# DRAWING INDEX

CONCRETE
BLOCK
BRICK
CUT STONE
SLATE
MARBLE
GLAZED FACING TILE
PLASTER
TERRAZZO
INSULATION
SHEET METAL MASTIC
GLASS
ROUGH WOOD
FINISH WOOD
STEEL
EARTH
GRAVEL
CRUSHED STONE

## MECHANICAL

| SHEET NO. | DRAWING TITLE |
|---|---|
| M-1 | FOUNDATION & FOOTING PLAN - AREA A PLUMBING |
| M-2 | FLOOR PLAN - AREA A - PLUMBING |
| M-3 | FOUNDATION & FOOTING PLAN - AREA B PLUMBING |
| M-4 | FLOOR PLAN - AREA B - PLUMBING |
| M-5 | FOUNDATION & FOOTING PLAN - AREA C PLUMBING |
| M-6 | FLOOR PLAN - AREA C - PLUMBING |
| M-7 | FOUNDATION & FOOTING PLAN - AREA D PLUMBING |
| M-8 | FLOOR PLAN - AREA D - PLUMBING |
| M-9 | FOUNDATION & FOOTING PLAN - AREA E PLUMBING |
| M-10 | FLOOR PLAN - AREA E - PLUMBING |
| M-11 | FOUNDATION & FOOTING PLAN - AREA F PLUMBING |
| M-12 | FLOOR PLAN - AREA F - PLUMBING |
| M-13 | SANITARY ISOMETRICS - AREAS B, D, F |
| M-14 | SANITARY ISOMETRICS - AREAS UNDER STAGE & E |
| M-15 | KITCHEN FLOOR PLAN - PLUMBING |
| M-16 | LABORATORY TABLE PIPING DETAILS |
| M-17 | FLOOR PLAN - AREA A - HEATING & AIR CONDITIONING |
| M-18 | FLOOR PLAN - AREA B - HEATING & AIR CONDITIONING |
| M-19 | FLOOR PLAN - AREA C - HEATING & AIR CONDITIONING |
| M-20 | FLOOR PLAN - AREA D - HEATING & AIR CONDITIONING |
| M-21 | FLOOR PLAN - AREA E - HEATING & AIR CONDITIONING |
| M-22 | FLOOR PLAN - AREA F - HEATING & VENTILATING |
| M-23 | FLOOR PLAN - AREA F - HEATING & VENTILATING |
| M-24 | BOILER ROOM PLAN |
| M-25 | BOILER ROOM PLAN |
| M-26 | PENTHOUSE #1 - AREA A & B HEATING & AIR CONDITIONING |
| M-27 | PENTHOUSE #2 - AREA A & B HEATING & AIR CONDITIONING |
| M-28 | PENTHOUSE #3 - AREA C & D HEATING & AIR CONDITIONING |
| M-29 | HEATING & VENTILATING DETAILS AREA F |
| M-30 | HEATING & VENTILATING DETAILS |
| M-31 | HEATING & VENTILATING DETAILS AREA E |
| M-32 | HEATING, VENTILATING & AIR CONDITIONING EQUIPMENT SCHEDULES |

## STRUCTURAL

| SHEET NO. | DRAWING TITLE |
|---|---|
| S-1 | FOUNDATION PLAN - AREA A |
| S-2 | FOUNDATION PLAN - AREA B |
| S-3 | FOUNDATION PLAN - AREA C |
| S-4 | FOUNDATION PLAN - AREA D |
| S-5 | FOUNDATION PLAN - AREA E |
| S-6 | FOUNDATION PLAN - AREA F |
| S-7 | CONCRETE DETAILS - PEDESTAL & FOOTING SCHEDULE |
| S-8 | ROOF FRAMING PLAN - AREA A |
| S-9 | ROOF FRAMING PLAN - AREA B |
| S-10 | ROOF FRAMING PLAN - AREA C |
| S-11 | ROOF FRAMING PLAN - AREA D |
| S-12 | ROOF FRAMING PLAN - AREA E |
| S-13 | ROOF FRAMING PLAN - AREA F |
| S-14 | CANOPY & PENTHOUSE FRAMING PLANS |
| S-15 | STRUCTURAL DETAILS |

## ELECTRICAL

| | |
|---|---|
| E-1 | PLOT PLAN & TRANSFORMER VAULT DETAILS |
| E-2 | RISER DIAGRAM, FIXTURE SCHEDULE & DETAILS |
| E-3 | FLOOR PLAN - AREA A |
| E-4 | FLOOR PLAN - AREA A |
| E-5 | FLOOR PLAN - AREA B |
| E-6 | FLOOR PLAN - AREA B |
| E-7 | FLOOR PLAN - AREA C |
| E-8 | FLOOR PLAN - AREA C |
| E-9 | FLOOR PLAN - AREA D |
| E-10 | FLOOR PLAN - AREA D |
| E-11 | FLOOR PLAN - AREA E |
| E-12 | FLOOR PLAN - AREA E |
| E-13 | FLOOR PLAN - AREA F |
| E-14 | FLOOR PLAN - AREA F |
| E-15 | ENLARGED KITCHEN & DISHWASHING AREA PLANS |
| E-16 | PENTHOUSE FLOOR PLANS PROJECTION BOOTH |

## ARCHITECTURAL

| SHEET NO. | DRAWING TITLE |
|---|---|
| 1 | SITE PLAN & SIGN DETAILS |
| 2 | GRADING PLAN |
| 2-A | STORM SEWER PROFILE |
| 3 | SITE DETAILS |
| 4 | FLOOR PLAN - AREA A |
| 5 | FLOOR PLAN - AREA B |
| 6 | FLOOR PLAN - AREA C |
| 7 | FLOOR PLAN - AREA D |
| 8 | FLOOR PLAN - AREA E |
| 9 | FLOOR PLAN - AREA F |
| 10 | ROOF PLAN - AREAS A, B, C, D |
| 11 | ROOF PLAN - AREAS E, F & COURT PLAN & MISC. DETAILS |
| 12 | ELEVATIONS |
| 13 | ELEVATIONS |
| 14 | ELEVATIONS |
| 15 | ELEVATIONS & COURT ELEVATIONS |
| 16 | WALL SECTIONS & DETAILS |
| 17 | WALL SECTIONS & DETAILS - COOLING TOWER PANEL DETAILS |
| 18 | WALL SECTIONS & DETAILS |
| 19 | WALL SECTIONS & DETAILS |
| 20 | WALL SECTIONS & DETAILS |
| 21 | WALL SECTIONS & DETAILS - CURTAIN WALL TYPES & DETAILS |
| 22 | WALL SECTIONS & DETAILS |
| 23 | ROOM FINISH SCHEDULE - PENTHOUSE PLANS |
| 24 | MUSIC DEPARTMENT - ELEVATIONS DETAILS |
| 25 | INTERIOR ELEVATIONS & DETA |
| 26 | INTERIOR ELEVATIONS & DETA |
| 27 | MOVABLE PARTITIONS |
| 28 | INTERIOR ELEVATIONS - AREA E |
| 29 | SECTIONS & DETAILS - AREA E, F |
| 30 | DOORS & FRAMES |
| 31 | EXPANSION JOINTS |
| 32 | STAIR DETAILS & LADDER DETAILS |
| 33 | REFLECTED AUDITORIUM CEILING & DETAILS |
| 34 | BUILDING SECTIONS |
| P-1 | SWIMMING POOL SECTIO DETAILS |
| P-2 | SWIMMING POOL SCHE MECHANICAL, SECTION |

WILSON L. FORD REGISTERED No. 799 STATE OF INDIANA ARCHITECT

JOSEPH C. MATTHEWS REGISTERED No. 7447 STATE OF INDIANA PROFESSIONAL ENGINEER

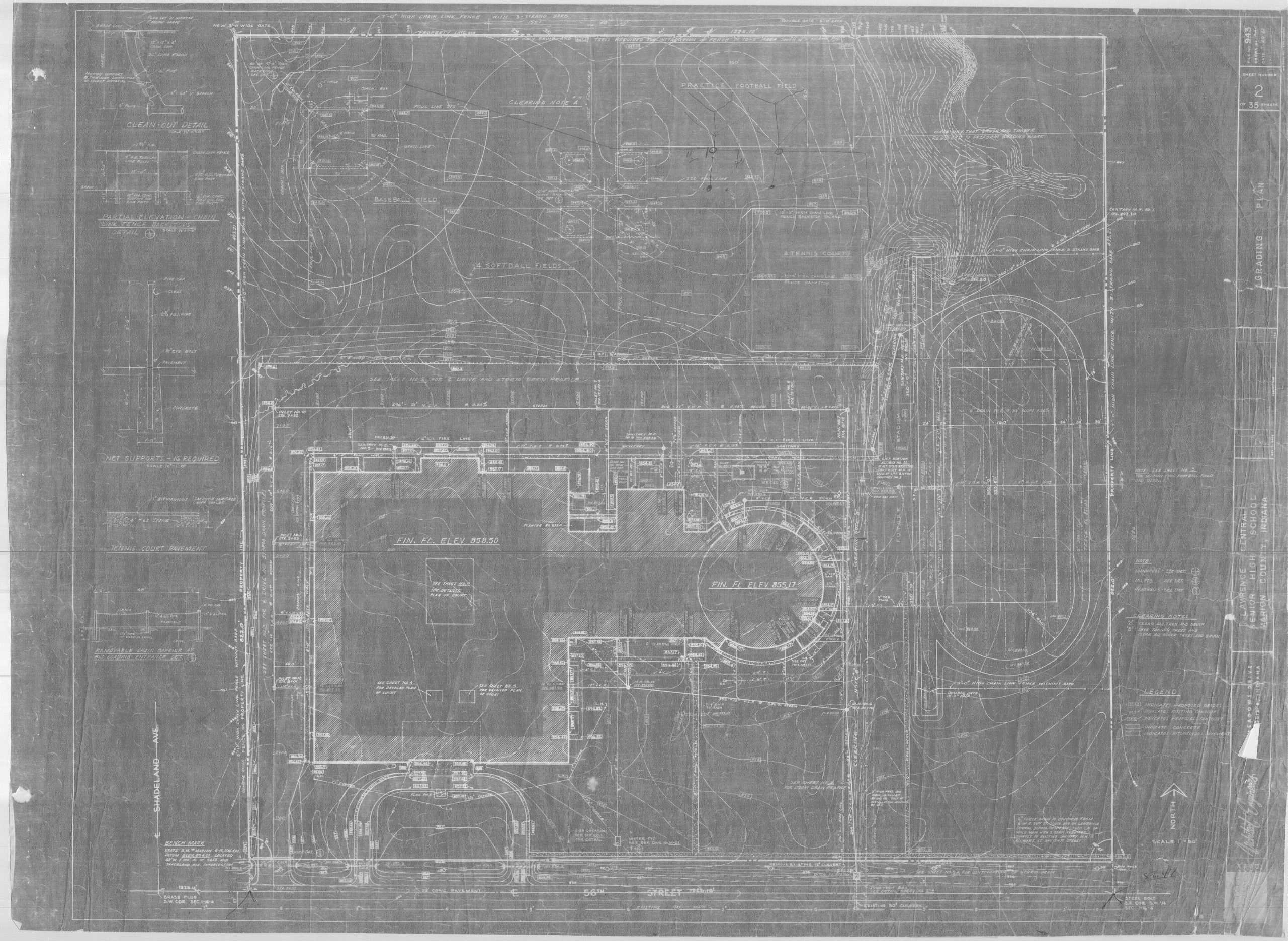
PAUL E. CHRISTY REGISTERED No. 1251 STATE OF INDIANA ARCHITECT

ROBERT H. BAILEY REGISTERED No. 1251 STATE OF INDIANA ARCHITECT

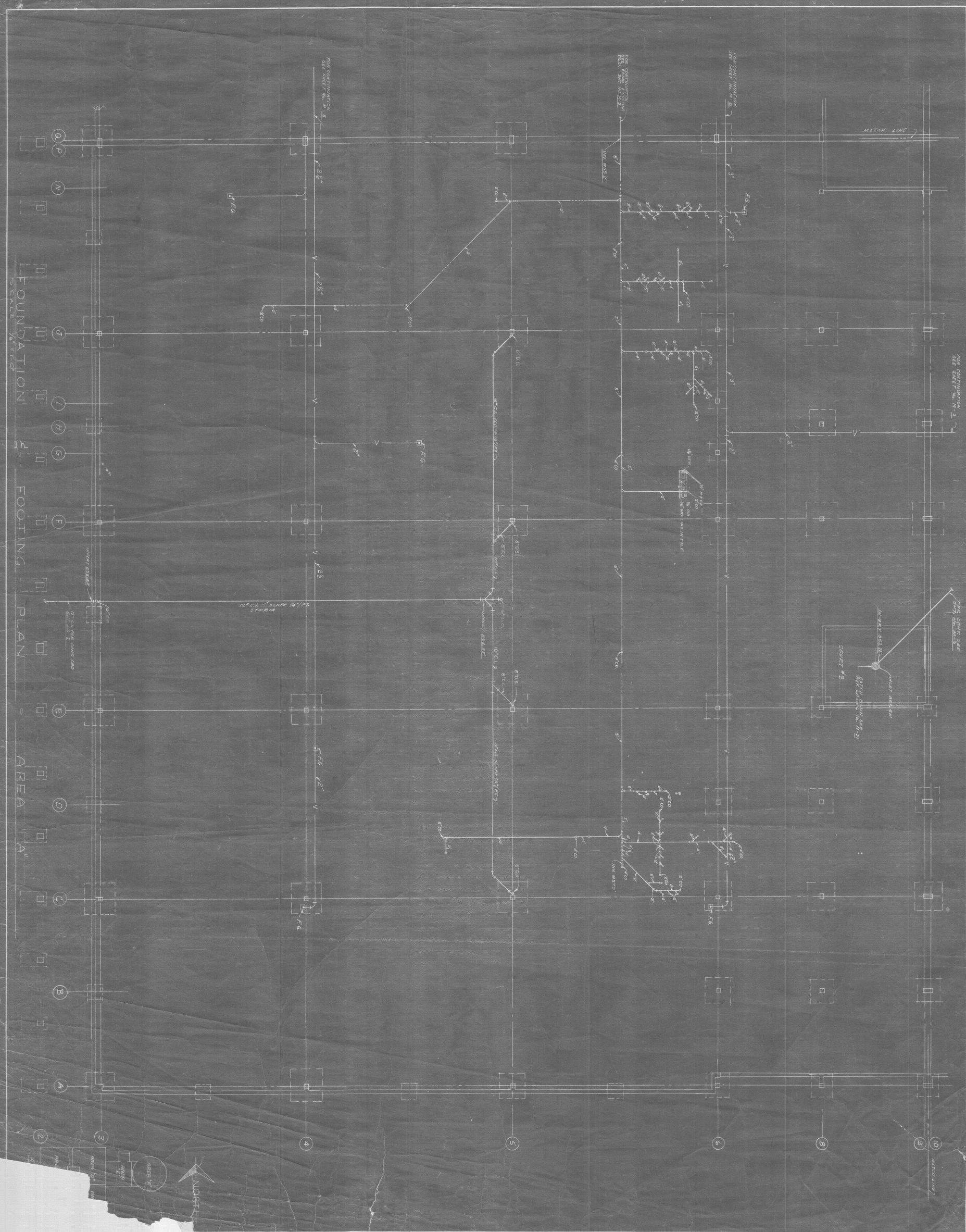
RH Bailey

FILE NO. 943
DRAWN BY SAE
DATE 7-8-61
REV. SEE

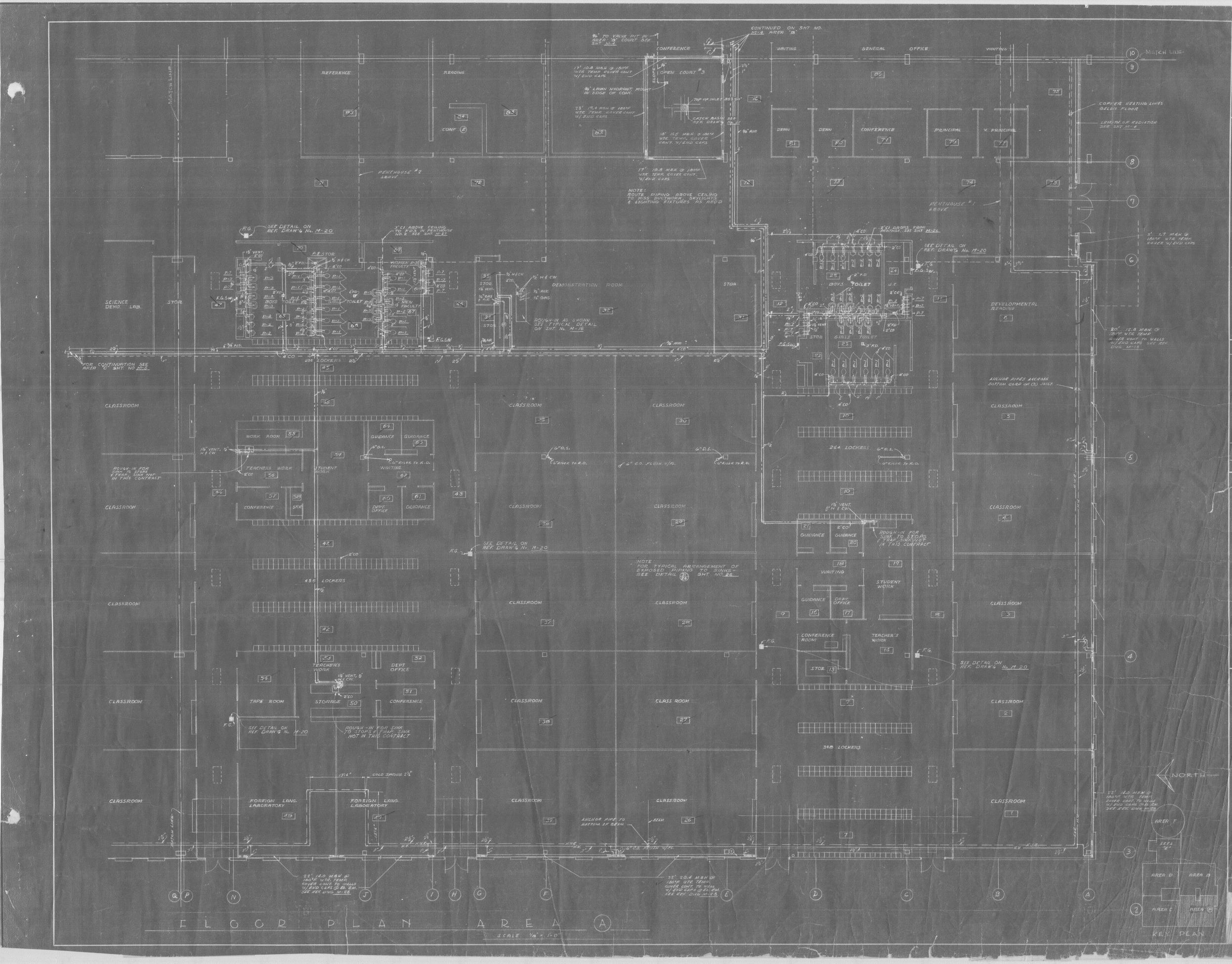
INDEX SHEET - SYMBOLS



SHEET NUMBER
2
OF 35 SHEETS
GRADING PLAN
LAWRENCE CENTRAL SENIOR HIGH SCHOOL
MARION COUNTY, INDIANA
PRACTICE FOOTBALL FIELD
CLEARING NOTE "A"
BASEBALL FIELD
4 SOFTBALL FIELDS
8 TENNIS COURTS
CLEAN-OUT DETAIL
PARTIAL ELEVATION - CHAIN LINK FENCE BACKSTOPS
NET SUPPORTS - 16 REQUIRED
TENNIS COURT PAVEMENT
REMOVABLE CHAIN BARRIER AT BUS LOADING ENTRANCE DET.
FIN. FL. ELEV. 858.50
FIN. FL. ELEV. 855.17
SHADELAND AVE.
56TH STREET
BENCH MARK
LEGEND
NORTH
SCALE 1" = 30'




