

KEY NOTES

NOTES: FLASHING AND COUNTER FLASHING AS REQUIRED BY THE METAL PROVIDE ROOF COMPANY.

1. EXTEND EXISTING PLUMBING VENT THROUGH NEW METAL ROOF. SIZE AS INDICATED.
2. EXTEND EXISTING 16 X 16 DUCT THROUGH NEW METAL ROOF AND PROVIDE COWL WITH BIRD SCREEN.
3. EXTEND 6 X 6 DUCT THROUGH THE METAL ROOF AND PROVIDE COWL WITH BIRD SCREEN.
4. REMOVE EXISTING EXHAUST FAN AND CAP OPENING. WITH SHEET METAL.
5. EXISTING ROOF VENT TO REMAIN.

6. REMOVE EXISTING KITCHEN EXHAUST FAN AND EXTEND 24 X 24 DUCT, ALL WELDED, THROUGH NEW ROOF AND PROVIDE NEW FAN ON NEW ROOF CURB. EXTEND ELECTRICAL SERVICE TO FAN. THE FAN SHALL BE 5 HP, 230/460V, 3 PH. VERIFY POWER PRIOR TO ANY WORK. FAN SHALL BE 6000 CFM, 1 IN. STATIC PRESSURE. PROVIDE SUPPORT FOR NEW FAN ON NEW ROOF.
7. 12" DIAMETER FLUE TO BE EXTENDED MINIMUM THREE FEET ABOVE NEW ROOF. IT SHALL MEET NFPA-54.
8. PLUMBING ROOF VENT EXTEND AS REQUIRED FOR NEW FLAT ROOF.
9. ROOF DRAIN LINE SHALL BE REMOVED AND REINSTALLED AS REQUIRED TO RE-ROOF. PROVIDE ADDITIONAL PIPES REQUIRED.
10. REMOVE EXISTING EXHAUST FAN AND EXTEND EXISTING 18" X 18" DUCT AND PROVIDE NEW FAN WITH EQUAL CAPACITY. EXTEND ELECTRICAL CONDUIT AND PROVIDE NEW DISCONNECT SWITCH. ESTIMATED CAPACITY IS 3000 CFM WITH .5" STATIC PRESSURE. DATA SHALL BE FIELD VERIFY PRIOR TO COMMENCING WORK.

11. EXISTING BOILER FLUE SHALL BE FLASHING AND COUNTER FLASHING AS REQUIRED TO RE-ROOFING.
12. EXTEND 14 X 14 COWL AS REQUIRED TO RE-ROOFING.
13. EXTEND 10 X 6 COWL AS REQUIRED TO RE-ROOFING.
14. OFFSET NEW CHILL AND HOT WATER PIPES WHERE EXISTING LOOP INTERFERENCE. CUT EXISTING LOOP PIPES AND LOWER TEMPORARY TO KEEP SYSTEM OPERATION ALL THE TIME WHILE REPLACING THE EXISTING SYSTEM.

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PHASES OF WORK:

NOTE: BEFORE ANY PHASES OF WORK, INSTALL NEW CHILLED AND HOT WATER MAINS FROM PUMP ROOM TO AREAS "A" AND "B" AND BRANCH LINES WITH VALVES AND CAP MAINS FOR AREAS "C", "D", "E" AND "F" AND BRANCH LINES FOR AREAS "A" AND "B". PROVIDE ISOLATION VALVES AS REQUIRED FOR EACH PHASE OF WORK.

PHASE-1: INSTALL BRANCH PIPING TO "AHUS" SERVING EIGHT CLASSROOMS IN SECTION-1 OF AREA "A". PUT EIGHT "AHUS" IN OPERATION. BY NEW PIPING SYSTEM AND REMOVE ALL EXISTING PIPING SERVING EXISTING FAN COIL UNITS IN SAME AREA AND CAP EXISTING PIPING TO MAKE OTHER AREA IN OPERATION.

PHASE-2: INSTALL BRANCH PIPING TO "AHUS" SERVING EIGHT CLASSROOMS IN SECTION-1 OF AREA "B". PUT EIGHT "AHUS" IN OPERATION SAME AS PHASE-1. PROVIDE TEMPORARY ISOLATION VALVES FOR THE PHASE OF WORK.

