DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 3
PROPERTY ID #: 216002
COUNTY: IREDELL

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: ERNEST BEAVER — APPLICATION DATE 1/14/16
ADDRESS: 166 IREDELL CO. — DATE EVALUATED: 1/30/16
PROPOSED FACILITY: SFR — PROPOSED DESIGN FLOW (.1949): 480 GPD. — PROPERTY SIZE: 4.450 ACRE
LOCATION OF SITE: 158 BENFIELD RD. STATESVILLE NC — 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) 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
A 1	TS 10%	0-7	BSCL/SBK SBK	FR, SS, SP	/	48"	F-C SAP INCL. 10-41" M SAP INCL 41-48"	/	.3
		7-41	RC, SBK	" " "					
		41-48	RCL, SBK/MASS	" " "					
A 2	LS 10%	0-2	ORGANIC		YELLOW DRAIN MOTTLES 8"-28"	48"	C SAP INCL 16"-40" C-M SAP INCL 40"-48"	/	.25
		2-7	BSCL, WABK	FR, SS, SP					
		7-28	RC, WABK	" S, P					
		28-43	RC WABK/ABK	" SS, SP					
		43-48	RCL, SBK/MASS ABK	" " "					
A 3	LS 15%	0-9	BSCL, WABK	FR, SS, SP	FEW DRAIN MOTTLES 26"-29"	42"	C-M SAP INCL. 17"-42"	/	.275
		9-31	RC, SBK/WABK	" " "					
		31-42	RCL, WABK	" " "					
		42-48	MASS SAP						
A 4	LS 10%	0-8	BSCL, WABK	FR, SS, SP	/	24"	C-M SAP INCL. 10"-24"	25"	.1 DRIP
		8-20	RC, ABK	" " "					
		20-24	RCL, ABK	" " "					
		25	AR						

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	TS	TS
System Type(s)	APPROVED	DRIP
Site LTAR	.25	.1

OTHER FACTORS (.1946): —
SITE CLASSIFICATION (.1948): TS
EVALUATED BY: SC
OTHER(S) PRESENT: —

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)			**MOIST**	**WET**
S (Shoulder Slope)		SiL (Silt Loam)				
T (Terrace)					VFR (Very Friable)	NS (Non-sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SiC (Silty Clay)			FI (Firm)	S (Sticky)
		C (Clay)			VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None	None	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.

