

16-Bulk Barns 1000 gpm ea, Tobacco Storage - 1000GA
Garage/Storage 2300 gpm,
HANDOUT #17

PRE-INCIDENT SURVEY

2/18/12

Building Name: Pope Enterprises Farm Survey #: 38

Street Address: 5333 Clarke Neck Rd

City, State, Zip: Washington NC 27889

Primary Use: Tobacco Curing Construction Type: trusses & stick

Possible Entry: _____

Possible Occupancy: A.M. P.M.

Known Handicapped Personnel: _____

NOTIFY IN CASE OF EMERGENCY

Name: Crowell Pope JR. Name: _____

Phone: 946-9184 Phone: _____

BUILDING CONSTRUCTION

Roof Type: Metal Floor Construction: slab

Roof Construction: truss

Basement Construction Type: N/A Height of Basement: _____

Number of Stories: 1 Height of Each Story: 16

Length: _____ Width: _____ Height: _____

Attic Area: _____ Size: L _____ X W _____ X H _____

UTILITY TYPES

Gas: Natural Type: _____

Gas Shut Off Valve Location: at each barn

Electric: Washington Phase: 3

Panel Location: _____

Alarm Location: _____

EXPOSURES

North: _____ FT. West: _____ FT. South: _____ FT. East: _____

Type: _____ Type: _____ Type: _____ Type: _____

SUPPRESSION CRITERIA

Needed Fire Flow: 2300 Total Water Supply: _____

Fuel Load: _____ Rate of Flow: _____

HYDRANT LOCATIONS

(1) 5440 Clarks Neck Rd. Flow: 500 Unit: GPM

(2) Grimesland Bridge Rd & Clarks Neck Flow: 500 Unit: GPM

(3) _____ Flow: _____ Unit: _____

(4) _____ Flow: _____ Unit: _____

OTHER WATER RESOURCES

(1) Tanker

(2) _____

(3) _____

SPECIAL RESOURCES

(1) _____

(2) _____

(3) _____

MUTUAL AID

(1) Grimesland Assignment: Tanker & Hydrant Fill @ CN FD.

(2) Pastolus Assignment: Tanker & Hydrant @ CN FD & GBRD.

(3) _____ Assignment: _____

STAGING AREA

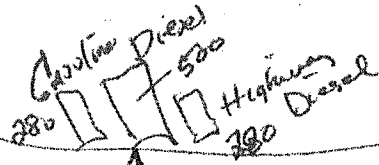
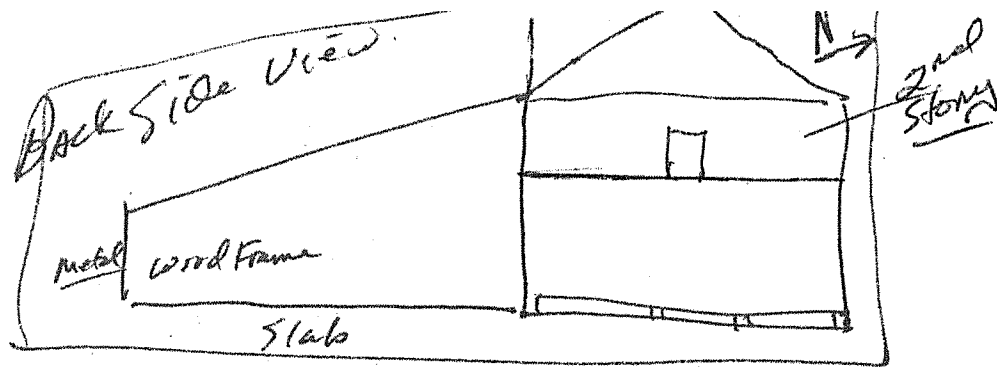
Primary: Clark Neck Rd