PHASE-3: INSTALL BRANCH PIPING TO "AHUS" SERVING EIGHT CLASSROOMS IN SECTION-1 OF AREA "B". PUT EIGHT "AHUS" IN OPERATION SAME AS PHASE-3. PROVIDE TEMPORARY ISOLATION VALVES FOR THE PHASE OF WORK.

PHASE-4: INSTALL BRANCH PIPING TO "AHUS" SERVING EIGHT CLASSROOMS IN SECTION-2 OF AREA "B". PUT EIGHT "AHUS" IN OPERATION. PROVIDE TEMPORARY ISOLATION VALVES FOR PHASE OF WORK.

NOTE: EXTEND NEW MAINS PIPING TO SERVE AREAS "C", "D", "E" AND "F". PROVIDE TEMPORARY ISOLATION VALVES FOR THE PHASE OF WORK.

PHASE-5: INSTALL BRANCH PIPING TO "AHUS" SERVING CLASSROOMS UNITS IN SECTION-1 OF AREA "D". PROVIDE TEMPORARY ISOLATION VALVES FOR THE PHASE OF WORK.

PHASE-6: INSTALL BRANCH PIPING TO "AHU" AND UNIT HEATERS IN AREA "F". USE EXISTING ISOLATION VALVES FOR THE PHASE OF WORK.

PHASE-7: INSTALL BRANCH PIPING TO "AHUS" SERVING CLASSROOMS UNITS IN SECTION-2 OF AREA "D". PROVIDE TEMPORARY ISOLATION VALVE FOR THE PHASE OF WORK.

PHASE-8: INSTALL BRANCH PIPING TO "AHUS" SERVING CLASSROOMS UNITS IN SECTION-3 OF AREA "D". PROVIDE TEMPORARY ISOLATION VALVES FOR THE PHASE OF WORK.

PHASE-9: INSTALL BRANCH PIPING TO SERVE AREA "E" "AHUS". USE EXISTING ISOLATION VALVES FOR THIS PHASE OF WORK.

