

3125 Portia Street | P.O. Box 83581 • Lincoln, Nebraska 68501-3581 | P: 402.476.2729 • F: 402.476.6454 | www.lpsnrd.org

TO: Board of Directors

FROM: Dan Schulz, Resources Coordinator

DATE: December 7, 2018

SUBJECT: Minutes-Recreation, Forestry & Wildlife Subcommittee Meeting

The Recreation, Forestry and Wildlife Subcommittee met in the District conference room on Thursday, December 6, 2018 at 5:30PM. Members present were Chair-Sarah Wilson, Gary Aldridge, Don Jacobson, Chelsea Johnson and Ron Svoboda. Others present were Ariana Kennedy, Rick Onnen-E&A Engineering, Dan Schulz, Jay Seaton, Ray Stevens, Caleb Swanson-Project Control, Pat Wenzl-Lincoln Police Department and Paul Zillig.

The first item was the proposal for earth borrow operations and wetland construction the Lincoln Saline Wetland Nature Center. Onnen gave a presentation on the proposal explaining the location of the fill and borrow sites, why the borrow site was selected, site investigations and expected outcomes of the project. Attached is the information he went over. Onnen, Swanson and District staff provided additional information to the subcommittee member's questions.

It was moved by Jacobson, seconded by Johnson and unanimously approved to recommend that the Board of Directors approve the Lincoln Police

Department's proposal to remove fill material from the Lincoln Saline Wetland Nature Center and authorize the General Manager to enter into an agreement with the City of Lincoln subject to legal counsel review.



The second item was to review the Community Forestry Program. Wilson reviewed emails she had received from Directors Bruce Johnson and Anthony Schutz and recent comments made by the Directors. Staff provided a brief history of the program and how it evolved to the present. Seaton reviewed staff's suggestions to the program guidelines, answered questions and provided clarification on the programs mechanics. See attached Community Forestry Program – Exhibit "A" showing the suggested changes discussed. Also attached is the programs application form and cooperator agreement with changes shown.

It was moved by Svoboda, seconded by Johnson and approved to recommend that the Board of Directors adopt the changes to the program and program documents.

Voting to approve the motion were Jacobson, Johnson, Svoboda and Wilson.

Aldridge not voting.

The last agenda item was comments about NRD lakes by Aldridge. He discussed the locations of the eight flood control, public use properties the District owns and that he is developing ideas to make these properties more attractive.

Wilson informed the subcommittee members she may not be able to travel back in time for the Board meeting and with her encouragement Svoboda agreed to make the subcommittee's report to the Board if necessary.

Wilson adjourned the meeting at 6:44PM



Engineering Answers

7130 South 29th Street, Suite D • Lincoln, NE 68516-5841 P 402.420.7217 • F 402.420.7218 www.eacg.com

November 27, 2018

Board of Directors Lower Platte South NRD PO Box 83581 3125 Portia Street Lincoln, NE 68521

RE: Proposal for Earth Borrow Operations and Wetland Construction on NRD Property

Dear Board of Directors,

This proposal is being presented on behalf of the Lincoln Police Department for your consideration.

The Lincoln Police Department proposes to conduct earth borrow and grading operations designed to generate new wetlands on property owned by the Lower Platte South NRD. LPD has purchased property at 100 Oakcreek Drive for the purpose of relocating its vehicle maintenance operations from its current location at 635 J Street. Plans include an approximately 18,000 square foot expansion of the existing building on the new site. Much of the site lies within the flood plain of Salt Creek, with only the existing structure and isolated areas immediate adjacent to it elevated above the 100 year base flood elevation (BFE). Construction is estimated to require import of approximately 10,900 cubic yards of earth embankment to elevate grade for the building addition to a level above the BFE.

A study commissioned by the City of Lincoln in 2009 identified the area in the vicinity of the property as Salt Creek Storage Zone 10. The study results concluded that 40% of the flood storage within this zone could be filled without impacting the BFE. The project as proposed would be within this requirement, utilizing only 35 percent of the flood storage on site. However, the mayor's office has adopted a policy that all City projects must meet a no-net-fill condition – meaning that any displacement of flood storage due to fill must be mitigated with an equal volume of cut within the same storage zone. The only property identified within Storage Zone 10 with a potential to generate the required excavation volume was Outlot A of the Lincoln Saline Wetland Nature Center 1st Addition.

LPD's design consultants have work diligently with NRD staff to prepare an excavation plan on Outlot A. This plan serves two purposes. First, it provides the necessary excavation and borrow quantities within Storage Zone 10 to fulfill the City's no-net-rise requirement of LPD's project. Second, it will serve to expand and enhance areas of wetlands within the nature center. To that end, subsurface conductivity testing performed by UNL researcher Trenton Franz was utilized to identify areas with better potential to develop into Saline

wetlands. Geotechnical testing was conducted to identify soil and ground water conditions. A wetlands site assessment was conducted to identify areas of existing wetlands to be avoided. Results from each of the assessments was used to develop a borrow site grading plan designed to create new wetland areas. The plan also includes provisions to protect and restore areas around the excavation site, access roads, and public parking area during and following construction. Finally, the plan calls for the seeding of the borrow area with a seed mix designed by NRD staff to encourage the development of new saline wetlands.

Copies of the following site related documents are being provided for your review.

- Wetland Borrow Site Excavation Plans
- Soil Conductivity Test Results
- Geotechnical Test Report

We appreciate your consideration of this proposal and ask that you approve this request. LPD staff and their project consultants are available to address your questions and request the opportunity to present this proposal in more detail at your December sub-committee and board meetings.

Best Regards,

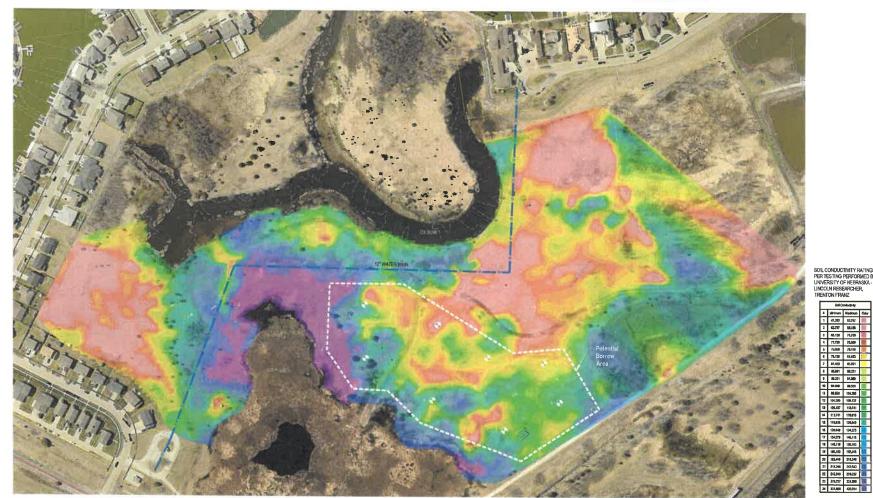
Rick Onnen

E & A CONSULTING GROUP, INC.