Secondary: _____

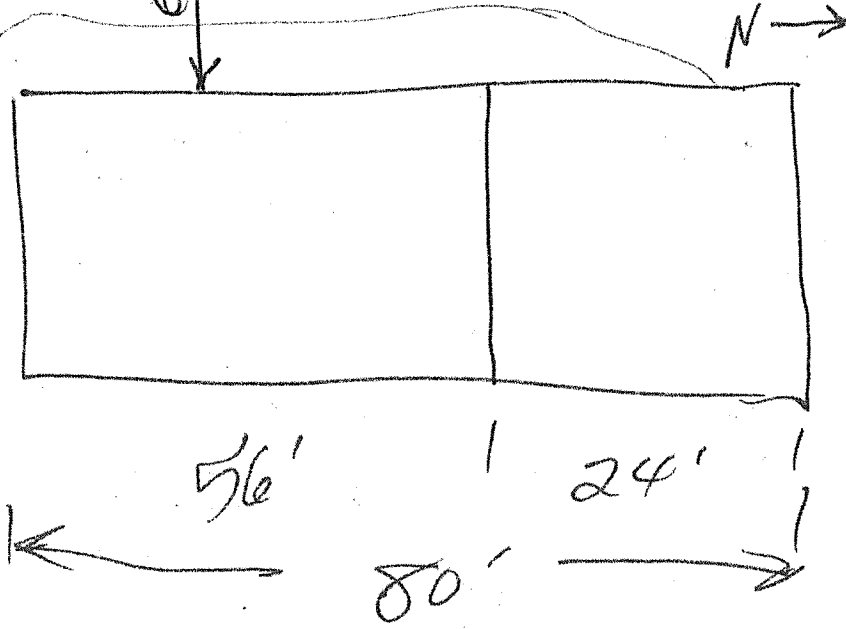
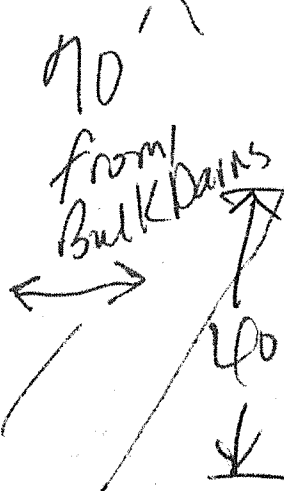
MISCELLANEOUS INFORMATION

