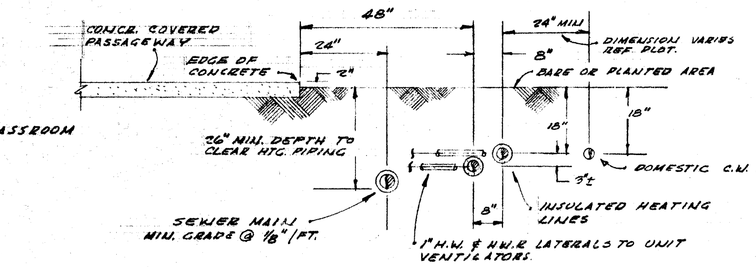
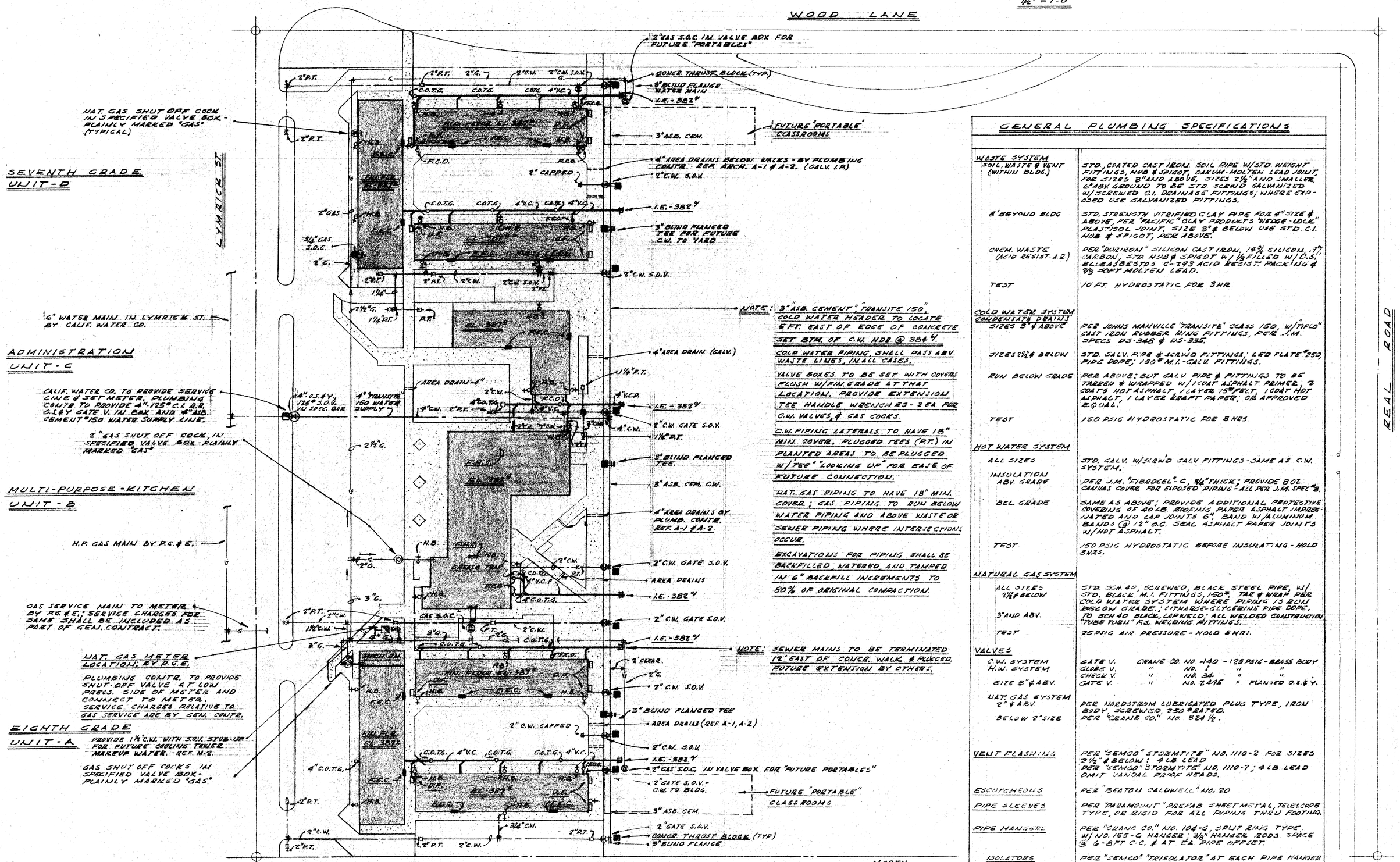
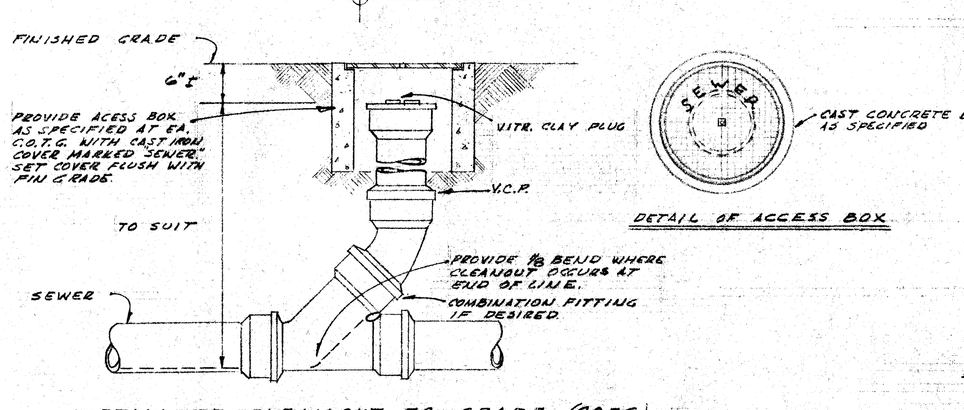


