Illinois Department of Transportation
2300 South Dirksen Parkway / Springfield, Illinois / 62764

February 25, 2016

SUBJECT: FAU 2552 (Washington Street)
Section 14-00161-00-BR (Naperville)
Will County
Contract No. 61C38
Item 92
March 4, 2016 Letting
Addendum (A)

NOTICE TO PROSPECTIVE BIDDERS:

Attached is an addendum to the plans and/or the proposal. This addendum involves revised, added and/or deleted material.

1. **Revised Plan Sheets 2, 3 thru 14, 19, 20, 22, 24, 27, 30, 38, 40, 43 thru 47, 49, 54, 56, 59, 76 thru 86.**
2. **Revised the Schedule of Prices.**
3. **Revised Special Provisions Table of Contents.**
4. **Added pages 79A thru 79M to the Special Provisions.**

Prime contractors must utilize the enclosed material when preparing their bid and must include any Schedule of Prices changes in their bidding proposal.

Bidders using computer-generated bids are cautioned to reflect any and all Schedule of Prices changes, if involved, into their computer programs.

Very truly yours,

Maureen M. Addis, P.E.
Acting Bureau Chief of Design and Environment

By: Ted B. Walschleger, P.E.
Engineer of Project Management

COUNTY NAME	CODE	DIST	SECTION NUMBER	PROJECT NUMBER	ROUTE
WILL	197	01	14-00161-00-BR (NAPERVILLE)	BRS-M-4003/356/000	FAU 2552

ITEM NUMBER	PAY ITEM DESCRIPTION		UNIT OF MEASURE	QUANTITY		UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
A2004420	T-GINKGO BILOBA 2-1/2		EACH	3.000	X			=		
A2004620	T-GLEDIT TRI IN 2-1/2		EACH	2.000	X			=		
A2006520	T-QUERCUS BICOL 2-1/2		EACH	7.000	X			=		
K0013030	P PL WETLND 2X4 DPPLG		UNIT	1.100	X			=		
K1005863	TREE ROOT PRUNING	*	EACH	10.000	X			=		
XX006729	PERIM EROS BAR ROL EX		FOOT	136.000	X			=		
X0320047	REM EX PPC DECK BEAMS		SQ FT	875.000	X			=		
X0322936	REMOV EX FLAR END SEC		EACH	2.000	X			=		
X0324455	DRILL/SET SOLD P SOIL		CU FT	3,633.000	X			=		
X0324456	DRILL/SET SOLD P ROCK		CU FT	796.000	X			=		
X2501700	SEEDING CL 3 MOD	*	ACRE	0.100	X			=		
X2502014	SEEDING CL 4A MOD	*	ACRE	0.100	X			=		
X2510635	HD EROS CONT BLANK SP	*	SQ YD	1,048.000	X			=		
X2511630	EROS CONT BLANKET SPL		SQ YD	1,641.000	X			=		
X4401198	HMA SURF REM VAR DP		SQ YD	1,582.000	X			=		

* Revised 2/25/16

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
X5030305	CONC WEARING SURF 5	SQ YD	681.000			X =		
X5860110	GRANULAR BACKFILL STR	CU YD	198.000			X =		
X6013600	PIPE UNDERDRAIN 4 MOD	FOOT	42.000			X =		
X6330705	RUB RAIL	FOOT	288.000			X =		
X7010216	TRAF CONT & PROT SPL	L SUM	1.000			X =		
X8140115	HANDHOLE TO BE ADJUST	EACH	1.000			X =		
X8440102	RELOC EX LUMINAIRE	EACH	2.000			X =		
X8900010	TEMP TR SIG INTERCON	EACH	2.000			X =		
X8950450	REM EX UNDRGRD C	FOOT	131.000			X =		
Z0004560	BRIDGE WEAR SURF REM *	SQ YD	584.000			X =		
Z0005216	HMA STAB 6 AT SPBGR	SQ YD	352.000			X =		
Z0007118	UNTREATED TIMBER LAG	SQ FT	1,678.000			X =		
Z0012754	STR REP CON DP = < 5	SQ FT	36.000			X =		
Z0013797	STAB CONSTR ENTRANCE	SQ YD	62.000			X =		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.000			X =		

* Revised 2/25/16

ITEM NUMBER	PAY ITEM DESCRIPTION		UNIT OF MEASURE	QUANTITY		UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
Z0018900	DRILL-GROUT DOW BARS		EACH	552.000	X			=		
Z0026404	FUR SOLDIER PILES WS		FOOT	814.000	X			=		
Z0030850	TEMP INFO SIGNING		SQ FT	51.000	X			=		
Z0033028	MAINTAIN LIGHTING SYS		CAL MO	5.000	X			=		
Z0046304	P UNDR FOR STRUCT 4		FOOT	239.000	X			=		
Z0049790	RELOC NAME PLATES		EACH	1.000	X			=		
Z0076600	TRAINEES		HOUR	500.000	X	0	.80	=	400	.00
Z0076604	TRAINEES TPG		HOUR	500.000	X	15	.00	=	7,500	.00
20100110	TREE REMOV 6-15		UNIT	162.000	X			=		
20101000	TEMPORARY FENCE	*	FOOT	198.000	X			=		
20101100	TREE TRUNK PROTECTION		EACH	3.000	X			=		
20101300	TREE PRUN 1-10	*	EACH	5.000	X			=		
20101350	TREE PRUN OVER 10	*	EACH	5.000	X			=		
20200100	EARTH EXCAVATION	*	CU YD	501.000	X			=		
20400800	FURNISHED EXCAVATION	*	CU YD	252.000	X			=		

