Concrete (Sloped) Existing Metal Deck (Sloped) 				Low Rise Polyurethane Adhesive Tapered Polyisocyanurate Insulatio (1:48 Minimum Slope)			
_	requirements for roof slopes exceeding 1:24.							Low Ris	e Polyurethane Adhesive ous Vented Base Sheet	
D	Roof Assembly	KEE/PV0	C Membrane					Require	ical Fasteners as per Uplif ments of ASCE 7-16	
	at Roof Area G	1/2" Fibe	-	d High-Dens	ity Gypsum Cov	ver Board			Lightweight Concrete (Lev Metal Deck (Level)	
_		2.2" Poly	Polyurethar isocyanurate	Insulation E	Board					
		2.2" Poly	Polyurethar	Insulation E	Board	Roof Assembly at Roof Area F3]		C Membrane	
с	Low Rise Polyurethane Adhesive Continuous Vapor Barrier (Self-Adhered)					1/2" Fiberglass-Faced High-Densit				
	Vapor Barrier Primer Existing Structural Concrete Deck (Sloped)				(Sloped)	Low Rise Polyurethane Adhesive				
_								2" Polyis	e Polyurethane Adhesive socyanurate Insulation Boa	
	Roof Assembly at Roof Areas H1 & H2	Modified		se Sheet (To	orch-Applied)		+++	Tapered	e Polyurethane Adhesive Polyisocyanurate Insulati n Slope & 1/2" Minimum T	
В	H1 & H2 1/2" HD Polyisocyanurate Cover Board Low Rise Polyurethane Adhesive					Low Rise Polyurethane Adhesive Continuous Vented Base Sheet				
_			ocyanurate li Polyurethar					Require	ical Fasteners as per Upli ments of ASCE 7-16	
	2" Polyisocyanurate Insulation Board Tapered Polyisocyanurate Insulation Board					Existing Lightweight Concrete (Le Existing Metal Deck (Level)				
		(1:48 Mir	imum Slope)						

1

-Tapered Polyisocyanurate Insulation Board (1:48 Minimum Slope) -Continuous Vapor Barrier -Mechanical Fasteners as per Uplift Requirements of ASCE 7-16 -Existing Metal Deck (Level)

3

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A7

4

A100 1 1/2" = 1'-0"

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h liquid-applied d flashing membrane as G & F3)

L13/A300)

.300)

See Roof nts)(See

& roof repair)

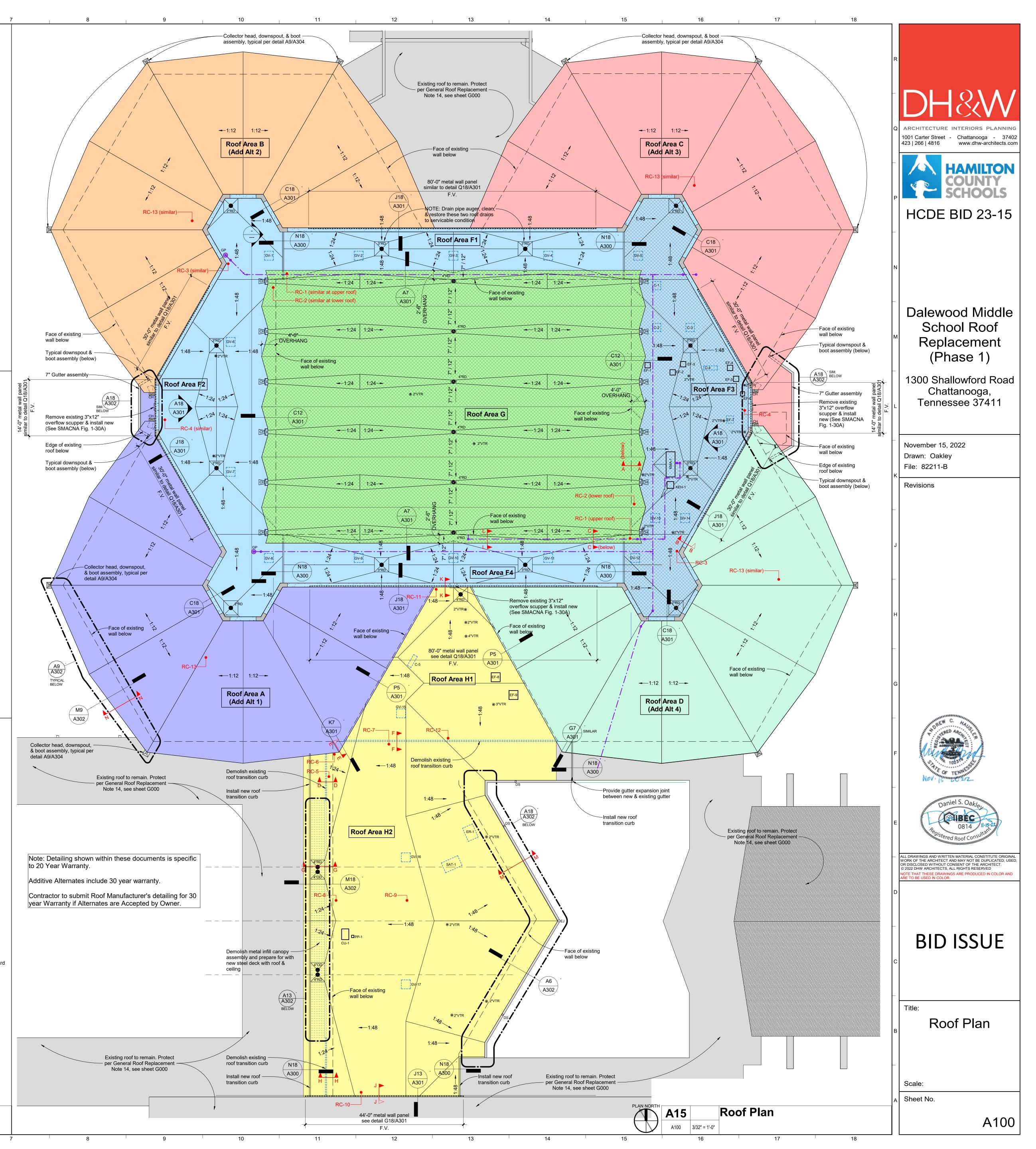
nspout

MACNA Figure 1-36) / pad to roof.

centered

orch-Applied) Torch-Applied) r Board Board ive ulation Board Level) ensity Gypsum Cover Board Board ive Board sive ulation Board (1:48 n Thickness) ive

Uplift Level)



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