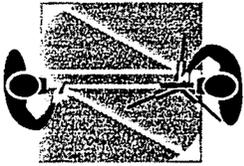


DRAINAGE STUDY

BAY PARK

Topsham, Maine



January 10, 1991

134

Mr. Larry Cilley
Acting Town Administrator
Town of Topsham
22 Elm Street
Topsham, ME 04086

RE: Bay Park Drainage Study

Dear Larry:

The Topsham Board of Selectmen requested Sitelines Inc. to continue the analysis of the drainage problems in the lower Eider Lane area in an effort to identify possible solutions. Our first analysis of the problem resulted in the identification of several issues including the lack of as-built plans for the drainage system, homes built without foundation drains, maintenance concerns, and a high seasonal water table. The continuation of our analysis had several goals:

1. Preparation of an as-built base plan and field survey of the development utilizing the recorded subdivision plan. The plan will include basement elevations of the homes on Eider Lane, south of Teal Road and Hunter Lane between Lover's Lane and the pipe outfall at 13 Hunter Lane.
2. Using the field survey information, an assessment of three alternatives:
 - A. Installation of perimeter drains and sump pumps connected to the existing storm drain system;
 - B. Installation of an underdrain along Lover's Lane;
 - C. Consideration of alternate outlet points and enhancements to the existing system.

Our survey crew began collecting field data during the third week of November. The topographic elevation information is based upon a USGS datum, a benchmark, MDOT L30, along the MCRR tracks near Tedford Road. All the data for the storm drain, catch basins and house basement elevations are referenced to this USGS datum.

In the process of entering the existing plan survey data into a computerized data base, we discovered problems with the subdivision plan as approved by the Town. A brief description of the problem is that the street network and ultimately the lots portrayed on the plan are not mathematically or geometrically correct. We were unsuccessful in making contact with the surveyor, Glen Foye. After countless attempts to identify the error made by the surveyor, we discontinued our search for a resolution. For some reason, the original plans are missing critical bearings and distances on key property lines, others have two different bearings indicated, and several street intersection

SITELINES INC.

ENGINEERS ▪ SURVEYORS ▪ Suite 202 ▪ Fort Andross, 14 Maine St. ▪ Brunswick, ME 04011 ▪ 207-725-1200 ▪ FAX 725-1114

curve radii appear incorrect. The net result is that while we have very precise field data on topography and the location of the catch basins and storm drains, we cannot accurately relate that information to property lines for each lot without a significant effort by our surveyor, which could entail a resurvey of significant portions of the subdivision.

In addition to our field surveys, we prepared and distributed a data request form to residents to establish interior wall heights and to solicit comments. Together this information assisted in our analysis.

In the absence of accurate subdivision plans, we have developed a plan that portrays lots along Eider Lane, Goldeneye Drive and Hunter Lane in locations relatively close to the drainage system. Our field survey reveals that all of the homes in the study area have basement elevations above the invert elevation of the adjacent storm drain (see plan). However, the range of elevations vary from 7+ feet to approximately $\frac{1}{2}$ foot above the drainage pipe flow line.

Based on our interpretation of this field data, it appears that the homes reporting wet basements all have basement elevations less than 5 feet above the underdrain.

We believe a combination of factors may have led to the recent occurrences of wet basements, including: 1) possibly a higher than average rainfall during the past two years and, therefore, increased water saturation of the soils; 2) a reduction in the discharge capacity of the underdrain caused by sedimentation; and 3) increased rainfall recharge into the aquifer created by tree harvesting on the abutting Hunter property.

Upon review of the field data, we conclude three possible courses of corrective action:

1. Connection to Existing Storm Drain

Almost all of the homes in the study area have basement elevations sufficiently higher than the storm drain to allow for a gravity flow underdrain connection to the Town's storm drain. The minimum slope of the connector should be 0.005 FT/FT, which would require a minimum difference in basement to pipe invert elevation of 2.7 to 3.0 feet. The minimum separation distances include an 8" footing and a 4" basement slab. We have prepared a sketch plan of a possible house to street connection for illustrative purposes.

Our recommendation would be that a 6 inch SDR 35 perforated PVC pipe be connected to the existing 8 inch and 12 inch storm drain by a "T" coupling. The 6 inch pipe should be laid in a trench walled in a filter fabric and surrounded by 3/4 inch stone to a height of 6 inches above the pipe. The 6 inch pipe should be extended beyond the pavement on the northeast side of Eider Lane (approximately 26 feet) to a PVC wye fitting of 4"x4"x6" and stubbed. If installed at the property line, the wye would provide an outlet for the two adjacent properties. A 4 inch underdrain connector to the wye from the house foundation drain with a backflow preventer valve could be installed at the same time or in the future.

For homes without perimeter foundation drains, we would recommend that a perimeter drain be laid on the outside of the foundation below the elevation of the foundation footing. A sump hole should be constructed on the interior of the foundation and the perimeter foundation drain inlet should be laid beneath the footing into the sump. The backflow preventer valve installed in the sump should protect against a back-up in the street underdrain flooding a basement, and also allow for access to the valve for maintenance purposes.

If a homeowner seeks additional protection, a sump pump with an at grade level discharge could be installed. (The pump discharge could also be connected to the outlet pipe after the backflow valve if desired.) Either method would allow for maintaining a dry basement in the event that the backflow preventer valve closes.

We have estimated relative costs in two parts. First, the costs for the installation of the connection within the street right-of-way, including repaving the street where necessary. Hubbard Construction estimated a typical cost of \$200 - \$1,000 depending on the specifics on the street connection and trenching across the paved street. Second, Hubbard also provided us with an estimate of \$2,000 for a typical house installation, including the connection to the wye. There would be an economy to provide these connections on a group basis.

2. Lover's Lane Storm Drain

The installation of a storm/underdrain along Lover's Lane would act to intercept the groundwater flow to the southwest from the Hunter property. A drain pipe laid at a minimum slope of 0.005 ft/ft would necessitate at least a 17 foot elevation differential over a 3,500 foot run (Hunter Lane north to the pond outlet on Lover's Lane near the existing drain outlet).

To adequately drain the last house on Hunter Lane (13 Hunter Lane) would require a differential of about 22 feet where only a 9 foot differential exists.

An indication of the flat nature of the site is seen by looking at the basement elevation at 13 Hunter Lane, only about 2.5 feet higher than the pond outlet on Lover's Lane nearly a mile away.

The nearest course for a positive drain outlet is to lay a pipe south along Lover's Lane across Foreside Road towards the Androscoggin River. A pipe beginning at the intersection of Teal Road at Lover's Lane would extend a distance of about 3,800 feet to an elevation of 40± feet for discharge. The pipe depth would vary in depth from 5 feet to over 25 feet before crossing Foreside Road. The pipe would be a depth sufficient to serve a portion of Hunter Lane and Goldeneye Drive.

An average estimated cost for the pipe installation would be \$50/LF based on "Means Site Work Cost Data, 1991," or costing in the neighborhood of \$200,000. This option is based upon a design to service the homes from 22 Eider Lane south, a total of 12 houses.

3. Alternate Outlet Points

Two other possibilities exist for creating an outlet point for a storm drain/underdrain discharge. The first is a manmade pond that has been created behind the Town dump recently as part of a borrow pit. The pond appears to be only 1100 feet from Lover's Lane Road and could serve as an outlet point requiring a total pipe installation of about 2500 linear feet. The pond, however, would need to be at least 16 feet lower than the deepest foundation along Lover's Lane or an elevation of 44 ft/M.S.L. A survey would be necessary to evaluate this option, but based upon a visual inspection of the borrow pit, it may technically be possible. However, note that access to the pond would require purchase of an easement across two privately owned parcels.

The second possibility is to install an underdrain eastward to a ravine past Home Place. While the ravine has the appropriate depth, it is 3,400± linear feet from Lover's Lane. Total pipe installation would be approximately 5,000 linear feet with this option.

Both of these alternatives require an easement across private properties and underdrain lines to be buried to extreme depths. Construction would involve wide, deep trenches in soft wet sands,...a difficult operation. Cost estimates would exceed \$50/LF for initial evaluation and comparison purposes.

System Enhancement

After reviewing the survey data and inspecting the operation of the drainage system during several recent storms, we offer the following recommendations to enhance the operation of the system and provide relief in the event of a recurrence of a system blockage:

1. Clean out debris in the stream below the Hunter Lane outlet for a distance of 50-100 feet. Fallen tree limbs and leaves impede the flow of water downstream of the outlet.
2. Install additional 8 inch perforated drain pipe with appropriately spaced manholes on Eider Lane between 26 and 30 Eider to provide a connection between existing drains. In the event of a blockage, given the relatively flat slope of the site, the stormwater would back up to a point causing a reverse flow, taking a path of least resistance. A similar connection may be made on Goldeneye Drive, and the drywell at the intersection of Hunter and Lover's Lane should be connected to the CB #H-3.
3. In addition to interconnecting the storm drain system, the maintenance measures recommended previously should be carried out. An effort to minimize future siltation of the storm drain system could be accomplished by providing for a grass shoulder and drainage swale within 15-20 feet of every catchbasin. The grass will act as a natural filter and should be a salt and drought tolerant variety.

Conclusions

Based upon our investigations, we have determined that the storm drain/underdrain system has been installed at a less than optimum slope and is less than the 0.0025 ft/ft slope indicated on one of the subdivision plans. It was also found that some drain flows are different than portrayed on any of the subdivision plans or plans provided by the Town. At least one catchbasin has an outlet pipe higher than the inlet pipes. The recorded subdivision plan does not accurately portray the development in bearings and distances and thereby questions the actual layout of the Town's right-of-way and house lots. In one instance it appears that a catchbasin (G-6) may be on private property without a drainage easement to the Town.

The field survey revealed that all the houses in the study area have basement elevations higher than the elevation of the storm drain in the street. Those homes indicating wet basement problems have less than a five foot difference in basement to storm drain invert

January 10, 1991

Page Six

elevations. The homes having a 5+ foot difference in elevation appear not to have reported wet basements, suggesting that the influence of the underdrain is limited to 4-5 feet. Most of the homes (52) in the study area could be connected to the existing storm drain by a gravity system. An estimate of costs for the street portion would be \$15,000 - \$20,000 if a connection is provided for every house (\$5,000 for only the nine homes identified). The homeowner cost would average \$2,000 to install a perimeter foundation drain connected to the street. A better estimate can only be determined by further study of actual homes. An alternative recommendation is to install a new storm drain along Lover's Lane to the Androscoggin River, but at an estimated cost of over \$200,000.

It is reasonable to conclude that the most cost effective solution is for a combined public/private effort to install drains around homes without them and to provide connections to the existing storm drain. The Town may take additional steps to interconnect the system to provide relief in case of a recurrence of the system blockage, and institute a program of active maintenance.

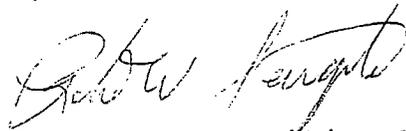
If the Town elects to proceed to the next step, the accuracy of basement elevation data should be confirmed before final design engineering and bid documents are prepared. Coordinating the installation of perimeter foundations to groups of homes by one or two contractors could reduce the per house cost to the homeowners.

In conclusion, it appears that improvements to the storm drainage system will be costly following any of the alternatives. It is also our opinion that some homes will continue to experience wet basements until the groundwater table can be lowered around the foundations by gravity or artificial means. We look forward to discussing this report with you and the Board of Selectmen at your convenience.

Very truly yours,



Charles R. Wiercinski, P.E.
President



Robert W. Georgitis, A.I.C.P.
Land Use Consultant

Enclosures

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Suite 202 • Fort Andross, 14 Maine St. • Brunswick, ME 04011
207-725-1200 • FAX 725-1114