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY		UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
20800150	TRENCH BACKFILL	CU YD	36.000	X			=		
21101505	TOPSOIL EXC & PLAC *	CU YD	463.000	X			=		
25000210	SEEDING CL 2A	ACRE	0.300	X			=		
25000314	SEEDING CL 4B	ACRE	0.100	X			=		
25200200	SUPPLE WATERING *	UNIT	50.000	X			=		
28000250	TEMP EROS CONTR SEED	POUND	56.000	X			=		
28000305	TEMP DITCH CHECKS	FOOT	140.000	X			=		
28000400	PERIMETER EROS BAR	FOOT	1,356.000	X			=		
28000510	INLET FILTERS	EACH	4.000	X			=		
28001100	TEMP EROS CONTR BLANK	SQ YD	2,688.000	X			=		
28100105	STONE RIPRAP CL A3	SQ YD	30.000	X			=		
28100107	STONE RIPRAP CL A4	SQ YD	120.000	X			=		
28200200	FILTER FABRIC	SQ YD	150.000	X			=		
31101180	SUB GRAN MAT B 2	SQ YD	780.000	X			=		
40600635	LEV BIND MM N70	TON	111.000	X			=		

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE DOLLARS	UNIT PRICE CENTS	TOTAL PRICE DOLLARS	TOTAL PRICE CTS
40600982	HMA SURF REM BUTT JT	SQ YD	50.000 X		=		
40600990	TEMPORARY RAMP	SQ YD	394.000 X		=		
40603565	P HMA SC "E" N70	TON	155.000 X		=		
40800027	P BIT MATLS PR CT	POUND	1,068.000 X		=		
42400100	PC CONC SIDEWALK 4	SQ FT	7,022.000 X		=		
44000500	COMB CURB GUTTER REM	FOOT	890.000 X		=		
44000600	SIDEWALK REM	SQ FT	752.000 X		=		
44004250	PAVED SHLD REMOVAL	SQ YD	152.000 X		=		
44200132	PAVT PATCH T2 11	SQ YD	17.000 X		=		
50102400	CONC REM	CU YD	208.400 X		=		
50104000	BRIDGE RAIL REMOVAL	FOOT	219.000 X		=		
50200100	STRUCTURE EXCAVATION	CU YD	329.800 X		=		
50200300	COFFERDAM EXCAVATION	CU YD	124.200 X		=		
50201101	COFFERDAM TYP 1 LOC 1	EACH	1.000 X		=		
50201102	COFFERDAM TYP 1 LOC 2	EACH	1.000 X		=		

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY		UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
50201103	COFFERDAM TYP 1 LOC 3	EACH	1.000	X			=		
50300225	CONC STRUCT	CU YD	324.800	X			=		
50300255	CONC SUP-STR	CU YD	62.100	X			=		
50300260	BR DECK GROOVING	SQ YD	657.000	X			=		
50300300	PROTECTIVE COAT	SQ YD	985.000	X			=		
50400505	P P CONC DK BM 27 DP	SQ FT	2,625.000	X			=		
50500105	F & E STRUCT STEEL	L SUM	1.000	X			=		
50500505	STUD SHEAR CONNECTORS	EACH	493.000	X			=		
50800205	REINF BARS, EPOXY CTD	POUND	54,110.000	X			=		
50800515	BAR SPLICERS	EACH	110.000	X			=		
50901720	BICYCLE RAILING	FOOT	452.000	X			=		
50901750	PARAPET RAILING	FOOT	219.000	X			=		
52000110	PREF JT STRIP SEAL	FOOT	176.000	X			=		
54213657	PRC FLAR END SEC 12	EACH	1.000	X			=		
54213669	PRC FLAR END SEC 24	EACH	1.000	X			=		

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY		UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
550A0050	STORM SEW CL A 1 12	FOOT	33.000	X			=		
550A0410	STORM SEW CL A 2 24	FOOT	14.000	X			=		
550A0640	STORM SEW CL A 3 12	FOOT	40.000	X			=		
55100500	STORM SEWER REM 12	FOOT	74.000	X			=		
55101200	STORM SEWER REM 24	FOOT	40.000	X			=		
58700300	CONCRETE SEALER	SQ FT	1,697.000	X			=		
59000200	EPOXY CRACK INJECTION	FOOT	113.000	X			=		
59100100	GEOCOMPOSITE WALL DR	SQ YD	310.000	X			=		
60100060	CONC HDWL FOR P DRAIN	EACH	1.000	X			=		
60218500	MAN TA 4 DIA T3F&G	EACH	1.000	X			=		
60219300	MAN TA 4 DIA T11F&G	EACH	1.000	X			=		
60221100	MAN TA 5 DIA T1F CL	EACH	1.000	X			=		
60255500	MAN ADJUST	EACH	3.000	X			=		
60260100	INLETS ADJUST	EACH	1.000	X			=		
60500040	REMOV MANHOLES	EACH	1.000	X			=		

