

FEE 40.00

PERMIT No 955332

APPALACHIAN DISTRICT HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SECTION
Boone 264-4995 Jefferson 246-9449 Sparta 372-8813
IMPROVEMENTS PERMIT - CERTIFICATE OF COMPLETION

OWNER Bishop's Creek Town & Country Corp COUNTY WATKINS

LOCATION 321 S - spur off Rt 15 mi. N.W. of Tweetsie Railroad
PHONE _____

SUBDIVISION NAME _____ LOT NO. _____ SECTION NO. _____

THIS SYSTEM DESIGNED FOR:
RESIDENTIAL NO. OF UNITS 2
NO. OF BEDROOMS 2
BUSINESS 1-2 employees
OTHER _____

ESTIMATED DAILY FLOW RATE 360 GAL./DAY
SPECIAL FIXTURES None

BASEMENT: NO () YES () Fixtures in Basement ()

REPAIR AREA REQUIRED: YES () NO ()

WATER SUPPLY: WELL () SPRING ()
PRIVATE () PUBLIC ()

FmHA () FHA () VA ()

TYPE SYSTEM INSTALLED 1. Diameter pipe
Pump system

Site Classification: () Suitable
Provisionally Suitable ()

Soil Group TL Texture F-L Depth 32-36"

Slope (%) 35% Restrictive Horizons (In.) _____

Soil Drainage/Groundwater P3

Soil Permeability P3

Application Rate 1 Septic Tank Size 100 Gal.

Drainfield Size (sq. ft.) Trench 600 Bed _____
Stone Depth _____

Other: _____

COMMENTS/SPECIAL INSTRUCTIONS See attached sheets

APPROVED SITE PLAN

See attached sheets

Note: System must be installed as shown except by prior approval.

Installed by: Tim Greese

This system will replace old system at same location (system under parking area)

I certify that I have reviewed and agree to the provisions of this permit and any changes will be made only with prior Health Department approval. Note: Grading or excavating could change site suitability.

I certify that the information on this application is true and correct and will not be altered without prior Health Department Approval.

Owner/Agent _____ Date _____
Improvements Permit by L.D. Carness Date 4-10-95
Note: Improvements Permit valid for 60 months from date of issue.

Certification of Completion by L.D. Carness Date 4-28-95

FEE \$30.00

APPALACHIAN DISTRICT HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SECTION

SE 955332

Site Evaluation for Ground Absorption Sewage Disposal

REQUESTED BY Bishops Creek Town + Courtney Stone

COUNTY WATAUGA

SUBDIV. _____

LOT # _____

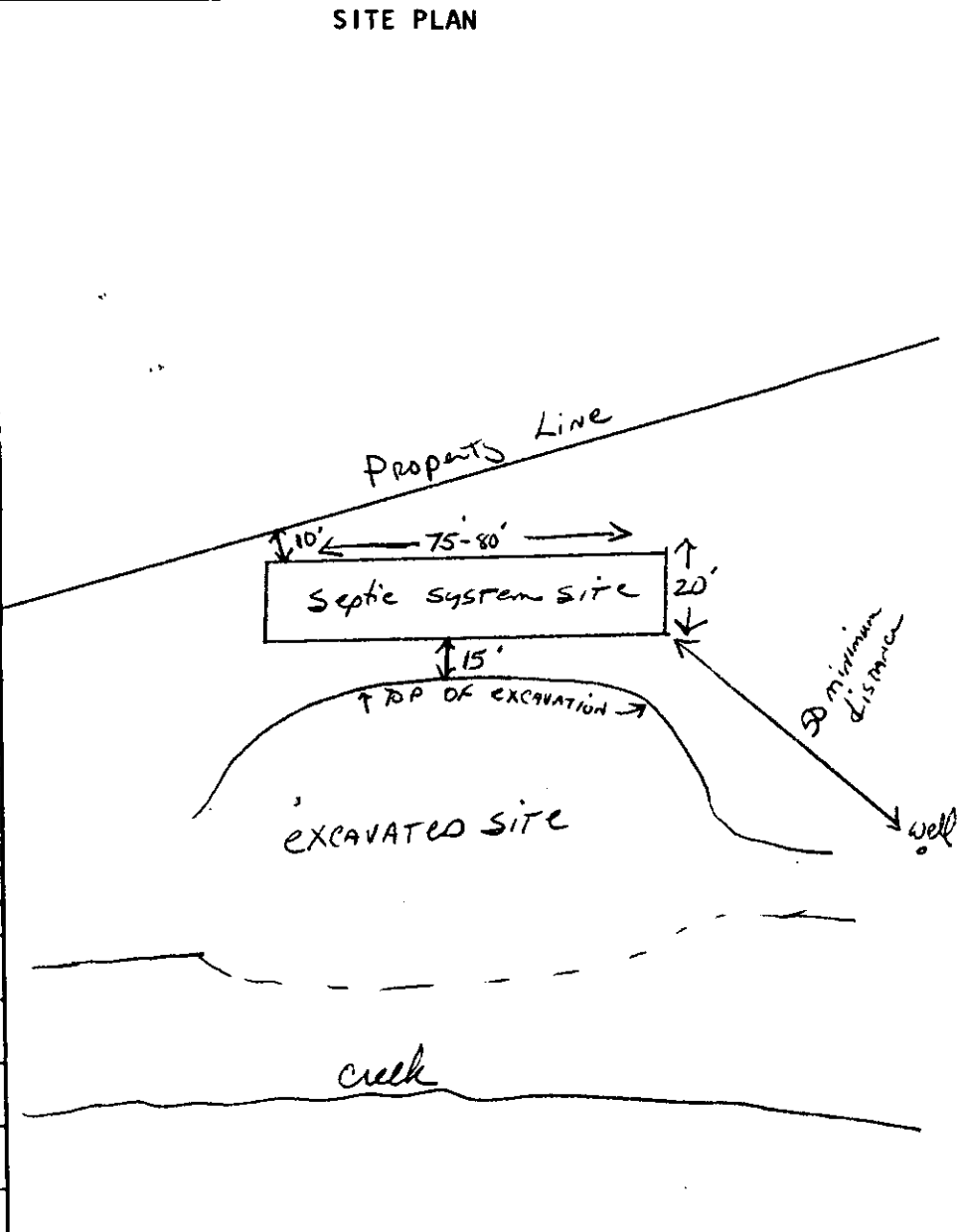
LOCATION 321 S from Boone rd Rt 5 miles from Tweetsie RAILROAD