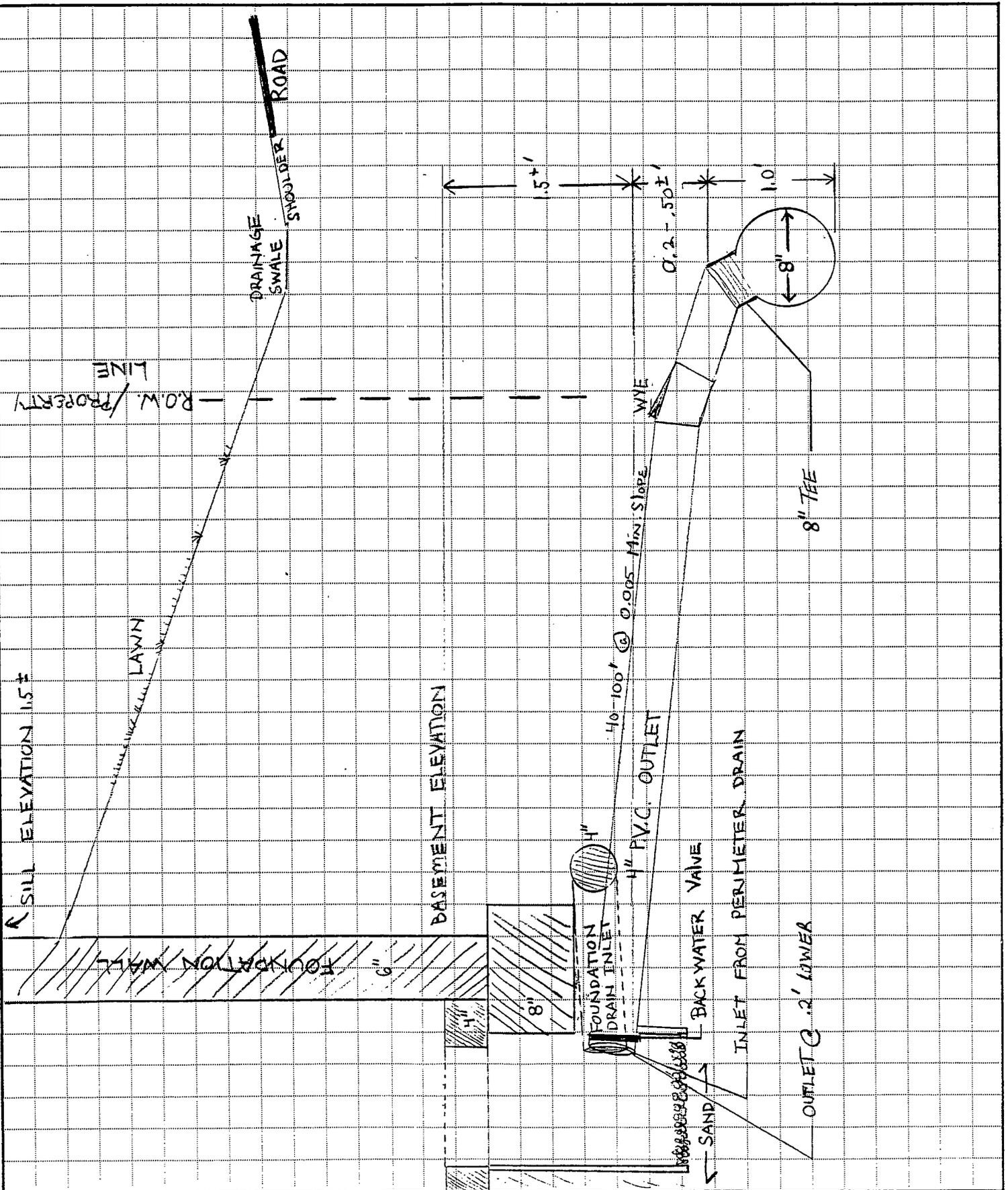
JOB BAY PARK DRAINAGE STUDY

SHEET NO. 1 OF 1

CALCULATED BY RWG DATE 12/28/90

CHECKED BY CRW DATE 1/4/90

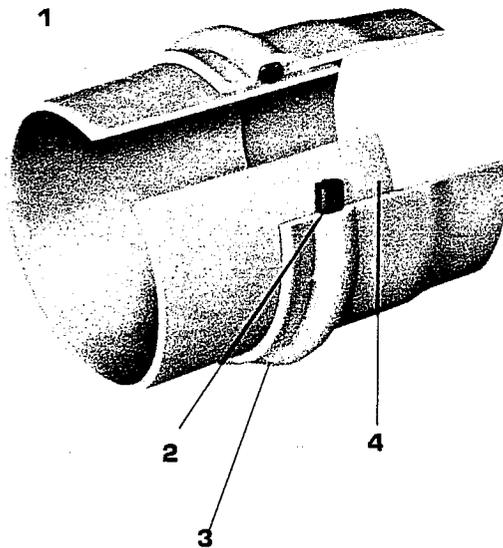
SCALE NOT TO SCALE



Pipe A-12

PVC Sewer Pipe SDR 35

Solid Wall and Perforated



- 1** Gasket joint meets exacting tightness requirements, simplifies assembly.
- 2** Locked-in rubber sealing gasket provides tight, flexible seal. Meets requirements of ASTM D-3212 — "Joints for Drain and Sewer Pipes using flexible elastomeric seals."
- 3** The bell is an integral part of the pipe section having the same strength.
- 4** Spigot pipe ends are supplied from factory with bevels.

SHORT SPEC:

Pipe shall conform to ASTM D 3034 for SDR 35. PVC resin compound shall conform to ASTM D 1784 and rubber gaskets shall conform to ASTM D 3212 and F 477. Standard laying lengths shall be 13 ft.

The choice of contractors and municipalities, SDR-35, PVC Sewer Pipe offers the following advantages in both solid wall and perforated pipe:

- Chemical Resistance.
- Abrasion Resistance.
- High flow characteristics permit use of smaller diameter pipe and flatter grades for installation.
- Locked in gasket protects against loss and eliminates need for field installation.
- Flexible joint provides linear expansion and contraction.
- Furnished in 13 ft. laying lengths.
- No cementing of joints is required for installation.

SIZE	LENGTH	PRODUCT NUMBER	
		SOLID	PERFORATED
4	13'-0"	27010 1	27007 1
6	13'-0"	27020 2	27011 1
8	13'-0"	27030 1	27032 1
10	13'-0"	27040 2	27040 3
12	13'-0"	27050 1	27049 1
15	13'-0"	27053 1	
18	13'-0"	25605	
21	13'-0"	25650	
24	13'-0"	25700	
27	13'-0"	25755	

NOTE: Standard perforations for pipe diameters 4"-12" are 1/2" diameter holes, 5" on center, 2 rows and 120° apart.

NOTE: Installation guides are available upon request — ask your local EJP sales office for one.

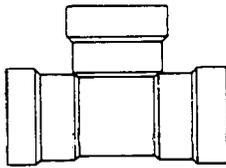
NOTE: See Section B for PVC SDR 35 fittings.



Pipe Fittings B-31

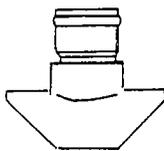
PVC Gravity Sewer Fittings 4" to 15"

PVC Tee (B×B×B)



SIZE	PRODUCT NUMBER	SIZE	PRODUCT NUMBER
4×4	27055	12×6	27370
6×4	27125	12×8	27367
6×6	27120	12×10	27366
8×4	27215	12×12	27365
8×6	27205	15×4	27447
8×8	27200	15×6	27444
10×4	27305	15×8	27445
10×6	27295	15×10	NS-06
10×8	27293	15×12	NS-06
10×10	27290	15×15	27439
12×4	27380		

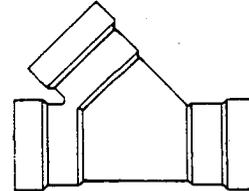
PVC Tee Saddle



SIZE	PRODUCT NUMBER	SIZE	PRODUCT NUMBER
6×4	27130	10×6	27300
8×4	27220	12×4	27385
8×6	27210	12×6	27375
10×4	27310		

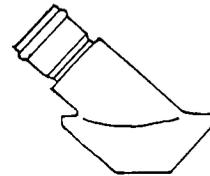
Gasketed skirt and branch includes two stainless steel straps.

PVC Wye (B×B×B)



SIZE	PRODUCT NUMBER	SIZE	PRODUCT NUMBER
4×4	27060	12×6	27395
6×4	27140	12×8	27393
6×6	27135	12×10	NS-06
8×4	27240	12×12	27390
8×6	27230	15×4	27442
8×8	27225	15×6	27443
10×4	27330	15×8	27446
10×6	27320	15×10	NS-06
10×8	27316	15×12	NS-06
10×10	27315	15×15	27448
12×4	27405		

PVC Wye Saddle



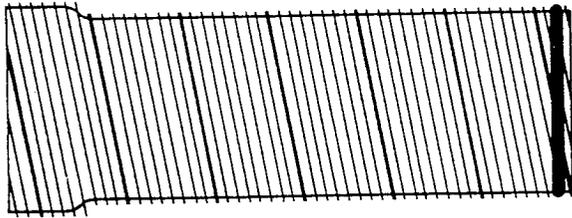
SIZE	PRODUCT NUMBER	SIZE	PRODUCT NUMBER
6×4	27145	10×6	27325
8×4	27245	12×4	27410
8×6	27235	12×6	27400
10×4	27335		

Gasketed skirt and branch includes two stainless steel straps.

Pipe Fittings B-39

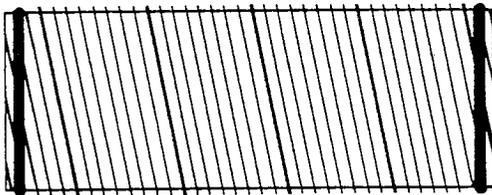
Perma-Loc[®] Gravity Sewer Fittings

Bell × Spigot Half and Quarter Lengths



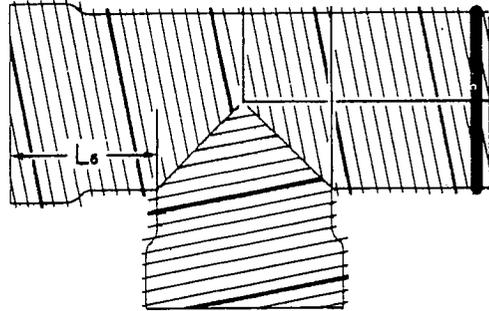
HALF LENGTHS	QUARTER LENGTHS
77"	39"

Spigot × Spigot Half and Quarter Lengths

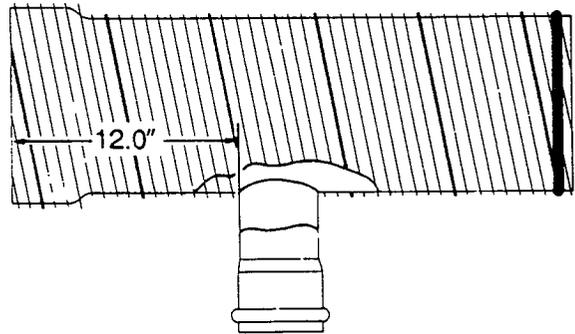


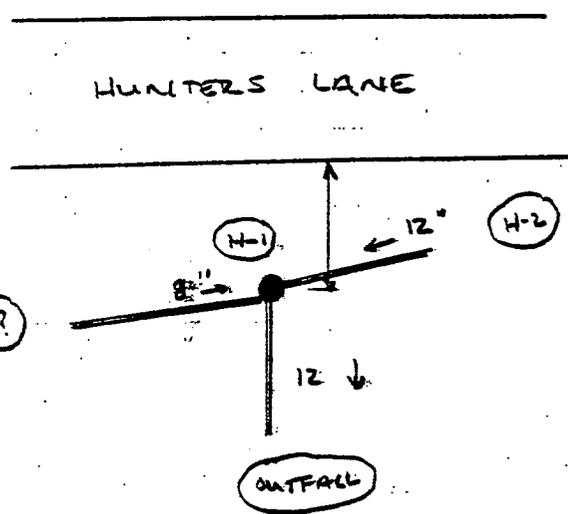
HALF LENGTHS	QUARTER LENGTHS
77"	37 1/4"

Tee



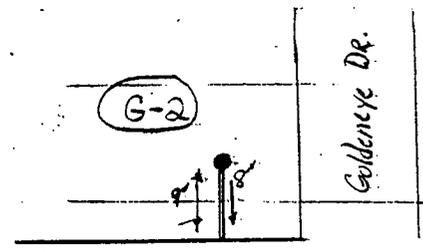
Reducing Tee





H-1 RIM 61.52

MH #	IN	IN	OUT	COMMENTS
H-1	8"A	12"A	12"A	SUMP CLEAN NO PROBLEMS
DOWN	57"	58"	57"	
FROM	?	H-2	OUTFALL	
	56.77	56.69	56.77	

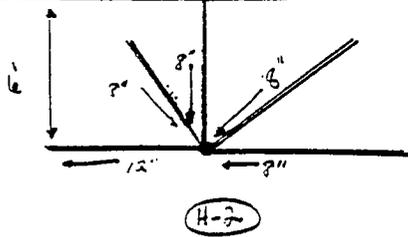


Hunters Lane

RIM	MH #	OUT	Comments
62.49	G-2	8"A	Sump clean no problems
Down	43"	58.91	
From	H-2		

Goldeneye Dr.

Hunters Lane



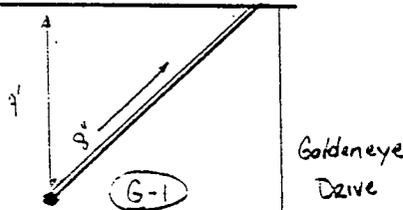
RIM 62.31

MH #	IN	IN	IN	IN	OUT
H-2	8"A	8'A	8'A	8'A	12"A
Down	59"	59"	49"	48"	62"
From	H-3	G-4	G-1	G-2	H-1
	57.39	57.39	58.23	58.31	57.14

Comments

Swamp clean
no problems

Hunters Lane



RIM 61.75

MH #	out
G-1	8'A
Down	41" 58.33
From	H-2

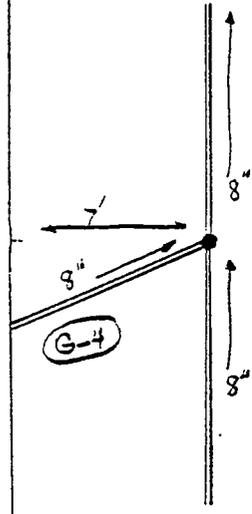
Goldeneye Drive

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS





Goldeneye Drive



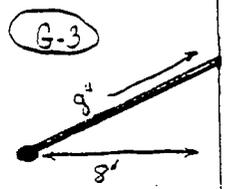
Rim 63.67

MH#	IN	IN	out	Comments
G-4	8"A	8"A	8"A	Sump clean no problem
Down	62"	61"	60"	
From	G-6	G-3	H-2	
	53.50	53.59	53.67	

Rim 64.05

MH#	out	Comments
G-3	8"A	Sump clean no problem
Down	42"	
From	G-4	60.55

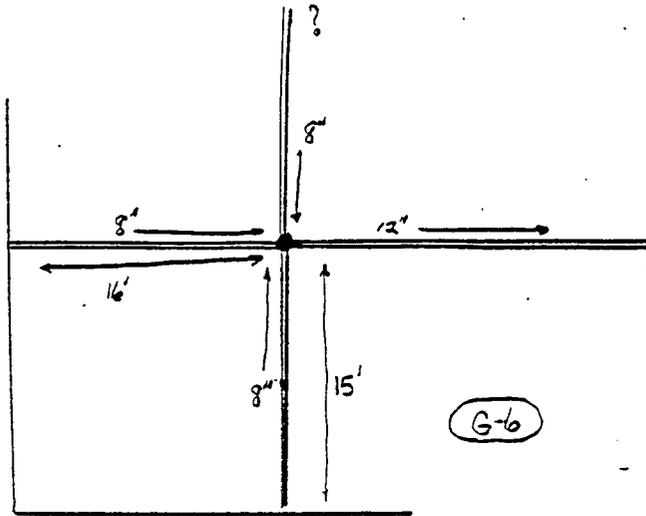
Goldeneye Drive



22-141 50 SHEETS
 22-142 100 SHEETS
 22-144 200 SHEETS

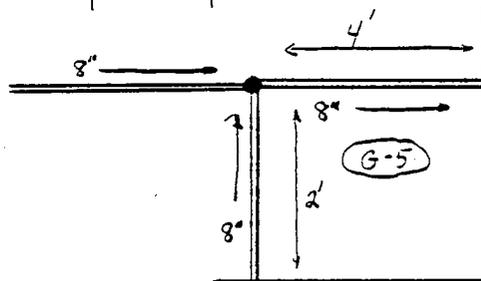


Goldeneye Dr.



