FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2647	99-00142-07-WR	LAKE	256	80
CONTRACT NO: 83815				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

Low-Profile Prairie Seeding

C - Value	Ind. Status	Scientific Name	Common Name	Lb/Acre
5	FACU	Andropogon scoparius	little bluestem grass	3.000
6	UPL	Bouteloua curtipendula	side oats grama grass	2.000
4	FACW	Elymus virginicus	Virginia wild rye	0.250
7	FAC	Allium cernuum	nodding wild onion	0.125
7	UPL	Asclepias tuberosa	butterfly weed	0.125
9	UPL	Aster laevis	smooth blue aster	0.047
4	FACW	Aster novae-angliae	New England aster	0.063
5	FACU	Coreopsis lanceolata	sand coreopsis	0.500
8	UPL	Echinacea pallida	pale purple coneflower	0.063
3	UPL	Echinacea purpurea	purple coneflower	0.500
9	FAC+	Eryngium yuccifolium	rattlesnake master	0.125
6	UPL	Liatris aspera	button blazing star	0.015
4	FACU	Monarda fistulosa	wild bergamot	0.020
9	UPL	Petalostemum purpureum	purple prairie clover	0.063
5	FACW+	Pycnanthemum virginianum	common mountain mint	0.031
4	UPL	Ratibida pinnata	yellow coneflower	0.500
1	FACU	Rudbeckia hirta	black-eyed susan	1.000
9	FACU+	Rudbeckia subtomentosa	sweet black-eyed susan	0.500
4	UPL	Solidago nemoralis	old-field goldenrod	0.125
4	FACW-	Solidago rigida	stiff goldenrod	0.046
2	FACU+	Tradescantia ohiensis	ohio spiderwort	0.063
5	FAC	Vernonia altissima taeniotricha	hairy tall ironweed	0.100
			Total Weight of Seeds (lbs)	**9.362**
Cover Crop:				
0	UPL	Lolium multiflorum	annual rye	3.000
0	UPL	Avena sativa	oats	32.000

Wet-Mesic Seeding

C - Value	Ind. Status	Scientific Name	Common Name	Lb/Acre
5	FAC-	Andropogon gerardii	big bluestem	1.500
3	OBL	Calamagrostis canadensis	blue joint grass	0.250
4	FACW-	Elymus virginicus	Virginia wild rye	1.250
4	OBL	Leersia oryzoides	rice cut grass	1.000
5	FAC+	Panicum virgatum	switch grass	0.250
4	FACW+	Spartina pectinata	cord grass	0.450
4	OBL	Asclepias incarnata	swamp milkweed	0.063
9	UPL	Aster laevis	smooth blue aster	0.125
4	FACW	Aster novae-angliae	New England aster	0.031
		Bidens sp.	tickseed	0.062
6	OBL	Carex bebbii	Bebb's sedge	0.125
4	FACW+	Carex cristatella	crested oval sedge	0.063
5	FAC	Carex normalis	normal sedge	0.125
8	OBL	Carex vulpinoidea	fox sedge	0.125
2	OBL	Eleocharis acicularis	needle spike rush	0.062
2	OBL	Eleocharis erythropoda	red-rooted spike rush	0.062
4	OBL	Eupatorium maculatum	spotted joe pye weed	0.259
4	FACW+	Eupatorium perfoliatum	boneset	0.115
5	FACW+	Helenium autumnale	sneezeweed	0.500
5	OBL	Iris virginica shrevei	blue flag	0.125
4	FAC	Juncus dudleyi	Dudley's rush	0.031
4	FACW	Juncus torreyi	Torrey rush	0.062
5	OBL	Lycopus americanus	water horehound	0.063
4	FACU	Monarda fistulosa	bergamot	0.016
5	OBL	Penthorum sedoides	ditch stonecrop	0.001
5	FACW+	Pycnanthemum virginianum	common mountain mint	0.160
4	OBL	Scirpus atrovirens	dark green rush	0.700
4	FACW+	Verbena hastata	blue vervain	0.046
			Total Weight of Seeds (lbs)	**7.621**
Cover Crop:				
0	UPL	Lolium multiflorum	annual rye	3.000
0	FACW+	Polygonum pensylvanicum	Pennsylvania knotweed	0.250

