CHARDON LOCAL SCHOOLS 2021 ROOF PROJECT

CONSTRUCTION DOCUMENTS BID SET 3/29/21

DRAWING INDEX:

COVER SHEET

DETAIL SHEET 3

DETAIL SHEET 4

DETAIL SHEET 5

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D4

D5

SITE PLANS **GENERAL INFORMATION** DEMOLITION PLAN HIGH SCHOOL DEMOLITION PLAN MIDDLE SCHOOL A1.2 A1.3 **DEMOLITION PLAN MUNSON ELEMENTARY** ROOF SYSTEM CONFIGURATION TYPES A2.1 ROOF PLAN HIGH SCHOOL ROOF PLAN MIDDLE SCHOOL A2.2 **ROOF PLAN MUNSON ELEMENTARY** A2.3 A2.4 ROOF PLAN PARK AUDITORIUM & MAPLE ELEMENTARY A2.5 MASONRY PLAN PARK ELEMENTARY CLASSROOM **DETAIL SHEET 1** D1 **DETAIL SHEET 2** D2

GENERAL SCOPE:

- 1. High School, Middle School, Munson Elementary:
- 1.1. Tear off and replace all roof areas.
- 2. Park Elementary, Classroom Building;2.1. Masonry Repairs & Related roof flashing
- 3. Park Elementary Auditorium Bulding:3.1. Misc. repairs to existing BUR
- 4. Maple Elementary:
- 4.1. Metal roof repairs

CODES AND STANDARDS INFORMATION:

Ohio Building Code (OBC)

National Fire Protection Association (NFPA)

Occupational Safety and Health Standards of Construction Industry (OSHA)

Environmental Protection Agency

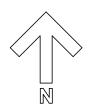
Underwriters Laboratories (UL) Class A

Wind Design Standards: ASCE 7 ANSI/SPRI WD-1

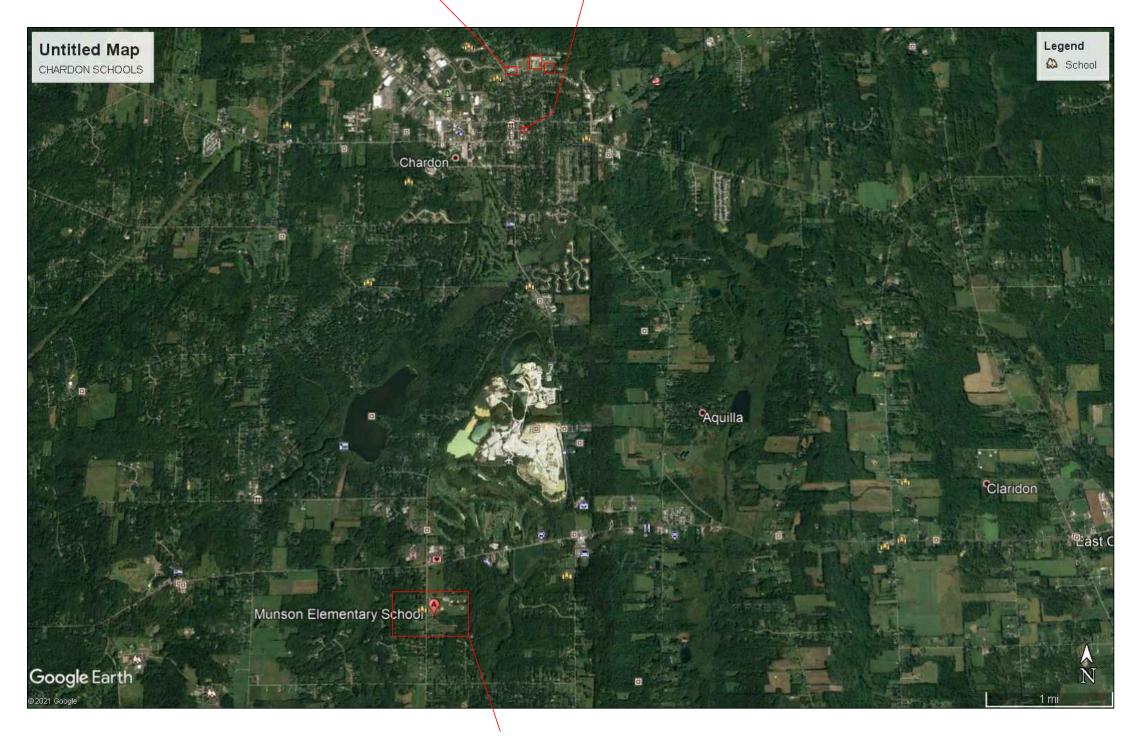


MIDDLE SCHOOL—

HIGH SCHOOL



— MAPLE ELEM.



MUNSON ELEM.

Project Contacts

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Email: tomc@adambradleyinc.com

Adam Bradley

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CHARDON SCHOOLS

2021 ROOF PROJECT

Project # BB201216

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Steve Kofol
Chardon Local Schools
Email: steven.kofol@chardonschools.org

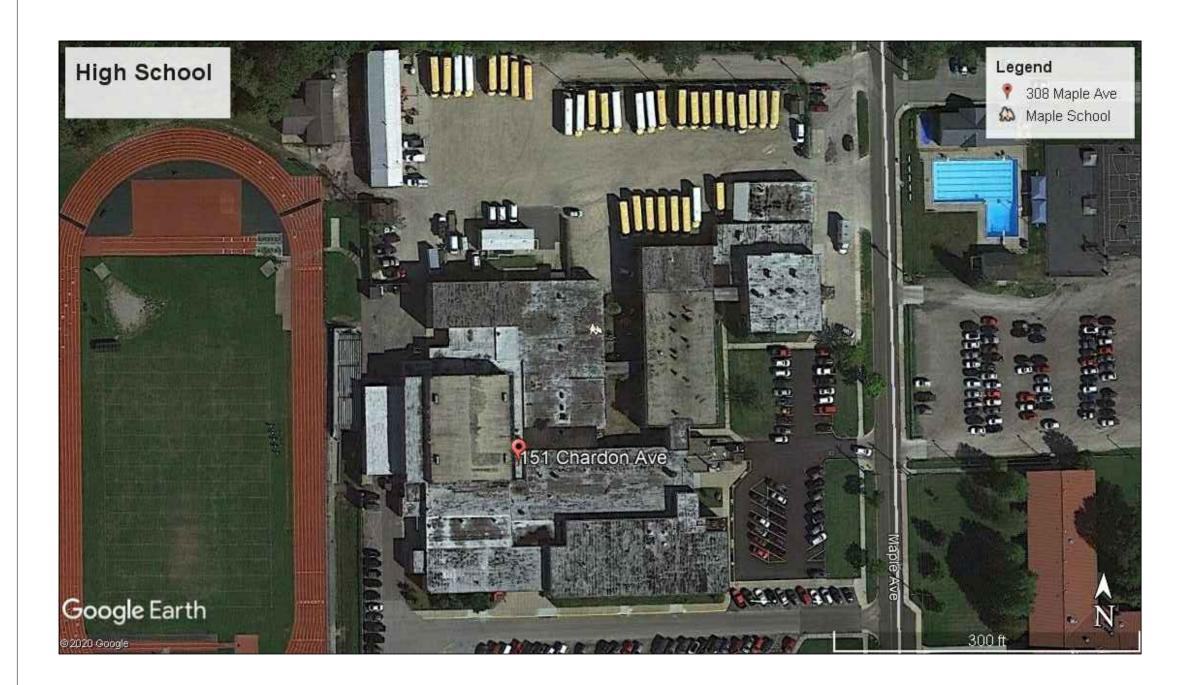
Drawing Title:

3.29.21

Scale Sheet NTS

____ ×

X1





CHARDON HIGH SCHOOL - 151 Chardon Ave.



Maple Elementary

MAPLE ELEMENTARY SCHOOL - 308 Maple Ave.



CHARDON MIDDLE SCHOOL- 424 North St



MUNSON ELEMENTARY SCHOOL - 12687 Bass Lake Rd.



AUDITORIUM

CLASSROOM

PARK ELEMENTARY SCHOOL - 111 Goodrich Ct.

GENERAL SITE PLAN NOTES:

- 1. Contractor to obtain, and include in their bid, all necessary approvals and permits from all authorities having jurisdiction.
- 2. Contractor shall restore, to it's original condition, any landscaping or other site elements damaged as a result of any contractor activities.
- 3. Set up locations are to be coordinated with Owner. Set up areas must not be located where they block emergency access roads, all doors, and any fire hydrants or other water access for fire connections.
- Contractor dumpster, staging and portable toilet areas shall be a secured area to deter unauthorized access to project area.

PHASING GENERAL NOTES:

- 1. The Work shall be accomplished in one phase, however, work shall be sequenced such that traffic on newly completed areas is minimized.
- 2. Construction schedule is to include days of inclement weather, at no additional cost to the Owner
- Contractor shall coordinate work with the entire set of documents..
- Contractor shall cooperate with the Owner's occupancy of the facility and shall execute the Work so as to interfere as little as possible with normal functioning of the facility. See Also Specification 01 14 00.

PROJECT SCHEDULE:

The time for substantial completion will be negotiated with the successful bidder who is to submit their estimated time of completion as a part of their bid submittals but all work must be substantially complete within the following guidelines

₹ 308 Maple Ave

🔉 Maple School

Project Start Date: June 12, 2021

Project End Date Aug. 15, 2021

PHASE 2:

Project Start Date: May 28, 2022

Project End Date Aug. 20, 2022

Project Contacts Tom Case

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CHARDON SCHOOLS

2021 ROOF PROJECT

Project # BB201216

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Bill Bare Adam Bradley Enterprises Inc. Mobile: 440-622-2246

Email: roofpro@sbcglobal.net Steve Kofol **Chardon Local Schools**

Email: steven.kofol@chardonschools.org

Drawing Title:

SITE PLANS

Scale NTS 3.29.21

GENERAL NOTES:

- 1. Do not scale drawings.
- 2. The contractor shall field verify all site conditions, including but not limited to, dimensions, existing condition components, slopes, etc.
- 3. The Contractor shall be responsible for obtaining all permits, licenses and fees for this work and contractor shall include any such costs in their bids.
- 4. Work shall be performed in accordance with all federal, state and local regulations and requirements, including but not limited to those of the Owner, OSHA and the EPA rules and regulations.
- 5. Contractor shall comply with Owners tobacco policy (Appendix 2 in specifications) 6. The contractor shall review and become familiar with all existing conditions prior to commencing work. Any existing conditions shown on these documents have been obtained from documents that were available and have been verified to the greatest extent possible, but are not guaranteed to be 100% accurate. Any conditions not documented on these drawings or observed to be different than those shown on these drawings are to be reported the Owner and Consultant prior to beginning work.
- 7. Roof area scope lines are intended to indicate the project work area and are schematic in nature. Additional work, as required by these documents, may occur outside the project scope lines. Contractor shall complete all work required by the documents.
- 8. The location, size, number, and types of penetrations, drains and equipment have been defined schematically and are approximate. Contractor shall be responsible for completing a detailed inventory of all to establish precise size, location, number and types. Any previously undefined conditions shall be brought to the immediate attention of the Consultant and Owner.
- 9. The contractor shall perform and submit a pre-construction survey, including photographic documentation of all existing conditions including any existing damage, for the project area and surrounding areas that may become damaged during the work. The pre-construction survey shall be submitted to the Consultant and Owner for approval prior to the beginning of construction.
- 10. Prior to commencement of any construction under this project, the contractor shall provide the Owner with 48 hours advanced notice.
- 11. The contractor shall coordinate work with the Owner as they relate to utility, power, or HVAC shut-downs. A 72 hours minimum notification shall be provided.
- 12. The contractor shall provide and implement a temporary protection plan to be employed for all existing roofs, walls and other structural and building features that are adjacent to or can become affected by they work. A temporary protection plan shall be submitted and approved by the Consultant and the Owner prior to the commencement of any work.
- 13. All surfaces, finishes, utilities or other building features that are damaged within the limits of construction or in adjacent areas as a result of the contractors work shall be repaired and returned to their original functioning and finished condition at no additional cost to the Owner. This includes, but is not limited to, adjacent roofs, facades, sidewalks, roadways, electrical piping and system lines, etc.
- 14. Air intakes must be shut down whenever dust, fumes or odors are possible. Coordinate shut downs with Owner.
- 15. The contractor shall remove all debris created as a result of this project, daily or as directed by the Owner and shall dispose of all construction waste in a legal and proper manner. All dirt, dust and debris must be swept from deck surfaces, including metal deck flutes
- Roofing work shall be performed so as to provide completed, functioning and water tight roof systems at all locations where roofing work is performed under this project. Completed work shall not impede drainage.
- 17. Protect all existing roofing, new roofing and facade systems (with rigid insulation covered by plywood) when moving materials, debris or equipment across roofing systems, staging or during storage. Storage shall be distributed to prevent concentrated loads being applied to the

- roof structure. Contractor shall submit for review load data for any palette or equivalent, which exceeds 500 lbs gross weight. Contractor shall maintain spacing between palettes at all times. 18. In general, new material and materials for repair conditions shall match similar items in quality,
- detail, profile, and finish as those already built into the work unless otherwise indicated. 19. All patching of existing material shall be done with the materials and workmanship matching
- 20. Prior to any other roof work, test drains to ensure that they are free flowing. Mark drains that are not free flowing and submit to Consultant and Owner to review. All drains shall be operational and free flowing at all times during the work and shall be maintained free of debris at all times.
- 21. Extend all conduits, condensate and gas lines as needed to provide for the final equipment heights. Adjust ductwork connections as necessary to provide complete connections at new
- 22. Existing mechanical equipment shall remain in place provided it does not have to be raised to achieve an 8" final flashing height. Contractor is to raise all equipment as necessary to provide a minimum of 8" flashing height above final roof surface elevation at all mechanical equipment and curbed units. Raise equipment and remove and replace existing rails or supports with new pate rails or curbs and anchor new rails or curbs to the deck. Install pate rails or curbs at all equipment where curbs or rails do not exist or where they are not mounted to the deck. Where equipment need not be raised, use manufacturer's approved flashing details, including, but not limited to slip flashing details, repair or replacement of damaged substrates, etc.. All roof-top equipment, curbs and rails shall be re-anchored to deck, flashed into membrane, flashed over the top of rails and curbs and a new metal cap flashing over rails and curbs shall be installed. All these conditions shall provide a complete, functioning and water tight roofing system.
- 23. Contractor shall inspect and extend all existing roof vents to ensure top of vent pipe is a minimum of 12" above the new finished roof surface. Replace all rusted, broken or damaged
- 24. Raise and temporarily support all conduits, piping, gas lines and other utilities as necessary to install the new roof system. Conduits and electrical lines must be disconnected and reconnected to run through new goose neck penetrations or pipe chases through the roof. Gas lines, conduits and pipes to be permanently raised as required to run above new roof system elevation. Contractor shall be responsible to include all costs associated with disconnecting and reconnecting service lines as required by qualified system contractors. Coordinate with Owner
- 25. All mechanical equipment that has been removed and re-installed to accommodate roofing work shall be returned to fully functioning and operational system.
- 26. The Contractor must include all costs associated with raising rooftop units, gas lines, soil stacks, conduits, etc. or with repositioning same to ensure that proper flashing heights as designed and required by the manufacturer and by industry standards are achieved. This includes costs involved in evacuating and charging HVAC units, and gas lines. Work may need to be performed during off hours to accommodate the Owner. The Contractor must also use licensed, Owner approved and proper subcontractors for all of this type of work.
- 27. Conduits, junction boxes, cabling, etc. that are mounted on walls or copings must be moved and remounted on masonry above the counter flashings or on proper blocking or supports on the roof. No such items may be mounted or remounted in a manner in which attachment penetrates roof membrane, flashing materials or metal components or accessories.
- 28. Where gas lines, pipes, conduit, duct work or the like penetrates horizontally through any surfaces including walls, equipment or the like, the openings must be sealed in an appropriate weatherproof manner.
- 29. Remove sealant from control and expansion joints on all walls on adjoining roof replacement
- areas. Caulk new and existing masonry joints and seal holes and penetrations through walls 30. All edge metal components shall comply with the latest version of ANSI/SPRI/FM4335 ES-1

wind uplift requirements. (latest edition)

- 31. Below deck and interior wall surface utilities and systems contractor shall inspect and inventory the underside of all deck systems and the interior surface side of of all exterior wall systems for the presence of electrical conduit, fire communications, cabling, data, control panel, or other utility lines and any other system features including, but not limited to drop ceiling, duct work or other supports that are secured to the bottom side of the deck systems or the interior surface of the existing exterior walls or that appear to penetrate the deck in a way that suggests that it may run across the top surface of the deck. The contractor shall review conditions and locations with the Owner and mark out such systems and items on the deck and wall surfaces prior to cutting into walls, removing roof system or deck materials or placement of mechanically fastened insulation, flashing, framing or other fastened building components to prevent damage to these items and systems during construction. The contractor shall be responsible to temporarily support, reinstall and repair and/or replace any such items and systems (by the Owners service contractors) for damage that occurs as a result of its work. Removal or temporary disconnection shall be coordinated with the Owner and performed by an approved
- 32. Contractor shall inspect underside of metal deck for spray on fireproofing and shall patch any areas where spray on fireproofing becomes dislodged as a result of construction activities. Contractor to protect interior equipment and finished surfaces from falling fireproofing with tarps or other suitable methods during removal of existing roof and installation of new roof system
- 33. Below deck condition inspection contractor shall inspect underside of all deck areas for visible damage that may require deck replacement and document areas required to be replaced. Submit to Consultant and Owner for review and approval prior to beginning roof removal.
- 34. All below deck inspections should be conducted seven days before beginning roof removal.
- 35. At the end of each day's work or before the arrival of inclement weather, the roof system shall be positively sealed. It is the contractor's responsibility to assure the night tie-ins are water tight and storm resistant. Water shedding night tie-ins are not acceptable
- 36. At the end of each days work, contractor shall inspect interior spaces under metal deck areas and areas where deck joints exist in panel or plank decks where existing roof has been removed and to clean up any dirt and debris which has fallen through.
- 37. Install duct, pipe and gas line supports as required to match existing support locations. 38. All condensate lines shall be re-installed and safe wasted to the roof drains.
- 39. Delegated Design: Should the contractor choose to utilize the existing roof structure for storing or transporting materials or debris staging or removal, then the contractor shall retain a structural engineer licensed in the State of Ohio, at no additional cost to the Owner, to assess the existing roof structure and design all supports, bracing, reinforcing and other related requirements for the protection of the roof surface and structural integrity of the building.
- 40. Masonry work areas where masonry has been removed and not yet replaced shall be shored as appropriate and shall be protected by temporary waterproofing measures until new masonry is installed.

