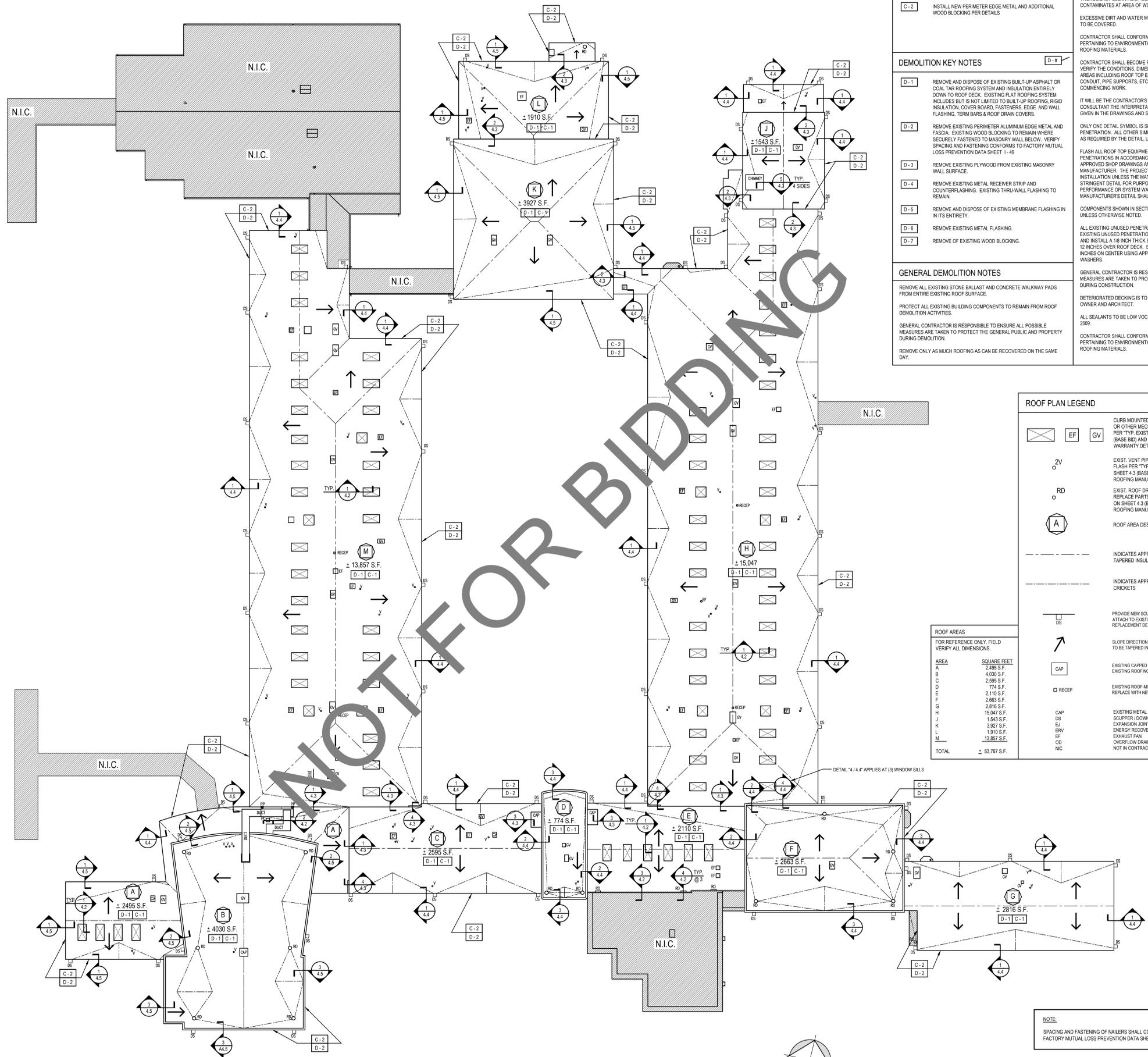




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**CONSTRUCTION KEY NOTES**

C-1 INSTALL NEW ROOFING SYSTEM PER ROOF SYSTEM SECTIONS, DRAWING 4.2.

C-2 INSTALL NEW PERIMETER EDGE METAL AND ADDITIONAL WOOD BLOCKING PER DETAILS.

**DEMOLITION KEY NOTES**

D-1 REMOVE AND DISPOSE OF EXISTING BUILT-UP ASPHALT OR COAL TAR ROOFING SYSTEM AND INSULATION ENTIRELY DOWN TO ROOF DECK. EXISTING FLAT ROOFING SYSTEM INCLUDES BUT IS NOT LIMITED TO BUILT-UP ROOFING, RIGID INSULATION, COVER BOARD, FASTENERS, EDGE AND WALL FLASHING, TERRACE BARS & ROOF DRAIN COVERS.

D-2 REMOVE EXISTING PERIMETER ALUMINUM EDGE METAL AND FASCIA. EXISTING WOOD BLOCKING TO REMAIN WHERE SECURELY FASTENED TO MASONRY WALL BELOW. VERIFY SPACING AND FASTENING CONFORMS TO FACTORY MUTUAL LOSS PREVENTION DATA SHEET 1-49.

D-3 REMOVE EXISTING PLYWOOD FROM EXISTING MASONRY WALL SURFACE.

D-4 REMOVE EXISTING METAL RECEIVER STRIP AND COUNTERFLASHING. EXISTING THRU-WALL FLASHING TO REMAIN.

D-5 REMOVE AND DISPOSE OF EXISTING MEMBRANE FLASHING IN ITS ENTIRETY.

D-6 REMOVE EXISTING METAL FLASHING.

D-7 REMOVE OF EXISTING WOOD BLOCKING.

**GENERAL DEMOLITION NOTES**

REMOVE ALL EXISTING STONE BALLAST AND CONCRETE WALKWAY PADS FROM ENTIRE EXISTING ROOF SURFACE.