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY		UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
60500060	REMOV INLETS	EACH	2.000	X			=		
60603800	COMB CC&G TB6.12	FOOT	447.000	X			=		
60604400	COMB CC&G TB6.18	FOOT	457.000	X			=		
63000001	SPBGR TY A 6FT POSTS	FOOT	600.000	X			=		
63100085	TRAF BAR TERM T6	EACH	4.000	X			=		
63100167	TR BAR TRM T1 SPL TAN	EACH	4.000	X			=		
63200310	GUARDRAIL REMOV	FOOT	958.000	X			=		
67100100	MOBILIZATION	L SUM	1.000	X			=		
70106800	CHANGEABLE MESSAGE SN	CAL MO	10.000	X			=		
70107005	PAVT MK BLKOUT TAPE 5	FOOT	3,262.000	X			=		
70107007	PAVT MK BLKOUT TAPE 7	FOOT	325.000	X			=		
70300100	SHORT TERM PAVT MKING	FOOT	1,000.000	X			=		
70300510	PAVT MARK TAPE T3 L&S	SQ FT	176.000	X			=		
70300520	PAVT MARK TAPE T3 4	FOOT	10,485.000	X			=		
70300540	PAVT MARK TAPE T3 6	FOOT	1,100.000	X			=		

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
70301000	WORK ZONE PAVT MK REM	SQ FT	5,735.000			X =		
70400100	TEMP CONC BARRIER	FOOT	325.000			X =		
70400200	REL TEMP CONC BARRIER	FOOT	325.000			X =		
70600235	IMP ATTN TEMP FRD TL2	EACH	2.000			X =		
70600320	IMP ATTN REL FRD TL2	EACH	2.000			X =		
72400710	RELOC SIGN PANEL T1	SQ FT	13.000			X =		
78000200	THPL PVT MK LINE 4	FOOT	1,080.000			X =		
78000400	THPL PVT MK LINE 6	FOOT	24.000			X =		
78005110	EPOXY PVT MK LINE 4	FOOT	493.000			X =		
78200410	GUARDRAIL MKR TYPE A	EACH	16.000			X =		
78201000	TERMINAL MARKER - DA	EACH	4.000			X =		
81028200	UNDRGRD C GALVS 2	FOOT	196.000			X =		
81028410	UNDRGRD C PVC 6	FOOT	381.000			X =		
81603045	UD 3#6 #6G XLPUSE 1	FOOT	306.000			X =		
81800330	A CBL 3-1C6 MESS WIRE	FOOT	387.000			X =		

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY		UNIT PRICE DOLLARS	UNIT PRICE CENTS		TOTAL PRICE DOLLARS	TOTAL PRICE CTS
83010600	LT P A 50MH 15MA	EACH	2.000	X			=		
83057405	LT P WD 70 CL3 15MA	EACH	1.000	X			=		
83600300	LIGHT POLE FDN 30D	FOOT	26.000	X			=		
84200500	REM LT UNIT SALV	EACH	2.000	X			=		
84200804	REM POLE FDN	EACH	2.000	X			=		
84400405	RELOC EX WOOD POLES	EACH	1.000	X			=		
85000200	MAIN EX TR SIG INSTAL	EACH	2.000	X			=		
89502376	REBUILD EX HANDHOLE	EACH	1.000	X			=		

TOTAL $

NOTE:

1. EACH PAY ITEM SHOULD HAVE A UNIT PRICE AND A TOTAL PRICE.
2. THE UNIT PRICE SHALL GOVERN IF NO TOTAL PRICE IS SHOWN OR IF THERE IS A DISCREPANCY BETWEEN THE PRODUCT OF THE UNIT PRICE MULTIPLIED BY THE QUANTITY.
3. IF A UNIT PRICE IS OMITTED, THE TOTAL PRICE WILL BE DIVIDED BY THE QUANTITY IN ORDER TO ESTABLISH A UNIT PRICE.
4. A BID MAY BE DECLARED UNACCEPTABLE IF NEITHER A UNIT PRICE NOR A TOTAL PRICE IS SHOWN.

* Revised 2/25/16

INDEX OF SPECIAL PROVISIONS

SPECIAL PROVISIONS

EROSION CONTROL BLANKET (SPECIAL)

This Special Provision revises Section 251 of the Standard Specifications for Road and Bridge Construction to eliminate the use of Excelsior Blanket for Erosion Control Blanket. This work shall consist of furnishing, transporting, and placing 100 % biodegradable erosion control blanket over seeded areas as detailed on the plans, according to Section 251 except as modified herein.

Delete Article 1081.10(a) Excelsior Blanket.

Delete the first paragraph of Article 1081.10 (b) Knitted Straw Mat and substitute the following:

> Knitted Straw Mat. Knitted straw mat shall be a machine-produced mat of 100% clean, weed free agricultural straw. The blanket shall be of consistent thickness with the straw evenly distributed over the entire area of the blanket. The blanket shall be covered on top and bottom sides with a 100% biodegradable woven natural organic fiber netting such as North American Green S150BN or equal. No plastic netting will be allowed. The top netting shall consist of machine directional strands formed from two intertwined yarns with cross directional strands interwoven through the twisted machine stands to form an approximate 0.50 x 1.0 (1.27 x 2.54 cm) mesh. The blanket shall be sewn together on 1.50 inch (3.81 cm) centers with degradable thread. The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2-5 inches (5-12.5cm) from the edge) as an overlap guide for adjacent mats.
>
> Short-term photodegradable erosion control blanket will not be allowed.

Delete Article 1081.10(d) Wire Staples.

Add the following to Article 1081.10 (e) Wood Stakes:

> Biodegradable plastic stakes will be allowed. The biodegradable plastic anchor shall be approximately 6 in (15.24 cm) in length. No metal wire stakes will be allowed.

