ICHD

* Call Prior for Site Visit

Penninger Soil Consulting, PLLC
595 JM Penninger Road
Lexington, NC 27292
Ph: 704-996-6330 Email: pgpenninger@gmail.com

June 24, 2015

Harris Construction Group
9935D Rey Road, #210
Charlotte, North Carolina 28277

Attention: Mr. Bob Volles

Reference: **Technical Assistance with Septic Permitting**
Lot 379 The Farms Subdivision
Iredell County, North Carolina
Project No. 15-107

Dear Mr. Volles:

Penninger Soil Consulting, PLLC has provided technical assistance to obtain a possible new 4-bedroom septic system Improvement Permit on the above referenced lot from the Iredell County Health Department (ICHD). The technical assistance was performed in general accordance with our written proposal dated June 15, 2015.

Lot 379 was issued a 4-bedroom gravity, 25 Percent Reduction Improvement Permit by the ICHD in 2004. This permit has expired and you have requested Penninger Soil Consulting, PLLC to assist with a obtaining a new Fast Track ICHD Improvement Permit for a similar system and similar house pad.

We described four pits and hand auger borings in the proposed septic area and flagged a proposed 25 Percent Reduction gravity primary system as shown on the attached site plan. The proposed system is in the same general location and utilizes the same Long Term Acceptance Rate as the 2004 ICHD permitted system. The site plan shows a possible future pool area if your home buyers want a pool. Your surveyor staked the property corners.

Once the septic area is permitted, it should be fenced off for protection during home construction. Access to the lot should only be by the proposed drive. There shall not be cuts of 2 feet or greater within 15 feet of any part of the permitted septic system. The future pool should be at least 15 feet from the septic tank and drainfield.

Penninger Soil Consulting, PLLC appreciates the opportunity to provide these services to you. The attached information is not an Improvement Permit or Authorization to Construct, and is only to assist you with the Fast Track site evaluation. The ICHD may show any changes or modifications they want to the proposed system on the permit or attached site

plan. The ICHD must approve each lot and only the ICHD can issue these permits. The ICHD should verify all soils and system specifications, required setbacks, and whether a professional engineer plan is required before permitting and/or septic system installation. Soil evaluations and system layouts are done based on interpretations of the rules governing wastewater treatment and disposal systems and are not guarantees for site approval or future septic system performance.

If you have any questions or require additional information please contact us at your convenience.

Sincerely,

Penninger Soil Consulting, PLLC

Paul G. Penninger, L.S.S.
Soil Scientist

Attachments:

1. Septic Permit Application and Zoning Permit
2. Proposed Site Plan and System Information
3. 2004 ICHD Septic Permit

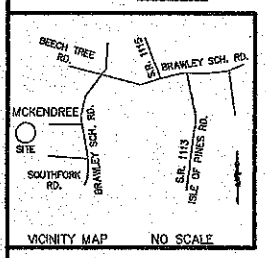
C:\Users\Paul G. Penninger\Documents\2015 Projects\15-107 Harris Construction Group - Farms 434 and 379\Farms 379\Harris Const Group The Farms Lot 379 FT Summary Letter.doc

DAS

DON ALLEN & ASSOCIATES, P.A.
"Since 1971"
Commercial * Residential * Mortgage Surveys * Multi-Family
Construction Staking * Subdivision Design * Topographical
131 Crosslake Park Drive - Suite 102 * Mooresville * NC * 28117
(704) 664-7029 (704) 664-8041 Fax

I, certify that this map was drawn under my supervision from an actual survey made under my supervision recorded in deed book 2308, page 1841, and/or plat book 45, page 114, that the ratio of precision is 1':10,000, that this map was prepared in accordance with the General Statutes of North Carolina Chapter 89C. my hand and seal on the 26, day of JUNE, A.D. 20 15.

