

ROOF PLAN
0' 4" = 16'



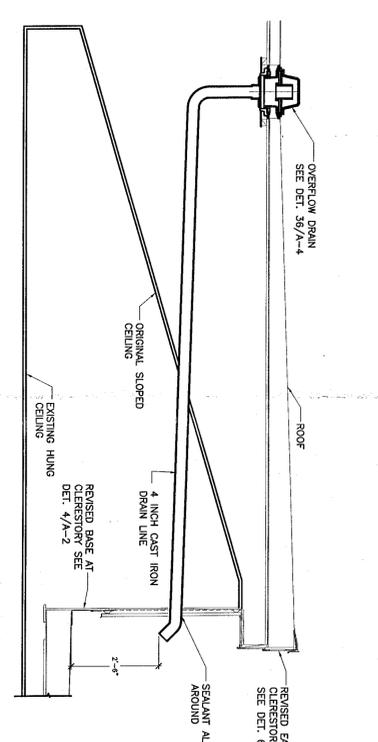
- LEGEND:**
- ▲ ROOF AREA DESIGNATION
 - EXPANSION JOINT (SEE DET. 23/A-2)
 - ROOF DRAIN (SEE DET. 23/A-3)
 - VENT PIPE (SEE DET. 24/A-3 & 25/A-4)
 - EXHAUST FAN (SEE DET. 26/A-4)
 - NEW ROOF HATCH (SEE DET. 28/A-4)
 - NEW ROOF LADDER (SEE DET. 29/A-4)
 - EXISTING SNOW GUARD (SEE DET. 30/A-4)
 - NEW SNOW GUARD (SEE DET. 30/A-4)
 - NEW OVER FLOW DRAIN (SEE DET. 35/A-4)
 - ROOF OVERHANG
 - TAPERED ISOCYANURATE INSULATION, SLOPE 1/2" PER MINIMUM STARTING THICKNESS 1-1/2"
 - TAPERED ISOCYANURATE INSULATION, THICKNESS 1-1/2"
 - CRICKET - SLOPE 1/2" PER FOOT
 - WALKWAY PADS (SEE SECTION 1-1/A-1)

ROOF R-VALUE CALCULATIONS

ROOF AREA	R-VALUE OF DECK TYPE 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"	45.7
B	WOOD	14.7	1.5"	4.5"	42.7
C	WOOD	14.7	1.5"	5"	45.7
D	WOOD	14.7	1.5"	5"	45.7
E	WOOD	14.7	1.5"	5"	45.7
F	WOOD	THIS ROOF IS AN EXTERIOR CANOPY WITH ASPHALT SHINGLES			
G	WOOD	EXISTING ROOF TO REMAIN			
H	WOOD	EXISTING ROOF TO REMAIN			
I	WOOD	EXISTING ROOF TO REMAIN			
J	WOOD	EXISTING ROOF TO REMAIN			

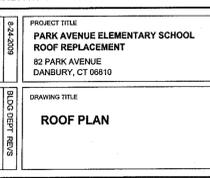
- NOTES:**
- R-VALUE REQUIRED TO MEET 2003 INTERNATIONAL ENERGY CONSERVATION CODE PER TABLE 602.2(7) BUILDING ENVELOPE REQUIREMENTS, CLIMATE ZONE 12A, WINDOW AND DOOR SCHEDULE AREA 40% TO SIZE, R-43
 - R-VALUE OF OTHER COMPONENTS:
 - EXTERIOR AIR FILM = -0.17
 - 60 MIL EPDM MEMBRANE = -0.10
 - 1/4" GYPSUM 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
 - INSTALL TAPERED ISOCYANURATE INSULATION ON AREAS 'X', 'C', AND 'D' TO SLOPE 1/2" PER FOOT.
 - INSTALL TAPERED INSULATION ON AREA 'B' TO SLOPE 1/4" PER FOOT. INSTALL TAPERED INSULATION ON AREA 'E' TO SLOPE 1/4" PER FOOT. THE TAPERED INSULATION AND DECK SHALL MAINTAIN A 10% SLOPE OF 1/2" PER 100".