HEAVY DUTY EROSION CONTROL BLANKET (SPECIAL)

This Special Provision revises Section 251 of the Standard Specifications for Road and Bridge Construction to eliminate the use of Excelsior Blanket for Erosion Control Blanket. This work shall consist of furnishing, transporting, and placing 100 % biodegradable erosion control blanket over seeded areas with biodegradable anchors as detailed on the plans, according to Section 251 except as modified herein.

Delete Article 1081.10(c) (1) Excelsior Blanket.

Delete the first paragraph of Article 1081.10 (c) (2) Knitted Straw Mat and substitute the following:

> Knitted Straw Mat. The blanket shall be machine-produced 100% biodegradable blanket of 100% coconut fiber with a functional longevity of up to 24 months. The blanket shall be of consistent thickness with the coconut evenly distributed over the entire area of the mat. The blanket shall be covered on the top and bottom sides with 100% biodegradable woven natural organic fiber netting such as North American Green C125BN or equal. The netting shall consist

of machine directional strands formed from two intertwined yarns with cross directional strands interwoven through the twisted machine strands to form an approximate 0.50 x 1.0 (1.27 x 2.54 cm) mesh. The blanket shall be sewn together on 1.50 inch (3.81 cm) centers with degradable thread. The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2-5 inches (5-12.5cm) from the edge) as an overlap guide for adjacent mats.

Delete the third sentence to Article 1081.10(d) Wire Staples and revise to the following:

The staples for heavy duty erosion control blanket shall be as specified here, except that the legs shall be 10 in. (250 mm) or longer.

Add the following to Article 251.05 Method of Measurement:

Heavy Duty Erosion Control Blanket, Special will be measured for payment in place in square yards (square meters) of actual surface areas covered.

Add the following to Article 251.06 Basis of Payment:

This work will be paid for at the contract unit price per square yard (square meter) for HEAVY DUTY EROSION CONTROL BLANKET, SPECIAL.

PLANTING SEDGE MEADOW PLUGS/PLANTING WETLAND PLUGS

This work shall consist of furnishing and installing sedge meadow and/or wetland plugs and goose grid barrier as shown in the details on the plans and only at locations as directed by the Engineer.

Add the following to Article 254.02 Materials:

All plants shall be healthy, vigorous, and true to species and variety. All materials shall be provided by a certified nursery and shall be free of pests and disease. All plant materials shall comply with State and federal laws with respect to inspection for plant diseases and infestations. Written approval shall be necessary for substitutions.

Plugs shall be obtained as close to possible to the project site. Written approval will be required for substitutions and plant material purchased outside a 150 mile radius of the site.

Delete Article 254.04(b) Planting Time and substitute the following:

Plugs shall only be planted between May 1 and June 15. Approval from the Engineer must be received for all planting dates.

Add the following to Article 254.05 Transporting and Storing Plants:

Each species should be handled and packed in the manner approved for the plant, having regard for the soil climatic conditions at the time and place of digging and delivery, and for the time that will be consumed for transit and delivery.

Plant materials shall be packed to ensure adequate protection against damage during transit. The plants shall be protected with wet material to ensure that the plant materials are delivered in a moist and cool condition. The vehicle should be ventilated to prevent overheating.

Plant materials shall be stored in a shaded area. Watering shall occur to maintain plant vigor during on-site storage.

An on-site inspection will be made prior to the installation of plant material. Any plant material not meeting specification (that being of good health) must be moved off the site.

Delete Article 254.06 Layout of Planting and substitute the following:

When plants are specified to be planted in prepared soil planting beds, the planting bed shall be approved by the Engineer prior to planting. The Contractor shall be responsible for all plant layout. The layout must be performed by qualified personnel. The planting locations must be laid out as shown in the landscape plan. Plant plugs according to planting plan in overlapping zones to provide a natural gradient. Bed limits shall be painted or flagged. Individual plants layout shall be marked prior to installation. The Engineer will contact the Roadside Development Unit at (847) 705-4171 to approve the layout prior to installation. Allow a minimum of three (3) days prior to installation for approval.

Delete Article 254.07 (b) Planting Procedures and substitute the following:

When planting plugs in areas as shown on the plans or as directed by the Engineer, the following work shall be performed prior to planting:

- Permanent Seeding and Erosion Control Blanket must be installed prior to planting plugs to avoid damage to plantings.

- Trees and shrubs must be installed first to establish proper layout and to avoid damage to other plantings.

Install plugs through erosion control blanket with planting bar. Planting holes shall be as deep or slightly deeper than the plug roots to allow placing the plant without bending roots. Plant shall be placed flush with the earth surface. Hole shall be filled with soil carefully to avoid damage to roots and to leave no voids and pressed to firm earth surface.

Contractor shall provide and maintain all equipment necessary for planting, including watering equipment , water, and hoses. Immediately after planting, thoroughly water plant beds. Do not wash soil onto crowns of plants. The soil surface should be damp for the first three weeks following planting.

Install Goose Grid Barrier(s) along the perimeters of wetland planting pods (groupings) to prevent geese from uprooting and damaging the native plug plantings. Goose Grid Barrier(s) shall be installed at the time of planting to protect plugs from predation. The Contractor will not be relieved in any way from the responsibility of protecting plugs from geese predation due to lack of proper maintenance of Goose Grid Barriers.

