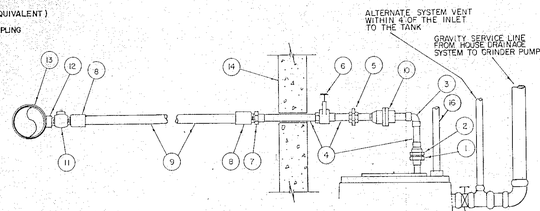
1. GRINDER PUMP, DISCHARGE - 1.25" MPT
2. ADAPTER - 1.25" FPT X 1.25" SWEAT, COPPER
3. ELBOW 90° - 1.25" SWEAT X SWEAT, COPPER (NIBCO 607 OR EQUIVALENT)
4. PIPE - 1.25" TYPE K, COPPER
5. DISCONNECT JOINT - 1.25" UNION OR COMPRESSION TYPE COUPLING
6. VALVE - 1.25" FULLY PORTED
7. ADAPTER - 1.25" MPT X SWEAT, COPPER
8. ADAPTER - 1.25" FPT X 1.25" SOCKET, PVC
9. PIPE - 1.25" PVC (160 PSI MIN.)
10. CHECK VALVE - 1.25" FULLY PORTED SWING TYPE
11. CORPORATION STOP - 1.25" MPT X MPT, BRASS
12. TEE OR TAPPING SADDLE - 1.25" FPT
13. LOW PRESSURE MAIN OR PRESSURE SEWER HEADER
14. FOUNDATION WALL
15. SAN. SEWER
16. SYSTEM VENT (2")

GENERAL NOTES

ALL GRINDER PUMPS MUST HAVE A BACK-UP POWER CONNECTION CAPABLE OF ACCEPTING A MOBILE GENERATOR, APPLICABLE ELECTRICAL CODES, AS REQUIRED. GENERATOR TO BE THE RESPONSIBILITY OF THE PROPERTY OWNER.

ALL GRINDER PUMPS MUST BE EQUIPPED WITH AN ALARM SYSTEM IN ACCORDANCE WITH STATE AND LOCAL CODES

DISCONNECT SWITCH AND TRANSFER SWITCH TO BE SUPPLIED BY GRINDER PUMP MANUFACTURER



DISCHARGE PIPING TO A LOW PRESSURE SEWER MAIN

N.T.S.

GRINDER PUMP

MODEL FARRELL 210

GENERAL APPLICATIONS

Its size, efficiency and operating economy make the GP 210 ideal for single dwellings, waterfront property, subdivision developments and minimal, it is ideally suited for new or existing communities

Underwriters Laboratories Inc. | National Sanitation Foundation | Certified to Canadian Standards Association

OPERATIONAL INFORMATION

Motor:
1 H.P., 1725 rpm, high torque, capacitor start, thermally protected, 240 volts 60 hertz, 1 amp, 1 phase

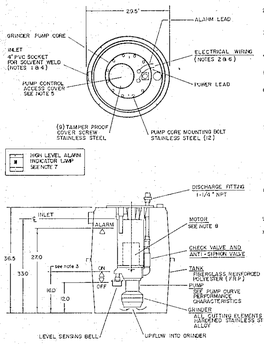
Inlet Connections:
4" PVC closet flange standard, Can be used with other piping sizes and materials using standard adapters

Discharge Connections:
Pump discharge terminates in 1¼ inch NPT male thread. Can easily be adapted to 1.24 inch PVC pipe or any other material required by local codes.

Normal Peak Design Pressure:
40 psig (92 ft head)

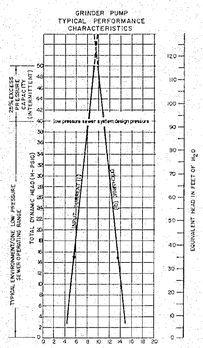
Discharge:
15 gpm at 0 psig
11 gpm at 40 psig