LOT SIZE 1.27 ACRES TAX MAP REF. # 2819-82-1844-000

FACTORS	CLASSIFICATION
SLOPE (%)	S PS 35% U
SOIL TEXTURE (12-36 In.) (Sandy, <u>loamy</u> , clayey)	S PS U
SOIL STRUCTURE (12-36 In.) (Clayey Soils)	S PS U
SOIL DEPTH (In.)	S PS 32"-36" U
RESTRICTIVE HORIZONS (In.) (Impervious Strata, rock)	S PS U
SOIL DRAINAGE/GROUNDWATER (External & Internal)	S PS U
SOIL PERMEABILITY (Percolation Rate)	S PS U
OTHER (Specify)	S PS U

COMMENTS:

- Large diameter pipe placed on contour of land
- dig trenches no deeper than 20" on upper side of trench and cover system area with 12" of clean cover material.
- system maximum distance from well but not less than 50'



SITE CLASSIFICATION: S-SUITABLE PS-PROVISIONALLY SUITABLE U-UNSUITABLE

Described By: L & S Corvise Date 4-10-95

Title Environmental Health Specialist

Note: This is not a permit to install a sewage disposal system but merely an evaluation of the factors which determine site suitability. A permit must be obtained from the local health department before beginning construction. A permit for the proposed structure is issued and a sewage system designed on the basis of site classification, estimated daily sewage flow and available space. Evaluation based on current regulations. Changes in these regulations could effect site suitability.

Pump, Controls and Tanks

Name of Applicant or System Bishop's Creek TOWN + COUNTRY SPARE Date 4-10-95

Pump - non automatic - effluent/sewage design

- to deliver 20 gal/min at 68 ' of total dynamic head
- to handle $\frac{1}{2}$ " solids
- should be partially or fully submerged at all times

Controls - mercury float switches set to pump 15" drawdown

- wires must be conveyed to an outside junction box directly to the control panel through waterproof and gasproof conduits, with no splices made inside the lift station.
- junction boxes and control panels must be in watertight enclosures.
- audible high water alarm on a separate electrical circuit, set to activate within six inches of intended pump "on" level.
- simplex systems should minimally include disconnect switches for pump and alarm in junction box or control panel, "murphy" type system is recommended.

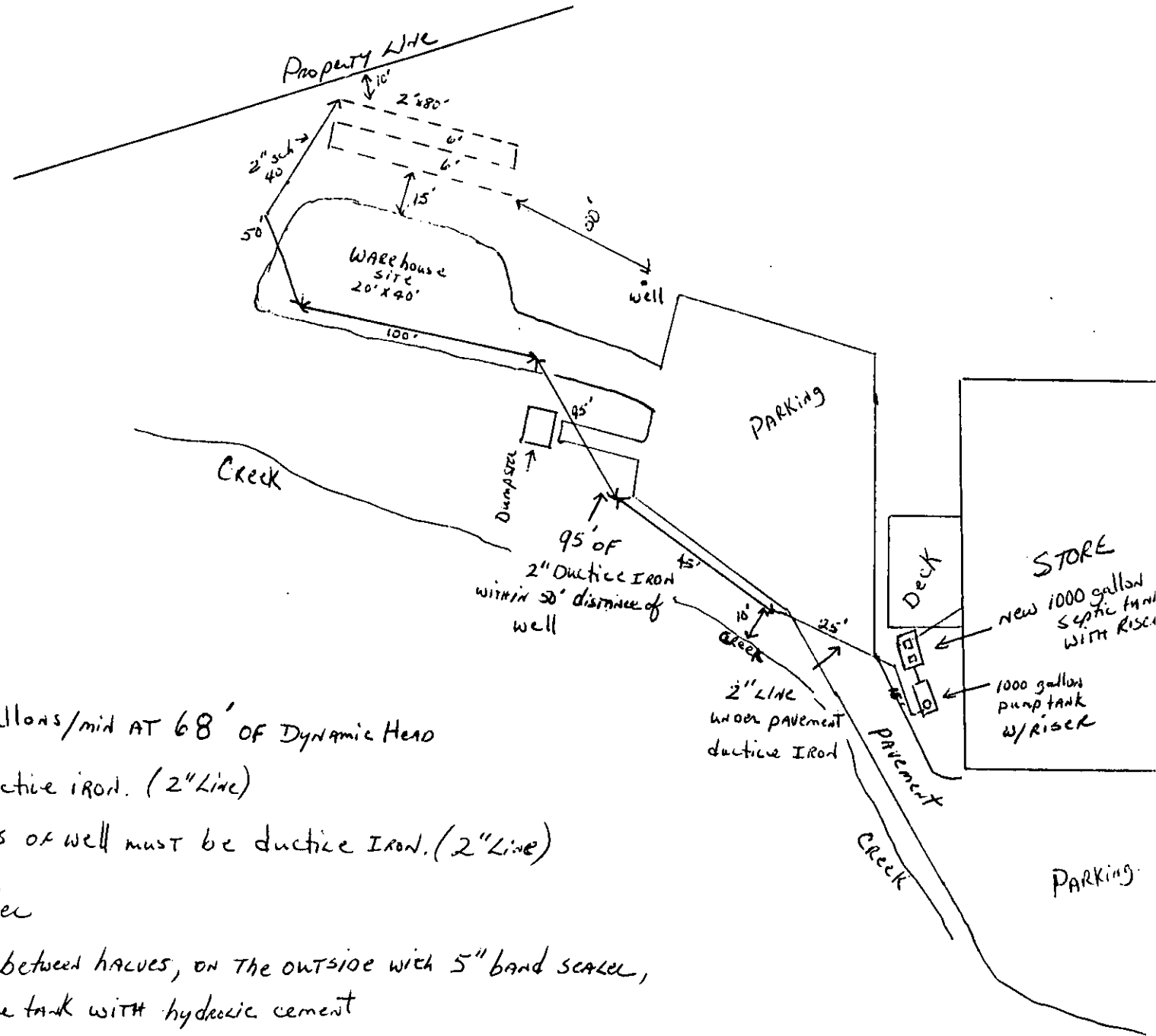
Tanks - all tanks should under go 24-hour leakage test prior to backfilling (areas of high water table).

