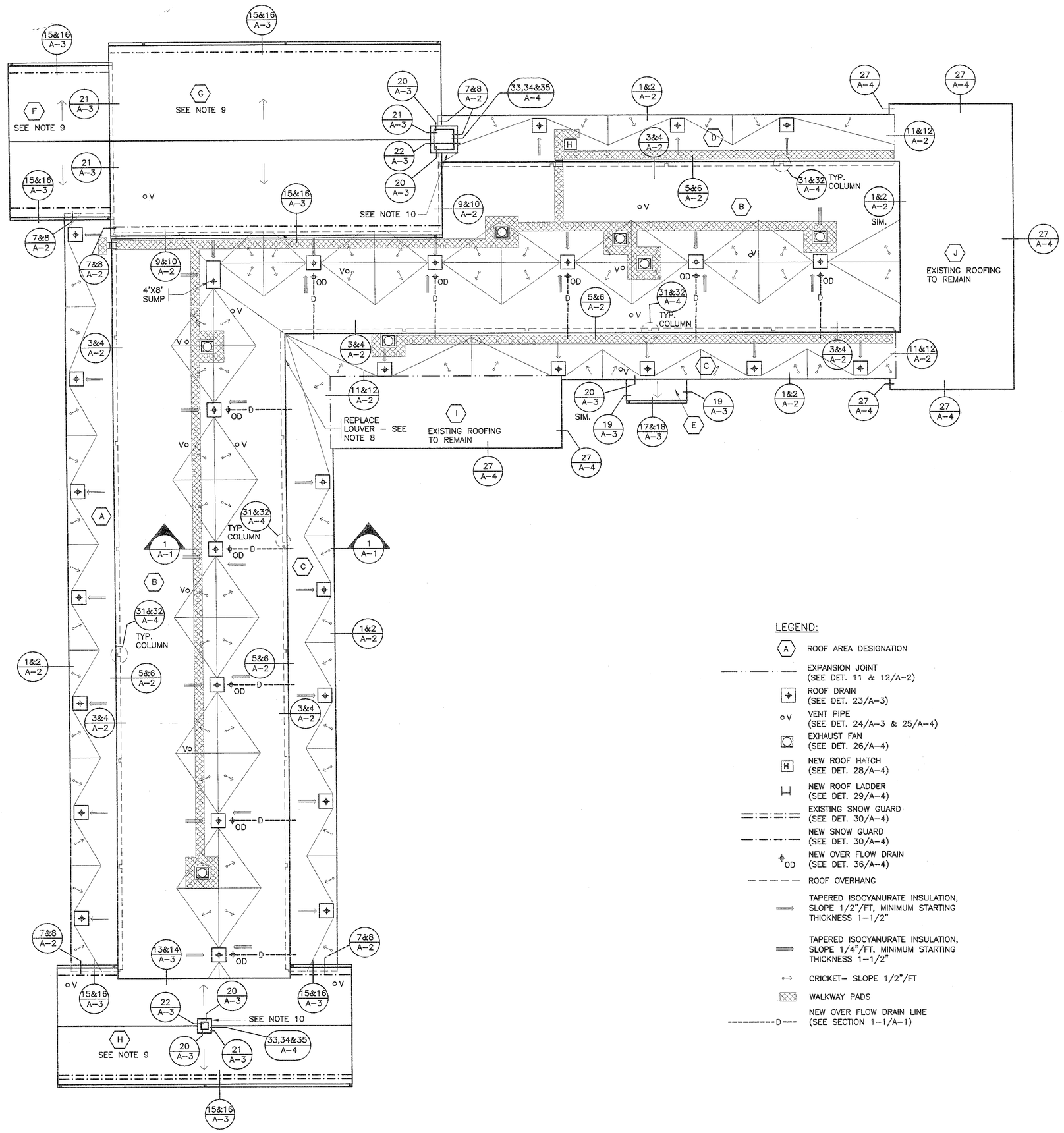


ROOF PLAN

0 4' 8' 16'