PROTECT ALL EXISTING BUILDING COMPONENTS TO REMAIN FROM DEMOLITION ACTIVITIES.

GENERAL CONTRACTOR IS RESPONSIBLE TO ENSURE ALL POSSIBLE MEASURES ARE TAKEN TO PROTECT THE GENERAL PUBLIC AND PROPERTY DURING DEMOLITION.

REMOVE ONLY AS MUCH ROOFING AS CAN BE RECOVERED ON THE SAME DAY.

**GENERAL CONSTRUCTION NOTES**

INSTALL CRICKETS ON UP-SLOPE SIDE OF ALL EXISTING CURBS THOROUGHLY CLEAN ROOF SURFACE OF DIRT, DEBRIS, AND CONTAMINATES AT AREA OF WORK.

EXCESSIVE DIRT AND WATER MUST BE BROOMED FREE FROM THE AREA TO BE COVERED.

CONTRACTOR SHALL CONFORM TO MANUFACTURER'S INSTRUCTIONS PERTAINING TO ENVIRONMENTAL CONDITIONS PRIOR TO INSTALLATION OF ROOFING MATERIALS.

CONTRACTOR SHALL BECOME FAMILIAR WITH AND VERIFY THE CONDITIONS, DIMENSIONS AND LOCATIONS OF ALL ROOF AREAS INCLUDING ROOF TOP EQUIPMENT, FLASHINGS, PIPE LINES, CONDUIT, PIPE SUPPORTS, ETC., BEFORE SUBMITTING A BID OR COMMENCING WORK.

IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN FROM THE CONSULTANT THE INTERPRETATION AND INTENT OF THE INFORMATION GIVEN IN THE DRAWINGS AND SPECIFICATIONS.

ONLY ONE DETAIL SYMBOL IS SHOWN FOR EACH TYPE OF ROOF PENETRATION. ALL OTHER SIMILAR PENETRATIONS ARE TO BE FLASHED AS REQUIRED BY THE DETAIL, UNLESS OTHERWISE NOTED.

FLASH ALL ROOF TOP EQUIPMENT, WALLS, AND OTHER ROOF TOP PENETRATIONS IN ACCORDANCE WITH THE CONTRACT DRAWINGS, APPROVED SHOP DRAWINGS AND AS REQUIRED BY THE ROOF MEMBRANE MANUFACTURER. THE PROJECT DETAILS SHALL COVER THE MATERIAL INSTALLATION UNLESS THE MATERIAL MANUFACTURER REQUIRES A MORE STRINGENT DETAIL FOR PURPOSES OF THE PROPER MATERIAL PERFORMANCE OR SYSTEM WARRANTY, IN WHICH CASE, THE MANUFACTURER'S DETAIL SHALL GOVERN.

COMPONENTS SHOWN IN SECTIONS AND DETAILS ARE TO BE "NEW," UNLESS OTHERWISE NOTED.

ALL EXISTING UNUSED PENETRATIONS - REMOVE AND DISCARD EACH EXISTING UNUSED PENETRATION DOWN TO THE ROOF DECK. PROVIDE AND INSTALL A 1/8" THICK STEEL PLATE OVER OPENING AND EXTEND 12 INCHES OVER ROOF DECK. SECURE STEEL PLATE TO THE ROOF DECK 4 INCHES ON CENTER USING APPROVED FASTENERS AND STAINLESS STEEL WASHERS.

GENERAL CONTRACTOR IS RESPONSIBLE TO ENSURE ALL POSSIBLE MEASURES ARE TAKEN TO PROTECT THE GENERAL PUBLIC AND PROPERTY DURING CONSTRUCTION.

DETERIORATED DECKING IS TO BE REPLACED AFTER VERIFICATION FROM OWNER AND ARCHITECT.

ALL SEALANTS TO BE LOW VOC AS REQUIRED BY LAW EFFECTIVE MAY 2009.

CONTRACTOR SHALL CONFORM TO MANUFACTURER'S INSTRUCTIONS PERTAINING TO ENVIRONMENTAL CONDITIONS PRIOR TO INSTALLATION OF ROOFING MATERIALS.

**ROOF PLAN LEGEND**

⊗	GV	CURB MOUNTED EXHAUST FAN, GRAVITY VENT, SKYLIGHT OR OTHER MECH. UNIT OR VENT PENETRATION - FLASH PER TYP. EXIST. CURB FLASHING DETAIL ON SHEET 4.3 (BASE BID) AND 4.5 (ALTERNATES) AND ROOFING MANUF. WARRANTY DETAILS
○	2V	EXIST. VENT PIPE PENETRATION (2V = 2" VENT) FLASH PER TYP. VENT PIPE PENETRATION DETAIL ON SHEET 4.3 (BASE BID) AND 4.5 (ALTERNATES) AND ROOFING MANUF. WARRANTY DETAILS
○	RD	EXIST. ROOF DRAIN PENETRATION REPLACE PARTS AND FLASH PER TYP. ROOF DRAIN DETAIL ON SHEET 4.3 (BASE BID) AND 4.5 (ALTERNATES) AND ROOFING MANUF. WARRANTY DETAILS
⊙	A	ROOF AREA DESIGNATION - SEE ROOF PLAN
---		INDICATES APPROX. LOCATION OF NEW TAPERED INSULATION RIDGE
---		INDICATES APPROX. LOCATION OF NEW CRICKETS
⊞		PROVIDE NEW SCUPPER BOX, OUTLET AND TRANSITION AND ATTACH TO EXISTING DOWNSPOUT PER TYPICAL SCUPPER REPLACEMENT DETAILS
↗		SLOPE DIRECTION OF TAPERED INSULATION - ALL INSULATION TO BE TAPERED INSULATION UNLESS NOTED OTHERWISE
□	CAP	EXISTING CAPPED ROOF OPENING TO REMAIN. REMOVE EXISTING ROOFING AND RE-ROOF PER DETAIL 3.1.4.3 (BIM @ AL.1)
□	RECEP	EXISTING ROOF-MOUNTED POWER RECEPTACLE. REMOVE AND REPLACE WITH NEW TO MATCH EXISTING.
□	CAP	EXISTING METAL CAP
□	SCUPPER	SCUPPER / DOWNSPOUT
□	EJ	EXPANSION JOINT
□	ERV	ENERGY RECOVERY VENTILATOR
□	EF	EXHAUST FAN
□	OD	OVERFLOW DRAIN
□	NC	NOT IN CONTRACT

**ROOF AREAS**

FOR REFERENCE ONLY. FIELD VERIFY ALL DIMENSIONS.