Sprinkler Connection: _____

Standpipe Connection: _____

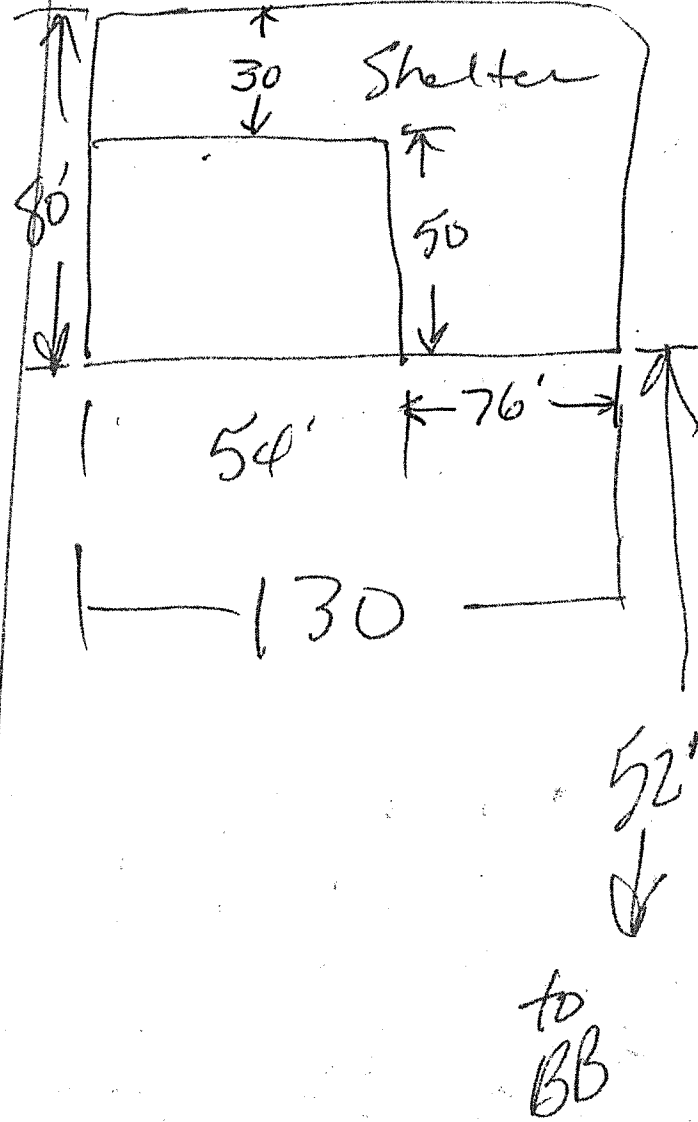


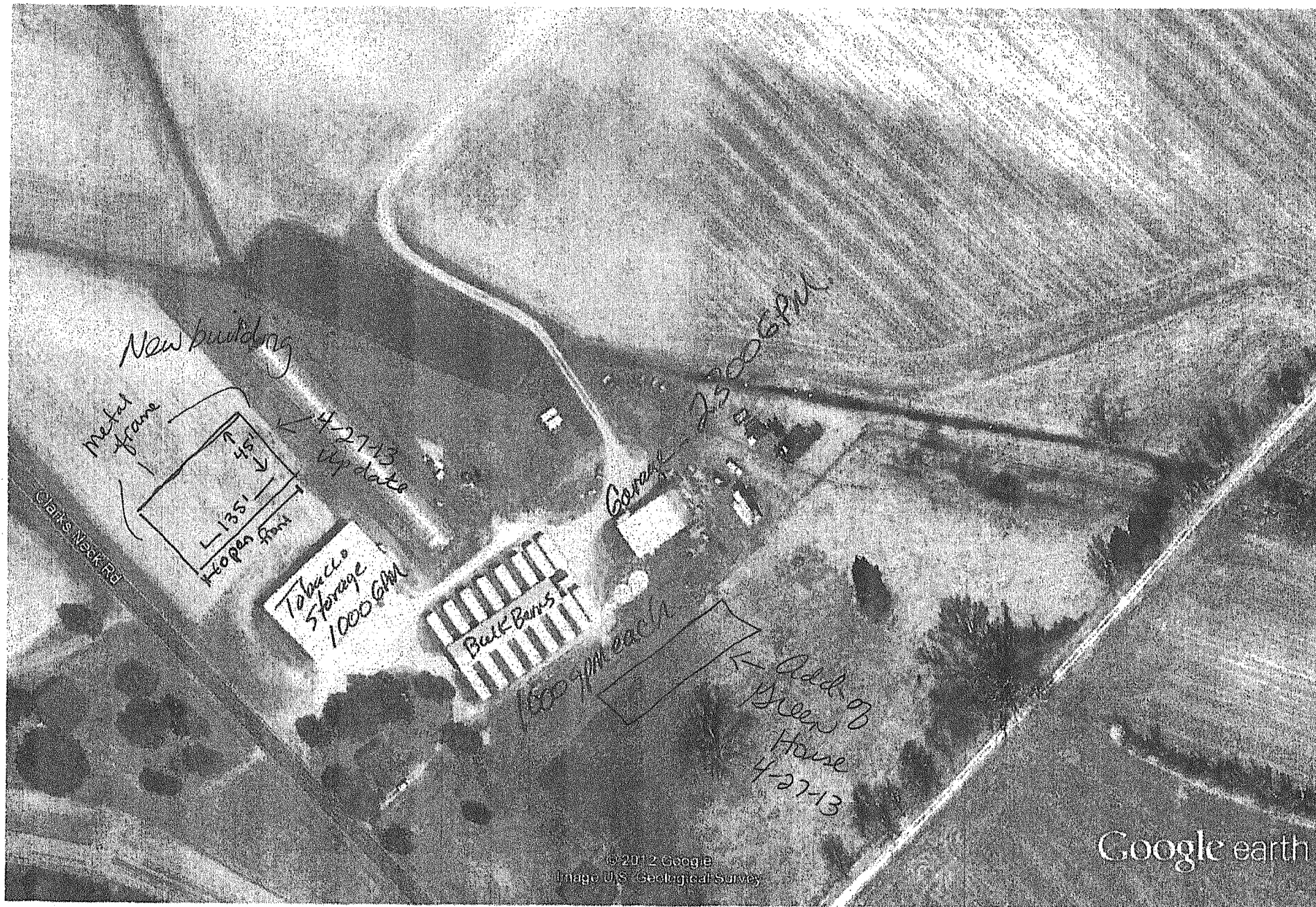
N of Bulkheads



SW of BB.

