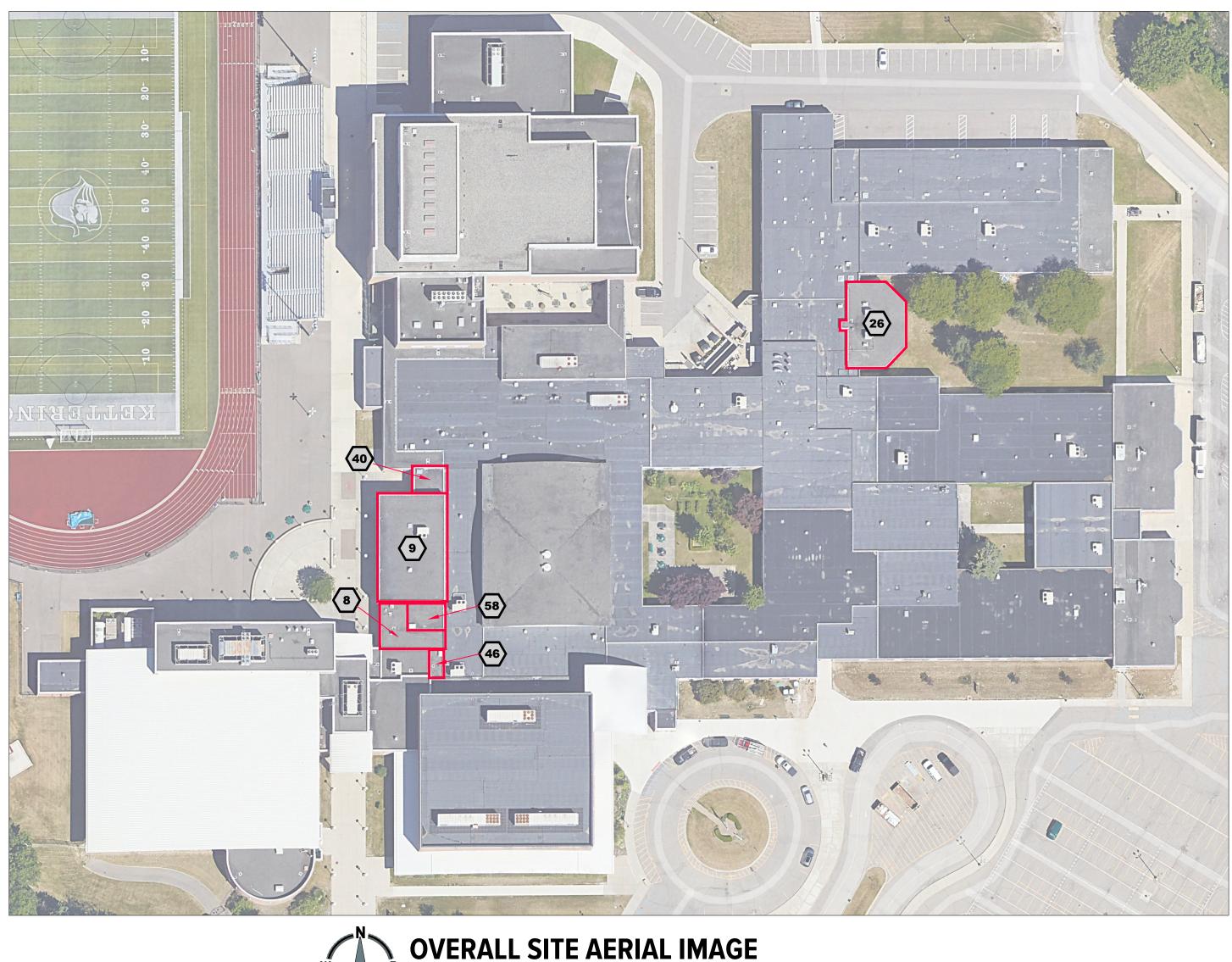
2023 Waterford School District Kettering High School Roofing Replacement 2800 Kettering Drive Waterford Twp., Michigan 48329