| | | | | | |
|---|---|---|---|---|---|
| 9 MEADOWS DRIVE<br>DIANAPOLIS 5, INDIANA | LAWRENCE CENTRAL<br>SENIOR HIGH SCHOOL<br>MARION COUNTY, INDIANA | REV / DATE / DESCRIPTION / CKD | PLUMBING FOUNDATION & FOOTING PLAN<br>AREA "A" | SHEET NUMBER M-1 OF SHEETS | FILE NO. 943<br>DRAWN BY R.K. & J.B.<br>DATE 7-20-61<br>REV. R.L.S. |




FILE NO. 943
DRAWN BY P.K.
DATE 7-20-61
REV. R.J.S.

SHEET NUMBER
M-2
OF SHEETS

FLOOR PLAN AREA "A" - PLUMBING

LAWRENCE CENTRAL
SENIOR HIGH SCHOOL
MARION COUNTY

3949 MEADOWS DRIVE
INDIANAPOLIS 5, INDIANA

Lennox
Matthews
Simmons
Ford
Architect Engineers

# PLUMBING FOUNDATION & FOOTING PLAN AREA "B"

SCALE 1/8" = 1'-0"

KEY PLAN

NORTH

Lennox Matthews Simmons Ford

Architect Engineers

3949 MEADOWS DRIVE
INDIANAPOLIS 5, INDIANA

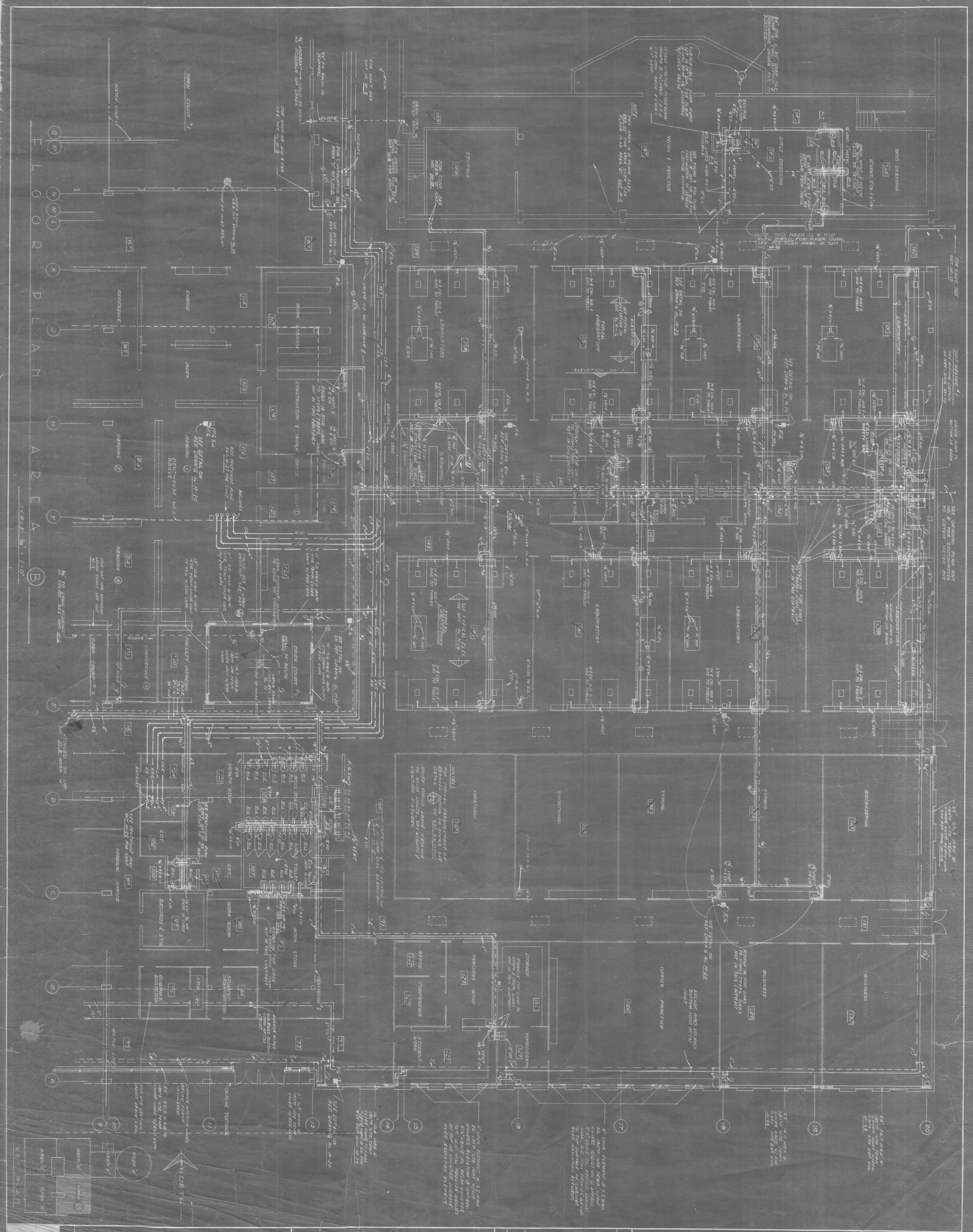
LAWRENCE CENTRAL
SENIOR HIGH SCHOOL
MARION COUNTY, INDIANA

| REV | DATE | DESCRIPTION | CKD |
|---|---|---|---|

PLUMBING FOUNDATION & FOOTING PLAN
AREA "B"

SHEET NUMBER M-3 OF SHEETS

FILE NO. 943
DRAWN BY P.H. & J.B.
DATE 7-20-61
REV. R.L.S.




Lennox Matthews Simmons Ford

Architect Engineers

3949 MEADOWS DRIVE
INDIANAPOLIS 5, INDIANA

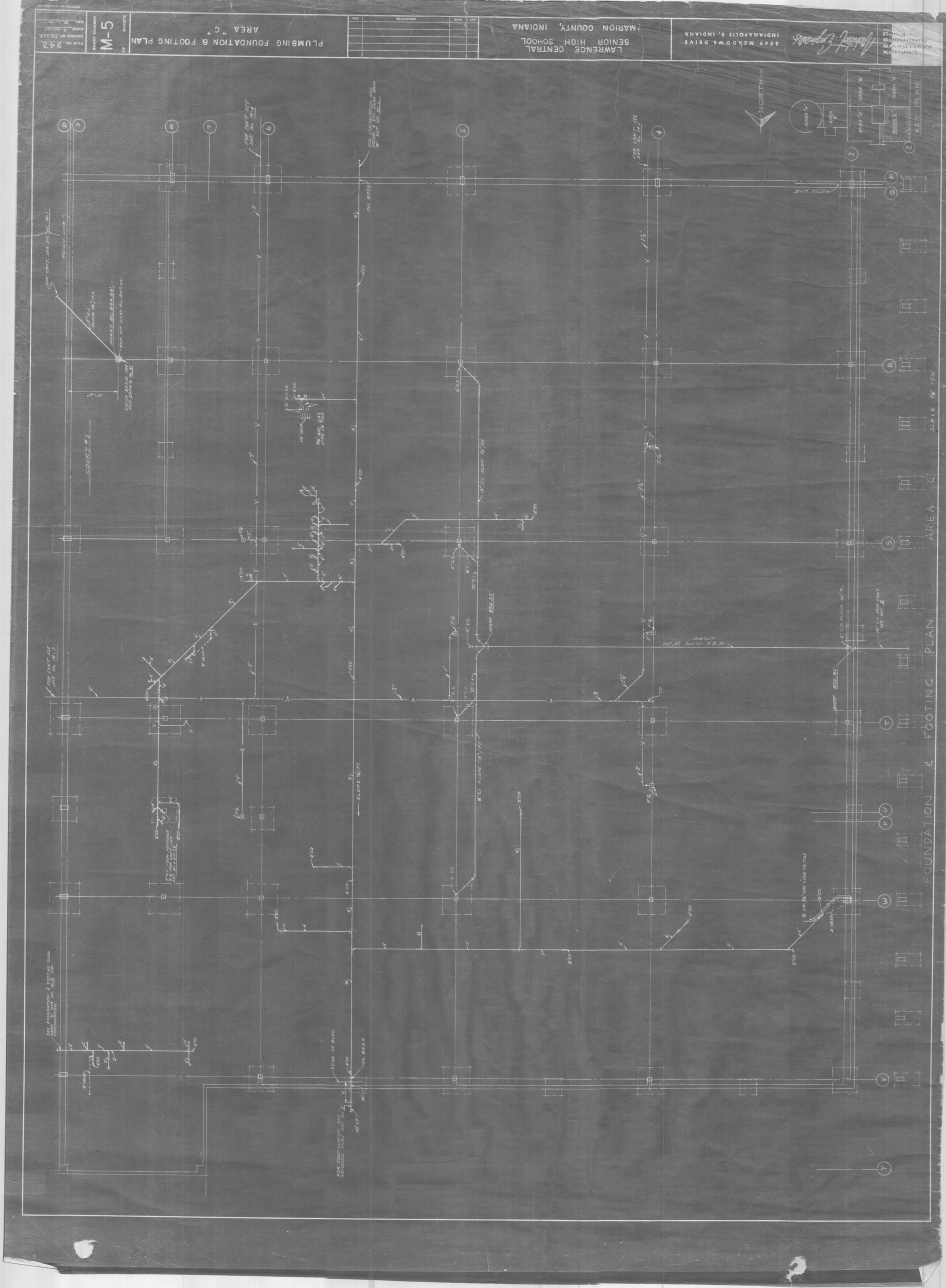
LAWRENCE CENTRAL
SENIOR HIGH SCHOOL
MARION COUNTY, INDIANA

| REV. | DATE | DESCRIPTION | CKD |
|---|---|---|---|

FLOOR PLAN AREA "B"-PLUMBING

SHEET NUMBER M-4 OF SHEETS

FILE NO. 943
DRAWN BY P.K.
DATE 7-20-61
REV. R.L.S.



PLUMBING FOUNDATION & FOOTING PLAN
AREA "C"
LAWRENCE CENTRAL
SENIOR HIGH SCHOOL
MARION COUNTY, INDIANA
3949 MEADOWS DRIVE
INDIANAPOLIS 5, INDIANA
Lennox Matthews Simmons Ford
SHEET NUMBER
M-5
OF SHEETS
FILE NO. 943
DRAWN BY P.K. 4-1-61
DATE 7-20-61
REV. R.L.S.
NORTH
KEY PLAN
AREA "C"
FOUNDATION & FOOTING PLAN
SCALE 1/8" = 1'-0"
COURT #1
MATCH LINE
SLOPE 1/8" FT.
EDGE OF BLDG.

FLOOR PLAN AREA "C" - PLUMBING

FILE NO. 943
DRAWN BY: F.D.
DATE: 11 DEC. 61
REV.

SHEET NUMBER M-6 OF SHEETS

LAWRENCE CENTRAL SENIOR HIGH SCHOOL
MARION COUNTY, INDIANA

Lennox Matthews Shumaker Fox

3949 MEADOWS DRIVE
INDIANAPOLIS 5, INDIANA

FOR CONT. SEE SHT. M-8

MATCH LINE

ANCHOR PIPES ACCROSS BOTTOM CORD OF (3) JOIST

NOTE: FOR PLUMBING & DRAINAGE IN SERVING & KITCHEN AREAS SEE ENLARGED KITCHEN PLAN SHT. NO. M-15

UNIT HEATER #5 SEE PIPING DETAIL ON REF. DWG. M-10

OFFICE 240

STORAGE 241

SERVING 242

FACULTY DINING LOUNGE 236

STORAGE 235

CAFETERIA 234

PENTHOUSE #3 ABOVE

CONDENSATE PUMP, 6 GPEW GOULD, EDR. 3 GPM, 14 FT. @ 30 P.S.I. SUCTION & RETURN SEE REF. DWG. M-13 FOR PIPING CONN.

NOTE FOR PLUMBING & DRAINAGE IN THIS AREA SEE ENLARGED DISHWASHING AREA PLAN SHT. NO. M-12

NOTE FOR PLUMBING & DRAINAGE IN DISHWASHING AREA SEE ENLARGED DISHWASHING AREA PLAN SHT. NO. M-15

DISHWASHING 233

UNIT HEATER #2 SEE PIPING DETAIL ON REF. DWG M-10

SEE DETAIL ON REF. DRAWING No. M-20

F.G.

DRAFTING 228

PUBLICATION 229

OFFICE 230

VOCATIONAL GUIDANCE 213

OFFICE 214

RECEPTIONIST 215

DIVERSIFIED OCCUPATION 211

CONF. 212

GRAPHIC ARTS 227

ROUGH-IN FOR SINK TO TRAPS & STOPS. SINKS NOT IN THIS CONTRACT

ANCHOR PIPES ACCROSS BOTTOM CORD OF (3) JOIST

POWER MECHANICS & METAL SHOP 225

MATERIALS STOR. 224

TOOL STOR.

LUMBER STORAGE 219

PROJECT STOR. 220

FINISHING ROOM 221

PLANNING 222

WOOD & ELECTRONICS SHOP 213

CLASSROOM 210

CLASSROOM 209

CLASSROOM 208

CLASSROOM 207

CLASSROOM 206

NOTE FOR TYPICAL ARRANGEMENT OF EXPOSED PIPING TO SINKS - SEE DETAIL 3/M SHT. NO. 26

ANCHOR PIPE TO BOTTOM OF BEAM

BEAM

HYDRANT 18" ABOVE GRADE

FOR CONT. SEE AREA "D" SHT. M-8

STEAM COND.

22 STM.

FOR CONT. OF RADIATION SEE SHT. M-8

OPEN COURT

CATCH BASIN S.F.D. REF. DRAW'G No. E-1

NOTE: ROUTE PIPING ABOVE CEILING TO MISS DUCTWORK, SKYLIGHTS & LIGHTING FIXTURES AS REQ'D.

