



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

September 9, 2013

SUBJECT: FAI Route 57/70(I-57/70)
Project NHPP-000S(940)
Section (25-4)R, (25-4HVB-1)BY & (25-4)BR
Effingham County
Contract No. 74295
Item No. 50, 09/20/13 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. Replaced the Schedule of Prices.
2. Revised sheets 12, 27, 29, 34, 35, 37, 37A, 55, 130, 131, 535, 536, 567-570, 587-592, 1662 and 1760 of the Plans.
3. Revised page v of the Table of Contents to the Special Provisions.
4. Revised pages 19, 21 and 81 of the Special Provisions.
5. Added pages 381-392 to the Special Provisions.

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

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

Very truly yours,

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

A handwritten signature in cursive script, appearing to read "Ted B. Walschleger" followed by a small "P.E." monogram.

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

cc: Roger Driskell, Region 4, District 7; Tim Kell; D. Carl Puzey; Estimates

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF PRICES
 CONTRACT
 NUMBER - 74295

State Job # - C-97-041-08

County Name - EFFINGHAM -

Code - 49 - -

District - 7 - -

Section Number - (25-4)R,(25-4HVB-1)BY,(25-4)BR

Project Number
 NHPP-000S/940/

Route
 FAI 57
 FAI 70

* REVISED: SEPTEMBER 04, 2013

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
D2002972	E-PINUS STROBUS 6'	EACH	900.000				
XX006119	TRAF CON & PRO DETOUR	L SUM	1.000				
X0301242	PIEZO AXLE SEN CL 2	FOOT	66.000				
X0321778	SEISMIC RESTRAINER	EACH	38.000				
X0322278	RODENT SHIELDS	EACH	129.000				
X0322792	BEDDING MATERIAL SPL	CU YD	213.300				
X0323149	TEMP M S EARTH RET WL	SQ FT	5,825.000				
X0325279	CLASS SI CONC (MISC)	CU YD	188.000				
X0325379	DIRECTIONAL BORING	FOOT	250.000				
X0325571	TRAF CONTR SUPERVISOR	CAL DA	650.000				
X0327270	TC-PROT ALT ROUTE SN	CAL MO	30.000				
X0327272	MAINT EX TRAF CONTROL	CAL MO	30.000				
X0327613	REM WEATHER STATION	L SUM	1.000				
*ADD X0327642	TEMP REL POW TR LINES	L SUM	1.000				
X0358300	REM & RELAY END SECT	EACH	4.000				

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X4063500	PRELIM TEST STRIP	EACH	1.000				
X4211080	WF BM TERM JT COM SPL	EACH	5.000				
X4400110	TEMP PAVT REMOVAL	SQ YD	11,546.000				
X4401198	HMA SURF REM VAR DP	SQ YD	34,044.000				
X4402020	CONC MEDIAN SURF REM	SQ FT	338.000				
X4404400	PAVT REMOVAL SPL	SQ YD	42,443.000				
X4421000	PARTIAL DEPTH PATCH	TON	257.000				
X4422000	PARTIAL DEPTH REM VAR	SQ YD	3,913.000				
X5000015	REM & REIN PIPE CULV	FOOT	158.000				
X5030353	CONC WEAR SURF 5.25	SQ YD	1,076.000				
X5040100	PREC BRIDGE APP SLAB	SQ FT	9,680.000				
X5041800	CONCRETE ANCHORS	EACH	22.000				
X5210245	HLMR BRG GUID EX 1150	EACH	19.000				
X5400806	PCBC 8X6 SPECIAL	FOOT	161.000				
X5860110	GRANULAR BACKFILL STR	CU YD	1,077.000				

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X6050310	FILL INLETS SPL	EACH	4.000				
X6061702	CONC MED TSM DOW	SQ FT	17,147.000				
X6340205	GUARD POSTS REMOV	EACH	10.000				
X6370050	CONC BAR WALL SPL	FOOT	37.000				
X6370250	C BAR VAR X-SEC 42HT	FOOT	722.000				
X7010216	TRAF CONT & PROT SPL	L SUM	1.000				
X7010238	CHANGE MESSAGE SN SPL	CAL MO	520.000				
X7800700	PREF THPL PM SHIELD	EACH	7.000				
X7830068	GRV RCSD PVT LT N SYM	SQ FT	1,329.000				
X7830070	GRV RCSD PVT MRKG 5	FOOT	112,590.000				
X7830074	GRV RCSD PVT MRKG 7	FOOT	21,625.000				
X7830076	GRV RCSD PVT MRKG 9	FOOT	11,035.000				
X7830078	GRV RCSD PVT MRKG 13	FOOT	2,067.000				
* DEL X8040500	RELOC ELECT SERVICE	L-SUM	1.000				
X8110522	CON AT ST 2 SS	FOOT	40.000				