- NOTES:**
- PERMISSIONS AND CONDITIONS ON THE ROOF PLAN AND DETAILS ARE APPROXIMATE AND MUST BE CORRECTED BY THE CONTRACTOR. REFER TO THE SPECIFICATIONS FOR ADDITIONAL FASTENER REQUIREMENTS.
 - TEST ALL ROOF DRAIN LINES AND UNDERGROUND DRAIN LINES IN AREAS BEING RECOVERED WITH A DRAINING HOSE. FOR AT LEAST ONE HOUR BEFORE THE ROOF IS RECOVERED. THE CONTRACTOR SHALL PROVIDE A WRITTEN REPORT OF ANY CLOGGED LINES. SHOULD THE CONTRACTOR FAIL TO TEST THE DRAIN LINES AND PROVIDE A WRITTEN REPORT OF ANY CLOGGED LINES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETION OF THIS PROJECT, REGARDLESS OF WHETHER WORK IS REQUIRED TO RESTORE THE DRAIN LINES TO CLEAN, CLEAR CONDITION.
 - INSTALL NEW WALKWAY PADS WHERE SHOWN ON THE ROOF PLAN.
 - REPAIR ALL EXISTING EXHAUST FAN/VENTILATOR HOUSINGS TO BE RESTORED.
 - REPAIR OR REPLACE DAMAGED OR DETERIORATED PORTIONS OF THE EXISTING ROOF DESIGN. SEE DET. 30/A-4.
 - SCAPE, PRIME AND PAINT ALL WOOD COMPONENTS AT THE GUTTER DUES AND GABLE END FRAMES ON ROOF AREAS 'F', 'G', AND 'H'.
 - WIRE BRUSH PRIME & PAINT ALL NON-COPPER ROOF TOP EQUIPMENT.
 - REMOVE AND REPLACE EXISTING WALL LOWER WITH NEW ANODIZED ALUMINUM LOWER WITH BIRD AND INSECT SCREEN. MODIFY EXISTING DIVISION AS NEEDED.
 - BASE BID - PERSON REMOVES TO SLATE ROOF AREAS AS INDICATED ON THE ROOF PLAN. ALL EXISTING SLATE SHALL BE RECOVERED. EXISTING ALL CRACKED, BROKEN, OR MISSING SLATE TO RESTORE THE ROOF TO FULLY FUNCTIONAL CONDITION. SLATE WITH MINOR COSMETIC REPAIRS SHALL BE RECOVERED. ALL SLATE WITH MAJOR DAMAGE SHALL BE REPLACED. ALTERNATE BID - REPLACE ALL SLATE AREAS. SEE SPECS.
 - RACE OUT EXISTING MASTERS JOISTS AND REPAIR BATT CHIMNEYS FROM THE TOP TO THE CAP FLASHING. REMOVE AND REPLACE ALL DAMAGED JOISTS AND FLASHINGS. COVER THE ENTIRE CHIMNEY TOP WITH 16 OZ. TIN COATED COPPER CHIMNEY CAP, RIMS AND SOLDER ALL JOINTS.
 - REMOVE EXISTING CHIMNEY BELOW ROOF FRAMING. INSTALL NEW PARTS AND 3/4" PLYWOOD TO IN-fill DECK FLUSH WITH EXISTING.



SECTION 1-1 TYPICAL OVERFLOW DRAINS
0' 6" = 24"

PROJECT TITLE	PARK AVENUE ELEMENTARY SCHOOL ROOF REPLACEMENT
PROJECT ADDRESS	82 PARK AVENUE, DANBURY, CT 06810
DRAWING TITLE	ROOF PLAN
DATE	8/24/09
SCALE	AS NOTED
DESIGNED BY	F&D
DRAWN BY	F&D
CHECKED BY	F&D
PROJECT NO.	0891000
DRAWING NO.	A-1



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