MASONRY PLANTER (INSULATED)

SEE DETAIL ON REF. DRAWING M-20

BOYS TOILET 192

GIRLS TOILET 191

DEMONSTRATION WALL 173

SEE TYPICAL DETAIL ON SHT. No. M-16

STOR. 176

FOR CONTINUATION SEE AREA "A" SHT. NO. M-2

CLASSROOM 190

264 LOCKERS

CLASSROOM 189

CLASSROOM 188

CLASSROOM 187

CLASSROOM 186

CLASSROOM 185

CLASSROOM 184

CLASSROOM 183

CLASSROOM 182

CLASSROOM 181

CLASSROOM 180

CLASSROOM 179

CLASSROOM 178

GUIDANCE 197

GUIDANCE 198

GUIDANCE 199

WAITING 200

DEPT. OFFICE 201

STUDENT WORK 202

CONFERENCE ROOM 204

TEACHER'S WORK 203

350 LOCKERS

COLD SMOKE t/h

ANCHOR PIPE TO BOTTOM OF BEAM

MATCH LINE

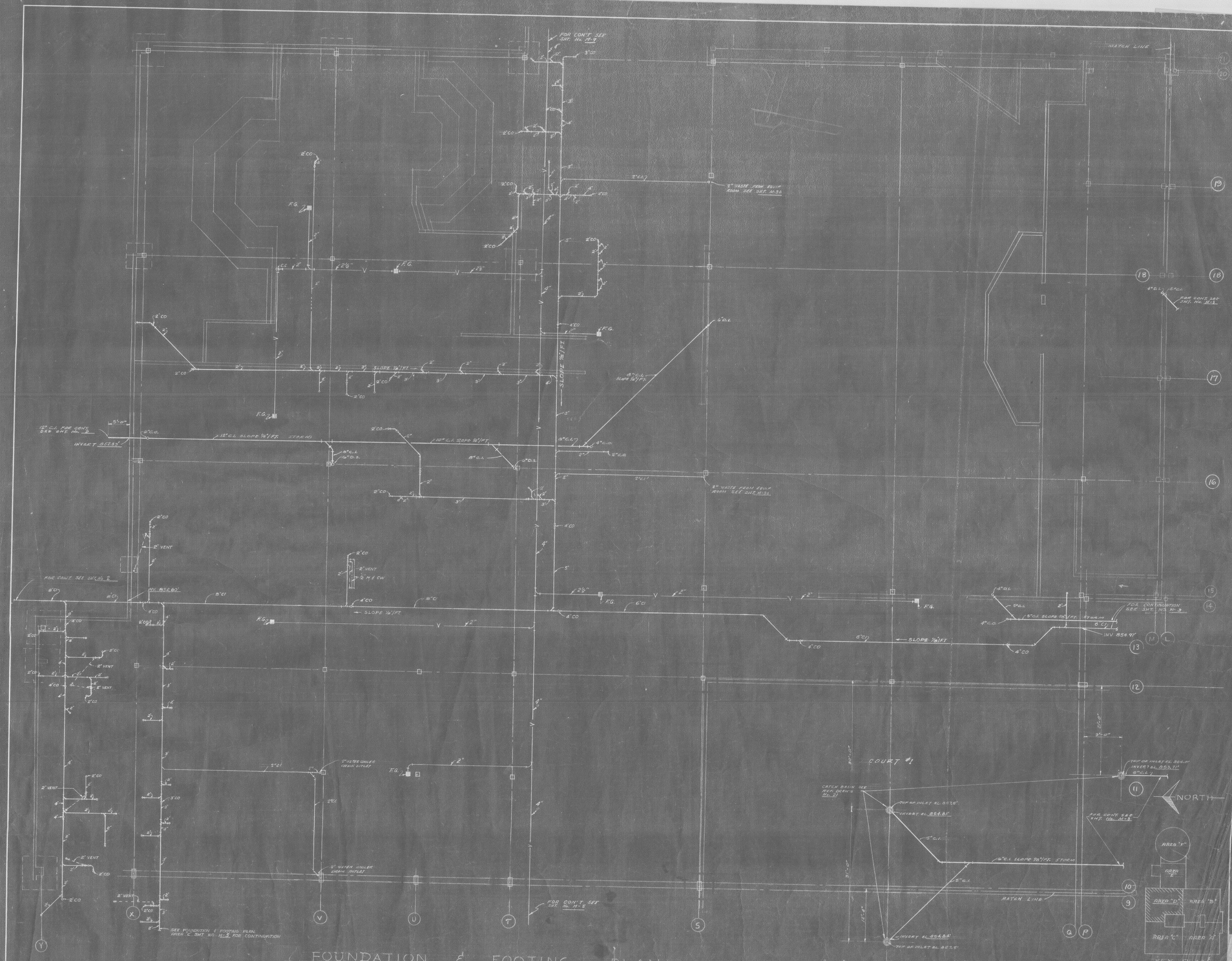
NORTH

KEY PLAN

AREA "A" AREA "B" AREA "C" AREA "D" AREA "E" AREA "F"

FLOOR PLAN AREA "C"

SCALE 1/8" = 1'-0"




FOUNDATION & FOOTING PLAN AREA "D"

SCALE 1/8" = 1'-0"

FILE NO. 943
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DATE 7-20-61
REV. R.L.S.

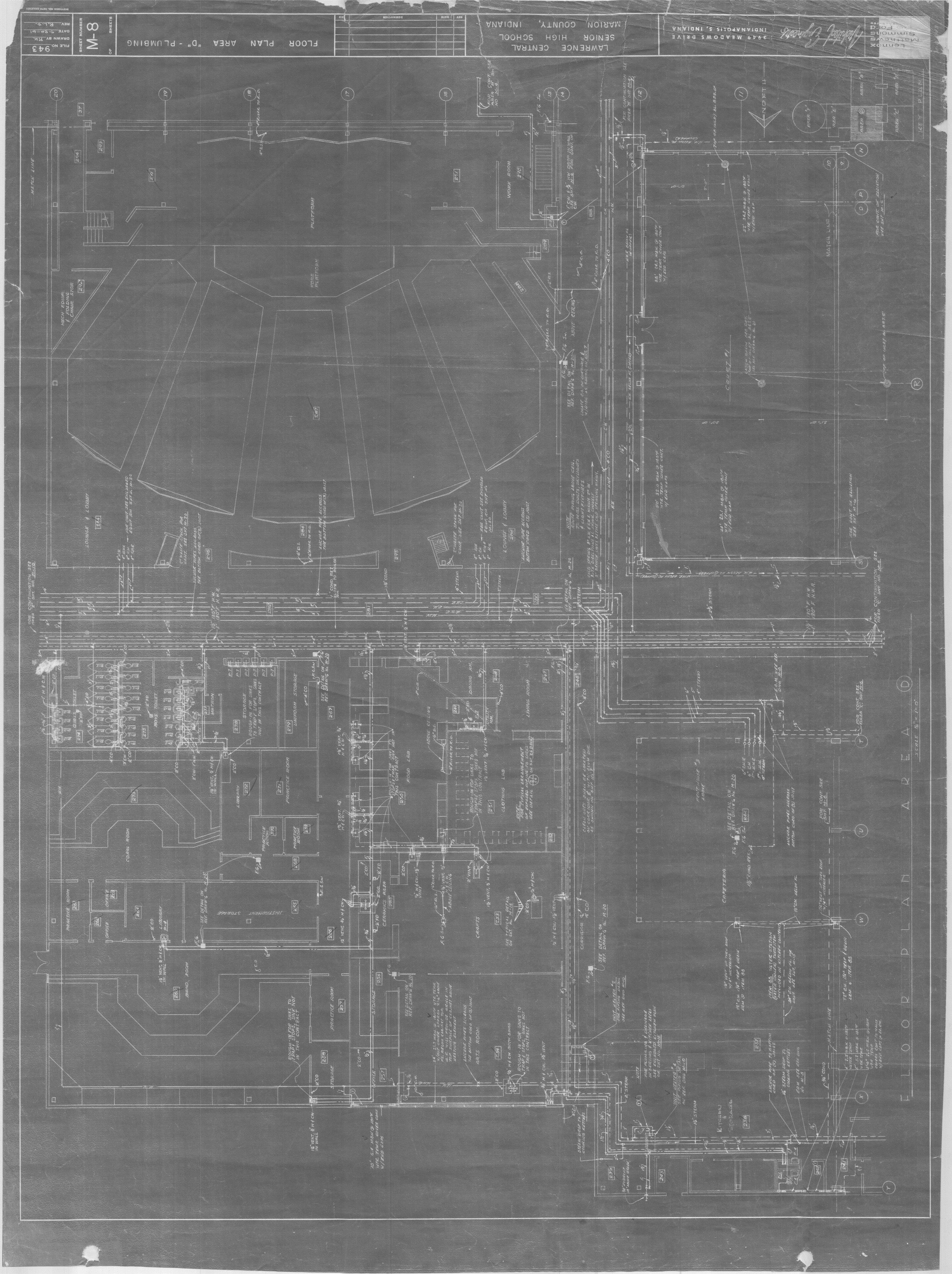
SHEET NUMBER
M-7
OF SHEETS

PLUMBING FOUNDATION & FOOTING PLAN
AREA "D"

LAWRENCE CENTRAL
SENIOR HIGH SCHOOL
MARION COUNTY, INDIANA

3949 MEADOWS DRIVE
INDIANAPOLIS 5, INDIANA

Lennox
Matthews
Simmons
Ford
Architects Engineers


FLOOR PLAN AREA "D" - PLUMBING
SHEET NUMBER M-8
FILE NO. 943
DRAWN BY R.K.
DATE 7-20-61
REV. R.L.S.
LAWRENCE CENTRAL
SENIOR HIGH SCHOOL
MARION COUNTY, INDIANA
3949 MEADOWS DRIVE
INDIANAPOLIS 5, INDIANA
Lennox Matthews Simmons Ford
FLOOR PLAN AREA D
SCALE 1/8" = 1'-0"
NORTH
MATCH LINE
PLATFORM
WORK ROOM
LOUNGE & LOBBY
PRACTICE ROOM
CORAL ROOM
BAND ROOM
INSTRUMENT STORAGE
CERAMICS AREA
CRAFTS
ARTS ROOM
CLOTHING LAB
LIVING ROOM
CAFETERIA
COURT #1
KEY PLAN

# FOUNDATION & FOOTING PLAN AREA "E"

SCALE 1/8" = 1'-0"

FOR CONT. SEE GRADING PLAN SHT. NO. 2

4" V.T.

5" C.I. SUMP BASIN OVERFLOW - INV. 851.69'

FOR CONT. SEE SHT. No. 2

8" V.T.

6" C.I.

INV. 850.11

4" V.T.

BLOWDOWN TANK

4" C.I. DRAIN TO BLOWDOWN TANK INV. 850.67'

3" F.D. OUTLET

3" C.I.

4" V.T.

2'-0"

ELECTRICAL VAULT

24" DIA. x 30" DEEP TILE SUMP w/ CONC. BOTTOM SEE SHT NO. 2

SUBMERSIBLE SUMP PUMP SET IN 24" DIA. TILE SUMP @ 1750 RPM IN DISCHARGE w/ CHECK VALVE

4" D.I.

1" UP TO TUBULAR SEP. (VACUUM SYSTEM)

FOR CONT. SEE SHT. No. M-7

FOR CONT. SEE SHT. No. 2

8" C.I.

INVERT 858.22'

10" VT.

STORM

8" C.I. SLOPE 1/4"/FT.

INVERT 853.53'

LINE OF CONC. WALL

MATCH LINE

FOR CONT. SEE SHT. No. M-11

5" C.I.

2" C.O.

6" SLOPE 1/8"/FT.

4" D.I.

4" C.O.

2" VENT

INVERT 853.64'

6" C.I.

SLOPE 1/8"/FT.

8" C.I.

16" D.I.

INVERT 853.78'

12" C.I. SLOPE 1/4"/FT.

INVERT 852.78'

INVERT 852.28'

NOTES: FOR UNDERFLOOR PLUMBING THIS AREA SEE PLAN SHT. P-2 TO BE ZID W/POLY

FOR CONTINUATION SEE AREA "F" SHT. NO. M-10

3" SUMP PIT

INV. 851.97

SLOPE 1/8"/FT.

S.A.M.

INVERT 852.41'

8" D.S.

8" C.I.

8" C.I. SLOPE .0060/FT

12" C.I. STORM

INVERT 852.02'

8" C.I., 10" V.T.

12" C.I., 16" V.T.

INVERT 851.92'

FOR CONT. SEE SHT. No. 2

8" C.I. STORM

INVERT 851.9'

10" C.I.P.

FOR CONT. SEE SHT. No. M-3

NORTH

KEY PLAN

AREA "F"

AREA "E"

AREA "D"

AREA "B"

AREA "C"

AREA "A"

| | |
|---|---|
| FILE NO. | 943 |
| DRAWN BY | JRH, KLR |
| DATE | 9-12-61 |
| REV. | 12-14-61 |

SHEET NUMBER M-9 OF SHEETS

PLUMBING FOUNDATION & FOOTING PLAN AREA "E"

LAWRENCE CENTRAL SENIOR HIGH SCHOOL
MARION COUNTY, INDIANA

3949 MEADOWS DRIVE
INDIANAPOLIS 5, INDIANA

Indianapolis Public Schools
Construction Program

FLOOR PLAN AREA "E"

SCALE 1/8" = 1'-0"

KEY PLAN

NORTH

INDOOR POOL - SEE SHTS P-1 & P-2

BOYS LOCKER AREA

GIRLS LOCKER AREA

DRESSING SHOWER RM

ATHLETIC DIRECTOR

COACHES

OFFICIALS

LAUNDRY

TOWELS

STOR.

METER

WOMEN

MEN

TRAINING ROOM

EQPT. STORAGE

POOL STORAGE

INCINERATOR RM.

DRYING ROOM

JANITOR

BOYS INSTR.

GIRLS INSTR.