GROUND CONTOURS SHOWN ARE FROM 2016 CITY OF LINCOLN LIDAR SURVEY



LPD MAINTENANCE FACILITY BORROW SITE SOIL CONDUCTIVITY RATINGS PER TESTING PERFORMED BY UNIVERSITY OF NEBRASKA-LINCOLN RESEARCHER, TRENTON FRANZ

NRD WETLANDS CONSERVATION AREA SOIL CONDUCTIVITY MAP

E & A CONSULTING GROUP, INC. Engineering • Planning • Environmental & Field Services

7130 South 28th Street, Suite D. Lincoln, HE 68516-5641 Phone: 402-430 7217 Fox: 402-430,7216 WWW-88050 CCITh

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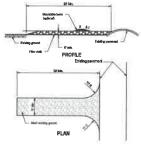
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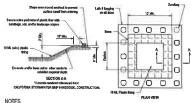
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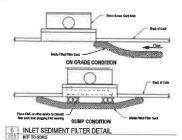
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GRADING & EROSION LEGEND

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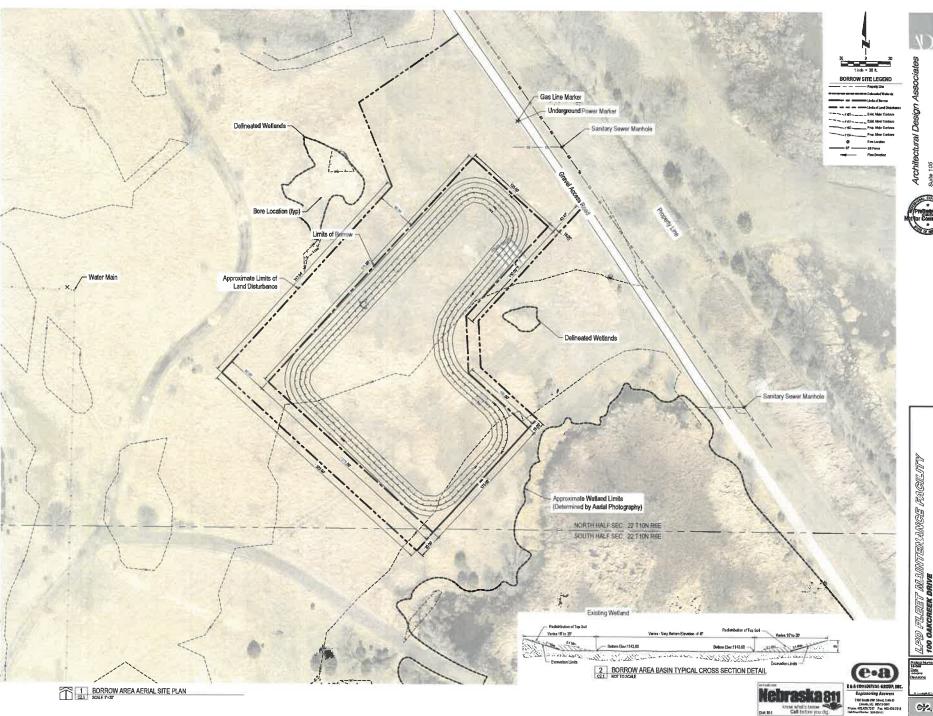
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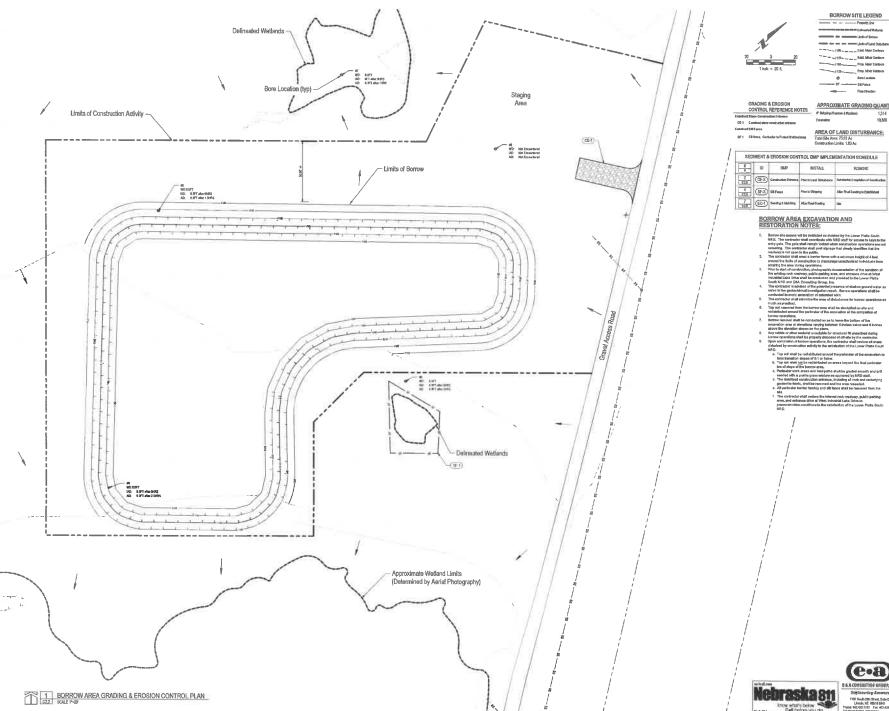
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BORROW SITE LEGEND