1. Posts – 1" x 4" x 48" square Oak stakes or metal posts place 7-10' on center
2. Poultry fence, 24" with ¾" x 1" grid, along the perimeter with cable ties.

3. Install bailing twine, from post top to post top (to form an "X"), to prevent the geese from entering the exclosure from the air.
4. Repair as necessary to remain effective for 12 months.
5. Remove and dispose when directed by the Engineer.

Delete the first sentence of Article 254.08 Mulching and substitute the following:

The plugs are not required to be mulched.

Delete Article 254.09 (b) Period of Establishment and substitute the following:

Plugs must undergo a 30-day period of establishment. Additional watering shall be performed not less than three times a week for four weeks following installation. Water shall be applied at the rate of at least 2 gallons per square foot. Should excess moisture prevail, the Engineer may delete any or all of the additional watering cycles. In severe weather, the Engineer may require additional watering.

A spray nozzle that does not damage small plants must be used when watering native plant plugs. Water shall be applied at the base of the plant to keep as much water as possible off plant leaves. The plants to be watered and the method of application will be approved by the Engineer. The Contractor will not be relieved in any way from the responsibility for unsatisfactory plants due to the amount of watering.

Add the following to Article 254.10 Method of Measurement:

Disposal of debris (rock, stones, concrete, bottles, plastic bags, Goose Grid Barrier, etc.) removed from the plug plantings as specified in Article 202.03.

Delete Article 253.17 Basis of Payment and substitute the following:

a) Payment for Goose Grid Barrier shall be included in the contract unit price of the Perennial Plants, Wetland Type Plug and/or Perennial Plants, Sedge Meadow Plug pay item.

b) The unit price shall include the cost of all materials, equipment, labor, plant care, removal, disposal and incidentals required to complete the work as specified herein and to the satisfaction of the Engineer.

PLANTING WOODY PLANTS

This work shall consist of planting woody plants as specified in Section 253 of the Standard Specifications with the following revisions:

Delete Article 253.03 Planting Time and substitute the following:

Spring Planting. This work shall be performed between March 15th and May 31st except that evergreen planting shall be performed between March 15th and April 30th in the northern zone.

Add the following to Article 253.03 (a) (2) and (b):

All plants shall be obtained from Illinois Nurserymen's Association or appropriate state chapter nurseries. All trees and shrubs shall be dug prior to leafing out (bud break) in the spring or when plants

have gone dormant in the fall, except for the following species which are only to be dug prior to leafing out in the spring:

- Maple (Acer spp.)
- Buckeye (Aesculus spp.)
- Serviceberry (Amelanchier spp.)
- Hackberry (Celtis occidentalis)
- Hawthorn (Crataegus spp.)
- Black Walnut (Juglans nigra)
- Crabapple (Malus spp.)
- Black Tupelo (Nyssa sylvatica)
- American Hophornbeam (Ostraya virginiana)
- Oak (Quercus spp.)
- Baldcypress (Taxodium distichum)
- American Linden (Tilia americana)

Fall Planting. This work shall be performed between October 1st and November 30th except that evergreen planting shall be performed between August 15th and October 15th.

Planting dates are dependent on species of plant material and weather. Planting might begin or end prior or after above dates as approved by the Engineer. Do not plant when soil is muddy or during frost. No plant material shall be installed prior to the final grade of the planting soil. Trees must be installed first to establish proper layout and to avoid damage to other plantings.

Add the following to Article 253.05 Transportation:

Cover plants during transport. Plant material transported without cover shall be automatically rejected.

Delete the third sentence of Article 253.07 and substitute the following:

The Engineer will place the marking flags. Allow a minimum of seven working (7) days prior to installation for layout. The Contractor shall be responsible for:

1. Providing marking flags to the Engineer for locating plants.
2. Contacting utility companies to identify any conflicts with the proposed planting locations after flags have been placed.
3. Obtaining approval from the Engineer for any relocation of proposed plantings due to utility conflicts, or other conflicts.

Delete Article 253.08 Excavation of Plant Holes and substitute the following:

Protect structures, utilities, sidewalks, knee walls, fences, pavements, utility boxes, other facilities, lawns and existing plants from damage caused by planting operations.

Holes for trees shall be dug at the location indicated by the marking stakes. Holes for shrubs shall be dug within the marked outline of the planting bed. The spacing of plants will be designated on the plans. Spacing shall be measured form center-to–center, and alternate rows shall be staggered.

Excavate with sides vertical, bottom flat but with high center for drainage. Deglaze sides. The planting hole shall be twice the diameter of the root ball if possible, but in no case shall the hole be less than twelve (12) inches wider. Any soil covering the tree's root flair shall be removed to expose the crown, along with any secondary root growth, prior to planting. Remove all excavated subsoil from the site and dispose as specified in Article 202.03. The excavated material shall not be stockpiled on turf or in ditches.

Delete the third and fourth paragraphs of Article 253.10 Planting Procedures and Article 253.10 (a) and substitute the following:

Trees, shrubs, and vines shall be thoroughly watered with a method approved by the Engineer. Approved watering equipment shall be at the site of the work and in operational condition PRIOR TO STARTING the planting operation and DURING all planting operations OR PLANTING WILL NOT BE ALLOWED.

Set plants in the excavated hole with top of ball 2 to 3 inches above finished grade. Add soil as required under ball to achieve plumb. Remove all burlap and wire baskets from top three quarters (3/4) of the root ball. The remaining burlap shall be loosened and scored to provide the root system quick contact with the soil. All ropes or wires shall be removed from the root ball and tree trunk.