Adam Bradley

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CHARDON SCHOOLS 2021 ROOF PROJECT Project # BB201216

Project Contacts

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Steve Kofol **Chardon Local Schools** Email: steven.kofol@chardonschools.org

SYMBOLS

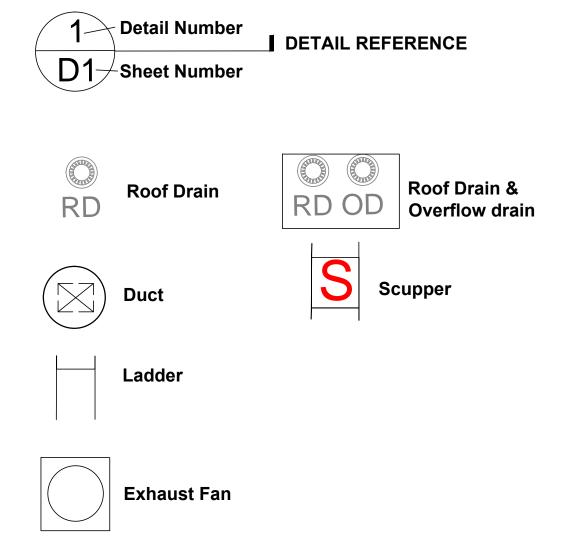
ADJ	adjacent	EQUIP	equipment	MAT	material	STD	standard
AL	Aluminum	ETR	existing to remain	MB	modified bitumen		
ALT	alternate	EXIST	existing	MAX	maximum	TEMP	temporary
APPROX	approximate	EXT	exterior	MEMB	membrane	THK	thick
ARCH	architect(ural)			MFR	manufacturer	TOD	top of deck
AUTO	automatic	FB	face brick	MIN	minimum	TOP	top of parapet
		FIN	finish	MISC	miscellaneous	TYP	typical
BLDG	building	FR	fire resistant	MTL	metal		., p
BLK	block(ing)	FT	feet			UNO	unless noted otherwise
BRK	brick		1001	N/A	not applicable	0.10	
BS	base sheet	GA	gauge	NTS	not to scale	VIF	verify in field
BUR	built-up-roofing	GALV	galvonized	1110	not to ocale	VB	vapor retarder
DOIX	bant ap roomig	GBUR	gravel surfaced	OC	on center	VB	vapor rotardor
CJ	control joint	OBOR	BUR	OPT	optional	W	width
CMU	concrete masonry unit	GR	grade	01 1	optional	W/	with
CONC	concrete	GWB	gypsum board	PERIM	perimeter	W/O	without
CONST	construction	OVVD	gypsum board	PNL	panel	WD	wood
CONT	continuous	HORIZ	horizontal	PLYWD	plywood	WF	wood fiber insulation
CTR		HR		PROJ		VVI	wood liber irisdiation
CIK	center	HT	hour	FIXOJ	projection		
DDI	double		height	OTV	quantity.		
DBL	double	HVAC	heating, ventilation air	QTY	quantity		
DEG	degrees		conditioning	DΠ	roof drain		
DEMO	demolition	ID	incide diameter	RD DEINIE	roof drain		
DIA	diameter	ID IN	inside diameter	REINF	reinforcement		
DIM	dimension	IN	inch		(reinforcing)		
DS	down spout	INCL	include	COLIED	ماريا م		
DET	detail	INSUL	insulation	SCHED	schedule		
DWG	drawing	LD		SDL	saddle		
- A		LB	pound	SECT	section		
EA	each	LF	linear foot	SHT	sheet		
EIFS	exterior insulation &	LWC	Light weight concrete	SPEC	specifications		
	finish system			SPR	single ply roofing		

square inch

masonry

ABBREVIATIONS

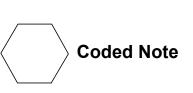
expansion joint



Satillelite Dish on paver

Round Stack with Metal Hood - may be Hot stack

ballasted stand



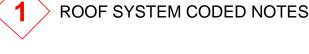
Construction information of Existing Roof Area based on core cut.



Construction information of Existing Roof Area based on Plan information provided



Asbestos test results

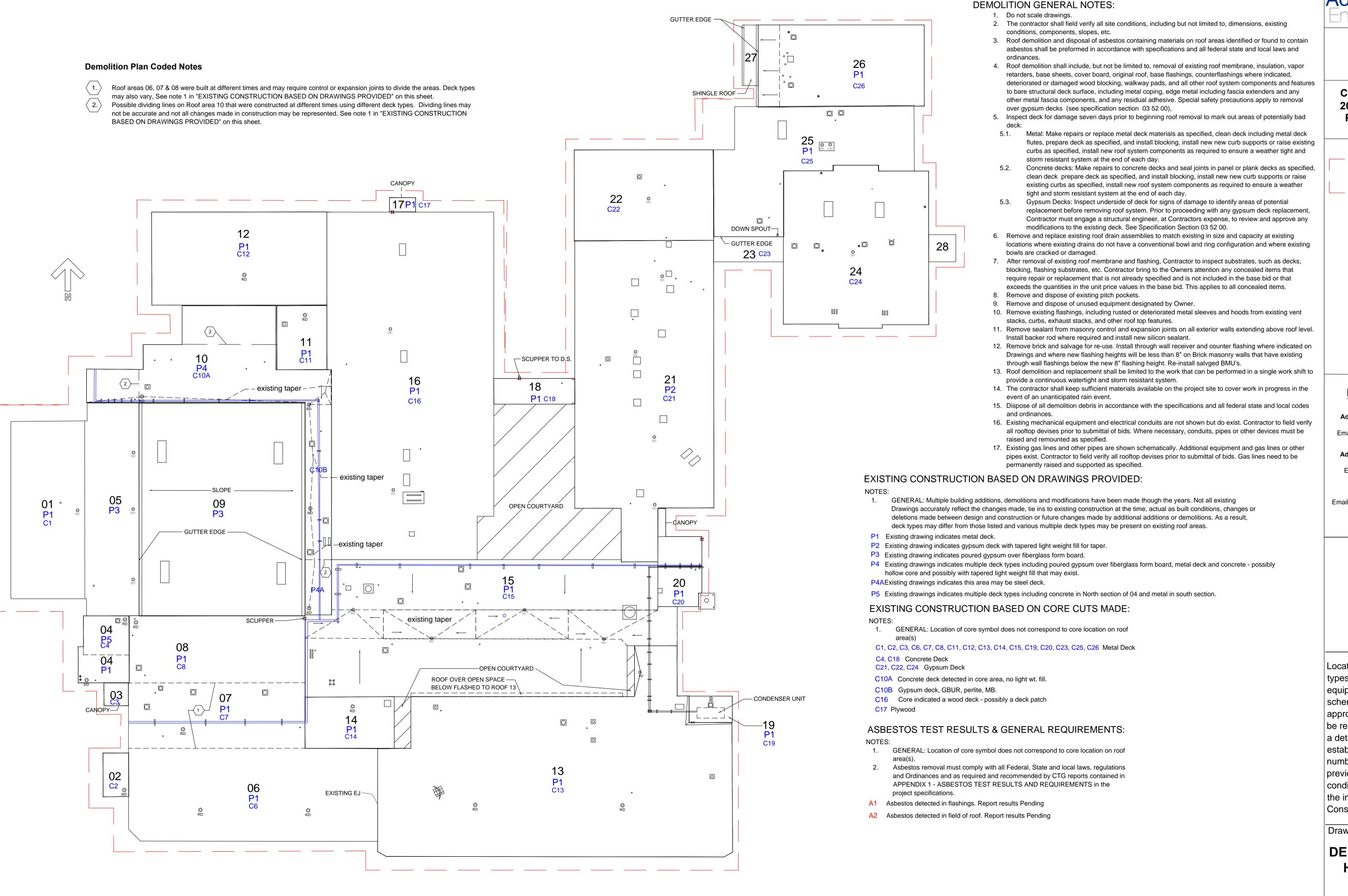


Drawing Title:

General Information

Sheet NTS Date 3.29.21

A0.0



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CHARDON SCHOOLS 2021 ROOF PROJECT Project # BB201216

Legend:

= Roof Areas Included in Roof Replacement

Scope

Project Contacts

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Location, size, number, and types of penetrations and equipment have been defined schematically and are approximate. Contractor shall be responsible for completing a detailed inventory of all to establish precise size, location, number and types. Any previously undefined conditions shall be brought to the immediate attention of the Consultant.

Drawing Title:

DEMOLITION PLAN HIGH SCHOOL

Sheet NTS Date 3.29.21

A1.1



Middle School

DEMOLITION GENERAL NOTES:

- Do not scale drawings.
- 2. The contractor shall field verify all site conditions, including but not limited to, dimensions, existing conditions, components, slopes, etc.
- Roof demolition and disposal of asbestos containing materials on roof areas identified or found to contain asbestos shall be preformed in accordance with specifications and all federal state and local laws and ordinances.
- 4. Roof demolition shall include, but not be limited to, removal of existing roof membrane, insulation, vapor retarders, base sheets, cover board, original roof, base flashings, counterflashings where indicated, deteriorated or damaged wood blocking, walkway pads, and all other roof system components and features to bare structural deck surface, including metal coping, edge metal including fascia extenders and any other metal fascia components, and any residual adhesive.
- 5. Inspect deck for damage seven days prior to beginning roof removal to mark out areas of potentially bad deck. Make repairs or replace of all deck materials as specified, clean deck including metal deck flutes, prepare deck as specified, and install blocking, install new new curb supports or raise existing curbs as specified, install new roof system components as required to ensure a weather tight and storm resistant system at the end of each day.
- 6. Remove and replace existing roof drain assemblies to match existing in size and capacity at existing locations where existing drains do not have a conventional bowl and ring configuration where existing bowls are cracked or damaged.
- 7. After removal of existing roof membrane and flashing, Contractor to inspect substrates, such as decks, blocking, flashing substrates, etc. Contractor bring to the Owners attention any concealed items that require repair or replacement that is not already specified and is not included in the base bid or that exceeds the quantities in the unit price values in the base bid. This applies to all concealed items.
- 8. Remove and dispose of existing pitch pockets.
- 9. Remove and dispose of unused equipment designated by Owner.
- 10. Remove existing flashings, including rusted or deteriorated metal sleeves and hoods from
- existing vent stacks, curbs, exhaust stacks, and other roof top features.

 11. Remove sealant from masonry control and expansion joints on all exterior walls extending
- 11. Remove sealant from masonry control and expansion joints on all exterior walls extending above roof level. Install backer rod where required and install new silicon sealant.
- 12. Remove brick and salvage for re-use. Install through wall receiver and counter flashing where indicated on Drawings and where new flashing heights will be less than 8" on Brick masonry walls that have existing through wall flashings below the new 8" flashing height. Re-install salvged BMU's.
- 13. Roof demolition and replacement shall be limited to the work that can be performed in a single work shift to provide a continuous watertight and storm resistant system.
- 14. The contractor shall keep sufficient materials available on the project site to cover work in progress in the event of an unanticipated rain event.
- progress in the event of an unanticipated rain event.

 15. Dispose of all demolition debris in accordance with the specifications and all federal state and
- local codes and ordinances.16. Existing mechanical equipment and electrical conduits are not shown but do exist. Contractor to field verify all rooftop devises prior to submittal of bids. Where necessary, conduits, pipes or other devices must be raised and remounted as specified.
- 17. Existing gas lines and other pipes are shown schematically. Additional equipment and gas lines or other pipes exist. Contractor to field verify all rooftop devises prior to submittal of bids. Gas lines need to be permanently raised and supported as specified.

EXISTING CONSTRUCTION BASED ON DRAWINGS PROVIDED:

NOTES:

1. GENERAL: Multiple building additions, demolitions and modifications have been made though the years. Not all existing Drawings accurately reflect the changes made, tie ins to existing construction at the time, actual as built conditions, changes or deletions made between design and construction or future changes made by additional additions or demolitions. As a result, deck types may differ from those listed and various multiple deck types may be present on existing roof areas.

P1 Existing drawing indicates metal deck.

P1a Existing drawing indicates metal deck, inspections indicate metal deck goes in two different directions

EXISTING CONSTRUCTION BASED ON CORE CUTS MADE:

NOTES

- GENERAL: Location of core symbol does not correspond to core location on roof area(s)
- C2 MB, ½" WF, GBUR, Fiberglass, Rosin Paper, Metal
- C3 MB, WF, GBUR, Fiberglass, metal
- C6 2 layers MB, Vented BS, pitch GBUR, Fiberglass, Metal
- C7 MB, Vented BS, GBUR, Perlite, VB, Metal. 4" thick
- C8 MB, 1/2" WF, GBUR, Perlite, metal
- C9 MB, ½" WF, GBUR, Perlite, VB, Metal

ASBESTOS TEST RESULTS & GENERAL REQUIREMENTS:

NOTES:

- GENERAL: Location of core symbol does not correspond to core location on roof area(s).
- Asbestos removal must comply with all Federal, State and local laws, regulations and Ordinances and as required and recommended by CTG reports contained in APPENDIX 1 - ASBESTOS TEST RESULTS AND REQUIREMENTS in the project specifications.
- A1 Asbestos detected in flashings. Report results Pending
- A2 Asbestos detected in field of roof. Report results Pending

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CHARDON SCHOOLS 2021 ROOF PROJECT Project # BB201216

Legend:

Scope

= Roof Areas Included in Roof Replacement

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Location, size, number, and types of penetrations and equipment have been defined schematically and are approximate. Contractor shall be responsible for completing a detailed inventory of all to establish precise size, location, number and types. Any previously undefined conditions shall be brought to the immediate attention of the Consultant.

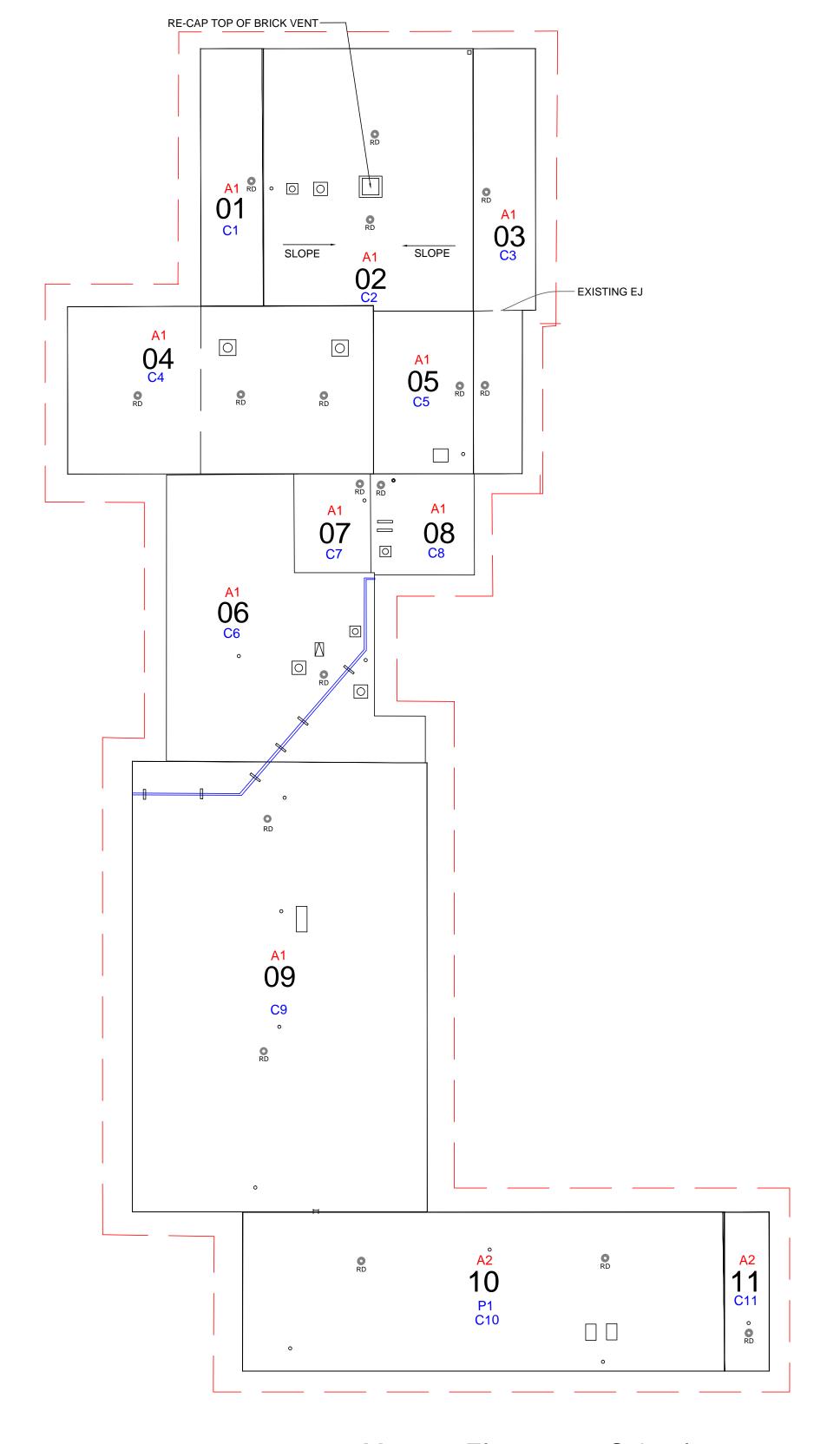
Drawing Title:

DEMOLITION PLAN MIDDLE SCHOOL

Scale Sheet NTS

Date 3.29.21

A1.2



Munson Elementary School

DEMOLITION GENERAL NOTES:

- 1. Do not scale drawings.
- 2. The contractor shall field verify all site conditions, including but not limited to, dimensions, existing conditions, components, slopes, etc.
- Roof demolition and disposal of asbestos containing materials on roof areas identified or found to contain asbestos shall be preformed in accordance with specifications and all federal state and local laws and ordinances.
- 4. Roof demolition shall include, but not be limited to, removal of existing roof membrane, insulation, vapor retarders, base sheets, cover board, original roof, base flashings, counterflashings where indicated, deteriorated or damaged wood blocking, walkway pads, and all other roof system components and features to bare structural deck surface, including metal coping, edge metal including fascia extenders and any other metal fascia components, and any residual adhesive.
- 5. Inspect deck for damage seven days prior to beginning roof removal to mark out areas of potentially bad deck. Make repairs or replace of all deck materials as specified, clean deck including metal deck flutes, prepare deck as specified, and install blocking, install new new curb supports or raise existing curbs as specified, install new roof system components as required to ensure a weather tight and storm resistant system at the end of each day.
- 6. Remove and replace existing roof drain assemblies to match existing in size and capacity at existing locations where existing drains do not have a conventional bowl and ring configuration where existing bowls are cracked or damaged.
- 7. After removal of existing roof membrane and flashing, Contractor to inspect substrates, such as decks, blocking, flashing substrates, etc. Contractor bring to the Owners attention any concealed items that require repair or replacement that is not already specified and is not included in the base bid or that exceeds the quantities in the unit price values in the base bid. This applies to all concealed items.
- 8. Remove and dispose of existing pitch pockets.
- Remove and dispose of unused equipment designated by Owner.
- 10. Remove existing flashings, including rusted or deteriorated metal sleeves and hoods from existing vent stacks, curbs, exhaust stacks, and other roof top features.
- 11. Remove sealant from masonry control and expansion joints on all exterior walls extending above roof level. Install backer rod where required and install new silicon sealant.
- 12. Remove brick and salvage for re-use. Install through wall receiver and counter flashing where indicated on Drawings and where new flashing heights will be less than 8" on Brick masonry walls that have existing through wall flashings below the new 8" flashing height. Re-install salvged BMU's.
- 13. Roof demolition and replacement shall be limited to the work that can be performed in a single work shift to provide a continuous watertight and storm resistant system.
- 14. The contractor shall keep sufficient materials available on the project site to cover work in progress in the event of an unanticipated rain event.
- 15. Dispose of all demolition debris in accordance with the specifications and all federal state and local codes and ordinances.
- 16. Existing mechanical equipment and electrical conduits are not shown but do exist. Contractor to field verify all rooftop devises prior to submittal of bids. Where necessary, conduits, pipes or other devices must be raised and remounted as specified.
- 17. Existing gas lines and other pipes are shown schematically. Additional equipment and gas lines or other pipes exist. Contractor to field verify all rooftop devises prior to submittal of bids. Gas lines need to be permanently raised and supported as specified.

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CHARDON SCHOOLS 2021 ROOF PROJECT Project # BB201216

Legend:

= Roof Areas Included in Roof Replacement

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EXISTING CONSTRUCTION BASED ON CORE CUTS MADE:

- GENERAL: Location of core symbol does not correspond to core location on roof area(s)
- C1 AL coating, MB, ~1/2" WF, GBUR, ~1" Perlite, ~2" Iso, ~1" Fiberglass, granulated BUR or VB, Fiberglass, concrete panel

EXISTING CONSTRUCTION BASED ON DRAWINGS PROVIDED:

ASBESTOS TEST RESULTS & GENERAL REQUIREMENTS:

1. GENERAL: Location of core symbol does not correspond to core location on roof

Asbestos removal must comply with all Federal, State and local laws, regulations

APPENDIX 1 - ASBESTOS TEST RESULTS AND REQUIREMENTS in the

and Ordinances and as required and recommended by CTG reports contained in

P1 Existing drawing indicates metal deck.

project specifications.

A2 Asbestos detected in field of roof.

A1 Asbestos detected in flashings.

- C2 AL Coating, MB, WF?, Perlite, BUR?, Fiberglass, BUR, Fiberglass, Concrete
- C3 AL coating, MB, ~1/2" WF?, GBUR, ~1" Perlite, ~2" Iso, ~1" Fiberglass, granulated BUR or VB, Fiberglass, concrete panel
- C4 AL Coating, MB, WF?, Perlite, BUR?, Fiberglass, BUR, Fiberglass, Concrete panel
 C5 AL coating, MB, ~1/2" WF, GBUR, ~1" Perlite, ~2" Iso, GBUR, ~1"
- Fiberglass, granulated VB, base sheets below VB, concrete panel

 C6 AL coating, MB WF, GBUR, LWC, Styroform board, concrete
- C7 AL Coating, MB, WF?, BUR, LWC, styrofoam board, concrete
- C8 AL Coating, MB, WF?, BUR, LWC, styrofoam board, concrete
- C9 AL Coating, MB, WF, GBUR, 2 layers 2" Perlite in hot bitumen, plastic VB, metal deck
- C10 AL Coating, MB, Perlite, GBUR, perlite, plastic VB, metal
- C11 AL Coating, MB, Perlite, GBUR, perlite, plastic VB, metal

Location, size, number, and types of penetrations and equipment have been defined schematically and are approximate. Contractor shall be responsible for completing a detailed inventory of all to establish precise size, location number and types. Any previously undefined conditions shall be brought to the immediate attention of the Consultant.

Drawing Title:

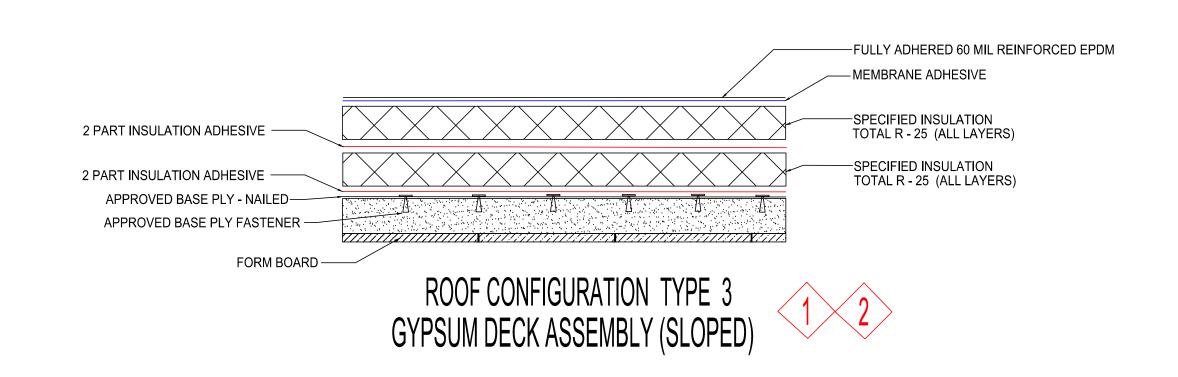
DEMOLITION PLAN
MUNSON
ELEMENTARY
SCHOOL

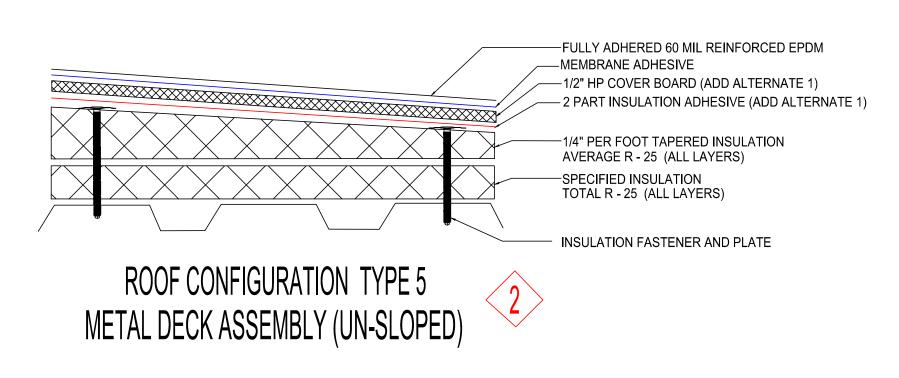
NTS

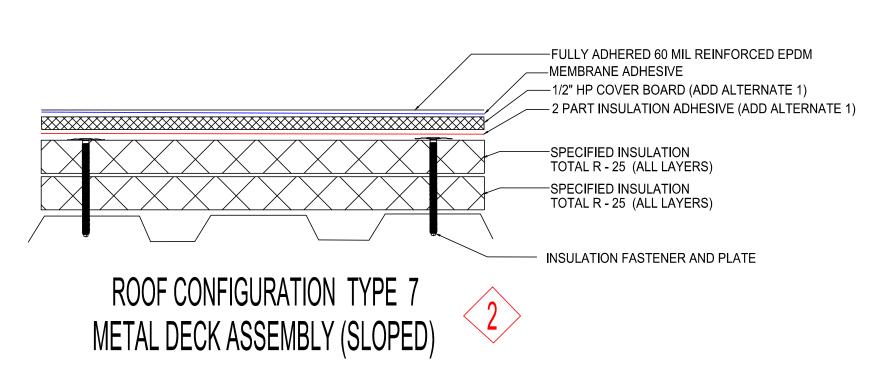
Date
3.29.21

Sheet A1.3

ROOF DECK PANEL JOINT TO BE SEALED WITH 6" SELF ADHERED TAPE -FULLY ADHERED 60 MIL REINFORCED EPDM MEMBRANE ADHESIVE 1/4" PER FOOT TAPERED INSULATION AVERAGE R - 25 (ALL LAYERS) 2 PART INSULATION ADHESIVE SPECIFIED INSULATION TOTAL R - 25 (ALL LAYERS) 2 PART INSULATION ADHESIVE FULLY ADHERED VAPOR RETARDER -APPROVED BY MANUFACTURER CONCRETE OR CONCRETE PLANK DECK -ROOF CONFIGURATION TYPE 1 CONCRETE /CONCRETE PANEL DECK (UN-SLOPED)



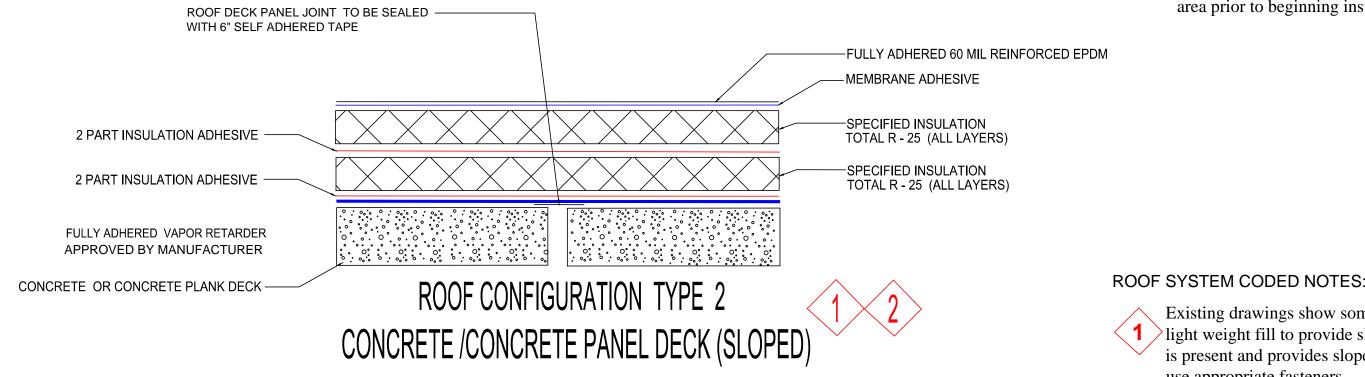


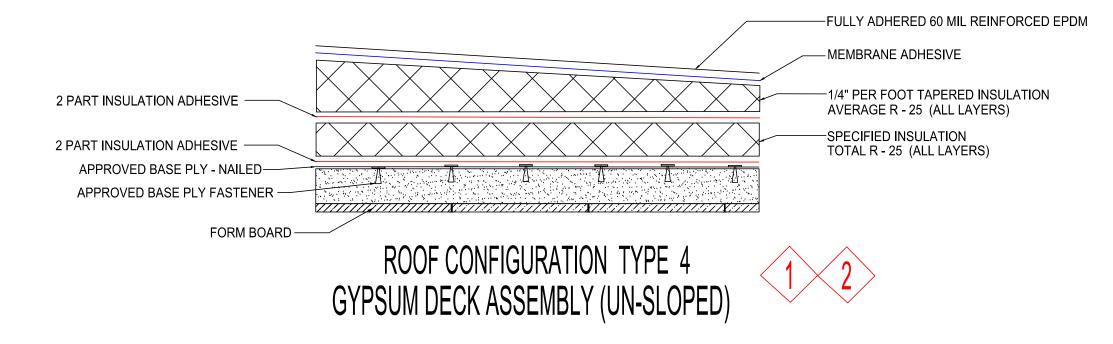


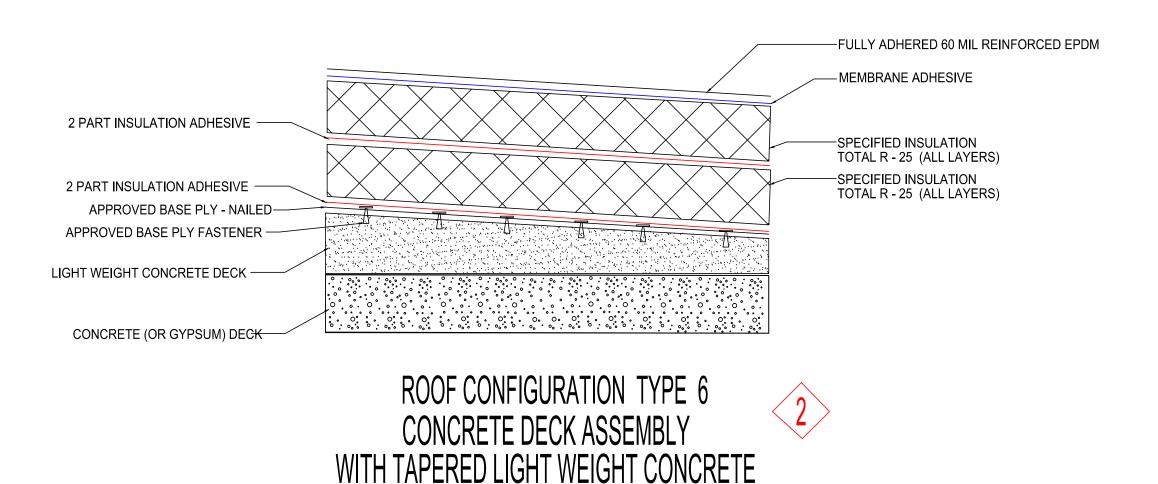
ROOF SYSTEM CONFIGURATION NOTES::

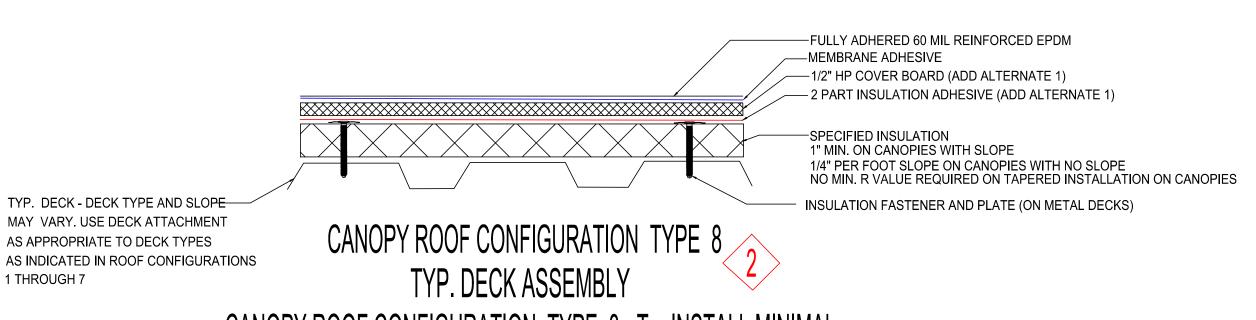
DECK PREPARATION:

- Repair/replace deck materials as required.
- Clean/prime deck as required.
- Tapered insulation plans are to be submitted by contractor after confirming existing slopes on each deck area prior to beginning installation.