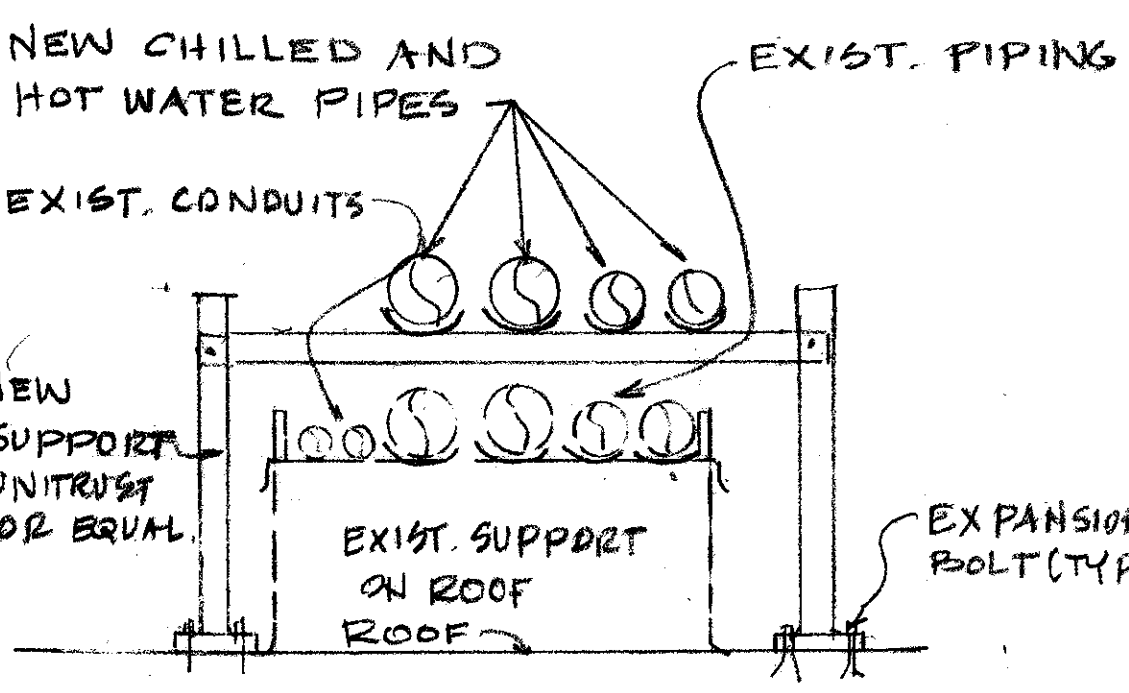
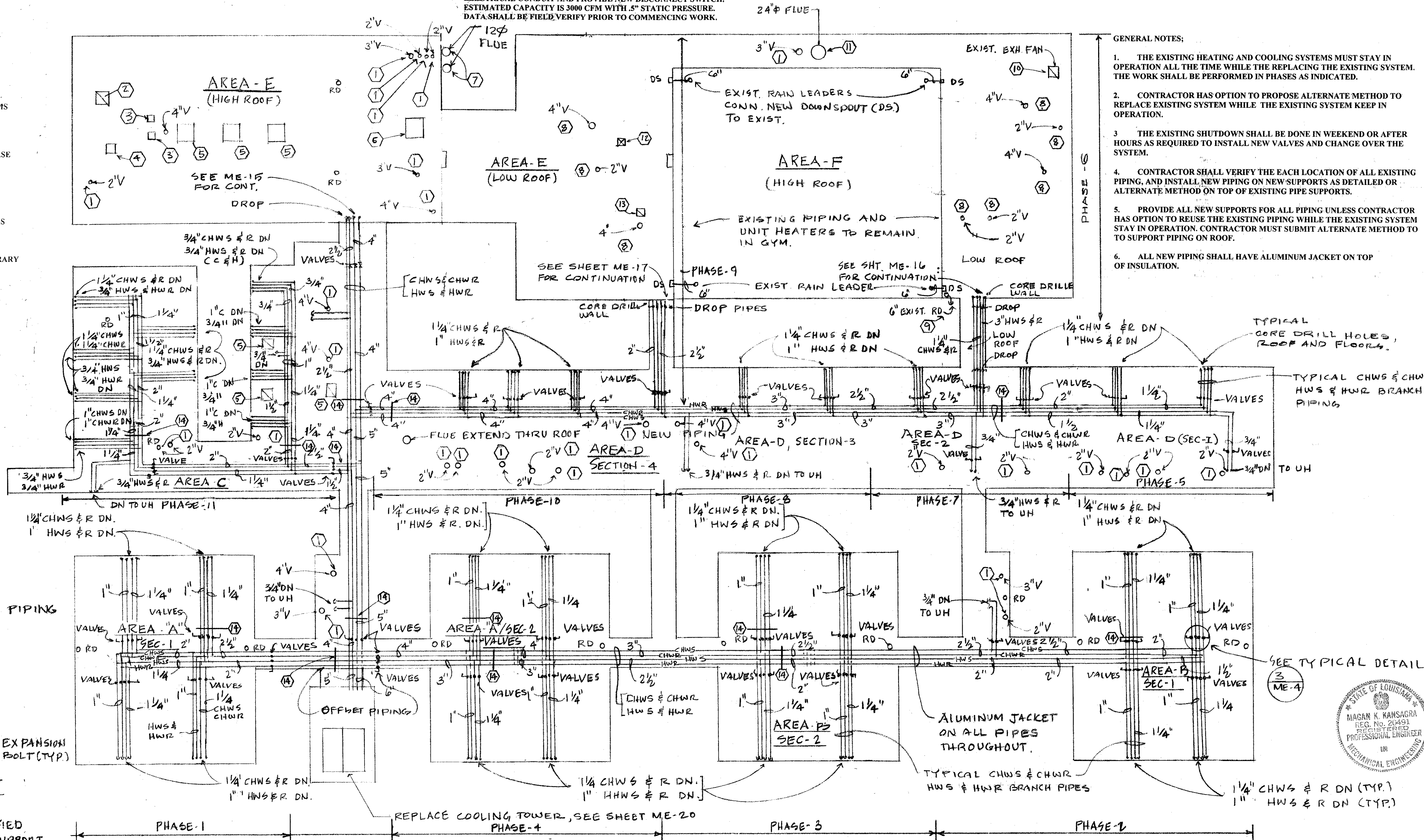
PHASE-10: INSTALL BRANCH PIPING TO SERVE SECTION-4 OF AREA "D". USE EXISTING ISOLATION VALVES FOR THIS PHASE OF WORK.