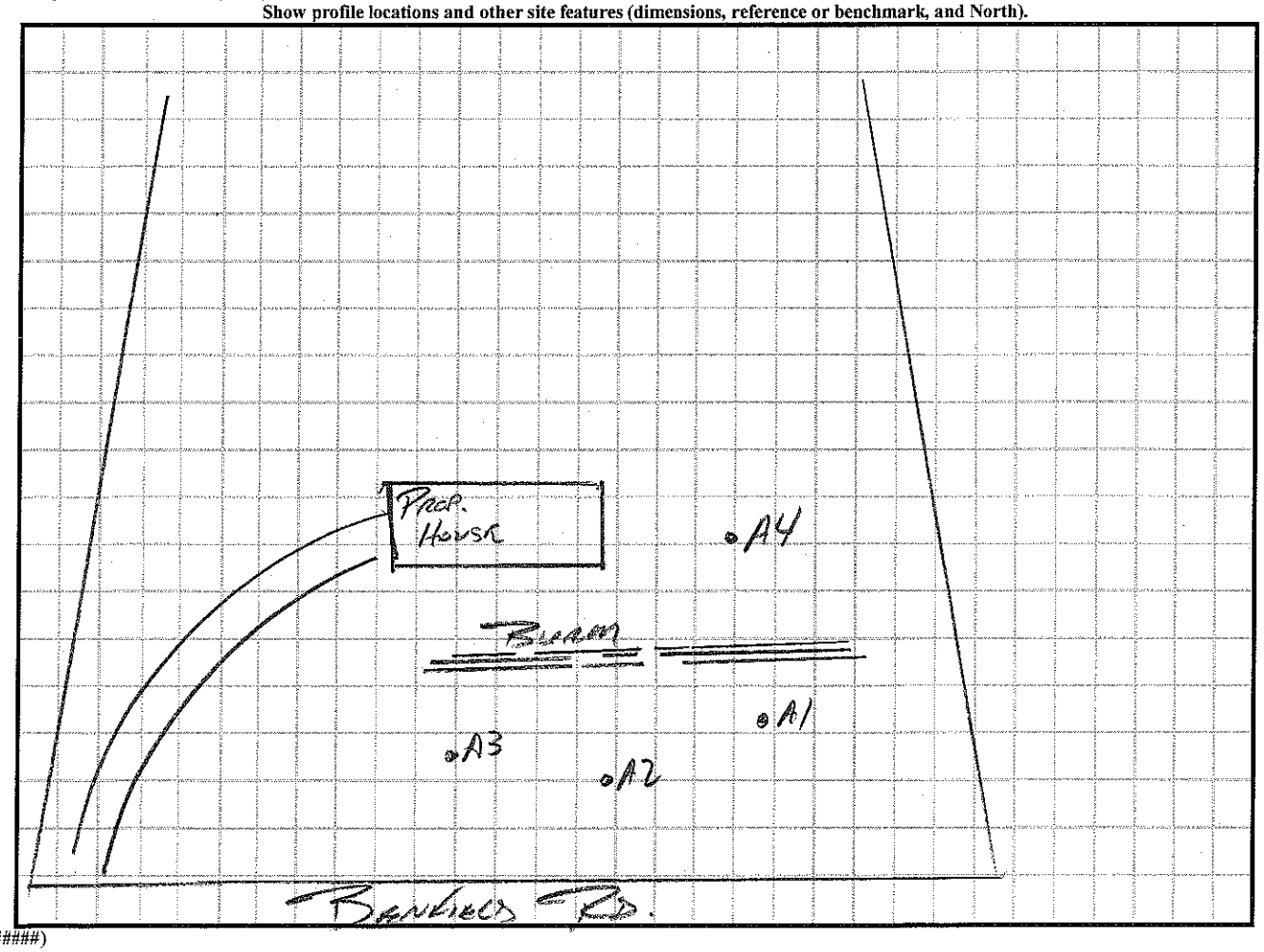
NOTES

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

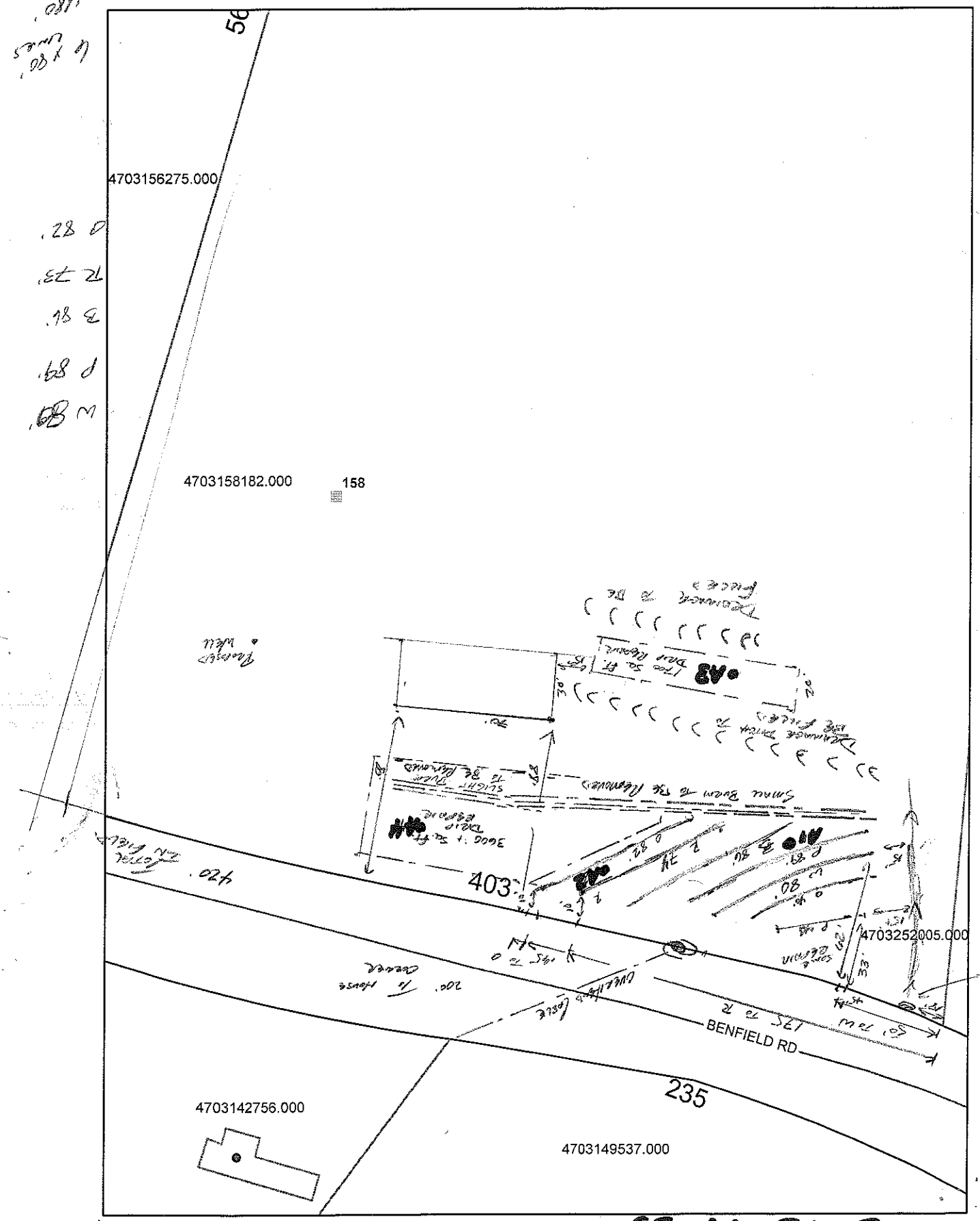
Show profile locations and other site features (dimensions, reference or benchmark, and North).