septic tank size 1000 gals. ← SEAL BETWEEN HALVES AND 5" BAND SEALER ON OUTSIDE AND SEAL INSIDE WITH HYDRAULIC CEMENT.

pump tank size 1000 gals. ← ONE PIECE TANK

SEAL BETWEEN RISERS AND TANKS

Bishop's Creek TOWN + Country STORE 4-10-95 NOT TO SCALE



- ① pump to deliver 20 gallons/min AT 68' OF Dynamic Head
- ② Lines under pavement & ductile iron. (2" Line)
- ③ Line inside 50' RADIUS OF well must be ductile IRON. (2" Line)
- ④ 1 piece pump tank w/ riser
- ⑤ New septic tank sealed between halves, on the OUTSIDE with 5" band seal, and on the inside of the tank with hydraulic cement
- ⑥ Seal Riser TO TANKS

ELECTRICAL CONTROL CONFIGURATIONS FOR ON-SITE SEWAGE SYSTEMS

1. Piggyback Switch System

- a. Single-outlet motor-rated receptacle shall be used, mounted inside a NEMA 4X (watertight and corrosion resistant) enclosure or equivalent.
- b. Enclosure shall be securely mounted adjacent to the pump tank at least 12 inches above finished grade. The enclosure door shall be easy to open without special tools by the system user and maintenance personnel, such as with thumb screws or quick release latches.
- c. Wires from the pump and control floats shall be conveyed from the manhole riser to the enclosure through sealed electrical conduit such as with a 2-inch sweep elbow fitting. The original plug caps shall be used to connect the pump and piggyback control float wires to the receptacle, with no splices made in the wire cables. Both ends of the conduit (where leaving the riser and entering the enclosure) shall be rendered watertight and gastight with duct-seal or equivalent pliable sealant.
- d. The High Water Alarm:
 - i. Shall be supplied by an electrical circuit from the facility electrical panel separate from the circuit supplying power to the pump.
 - ii. Shall be audible and visible by system users
 - iii. Shall be securely mounted adjacent to the pump tank, on the side of the facility in view of the pump tank, or inside the finished occupied space of the facility. If mounted outside, the alarm shall meet NEMA 4X standards, or equivalent.
 - iv. If the alarm panel is not located directly adjacent to the pump tank, a junction box rated NEMA 4X, or equivalent, shall be securely mounted adjacent to the pump tank at least 12 inches above finished grade, containing a disconnection means for the alarm float. This may be the same enclosure as the piggyback switch, or an adjacent enclosure. A wire nut connection or covered terminal block is acceptable as the disconnection means for a low-voltage alarm circuit (24 volts or less). The alarm float rating must be compatible with the power circuit provided.
- e. The piggyback switch system should not be used when the pump power rating exceeds one horsepower or when the voltage desired exceeds 120 volts.

2. Simplex Control Panel System

- a. This system generally consists of the pump controller and high water alarm in a common enclosure. However, these functions can be provided separately. The pump controller shall consist of a means of manually operating the pump, such as a hand-off automatic (H-O-A) switch. Pump run light and alarm test switch should also be provided.
- b. The panel shall be listed by Underwriter's Laboratory or equivalent third party electrical testing and listing agency.
- c. The panel as designed and installed shall be rated NEMA 4X or equivalent and shall be securely mounted adjacent to the pump tank, or on the side of the facility readily visible from the tank. If not installed directly adjacent to the pump tank, a junction box rated NEMA 4X, or equivalent, shall be securely mounted adjacent to the pump tank at least 12 inches above finished grade.
- d. The panel shall be located above the 100-year storm elevation, unless designed and installed in accordance with NEMA 6P criteria, which provides for watertight conditions during periods of up to six feet of submersion.
- e. All power circuits to the panel must be provided with adjacent, external disconnects, such as are commonly required for outdoor heating and air conditioning units, unless the following conditions are met:
 - i. The enclosure door shall be easy to open without special tools by the system user and maintenance personnel, such as with thumb screws or quick release latches.
 - ii. Internal panel components are behind a dead front (inner door) with main disconnect(s) clearly labeled and accessible through the inner door.
 - iii. Panel is confirmed to be in accordance with the National Electrical Code disconnect requirements by the local electrical inspector. It is our understanding that such panels are now available from major control equipment manufacturers.
- f. The high water alarm shall be supplied ahead of any pump overload and short circuit protective devices. Generally, an independent circuit shall be provided from the facility electrical panel separate from the circuit supplying power to the pump.