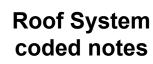
CANOPY ROOF CONFIGURATION TYPE 8 - T = INSTALL MINIMAL THICKNESS OF 1/4" PER FOOT TAPERED INSULATION INSTEAD OF 1" FLAT STOCK

Adam Bradley

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CHARDON SCHOOLS 2021 ROOF PROJECT Project # BB201216

Legend:



Existing drawings show some areas may be overlaid with 1 > light weight fill to provide slope. If sloped light weight fill is present and provides slope, use roof system TYPE 6 and use appropriate fasteners.

Tapered saddles and crickets are to be installed on all roof types where required to provide positive drainage between drains and scuppers, around curbs and where ever else required based on field conditions to provide positive drainage

Project Contacts

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Bill Bare Adam Bradley Enterprises Inc. Mobile: 440-622-2246

Email: roofpro@sbcglobal.net **Steve Kofol**

Chardon Local Schools Email: steven.kofol@chardonschools.org

GENERAL NOTES FOR ALL ROOF SYSTEM TYPES:

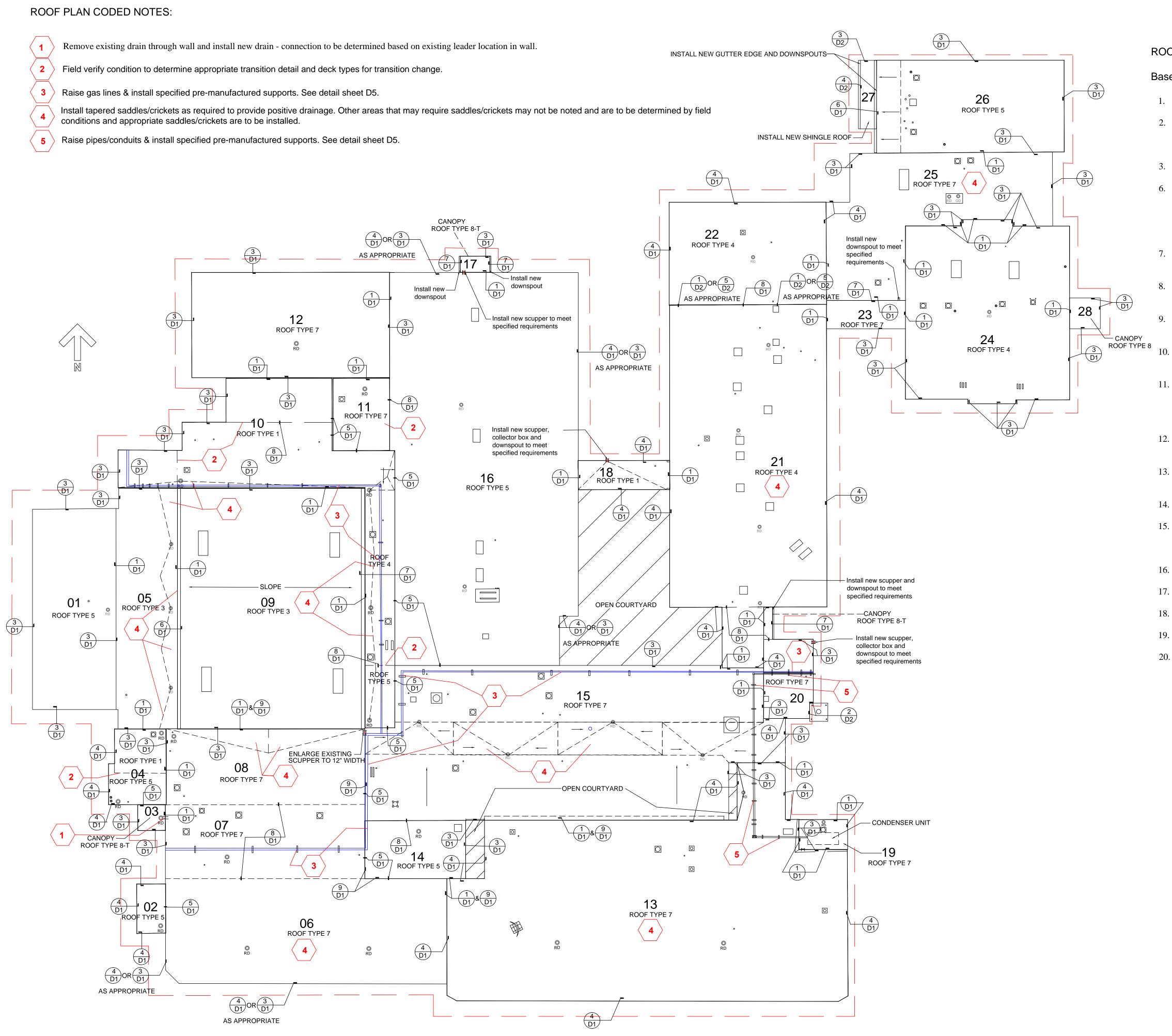
1. CONTRACTOR TO CONFIRM **DECK TYPES AND SLOPES BEFORE** PROCEEDING WITH INSTALLATION OF ANY SPECIFIC SYSTEM TYPE.

Drawing Title:

ROOF SYSTEM CONFIGURATION TYPES

NTS Date 3.29.21

A2.0



ROOF PLAN SCOPE OF WORK:

Base Bid:

- Air intakes must be shut down whenever dust, fumes or odors are possible. Coordinate shut downs with Facilities Management
- On brick masonry unit (BMU) walls, install new through wall receiver and counterflashing where existing through wall flashing exists and where new flashing heights would be less than 8" below the existing through wall flashing. Reinstall salvaged BMU's or replace to match in kind.
- Repair concrete deck and repair or replace metal deck and gypsum decking and form boards as required.
- Raise all mechanical equipment and support rails and curbs as needed to provide 8" minimum flashing height. Remove and replace existing support rails or curbs that are deteriorated or that are not set on and secured to the deck. All curbs and supports to be at a height as required to provide 8" minimum flashing ht. Contractor will be responsible for duct work, gas line, electrical and all other disconnect and re-connect if required.
- Install new support rails or curbs attached to the deck under all equipment that is currently setting on pads or supports that sit on top of the existing roof. All new supports and rails must provide a finished flashing height of 8" minimum.
- Install all roof membranes, flashings, insulation, tapered insulation, adhesives, fasteners, walkway pads and all other roofing components and accessories as specified.
- Install treated lumber, flashings and metal details as required to provide substrate anchoring and elevations need to accommodate details as specified and as indicated on the drawings.
- 10. Do not install any flashings, termination bars, surface mounted counter flashings or sealants above existing through wall counter flashings or where weep holes exist. Open any weep holes that are sealed shut.
- 11. Remove and re-locate conduits/pipes where they interfere with new flashings or counter flashing heights. Remount electrical lines, conduits, junction boxes, electrical outlets, light fixtures, cabling, and similar items on mounts that do not penetrate the roof membrane, flashing or sheet metal components and that are to be raised as necessary to accommodate new insulation thickness.
- 12. Remount all gas lines, piping, duct work and similar items on acceptable prefabricated supports and that are to be raised as necessary to accommodate new insulation thickness as specified. Support spacing to be as specified.
- 13. Maintain condensate drain lines from equipment in operational condition at all times during project. Install new condensate lines from units to drains where they are damaged or do not exist.
- 14. Install slip metal counter flashings on curbs where equipment does not need to
- 15. Install new sheet metal components according to the Specifications and Drawings or as needed to properly terminate the roof system in accordance with referenced standards or manufacturer's requirements, whichever is more stringent.
- When new sheet metal covers masonry components below, ensure that at least one full brick is covered unless specified or drawn otherwise.
- 17. When existing sheet metal fascia components have been removed, install sheet metal extensions as required to cover all area previously covered as a minimum.
- 18. Remove and replace sealant on vertical precast wall joints and apply siloxane coating to interior of precast concrete walls.
- 19. Install walk pads from roof entrances to and around all serviceable equipment as
- 20. Provide warrantees as specified



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CHARDON SCHOOLS 2021 ROOF PROJECT Project # BB201216

Legend: = Roof Areas Included in Roof Replacement

Scope



=CODED NOTES

Project Contacts

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Bill Bare **Adam Bradley Enterprises Inc.** Mobile: 440-622-2246 Email: roofpro@sbcglobal.net

Steve Kofol **Chardon Local Schools** Email: steven.kofol@chardonschools.org

GENERAL NOTES FOR ALL ROOF SYSTEM TYPES:

- SYSTEM TYPES INDICATED ON EACH ROOF AREA MAY NOT ACCURATELY REFLECT EXISTING CONDITIONS AND MAY BE SUBJECT TO CHANGE BASED ON ACTUAL
- FIELD CONDITIONS. 2. CONTRACTOR TO CONFIRM **DECK TYPES AND SLOPES BEFORE** PROCEEDING WITH INSTALLATION OF ANY SPECIFIC SYSTEM TYPE ON EACH ROOF AREA.

Location, size, number, and types of penetrations and equipment have been defined schematically and are approximate. Contractor shall be responsible for completing a detailed inventory of all to establish precise size, location, number and types. Any previously undefined conditions shall be brought to the immediate attention of the

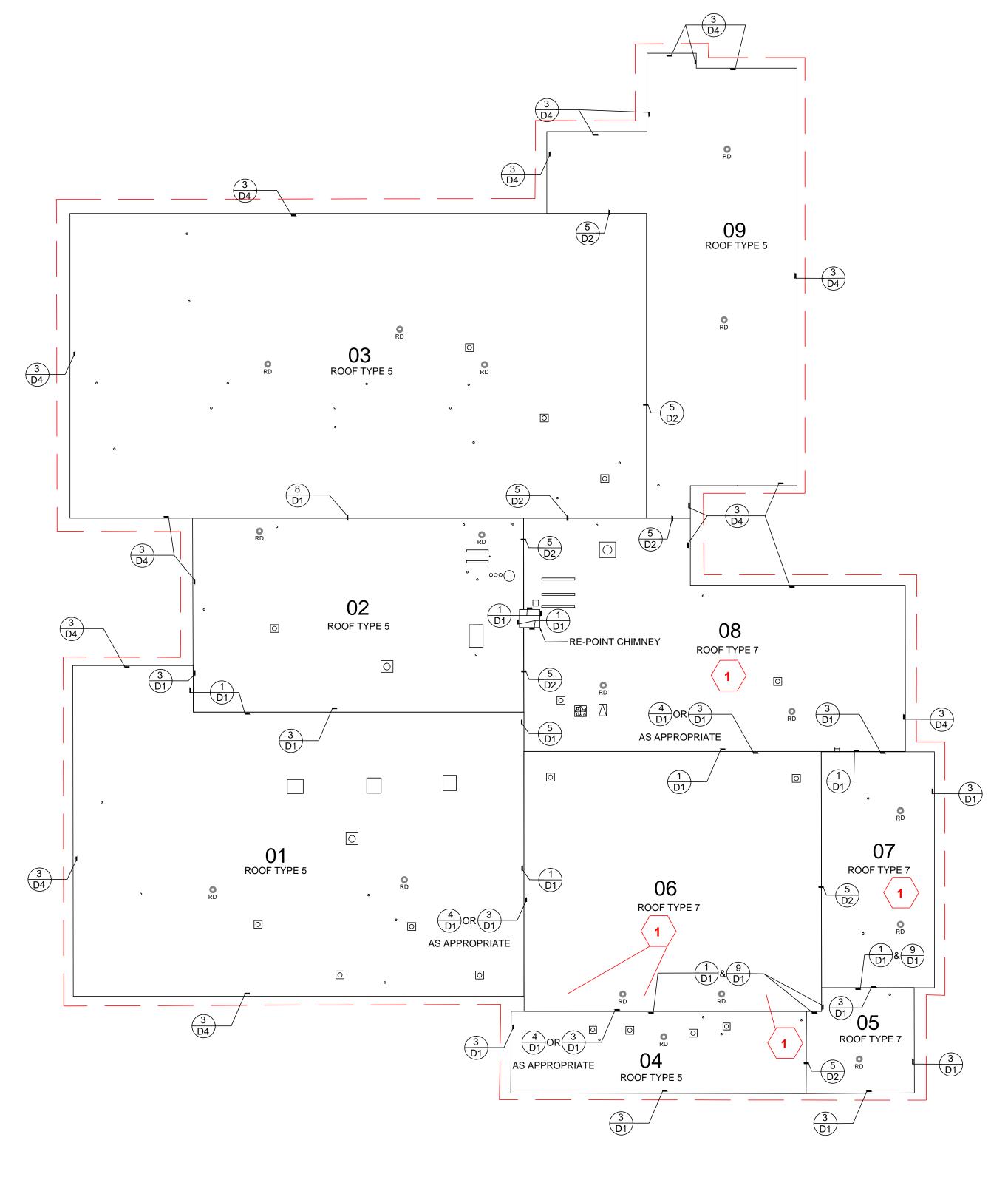
Drawing Title:

Consultant.

ROOF PLAN HIGH SCHOOL

NTS 3.29.21

A2.1



ROOF PLAN CODED NOTES:

1

Install tapered saddles/crickets as required to provide positive drainage. Other areas that may require saddles/crickets may not be noted and are to be determined by field conditions and appropriate saddles/crickets are to be installed.

ROOF PLAN SCOPE OF WORK:

Base Bid:

- 1. Air intakes must be shut down whenever dust, fumes or odors are possible. Coordinate shut downs with Facilities Management
- 2. On brick masonry unit (BMU) walls, install new through wall receiver and counterflashing where existing through wall flashing exists and where new flashing heights would be less than 8" below the existing through wall flashing. Reinstall salvage BMU's or replace to match in kind.
- 3. Re-Point chimney masonry joints that are cracked or open. Replace cracked or damaged BMU's)
- 4. Repair concrete deck and repair or replace metal deck and gypsum decking and form boards as required.
- Raise all mechanical equipment and support rails and curbs as needed to provide 8" minimum flashing height. Remove and replace existing support rails or curbs that are deteriorated or that are not set on and secured to the deck. All curbs and supports to be at a height as required to provide 8" minimum flashing ht. Contractor will be responsible for duct work, gas line, electrical and all other disconnect and re-connect if required.
- 7. Install new support rails or curbs attached to the deck under all equipment that is currently setting on pads or supports that sit on top of the existing roof. All new supports and rails must provide a finished flashing height of 8" minimum.
- 8. Install all roof membranes, flashings, insulation, tapered insulation, adhesives, fasteners, walkway pads and all other roofing components and accessories as specified.
- 9. Install treated lumber, flashings and metal details as required to provide substrate anchoring and elevations need to accommodate details as specified and as indicated on the drawings.
- 10. Do not install any flashings, termination bars, surface mounted counter flashings or sealants above existing through wall counter flashings or where weep holes exist. Open any weep holes that are sealed shut.
- 11. Remove and re-locate conduits/pipes where they interfere with new flashings or counter flashing heights. Remount electrical lines, conduits, junction boxes, electrical outlets, light fixtures, cabling, and similar items on mounts that do not penetrate the roof membrane, flashing or sheet metal components and that are to be raised as necessary to accommodate new insulation thickness.
- 12. Remount all gas lines, piping, duct work and similar items on acceptable prefabricated supports and that are to be raised as necessary to accommodate new insulation thickness as specified. Support spacing to be as specified.
- 13. Maintain condensate drain lines from equipment in operational condition at all times during project. Install new condensate lines from units to drains where they are damaged or do not exist.
- 14. Install slip metal counter flashings on curbs where equipment does not need to be raised.
- 15. Install new sheet metal components according to the Specifications and Drawings or as needed to properly terminate the roof system in accordance with referenced standards or manufacturer's requirements, whichever is more stringent
- 16. When new sheet metal covers masonry components below, ensure that at least one full brick is covered unless specified or drawn otherwise.
- 17. When existing sheet metal fascia components have been removed, install sheet metal extensions as required to cover all area previously covered as a minimum.
- 18. Remove and replace sealant on vertical precast wall joints and apply siloxane coating to interior of precast concrete walls.
- 19. Install walk pads from roof entrances to and around all serviceable equipment as specified.
- 20. Provide warrantees as specified



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CHARDON SCHOOLS 2021 ROOF PROJECT Project # BB201216

Legend:

= Roof Areas
Included in
Roof
Replacement
Scope



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Bill Bare
Adam Bradley Enterprises Inc.
Mobile: 440-622-2246

Steve Kofol
Chardon Local Schools

GENERAL NOTES FOR ALL ROOF

SYSTEM TYPES:

Email: steven.kofol@chardonschools.org

1. SYSTEM TYPES INDICATED ON EACH ROOF AREA MAY NOT ACCURATELY REFLECT EXISTING CONDITIONS AND MAY BE SUBJECT TO CHANGE BASED ON ACTUAL

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2. CONTRACTOR TO CONFIRM DECK TYPES AND SLOPES BEFORE PROCEEDING WITH INSTALLATION OF ANY SPECIFIC SYSTEM TYPE ON EACH ROOF AREA.