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X8360103	LT POLE FDN INT BW	EACH	8.000				
X8360120	LIGHT POLE FDN SPL	EACH	23.000				
X8410102	TEMP LIGHTING SYSTEM	L SUM	1.000				
X8730250	ELCBL C 20 3C TW SH	FOOT	823.000				
X8730810	EC C CONOGA 30003	FOOT	1,830.000				
X8950130	MOD EX LTG CONTROLLER	EACH	1.000				
Z0001899	JACK & REM EX BEARING	EACH	64.000				
Z0004552	APPROACH SLAB REM	SQ YD	843.000				
Z0007101	C&D LEAD PT CL RS N1	L SUM	1.000				
Z0010501	CLEAN & PT STL BR N1	L SUM	1.000				
Z0012111	BRD FLYASH/SLAG 2 1/2	SQ YD	658.000				
Z0012144	BR DECK SCAR 2 1/2	SQ YD	658.000				
Z0012754	STR REP CON DP = < 5	SQ FT	383.000				
Z0013300	CONC REM SPEC	SQ YD	13.900				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.000				

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Z0016002	DECK SLAB REP (FD-T2)	SQ YD	27.000				
Z0016200	DECK SLAB REP (PART)	SQ YD	10.000				
Z0016702	DETOUR SIGNING	L SUM	1.000				
Z0018800	DRAINAGE SYSTEM	L SUM	1.000				
Z0026407	TEMP SHT PILING	SQ FT	11,924.000				
Z0029090	DIAMOND GRIND BR SEC	SQ YD	7,165.000				
Z0034105	MATL TRANSFER DEVICE	TON	2,640.000				
Z0041895	POLYMER CONCRETE	CU FT	11.000				
Z0046304	P UNDR FOR STRUCT 4	FOOT	435.000				
Z0048665	RR PROT LIABILITY INS	L SUM	1.000				
Z0054505	ROCK FILL - REPLACE	TON	232.700				
Z0054517	ROCK FILL - FOUNDATN	TON	154.700				
Z0073002	TEMP SOIL RETEN SYSTM	SQ FT	2,514.000				
Z0076502	TRAF MANAGEMENT SYS	CAL MO	30.000				
Z0076504	TRAF MANAG SYS INSTAL	L SUM	1.000				

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Z0076600	TRAINEES	HOUR	2,500.000		0.800		2,000.000
Z0076604	TRAINEES TPG	HOUR	2,500.000		10.000		25,000.000
20100110	TREE REMOV 6-15	UNIT	423.000				
20100210	TREE REMOV OVER 15	UNIT	1,499.000				
20100500	TREE REMOV ACRES	ACRE	8.250				
20200100	EARTH EXCAVATION	CU YD	167,155.000				
20201200	REM & DISP UNS MATL	CU YD	1,257.100				
20400800	FURNISHED EXCAVATION	CU YD	226,840.000				
20700220	POROUS GRAN EMBANK	CU YD	1,013.600				
20800150	TRENCH BACKFILL	CU YD	3,413.000				
21101615	TOPSOIL F & P 4	SQ YD	402,540.000				
25000200	SEEDING CL 2	ACRE	76.000				
25000300	SEEDING CL 3	ACRE	2.000				
25000350	SEEDING CL 7	ACRE	85.000				
25000400	NITROGEN FERT NUTR	POUND	6,390.000				

