PROJECT NAME:

ROOF REPLACEMENT AT:

CHARLES BARNUM ELEMENTARY SCHOOL

68 BRIAR HILL ROAD.
GROTON, CONNECTICUT 06340

PROJECT LOCATION:



DRAWING LIST

	COVER SHEET
CODE:	
C1	CODE INFORMATION
ARCHITECTURAL:	
A1	ROOF PLAN
A2	ROOF DETAILS

ARCHITECT
SILVER PETRUCELLI & ASSOC.
3190 WHITNEY AVENUE, HAMDEN CT 06518
311 STATE STREET NEW LONDON, CT 06320
PHONE 203 230 9007 silverpetrucelli.com

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CONSTRUCTION DOCUMENT SUBMISSION: 03/02/2026
ISSUED FOR BIDDING: 05/11/2026

STATE PROJECT 059-0192 RR

CODE INFORMATION

DATE OF ORIGINAL CONSTRUCTION	1966
DATE OF ADDITION	1975

1. GROUP CLASSIFICATION (CHAPTER 3)

(PRIMARY)	E-EDUCATIONAL
(INCIDENTAL)	A3-ASSEMBLY

2. CONSTRUCTION TYPE (CHAPTER 6)

MINIMUM TYPE REQUIRED	2B
ACTUAL TYPE PROVIDED (EXISTING)	--
(NEW)	2B

3. BUILDING HEIGHT (CHAPTER 5)

ALLOWABLE HEIGHT (STORY/FEET)	3/75'-0"
ACTUAL HEIGHT (STORY/FEET)	1/50'-0"
(STORIES ABOVE GRADE)	2

4. BUILDING AREA (CHAPTER 5)

A) BUILDING AREA (FIRST)

EXISTING CONSTRUCTION	30,600	sq.ft.
NEW CONSTRUCTION	0	sq.ft.
TOTAL FLOOR	30,600	sq.ft.

B) BUILDING AREA (SECOND)

EXISTING CONSTRUCTION	0	sq.ft.
NEW CONSTRUCTION	0	sq.ft.
TOTAL FLOOR	0	sq.ft.
TOTAL (ALL FLOORS)	30,600	sq.ft.

5. AREA MODIFICATIONS TO TABLE 503 (FOR EACH SEPARATE BUILDING AS DEFINED BY FIRE WALLS AND/OR EXTERIOR WALLS)

NA

6. CASE 1 - SINGLE OCCUPANCY OR NONSEPARATED USES (302.3.1)
(ALLOWABLE AREA 506.4)
NA

7. CASE 2 - MIXED OCCUPANCY SEPARATED USES (302.3.2)
(ALLOWABLE AREA 506.4)
NA

8. FIRE-RESISTANCE RATED REQUIREMENTS FOR BUILDING ELEMENTS (TABLE 601, SEE CODE PLANS FOR SPECIFIC DESIGNATIONS)

1	STRUCTURAL FRAME: INCLUDING COLUMNS, GIRDERS, TRUSSES	0 Hr(s)
2	BEARING WALLS: EXTERIOR (TABLE 602)	0/1 Hr(s)
	INTERIOR	0 Hr(s)
3	NONBEARING WALLS & PARTITIONS EXTERIOR (TABLE 602)	0/1 Hr(s)
4	NONBEARING WALLS & PARTITIONS INTERIOR	0 Hr(s)
5	FLOOR CONSTRUCTION (INCLUDING SUPPORTING BEAMS & JOISTS)	0 Hr(s)
6	ROOF CONSTRUCTION (INCLUDING SUPPORTING BEAMS & JOISTS)	0 Hr(s)

9. OCCUPANCY LOAD

DESIGN TOTAL FOR BASEMENT	NA
TOTAL EXIT CAPACITY FOR BASEMENT	NA
DESIGN TOTAL FOR FIRST FLOOR	NA
TOTAL EXIT CAPACITY FOR FIRST FLOOR	NA
DESIGN TOTAL FOR BUILDING	NA
TOTAL EXIT CAPACITY FOR BUILDING	NA