However, if the pump overload and short circuit protection device is provided in the control panel, the alarm circuit can be supplied by the same power supply ahead of the pump protection device, provided it is properly protected by a separate breaker or fuse. The amperage rating of the circuit breaker serving the system in the facility electrical panel must be adequate for both the pump and alarm circuits and the acceptability of all components must be specifically confirmed by the local electrical inspector.

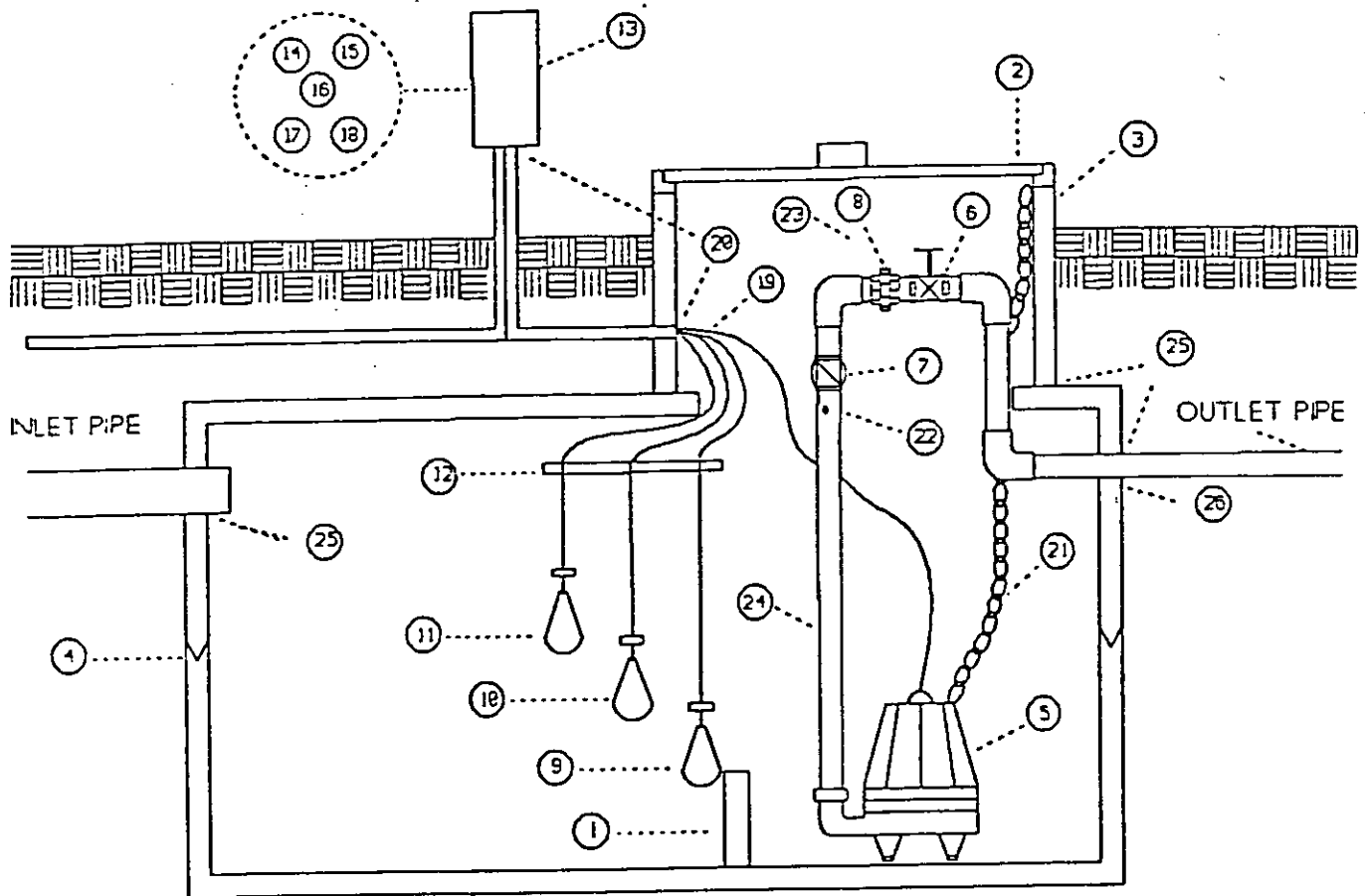
- g. Wires from the pump and control floats shall be conveyed from the manhole riser to the panel or junction box through sealed electrical conduit, with no splices made in the wire cables. Both ends of the conduit (where leaving the riser and entering the panel or junction box) shall be rendered watertight and gastight with duct-seal or equivalent pliable sealant.
- h. Panels serving pumps with voltage exceeding 120 volts should include disconnects which break all ungrounded conductors.