Rim 62.62

<u>Comments</u>	<u>MH#</u>	<u>in</u>	<u>in</u>	<u>in</u>	<u>out</u>
Sump clean 8" pipe cracked from G-5.	G-6	8"A	8"A	8"A	12" A
	Down	48"	48"	47"	48"
	From	G-5 58.62	G-8 58.62	G-4 ? 58.70	? 58.62

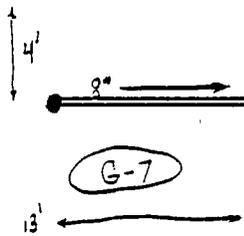
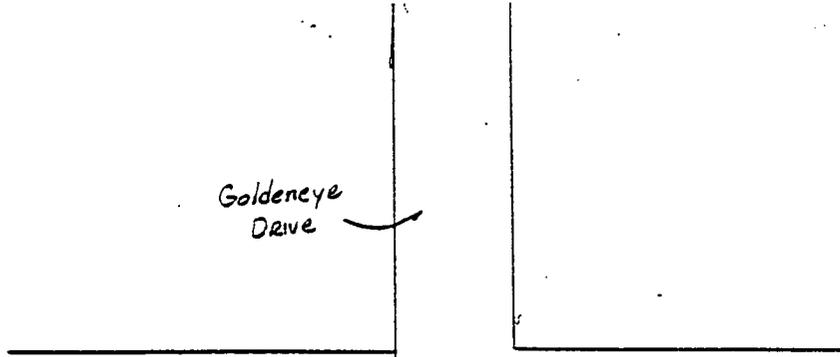


Goldeneye Dr.

Rim 63.22

<u>MH#</u>	<u>in</u>	<u>in</u>	<u>out</u>	<u>Comments</u>
G-5	3"A	8"A	8"A	Sump clean no problems
Down	48"	48"	49"	
From	G-7 59.22	E-5 59.22	G-6 59.14	

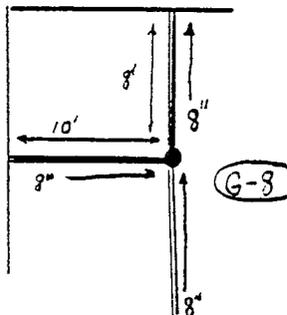
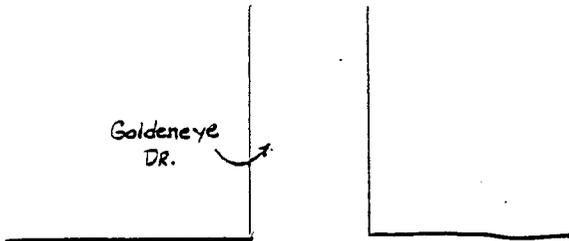
Goldeneye Drive



Rim 63.08

MH#	in	out
G-7	8"A	
Down	39"	59.33
From	G-8	

Goldeneye DR.



Rim 63.13

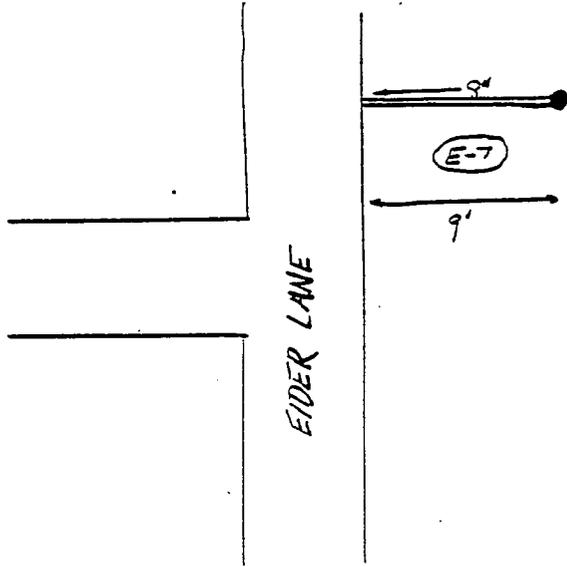
MH#	IN	IN	out
G-8	8"A	8"A	8"A
Down	45"	57"	58"
From	G-7	?	G-6
	59.43	59.43	59.35

50 SHEETS
100 SHEETS
200 SHEETS

22-141
22-142
22-144

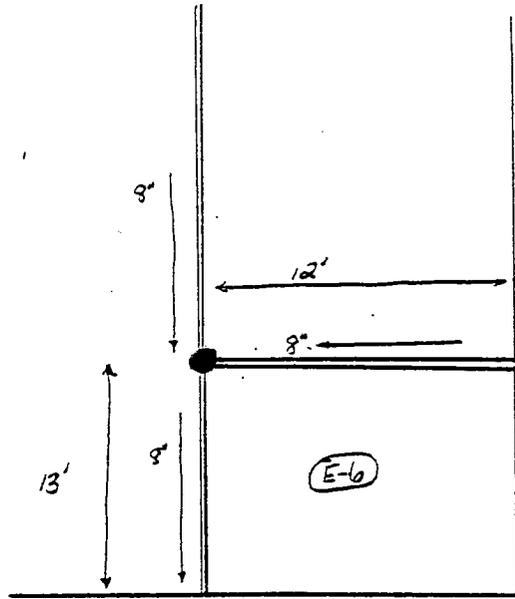


22-141 50 SHEETS
 22-142 100 SHEETS
 22-144 200 SHEETS



RIM - 64.02

<u>IN#</u>	<u>out</u>	<u>Comments</u>
E-7	8" A	Sump clean no problems
Down	36"	61.02
From	E-6	



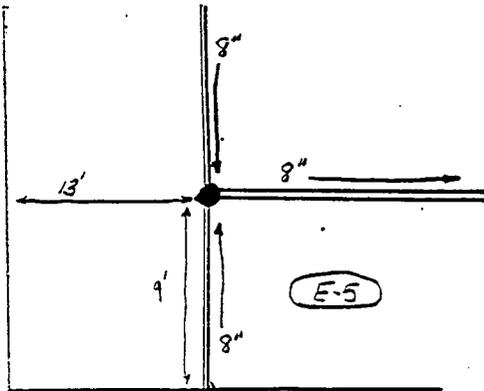
EIDER LANE

RIM 63.97

<u>IN#</u>	<u>IN</u>	<u>IN</u>	<u>out</u>	<u>Comments</u>
E-6	8" A	8" A	8" A	8" out pipe is filled 1/2 way with mud and sand.
Down	45"	45"	42"	
From	E-7	?	E-5	
	60.32	60.22	60.47	



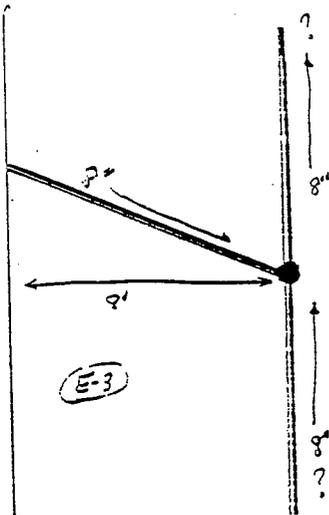
EIDER LANE



Rim 63.98

MH#	IN	IN	out	Comments
E-5	8"A	8"A	8"A	IN pipe, which is down 51" and is from E-6 is caved in at the top.
Down	51"	48"	47"	
From	E-6	E-3	G-5	
	59.73	59.98	60.06	

EIDER LANE



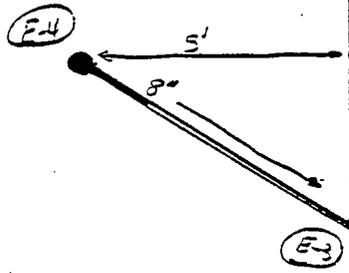
Rim 63.63

MH#	IN	IN	out	Comments
E-3	8"A	8"A	8"A	out pipe is filled w/ dirt and mud.
Down	49"	50"	52"	
From	E-4	E-5	H-3	
	59.55	59.46	59.30	



Rim 64.04

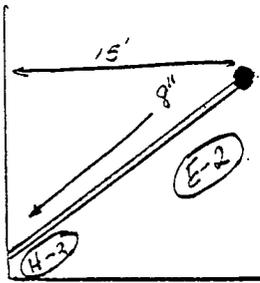
MH#	out	comments
E-4	8" A	sump is clean no problems
Down	43"	60.46
From	E-3	



EIDER LANE

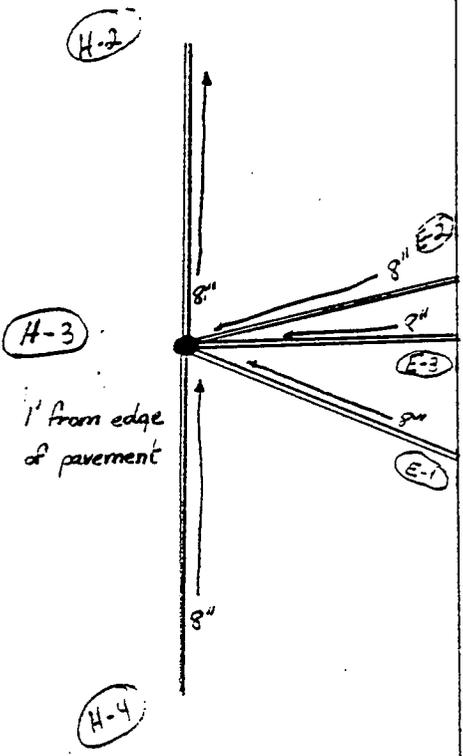
Rim 62.65

MH#	out	comments
E-2	8" A	sump clean no problems
Down	30"	60.15
From	H-3	



EIDER LANE

HUNTER LANE



HUNTER LANE

EIDER LANE

Rim 63.53

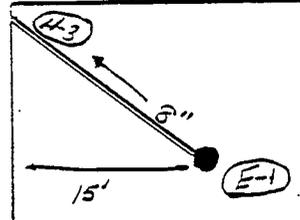
Comments	MH#	IN	IN	IN	IN	OUT
Sump clean no problems	H-3	8"A	8"A	8"A	8"A	8"A
Down		53"	53"	55"	54"	56"
		59.11	59.11	58.94	59.03	58.8
From		E-1	E-2	E-3	H-4	H-2

Rim 63.11

MH#	out	comments
E-1	8"A	Sump clean no problems
Down	4"	59.44
From	H-3	

HUNTER LANE

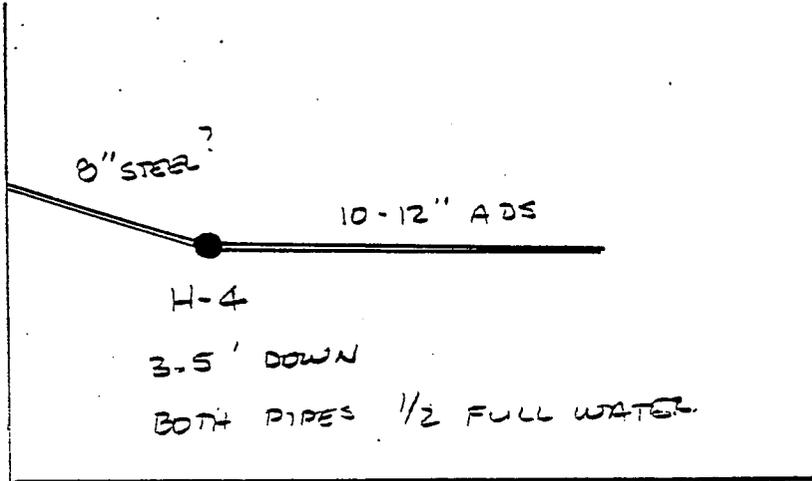
EIDER LANE



22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS



LOVER'S LANE



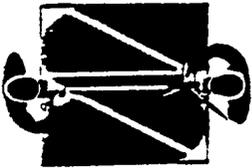
HUNTER LANE

RIM 62.79

INV'S - 59.29 BOTH PIPES

NOTICE

November 26, 1990

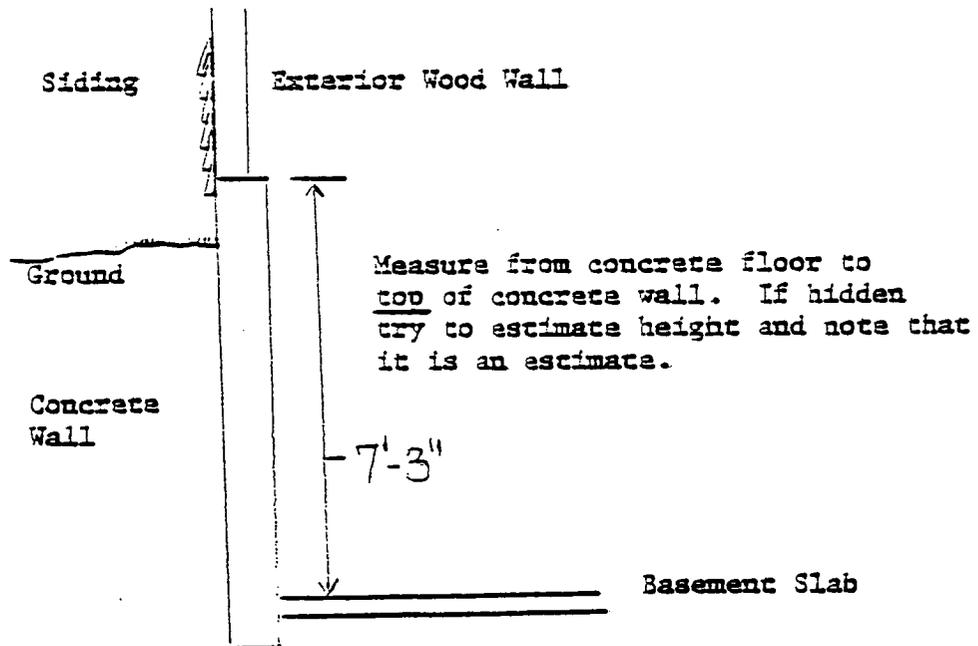


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HOW TO MEASURE BASEMENT TO SILL ELEVATION