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Architectural

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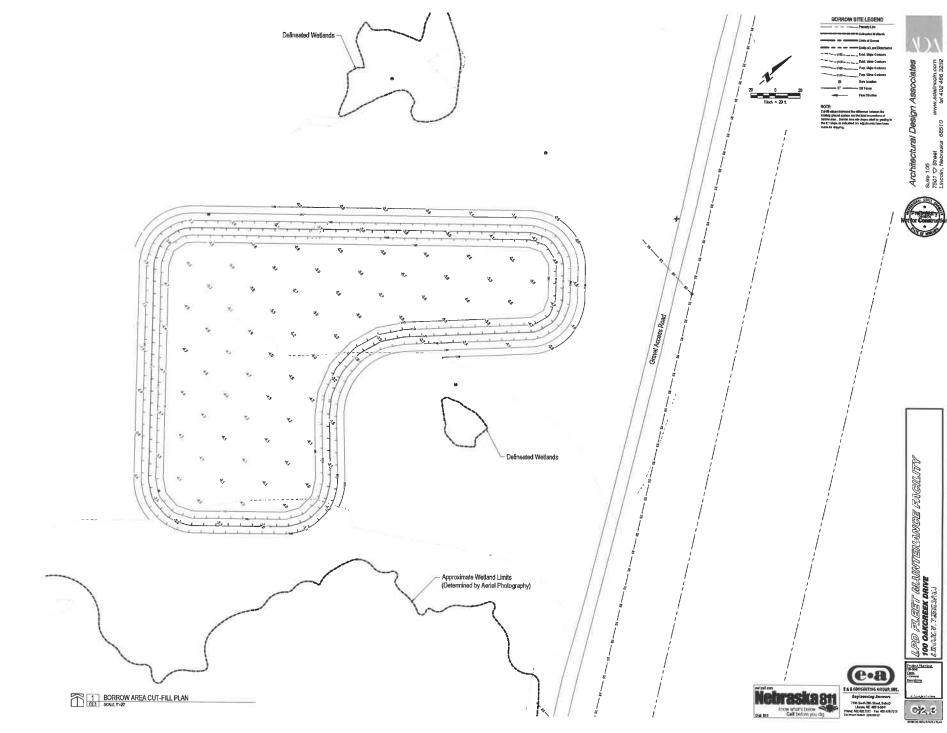




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MEMO

X	Email
	Regular Mail
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TO:

Pat Wenzl, City of Lincoln, Nebraska

FROM:

Thomas C. Kettler Jr, PE

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Steve Jensen, El

RE:

Lincoln Police Department Garage Addition Borrow Area

PROJECT #:

017-2696

DATE:

August 17, 2018

This memorandum provides the laboratory results and recommendations for the proposed borrow material for use within the Lincoln Police Department (LPD) garage addition. The proposed borrow source is located north of the intersection of West Industrial Lake Drive and Pier 2 in the Capitol Beach development of Lincoln, Nebraska. The locations of the soil borings completed to evaluate the borrow material are shown on the Boring Location Map included in Attachment A. The soil boring logs are also included in Attachment B.

The soils encountered in the borings were visually classified and described in general accordance with the Unified Soil Classification System (USCS). We also performed laboratory tests to evaluate the engineering properties of the recovered soil samples. The testing program included moisture content, density/unit weight, Atterberg limits and soil chemistry including chloride, pH, and conductivity. Laboratory test results are included on the soil borings logs and summarized in Attachment C.

We understand the proposed borrow site comprises a saline wetland into which fill material was previously placed. Previous estimates indicated the fill may be 2 to 5 feet in thickness. Based on our borings, the fill exhibited a maximum thickness of 2 feet and in some areas appeared to be absent or was indistinguishable from the underlying alluvium.

Atterberg limits testing indicates the fill material and the underlying native alluvial soils are suitable for use as structural fill as defined in our original geotechnical report. However, soil chemistry



tests on select samples indicate that some of the fill and native soils may be saline, as indicated on the laboratory test report in Attachment C, and on the conductivity map compiled by E&A Consulting and presented in Attachment D. Where possible, saline soils should be confined to landscaped areas or below pavement soil subgrades. If foundations will be supported in imported saline soils, we recommend the use of epoxy coated rebar to reduce the risk of corrosion.

Please note, the soil test borings represent a limited statistical sampling of subsurface soils and it is possible that conditions may be encountered that are substantially different from those indicated by the soil test borings.

Olsson appreciates the opportunity to provide our services for this project and looks forward to working with you on future projects. Should you have any questions, please do not hesitate to contact us.

Respectfully submitted,

Olsson Associates

Steve Jensen, El Assistant Geotechnical Engineer

Steve Jensen

402.458.5016

HO A KETTLER, JR E-14752

Thomas C. Kettler Jr, PE Geotechnical Engineer 402.458.5077

Attachments:

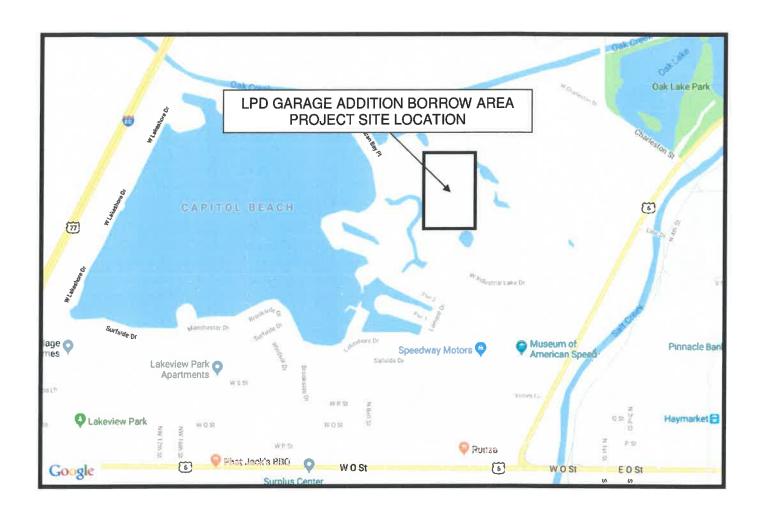
Attachment A - Site Location Plan, Boring Location Map, Geologic Profiles

Attachment B – Symbols and Nomenclature, Boring Logs

Attachment C – Summary of Laboratory Test Results

Attachment D - Conductivity Map

ATTACHMENT A
Site Location Map
Boring Location Map
Geologic Profiles





SITE LOCATION PLAN LPD GARAGE ADDITION BORROW AREA LINCOLN, NEBRASKA OA PROJECT NO. 017-2696



ATTACHMENT B
Symbols and Nomenclature
Boring Logs

SYMBOLS AND NOMENCLATURE

DRILLING NOTES

DRILLING AND SAMPLING SYMBOLS

DRILLING PROCEDURES

Soil samples designated as "U" samples on the boring logs were obtained in using Thin-Walled Tube Sampling techniques. Soil samples designated as "SS" samples were obtained during Penetration Test using a Split-Spoon Barrel sampler. The standard penetration resistance 'N' value is the number of blows of a 140 pound hammer falling 30 inches to drive the Split-Spoon sampler one foot. Soil samples designated as "MC" were obtained in using Thick-Walled, Ring-Lined, Split-Barrel Drive sampling techniques. Recovered samples were sealed in containers, labeled, and protected for transportation to the laboratory for testing.