AREA	SQUARE FEET
A	2,495 S.F.
B	4,030 S.F.
C	2,995 S.F.
D	774 S.F.
E	2,110 S.F.
F	2,863 S.F.
G	2,916 S.F.
H	15,047 S.F.
J	1,543 S.F.
K	3,927 S.F.
L	1,910 S.F.
M	13,857 S.F.
TOTAL	53,767 S.F.

**ROOF PLAN**  
SCALE: 1/16" = 1'-0"



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Website: www.studiojaed.com  
E-Mail: info@studiojaed.com

**REVISIONS**

NO.	DESCRIPTION	DATE

PROJECT: SEAFORD SCHOOL DISTRICT  
ROOF REPLACEMENT PROJECT  
CENTRAL ELEMENTARY SCHOOL  
1 DELAWARE PLACE  
SEAFORD, DE 19673

SHEET TITLE: **ROOF PLAN**

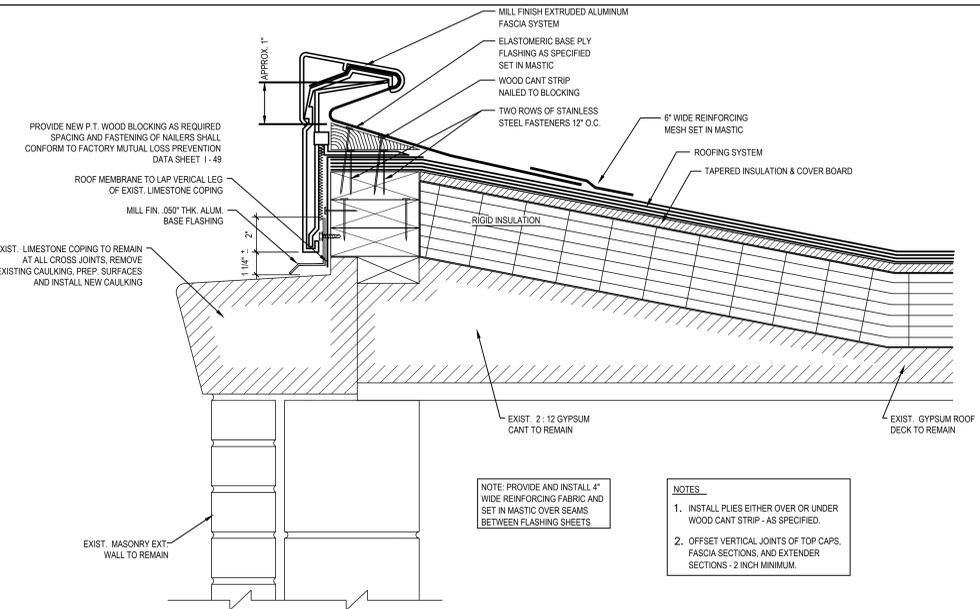
**BID DOCUMENTS**  
FEBRUARY 10, 2012

DRAWN: CHK/D/DESIGNER  
DISCIPLINE: A  
SHEET NO.: 4.1  
PROJECT NO.: 10021



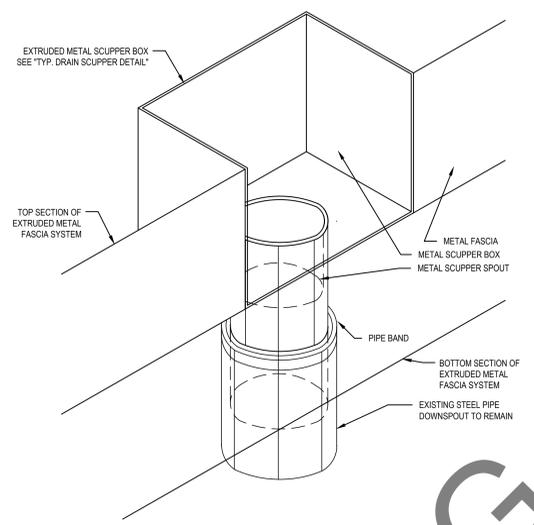


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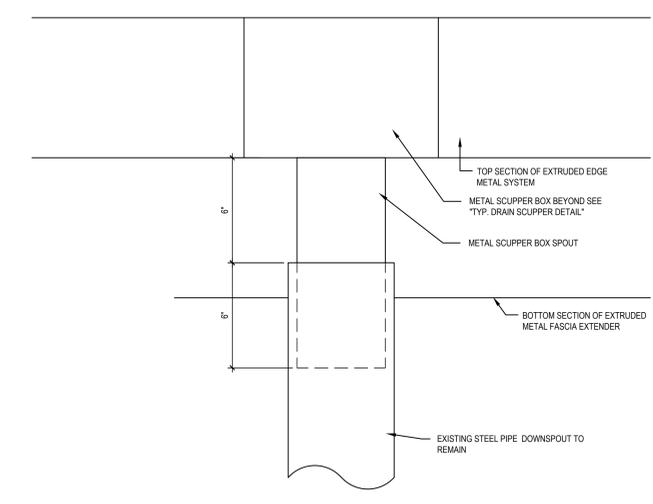


