



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

January 9, 2013

SUBJECT: FAP Route 338 (IL Route 59)
Section (112 & 113)WRS-5
DuPage County
Contract No. 60I31
Item No. 2, January 18, 2013 Letting
Addendum A

NOTICE TO PROSPECTIVE BIDDERS:

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

1. Revised the Schedule of Prices.
2. Revised the Table of Contents of the Special Provisions.
3. Revised pages 3, 4, 8, 9, 28, 36, 42-44, 46-48, 54, 59, 60, 90, 91, 197-199, 207-216, 430-433, and 531-545 of the Special Provisions.
4. Added pages 546-556 to the Special Provisions.
5. Revised sheets 1-6, 9-11, 16, 18, 19, 21-26, 31-39, 41, 66-69, 72, 87, 88, 91, 92, 96-98, 112, 114, 115, 123, 126, 127, 156, 159, 160, 173, 176, 192, 195, 208, 211, 219, 222, 223, 226, 229, 230, 233, 235-243, 257, 258, 261, 262, 320, 322-324, 336, 344, 361, 363, 383, 384, 391, 393, 448, 453, 460, 463, 465, 468, 542, 551, 555, 558-560, 573, 653-658, 663-672, 674-683, 811-814, 823-827, 835, 836, 852-858, and 866-870 of the Plans.
6. Added sheets 83A, 98A, 234A-234H, 262A-262D, 396A, 396B, 468A-468D and 945A-945C to the Plans.

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,

John D. Baranzelli, P. E.
Acting Engineer of Design and Environment

A handwritten signature in cursive script, reading "Ted B. Walschleger P.E.", with a small "P.E." in block letters at the end.

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

cc: John Fortmann, Region 1, District 1; Dave Lippert, Mike Renner; D.Carl
Puzey; Estimates

MS/ks

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF PRICES
 CONTRACT
 NUMBER - 60I31

State Job # - C-91-014-10

Project Number

Route

County Name - DUPAGE - -

FAP 338

Code - 43 - -

* REVISED: JANUARY 9, 2013

District - 1 - -

Section Number - (112 & 113) WRS-5

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
A2002916	T-CELTIS OCCID 2	EACH	6.000				
A2004816	T-GLED TRI-I SK 2	EACH	12.000				
A2005015	T-GYMNOCLA DIO 8' MSF	EACH	15.000				
A2005020	T-GYMNOCLA DIO 2-1/2	EACH	22.000				
A2005516	T-NYSSA SYLVAT 2	EACH	5.000				
A2006516	T-QUERCUS BICOL 2	EACH	6.000				
A2006716	T-QUERCUS MACR 2	EACH	5.000				
A2006816	T-QUERCUS MEUH 2	EACH	8.000				
A2007816	T-TILIA AMER 2	EACH	6.000				
A2008468	T-ULMUS AMER PRINC 2	EACH	6.000				
B2001616	T-CRAT CRU-I TF 2	EACH	7.000				
B2001666	T-CRATAE CRU-I SF 6'	EACH	15.000				
B2003316	T-MALUS DW TF 2	EACH	10.000				
B2003766	T-MALUS IS CL 6'	EACH	7.000				
B2006116	T-SYRG PEK M TF 2	EACH	11.000				

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B2006125	T-SYRG ZZ BJK TF 2	EACH	13.000				
D2002784	E-PINUS NIGRA 7'	EACH	4.000				
E20210G1	V-PARTHEN QUIN EM 1G	EACH	240.000				
JI420005	PCC PAVEMENT 10 JOINT	SQ YD	7,420.000				
JI420010	PCC PAVEMENT 12 JOINT	SQ YD	5,274.000				
JI440010	CONC MED BAR BASE REM	FOOT	208.000				
JI440022	SHLDR RUM STRIP REM	SQ YD	9,967.000				
JI442005	HMA PRJ D1 PATCH 12	SQ YD	18.000				
*REV JI481040	AGG SHOULDER TYPE B	TON	951.000				
JI481070	AGG SHLDR SPEC TYPE C	TON	382.000				
JI482004	HMA SHOULDERS 6	SQ YD	11,471.000				
JI602000	INLET SLOPE DRAIN	EACH	1.000				
JI602031	CATCH BSN TG-2 (MOD)	EACH	2.000				
JI602115	CATCH BASIN TG2 TG2FG	EACH	13.000				
JI606010	GUTTER TG-2	FOOT	2,938.000				

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J1606015	GUTTER TG-2,MOD	FOOT	191.000				
J1630002	GSPBGR TA 6FT POSTS	FOOT	8,200.000				
J1631110	TRA BAR TERM,T1 SP TA	EACH	5.000				
J1631120	TRAF BAR TERM,T2	EACH	5.000				
J1631125	TRAF BAR TERM,T5	EACH	3.000				
J1631130	TRAF BAR TERM,T6	EACH	3.000				
J1631135	TRAF BAR TERM TT6B	EACH	1.000				
J1631140	TRAF BAR TERM TT10	EACH	1.000				
J1637017	CONC BAR BASE (SPL)	FOOT	107.000				
J1664305	ROW FENCE T1 6	FOOT	400.000				
J1680121	SLOP HDWL TIII 12 1:3	EACH	5.000				
J1680123	SLOP HDWL TIII 18 1:3	EACH	1.000				
J1680125	SLOP HDWL TIII 24 1:3	EACH	2.000				
J1680130	SLOP HDWL TIII 6 1:4	EACH	9.000				
J1680135	SLOP HDWL TIII 24 1:4	EACH	1.000				

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J1680140	SLOP HDWL TIII 6 1:6	EACH	7.000				
*REV J1780245	POLYUREA MARK TI 10	FOOT	16,265.000				
J1782010	GDRL DELIN REF M TY B	EACH	101.000				
J1782020	CONC B DELIN REF M C	EACH	260.000				
J1782110	TERMINAL MARKER DA	EACH	5.000				
JS120100	TRMF MATPORT CHNGMES	EACH	3.000				
*REV JS250220	SEEDING CLASS 2E	ACRE	4.550				
JS250305	SEEDING CLASS 3E	ACRE	10.000				
JS250314	SEEDING CLASS 4B	ACRE	0.500				
JS250318	SEEDING CLASS 4F	ACRE	1.500				
JS701010	MAINTENANCE OF TRAF	L SUM	1.000				
JS733070	OSS SPAN TY AL 70 FT	FOOT	71.000				
JS733080	OSS SPAN TY AL 80 FT	FOOT	81.000				
JS734A10	FDN OSS - SPAN TYPE	CU YD	29.000				
JS804100	ELECT SERV INSTALL	EACH	1.000				

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JS810100	UNDRGRD C PVC GALVS 4	FOOT	591.000				
JS810837	UNDRGRD C PVC 3	FOOT	23.000				
JS810839	UNDRGRD C PVC 4	FOOT	91.000				
JS811060	CON AS 2 GAL PVC CT	FOOT	117.000				
JS812027	CON EMB STR 4 PVC	FOOT	45.000				
JS813001	JNC BOX SS ES 20X12X8	EACH	3.000				
JS813022	JUN BX SS AS 6X6X4	EACH	4.000				
JS813053	JUN BX SS AS 12X10X6	EACH	8.000				
JS814001	HANDHOLE TOLLWAY	EACH	1.000				
JS816072	UD 2#2#4GXLP USE 2 CNC	FOOT	898.000				
JS816076	UD 4#2#4GXLP USE 2 CNC	FOOT	9,517.000				
JS817211	EC C XLP USE 1C 10	FOOT	532.000				
JS817214	EC C XLP USE 1C 4	FOOT	152.000				
JS817215	EC C XLP USE 1C 2	FOOT	608.000				
JS817218	EC C XLP USE 1C 3/0	FOOT	99.000				

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JS821001	LUM SV HOR MNT 400	EACH	3.000				
JS821002	UNDERPS LUM 150 HP SV	EACH	8.000				
JS821009	TEMP LUM SV HMHM 750W	EACH	28.000				
JS825004	LIGHTING CONTR 200A	EACH	1.000				
JS828002	LIGHTING CONTR FDN TB	EACH	1.000				
JS830003	GM LP ALUM 50H 15MA	EACH	3.000				
JS830025	TEMP WD POLE 40 CL 4	EACH	2.000				
JS830045	TEMP WDPLE 90CL2 15MA	EACH	28.000				
JS836001	LPF (RDWY) SH-7'/CONC	EACH	30.000				
JS842080	REM EX LT UNIT SALV	EACH	28.000				
JS842100	REM UNDERPASS LUM	EACH	8.000				
JS842110	POLE FDN REM METAL	EACH	27.000				
JS845011	REMOV LIGHTING CONTR	EACH	1.000				
JS845012	REMOV ELECT SERV INST	EACH	1.000				
JS845013	REMOV LTG CONTR FDN	EACH	1.000				

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JS846001	MAINTAIN LIGHT SYS	L SUM	1.000				
JT211A04	SUBGRADE AGGREGATE 6	CU YD	551.000				
JT211A11	SUBGRADE AGGREGATE 12	CU YD	8,809.000				
JT420000	WHT WASH FOR CON PVMT	SQ YD	12,694.000				
JT637023	CONC MED BAR TRAN TVF	FOOT	107.000				
JT720120	SIGN INSTALL TYPE 3	SQ FT	700.000				
JT726040	REM & REIN MLPST MRKR	EACH	4.000				
JT830036	LIGHTING UNIT (IO)	EACH	28.000				
K0029634	WEED CONTR PRE-EM GRN	POUND	25.000				
XX006938	OPTIM TRAF SIG SYS SP	EACH	1.000				
X0301834	STORM SEWER FILLED	FOOT	309.000				
X0322141	REM TEMP WOOD POLE	EACH	6.000				
X0322936	REMOV EX FLAR END SEC	EACH	4.000				
*ADD X0323583	SPEED INDICATOR SIGN	CAL DA	229.000				
X0323898	CCTV DOME CAMERA	EACH	2.000				

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X0324085	EM VEH P S LSC 20 3C	FOOT	4,357.000				
X0324237	CCTV DOME CAM HM TOW	EACH	2.000				
X0324243	CCTV VIDEO CODEC	EACH	4.000				
*REV X0324455	DRILL/SET SOLD P SOIL	CU FT	22,839.000				
X0324597	CCTV CABINET	EACH	2.000				
X0325034	MH TA 6D W/2 T1FOL RP	EACH	1.000				
X0325040	FO INNERDUCT 1 1/4"	FOOT	400.000				
X0325207	TV INSPECT OF SEWER	FOOT	575.000				
X0326461	CCTV EQPT FBR OPT DST	EACH	4.000				
X0326465	MOD EX VID DSTN SYS	L SUM	1.000				
X0327186	PORT VIDEO TOWER STA	CAL MO	20.000				
X0327486	TEMP WP 60 CL 4 IO	EACH	4.000				
X4023000	TEMP ACCESS- ROAD	EACH	2.000				
X4024100	TEMP ACCESS WINTERIZE	SQ YD	565.000				
X4400500	COMB C&G REMOV SPL	FOOT	54.000				

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*REV X4403800	MEDIAN SURF REMOVAL	SQ FT	27,467.000				
X4420831	CL D PATCH T3 15 SPL	SQ YD	500.000				
X5121800	PERM STEEL SHT PILING	SQ FT	4,354.000				
X5537900	SS CLEANED 15	FOOT	159.000				
X5538400	SS CLEANED 30	FOOT	189.000				
X5610009	PIPE INSULATION SYST	FOOT	507.000				
X5860110	GRANULAR BACKFILL STR	CU YD	1,738.000				
X6020090	MANOLE W/RESTRICT PLT	EACH	1.000				
X6021193	TEMP CATCH BASINS	EACH	15.000				
X6024240	INLETS SPL	EACH	3.000				
X6026500	MAN DT 5 DIA T1F CL	EACH	1.000				
X6061124	CONC MED TSB-6 SPL	SQ FT	2,814.000				
X6064200	COMB CC&G TB6.12 SPL	FOOT	2,821.000				
X6350110	DELINEATORS SPL	EACH	85.000				
X6350120	DELINEATOR REMOVAL	EACH	73.000				

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X6370050	CONC BAR WALL SPL	FOOT	256.000				
X6380205	TEMP MOD GLARE SCREEN	FOOT	8,100.000				
X6640535	CH LK FENCE 6 ATT STR	FOOT	88.000				
*REV X6700410	ENGR FLD OFF A SPL	CAL MO	16.000				
X7010216	TRAF CONT & PROT SPL	L SUM	1.000				
X7013820	TR CONT SURVEIL EXPWY	CAL DA	87.000				
X7030025	WET REF TEM TP T3 L&S	SQ FT	5,032.000				
X7030030	WET REF TEM TAPE T3 4	FOOT	317,950.000				
X7030040	WET REF TEM TAPE T3 6	FOOT	16,845.000				
X7030045	WET REF TEM TAPE T3 8	FOOT	24,062.000				
X7030050	WET REF TEM TPE T3 12	FOOT	628.000				
X7030055	WET REF TEM TPE T3 24	FOOT	996.000				
X8210305	PROT-MAIN UNPASS LTG	L SUM	1.000				
X8251388	LT CT BM 480V200D RS	EACH	1.000				
X8360215	LIGHT POLE FDN 24D OS	FOOT	9.000				

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X8570231	FAC T5 CAB SPL	EACH	1.000				
X8620200	UNINTER POWER SUP SPL	EACH	3.000				
X8630104	CONT CAB TYPE IV SPL	EACH	1.000				
X8710024	FOCC62.5/125 MM12SM24	FOOT	4,412.000				
X8710028	FIB OPT CBL 6F SM	FOOT	401.000				
X8711130	FOCM62.5/125 MM12SM24	FOOT	1,289.000				
*ADD X8950205	REBLD EX HANDHOLE SPL	EACH	1.000				
Z0007118	UNTREATED TIMBER LAG	SQ FT	7,570.000				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.000				
Z0018002	DRAINAGE SCUPPR DS-11	EACH	6.000				
Z0018801	DRAINAGE SYSTEM, N1	EACH	1.000				
Z0018802	DRAINAGE SYSTEM, N2	EACH	1.000				
Z0022800	FENCE REMOVAL	FOOT	500.000				
Z0026402	FUR SOLDIER PILES HP	FOOT	1,106.000				
*REV Z0026404	FUR SOLDIER PILES WS	FOOT	3,278.000				

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Z0030850	TEMP INFO SIGNING	SQ FT	109.000				
Z0033020	LUM SFTY CABLE ASMBLY	EACH	13.000				
Z0033028	MAINTAIN LIGHTING SYS	CAL MO	5.000				
Z0033052	COMMUNICATIONS VAULT	EACH	1.000				
*REV Z0046304	P UNDR FOR STRUCT 4	FOOT	1,570.000				
Z0050000	REM REIN IMPACT ATTEN	EACH	2.000				
*REV Z0062456	TEMP PAVEMENT	SQ YD	30,699.000				
Z0073002	TEMP SOIL RETEN SYSTM	SQ FT	1,845.000				
Z0073345	SLEEPER SLAB	FOOT	806.000				
*REV Z0073510	TEMP TR SIGNAL TIMING	EACH	22.000				
20100110	TREE REMOV 6-15	UNIT	247.000				
20100210	TREE REMOV OVER 15	UNIT	170.000				
20101000	TEMPORARY FENCE	FOOT	2,310.000				
20101300	TREE PRUN 1-10	EACH	10.000				
20101350	TREE PRUN OVER 10	EACH	11.000				

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*REV 20200100	EARTH EXCAVATION	CU YD	62,450.000				
20201200	REM & DISP UNS MATL	CU YD	4,690.000				
*REV 20400800	FURNISHED EXCAVATION	CU YD	88,330.000				
20800150	TRENCH BACKFILL	CU YD	7,403.000				
21001000	GEOTECH FAB F/GR STAB	SQ YD	31,824.000				
*REV 21101505	TOPSOIL EXC & PLAC	CU YD	27,900.000				
21101645	TOPSOIL F & P 12	SQ YD	114.000				
21101695	TOPSOIL F & P 30	SQ YD	8,353.000				
25000210	SEEDING CL 2A	ACRE	0.500				
25000400	NITROGEN FERT NUTR	POUND	781.000				
25000500	PHOSPHORUS FERT NUTR	POUND	153.000				
25000600	POTASSIUM FERT NUTR	POUND	1,696.000				
25100630	EROSION CONTR BLANKET	SQ YD	81,070.000				
25200110	SODDING SALT TOLERANT	SQ YD	22,534.000				
25200200	SUPPLE WATERING	UNIT	1,014.000				

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28000250	TEMP EROS CONTR SEED	POUND	1,154.000				
28000305	TEMP DITCH CHECKS	FOOT	590.000				
28000400	PERIMETER EROS BAR	FOOT	17,882.000				
28000500	INLET & PIPE PROTECT	EACH	7.000				
28000510	INLET FILTERS	EACH	178.000				
28001100	TEMP EROS CONTR BLANK	SQ YD	55,804.000				
28200200	FILTER FABRIC	SQ YD	534.000				
28300400	AGGREGATE DITCH	TON	288.000				
30300001	AGG SUBGRADE IMPROVE	CU YD	6,270.000				
30300112	AGG SUBGRADE IMPR 12	SQ YD	31,893.000				
31101200	SUB GRAN MAT B 4	SQ YD	36,343.000				
31200500	STAB SUBBASE HMA 4	SQ YD	3,792.000				
31200502	STAB SUBBASE HMA 4.5	SQ YD	28,188.000				
40600100	BIT MATLS PR CT	GALLON	629.000				
40600300	AGG PR CT	TON	13.000				

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40600635	LEV BIND MM N70	TON	182.000				
40600895	CONSTRUC TEST STRIP	EACH	2.000				
40600982	HMA SURF REM BUTT JT	SQ YD	41.000				
40603080	HMA BC IL-19.0 N50	TON	121.000				
40603335	HMA SC "D" N50	TON	25.000				
*ADD 40603340	HMA SC "D" N70	TON	438.000				
40603595	P HMA SC "F" N90	TON	483.000				
40701886	HMA PAVT FD 10 1/4	SQ YD	1,975.000				
42000506	PCC PVT 10 1/4 JOINTD	SQ YD	24,008.000				
42001300	PROTECTIVE COAT	SQ YD	53,727.000				
42001420	BR APPR PVT CON (PCC)	SQ YD	1,374.000				
42100340	CONT REINF PCC PVT 12	SQ YD	3,308.000				
42100615	PAVT REINFORCEMENT	SQ YD	3,308.000				
*REV 42400200	PC CONC SIDEWALK 5	SQ FT	45,550.000				
*REV 42400800	DETECTABLE WARNINGS	SQ FT	491.000				

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*REV 44000100	PAVEMENT REM	SQ YD	61,293.000				
*REV 44000157	HMA SURF REM 2	SQ YD	3,906.000				
*ADD 44000160	HMA SURF REM 2 3/4	SQ YD	4,312.000				
44000200	DRIVE PAVEMENT REM	SQ YD	360.000				
*REV 44000500	COMB CURB GUTTER REM	FOOT	12,974.000				
*REV 44000600	SIDEWALK REM	SQ FT	6,826.000				
44003100	MEDIAN REMOVAL	SQ FT	4,173.000				
44004250	PAVED SHLD REMOVAL	SQ YD	11,824.000				
44201819	CL D PATCH T3 14	SQ YD	69.000				
44300200	STRIP REF CR CON TR	FOOT	7,889.000				
48101620	AGGREGATE SHLDS B 10	SQ YD	409.000				
48300100	PCC SHOULDERS 6	SQ YD	375.000				
50100100	REM EXIST STRUCT	EACH	1.000				
*REV 50104400	CONC HDWL REM	EACH	8.000				
50157300	PROTECTIVE SHIELD	SQ YD	3,970.000				