WATER LEVEL MEASUREMENTS

Water levels indicated on the boring logs are levels measured in the borings at the times indicated. In relatively high permeable materials, the indicated levels may reflect the location of groundwater. In low permeability soils, the accurate determination of groundwater levels is not possible with only short-term observations.

SOIL PROPERTIES & DESCRIPTIONS

Descriptions of the soils encountered in the soil test borings were prepared using Visual-Manual Procedures for Descriptions and Identification of Soils.

PARTICLE SIZE

Boulders Cobbles Gravel	12 in. + 12 in3 in. 3 in4.75mm	Coarse Sand Medium Sand Fine Sand	4.75mm-2.0mm 2.0mm-0.425mm 0.425mm-0.075mm	Silt Clay	0.075mm-0.005mm <0.005mm
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СОНЕ	ESIVE SOILS	COHESIONI	LESS SOILS	COMPO	NENT %
	Unconfined Compressive	e			
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Very Soft	< 0.25	Very Loose	0 - 3	Trace	<5
Soft	0.25 - 0.5	Loose	4 – 9	Few	5 - 10
Firm	0.5 - 1.0	Medium Dense	10 - 29	Little	15 - 25
Stiff	1.0 - 2.0	Dense	30 - 49	Some	30 - 45
Very Stiff	2.0 - 4.0	Very Dense	≥ 50	Mostly	50 - 100
Hard	> 4.0			•	

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PLASTICITY CHART

ROCK QUALITY DESIGNATION (RQD)

Description	RQD (%)
Very Poor	0 - 25
Poor	25 - 50
Fair	50 - 75
Good	75 - 90
Excellent	90 - 100



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	<u>▼</u>			7.5								
1140.0	Lean clay with silt (CL): \ wet, mostly lean clay, few	Very soft, grayish brown, silt, trace fine sand		-	SS 4		0-0-1 N=1					
		10.0		10.0								
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AD	▼ 5.2ft after 2.5Hrs	,				метн	OD: CON	TINUO	US FL	IGHT /	AUGEF	₹

	OLSSON ®	BOREHO	LE RE	POR	T NC). B	-2		S	hee	et 1	of 1
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PROJ	ECT NUMBER 017	2696		LOCAT	ION		Linco	in, Ne	ebra:	ska		
ELEVATION (ft)	Shelby Tube MATERIAL	Split Spoon DESCRIPTION	GRAPHIC LOG	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/ REMARKS
	ADDDOV CUDEACE ELEV /4	14150.0			SAI	CLA	m		Σ	R		
11150.0	APPROX. SURFACE ELEV. (ft DEVELOPED ZONE	j.1 190.0	0.5'	0.0								
	FILL											
53 S	Lean clay (CL): Firm, da lean clay, trace fine sand	and brick	1.5'		U 1A	CL			22.6	88.7	40/20	
7.1	ALLUVIUM				1/							
1147.5	Lean clay with silt (CL): moist, mostly lean clay, lit	Firm, grayish brown, very tle silt, trace fine sand		2.5	1B				27.5	91.1		
1145.0	Lean clay with silt (CL): mostly lean clay, little silt,	Firm; grayish brown; wet; ···· trace fine sand		5.0	SS 2		2-3-2 N=5		30.0			
					1							_
1142.5	Lean clay (CL): Firm, da clay, trace fine sand		6.5'	7.5	SS 3		2-2-3 N=5					
	v		8.0'									
	Lean clay with silt (CL): S lean clay, little silt, trace fil	Soft, brown, wet, mostly ne sand			1							
			9.5'		SS 4		1-1-3 N=4					
1140.0	Poorly graded sand (SP)		10.0'	10.0								
10/07		NG AT 10.0 FEET				CTAD	TED:	714	2/40	INII CI	ED:	
WD	ER LEVEL OBSERVATIONS	OLSSON A				STAR	. CO.:	_	-	ORILL		7/19/18
IAD	▼ 8.0 ft after 0 Hrs	3800 SOUTH LINCOLN, NEE				DRILL		. LUDV	-			CME 75 (A) B. HAMMOND
AD	▼ 3.8ft after 2Hrs					METH	HOD: CON		_	_		2110 01100113

	OLSSON ®	BOREHOLE	RE	POR	T NC). B	-3		S	hee	et 1	of 1
PROJ	IECT NAME LPD Garage Add	lition Borrow Area		CLIEN	Т	С	ity of Li	ncoln	, Nel	brasl	ka	
PROJ	ECT NUMBER 017-	-2696		LOCAT	ION		Linco	In, Ne	bras	ska		
ELEVATION (ft)		Split Spoon DESCRIPTION	GRAPHIC LOG	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/ REMARKS
1150.0	APPROX. SURFACE ELEV. (ft DEVELOPED ZONE):1150.0 0.3'	7/1/2 Z	0.0								
1147.5	ALLUVIUM Lean clay with silt (CL): I moist, mostly lean clay, litt	Firm, grayish brown, very		2.5	U 1				28.2	89.6		
1145.0	Lean clay with silt (CL): S moist, mostly lean clay, litt	Soft, grayish brown, very le silt, trace fine sand		5.0	SS 2		1-2-1 N=3		26.6			
1142.5	Lean clay with silt (CL): S mostly lean clay, little silt,			7.5	NR 3		2-1-1 N=2					
1140.0	Lean clay with silt (CL): S mostly lean clay, little silt, t	trace fine sand 10.0°		10.0	SS 4		0-0-2 N=2					
WAT	TER LEVEL OBSERVATIONS					STAR	TED:	7/19	/18 F	INISH	ED.	7/19/18
WD	<u></u> 8.0 ft	OLSSON ASSO				DRILL		OLSS	_			CME 75 (A)
IAD	▼ 8.0 ft after 0 Hrs	3800 SOUTH 6TH LINCOLN, NEBRA				DRILL	.ER: D	. LUDW	-			B. HAMMOND
AD	▼ 5.0ft after 1.5Hrs		4			METH	OD: CON	INUOL	JS FLI	GHT A	UGER	