10. MODIFICATIONS

	APPROVED	NOT APPROVED

11. ACCESSIBLE BUILDING

X	DESIGNATED
	NON DESIGNATED

12. MINIMUM PLUMBING FIXTURE COUNT (I.P.C. CHAPTER 4)
FOR EACH TYPE OF OCCUPANCY PER ENTIRE FACILITY

GROUP "A3" OCCUPANCY
(DESIGN LOAD = NA)

	REQUIRED	PROVIDED
W/C MALE	NA	NA
W/C FEMALE	NA	NA
LAVS	NA	NA
D/F	NA	NA
W/C UNISEX	NA	NA
LAVS UNISEX	NA	NA

GROUP "E" OCCUPANCY,
(DESIGN LOAD = NA)

W/C	NA	NA
LAVS	NA	NA
D/F	NA	NA

(TOTAL DESIGN LOAD FOR ENTIRE FACILITY = NA)

13. ENTIRE BUILDINGS SPRINKLERED

YES	NO
	X

14. THRESHOLD BUILDING CONDITIONS

YES	NO
	X

15. CODES TO WHICH THIS PROJECT WAS DESIGNED

State Building Code	2021 IBC CTSBC/2022 AMEND.
State Mechanical Code	2017 ICC
State Plumbing Code	2015 IPC
State Energy Conservation Code	2015 IECC
State Electrical Code	2020 NFPA 70
State Health Code	MOST CURRENT
OSHA	MOST CURRENT
Section 504	CURRENT
ADA	MOST CURRENT
ANSI 117.1	MOST CURRENT

16. BUILDING AREAS FOR GRANT CALCULATION (ENTIRE FACILITY)

(MEASURED TO INSIDE FACE OF EXTERIOR WALLS)

EXISTING UNRENOVATED CONSTRUCTION	0	SQ.FT.
EXISTING RENOVATED CONSTRUCTION	0	SQ.FT.
EXISTING BEING DEMOLISHED	0	SQ.FT.
TOTAL EXISTING CONSTRUCTION	30,600	SQ.FT.
TOTAL NEW CONSTRUCTION	0	SQ.FT.
TOTAL FACILITY	30,600	SQ.FT.

OPEN AREAS (NOT INCLUDED IN TOTAL FACILITY)

NA — NA SQ.FT.

17. TOTAL CONSTRUCTED BUILDING AREA (OUTSIDE FACE OF EXTERIOR WALLS INCLUDING OPEN AREAS ABOVE) — NA SQ.FT.

FIRE SAFETY CODE DATA:

1. CLASSIFICATION OF OCCUPANCY	EDUCATIONAL/ASSEMBLY	
2. MINIMUM CONSTRUCTION REQUIRED	2B	
ACTUAL CONSTRUCTION PROVIDED	2B	
3. NOTIFICATION / ALARMS (CFSC 2005, NFPA 72, NATIONAL FIRE ALARM CODE 2002)	YES X	NO
4. DETECTION (CFSC 2005, NFPA 72, NATIONAL FIRE ALARM CODE 2002)	YES X	NO
5. EXTINGUISHMENT REQUIREMENTS (NFPA 13, 2002)	YES X	NO

MEANS OF EGRESS

MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT IBC TABLE 1004.1.2

USE	FLOOR AREA IN S.F. PER OCCUPANT
1. CLASSROOMS	20 S.F. NET
2. SHOPS & VOCATIONAL	50 S.F. NET
3. ASSEMBLY	
WITHOUT FIXED SEATS	7 S.F. NET
TABLES AND CHAIRS	15 S.F. NET
4. PLATFORMS	15 S.F. NET
5. LIBRARY	
READING ROOMS	50 S.F. NET
STACK AREA	100 S.F. GROSS
6. LOCKER ROOMS	50 S.F. GROSS
7. MECHANICAL AREAS	300 S.F. GROSS
8. STORAGE	300 S.F. GROSS
9. BUSINESS AREAS	150 S.F. GROSS
10. Courtyards	15 S.F. NET