Address 11 HUNTER LANE

Height of Foundation 87" (inches)

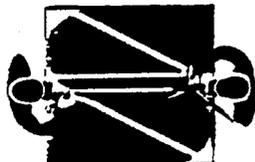
COMMENTS

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NOTICE

November 26, 1990

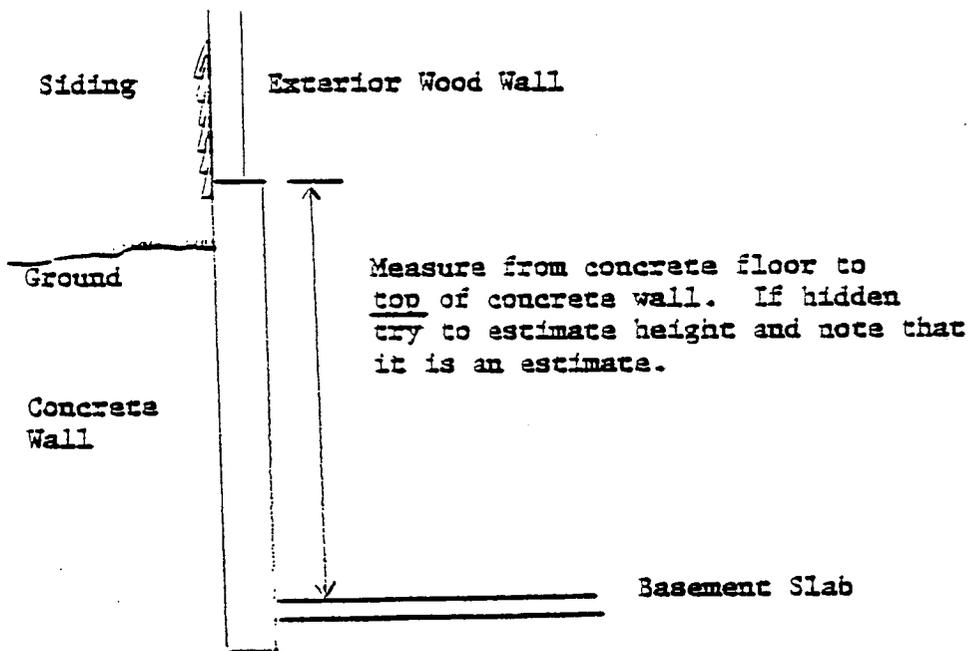


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HOW TO MEASURE BASEMENT TO SILL ELEVATION



Address 15 Hunter Ln

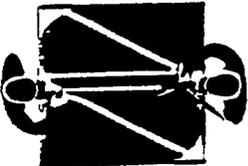
Height of Foundation 87"-88" (inches)

COMMENTS

lived here 3yrs, water in basement seems to be getting worse even with sump pump

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NOTICE

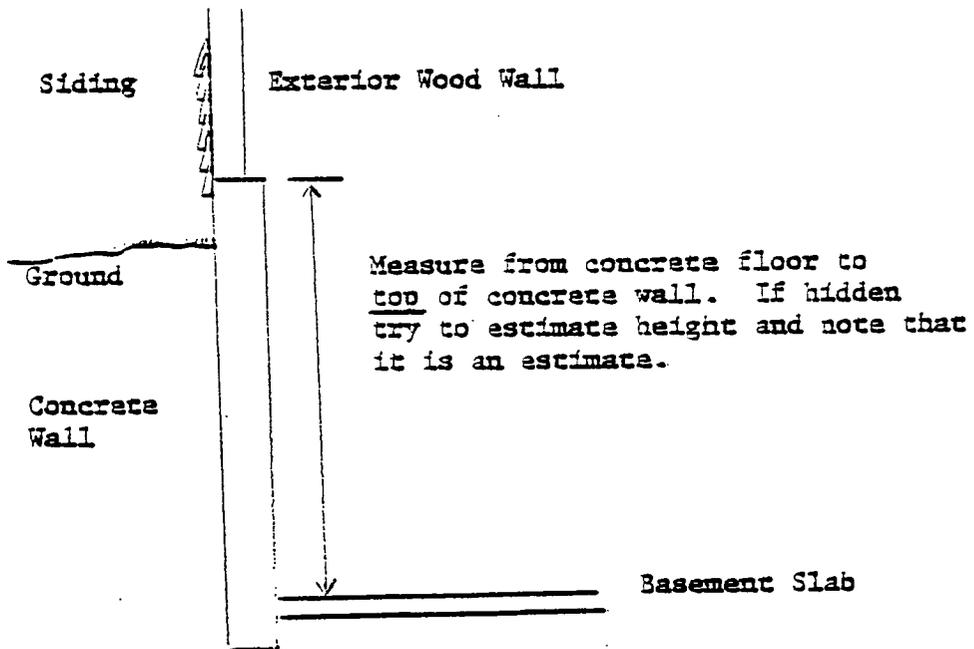
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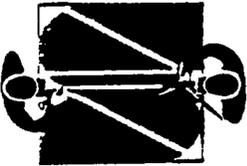
HOW TO MEASURE BASEMENT TO SILL ELEVATION



Address 19 HUNTER LA
Height of Foundation 43" (inches)

COMMENTS

SITELINES INC.



NOTICE

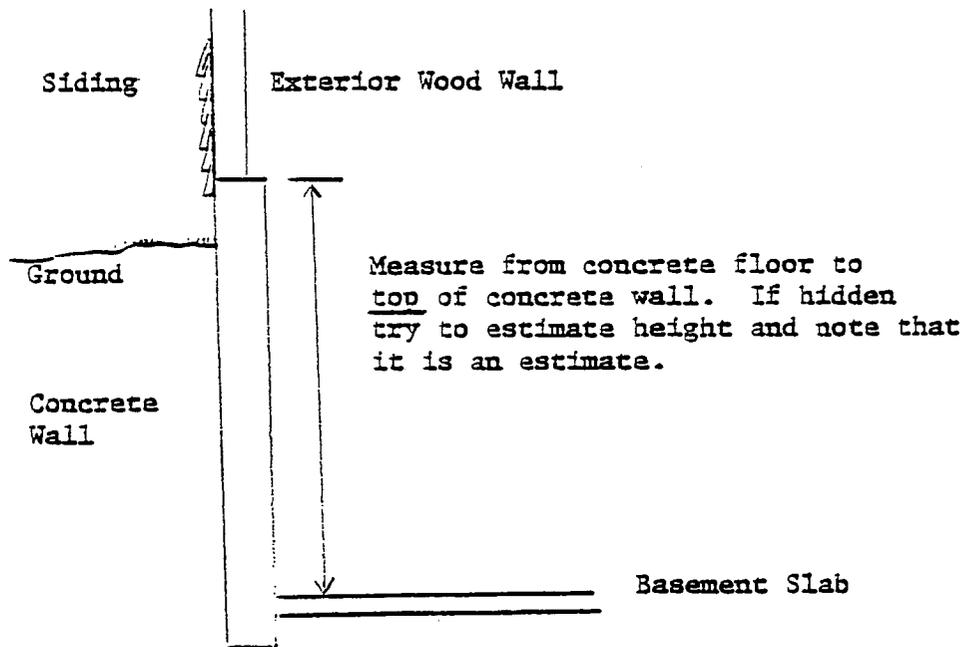
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HOW TO MEASURE BASEMENT TO SILL ELEVATION



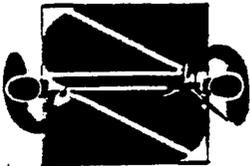
Address 25 Hunter Lane

Height of Foundation 6' 11 1/2" (inches)

COMMENTS

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NOTICE

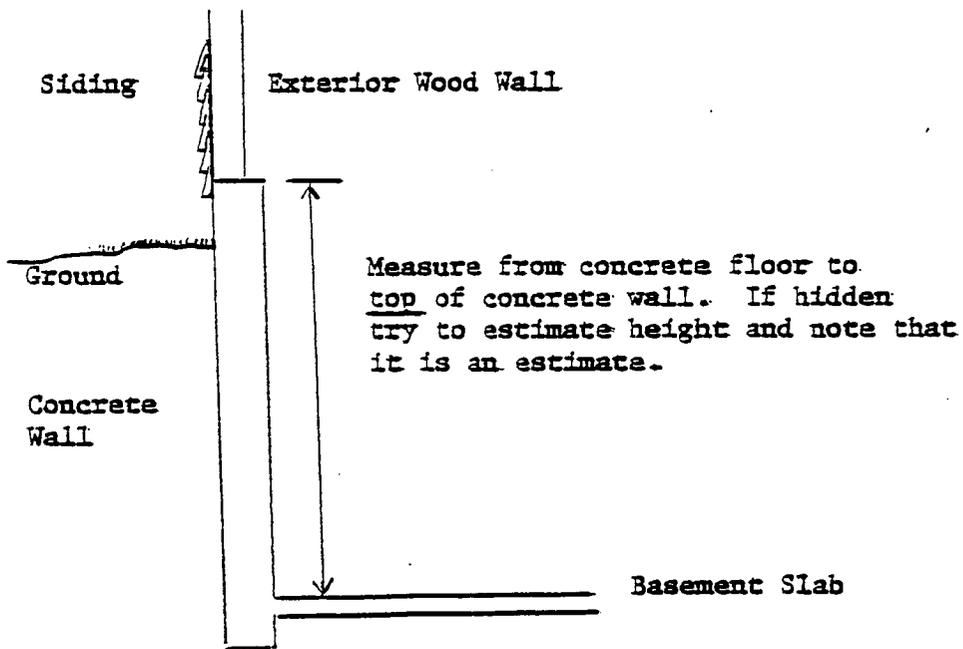
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HOW TO MEASURE BASEMENT TO SILL ELEVATION



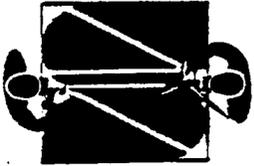
Address 23 GOLDENEYE DR

Height of Foundation 43 (inches)

COMMENTS

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NOTICE

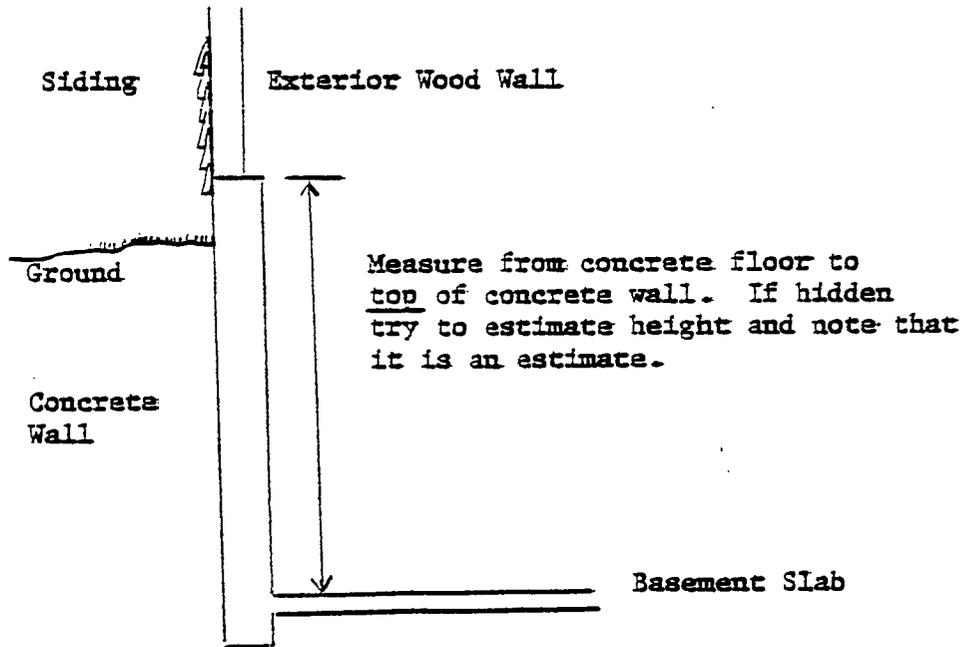
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HOW TO MEASURE BASEMENT TO SILL ELEVATION



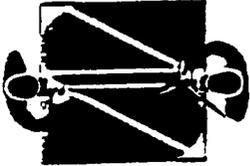
Address 27 Goldeneye Drive

Height of Foundation 43" (inches)

COMMENTS

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NOTICE

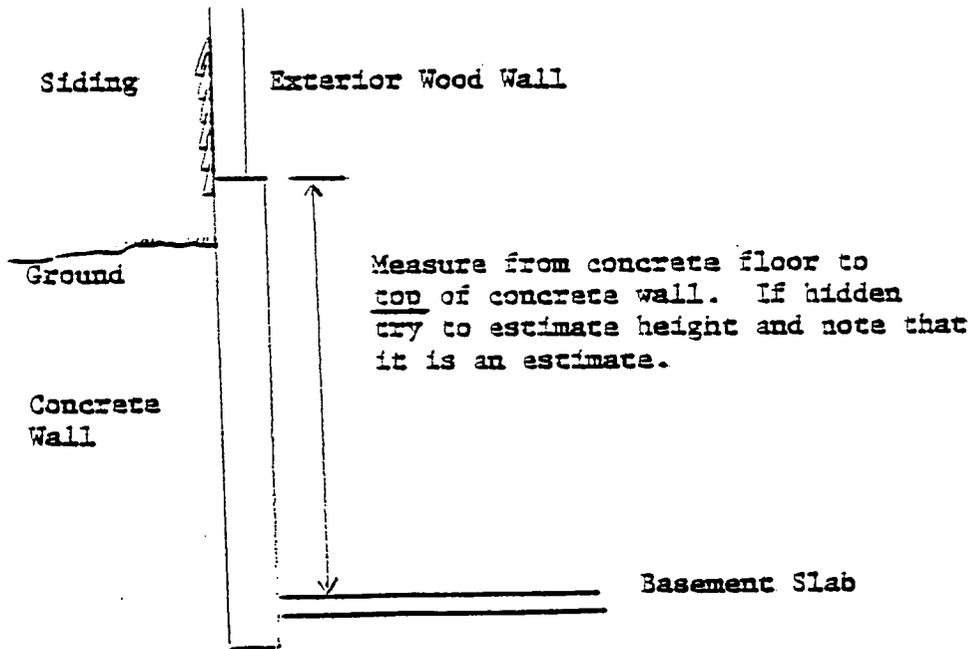
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HOW TO MEASURE BASEMENT TO SILL ELEVATION



Address 21 Hunter Lane

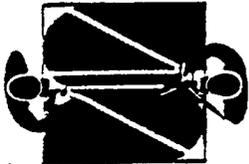
Height of Foundation 7'6" (inches)

COMMENTS

OUR sump pump runs most of the year. Cracks in slab and major cracks (splits) in concrete wall.