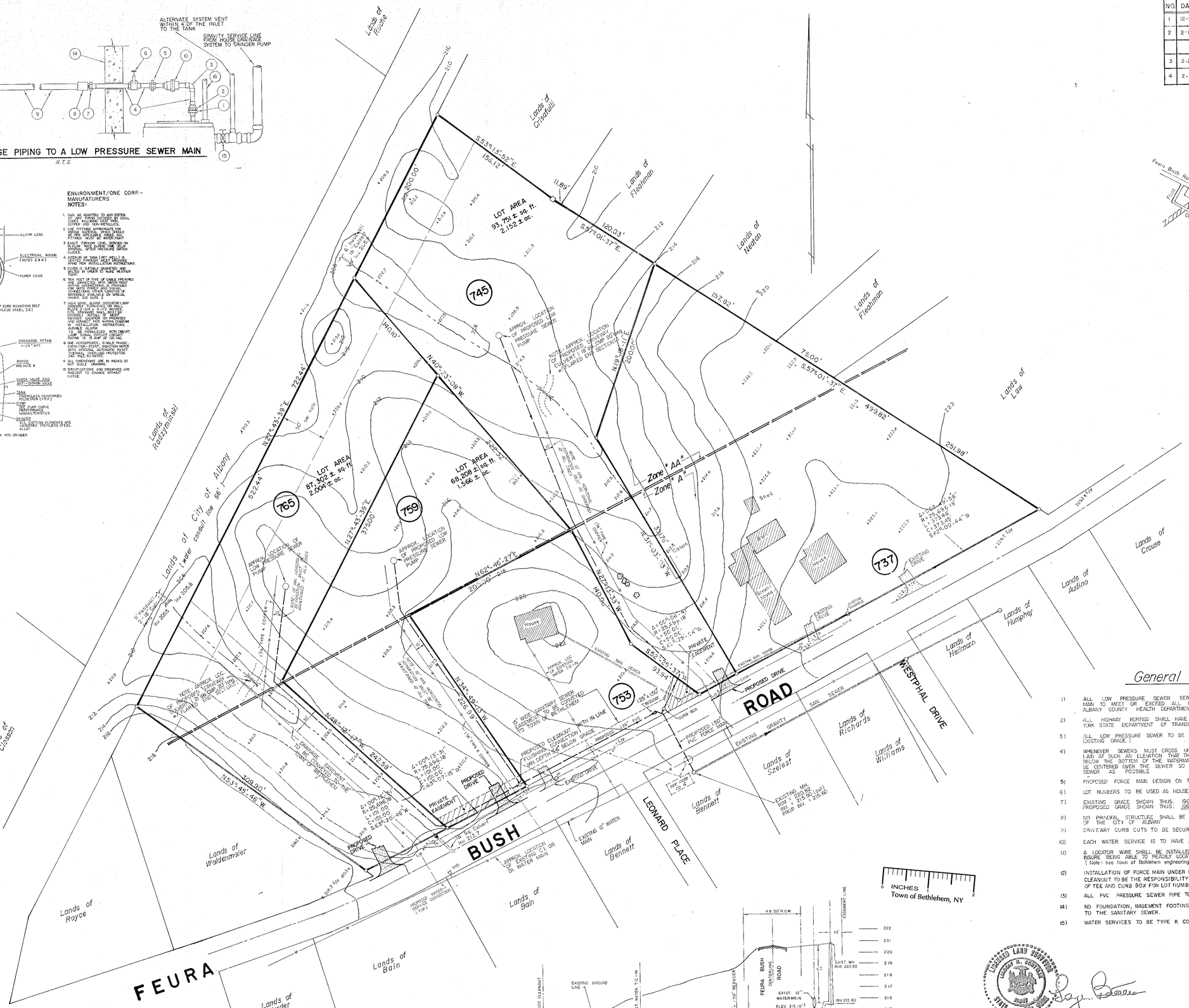
Overload Capacity:
Able to handle temporary peak pressure to 50 psig with no noticeable drop in output. Flow does not drop to zero or "shut off" as centrifugal pumps do. Maximum pressure which pump can generate is limited by motor characteristics to a value well below the rating of piping and appurtenances. Automatic reset feature does not require manual operation following overload.

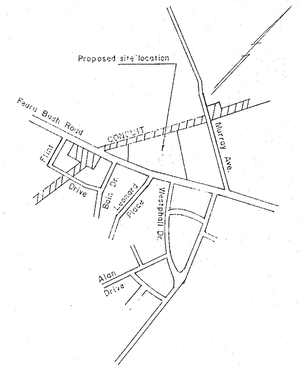


ENVIRONMENT/ONE CORP.-MANUFATURERS NOTES:

1. CAN BE ADAPTED TO ANY SYSTEM OF ONLY PUMPS ACCEPTED BY LOCAL CODES. PUMP CORE IS MADE OF COPPER AND NON-METALLICS.
2. USE FITTINGS APPROPRIATE FOR PIPING MATERIAL. SPACE SHOULD BE PER APPLICABLE CODES. ALL FITTINGS MUST BE WATERTIGHT
3. EASILY REPAIRS LEAK DAMAGED OR WORN PARTS WITHOUT DIGGING UP INTERNAL OFFER PRESSURE SWITCH CLOSES.
4. BOTTOM OF TANK (WET WELL) IS CONCAVE TO PREVENT SOLIDS FROM HAVE PER INSTALLATION INSTRUCTIONS.
5. COVER IS RATTLE GASKETED AND SEALED IN GREEN TO MARK WASTER TIGHT.
6. TEN FEET OF TYPE OF CABLE PROVIDED FOR ELECTRICAL CONNECTION TO ALARM OPERATIONAL IS PROVIDED FOR OUTT POWER AND VARIOUS CONDUCTORS. ALTERNATE LENGTHS OF MATERIALS AVAILABLE ON SPECIAL ORDER. SEE NOTE 2
7. HIGH LEVEL ALARM INDICATOR LAMP (RED LENS) FURNISHED ON WALL MOUNTED ALARM BOX. ALARM BOX MUST BE PLACE OTHERWISE INSTALL IN PROPER LOCATION. SEE ALARM INSTALLATION INSTRUCTIONS AND CONNECT PER WIRING DIAGRAM IN INSTALLATION INSTRUCTIONS. AUDIBLE ALARM TO BE PARALLELED NON-CIRCUIT BREAKER 120 VOLT CIRCUIT WITH RATING TO 15 AMP OF 120 VAC.
8. ONE HORSEPOWER, SINGLE PHASE, CAPACITOR-START, INDUCTION MOTOR WITH INTERNAL AUTOMATIC RESET THERMAL OVERLOAD PROTECTION. 240 VOLT, 60 HERTZ
9. ALL DIMENSIONS ARE IN INCHES. DO NOT SCALE DRAWING.
10. SPECIFICATIONS AND DRAWINGS ARE SUBJECT TO CHANGE WITHOUT NOTICE







Vicinity Sketch

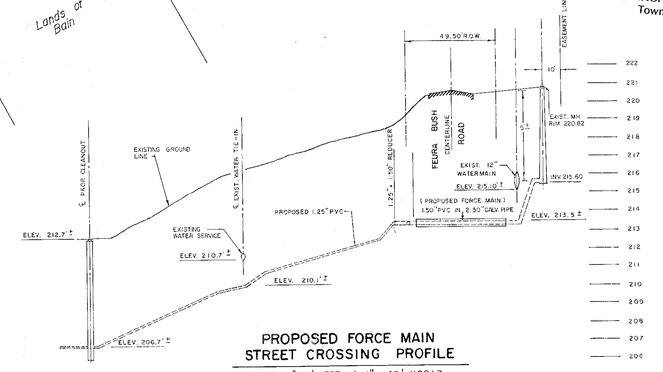
Scale 1" = 1,000'

REVISIONS

NO.	DATE	DESCRIPTION
1	12-13-88	PER ENGINEERING DEPT.
2	2-11-89	PER TOWN OF BETHLEHEM ENGINEERING DEPT. FILED IN A.C.C.O. 2/15/89 MAP NO. 7042 DRAWER NO. 172
3	2-2-93	MISCELLANEOUS REVISIONS PER ENGINEERS REVIEW
4	2-17-93	TYPICAL LOT LAYOUT

