DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

PAGE 1

Sheet ___ of ___
PROPERTY ID #: 133585
COUNTY: 4776-61-4883

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Applicant
OWNER: William Sherman Skinner
ADDRESS: 210 E Bell ST Statesville NC 28677
PROPOSED FACILITY: 3BR House PROPOSED DESIGN FLOW (.1949): 360
LOCATION OF SITE: Swann Crossville exit 72
APPLICATION DATE 1-26-06
DATE EVALUATED: 2-21-06
PROPERTY SIZE: 1.843 AC
PROPERTY RECORDED: YES
WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☒ Auger Boring ☒ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	8% L	0-10"	scl wk sr	f nonp nonp	few sep inclusions scl 50%	74"			PS .3
		10-45"	RED C mod sbk	f ss sp slep					
		45-48"	RED CL mod sbk	f ss sp slep					
2	6% L	0-15"	scl wk sr	f nonp nonp	10yr 6/6 @ 24" 10yr 5/8 @ 30"	few sep inclusions 36-48" @ 50% yellow/BR mottles			PS .25
		15-48"	C mod sbk	f ss sp slep					
					10yr 6/6 @ 36-40" 10yr 5/8 @ 36-40"	yellow BROWNS			
3	6% L	0-15"	scl wk sr	f nonp nonp	10yr 7/8 10yr 5/4 10yr 6/6	18"-32"			PS .25
		15-42"	C mod sbk	f ss sp slep					
		42-48"	C mod sbk	f ss sp slep					
4	18% L	0-12"	scl wk sr	f nonp nonp		18"	US		US
		12-18"	C mod sbk	f ss sp slep					
		18-60"	CL saprolite 2-3" C		US SAPROLITE white saprolite looks like chroma 2 but is US SAPROLITE				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	YES	YES
System Type(s)	LPP 50%	LP 50%
Site LTAR	.25	.25

OTHER FACTORS (.1946): US saprolite PIT
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: L. Cook
OTHER(S) PRESENT: Shea Hendrick

COMMENTS:

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)			SEXP (Slightly Expansive)	M (Massive)
D (Drainage Way)					EXP (Expansive)	CR (Crumb)
DS (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
FP (Flood Plain)		L (Loam)				SBK (Subangular Blocky)
FS (Foot Slope)						ABK (Angular Blocky)
H (Head Slope)	III	Si (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
L (Linear Slope)		SiCL (Silty Clay Loam)				PR (Prismatic)
N (Nose Slope)		CL (Clay Loam)				
R (Ridge)		SCL (Sandy Clay Loam)				
S (Shoulder Slope)		SiL (Silt Loam)				
T (Terrace)						
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05		
		SiC (Silty Clay)				
		C (Clay)				
		O (Organic)	None	None		

MOIST	WET
VFR (Very Friable)	NS (Non-sticky)
FR (Friable)	SS (Slightly Sticky)
FI (Firm)	S (Sticky)
VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
EFI (Extremely Firm)	NP (Non-plastic)
	SP (Slightly Plastic)
	P (Plastic)
	VP (Very Plastic)