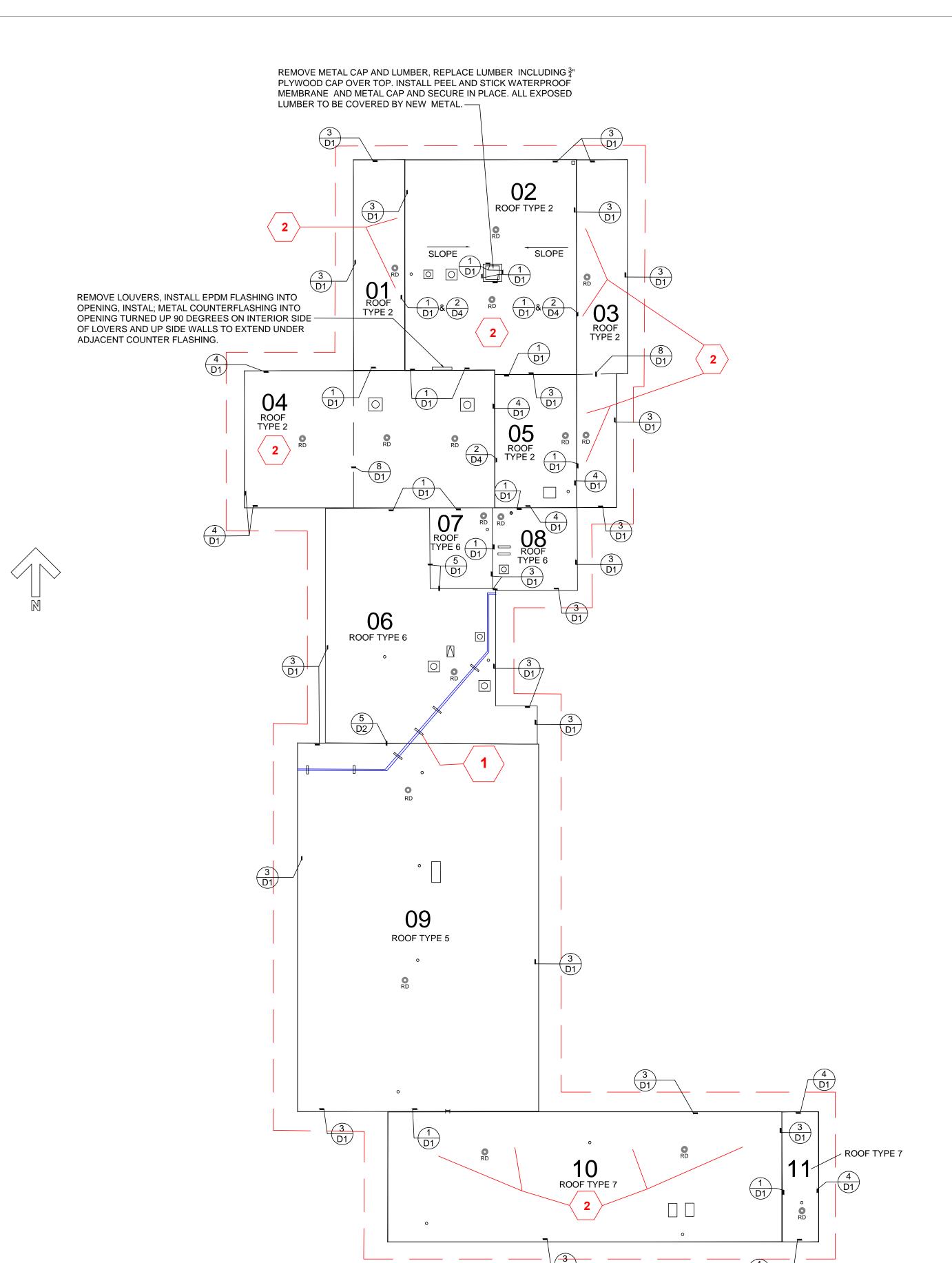
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Drawing Title:

ROOF PLAN MIDDLE SCHOOL

Scale NTS

Date A2.2
3.29.21



ROOF PLAN SCOPE OF WORK:

Base Bid:

- 1. Air intakes must be shut down whenever dust, fumes or odors are possible. Coordinate shut downs with Facilities Management
- 2. On brick masonry unit (BMU) walls, install new through wall receiver and counterflashing where existing through wall flashing exists and where new flashing heights would be less than 8" below the existing through wall flashing. Reinstall salvage BMU's or replace to match in kind.
- 3. Repair concrete deck and repair or replace metal deck and gypsum decking and form boards as required.
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- 7. Install new support rails or curbs attached to the deck under all equipment that is currently setting on pads or supports that sit on top of the existing roof. All new supports and rails must provide a finished flashing height of 8" minimum.
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- 17. When existing sheet metal fascia components have been removed, install sheet metal extensions as required to cover all area previously covered as a minimum.
- 18. Remove and replace sealant on vertical precast wall joints and apply siloxane coating to interior of precast concrete walls.
- 19. Install walk pads from roof entrances to and around all serviceable equipment as specified.
- 20. Provide warrantees as specified

ROOF PLAN CODED NOTES:



Raise pipes/conduits & install specified pre-manufactured supports. See detail sheet D5



Install tapered saddles/crickets as required to provide positive drainage. Other areas that may require saddles/crickets may not be noted and are to be determined by field conditions and appropriate saddles/crickets are to be installed.

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CHARDON SCHOOLS 2021 ROOF PROJECT Project # BB201216

Legend:

= Roof Areas
Included in
Roof
Replacement
Scope

Project Contacts

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OF ANY SPECIFIC SYSTEM TYPE ON

EACH ROOF AREA.

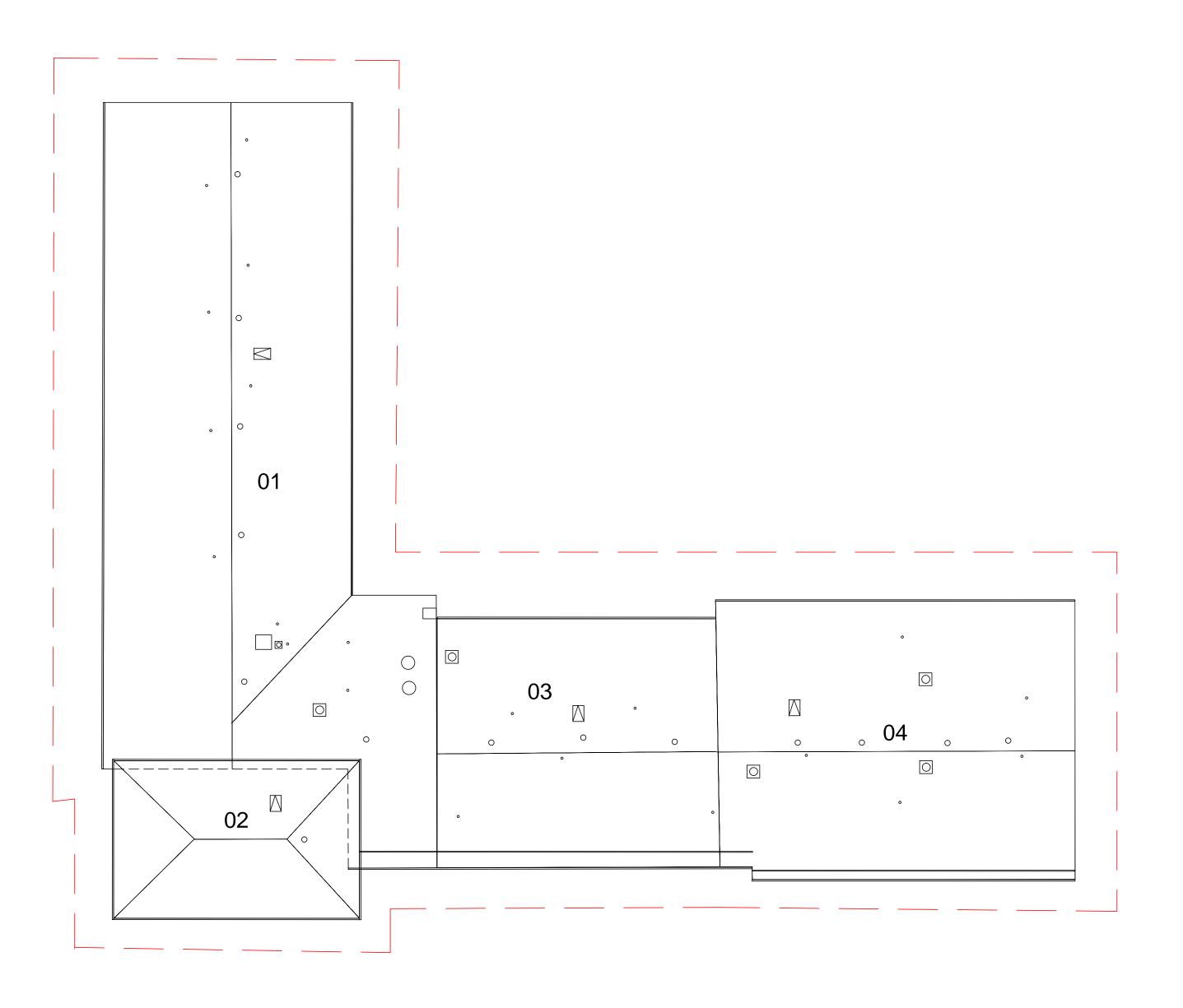
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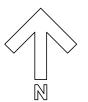
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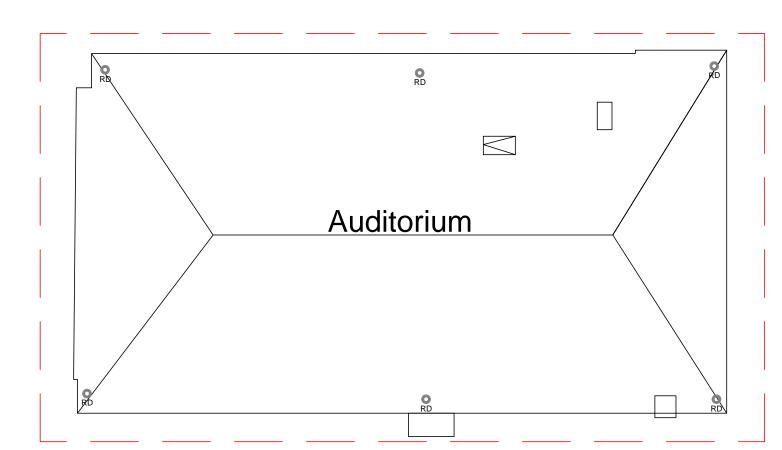
ROOF PLAN MUNSON

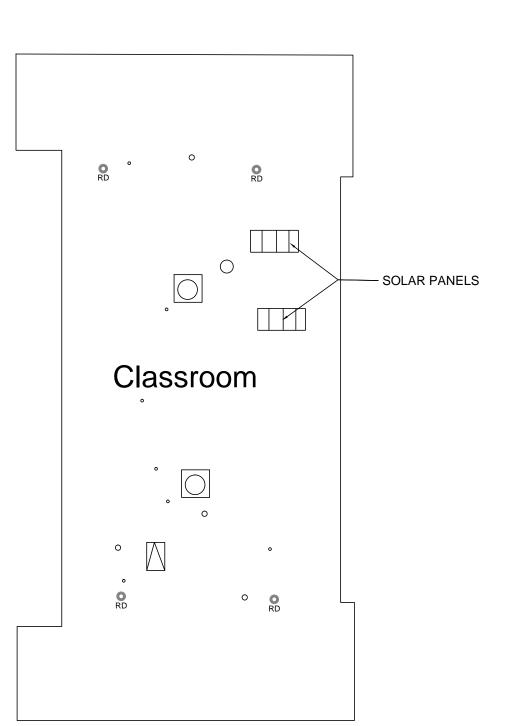
Scale NTS Date 3.29.21

A2.3









ROOF PLAN SCOPE OF WORK:

Park Elementary Auditorium Roof Repair Scope;.

- 1. Cut out and seal all water blisters in existing Modified Bitumen roofing membrane and patches.
- 2. Install proper tie-ins of Modified Bitumen to existing roof system.
- 3. Cut back Modified bitumen applications that extend from base flashing onto metal coping and area dividers. Install separate terminations between the components.
- 3.1. Fasten top edge of flashing below inner lip of coping.
- 3.2. Install slip metal flashing into place as using 0.040 aluminum with hemmed lower edge and fastened through the coping face with fasteners through neoprene washers.
- 3.3. Clean all metal coping joint surfaces and install self adhered 6" EPDM strips over all metal coping joints. Do not extend extend down outer face of coping.
- 4. Install 250 linear feet of base flashing seam re-inforcement.
- 5. Install 250 linear feet of field seam reinforcement.

Maple St. Elementary Roof Repair Scope:

- Re-coat the ridge cap with new coating after proper surface preparation as required by the Manufacturer. Rust must be removed before painting.
- 1.1. Products to be: Zinc primer for all metal surfaces to be 2-part Benjamin Moore M01/M02 Inorganic Zinc Primer or equal. Paint to be Benjamin Moore M26 D.T.M. Alkyd Gloss Enamel or equal.
- 1.2. Sherwin Williams, Tnemec or Duron primers and paints for metal surfaces may also be used according to Manufacturer recommendations and requirements.
- 2. Inspect fasteners for any missing or loose fasteners. All fasteners to be install through neoprene washers. Replace an estimated 1,000 fasteners as required.
- 3. Clear debris from gutters.
- 4. Check adhesion of EPDM flashing boots. Reseal as required.
- 5. Remove asphalt repair materials from penetration flashings. Apply a fluid applied flashing with reinforcement after proper surface prep. (Roof section 01).
- 6. Re-paint the area divider cap on roof area 03 after surface preparation and rust removal as specified in paragraph 1 above.
- 7. Replace damaged section of ridge cap on in kind on roof section 04.



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CHARDON SCHOOLS 2021 ROOF PROJECT Project # BB201216

Legend:

= Roof Areas
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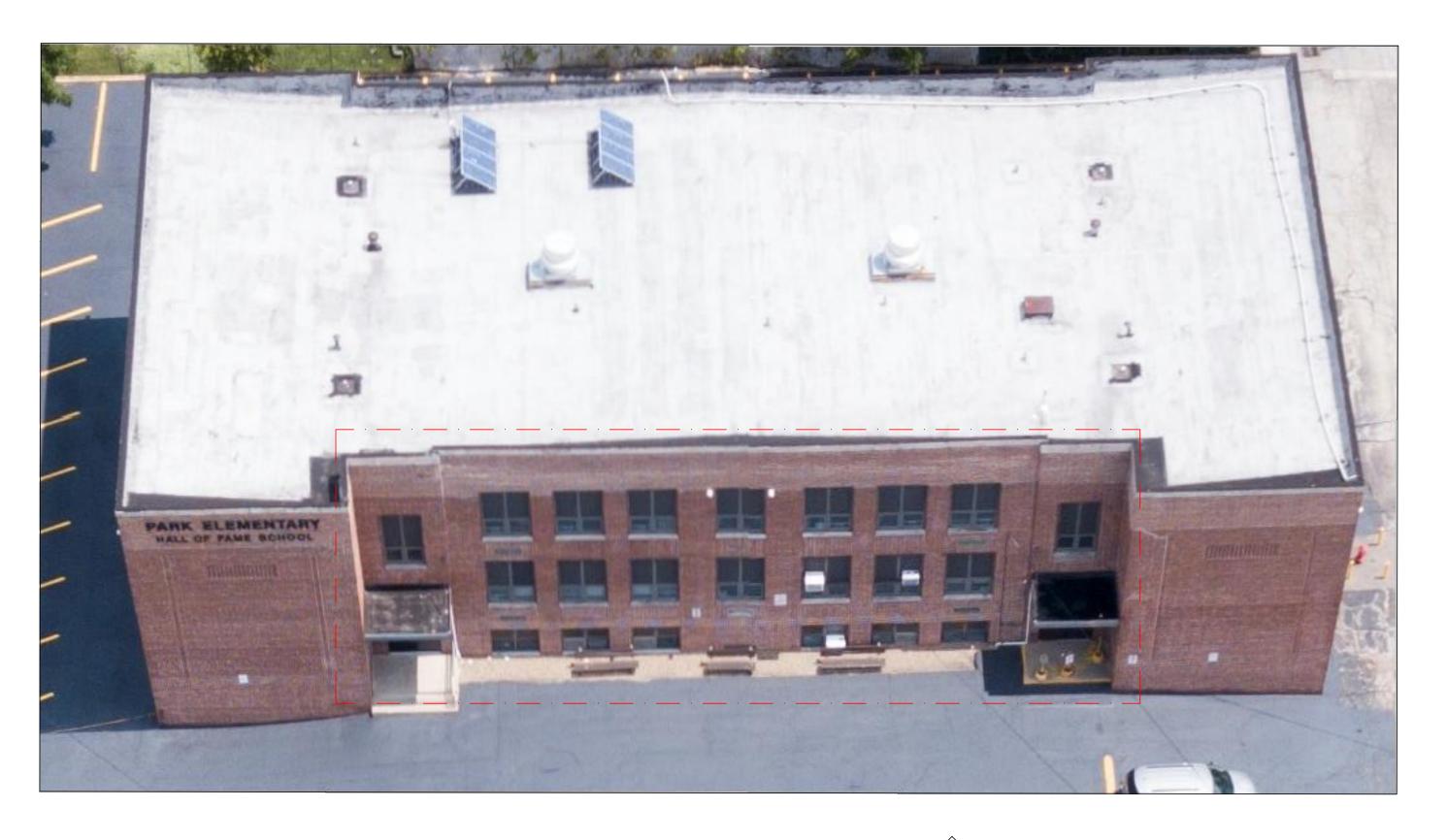
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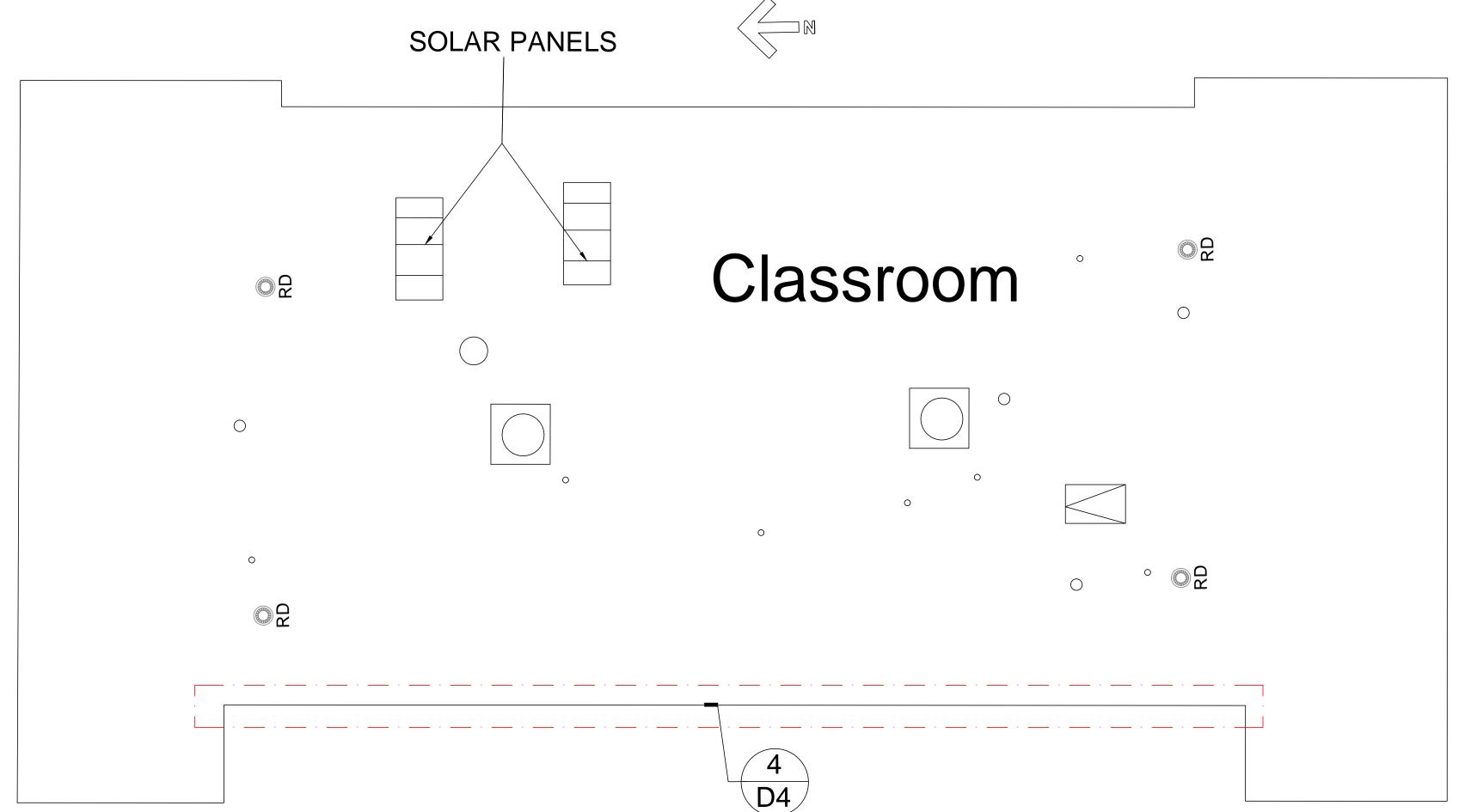
Drawing Title:

ROOF PLAN PARK AUDITORIUM & MAPLE ST. ELEMENTARY

Scale NTS Date 3.29.21

A2.4





MASONRY PLAN SCOPE OF WORK:

Base Bid:

- 1. Remove existing parapet wall down to roof deck level.
- 2. Remove outer wythe of brick down to third floor window heads.
- 3. Remove masonry above second floor windows. Shore as required to prevent collapse.
- 4. Replace lintels and install through wall counterflashing, flashing and weep hole system above second and third floor windows as specified.
- 5. Remove corrosion and pack rust from exposed steel elements that are not replaced and clean, prime and paint hose elements.
- 6. Install new brick brick (BMU's) above second floor windows and above third floor window head level.
 - 7. Install new BMU and CMU above deck level to match existing height.
 - Install new coping and through wall flashing at top of wall.
 - Install new flashings compatible with existing roof system on backside of parapet wall.
- 10. Rake out and re-point 15% of existing mortar joints below third floor windows.
- 11. Remove and replace 25 bricks that exhibits:
 - .1. Chipped corners, cracks, voids or holes, or that has spalled.
- 11.2. Bearing failure.
- 11.3. Loose bricks.
- 11.4. Displaced masonry that is out of plane across bricks.
- 12. Remove and replace sealant around all window perimeters.
- 9. Apply water repellant to all masonry.

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CHARDON SCHOOLS 2021 ROOF PROJECT Project # BB201216

Legend:

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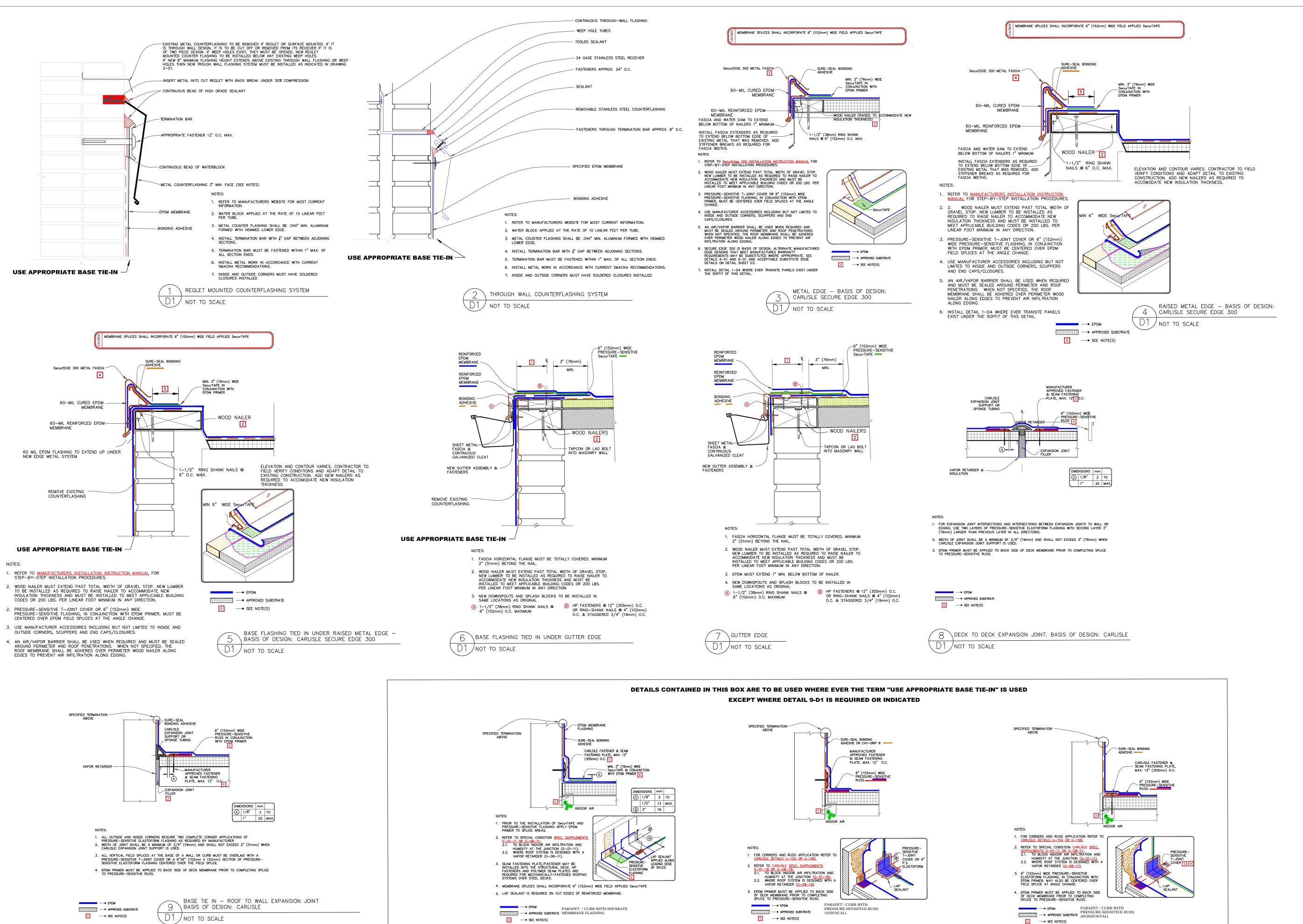
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Drawing Title:

MASONRY PLAN PARK ELEMENTARY CLASSROOM

Scale NTS Date 3.29.21

A2.5



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GENERAL NOTES FOR ALL DETAILS:

1. DETAILS USE CARLISLE

STANDARDS AS THE BASIS OF 2. ALL EDGE METAL COMPONENTS SHALL COMPLY WITH THE LATEST VERSION OF ANSI/SPRI/FM 4335 ES-1 FOR WIND UPLIFT RESISTANCE 3. PRIMER: WHERE NOT SHOWN OR INDICATED ON DETAIL DRAWINGS, REFER TO MATERIAL PRODUCT DATA SHEETS FOR PRIMER APPLICATION REQUIREMENTS. 4. FLASHING PLIES MUST EXTEND VERTICALLY A MINIMUM OF 8" FROM ROOF SURFACE. 5. THE JOINTS IN THE SHEET METAL COUNTERFLASHING SHOULD NOT BE SOLDERED EXCEPT AT INSIDE AND OUTSIDE CORNERS.

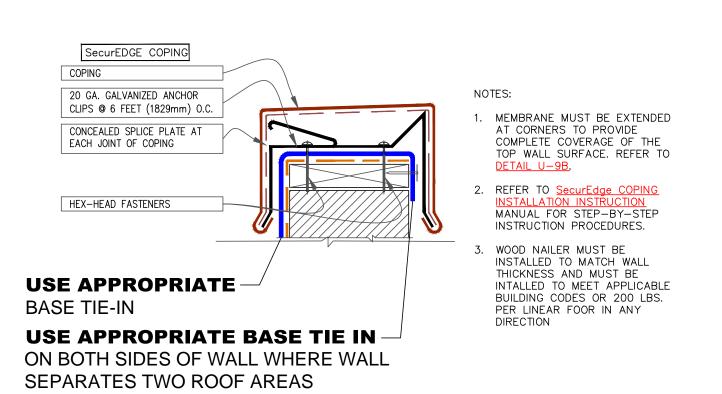
Drawing Title:

OVER WEEP HOLES.

Detail Sheet 1

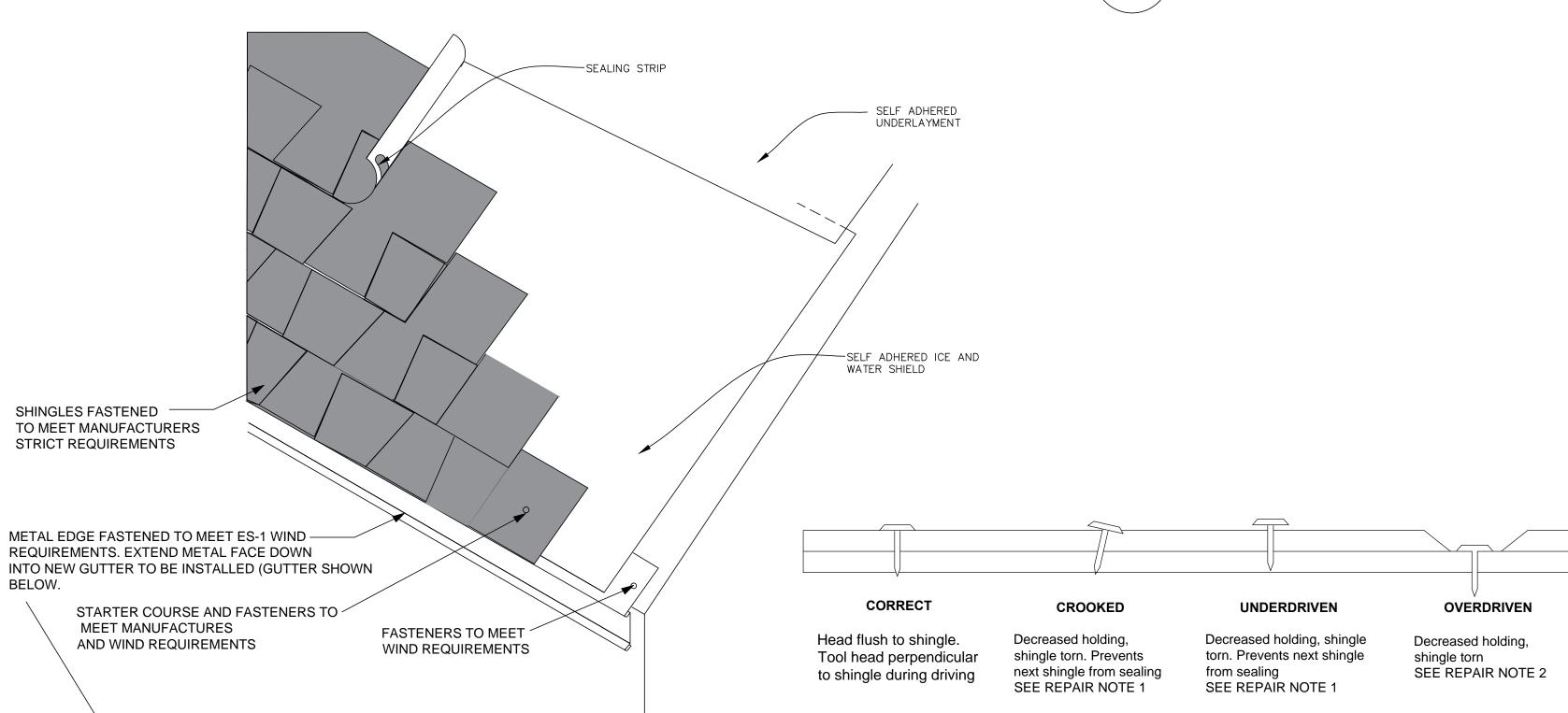
6. DO NOT OBSTRUCT OR FLASH

Scale	Sheet
NTS	54
Date	D1
3.29.21	



1 METAL COPING. BASIS OF DESIGN: CARLISLE
D2 NOT TO SCALE





REPAIR NOTE 1:

REPAIR NOTE 2:

ASPHALT MASTIC

FASTENERS

FLATTEN NAIL HEAD TO PREVENT INTERFERENCE WITH NEXT SHINGLE

While nailing is the required method for fastening shingles.

NAILS: 10mm Head 12 gauge, 30mm roofing nails.

Always nail through the fastener line.

DRIVE ANOTHER NAIL NEARBY. SEAL OVERDRIVEN NAIL WITH MANUFACTURERS APPROVED

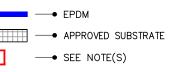
4 METAL EDGE AND GUTTER AT SHINGLE ROOF NOT TO SCALE

NEW GUTTER ASSEMBLY AND FASTENERS

-EXISTING SHEET METAL FLASHING _1-1/4" HOT DIPPED GAL. ROOF NAILS SURE-SEAL BONDING ---- ADHESIVE -.040" ALUMINUM SLIP FLASHING 3" MIN. GASKETED FASTENER 12"-FACE (SEE NOTES) O.C. MAX. -EPDM MEMBRANE FLASHING -MIN. 3" (76mm) WIDE SecurTAPE IN CONJUNCTION WITH CARLISLE FASTENER & SEAM FASTENING EPDM PRIMER 6 PLATE, MAX. 12" --||---- 1/8" (3mm) TO 3 4 (305mm) 0.C. 1" (25mm) MAX.

NOTES:

- 1. IF THE VERTICAL SPLICE ON THE CURB FLASHING IS NOT LOCATED AT THE CORNER, 6" (152mm) WIDE PRESSURE—SENSITIVE ELASTOFORM OR T—JOINT FLASHING, IN CONJUNCTION WITH EPDM PRIMER, MUST BE CENTERED OVER FIELD SPLICE AT ANGLE
- 2. LAP SEALANT IS REQUIRED ON CUT-EDGES OF REINFORCED
- 3. SEAM FASTENING PLATES/FASTENERS MAY BE INSTALLED INTO THE STRUCTURAL DECK.
- 4. WHEN SEAM FASTENING PLATES/FASTENERS ARE INSTALLED HORIZONTALLY, HP FASTENERS AND POLYMER SEAM PLATES ARE REQUIRED FOR MECHANICALLY—FASTENED ROOFING SYSTEMS OVER
- 5. WHEN MECHANICAL FASTENERS ARE USED TO PENETRATE THE METAL COUNTER—FLASHING, USE EPDM WASHERS, APPLY WATER CUT—OFF MASTIC UNDER THE COUNTER—FLASHING OR CAULK THE FASTENER HEADS.
- 6. MEMBRANE SPLICES SHALL INCORPORATE 6" (152mm) WIDE FIELD APPLIED SecurTAPE



SLIP METAL CURB FLASHING BASIS OF DESIGN: CARLISLE NOT TO SCALE

VERDRIVEN
Sed holding, torn
EPAIR NOTE 2

INSTALL ASPHALT SHINGLES IN

STRICT ACCORDANCE WITH

MANUFACTURERS

SPECIFICATIONS

'STARTER COURSE' OVER DRIP EDGE FLASHIN METAL EDGE FASTENED TO DECK TO MEET ES-1 REQUIREMENTS. FACE TO CONTINUE 1 BELOW WHERE EXISTING METAL ENDED. BOTTOM EDGE TO BE HOOKED ONTO CONTINUOUS CLEAT SHINGLE TO OVERHANG FLASHING BY .3937" (10 MM) EXISTING BRICK WALL WOOD DECK ATTACH CONTINUOUS CLEAT 12" O.C TO WALL METAL EDGE WITH CLEAT AT RAKE EDGE NOT TO SCALE - CURB TO CURB - COMPLETE OTHER SIDE WITH SAME DETAL AS 1. REFER TO MANUFACTURERS WEBSITE SHOWN AND ACCOUNTING FOR ELEVATION DIFFERENCES FOR MOST BETWEEN ROOF AREAS CURRENT INFORMATION. EXPANSION JOINT COVER 2. EXPANSION JOINT COVER INSTALLED (SEE NOTE #2) AND SECURED PER MANUFACTURER'S

FLANGE SET IN CONTINUOUS SEALANT

SUBSTRATE

VAPOR RETARDER &

INSULATION

NOTE #2)

GASKETED FASTENER 8" (203 mm) O.C. (SEE

- WOOD NAILER (SEE NOTE #3)

- RPF STRIP

SPECIFIED INSULATION

2" METAL PLATE WITH APPROVED FASTENER

- EPDM MEMBRANE

BONDING ADHESIVE

ROOF TO ROOF EXPANSION JOINT

NOT TO SCALE

AT 12" (305 mm) O.C. MAX. (SEE NOTE #3)

PRIMER



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www.adambradleyinc.com

INSTALL SELF ADHERED

RECOMMENDATIONS.