MAXIMUM LENGTH OF EXIT TRAVEL
1. I.B.C. TABLE 1015.1 — 250 feet

SYMBOL LEGEND

- X/XX - PLAN SECTION DETAIL OR ELEVATION- SHEET NUMBER
- SL - INDICATES SLOPE DIRECTION OF TAPERED INSULATION AT ¼" PER FOOT
- SL - TAPERED INSULATION CRICKET SLOPED @ ½" PER FOOT
- @X/X - INDICATES SLOPE DIRECTION & INDICATES EXISTING ROOF PITCH.
- NIC. - NOT IN CONTRACT SCOPE
- □□□ - WALKWAY PADS. SEE CONSTRUCTION NOTE #1
- ERD. - EXISTING ROOF DRAIN TO BE REMOVED. SEE DEMOLITION NOTES.
- NRD. - NEW ROOF DRAIN TO BE INSTALLED. SEE DETAIL A/A2
- OSC. - EMERGENCY OVERFLOW SCUPPER. SEE DETAIL B/A2
- CB. - COLLECTION BOX. SEE DETAIL J/A2
- DS. - METAL DOWNSPOUT. SEE CONSTRUCTION NOTE #2
- VS. - EXISTING VENT STACK. SEE DETAIL C/A2
- FU. - EXISTING ROOF TOP FAN UNIT. SEE DETAIL D/A2
- MU. - EXISTING MECHANICAL UNIT. SEE DETAIL E/A2
- RH. - ROOF HATCH. SEE DETAIL G&H/A2
- SK. - NEW SKYLIGHT. SEE DETAIL F/A2
- EC. - EXISTING CHIMNEY. SEE DETAIL K/A2
- ML. - METAL LADDER. SEE DETAIL N/A2

GENERAL NOTES

1. ALL FLAT ROOFS TO RECEIVE ¼" PER FOOT TAPERED RIGID INSULATION MINIMUM UNLESS OTHERWISE NOTED.
2. FIELD VERIFY ALL DIMENSIONS & PERFORM TEST CUTS AT EACH ROOF PRIOR TO THE BID.
3. ALL MATERIALS ARE NEW UNLESS OTHERWISE NOTED "EXISTING".
4. ALL WOOD BLOCKING, PLYWOOD & NAILERS TO BE PRESSURE TREATED. (P.T.)
5. ALL WOOD BLOCKING INDICATED IN DETAILS ARE TO BE ANCHORED TO THE EXISTING STRUCTURE.
6. ALL MEMBRANE FLASHING INDICATED IS TO EXTEND A MINIMUM OF 8". (VERTICAL OR HORIZONTAL)
7. CONTRACTOR IS TO SURVEY THE EXISTING ROOF DECKS W/A LEVEL (AFTER DEMOLITION) TO VERIFY THE SLOPES INDICATED ON PLAN ARE ACCURATE. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY ADDITIONAL ROOFING OPERATIONS.
8. CONTRACTOR IS TO INSPECT THE UNDERSIDE OF ALL ROOF DECKS PRIOR TO ROOFING OPERATIONS TO ENSURE THAT NO INTERIOR MATERIALS, EQUIPMENT, FINISHES OR OBJECTS WILL BE PIERCED OR DAMAGED.
9. CONTRACTOR ASSUMES ALL RESPONSIBILITY DURING PROJECT & WILL REPLACE ANY & ALL DAMAGED EQUIPMENT W/NO ADDITIONAL COST TO OWNER.
10. SITE AREAS DISTURBED SHALL BE CLEANED & RE-LEVELED, W/LAWN AREAS MAGNETICALLY RAKED TO REMOVE ANY METAL DEBRIS & RE-SEEDED AS REQUIRED TO MATCH ADJACENT CONDITIONS.
11. CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR CLEAN UP OF ROOFING MATERIALS & DEBRIS THAT PENETRATES THE INTERIOR ENVELOPE OF THE BUILDING W/NO ADDITIONAL COST TO THE OWNER.
12. SNAKE/CLEAN OUT ALL EXISTING VERTICAL & HORIZONTAL LEADERS OUT TO NEAREST MANHOLE OUTSIDE OF BUILDING.
13. ALL CRICKETS ARE TO BE SLOPED @ A MINIMUM OF ½" PER FOOT & COORDINATE CRICKETS AROUND EXIST. HVAC UNITS AS REQUIRED TO AVOID PONDING.
14. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL & RE-INSTALLATION OF ALL HVAC UNITS INCLUDING ANY ELECTRICAL OR MECHANICAL CONNECTIONS. THIS MAY INCLUDE THE EXTENSION OF EXISTING ELECTRICAL & DUCTWORK SYSTEMS TO ACCOMMODATE NEW MECHANICAL UNIT CURBING & NEW ROOFING SYSTEM.
15. SNAKE/CLEAN OUT ALL EXISTING VENT STACKS BEFORE THE INSTALLATION OF METAL SLEEVE.
16. ALL DRAIN PIPING IS INSULATED ABOVE THE CEILINGS. THE EXACT ROUTE WILL BE DETERMINED IN THE FIELD. MAKE MINOR ADJUSTMENT IN THE ROUTE AT NO ADDITIONAL COST TO OWNER.
17. NEW ROOF INSULATION TO BE A MINIMUM OF R-30 AT ALL NEW ROOF DRAINS AND/OR THE LOW POINTS OF THE ROOF AREAS.
18. ALL ANTENNAE, CONDUITS & ANY OTHER OBJECTS TO REMAIN AFFECTED BY SCOPE OF WORK, TO BE REMOVED & REINSTALLED.