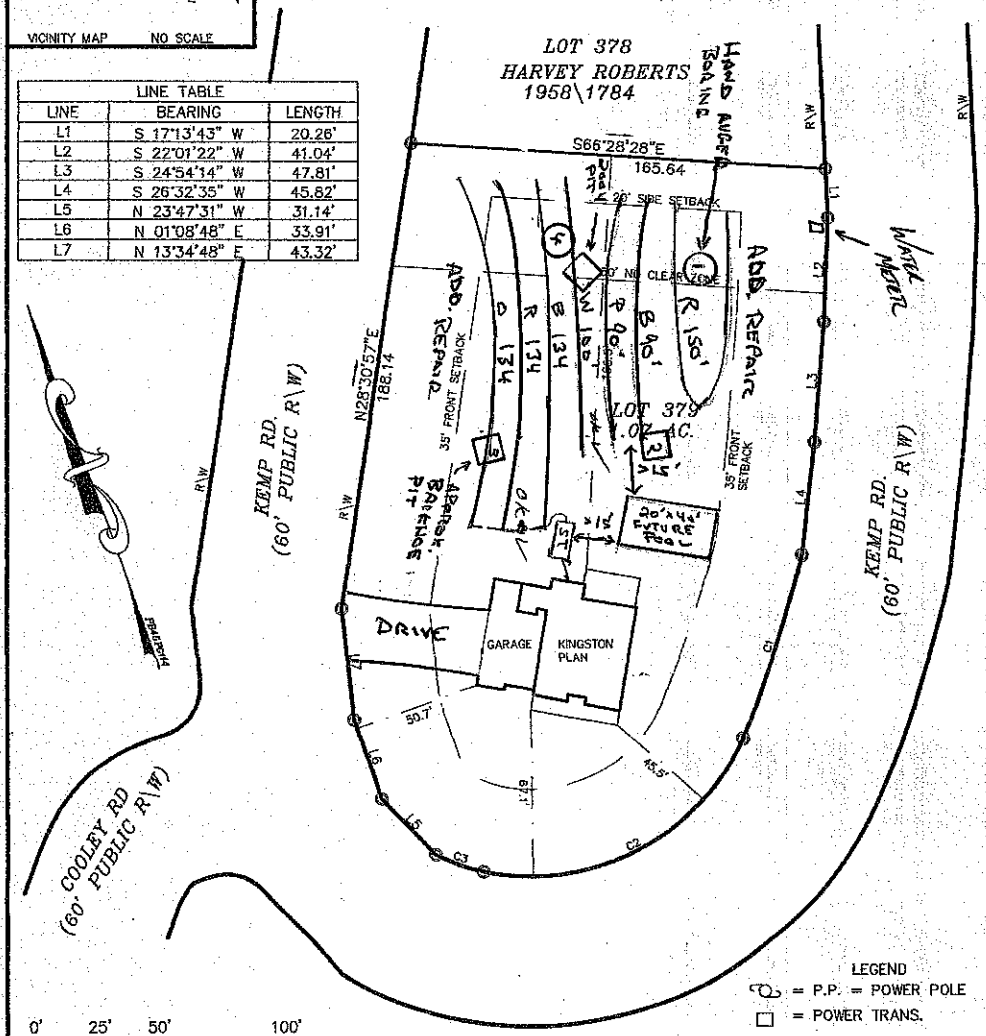
WILLIAM M. ALLEN, PLS



VICINITY MAP NO SCALE

CURVE TABLE				
CURVE	RADIUS	LENGTH	BEARING	CHORD
C1	440.93'	75.80'	N 38°12'34" E	75.71'
C2	91.97'	126.33'	N 82°29'05" E	116.63'
C3	75.51'	20.17'	S 50°30'46" E	20.11'

LINE TABLE		
LINE	BEARING	LENGTH
L1	S 17°13'43" W	20.26'
L2	S 22°01'22" W	41.04'
L3	S 24°54'14" W	47.81'
L4	S 26°32'35" W	45.82'
L5	N 23°47'31" W	31.14'
L6	N 01°08'48" E	33.91'
L7	N 13°34'48" E	43.32'



0' 25' 50' 100'
SCALE IN FEET

LEGEND
= P.P. = POWER POLE
= POWER TRANS.
E.I.P. = EXISTING IRON FOUND
I.P.S. = #4 REBAR SET
R/W = RIGHT-OF-WAY

REVISED - PLOT PLAN SURVEY
OF
LOT 379 THE FARMS PHASE 3 MAP 1
SCALE 1" = 50' DAVIDSON TWSP., IREDELL CO., N.C.
ACQUIRED BY: CYRAS CUSTOM HOMES

FIELD BOOK:
FILE: FARMS 379
DC FILE:
TAX MAP NO: 4826355248

APPROVED JUL 08 2015

6-29-15

HARRIS CONSTRUCTION GROUP SEPTIC SITE PLAN

* MUST ACCOMPANY PENNINGTON SOIL CONSULTING, PLLC WRITTEN REPORT DATE 6-24-15.