N →





Google earth

feet
meters



Pope's Farm
5333 Clark's Neck Rd



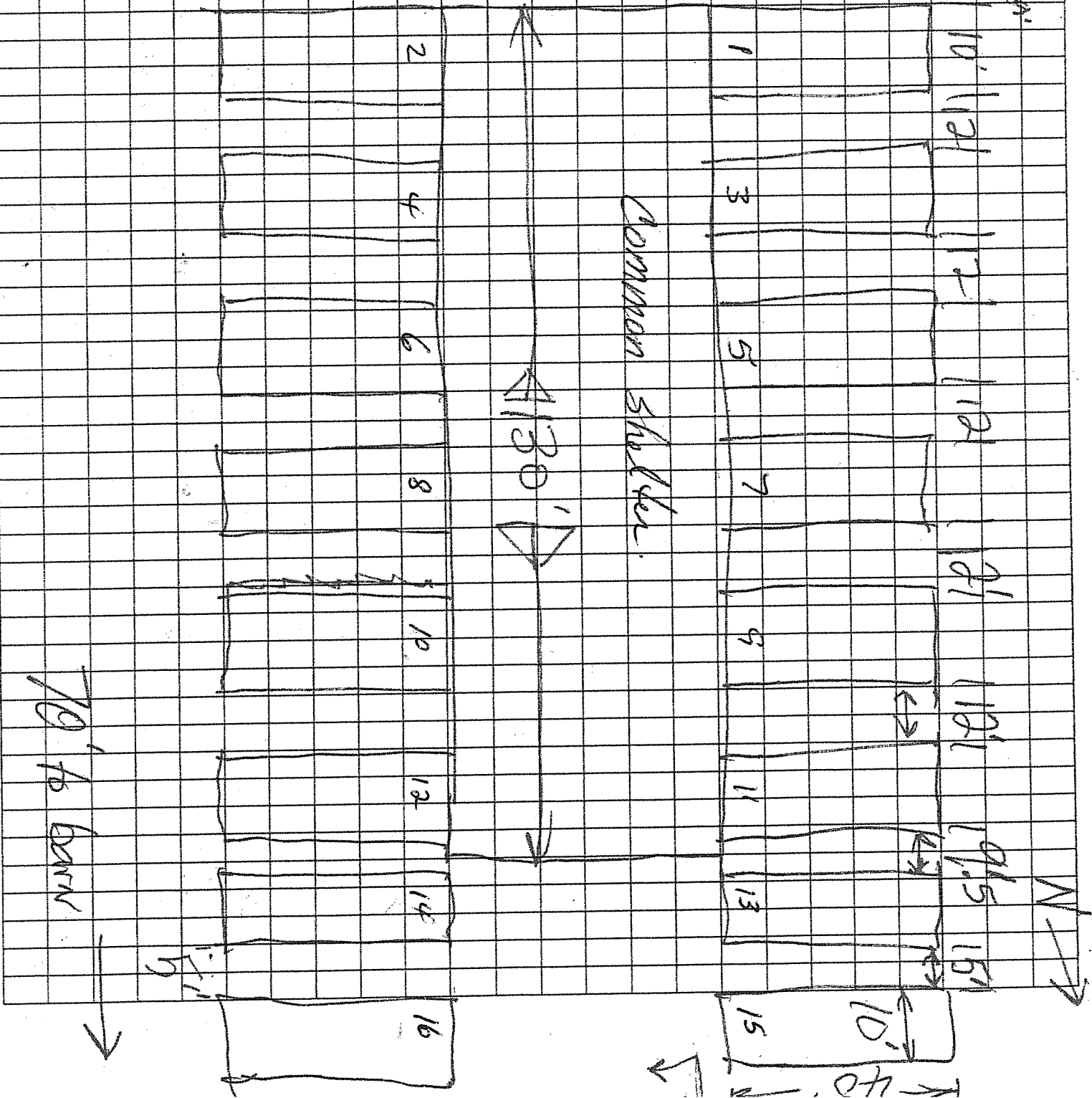


Address: _____

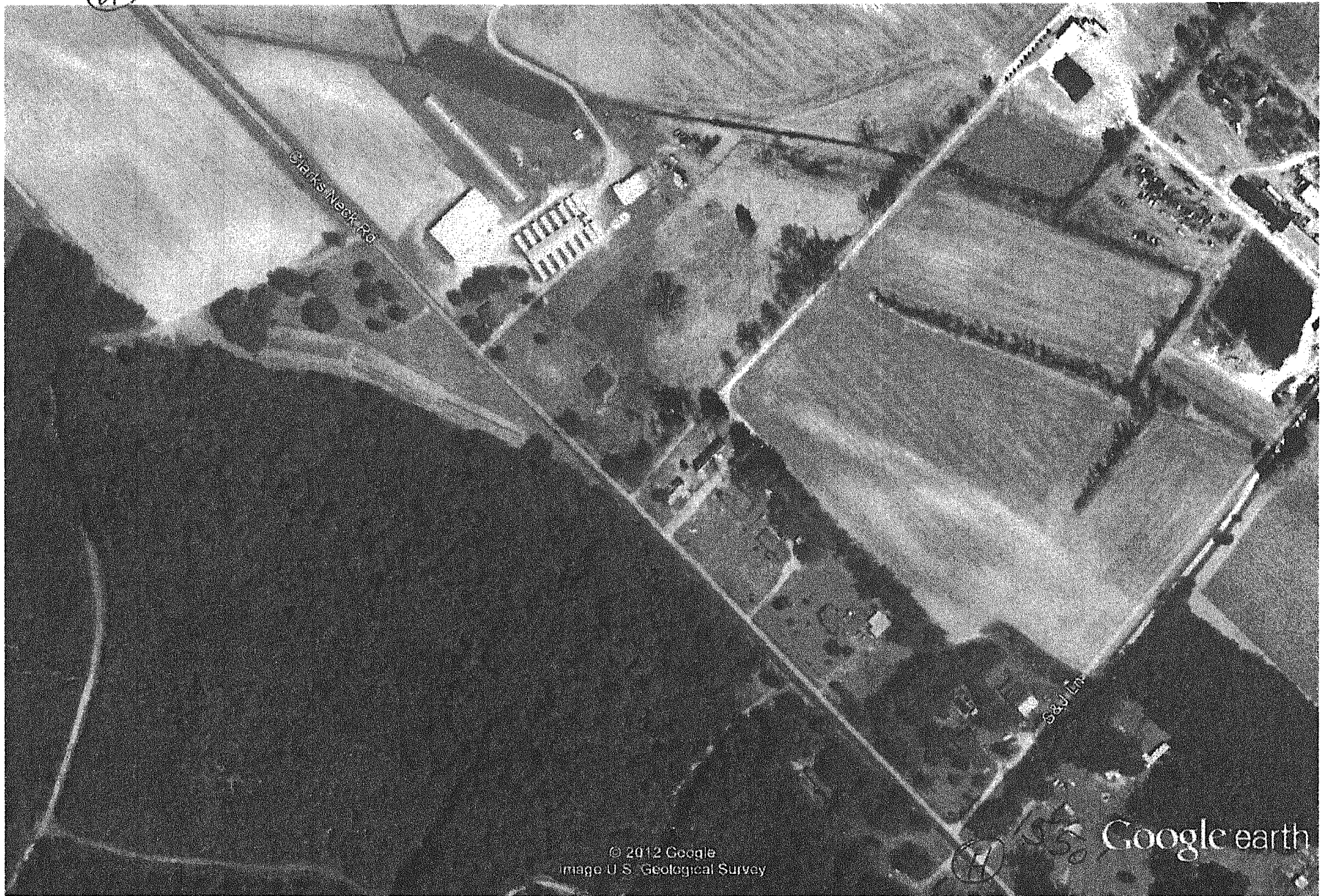
Pre-Plan #: _____

Name: _____

Shelter 14' to Eave ^{wood} Trussed roof w metal cover 3' C/L



④ 5330' @ Clark Neck & Grimston Bridge Ads



Google earth

feet
meters

1000

500

Pope's Farm
5333 Clark Neck Rd.



Structure Name Pope Farm - Tobacco Storage
 Structure Address 5333 Clarks Neck Rd.

Length	Width	Sq Ft	Sq Root	X 18	X construction type	GPM sum 1	X Occupancy	GPM sum 2
50	54	2700	51.96	935.31	0.8	748.25	1.15	860.48

Exposure % add	Exposure add GPM	Exposure per side (75% max) Total Side A	Exposure per side 75% max Side B	Exposure per side 75% max Side C	Exposure per side 75% max Side D	Total GPM with exposures