3. Duplex and Multiplex Control Panels:

These must meet the same requirements as simplex panels and all the additional requirements of .1952(c) (6), including short circuit protection for each pump and the control system, automatic pump sequencer, hand-on-automatic (H-O-A) switches, run lights and elapsed time counters for each pump.

SB/dh

1/15/91



IMPORTANT FEATURES OF PUMP TANK

CONSTRUCTION

1. Baffle wall modified (if present)
2. Access opening (min. 24 inches) with removable lid
3. Manhole riser (min. 6 inches above ground)
4. 1-inch dia. sealant (min.) & additional waterproofing
5. Pump (U.L. listed or equivalent)

FITTINGS

6. Gate valve
7. Check valve
8. Union or disconnect

LEVEL CONTROL FLOATS

(Sealed mercury type, or equivalent)

9. Pump-off (min. 12 inches above bottom)
10. Pump-on (set for required dose)
11. High water alarm (max. 6 inches above pump-on)
12. Reachable float bracket (corrosion resistant material)

ELECTRICAL

13. Enclosure/control box (NEMA 4X)
14. Alarm on separate circuit (Audible and visible)
15. Pump run light
16. H-O-A switch
17. Elapsed time meter
18. Disconnect at tank site
19. No internal splices
20. Electrical conduit sealant

OTHER

21. Pump lift chain or rope (corrosion resistant)
22. Anti-siphon hole (3/16 inch diameter)
23. Easy access to internal fittings
24. Discharge pipe (Schedule 40)
25. Water-tight connections
26. Serial No. and date

APPALACHIAN DISTRICT HEALTH DEPARTMENT
Environmental Health Section

Boone 704-264-4995

Jefferson 919-246-9023

Sparta 919-372-8813

APPLICATION FOR SITE EVALUATION/IMPROVEMENTS PERMIT

Date _____

OWNER/AGENT Bishops Creek T-C Emporium COUNTY Watauga PHONE 704-262-9999

PRESENT ADDRESS Rt 1 Box 312 Hwy 321 Snowing Rock, NC 28605

LOCATION OF PROPERTY as above

SUBDIVISION NAME _____ LOT NO. _____ SECTION NO. _____

LOT SIZE 1.27 Acres TAX MAP REF. # (13 digits) 2819-82-1844-000

APPLICATION FOR: Residential _____ No. of Bedrooms _____ No. of Bathrooms 2

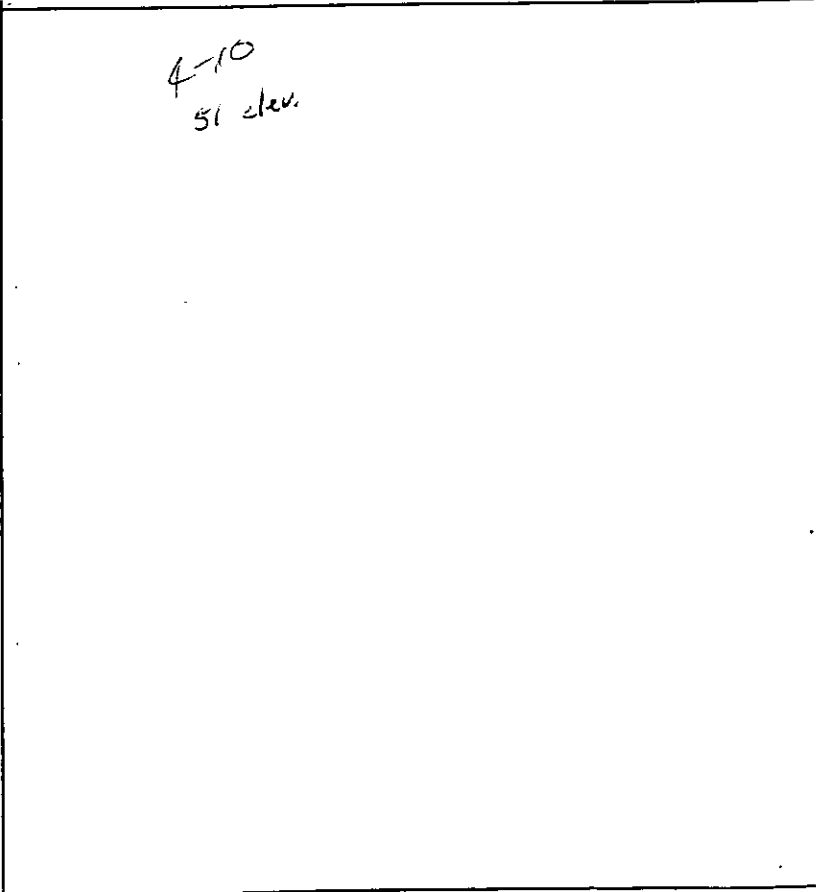
Basement _____ Plumbing Fixtures in Basement _____

Business _____ Type _____ No. people employed _____

Other Manage Describe _____

Special Fixtures: (Jacuzzi, hottub, pools, etc.) _____

- Show location of property corners.
- Show location of building.
- Show location of well/water lines.
- Show location of driveway.
- Show any surface water (springs, streams, rivers, ponds, etc.)
- Show adjacent/neighborhood wells/springs.
- Show any subsurface drainage on property.