The Farms Lot 379 Fast Track System Specifications (June 24, 2015)
Harris Construction Group

Number of Bedrooms	4
Basement or Crawl	**Crawl/Slab Garage**
Design Flow (gpd)	480
LTAR (gpd/ft2)	0.3
Primary System Type	**Gravity 25 Percent Reduction**
No. Lines	3 at 134 ft. (See Site Plan)
Total Linear Feet	402
Trench Width	3' min.
Trench Spacing	9' min.
Pump Required	No
Distribution Device	Drop Boxes (can use other approved devices such as D-Box)
Maintenance Agreement Required	No
Repair System	**25 Percent Reduction**
Total Linear Feet	430 ft shown (400 required)
Repair LTAR	0.3

Note: **Installer and ICHD shall verify all line locations, tank locations, and elevations prior to installation.**
System is to be installed according to ICHD Permit requirements or policies.
These specifications are to satisfy the ICHD Fast Track LSS checklist and are not intended to represent an Engineered System Design.
Use trench depth on ICHD IP.

- USE Minimum 1000 Gal. TANK.

SL

- 36" TRENCH BOTTOM

SL

APPROVED ... 18 2015

OR

APPROVED JUL 08 2015

SL

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

Sheet 1 of 1
PROPERTY ID #:
COUNTY:

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
(Complete all fields in full)

OWNER: HARRIS Const. Group
ADDRESS: 270 Kent
PROPOSED FACILITY: House PROPOSED DESIGN FLOW (.1949): 480
LOCATION OF SITE: Lot 379 Fads
WATER SUPPLY: Private Public Well Spring Other
EVALUATION METHOD: Auger Boring Pit Cut

APPLICATION DATE 6-24-1
DATE EVALUATED: 6-18-1
PROPERTY SIZE: 1.07 ac
PROPERTY RECORDED: 2039

TYPE OF WASTEWATER: Sewage Industrial Process Mixed

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
1	L 1 ~5	0-4	wsgrsl	fr ss/sp	br				PS .3+ ok SL
		4-18	mssbkc	fr ss/ss	red				
		18-46	m-wssbk	cl fr ss/ss	< red f c sap	f quartz 36+			
						48			
2	L ~10	0-4	wsgrsl	fr ss/ss	br				PS .3+
		4-18	mssbkc	fr ss/ss	red				
		18-60	wssbkcl	fr ss/ss	red f sap				
						60			
3	L ~20	0-3	vsgrsl	fr ss/sp	br				PS 1,2,3+ ok SL
		3-19	mssbk	fr ss/sp	red				
		19-50	wsgrsl	fr ss/ss	yel red c sap				
						50			
4	L ~10	0-4	wsgrsl	fr ss/sp	br red				PS .3+
		4-24	mssbk	fr s/s	red				
		24-48	wssbkcl	fr ss/ss	yel red f - c sap				
						48			

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	2S2	2S2
Site LTAR	.3	.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: PSP
OTHER(S) PRESENT: must be reviewed and approved by ICAS

