		Permit #:
NC DEPARTMENT OF HEALTH AND HUMAN SERVICES	Division of Public Health	cretary ty Secretary for Health ssistant Secretary for Public Health
	(a2) Construction Authorization	
IMPROVEMEN	T PERMIT FOR G.S. 130A-3	35(a2)
County: PIN/Lot Identifier: Issued To:		
Property Location:		
Subdivision (if applicable)	Lot #:	Block: Section:
LSS Report Provided: Yes 📄 No 🗌		
If yes, name and license number of LSS:		
New Expansion	System Relocation	Change of Use
Proposed Structure:		
Number of bedrooms: Number of Occupants:		
		strial process
Proposed Design Daily Flow: GPD Pro		
Proposed Wastewater System Type*:		
Proposed Wastewater System Type*:		
*Please include system classification for proposed wastewater Saprolite System (initial): Yes No Saprolite Sys		5A NCAC 18A .1961 Table V(a)
Fill System (Initial): Yes No If yes, specify: New Fill System (repair): Yes No If yes, specify: New Usable Soil Depth (Initial): Usable Soil Depth (Initial): Usable Soil Depth (Initial):	Existing (when adding more tha Existing (when adding more tha	
Max. Trench Depth (Initial) [‡] : Max. Trench	Depth (Repair) [‡] :	[‡] Measured on the downhill side of the trench
Artificial Drainage Required: Yes No If yes, please spe	ecify details:	
Type of Water Supply: Private well Public well	Shared well 🗌 Municipal Supply	Spring Other:
Drainfield location meets requirements of Rule .1945: Yes Permit valid for: Five years [site plan submitted pursuant to		
Permit conditions:		
	· · · · · · · · · · · · · · · · · · ·	
Licensed Soil Scientist Print Name:		
Licensed Soil Scientist Signature: Alex Atam	8	Date:
The LSS evaluation is being submitted *See	pursuant to and meets the require attached site sketch*	ments of G.S. 130A-335(a2).
NC DEPARTMENT OF HEALTH A	ND HUMAN SERVICES • DIVISIO	N OF PUBLIC HEALTH
LOCATION: 5605 Six MAILING ADDRESS: 1632	Forks Road, Building 3, Raleigh, NC Mail Service Center, Raleigh, NC 27 • TEL: 919-707-5854 • FAX: 919-845	27609 7699-1632



This Section for Local Health Department Use Only

Initial submittal received: ______ by _____

Date Initials

G.S. 130A-335(a3) states the following:

When an applicant for an Improvement Permit submits to a local health department an Improvement Permit application, the permit fee charged by the local health department, the common form developed by the Department, and a soil evaluation pursuant to subsection (a2) of this section, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Improvement Permit includes all of the required components. If the local health department determines that the Improvement Permit is incomplete, the local health department shall notify the applicant of the components needed to complete the Improvement Permit. The applicant may submit additional information to the local health department to cure the deficiencies in the Improvement Permit. The local health department shall make a final determination as to whether the Improvement Permit is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The Department shall develop a common form for use as the Improvement Permit.

The review for completeness of this Improvement Permit was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be:

Incomplete (If box is checked, information in this section is required.)

The following items are missing:

Copies of this were sent to the LSS and the Applic	cant on		
15-0	Date		
State Authorized Agent:		Date:	
Complete			
State Authorized Agent:		Date:	

This Improvement Permit is issued pursuant to G.S. 130A-335 (a2) and (a3) using the signed and sealed LSS/LG evaluation(s) attached here. The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This permit is subject to revocation if the site plan, plat, or the intended use changes. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to evaluations, submittals, or actions from a licensed soil scientist or licensed geologist pursuant to GS 130A-335(a2).