3. WOOD NAILER MUST BE INSTALLED TO

MEET APPLICABLE BUILDING CODES

MINIMUM IN ANY GIVEN DIRECTION.

4. BATTEN STRIP MAY BE USED IN LIEU

OF 2" METAL PLATES. REFER TO

MANUFACTURERS DETAILS FOR

SPECIFIC BASE TIE-IN INFORMATION, REQUIREMENTS, AND OPTIONS.

OR 200 LBS PER LINEAR FOOT

UNDERLAYMENT AS SPECIFIED

CONCEALED PART OF SHINGLE

CONTINUOUS BEAD OF MANUFACTURER APPR

SEALANT ON FLASHING, STARTER COURSE AN

CHARDON SCHOOLS 2021 ROOF PROJECT Project # BB201216

Project Contacts

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Steve Kofol Chardon Local Schools

Email: steven.kofol@chardonschools.org

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Drawing Title:

OVER WEEP HOLES.

Detail Sheet 2

INSIDE AND OUTSIDE CORNERS.

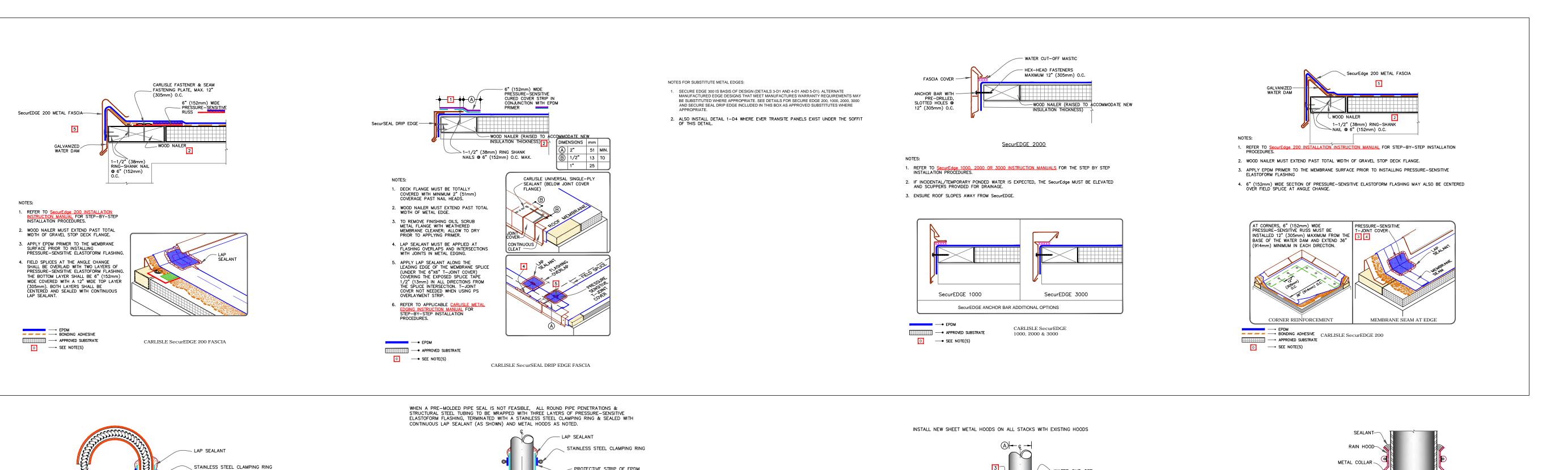
6. DO NOT OBSTRUCT OR FLASH

Scale Sheet NTS

Date D2
3.29.21



NOTE: an improperly adjusted nail gun can result in under driven nails that can cause a fish mouthed appearance and can prevent

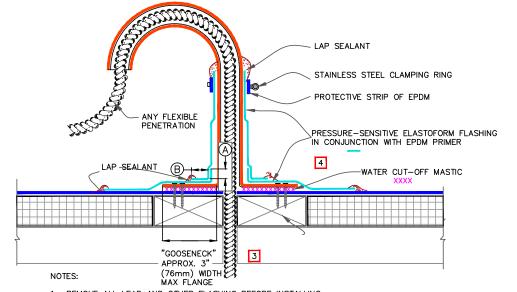


PENETRATION

ON ALL STACKS AND ROUND PENETRATIONS

— COLD PIPE

WITH EXISTING HOODS, INSTALL NEW FABRICATED HOODS THAT COVER TOP OF NEW FLASHINGS



- 1. REMOVE ALL LEAD AND OTHER FLASHING BEFORE INSTALLING FIELD—FABRICATED PIPE SEAL.
- 2. TEMPERATURE OF PENETRATION MUST NOT EXCEED 180°F
- WOOD NAILERS MUST EXTEND PAST TOTAL WIDTH OF METAL FLANGE.
- 4. EPDM PRIMER MUST BE APPLIED TO THE MATING SURFACES PRIOR TO APPLYING PRESSURE—SENSITIVE ELASTOFORM
- 5. IN COLDER TEMPERATURES, A HEAT GUN MUST BE USED

- APPROVED SUBSTRATE

O SEE NOTE(S)

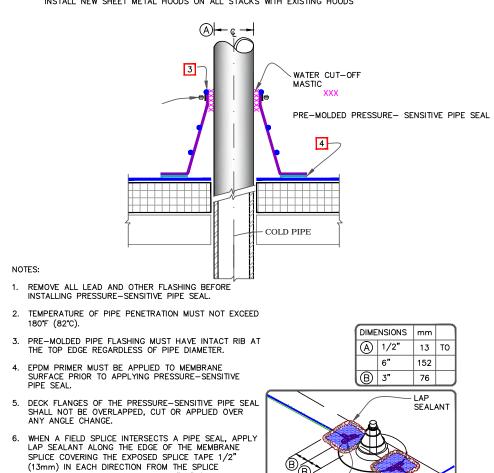
WHEN FORMING PRESSURE-SENSITIVE ELASTOFORM FLASHING. — EPDM

FABRICATED METAL HOOD -- LAP SEALANT COLD PIPE REMOVE ALL LEAD AND OTHER FLASHING BEFORE INSTALLING FIELD—FABRICATED FLASHING. 2. TEMPERATURE OF PIPE PENETRATION MUST NOT EXCEED 180°F (82°C). 3. PIPE FLASHING MAY BE USED WITH SQUARE OR RECTANGULAR STRUCTURAL TUBING WITH ROUNDED CORNERS. 4. EPDM PRIMER MUST BE APPLIED TO THE MATING SURFACES PRIOR TO

- IN COLDER TEMPERATURES, A HEAT GUN MUST BE USED WHEN FORMING PRESSURE—SENSITIVE FLASHING.
- 6. MEMBRANE SECUREMENT IS REQUIRED AROUND ALL ROUND PIPE PENETRATIONS GREATER THAN 18" (457mm) IN DIAMETER.

(A) 1/2" 13 MIN. (R) 1" 25 MIN.

Contractor shall inspect and extend all existing roof vents to ensure top of vent pipe is a minimum of 12" above the new finished roof surface. Replace O SEE NOTE(S) all rusted, broken or damaged vent stacks

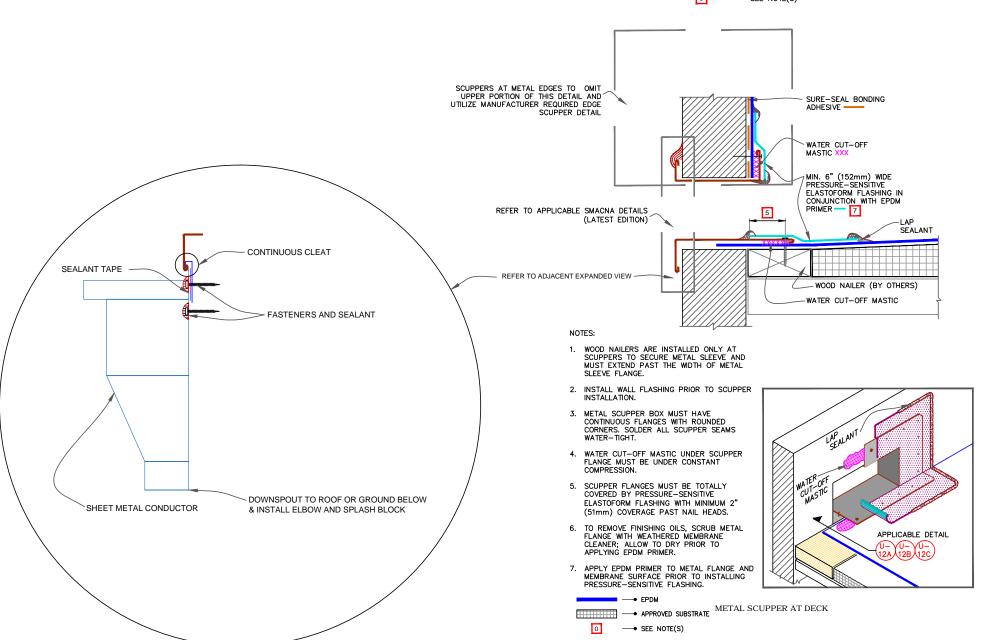


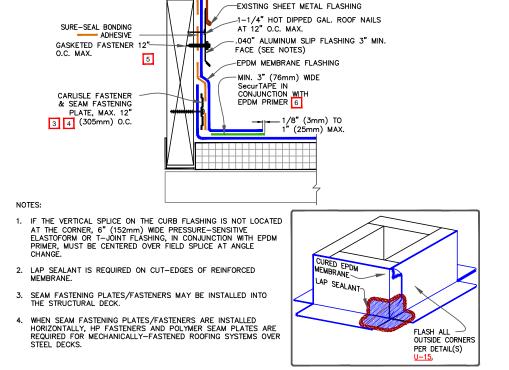
INTERSECTION & OVERLAY WITH A 6"X6" (152mm X 152mm) T-JOINT COVER. PRE-MOLDED PRESSURE-SENSITIVE

STAINLESS STEEL CLAMPING RING -STAINLESS STEEL CLAMPING RING PRESSURE-SENSITIVE FLASHING IN CONJUNCTION WITH EPDM PRIMER 1. REMOVE ALL LEAD AND OTHER FLASHING BEFORE INSTALLING FIELD FABRICATED PIPE SEAL. 2. TEMPERATURE OF METAL COLLAR MUST NOT EXCEED DIMENSIONS mm SURFACES PRIOR TO APPLYING PRESSURE-SENSITIVE (A) 1/2" 13 MIN. → EPDM. IN COLDER TEMPERATURES, A HEAT GUN MUST BE USED WHEN FORMING PRESSURE—SENSITIVE APPROVED LA PROVED LA PROVENCIA LA PROVED LA PROVENCIA LA PROVED LA PROVENCIA LA 0 → SEE NOTE(S)

FIELD FABRICATED HOT STACK

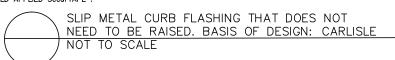
Contractor shall inspect and extend all existing roof vents to ensure top of vent pipe is a minimum of 12" above the new finished roof surface. Replace all rusted, broken or damaged vent stacks





WHEN MECHANICAL FASTENERS ARE USED TO PENETRATE THE METAL COUNTER-FLASHING, USE EPDM WASHERS, APPLY WATER CUT-OFF MASTIC UNDER THE COUNTER-FLASHING OR CAULK THE FASTENER HEADS.

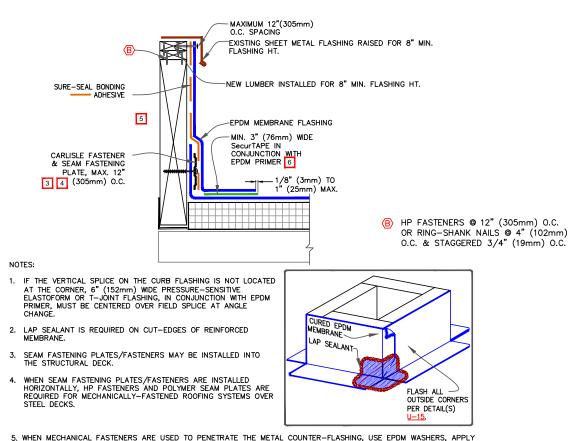
→ APPROVED SUBSTRATE NOT TO SCALE



—● EPDM

- APPROVED SUBSTRATE

○ SEE NOTE(S)



WHEN MECHANICAL FASTENERS ARE USED TO PENETRATE THE METAL COUNTER-FLASHING, USE EPDM WASHERS, APPLY WATER CUT-OFF MASTIC UNDER THE COUNTER-FLASHING OR CAULK THE FASTENER HEADS.

O SEE NOTE(S)

6. MEMBRANE SPLICES SHALL INCORPORATE 6" (152mm) WIDE FIELD APPLIED SecurTAPE — EPDM - APPROVED SUBSTRATE

CURB FLASHING THAT NEED TO BE RAISED TO ACHIEVE 8" MINIMUM FLASHING HEIGHT. BASIS OF DESIGN: CARLISLE

Adam Bradley

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CHARDON SCHOOLS 2021 ROOF PROJECT **Project # BB201216**

Project Contacts

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Bill Bare

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Steve Kofol **Chardon Local Schools** Email: steven.kofol@chardonschools.org

STANDARD DETAILS NOTES:

- 1. EDGE DETAILS SHOWN IN THE BOX ON THIS SHEET MAY BE SUBSTITUTED FOR EDGE DETAILS SHOWN ON SHEET D1 AS APPROPRIATE.
- 2. DETAILS ON THIS SHEET ARE GENERAL IN NATURE AND ARE NOT NECESSARILY CALLED OUT ON
- ROOF PLANS. 3. DETAILS ON THIS SHEET ARE TO FOLLOW ALL MANUFACTURER INSTRUCTIONS AND ARE TO BE USED AT ALL APPROPRIATE LOCATIONS AS DEPICTED AND DESCRIBED AND THAT ARE
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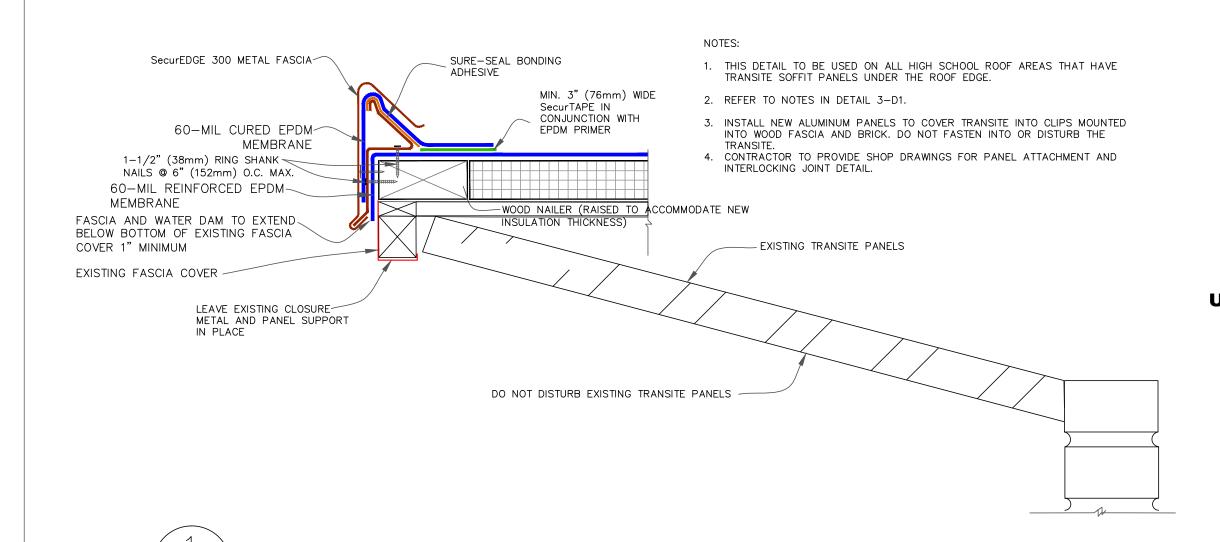
5. THE JOINTS IN THE SHEET METAL COUNTERFLASHING SHOULD NOT BE SOLDERED EXCEPT AT INSIDE AND OUTSIDE CORNERS. 6. DO NOT OBSTRUCT OR FLASH OVER WEEP HOLES.