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NOTICE

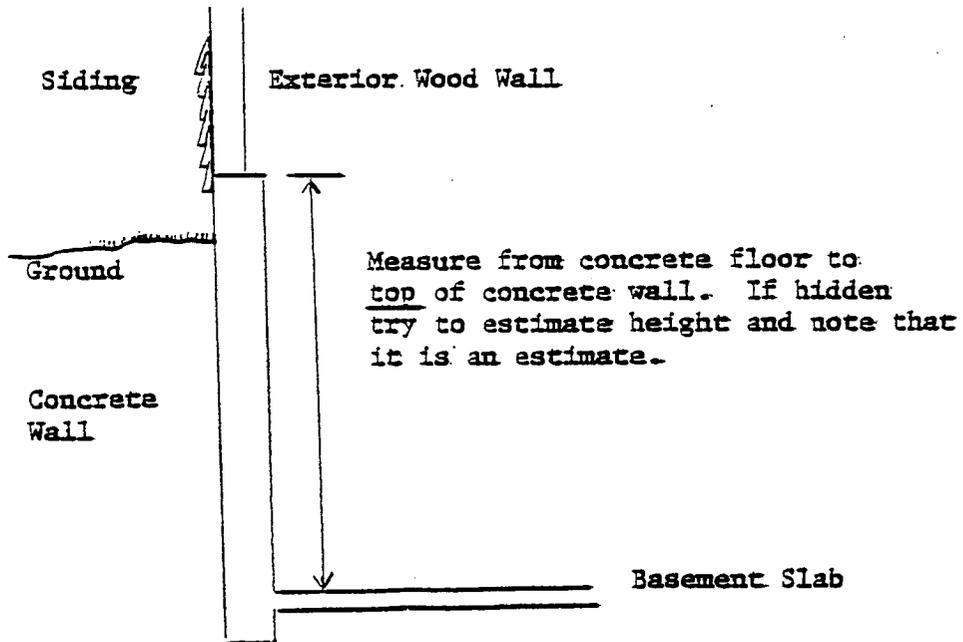
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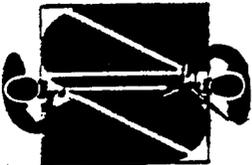
Address: 28 GOLDENEYE

Height of Foundation 48" (inches)

COMMENTS

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NOTICE

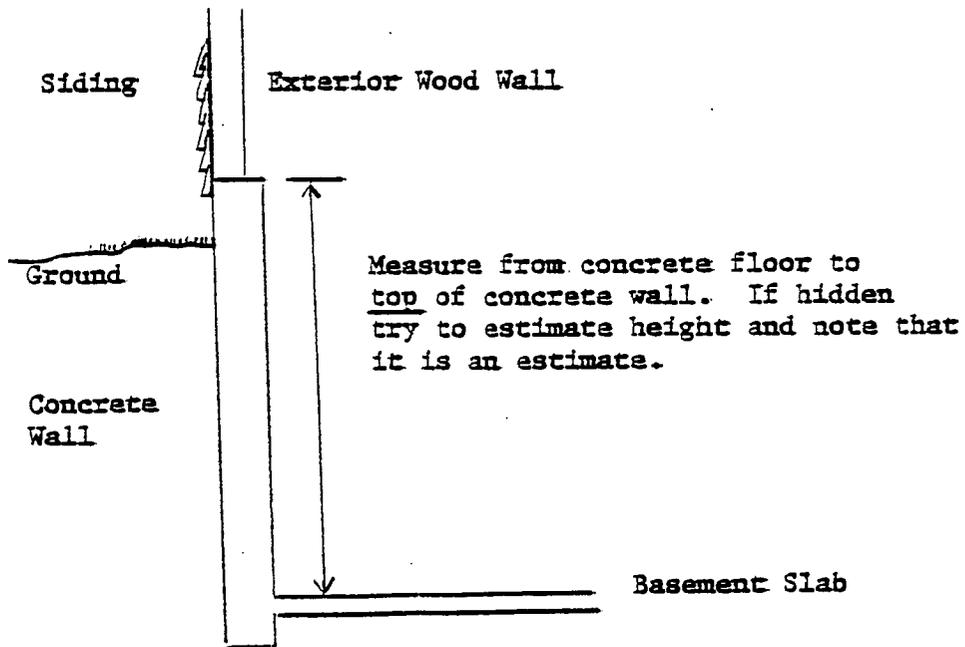
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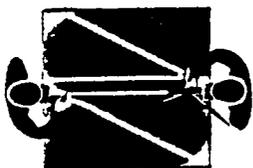
Address 29 GOLDENEYE DR.

Height of Foundation 43 (inches)

COMMENTS

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NOTICE

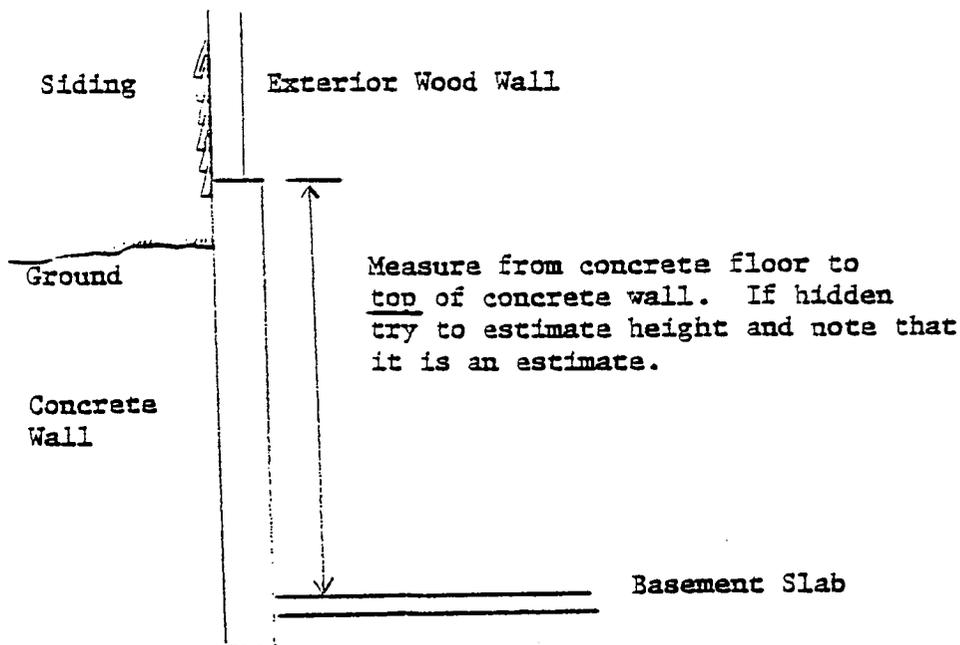
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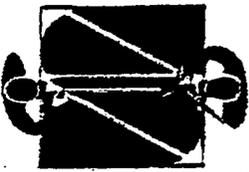
HOW TO MEASURE BASEMENT TO SILL ELEVATION



Address 30 Goldeneye Dr.

Height of Foundation 44 (inches)

COMMENTS



NOTICE

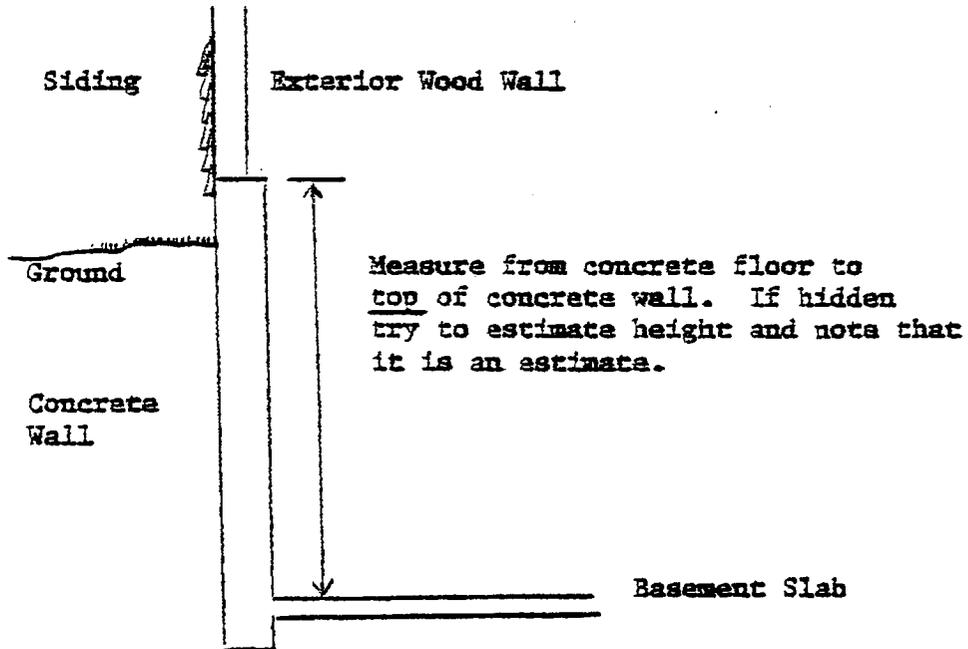
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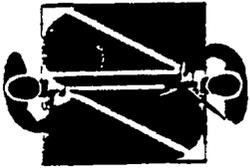


Address 31 GOLD SWISYS
Height of Foundation 48 (inches)

COMMENTS

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NOTICE

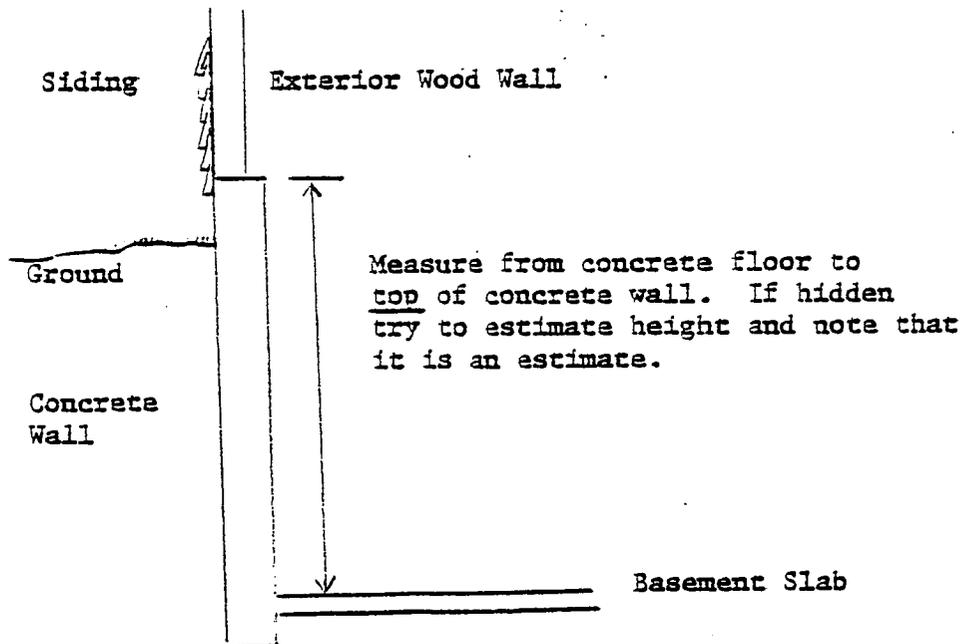
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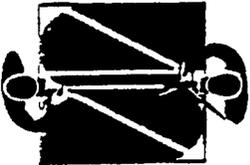
Address 32 Goldeneye

Height of Foundation 43 (inches)

COMMENTS

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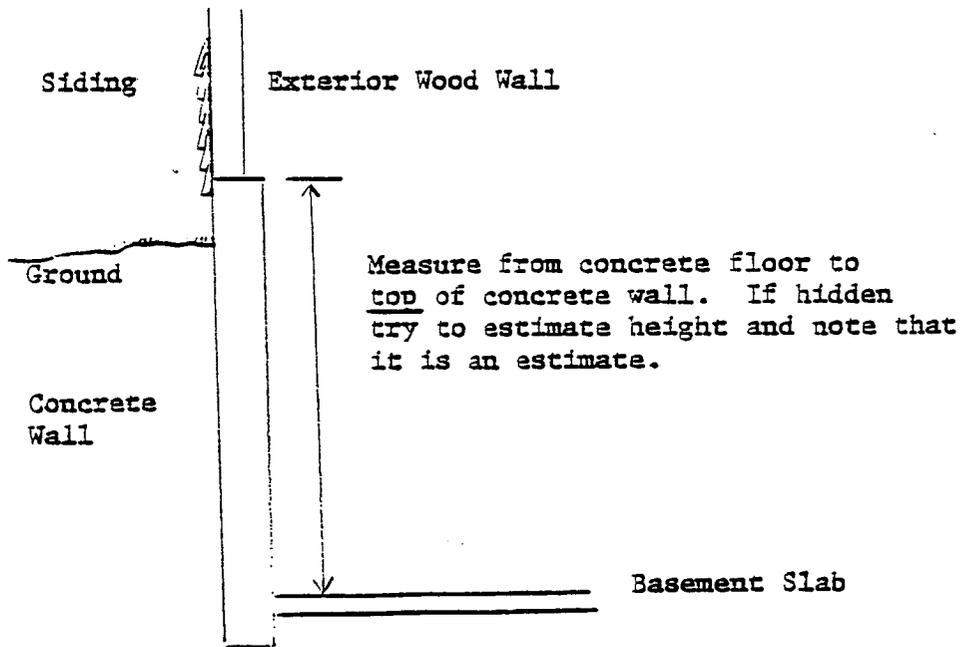
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HOW TO MEASURE BASEMENT TO SILL ELEVATION



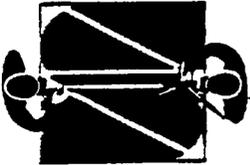
Address 36 GOLDENEYE

Height of Foundation 89 (inches)

COMMENTS

SITELINES INC.