The hole shall be half (1/2) filled with soil, firmly packed, then saturated with water. After the water has soaked in, more soil shall be added to the top of the hole, and then the hole shall be saturated again. Maintain plumb during backfilling. Visible root flair shall be left exposed, uncovered by the addition of soil. By mounding up the soil around the hole, create a saucer depression around the tree to hold future water. In most cases, the backfill around the root ball shall be the same soil that was removed from the hole. Where rocks, gravel, heavy clay or other debris are encountered, clean top soil shall be used. Do not backfill excavation with subsoil.

Delete Article 253.11 and substitute the following:

Within 24 hours after planting, mulch shall be placed around all plants in the entire mulched bed or at the base of each tree to its dripline specified to a depth of 4 inches (100 mm). No weed barrier fabric will be required for tree and shrub planting.

The mulch shall consist of wood chips or shredded tree bark free not to exceed two (2) inches in its largest dimension, free of foreign matter, sticks, stones, and clods. A sample and request for material inspection form must be supplied to the Engineer for approval prior to performing any work.

Care shall be taken not to bury leaves, stems, or vines under mulch material. The mulch shall be pulled away 6" from the tree trunk, allowing the root flair at the base of the tree to be exposed and free of mulch contact. All finished mulch areas shall be left smooth and level to maintain uniform surface and appearance. After the mulch placement, any debris or piles of material shall be immediately removed from the right of way, including raking excess mulch out of turf areas.

Delete Article 253.12 Wrapping and substitute the following:

Any paper or cardboard trunk wrap must be removed before placing the tree in the tree hole in order to inspect the condition of the trunks. Immediately after planting, wrap newly installed trees with a simple cylinder of galvanized welded wire, placed 4" – 6" out from the trunk of the tree. The galvanized welded wire shall be 4' wide with 1" square mesh. The galvanized welded wire shall be secured to itself with single wire strands tied through the mesh. Trees shall be wrapped at time of planting, before the installation of mulch. The lower edge of the screen wire shall be in continuous contact with the ground

and shall extend up to the lowest major branch. Cut the bottom of the cylinder to fit a sloping ground, if necessary. No chicken wire nor hardware cloth will be allowed.

Add the following to Article 253.13 Bracing:

Trees required to be braced shall be braced within 24 hours of planting.

Add the following to the first paragraph of Article 253.14 Period of Establishment:

Prior to being accepted, the plants shall endure a period of establishment. This period shall begin as soon as the tree is installed and end in December of the same year.

Delete the last sentence of the first paragraph of Article 253.15 Plant Care and substitute the following:

This may require pruning, cultivating, tightening and repairing supports, repair of wrapping, and furnishing and applying sprays as necessary to keep the plants free of insects and disease. The Contractor shall provide plant care a minimum of every two weeks, or within 3 days following notification by the Engineer. All requirements for plant care shall be considered as included in the cost of the contract.

Delete the first paragraph of Article 253.15 Plant Care (a) and substitute the following:

During plant care additional watering shall be performed at least every two weeks during the months of May through December. The contractor shall apply a minimum of 35 gallons of water per tree, 25 gallons per large shrub, 15 gallons per small shrub, and 4 gallons per vine. The Engineer may direct the Contractor to adjust the watering rate and frequency depending upon weather conditions.

Add the following to Article 253.15 Plant Care (d):

The contractor shall inspect all trees, shrubs, and vines for pests and diseases at least every two weeks during the months of initial planting through final acceptance. Contractor must identify and monitor pest and diseases and determine action required to maintain the good appearance, health and, top performance of all plant material. Contractor shall notify the Engineer with their inspection findings and recommendations within twenty-four hours of findings. The recommendations for action by the Contractor must be reviewed and by the Engineer for approval/rejection. All approved corrective activities will be considered as included in the cost of the contract and shall be performed within 48 hours following notification by the Engineer.

Delete Article 253.17 Basis of Payment and substitute the following:

This work will be paid for at the contract unit price per each for TREES, SHRUBS, or VINES, of the species, root type, and plant size specified; and per unit for SEEDLINGS. Payment will be made according to the following schedule.

(a) Initial Payment. Upon completion of planting, mulch covering, wrapping, and bracing, 75 percent of the pay item(s) will be paid.

(b) Final Payment. Upon inspection and acceptance of the plant material, or upon execution of a third party bond, the remaining 25 percent of the pay item(s) will be paid."

PROTECTION OF EXISTING TREES

The Contractor shall be responsible for taking measures to minimize damage to the tree limbs, tree trunks, and tree roots at each work site. All such measures shall be included in the contract price for other work except that payment will be made for TEMPORARY FENCE, TREE ROOT PRUNING, and TREE PRUNING.

All work, materials and equipment shall conform to Section 201 and 1081 of the Standard Specifications except as modified herein.

A. Earth Saw Cut of Tree Roots (Root Pruning):

1. Whenever proposed excavation falls within a drip-line of a tree, the Contractor shall:

   a. Root prune 6-inches behind and parallel to the proposed edge of trench a neat, clean vertical cut to a minimum depth directed by the Engineer through all affected tree roots.

   b. Root prune to a maximum width of 4-inches using a "Vermeer" wheel, or other similar machine. Trenching machines will not be permitted.

   c. Exercise care not to cut any existing utilities.

   d. If during construction it becomes necessary to expose tree roots which have not been precut, the Engineer shall be notified and the Contractor shall provide a clean, vertical cut at the proper root location, nearer the tree trunk, as necessary, by means of hand-digging and trimming with chain saw or hand saw. Ripping, shredding, shearing, chopping or tearing will not be permitted.

   e. Top Pruning: When thirty percent (30%) or more of the root zone is pruned, an equivalent amount of the top vegetative growth or the plant material shall be pruned off within one (1) week following root pruning.