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*REV 50200100	STRUCTURE EXCAVATION	CU YD	2,316.000				
50300225	CONC STRUCT	CU YD	1,059.500				
50300255	CONC SUP-STR	CU YD	1,709.000				
50300260	BR DECK GROOVING	SQ YD	3,062.000				
50300280	CONCRETE ENCASEMENT	CU YD	28.000				
50300285	FORM LINER TEX SURF	SQ FT	4,629.000				
50300300	PROTECTIVE COAT	SQ YD	4,433.000				
50400745	F&E PPC BULB T-BM 72	FOOT	4,256.000				
50500505	STUD SHEAR CONNECTORS	EACH	2,099.000				
50800205	REINF BARS, EPOXY CTD	POUND	515,640.000				
50800515	BAR SPLICERS	EACH	236.000				
50901730	BRIDGE FENCE RAILING	FOOT	251.000				
50901735	BR FEN RAIL (SDWALK)	FOOT	251.000				
50901750	PARAPET RAILING	FOOT	538.000				
51100100	SLOPE WALL 4	SQ YD	1,747.000				

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51201800	FUR STL PILE HP14X73	FOOT	5,648.000				
51202305	DRIVING PILES	FOOT	5,514.000				
51203800	TEST PILE ST HP14X73	EACH	6.000				
51500100	NAME PLATES	EACH	2.000				
54002050	EXPAN BOLTS 3/4 X 9	EACH	24.000				
542D0211	P CUL CL D 1 6	FOOT	7.000				
5421C012	P CUL CL C 1 12 TEMP	FOOT	1,026.000				
5421C024	P CUL CL C 1 24 TEMP	FOOT	407.000				
54213657	PRC FLAR END SEC 12	EACH	1.000				
54213675	PRC FLAR END SEC 30	EACH	1.000				
54215436	CIP RC END SEC 36	EACH	1.000				
54215442	CIP RC END SEC 42	EACH	1.000				
54215466	CIP RC END SEC 66	EACH	1.000				
54248510	CONCRETE COLLAR	CU YD	2.400				
550A0050	STORM SEW CL A 1 12	FOOT	735.000				

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550A0090	STORM SEW CL A 1 18	FOOT	96.000				
550A0120	STORM SEW CL A 1 24	FOOT	280.000				
550A0140	STORM SEW CL A 1 30	FOOT	2.000				
550A0190	STORM SEW CL A 1 48	FOOT	144.000				
550A0340	STORM SEW CL A 2 12	FOOT	4,030.000				
550A0360	STORM SEW CL A 2 15	FOOT	597.000				
550A0380	STORM SEW CL A 2 18	FOOT	368.000				
550A0410	STORM SEW CL A 2 24	FOOT	357.000				
550A0450	STORM SEW CL A 2 36	FOOT	434.000				
550A0470	STORM SEW CL A 2 42	FOOT	5.000				
550A0480	STORM SEW CL A 2 48	FOOT	257.000				
550A0500	STORM SEW CL A 2 60	FOOT	174.000				
550A0510	STORM SEW CL A 2 66	FOOT	24.000				
550A0640	STORM SEW CL A 3 12	FOOT	5.000				
550A0660	STORM SEW CL A 3 15	FOOT	235.000				

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550A0680	STORM SEW CL A 3 18	FOOT	155.000				
550A0750	STORM SEW CL A 3 36	FOOT	230.000				
550A0770	STORM SEW CL A 3 42	FOOT	97.000				
550A0800	STORM SEW CL A 3 60	FOOT	460.000				
550A0980	STORM SEW CL A 4 18	FOOT	11.000				
550A1030	STORM SEW CL A 4 30	FOOT	51.000				
550A1050	STORM SEW CL A 4 36	FOOT	102.000				
550A1280	STORM SEW CL A 5 24	FOOT	6.000				
550A2360	SS RG CL A 1 24	FOOT	107.000				
550A2520	SS RG CL A 2 12	FOOT	10.000				
55100500	STORM SEWER REM 12	FOOT	1,965.000				
55100700	STORM SEWER REM 15	FOOT	174.000				
55100900	STORM SEWER REM 18	FOOT	212.000				
55101400	STORM SEWER REM 30	FOOT	291.000				
*REV 58700300	CONCRETE SEALER	SQ FT	5,911.000				

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59100100	GEOCOMPOSITE WALL DR	SQ YD	1,005.000				
60109510	P UNDR FAB LINE TR 4	FOOT	6,051.000				
60109520	P UNDR FAB LINE TR 6	FOOT	8,706.000				
60200805	CB TA 4 DIA T8G	EACH	18.000				
60201110	CB TA 4 DIA T11V F&G	EACH	1.000				
60201340	CB TA 4 DIA T24F&G	EACH	39.000				
60207605	CB TC T8G	EACH	2.000				
60218400	MAN TA 4 DIA T1F CL	EACH	14.000				
60221100	MAN TA 5 DIA T1F CL	EACH	9.000				
60223800	MAN TA 6 DIA T1F CL	EACH	9.000				
60224469	MAN TA 9 DIA T1F CL	EACH	6.000				
60236200	INLETS TA T8G	EACH	3.000				
60237470	INLETS TA T24F&G	EACH	28.000				
60240301	INLETS TB T8G	EACH	1.000				
60240328	INLETS TB T24F&G	EACH	6.000				

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60255500	MAN ADJUST	EACH	5.000				
60257900	MAN RECONST	EACH	1.000				
60260100	INLETS ADJUST	EACH	5.000				
60500040	REMOV MANHOLES	EACH	8.000				
60500050	REMOV CATCH BAS	EACH	18.000				
60500060	REMOV INLETS	EACH	32.000				
60500080	REMOV CB - MAIN FLOW	EACH	1.000				
60500090	REM INLET- MAIN FLOW	EACH	2.000				
60602800	CONC GUTTER TB	FOOT	1,132.000				
60603800	COMB CC&G TB6.12	FOOT	384.000				
60605000	COMB CC&G TB6.24	FOOT	7,756.000				
60607400	COMB CC&G TB9.24	FOOT	2,819.000				
60607900	COMB CC&G TB9.24 VWGF	FOOT	476.000				
*ADD 60608600	COMB CC&G TM6.06	FOOT	58.000				
*REV 60609100	COMB CC&G TM6.06 VWGF	FOOT	211.000				

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60609200	COMB CC&G TM6.12	FOOT	261.000				
*ADD 60610400	COMB CC&G TM6.24	FOOT	46.000				
*REV 60618300	CONC MEDIAN SURF 4	SQ FT	1,670.000				
60620000	CONC MED TSB6.24	SQ FT	6,109.000				
60621200	CONC MED TSB9.24	SQ FT	332.000				
61100605	MISC CONCRETE	CU YD	1.800				
63100085	TRAF BAR TERM T6	EACH	1.000				
63100167	TR BAR TRM T1 SPL TAN	EACH	1.000				
63200310	GUARDRAIL REMOV	FOOT	8,874.000				
*REV 64200116	SHOULDER RUM STRIP 16	FOOT	31,138.000				
64300240	IMP ATTEN FRD NAR TL2	EACH	1.000				
64300350	IMP ATTEN FRD WID TL2	EACH	2.000				
66400205	CH LK FENCE 5	FOOT	1,207.000				
66900200	NON SPL WASTE DISPOSL	CU YD	900.000				
66900450	SPL WASTE PLNS/REPORT	L SUM	1.000				

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66900530	SOIL DISPOSAL ANALY	EACH	1.000				
67100100	MOBILIZATION	L SUM	1.000				
70103815	TR CONT SURVEILLANCE	CAL DA	609.000				
70106800	CHANGEABLE MESSAGE SN	CAL MO	167.000				
70300210	TEMP PVT MK LTR & SYM	SQ FT	437.000				
70300220	TEMP PVT MK LINE 4	FOOT	33,366.000				
70300240	TEMP PVT MK LINE 6	FOOT	2,538.000				
70300250	TEMP PVT MK LINE 8	FOOT	1,034.000				
70300260	TEMP PVT MK LINE 12	FOOT	829.000				
70300280	TEMP PVT MK LINE 24	FOOT	598.000				
70301000	WORK ZONE PAVT MK REM	SQ FT	138,099.000				
70400100	TEMP CONC BARRIER	FOOT	10,126.000				
70400200	REL TEMP CONC BARRIER	FOOT	14,438.000				
70500665	TEMP TR BAR TERM T6	EACH	1.000				
70600240	IMP ATTN TEMP NRD TL2	EACH	1.000				

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70600255	IMP ATTN TEMP FRN TL2	EACH	5.000				
70600260	IMP ATTN TEMP FRN TL3	EACH	6.000				
70600322	IMP ATTN REL FRN TL2	EACH	13.000				
70600332	IMP ATTN REL FRN TL3	EACH	8.000				
70600340	IMP ATTN REL NRD TL2	EACH	1.000				
*REV 72000100	SIGN PANEL T1	SQ FT	749.000				
72000200	SIGN PANEL T2	SQ FT	314.000				
72000300	SIGN PANEL T3	SQ FT	2,020.000				
72400100	REMOV SIN PAN ASSY TA	EACH	9.000				
72400200	REMOV SIN PAN ASSY TB	EACH	10.000				
72400310	REMOV SIGN PANEL T1	SQ FT	162.000				
72400320	REMOV SIGN PANEL T2	SQ FT	70.000				
72400330	REMOV SIGN PANEL T3	SQ FT	48.000				
72400600	RELOC SIN PAN ASSY TB	EACH	2.000				
*REV 72400730	RELOC SIGN PANEL T3	SQ FT	252.000				

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72700100	STR STL SIN SUP BA	POUND	2,769.000				
72800100	TELES STL SIN SUPPORT	FOOT	992.000				
73000100	WOOD SIN SUPPORT	FOOT	196.000				
73300200	OVHD SIN STR-SPAN T2A	FOOT	295.000				
*REV 73400100	CONC FOUNDATION	CU YD	7.900				
73400200	DRILL SHAFT CONC FDN	CU YD	30.600				
*ADD 73502000	REL GR MT SIN SUPPORT	EACH	4.000				
73700100	REM GR MT SIN SUPPORT	EACH	8.000				
*REV 78000100	THPL PVT MK LTR & SYM	SQ FT	437.000				
*REV 78000200	THPL PVT MK LINE 4	FOOT	2,346.000				
*ADD 78000300	THPL PVT MK LINE 5	FOOT	4,010.000				
78000400	THPL PVT MK LINE 6	FOOT	1,763.000				
78000500	THPL PVT MK LINE 8	FOOT	118.000				
78000600	THPL PVT MK LINE 12	FOOT	504.000				
78000650	THPL PVT MK LINE 24	FOOT	140.000				

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78007100	PERM PVT MK LTR-SYM	SQ FT	1,112.000				
78007110	PERM PVT MK - LINE 4	FOOT	61,600.000				
78007120	PERM PVT MK - LINE 5	FOOT	4,216.000				
78007130	PERM PVT MK - LINE 6	FOOT	24,589.000				
78007140	PERM PVT MK - LINE 8	FOOT	2,381.000				
78007150	PERM PVT MK - LINE 12	FOOT	384.000				
78007180	PERM PVT MK - LINE 24	FOOT	290.000				
*REV 78008200	POLYUREA PM T1 LTR-SY	SQ FT	2,349.000				
*REV 78008210	POLYUREA PM T1 LN 4	FOOT	49,923.000				
*REV 78008230	POLYUREA PM T1 LN 6	FOOT	33,437.000				
*REV 78008240	POLYUREA PM T1 LN 8	FOOT	4,614.000				
*REV 78008250	POLYUREA PM T1 LN 12	FOOT	5,891.000				
*REV 78008270	POLYUREA PM T1 LN 24	FOOT	431.000				
78100100	RAISED REFL PAVT MKR	EACH	334.000				
78100105	RAISED REF PVT MKR BR	EACH	34.000				

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78100200	TEMP RAIS REF PVT MKR	EACH	176.000				
78200300	PRISMATIC CURB REFL	EACH	190.000				
78200410	GUARDRAIL MKR TYPE A	EACH	4.000				
78200530	BAR WALL MKR TYPE C	EACH	85.000				
78201000	TERMINAL MARKER - DA	EACH	1.000				
*REV 78300100	PAVT MARKING REMOVAL	SQ FT	49,658.000				
78300200	RAISED REF PVT MK REM	EACH	235.000				
80400100	ELECT SERV INSTALL	EACH	1.000				
80400200	ELECT UTIL SERV CONN	L SUM	1.000		58,500.000		58,500.000
80500010	SERV INSTALL GRND MT	EACH	2.000				
81028200	UNDRGRD C GALVS 2	FOOT	4,846.000				
81028210	UNDRGRD C GALVS 2 1/2	FOOT	1,087.000				
81028220	UNDRGRD C GALVS 3	FOOT	437.000				
81028240	UNDRGRD C GALVS 4	FOOT	6,033.000				
81100220	CON AT ST 3/4 PVC GS	FOOT	102.000				

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81100605	CON AT ST 2 PVC GALVS	FOOT	618.000				
81101000	CON AT ST 4 GALVS	FOOT	1,174.000				
81300550	JUN BX SS AS 12X12X6	EACH	8.000				
81300830	JUN BX SS AS 18X18X8	EACH	8.000				
81400100	HANDHOLE	EACH	16.000				
81400200	HD HANDHOLE	EACH	5.000				
81400300	DBL HANDHOLE	EACH	14.000				
81603030	UD 2#4 #6G XLP USE 1	FOOT	508.000				
81603090	UD 3#4#6G XLP USE 1 1/4	FOOT	3,241.000				
81603136	UD 5#4#6G XLP USE 1.5 P	FOOT	1,385.000				
81702130	EC C XLP USE 1C 6	FOOT	640.000				
81702140	EC C XLP USE 1C 4	FOOT	2,560.000				
*DELETE 81702180	EC C XLP USE 1C 3/0	FOOT	420.000				
81800400	A CBL 4-1C2 MESS WIRE	FOOT	10,774.000				
82102400	LUM SV HOR MT 400W	EACH	13.000				

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82105700	LUM SV HM HOR MT 750W	EACH	24.000				
83050800	LT P A 47.5MH 12MA	EACH	13.000				
83501400	LT TOWER 90MH LM 6	EACH	4.000				
83600200	LIGHT POLE FDN 24D	FOOT	108.000				
83700300	LT TOWER FDN 48D	FOOT	64.000				
83800205	BKWY DEV TR B 15BC	EACH	13.000				
85000200	MAIN EX TR SIG INSTAL	EACH	1.000				
86400100	TRANSCEIVER - FIB OPT	EACH	2.000				
87101100	FO CAB M 62.5/125 4F	FOOT	1,181.000				
87300925	ELCBL C TRACER 14 1C	FOOT	4,682.000				
87301215	ELCBL C SIGNAL 14 2C	FOOT	11,276.000				
87301225	ELCBL C SIGNAL 14 3C	FOOT	15,745.000				
87301245	ELCBL C SIGNAL 14 5C	FOOT	35,451.000				
87301255	ELCBL C SIGNAL 14 7C	FOOT	623.000				
87301305	ELCBL C LEAD 14 1PR	FOOT	16,732.000				

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87301800	ELCBL C SERV 4 2C	FOOT	340.000				
87301805	ELCBL C SERV 6 2C	FOOT	221.000				
87301900	ELCBL C EGRDC 6 1C	FOOT	4,026.000				
87502480	TS POST GALVS 14	EACH	13.000				
87502500	TS POST GALVS 16	EACH	1.000				
87502520	TS POST GALVS 18	EACH	5.000				
87700140	S MAA & P 20	EACH	1.000				
87700170	S MAA & P 26	EACH	1.000				
87700190	S MAA & P 30	EACH	1.000				
87700200	S MAA & P 32	EACH	1.000				
87700220	S MAA & P 36	EACH	1.000				
87700230	S MAA & P 38	EACH	1.000				
87700240	S MAA & P 40	EACH	3.000				
87700280	S MAA & P 48	EACH	1.000				
87800100	CONC FDN TY A	FOOT	84.000				

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87800150	CONC FDN TY C	FOOT	8.000				
87800400	CONC FDN TY E 30D	FOOT	20.000				
87800415	CONC FDN TY E 36D	FOOT	96.000				
87900200	DRILL EX HANDHOLE	EACH	1.000				
88030020	SH LED 1F 3S MAM	EACH	22.000				
88030050	SH LED 1F 3S BM	EACH	18.000				
88030100	SH LED 1F 5S BM	EACH	2.000				
88030210	SH LED 2F 3S BM	EACH	2.000				
88055160	OPSH LED 1F 3S MAM	EACH	2.000				
88102717	PED SH LED 1F BM CDT	EACH	14.000				
88102747	PED SH LED 2F BM CDT	EACH	1.000				
88200210	TS BACKPLATE LOU ALUM	EACH	24.000				
88500100	INDUCTIVE LOOP DETECT	EACH	34.000				
88600100	DET LOOP T1	FOOT	453.000				
88600700	PREFORM DETECT LOOP	FOOT	1,002.000				

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88700200	LIGHT DETECTOR	EACH	6.000				
88700300	LIGHT DETECTOR AMP	EACH	1.000				
88800100	PED PUSH-BUTTON	EACH	16.000				
*REV 89000100	TEMP TR SIG INSTALL	EACH	3.000				
89502300	REM ELCBL FR CON	FOOT	918.000				
89502375	REMOV EX TS EQUIP	EACH	2.000				
89502380	REMOV EX HANDHOLE	EACH	39.000				
89502382	REMOV EX DBL HANDHOLE	EACH	3.000				
89502385	REMOV EX CONC FDN	EACH	17.000				

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MAINTENANCE OF ROADWAYS

Effective: September 30, 1985
 Revised: November 1, 1996

Beginning on the date that work begins on this project, the Contractor shall assume responsibility for normal maintenance of all existing roadways within the limits of the improvement. This normal maintenance shall include all repair work deemed necessary by the Engineer, but shall not include snow removal operations. Traffic control and protection for maintenance of roadways will be provided by the Contractor as required by the Engineer.

If items of work have not been provided in the contract, or otherwise specified for payment, such items, including the accompanying traffic control and protection required by the Engineer, will be paid for in accordance with Article 109.04 of the Standard Specifications.

STATUS OF UTILITIES TO BE ADJUSTED

Effective: January 30, 1987
 Revised: July 1, 1994

Utility companies involved in this project have provided the following estimated dates:

Name Of Utility	Type	Location	<u>Estimated Duration of relocation times</u>
AboveNet/ Zayo	Fiber Optic	STA 4045+00, 43 RT to 4055+56, 108 RT STA 4057+00, 132 RT to 4066+75, 78 RT	60-90 working days
AT&T	Fiber Optic	STA 4045+00, 53 LT to 4051+50, 122 LT STA 4063+80, 140 LT to 4067+5, 82 LT STA 4059+13, 97 LT to 4059+47 120 RT	90 working days
G4S	Fiber Optic	STA 4051+53 to 4064+12	30 working days
Commonwealth Edison	Electric	STA 4048+90, 76 RT to 4077+75, 62 RT STA 4071+53, 54 LT to 4071+53 75, RT	40 working days
KDL/ Windstream	Fiber Optic	STA 4051+09, 94 RT to STA 4059+47 121 RT	Work to be included with Above Net/ Zayo
NICOR	Gas	STA 4045+00, 57 RT to 4069+00, 72 RT STA 4063+70, 190 RT to 4064+05, 106 RT STA 4059+74, 80 LT to 4059+97, 108 RT (See Notes 1 and 2) STA 4060+11, 66 LT to 4063+63, 114 RT STA 4060+28, 64 LT to 4060+55, 114 RT	60 working days
Verizon/MCI	Fiber Optic	STA 4045+00, 49 RT to 4055+43, 118 RT STA 4056+85, 117 RT to 4072+19, 34 RT	40-50 working days

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The above represents the best information available to the Department and is included for the convenience of the bidder. The applicable portions of Articles 105.07 and 107.31 of the Standard Specifications shall apply.