**3 ROOF EDGE DETAIL**  
4.4 SCALE: 3" = 1'-0"

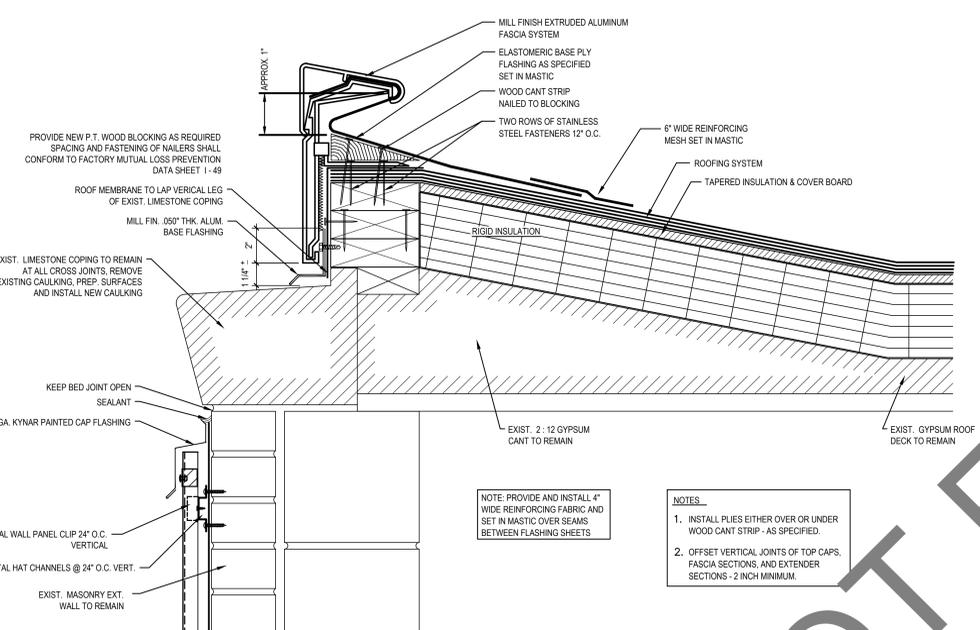
- NOTE:** PROVIDE AND INSTALL 4" WIDE REINFORCING FABRIC AND SET IN MASTIC OVER SEAMS BETWEEN FLASHING SHEETS
- NOTES:**
1. INSTALL PLIES EITHER OVER OR UNDER WOOD CANT STRIP - AS SPECIFIED.
  2. OFFSET VERTICAL JOINTS OF TOP CAPS, FASCIA SECTIONS, AND EXTENDER SECTIONS - 2 INCH MINIMUM.



**TYP. SCUPPER REPLACEMENT CONDITION**  
SCALE: 3" = 1'-0"

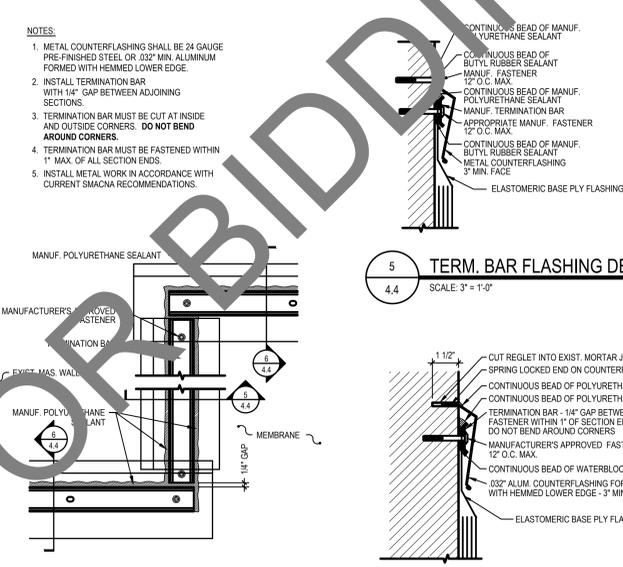


**TYP. SCUPPER REPLACEMENT ELEVATION**  
SCALE: 3" = 1'-0"



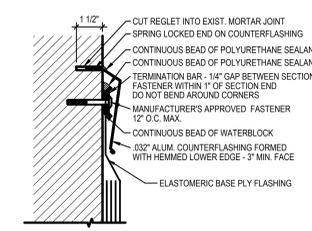
**4 TERM. BAR FLASHING DETAIL**  
4.4 SCALE: 3" = 1'-0"

- NOTE:** PROVIDE AND INSTALL 4" WIDE REINFORCING FABRIC AND SET IN MASTIC OVER SEAMS BETWEEN FLASHING SHEETS
- NOTES:**
1. INSTALL PLIES EITHER OVER OR UNDER WOOD CANT STRIP - AS SPECIFIED.
  2. OFFSET VERTICAL JOINTS OF TOP CAPS, FASCIA SECTIONS, AND EXTENDER SECTIONS - 2 INCH MINIMUM.