2. Whenever curb and gutter is removed for replacement, or excavation for removal of or construction of a structure is within the drip line/root zone of a tree, the Contractor shall:

   a. Root prune 6-inches behind the curbing so as to neatly cut the tree roots.

   b. Depth of cut shall be 12 inches for curb removal and replacement and 24 inches for structural work. Any roots encountered at a greater depth shall be neatly saw cut at no additional cost.

   c. Locations where earth saw cutting of tree roots is required will be marked in the field by the Engineer.

3. All root pruning work is to be performed through the services of a licensed arborist to be approved by the Engineer.

Root pruning will be paid for at the contract unit price each for TREE ROOT PRUNING, which price shall be payment for all labor, materials and equipment.

Tree limb pruning will be paid for at the contract unit price per each for TREE PRUNING (1 TO 10 INCH DIAMETER) and/or TREE PRUNING (OVER 10 INCH DIAMETER), which price shall included labor, materials, and equipment.

B. Temporary Fence:

1. The Contractor shall erect a temporary fence around all trees within the construction area to establish a "tree protection zone" before any work begins or any material is delivered to the jobsite. No work is to be performed (other than root pruning), materials stored or vehicles driven or parked within the "tree protection zone".

2. The exact location and establishment of the "tree protection zone" fence shall be approved by the Engineer prior to setting the fence.

3. The fence shall be erected on three sides of the tree at the drip-line of the tree or as determined by the Engineer.

4. All work within the "tree protection zone" shall have the Engineer's prior approval. All slopes and other areas not regarded should be avoided so that unnecessary damage is not done to the existing turf, tree root system ground cover.

5. The grade within the "tree protection zone" shall not be changed unless approved by the Engineer prior to making said changes or performing the work.

The fence shall be similar to wood lath snow fence (48 inches high), plastic poly-type or and other type of highly visible barrier approved by the Engineer. This fence shall be properly maintained and shall remain up until final restoration, unless the Engineer directs removal otherwise. Tree fence shall be supported using T-Post style fence posts. **Utilizing re-bar as a fence post will not be permitted.**

Temporary fence will be paid for at the contract unit price per foot for TEMPORARY FENCE, which price shall include furnishing, installing, maintaining, and removing.

C. Tree Limb Pruning:

1. The Contractor shall inspect the work site in advance and arrange with the Roadside Development Unit (847.705.4171) to have any tree limbs pruned that might be damaged by equipment operations at least one week prior to the start of construction. Any tree limbs that are broken by construction equipment after the initial pruning must be pruned correctly within 72 hours.

2. Top Pruning: When thirty percent (30%) or more of the root zone of a tree is pruned, an equivalent amount of the top vegetative growth or the plant material shall be pruned off within one (1) week following root pruning.

Tree limb pruning will be paid for at the contract unit price per each for TREE PRUNING (1 TO 10 INCH DIAMETER) and/or TREE PRUNING (OVER 10 INCH DIAMETER), which price shall include labor, materials, and equipment.

D. Removal of Driveway Pavement and Sidewalk:

1. In order to minimize the potential damage to the tree root system(s), the Contractor will not be allowed to operate any construction equipment or machinery within the "tree protection zone" located between the curb or edge of pavement and the right-of-way property line.

2. Sidewalk to be removed in the areas adjacent to the "tree protection zones" shall be removed with equipment operated from the street pavement. Removal equipment shall be Gradall (or similar method), or by hand or a combination of these methods. The method of removal shall be approved by the Engineer prior to commencing any work.

3. Any pavement or pavement related work that is removed shall be immediately disposed of from the area and shall not be stockpiled or stored within the parkway area under any circumstances.

E. Backfilling:

1. Prior to placing the topsoil and/or sod, in areas outside the protection zone, the existing ground shall be disked to a depth no greater than one (1"), unless otherwise directed by the Engineer. No grading will be allowed within the drip-line of any tree unless directed by the Engineer.

F. Damages:

1. In the event that a tree not scheduled for removal is injured such that potential irreparable damage may ensure, as determined by the Roadside Development Unit, the Contractor shall be required to remove the damage tree and replace it on a three to one (3:1) basis, at his own expense. The Roadside Development Unit will select replacement trees from the pay items already established in the contract.

2. The Contractor shall place extreme importance upon the protection and care of trees and shrubs which are to remain during all times of this improvement. It is of paramount importance that the trees and shrubs which are to remain are adequately protected by the Contractor and made safe from harm and potential damage from the operations and construction of this improvement. If the Contractor is found to be in violation of storage or operations within the "tree protection zone" or construction activities not approved by the Engineer, a penalty shall be levied against the Contractor with the monies being deducted from the contract. The amount of the penalty shall be two hundred fifty dollars ($250.00) per occurrence per day.

SEEDING, CLASS 3 (MODIFIED) – NORTHERN ILLINOIS SLOPE MIXTURE

This work shall consist of Seeding, Class 3(Modified) in areas as shown in the plans or a directed by the Engineer.