Note 1 – The Contractor shall contact Nicor’s Asset Protection Supervisor at 815-272-2587 or 630-385-3147 not less than 72 hours in advance of the estimated start of the construction in the vicinity of the existing and/or future 36” transmission pipeline to discuss protection procedures and to arrange for on-site inspection services. At that time, the contractor shall be prepared to discuss his proposed construction methods and his proposed staging of the work, including but limited to storage of materials, marshalling of equipment and construction time line.

Note 2 – The Department will contact Nicor and request Nicor to expose the existing and/or future 36” transmission pipeline within the limits of the Contractor’s proposed work area. In accordance with 605 ILCS 5/9-113 of the Illinois Compiled Statutes, utility companies have 90 days to complete the relocate their facilities after receipt of written notice from the Department. The 90-day written notice will be sent to the utility companies after the following occurs:

- 1.) Proposed right of way is clear for award.
- 2.) Final plans have been sent to the utility companies.
- 3.) Utility permit is received by the Department and the Department is ready to issue said permit.
- 4.) If the permit has not been submitted, a 15 day letter is sent to the utility company notifying them they have 15 days to provide their permit application. After allowing 15 days for submission of the permit the 90 day notice is sent to the utility company. Any time within the 90 day relocation period the utility company may request a waiver for additional time to complete their relocation.

Utility Company Contacts:

Com Ed – Contact: David Schacht- Tel: 630 437 2129
AT & T - Contact: Hector Garcia – Tel: 630 573 5465
Nicor Gas – Contact: Constance Lane – Tel: 630 388-3830
Windstream - Contact: Jim Kostuch-Tel: 262 792 7938
City of Naperville Electric - Contact: Larry Slate -Tel: 630 420 6192
Above Net/ Zayo – Contact: Tim Payment – Tel: 630 203 8003
G4S – Contact: Lou Urildil – Tel: 815 378 4755, Chance Eiker – Tel: 815 378 1851
MCI – Contact: Marino Fernandez – Tel: 312-612-5216

EXISTING UTILITIES

The Contractor shall familiarize himself with the locations of all utilities and structures that may be found in the vicinity of the construction. The Contractor shall conduct his operations to avoid damage to the above-mentioned utilities and structures. Should any damage occur due to the Contractor’s negligence, repairs shall be made by the Contractor at his expense in a manner acceptable to the Engineer.

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Delete the fifth paragraph of Article 107.09 of the Standard Specifications:

“On weekends, excluding holidays, roadways with Average Daily Traffic of 25,000 or greater, all lanes shall be open to traffic from 3:00 P.M. Friday to midnight Sunday except where structure construction or major rehabilitation makes it impractical.”

TRAFFIC CONTROL PLAN

Traffic Control shall be according to the applicable sections of the Standard Specifications, the Supplemental Specifications, the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways", any special details and Highway Standards contained in the plans, and the Special Provisions contained herein.

Special attention is called to Article 107.09 of the Standard Specifications and the following Highway Standards, Details, Quality Standard for Work Zone Traffic Control Devices, Recurring Special Provisions and Special Provisions contained herein, relating to traffic control.

The Contractor shall contact the District One Bureau of Traffic at least 72 hours in advance of beginning work.

STANDARDS:

701101	Off-Road Operations, Multilane, 15' to 24" from Pavement Edge
701106	Off-Road Operations, Multilane, more than 15' from Pavement Edge
701426	Lane Closure, Multilane, Intermittent or Moving Operations for Speeds \geq 45 MPH
701427	Lane Closure, Multilane, Intermittent or Moving Operations for Speeds \leq 40 MPH
701456	Partial Exit Ramp Closure Freeway / Expressway
701601	Urban Lane Closure, Multilane, 1W or 2W with Nontraversable Median
701606	Urban Lane Closure, Multilane, 2W with Mountable Median
701701	Urban Lane Closure, Multilane Intersection
701901	Traffic Control Devices
704001	Temporary Concrete Barrier

DETAILS:

TC10	Traffic Control & Protection for Side Roads, Intersections & Driveways
TC11	Typical Applications Raised Reflective Pavement Markers (Snow-Plow Resistant)
TC13	District One Typical Pavement Markings
TC14	Traffic Control and Protection at Turn Bays (To Remain Open to Traffic)
TC16	Pavement Marking Letters and Symbols for Traffic Staging
TC18	Signing for Flagging Operations at Work Zone Openings
TC21	Detour Signing for Closing State Highways
TC22	Arterial Road Information Sign
TC26	Driveway Entrance Signing

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SPECIAL PROVISIONS:

- Maintenance of Roadways
- Restriction on Working Days After A Completion Date
- Public Convenience and Safety (District 1)
- Failure to Open Interchange Ramps "B" And "D" To Traffic
- Tollway Permit and Bond
- Traffic Control Plan
- Traffic Control and Protection (Arterials)
- Traffic Control Surveillance (Expressways)
- Temporary Information Signing
- Removal of Existing Structures
- Partial-Depth Deck Slab Repair
- Temporary Raised Reflective Pavement Marker
- Permanent Pavement Marking
- Combination Concrete Curb and Gutter, Type B-6.12 (Special)
- Portable Video Tower Stations
- Temporary Optimize Traffic Signal System
- Temporary Traffic Signal Timing (Detour)
- Keeping the Tollway Open to Traffic
- Maintenance of Traffic (Tollway)
- Trailer Mounted Full Matrix Portable Changeable Message Sign
- Aggregate Surface Course For Temporary Access
- Temporary Pavement
- Winterized Temporary Access
- Type III Temporary Tape For Wet Conditions

BDE SPECIAL PROVISIONS:

- Pavement Patching
- Pavement Marking Removal
- Traffic Control Deficiency Deduction

TOLLWAY STANDARDS:

- E1-02 Construction Signs
- E2-02 Lane Closure Details
- E3-02 Shoulder Closure Details
- E4-02 Maintenance of Traffic Reverse Curve
- E5-02 Temporary Gore Details

TRAFFIC CONTROL AND PROTECTION (ARTERIALS)

Effective: February 1, 1996

Revised: March 1, 2011

Specific traffic control plan details and Special Provisions have been prepared for this contract. This work shall include all labor, materials, transportation, handling and incidental work necessary to furnish, install, maintain and remove all traffic control devices required as indicated in the plans and as approved by the Engineer.

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When markers placed on existing pavements to remain or the proposed pavements are no longer needed, the Contractor shall remove the markers by a method approved by the Engineer. The cost of removing the markers shall be included in the contract unit price for TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER.”

Basis of Payment. This work will be paid for at the contract unit price per each for TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER

PERMANENT PAVEMENT MARKING

Description: This work shall consist of the removal of temporary pavement markings, the placement of pavement markings of a permanent material (not tape or paint) during all winter staging months (November 1 through April 1) and the removal of the permanent pavement markings following winter staging months as required for subsequent stages.

General Requirements: This work shall be in accordance with the applicable portions of Section 780 of the Standard Specifications and Supplemental Special Provisions.

The pavement marking material shall be either epoxy or polyurea on all PCC pavements. The pavement marking material shall be either epoxy, thermoplastic or preformed thermoplastic on HMA pavements.

Removal of the temporary pavement marking tape shall be in accordance with applicable portions of Section 703 of the Standard Specifications.

Removal of pavement marking other than temporary pavement marking tape shall be in accordance with applicable portions of Section 783 of the Standard Specifications and BDE Special Provisions.

Method of Measurement: Pavement marking lines will be measured for payment in place in feet. Double yellow lines will be measured as two separate lines. Ten inch (10”) lines will be measured as two, five inch (5”) lines. Letters and symbols will be measured based on the total areas indicated in Table 1 of Article 780.13 of the Standard Specifications or as specified in the plans. The removal of temporary pavement marking tape and permanent pavement markings required for winter staging months will not be measured for payment.

Basis of Payment: This work will be paid at the contract unit price per foot of applied line for PERMANENT PAVEMENT MARKING – LINE of the type specified and per square foot for PERMANENT PAVEMENT MARKING – LETTERS AND SYMBOLS. The removal of temporary pavement marking tape and permanent pavement markings required for winter staging months will not be paid for separately; but shall be included in the contract unit price for PERMANENT PAVEMENT MARKING – LINE of the type specified and PERMANENT PAVEMENT MARKING – LETTERS AND SYMBOLS.

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STORM SEWER TO BE FILLED

Description. The work shall consist of filling abandoned storm sewer pipes at the locations shown on the plans and as directed by the Engineer. All storm sewer pipes to be abandoned in place shall be completely filled with Controlled Low Strength Material (CLSM), per section 1019 of the Standard Specifications. The ends of the storm sewer pipe shall be sealed with cement bricks and mortar, a poured concrete plug, or other means approved by the Engineer.

Basis of Payment. This work will be measured and paid for at the contract unit price per foot for **STORM SEWER TO BE FILLED**. This price shall include all costs for providing and injecting CLSM, capping and all other labor, equipment, and materials necessary to abandon and fill the pipe in accordance with the Specifications.

STORM SEWERS TO BE CLEANED

Description. This work consists of cleaning existing storm sewers at the locations shown on the plans.

Construction Requirements. The Contractor shall clean the existing storm sewers of all silt, debris and/or foreign matter of any kind, and shall be free from such accumulations at the time of final inspection. The method of cleaning shall not damage the existing storm sewers and shall be submitted to the Engineer for approval. Any damage to the existing storm sewers shall be repaired by the Contractor at no additional cost to the Department.

The Contractor shall dispose of the silt, debris and/or foreign matter removed from the existing storm sewers offsite in accordance with Article 202.03 of the Standard Specifications.

Basis of Measurement and Payment. This work will be measured and paid for at the contract unit price per foot for **STORM SEWERS TO BE CLEANED**, of the diameter specified.

The disposal of the silt, debris and/or foreign matter removed from the existing storm sewers shall be included in the contract unit price for **STORM SEWERS TO BE CLEANED** and shall not be paid for separately.

TELEVISION INSPECTION OF SEWER

This item consists of providing all labor, equipment, and material necessary to televise an existing field tile at the locations shown on the plans and other locations as directed by the Engineer. The Contract shall provide two (2) copies each of a digital video and audio on DVD and a written video inspection report to the Engineer.

If any deficiencies are found the Contract shall either repair or replace the existing field tile as directed by the Engineer. The cost of the repairs or replacement for the existing field tile shall be paid in accordance with Article 109.04 of the Standard Specifications. After the Contractor has completed the any repairs or replacement of the existing field tile, the Contractor shall televise the field tile as directed by the Engineer. The Contract shall provide two (2) copies each of a digital video and audio on DVD and a written video inspection report of the re-inspection of the field tile to the Engineer. The cost of televising the field tile after any repairs or replacement will not be paid for separately and shall be included in the contract unit price for **TELEVISION INSPECTION OF SEWER**.

Revised 1/9/13

TEMPORARY TRAFFIC SIGNAL TIMING

Effective: November 28, 2012

This work shall consist of developing and maintaining appropriate traffic signal timings for the specified intersection for the duration of the temporary signalized condition, as well as impacts to existing traffic signal timings caused by construction, detours or other temporary conditions.

This work shall be in accordance with all applicable portions of the IDOT District 1 Traffic Signal Specifications, as contained in this contract, for Temporary Traffic Signal Timings except as modified herein.

This item shall include the following intersections, which are also on the detour route:

1. I-88 Eastbound Ramps @ Diehl Road
2. I-88 Westbound Ramps @ Bilter Road
3. Diehl Road @ Eola Road
4. Eola Road @ Bilter Road / Ferry Road
5. ILL. Rte. 56 @ Eola Road
6. Winfield Road @ Diehl Road
7. I-88 Eastbound Ramps @ Winfield Road
8. I-88 Westbound Ramps @ Winfield Road
9. Winfield Road @ Ferry Road
10. Winfield Road @ Torch Parkway
11. Winfield Road @ Warrenville Road
12. ILL. Rte. 56 @ Winfield Road
13. ILL. Rte. 56 @ Batavia Road
14. ILL. Rte. 56 @ ILL. Rte. 59
15. ILL. Rte. 59 @ Ferry Road

This item shall include the following intersections which have multiply temporary traffic signal setups, for the various construction stages, for the intersections listed:

1. I-88 Eastbound Ramps @ ILL. Rte. 59
2. I-88 Westbound Ramps @ ILL. Rte. 59

Revised 1/9/13

This item shall include the following intersections on adjacent routes:

1. Ferry Road @ Raymond Drive
2. Diehl Road @ Raymond Drive

This work shall include making all timings and adjustments to the above intersections necessary from the first day of construction until the completion of construction on this contract. This will include the period when the detour route is in place during the closure of the ILL. Rte. 59 @ I-88 Ramps.

The consultant shall make all timings and adjustments necessary to the intersections listed below from the first day of construction under contract 60I31, until the start of construction on contract 60R30 and/or contract 60R31 or as directed by the Area Traffic Signal Operations Engineer. Once construction starts on each of the contracts, 60R30 and 60R31 independently, the requirements for these intersections will be transferred to the appropriate contract. This item shall include the following intersections, which are in adjacent contracts on ILL. Rte. 59, which have not started construction at the time of letting for this contract:

1. ILL. Rte. 59 @ North Aurora Road (Contract 60R30)
2. ILL. Rte. 59 @ Brookdale Road / Bruce Lane (Contract 60R31)
3. ILL. Rte. 59 @ Diehl Road (Contract 60R31)

The consultant shall make timing adjustments and prepare comment responses as directed by the Area Traffic Signal Operations Engineer.

Basis of Payment.

This work shall be paid for at the contract unit price each for TEMPORARY TRAFFIC SIGNAL TIMING, which price shall be payment in full for performing all work described herein per intersection. When the temporary traffic signal installation is turned on, 50 percent of the bid price will be paid. All other listed intersections will be paid 50 percent of the bid price after 2 weeks from the start of construction on this contract. The remaining 50 percent of the bid price will be paid following the removal of the temporary traffic signal installation and/or after returning the traffic signal timing to its existing condition at all other intersections listed at the completion of construction on this contract.

Revised 1/9/13

FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL

Description: This work shall consist of furnishing, testing and installing a new traffic actuated solid state digital controller in a new Super R, Type V controller cabinet with peripheral equipment. The controllers and cabinet shall be NEMA TS2 Type 1 design.

Work shall be in accordance with Section 857 of the Standard Specifications except as further modified herein these special provisions.

Add the following to Article 857.02 of the Standard Specifications:

Controllers shall be NTCIP compliant NEMA TS2 Type 1, Econolite ASC/3S-1000 unless specified otherwise on the plans or elsewhere on these specifications. Only controllers supplied by one of the District One approved closed loop equipment manufacturers will be allowed. The controller shall be the most recent model and software version supplied by the manufacturer at the time of the approval and include the standard data key. The traffic signal controller shall provide features to inhibit simultaneous display of a circular yellow ball and a yellow arrow display. Individual load switches shall be provided for each vehicle, pedestrian, and right turn over lap phase. The controller shall prevent phases from being skipped during program changes and after all preemption events.

Materials shall be according to Article 1074.03 as modified in CONTROLLER CABINET AND PERIPHERAL EQUIPMENT in Division 1000 of these specifications and as herein modified.

The Contractor shall furnish and install a Signal Indication LED Display Board, and it shall be in accordance with the following requirements:

Revised 1/9/13

The Contractor will not be allowed to close any ramps for Maintenance of Traffic Stage 3C until the signal cabinet and controller tests are satisfactory to the Engineer / IDOT personnel at the vendor's facility. After the ramps are closed, the Contractor shall have all the proposed traffic signal equipment installed, operational and available for testing in the field, by IDOT District One Bureau of Traffic personnel by 5 am on the Thursday prior to the reopening date of Ramps "B" and "D". See FAILURE TO OPEN INTERCHANGE RAMPS "B" AND "D" TO TRAFFIC special provision for additional information.

Basis of Payment: This work will be paid for at the contract unit price per each for FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL. The transceiver required for the fiber optic interconnect system shall be paid for separately at the unit cost for TRANSCEIVER – FIBER OPTIC. All fiber optic equipment and connections required to transmit the detection data from the inductive loop detectors by means of fiber optic cable to the traffic signal controller shall be included in the cost for CONTROLLER CABINET TYPE IV, SPECIAL. Fiber optic connections and associated equipment required to connect the high mast light tower PTZ cameras to the fiber optic interconnect cable shall be included in the contract unit cost for FIBER OPTIC CABLE 6 FIBERS, SINGLE MODE.

CONTROLLER CABINET TYPE IV, SPECIAL

This work shall consist of furnishing and installing a traffic signal cabinet complete, which will include and house all equipment required to transmit the vehicular detection data from the inductive loop detectors to the traffic signal controller by way of fiber optic cable. The signal cabinet will contain applicable peripheral equipment, power supply and uninterruptible power supply.

The controller cabinet shall be a Super P, Type IV and be in accordance with applicable sections of Article 1074.03(a) as modified in CONTROLLER CABINET AND PERIPHERAL EQUIPMENT.

The Contractor shall furnish, test and install peripheral equipment including but not limited to a cabinet power supply for cabinet control equipment, TS2 detector rack, inductive loop detectors, contact closure fiber transceivers and any additional equipment required to transmit the detection data from the detector rack to the traffic signal controller by way of fiber optic cable.

Applicable peripheral equipment shall be in accordance with applicable sections of Article 1074.03 as modified in CONTROLLER CABINET AND PERIPHERAL EQUIPMENT.

The contact closure fiber transceiver(s) shall meet the requirements specified herein:

The contact closure fiber transceiver shall be of a sturdy, weatherproof design, able to operate reliably in the harsh cabinet environment. The device shall have an operating temperature at least between -40 degrees Fahrenheit (-40 C) and 167 degrees Fahrenheit (75 C) and operate within a relative humidity of 0 to 95% (non-condensing). All fiber optic components shall have the manufacturer's name, address, type, style, model or serial number, and catalog number secured to the equipment.

Revised 1/9/13

Each contact closure transceiver shall be capable of transmitting a minimum of 8 channels over one multimode or single-mode fiber. The contact closure transceiver shall have LED indicators that clearly show the contact status per channel (open/off, closed/on) and a power indicator for the device.

Contact Closure Properties

Input Type: Dry Contact / TTL Logic (positive)
Default Output Type: Normally Open / Logic Low
Maximum Contact Output Response Time: 2 ms

Optical Properties

Emitter Type: Laser Diode
Wavelength: 1310 or 1310/1550nm
Number of Fibers per Transceiver: 1

Connectors

Contact Closure: 8-pin screw terminal
Optical: ST

Contact closure fiber transceivers and all other fiber optic components, except for the interconnect cable itself, required to provide proper communications between the inductive loop detectors and the traffic signal controller shall be furnished and installed as part of this item.