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NOTICE

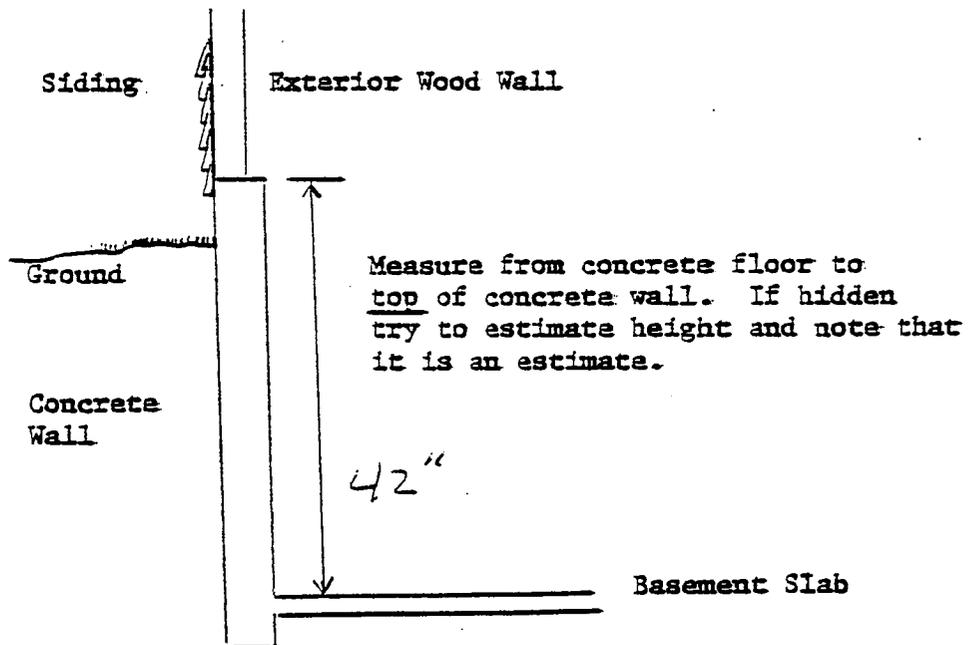
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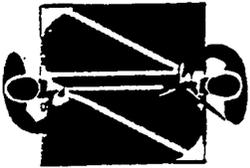
Address 37 GOLDEN EYE DR

Height of Foundation 42 (inches)

COMMENTS

SITELINES INC.

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NOTICE

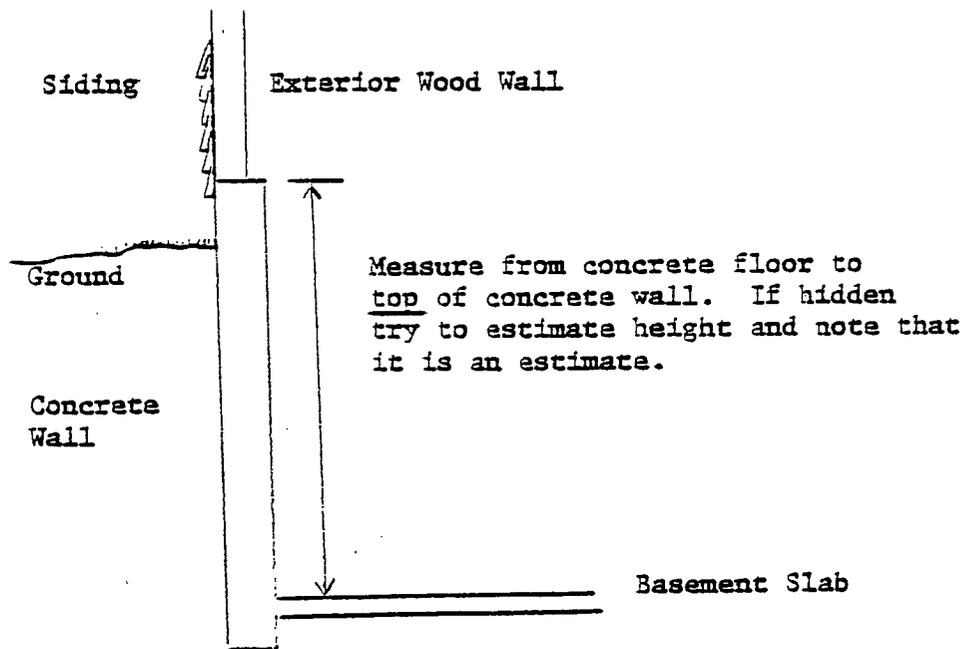
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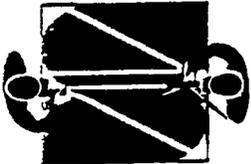
Address 23 Eider Lane

Height of Foundation 86 (inches)

COMMENTS

SITELINES INC.

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NOTICE

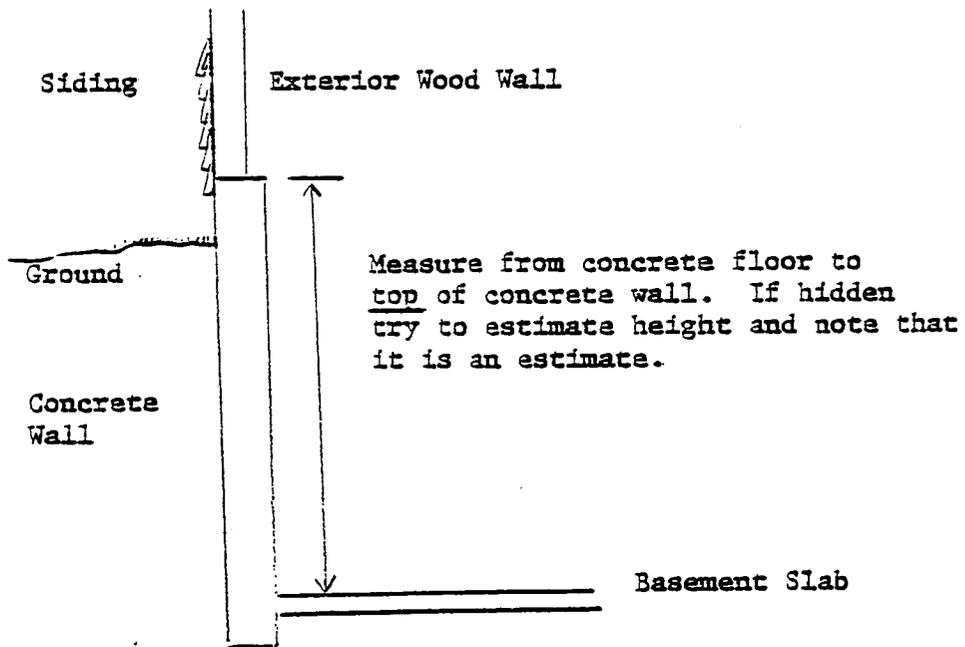
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HOW TO MEASURE BASEMENT TO SILL ELEVATION



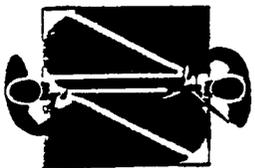
Address 24 Eider Lane

Height of Foundation 40 1/4" (inches)

COMMENTS

SITELINES INC.

ENGINEERS • SURVEYORS • Suite 202 • Fort Andross, 14 Maine St. • Brunswick, ME 04011 • 207-725-1200 • FAX 725-1114



NOTICE

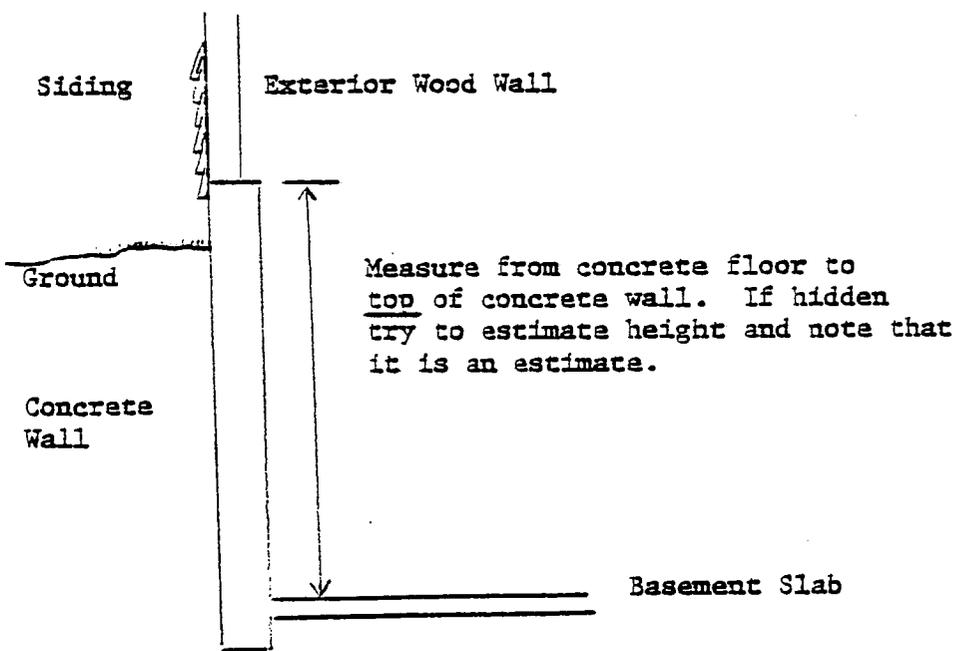
November 26, 1990

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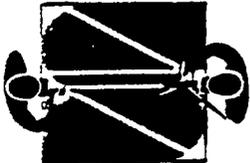
Address 26 EIDER

Height of Foundation 40 1/2 (inches)

COMMENTS

SITELINES INC.

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NOTICE

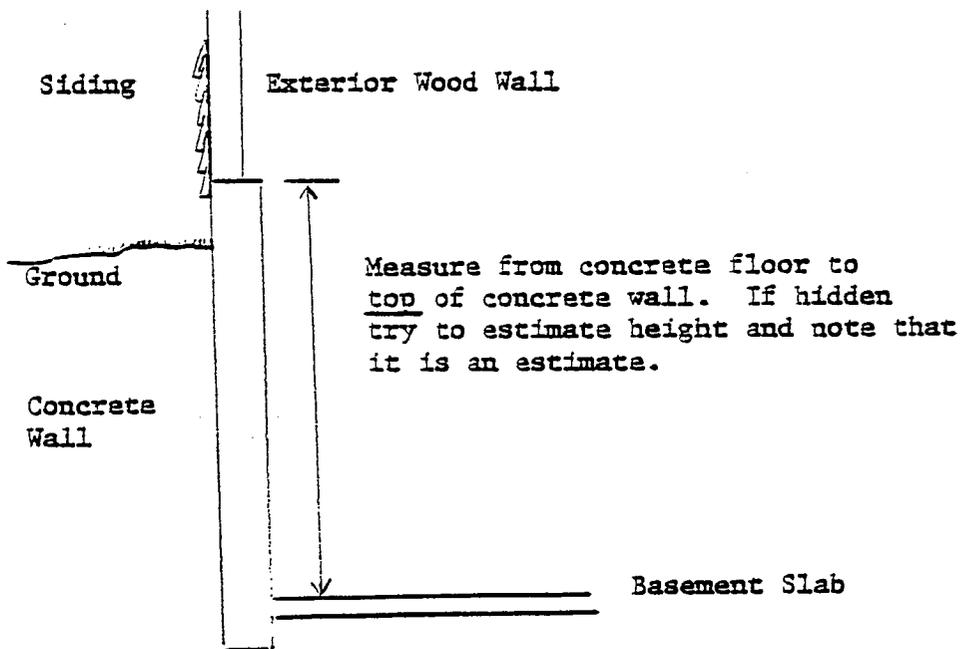
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HOW TO MEASURE BASEMENT TO SILL ELEVATION



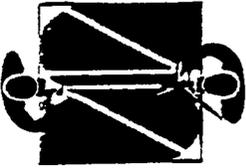
Address 29 Eider Lane

Height of Foundation 41 (inches)

COMMENTS

SITELINES INC.