All work, materials, and equipment shall conform to Sections 250 and 1081 of the Standard Specifications except as modified herein.

The Class 3 (Modified) seed mixture shall be supplied in separate bags of the two mixture components: Temporary Cover and Permanent Grasses. All native species will be local genotype and will be from a radius of 150 miles from the project location. The Fertilizer is not required.

Article 250.07 Seeding Mixtures – Delete sentence 4. Add the following to Table 1 – Seeding Mixtures:

CLASS – TYPE	SEEDS	PURE LIVE SEED LB/ACRE
3 (Modified) Northern Illinois Slope Mixture		
	Andropogon scoparius (Little Bluestem)	17.0
	Bouteloua curtipendula (Side-Oats Grama)	15.0
	Elymus canadensis (Canada Wild Rye)	10.0
	Panicum virgatum (Switch Grass)	15.0
	Asclepias syriaca (Common Milkweed)	2.0
	Echinacea pallida (Pale Purple Coneflower)	10.0
	Rudbeckia hirta (Black-eyed Susan)	5.0
	Annual Ryegrass	25.0
	Oats, Spring	25.0

Notes:

1. The seeding time for this work shall be November 15 to April 15. Seeding done outside of this time frame will not be measure for payment.

2. Each bag shall be labeled. The label shall bear the dealer's guarantee of mixture and year grown, purity and germination, and date of test. Purity and germination tests no older than six months of the date of sowing must be submitted to verify all bulk seed required to achieve LB PLS specified.
3. No seed shall be sown until the purity testing has been completed for seeds to be used and shows the seed meets the noxious weed requirements.
4. Seed, which has become wet, moldy, or otherwise damaged will not be acceptable. Prior to application, the Engineer must approve seed mix in the bags.
5. The seedbed shall be prepared and approved by the Engineer prior to seeding. The Contractor shall delineate the perimeter of the seedbed with wooden lathe. The wooden lathe shall remain in place.
6. Temporary cover seed shall be kept separate from the Native Grass seed mixture. It shall be mixed on site under the direction of the Engineer.
7. In order to eliminate potential introduction of invasive or exotic species, all equipment used on the planting site shall be free of mud and/or plant material. This includes tires, mower decks, undercarriage, etc.
8. The Cover Crop shall be thoroughly mixed with the Class 3 (Modified) seed mix and seeded using a mechanical seeder that applies the seed uniformly at a depth of 1/4 inch. The seedbed shall be immediately mulched as specified.

If specified seed material is unavailable, the Engineer shall approve the substitutes in writing. Adjustments will be made at no cost to the contract. Approval of substitutes shall in no way waive any requirements of the contract.

Article 250.09 – Add Seeding, Class 3 (Modified) Northern Illinois Slope Mixture

Article 250.10 – Add Seeding, Class 3 (Modified) Northern Illinois Slope Mixture

SEEDING, CLASS 4A (MODIFIED)

This work shall consist of Seeding of Class 4A (Modified) in areas as shown in the plans or a directed by the Engineer.

All work, materials, and equipment shall conform to Sections 250 and 1081 of the Standard Specifications except as modified herein.

The Class 4A (Modified) seed mixture seed mixture shall be supplied in separate bags of the three mixture components: Temporary Cover, Permanent Grasses, and Forbs. All native species will be local genotype and verified that original seed collection source will be from a radius of 150 miles from the project. Fertilizer is not required.

Article 250.07 Seeding Mixtures – Delete sentence 4. Add the following to Table 1 – Seeding Mixtures:

CLASS – TYPE	SEEDS	PURE LIVE SEED LB/ACRE
4A (Modified) Low Profile Native Grass		17.0
	Andropogon scoparius (Little Bluestem)	5.0
	Bouteloua curtipendula (Side-Oats Grama)	10.0
	Elymus canadensis (Canada Wild Rye)	2.0

Temporary Cover	50 (lb/acre)
Annual Ryegrass	25.0
Oats, Spring	25.0

Notes:

1. Each bag shall be labeled. The label shall bear the dealer's guarantee of mixture and year grown, purity and germination, and date of test. Purity and germination tests no older than twelve (12) months of the date of sowing must be submitted to verify all bulk seed required to achieve LB PLS specified.
2. No seed shall be sown until the purity testing has been completed for seeds to be used and shows the seed meets the noxious weed requirements.
3. Seed, which has become wet, moldy, or otherwise damaged will not be acceptable. Prior to application, the Engineer must approve seed mix in the bags.
4. The seedbed shall be prepared and approved by the Engineer prior to seeding. The Contractor shall delineate the perimeter of the seedbed with wooden lathe. The wooden lathe shall remain in place.
5. Temporary cover seed shall be kept separate from the Native Grass seed mixture. It shall be mixed on site under the direction of the Engineer.
6. In order to eliminate potential introduction of invasive or exotic species, all equipment used on the planting site shall be free of mud and/or plant material. This includes tires, mower decks, undercarriage, etc.
7. The Cover Crop shall be thoroughly mixed with the Class 4A (Modified) seed mix and seeded using a mechanical seeder that applies the seed uniformly at a depth of 1/4 inch. The seedbed shall be immediately covered as specified.

If specified seed material is unavailable, the Engineer shall approve the substitutes in writing. Adjustments will be made at no cost to the contract. Approval of substitutes shall in no way waive any requirements of the contract.

Article 250.09 – Add Seeding, Class 4A (Modified)

Article 250.10 – Add Seeding, Class 4A (Modified)