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25000500	PHOSPHORUS FERT NUTR	POUND	6,390.000				
25000600	POTASSIUM FERT NUTR	POUND	6,390.000				
25000700	AGR GROUND LIMESTONE	TON	4.000				
25000750	MOWING	ACRE	77.000				
25100115	MULCH METHOD 2	ACRE	77.000				
25100630	EROSION CONTR BLANKET	SQ YD	2,860.000				
28000200	EARTH EXC - EROS CONT	CU YD	40.000				
28000305	TEMP DITCH CHECKS	FOOT	9,131.000				
28000400	PERIMETER EROS BAR	FOOT	28,070.000				
28000500	INLET & PIPE PROTECT	EACH	102.000				
28001000	AGGREGATE - EROS CONT	TON	13.000				
28100105	STONE RIPRAP CL A3	SQ YD	589.000				
28100107	STONE RIPRAP CL A4	SQ YD	6,444.000				
28100109	STONE RIPRAP CL A5	SQ YD	250.000				
28200200	FILTER FABRIC	SQ YD	6,694.000				

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30200650	PROCESS MOD SOIL 12	SQ YD	222,209.000				
30201250	PROCESS MOD SOIL 24	SQ YD	11,179.000				
30201500	LIME	TON	5,091.700				
30201800	SLAG-MOD PORT CEMENT	TON	845.000				
31200500	STAB SUBBASE HMA 4	SQ YD	233,004.000				
35101400	AGG BASE CSE B	TON	2,760.000				
40600100	BIT MATLS PR CT	GALLON	2,661.000				
40600300	AGG PR CT	TON	54.000				
40600655	LEV BIND MM N105	TON	173.000				
40600990	TEMPORARY RAMP	SQ YD	185.000				
40603090	HMA BC IL-19.0 N90	TON	954.000				
40603153	P HMA SC SMA N80	TON	3,063.000				
40603340	HMA SC "D" N70	TON	401.000				
40603350	HMA SC "D" N105	TON	197.000				
40800010	BIT MATLS PR CT	GALLON	734.000				

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40800030	AGG PR CT	TON	15.000				
40800050	INCIDENTAL HMA SURF	TON	4,728.000				
42000416	PCC PVT 9 3/4 JOINTD	SQ YD	23,730.000				
42000501	PCC PVT 10 JOINTED	SQ YD	5,703.000				
42000540	PCC PVT 12	SQ YD	37,254.000				
42001200	PAVEMENT FABRIC	SQ YD	47,809.000				
42001300	PROTECTIVE COAT	SQ YD	87,854.000				
42001420	BR APPR PVT CON (PCC)	SQ YD	325.000				
42100360	CONT REINF PCC PVT 13	SQ YD	181,801.000				
42100615	PAVT REINFORCEMENT	SQ YD	181,801.000				
42101300	PROTECTIVE COAT	SQ YD	186,169.000				
42400100	PC CONC SIDEWALK 4	SQ FT	1,120.000				
44000100	PAVEMENT REM	SQ YD	109,941.000				
44000500	COMB CURB GUTTER REM	FOOT	1,802.000				
44000600	SIDEWALK REM	SQ FT	1,152.000				

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44003510	MEDIAN REMOVAL (PD)	SQ FT	17,147.000				
44004000	PAVED DITCH REMOVAL	FOOT	1,695.000				
44004250	PAVED SHLD REMOVAL	SQ YD	59,160.000				
44201000	CL B PATCH T4 12	SQ YD	87.000				
44201043	CL B PATCH T2 16	SQ YD	67.000				
44201047	CL B PATCH T3 16	SQ YD	32.000				
44201299	DOWEL BARS 1 1/2	EACH	260.000				
44213100	PAVEMENT FABRIC	SQ YD	119.000				
44213200	SAW CUTS	FOOT	721.000				
44213204	TIE BARS 3/4	EACH	25.000				
48101200	AGGREGATE SHLDS B	TON	5,393.000				
48102100	AGG WEDGE SHLD TYPE B	TON	294.000				
48203029	HMA SHOULDERS 8	SQ YD	1,745.000				
48203100	HMA SHOULDERS	TON	1,298.000				
48300800	PCC SHOULDERS 13	SQ YD	10,555.000				

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50100100	REM EXIST STRUCT	EACH	2.000				
50102400	CONC REM	CU YD	175.900				
50104400	CONC HDWL REM	EACH	4.000				
50104650	SLOPE WALL REMOV	SQ YD	3,928.600				
50105220	PIPE CULVERT REMOV	FOOT	2,396.000				
50157300	PROTECTIVE SHIELD	SQ YD	2,554.000				
50200100	STRUCTURE EXCAVATION	CU YD	1,838.700				
50200450	REM/DISP UNS MATL-STR	CU YD	240.500				
50300100	FLOOR DRAINS	EACH	92.000				
50300225	CONC STRUCT	CU YD	1,441.100				
50300254	RUBBED FINISH	SQ FT	377.000				
50300255	CONC SUP-STR	CU YD	2,292.700				
50300260	BR DECK GROOVING	SQ YD	7,929.000				
50300300	PROTECTIVE COAT	SQ YD	8,692.300				
50500105	F & E STRUCT STEEL	L SUM	1.000				