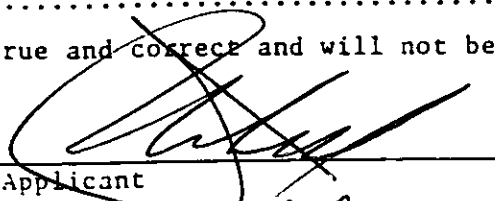


FEE SCHEDULE:

Single Family Res. & Commercial systems up to 480 GPD.....	70.00
Single Family Res/Apartments and commercial systems 481-1000 GPD	110.00
1001-1500 GPD	150.00
1501-3000 GPD	300.00
3001-6000 GPD	500.00
6001-10,000 GPD	500.00
+ \$25.00 per each 1000 additional gallons	

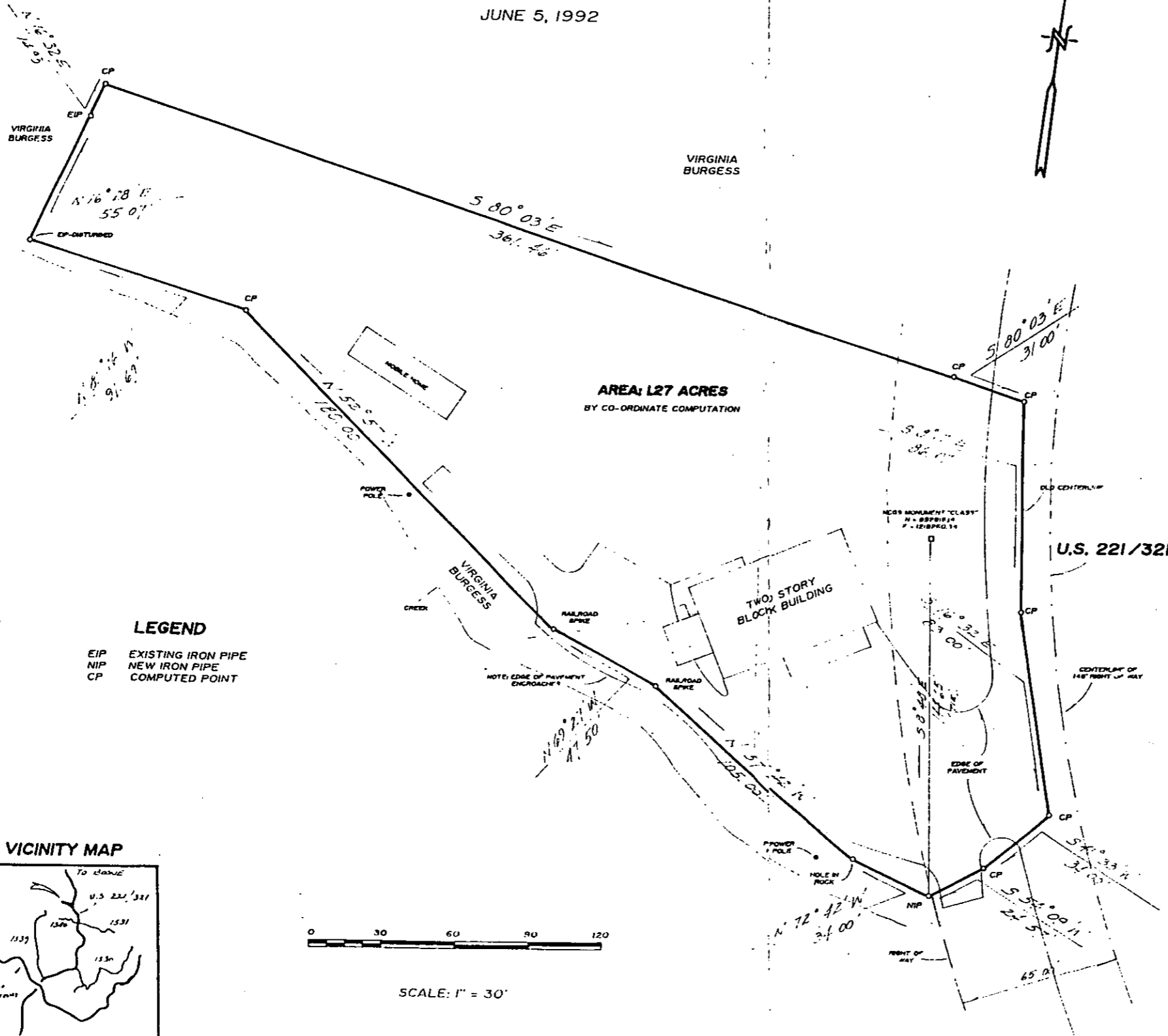
A copy of the plat of the property must be provided by the applicant and attached to this application. ALL PROPERTY CORNERS must be clearly and correctly identified. House must be staked. Recommended that owner (buyer or seller) accompany Health Dept. representative to property.

I certify that the information on this application is true and correct and will not be altered without prior Health Department approval.


Applicant
Joseph P. Campbell

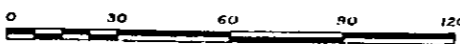
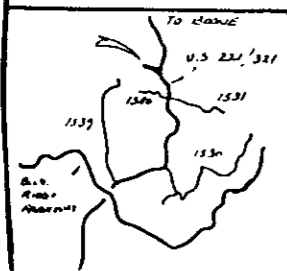
BLOWING ROCK TOWNSHIP
WATAUGA COUNTY
NORTH CAROLINA

JUNE 5, 1992



LEGEND
EIP EXISTING IRON PIPE
NIP NEW IRON PIPE
CP COMPUTED POINT

VICINITY MAP



SCALE: 1" = 30'