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

1 inch = 60 feet

1:720



* Soil Notes *

3/3

* Soil Notes *

					TRH		
0-8	TBSCL, WSBK	FR, SS, SP	C-M SPP INCL	24"	25"	0 / DRIP.
8-20	TRL, ABK	" " "				
20-24	TRL, ABK	" " "	10"-24"			
25"	AR					

DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 4 of 5
PROPERTY ID #: 8182
COUNTY: iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Chris Hagar APPLICATION DATE 3/21/16
ADDRESS: 242 Scotts Creek Rd. Statesvillle NC DATE EVALUATED:
PROPOSED FACILITY: SFR PROPOSED DESIGN FLOW (.1949): 480 GPD PROPERTY SIZE: 4.45 acre
LOCATION OF SITE: 158 Benfield Rd. Statesville NC PROPERTY RECORDED:
WATER SUPPLY: ☐ Private ☐ Public X Well ☐ Spring ☐ Other
EVALUATION METHOD: XAuger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: XSewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
B1	NS/FS 5%	0-6	BSCL GR	FR, SS, SP, SEXP	CHROMA 3 @ 36"	48"	X	X	.225
		6-36	YRCL FABK	FR, SS, SP, SEXP					
		36-48	YBC FABK	FR, SS, SP, SEXP					
B2	NS 5%	0-6	BSCL GR	FR, SS, SP, SEXP	CHROMA 3'S CHROMA 2'S 43"+	48"	X	43"	.225 TO 38"
		6-37	YRC WFABK	FR, SS, SP, SEXP					
		37-45	RC WFABK	FR, SS, SP, SEXP					
B3	NS 5%	0-12	BSCL GR	FR, SS, SP, SEXP	C YB'S CHROMA 2 38"+	42"	C Fe	38"	.225 TO 38"
		12-18	YBSC WFABK	FR, SS, SP, SEXP					
		18-30	SBC WFABK	FR, SS, SP, SEXP					
		30-40	YRC WFABK	FR, SS, SP, SEXP					
		40-42	YBC WFABK	FR, SS, SP, SEXP					
B4	LSS 5%	0-20	BSCL GR	FR, SS, SP, SEXP	F-C YB'S 33"+ FEW CHROMA 3	48"	X	X	.25 TO 33" .225 TO 48"
		20-43	BC WFABK	FR, SS, SP, SEXP					
		43-48	YBC WFABK	FR, SS, SP, SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	25%	25%
Site LTAR	.225	.25

OTHER FACTORS (.1946): X
SITE CLASSIFICATION (.1948):PS

EVALUATED BY: ADRIAN PRUETT; SHANE CASHION
OTHER(S) PRESENT:X

COMMENTS:
BORINGS B1-B6 BY ADRIAN PRUETT. BORINGS A1-A4 BY SHANE CASHION

SOIL/SITE EVALUATION

(Continuation Sheet)

Sheet ____ of ____

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: _____
DATE OF EVALUATION: _____
COUNTY: _____