ENGINEERS • SURVEYORS • Suite 202 • Fort Andrews, 14 Maine St. • Brunswick, ME 04011 • 207-725-1200 • FAX 725-1114



NOTICE

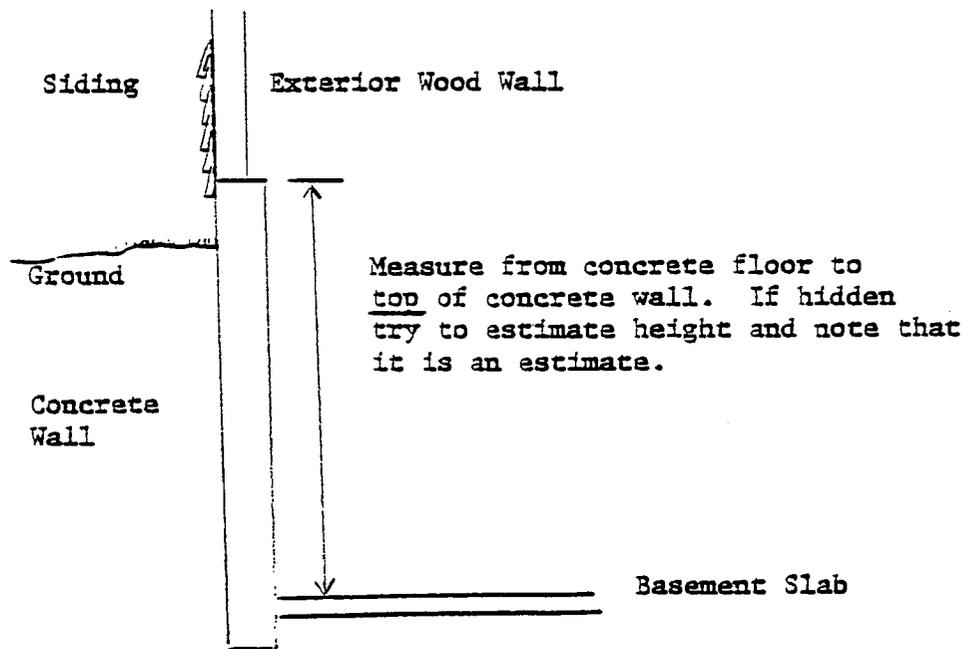
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HOW TO MEASURE BASEMENT TO SILL ELEVATION



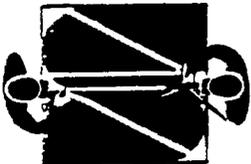
Address 31 Eider Lane

Height of Foundation 38 1/2 (inches)

COMMENTS

SITELINES INC.

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NOTICE

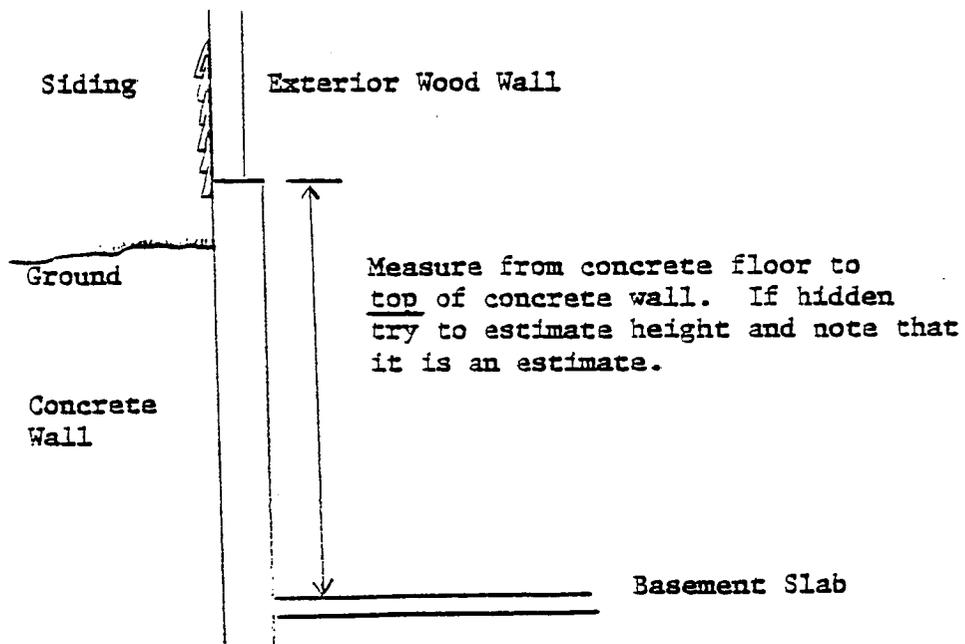
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HOW TO MEASURE BASEMENT TO SILL ELEVATION



Address 33 EIDER LANE

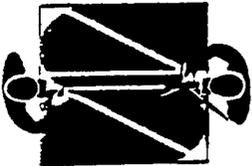
Height of Foundation 37 3/4" (inches)

COMMENTS

- Purchased home in '88 (August): Seller represented as "dry"
- 3" of water in basement, May '89
- Some seepage but no measurable accumulation, Spring '90

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NOTICE

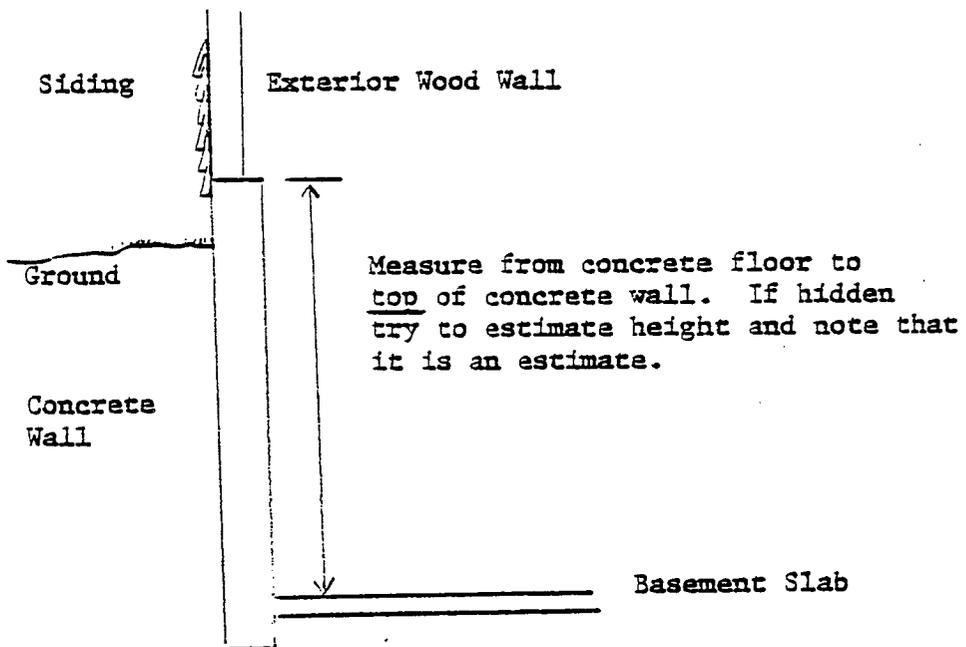
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HOW TO MEASURE BASEMENT TO SILL ELEVATION



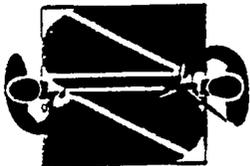
Address 34 Eider Ln.

Height of Foundation 43 (inches)

COMMENTS

SITELINES INC.

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NOTICE

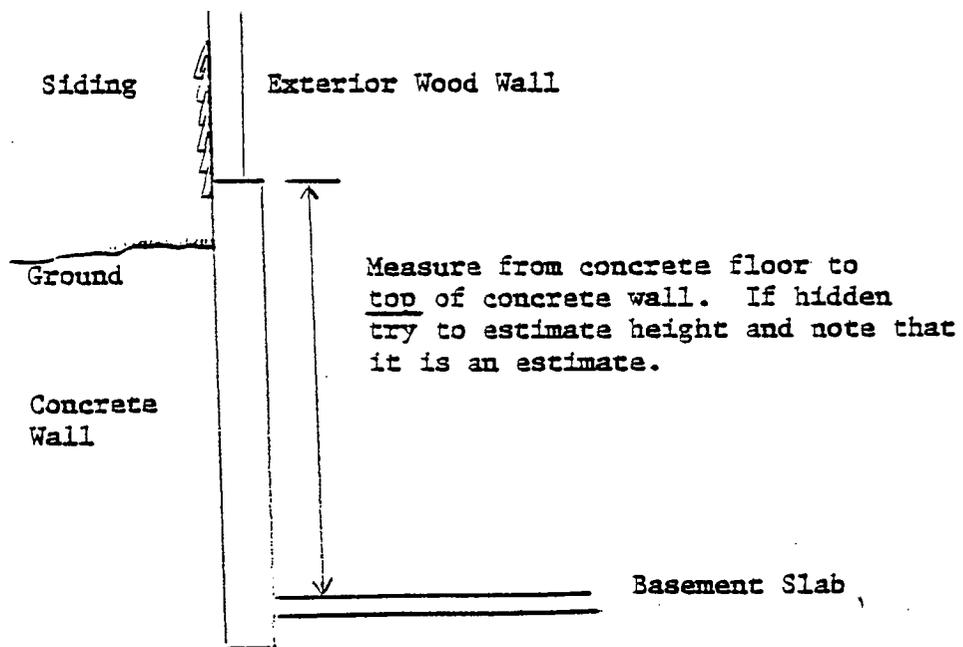
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HOW TO MEASURE BASEMENT TO SILL ELEVATION



Address 35 Eider Ln

Height of Foundation 42 (inches)

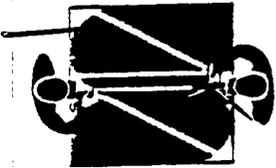
COMMENTS

SITELINES INC.

ENGINEERS • SURVEYORS • Suite 202 • Fort Andross, 14 Maine St. • Brunswick, ME 04011 • 207-725-1200 • FAX 725-1114

NOTICE

November 26, 1990

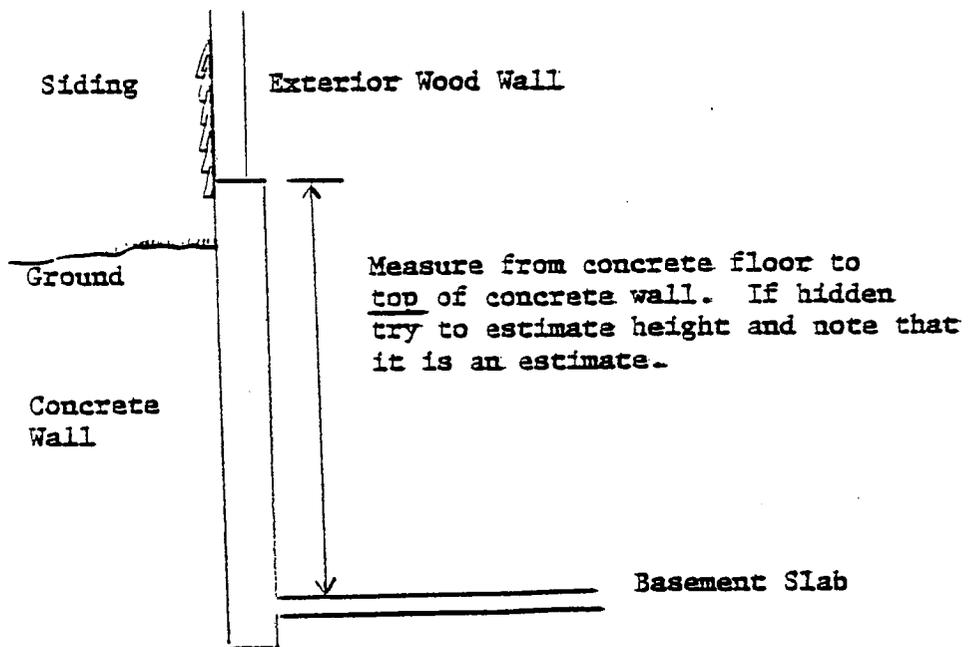


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HOW TO MEASURE BASEMENT TO SILL ELEVATION



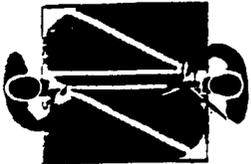
Address 36 EIDER LANE

Height of Foundation 7' 3 1/2" (inches)

COMMENTS

SITELINES INC.

ENGINEERS • SURVEYORS • Suite 202 • Fort Andross, 14 Maine St. • Brunswick, ME 04011 • 207-725-1200 • FAX 725-1114



NOTICE

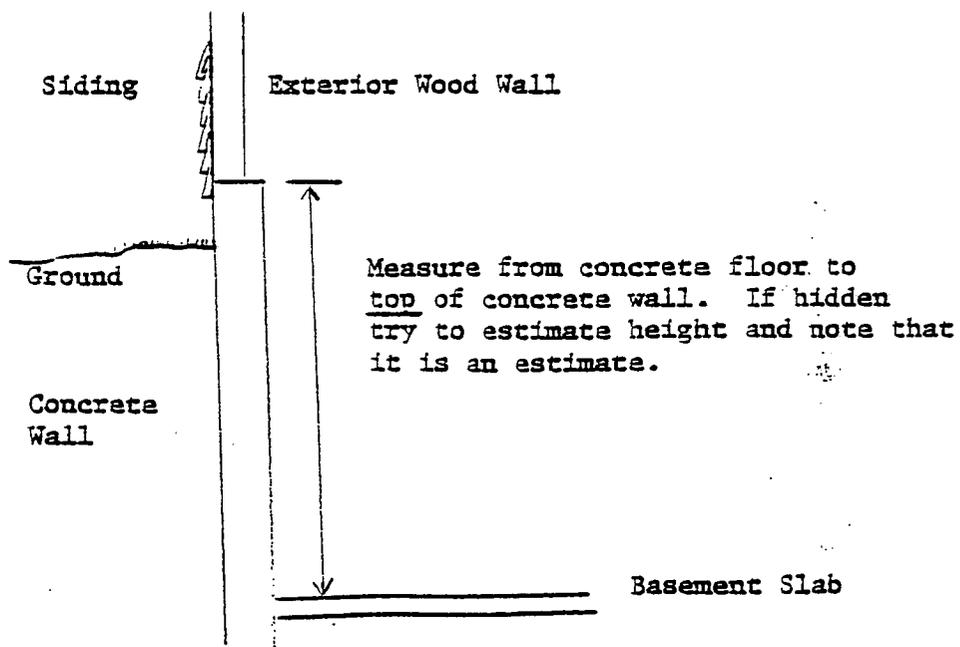
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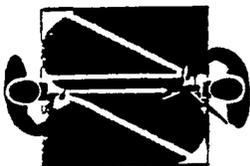
Address 37 Eider Lane

Height of Foundation 41 (inches)

COMMENTS If we can be of anymore help please let us know.