2. THE SOURCE DEED IS BOOK OF RECORDS 3-PAGE 29 OF THE WATAUGA COUNTY PUBLIC REGISTRY, THE SOURCE PLAT IS SURVEY 86035 BY DAVID K. STERN, R.L.S.
 3. REFERENCE DOCUMENTS ARE DEED BOOK 167-PAGE 765; DEED BOOK 169-PAGE 864; AND DEED BOOK 80-PAGE 127.
 4. THIS PLAT REFLECTS A RETRACEMENT OF THE STERN SURVEY AND IS SUBJECT TO THE STERN SURVEY.
 5. THE SUBJECT PROPERTY APPEARS TO LIE IN FLOOD ZONE "C" AT THE MARGIN OF ZONE "A" AS PER FLOOD INSURANCE RATE MAP COMMUNITY PANEL 370251 0175B. (ZONE C = MINIMAL FLOODING; ZONE A = 100 YEAR FLOOD PLAIN WITH BASE FLOOD ELEVATIONS AND FLOOD HAZARD FACTORS NOT DETERMINED)
 6. THIS PLAT REFLECTS MONUMENTATION FOUND ON THE GROUND AND INFORMATION CONTAINED IN THE SOURCE AND REFERENCE DOCUMENTS. IT WAS DONE WITHOUT THE BENEFIT OF A TITLE SEARCH BY AN ATTORNEY AND IS SUBJECT TO ANY FURTHER INFORMATION DISCLOSED.
- I, O. WAYNE GREEN, R.L.S. 1-2885, CERTIFY THIS PLAT REFLECTS A SURVEY OF AN EXISTING PARCEL OR PARCELS OF LAND BEING IN THE JURISDICTION OF WATAUGA COUNTY PLANNING BOARD.

O. Wayne Green L-2885

I, O. WAYNE GREEN, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; THAT THE DEED DESCRIPTION IS RECORDED IN BOOK _____ PAGE _____ OR OTHER SEE NOTE 2 THAT THE RATIO OF PRECISION AS CALCULATED BY LATITUDES AND DEPARTURES EXCEEDS 1:10000; THAT THE BOUNDARIES NOT SURVEYED ARE SHOWN AS BROKEN LINES PLOTTED FROM INFORMATION FOUND IN the source and reference documents; THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH G.S. 47-30 AS AMENDED, WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 5 DAY OF June, A.D. 1992.

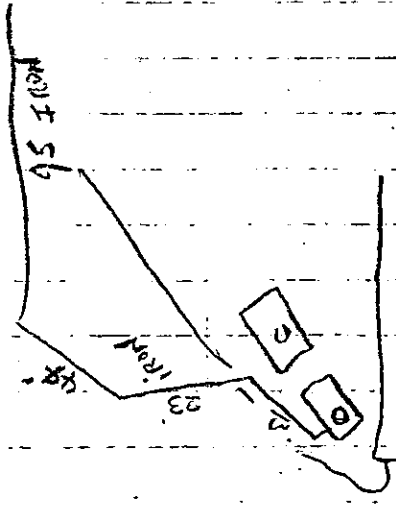
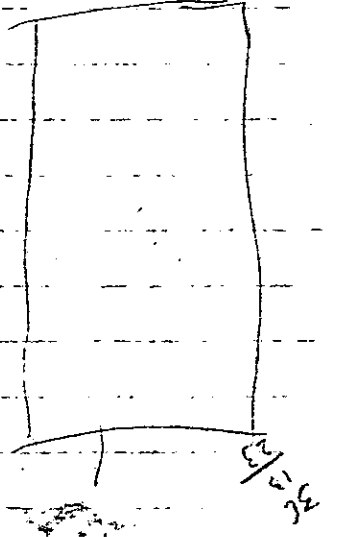
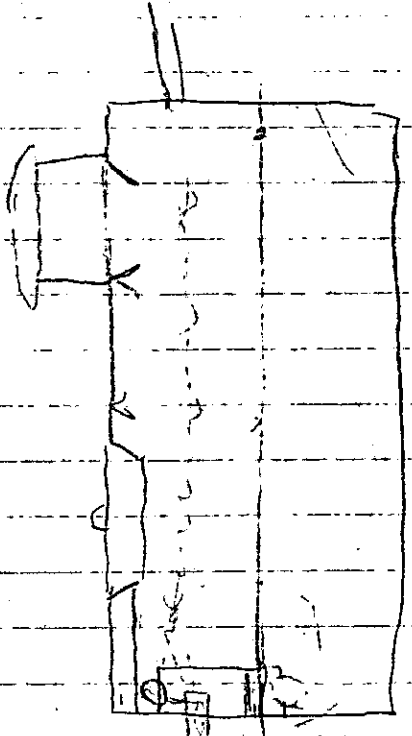
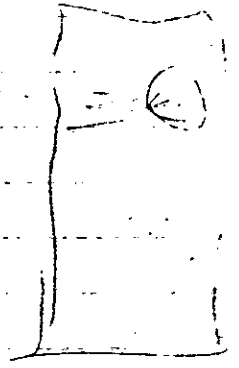
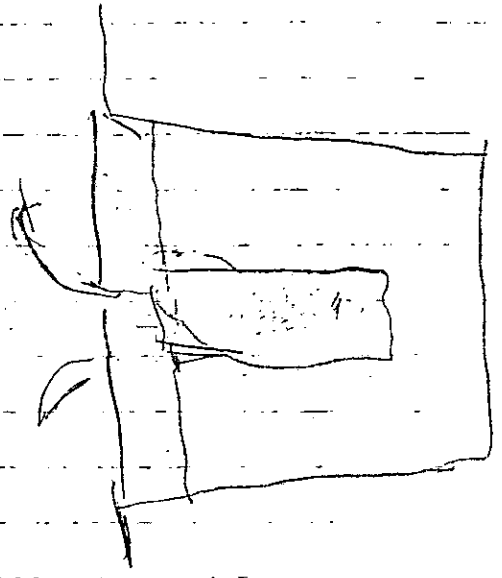
O. Wayne Green
REGISTERED LAND SURVEYOR FOR SEAL
L-2885
REGISTRATION NUMBER, O. WAYNE GREEN