Improvement Permit Expiration Date: _____

See attached site sketch



Permit #: _

Re-submittal of Improvement Permit

LHD USE ONLY: This IP resubmittal received:		by
	Date	Initials

The following items are being resubmitted pursuant to G.S. 130A-335(a3) for issuance of the Improvement Permit:

I, _______hereby attest that the information required to be included with this re-submittal Licensed Soil Scientist (Print Name) is accurate and complete to the best of my knowledge and that the proposed Improvement Permit meets all applicable federal, State, and local laws, regulations, rules, and ordinances.

Signature of Licensed Soil Scientist

Date

The section below is for Local Health Department use after submittal of items noted as missing above.

LHD Follow-up Completeness Review of Improvement Permit

The review for completeness of this Improvement Permit re-submittal was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be:

Date

Incomplete (If box is checked, information in this section is required.)

The following items are missing:

Copies of this were sent to the LSS and the Applicant on ____

State Authorized Agent: _____

Complete

State Authorized Agent: _____

Date: _____

Date: _____



Permit #: ____

CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)

County:
PIN/Lot Identifier:
Issued To:
Property Location:
AOWE/PE Plans/Evaluations Provided: Yes 🗌 No 🗌 If yes, name and license number of AOWE/PE:
Facility Type:
New Expansion Repair System Relocation Change of Use
Basement? Yes No Basement Fixtures? Yes No
Type of Wastewater System*(Initial)(Repair)
*Please include system classification for proposed wastewater system types in accordance with 15A NCAC 18A .1961 Table V(a)
Design Daily Flow: GPD Wastewater Strength: 🗌 domestic 🗌 high strength 🗌 industrial process
Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? 🗌 Yes 🗌 No (if yes, please provide engineering documentation)
Installation Requirements/Conditions
Septic Tank Size: gallons Total Trench/Bed Length: feet Trench/Bed Spacing: feet on center
Trench/Bed Width: inches LTAR: gpd/ft ²
Soil Cover: inches Slope Corrected Maximum Trench/Bed Depth [‡] : inches [#] Measured on the downhill side of the trench
Aggregate Depth:inches above pipeinches below pipeinches total
Pump Tank Size (if applicable): gallons Requires more than 1 pump? 🗌 Yes 🔲 No
Pump Requirements:ft. TDH vs GPM Grease Trap Size (if applicable): gallons
Distribution Method: 🗌 Serial 🗌 D-Box or Parallel 🗌 Pressure Manifold(s) 🗌 LPP 🗌 Other:
Artificial Drainage Required: Yes 🗌 No 🗌 If yes, please specify details:
Legal Agreements (If the answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.)
Multi-party Agreement Required [.1937(h)]: Yes No
Easement, Right-of-Way, or Encroachment Agreement Required [.1938(j)]: 🗌 Yes 🔲 No
Declaration of Restrictive Covenants: 🗌 Yes 🗌 No
Pre-Construction Conference Required: Yes 🗌 No 🗌
Conditions:
turin - g
The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by reference
into this permit and shall be met. Systems shall be installed in accordance with the attached system layout.
AOWE/PE Print Name: Expiration Date:
AOWE/PE Signature: Date:
This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).

See attached site sketch



Permit #:

This Section for Local Health Department Use Only

Initial submittal received: ______ by

Date Initials

G.S. 130A-335(a5) states the following:

When an applicant for a Construction Authorization, or an Improvement Permit and Construction Authorization together, submits a Construction Authorization, or an Improvement Permit and Construction Authorization application together, the permit fee charged by the local health department, the common form developed by the Department, and any necessary signed and sealed plans or evaluations conducted by a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Construction Authorization or Improvement Permit and Construction Authorization includes all of the required components. If the local health department determines that the Construction Authorization or Improvement Permit and Construction Authorization is incomplete, the local health department shall notify the applicant of the components needed to complete the Construction Authorization or Improvement Permit and Construction Authorization. The applicant may submit additional information to the local health department to cure the deficiencies in the Construction Authorization or Improvement Permit and Construction Authorization. The local health department shall make a final determination as to whether the Construction Authorization or Improvement Permit and Construction Authorization is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The applicant may apply for the building permit for the project upon the decision of completeness of the Construction Authorization or Improvement Permit and Construction Authorization by the local health department or if the local health department fails to act within five business days. The Authorized On-Site Wastewater Evaluator or licensed engineer submitting the evaluation pursuant to this subsection may request that the local health department revoke or suspend the Construction Authorization or Improvement Permit and Construction Authorization for cause. Upon written request of the Authorized On-Site Wastewater Evaluator or licensed engineer, the local health department shall suspend or revoke the Construction Authorization or Improvement Permit and Construction Authorization pursuant to G.S. 130A-23. The Department shall develop a common form for use as the Construction Authorization.