NOT TO SCALE







GENERAL NOTES

- THE BUILDING WILL REMAIN PARTIALLY OCCUPIED WITH THE OWNER'S SCHEDULED SUMMER MAINTENANCE, CONSTRUCTION AND ACADEMIC/ATHLETIC ACTIVITIES DURING THE COURSE OF THIS PROJECT. CLOSELY COORDINATE WORK WITH THE OWNER'S REPRESENTATIVE AND OTHER ACTIVITIES THAT MAY BE OCCURRING AT THE SITE
- WHERE NOT INDICATED ON THE PROJECT DRAWINGS OR DESCRIBED IN THE SUMMARY OF WORK, PROVIDE THE MANUFACTURER'S STANDARD DETAILS. PROVIDE SPECIFIED CONTRACTOR'S SHOP DRAWINGS AND SPECIAL DETAILING REQUIREMENTS WITH THE PROJECT SUBMITTALS.
- PROVIDE NECESSARY TEMPORARY FENCING, BARRICADES, OR STRUCTURES AND OTHER SUCH MEASURES AS NEEDED TO PROTECT PEDESTRIAN AND VEHICLE TRAFFIC ADJACENT TO THE WORK AREA.
- PROVIDE TEMPORARY PROTECTION FOR EXTERIOR WALLS AND WINDOWS, ENTRANCES, LANDSCAPING AND PAVEMENTS. RESTORE DAMAGES CAUSED BY ROOFING OPERATIONS TO PRE-PROJECT CONDITIONS AT NO ADDITIONAL COST TO THE OWNER
- IN ADDITION TO ITEM 4 ABOVE, PROVIDE TEMPORARY PROTECTION FOR ROOFING THAT WILL BE TRAFFICKED OVER, OR USED FOR STAGING PURPOSES, INCLUDING BOTH NEW AND OLD ROOF AREAS, TO REDUCE THE POTENTIAL FOR LEAKAGE. SECTIONS ADJACENT TO THE WORK AREAS NOT INCLUDED IN THIS PROJECT ARE TO BE PROTECTED DURING THE FLASHING TIE-INS. THE CONTRACTOR WILL BE HELD RESPONSIBLE TO REPAIR SECTIONS DAMAGED DURING THIS PROJECT.
- PROVIDE TEMPORARY ROOFING, TIE-INS, WATER BLOCKS, AND INTERIOR PROTECTION DURING THE ROOFING REPLACEMENT TO PREVENT LEAKAGE INTO THE BUILDING, AND WATER DAMAGE TO INTERIOR FURNISHINGS, FINISHES, STORED MATERIALS AND EQUIPMENT
- 7. SPREAD OUT STORED MATERIALS ON THE ROOF SO AS NOT TO OVERLOAD THE ROOF DECKS.
- 8. STORE MATERIALS OFF THE GROUND ON PALLETS, AND COVERED WITH OPAQUE, BREATHABLE WATERPROOF TARPAULINS TO PROTECT FROM UV EXPOSURE AND WET WEATHER.
- 9. STORE CONTAINERS OF MATERIALS SENSITIVE TO HIGH TEMPERATURES IN THE SHADE, OR IN CLIMATE CONTROLLED LOCATIONS.
- 10. STORAGE OF MATERIALS INSIDE THE BUILDING IS PROHIBITED UNLESS WRITTEN AUTHORIZATION IS RECEIVED FROM THE OWNER'S REPRESENTATIVE. NO STORAGE OF FLAMMABLE MATERIALS ON OR WITHIN THE BUILDING IS PERMITTED. HOIST FLAMMABLES TO THE GROUND AND EITHER SECURELY STORE OR REMOVE FROM THE SITE AT THE END OF EACH WORK DAY. STORE FLAMMABLE FLUIDS A MINIMUM 50 FEET AWAY FROM THE BUILDING WHEN NOT IN USE.
- 11. REMOVE DEBRIS FROM THE ROOF AND GROUNDS DAILY AND DISPOSE IN A PROPER MANNER.
- 12. PROMPTLY REPORT UNANTICIPATED CONDITIONS UNCOVERED DURING ROOFING REMOVAL AND REPLACEMENT THAT ARE CONTRARY TO THE PROJECT DOCUMENTS, OR WILL NEGATIVELY IMPACT THE NEW ROOFING SYSTEM, TO THE ENGINEER AND OWNER'S REPRESENTATIVE FOR REVIEW.
- 13. VERIFY DIMENSIONS AND FIELD CONDITIONS BEFORE ORDERING MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND VERIFYING WORK ITEMS REQUIRED FOR A COMPLETE WORK PRODUCT. THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE UNDERSIDE OF THE ROOF DECK FOR CONDUITS OF OTHER UTILITIES THAT MAY BE DAMAGED FROM THE ROOFING PROJECT.
- 14. INSTALL NEW ROOFING IN COMPLIANCE WITH THE REQUIREMENTS AND RECOMMENDATIONS OF THE LATEST REVISED EDITION OF THE NRCA ROOFING AND WATERPROOFING MANUAL, AND THE ROOFING MANUFACTURER.
- 15. PROVIDE SHEET METAL COMPONENTS THAT COMPLY WITH THE LATEST EDITION OF THE SMACNA ARCHITECTURAL SHEET METAL MANUAL. COPINGS AND PERIMETER EDGE FLASHINGS TO BE TESTED AND INSTALLED ANSI-SPRI ES-1 ASSEMBLIES.
- 16. SUBMIT THE SPECIFIC ROOFING MANUFACTURER'S PRODUCT DATA SHEETS, INSTALLATION GUIDELINES AND CONSTRUCTION DETAILS, AND THE SHEET METAL MANUFACTURER'S PRODUCT DATA SHEETS AND INSTALLATION INSTRUCTIONS TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING ANY MATERIALS.
- 17. PROVIDE LICENSED ELECTRICAL, PLUMBING, OR HVAC SUBCONTRACTORS TO DISCONNECT AND RECONNECT MECHANICAL UNITS, ADJUST OR RELOCATE UTILITIES, RAISE CURBS, ABANDON DESIGNATED CURBS, RAISE DUCTWORK, INSTALL NEW DRAINS OR SCUPPER COMPONENTS, AND ABANDON DESIGNATED DRAINS AND PIPING. IN-PLACE SYSTEMS SHALL ACCOMMODATE NEW INSULATION THICKNESSES AND MEET WARRANTY REQUIREMENTS FOR FLASH HEIGHT BY ROOFING MANUFACTURER. ALL MECHANICAL UNITS AND UTILITIES MUST BE OPERATIONAL AND DRAINS FREE FLOWING AT THE COMPLETION OF THE PROJECT. THIS INCLUDES CONDUITS DAMAGED BY SCREWS OR OTHER ITEMS THAT MAY DAMAGE UTILITIES. WORK TO BE COMPLETED IN ACCORDANCE WITH LOCAL CODES AND JURISDICTION(S) OF AUTHORITY. DO NOT SHUT OFF OR INHIBIT UTILITY SERVICES WITHOUT NOTIFYING OWNER'S REPRESENTATIVE IN ADVANCE.
- 18. EXISTING DRAINS ARE TO BE REPLACED DOWN TO THE FIRST CONTINUOUS SECTION OF VERTICAL OR HORIZONTAL PIPING BENEATH THE DECK FOR ALL STANDARD DRAIN AND OVERFLOW DRAINS THAT ARE TO BE REMOVED AND REPLACED.
- 19. NEW DRAIN LOCATIONS SHALL BE CONNECTED TO NEAREST ROOF STORM WATER PLUMBING SYSTEM.