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

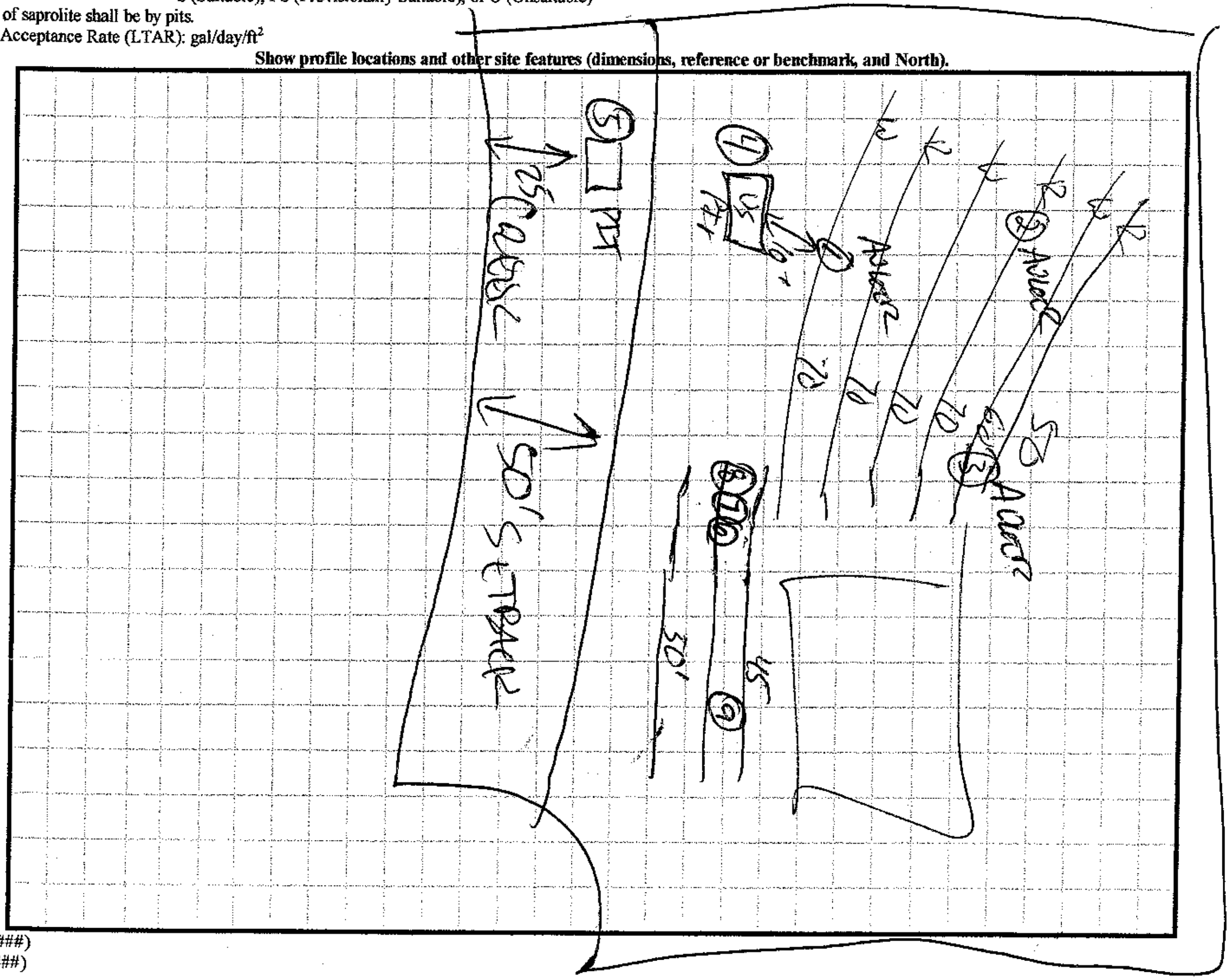
NOTES

HORIZON DEPTH	In inches below natural soil surface
DEPTH OF FILL	In inches from land surface
RESTRICTIVE HORIZON	Thickness and depth from land surface
SAPROLITE	S(suitable) or U(unsuitable)
SOIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
CLASSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft^2

Show profile locations and other site features (dimensions, reference or benchmark, and North).



DENR (######)
Review (#####)

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Sheet ____ *of* ____
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SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: _____ APPLICATION DATE _____
ADDRESS: _____ DATE EVALUATED: _____
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____
LOCATION OF SITE: _____ PROPERTY RECORDED: _____
WATER SUPPLY: ☐ Private ☐ Public ☐ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☐ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: ☐ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
5	20% L	[redacted]-12"	scl wk gr	frs sp sap	PIT [redacted] TO CLOSE TO CREEK				US SETBACK TO CREEK
		12-40"	cmpd sbk	frss sp sap					
		40-60"	saprolite		3" ROCK LAYER AT 40"				
6 & 7	18% L	0-10"	scl wk gr	frs sp sap					US
		10-18"	FLOATER	ROCK					
8	18% L	0-15"	scl wk gr	frs sp sap	10yr 6/6 @ 24" 10yr 5/8 @ 30" (pocket)		yellow	Browns	PS .25
		15-48"	cmpd sbk	frss sp sap	10yr 6/6 @ 36-45" 10yr 5/8 @ 36-45" few sap inclusions < 50% 36-48"		yellow Browns		
		[redacted]	[redacted]	[redacted]					
9	15% L	0-12"	scl wk gr	frs sp sap		>40"			PS .3
		12-48"	cmpd sbk	frss sp sap					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	YES	YES
System Type(s)	LPP 50% RED	LPP 50%
Site LTAR	.25	.25

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: _____
OTHER(S) PRESENT: _____