25%	215.12	120	0	0	0	980.48
19%	163.49		0			
14%	120.47					
9%	77.44					
75%	645.36	Total A, B, C, D				
	MAX	120				

Round off to nearest 250 GPM for flows less than 2500 GPM the nearest 500 GPM over 2500 GPM

Column F
Fire Resistive 0.6
Non-combustible 0.8
Ordinary 1
Wood Frame 1.5

Column H
.75 If Mostly non-combustible contents
.85 If Limited combustibles (apartments, churches, schools, hospitals)
1.0 If Mostly combustible (restraunts, sheds, garages)
1.15 If Free burning contents (post offices, horse stables, feed mills, repair garages, ag storage)
1.25 If Rapid burning (aircraft hangers, tires, flammable liquids, wood working)

Column J, K, L and M
If up to 10 feet add 25% per side
If 11 to 30 feet add 19% per side
If 31 to 60 feet add 14% per side
If 61 to 100 feet add 9% per side

Total GPM with exposures	Add 50% for each floor above ground floor	# of floors	Total to add for floors above	Sub-total with floors added	If wood shingles on roof add 500 GPM
1000.00	500	0	0.00	1000.00	0
					1000.00

FIRE FLOW NEEDED GPM
<u>1000.00</u>

Structure Name Pope Farm Bulk barns - 16 barns -
 Structure Address _____
8 ea side of shelter
ea 1000 gpm

Length	Width	Sq Ft	Sq Root	X 18	X construction type	GPM sum 1	X Occupancy	GPM sum 2
40	10	400	20.00	360.00	1.5	540.00	1.15	621.00

Exposure % add	Exposure add GPM	Exposure per side (75% max) Total Side A	Exposure per side 75% max Side B	Exposure per side 75% max Side C	Exposure per side 75% max Side D	Total GPM with exposures
25%	155.25	118	118	118	0	875.00
19%	117.99		0			
14%	86.94					
9%	55.89					
75%	465.75	Total A, B, C, D				
	MAX	354	Column J, K, L and M			