PROJECT NORTH

ROOF R-VALUE CALCULATIONS

ROOF AREA	DECK TYPE	R-VALUE OF OTHER COMPONENTS	STARTING THICKNESS OF NEW INSULATION	AVERAGE THICKNESS OF NEW INSULATION	AVERAGE R-VALUE OF NEW INSULATION	TOTAL R- VALUE
A	WOOD	14.7	1.5"	5"	31	45.7
B	WOOD	14.7	1.5"	4.5"	28	42.7
C	WOOD	14.7	1.5"	5"	31	45.7
D	WOOD	14.7	1.5"	5"	31	45.7
E	WOOD	THIS ROOF IS AN EXTERIOR CANOPY WITH ASPHALT SHINGLES				
F	WOOD	EXISTING ROOF TO REMAIN				
G	WOOD	EXISTING ROOF TO REMAIN				
H	WOOD	EXISTING ROOF TO REMAIN				
I	WOOD	EXISTING ROOF TO REMAIN				
J	WOOD	EXISTING ROOF TO REMAIN				

NOTES:

1. R-VALUE REQUIRED TO MEET 2003 INTERNATIONAL ENERGY CONSERVATION CODE PER TABLE 802.2(27) BUILDING ENVELOPE REQUIREMENTS, CLIMATE ZONE 12c, WINDOW AND DOOR GLAZED AREA 40% TO 50%: R=23

2. R-VALUE OF OTHER COMPONENTS:

EXTERIOR AIR FILM	=0.17
60 MIL EPDM MEMBRANE	=0.10
1/4" GYPSUM BOARD	=0.22
WOOD DECK	=0.98
3" BATT INSULATION	=10
12" AIR SPACE	=0.94
3/4" CEILING TILE	=1.78
INTERIOR AIR FILM	=0.61

3. INSTALL TAPERED ISOCYANURATE INSULATION ON AREAS 'A', 'C', AND 'D' TO SLOPE 1/2"/FT..

4. INSTALL TAPERED INSULATION ON AREA 'B' TO SLOPE 1/4"/FT (THE EXISTING ROOF DECK ON AREA 'B' SLOPES 1/4"/FT. THE TAPERED INSULATION AND DECK SLOPE WILL ACHIEVE A TOTAL SLOPE OF 1/2" PER FOOT).

LEGEND:

- (A) ROOF AREA DESIGNATION
- EXPANSION JOINT (SEE DET. 11 & 12/A-2)
- ROOF DRAIN (SEE DET. 23/A-3)
- VENT PIPE (SEE DET. 24/A-3 & 25/A-4)
- EXHAUST FAN (SEE DET. 26/A-4)
- NEW ROOF HATCH (SEE DET. 28/A-4)
- NEW ROOF LADDER (SEE DET. 29/A-4)
- EXISTING SNOW GUARD (SEE DET. 30/A-4)
- NEW SNOW GUARD (SEE DET. 30/A-4)
- NEW OVER FLOW DRAIN (SEE DET. 36/A-4)
- ROOF OVERHANG
- TAPERED ISOCYANURATE INSULATION, SLOPE 1/2"/FT, MINIMUM STARTING THICKNESS 1-1/2"
- TAPERED ISOCYANURATE INSULATION, SLOPE 1/4"/FT, MINIMUM STARTING THICKNESS 1-1/2"
- CRICKET- SLOPE 1/2"/FT
- WALKWAY PADS
- NEW OVER FLOW DRAIN LINE (SEE SECTION 1-1/A-1)

NOTES:

1. DIMENSIONS AND CONDITIONS ON THE ROOF PLAN AND DETAILS ARE APPROXIMATE AND MUST BE CONFIRMED BY THE CONTRACTOR. ONLY CERTAIN FASTENERS ARE SHOWN ON THE DRAWINGS, REFER TO THE SPECIFICATIONS FOR ADDITIONAL FASTENER REQUIREMENTS.

2. TEST ALL ROOF DRAIN LINES AND UNDERGROUND DRAIN LINES IN AREAS BEING REROOFED WITH A RUNNING HOSE, FOR AT LEAST ONE HOUR, PRIOR TO STARTING ANY OTHER WORK. PROVIDE THE OWNER WITH A WRITTEN REPORT OF ANY CLOGGED LINES. SHOULD THE CONTRACTOR FAIL TO TEST THE DRAIN LINES AND PROVIDE A WRITTEN REPORT OF DEFECTS, PRIOR TO STARTING OTHER WORK, HE SHALL, AT THE COMPLETION OF THIS PROJECT, PERFORM WHATEVER WORK IS REQUIRED TO RESTORE THE DRAIN LINES TO CLEAN, CLEAR CONDITION.