The review for completeness of this Construction Authorization was conducted in accordance with G.S. 130A-335(a5). This

Construction Authorization is determined to be:

Incomplete (If box is checked, information in this section is required.)							
The following items are missing:							
Copies of this were sent to the AOWE/PE and the Applicant on	Date	AV781					
State Authorized Agent:		Date:					
Complete		518					
State Authorized Agent:		Date of Issuance:					

This Construction Authorization is issued pursuant to G.S. 130A-335(a2) and (a5) using the signed and sealed plans or evaluations attached here. This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes. The Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to plans, evaluations, preconstruction conference findings, submittals, or actions from a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator in GS 130A-335(a2), (a5), and (a7). The Department, the Department's authorized agents, and the local health departments shall be responsible and bear liability for their actions and evaluations and other obligations under State law or rule, including the issuance of the operations permit pursuant to GS 130A-337.

Construction Authorization Expiration Date: _____

See attached site sketch



Permit #:

Re-submittal of Construction Authorization

	LHD USE ONLY: This CA resubmittal received:		by						
		Date	Initials	-					
The following i	items are being resubmitted pursuant to G.S. 130A-33	5(a5) for issuance	of the Construction Author	ization:					
	22222	100000							
I,	hereby attest tha Desite Wastewater Evaluator (Print Name)	t the information	required to be included wit	th this re-submittal					
is accurate and	complete to the best of my knowledge and that the p	proposed Constru	ction Authorization meets	all applicable					
federal, State, a	and local laws, regulations, rules, and ordinances.								
Sianatu	are of Authorized On-Site Wastewater Evaluator	<u> </u>	Date						
orginata									
	The section below is for Local Health Department use	after submittal of	items noted as missing above	•					
LHD Follow-	up Completeness Review of Construction Au	uthorization							
	completeness of this Construction Authorization re-su on Authorization is determined to be:	ubmittal was conc	ducted in accordance with (5.S. 130A-335(a5).					
Incomplete	(If box is checked, information in this section is requir	red.)							
The following it	tems are missing:								
	SSE QUAN	N VIDER							
Copies of this w	were sent to the AOWE/PE and the Applicant on	Date	_						
State Authorize	State Authorized Agent: Date: Date:								
Complete									
State Authorize	ed Agent:		Date:						

Adams Soil Consulting, PLLC 1676 Mitchell Road Angier, NC 27501 919-414-6761 alexadams@bcsoil.com

March 12, 2025 Project #1623

"The LSS/LG evaluation(s) attached to this application is to be used to issue an Improvement Permit in accordance with G.S. 130A-335(a2) and (a3)."

"The plans or evaluations attached to this application are to be used to issue a Construction Authorization in accordance with G.S. 130A-335 (a2), (a5), and (a6)"

RE: Wellers Knoll - Lot #71 399 Old Fashioned Way) Subdivision NC (Harnett County) for Davidson Homes (PIN# 0529-87-8396)

To whom it may concern:

Adams Soil Consulting (ASC) conducted a preliminary soil evaluation on the above referenced parcel to determine the areas of soils which are suitable for subsurface wastewater disposal systems (conventional & LPP). The soil/site evaluation was performed using hand auger borings during moist soil conditions based on the criteria found in the State Subsurface Rules, 15ANCAC 18E. From this evaluation, ASC is providing the attached 360 gallon/day septic design.