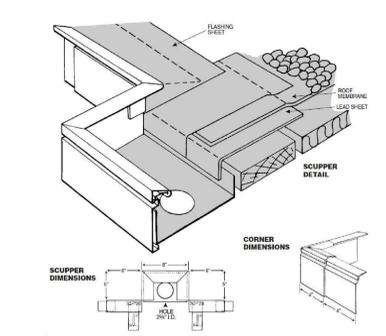


**TYP. TERM. BAR FLASHING ELEVATION**  
SCALE: 3" = 1'-0"

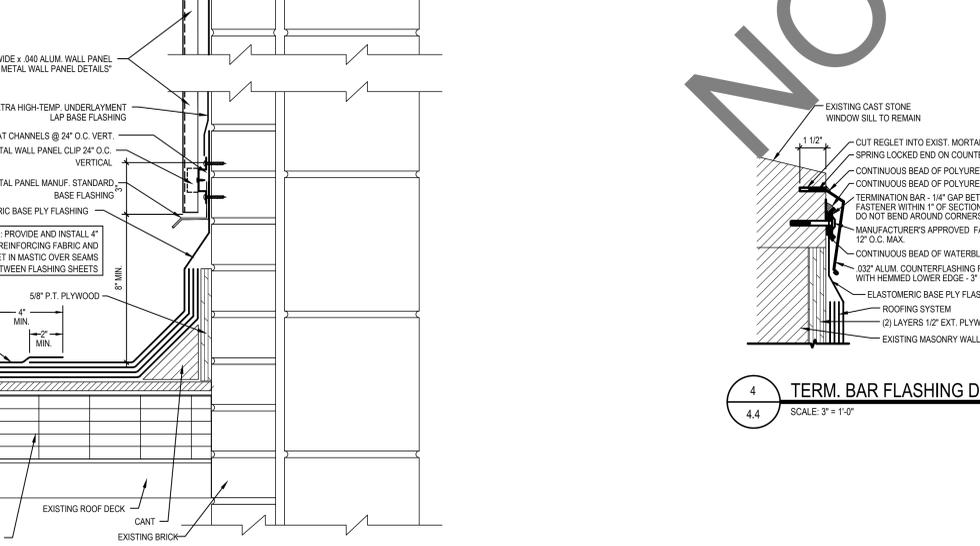
**5 TERM. BAR FLASHING DETAIL**  
4.4 SCALE: 3" = 1'-0"



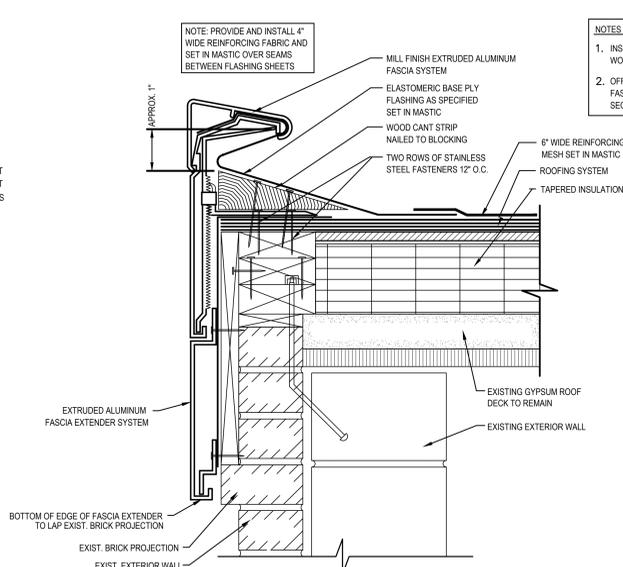
**6 TERM. BAR FLASHING DETAIL**  
4.4 SCALE: 3" = 1'-0"



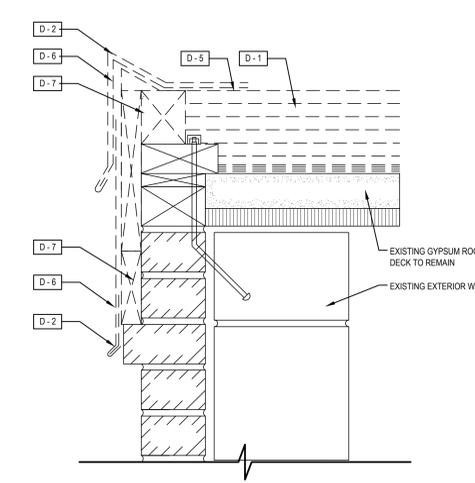
**TYP. DRAIN SCUPPER DETAIL**  
NOT TO SCALE



**2 BASE / ROOF EDGE DETAIL**  
4.4 SCALE: 3" = 1'-0"



**1 ROOF EDGE DETAIL**  
4.4 SCALE: 3" = 1'-0"



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E-Mail: info@StudioJAED.com  
Website: www.StudioJAED.com