PHASE-11: INSTALL BRANCH PIPING TO SERVE AREA "C". USE EXISTING ISOLATION VALVES FOR THIS AREA OF WORK.

PHASE-12: INSTALL BRANCH PIPING TO SERVE AREA "E". USE EXISTING ISOLATION VALVES FOR THIS PHASE OF WORK.

GENERAL NOTES:

1. THE EXISTING HEATING AND COOLING SYSTEMS MUST STAY IN OPERATION ALL THE TIME WHILE THE REPLACING THE EXISTING SYSTEM. THE WORK SHALL BE PERFORMED IN PHASES AS INDICATED.
2. CONTRACTOR HAS OPTION TO PROPOSE ALTERNATE METHOD TO REPLACE EXISTING SYSTEM WHILE THE EXISTING SYSTEM KEEP IN OPERATION.
3. THE EXISTING SHUTDOWN SHALL BE DONE IN WEEKEND OR AFTER HOURS AS REQUIRED TO INSTALL NEW VALVES AND CHANGE OVER THE SYSTEM.
4. CONTRACTOR SHALL VERIFY THE EACH LOCATION OF ALL EXISTING PIPING, AND INSTALL NEW PIPING ON NEW SUPPORTS AS DETAILED OR ALTERNATE METHOD ON TOP OF EXISTING PIPE SUPPORTS.
5. PROVIDE ALL NEW SUPPORTS FOR ALL PIPING UNLESS CONTRACTOR HAS OPTION TO REUSE THE EXISTING PIPING WHILE THE EXISTING SYSTEM STAY IN OPERATION. CONTRACTOR MUST SUBMIT ALTERNATE METHOD TO SUPPORT PIPING ON ROOF.
6. ALL NEW PIPING SHALL HAVE ALUMINUM JACKET ON TOP OF INSULATION.