The suitable soils found on the subject property were relatively consistent in the initial and repair areas. The area designated for the initial/primary septic system (see attached septic plan) was found to contain soils with greater than 24 inches in depth before a restrictive horizon was encountered.

Please find the attached wastewater soil/site evaluation forms for specific soil properties found in the initial and repair areas as well as assigned soil long term acceptance rate (LTAR). Numerous soil borings were made throughout the property and representative soil profile descriptions for the primary septic field and repair area are provided. A location sketch for profile descriptions is also attached. The initial and primary septic fields were sized based on a flow rate of 360 gallons/day and utilizing Accepted Status. Any unauthorized site disturbance, filling, soil removal, or layout changes may result in the permit being revoked.

The septic installer contractor shall install the primary and repair (if needed) system on contour, see attached site plan for the primary system and repair locations. No underground utilities, water lines, or sprinkler systems shall be

placed into the initial or repair septic areas. Installation must meet all state and Harnett County regulations for septic system installation. The trenches must be installed in the same location as the site plan. If the installation is in question at the time of installation call me (Alex Adams) at 919-414-6761.

This report discusses the location of provisionally suitable soils identified on the property and does not guarantee the future function of any waste water disposal system installed.

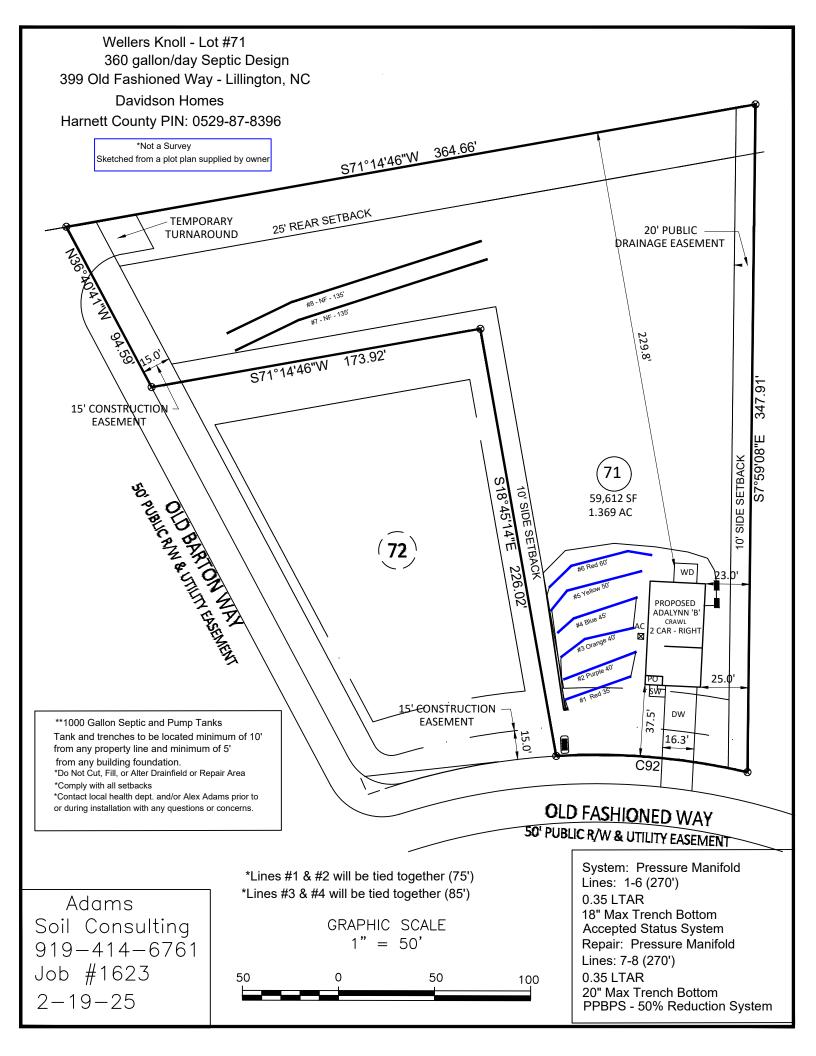
If you have any questions regarding the findings on the attached map or in this report, please feel free to contact me anytime.