REVISIONS	
DESCRIPTION	DATE

SEAFORD SCHOOL DISTRICT  
ROOF REPLACEMENT PROJECT

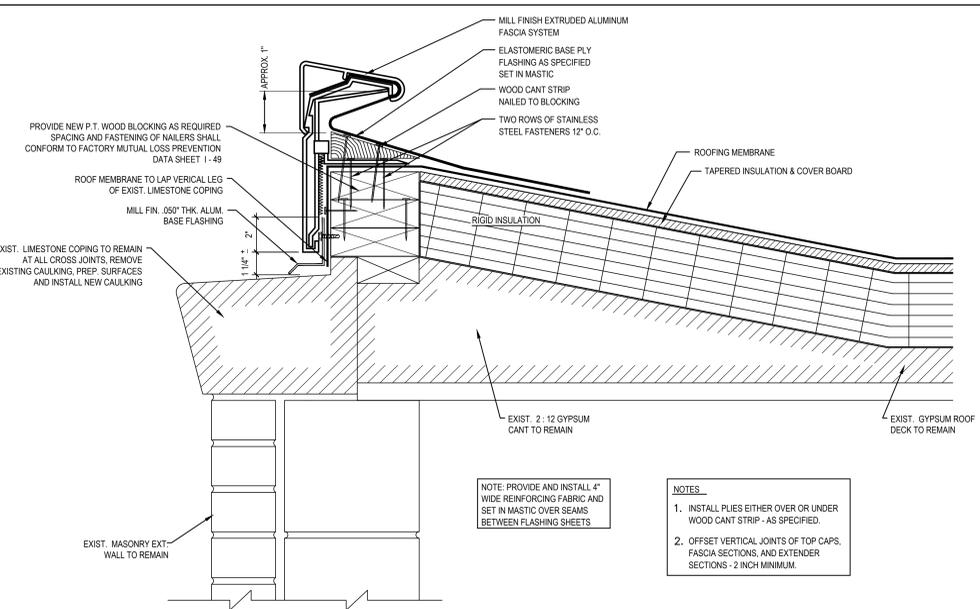
CENTRAL ELEMENTARY SCHOOL  
1 DELAWARE PLACE  
SEAFORD, DE 19973

PROJECT SHEET TITLE  
**ROOF DETAILS**

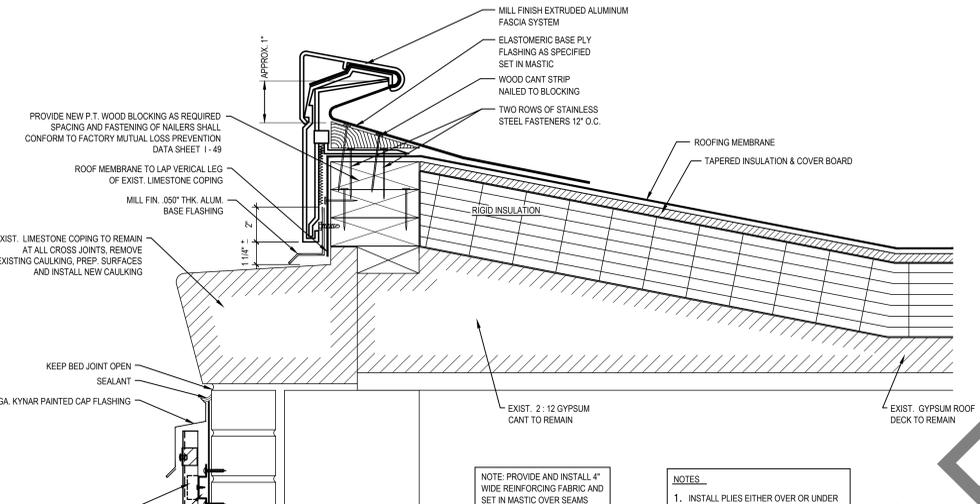
BID DOCUMENTS  
FEBRUARY 10, 2012

DRAWN: CHK/DSEIGNER  
DISCIPLINE: A SHEET NO.: 4.4  
PROJECT NO.: 10021

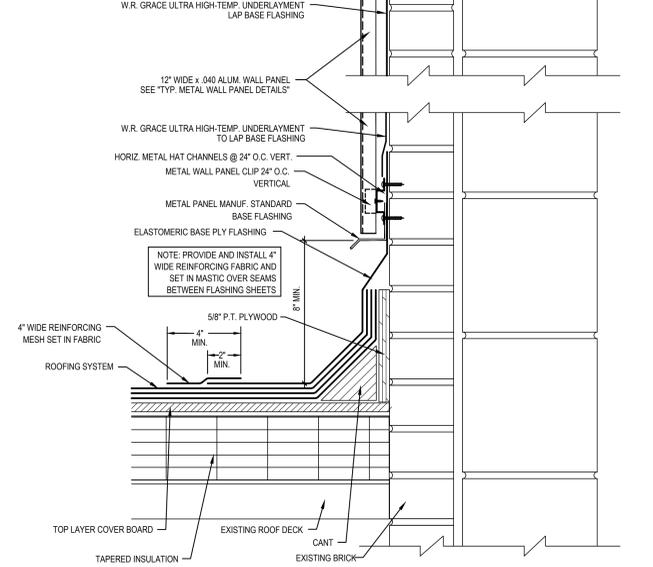
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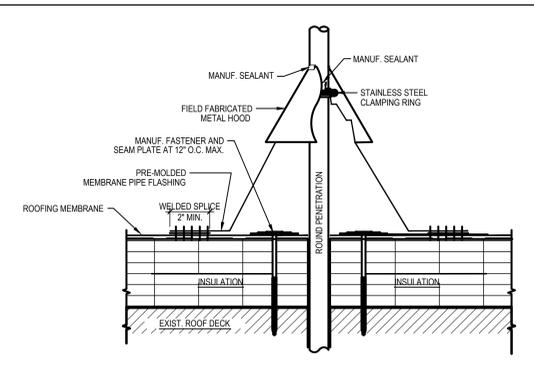
**3 ROOF EDGE DETAIL**  
SCALE: 3" = 1'-0"



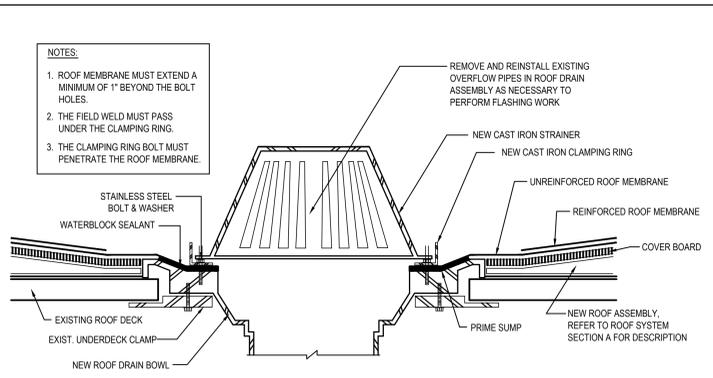
**4.5 ROOF EDGE DETAIL**  
SCALE: 3" = 1'-0"



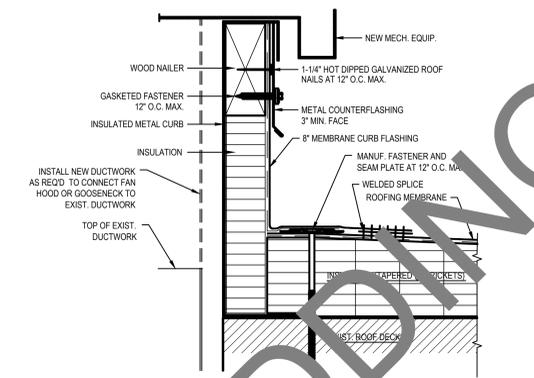
**2 BASE / ROOF EDGE DETAIL**  
SCALE: 3" = 1'-0"