WETLAND PLANTS

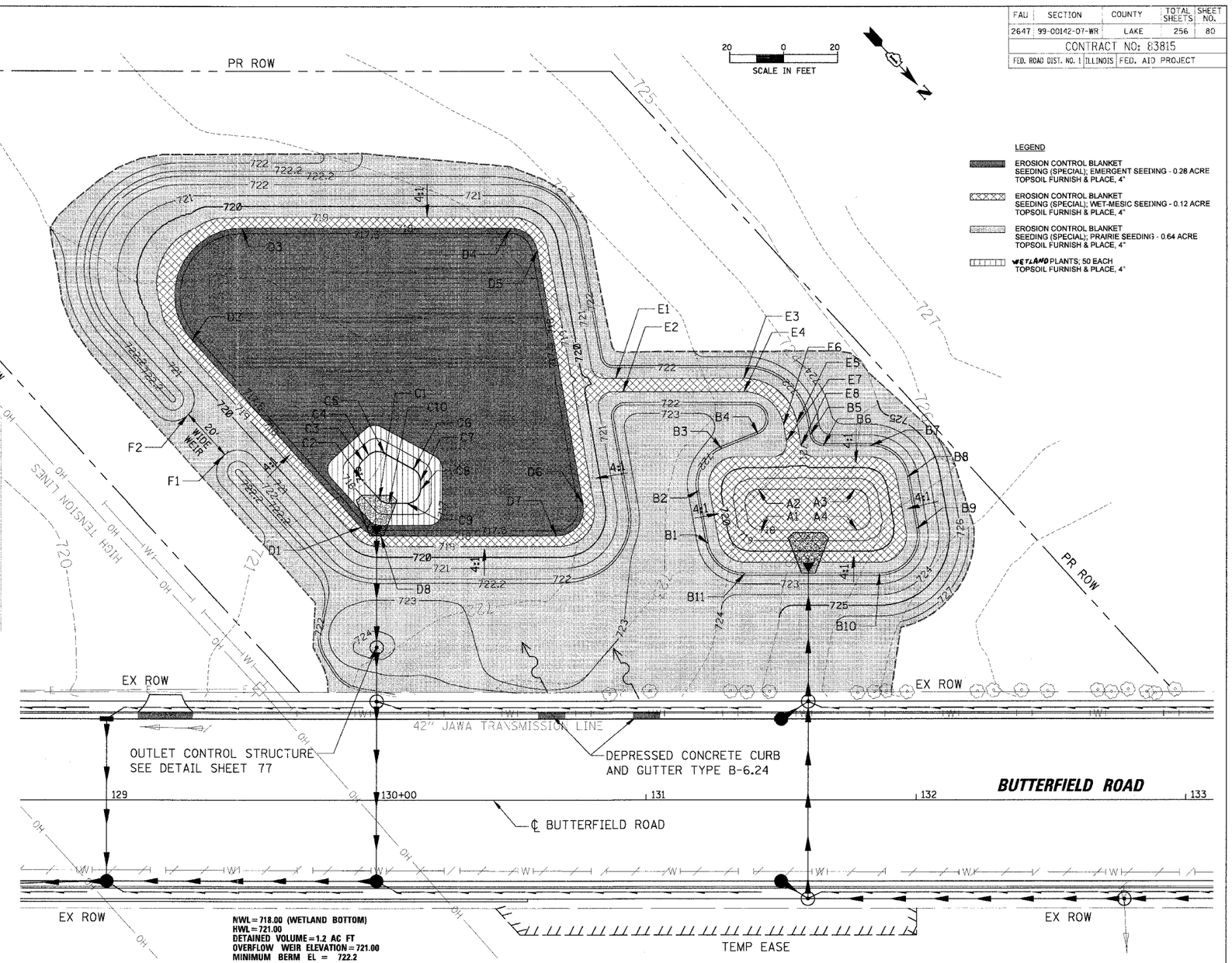
C - Value	Ind. Status	Scientific Name	Common Name	Plants per zone
7	OBL	Nuphar advena	yellow pond lily	25
7	OBL	Nymphaea tuberosa	white water lily	25