FOR CONTINUATION SEE SHT NO M-11

FOR CONTINUATION SEE SHT NO M-12

FOR CONTINUATION SEE SHT NO M-9

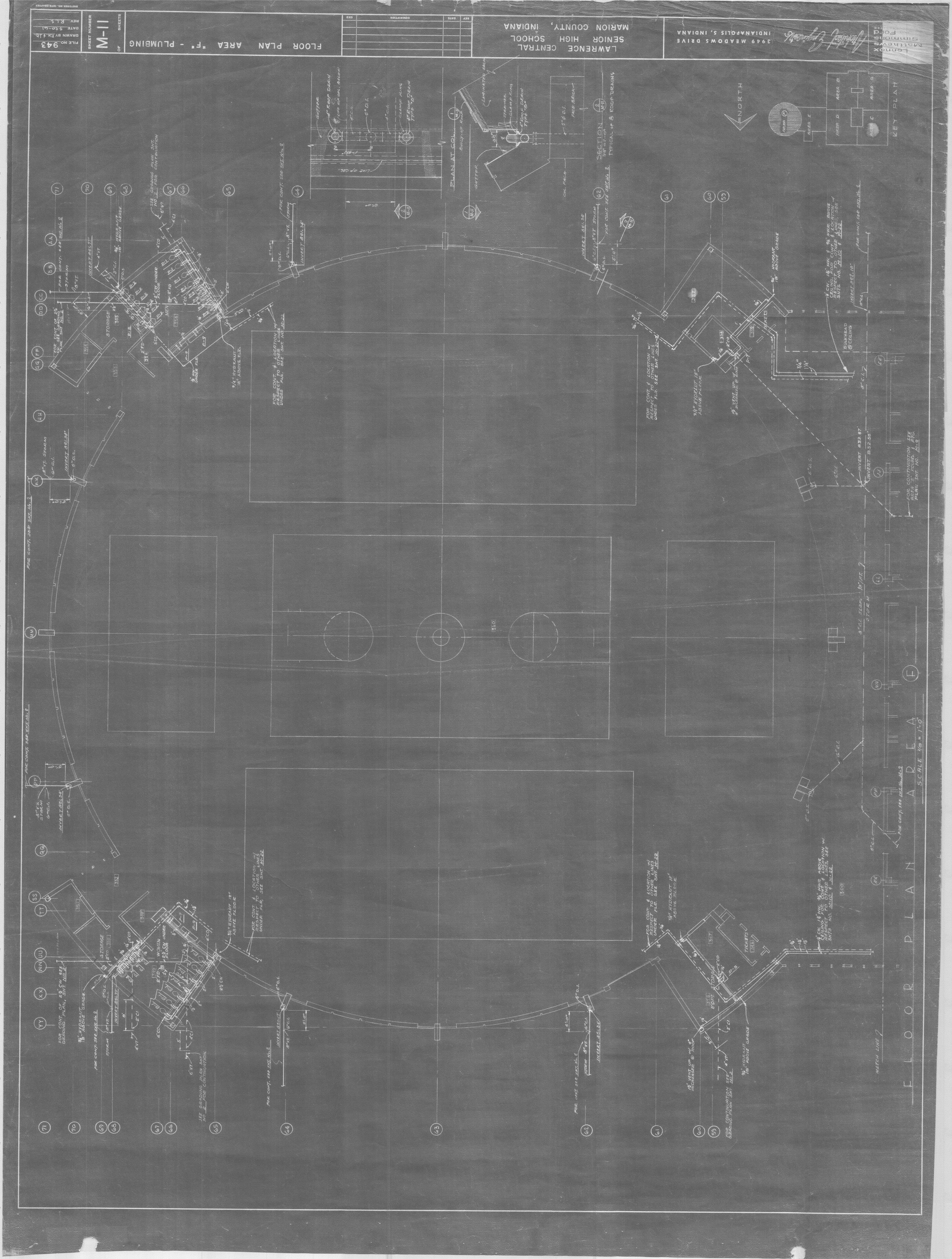
FOR CONTINUATION SEE SHT NO M-9.2

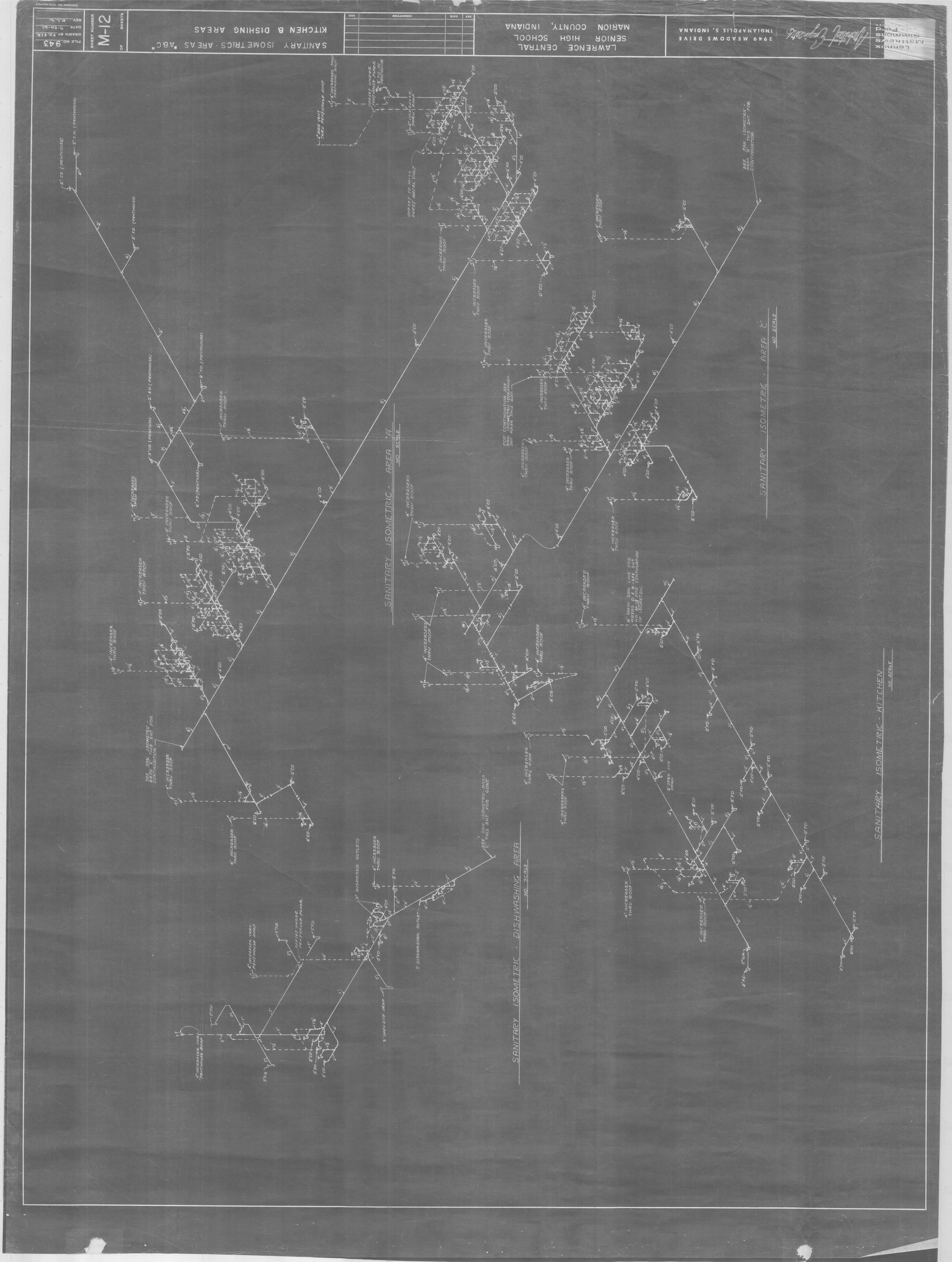
FOR DETAILS OF 10 GAL. S.S. DRINKING FOUNTAIN SEE SHT NO M-12

FOR DETAILS OF ROOF DRAIN SEE SHT NO M-11

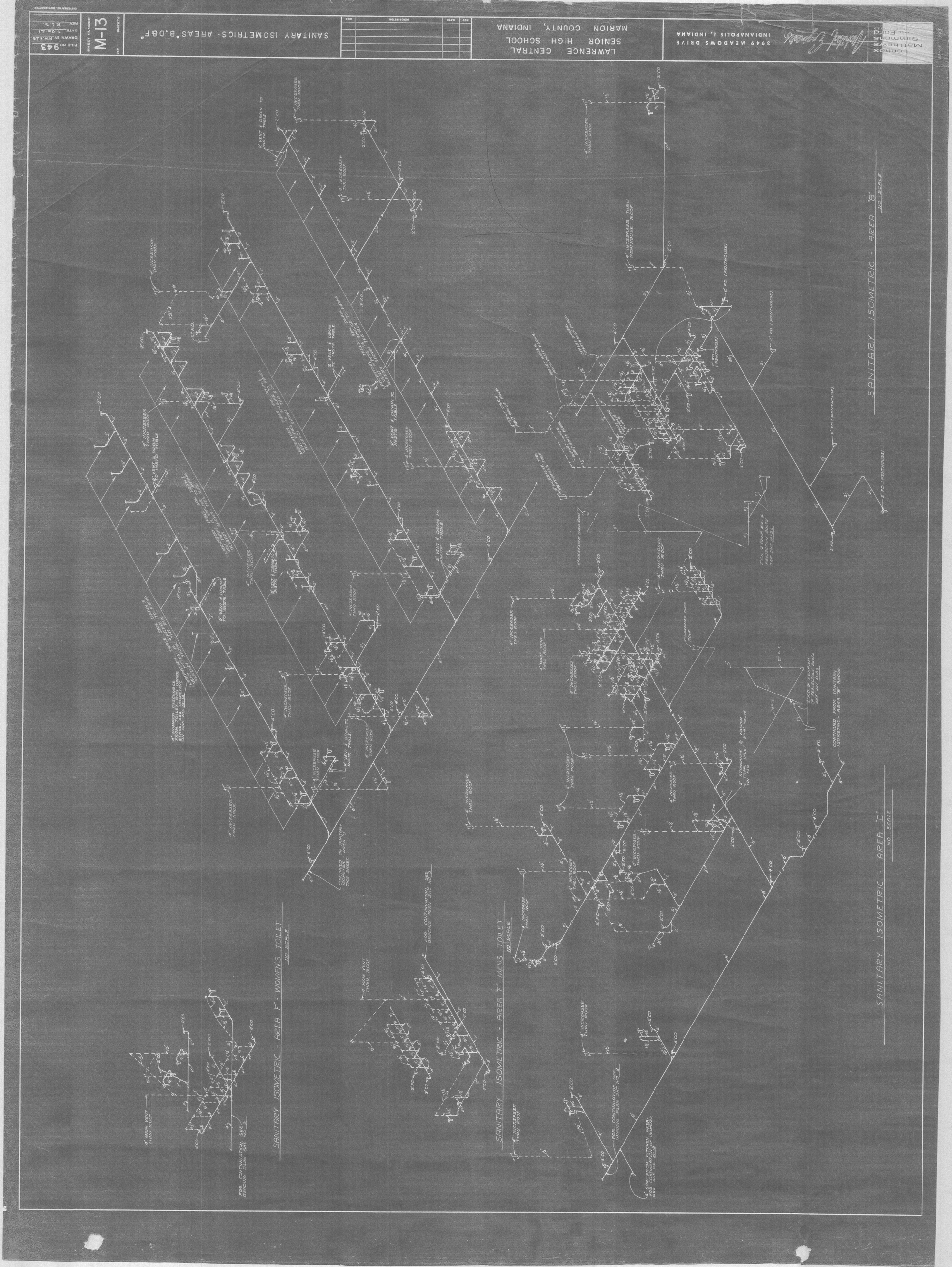
FOR DETAILS OF FLOOR DRAIN SEE SHT NO M-12

FOR DETAILS OF FLOOR

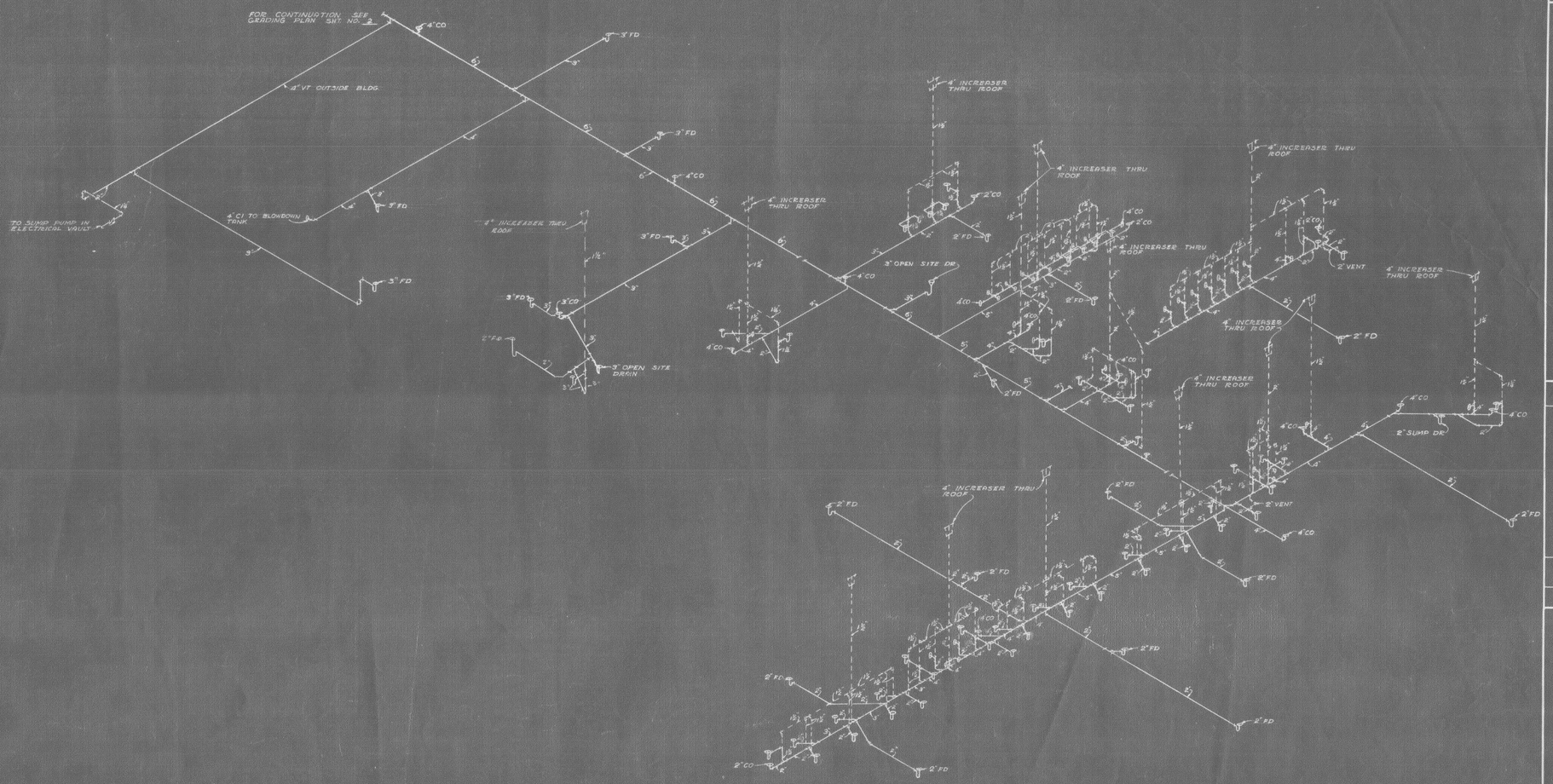

FLOOR PLAN AREA "F" - PLUMBING
SHEET NUMBER M-11 OF SHEETS
FILE NO. 943
DRAWN BY R.H.J.B.
DATE 4-20-61
REV R.L.S.
LAWRENCE CENTRAL
SENIOR HIGH SCHOOL
MARION COUNTY, INDIANA
3949 MEADOWS DRIVE
INDIANAPOLIS 5, INDIANA
Lennox Matthews Simmons Ford
NORTH
KEY PLAN
PLAN AT COL.
SECTION
TYPICAL OF 8 ROOF DRAINS
FLOOR PLAN AREA F
SCALE 1/8" = 1'-0"



SANITARY ISOMETRIC - AREA "A"
NO SCALE
SANITARY ISOMETRIC - AREA "C"
NO SCALE
SANITARY ISOMETRIC - DISHWASHING AREA
NO SCALE
SANITARY ISOMETRIC - KITCHEN
NO SCALE
SANITARY ISOMETRIC - AREAS "A&C"
KITCHEN & DISHING AREAS
LAWRENCE CENTRAL
SENIOR HIGH SCHOOL
MARION COUNTY, INDIANA
3949 MEADOWS DRIVE
INDIANAPOLIS 5, INDIANA
SHEET NUMBER
M-12
FILE NO. 943
DRAWN BY R.K. & J.B.
DATE 7-20-61
REV. R.L.S.

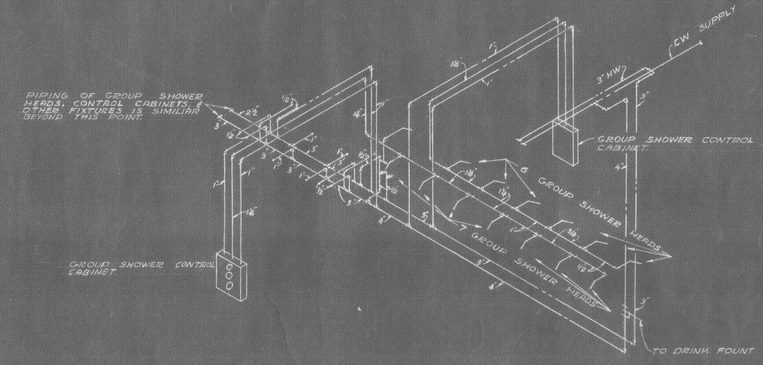


SANITARY ISOMETRIC - AREA "B"
NO SCALE
SANITARY ISOMETRIC - AREA "D"
NO SCALE
SANITARY ISOMETRIC - AREA "F" - WOMEN'S TOILET
NO SCALE
SANITARY ISOMETRIC - AREA "F" - MEN'S TOILET
NO SCALE
LAWRENCE CENTRAL
SENIOR HIGH SCHOOL
MARION COUNTY, INDIANA
3949 MEADOWS DRIVE
INDIANAPOLIS 5, INDIANA
SANITARY ISOMETRICS - AREAS "B, D & F"
SHEET NUMBER
M-13
FILE NO. 943
DRAWN BY R.K.&J.B.
DATE 7-20-61
REV. R.L.S.



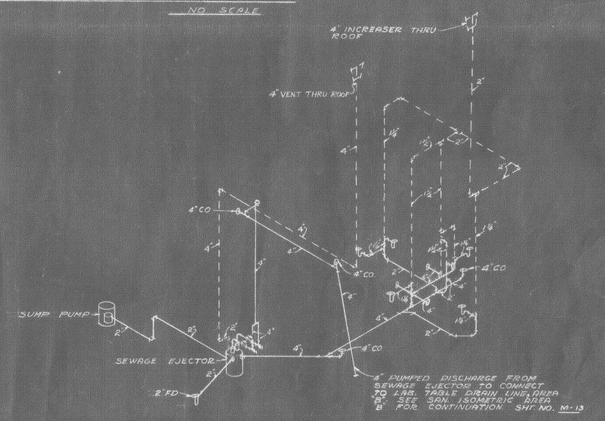

SANITARY ISOMETRIC - AREA "E"

NO SCALE




PARTIAL HOT & COLD WATER ISOMETRIC

NO SCALE




SANITARY ISOMETRIC - TOILET RMS. UNDER STAGE

NO SCALE

FILE NO. 943
DRAWN BY T.J.K.
DATE 11-20-61
CHD. R.L.S.

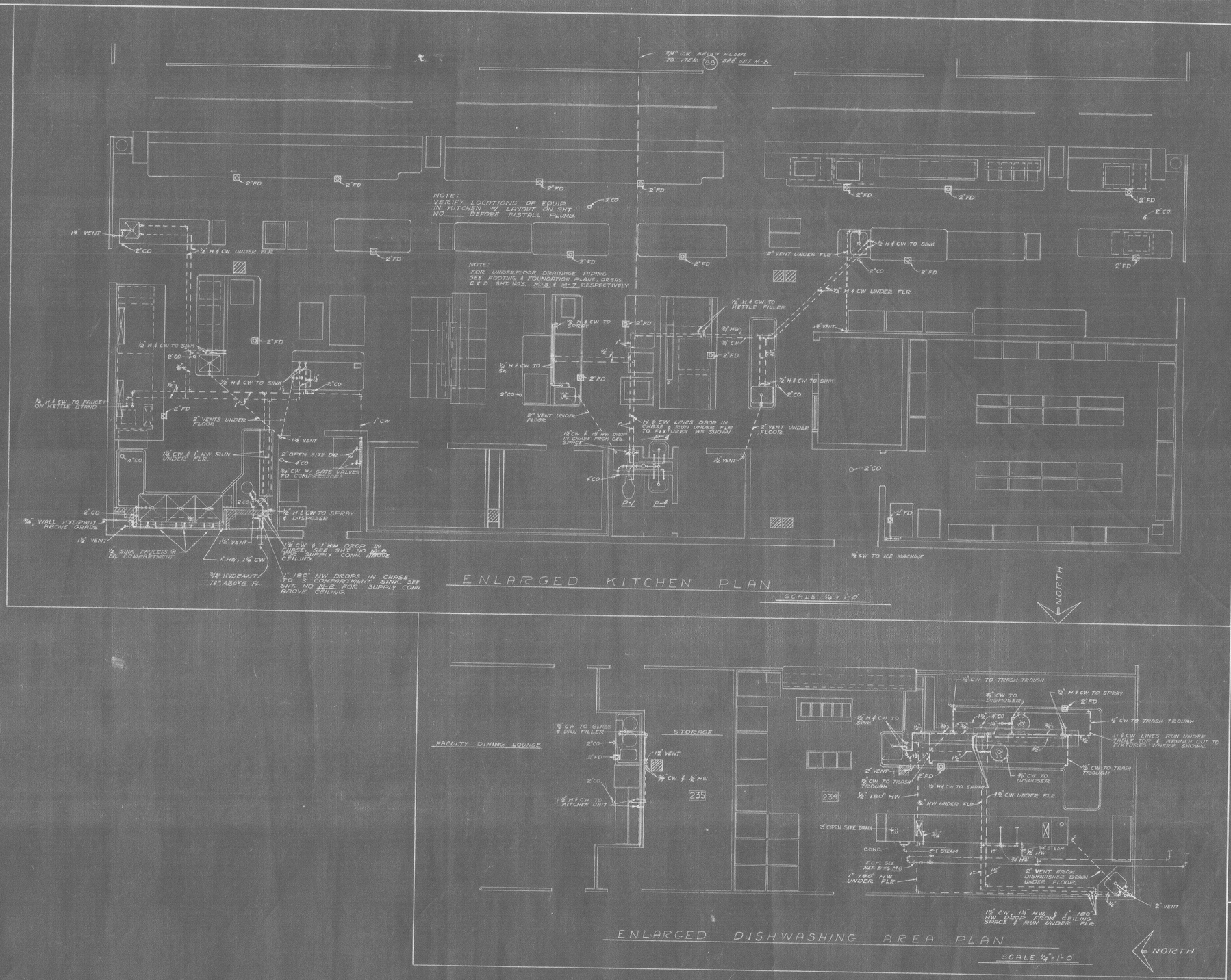
SHEET NUMBER
M-14
OF SHEETS

SANITARY ISOMETRICS
AREAS UNDER STAGE, & "E"

LAWRENCE CENTRAL
SENIOR HIGH SCHOOL
MARION COUNTY, INDIANA

3949 MEADOWS DRIVE
INDIANAPOLIS 5, INDIANA

Lamb Matthews Simmons Inc.