COMMENTS: _____

LEGEND

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	II	SL (Sandy Loam) L (Loam)	0.8 - 0.6	0.4 - 0.3		
	III	Si (Silt) SiCL (Silty Clay Loam) CL (Clay Loam) SCL (Sandy Clay Loam) SiL (Silt Loam)	0.6 - 0.3	0.3 - 0.15		
	IV	SC (Sandy Clay) SiC (Silty Clay) C (Clay)	0.4 - 0.1	0.2 - 0.05		
		O (Organic)	None	None		

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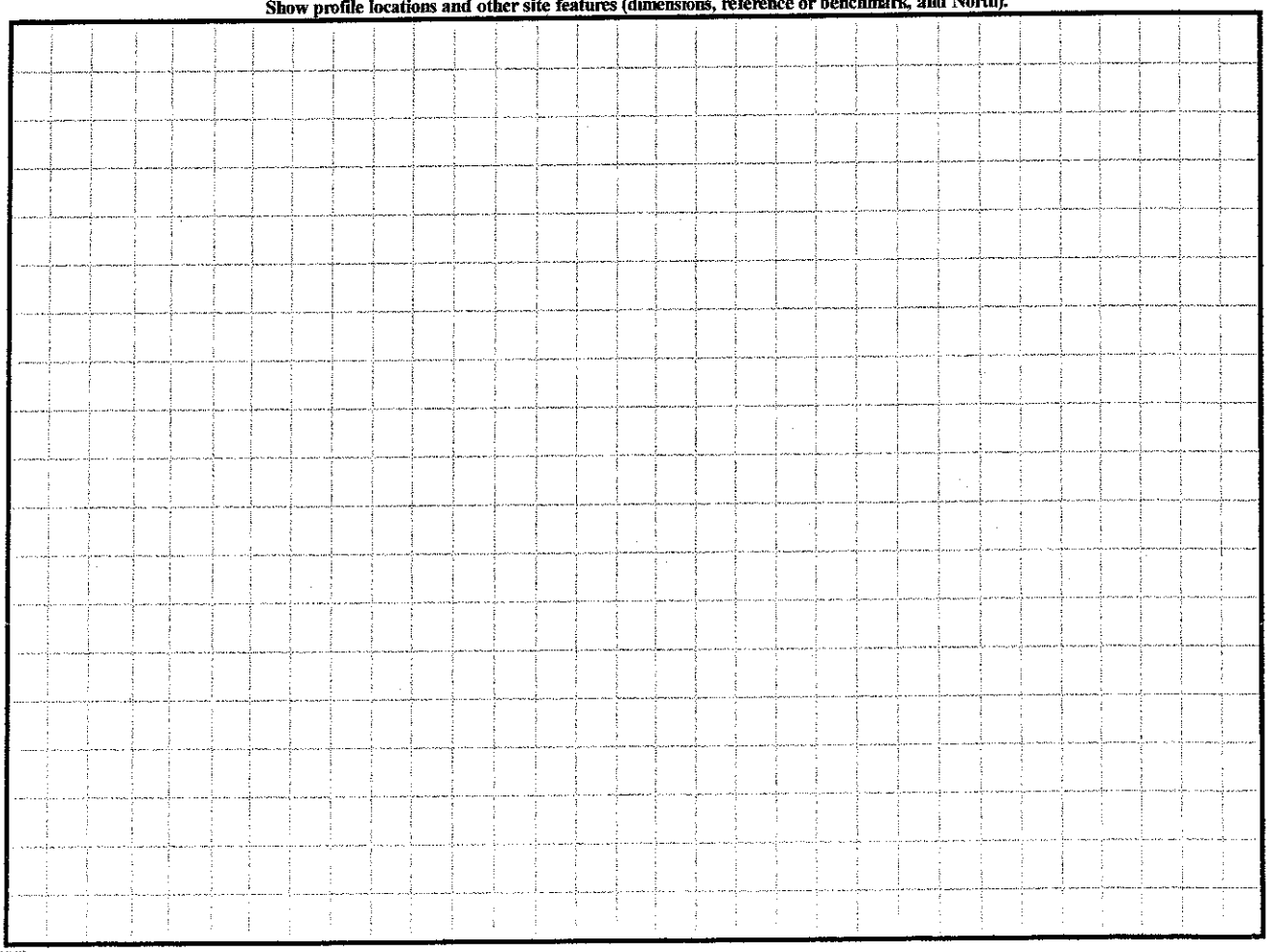
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