The traffic signal communications cabinet shall be assembled only by an approved traffic signal equipment supplier. The cabinet shall be new, built, tested and approved by the controller equipment vendor, in the vendor's District One facility, prior to field installation. IDOT personnel shall be present during the testing at the vendor's facility. The vendor shall provide the technical equipment and assistance as required by the Engineer to fully test this equipment. The vendor shall ensure that the data from the detection channels are being transmitted to the controller by means of fiber optic cable and that the controller is receiving and interpreting the data correctly.

Basis of Payment: This work will be paid for at the contract unit price per each for CONTROLLER CABINET TYPE IV, SPECIAL, which shall include the cabinet housing and all peripheral equipment and fiber optic connections required to transmit the detection data from the inductive loop detectors by means of fiber optic cable to the traffic signal controller. The uninterruptible power supply shall be paid for separately at the contract unit price for UNINTERRUPTABLE POWER SUPPLY SPECIAL. The electrical service required to power the cabinet and its peripheral equipment shall be paid for separately at the contract unit price for ELECTRICAL SERVICE GROUND MOUNT. Fiber optic connections and related equipment required to connect the high mast light tower PTZ cameras to the fiber optic interconnect cable shall be included in the contract unit cost for FIBER OPTIC CABLE 6 FIBERS, SINGLE MODE.

Revised 1/9/13

UNINTERRUPTIBLE POWER SUPPLY

This special provision supersedes the IDOT District 1 Traffic Signal Specifications dated January 1, 2012 included within this Contract's Special Provisions.

Add the following to Article 862.01 of the Standard Specifications:

The UPS shall have the power capacity to provide normal operation of a signalized intersection that utilizes all LED type signal head optics, for a minimum of six hours.

Add the following to Article 862.02 of the Standard Specifications:

Materials shall be according to Article 1074.04 as modified in UNINTERRUPTIBLE POWER SUPPLY (UPS).

Add the following to Article 862.03 of the Standard Specifications:

The UPS shall additionally include, but not be limited to, a battery cabinet, where applicable. For Super R, Type V and Super P, Type IV cabinets, the battery cabinet is integrated to the traffic signal cabinet. For Super R and Super P cabinets, the integrated battery cabinet shall be included in the cost for the traffic signal cabinet of the size and type indicated on the plans.

The UPS shall provide reliable emergency power to the traffic signals in the event of a power failure or interruption.

Revise Article 862.04 of the Standard Specifications to read:

Revised 1/9/13

EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C

Description: This work shall consist of furnishing and installing lead-in cable for light detectors installed at existing and/or proposed traffic signal installations as part of an emergency vehicle priority system. The work includes installation of the lead-in cables in existing and/or new conduit. The electric cable shall be shielded and have three (3) stranded conductors colored blue, orange and yellow with a stranded tinned copper drain wire. The cable shall meet the requirements of the manufacturer of the Emergency Vehicle Priority System Equipment.

Basis of Payment: This work will be paid for at the contract unit price per foot for EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C, which price shall be payment in full for furnishing, installing and making all electrical connections necessary for proper operation.

Revised 1/9/13

5. Measurement.

The duct shall be measured for payment in feet in place as described herein. Measurements shall be made in straight lines between horizontal changes in direction between the centers of the terminating points (poles, cabinets, junction boxes). Vertical measurement of the duct shall be as follows:

For runs terminating at junction boxes and/or control cabinets, the vertical measurement shall be taken from the bottom of the trench, or horizontal raceway, to a point 18-inches beyond the center of the junction box or control cabinet.

For runs terminating at poles, the vertical measure shall be taken from the bottom of the trench, or horizontal raceway, to a point 18-inch beyond the center of the light pole handhole regardless of light pole mounting method

Innerduct installed in excess of the limits describes herein shall not be paid for.

6. Basis of Payment.

This item will be paid for at the contract unit price per foot for **INNERDUCT**, of the size of duct as indicated, which shall be payment in full for all material and work as specified herein.

CITY OF NAPERVILLE ELECTRICAL PERMIT

The Contract will be required to obtain an electrical permit from the City of Naperville for the proposed Electric Utility Service Connections required for the project. The following are the City of Naperville's requirements to obtain the permit:

1. The Contract will be required to prepare and submit the electrical permit form(s) and any required documents and pay the required electrical permit application fee(s). The application form and fee information is available at <http://www.naperville.il.us> or (630) 420-6046.
2. The Contractor or his sub-contractor performing the electrical work under this contract must be a registered Class A Electrical Contractor with the City of Naperville. Electrical contractor registration information is available at <http://www.naperville.il.us/electricalcontractorreg.aspx> or (630) 420-6046.
3. The Contractor or his sub-contractor must submit in person an Electrical Contractor Certification form to the City of Naperville Development Services located at 400 South Eagle Street; Naperville, Illinois 60540. The information Electrical Contractor Certification form can be obtained at <http://www.naperville.il.us/contractorforms.aspx>.
4. The Contractor or his sub-contractor shall be required to pay the IAC fee and any inspection fees require by the City of Naperville. The IAC fee has been estimated to be \$452 for the Electric Utility Services for this project.

Revised 1/9/13

Basis of Payment: The cost of meeting these requirements shall be included in the contract unit price for ELECTRIC UTILITY SERVICE CONNECTION. No additional compensation will be paid to the Contractor for any increase in the fees specified above or any additional fees required by the City of Naperville to obtain this permit.

ELECTRIC UTILITY SERVICE CONNECTION (CITY OF NAPERVILLE)

Description. This item shall consist of payment for work performed by Department of Public Utilities – Electric (DPU-E) of said City of Naperville, in providing new electric service(s) as indicated. THIS MAY INVOLVE WORK AT MORE THAN ONE ELECTRIC SERVICE. For summary of the Electrical Service Drop Locations see the schedule contained elsewhere herein.

CONSTRUCTION REQUIREMENTS

General. It shall be the Contractor's responsibility to contact DPU-E. The Contractor shall coordinate his work fully with the DPU-E both as to the work required and the timing of the installation. No additional compensation will be granted under this or any other item for extra work caused by failure to meet this requirement. **Please contact DPU-E, to begin the service connection process. The Call Center Representatives will create a work order for the service connection. The representative will ask the requestor for information specific to the request. The representative will assign the request based upon the location of project.**

The Contractor should make particular note of the need for the earliest attention to arrangements with DPU-E for service. In the event of delay by DPU-E, no extension of time will be considered applicable for the delay unless the Contractor can produce written evidence of a request for electric service within 30 days of execution.

Method Of Payment. The Contractor will be reimbursed to the exact amount of money as billed by DPU-E for its services. Work provided by the Contractor for electric service will be paid separately as described under ELECTRIC SERVICE INSTALLATION. No extra compensation shall be paid to the Contractor for any incidental materials and labor required to fulfill the requirements as shown on the plans and specified herein.

For bidding purposes, this item shall be estimated as \$58,500.00

Basis Of Payment. This work will be paid for at the contract lump sum price for **ELECTRIC UTILITY SERVICE CONNECTION** which shall be reimbursement in full for electric utility service charges.

Revised 1/9/13

SEEDING, CLASS 2A

This Special Provision revises Section 250 of the Standard Specifications to specify the application rates of fertilizer nutrients for seeded areas.

Modify the following Articles:

250.04 Fertilizer and Agricultural Ground Limestone Application.

Revise the third paragraph and the table to read.

When fertilizer is specified, 180 lb of fertilizer nutrients per acre shall be applied as follows.

Nitrogen Fertilizer Nutrients	90 lb/acre
Potassium Fertilizer Nutrients	90 lb/acre

KEEPING THE TOLLWAY OPEN TO TRAFFIC

Whenever work is in progress on or adjacent to an expressway, the Contractor shall provide the necessary traffic control devices to warn the public and to delineate the work zone as required in these Special Provision, the Standard Specifications, the State Standards, Tollway Standards. All Contractors' personnel shall be limited to these barricaded work zones and shall not cross the expressway. When these documents refer to "Expressway", they shall also signify "Tollway".

The Contractor shall request and gain approval from the Illinois Tollway prior to enacting lane closures in accordance with the Illinois Tollway Lane Closure Reference Guide, dated April 2012.

Revised 1/9/13

Allowable Temporary Lane Closures
 IDOT Contract 60I31
 (I-88/IL 59 Interchange Reconstruction)
 I-88, M.P. 121.4 to 125.2

DAY	ALLOWABLE 1-LANE CLOSURE TIMES	
	Eastbound	Westbound
Monday	7:00 p.m. – 5:00 a.m. Tues.	8:00 p.m. – 6:00 a.m. Tues.
Tuesday	7:00 p.m. – 5:00 a.m. Wed.	8:00 p.m. – 6:00 a.m. Wed.
Wednesday	7:00 p.m. – 5:00 a.m. Thru.	8:00 p.m. – 6:00 a.m. Thru.
Thursday	7:00 p.m.- 5:00 a.m. Fri.	8:00 p.m.- 6:00 a.m. Fri.
Friday	10:00 p.m.- 9:00 a.m. Sat.	10:00 p.m.- 9:00 a.m. Sat.
Saturday	9:00 a.m.- 9:00 a.m. Sun.	9:00 a.m.- 9:00 a.m. Sun.
Sunday	9:00 a.m.- 5:00 a.m. Mon.	9:00 a.m.- 6:00 a.m. Mon.

DAY	ALLOWABLE 2-LANE CLOSURE TIMES	
	Eastbound	Westbound
Monday	10:00 p.m. – 5:00 a.m. Tues.	11:00 p.m. – 5:00 a.m. Tues.
Tuesday	10:00 p.m. – 5:00 a.m. Wed.	11:00 p.m. – 5:00 a.m. Wed.
Wednesday	10:00 p.m. – 5:00 a.m. Thurs.	11:00 p.m. – 5:00 a.m. Thurs.
Thursday	10:00 p.m. – 5:00 a.m. Fri.	11:00 p.m. – 5:00 a.m. Fri.
Friday	11:00 p.m. – 6:00 a.m. Sat.	11:00 p.m. – 6:00 a.m. Sat.
Saturday	11:00 p.m. – 8:00 a.m. Sun.	11:00 p.m. – 8:00 a.m. Sun.
Sunday	10:00 p.m. – 5:00 a.m. Mon.	10:00 p.m. – 5:00 a.m. Mon.

MAINTENANCE OF TRAFFIC (TOLLWAY)

This Supplemental Specification amends and supersedes the provisions of the Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, adopted January 1, 2012 and shall be construed to be a part thereof, superseding any conflicting provisions thereof applicable to the work under the contract.

Replace this section in its entirety with the following:

701.01 Description and Special Conditions

General.

This work shall consist of the furnishing, installation, maintenance, relocation and removal of all standard signs, barricades, cones, warning lights, flaggers and other devices which are used for the purpose of warning, regulating, directing or otherwise controlling the flow of traffic where a public trafficway must be established and maintained through construction on the Tollway and Local and State Roads included in the work. Standard signs are those signs which appear in the MUTCD and the Illinois Supplement except those in Section 2E through 2J.

Revised 1/9/13

Revise the first sentence of Article 603.07 to read:

“603.07 Protection Under Traffic. After the casting has been adjusted and the Class PP concrete has been placed, the work shall be protected by a barricade and two lights according to Article 701.17(e)(3)b.”

AGGREGATE SUBGRADE IMPROVEMENT (D-1)

Effective: February 22, 2012

Revised: January 1, 2013

Add the following Section to the Standard Specifications:

“SECTION 303. AGGREGATE SUBGRADE IMPROVEMENT

303.01 Description. This work shall consist of constructing an aggregate subgrade improvement.

303.02 Materials. Materials shall be according to the following.

Item	Article/Section
(a) Coarse Aggregate	1004.06
(b) Reclaimed Asphalt Pavement (RAP) (Notes 1, 2)	1031

Note 1. Crushed RAP, from either full depth or single lift removal, may be mechanically blended with aggregate gradations CS 01 or CS 02 but shall not exceed 40 percent of the total product. The top size of the Coarse RAP shall be less than 4 in. (100 mm) and well graded.

Note 2. RAP having 100 percent passing the 1 1/2 in. (37.5 mm) sieve and being well graded, may be used as capping aggregate in the top 3 in. (75 mm) when aggregate gradations CS 01 or CS 02 are used in lower lifts. When RAP is blended with any of the coarse aggregates, the blending shall be done with mechanically calibrated feeders.

303.03 Equipment. The vibratory machine shall be according to Article 1101.01, or as approved by the Engineer.

303.04 Soil Preparation. The stability of the soil shall be according to the Department's Subgrade Stability Manual for the aggregate thickness specified.

303.05 Placing Aggregate. The maximum nominal lift thickness of aggregate gradations CS 01 or CS 02 shall be 24 in. (600 mm).

Revised 1/9/13

303.06 Capping Aggregate. The top surface of the aggregate subgrade shall consist of a minimum 3 in. (75 mm) of aggregate gradations CA 06 or CA 10. When Reclaimed Asphalt Pavement (RAP) is used, it shall be crushed and screened where 100 percent is passing the 1 1/2 in. (37.5 mm) sieve and being well graded. RAP that has been fractionated to size will not be permitted for use in capping. Capping aggregate will not be required when the aggregate subgrade improvement is used as a cubic yard pay item for undercut applications. When RAP is blended with any of the coarse aggregates, the blending shall be done with mechanically calibrated feeders.

303.07 Compaction. All aggregate lifts shall be compacted to the satisfaction of the Engineer. If the moisture content of the material is such that compaction cannot be obtained, sufficient water shall be added so that satisfactory compaction can be obtained.

303.08 Finishing and Maintenance of Aggregate Subgrade Improvement. The aggregate subgrade improvement shall be finished to the lines, grades, and cross sections shown on the plans, or as directed by the Engineer. The aggregate subgrade improvement shall be maintained in a smooth and compacted condition.

303.09 Method of Measurement. This work will be measured for payment according to Article 311.08.

303.10 Basis of Payment. This work will be paid for at the contract unit price per cubic yard (cubic meter) for AGGREGATE SUBGRADE IMPROVEMENT or at the contract unit price per square yard (square meter) for AGGREGATE SUBGRADE IMPROVEMENT, of the thickness specified.

Add the following to Section 1004 of the Standard Specifications:

“1004.06 Coarse Aggregate for Aggregate Subgrade Improvement. The aggregate shall be according to Article 1004.01 and the following.

- (a) Description. The coarse aggregate shall be crushed gravel, crushed stone, or crushed concrete.
- (b) Quality. The coarse aggregate shall consist of sound durable particles reasonably free of deleterious materials.
- (c) Gradation.
 - (1) The coarse aggregate gradation for total subgrade thickness less than or equal to 12 in. (300 mm) shall be CS 01.

The coarse aggregate gradation for total subgrade thickness more than 12 in. (300 mm) shall be CS 01 or CS 02.

Revised 1/9/13

Grad No.	COARSE AGGREGATE SUBGRADE GRADATIONS				
	Sieve Size and Percent Passing				
	8"	6"	4"	2"	#4
CS 01	100	97 ± 3	90 ± 10	45 ± 25	20 ± 20
CS 02		100	80 ± 10	25 ± 15	

Grad No.	COARSE AGGREGATE SUBGRADE GRADATIONS (Metric)				
	Sieve Size and Percent Passing				
	200 mm	150 mm	100 mm	50 mm	4.75 mm
CS 01	100	97 ± 3	90 ± 10	45 ± 25	20 ± 20
CS 02		100	80 ± 10	25 ± 15	

(2) The 3 in. (75 mm) capping aggregate shall be gradation CA 6 or CA 10."

DRAINAGE AND INLET PROTECTION UNDER TRAFFIC (DISTRICT 1)

Effective: April 1, 2011

Revised: April 2, 2011

Add the following to Article 603.02 of the Standard Specifications:

- “(i) Temporary Hot-Mix Asphalt (HMA) Ramp (Note 1) 1030
- “(j) Temporary Rubber Ramps (Note 2)

Note 1. The HMA shall have maximum aggregate size of 3/8 in. (95 mm).

Note 2. The rubber material shall be according to the following.

Property	Test Method	Requirement
Durometer Hardness, Shore A	ASTM D 2240	75 ±15
Tensile Strength, psi (kPa)	ASTM D 412	300 (2000) min
Elongation, percent	ASTM D 412	90 min
Specific Gravity	ASTM D 792	1.0 - 1.3
Brittleness, °F (°C)	ASTM D 746	-40 (-40)"

Revised 1/9/13

RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES (D-1)

Effective: November 1, 2012

Revise: January 1, 2013

Revise Section 1031 of the Standard Specifications to read:

“SECTION 1031. RECLAIMED ASPHALT PAVEMENT AND RECLAIMED ASPHALT SHINGLES

1031.01 Description. Reclaimed asphalt pavement and reclaimed asphalt shingles shall be according to the following.

- (a) Reclaimed Asphalt Pavement (RAP). RAP is the material resulting by cold milling or crushing an existing hot-mix asphalt (HMA) pavement. RAP will be considered processed FRAP after completion of both crushing and screening to size. The Contractor shall supply written documentation that the RAP originated from routes or airfields under federal, state, or local agency jurisdiction.
- (b) Reclaimed Asphalt Shingles (RAS). Reclaimed asphalt shingles (RAS). RAS is from the processing and grinding of preconsumer or post-consumer shingles. RAS shall be a clean and uniform material with a maximum of 0.5 percent unacceptable material, as defined in Bureau of Materials and Physical Research Policy Memorandum “Reclaimed Asphalt Shingle (RAS) Sources”, by weight of RAS. All RAS used shall come from a Bureau of Materials and Physical Research approved processing facility where it shall be ground and processed to 100 percent passing the 3/8 in. (9.5 mm) sieve and 90 percent passing the #4 (4.75 mm) sieve . RAS shall meet the testing requirements specified herein. In addition, RAS shall meet the following Type 1 or Type 2 requirements.
 - (1) Type 1. Type 1 RAS shall be processed, preconsumer asphalt shingles salvaged from the manufacture of residential asphalt roofing shingles.
 - (2) Type 2. Type 2 RAS shall be processed post-consumer shingles only, salvaged from residential, or four unit or less dwellings not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP).

1031.02 Stockpiles. RAP and RAS stockpiles shall be according to the following.

- (a) RAP Stockpiles. The Contractor shall construct individual, sealed RAP stockpiles meeting one of the following definitions. No additional RAP shall be added to the pile after the pile has been sealed. Stockpiles shall be sufficiently separated to prevent intermingling at the base. All stockpiles (including unprocessed RAP and Processed FRAP) shall be identified by signs indicating the type as listed below (i.e. “Non- Quality, FRAP -#4 or Type 2 RAS”, etc...).

Revised 1/9/13

- (1) Fractionated RAP (FRAP). FRAP shall consist of RAP from Class I, Superpave HMA (High and Low ESAL) or equivalent mixtures. The coarse aggregate in FRAP shall be crushed aggregate and may represent more than one aggregate type and/or quality but shall be at least C quality. All FRAP shall be processed prior to testing sized into fractions with the separation occurring on or between the #4 (4.75 mm) and 1/2 in. (12.5 mm) sieves. Agglomerations shall be minimized such that 100 percent of the RAP in the coarse fraction shall pass the maximum sieve size specified for the mix the RAP will be used in.
- (2) Restricted FRAP (B quality) stockpiles shall consist of RAP from Class I, Superpave (High ESAL), or HMA (High ESAL). If approved by the Engineer, the aggregate from a maximum 3.0 inch single combined pass of surface/binder milling will be classified as B quality. All millings from this application will be processed into FRAP as described previously.
- (3) Conglomerate. Conglomerate RAP stockpiles shall consist of RAP from Class I, Superpave HMA (High and Low ESAL) or equivalent mixtures. The coarse aggregate in this RAP shall be crushed aggregate and may represent more than one aggregate type and/or quality but shall be at least C quality. This RAP may have an inconsistent gradation and/or asphalt binder content prior to processing. All conglomerate RAP shall be processed (FRAP) prior to testing. Conglomerate RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.
- (4) Conglomerate "D" Quality (DQ). Conglomerate DQ RAP stockpiles shall consist of RAP from from HMA shoulders, bituminous stabilized subbases or Superpave (Low ESAL)/HMA (Low ESAL) IL-19.0L binder mixture. The coarse aggregate in this RAP may be crushed or round but shall be at least D quality. This RAP may have an inconsistent gradation and/or asphalt binder content. Conglomerate DQ RAP stockpiles shall not contain steel slag or other expansive material as determined by the Department.
- (5) Non-Quality. RAP stockpiles that do not meet the requirements of the stockpile categories listed above shall be classified as "Non-Quality".