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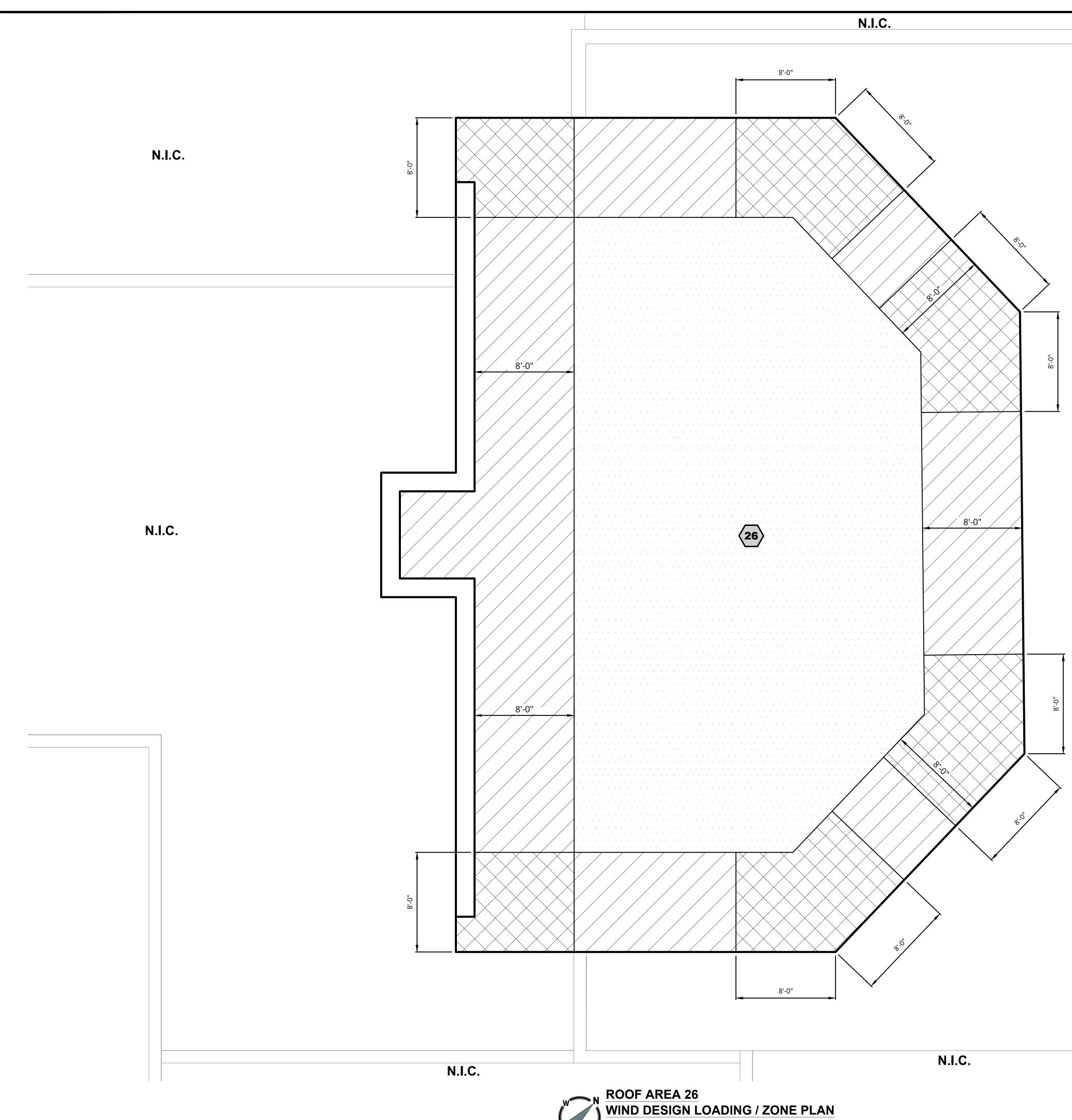
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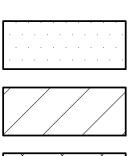
		Orientation Scale
LIST O	F DRAWINGS	Project 2023 WATERFORD SCHOOL DISTRICT KETTERING HIGH SCHOOL ROOFING REPLACEMENT
SHEET NO.	SHEET TITLE	
G0.0	COVER SHEET	Ducient Langting
G1.0	ROOF AREA 26 WIND DESIGN LOADING / ZONE PLAN	Project Location
G1.1 G1.2	ROOF AREAS 9 AND 40 WIND DESIGN LOADING / ZONE PLAN ROOF AREAS 8, 46, AND 58 WIND DESIGN LOADING / ZONE PLAN	2800 KETTERING DR.,
A1.0	ROOF AREAS 8, 48, AND 38 WIND DESIGN LOADING 7 ZONE PLAN ROOF PLAN AREA 26	WATERFORD TWP., MI 48329
A1.1	ROOF PLAN AREA 9 AND 40	
A1.2	ROOF PLAN AREAS 8, 46, AND 58	
A5.0 A5.1	FLASHING DETAILS FLASHING DETAILS	
A5.1		Sheet Name
		COVER SHEET
APPLICA 2015 MICH	A DAMEROW, EIT OWNER REPRESENTATIVE: MR. JOHN KEGLOVITZ WWW.WATERFORD.K12.MIUS BLE CODES IIGAN BUILDING CODE OF WORK	Seal
	ES PROVIDING LABOR, MATERIALS, EQUIPMENT, AND ADMINISTRATION NECESSARY TO	
20-YEAR WARF	NEW ADHERED, BLACK REINFORCED 60-MIL EPDM SINGLE-PLY ROOFING MEMBRANE, WITH A RANTY, INTO THE TOTAL BUILDING SYSTEM AS SHOWN ON THIS DRAWING SET.	Revisions
ROOF AREAS:	IS APPROXIMATELY 1,260 SQUARE FEET.	REV ISSUED FOR DATE BY FOR BID 3-9-23 KD
	IS APPROXIMATELY 4,505 SQUARE FEET.	
	5 IS APPROXIMATELY 2,770 SQUARE FEET.	
) IS APPROXIMATELY 495 SQUARE FEET. 5 IS APPROXIMATELY 200 SQUARE FEET.	
	3 IS APPROXIMATELY 640 SQUARE FEET.	
TOTAL ROOF A	AREA IS APPROXIMATELY 9,870 SQUARE FEET.	
THE STRUCTU	EXISTING AGGREGATE SURFACED BUILT-UP ROOF (BUR) MEMBRANE AND INSULATION TO EXPOSE RAL DECKS. DFING SUBSTRATES AND REPAIR OR REPLACE DETERIORATED ROOF DECK, PARAPET WALLS AND	
B. INSTALL SU	NEEDED BASED ON UNCOVERED CONDITIONS DURING SELECTIVE DEMOLITION. BSTRATE BOARD AS DESCRIBED IN 01 10 00 SUMMARY OF WORK AND 07 53 23	SME Project No. 090588.04
ETHYLENE-F	PROPYLENE-DIENE-MONOMER (EPDM) ROOFING. POR RETARDER TO SUBSTRATE BOARD AS DESCRIBED IN 01 10 00 SUMMARY OF WORK AND 07 26	Project Manager:
00 VAPOR F	ETARDERS.	KD
	LYISOCYANURATE INSULATION AS DESCRIBED IN 01 10 00 SUMMARY OF WORK AND 07 53 23 PROPYLENE-DIENE-MONOMER (EPDM) ROOFING. INSULATION SYSTEM TO MEET R-30.	Designer:
	VER BOARD AS DESCRIBED IN 01 10 00 SUMMARY OF WORK AND 07 53 23 PROPYLENE-DIENE-MONOMER (EPDM) ROOFING.	KD
	W METAL FLASHINGS AS SHOWN ON THE PROJECT DRAWINGS AND AS DESCRIBED IN 01 10 00 OF WORK AND 07 62 00 SHEET METAL FLASHING AND TRIM.	CADD: GUS
G. WHERE ME	CHANICAL UNITS ARE LIFTED TO ALLOW ROOF REPLACEMENT, REINSTALL FASTENERS WITH	Checked By:
INTEGRAL R	UBBER GASKETS ON ALL SIDES OF THE UNIT.	KD
		Reviewed By:
		LD
		Sheet No.
		G0.0
	ISSUED FOR BID	DRAWING NOTE: SCALE DEPICTED IS MEANT FOR 24" X 36" AND WILL SCALE INCORRECTLY IF PRINTED ON ANY OTHER SIZE MEDIA
		NO REPRODUCTION SHALL BE MADE WITHOUT THE PRIOR CONSENT OF SME



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2(D K	Project 2023 WATERFORD SCHOOL DISTRICT KETTERING HIGH SCHOOL ROOFING REPLACEMENT				
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Sheet Name ROOF AREA 26 WIND DESIGN LOADING / ZONE PLAN					
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Rev	visions ISSUED FO	DR	DATE	ВҮ	
	FOR BID		3-9-23	KD	
	E Project No.	090588.04	1		
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Sh	eet No.	G1.0			
		ING NOTE: SCALE DEPICTED IS ME L SCALE INCORRECTLY IF PRINTEI MEDIA			



ROOF AREA



ZONE 1

ZONE 3

ZONE 2

WIND DESIGN CRITERIA (MBC 2015)

KETTERING HIGH SCHOOL	
ULTIMATE DESIGN (FACTORED) BASIC WIND SPEED (3 SECOND GUST) =	120 MPH
NOMINAL WIND SPEED =	93 MPH
EXPOSURE CATEGORY =	С
RISK CLASSIFICATION =	
INTERNAL PRESSURE COEFFICIENT (ENCLOSED BUILDING) =	+/- 0.18

TABLE 1

SERVICE (UNFACTORED) DESIGN WIND LOADS - COMPONENTS AND CLADDING

ROOF SURFACE VERTICAL PRESSURE (PSF)	
ZONE 1	- 21
ZONE 2 AND TOP/SIDE OF PARAPET	- 36
ZONE 3 AND TOP/SIDE OF PARAPET	- 53

NOTE:

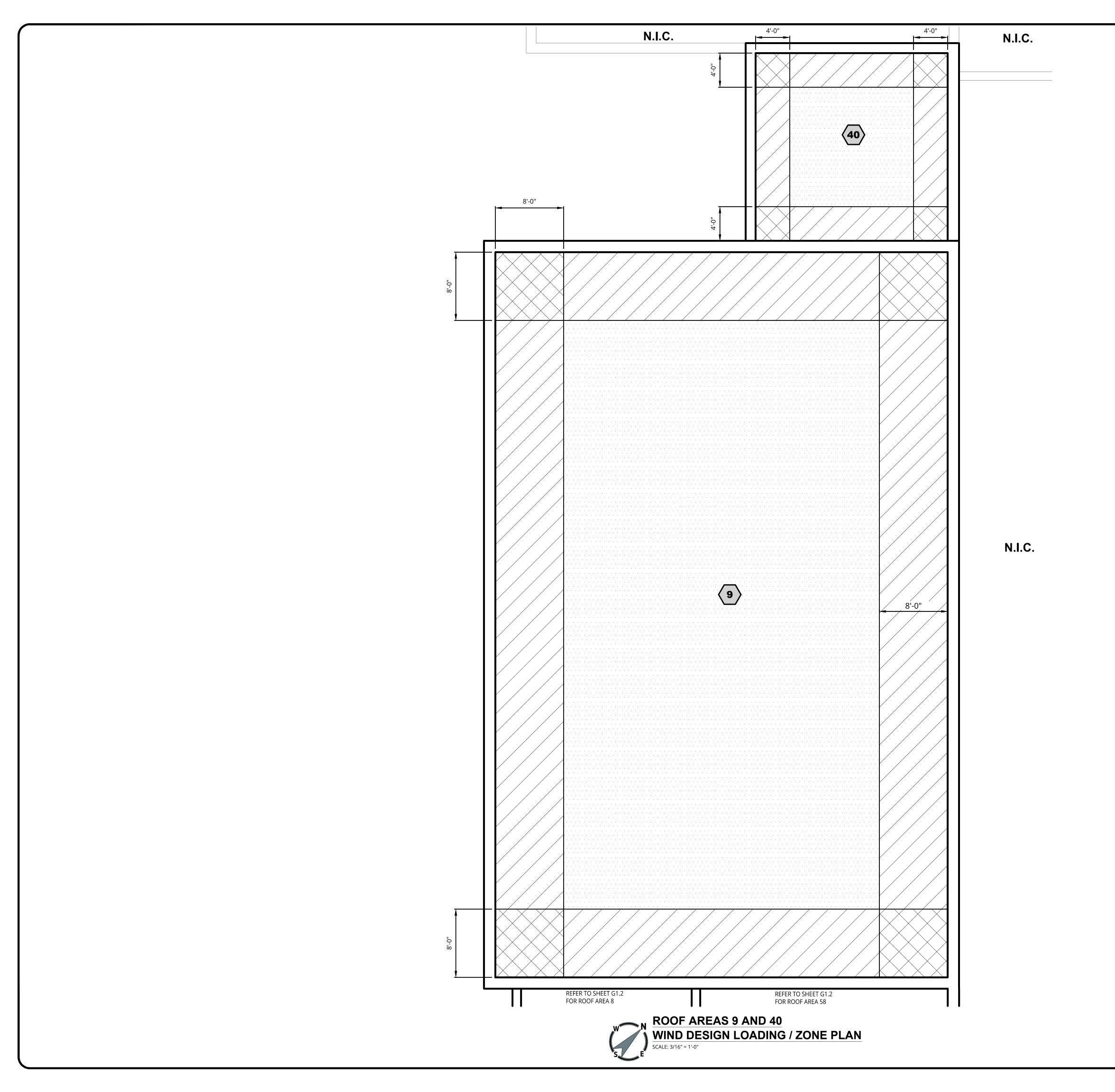
" - # " INDICATES PRESSURE ACTING AWAY FROM THE ROOF SURFACE, I.E. SUCTION

NOTES: 1. WORK WIND DESIGN LOADING ZONE PLAN WITH TABLE 1, THIS SHEET. 2. WIND UPLIFT PRESSURE GIVEN IN TABLE 1 TO BE USED FOR DESIGN OF

ROOFING FASTENING SYSTEM(S).

3. DESIGN PRESSURES BASED ON EFFECTIVE WIND AREA OF 10FT² OR LESS.

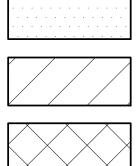




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ROOF AREA



ZONE 1

ZONE 3

ZONE 2

WIND DESIGN CRITERIA (MBC 2015)

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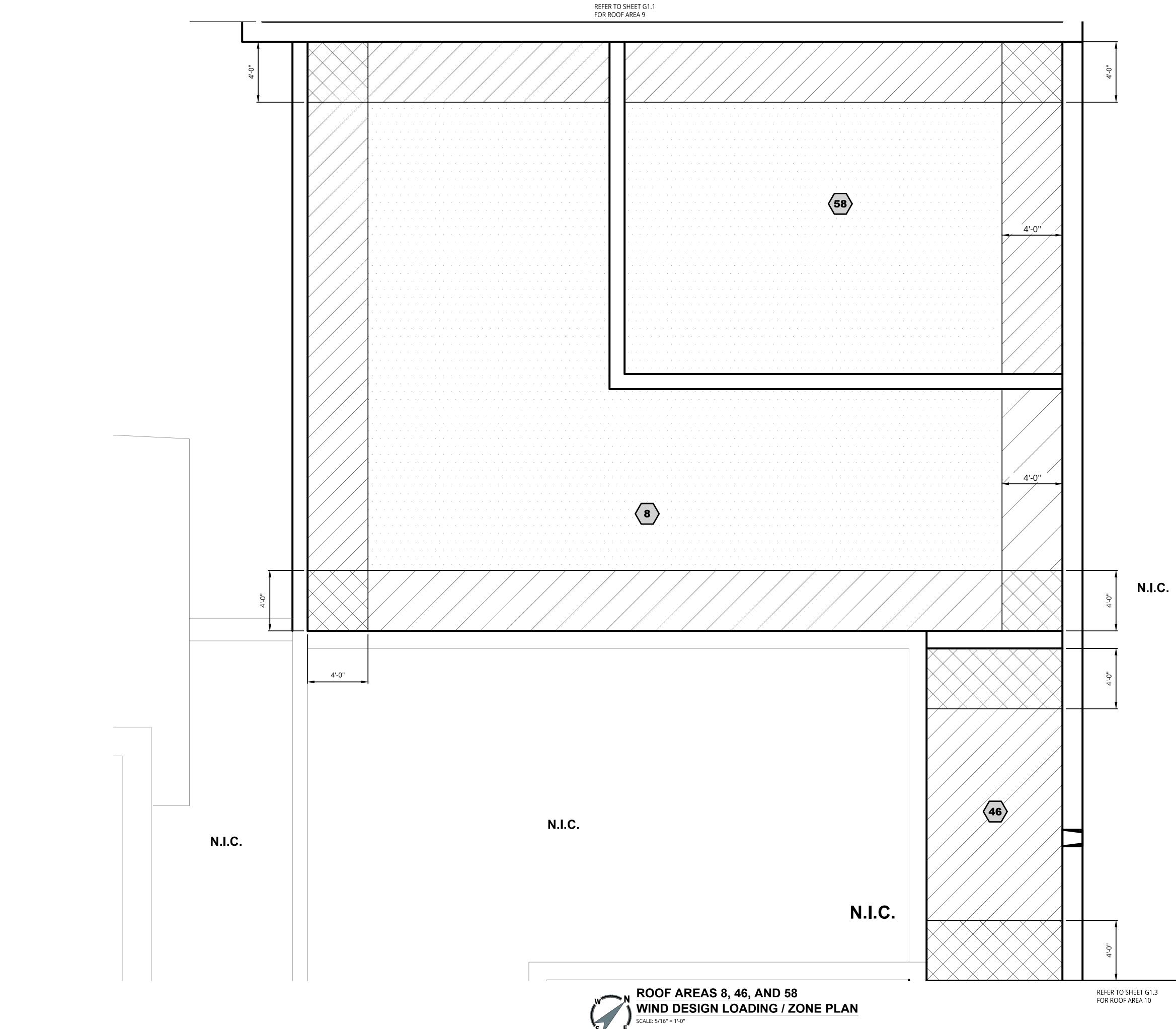
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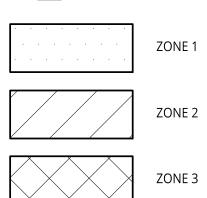