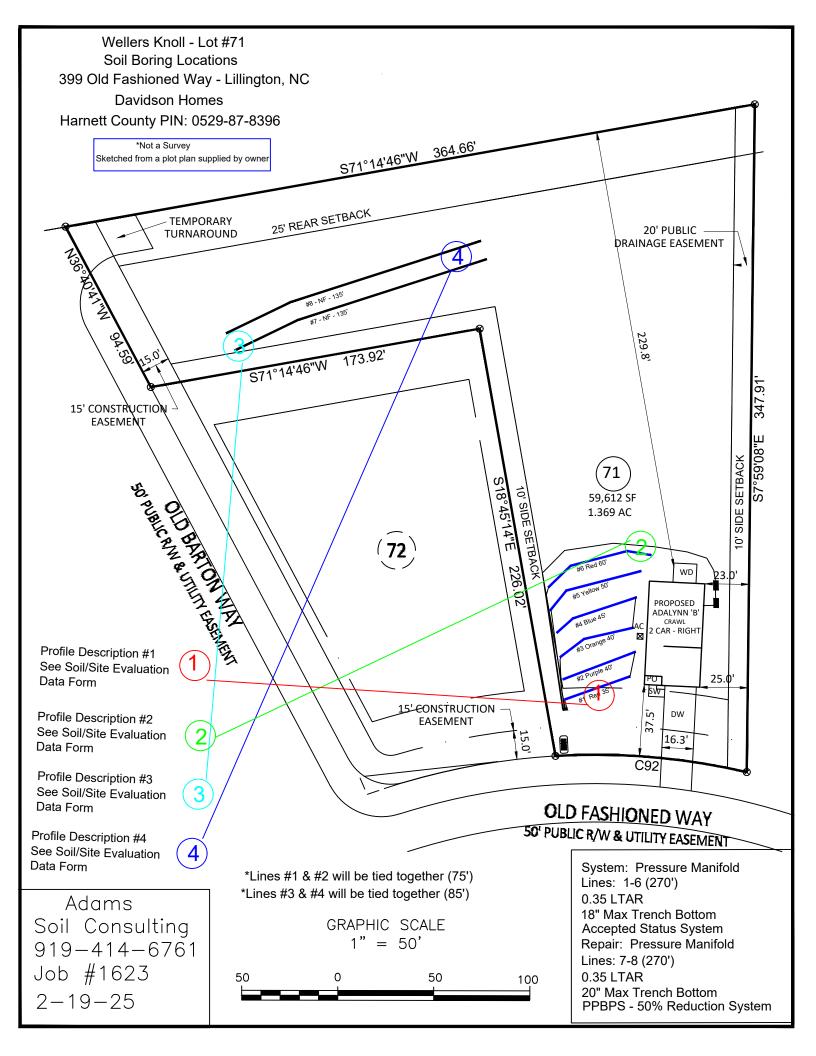
Sincerely,

Alex Adams NC Licensed Soil Scientist #1247 AOWE Certification: 10021E





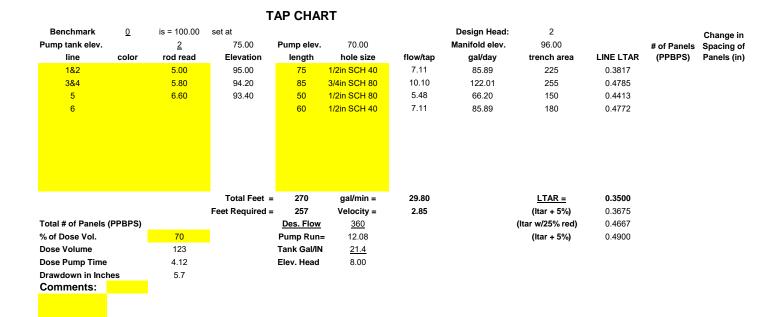




Wellers Knoll - Lot #71 PRESSURE MANIFOLD DESIGN -Initial SYSTEM

# of BDR: <u>4</u>	Daily Flow:	<u>360</u>	gal/day	L.T.A.R.:	<u>0.3500</u>	gal/day/sq.ft		
Septic Tank: 1000	gals	Pump Tank:	<u>1000</u>	gals	Sq. Foot:	<u>810</u> S	ystem Type:	Accepted
Number of Taps:	<u>3</u>	Length of T	Frenches:	<u>360</u>	ft(See Tap	Chart for Details	5)	
Depth of Trenches:	<u>18</u>	in	Man	ifold Length:	<u>36</u>	in		
Manifold Diameter:	<u>4in sch 80pv</u>	<u>c</u> .	Tap Conf	iguration: 6 in	spacing	<u>1</u> s	ide(s) of man	ifold
Supply Line: length:	<u>180</u>	ft		Diameter:	<u>2</u>	in sch 40pvc		
Friction Loss + Fittin	g Loss:	<u>5.16</u>	ft(supply	line length + 7	70' for fittin	igs in pump tank	x)	
Design Head:	<u>2</u>	ft	Elevation	Head:	<u>8.00</u>	ft		
Total Head: <u>15.16</u>	ft		Pum	np to Deliver:	<u>29.80</u>	gals/min at	<u>15.16</u>	ft head
Dosing Volume:	<u>123</u>	gals,						
Drawdown: 123	_gals divided	by	<u>21.4</u>	gals/in =	<u>5.7</u>	inches		

Simplex Control Panel required; elapsed time meter and cycle counter required; Floats to be determined by type of pump tank used. A septic tank filter is required.