COMMENTS: Few ABK in Rc

7/8/15

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

Sheet ____ *of* ____
PROPERTY ID #: _____
COUNTY: _____

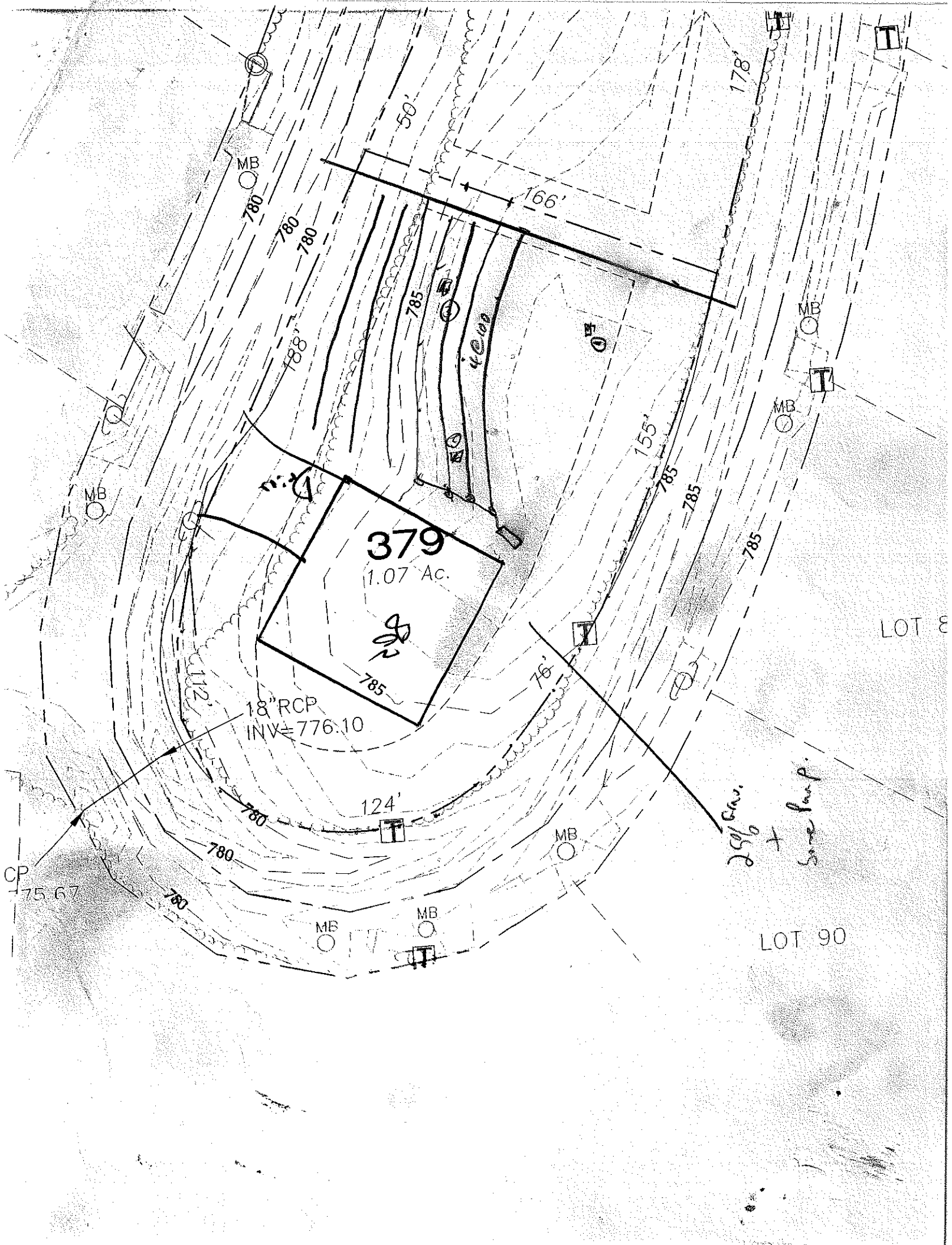
SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: _____ APPLICANT: _____
ADDRESS: _____ APPLICATION DATE: _____ DATE EVALUATED: _____
PROPOSED FACILITY: _____ PROPOSED DESIGN FLOW (.1949): _____ PROPERTY SIZE: _____
LOCATION OF SITE: 379 Farms 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
1		0-21	RC mfsgr	fri sssp scnp					PS .3
		21-56	RCL mwsgr	fri. sssp scnp	few SAP				
2		0-26	RC SMK	fri sssp scnp					PS .3
		26-62	RCL mfsgr	fri sssp scnp					
3		0-6	DSL VR	fri sssp scnp					PS .3
		6-32	RC mfsgr	fri sssp scnp					
		32-50	RCL mfsgr	fri sssp scnp					
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR		

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


379
1.07 Ac.
50'
166'
178'
188'
155'
112'
76'
124'
785
780
MB
18"RCP
INV=776.10
CP
75.67
LOT 90
LOT 8