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Sheet Name ROOF AREAS 8, 46, AND 58 WIND DESIGN LOADING / ZONE PLAN				
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ROOF AREA



ZONE 1

ZONE 3

WIND DESIGN CRITERIA (MBC 2015)

KETTERING HIGH SCHOOL	
ULTIMATE DESIGN (FACTORED) BASIC WIND SPEED (3 SECOND GUST) =	120 MPH
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TABLE 1

SERVICE (UNFACTORED) DESIGN WIND LOADS - COMPONENTS AND CLADDING

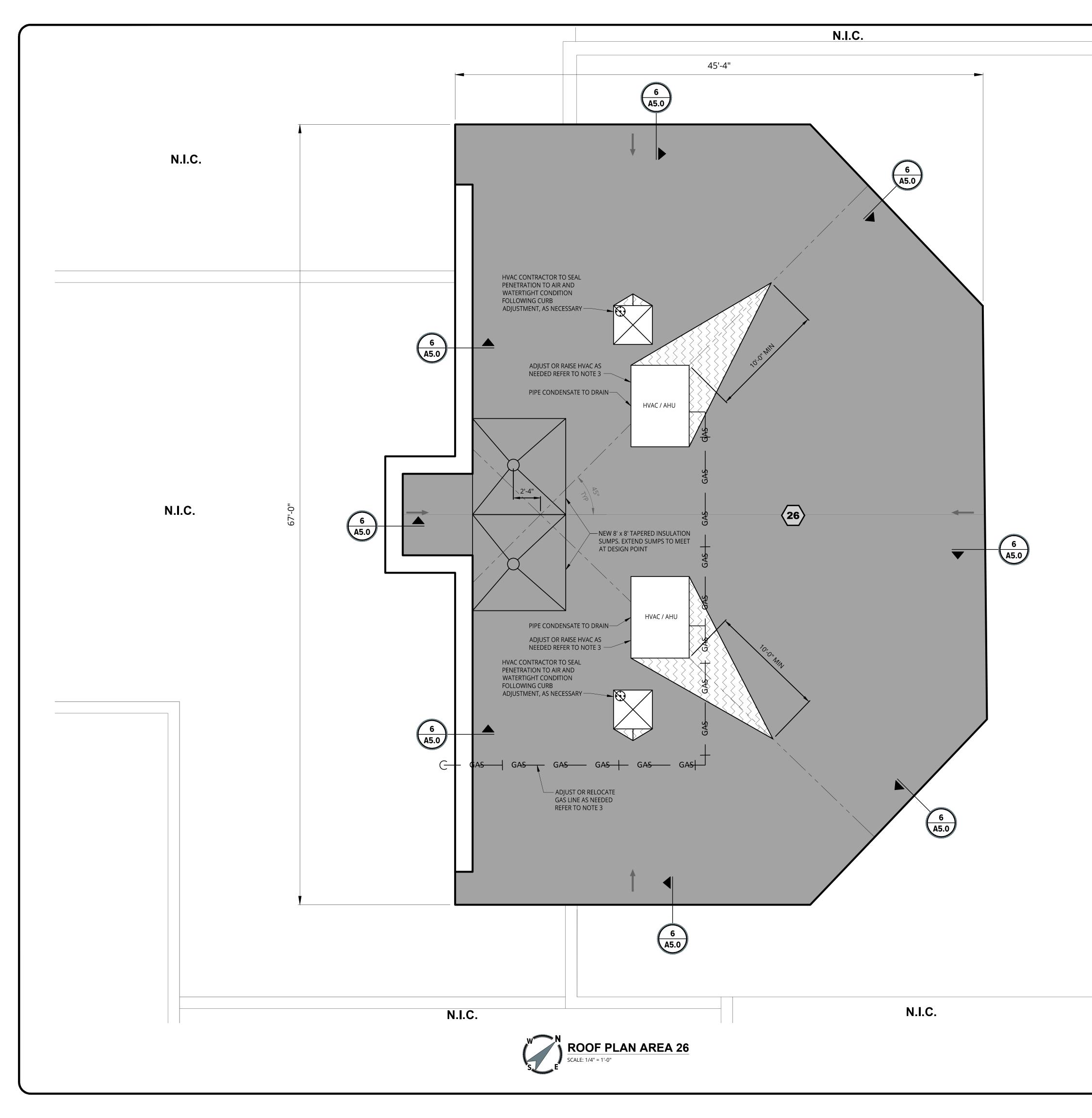
ROOF SURFACE VERTICAL PRESSURE (PSF)	
ZONE 1	- 21
ZONE 2 AND TOP/SIDE OF PARAPET	- 36
ZONE 3 AND TOP/SIDE OF PARAPET	- 53

NOTE: " - # " INDICATES PRESSURE ACTING AWAY FROM THE ROOF SURFACE, I.E. SUCTION

NOTES:
 WORK WIND DESIGN LOADING ZONE PLAN WITH TABLE 1, THIS SHEET.
 WIND UPLIFT PRESSURE GIVEN IN TABLE 1 TO BE USED FOR DESIGN OF ROOFING FASTENING SYSTEM(S).