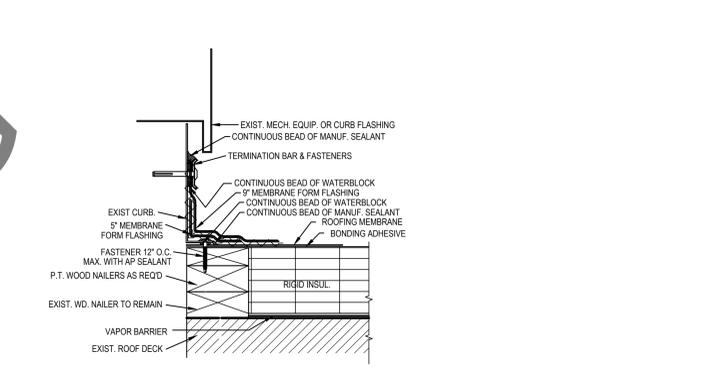
**TYP. SPM VENT PENETRATION DETAIL**  
SCALE: 3" = 1'-0"



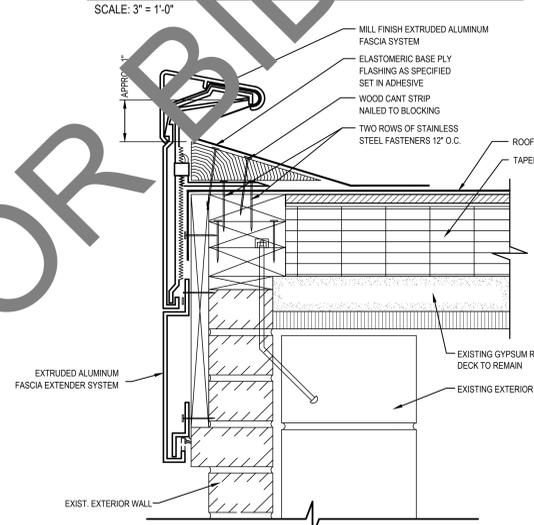
**TYP. SPM ROOF DRAIN DETAIL**  
SCALE: 3" = 1'-0"



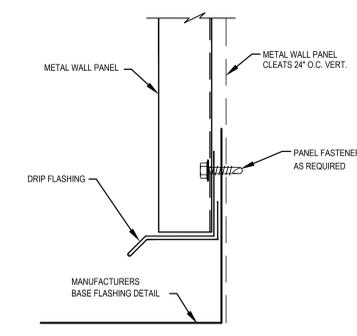
**TYP. SPM FLASHING DETAIL AT NEW CURB**  
SCALE: 3" = 1'-0"



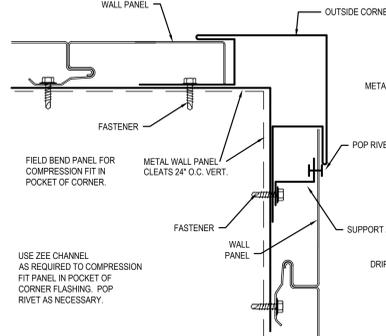
**TYP. SPM FLASHING DETAIL AT EXIST. CURB**  
SCALE: 3" = 1'-0"



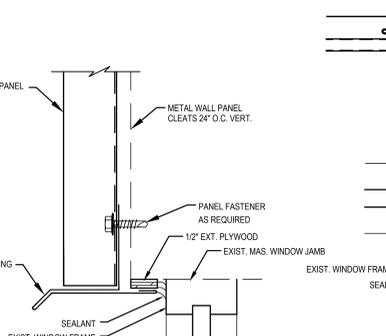
**1 ROOF EDGE DETAIL**  
SCALE: 3" = 1'-0"



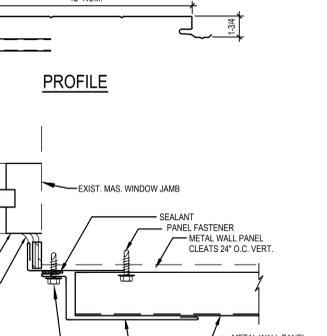
**BASE DETAIL**



**OUTSIDE CORNER**



**HEAD DETAIL**



**JAMB DETAIL**

**TYPICAL METAL WALL PANEL DETAILS**  
NOT TO SCALE

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DESCRIPTION	DATE

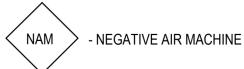
SEAFORD SCHOOL DISTRICT  
 ROOF REPLACEMENT PROJECT  
 CENTRAL ELEMENTARY SCHOOL  
 1 DELAWARE PLACE  
 SEAFORD, DE 19973

**BID DOCUMENTS**  
 FEBRUARY 10, 2012  
 DRAWN: CHK/DSEIGNER  
 DISCIPLINE: A SHEET NO. 4.5  
 PROJECT NO. 10021

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**LEGEND**

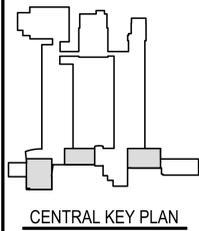
- CPC - CORRUGATED PIPE COVERING (AIRCELL)
- WCP - WRAPPED CARDBOARD PAPER PIPE COVERING
- PI - MISC. PIPE INSULATION
- MJP - MUDDERED JOINT PACKING
- SOIL - ASBESTOS CONTAMINATED SOIL
- APM - ACOUSTICAL PLASTER MATERIAL
- BTI - BOILER, BREECHING & TANK INSULATION
- TPB - TRANSITE PANEL BOARD
- TP - TRANSITE PIPE
- VAT - VINYL ASBESTOS TILE
- VATM - VINYL ASBESTOS TILE MASTIC
- VJC - VIBRATION JOINT CLOTH
- ROOF - ROOFING MATERIAL
- MISC - MISCELLANEOUS