RAP/FRAP containing contaminants, such as earth, brick, sand, concrete, sheet asphalt, bituminous surface treatment (i.e. chip seal), pavement fabric, joint sealants, plant cleanout etc., will be unacceptable unless the contaminants are removed to the satisfaction of the Engineer. Sheet asphalt shall be stockpiled separately.

- (b) RAS Stockpiles. The Contractor shall construct individual, sealed RAS stockpiles meeting one of the following definitions. No additional RAS shall be added to the pile after the pile has been sealed. Type 1 and Type 2 RAS shall be stockpiled separately and shall be sufficiently separated to prevent intermingling at the base. Each stockpile shall be signed indicating what type of RAS is present.

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However, a RAS source may submit a written request to the Department for approval to blend mechanically a specified ratio of type 1 RAS with type 2 RAS. The source will not be permitted to change the ratio of the blend without the Department prior written approval. The Engineer's written approval will be required, to mechanically blend RAS with any fine aggregate produced under the AGCS, up to an equal weight of RAS, to improve workability. The fine aggregate shall be "B Quality" or better from an approved Aggregate Gradation Control System source. The fine aggregate shall be one that is approved for use in the HMA mixture and accounted for in the mix design and during HMA production.

Records identifying the shingle processing facility supplying the RAS, RAS type and lot number shall be maintained by project contract number and kept for a minimum of three years.

1031.03 Testing. RAP/FRAP and RAS testing shall be according to the following.

(a) RAP/FRAP Testing. When used in HMA, the RAP/FRAP shall be sampled and tested either during processing or after stockpiling.

(1) During Stockpiling. For testing during stockpiling, washed extraction samples shall be run at the minimum frequency of one sample per 500 tons (450 metric tons) for the first 2000 tons (1800 metric tons) and one sample per 2000 tons (1800 metric tons) thereafter. A minimum of five tests shall be required for stockpiles less than 4000 tons (3600 metric tons).

(2) After Stockpiling. For testing after stockpiling, the Contractor shall submit a plan for approval to the District proposing a satisfactory method of sampling and testing the RAP/FRAP pile either in-situ or by restockpiling. The sampling plan shall meet the minimum frequency required above and detail the procedure used to obtain representative samples throughout the pile for testing.

Before extraction, each field sample whether RAP or FRAP, shall be split to obtain two samples of test sample size. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall extract the other test sample according to Department procedure. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

(b) RAS Testing. RAS shall be sampled and tested either during or after stockpiling.

During stockpiling, washed extraction, and testing for unacceptable materials shall be run at the minimum frequency of one sample per 200 tons (180 metric tons) for the first 1000 tons (900 metric tons) and one sample per 1000 tons (900 metric tons) thereafter. A minimum of five samples are required for stockpiles less than 1000 tons (900 metric tons). Once a ≤ 1000 ton (900 metric ton), five-sample/test stockpile has been established it shall be sealed. Additional incoming RAS shall be stockpiled in a separate working pile as designated in the Quality Control plan and only added to the sealed stockpile when the test results of the working pile are complete and are found to meet the tolerances specified herein for the original sealed RAS stockpile.

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Before extraction, each field sample shall be split to obtain two samples of test sample size. One of the two test samples from the final split shall be labeled and stored for Department use. The Contractor shall extract the other test sample according to Department procedures. The Engineer reserves the right to test any sample (split or Department-taken) to verify Contractor test results.

1031.04 Evaluation of Tests. Evaluation of tests results shall be according to the following.

- (a) Evaluation of RAP/FRAP Test Results. All of the extraction results shall be compiled and averaged for asphalt binder content and gradation and, when applicable (for slag) G_{mm} . Individual extraction test results, when compared to the averages, will be accepted if within the tolerances listed below.

Parameter	RAP or FRAP	Conglomerate "D" Quality RAP
1 in. (25 mm)		± 5 %
1/2 in. (12.5 mm)	± 8 %	± 15 %
No. 4 (4.75 mm)	± 6 %	± 13 %
No. 8 (2.36 mm)	± 5 %	
No. 16 (1.18 mm)		± 15 %
No. 30 (600 μm)	± 5 %	
No. 200 (75 μm)	± 2.0 %	± 4.0 %
Asphalt Binder	± 0.4 % ^{1/}	± 0.5 %
G_{mm}	± 0.03 ^{2/}	

1/ The tolerance for FRAP shall be ± 0.3 %.

2/ For slag and steel slag

If more than 20 percent of the individual sieves and/or asphalt binder content tests are out of the above tolerances, the RAP/FRAP shall not be used in HMA unless the RAP/FRAP representing the failing tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

With the approval of the Engineer, the ignition oven may be substituted for extractions according to the Illinois Test Procedure, "Calibration of the Ignition Oven for the Purpose of Characterizing Reclaimed Asphalt Pavement (RAP)".

- (b) Evaluation of RAS Test Results. All of the test results, with the exception of percent unacceptable materials, shall be compiled and averaged for asphalt binder content and gradation. Individual test results, when compared to the averages, will be accepted if within the tolerances listed below.

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Parameter	RAS
No. 8 (2.36 mm)	± 5 %
No. 16 (1.18 mm)	± 5 %
No. 30 (600 µm)	± 4 %
No. 200 (75 µm)	± 2.0 %
Asphalt Binder Content	± 1.5 %

If more than 20 percent of the individual sieves and/or asphalt binder content tests are out of the above tolerances, the RAS shall not be used in Department projects unless the RAS, RAP or FRAP representing the failing tests is removed from the stockpile. All test data and acceptance ranges shall be sent to the District for evaluation.

1031.05 Quality Designation of Aggregate in RAP/FRAP.

(a) RAP. The aggregate quality of the RAP for homogenous, conglomerate, and conglomerate “D” quality stockpiles shall be set by the lowest quality of coarse aggregate in the RAP stockpile and are designated as follows.

- (1) RAP from Class I, Superpave (High ESAL)/HMA (High ESAL), or (Low ESAL) IL-9.5L surface mixtures are designated as containing Class B quality coarse aggregate.
- (2) RAP from Superpave (High ESAL)/HMA (Low ESAL) IL-19.0L binder mixture is designated as Class D quality coarse aggregate.
- (3) RAP from Class I, Superpave (High ESAL)/HMA (High ESAL) binder mixtures, bituminous base course mixtures, and bituminous base course widening mixtures are designated as containing Class C quality coarse aggregate.
- (4) RAP from bituminous stabilized subbase and BAM shoulders are designated as containing Class D quality coarse aggregate.

(b) FRAP. If the Engineer has documentation of the quality of the FRAP aggregate, the Contractor shall use the assigned quality provided by the Engineer.

If the quality is not known, the quality shall be determined as follows. Fractionated RAP stockpiles containing plus #4 (4.75 mm) sieve coarse aggregate shall have a maximum tonnage of 5,000 tons (4,500 metric tons). The Contractor shall obtain a representative sample witnessed by the Engineer. The sample shall be a minimum of 50 lb (25 kg). The sample shall be extracted according to Illinois Modified AASHTO T 164 by a consultant prequalified by the Department for the specified testing. The consultant shall submit the test results along with the recovered aggregate to the District Office. The cost for this testing shall be paid by the Contractor. The District will forward the sample to the BMRP Aggregate Lab for MicroDeval Testing, according to Illinois Modified AASHTO T 327. A maximum loss of 15.0 percent will be applied for all HMA applications. The fine aggregate portion of the fractionated RAP shall not be used in any HMA mixtures that require a minimum of “B” quality aggregate or better, until the coarse aggregate fraction has been determined to be acceptable thru a MicroDeval Testing.

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1031.06 Use of RAS, RAP or FRAP in HMA. The use of RAS, RAP or FRAP shall be a Contractor's option when constructing HMA in all contracts.

(a) RAP/FRAP. The use of RAP/FRAP in HMA shall be as follows.

- (1) Coarse Aggregate Size (after extraction). The coarse aggregate in all RAP shall be equal to or less than the nominal maximum size requirement for the HMA mixture to be produced.
- (2) Steel Slag Stockpiles. RAP/FRAP stockpiles containing steel slag or other expansive material, as determined by the Department, shall be homogeneous and will be approved for use in HMA (High ESAL and Low ESAL) mixtures regardless of lift or mix type.
- (3) Use in HMA Surface Mixtures (High and Low ESAL). RAP/FRAP stockpiles for use in HMA surface mixtures (High and Low ESAL) shall have coarse aggregate that is Class B quality or better. RAP/FRAP shall be considered equivalent to limestone for frictional considerations unless produced/screened to minus 3/8 inch.
- (4) Use in HMA Binder Mixtures (High and Low ESAL), HMA Base Course, and HMA Base Course Widening. RAP/FRAP stockpiles for use in HMA binder mixtures (High and Low ESAL), HMA base course, and HMA base course widening shall be FRAP in which the coarse aggregate is Class C quality or better.
- (5) Use in Shoulders and Subbase. RAP/FRAP stockpiles for use in HMA shoulders and stabilized subbase (HMA) shall be RAP, Restricted FRAP, conglomerate, or conglomerate DQ.

(b) RAS. RAS meeting Type 1 or Type 2 requirements will be permitted in all HMA applications as specified herein.

(c) RAP/FRAP and/or RAS Usage Limits. Type 1 or Type 2 RAS may be used alone or in conjunction with RAP or FRAP in HMA mixtures up to a maximum of 5.0% by weight of the total mix.

When the Contractor chooses the RAP option, the percentage of the percentage of virgin asphalt binder replaced by the asphalt binder from the RAP shall not exceed the percentages indicated in the table below for a given N Design:

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Max Asphalt Binder Replacement RAP Only
 Table 1

HMA Mixtures ^{1/, 2/}	Maximum % Asphalt Binder replacement (ABR)		
	Binder/Leveling Binder	Surface	Polymer Modified
Ndesign			
30L	25	15	10
50	25	15	10
70	15	10	10
90	10	10	10
105	10	10	10
4.75 mm N-50			15
SMA N-80			10

1/ For HMA “All Other” (shoulder and stabilized subbase) N-30, the percent asphalt binder replacement shall not exceed 50% of the total asphalt binder in the mixture.

2/ When the asphalt binder replacement exceeds 15 percent, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent binder replacement would require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28). When constructing full depth HMA and the ABR is less than 15 percent, the required virgin asphalt binder grade shall be PG64-28.

When the Contractor chooses either the RAS or FRAP option, the percent binder replacement shall not exceed the amounts indicated in the tables below for a given N Design.

Max Asphalt Binder Replacement RAS or FRAP
 Table 2

HMA Mixtures ^{1/, 2/}	Level 1 - Maximum % ABR		
	Binder/Leveling Binder	Surface	Polymer ^{3/, 4/} Modified
Ndesign			
30L	35	30	15
50	30	25	15
70	30	20	15
90	20	15	15
105	20	15	15
4.75 mm N-50			25
SMA N-80			15

1/ For HMA “All Other” (shoulder and stabilized subbase) N-30, the percent asphalt binder replacement shall not exceed 50% of the total asphalt binder in the mixture.

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2/ When the asphalt binder replacement exceeds 15 percent for all mixes, except for SMA and IL-4.75, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent binder replacement will require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28). When constructing full depth HMA and the ABR is less than 15 percent, the required virgin asphalt binder grade shall be PG64-28.

3/ When the ABR for SMA is 15 percent or less, the required virgin asphalt binder grade shall be SBS PG76-22.

4/ When the ABR for IL-4.75 mix is 15 percent or less, the required virgin asphalt binder grade shall be SBS PG76-22. When the ABR for the IL-4.75 mix exceeds 15 percent, the virgin asphalt binder grade shall be SBS PG70-28.

When the Contractor chooses the RAS with FRAP combination, the percent asphalt binder replacement shall split equally between the RAS and the FRAP, and the total replacement shall not exceed the amounts indicated in the tables below for a given N Design.

Max Asphalt Binder Replacement RAS and FRAP Combination
 Table 3

HMA Mixtures ^{1/, 2/}	Level 2 - Maximum % ABR		
Ndesign	Binder/Leveling Binder	Surface	Polymer Modified ^{3/, 4/}
30L	50	40	30
50	40	35	30
70	40	30	30
90	40	30	30
105	40	30	30
4.75 mm N-50			40
SMA N-80			30

1/ For HMA "All Other" (shoulder and stabilized subbase) N-30, the percent asphalt binder replacement shall not exceed 50% of the total asphalt binder in the mixture.

2/ When the binder replacement exceeds 15 percent for all mixes, except for SMA and IL-4.75, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25 percent binder replacement will require a virgin asphalt binder grade of PG64-22 to be reduced to a PG58-28).

3/ When the ABR for SMA is 15 percent or less, the required virgin asphalt binder shall be SBS PG76-22. When the ABR for SMA exceeds 15%, the virgin asphalt binder grade shall be SBS PG70-28.

4/ When the ABR for IL-4.75 mix is 15 percent or less, the required virgin asphalt binder grade shall be SBS PG76-22. When the ABR for the IL-4.75 mix exceeds 15 percent, the virgin asphalt binder grade shall be SBS PG70-28.

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1031.07 HMA Mix Designs. At the Contractor's option, HMA mixtures may be constructed utilizing RAP/FRAP and/or RAS material meeting the above detailed requirements.

All HMA mixtures will be required to be tested, prior to submittal for Department verification, according to Illinois Modified AASHTO T324 (Hamburg Wheel) and shall meet the following requirements:

Asphalt Binder Grade	# Repetitions	Max Rut Depth (mm)
PG76-XX	20,000	12.5
PG70-XX	20,000	12.5
PG64-XX	10,000	12.5
PG58-XX	10,000	12.5
PG52-XX	10,000	12.5
PG46-XX	10,000	12.5

Note: For SMA Designs (N-80) the maximum rut depth is 6.0 mm at 20,000 repetitions.
 For IL 4.75 mm Designs (N-50) the maximum rut depth is 9.0 mm at 15,000 repetitions.

1031.08 HMA Production. All HMA mixtures shall be sampled within the first 500 tons (450 metric tons) on the first day of production or during start up with a split reserved for the Department. The mix sample shall be tested according to the Illinois Modified AASHTO T 324 and shall meet the requirements specified herein. Mix production shall not exceed 1500 tons (1350 metric tons) or one day's production, whichever comes first, until the testing is completed and the mixture is found to be in conformance. The requirement to cease mix production may be waived if the plant produced mixture demonstrates conformance prior to start of mix production for a contract.

To remove or reduce agglomerated material, a scalping screen, gator, crushing unit, or comparable sizing device approved by the Engineer shall be used in the RAS, RAP and FRAP feed system to remove or reduce oversized material. If material passing the sizing device adversely affects the mix production or quality of the mix, the sizing device shall be set at a size specified by the Engineer.

If the RAS, RAP and FRAP control tolerances or QC/QA test results require corrective action, the Contractor shall cease production of the mixture containing RAs, RAP or FRAP and either switch to the virgin aggregate design or submit a new RAS, RAP or FRAP design.

- (a) RAP/FRAP. The coarse aggregate in all RAP/FRAP used shall be equal to or less than the maximum size requirement for the HMA mixture being produced.
- (b) RAS. RAS shall be incorporated into the HMA mixture either by a separate weight depletion system or by using the RAP weigh belt. Either feed system shall be interlocked with the aggregate feed or weigh system to maintain correct proportions for all rates of production and batch sizes. The portion of RAS shall be controlled accurately to within ± 0.5 percent of the amount of RAS utilized. When using the weight depletion system, flow indicators or sensing devices shall be provided and interlocked with the plant controls such that the mixture production is halted when RAS flow is interrupted.

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- (c) RAS, RAP and FRAP. HMA plants utilizing RAS, RAP and FRAP shall be capable of automatically recording and printing the following information.

(1) Dryer Drum Plants.

- a. Date, month, year, and time to the nearest minute for each print.
- b. HMA mix number assigned by the Department.
- c. Accumulated weight of dry aggregate (combined or individual) in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
- d. Accumulated dry weight of RAS, RAP and FRAP in tons (metric tons) to the nearest 0.1 ton (0.1 metric ton).
- e. Accumulated mineral filler in revolutions, tons (metric tons), etc. to the nearest 0.1 unit.
- f. Accumulated asphalt binder in gallons (liters), tons (metric tons), etc. to the nearest 0.1 unit.
- g. Residual asphalt binder in the RAS, RAP and FRAP material as a percent of the total mix to the nearest 0.1 percent.
- h. Aggregate RAS, RAP and FRAP moisture compensators in percent as set on the control panel. (Required when accumulated or individual aggregate and RAS, RAP and FRAP are printed in wet condition.)
- i. When producing mixtures with FRAP and/or RAS, a positive dust control system shall be utilized.
- j. Accumulated mixture tonnage.
- k. Dust Removed (accumulated to the nearest 0.1 ton)

(2) Batch Plants.

- a. Date, month, year, and time to the nearest minute for each print.
- b. HMA mix number assigned by the Department.
- c. Individual virgin aggregate hot bin batch weights to the nearest pound (kilogram).
- d. Mineral filler weight to the nearest pound (kilogram).
- f. RAS, RAP and FRAP weight to the nearest pound (kilogram).
- g. Virgin asphalt binder weight to the nearest pound (kilogram).
- h. Residual asphalt binder in the RAS, RAP and FRAP material as a percent of the total mix to the nearest 0.1 percent.

The printouts shall be maintained in a file at the plant for a minimum of one year or as directed by the Engineer and shall be made available upon request. The printing system will be inspected by the Engineer prior to production and verified at the beginning of each construction season thereafter.

1031.09 RAP in Aggregate Surface Course and Aggregate Shoulders. The use of RAP or FRAP in aggregate surface course and aggregate shoulders shall be as follows.

- (a) Stockpiles and Testing. RAP stockpiles may be any of those listed in Article 1031.02, except "Non-Quality" and "FRAP". The testing requirements of Article 1031.03 shall not apply.
- (b) Gradation. One hundred percent of the RAP material shall pass the 1 1/2 in. (37.5mm) sieve. The RAP material shall be reasonably well graded from coarse to fine. RAP material that is gap-graded, FRAP, or single sized will not be accepted for use as Aggregate Surface Course and Aggregate Shoulders."

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- (g) **ENFORCEMENT.** The Department reserves the right to withhold payment to the Contractor to enforce the provisions of this Special Provision. Final payment shall not be made on the contract until such time as the Contractor submits sufficient documentation demonstrating achievement of the goal in accordance with this Special Provision or after liquidated damages have been determined and collected.
- (h) **RECONSIDERATION.** Notwithstanding any other provision of the contract, including but not limited to Article 109.09 of the Standard Specifications, the Contractor may request administrative reconsideration of a decision to deduct the amount of the goal not achieved as liquidated damages. A request to reconsider shall be delivered to the Contract Compliance Section and shall be handled and considered in the same manner as set forth in paragraph (c) of "Good Faith Effort Procedures" of this Special Provision, except a final decision that a good faith effort was not made during contract performance to achieve the goal agreed to in the Utilization Plan shall be the final administrative decision of the Department.