	OLSSON ®	BOREHOLE	RE	POF	RT NC). B	-4		S	hee	et 1	of 1
PRO	JECT NAME LPD Garage Add	lition Borrow Area		CLIEN	Т	С	ity of Li	ncolr	ı, Ne	brasl	ka	
PROJ	ECT NUMBER 017-	-2696		LOCAT	TION		Linco	ln, N	ebra	ska		
ELEVATION (ft)		DESCRIPTION	GRAPHIC LOG	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/ REMARKS
	APPROX. SURFACE ELEV. (ft DEVELOPED ZONE):1149.0		0.0								
e :	ALLUVIUM	0.5'										
1147.5	Lean clay (CL): Firm, bro	own, moist, mostly lean			SS 1		4-4-4 N=8		18.4			
		3.5′_		2.5								
1145.0 - -	Lean clay with silt (CL): s mostly lean clay, little silt,	Soft, brown, very moist, trace fine sand		5.0	SS 2		1-2-2 N=4		28.6			
1142.5	Lean clay with silt (CL): \ mostly lean clay, little silt,	Very soft, brown, wet, trace fine sand		7.5	SS 3		0-0-0 N=0					
1140.0	Lean clay with silt (CL): \ mostly lean clay, little silt, t	/ery soft, brown, wet, trace fine sand 10.0'		10.0	SS 4		0-0-0 N=0					
	BASE OF BORIN		11111	10.0	1							
WAT	TER LEVEL OBSERVATIONS					STAR	TED:	7/19	9/18 F	INISH	ED:	7/19/18
WD	<u></u>	OLSSON ASSO 3800 SOUTH 6T				DRILL	. CO.:	OLSS	ON E	RILL F	 રાG:	CME 75 (A)
IAD	▼ 8.0 ft after 0 Hrs	LINCOLN, NEBRA				DRILL	.ER: D	. LUDV	VIG L	.OGGE	D BY:	B. HAMMOND
AD	▼ 5.0ft after 2.5Hrs					метн	OD: CON	TINUO	JS FL	IGHT A	UGER	

\bigcap	OLSSON ®	BOREHOLE	RE	POR	RT NC). B	-5		S	hee	et 1	of 1
PROJ	ECT NAME	lition Borrow Area		CLIEN	Т	C	ity of Li	ncolr	ı, Ne	brasi	ка	
PROJ	ECT NUMBER 017	-2696		LOCAT	TION		Linco	ln, N	ebra	ska		
ELEVATION (ft)	Shelby Tube MATERIAL	Split Spoon DESCRIPTION	GRAPHIC	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/P! (%)	ADDITIONAL DATA/ REMARKS
	APPROX. SURFACE ELEV. (fi):1149.0	ļ.,	0.0		បី						
	DEVELOPED ZONE	0.5'	1/ 2/1/ Z X Z	10								
	FILL											
1147.5		Firm, grayish brown, moist,			U 1	CL			23.2	91.2	31/8	
-	ALLUVIUM	2.0		-								
1145.0	Lean clay with silt (CL): moist, mostly lean clay, lit	Soft, grayish brown, very tle silt		5.0	SS 2		2-2-2 N=4		29.0			
1142.5	Lean clay with silt (CL): mostly lean clay, little silt ▼	Soft, grayish brown, wet,		7.5	U 3							
1140.0	.▼ Lean clay with silt (CL): wet, mostly lean clay, little	siit 10.0°		10.0	SS 4		0-0-0 N=0					
		NG AT 10.0 FEET										
	TER LEVEL OBSERVATIONS	OLSSON ASS	OCI/	ATES	•	STAR			-	INISH		7/19/18
WD		3800 SOUTH 6T	'H S	TREE	ΞT		_ CO.:		-	DRILL I		CME 75 (A)
IAD	▼ 6.8ft after 2Hrs	LINCOLN, NEBRA	ASK	A 68	502	DRILL	LER: [). LUĐ\	_			D. TV WINGOIND

	OLSSON ®	BOREHOL	LE R	EPC	ORT	NC). B	-6		S	hee	et 1	of 1
PROJ	JECT NAME	ition Borrow Area		CLI	IENT		c	ity of Li	ncoir	n, Ne	brasi	 ka	
PROJ	JECT NUMBER 017-2			LOC	CATIC	N		Linco					
ELEVATION (ff)	Shelby Tube	Split Spoon	GRAPHIC	LOG	(£)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE		MOISTURE (%)		LUPI (%)	ADDITIONAL DATA/ REMARKS
	APPROX. SURFACE ELEV. (ft):	:1150.0		0.0		<i>i</i> s	2				Δ		
	DEVELOPED ZONE		0.3'										
	FILL Lean clay (CL): Stiff, brow trace fine sand	wn, moist, mostly lean clay,											
			2.0'			U 1				19.4	99.0		
	ALLUVIUM												
1147.5	Lean clay with silt (CL): Vovery moist, mostly lean clay	'ery soft, grayish brown, y, little silt and fine sand		2.9	5								
					1	SS		1-1-0 N=1		31.6			
es et	1				1/\	2		N=1					
1145.0	4			5.0	0	\							
					-								
e: :-				1	1	1							
.) -	Lean clay with silt (CL): Sof → mostly lean clay, little silt, tr				-	SS		1-1-1					
-					4/\	3		N=2					
1142.5				7.5	5	\							
	Y	alliana Stadilaran Stanonan		1		T							
	Lean clay with silt (CL): Sof mostly lean clay, little silt, tr	ft, grayish brown, wet, race fine sand			1	SS		2-1-1					
					$\frac{1}{}$	4		N=2					
1140.0	BASE OF BORING		0.0'	10.0	.0				\dashv		-	_	
WAT	TER LEVEL OBSERVATIONS	JAI IV.VI LLI					STAR	TED:	7/19	0/18 F	INISH	ED.	7/40/48
WD	<u></u>	OLSSON AS					DRILL			-	DRILL F		7/19/18 CME 75 (A)
IAD	▼ 8.5 ft after 0 Hrs	3800 SOUTH 6 LINCOLN, NEB					DRILL		. LUDV		_		
AD	▼ 6.6ft after 1.5Hrs		/I W two.	V-1 -	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	METH	IOD: CONT					DITE WINTOIND