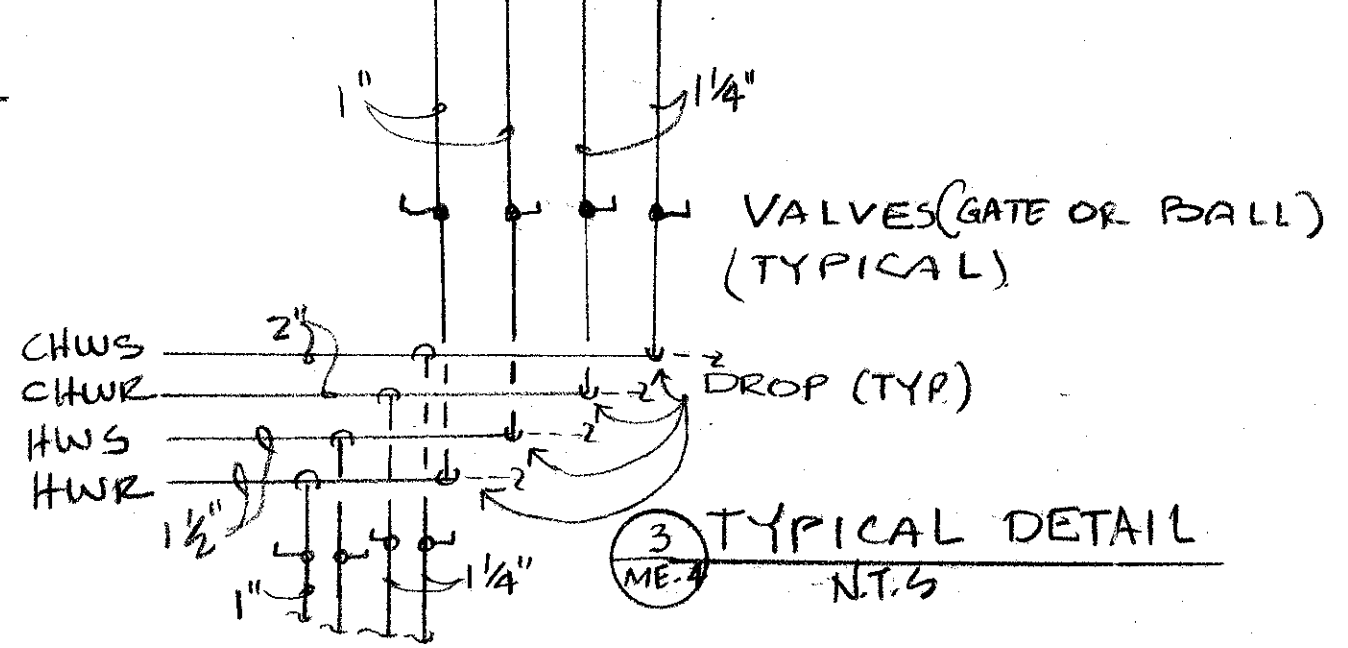


NOTE: SUPPORT EVERY 10 FT. OR AS SPECIFIED IN SPEC. CONTRACTOR MUST SUBMIT SUPPORT DETAIL PRIOR TO COMMENCING ANY WORK.

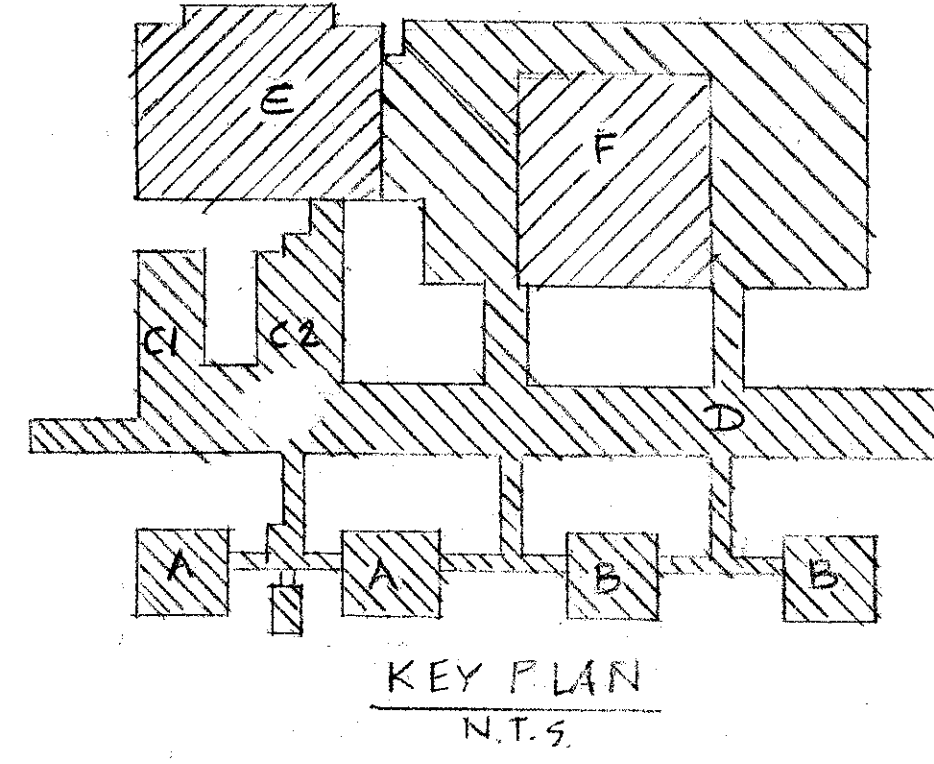
TYPICAL PIPE SUPPORT ON ROOF
 ME-4 N.T.S.

ROOF PLAN-PIPING
 ME-4 SCALE: 1" = 20'-0"

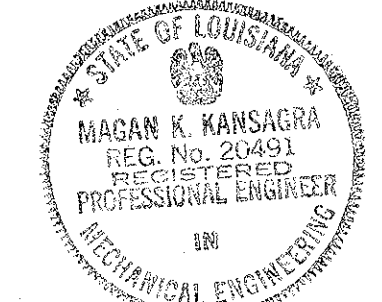
- NOTE:
1. ALL ROOF PENETRATION ON FLAT ROOF SHALL BE ADJUSTED
 2. EXIST. PLUMBING VENTS SHALL BE EXTENDED THROUGH NEW METAL ROOF



TYPICAL DETAIL
 ME-4 N.T.S.



KEY PLAN
 N.T.S.



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PROJECT
CARTER G. WOODSON MIDDLE SCHOOL
 RE-ROOFING & MECHANICAL REPAIRS

DRAWN
 CHECKED
 MK
 DATE
 4-21-97
 SCALE
 AS NOTED
 JOB NO.

SHEET
ME-4
 OF 22 SHEETS