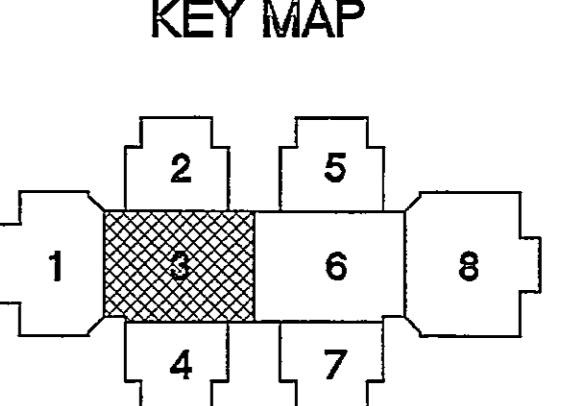


WALL RATING LEGEND

	1 HOUR RATED
	2 HOUR RATED
	1 HOUR RATED AND SMOKE RATED
	2 HOUR RATED AND SMOKE RATED



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AS-BUILT SET
 12/3/01

Project: **SOUTH WEST HIGH SCHOOL
 NATIONS FORD ROAD
 CHARLOTTE MECKLENBURG SCHOOLS**

Sheet Title: **DUCTWORK FLOOR PLAN -
 MEDIA CENTER (BUILDING 3)**

V.P. in Charge
HUBLER, AIA
 Project Engineer/Job Captain
ALMOND, PE

Drawn By
FORD, EIT

Date Drawn
SEPT. 3, 1999

CADD Over Name
001M1-03.DWG

Revisions

No.	Date	Description

Issue Date **3 SEPT. 99**
 Issue Date (BIDS) 14 JUN 99

Project Number
9330

Sheet Of 26
M1-03

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 JOHN W. ALMOND

Project: **SOUTH WEST HIGH SCHOOL**
NATIONS FORD ROAD
CHARLOTTE-MECKLENBURG SCHOOLS

Sheet Title: **ENLARGED FLOOR PLAN - CHILLER/BOILER ROOM**

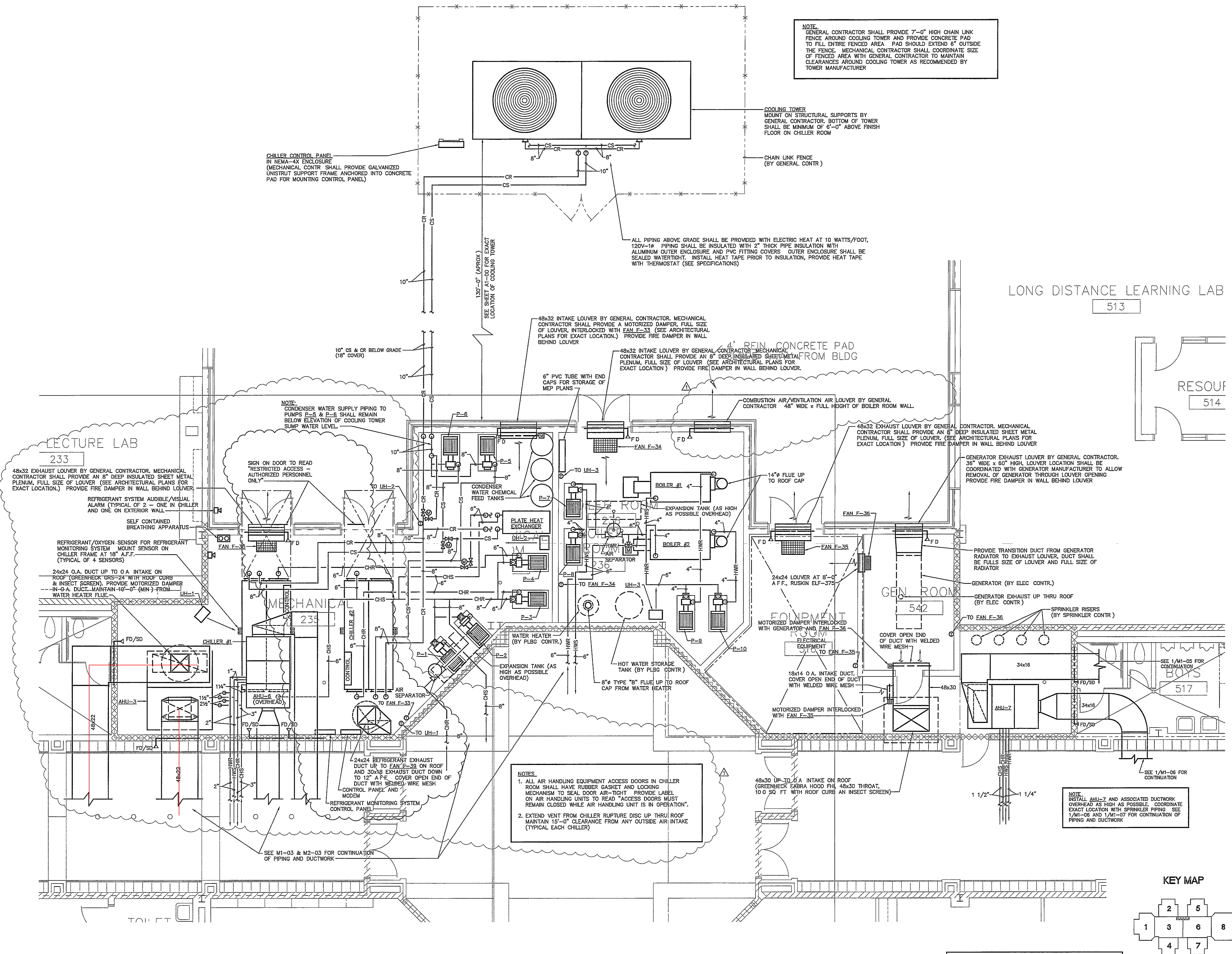
V.P. in Charge
HUBLER, AIA
 Project Engineer/Job Captain
ALMOND, PE