**GENERAL NOTES**

1. THESE DRAWINGS HAVE BEEN COMPILED FROM EXISTING DRAWINGS, ASBESTOS ASSESSMENT FIELD SKETCHES AND SITE VISITS. VARIATIONS IN THE QUANTITY AND THE LOCATION OF THE ITEMS ARE POSSIBLE. THE CONTRACTOR MUST FIELD VERIFY ALL QUANTITIES AND LOCATIONS OF THE LISTED ITEMS.
2. THE CONTRACTOR IS REQUIRED TO RESTORE ALL SURFACES TO ORIGINAL OR EXCEEDING ORIGINAL CONDITIONS AS SPELLED OUT IN THE APPLICABLE SPECIFICATIONS.
3. METHOD OF REMOVAL: \_\_\_\_\_ GROSS
4. RESPIRATORY PROTECTION: \_\_\_\_\_ PAPR
5. NEGATIVE AIR MACHINES: \_\_\_\_\_ 0
6. DECONTAMINATION UNITS: \_\_\_\_\_ 3 STAGE
7. NUMBER REQUIRED: \_\_\_\_\_ 1
8. REINSULATION: \_\_\_\_\_ N/A
9. PLACE PRIMARY BARRIERS ON ALL EQUIPMENT NOT SUSCEPTIBLE FOR REMOVAL.
10. COORDINATE WITH OWNER FOR WATER, SEWER AND ELECTRICAL CONNECTIONS.
11. COORDINATE WITH OWNER FOR PLACEMENT OF DUMPS.
12. COORDINATE WITH OWNER FOR PLACEMENT OF 3-STAGE DECONTAMINATION UNIT.
13. COORDINATE WITH OWNER FOR PLACEMENT OF SCISSOR LIFT.

QUANTITIES OF RACM			
TYPE	SIZE	QTY.	PERCENTAGE
CPC	UP TO 2"		
	2 1/2" - 6"		
	6 1/2" AND UP		
WCP	UP TO 2"		
	2 1/2" - 6"		
	6 1/2" AND UP		
PI	UP TO 2"		
	2 1/2" - 6"		
	6 1/2" AND UP		
MJP	UP TO 2"		
	2 1/2" - 6"		
	6 1/2" AND UP		
SOIL			
APM			
B (SQ. FT.)			
TPB			
TP			
VAT (SQ. FT.)			
VATM (SQ. FT.)			
VJC (L.F.)			
ROOF		325	9.98% CHRYSOTILE
MISC			



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E-Mail: info@studiojaed.com  
 Website: www.studiojaed.com

REVISIONS	
DESCRIPTION	DATE

SEAFOORD SCHOOL DISTRICT  
 ROOF REPLACEMENT PROJECT  
 CENTRAL ELEMENTARY SCHOOL  
 1 DELAWARE PLACE  
 SEAFOORD, DE 19873

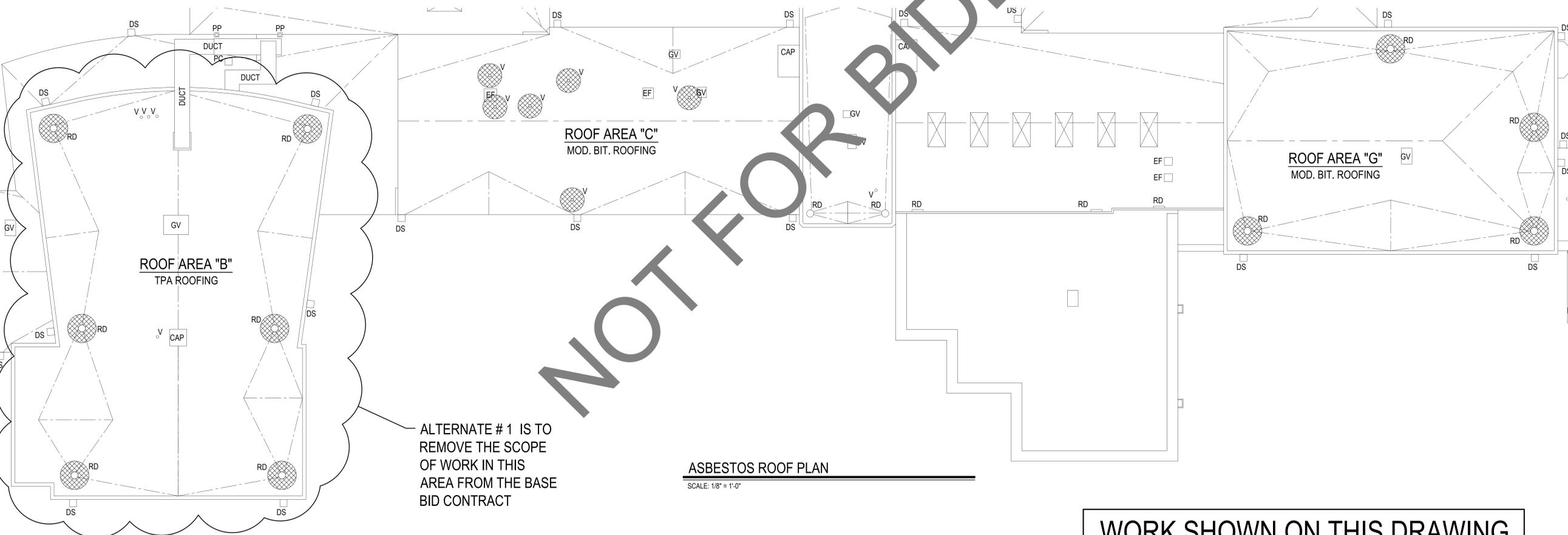
PROJECT SHEET TITLE

REFERENCE DRAWING

**BID DOCUMENTS**  
 FEBRUARY 10, 2012

DRAWN: JRB CHK'D/DISIGNER: DTS  
 DISCIPLINE: A SHEET NO.: 13.1

PROJECT NO.: 10021



ALTERNATE # 1 IS TO REMOVE THE SCOPE OF WORK IN THIS AREA FROM THE BASE BID CONTRACT

**ASBESTOS ROOF PLAN**  
 SCALE: 1/8" = 1'-0"

**WORK SHOWN ON THIS DRAWING IS FOR REFERENCE ONLY AND SHOULD BE CONSIDERED N.I.C. (NOT IN CONTRACT)**