Emergent Seeding

C - Value	Ind. Status	Scientific Name	Common Name	Lb. per Acre
4	FACW-	Elymus virginicus	Virginia wild rye	1.000
4	FACW	Glyceria striata	fowl manna grass	0.125
4	OBL	Leersia oryzoides	rice cut grass	1.500
4	FACW+	Spartina pectinata	cord grass	0.500
7	OBL	Acorus calamus	sweet flag	0.250
4	OBL	Alisma subcordatum	common water plantain	0.063
4	OBL	Asclepias incarnata	swamp milkweed	0.125
		Bidens sp.	tickseed	0.500
3	OBL	Eleocharis intermedia	matted spike rush	0.063
3	OBL	Eleocharis obtusa	blunt spike rush	0.063
5	OBL	Eleocharis smallii	marsh spike rush	0.063
5	OBL	Iris virginica shrevei	blue flag	0.250
4	FAC	Juncus dudleyi	Dudley's rush	0.031
8	OBL	Juncus nodosus	joint rush	0.125
		Polygonum sp.	smartweed sp.	1.500
4	OBL	Sagittaria latifolia	common arrowhead	0.250
6	OBL	Scirpus acutus	hardstem bulrush	0.250
4	OBL	Scirpus atrovirens	dark green rush	0.500
4	OBL	Scirpus fluviatilis	river bulrush	0.250
5	OBL	Scirpus pungens	chairmaker's rush	0.250
5	OBL	Scirpus validus creber	soft stem bulrush	0.250
6	OBL	Sparganium eurycarpum	bur reed	0.375
			Total Weight of Seeds (lbs)	**8.283**
Cover Crop:				
0	FACW	Echinochloa crus-galli	barnyard grass	3.000

CONTROL POINTS

POINT NO.	STATION	OFFSET	NORTHING	EASTING	ELEVATION
A1	131+42.42	100.0' LT	2047491.69	1079800.55	718.00
A2	131+41.51	115.0' LT	2047480.02	1079791.09	718.00
A3	131+77.08	115.0' LT	2047504.04	1079764.85	718.00
A4	131+77.99	100.0' LT	2047515.71	1079774.32	718.00
B1	131+22.80	95.5' LT	2047481.76	1079818.06	722.00
B2	131+19.36	114.5' LT	2047465.42	1079807.76	722.00
B3	131+27.87	130.0' LT	2047459.76	1079791.04	722.00
B4	131+41.34	135.5' LT	2047464.82	1079777.41	722.00
B5	131+60.63	135.1' LT	2047478.09	1079763.41	722.00
B6	131+65.55	131.0' LT	2047484.45	1079762.56	722.00
B7	131+82.93	131.0' LT	2047496.19	1079749.74	722.00
B8	131+96.71	119.5' LT	2047513.97	1079747.35	722.00
B9	132+00.15	100.5' LT	2047530.31	1079757.64	722.00
B10	131+86.37	84.0' LT	2047533.18	1079778.94	722.00
B11	131+36.58	84.0' LT	2047499.54	1079815.67	722.00
C1	130+00.95	111.6' LT	2047387.62	1079897.07	715.00
C2	129+94.48	118.7' LT	2047377.99	1079897.03	715.00
C3	129+94.81	125.8' LT	2047373.01	1079892.01	715.00
C4	129+97.05	127.8' LT	2047373.02	1079889.00	715.00
C5	130+02.80	128.5' LT	2047376.40	1079884.29	715.00
C6	130+13.62	122.6' LT	2047388.05	1079880.29	715.00
C7	130+16.23	118.2' LT	2047393.05	1079881.33	715.00
C8	130+16.23	114.9' LT	2047395.46	1079883.53	715.00
C9	130+11.23	109.9' LT	2047395.77	1079890.60	715.00
C10	130+04.65	109.9' LT	2047391.33	1079895.45	715.00
D1	129+94.16	101.2' LT	2047390.67	1079909.08	718.00
D2	129+31.52	170.1' LT	2047297.55	1079908.73	718.00
D3	129+50.02	211.9' LT	2047279.21	1079866.85	718.00
D4	130+49.59	211.9' LT	2047346.46	1079793.42	718.00
D5	130+59.43	203.7' LT	2047359.16	1079791.71	718.00
D6	130+76.47	109.7' LT	2047439.99	1079842.63	718.00
D7	130+66.63	97.9' LT	2047442.04	1079857.84	718.00
D8	130+01.56	97.9' LT	2047398.09	1079905.83	718.00
E1	130+88.52	156.0' LT	2047413.99	1079802.48	721.00
E2	130+91.24	151.0' LT	2047419.51	1079803.85	721.00
E3	131+36.07	156.0' LT	2047446.10	1079767.41	721.00
E4	131+36.07	151.0' LT	2047449.79	1079770.79	721.00
E5	131+55.75	139.6' LT	2047471.51	1079763.99	721.00
E6	131+50.83	138.7' LT	2047468.85	1079768.22	721.00
E7	131+51.88	132.9' LT	2047473.82	1079771.36	721.00
E8	131+57.29	131.1' LT	2047478.79	1079768.58	721.00
F1	129+29.75	142.3' LT	2047316.86	1079928.82	721.00
F2	129+43.20	127.5' LT	2047336.86	1079928.89	721.00