FRICTION SURFACE AGGREGATE (D1)

Effective: January 1, 2011
Revised: November 1, 2012

Revise Article 1004.01(a)(4) of the Standard Specifications to read:

- "(4) Crushed Stone. Crushed stone shall be the angular fragments resulting from crushing undisturbed, consolidated deposits of rock by mechanical means. Crushed stone shall be divided into the following, when specified.
- a. Carbonate Crushed Stone. Carbonate crushed stone shall be either dolomite or limestone. Dolomite shall contain 11.0 percent or more magnesium oxide (MgO). Limestone shall contain less than 11.0 percent magnesium oxide (MgO).
 - b. Crystalline Crushed Stone. Crystalline crushed stone shall be either metamorphic or igneous stone, including but is not limited to, quartzite, granite, rhyolite and diabase."

Revise Article 1004.03(a) of the Standard Specifications to read:

"1004.03 Coarse Aggregate for Hot-Mix Asphalt (HMA). The aggregate shall be according to Article 1004.01 and the following revisions.

- (a) Description. The coarse aggregate for HMA shall be according to the following table.

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Use	Mixture	Aggregates Allowed		
Class A	Seal or Cover	<u>Allowed Alone or in Combination:</u> Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) Crushed Steel Slag Crushed Concrete		
HMA All Other	Shoulders	<u>Allowed Alone or in Combination:</u> Gravel Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) ^{1/} Crushed Steel Slag ^{1/} Crushed Concrete		
HMA High ESAL Low ESAL	C Surface IL-12.5,IL-9.5, or IL-9.5L	<u>Allowed Alone or in Combination:</u> Crushed Gravel Carbonate Crushed Stone Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) ^{1/} Crushed Steel Slag ^{1/} Crushed Concrete		
HMA High ESAL	D Surface IL-12.5 or IL-9.5	<u>Allowed Alone or in Combination:</u> Crushed Gravel Carbonate Crushed Stone (other than Limestone) Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) ^{1/} Crushed Steel Slag ^{1/} Crushed Concrete		
		<u>Other Combinations Allowed:</u>		
		<table border="1"> <tr> <td><i>Up to...</i></td> <td><i>With...</i></td> </tr> <tr> <td>25% Limestone</td> <td>Dolomite</td> </tr> </table>	<i>Up to...</i>	<i>With...</i>
<i>Up to...</i>	<i>With...</i>			
25% Limestone	Dolomite			

Use	Mixture	Aggregates Allowed			
		50% Limestone	Any Mixture D aggregate other than Dolomite		
		75% Limestone	Crushed Slag (ACBF) ^{1/} or Crushed Sandstone		
HMA High ESAL	F Surface IL-12.5 or IL-9.5	<u>Allowed Alone or in Combination:</u> Crystalline Crushed Stone Crushed Sandstone Crushed Slag (ACBF) ^{1/} Crushed Steel Slag ^{1/} No Limestone or no Crushed Gravel alone.			
		<u>Other Combinations Allowed:</u> <table border="1" data-bbox="703 1031 1295 1077"> <tr> <td data-bbox="703 1031 992 1077"><i>Up to...</i></td> <td data-bbox="992 1031 1295 1077"><i>With...</i></td> </tr> </table>		<i>Up to...</i>	<i>With...</i>
<i>Up to...</i>	<i>With...</i>				
		50% Crushed Gravel, or Dolomite	Crushed Sandstone, Crushed Slag (ACBF) ^{1/} , Crushed Steel Slag ^{1/} , or Crystalline Crushed Stone		
HMA High ESAL	SMA Ndesign 80 Surface	Crystalline Crushed Stone Crushed Sandstone Crushed Steel Slag ^{1/}			

1/ When either slag is used, the blend percentages listed shall be by volume.

GRANULAR MATERIALS (BDE)

Effective: November 1, 2012

Revise the title of Article 1003.04 of the Standard Specifications to read:

“1003.04 Fine Aggregate for Bedding, Trench Backfill, Embankment, Porous Granular Backfill, Sand Backfill for Underdrains, and French Drains.”

Revise Article 1003.04(c) of the Standard Specifications to read:

“(c) Gradation. The fine aggregate gradations for granular embankment, granular backfill, bedding, and trench backfill for pipe culverts and storm sewers shall be FA 1, FA 2, or FA 6 through FA 21.

The fine aggregate gradation for porous granular embankment, porous granular backfill, french drains, and sand backfill for underdrains shall be FA 1, FA 2, or FA 20, except the percent passing the No. 200 (75 µm) sieve shall be 2±2.”

Revise Article 1004.05(c) of the Standard Specifications to read:

“(c) Gradation. The coarse aggregate gradations shall be as follows.

Application	Gradation
Blotter	CA 15
Granular Embankment, Granular Backfill, Bedding, and Trench Backfill for Pipe Culverts and Storm Sewers	CA 6, CA 9, CA 10, CA 12, CA17, CA18, and CA 19
Porous Granular Embankment, Porous Granular Backfill, and French Drains	CA 7, CA 8, CA 11, CA 15, CA 16 and CA 18”

Revised 1/9/13

PROJECT LABOR AGREEMENT - QUARTERLY EMPLOYMENT REPORT

Public Act 97-0199 requires the Department to submit quarterly reports regarding the number of minorities and females employed under Project Labor Agreements. To assist in this reporting effort, the Contractor shall provide a quarterly workforce participation report for all minority and female employees working under the project labor agreement of this contract. The data shall be reported on Construction Form BC 820, Project Labor Agreement (PLA) Workforce Participation Quarterly Reporting Form available on the Department's website <http://www.dot.il.gov/const/conforms.html>.

The report shall be submitted no later than the 15th of the month following the end of each quarter (i.e. April 15 for the January – March reporting period). The form shall be emailed to DOT.PLA.Reporting@illinois.gov or faxed to (217) 524-4922.

Any costs associated with complying with this provision shall be considered as included in the contract unit prices bid for the various items of work involved and no additional compensation will be allowed.

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Illinois Department of Transportation
PROJECT LABOR AGREEMENT

This Project Labor Agreement (“PLA” or “Agreement”) is entered into this _____ day of _____, 2013, by and between the Illinois Department of Transportation (“IDOT” or “Department”) in its proprietary capacity, and each relevant Illinois AFL-CIO Building Trades signatory hereto as determined by the Illinois AFL-CIO Statewide Project Labor Agreement Committee on behalf of each of its affiliated members (individually and collectively, the “Unions”). This PLA shall apply to Construction Work (as defined herein) to be performed by IDOT’s Prime Contractor and each of its subcontractors of whatever tier (“Subcontractor” or “Subcontractors”) on Contract No. _____ (hereinafter, the “Project”).

ARTICLE 1 - INTENT AND PURPOSES

- 1.1 This PLA is entered into in accordance with the Project Labor Agreement Act (“Act”, 30 ILCS 571). It is mutually understood and agreed that the terms and conditions of this PLA are intended to promote the public interest in obtaining timely and economical completion of the Project by encouraging productive and efficient construction operations; by establishing a spirit of harmony and cooperation among the parties; and by providing for peaceful and prompt settlement of any and all labor grievances or jurisdictional disputes of any kind without strikes, lockouts, slowdowns, delays, or other disruptions to the prosecution of the work. The parties acknowledge the obligations of the Contractors and Subcontractors to comply with the provisions of the Act. The parties will work with the Contractors and Subcontractors within the parameters of other statutory and regulatory requirements to implement the Act’s goals and objectives.
- 1.2 As a condition of the award of the contract for performance of work on the Project, IDOT’s Prime Contractor and each of its Subcontractors shall execute a “Contractor Letter of Assent”, in the form attached hereto as Exhibit A, prior to commencing Construction Work on the Project. The Contractor shall submit a Subcontractor’s Contractor Letter of Assent to the Department prior to the Subcontractor’s performance of Construction Work on the Project. Upon request copies of the applicable collective bargaining agreements will be provided by the appropriate signatory labor organization consistent with this Agreement and at the pre-job conference referenced in Article III, Section 3.1.
- 1.3 Each Union affiliate and separate local representing workers engaged in Construction Work on the Project in accordance with this PLA are bound to this agreement by the Illinois AFL-CIO Statewide Project Labor Agreement Committee which is the central committee established with full authority to negotiate and sign PLAs with the State on behalf of all respective crafts. Upon their signing the Contractor Letter of Assent, the Prime Contractor, each Subcontractor, and the individual Unions shall thereafter be deemed a party to this PLA. No party signatory to this PLA shall, contract or subcontract, nor permit any other person, firm, company, or entity to contract or subcontract for the performance of Construction Work for the Project to any person, firm, company, or entity that does not agree in writing to become bound for the term of this Project by the terms of this PLA prior to commencing such work and to the applicable area-wide collective bargaining agreement(s) with the Union(s) signatory hereto.

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- 1.4 It is understood that the Prime Contractor(s) and each Subcontractor will be considered and accepted by the Unions as separate employers for the purposes of collective bargaining, and it is further agreed that the employees working under this PLA shall constitute a bargaining unit separate and distinct from all others. The parties hereto also agree that this PLA shall be applicable solely with respect to this Project, and shall have no bearing on the interpretation of any other collective bargaining agreement or as to the recognition of any bargaining unit other than for the specific purposes of this Project.
- 1.5 In the event of a variance or conflict, whether explicit or implicit, between the terms and conditions of this PLA and the provisions of any other applicable national, area, or local collective bargaining agreement, the terms and conditions of this PLA shall supersede and control. For any work performed under the NTL Articles of Agreement, the National Stack/Chimney Agreement, the National Cooling Tower Agreement, the National Agreement of the International Union of Elevator Constructors, and for any instrument calibration work and loop checking performed under the UA/IBEW Joint National Agreement for Instrument and Control Systems Technicians, the preceding sentence shall apply only with respect to Articles I, II, V, VI, and VII.
- 1.6 Subject to the provisions of paragraph 1.5 of this Article, it is the parties' intent to respect the provisions of any other collective bargaining agreements that may now or hereafter pertain, whether between the Prime Contractor and one or more of the Unions or between a Subcontractor and one or more of the Unions. Accordingly, except and to the extent of any contrary provision set forth in this PLA, the Prime Contractor and each of its Subcontractors agrees to be bound and abide by the terms of the following in order of precedence: (a) the applicable collective bargaining agreement between the Prime Contractor and one or more of the Unions made signatory hereto; (b) the applicable collective bargaining agreement between a Subcontractor and one or more of the Unions made signatory hereto; or (c) the current applicable area collective bargaining agreement for the relevant Union that is the agreement certified by the Illinois Department of Labor for purposes of establishing the Prevailing Wage applicable to the Project. The Union will provide copies of the applicable collective bargaining agreements pursuant to part (c) of the preceding sentence to the Prime Contractor. Assignments by the Contractors or Subcontractors amongst the trades shall be consistent with area practices; in the event of unresolved disagreements as to the propriety of such assignments, the provisions of Article VI shall apply.
- 1.7 Subject to the limitations of paragraphs 1.4 to 1.6 of this Article, the terms of each applicable collective bargaining agreement as determined in accordance with paragraph 1.6 are incorporated herein by reference, and the terms of this PLA shall be deemed incorporated into such other applicable collective bargaining agreements only for purposes of their application to the Project.

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- 1.8 To the extent necessary to comply with the requirements of any fringe benefit fund to which the Prime Contractor or Subcontractor is required to contribute under the terms of an applicable collective bargaining agreement pursuant to the preceding paragraph, the Prime Contractor or Subcontractor shall execute all "Participation Agreements" as may be reasonably required by the Union to accomplish such purpose; provided, however, that such Participation Agreements shall, when applicable to the Prime Contractor or Subcontractor solely as a result of this PLA, be amended as reasonably necessary to reflect such fact. Upon written notice in the form of a lien of a Contractor's or Subcontractor's delinquency from any applicable fringe benefit fund, IDOT will withhold from the Contractor's periodic pay request an amount sufficient to extinguish any delinquency obligation of the Contractor or Subcontractor arising out of the Project.
- 1.9 In the event that the applicable collective bargaining agreement between a Prime Contractor and the Union or between the Subcontractor and the Union expires prior to the completion of this Project, the expired applicable contract's terms will be maintained until a new applicable collective bargaining agreement is ratified. The wages and fringe benefits included in any new applicable collective bargaining agreement will apply on and after the effective date of the newly negotiated collective bargaining agreement, except to the extent wage and fringe benefit retroactivity is specifically agreed upon by the relevant bargaining parties.

ARTICLE II – APPLICABILITY, RECOGNITION, AND COMMITMENTS

- 2.1 The term Construction Work as used herein shall include all "construction, demolition, rehabilitation, renovation, or repair" work performed by a "laborer or mechanic" at the "site of the work" for the purpose of "building" the specific structures and improvements that constitute the Project. Terms appearing within quotation marks in the preceding sentence shall have the meaning ascribed to them pursuant to 29 CFR Part 5 and Illinois labor laws.
- 2.2 By executing the Letters of Assent, Prime Contractor and each of its Subcontractors recognizes the Unions signatory to this PLA as the sole and exclusive bargaining representatives for their craft employees employed on the jobsite for this Project. Unions who are signatory to this PLA will have recognition on the Project for their craft.
- 2.3 The Prime Contractor and each of its Subcontractors retains and shall be permitted to exercise full and exclusive authority and responsibility for the management of its operations, except as expressly limited by the terms of this PLA or by the terms and conditions of the applicable collective bargaining agreement.
- 2.4 Except to the extent contrary to an express provision of the relevant collective bargaining agreement, equipment or materials used in the Project may be pre-assembled or pre-fabricated, and there shall be no refusal by the Union to handle, transport, install, or connect such equipment or materials. Equipment or materials delivered to the job-site will be unloaded and handled promptly without regard to potential jurisdictional disputes; any such disputes shall be handled in accordance with the provisions of this PLA.

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- 2.5 The parties are mutually committed to promoting a safe working environment for all personnel at the job-site. It shall be the responsibility of each employer to which this PLA applies to provide and maintain safe working conditions for its employees, and to comply with all applicable federal, state, and local health and safety laws and regulations.
- 2.6 The use or furnishing of alcohol or drugs and the conduct of any other illegal activity at the job-site is strictly prohibited. The parties shall take every practical measure consistent with the terms of applicable collective bargaining agreements to ensure that the job-site is free of alcohol and drugs.
- 2.7 All parties to this PLA agree that they will not discriminate against any employee based on race, creed, religion, color, national origin, union activity, age, gender or sexual orientation and shall comply with all applicable federal, state, and local laws.
- 2.8 In accordance with the Act and to promote diversity in employment, IDOT will establish, in cooperation with the other parties, the apprenticeship hours which are to be performed by minorities and females on the Project. IDOT shall consider the total hours to be performed by these underrepresented groups, as a percentage of the workforce, and create aspirational goals for each Project, based on the level of underutilization for the service area of the Project (together "Project Employment Objectives"). IDOT shall provide a quarterly report regarding the racial and gender composition of the workforce on the Project.

Persons currently lacking qualifications to enter apprenticeship programs will have the opportunity to obtain skills through basic training programs as have been established by the Department. The parties will endeavor to support such training programs to allow participants to obtain the requisite qualifications for the Project Employment Objectives.

The parties agree that all Contractors and Subcontractors working on the Project shall be encouraged to utilize the maximum number of apprentices as permitted under the terms of the applicable collective bargaining agreements to realize the Project Employment Objectives.

The Unions shall assist the Contractor and each Subcontractor in efforts to satisfy Project Employment Objectives. A Contractor or Subcontractor may request from a Union specific categories of workers necessary to satisfy Project Employment Objectives. The application of this section shall be consistent with all local Union collective bargaining agreements, and the hiring hall rules and regulations established for the hiring of personnel, as well as the apprenticeship standards set forth by each individual Union.

- 2.9 The parties hereto agree that engineering/architectural/surveying consultants' materials testing employees are subject to the terms of this PLA for Construction Work performed for a Contractor or Subcontractor on this Project. These workers shall be fully expected to objectively and responsibly perform their duties and obligations owed to the Department without regard to the potential union affiliation of such employees or of other employees on the Project.

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- 2.10 This Agreement shall not apply to IDOT employees or employees of any other governmental entity.

ARTICLE III - ADMINISTRATION OF AGREEMENT

- 3.1 In order to assure that all parties have a clear understanding of the PLA, and to promote harmony, at the request of the Unions a post-award pre-job conference will be held among the Prime Contractor, all Subcontractors and Union representatives prior to the start of any Construction Work on the Project. No later than the conclusion of such pre-job conference, the parties shall, among other matters, provide to one another contact information for their respective representatives (including name, address, phone number, facsimile number, e-mail). Nothing herein shall be construed to limit the right of the Department to discuss or explain the purpose and intent of this PLA with prospective bidders or other interested parties prior to or following its award of the job.
- 3.2 Representatives of the Prime Contractor and the Unions shall meet as often as reasonably necessary following award until completion of the Project to assure the effective implementation of this PLA.
- 3.3 Any notice contemplated under Article VI and VII of this Agreement to a signatory labor organization shall be made in writing to the Local Union with copies to the local union's International Representative.

ARTICLE IV - HOURS OF WORK AND GENERAL CONDITIONS

- 4.1 The standard work day and work week for Construction Work on the Project shall be consistent with the respective collective bargaining agreements. In the event Project site or other job conditions dictate a change in the established starting time and/or a staggered lunch period for portions of the Project or for specific crafts, the Prime Contractor, relevant Subcontractors and business managers of the specific crafts involved shall confer and mutually agree to such changes as appropriate. If proposed work schedule changes cannot be mutually agreed upon between the parties, the hours fixed at the time of the pre-job meeting shall prevail.
- 4.2 Shift work may be established and directed by the Prime Contractor or relevant Subcontractor as reasonably necessary or appropriate to fulfill the terms of its contract with the Department. If used, shift hours, rates and conditions shall be as provided in the applicable collective bargaining agreement.
- 4.3 The parties agree that chronic and/or unexcused absenteeism is undesirable and must be controlled in accordance with procedures established by the applicable collective bargaining agreement. Any employee disciplined for absenteeism in accordance with such procedures shall be suspended from all work on the Project for not less than the maximum period permitted under the applicable collective bargaining agreement.
- 4.4 Except as may be otherwise expressly provided by the applicable collective bargaining agreement, employment begins and ends at the Project site; employees shall be at their place of work at the starting time; and employees shall remain at their place of work until quitting time.

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- 4.5 Except as may be otherwise expressly provided by the applicable collective bargaining agreement, there shall be no limit on production by workmen, no restrictions on the full use of tools or equipment, and no restrictions on efficient use of manpower or techniques of construction other than as may be required by safety regulations.
- 4.6 The parties recognize that specialized or unusual equipment may be installed on the Project. In such cases, the Union recognizes the right of the Prime Contractor or Subcontractor to involve the equipment supplier or vendor's personnel in supervising the setting up of the equipment, making modifications and final alignment, and performing similar activities that may be reasonably necessary prior to and during the start-up procedure in order to protect factory warranties. The Prime Contractor or Subcontractor shall notify the Union representatives in advance of any work at the job-site by such vendor personnel in order to promote a harmonious relationship between the equipment vendor's personnel and other Project employees.
- 4.7 For the purpose of promoting full and effective implementation of this PLA, authorized Union representatives shall have access to the Project job-site during scheduled work hours. Such access shall be conditioned upon adherence to all reasonable visitor and security rules of general applicability that may be established for the Project site at the pre-job conference or from time to time thereafter.