NOTE:

MECH.-CTR. SHALL ROUGH-IN AND MAKE FINAL CONNECTIONS AS INDICATED. MECH.-CTR. SHALL INCLUDE IN HIS BID 2 FT. OF PIPE OF EACH SERVICE TO BE USED IN THE EVENT ANY ROUGH IN DOESN'T EXACTLY MATCH THE EQUIPMENT.

FILE NO. 943
DRAWN BY P.K.
DATE 7-20-61
REV. R.L.S.

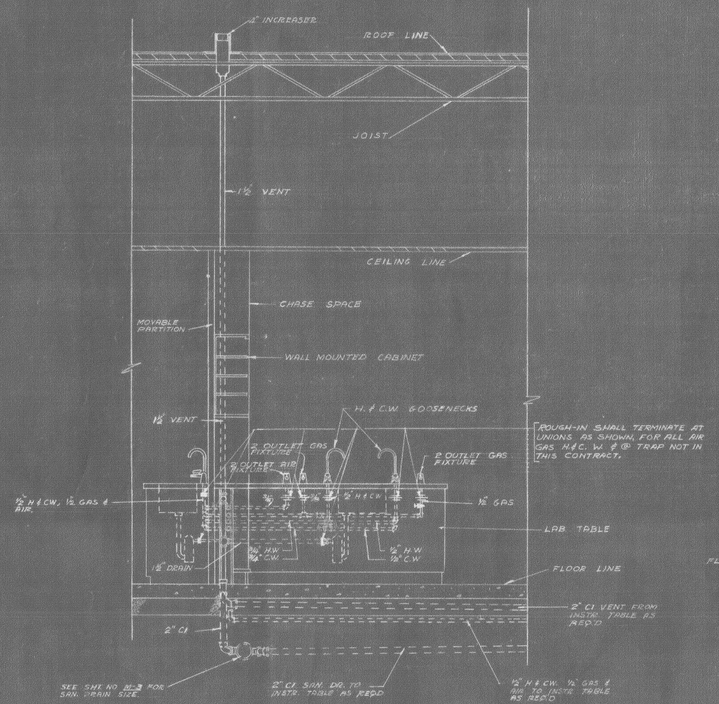
SHEET NUMBER
M-15
OF SHEETS

KITCHEN FLOOR PLAN - PLUMBING
DISHWASHING FLOOR PLAN - PLUMBING

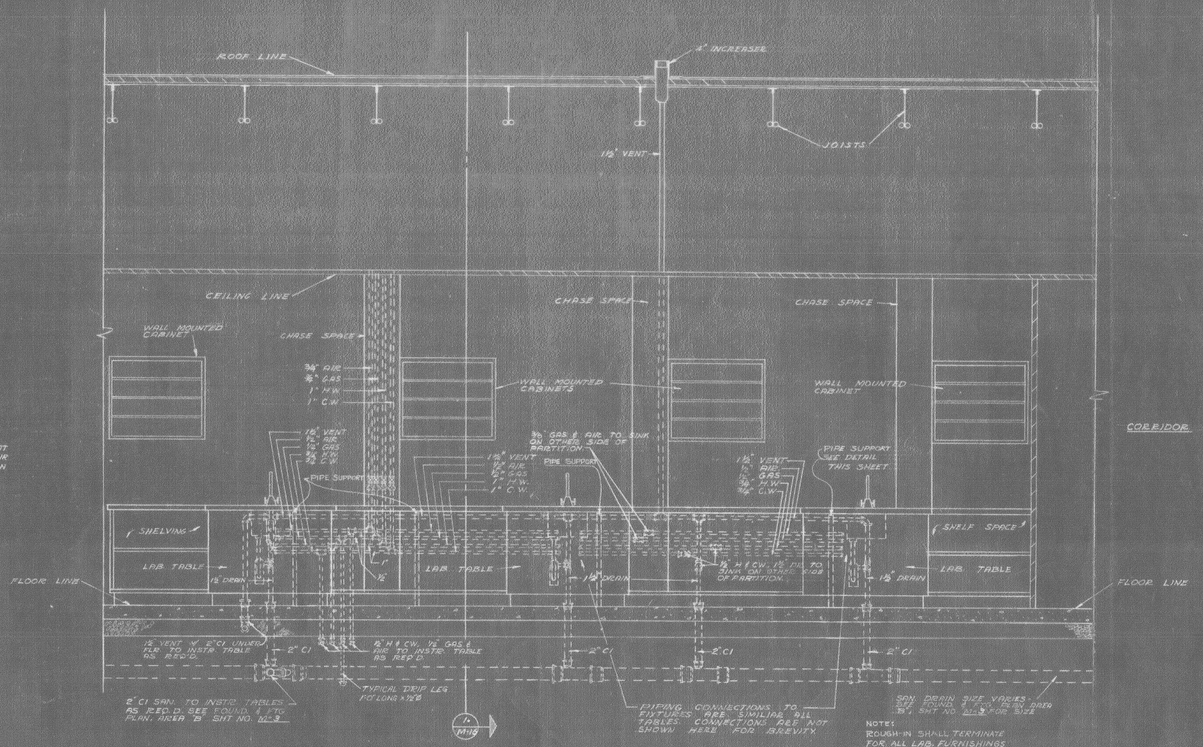
LAWRENCE CENTRAL
SENIOR HIGH SCHOOL
MARION COUNTY, INDIANA

3949 MEADOWS DRIVE
INDIANAPOLIS 5, INDIANA

Lennox
Matthews
Simmons
Ford

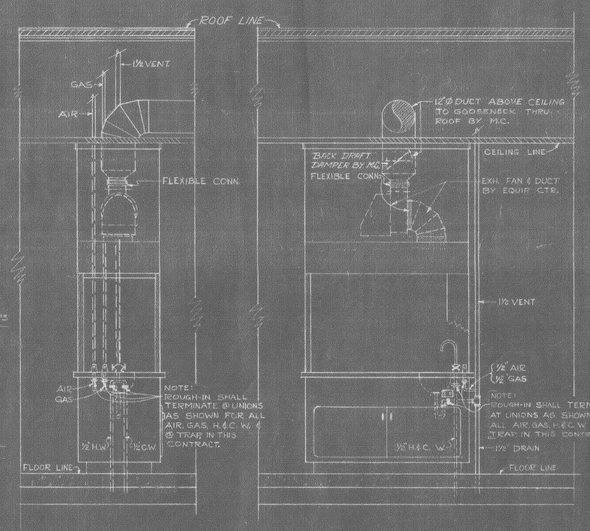



SECTION (1/M15) SCALE ½" = 1'-0"



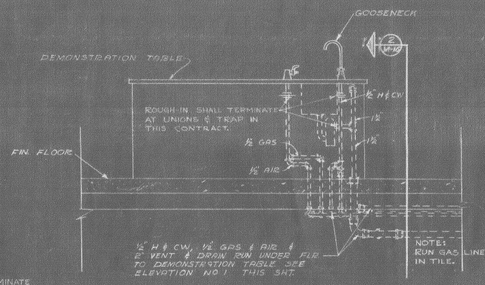

ELEVATION NO. 1 - TYPICAL LAB. TABLE PIPING DETAIL

SCALE ½" = 1'-0"




END VIEW

ELEVATION
FUME HOOD DETAIL
SCALE ½"=1'-0

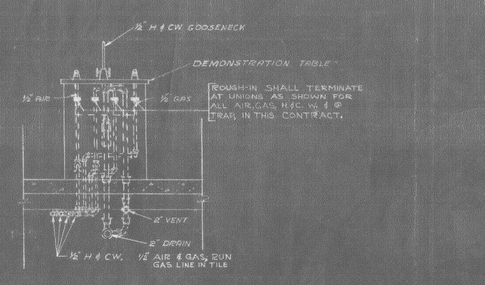



TYPICAL PIPE SUPPORT @ LAB. TABLE
(NO SCALE)

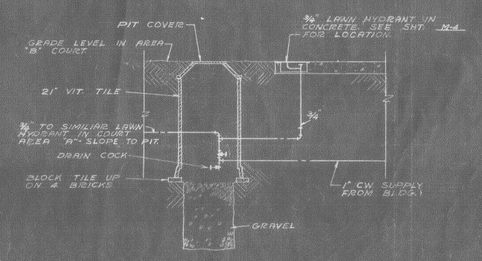



ELEVATION NO. 2 - TYPICAL DEMONSTRATION TABLE PIPING DETAIL

SCALE ½" = 1'-0"




SECTION (2/M15) SCALE ½" = 1'-0"




DETAIL (3/M15) SCALE ½" = 1'-0"

FILE NO. 943
DRAWN BY: P.K.
DATE: 1-26-61
REV: R.L.S.

SHEET NUMBER
M-16
OF SHEETS

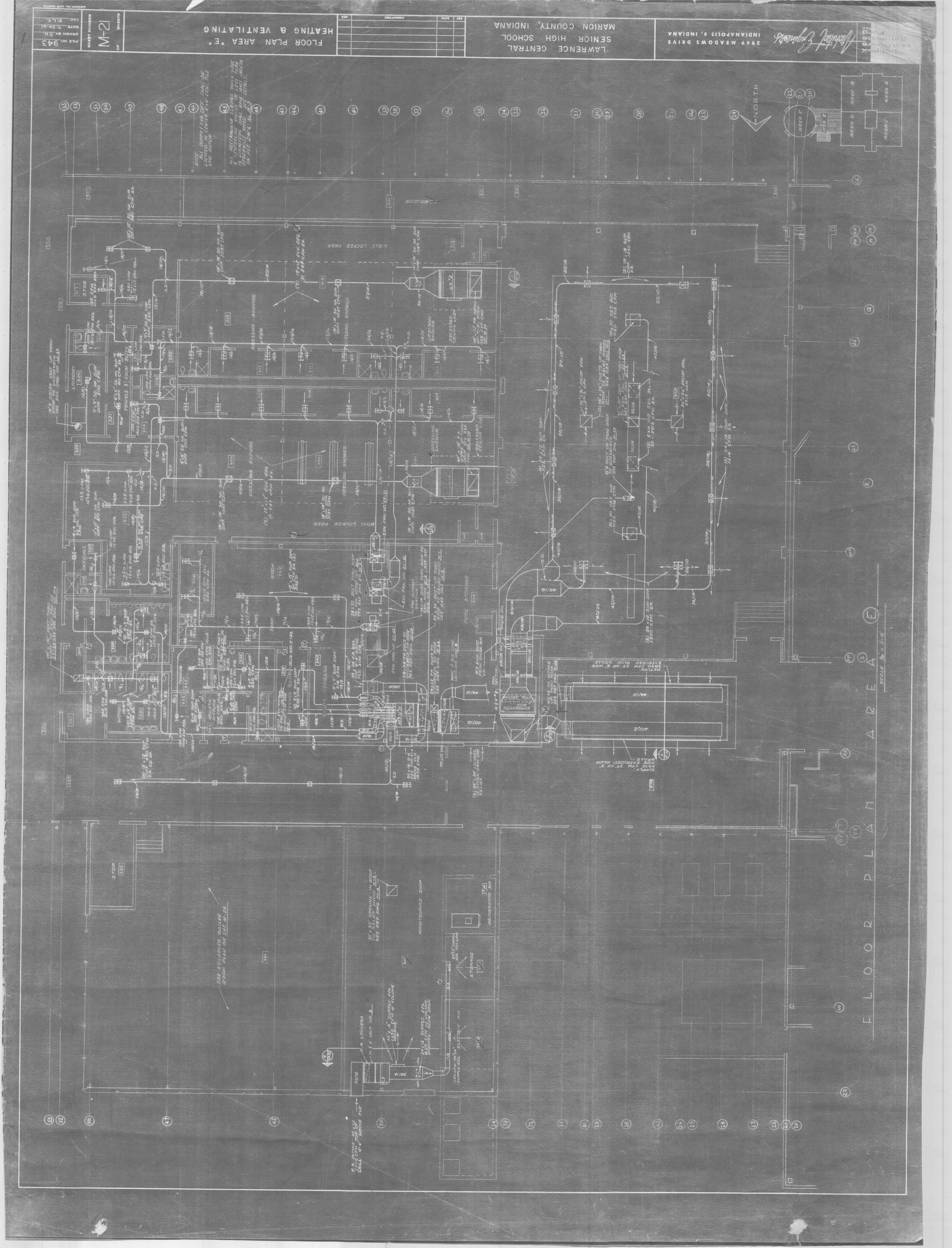
LABORATORY TABLE PIPING DETAILS

| NO. | DESCRIPTION | DATE |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |

LAWRENCE CENTRAL
SENIOR HIGH SCHOOL
MARION COUNTY, INDIANA

3949 MEADOWS DRIVE
INDIANAPOLIS 5, INDIANA
Architectural Associates

Lennox
Matthews
Simonds
Eco


FLOOR PLAN AREA "E"
HEATING & VENTILATING
LAWRENCE CENTRAL
SENIOR HIGH SCHOOL
MARION COUNTY, INDIANA
3949 MEADOWS DRIVE
INDIANAPOLIS 5, INDIANA
SHEET NUMBER
M-21
FILE NO. 943
DRAWN BY R.K.
DATE 7-20-61
CKD. R.L.S.
NORTH
CORRIDOR
GIRLS LOCKER AREA
BOYS LOCKER AREA
DRESSING SHOWER
MAINTENANCE SHOP
INCINERATOR RM
STORAGE
FLOOR PLAN AREA E
SCALE 1/4" = 1'-0"

LAWRENCE CENTRAL
SENIOR HIGH SCHOOL
MARION COUNTY, INDIANA

FLOOR PLAN AREA "F"
HEATING & VENTILATING

SHEET NUMBER M-22 OF SHEETS

FILE NO. 943
DRAWN BY GMC
DATE 1-28-61
CKD. [illegible]

3949 MEADOWS DRIVE
INDIANAPOLIS 5, INDIANA

Lennox
Manufacturers
Foreign

FIRST FLOOR PLAN BELOW MEZZ. "F"
SCALE 1/8"=1'-0"

FIRST FLOOR PLAN AREA "F"
SCALE 1/8"=1'-0"

FIRST FLOOR HEATING PLAN
TYPICAL CLASSROOM SUITES
SCALE 1/4"=1'-0"

SECTION
SCALE 1/2"=1'-0"

SECTION
SCALE 1/2"=1'-0"

FIRST FLOOR PLAN BELOW MEZZ. "F"
SCALE 1/8"=1'-0"

NORTH

MEZZANINE NO. 1

MEZZANINE NO. 2

MEZZANINE NO. 3

MEZZANINE NO. 4

UNIT HEATER #1
UNIT HEATER #2
UNIT HEATER #3
UNIT HEATER #4
UNIT HEATER #5
UNIT HEATER #6
UNIT HEATER #7
UNIT HEATER #8

UNIT VENTILATOR #1
UNIT VENTILATOR #2

UNIT CONDENSATE
1" STEAM
3/4" RET. RETURN
1/2" HOT WATER
COLD WATER

FOR CONT. OF STEAM LINES SEE SHT. NO. M-24

FOR CONT. OF HOT WATER LINES SEE SHT. NO. M-23

SEE SHT. NO. M-23 FOR CONTINUATION

SEE SHT. NO. M-24 FOR CONTINUATION

SEE PIPING DETAIL ON SHT. NO. M-23

SEE PIPING DETAIL ON SHT. NO. M-24

SEE DETAIL

SEE DETAIL

SEE DETAIL

FIRST FLOOR PLAN BELOW MEZZ "E"
SCALE 1/8" = 1'-0"

FIRST FLOOR PLAN BELOW MEZZ "D"
SCALE 1/8" = 1'-0"

FIRST FLOOR PLAN BELOW MEZZ "C"
SCALE 1/8" = 1'-0"

FIRST FLOOR PLAN BELOW MEZZ "B"
SCALE 1/8" = 1'-0"

FIRST FLOOR PLAN AREA "F"
1/8" = 1'-0"

FIRST FLOOR PLAN BELOW MEZZ "A"
SCALE 1/8" = 1'-0"

NORTH

MEZZ PLAN "E" SAME AS MEZZ PLAN "D" ONLY OPPOSITE HAND

MEZZ PLAN "D" SAME AS MEZZ PLAN "C" ONLY OPPOSITE HAND

MEZZ PLAN "C"

MEZZ PLAN "A" SAME AS MEZZ PLAN "B" ONLY OPPOSITE HAND

MEZZ PLAN "B"

CANVAS CONN.