	OLSSON ®	RE	POR	T NC). B	-7		S	Shee	et 1	of 1	
PRO	JECT NAME LPD Garage Add	lition Borrow Area		CLIEN		C	ity of Li	ncolr	ı, Ne	bras	ka	
PROJ	ECT NUMBER 017-	-2696		LOCATION Lincoln, Nebraska								
ELEVATION (ft)		Split Spoon DESCRIPTION	GRAPHIC	DEPTH (ft)	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE		MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/ REMARKS
1150.0	APPROX. SURFACE ELEV. (ft DEVELOPED ZONE	:):1150.0 0.3'	Z _{1.1} X. 7	0.0		-						
F .	FILL Lean clay (CL): Stiff, mo fine sand	o.3'										
1147.5	ALLUVIUM Lean clay with silt (CL):	2.0' Firm, grayish brown, moist,		2.5	1	CL			17,1	109.5	34/12	
	mostly lean clay, little silt,	few fine sand			21							
1145.0				5.0	SS 2	CL	2-2-3 N=5		24.2		31/9	
-: -				- 2-	1							
	Lean clay with silt (CL): S mostly lean clay, little silt,			SS 3		2-1-2 N=3						
1142.5	Y			7.5								
	Lean clay with silt (CL): S mostly lean clay, little silt, i	Soft, grayish brown, wet, trace fine sand			SS 4		0-0-2 N=2					
1140.0		10.0		10.0	\							
W/AT	TER LEVEL OBSERVATIONS	NG AT 10.0 FEET				STAR	TED:	7/10	0/18	INISH	ED:	74045
WD	<u> </u>	OLSSON ASSO				DRILL			-	RILL		7/19/18 CME 75 (A)
IAD	▼ 8.0 ft after 0 Hrs	3800 SOUTH 6T LINCOLN, NEBRA				DRILL		. LUDV	\rightarrow			
AD	▼ 6.7ft after 1Hrs					METH	IOD: CON	TINLIOI	IS FI	ICHT /	NI ICED	

	OLSSON ®	PORT NO. B-8 Sheet 1 of 1										
PRO.	IECT NAME LPD Garage Ado	lition Borrow Area		City of Lincoln, Nebraska								
PROJ	ECT NUMBER 017	-2696		LINCOLIN, Nebraska								
ELEVATION (ft)	Shelby Tube MATERIAL (APPROX. SURFACE ELEV. (fi	Split Spoon DESCRIPTION	GRAPHIC LOG	O DEPTH	SAMPLE TYPE NUMBER	CLASSIFICATION (USCS)	BLOWS/6" N-VALUE	UNC. STR. (tsf)	MOISTURE (%)	DRY DENSITY (pcf)	LL/PI (%)	ADDITIONAL DATA/ REMARKS
1130,0	DEVELOPED ZONE	0.3'	7/1/N 7	0.0								
	FILL Lean clay (CL): Stiff, light moist, mostly lean clay, tr fragments	FILL Lean clay (CL): Stiff, light brown to dark brown, moist, mostly lean clay, trace fine sand and rock										
S 1.	"agnones			-	1A				15.8	102.8		
5 5	ALLUVIUM	2.0'		_	U 1B				20.0			
1147.5	Lean clay with silt (CL): mostly lean clay, little silt,	Firm, grayish brown, moist, trace fine sand		2.5								
15				_	1							
					SS 2		3-3-4 N=7		20.0			
1145.0				5.0	/ <u>\</u>							
- :-	Lean clay with silt (CL): mostly lean clay, little silt,	Soft, grayish brown, moist, trace fine sand			ss		0-2-2					
1142.5					3		N=4					
	Lean clay with silt (CL): mostly lean clay, little silt,			SS 4		0-1-1 N=2						
1140.0		10.0'		10.0								
. 1-0.0		NG AT 10.0 FEET	(1////	10.0	-1							
WAT	ER LEVEL OBSERVATIONS					STAR	TED:	7/19	9/18 F	INISH	ED:	7/19/18
WD	∑ Not Encountered ☐	OLSSON ASSON ASSON ASSON ASSON SOUTH 6T				DRILL	. CO.:	OLSS	ON E	RILL	RIG:	CME 75 (A)
IAD	▼ Not Encountered	LINCOLN, NEBRA				DRILL	.ER: D	. LUDV	VIG L	.OGGE	D BY:	B. HAMMOND
AD	▼ Not Performed				- —	DRILLER: D. LUDWIG LOGGED BY: B. HAMMOND METHOD: CONTINUOUS FLIGHT AUGER						

ATTACHMENT C
Summary of Laboratory Test Results

OLSSON ASSOCIATES 3800 SOUTH 6TH STREET LINCOLN, NEBRASKA 68502



SUMMARY OF LABORATORY RESULTS

PAGE 1 OF 1

PROJECT NAME: LPD Garage Addition Borrow Area

PROJECT NUMBER: 017-2696

CLIENT: City of Lincoln, Nebraska

PROJECT LOCATION: Lincoln, Nebraska

BORING NUMBER	SAMPLE	SAMPLE	MOISTURE CONTENT	DRY DENSITY	VOID	SATURATION	UNCONFINED	STRAIN	A ⁻	TTERBERG LIMI	TS		LICCO
	I.D.		(%)	(pcf) RA	RATIO	ATIO (%)	STRENGTH (tsf)	(%)	LIQUID LIMIT	PLASTIC LIMIT	PLASTIC INDEX	P-200	USCS CLASS.
B-1	U-1	1.0 - 2.5'	22.7	98.7	0.707	86.5							
B-1	SS-2	3.5 - 5.0'	34.1										
B-2	U-1A	1.0 - 1.8'	22.6	88.7	0.901	67.8			40	20	20		CL
B-2	U-1B	1.8 - 2.5'	27.5	91.1	0.850	87.3							
B-2	SS-2	3.5 - 5.0'	30.0										
B-3	U-1	1.0 - 2.5'	28.2	89.6	0.882	86.3							
B-3	SS-2	3.5 - 5.0'	26.6										
B-4	SS-1	1.0 - 2.5'	18.4										
B-4	SS-2	3.5 - 5.0'	28.6										
B-5	U-1	1.0 - 2.5'	23.2	91.2	0.849	73.9			31	23	8		CL
B-5	SS-2	3.5 - 5.0'	29.0										
B-6	U-1	1.0 - 2.5'	19.4	99.0	0.703	74.5							
B-6	SS-2	3.5 - 5.0'	31.6										
B-7	U-1	1.0 - 2.5'	17.1	109.5	0.540	85.3			34	22	12		CL
B-7	SS-2	3.5 - 5.0'	24.2						31	22	9		CL
B-8	U-1A	1.0 - 1.8'	15.8	102.8	0.640	66.8							
B-8	U-1B	1.8 - 2.5'	20.0										
B-8	SS-2	3.5 - 5.0'	20.0										