DEMOLITION NOTES (X)

1. REMOVE EXISTING 2" BASE LAYER & ½" TAPERED POLYISO INSULATION & ROOFING SYSTEM DOWN TO EXIST DECK.
2. REMOVE ALL PERIMETER METAL FLASHING WITHIN SCOPE OF WORK.
3. REMOVE EXISTING ROOF DRAINS & SUMP.

CONSTRUCTION NOTES (X)

1. WALKWAY PADS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATION. SEE PROJECT MANUAL FOR ADDITIONAL INFORMATION. COORDINATE & FINALIZE EXACT ROUTE W/ OWNER & ARCHITECT.
2. NEW METAL DOWNSPOUT LOCATION. PROVIDE NEW CONCRETE SPLASH BLOCK AT THIS LOCATION.
3. CONTRACTOR TO PROVIDE A SPECIFIED QUANTITY OF EXISTING DECK REPAIR & REPLACEMENT. SEE PROJECT MANUAL.

ROOF AREAS

ROOF "A"	200	SF.
ROOF "B"	22,000	SF.
ROOF "C"	750	SF.
ROOF "D"	7,650	SF.

TOTAL ROOF AREAS: 30,600 SF.
THIS AREA IS APPROXIMATE- V.I.F.
IECC CODE REQUIREMENT R-VALUE MIN. R-30
CONNECTICUT ZONE 2B
CBSC REQUIREMENT : R-30 -U.0333

CODE INFORMATION

USE GROUP : E
CONSTRUCTION CLASS: 2B
RISK CATEGORY II3
BASIC DESIGN WIND SPEED: 140 MPH
ALLOWABLE STRESS DESIGN WIND SPEED: 108 MPH

FACTORY MUTUAL ENGINEERING & RESEARCH CORPORATION (FM): ROOF ASSEMBLY CLASSIFICATION OF NON-COMBUSTIBLE CONSTRUCTION, WIND UPLIFT REQUIREMENT OF I-60 FOR FIELD, I-75 FOR PERIMETER AND I-110 FOR CORNERS, IN ACCORDANCE WITH FM PROPERTY LOSS PREVENTION DATA SHEETS 1-28.

ROOF ASSEMBLY

OUTSIDE AIR	0.17
TPO ROOF MEMBRANE	0.33
COVERBOARD	2.20
5" POLYISO INSUL.	29.7
EXISTING DECK	1.23
INSIDE AIR	0.61
R-VALUE TOTAL	34.37

Project Title:

ROOF REPLACEMENT AT:

CHARLES BARNUM ELEMENTARY SCHOOL

68 BRIAR HILL ROAD
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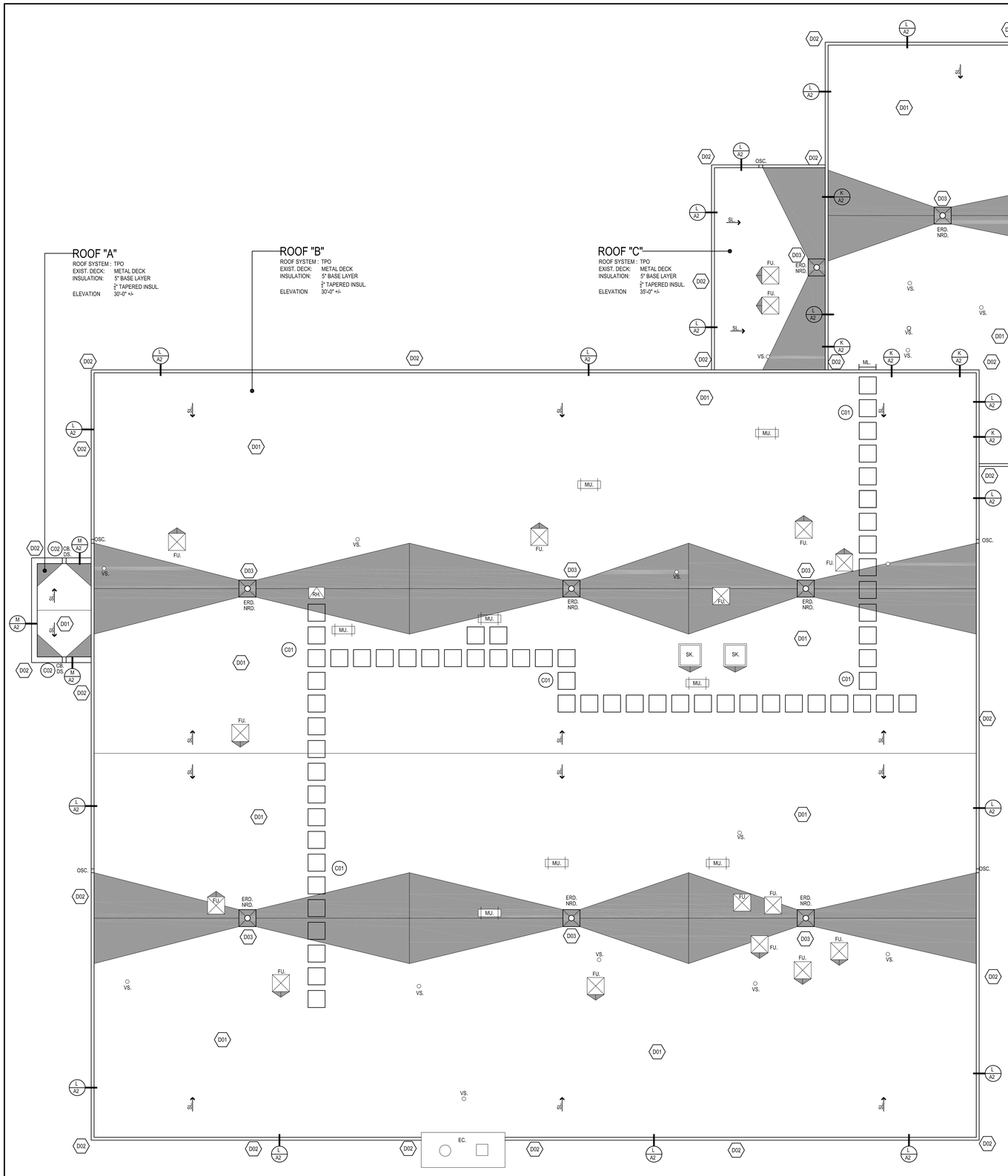
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Drawing Title:

CODE INFORMATION
ISSUED FOR BID 05/11/2026
STATE PROJECT 059-0192 RR

Date: 03/02/2026
Scale: NONE
Drawn By: KL/MCM
Project Number: 23.348

Drawing Number: C1



A1 ROOF PLAN
1/8"=1'-0"

0 4'-0" 8'-0" 12'-0" 20'-0"
GRAPHIC SCALE - 1/8" = 1'-0"