EXH. FAN NO. EF-28

EXH. FAN NO. EF-29

EXH. FAN NO. EF-30

EXH. FAN NO. EF-31

EXH. FAN NO. EF-32

EXH. FAN NO. EF-33

EXH. FAN NO. EF-34

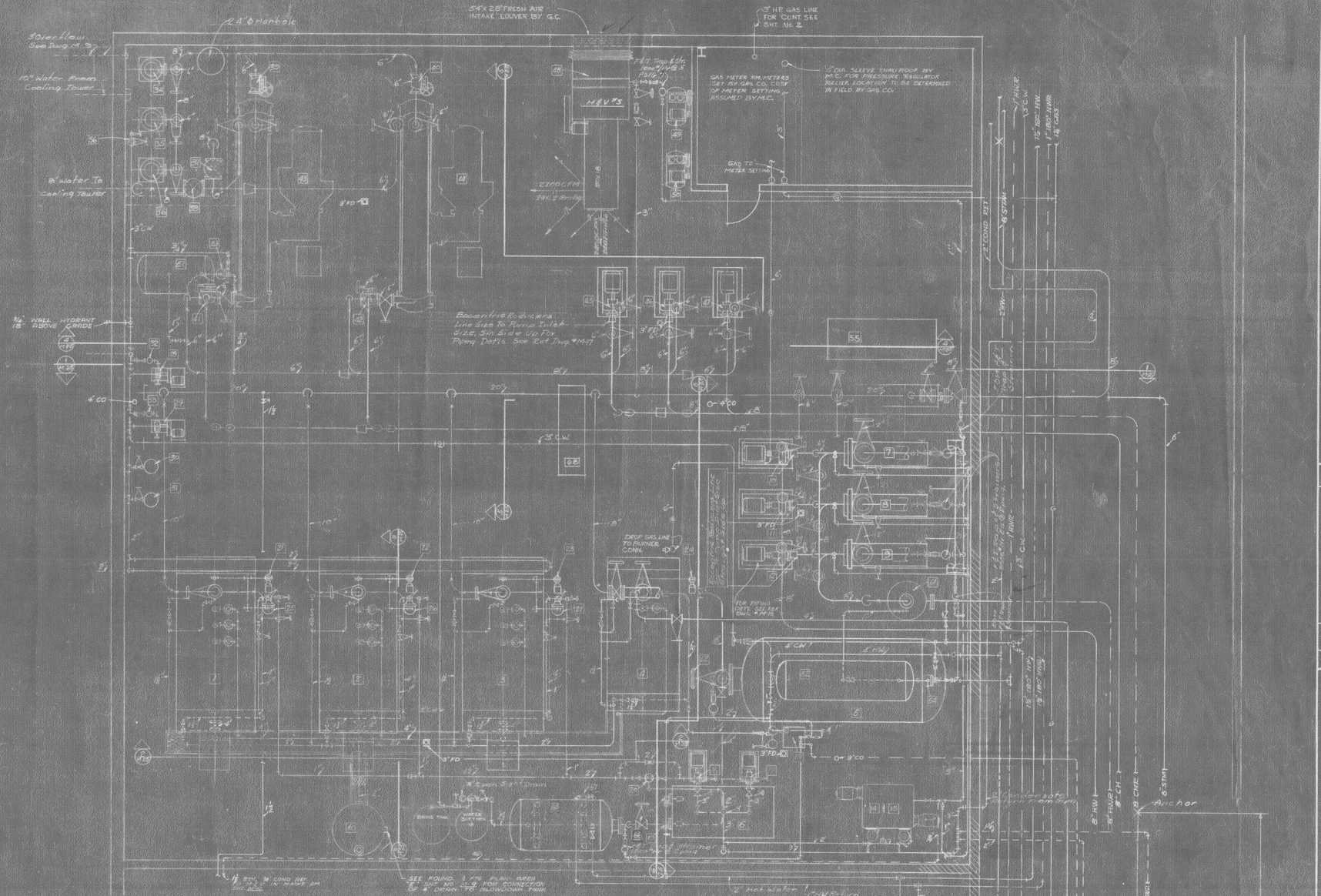
EXH. FAN NO. EF-35

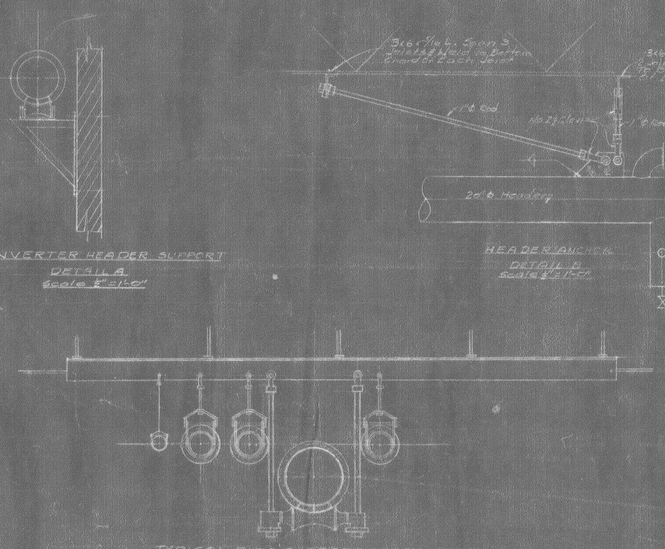
EXH. FAN NO. EF-36

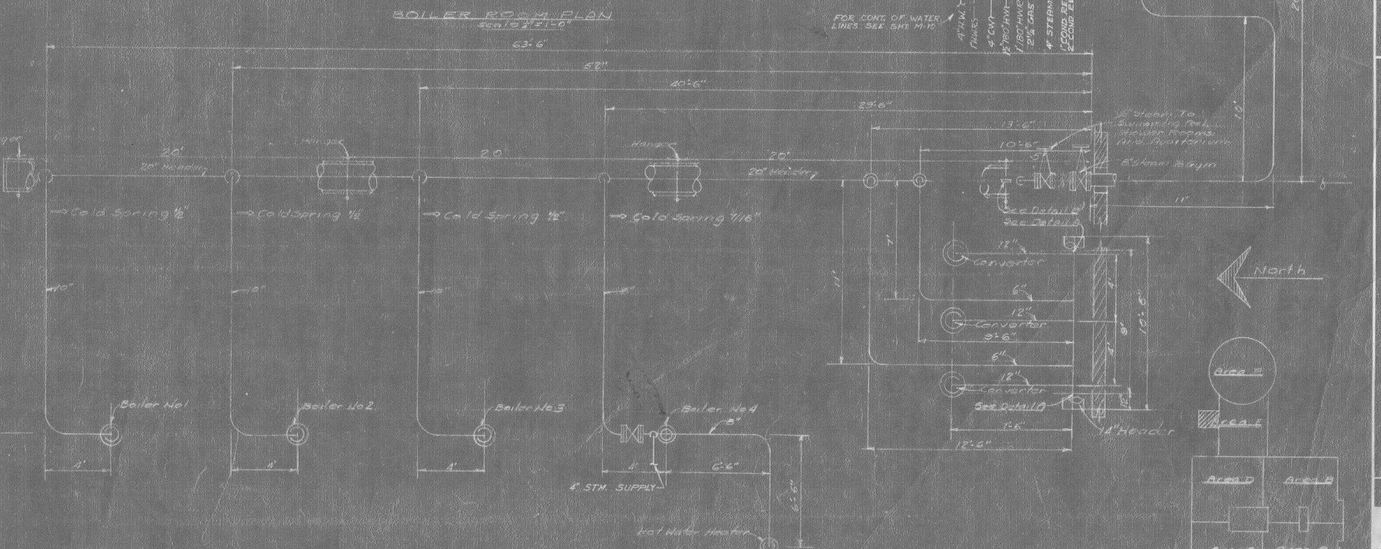
EXH. FAN NO. EF-37

EXH. FAN NO.

1-2-3- Oil Fired Heating Boilers 6340# Steam Hr. Each @ 5 Psig
4- Gas Fired Hot Water Heating Boiler 3360# Steam Hr @ 5 psig
5- Hot Water Heating & Storage Tank 78"Ø x 192" Long. Storage Capacity 1912 Gallons Heating Element 3400 GPM From 40° To 140°
6- Condensate Collecting Tank K 48"Ø X 96" Long
7-8-9- Hot Water Converters Entering Water 180° Leaving 200° 600 GPM Each
10-11-12- Hot Water Heating Pumps 600 GPM Ea. @ 116 Ft. TDH. 3 Phase, 440 V. 25 H.P. 1750 R.P.M. Motor
13- Duplex Condensate Pumps & 45 Gallon Receiver Equipped With Make Up Float & Alternator. Capacity 15000 LBS/Hr. Pump Capacity 22 GPM @ 15 psig Discharge Pressure. ½ H.P. 1750 R.P.M. Single Phase 115 Volt Motor
14-15- Condensate Vacuum Pumps & 66 Gallon Receiver. Simultaneous Water & Air Capacity 32.5 GPM @ 20 psig & 15.3 C.F.M. @ 15"
16-17- Boiler Feed Pumps 60 GPM Ea @ 35 psig. Discharge Pressure. 3 H.P. 1750 R.P.M. 3 Phase 440 Volt Motors
18-19- Make Up Water Feed Valves. 20 GPM Ea @ 50 psig Inlet Pressure.
20- Feed Water 3 Way Pressure Control Valve By Pass Connection Back To Condensate Tank K. Valve To Maintain A Constant Set Pressure In Feed System While By Passing Excess Feed Water Back To Condensate Receiver. Maximum Capacity 400 GPM At 30 To 60 psig Inlet Pressure. Adjustable Range 35 To 25 psig Valve To Be Controlled By Differential Between Steam & Feed Water Pressures Thereby Maintaining A Constant Feed Water Pressure At Regulators
21-22-23- Water Column With Sight Glass, Pump Control, Low Water Cut Off. Pump Controls To Be Connected In Parallel To Pump Starter Holding Coil.
24- Water Column With Sight Glass, Pump Control & Low Water Cut Off.
25-26-27- Float Actuated Feed Water Regulators Capacity 7000 Lbs/Hr @ 18 psig
28-29- Gear Driven Positive Displacement Fuel Oil Transfer Pumps. 15 GPM No. 5 Fuel Oil @ 60° F. Maximum Pressure 50 psig. ½ H.P. 3 Phase 440 V. Motor
30-31- 12 KW Fuel Oil Circulating Heaters. 18 GPM From 60° To 130° F. Equip With Fuel Oil Thermostat Range 50 To 200°
32-33- Basket Type Fuel Oil Suction Strainer For 750 SSU Fuel Oil, 15 GPM, 8" P.D.
34-35-36- Turbine Type Cooling Tower Pumps. 1500 GPM @ 30 Ft. T.D.H. 20 H.P. 3 Phase 440 Volt Motors. 23 Stage Pump & 40 Ft. Per Stage.
37-38- Modulating Control Valves Between Cooling Towers & Sump. 1500 GPM At 5 psig Pressure Drop
39-40-41-42- 6" Straight Way, Cast Iron Flow Control Plug Valves With Worm Gear Operating Mechanism
43-44- 250 Ton Each Centrifugal Refrigerating Machines. 200 K.W. Each Condenser 750 GPM Each. 85° Entering Water 95° Leaving, 20' Press. Drop Chiller 600 GPM Each. 54 Entering Water 46° Leaving, 15' Press. Drop
45-46-47- Chilled Water Circulating Pumps 600 GPM Each @ 114 Ft. T.D.H. 25 H.P. 3 Phase, 440 Volt 1750 R.P.M. Motor
48- Fresh Air Ventilating & Combustion Air Unit 5500 C.F.M. & ½" External Non Freeze Heating Coil Capacity 3500 C.F.M. & 50° Δ T. 475000 B.T.U. Hr 1½ H.P. 3 Phase 440 Volt Motor
49- Air Compressors Furnished By Control Contractor
51- 36"Ø X 72" Long Expansion Tank
52- 36"Ø X 132" Long Expansion Tank
53-54- Make Up Feed Water Regulator & Inlet Strainer 10 GPM Each @ 70 psig
55- Electrical Control & Distributing Panel
56- Dwg. M-25- 1½" Make Up Feed Valve & Strainer
57- Dwg M-25 Steam Flow Control Valve To Converter 4000# Hr, 2 psig P.D.
58- Dwg M-25 Steam Flow Control Valve To Converter 8200# Hr. 5 psig P.D.
59- Dwg M-25 Hot Water Circulating Pump. 30 GPM @ 20 Ft TDH ¾ H.P. 1750 R.P.M. Single Phase 115 Volt Motor
60- 2'6" x 4' Deep Cast Iron Blow Down Tank
61- 36"Ø 1200 G.P.M. Air Eliminator
62- Steam Control Valve Actuated Water Temperature Low In Tank 300# Hr. 5 psig P.D.
63- Line Size 6" Vibration Eliminators Keyed In Suction & Discharge Pipes Of Hot Water Heating Water & Chilled Water Circulating Pumps
64- Spec. Dwg No 2- 1500 G.P.M. 2 Cell Cooling Tower 95° Entering 85° Leaving Water @ 75° Wet Bulb. 2 Fans Driven By 15 H.P. 3 Phase 440 Volt Motors
65- 780 Gallon Hot Water Storage Heater 4'6"Ø x 8' Long. Heating Coil Capacity 750 G.P.H. From 40° To 180° With 2 psig Steam
66- Steam Control Valve Actuated By Tank Water 900# Hr & 2 psig P.D.
67- Hot Water Circulating Pump. 165 P.H. @ 16' T.D.H. ¾ H.P. 1750 R.P.M. Single Phase 115 Volt Motor
68- PNEUMATIC CONTROL PANEL




STEAM PIPING PLAN & HEADERS
Scale ¼"=1'0"

FILE NO. 943
DRAWN BY S.M.C.
DATE 11-13-'61
CKD E.L.S.