OLSSON ASSOCIATES, L 601 P ST LINCOLN NE 68508 BATCH 18080105 page 1

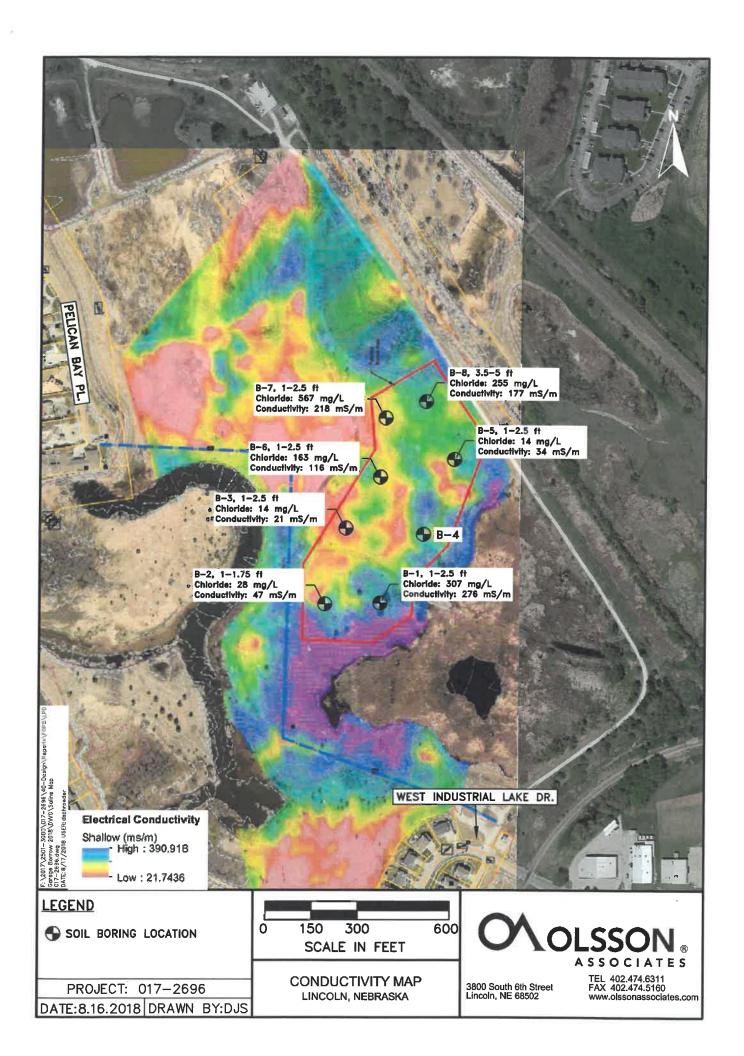
PROJECT LPD Garage Addition

LOCATION Borrow Area

ATTN: STEVE JENSEN DATE RECEIVED 8/1/2018
DATE REPORTED 8/8/2018

SAMPLE ID LAB NUMBER SAMPLE TYPE		B1 U1 74403 SOIL	B2 U1A 74404 SOIL	B3 U1 74405 SOIL	85 U1 74406 SOI L	B6 U1 74407 SOIL	B7 U1 74408 SOIL	88 SS2 74409 SOIL			
Chloride	mg/l	307	28	14	14	163	567	255			
Method 325.2											
pH Method 4500-H		6.5	6.3	6.3	6.4	6.3	6.1	7.4	1 27 12 2		
Conductivity Method 2510-B	mS/cm	2.76	0.47	0.21	0.34	1.16	2.18	1.77			
						7					
										72 19 1	
1. T. F. B. C.											
							112		La min A	. 1	
	-								27.97		
		177				-					
		1,177	T-II.			1					
	1	7 20 -			73.00		RI	EVIEWED BY:			E-1 516

ATTACHMENT D Conductivity Map



Lower Platte South Natural Resources District Community Forestry Program – Exhibit "A"

The Lower Platte South Natural Resources District ("District") has budgeted funds for the purpose of sharing half of the total cost of trees and planting for the public good. Applicants must provide a brief written description on how the planting will be in the public good. Applicants can be neighborhood associations, service organizations, citizen groups, business associations, villages, towns and cities. Plantings can be on public & private lands such as school grounds, parks, cemeteries, common grounds, along street right-of-ways, etc. Lands cannot be owned by the United States government, the State of Nebraska, or any political subdivision of the State of Nebraska such as counties, cities, etc.

The applicants match must be a minimum of 25% cash (private funds only, no tax funds). The other 25% match can be non-NRD tax dollars (i.e. additional grant dollars) or in kind services for planting and tree care. Maximum amount for in kind matching for planting is up to \$100.00/tree and for tree care is \$5.00/tree/year for 3 years; i.e. \$15.00 for the 3 year maintenance agreement.

The District's portion for the tree planting project is up to 50% of the total cost of trees and planting. The cost of planting of the trees will not exceed \$100.00 per tree. The District's portion of tree planting will not exceed \$50.00 per tree. Maximum for an application for one year is \$10,000 of District funds. Each applicant can only be approved for \$10,000 every 3 years.

Participants in the Community Forestry Program are required to obtain trees through a local nursery (see Nebraska Department of Agriculture's <u>Nursery Stock Distributor List</u>) and are encouraged to utilize the technical expertise of the Nebraska Forest Service, the District Forester, the nursery, a landscape architect, or a professional arborist for the purpose of establishing a plan for the planting and maintenance of the trees.

Each application must include at least three written proposals from different vendors for the cost of the trees. Planting by the vendor may also be included on the proposal. The application, planting plan and vendor proposals will be reviewed and approved by the District Forester.

Orchard Trees, Shrubs, and Ornamental Grasses are NOT eligible for cost share assistance. Standard landscape size $1\frac{1}{2}$ " stock ($1\frac{1}{2}$ " - $1\frac{3}{4}$ ") for deciduous trees and 4-5" for conifer trees is the recommended size. Root maker bag trees 3 gallon to 15 gallon trees are encouraged as well. Larger stock can be planted but cost share will be based on the price of the standard size stock. All trees must be guaranteed for 1 year.