SYMBOL LEGEND

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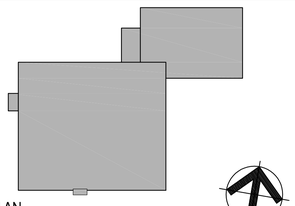
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COVERBOARD	2.20
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EXISTING DECK	1.23
INSIDE AIR	0.61
R-VALUE TOTAL	34.37



KEY PLAN
SCALE: NONE

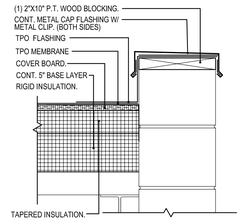
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Revision:	Description:	Date:	Revised By:

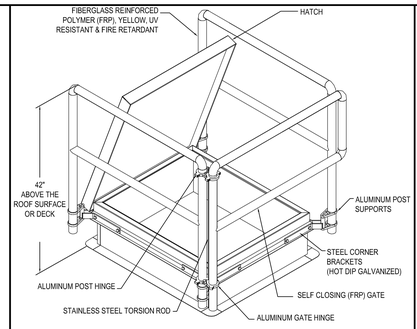
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ROOF PLAN
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STATE PROJECT 059-0192 RR

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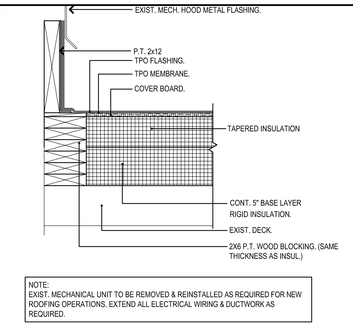
M ROOF EDGE

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



H ROOF HATCH SAFTEY RAIL

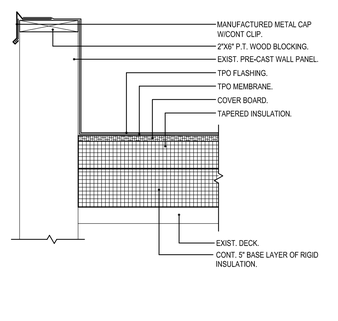
1-1/2"=1'-0"



NOTE:
EXIST. MECHANICAL UNIT TO BE REMOVED & REINSTALLED AS REQUIRED FOR NEW ROOFING OPERATIONS. EXTEND ALL ELECTRICAL WIRING & DUCTWORK AS REQUIRED.

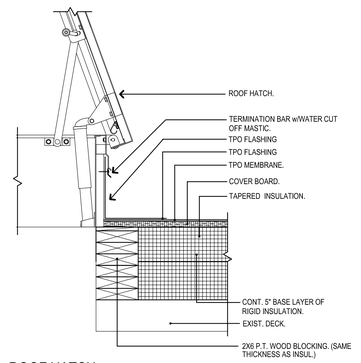
D ROOF FAN UNIT

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



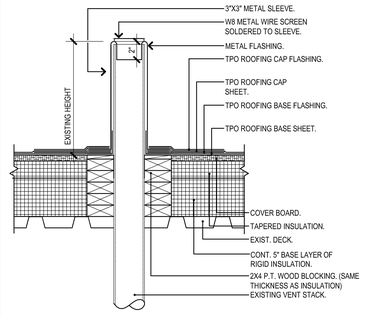
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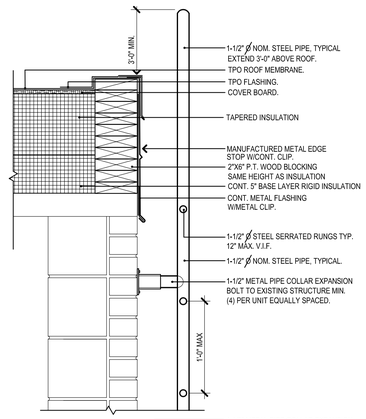
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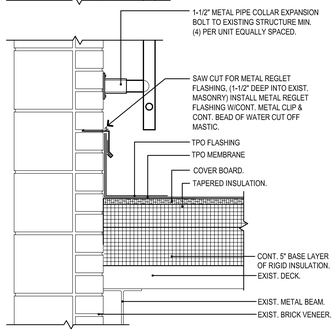
1-1/2"=1'-0"