NORTH CAROLINA, WATAUGA COUNTY
I, A NOTARY PUBLIC OF THE COUNTY AND STATE AFORESAID, CERTIFY THAT O. WAYNE GREEN, A REGISTERED LAND SURVEYOR, PERSONALLY APPEARED BEFORE ME THIS DAY AND ACKNOWLEDGED THE EXECUTION OF THE FOREGOING INSTRUMENT. WITNESS MY HAND AND OFFICIAL STAMP OR SEAL, THIS 5th DAY OF June, 1992.

Candace F. Winebarger
NOTARY PUBLIC
OFFICIAL SEAL
North Carolina - Watauga County
CANDACE F. WINEBARGER
NOTARY PUBLIC
My Commission Expires December 25, 1994

O. WAYNE GREEN AND ASSOCIATES
SURVEYING P.A.
PO BOX 533
BLOWING ROCK, NORTH CAROLINA
704/295-9445

2002
2000



56

23

2

2

71
36
21

36

2 5 2 5 1/2
240

73
1/2
225

160'

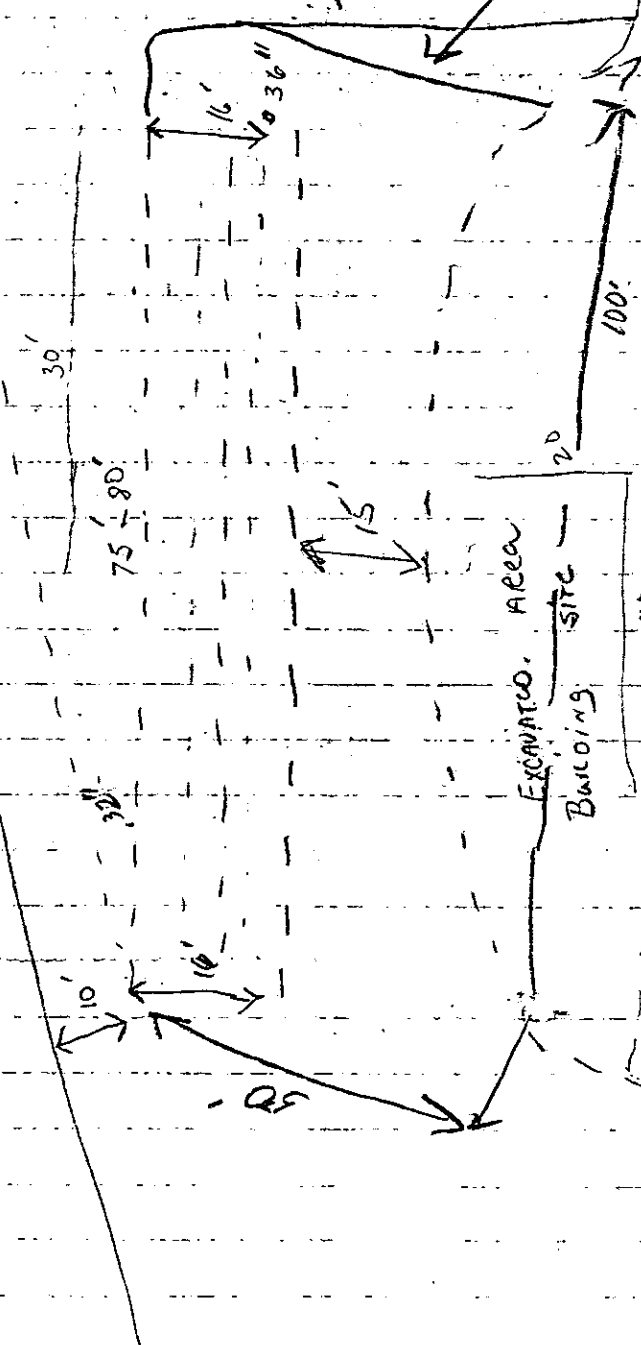
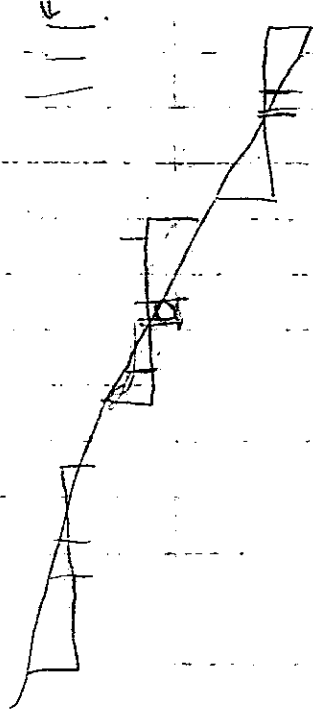
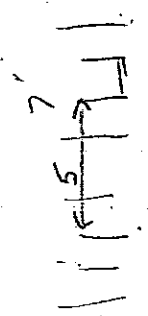
18'
2
2
2
2

50
225

160

65

5' elev.



EXCAVATED AREA
BUILDING SITE

well

dam

dam

creek