Applicants must submit a project proposal to the District which shall include the following information:

- 1. Identification of the applicant (person(s), neighborhood association, village, town or city) applying for the cost-sharing funds, including the name address, phone number, and email of the person coordinating the project.
- 2. A detailed description of the project, including:
 - a. The location for the tree plantings. Location can include before photos or drawings, a description of the existing vegetation (including trees), location of utilities such as water, sewer, electrical, and telephones lines or cable. If the trees along the street right of way are being planted, it is desirable to have the street addresses for the location of each tree. If

street addresses are not available, trees should be located on a map indicating the approximate proposed planting site.

- b. The purpose of the project and a brief written description on how the project will benefit the general public (limit of 500 words), i.e. aesthetics, energy conservation, wildlife, windbreak, street trees, tree replacement, etc.
- c. A schedule for implementing the project plan. Include approximate date of tree planting, tree care prior to planting, and maintenance for the following 3 years.
- 3. A detailed description of the cost of the trees, including:
 - a. The number of trees, size, species, and the price per tree. For recommended species see

 Tree for Nebraska Ice Storm Recovery by Nebraska Statewide Arboretum and/or Lincoln.

 Nebraska's Approved Trees for the Streets.
 - b. The cost of planting the trees (per tree) and an identification of who will be responsible for the planting.
 - c. Total cost of maintenance for the 3 year period can be included in the project.
 - d. The total project cost.
- 4. Cost-sharing information including:
 - a. The amount of cost-sharing funds requested from the District. (50% of the cost of the trees, planting, and 3 years of maintenance, excluding tax).
 - b. Set out the balance of the project funds (applicant's share) including the source of those funds, i.e. private, in-kind labor, grants, community budget, etc.

Applications will be accepted year around until available funds are expended. If applications are complete, meet all the guidelines, are on public ground and are less than \$5,000, they will be approved by the District Forester and the District General Manager. For applications above \$5,000 the appropriate committee of the District will review the application then refer the application to the Board of Directors of the District for approval.

Approved projects are required to complete an "Agreement" form. An example of the "Agreement" is enclosed.

All approved projects must be completed before June 1st. This allows the District forester the month of June to inspect the plantings and issue payment before the end of the fiscal year, which is July 1st. However, applicants need not wait until June 1st. It is best to contact the District forester as soon as the project is completed.

If you have any questions, call the District Forester at (402) 476-2729.

GUIDELINES FOR APPLYING TO THE LOWER PLATTE SOUTH NATURAL RESOURCES DISTRICT COMMUNITY FORESTRY PROGRAM

(applicant) and the coor	rdinator of the project	od association, village, sch	•
_			
Tree information			
	Size	Species	Cost
# of Trees	0120	operios	0000
# of Trees			

Planting max \$100/tree
* PLANTING TOTAL
* TOTAL COST OF PROJECT
AMOUNT REQUESTED FROM NRD 50% max
APPLICANT SHARE TOTAL
Source of Applicants share:
\$ donations (source)
\$ adjacent homeowners
\$ in-kind labor
\$ grant (source)
\$ community budget
\$ neighborhood association funds
\$ other sources
Identification of who will be recovered by for the planting for the 2 years.
Identification of who will be responsible for the planting for the 3 years: village or town
neighborhood association
adjacent landowners
landowner
other (explain)

*	Attach to the application a brief description of the purpose of the project and how it provides a public good to the Lower Platte South Natural Resources District.
*	Trees should be located on a map indicating the approximate proposed planting site, please attach map.
*	Street addresses for the location of proposed trees, please attach list of location(s) NO TREES CAN BE PLANTED BENEATH POWER LINES!
	Photographs or slides depicting the situation before the project is funded.
*	This application, planting plan, planting site, nursery proposals and public good description have been reviewed and approved by the Lower Platte South Natural Resources District Forester.
LP:	SNRD District Forester Date

COMMUNITY FORESTRY COST-SHARE AGREEMENT FOR PRIVATE LAND

This Community Forestry Cost-Share Agreement (the "Agreement") made and	entered
into by and among the LOWER PLATTE SOUTH NATURAL RESOURCES DIST	TRICT, a
political subdivision of the State of Nebraska, with its principal business located	at 3125
Portia Street, Lincoln, Nebraska 68521, telephone number (402) 476-2729, he	ereinafter
referred to as the "District," and, Coordinator, "A	\ddress",
"Phone", "Email", hereinafter referred to as "Landowner", whether one or more.	

WITNESSETH:

RECITALS

- A. The District has established a Community Forestry Program (the "Program") for the purpose of cost-sharing with certain eligible persons or entities for the purchase and planting of trees on public or private land. The term "private land" for purposes of this Agreement shall mean land not owned by a political subdivision of the State of Nebraska, the State of Nebraska, or the federal government.
- B. The Landowner is either a group of private landowners or a neighborhood association which entity has been determined by the district to be eligible to participate in the Program. The Landowner has also filed a proposal which has been approved by the Board of Directors or the General Manager of the District on "Date".

- NOW, THEREFORE, in consideration of the above recitals and the mutual promises and covenants contained herein, the parties agree as follows:
- Landowner agrees to participate in the District's Program and further agrees to abide
 by the requirements of the Program, a copy of which is attached hereto as Exhibit "A",
 and incorporated herein by this reference.
- 2. Landowner agrees to purchase certain trees, the species and size of which are specified in the Landowner's approved proposal and plant such trees in accordance with the plot plan, a copy of which is attached hereto as Exhibit "B" and incorporated herein by this reference.
- Landowner agrees to provide the District with a certificate of costs incurred and copies of all bills relating to the project.
- District agrees to contribute fifty percent (50%) of the total approved costs of the project, with the District's portion not to exceed \$"Total".
- 5. If within ten year(s) from the date of final completion of the project, any of the trees planted pursuant to this Agreement are permanently removed from the project, replaced, or moved to a new location, without the consent of the District, or die as a result of the lack of care, then Landowner agrees to either reimburse the District in an amount not to exceed the total amount of the District's contribution, determined by the District in its sole discretion, or replaces the trees with either the same species as originally planted or some other species approved by the District.
- The District agrees to make the District Forester available to assist the Landowner in implementing the proposal.

IN WITNESS WHEREOF, the parties have exec	uted this Agreement on
"Date".	
LOWER PLATTE SOUTH NATURAL RESOURCES	S DISTRICT, A Political Subdivision of
the State of Nebraska,	
Paul Zillig, General Manager	Date:
(Authorized Representative) LANDOWNER,	
(,,	
Signature	Date
Olgitaturo	Date
Print Name	