SITELINES INC.

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NOTICE

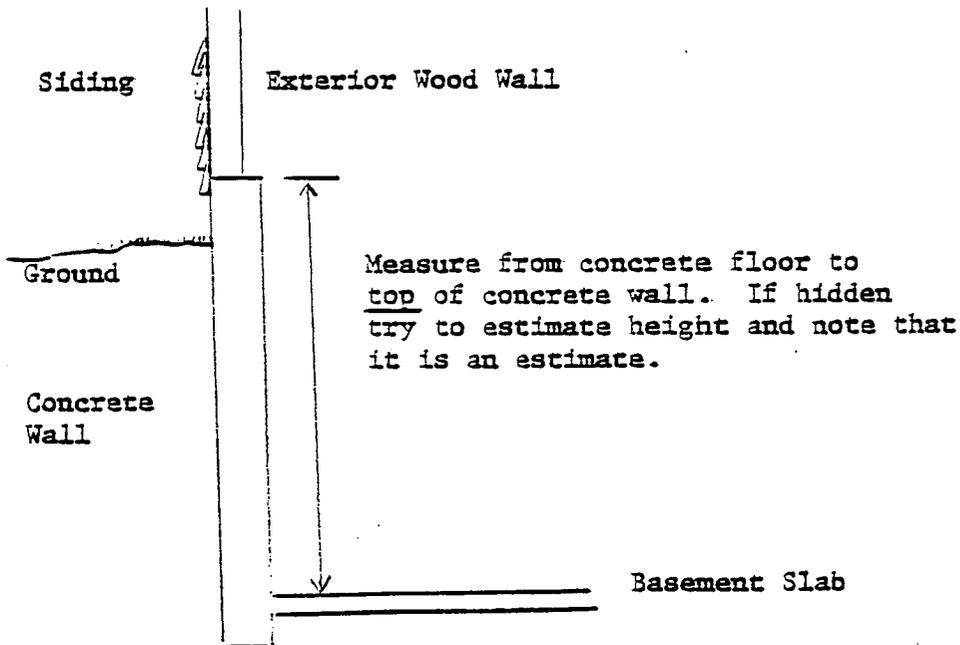
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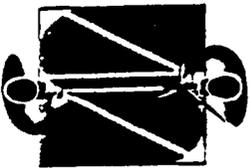
Address 38 EIDER LANE

Height of Foundation 43 (inches)

COMMENTS

SITELINES INC.

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NOTICE

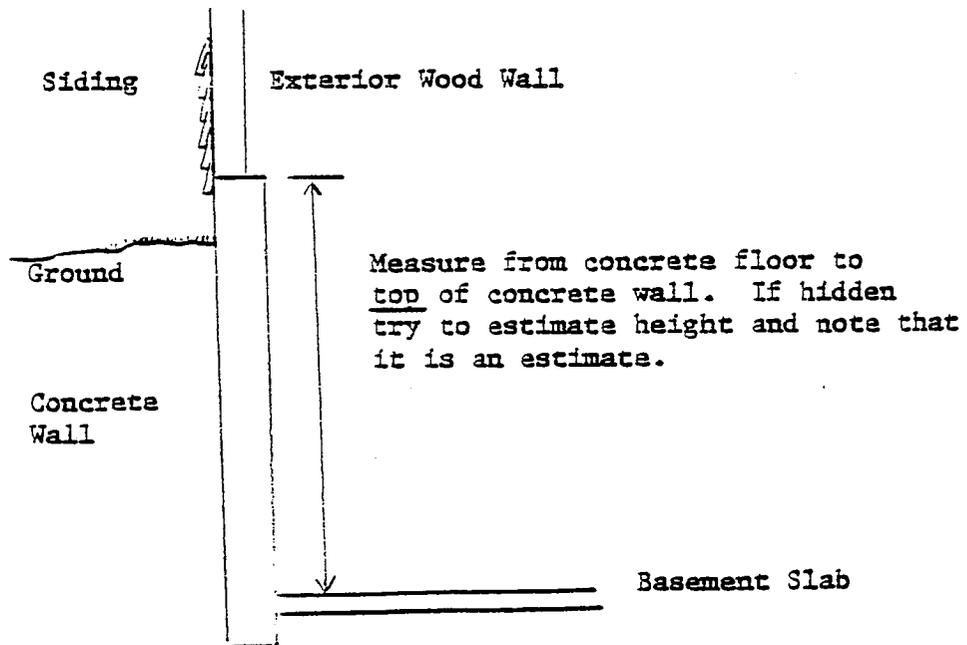
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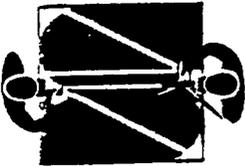
Address 39 EIDER LN

Height of Foundation 41-3/4" (inches)

COMMENTS

SITELINES INC.

ENGINEERS • SURVEYORS • Suite 202 • Fort Andross, 14 Maine St. • Brunswick, ME 04011 • 207-725-1200 • FAX 725-1114



NOTICE

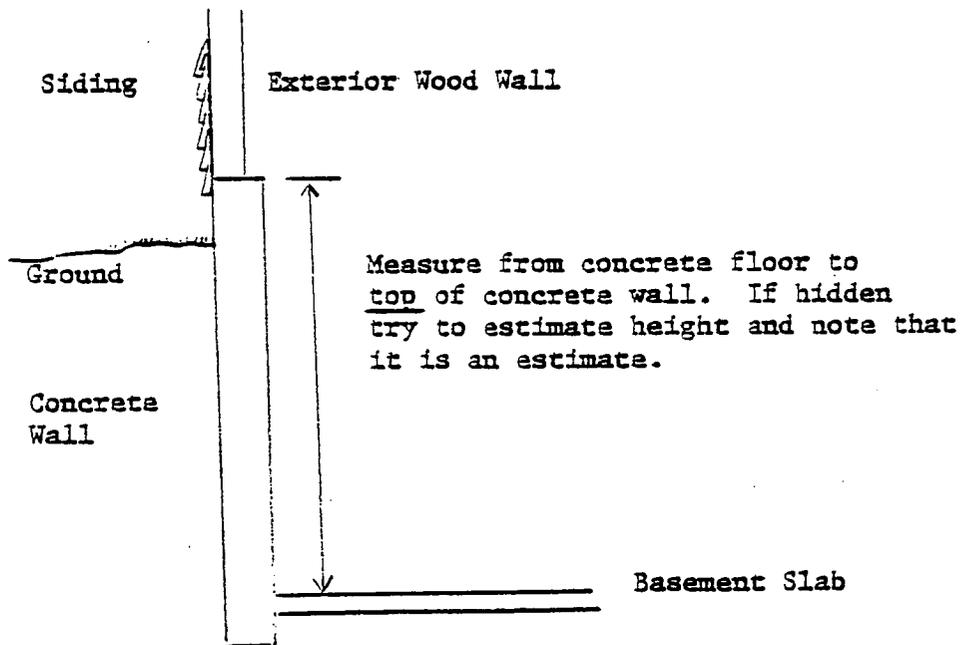
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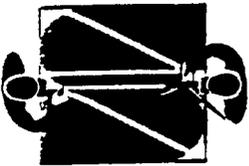
Address 41 Eider Lane

Height of Foundation 38 1/2" (inches)

COMMENTS

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ENGINEERS • SURVEYORS • Suite 202 • Fort Andross, 14 Maine St. • Brunswick, ME 04011 • 207-725-1200 • FAX 725-1114



NOTICE

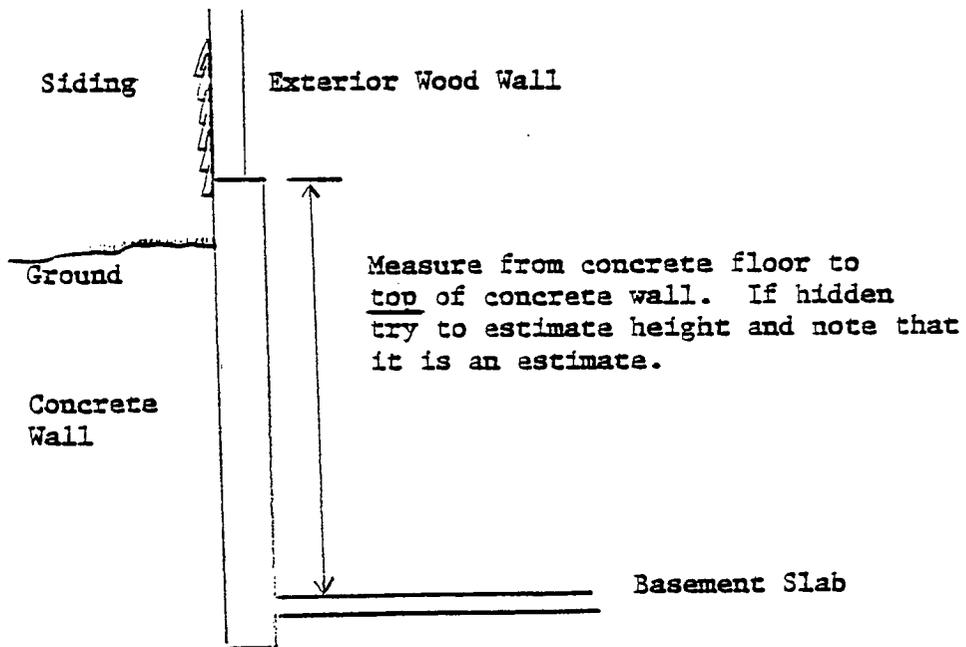
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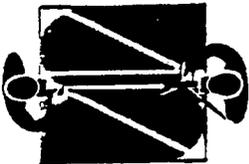


Address 42 Eider Lane
Height of Foundation 44 inches (inches)

COMMENTS *Approximate*

SITELINES INC.

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NOTICE

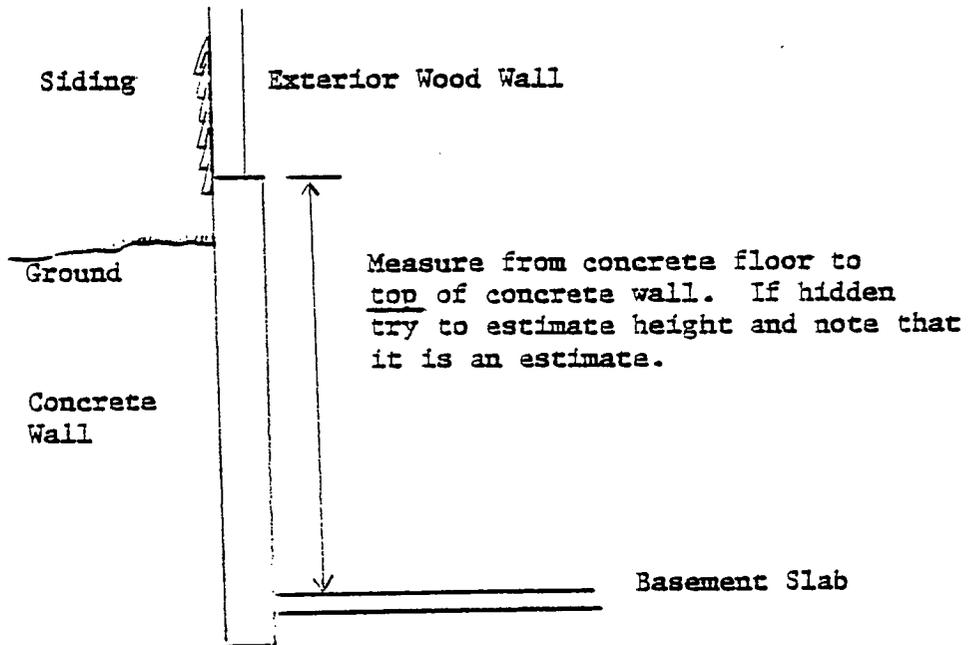
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HOW TO MEASURE BASEMENT TO SILL ELEVATION



Address 44 Eider Ln.

Height of Foundation 45 (inches)

COMMENTS

SITELINES INC.

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BRIDGE LOCATION STUDY
BRUNSWICK/TOPSHAM
PIN #665.00 SHEET 3 OF 12

IMAGED BY AERIAL SURVEY & PHOTO, INC., NORRIDGEWOCK, MAINE
IN PHOTOGRAMMETRIC METHOD
FROM AERIAL PHOTOGRAPHS DATED 5-5-83
CONTROL BY MAINE DEPT. OF TRANSPORTATION

MATCH SHEET 2
SCALE: 1" = 500'
CONTOUR INTERVAL IS 5 FEET
DATUM: NORTH AMERICAN VERTICAL DATUM OF 1955
GRID - FOOT GRID BASED ON MAINE COORDINATE SYSTEM (WEST ZONE)

BAY PARK DRAINAGE STUDY
ALTERNATE OUTLET POINTS
FOR
TOWN OF TOPSHAM

SITELINES, INC.
ENGINEERS PLANNERS SURVEYORS
SITE 202 FORT ANTHONY 14 MAINE ST. BRUNSWICK, MAINE 04011
(207) 728-1200 FAX: (207) 725-1114

DATE	DATE	DATE	DATE	DATE
DRW. BY	CHKD. BY	APPROV. BY	SCALE	PROJECT NO.