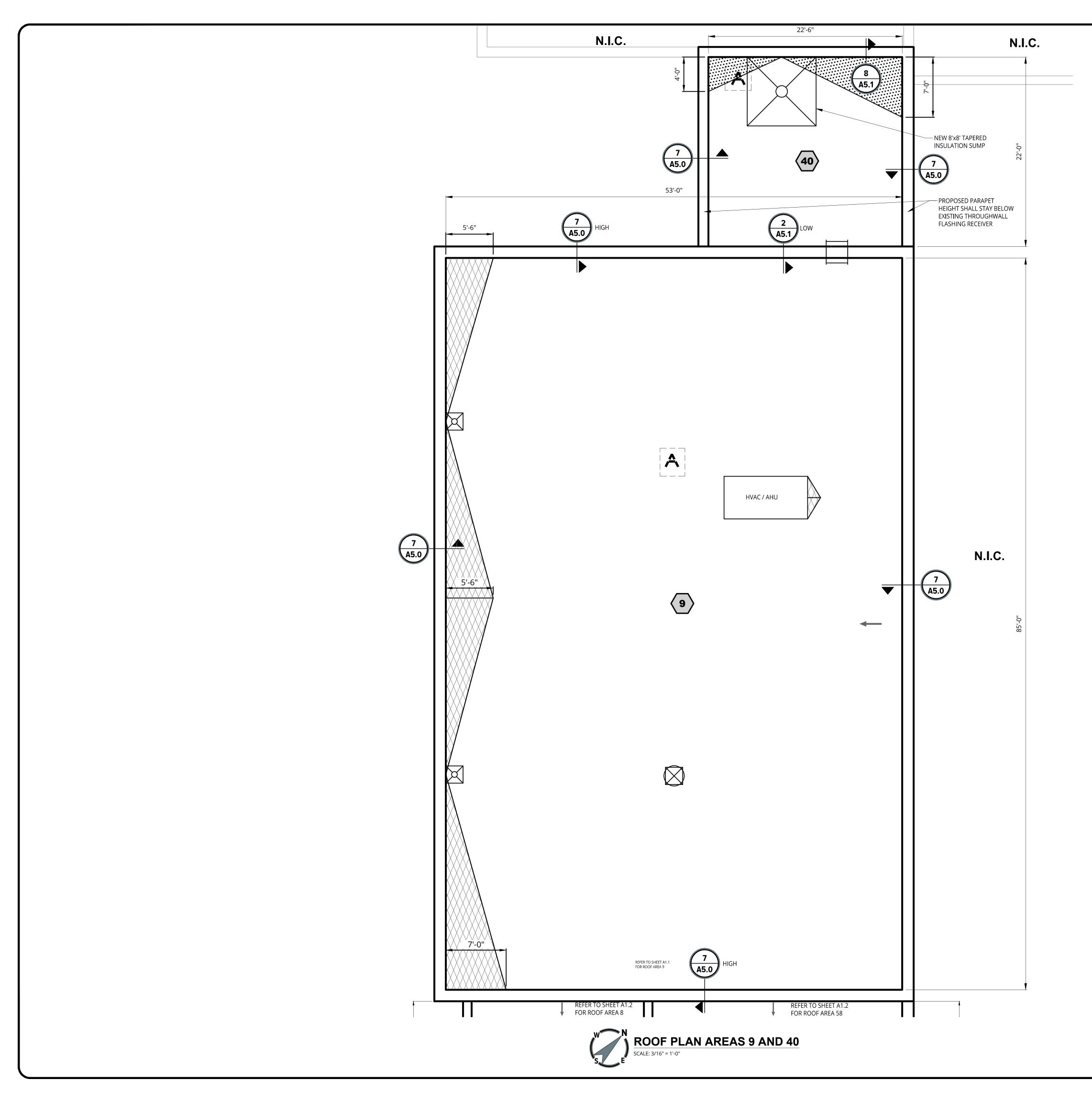
3. DESIGN PRESSURES BASED ON EFFECTIVE WIND AREA OF 10FT² OR LESS.