RELATIONSHIP OF PLUMBING & HEATING PIPING

1/4" = 1'-0"



PLUMBING PLOT PLAN



DETAIL OF CLEANOUT TO GRADE (C.O.T.G.)

N.T.S.

DETAIL OF ACCESS BOX

UTILITY COMPANY CHECK-OFF

NAT. GAS - P.G. & E.
WATER - CALIF. WATER CO.
SEWER -

GENERAL PLUMBING SPECIFICATIONS

WASTE SYSTEM

SOIL, WASTE & VENT (WITHIN BLDG.) — STD. CRATED CAST IRON, SOIL PIPE W/STD. WEIGHT FITTINGS, HUB & SPIGOT, CAULKED - MOLTEN LEAD JOINT FOR SIZES 2" AND ABOVE. SIZES 1½" AND SMALLER, GRADED AS REQUIRED TO BE STD. SCH. 40 GALVANIZED W/SCREWED CI. DRAINAGE FITTINGS, WHERE EXPOSED USE GALVANIZED FITTINGS.

5' BEYOND BLDG — STD. STRENGTH VITRIFIED CLAY PIPE FOR 4" SIZE & ABOVE, PER "PACIFIC CLAY PRODUCTS "HUBLESS-LOCK" PLASTISOL JOINT. SIZE 3" & BELOW USE STD. C.I. HUB & SPIGOT, PER ABOVE.

CHEM. WASTE (ACID RESIST. I.P.) — PER "DURIRON" SILICON CAST IRON, 14% SILICON, .7% CARBON, STD. HUB & SPIGOT W/ ½" FILLED W/ D.S. ASBESTOS C-797 ACID RESIST. PACKING & 9/16" SOFT MOLTEN LEAD.

TEST — 10 FT. HYDROSTATIC FOR 3 HR.

COLD WATER SYSTEM CONCENTRATE DRAWN SIZES 3" & ABOVE — PER JOHNS MANVILLE "TRANSITE" CLASS 150, W/TYTON CAST IRON RUBBER RING FITTINGS, PER J.M. SPECS. JAS 348 & DJS-335.

SIZES 1½" & BELOW — STD. GALV. I.P. & SCR'D FITTINGS; 150 PLATE 150 PIPE DOPE; 150 M.I.-GALV. FITTINGS.

RUN BELOW GRADE — PER ABOVE; BOT GALV. PIPE & FITTINGS TO BE TARRED & WRAPPED W/1 COAT ASPHALT PRIMER, 2 COATS HOT ASPHALT, 1 LAYER 15# FELT, 1 COAT HOT ASPHALT, 1 LAYER KRAFT PAPER, OR APPROVED EQUAL.

TEST — 150 PSIG HYDROSTATIC FOR 8 HRS.