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

OWNER: Davidson HomesAADDRESS: 399 Old Fashioned WayDAPROPOSED FACILITY: Single Family, 4-bedroomPROPOSED DESIGN FLOW (.1949): 480gpdLOCATION OF SITE: Lot 71 - 4399 Old Fashioned Way – Wellers KnollPIWATER SUPPLY: Public WaterEVALUATION METHOD: Auger BoringTYPE OF WASTEWATER: Sewage

APPLICATION DATE: DATE EVALUATED: 2-18-25 PROPERTY SIZE: ~1.4 Acres

	Lettine we me m		Doring		E OI WINDIEW	iiibid S	8		
P R O F I L	R O F I L L ANDSCAPE HORIZON		MORF	SOIL PHOLOGY .1941)	FA				
E #	POSITION/ DEPTH SLOPE % (IN.) STR	.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR	
	Linear	0-5	GR/LS	VFR/SEXP/NS	N/A	N/A	N.O	N.O	U/PS/.35
1	Slope/5%	3-32	GR/SCL	FR/SEXP/NS					
	Linear	0-15	GR/LS	VFR/SEXP/NS	N/A	36"	N.O	N.O	U/PS/.35
	Slope/5%	15-36	GR/SCL	FR/SEXP/NS					
2									
	Linear	0-10	GR/LS	VFR/SEXP/NS	N/A	34"	N.O	N.O	PS/.35
	Slope/5%	10-38	GR/SCL	FR/SEXP/NS					
3									
4	Linear	0-12	GR/LS	VFR/SEXP/NS	N/A	36"	N.O	N.O	U/PS/.35
	Slope/5%	12-34	GR/SCL	FR/SEXP/NS					
	DESCRIPTION	INITIAL	SYSTEM REPA	IR SYSTEM OTHER	R FACTORS (.19	946):			

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	OTHER FACTORS (.1946):
Available Space (.1945)	S	S	SITE CLASSIFICATION (.1948): U/PS
System Type(s)	Type III B	Type III B	EVALUATED BY:A. Adams OTHER(S) PRESENT:
Site LTAR	0.30	0.30	
COMMENTS:		-	