ARTICLE V – GRIEVANCE PROCEDURES FOR DISPUTES ARISING UNDER A PARTICULAR COLLECTIVE BARGAINING AGREEMENT

- 5.1 In the event a dispute arises under a particular collective bargaining agreement specifically not including jurisdictional disputes referenced in Article VI below, said dispute shall be resolved by the Grievance/Arbitration procedure of the applicable collective bargaining agreement. The resulting determination from this process shall be final and binding on all parties bound to its process.
- 5.2 Employers covered under this Agreement shall have the right to discharge or discipline any employee who violates the provisions of this Agreement. Such discharge or discipline by a contractor or subcontractor shall be subject to Grievance/Arbitration procedure of the applicable collective bargaining agreement only as to the fact of such violation of this agreement. If such fact is established, the penalty imposed shall not be disturbed. Work at the Project site shall continue without disruption or hindrance of any kind as a result of a Grievance/Arbitration procedure under this Article.
- 5.3 In the event there is a deadlock in the foregoing procedure, the parties agree that the matter shall be submitted to arbitration for the selection and decision of an Arbitrator governed under paragraph 6.8.

ARTICLE VI –DISPUTES: GENERAL PRINCIPLES

- 6.1 This Agreement is entered into to prevent strikes, lost time, lockouts and to facilitate the peaceful adjustment of jurisdictional disputes in the building and construction industry and to prevent waste and unnecessary avoidable delays and expense, and for the further purpose of at all times securing for the employer sufficient skilled workers.

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- 6.2 A panel of Permanent Arbitrators are attached as addendum (A) to this agreement. By mutual agreement between IDOT and the Unions, the parties can open this section of the agreement as needed to make changes to the list of permanent arbitrators.
- 6.3 The PLA Jurisdictional Dispute Resolution Process ("Process") sets forth the procedures below to resolve jurisdictional disputes between and among Contractors, Subcontractors, and Unions engaged in the building and construction industry. Further, the Process will be followed for any grievance or dispute arising out of the interpretation or application of this PLA by the parties except for the prohibition on attorneys contained in 6.11. All decisions made through the Process are final and binding upon all parties.

DISPUTE PROCESS

- 6.4 Administrative functions under the Process shall be performed through the offices of the President and/or Secretary-Treasurer of the Illinois State Federation of Labor, or their designated representative, called the Administrator. In no event shall any officer, employee, agent, attorney, or other representative of the Illinois Federation of Labor, AFL-CIO be subject to any subpoena to appear or testify at any jurisdictional dispute hearing.
- 6.5 There shall be no abandonment of work during any case participating in this Process or in violation of the arbitration decision. All parties to this Process release the Illinois State Federation of Labor ("Federation") from any liability arising from its action or inaction and covenant not to sue the Federation, nor its officers, employees, agents or attorneys.
- 6.6 In the event of a dispute relating to trade or work jurisdiction, all parties, including the employers, Contractors or Subcontractors, agree that a final and binding resolution of the dispute shall be resolved as follows:
- (a) Representatives of the affected trades and the Contractor or Subcontractor shall meet on the job site within two (2) business days after receiving written notice in an effort to resolve the dispute. (In the event there is a dispute between local unions affiliated with the same International Union, the decision of the General President, or his/her designee, as the internal jurisdictional authority of that International Union, shall constitute a final and binding decision and determination as to the jurisdiction of work.)
 - (b) If no settlement is achieved subsequent to the preceding Paragraph, the matter shall be referred to the local area Building & Construction Trades Council, which shall meet with the affected trades within two (2) business days subsequent to receiving written notice. In the event the parties do not wish to avail themselves of the local Building & Construction Trades Council, the parties may elect to invoke the services of their respective International Representatives with no extension of the time limitations. An agreement reached at this Step shall be final and binding upon all parties.

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(c) If no settlement agreement is reached during the proceedings contemplated by Paragraphs "a" or "b" above, the matter shall be immediately referred to the Illinois Jurisdictional Dispute Process for final and binding resolution of said dispute. Said referral submission shall be in writing and served upon the Illinois State Federation of Labor, or the Administrator, pursuant to paragraph 6.4 of this agreement. The Administrator shall, within three (3) days, provide for the selection of an available Arbitrator to hear said dispute within this time period. Upon good cause shown and determined by the Administrator, an additional three (3) day extension for said hearing shall be granted at the sole discretion of the Administrator. Only upon mutual agreement of all parties may the Administrator extend the hearing for a period in excess of the time frames contemplated under this Paragraph. Business days are defined as Monday through Friday, excluding contract holidays.

6.7 The primary concern of the Process shall be the adjustment of jurisdictional disputes arising out of the Project. A sufficient number of Arbitrators shall be selected from list of approved Arbitrators as referenced Sec. 6.2 and shall be assigned per Sec. 6.8. Decisions shall be only for the Project and shall become effective immediately upon issuance and complied with by all parties. The authority of the Arbitrator shall be restricted and limited specifically to the terms and provisions of Article VI and generally to this Agreement as a whole.

6.8 The Arbitrator chosen shall be randomly selected based on the list of Arbitrators in Sec. 6.2 and geographical location of the jurisdictional dispute and upon his/her availability, and ability to conduct a Hearing within two (2) business days of said notice. The Arbitrator may issue a "bench" decision immediately following the Hearing or he/she may elect to only issue a written decision, said decision must be issued within two (2) business days subsequent to the completion of the Hearing. Copies of all notices, pleadings, supporting memoranda, decisions, etc. shall be provided to all disputing parties and the Illinois State Federation of Labor.

Any written decision shall be in accordance with this Process and shall be final and binding upon all parties to the dispute and may be a "short form" decision. Fees and costs of the arbitrator shall be divided evenly between the contesting parties except that any party wishing a full opinion and decision beyond the short form decision shall bear the reasonable fees and costs of such full opinion. The decision of the Arbitrator shall be final and binding upon the parties hereto, their members, and affiliates.

In cases of jurisdictional disputes or other disputes between a signatory labor organization and another labor organization, both of which is an affiliate or member of the same International Union, the matter or dispute shall be settled in the manner set forth by their International Constitution and/or as determined by the International Union's General President whose decision shall be final and binding upon all parties. In no event shall there be an abandonment of work.

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- 6.9 In rendering a decision, the Arbitrator shall determine:
- (a) First, whether a previous agreement of record or applicable agreement, including a disclaimer agreement, between National or International Unions to the dispute or agreements between local unions involved in the dispute, governs;
 - (b) Only if the Arbitrator finds that the dispute is not covered by an appropriate or applicable agreement of record or agreement between the crafts to the dispute, he shall then consider the established trade practice in the industry and prevailing practice in the locality. Where there is a previous decision of record governing the case, the Arbitrator shall give equal weight to such decision of record, unless the prevailing practice in the locality in the past ten years favors one craft. In that case, the Arbitrator shall base his decision on the prevailing practice in the locality. Except, that if the Arbitrator finds that a craft has improperly obtained the prevailing practice in the locality through raiding, the undercutting of wages or by the use of vertical agreements, the Arbitrator shall rely on the decision of record and established trade practice in the industry rather than the prevailing practice in the locality; and,
 - (c) Only if none of the above criteria is found to exist, the Arbitrator shall then consider that because efficiency, cost or continuity and good management are essential to the well being of the industry, the interests of the consumer or the past practices of the employer shall not be ignored.
- 6.10 The Arbitrator shall set forth the basis for his/her decision and shall explain his/her findings regarding the applicability of the above criteria. If lower ranked criteria are relied upon, the Arbitrator shall explain why the higher-ranked criteria were not deemed applicable. The Arbitrator's decision shall only apply to the Project. Agreements of Record, for other PLA projects, are applicable only to those parties signatory to such agreements. Decisions of Record are those that were either attested to by the former Impartial Jurisdictional Disputes Board or adopted by the National Arbitration Panel.
- 6.11 All interested parties, as determined by the Arbitrator, shall be entitled to make presentations to the Arbitrator. Any interested labor organization affiliated to the PLA Committee and party present at the Hearing, whether making a presentation or not, by such presence shall be deemed to accept the jurisdiction of the Arbitrator and to agree to be bound by its decision. In addition to the representative of the local labor organization, a representative of the labor organization's International Union may appear on behalf of the parties. Each party is responsible for arranging for its witnesses. In the event an Arbitrator's subpoena is required, the party requiring said subpoena shall prepare the subpoena for the Arbitrator to execute. Service of the subpoena upon any witness shall be the responsibility of the issuing party.

Attorneys shall not be permitted to attend or participate in any portion of a Hearing.

The parties are encouraged to determine, prior to Hearing, documentary evidence which may be presented to the Arbitrator on a joint basis.

Revised 1/9/13

- 6.12 The Order of Presentation in all Hearings before an Arbitrator shall be
- I. Identification and Stipulation of the Parties
 - II. Unions(s) claiming the disputed work presents its case
 - III. Union(s) assigned the disputed work presents its case
 - IV. Employer assigning the disputed work presents its case
 - V. Evidence from other interested parties (i.e., general contractor, project manager, owner)
 - VI. Rebuttal by union(s) claiming the disputed work
 - VII. Additional submissions permitted and requested by Arbitrator
 - VIII. Closing arguments by the parties
- 6.13 All parties bound to the provisions of this Process hereby release the Illinois State Federation of Labor and IDOT, their respective officers, agents, employees or designated representatives, specifically including any Arbitrator participating in said Process, from any and all liability or claim, of whatsoever nature, and specifically incorporating the protections provided in the Illinois Arbitration Act, as amended from time to time.
- 6.14 The Process, as an arbitration panel, nor its Administrator, shall have any authority to undertake any action to enforce its decision(s). Rather, it shall be the responsibility of the prevailing party to seek appropriate enforcement of a decision, including findings, orders or awards of the Arbitrator or Administrator determining non-compliance with a prior award or decision.
- 6.15 If at any time there is a question as to the jurisdiction of the Illinois Jurisdictional Dispute Resolution Process, the primary responsibility for any determination of the arbitrability of a dispute and the jurisdiction of the Arbitrator shall be borne by the party requesting the Arbitrator to hear the underlying jurisdictional dispute. The affected party or parties may proceed before the Arbitrator even in the absence or one or more stipulated parties with the issue of jurisdiction as an additional item to be decided by the Arbitrator. The Administrator may participate in proceedings seeking a declaration or determination that the underlying dispute is subject to the jurisdiction and process of the Illinois Jurisdictional Dispute Resolution Process. In any such proceedings, the non-prevailing party and/or the party challenging the jurisdiction of the Illinois Jurisdictional Dispute Resolution Process shall bear all the costs, expenses and attorneys' fees incurred by the Illinois Jurisdictional Dispute Resolution Process and/or its Administrator in establishing its jurisdiction.

ARTICLE VII - WORK STOPPAGES AND LOCKOUTS

- 7.1 During the term of this PLA, no Union or any of its members, officers, stewards, employees, agents or representatives shall instigate, support, sanction, maintain, or participate in any strike, picketing, walkout, work stoppage, slow down or other activity that interferes with the routine and timely prosecution of work at the Project site or at any other contractor's or supplier's facility that is necessary to performance of work at the Project site. Hand billing at the Project site during the designated lunch period and before commencement or following conclusion of the established standard workday shall not, in itself, be deemed an activity that interferes with the routine and timely prosecution of work on the Project.

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- 7.2 Should any activity prohibited by paragraph 7.1 of this Article occur, the Union shall undertake all steps reasonably necessary to promptly end such prohibited activities.
- 7.2.A No Union complying with its obligations under this Article shall be liable for acts of employees for which it has no responsibility or for the unauthorized acts of employees it represents. Any employee who participates or encourages any activity prohibited by paragraph 7.1 shall be immediately suspended from all work on the Project for a period equal to the greater of (a) 60 days; or (b) the maximum disciplinary period allowed under the applicable collective bargaining agreement for engaging in comparable unauthorized or prohibited activity.
- 7.2.B Neither the PLA Committee nor its affiliates shall be liable for acts of employees for which it has no responsibility. The principal officer or officers of the PLA Committee will immediately instruct, order and use the best efforts of his office to cause the affiliated union or unions to cease any violations of this Article. The PLA Committee in its compliance with this obligation shall not be liable for acts of its affiliates. The principal officer or officers of any involved affiliate will immediately instruct, order or use the best effort of his office to cause the employees the union represents to cease any violations of this Article. A union complying with this obligation shall not be liable for unauthorized acts of employees it represents. The failure of the Contractor to exercise its rights in any instance shall not be deemed a waiver of its rights in any other instance.
- During the term of this PLA, the Prime Contractor and its Subcontractors shall not engage in any lockout at the Project site of employees covered by this Agreement.
- 7.3 Upon notification of violations of this Article, the principal officer or officers of the local area Building and Construction Trades Council, and the Illinois AFL-CIO Statewide Project Labor Agreement Committee as appropriate, will immediately instruct, order and use their best efforts to cause the affiliated union or unions to cease any violations of this Article. A Trades Council and the Committee otherwise in compliance with the obligations under this paragraph shall not be liable for unauthorized acts of its affiliates.
- 7.4 In the event that activities in violation of this Article are not immediately halted through the efforts of the parties, any aggrieved party may invoke the special arbitration provisions set forth in paragraph 7.5 of this Article.
- 7.5 Upon written notice to the other involved parties by the most expeditious means available, any aggrieved party may institute the following special arbitration procedure when a breach of this Article is alleged:
- 7.5.A The party invoking this procedure shall notify the individual designated as the Permanent Arbitrator pursuant to paragraph 6.8 of the nature of the alleged violation; such notice shall be by the most expeditious means possible. The initiating party may also furnish such additional factual information as may be reasonably necessary for the Permanent Arbitrator to understand the relevant circumstances. Copies of any written materials provided to the arbitrator shall also be contemporaneously provided by the most expeditious means possible to the party alleged to be in violation and to all other involved parties.

- 7.5.B Upon receipt of said notice the Permanent Arbitrator shall set and hold a hearing within twenty-four (24) hours if it is contended the violation is ongoing, but not before twenty-four (24) hours after the written notice to all parties involved as required above.
- 7.5.C The Permanent Arbitrator shall notify the parties by facsimile or any other effective written means, of the place and time chosen by the Permanent Arbitrator for this hearing. Said hearing shall be completed in one session. A failure of any party or parties to attend said hearing shall not delay the hearing of evidence or issuance of an Award by the Permanent Arbitrator.
- 7.5.D The sole issue at the hearing shall be whether a violation of this Article has, in fact, occurred. An Award shall be issued in writing within three (3) hours after the close of the hearing, and may be issued without a written opinion. If any party desires a written opinion, one shall be issued within fifteen (15) days, but its issuance shall not delay compliance with, or enforcement of, the Award. The Permanent Arbitrator may order cessation of the violation of this Article, and such Award shall be served on all parties by hand or registered mail upon issuance.
- 7.5.E Such Award may be enforced by any court of competent jurisdiction upon the filing of the Award and such other relevant documents as may be required. Facsimile or other hardcopy written notice of the filing of such enforcement proceedings shall be given to the other relevant parties. In a proceeding to obtain a temporary order enforcing the Permanent Arbitrator's Award as issued under this Article, all parties waive the right to a hearing and agree that such proceedings may be ex parte. Such agreement does not waive any party's right to participate in a hearing for a final order of enforcement. The Court's order or orders enforcing the Permanent Arbitrator's Award shall be served on all parties by hand or by delivery to their last known address or by registered mail.
- 7.6 Individuals found to have violated the provisions of this Article are subject to immediate termination. In addition, IDOT reserves the right to terminate this PLA as to any party found to have violated the provisions of this Article.
- 7.7 Any rights created by statute or law governing arbitration proceedings inconsistent with the above procedure or which interfere with compliance therewith are hereby waived by parties to whom they accrue.
- 7.8 The fees and expenses of the Permanent Arbitrator shall be borne by the party or parties found in violation, or in the event no violation is found, such fees and expenses shall be borne by the moving party.

ARTICLE VIII – TERMS OF AGREEMENT

- 8.1 If any Article or provision of this Agreement shall be declared invalid, inoperative or unenforceable by operation of law or by any of the above mentioned tribunals of competent jurisdiction, the remainder of this Agreement or the application of such Article or provision to persons or circumstances other than those as to which it has been held invalid, inoperative or unenforceable shall not be affected thereby.

Revised 1/9/13

- 8.2 This Agreement shall be in full force as of and from the date of the Notice of Award until the Project contract is closed.
- 8.3 This PLA may not be changed or modified except by the subsequent written agreement of the parties. All parties represent that they have the full legal authority to enter into this PLA. This PLA may be executed by the parties in one or more counterparts.
- 8.4 Any liability arising out of this PLA shall be several and not joint. IDOT shall not be liable to any person or other party for any violation of this PLA by any other party, and no Contractor or Union shall be liable for any violation of this PLA by any other Contractor or Union.
- 8.5 The failure or refusal of a party to exercise its rights hereunder in one or more instances shall not be deemed a waiver of any such rights in respect of a separate instance of the same or similar nature.

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Execution Page

Illinois Department of Transportation

Omer Osman, Director of Highways

Matthew Hughes, Director Finance & Administration

Michael A. Forti, Chief Counsel

Ann L. Schneider, Secretary

(Date)

Illinois AFL-CIO Statewide Project Labor Agreement Committee, representing the Unions listed below:

(Date)

List Unions:

Revised 1/9/13

****RETURN WITH BID****

Exhibit A - Contractor Letter of Assent

(Date)

To All Parties:

In accordance with the terms and conditions of the contract for Construction Work on [Contract No.], this Letter of Assent hereby confirms that the undersigned Prime Contractor or Subcontractor agrees to be bound by the terms and conditions of the Project Labor Agreement established and entered into by the Illinois Department of Transportation in connection with said Project.

It is the understanding and intent of the undersigned party that this Project Labor Agreement shall pertain only to the identified Project. In the event it is necessary for the undersigned party to become signatory to a collective bargaining agreement to which it is not otherwise a party in order that it may lawfully make certain required contributions to applicable fringe benefit funds, the undersigned party hereby expressly conditions its acceptance of and limits its participation in such collective bargaining agreement to its work on the Project.

(Authorized Company Officer)

(Company)

****RETURN WITH BID****

Added 1/9/13

COMBINATION CURB AND GUTTER REMOVAL (SPECIAL)

Description. This work shall consist of removing and replacing the curb and gutter at the locations shown on the plans or as directed by the Engineer. This work shall be in accordance with the applicable portions of Sections 406, 440 and 606 of the Standard Specifications and the detail included in the plans.

Method of Measurement. Combination curb and gutter removal will be measured in place along the flow line of the existing concrete curb at time of removal. The in place measurement shall be the payment quantity for the construction, removal and legal disposal of the combination curb and gutter and adjacent pavement.

Basis of Payment. This work will be paid for at the contract unit price per foot for COMBINATION CURB AND GUTTER REMOVAL (SPECIAL).

THERMOPLASTIC PAVEMENT MARKING – LINE 5”

Description: This item applies when thermoplastic pavement marking 10 inch lines are called for on the pavement marking and/or maintenance of traffic plans. Pavement striping shall be in accordance with all applicable portions of Section 780 of the Standard Specifications.

Add the following sentence to Article 780.12(b):

10” thermoplastic lines will be measured for payment in place as two (2) separate 5” thermoplastic lines.