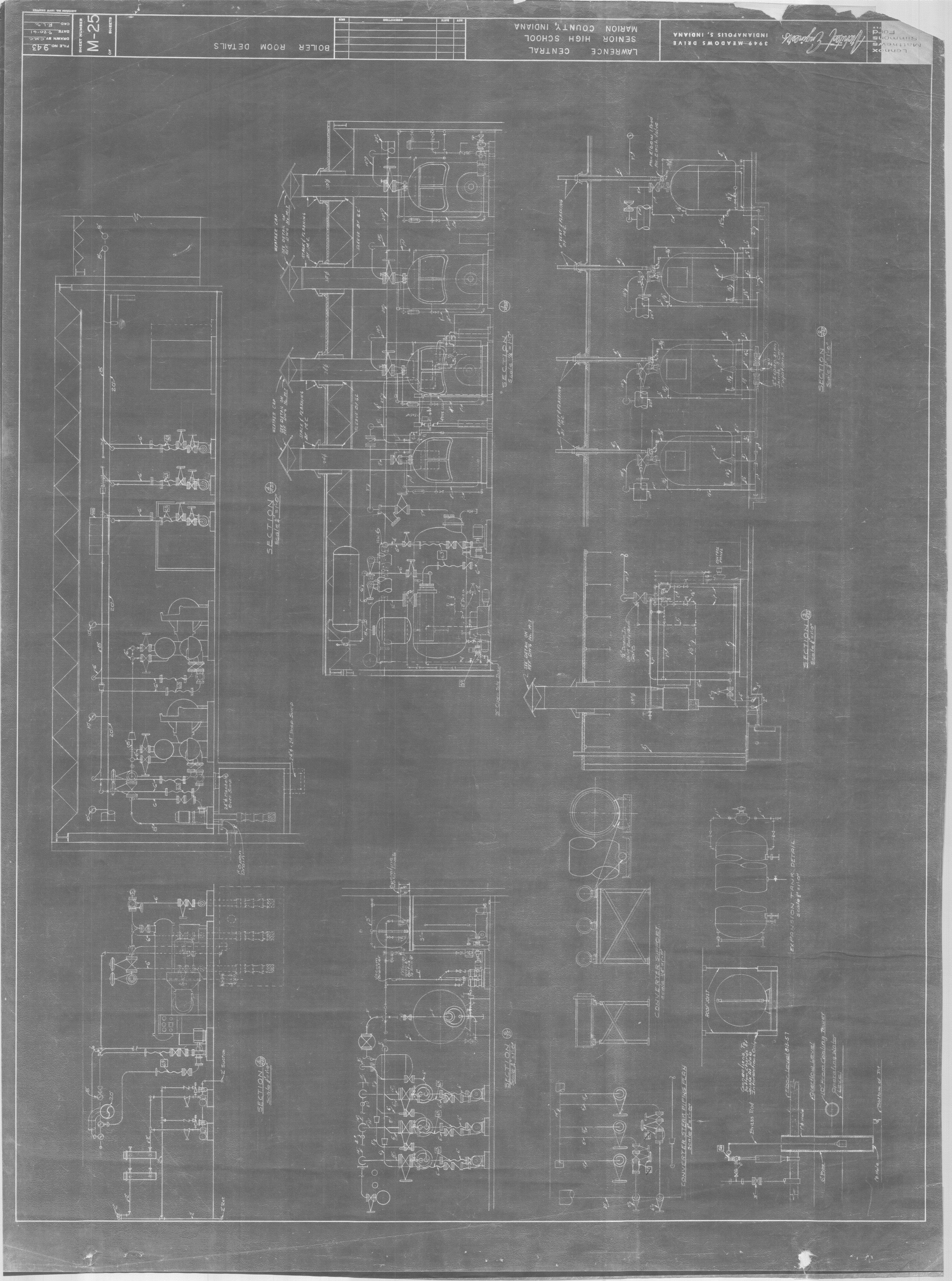
SHEET NUMBER M-24 OF SHEETS

BOILER ROOM PLAN

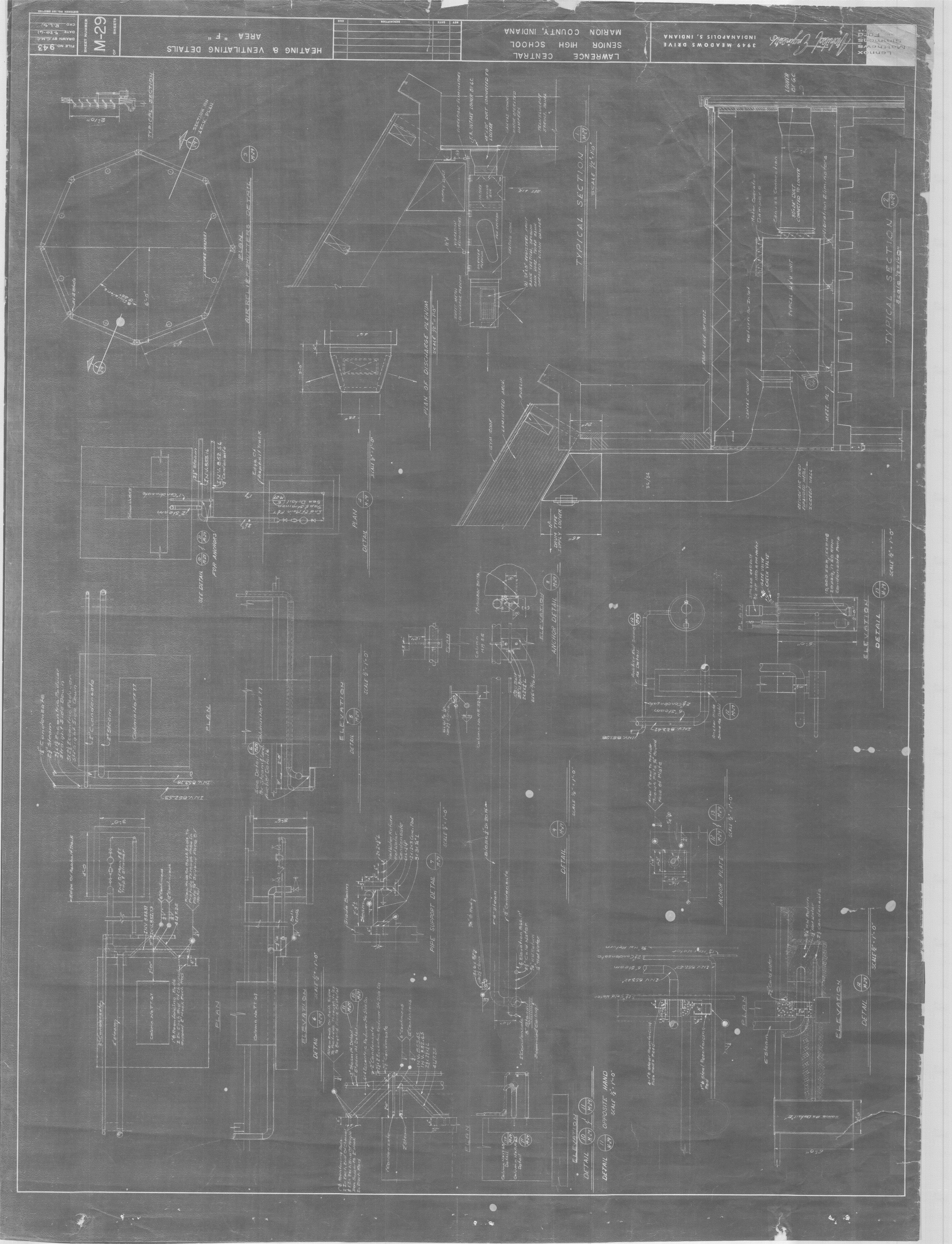
LAWRENCE CENTRAL
SENIOR HIGH SCHOOL
MARION COUNTY, INDIANA


3949 MEADOWS DRIVE
INDIANAPOLIS 5, INDIANA
Architect Engineers


M-24



BOILER ROOM DETAILS
LAWRENCE CENTRAL
SENIOR HIGH SCHOOL
MARION COUNTY, INDIANA
3949 MEADOWS DRIVE
INDIANAPOLIS 5, INDIANA
Lennox
Matthews
Simmons
Ford
SHEET NUMBER
M-25
SECTION
CONVERTER SUPPORT
EXPANSION TANK DETAIL
CONVERTER STEAM PIPING PLAN



HEATING & VENTILATING DETAILS
AREA "F"
SHEET NUMBER
M-29
FILE NO. 943
DRAWN BY G.M.G.
DATE 7-20-61
CKD R.L.G.
LAWRENCE CENTRAL
SENIOR HIGH SCHOOL
MARION COUNTY, INDIANA
3949 MEADOWS DRIVE
INDIANAPOLIS 5, INDIANA
Lennox Matthews Simmons Ford
TYPICAL SECTION
PLAN OF DISCHARGE PLENUM
AIR RELIEF SHUTTERS DETAIL
PIPE SUPPORT DETAIL
ANCHOR DETAIL
ANCHOR PLATE
OPPOSITE HAND
ELEVATION
DETAIL
PLAN

# HEATING & VENTILATING DETAILS

SHEET NUMBER M-30 OF SHEETS

FILE NO. 243
DRAWN BY R.L.S.
DATE 7-20-61
REV R.L.S.

| REV | DATE | DESCRIPTION | CKD |
|---|---|---|---|
| | | | |

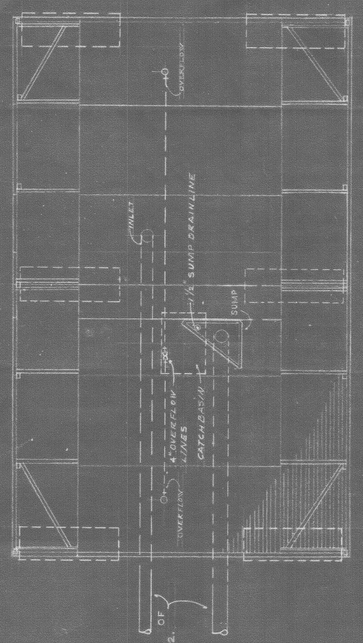
LAWRENCE CENTRAL
SENIOR HIGH SCHOOL
MARION COUNTY, INDIANA

Lennox
McElhaney
Shumaker
Ford
Associates

3949 MEADOWS DRIVE
INDIANAPOLIS 5, INDIANA

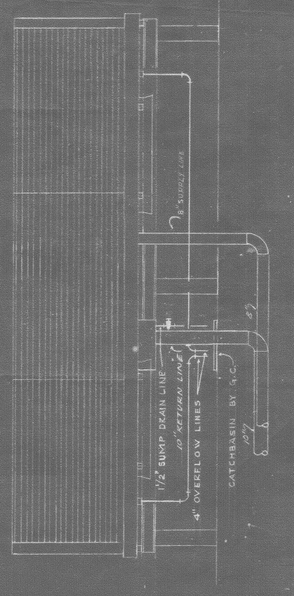
## COOLING TOWER PLAN

SCALE 1/4"=1'-0"

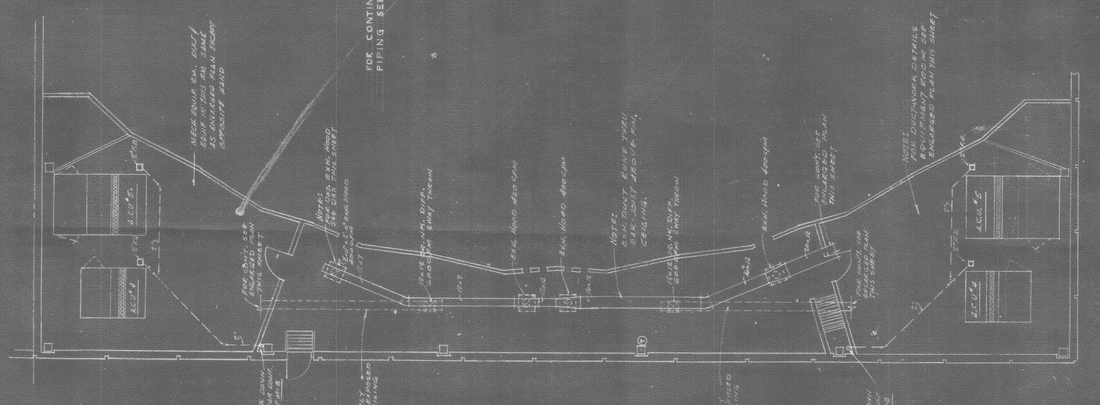



## COOLING TOWER ELEVATION

SCALE 1/4"=1'-0"




FOR CONTINUATION OF PIPING SEE SHT. 2.

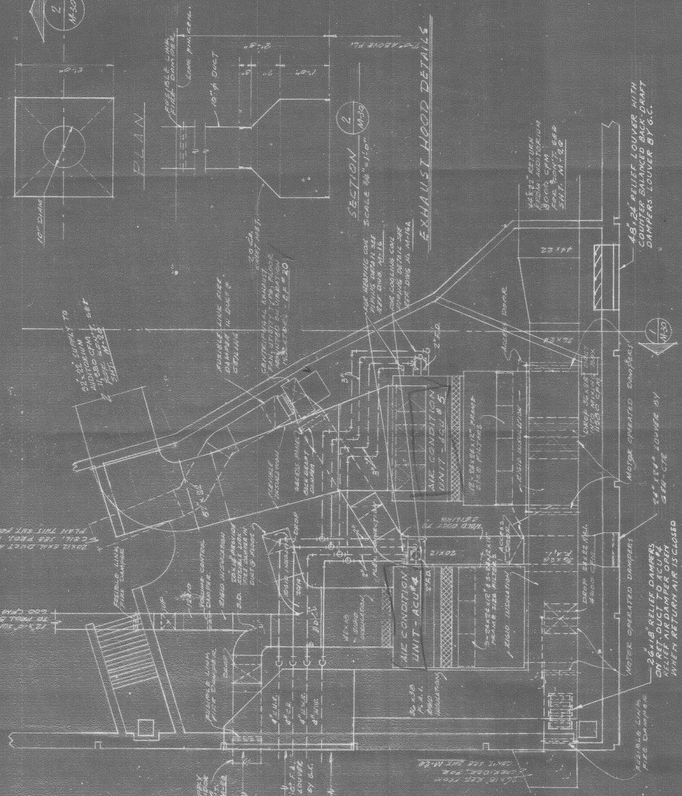


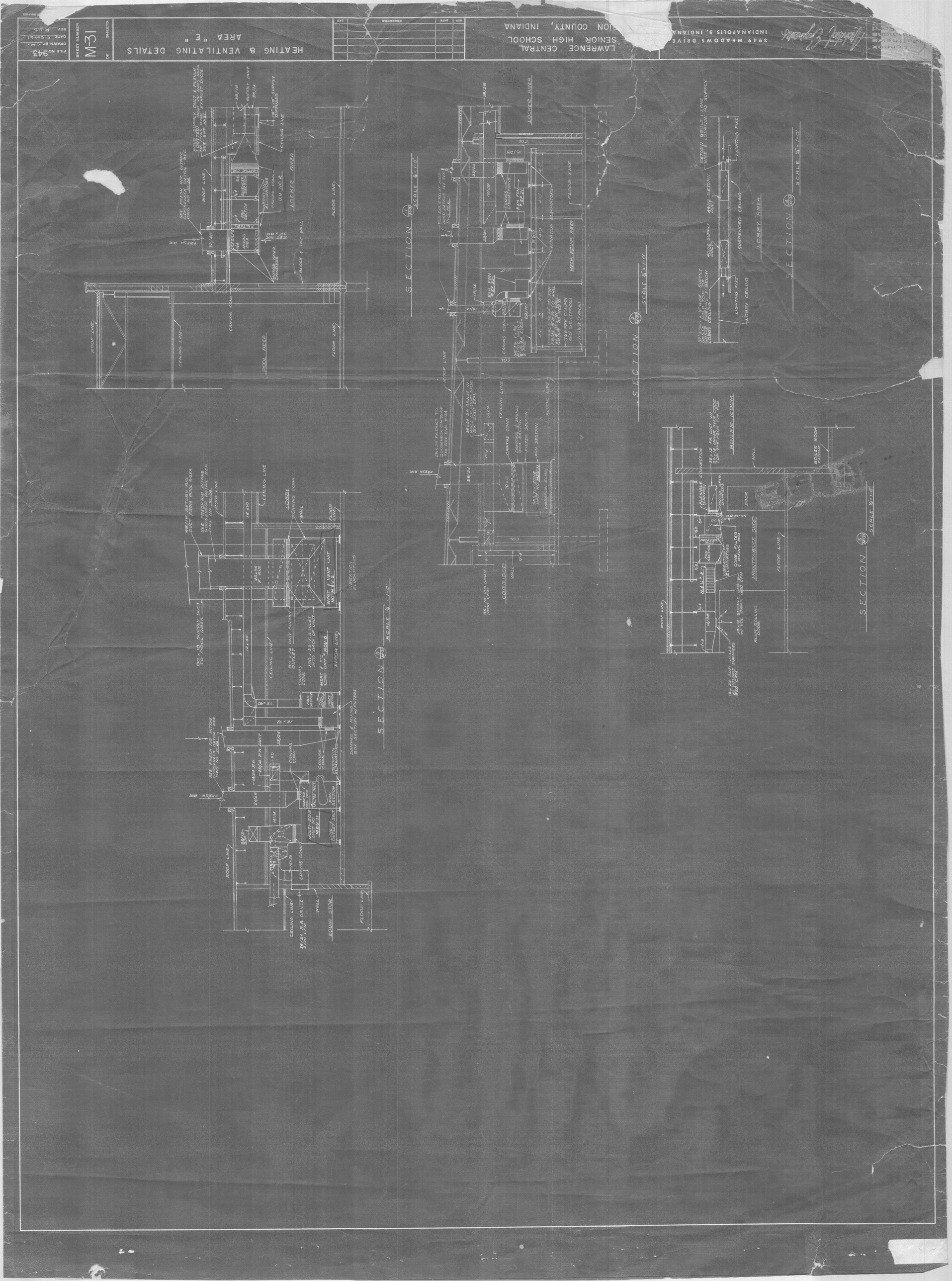

## PROJECTION BOOTH PLAN

1/4" = 1'-0"

## ENLARGED EQUIPMENT ROOM PLAN

1/4" = 1'-0"


EXHAUST HOOD DETAILS
PLAN
SECTION
SECTION
AIR CONDITION UNIT - ACU-1
AIR CONDITION UNIT - ACU-2
ROOF OPENING FOR EXHAUST HOOD
ROOF OPENING FOR EXHAUST HOOD
ROOF OPENING FOR EXHAUST HOOD



HEATING & VENTILATING DETAILS
AREA "E"
SHEET NUMBER
M-31
OF SHEETS
LAWRENCE CENTRAL
SENIOR HIGH SCHOOL
ION COUNTY, INDIANA
3949 MEADOWS DRIVE
INDIANAPOLIS 5, INDIANA
SECTION
SCALE 1/4" = 1'-0"
POOL AREA
LOCKER AREA
LOBBY AREA
BOILER ROOM
MAINTENANCE SHOP
CORRIDOR
EQUIP. STOR.
ROOF LINE
CEILING LINE
FLOOR LINE
FRESH AIR

NOTE
COOLING COILS ARE BASED ON 10° RISE IN WATER TEMP
HEATING COILS ARE BASED ON 20° DROP IN WATER TEMP
FILTER AIR FRICTION VALUES SHOWN ARE INITIAL AND FINAL LOSSES THROUGH FILTERS

