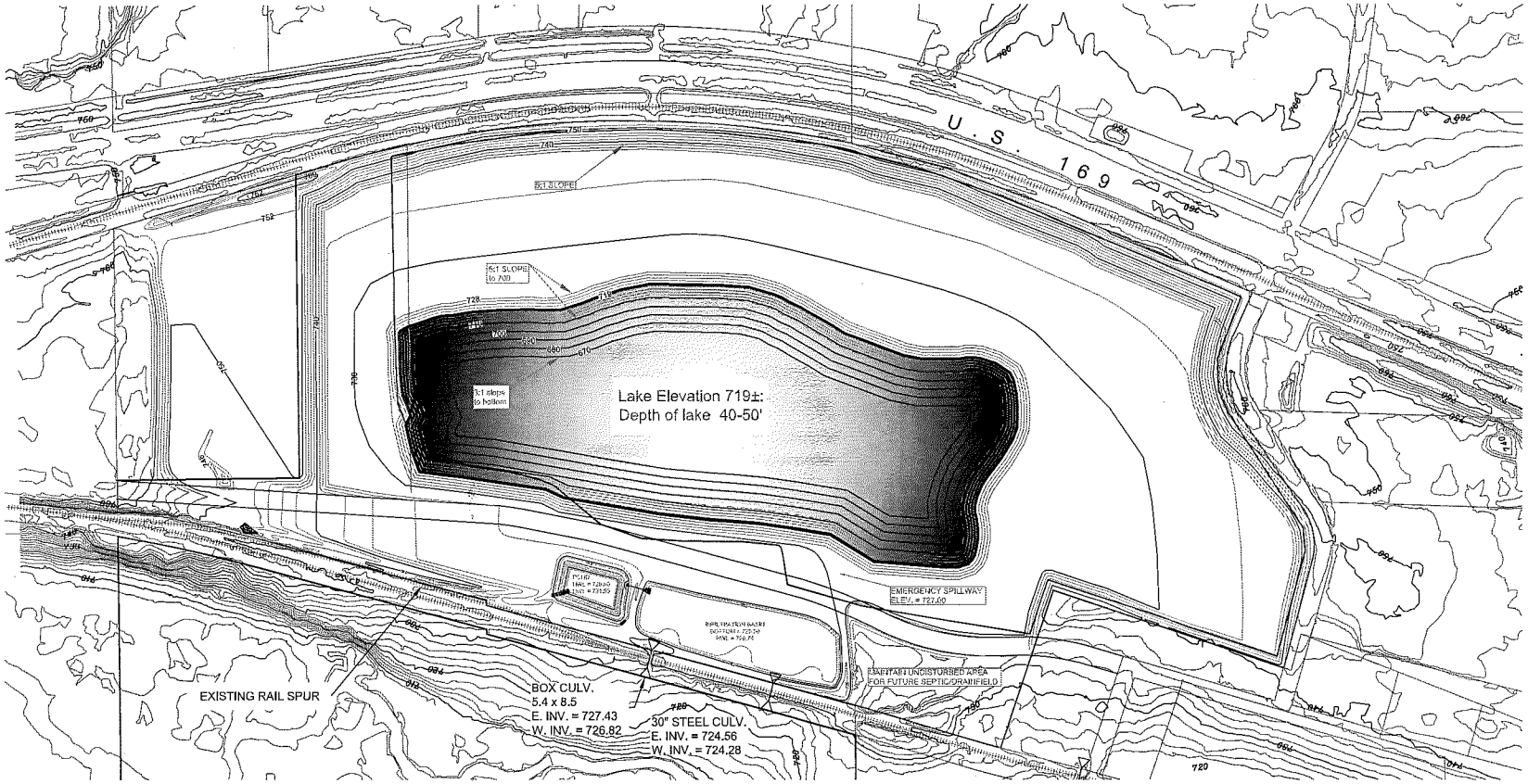

Reclamation Notes:

1. Reclamation will begin in a timely fashion after a large enough water excavation has been created to allow simultaneous process water appropriation, wet mining and hydraulic backfilling.
2. The peaks and depressions of the area shall be restored in general accordance to the grades illustrated on this plan.
3. Reclamation grading may occur within the mining setback and a minimum of 20% slopes are required.
4. Reclaimed areas to be left in an upland condition will be surfaced with a soil of a quality at least equal to the topsoil of the land prior to mining. Said topsoil shall be placed to a minimum of 6" of depth over reclaimed upland areas.
5. The topsoil shall be seeded with an appropriate seed mix to assure the establishment of vegetation and stabilization of reclaimed areas.
6. Reclamation grades have been developed so as not to affect the surrounding land or future development.
7. Preserve undisturbed area for possible future community septic system/drainfiled as illustrated on the plan.
8. Perimeter berms may be removed as part of final reclamation.

General Notes

1. Boundary from Scott County GIS
2. Topography from a survey by Bolton and Menk, Inc. dated 9-11-08, for the active portion of the mining site on Scott County and Scott Land Company LLC parcels. Remainder of topography is from aerial methods from Scott County GIS, 2003 Topography.
3. Estimated normal water level based on technical memorandum by Barr Engineering dated May 17, 2011, indicating water surface elevation of 718.7 feet above msl.
4. 100 yr flood plain = 725 ±
5. Water level rise from two 100 yr back-to-back rainstorm events = 2.38 feet above normal lake elevation.

N

200 0 200 400
SCALE IN FEET

Sunde Engineering, Inc.
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PROGRESSIVE RAIL, INC.