ELECTRIC UTILITY SERVICE CONNECTION (CITY OF NAPERVILLE AND COMED)

Description. This item shall consist of payment for work performed by Department of Public Utilities – Electric (DPU-E) of said City of Naperville and ComEd, in providing new electric service(s) as indicated. THIS MAY INVOLVE WORK AT MORE THAN ONE ELECTRIC SERVICE. For summary of the Electrical Service Drop Locations see the schedule contained elsewhere herein.

CONSTRUCTION REQUIREMENTS

General. It shall be the Contractor's responsibility to contact DPU-E and ComEd. The Contractor shall coordinate his work fully with both the DPU-E and ComEd as to the work required and the timing of the installation. No additional compensation will be granted under this or any other item for extra work caused by failure to meet this requirement. **Please contact DPU-E and ComEd, to begin the service connection process. The Call Center Representatives will create a work order for the service connection. The representative will ask the requestor for information specific to the request. The representative will assign the request based upon the location of project.**

Added 1/9/13

The Contractor should make particular note of the need to make arrangements with DPU-E and ComEd for service. In the event of delay by DPU-E and/or ComEd, no extension of time will be considered applicable for the delay unless the Contractor can produce written evidence of a request for electric service within 30 days of execution.

Method Of Payment. The Contractor will be reimbursed for the exact amount of money as billed by DPU-E and ComEd for its services. Work provided by the Contractor for electric service will be paid separately as described under ELECTRIC SERVICE INSTALLATION. No extra compensation shall be paid to the Contractor for any incidental materials and labor required to fulfill the requirements as shown on the plans and specified herein.

For bidding purposes, this item shall be estimated as \$76,350.00 for the Electrical Utility Service Connections for Traffic Signals and \$15,000.00 for the Electrical Utility Service Connection for Lighting for a total of **\$91,350.00**.

Basis Of Payment. This work will be paid for at the contract lump sum price for **ELECTRIC UTILITY SERVICE CONNECTION** which shall be reimbursement in full for electric utility service charges.

REBUILD EXISTING HANDHOLE, SPECIAL

This item shall consist of adjusting a handhole down and plating it for temporary pavement installation; upon removal of the temporary pavement, the existing handhole shall be rebuilt and brought to the final grade at a location shown on the plans or as directed by the Engineer.

This work will include removing the handhole frame and cover and the walls of the handhole to a depth to the bottom of the temporary pavement elevation. A steel plate 36" x 36" x 3/4" (ASTM A36) shall be placed over the opening and bolted to the remaining portion of the existing handhole with 4-3/4" diameter epoxy anchor bolts with nuts and washers located at the four corners with minimum embedment of 4 inches.

Temporary pavement will be placed over the steel plate during the temporary traffic signal installation. Upon removal of the temporary pavement and replacement, the existing handhole shall be rebuilt to the final grade.

Following the removal of the temporary pavement and steel plate, four (4) holes, four (4) inches in depth and, one half (1/2) inch in diameter, shall be drilled into the remaining concrete; one hole centered on each of the four handhole walls. Four (4) #3 steel dowels, eight (8) inches in length, shall be furnished and shall be installed in the drilled holes with a masonry epoxy.

All concrete debris shall be removed from the right-of-way to a location approved by the Engineer.

Added 1/9/13

The area adjacent to each side of the handhole shall be excavated to allow forming. All steel hooks, handhole frame, cover, and concrete shall be provided to construct a rebuilt handhole according to applicable portions of the current District One Traffic Signal Specifications. (The existing frame and cover shall be replaced if it was damaged during removal or as determined by the Engineer.)

Basis of Payment. This work shall be paid for at the contract unit price each for REBUILD EXISTING HANDHOLE, SPECIAL, which contract unit price shall be payment in full for all labor, materials, and equipment necessary to complete the work described above and as indicated.

SPEED INDICATOR SIGN

Description: This work shall consist of furnishing, placing, and maintaining speed indicator measurement and display units. The units shall be trailer mounted. These units will be deployed as shown on the plans or as directed by the Engineer. Construction speed limit signs will still be required at the locations shown on the Standards or at locations as indicated on the plans.

The speed measurement shall be by radar and provide a detection distance of one quarter (1/4) to one half (1/2) mile.

The speed indicator display shall face approaching traffic and shall have a sign legend of "Your Speed" above the speed display, and "MPH" below the speed display. The digital display between the fixed messages shall show two digits (00 to 99). The minimum height of the numerals shall be twelve (12) inches, and the nominal legibility distance shall be at least 750 feet. Whenever the signs are in use, they shall be considered as traffic control devices(s). When they are not required for use, they shall be considered as equipment.

The speed indicator measurement and display functions shall be equipped with a power supply capable of providing 24 hours of uninterrupted service.

The Contractor is required to provide all preventive maintenance effort that is necessary to achieve uninterrupted service. If service is interrupted for any cause and not restored within 24 hours, the engineer shall cause such work to be performed as may be necessary to provide this service. The cost of such work shall be borne by the Contractor or deducted from current or future compensation due the Contractor.

Basis of Payment: The furnishing, placing, and maintenance of speed indicator measurement and display units will be measured per calendar day of service provided. A partial day shall be counted as one calendar day. This work will be paid for at the contract unit price per calendar day for SPEED INDICATOR SIGN.

Added 1/9/13

OPTIMIZE TRAFFIC SIGNAL SYSTEM SPECIAL

Effective: November 9, 2012

This work shall consist of optimizing a partial closed loop traffic signal system for the opening and operation of a DDI Interchange as contained in this contract.

This work shall be in accordance with all applicable portions of the IDOT District 1 Traffic Signal Specifications, as contained in this contract, for Optimize Traffic Signal System except as modified herein.

This contract overlaps with other concurrent and future contracts as listed below. The Contractor and SCAT Consultant shall cooperate with the other Contractors and SCAT Consultants in the phasing and performance of his work so as not to delay, interrupt or hinder the progress or completion of work being performed by the other contractors.

1. Contract 60P41 – Pump Station 47 Replacement.
2. Contract 60P42 – Retaining Walls
3. Contract 60R30 – Roadway Reconstruction, ILL. Rte. 59 from north of North Aurora Road to New York Street.
4. Contract 60R31 – Roadway Reconstruction, ILL. Rte. 59 from north of North Aurora Road to north of Diehl Road.

This item shall include the following intersections in the partial closed loop traffic signal system optimization of the traffic signal system:

1. ILL. Rte. 59 @ Ferry Road.
2. ILL. Rte. 59 @ I-88 Diverging Diamond Interchange (Including both the I-88 North Ramps and the I-88 South Ramps).
3. ILL. Rte. 59 @ Diehl Road (Completion of roadway work and proposed signals at this intersection is unknown at this time).

The following intersections will need signal timing and traffic signal system adjustments made when the ILL. Rte. 59 @ I-88 Diverging Diamond Interchange is opened to traffic. Cooperation of the Contractors and SCAT Consultants will be required for this work. This work will be performed by the Contractors and SCAT Consultants under each contract as listed below.

1. Contract 60R30 – ILL. Rte. 59 @ North Aurora Road Intersection.
2. Contract 60R31 – ILL. Rte. 59 @ Brookdale Road / Bruce Lane Intersection

Added 1/9/13

Cooperation of the Contractor and SCAT Consultant will be required under Contract 60R31, as the master controller is located at ILL. Rte. 59 @ Diehl Road. The SCAT Consultant under Contract 60I31 will be revising the intersection timing at this intersection and also downloading Traffic Signal System Programs into the master controller at this intersection. This work is required in order for the ILL. Rte. 59 @ I-88 Diverging Diamond Interchange to open to traffic and to be Optimized. The SCAT Consultant under Contract 60I31 shall only be responsible for signal timings and Traffic Signal System Programs at this intersection for when the Diverging Diamond Interchange opens to traffic and for the completion of Contract 60I31.

The SCAT Consultant shall contact the Traffic Signal Engineer at (847) 705-4424 before starting work on this item. Synchro Analysis and Vissim is available for the consultant to use in preparing initial Traffic Signal System Programs before the Diverging Diamond Interchange opens to traffic. Traffic Signal System Programs shall be prepared and be ready to download into the master controller before the Diverging Diamond Interchange opens to traffic.

This item will included making adjustments to the traffic signal timings and Traffic Signal System Programs during construction and completion of this contract, as there will be lane closures and construction still going on when the Diverging Diamond Interchange opens to traffic.

After all construction is completed under Contract 60I31 and all lanes are opened to traffic, the Contractor and SCAT Consultant shall follow and deliver all items as outlined under the requirements for Optimize Traffic Signal System as contained in the IDOT District 1 Traffic Signal Specifications.

Basis of Payment.

The work shall be paid for at the contract unit each for OPTIMIZE TRAFFIC SIGNAL SYSTEM SPECIAL, which price shall be payment in full for performing all work described herein for the partial traffic signal system. Following the completion of traffic counts, 25 percent of the bid price will be paid. Following the completion of the final Synchro analysis, 25 percent of the bid price will be paid. Following the setup and fine tuning of the timings, the speed-delay study, and the TRP programming, 25 percent of the bid price will be paid. The remaining 25 percent will be paid when the system is working to the satisfaction of the engineer and the report and CD have been submitted.

Added 1/9/13

GROUND TIRE RUBBER (GTR) MODIFIED ASPHALT BINDER (D-1)

Effective: June 26, 2006

Revised: January 1, 2013

Add the following to the end of article 1032.05 of the Standard Specifications:

“(c) Ground Tire Rubber (GTR) Modified Asphalt Binder. A quantity of 10.0 to 14.0 percent GTR (Note 1) shall be blended by dry unit weight with a PG 64-28 to make a GTR 70-28 or a PG 58-28 to make a GTR 64-28. The base PG 64-28 and PG 58-28 asphalt binders shall meet the requirements of Article 1032.05(a). Compatible polymers may be added during production. The GTR modified asphalt binder shall meet the requirements of the following table.

Test	Asphalt Grade GTR 70-28	Asphalt Grade GTR 64-28
Flash Point (C.O.C.), AASHTO T 48, °F (°C), min.	450 (232)	450 (232)
Rotational Viscosity, AASHTO T 316 @ 275 °F (135 °C), Poises, Pa·s, max.	30 (3)	30 (3)
Softening Point, AASHTO T 53, °F (°C), min.	135 (57)	130 (54)
Elastic Recovery, ASTM D 6084, Procedure A (sieve waived) @ 77 °F, (25 °C), aged, ss, 100 mm elongation, 5 cm/min., cut immediately, %, min.	65	65

Note 1. GTR shall be produced from processing automobile and/or light truck tires by the ambient grinding method. GTR shall not exceed 1/16 in. (2 mm) in any dimension and shall contain no free metal particles or other materials. A mineral powder (such as talc) meeting the requirements of AASHTO M 17 may be added, up to a maximum of four percent by weight of GTR to reduce sticking and caking of the GTR particles. When tested in accordance with Illinois modified AASHTO T 27, a 50 g sample of the GTR shall conform to the following gradation requirements:

Sieve Size	Percent Passing
No. 16 (1.18 mm)	100
No. 30 (600 μm)	95 ± 5
No. 50 (300 μm)	> 20

Added 1/9/13

Add the following to the end of Note 1. of article 1030.03 of the Standard Specifications:

“A dedicated storage tank for the Ground Tire Rubber (GTR) modified asphalt binder shall be provided. This tank must be capable of providing continuous mechanical mixing throughout by continuous agitation and recirculation of the asphalt binder to provide a uniform mixture. The tank shall be heated and capable of maintaining the temperature of the asphalt binder at 300 °F to 350 °F (149 °C to 177 °C). The asphalt binder metering systems of dryer drum plants shall be calibrated with the actual GTR modified asphalt binder material with an accuracy of ± 0.40 percent.”

Revise 1030.02(c) of the Standard Specifications to read:

“(c) RAP Materials (Note 3)1031”

Add the following note to 1030.02 of the Standard Specifications:

Note 3. When using reclaimed asphalt pavement and/or reclaimed asphalt shingles, the maximum asphalt binder replacement percentage shall be according to the most recent special provision for recycled materials.

Added 1/9/13

HMA MIXTURE DESIGN REQUIREMENTS (D-1)

Effective: January 1, 2013.

1) Design Composition and Volumetric Requirements

Revise Article 1030.04(a)(1) of the Standard Specifications to read.

“(1)High ESAL Mixtures. The Job Mix Formula (JMF) shall fall within the following limits.

High ESAL, MIXTURE COMPOSITION (% PASSING) ^{1/}										
Sieve Size	IL-25.0 mm		IL-19.0 mm		IL-12.5 mm		IL-9.5 mm		IL-4.75 mm	
	min	max	min	max	min	max	min	max	min	max
1 1/2 in (37.5 mm)		100								
1 in. (25 mm)	90	100		100						
3/4 in. (19 mm)		90	82	100		100				
1/2 in. (12.5 mm)	45	75	50	85	90	100		100		100
3/8 in. (9.5 mm)						89	90	100		100
#4 (4.75 mm)	24	42 ^{2/}	24	50 ^{2/}	28	65	28	65	90	100
#8 (2.36 mm)	16	31	20	36	28	48 ^{3/}	32	52 ^{3/}	70	90
#16 (1.18 mm)	10	22	10	25	10	32	10	32	50	65
#50 (300 μm)	4	12	4	12	4	15	4	15	15	30
#100 (150 μm)	3	9	3	9	3	10	3	10	10	18
#200 (75 μm)	3	6	3	6	4	6	4	6	7	9
Ratio Dust/Asphalt Binder		1.0		1.0		1.0		1.0		1.0 ^{4/}

Added 1/9/13

- 1/ Based on percent of total aggregate weight.
- 2/ The mixture composition shall not exceed 40 percent passing the #4 (4.75 mm) sieve for binder courses with Ndesign ≥ 90.
- 3/ The mixture composition shall not exceed 44 percent passing the #8 (2.36 mm) sieve for surface courses with Ndesign ≥ 90.
- 4/ Additional minus No. 200 (0.075 mm) material required by the mix design shall be mineral filler, unless otherwise approved by the Engineer.”

Delete Article 1030.04(a)(4) of the Standard Specifications.

Revise Article 1030.04(b)(1) of the Standard Specifications to read.

“(1) High ESAL Mixtures. The target value for the air voids of the HMA shall be 4.0 percent and for IL-4.75 it shall be 3.5 percent at the design number of gyrations. The VMA and VFA of the HMA design shall be based on the nominal maximum size of the aggregate in the mix, and shall conform to the following requirements.

VOLUMETRIC REQUIREMENTS High ESAL						
Ndesign	Voids in the Mineral Aggregate (VMA), % minimum					Voids Filled with Asphalt Binder (VFA), %
	IL-25.0	IL-19.0	IL-12.5	IL-9.5	IL-4.75 ^{1/}	
50	12.0	13.0	14.0	15	18.5	65 – 78 ^{2/}
70					65 - 75	
90						
105						

- 1/ Maximum Draindown for IL-4.75 shall be 0.3%
- 2/ VFA for IL-4.75 shall be 72-85%”

Delete Article 1030.04(b)(4) of the Standard Specifications.

Added 1/9/13

Revise the Control Limits Table in Article 1030.05(d)(4) of the Standard Specifications to read.

"CONTROL LIMITS					
Parameter	High ESAL Low ESAL	High ESAL Low ESAL	All Other	IL-4.75	IL-4.75
	Individual Test	Moving Avg. of 4	Individual Test	Individual Test	Moving Avg. of 4
% Passing: ^{1/}					
1/2 in. (12.5 mm)	± 6 %	± 4 %	± 15 %		
No. 4 (4.75 mm)	± 5 %	± 4 %	± 10 %		
No. 8 (2.36 mm)	± 5 %	± 3 %			
No. 16 (1.18 mm)				± 4 %	± 3 %
No. 30 (600 μm)	± 4 %	± 2.5 %			
Total Dust Content No. 200 (75 μm)	± 1.5 %	± 1.0 %	± 2.5 %	± 1.5 %	± 1.0 %
Asphalt Binder Content	± 0.3 %	± 0.2 %	± 0.5 %	± 0.3 %	± 0.2 %
Voids	± 1.2 %	± 1.0 %	± 1.2 %	± 1.2 %	± 1.0 %
VMA	-0.7 % ^{2/}	-0.5 % ^{2/}		-0.7 % ^{2/}	-0.5 % ^{2/}

1/ Based on washed ignition oven

2/ Allowable limit below minimum design VMA requirement"

2) Design Verification and Production

Description. The following states the requirements for Hamburg Wheel and Tensile Strength testing for High ESAL, IL-4.75, and SMA hot mix asphalt (HMA) mixes during mix design verification and production.

When the options of Warm Mix Asphalt, Reclaimed Asphalt Shingles, or Reclaimed Asphalt Pavement are used by the Contractor, the Hamburg Wheel and tensile strength requirements in this special provision will be superseded by the special provisions for Warm Mix Asphalt, Reclaimed Asphalt Shingles, or Reclaimed Asphalt Pavement as applicable.

Mix Design Testing. Add the following to Article 1030.04 of the Standard Specifications:

"(d) Verification Testing. High ESAL, IL-4.75, and SMA mix designs submitted for verification will be tested to ensure that the resulting mix designs will pass the required criteria for the Hamburg Wheel Test (IL mod AASHTO T-324) and the Tensile Strength Test (IL mod AASHTO T-283). The Department will perform a verification test on gyratory specimens compacted by the Contractor. If the mix fails the Department's verification test, the Contractor shall make the necessary changes to the mix and resubmit compacted specimens to the Department for verification. If the mix fails again, the mix design will be rejected.

Added 1/9/13

All new and renewal mix designs will be required to be tested, prior to submittal for Department verification meeting the following requirements:

(1)Hamburg Wheel Test criteria.

Asphalt Binder Grade	# Repetitions	Max Rut Depth (mm)
PG 76 -XX (or higher)	20,000	12.5
PG 64 -XX (or lower)	10,000	12.5

Note: For SMA Designs (N-80) the maximum rut depth is 6.0 mm at 20,000 repetitions. For IL 4.75mm Designs (N-50) the maximum rut depth is 9.0mm at 15,000 repetitions.

(2) Tensile Strength Criteria. The minimum allowable conditioned tensile strength shall be 415 kPa (60 psi) for non-polymer modified performance graded (PG) asphalt binder and 550 kPa (80 psi) for polymer modified PG asphalt binder. The maximum allowable unconditioned tensile strength shall be 1380 kPa (200 psi).”

Production Testing. Add the following to Article 1030.06 of the Standard Specifications:

“(c) Hamburg Wheel Test. All HMA mixtures shall be sampled within the first 500 tons (450 metric tons) on the first day of production or during start up with a split reserved for the Department. The mix sample shall be tested according to the Illinois Modified AASHTO T 324 and shall meet the requirements specified herein. Mix production shall not exceed 1500 tons (1350 metric tons) or one day’s production, whichever comes first, until the testing is completed and the mixture is found to be in conformance. The requirement to cease mix production may be waived if the plant produced mixture demonstrates conformance prior to start of mix production for a contract. The Department may conduct additional Hamburg Wheel Tests on production material as determined by the Engineer. If the mixture fails to meet the Hamburg Wheel criteria, no further mixture will be accepted until the Contractor takes such action as is necessary to furnish a mixture meeting the criteria”

Basis of Payment. Revise the seventh paragraph of Article 406.14 of the Standard Specifications to read:

“For all mixes designed and verified under the Hamburg Wheel criteria, the cost of furnishing and introducing anti-stripping additives in the HMA will not be paid for separately, but shall be considered as included in the contract unit price of the HMA item involved.

No additional compensation will be awarded to the Contractor because of reduced production rates associated with the addition of the anti-stripping additive.”

Added 1/9/13