HOT WATER SYSTEM

ALL SIZES — STD. GALV. W/SCR'D GALV FITTINGS - SAME AS C.W. SYSTEM.

INSULATION ABV. GRADE — PER J.M. "FIBROCEL" C. ¾" THICK; PROVIDE BOT. MANUAL COVER FOR EXPOSED PIPING - ALL PER J.M. SPEC'S.

BEL. GRADE — SAME AS ABOVE; PROVIDE ADDITIONAL PROTECTIVE COVERING OF 40 LB. ROOFING PAPER ASPHALT IMPREGNATED AND CAP JOINTS 6" BAND W/ALUMINUM BANDS @ 2'-0 C. SEAL ASPHALT PAPER JOINTS W/HOT ASPHALT.

TEST — 150 PSIG HYDROSTATIC BEFORE INSULATING - HOLD 8 HRS.

NATURAL GAS SYSTEM

ALL SIZES 2½" & BELOW — STD. SCH 40, SCREWED, BLACK, STEEL PIPE, W/ STD. BLACK M.I. FITTINGS, ISOT. TAR & WRAP PER C.O.G. WATER SYSTEM WHERE PIPING IS BURIED BELOW GRADE. ; FITNAGE-GLYCERINE PIPE DOPE.

3" AND ABV. — TO SCH 40 BLACK, CAPNELD, ALL WELDED CONSTRUCTION W/ BUTT WELDING FITTINGS.

TEST — 3 PSI AIR PRESSURE - HOLD 8 HRS.

VALVES

C.W. SYSTEM, H.W. SYSTEM — GATE V. CRANE CO NO 440 - 125 PSIG - BRASS BODY; GLOBE V. " NO. 1 " " ; CHECK V. " NO. 34 " " ; GATE V. " NO. 2415 " RANGED O.S.&Y.

SIZE 3" & ABV.

NAT. GAS SYSTEM 2" & ABV. — PER NORDSTROM LUBRICATED PLUG TYPE, IRON BODY, SCREWED, 250 RATED. PER "CRANE CO." NO. 924 ½.

BELOW 2" SIZE

VENT FLASHING — PER "SEMCO" "STORMTITE" NO. 1110-2 FOR SIZES 2½" & BELOW; 4 LB LEAD. PER "SEMCO" "STORMTITE" NO. 1110-7; 4 LB LEAD OMIT VANDAL PROOF HEADS.

ESCUTCHEONS — PER "BEATON CALDWELL" NO. 20

PIPE SLEEVES — PER "PAVAMOUNT" PREFAB. SHEET METAL, TELESCOPE TYPE, OR RIGID FOR ALL PIPING THRU FOOTING.

PIPE HANGERS — PER "GRINN CO." NO. 104-G, SPLIT RING TYPE W/ NO. 155-G HANGER, ⅜" HANGER RODS. SPACE @ 6-8 FT C.C. & AT EA. PIPE OFFSET.

ISOLATORS — PER "SEMCO" "TRISOLATOR" AT EACH PIPE HANGER SUPPORT, TRAPEZE SUPPORT, PIPE STRAP.

FIRE SPRINKLER HEADS — PER "CENTRAL AUTOMATIC SPRINKLER CORP" 1350 (½") CEILING MTD., PENDANT TYPE, ½" I.P.T. BRASS BODY, CHROME FINISH. W.B.C.U. APPROVED SCHEDULE SEE HEADS 212 FIRED HEATER ROOMS

VALVE, SEWER BOXES — VALVES; BOXES "BROOKS INC." MODEL "BH" "GAS, WATER" CAST COVER " " " " "ST" SEWER " "

HOSE BIBBS — PER "CHICAGO" NO. 387, ¾", ROUGH NICKEL PLATED, LOOSE KEY OPERATED, FEMALE FLANGED, MTG. HT @ 4'-6" PROVIDED BY OWNER.

FIRE HYDRANTS

FIRE EXTINGUISHER CABINETS - F.E.C. — PER "POTTER ROEMER" SEMI-RECESSED, 6" STUD WALL, CABINET NO. 753-X, WITH CENTER SECTION BREAK GLASS DOOR. PROVIDE W/ TWO (2) FIRE EXTINGUISHERS. PROVIDE WITH YALE MASTER LOCK PER WRITTEN SPECIFICATIONS.