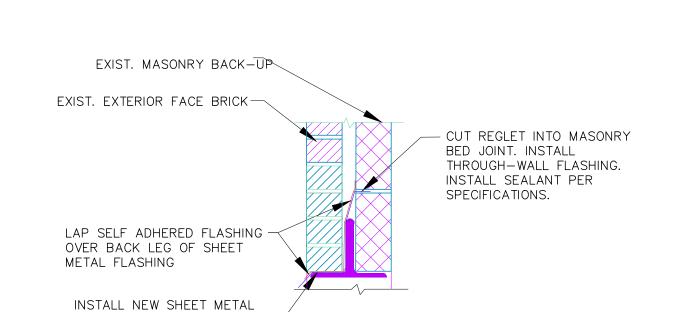
Drawing Title:

Detail Sheet 3

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Date 3.29.21	D3	

MEMBRANE SPLICES SHALL INCORPORATE 6" (152mm) WIDE FIELD APPLIED SecurTAPE





TRANSITE PANEL RECOVER

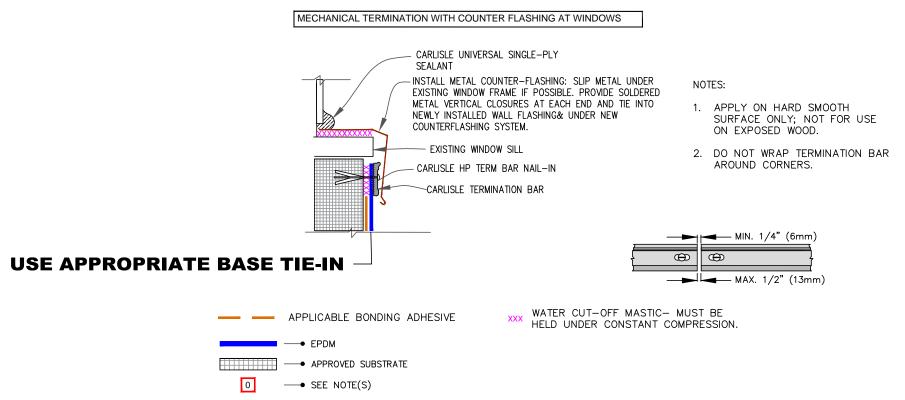
NOT TO SCALE



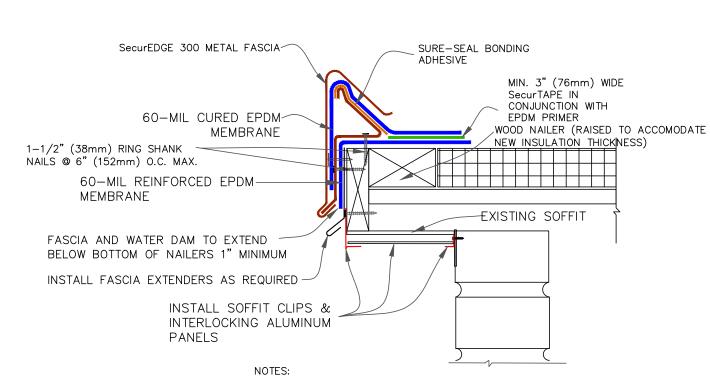
FLASHING IN AREA OF LINTEL-

REPLACEMENT. PROVIDE END

DAMS AT DISCONTINUOUS



2 FLASHINGS/CONTERFLASHING UNDER WINDOWS
D4 NOT TO SCALE



1. REFER TO NOTES IN DETAIL 3-D1.

 INSTALL NEW ALUMINUM PANELS INTO CLIPS MOUNTED INTO WOOD FASCIA AND BRICK. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR PANEL ATTACHMENT AND INTERLOCKING JOINT DETAIL.

NEW FASCIA & SOFFIT PANEL CLIP

NOT TO SCALE

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Gates Mills, Ohio, 44040
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CHARDON SCHOOLS 2021 ROOF PROJECT Project # BB201216

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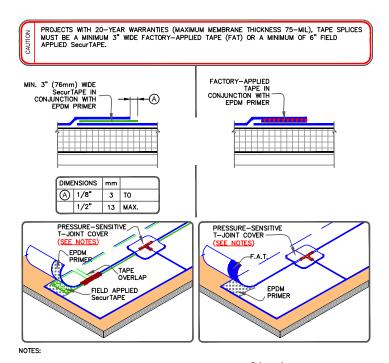
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OVER WEEP HOLES. Drawing Title:

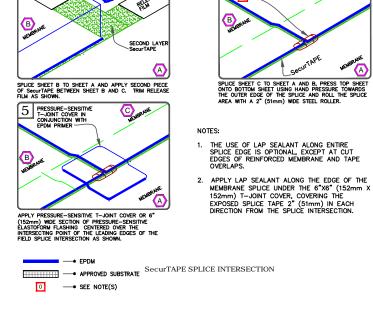
Detail Sheet 4

METAL COUNTERFLASHING SHOULD NOT BE SOLDERED EXCEPT AT INSIDE AND OUTSIDE CORNERS. 6. DO NOT OBSTRUCT OR FLASH

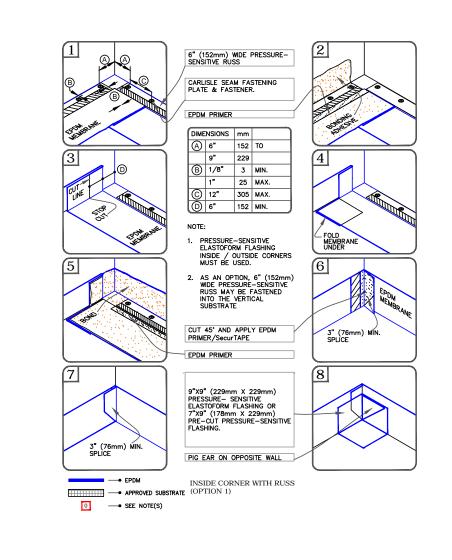
Scale NTS	Sheet	
Date 29 21	D4	

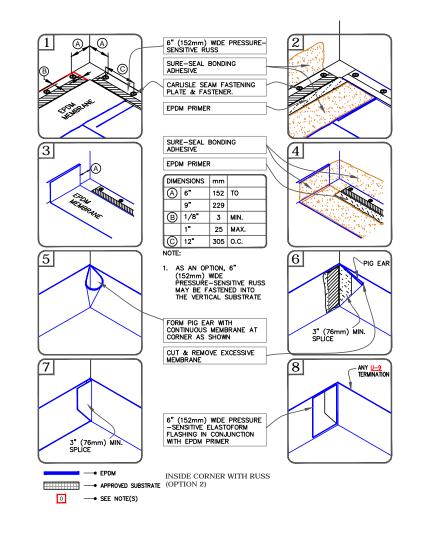


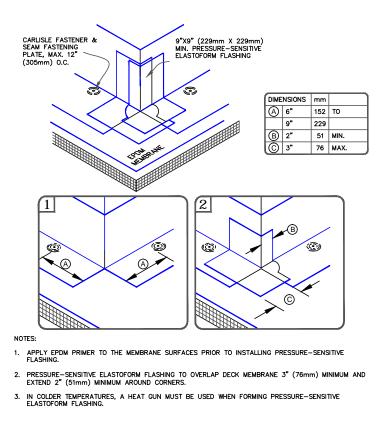
- FIELD APPLIED SECURTAPE IS TO BE OVERLAPPED A MINIMUM OF 1" (25mm) AT THE ENDS OF EACH CUT PIECE. APPLY LAP SEALANT AT TAPE OVERLAPS 2" (51mm) IN ALL DIRECTIONS AS SHOWN.
 APPLY LAP SEALANT ALONG THE LEADING EDGE OF THE MEMBRANE SPLICE UNDER THE 6"X6" (152mm X 152mm) T-JOINT COVER, COVERING THE EXPOSED SPLICE TAPE 2" (51mm) IN ALL DIRECTIONS FROM THE SPLICE INTERSECTION.
- 6" (152mm) WIDE PRESSURE—SENSITIVE ELASTOFORM FLASHING, IN CONJUNCTION WITH EPDM PRIMER, MAY ALSO BE CENTERED OVER THE INTERSECTING POINT OF THE LEADING EDGES OF THE FIELD SPLICE INTERSECTION.
- LAP SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED EPDM MEMBRANE.
- PPDM
 PPROVED SUBSTRATE
 PPDM MEMBRANE SPLICES
 SEE NOTE(S)



LAP SEALANT APPLIED MEMORY C

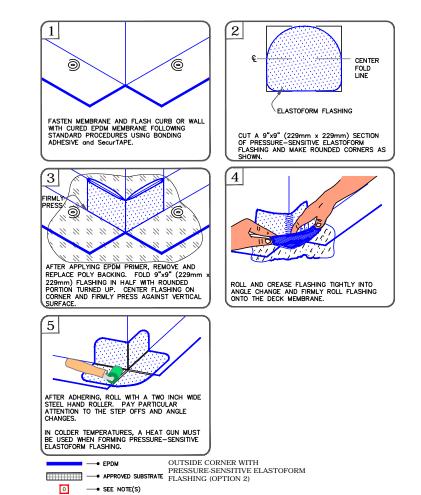






OUTSIDE CORNER WITH
PRESSURE-SENSITIVE ELASTOFORM
FLASHING (OPTION 1)

SEE NOTE(S)



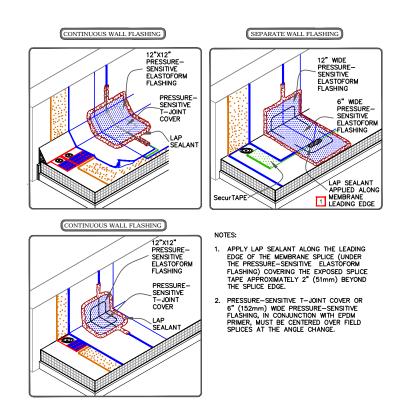
NOTES:

1. CONTINUOUS COUNTER FLASHING REQUIRED TO BE INSTALLED ACCORDING TO DETAIL 1—D1.

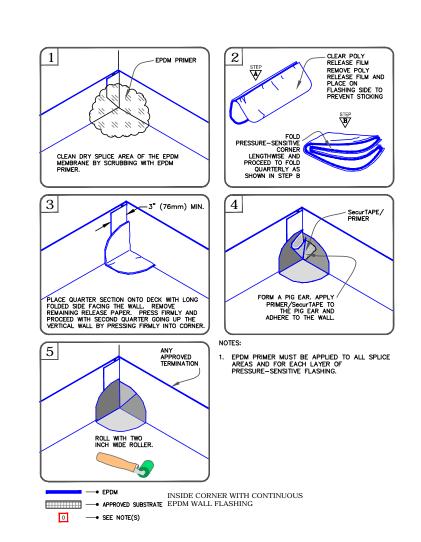
2. VERTICAL JOINTS IN THE PRE-CAST PANEL AS WELL AS ALL GAPS AT THE JUNCTION OF THE TILT—UP PANEL AND ROOF DECK MUST BE FULLY SEALED TO PREVENT AIR INFILITRATION.

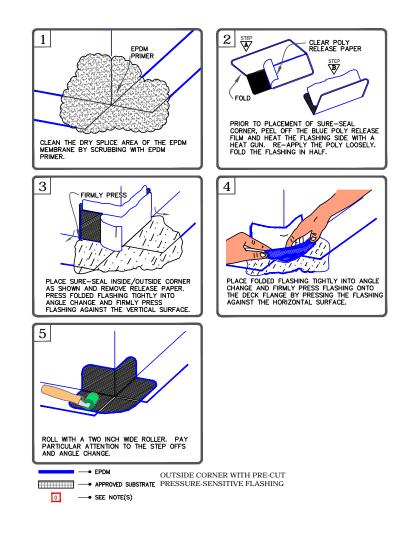
3. APPLY ON HARD SMOOTH SURFACE ONLY.

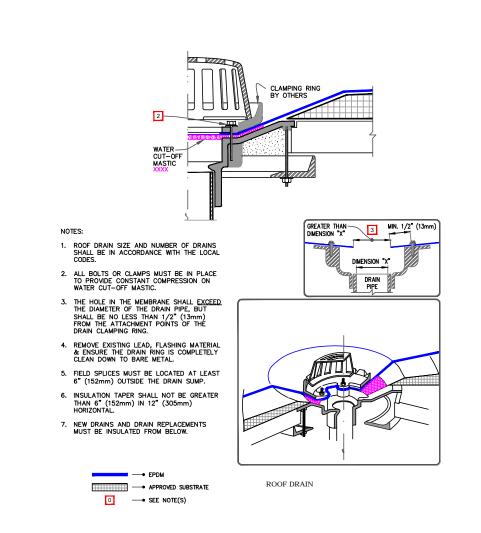
4. THIS DETAIL MUST BE USED FOR ANY PROVECT REGARDLESS OF WARRANTY.

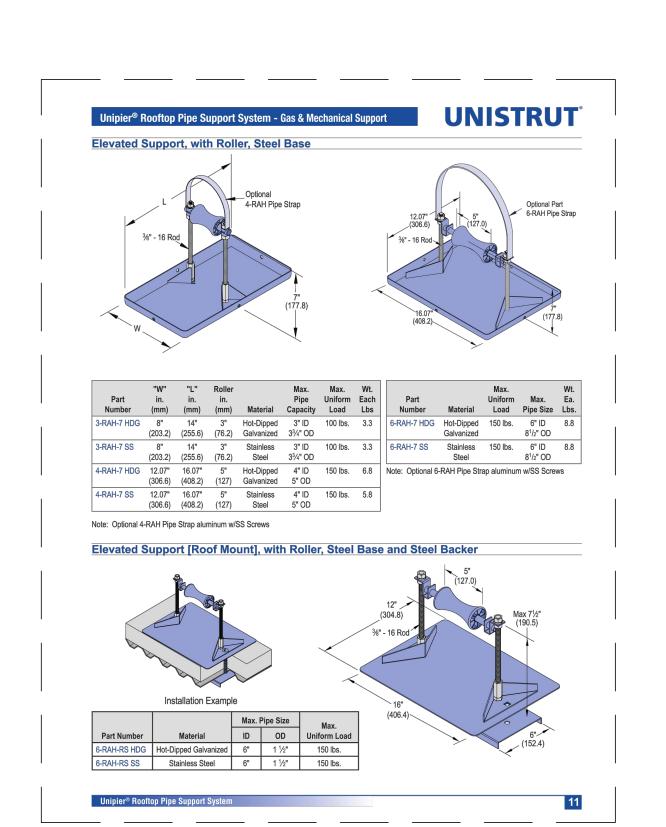


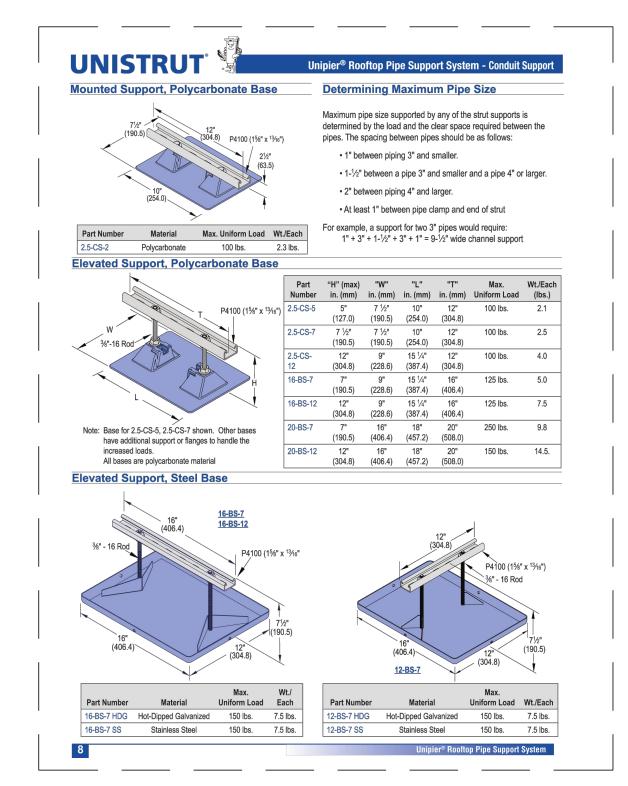












NEC Table 352.30 indicates max. PVC conduit support spacing as follows:

1/2" 1" conduit 3 ft. o.c.

1 1/4" 2" conduit 5 ft. o.c.

2 1/2" 3" conduit 6 ft. o.c.

Expansion fittings are required to accommodate expansion expected for temp. change and conduit length

3 ½" 5" conduit 7 ft. o.c.

6" conduit 8 ft. o.c.

NEC Table 352.44 states that the coefficient of expansion for PVC conduit is 3.38 x 0.00001 inches per inch/degree Fahrenheit (temp. change), which is .04056 inches per ft. for a 100 degree temp. range and 4.06 inches for a 100 ft. conduit length).

6. DO NO

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CHARDON SCHOOLS 2021 ROOF PROJECT Project # BB201216

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3. PRIMER: WHERE NOT SHOWN
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PRODUCT DATA SHEETS FOR

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4. FLASHING PLIES MUST
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EXTEND VERTICALLY A MINIMUM OF 8" FROM ROOF SURFACE.

5. THE JOINTS IN THE SHEET

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NOT BE SOLDERED EXCEPT AT
INSIDE AND OUTSIDE CORNERS.
6. DO NOT OBSTRUCT OR FLASH
OVER WEEP HOLES.

Drawing Title:

Detail Sheet 5

Scale Sheet NTS
Date D5