Drawn By: **ALMOND, PE**
 Date Drawn: **SEPT. 3, 1999**
 CADD Dwg Name: **091M3-01.DWG**

Revisions:
 No. 1 Date: 7/14/99
 No. 2 Date: 2/13/01
 No. 3 Date: _____
 No. 4 Date: _____
 No. 5 Date: _____
 No. 6 Date: _____
 No. 7 Date: _____
 No. 8 Date: _____

Issue Date: **3 SEPT. 99**
 Issue Date (BIDS): 14 JUN 99

Project Number: **9330**
 Sheet of 26
M3-01



NOTE:
 GENERAL CONTRACTOR SHALL PROVIDE 7'-0" HIGH CHAIN LINK FENCE AROUND COOLING TOWER AND PROVIDE CONCRETE PAD TO FILL ENTIRE FENCED AREA. PAD SHOULD EXTEND 6' OUTSIDE THE FENCE. MECHANICAL CONTRACTOR SHALL COORDINATE SIZE OF FENCED AREA WITH GENERAL CONTRACTOR TO MAINTAIN CLEARANCES AROUND COOLING TOWER AS RECOMMENDED BY TOWER MANUFACTURER.

COOLING TOWER
 MOUNT ON STRUCTURAL SUPPORTS BY GENERAL CONTRACTOR. BOTTOM OF TOWER SHALL BE MINIMUM OF 6'-0" ABOVE FINISH FLOOR ON CHILLER ROOM.

CHILLER CONTROL PANEL
 IN NEMA-4X ENCLOSURE (MECHANICAL CONTR SHALL PROVIDE GALVANIZED UNISTRUT SUPPORT FRAME ANCHORED INTO CONCRETE PAD FOR MOUNTING CONTROL PANEL)

ALL PIPING ABOVE GRADE SHALL BE PROVIDED WITH ELECTRIC HEAT AT 10 WATTS/FOOT. 120V-1Ø PIPING SHALL BE INSULATED WITH 2" THICK PIPE INSULATION WITH ALUMINUM OUTER ENCLOSURE AND PVC FITTING COVERS. OUTER ENCLOSURE SHALL BE SEALED WATER TIGHT. INSTALL HEAT TAPE PRIOR TO INSULATION, PROVIDE HEAT TAPE WITH THERMOSTAT (SEE SPECIFICATIONS)

48x32 INTAKE LOUVER BY GENERAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL PROVIDE A MOTORIZED DAMPER, FULL SIZE OF LOUVER, INTERLOCKED WITH FAN F-33 (SEE ARCHITECTURAL PLANS FOR EXACT LOCATION). PROVIDE FIRE DAMPER IN WALL BEHIND LOUVER.