EXTINGUISHERS BY OWNER

FIRE HOSE CABINETS - F.H.C. — PER "POTTER ROEMER" NOD 303X AT, 75 FT. 1½" FIRE HOSE & NOZZLE, RACK, VALVE, BREAK GLASS DOOR W/ LOCK. STYLE: PROVIDE WITHOUT HAND EXTINGUISHER, SEMI-RECESSED FOR 6" STUD WALL. PROVIDE CABINET WITH YALE MASTER LOCKS PER WRITTEN SPECIFICATIONS.

EXTINGUISHERS BY OWNER.

CLEANOUTS FLOOR (F.C.O.) — PER "ACORN" 120-S

WALL (W.C.O.) — PER "ACORN" 180-35H, HINGED COVER - CHROME W/ ALLEN HEAD LOCK.

WALL ACCESS BOX (VALVES) — PER "CORNAMAIR" TYPE "ADOE" SIZE 8X10" W/ALLEN LOCK; PRIME FINISH.

PLUMBING DESIGN

BLDG. UNIT	WASTE	WATER	NAT. GAS.
UNIT A NORTH	80 F.U.	90 F.U.	-
SOUTH	20	30	-
WEST	25	35	4000 CFH
UNIT B	70	80	1200 CFH
UNIT C	35	45	-
UNIT D NORTH	20	30	-
SOUTH	105	115	-
WEST	10	15	-
FUT. UNIT-D	10	15	300 CFH
FUT UNIT-A	10	15	300 CFH

NOTE: EQUIPMENT SCHEDULES FOR THE PROJECT, LIST QUANTITIES WHICH ARE THE ENGINEERS TAKEOFF FOR COST ESTIMATING PURPOSES; AND FOR CONTRACTORS CONVENIENCE; QUANTITIES SHOWN ON THE PLANS SHALL GOVERN IN ALL CASES.

LEGEND

WASTE	C.O.T.G.
COLD WATER	
HOT WATER	
NATURAL GAS	G
VENT	
HOT WATER (HEATING)	H.W.
HOT WATER RETURN"	H.W.R.
FLOOR DRAIN	F.D.
FLOOR SINK	F.S.
VALVE - WATER	GATE/GLOBE AS NOTED
VALVE - GAS	
HOSE BIBB	H.B.
WALL CLEANOUT	W.C.O.
FLOOR CLEANOUT	F.C.O.
CLEANOUT TO GRADE	C.O.T.G.
VALVE IN SPECIFIED BOX	GATE/GLOBE; GAS COCK
MANUAL VOL DAMPER	
AUTO. VOL DAMPER PER "CONTROL SYSTEM"	
CONDEN SATE DRAIN	C.D.
THERMOSTAT	(T) (PNEUMATIC TYPE)
GAS CONNECTION	
FIRE SPRINKLER HD.	S.H.
DRINKING FOUNTAIN	D.F.
CHEMICAL WASTE (ACID RESISTING)	A.R.
FIRE HOSE CABINET	F.H.C.
FIRE EXTINGUISHER CABINET	F.E.C.
ELECTRIC DRINKING FOUNTAIN	E.D.F.

PROJECT UTILITIES DESIGN

WASTE	400 F.U.
WATER	470 F.U. @ 1200 GPM PEAK DEMAND.
NAT. GAS	5800 CFH PEAK DEMAND

J. M. HAGGMACHER
CONSULTING ENGINEER
M.E. 11188 PA 4-8210
BAKERSFIELD, CALIFORNIA

STATE OF CALIFORNIA — DEPARTMENT OF PUBLIC WORKS — DIVISION OF ARCHITECTURE
19268 APPROVED OCT 22 1959
APPLICATION No. — By — DISTRICT ARCHITECT

ARCHITECTS — C-767 — DATE: Oct 20 1959

WRIGHT METCALF & PARSONS
Architects A.I.A.
3232 E STREET • FAIRVIEW 4-8416 • P. O. BOX 3844
BAKERSFIELD, CALIFORNIA

DATE:

BAKERSFIELD CITY SCHOOL DISTRICT BOARD OF EDUCATION APPROVED: — DATE: OCT 26 1959

DATE: OCT 26 1959
DRAWN BY: J.M.H.
CHECKED BY:

PLUMBING PLOT PLAN
NEW JUNIOR HIGH SCHOOL
WOOD LANE & REAL ROAD
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, CALIFORNIA

JOB NO. 404
SHEET NO. M 1

DIETZGEN-POST CLEARPRINT 1000H