C VENT STACK

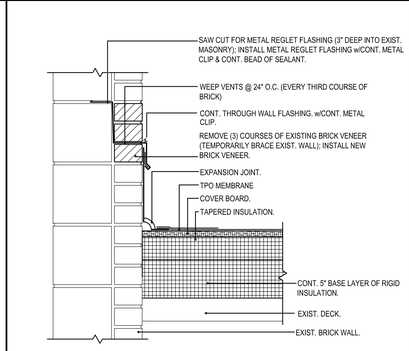
1-1/2"=1'-0"





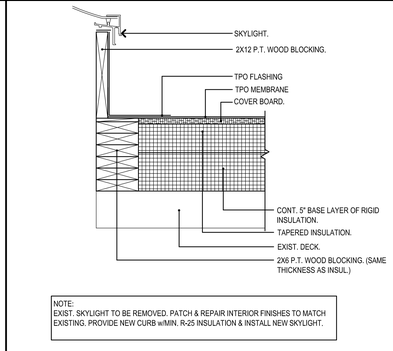
N ROOF LADDER

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



K RAISED REGLET

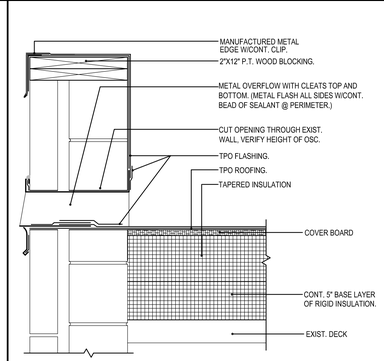
1-1/2"=1'-0"



NOTE:
EXIST. SKYLIGHT TO BE REMOVED. PATCH & REPAIR INTERIOR FINISHES TO MATCH EXISTING. PROVIDE NEW CURB w/MIN. R-25 INSULATION & INSTALL NEW SKYLIGHT.

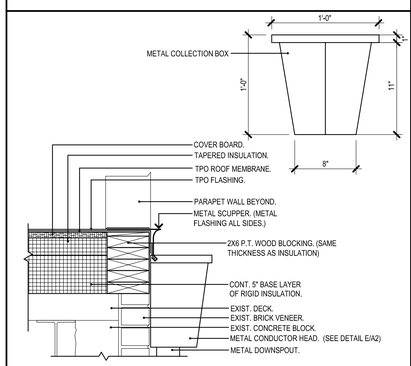
F SKYLIGHT

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



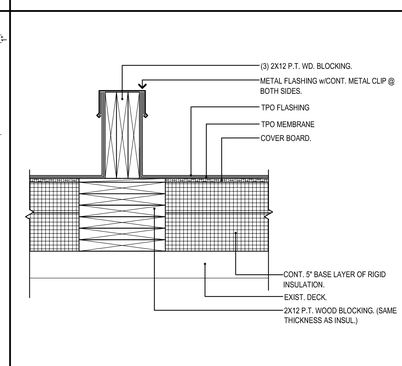
B EMERGENCY OVERFLOW SCUPPER

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



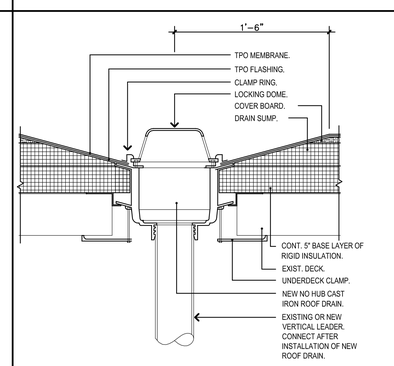
J OVERFLOW SCUPPER

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



E MECHANICAL CURB

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



A ROOF DRAIN

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

Project Title:

ROOF REPLACEMENT AT:

CHARLES BARNUM ELEMENTARY SCHOOL

68 BRIAR HILL ROAD
GROTON, CONNECTICUT 06340

SILVER PETRUCELLI + ASSOCIATES

3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:

Drawing Title:

ROOF DETAILS

ISSUED FOR BID 05/11/2026
STATE PROJECT 059-0192 RR

Date: 03/02/2026
Scale: 1-1/2"=1'-0"
Drawn By: KL/MCM
Project Number: 23.348

Drawing Number: A2