48x32 INTAKE LOUVER BY GENERAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL PROVIDE AN 8" DEEP INSULATED SHEET METAL FROM BLDG PLENUM, FULL SIZE OF LOUVER (SEE ARCHITECTURAL PLANS FOR EXACT LOCATION). PROVIDE FIRE DAMPER IN WALL BEHIND LOUVER.

COMBUSTION AIR/VENTILATION AIR LOUVER BY GENERAL CONTRACTOR. 48" WIDE x FULL HEIGHT OF BOILER ROOM WALL.

48x32 EXHAUST LOUVER BY GENERAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL PROVIDE AN 8" DEEP INSULATED SHEET METAL PLENUM, FULL SIZE OF LOUVER (SEE ARCHITECTURAL PLANS FOR EXACT LOCATION). PROVIDE FIRE DAMPER IN WALL BEHIND LOUVER.

GENERATOR EXHAUST LOUVER BY GENERAL CONTRACTOR. 36" WIDE x 60" HIGH, LOUVER LOCATION SHALL BE COORDINATED WITH GENERATOR MANUFACTURER TO ALLOW REMOVAL OF GENERATOR THROUGH LOUVER OPENING. PROVIDE FIRE DAMPER IN WALL BEHIND LOUVER.

LECTURE LAB
 233

48x32 EXHAUST LOUVER BY GENERAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL PROVIDE AN 8" DEEP INSULATED SHEET METAL PLENUM, FULL SIZE OF LOUVER (SEE ARCHITECTURAL PLANS FOR EXACT LOCATION). PROVIDE FIRE DAMPER IN WALL BEHIND LOUVER.

REFRIGERANT SYSTEM AUDIBLE/VISUAL ALARM (TYPICAL OF 2 - ONE IN CHILLER AND ONE ON EXTERIOR WALL).

SELF CONTAINED BREATHING APPARATUS.

REFRIGERANT/OXYGEN SENSOR FOR REFRIGERANT MONITORING SYSTEM. MOUNT SENSOR ON CHILLER FRAME AT 18" A.F.F. (TYPICAL OF 4 SENSORS).

24x24 O.A. DUCT UP TO O.A. INTAKE ON ROOF (GREENHECK GRS-24 WITH ROOF CURB & INSECT SCREEN). PROVIDE MOTORIZED DAMPER IN O.A. DUCT. MAINTAIN 10'-0" (MIN.) FROM WATER HEATER FLUE.

NOTE:
 CONDENSER WATER SUPPLY PIPING TO PUMPS P-5 & P-8 SHALL REMAIN BELOW ELEVATION OF COOLING TOWER SUMP WATER LEVEL.

SIGN ON DOOR TO READ "RESTRICTED ACCESS - AUTHORIZED PERSONNEL ONLY".

NOTES:
 1. ALL AIR HANDLING EQUIPMENT ACCESS DOORS IN CHILLER ROOM SHALL HAVE RUBBER GASKET AND LOCKING MECHANISM TO SEAL DOOR AIR-TIGHT. PROVIDE LABEL ON AIR HANDLING UNITS TO READ "ACCESS DOORS MUST REMAIN CLOSED WHILE AIR HANDLING UNIT IS IN OPERATION".
 2. EXTEND VENT FROM CHILLER RUPTURE DISC UP THRU ROOF MAINTAIN 15'-0" CLEARANCE FROM ANY OUTSIDE AIR INTAKE (TYPICAL EACH CHILLER).

NOTE:
 INSTALL AHU-7 AND ASSOCIATED DUCTWORK OVERHEAD AS HIGH AS POSSIBLE. COORDINATE EXACT LOCATION WITH SPRINKLER PIPING. SEE 1/M1-05 AND 1/M1-07 FOR CONTINUATION OF PIPING AND DUCTWORK.

1 ENLARGED CHILLER/BOILER/ELECTRICAL ROOMS
 1/4" = 1'-0"

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