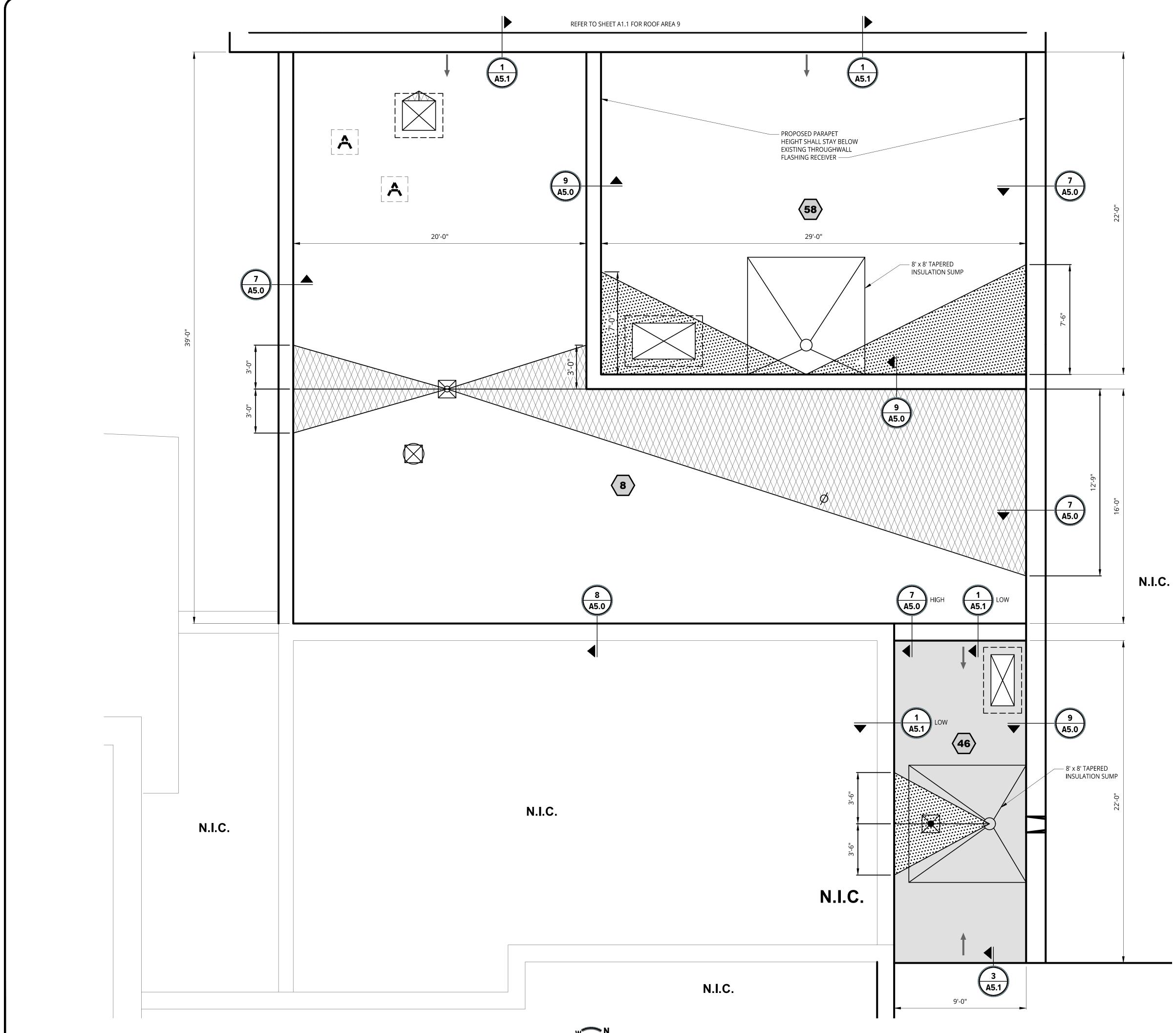


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#	ROOF AREA	Project Location	1		
	EXISTING ROOF DRAIN WITH SUMP, PER DETAIL 1 ON SHEET A5.0	2800 KE WATERF	TTERING I ORD TWP		8329
	EXISTING CONDENSING UNIT ON CURB, PER DETAIL 4 ON SHEET A5.0	Sheet Name ROOF PL	AN AREA	26	
HVAC / AHU	HVAC / AHU ON CURB, PER DETAIL 5 ON SHEET A5.0	Seal			
N.I.C.	WATER SHED DIRECTION				
H.I.C.	ROOF AREA NOT IN CONTRACT				
	ACTIVE GAS PIPE TO REMAIN, PER DETAIL 3 ON SHEET A5.0	Revisions REV ISSUED F	OR	DATE	BY
	1¼" PER FOOT TAPERED SADDLE	FOR BID		3-9-23	KD
	$\frac{1}{8}$ " PER FOOT TAPERED SYSTEM				
	VALLEY LINE				
1 A5.0	DETAIL CALL OUT				
		SME Project No	090588.04	4	
KETTERING HIGH SCHOOL NOTES:		Project Manage	r: KD		
RELOCATE UTILITIES. IN-PLACE SYST	UMBING, OR HVAC SUBCONTRACTORS TO ADJUST OR TEMS SHALL ACCOMMODATE NEW INSULATION THICKNESSES INTS FOR FLASH HEIGHT BY ROOFING MANUFACTURER.	Designer:	KD		
3. IF LARGE HVAC / AHU UNITS NEED I DETAIL FOR NEW RAISED HVAC / AH	RAISED, CONTRACTOR SHALL PROVIDE AN ENGINEERED IU SUPPORT(S) (SIGNED AND STAMPED BY AN ENGINEER AN). DETAIL TO BE PROVIDED TO SME (ENGINEER) FOR	CADD:	GUS		
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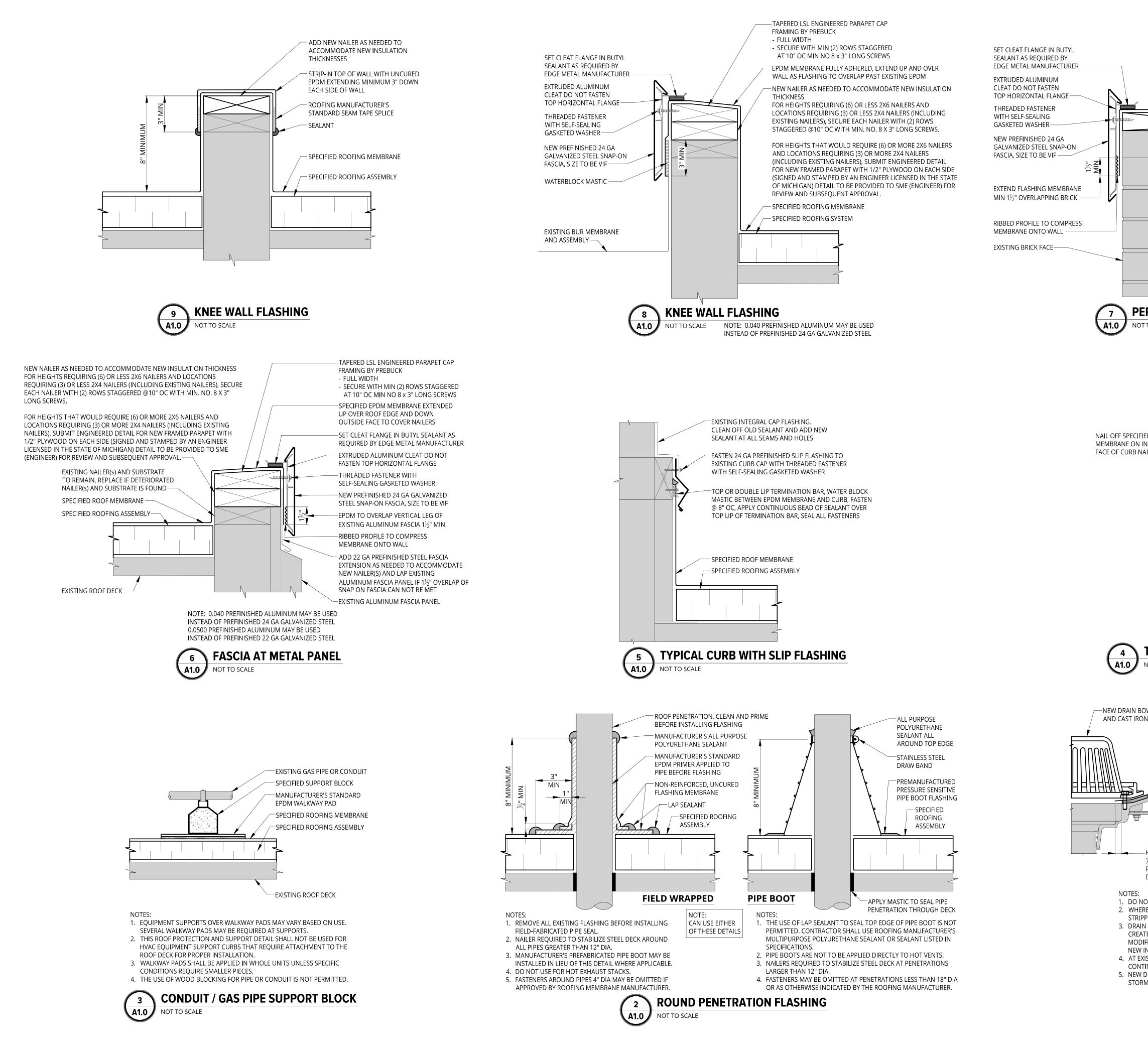
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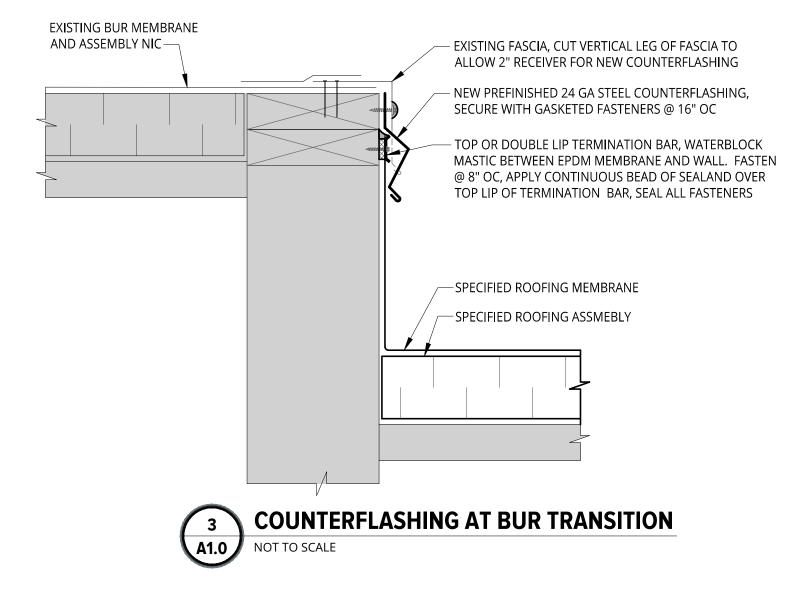
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LEGEND	ROOF AREA	Project Location 2800 KETTERING DR.,
	EXISTING ROOF DRAIN, PER DETAIL 1 ON SHEET A5.0	WATERFORD TWP., MI 48329
$\overline{\bigotimes}$	CURBED MOUNT POWERED VENT (24"x24"),	
	PER DETAIL 4 ON SHEET A5.0 EXISTING LADDER MOUNTED TO WALL	Sheet Name
	ABANDONED CURB, VERIFY ABANDONMENT WITH OWNERS REPRESENTATIVE. REFER TO NOTE 2	ROOF PLAN AREAS 9 AND 40
HVAC / AHU	HVAC / AHU ON CURB, PER DETAIL 5 ON SHEET A5.0	Seal
-	WATER SHED DIRECTION	
N.I.C.	ROOF AREA NOT IN CONTRACT	
	1" PER FOOT TAPERED SADDLE	
	$\frac{1}{2}$ " PER FOOT TAPERED SADDLE	Revisions REV ISSUED FOR DATE BY FOR BID 3-9-23 KD Image: State of the sta
1 A5.0	DETAIL CALL OUT	
DETAIL FOR STEEL DECK INFILL (SI	BS, CONTRACTOR SHALL PROVIDE AN ENGINEERED GNED AND STAMPED BY AN ENGINEER LICENSED AIL TO BE PROVIDED TO SME (ENGINEER) FOR DVAL PRIOR TO INSTALLATION.	SME Project No. 090588.04 Project Manager: KD Designer: KD CADD: GUS Checked By: KD Reviewed By: LD Sheet No. A1.1
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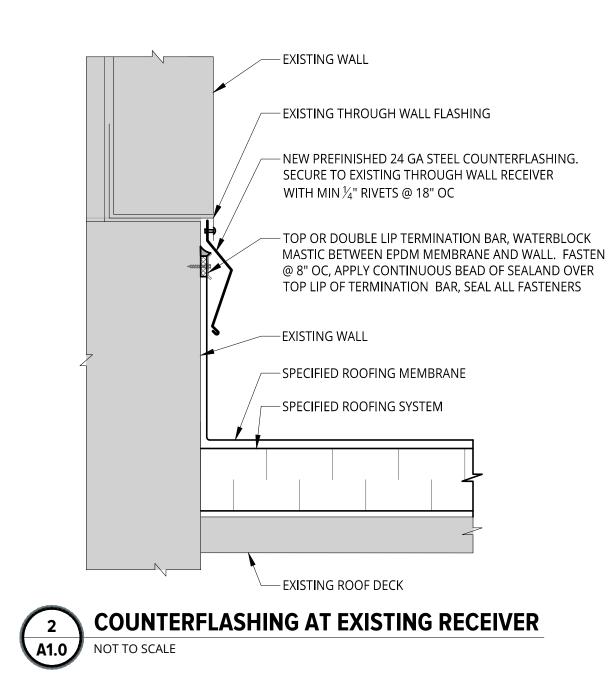