3. INSTALL NEW WALKWAY PADS WHERE SHOWN ON THE ROOF PLAN.

4. REPAIR ALL EXISTING EXHAUST FAN/VENTILATOR HOUSINGS TO BE WATERTIGHT.

5. REPAIR OR REPLACE DAMAGED OR DETERIORATED PORTIONS OF THE EXISTING ROOF DECKING. SEE UNIT PRICES.

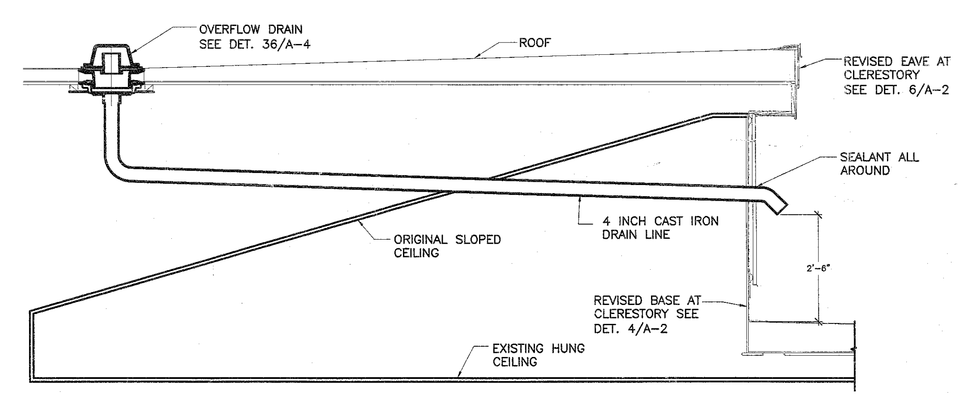
6. SCRAPE, PRIME AND PAINT ALL WOOD COMPONENTS AT THE GUTTER EAVES, AND GABLE END RAKES ON ROOF AREAS 'F', 'G', AND 'H".

7. WIRE BRUSH PRIME & PAINT ALL NON-COPPER ROOF TOP EQUIPMENT.

8. REMOVE AND REPLACE EXISTING WALL LOUVER WITH NEW ANODIZED ALUMINUM LOUVER WITH BIRD AND INSECT SCREEN. MODIFY EXISTING DUCTWORK AS NEEDED.

9. BASE BID – PERFORM REPAIRS TO SLATE ROOF AREAS AS INDICATED ON THE ROOF PLAN AND DETAILS. REPLACE WITH SLATE TO MATCH EXISTING ALL CRACKED, BROKEN, OR MISSING SLATE TO RESTORE THE ROOF TO FULLY FUNCTIONAL CONDITION. SLATE WITH MINOR COSMETIC IMPERFECTIONS WHICH DO NOT EFFECT FUNCTION NEED NOT BE REPLACED. ALTERNATE BID – REPLACE ALL SLTATE AREAS, SEE SPECS.

10. RAKE OUT EXISTING MORTAR JOINTS AND REPOINT BOTH CHIMNEYS FROM THE TOP TO THE CAP FLASHING. REMOVE AND REPLACE ALL DETERIORATED AND CRACKED BRICKS (ESTIMATED QUANTITY 200 SQ. FT.). COVER THE ENTIRE CHIMNEY TOP WITH 16 OZ. TIN COATED COPPER CHIMNEY CAP. RIVET AND SOLDER ALL JOINTS.



SECTION 1-1 TYPICAL OVERFLOW DRAINS

0 6"12" 24"

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PROJECT TITLE
PARK AVENUE ELEMENTARY SCHOOL
ROOF REPLACEMENT
82 PARK AVENUE
DANBURY, CT 06810

DRAWING TITLE
ROOF PLAN

DATE	ISSUED TO
7-09-2009	BID
6-23-2009	BSF
6-01-2009	CITY
1-26-2009	90% SUBMISSION

SCALE: AS NOTED
DRAWN BY: F & D
CHECKED BY: F & D
DRAWING NO.: A-1
FILE NO.: 08870.00

DANBURY BID NO. 07-08-10-01
C.T. BUREAU OF SCHOOL FACILITIES PROJECT NO. TEMP 034 - GPVX

PLOT DATE: July 13, 2009 - 3:03pm

FILE: H:\08870.00 Danbury Park Ave. Elementary\DRAWINGS\CURRENT\1-F&D\A-1 Danbury ES Roof Plan.dwg