General Notes

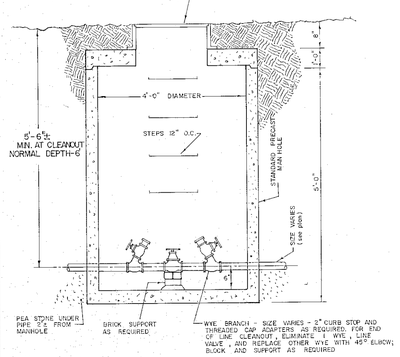
1) ALL LOW PRESSURE SEWER SERVICE CONNECTIONS TO PROPOSED FORCE MAIN TO MEET OR EXCEED ALL REGULATIONS SET BY NEW YORK STATE & ALBANY COUNTY HEALTH DEPARTMENTS AND THE TOWN OF BETHLEHEM.
2) ALL HIGHWAY BORINGS SHALL HAVE DETAILED PLANS APPROVED BY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION.
3) ALL LOW PRESSURE SEWER TO BE INSTALLED BELOW FROST LINE (6.0' BELOW EXISTING GRADE.)
4) WHENEVER SEWERS MUST CROSS UNDER WATERMAINS THE SEWER SHALL BE LAID AT SUCH AN ELEVATION THAT THE TOP OF THE SEWER IS AT LEAST 18-INCHES BELOW THE BOTTOM OF THE WATERMAIN. ONE FULL LENGTH OF WATERMAIN SHOULD BE CENTERED OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE.
5) PROPOSED FORCE MAIN DESIGN ON THE BASIS OF A COMPLETED SYSTEM
6) LOT NUMBERS TO BE USED AS HOUSE OR STREET NUMBERS.
7) EXISTING GRADE SHOWN THUS. 196.8
PROPOSED GRADE SHOWN THUS. 196.8
8) NO PRINCIPAL STRUCTURE SHALL BE PLACED WITHIN FIFTY FEET OF THE LANDS OF THE CITY OF ALBANY
9) DRIVEWAY CURB CUTS TO BE SECURED BY OWNER AND/OR CONTRACTOR.
10) EACH WATER SERVICE IS TO HAVE A REMOTE METER PIT
11) A LOCATOR WIRE SHALL BE INSTALLED WITH EACH PLASTIC DIRECT BURIAL MAIN TO INSURE BEING ABLE TO READILY LOCATE THE BURIED PIPING IN THE FUTURE (Note: see town of Bethlehem engineering department for information on installation.)
12) INSTALLATION OF FORCE MAIN UNDER FEURA BUSH ROAD AND OVER TO AND INCLUDING CLEANOUT TO BE THE RESPONSIBILITY OF THE DEVELOPERS. ALSO THE INSERTION OF TEE AND CURB BOX FOR LOT NUMBER 745.
13) ALL PVC PRESSURE SEWER PIPE TO BE SDR 26.
14) NO FOUNDATION, BASEMENT FOOTING OR BASEMENT DRAINS ARE TO BE CONNECTED TO THE SANITARY SEWER.
15) WATER SERVICES TO BE TYPE K COPPER MINIMUM 1 1/4"



PROPOSED FORCE MAIN STREET CROSSING PROFILE

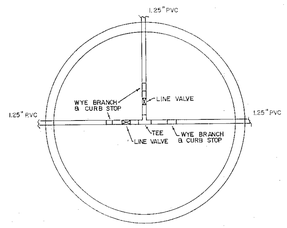
SCALE: 1" = 4' VERT. / 1" = 40' HORIZ.

NOTE: MANHOLE FRAME AND COVER TO BE LETTERED:
"BETHLEHEM SEWER DISTRICT" (LEBARON FOUNDRY NO. 268-1) (CAMPBELL FOUNDRY NO. 1009)



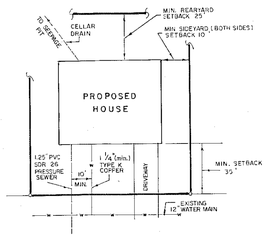
CLEANOUT DETAIL TYPICAL

NOT TO SCALE



PLAN

NOT TO SCALE



TYPICAL LOT LAYOUT

NOT TO SCALE

ALBANY COUNTY HEALTH DEPARTMENT APPROVAL

ALBANY COUNTY DEPARTMENT OF HEALTH

This is to certify that the proposed arrangements for water supply and sewerage for Terry Trued & Susan Bane Subdivision realty development in the Town of Bethlehem are approved subject to the conditions listed in letter of this date, and in accordance with Article X of the Albany County Sanitary Code. Consent is hereby given for the filing of this map in the Office of the Albany County Clerk.

Date 3/22/93 Commissioner of Health

By Stephen E. Lal P.E. Dir. Div. Environmental Health Services

PLANNING BOARD APPROVAL
PLANNING BOARD
TOWN OF BETHLEHEM
ALBANY COUNTY, NEW YORK

FINAL PLAT APPROVAL

When signed by the duly authorized officer of the Planning Board, this endorsement constitutes final Approval of this Plat.

Signed Martin L. Bane

Title CHAIRMAN

Date MAR 26 1993

See also Certificate of Approval of Final Plat No. 101-F-M

LICENSED LAND SURVEYOR LAWRENCE W. BOUTELLE STATE OF NEW YORK

MAP OF PROPERTY
OF

TERRY L. TRUED & SUSAN H. BANE

TOWN OF BETHLEHEM — ALBANY COUNTY
NEW YORK — DATE FEB. 8, 1988
SCALE 1" = 50' — REVISION NO. 4

SURVEY AND MAP BY
EDWARD W. BOUTELLE AND SON
CIVIL ENGINEERS AND SURVEYORS
A DIVISION OF J. KENNETH FRASER AND ASSOCIATES PE, LS, LA, P.C.
DELMAR, NEW YORK