Round off to nearest 250 GPM for flows less than 2500 GPM, the nearest 500 GPM over 2500 GPM

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Fire Resistive 0.6
Non-combustible 0.8
Ordinary 1
Wood Frame 1.5

Column H
.75 If Mostly non-combustible contents
.85 If Limited combustibles (apartments, churches, schools, hospitals)
1.0 If Mostly combustible (restaurants, sheds, garages)
1.15 If Free burning contents (post offices, horse stables, feed mills, repair garages, ag storage)
1.25 If Rapid burning (aircraft hangers, tires, flammable liquids, wood working)

FIRE FLOW NEEDED GPM
<u>1000.00</u>

Total GPM with exposures	Add 50% for each floor above ground floor	# of floors	Total to add for floors above	Sub-total with floors added	If wood shingles on roof add 500 GPM
1000.00	500	0	0.00	1000.00	0
					1000.00

Structure Name Pope Farm - Garage/Storage.
 Structure Address 5333 Clark's Neck Rd.

Length	Width	Sq Ft	Sq Root	X 18	X construction type	GPM sum 1	X Occupancy	GPM sum 2
80	40	3200	56.57	1018.23	1.5	1527.35	1.15	#####

Exposure % add	Exposure add GPM	Exposure per side (75% max) Total Side A	Exposure per side 75% max Side B	Exposure per side 75% max Side C	Exposure per side 75% max Side D	Total GPM with exposures
25%	439.11	0	0	0	158	1914.45
19%	333.73		0			
14%	245.90					
9%	158.08					
75%	1317.34	Total A, B, C, D				
	MAX	158				

Column F
Fire Resistive 0.6
Non-combustible 0.8
Ordinary 1
Wood Frame 1.5

Column H
.75 If Mostly non-combustible contents
.85 If Limited combustibles (apartments, churches, schools, hospitals)
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If 31 to 60 feet add 14% per side
If 61 to 100 feet add 9% per side

Round off to nearest 250 GPM for flows less than 2500 GPM the nearest 500 GPM over 2500 GPM

Total GPM with exposures	Add 50% for each floor above ground floor	# of floors	Total to add for floors above	Sub-total with floors added	If wood shingles on roof add 500 GPM
2000.00	1000	0	300.00	2300.00	0
					2300.00

FIRE FLOW NEEDED GPM
2300.00

Structure Name Bulk Barns 16 + Shelter
 Structure Address 5333 Charles Webb

Length	Width	Sq Ft	Sq Root	X 18	X construction type	GPM sum 1	X Occupancy	GPM sum 2
130	110	14300	119.58	2152.49	1.5	3228.73	1.15	3713.04

Exposure % add	Exposure add GPM	Exposure per side (75% max) Total Side A	Exposure per side 75% max Side B	Exposure per side 75% max Side C	Exposure per side 75% max Side D	Total GPM with exposures
25%	928.26	928	0	0		6903.04
19%	705.48	928				
14%	519.83	334				
9%	334.17					
75%	2784.78	Total A, B, C, D				
	MAX	2190				

Column F
Fire Resistive 0.6
Non-combustible 0.8
Ordinary 1
Wood Frame 1.5

Column H
.75 if Mostly non-combustible contents
.85 if Limited combustibles (apartments, churches, schools, hospitals)
1.0 if Mostly combustible (restaurants, sheds, garages)
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Round off to nearest 250 GPM for flows less than 2500 GPM, the nearest 500 GPM over 2500 GPM

Total GPM with exposures	Add 50% for each floor above ground floor	# of floors	Total to add for floors above	Sub-total with floors added	If wood shingles on roof add 500 GPM
6000.00	3000	0	0.00	6000.00	0 6000.00

FIRE FLOW NEEDED
GPM
6000.00