# AIR CONDITIONING UNIT & MULTI-ZONE UNIT SCHEDULE

| MARK NO. | FAN CFM | FAN SP IN $H_2O$ | FAN OUTLET VEL. FPM | FAN BHP | FAN RPM | HEATING COIL ROWS | HEATING COIL FACE TUBES | HEATING COIL TUBE LENGTH | HEATING COIL FACE AREA $FT^2$ | HEATING COIL TYPE | HEATING COIL ENT. AIR °F | HEATING COIL L.V. AIR °F | HEATING COIL CAPACITY BTU/HR | HEATING COIL AIR FRICTION | HEATING COIL WATER FRICTION | COOLING COIL ROWS | COOLING COIL FACE AREA | COOLING COIL TUBE LENGTH | COOLING COIL ENTERING DB | COOLING COIL ENTERING WB | COOLING COIL LEAVING DB | COOLING COIL LEAVING WB | COOLING COIL SENS. LOAD BTU/HR | COOLING COIL TOT. LOAD BTU/HR | COOLING COIL WATER FRICTION | COOLING COIL AIR FRICTION | FILTERS AIR FRICTION INITIAL & FINAL SP IN. OF WG | FILTERS NO. REQ'D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MZU#1 | 11700 | 2.00 | 1520 | 8.70 | 824 | 4 | 21 | 8'-0" | 19.2 | WATER | 41° | 120° | 1600000 | 8" WA | 7 FT. | 4 | 32.7 ft² | 5'-0" | 84.0 | 70.5 | 60 | 57.5 | 494000 | 770000 | 10 FT | 40" WA | 0.28 - 0.60 | 10-24X24X12 |
| MZU#2 | 4350 | 1.50 | 1400 | 2.50 | 1714 | 3 | 8 | 4'-0" | 5.6 | " | 39° | " | 430000 | .55 " | 10 FT. | 4 | 10.81 ft² | 4'-0" | 84.0 | 70.5 | 60 | 58.5 | 134000 | 193600 | 8 FT | 50 " | " | 4-24X24X12 2-24X12X12 |
| MZU#3 | 3650 | 1.75 | 1560 | 6.70 | 1135 | 3 | 15 | 9'-0" | 15.7 | " | 57° | " | 920000 | .50 " | 15 FT. | 4 | 31.16 ft² | 9'-0" | 82.5 | 68.5 | 60 | 58.0 | 319600 | 442 200 | 8 FT | .32 " | " | 15-24X24X12 |
| MZU#4 | 21200 | 2.25 | 1400 | 10.00 | 910 | 4 | 21 | 10'-0" | 24.5 | " | 42° | " | 1770000 | .75 " | 9 FT. | 4 | 48.5 ft² | 10'-0" | 86.3 | 70.2 | 60 | 58.0 | 541000 | 807000 | 13 FT | .38 " | " | 9-24X24X12 2-24X12X12 |
| MZU#5 | 10900 | 1.75 | 1290 | 5.20 | 1105 | 3 | 15 | 7'-0" | 19.2 | " | 53° | " | 730000 | .60 " | 11 FT. | 4 | 24.14 ft² | 7'-0" | 82.2 | 68.0 | 60 | 58.0 | 259500 | 343000 | 5 FT. | .43 " | " | 12-24X24X12 |
| MZU#6 | 14200 | 2.25 | 1710 | 9.33 | 1290 | 4 | 15 | 9'-0" | 15.7 | " | 45° | " | 1200000 | .80 " | 9 FT | 4 | 31.16 ft² | 9'-0" | 85.0 | 70.0 | 60 | 59.5 | 395000 | 543000 | 10 FT. | .36 " | " | 15-24X24X12 |
| MZU#7 | 13550 | 2.25 | 1700 | 9.10 | 1288 | 4 | 15 | 9'-0" | 15.7 | " | 30° | " | 1400000 | .80 " | 9 FT | 4 | 31.16 ft² | 9'-0" | 86 | 70.5 | 60 | 59.0 | 413000 | 624000 | 13 FT. | .54 " | " | 15-24X24X12 |
| MZU#8 | 9000 | 2.00 | 1450 | 8.35 | 820 | 4 | 21 | 8'-0" | 19.2 | " | 36° | " | 1630000 | .80 " | 7 FT. | 4 | 38.7 ft² | 8'-0" | 86 | 70.5 | 60 | 59.0 | 511000 | 740000 | 10 FT | .47 " | " | 15-24X24X12 2-24X12X12 |
| MZU#9 | 20100 | 2.25 | 1680 | 1150 | 888 | 4 | 21 | 8'-0" | 19.2 | " | 41° | " | 1800000 | .80 " | 8 FT. | 6 | 32.7 ft² | 8'-0" | 85 | 70.0 | 60 | 57.5 | 555 000 | 832 000 | 17 FT. | .62 " | " | 18-24X24X12 2-24X12X12 |
| MZU#10 | 9200 | 1.00 | 1600 | 2.80 | 896 | 2 | 22 | 5'-6" | 19.2 | " | 64° | " | 480000 | .142 | 2.96 | 4 | 18.8 | 5.6 | 83 | 69 | 60 | 57 | 228000 | 370000 | 12 FT. | .39 " | " | 10-20X25 FLAT ANGLE FILTERS |
| MZU#11 | 5700 | 1.50 | 1580 | 2.50 | 1377 | 4 | 12 | 5'-6" | 7.70 | NON-FREEZE STEAM | 20° | " | 620000 | .35 | —— | —— | —— | —— | —— | —— | —— | —— | —— | —— | —— | —— | —— | —— |
| ACU#1 | 7350 | 1.75 | 1270 | 3.30 | 1095 | 3 | 24 | 5'-6" | 15.40 | WATER | 48° | 120 | 865 000 | .21 " | 4 FT. | 4 | 15.10 | 5'-6" | 84.0 | 69.5 | 60 | 58.5 | 186500 | 232 000 | 3 FT. | .50" | 0.28 - 0.60 | 8-24.24x12 |
| ACU#2 | 13700 | 2.00 | 1450 | 9.10 | 828 | 2 | 42 | 8'-0" | 39.2 | " | 52° | " | 1360 000 | .15 | 3 FT. | 4 | 38.7 | 8'-0" | 83.0 | 69.0 | 60 | 58.5 | 465000 | 577 000 | 7 FT | .40" | " | 18-24x24x12 |
| ACU#3 | 11700 | 1.75 | 1550 | 8.70 | 798 | 2 | 48 | 8'-6" | 47.6 | " | 50° | " | 1500 000 | .15 | 5 FT. | 4 | 47.0 | 8'-6" | 82.4 | 70.0 | 59 | 57.5 | 483000 | 786 000 | 11 FT | .35 | " | 18-24.24x12 |
| ACU#4 | 1600 | 1.50 | 1250 | 1.90 | 1320 | 2 | 18 | 5'-6" | 11.6 | " | 44° | " | 375 000 | .10 | 5 FT | 5 | 11.31 | 5'-6" | 85.0 | 70.0 | 60 | 58.5 | 124300 | 177 900 | 5 FT | .32 | " | 6-24x24x12 2-24x12x12 |
| ACU#5 | 12000 | 1.75 | 1390 | 5.80 | 1119 | 2 | 30 | 7-0 | 24.4 | " | 43 | " | 1 000 000 | .15 | 5 FT | 5 | 24.14 | 7'-0" | 85.0 | 70.5 | 59 | 57.5 | 317000 | 467 000 | 11 FT | .48 | " | 12-24.24x12 2 REQ'D |
| ACU#6 | 3850 | 1.25 | 1100 | 1.95 | 1640 | 2 | 12 | 5'-6" | 7.7 | NON-FREEZE STEAM | 50 | " | 290000 | .15 | —— | 4 | 7.54 | 5'-6" | 82.0 | 68.0 | 60 | 58.5 | 100000 | 120 000 | 3 FT | .45 | —— | FLAT ANGLE FILTERS |

# SUPPLY FAN SCHEDULE

| MARK NO. | CFM | SP IN. $H_2O$ | OUTLET VELOCITY F.P.M. | BRAKE H.P. | FAN RPM | HEATING COIL ROWS | FACE TUBES | TUBE LENGTH | FACE AREA $FT^2$ | TYPE | ENT. AIR °F | L.V. AIR °F | CAPACITY BTU/HR. | AIR FRICTION | WATER FRICTION | COOLING COIL ROWS | FACE MIN. | TUBE LENGTH | ENTERING DB | ENTERING WB | LEAVING DB | LEAVING WB | SENS. LOAD BTU/HR | TOT. LOAD BTU/HR. | WATER FR. | AIR FRICTION IN INCHES OF $H_2O$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SF #1 | 5600 | 1/4" | 1630 | 1.7 | 915 | 3 | 17 | 4'-6" | 8.6 ft² | W.A. | 60° | 120° | 340 000 | .35 | 5 FT. | 5 | 12.2 ft² | 5'-0" | 80 | 67 | 60 | 58 | 120 000 | 150 000 | 3.0 | 0.43 |
| SF #2 | 3000 | 1/4" | 1600 | 0.9 | 1210 | 3 | 11 | 4'-0" | 4.9 ft² | W.A. | 60° | 120° | 195 000 | .35 | 5 FT. | 5 | 7.0 ft² | 4'-0" | 80 | 67 | 60 | 58 | 65 000 | 82 000 | 2.0 | 0.42 |
| SF #3 | 5900 | 1/4" | 1720 | 1.78 | 933 | 3 | 17 | 5'-0" | 9.6 ft² | W.A. | 60° | 120° | 380 000 | .35 | 6 FT. | 5 | 12.2 ft² | 5'-0" | 80 | 67 | 60 | 58 | 128 000 | 160 000 | 3.0 | 0.50 |
| SF #4 | 5650 | 1/4" | 1640 | 1.72 | 916 | 3 | 17 | 4'-6" | 8.6 ft² | W.A. | 60° | 120° | 370 000 | .35 | 5 FT. | 5 | 12.2 ft² | 5'-0" | 80 | 67 | 60 | 58 | 128 000 | 155 000 | 3.0 | 0.45 |

NOTE
ALL SUPPLY FANS SHALL HAVE VARIABLE INLET VANE DAMPERS

# EXHAUST FAN SCHEDULE

| MARK NO. | TYPE | CFM | SP IN. $H_2O$ | OUTLET VELOCITY | FAN RPM. | BHP | REMARKS |
|---|---|---|---|---|---|---|---|
| EF.1 | UTILITY SET | 5600 | 3/4 | 1650 | 385 | 1.26 | PENTHOUSE # 1 |
| EF.2 | " " | 2100 | 1/2 | 1650 | 555 | 0.36 | " #1 |
| EF.3 | " " | 1100 | 1/2 | 1300 | 625 | 0.15 | " #1 |
| EF.4 | " " | 6050 | 3/4 | 1750 | 393 | 1.40 | " #2 |
| EF.5 | " " | 3950 | 1" | 1750 | 535 | 1.10 | " #2 |
| EF.6 | " " | 1100 | 1/2" | 1300 | 625 | 0.15 | " #2 |
| EF.7 | " " | 2400 | 3/4 | 1258 | 899 | 1/2 | " #2 |
| EF.8 | " " | 5700 | 3/4" | 1680 | 388 | 1.27 | " #3 |
| EF.9 | " " | 1550 | 1/2" | 1800 | 704 | 0.29 | " #3 |
| EF.10 | " " | 1550 | 3/4" | 1800 | 792 | 0.35 | " #3 |
| EF.11 | " " | 400 | 3/4" | 700 | 1200 | 0.12 | " #3 |
| EF.12 | " " | 1180 2000 | 1/2" | 2200 | 1166 720 | 1.50 | " #3 2 SPEED MOTOR |
| EF.13 | " " | 2200 | 1" | 1750 | 710 | 0.59 | " #3 |
| EF.14 | " " | 900 | 3/4" | 1100 | 737 | 0.19 | " #3 |
| EF.15 | C | 1650 | 1/4 | 1919 | 645 | 1/2 | AREA "C" - METAL SHOP - ON ROOF |
| EF.16 | C | 4000 | 1/4 | 1741 | 336 | 1/2 | AREA "C" - METAL SHOP - ON ROOF |
| EF.17 | C | 3900 | 3/8 | 1378 | 298 | 3/4 | AREA "D" - KITCHEN - ON ROOF |
| EF.18 | C | 9300 | 3/8 | 1488 | 220 | 2 | AREA "D" - KITCHEN - ON ROOF |
| EF.19 | B | 133 | 3/8 | —— | 1550 | 1/25 | AREA "D" - KITCHEN - ON ROOF |
| EF.20 | UTILITY SET | 1600 | 3/8 | 1250 | 345 | 1/8 | AREA "D" - PROJECTION RM. |
| EF.21 | " " | 4150 | 3/4 | 1467 | 326 | 3/4 | AREA "E" - POOL EQUIP. RM. |
| EF.22 | " " | 1450 | 1/2 | 1381 | 524 | 1/4 | AREA "E" - POOL EQUIP. RM |
| EF.23 | A | 7826 | 3/8 | —— | 540 | 2 | AREA "E" - POOL RM - ON ROOF |
| EF.24 | A | 1820 | 3/8 | —— | 1175 | 1/2 | AREA "E" - TOILET RMS - ON ROOF |
| EF.25 | B | 350 | 1/4 | —— | 1550 | 1/15 | AREA "E" - ATH. DIR & COACH. RM - ROOF |
| EF.26 | B | 470 | 1/4 | —— | 579 | 1/8 | AREA "E" DRYING RM - ON ROOF |
| EF.27 | UTILITY SET | 920 | 1/4 | 1436 | 622 | 1/8 | AREA "F" - ON MEZZ 1 & 2 |
| EF.28 | " " | 1180 | 1/4 | 1126 | 477 | 1/4 | AREA "F" ON MEZZ 3 & 4 |
| EF.29 | B | 2700 | 3/4 | —— | 420 | 1/2 | AREA "G" on ROOF over FOOD LAB. |

NOTE:
EF #11 IS BACKWARD BLADE
EXHAUST FANS TYPE "A" BELT DRIVE
EXHAUST FANS TYPE "B" DIRECT DRIVE
EXHAUST FANS TYPE "C" UTILITY SET

# RETURN AIR FAN SCHEDULE

| MARK NO. | CFM | SP IN. $H_2O$ | OUTLET VELOCITY | BHP | RPM | REMARKS |
|---|---|---|---|---|---|---|
| RF #1 | 2900 | 3/4" | 1600 | .84 | 1090 | PENTHOUSE #1 |
| RF #2 | 10100 | 1" | 1750 | 2.70 | 650 | " " #2 |
| RF #3 | 17000 | 1" | 1820 | 4.50 | 555 | " " #3 |
| RF #4 | 13600 | 1/2" | 1650 | 3.05 | 410 | " " #3 |

NOTE
ALL RETURN FANS SHAL HAVE VARIABLE INLET VANE DAMPERS

# UNIT VENTILATOR & HEATING & VENTILATING UNIT SCHEDULE

| MARK NO. | FAN SECTION CFM STA. AIR | FAN SECTION OUTLET VELOCITY | FAN SECTION EXTERNAL SP IN. $H_2O$ | FAN SECTION MOTOR H.P. | FAN SECTION FAN RPM | HEATING COIL STEAM TOTAL EDR | HEATING COIL STEAM ENT. AIR °F | HEATING COIL STEAM L.V. AIR °F | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| H&V #1 | 12,800 | 1860 | 1" | 5 | 645 | 4,590 | 39.5 | 120.0 | AREA "F" GYM |
| H&V #2 | 15,650 | 1222 | 5/8 | 3 | 517 | 6,320 | 30.0 | 120.0 | AREA "E" POOL EQUIP. RM. |
| H&V #3 | 2,500 | 1080 | 1/2" | 1/6 | 1067 | 529 | 68.5 | 120.0 | AREA "G" MAINTENANCE SHOP |
| H&V #4 | 12,200 | 1414 | 3/4" | 3 | 1122 | 5,500 | -10.0 | 90.0 | PENTHOUSE NO 3 |
| UV #1 | 6,500 | 1225 | 1/4 | 1/2 | 725 | 914 | 43.5 | 128.0 | AREA "F" GYM |
| UV #2 | 5,000 | 1036 | 1/2 | 1/3 | 437 | 2,925 | -10.0 | 120.0 | AREA "E" - SHOWER RMS. |
| H&V #5 | 5,500 | 798 | 1/2 | 1/3 | 663 | 1,980 | -10.0 | 70.0 | BOILER RM. |

NOTE: ALL STEAM COILS SHALL BE NON-FREEZE TYPE
H&V #5 SHALL OPERATE ON 100% FRESH AIR @ ALL TIME, SUPPLYING COMBUSTION AIR TO BOILERS.

# UNIT HEATER SCHEDULE

| MARK NO. | MBH | CFM @ FINAL TEMP °F | H.P. | R.P.M. | TYPE | G.P.M. | PRES. DROP FT. $H_2O$ |
|---|---|---|---|---|---|---|---|
| U.H.#1 | 13.7 | 280 103°F | 1/20 | 750 | CABINET | 2.0 | 5.8' |
| U.H.#2 | 20.7 | 410 109°F | 1/20 | 750 | CABINET | 4.0 | 3.4' |
| U.H.#3 | 68.8 | 870 127°F | 1/8 | 750 | CABINET | 5.0 | .84' |
| U.H.#4 | 81.3 | 980 137°F | 1/4 | 980 | CABINET | 8.0 | 2.75' |
| U.H.#5 | 74.7 | 1920 93°F | 1/4 | 1550 | HEAVY DUTY | 4.0 | .8' |
| U.H.#10 | 81.3 | 980 137°F | 1/4 | 900 | CABINET | 8.0 | 2.75' |

1. CAPACITY BASED ON 200°F ENT. WTR. TEMP & 60°F ENT. AIR TEMP.

# UNIT HEATER SCHEDULE

| MARK NO. | CFM @ FINAL TEMP °F | TOTAL HEAT BTU/HR | H.P. | R.P.M. | TYPE | REMARKS |
|---|---|---|---|---|---|---|
| U.H.#6 | 665 115°F | 39,600 | 1/8 | 750 | CABINET | 60% CONCENTRATED ETHYLENE GLYCOL |
| U.H.#7 | 665 115°F | 39,600 | 1/8 | 750 | CABINET | CONCENTRATED ETHYLENE GLYCOL |
| U.H.#8 | 280 117°F | 17,300 | 1/20 | 750 | CABINET | 50% ETHYLENE GLYCOL |
| U.H.#9 | 340 129°F | 25,500 | 1/20 | 900 | CABINET | UNITS W/ 2" FILTER PROJECTION |

1. CAPACITY BASED ON 60°F ENT. AIR @ 5 PSIG STEAM

# HOOD SCHEDULE

| MARK NO. | DUCT SIZE | HOOD DIMENSIONS HEIGTH | WIDTH | THROAT DIM. | "A" |
|---|---|---|---|---|---|
| H-1 | 36 x 36 | 27 | 60 | 39¼ | 46 |
| H-2 | 18 x 18 | 16 | 32 | 21¾ | 28 |
| H-3 | 30 x 30 | 24½ | 51 | 33⅜ | 40 |
| H-4 | 41 x 41 | 31⅛ | 74 | 51¼ | 58 |

LAWRENCE CENTRAL SENIOR HIGH SCHOOL
MARION COUNTY, INDIANA
3949 MEADOWS DRIVE
INDIANAPOLIS, INDIANA