PROFILE	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
B5	LSS 10%	0-14	BSL GR	FR, SS, SP, SEXP	C YB CHROMA 2 @ 46"	48"	X	46"	.25 TO 36" .225 TO 46"
		14-36	YRSC WFSBK	FR, SS, SP, SEXP					
		36-48	YBC WFSBK	FR, SS, SP, SEXP					
B6	LSS 7%	0-8	BSL GR	FR, SS, SP, SEXP	CHROMA 2 @ 37"+ FEW CHROMA 3	40"	X	37"	.225 TO 37"
		8-20	YRC WFABK	FR, SS, SP, SEXP					
		20-36	YRC WFABK	FR, SS, SP, SEXP					
		36-40	YBC WFABK	FR, SS, SP, SEXP					

COMMENTS: _____

LEGEND

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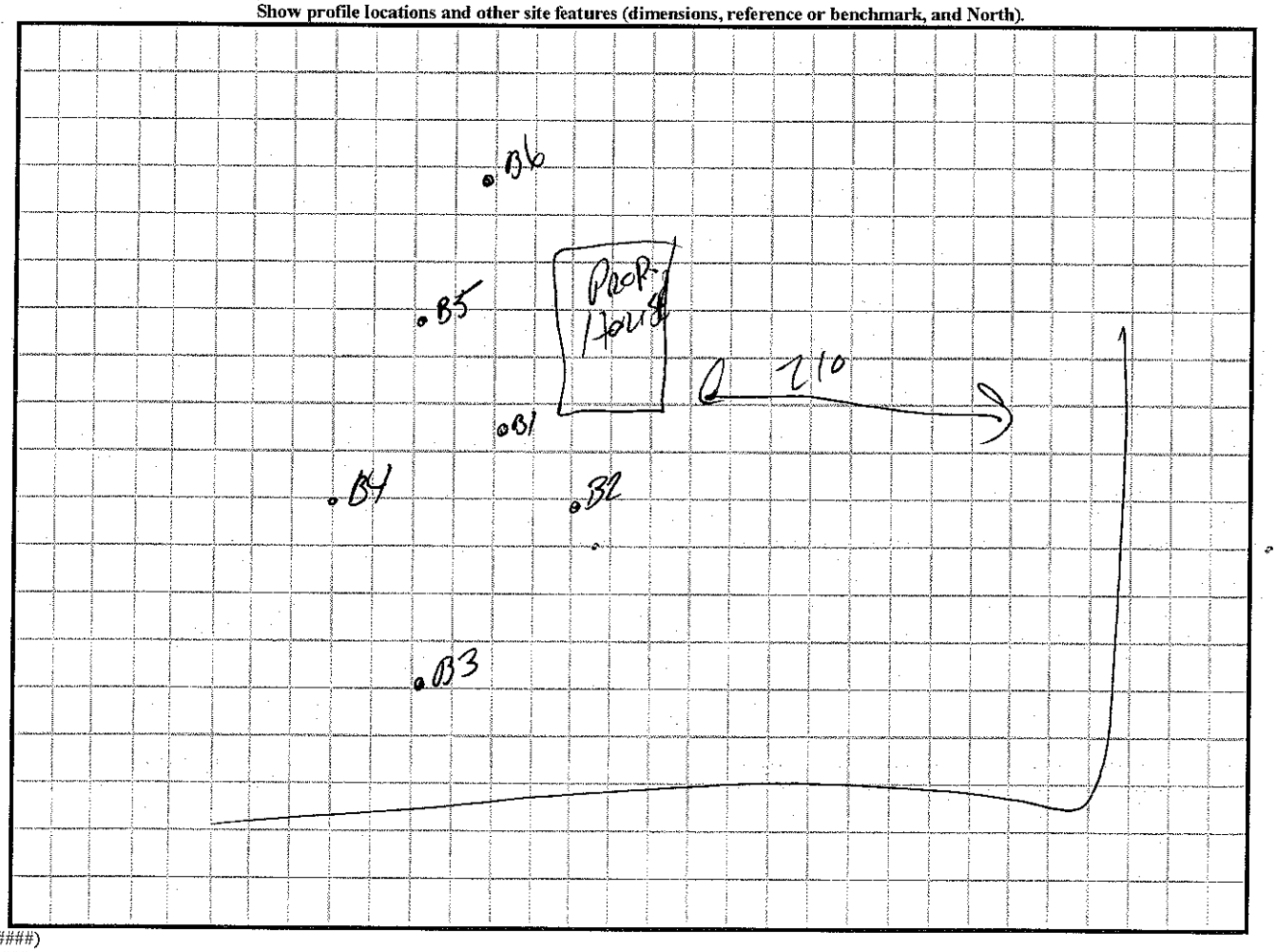
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