GREAT PLAINS SAND

IUP APPLICATION

SCOTT COUNTY, MINNESOTA

DATE	REVISION
11-07-11	add overburden below water
03/12/2012	IUP Submittal

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Kirsten Pauly
DATE: 03/12/2012 REG. NO.: 21842

INFORMATION:

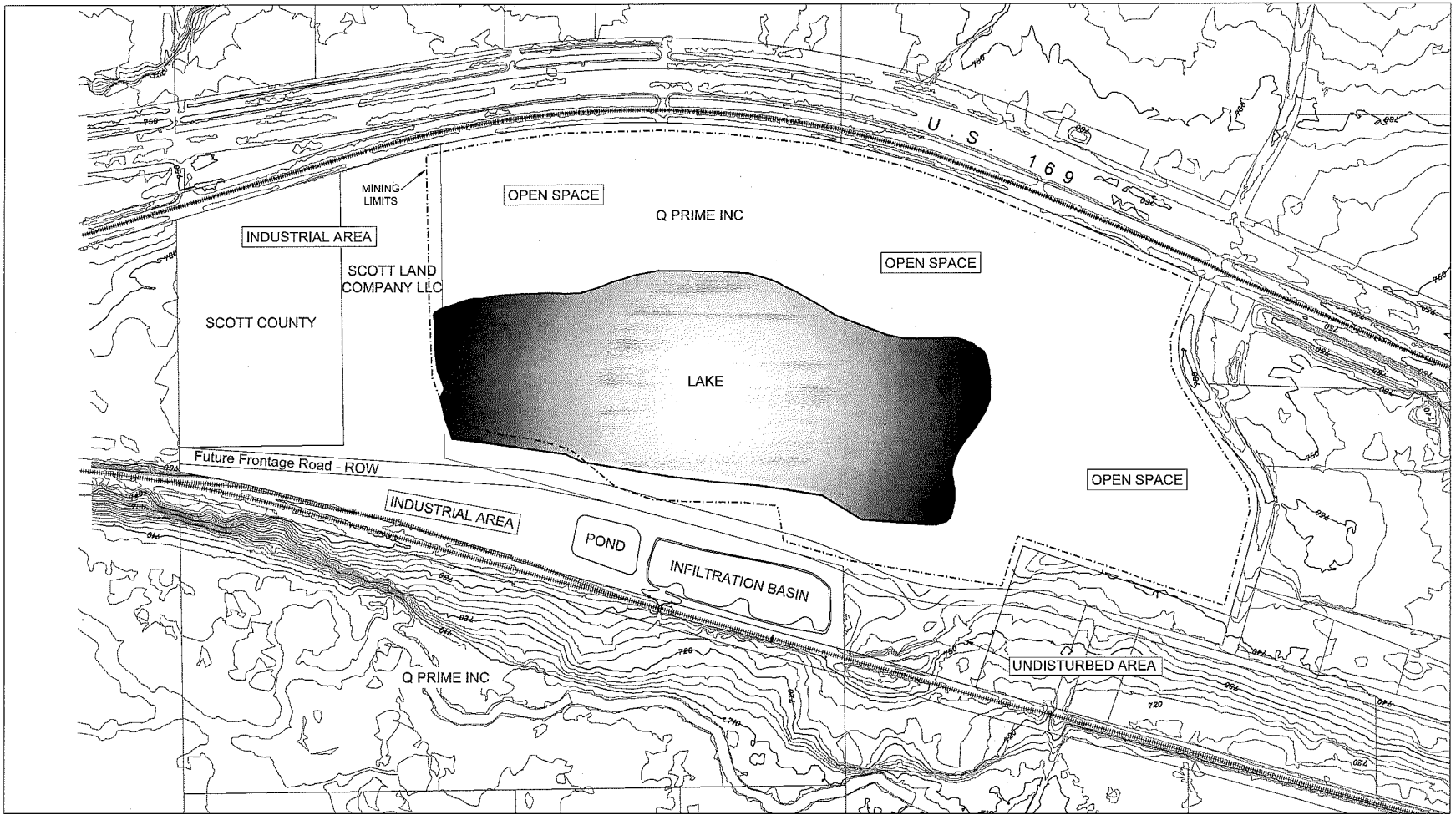
PROJECT NO.: 10-655
DRAWN BY: LT
CHECKED BY: KP
APPROVED BY: KP
SCALE: Graphic
DATE: 03/12/2012

DESCRIPTION:

RECLAMATION PLAN

SHEET NO:

Map C



1. Boundary from Scott County GIS
2. Topography from a survey by Bolton and Menk, Inc. dated 9-11-08, for the active portion of the mining site on Scott County and Scott Land Company LLC parcels. Remainder of topography is from aerial methods from Scott County GIS, 2003 Topography.
3. Future R-O-W - 66' width.

N

200 0 200 400
SCALE IN FEET

T.115 , R.23 , S.33 LT DRAWING: \\kirslanape\dwga\Great Plains Sands\IUP\2012-3-8 Revisions for IUP Submittal\Map D-End Use Plan new road.dwg LAYOUT: Map D-End Use Plan

Sunde Engineering, PLLC.
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IUP APPLICATION

SCOTT COUNTY, MINNESOTA

DATE	REVISION
03/12/2012	IUP Submittal

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Kirsten Pawly
Kirsten Pawly
DATE: 03/12/2012 REG. NO.: 21842

INFORMATION:

PROJECT NO.:	10-886
DRAWN BY:	LT
CHECKED BY:	KP
APPROVED BY:	KP
SCALE:	Graphic
DATE:	03/12/2012

DESCRIPTION:

CONCEPT END USE PLAN

SHEET NO:

Map D

of