LEGEND

- EROSION CONTROL BLANKET SEEDING (SPECIAL); EMERGENT SEEDING - 0.28 ACRE TOPSOIL FURNISH & PLACE, 4"
- EROSION CONTROL BLANKET SEEDING (SPECIAL); WET-MESIC SEEDING - 0.12 ACRE TOPSOIL FURNISH & PLACE, 4"
- EROSION CONTROL BLANKET SEEDING (SPECIAL); PRAIRIE SEEDING - 0.64 ACRE TOPSOIL FURNISH & PLACE, 4"
- WETLAND PLANTS; 50 EACH TOPSOIL FURNISH & PLACE, 4"

NWL=718.00 (WETLAND BOTTOM)
HWL=721.00
DETAINED VOLUME=1.2 AC FT
OVERFLOW WEIR ELEVATION=721.00
MINIMUM BERM EL = 722.2

SEDIMENTATION BASIN

Total Cut = 993 Cubic Yards
Total Fill = 4 Cubic Yards
Area = 993 Sq Yards
Balance = 989 Cubic Yards

Elevation Range Used

718.000 to 719.000	Cut = 34	Fill = 0	
719.000 to 720.000	Cut = 57	Fill = 0	
720.000 to 721.000	Cut = 94	Fill = 0	
721.000 to 722.000	Cut = 172	Fill = 0	
722.000 to 723.000	Cut = 213	Fill = 1	
723.000 to 724.000	Cut = 180	Fill = 0	
724.000 to 725.000	Cut = 131	Fill = 1	
725.000 to 726.000	Cut = 82	Fill = 1	
726.000 to 727.000	Cut = 30	Fill = 1	

DETENTION BASIN

Total Cut = 2563 Cubic Yards
Total Fill = 154 Cubic Yards
Area = 2563 Sq Yards
Balance = 2409 Cubic Yards

Elevation Range Used

715.000 to 716.000	Cut = 18	Fill = 0
716.000 to 717.000	Cut = 33	Fill = 0
717.000 to 718.000	Cut = 322	Fill = 0
718.000 to 719.000	Cut = 531	Fill = 0
719.000 to 720.000	Cut = 613	Fill = 0
720.000 to 721.000	Cut = 668	Fill = 16
721.000 to 722.000	Cut = 319	Fill = 91
722.000 to 723.000	Cut = 60	Fill = 47
723.000 to 724.000	Cut = 0	Fill = 9

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FAU 2647 – BUTTERFIELD ROAD DETENTION POND GRADING PLAN

SCALE: 1:20 DRAWN BY: PMM
DATE: 12/5/2005 CHECKED BY: BLL

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12/5/2005