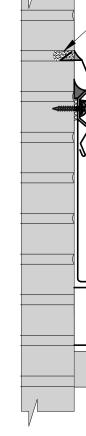
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\bowtie	EXISTING ROOF DRAIN PER DETAIL 1 ON SHEET A5.0			,			
	EXISTING ROOF OVERFLOW DRAIN PER DETAIL 1 ON SHEET A5.0						
\bigotimes	CURBED MOUNT POWERED VENT (24"x24"), PER DETAIL 4 ON SHEET A5.0	Sheet Name ROOF PLAN AREAS					
	ABANDONED CURB, VERIFY ABANDONMENT WITH OWNERS REPRESENTATIVE. REFER TO NOTE 2	8, 46 AND 58					
	VENT WITH HOOD ON CURB, PER DETAIL 4 ON SHEET A5.0	Seal					
Ø	SOIL VENT PIPE, PER DETAIL 2 ON SHEET A5.0						
	THRU WALL SCUPPER	Revisions	5				
-	WATER SHED DIRECTION		ISSUED FOR For BID	DATE 3-9-23	BY KD		
N.I.C.	ROOF AREA NOT IN CONTRACT						
	1" PER FOOT TAPERED SADDLE						
	$\frac{1}{2}$ " PER FOOT TAPERED SADDLE						
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1 A5.0	DETAIL CALL OUT	Project Manager: KD Designer: KD					
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 FIELD VERIFY ALL DIMENSIONS. AT ABANDONED UNITS AND CURBS, CONTRACTOR SHALL PROVIDE AN ENGINEERED DETAIL FOR STEEL DECK INFILL (SIGNED AND STAMPED BY AN ENGINEER LICENSED 			KD Reviewed By:				
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IN BOWL, CLAMPING RING, Γ IRON STRAINER AS SPECIFIED		OFING MEMBRANE						
12" 2" MIN 6" MAX								
		STING DF DECK			SME Project N Project Manag	090588.04	1	
HOLE IN MEMBRANE SHOULD EXTEND $\frac{1}{2}$ " MINIMUM BEYOND CLAMPING RING AND BE LARGER THAN THE DIAMETER OF THE LEADER PIPE					Designer:	KD		
ES: DO NOT RUN SEAMS THROUGH DRAINS OR SUMPS. WHERE FIELD SEAMS ARE WITHIN 18" OF DRAINS, TH STRIPPED IN WITH 5" WIDE UNCURED EPDM.					CADD:	GUS		
DRAIN HEIGHT TO REMAIN AS IS, INSTALL TAPERED IN CREATE A 4'x4' (UNO) SUMP AREA AROUND EACH DR, MODIFICATIONS AS NEEDED AT EXPANSION JOINTS A NEW INSULATION MAY NEED TO BE OMITTED TO ALL AT EXISTING DRAIN LOCATIONS, REPLACE DRAIN PIPI	AIN, WITH AND TIGHT SPACE OW SUMPED ARE ING TO FIRST				Checked By:	KD		
CONTINUOUS STRETCH. DIAMETER TO MATCH EXISTI NEW DRAIN LOCATIONS, SHALL BE CONNECTED TO N STORM WATER PLUMBING SYSTEM.	NEAREST ROOF				Reviewed By:	LD		
A1.0 NOT TO SCALE	-				Sheet No.	A5.0		
		ISSUED) FOR E	BID	D	RAWING NOTE: SCALE DEPICTED IS ME WILL SCALE INCORRECTLY IF PRINTEI MEDIA NO REPRODUCTION SHALL BE MADE CONSENT OF SM	O ON ANY OTHER SIZE	D







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	Orientation	Scale		
	Project 2023 WATERFORD SCHOOL DISTRICT KETTERING HIGH SCHOOL ROOFING REPLACEMENT			L
		TTERING		3329
	Sheet Name FLASHIN	IG DETAIL	S	
	Seal			
	Revisions REV ISSUED F	OR	DATE	BY
	FOR BID		3-9-23	KD
CUT IN MIN I-INCH DEEP NEW REGLET AND INSTALL COUNTERFLASHING, CONTINUOUS SEALANT ALONG ENTIRE EDGE 24 GA PREFINISHED GALV STEEL COUNTERFLASHING, HEM EXPOSED EDGE, FABRICATE WITH TENSION FORMING SHAPE, COUNTERFLASHING HELD IN REGLET BY SPRING ACTION FORM				
TOP OR DOUBLE LIP TERMINATION BAR, WATERBLOCK MASTIC BETWEEN EPDM MEMBRANE AND WALL. FASTEN @ 8" OC, APPLY CONTINUOUS BEAD OF SEALAND OVER TOP LIP OF TERMINATION BAR, SEAL ALL FASTENERS	SME Project No Project Manage	090588.0	4	
	Deciment	KD		
	Designer:	KD		
	CADD:	GUS		
	Checked By:	KD		
	Reviewed By:			
1 REGLET COUNTERFLASHING A1.0 NOT TO SCALE	Sheet No.	LD A5.1		
ISSUED FOR BID	w	WING NOTE: SCALE DEPICTED IS M ILL SCALE INCORRECTLY IF PRINTE MEDIA O REPRODUCTION SHALL BE MADD CONSENT OF SM © 2023	ED ON ANY OTHER SIZE	D