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50500405	F & E STRUCT STEEL	POUND	24,530.000				
50500505	STUD SHEAR CONNECTORS	EACH	20,908.000				
50800105	REINFORCEMENT BARS	POUND	63,020.000				
50800205	REINF BARS, EPOXY CTD	POUND	847,730.000				
50800515	BAR SPLICERS	EACH	5,583.000				
50800530	MECHANICAL SPLICERS	EACH	806.000				
50900200	STEEL RAIL TYPE 2399	FOOT	450.000				
51100100	SLOPE WALL 4	SQ YD	4,775.400				
51201900	FUR STL PILE HP14X89	FOOT	12,270.000				
51202305	DRIVING PILES	FOOT	12,270.000				
51203900	TEST PILE ST HP14X89	EACH	2.000				
51500100	NAME PLATES	EACH	2.000				
52000110	PREF JT STRIP SEAL	FOOT	789.500				
52100010	ELAST BEARING ASSY T1	EACH	46.000				
52100505	ANCHOR BOLTS 5/8	EACH	16.000				

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52100520	ANCHOR BOLTS 1	EACH	228.000				
52100530	ANCHOR BOLTS 1 1/4	EACH	108.000				
54001001	BOX CUL END SEC C1	EACH	1.000				
54002020	EXPAN BOLTS 3/4	EACH	78.000				
54003000	CONC BOX CUL	CU YD	287.900				
54010806	PCBC 8X6	FOOT	131.000				
542A0220	P CUL CL A 1 15	FOOT	52.000				
542A0229	P CUL CL A 1 24	FOOT	20.000				
542A0241	P CUL CL A 1 36	FOOT	104.000				
542A1060	P CUL CL A 2 15	FOOT	75.000				
542A1069	P CUL CL A 2 24	FOOT	85.000				
542A2749	P CUL CL A 4 24	FOOT	178.000				
542A2803	P CUL CL A 4 78	FOOT	98.000				
542JA078	P CUL CL A 78 JKD	FOOT	177.000				
54213660	PRC FLAR END SEC 15	EACH	5.000				

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54213669	PRC FLAR END SEC 24	EACH	6.000				
54213681	PRC FLAR END SEC 36	EACH	5.000				
54213723	PRC FLAR END SEC 78	EACH	1.000				
54215424	CIP RC END SEC 24	EACH	4.000				
54215550	MET END SEC 15	EACH	8.000				
54215553	MET END SEC 18	EACH	1.000				
54215559	MET END SEC 24	EACH	1.000				
54215991	R C PIPE ELBOW 36	EACH	3.000				
54248510	CONCRETE COLLAR	CU YD	6.000				
550A0070	STORM SEW CL A 1 15	FOOT	611.000				
550A0160	STORM SEW CL A 1 36	FOOT	172.000				
550A0410	STORM SEW CL A 2 24	FOOT	6,321.000				
550A0450	STORM SEW CL A 2 36	FOOT	3.000				
*ADD 56106300	ADJ WATER MAIN 6	FOOT	900.000				
58700300	CONCRETE SEALER	SQ FT	16,856.000				

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59100100	GEOCOMPOSITE WALL DR	SQ YD	472.000				
59300100	CONTR LOW-STRENG MATL	CU YD	20.000				
60100060	CONC HDWL FOR P DRAIN	EACH	4.000				
60100905	PIPE DRAINS 4	FOOT	1,476.000				
60100955	PIPE DRAINS 15	FOOT	754.000				
60100965	PIPE DRAINS 18	FOOT	38.000				
60100985	PIPE DRAINS 24	FOOT	37.000				
60107600	PIPE UNDERDRAINS 4	FOOT	15,934.000				
60107700	PIPE UNDERDRAINS 6	FOOT	59,451.000				
60108100	PIPE UNDERDRAIN 4 SP	FOOT	350.000				
60108200	PIPE UNDERDRAIN 6 SP	FOOT	1,077.000				
60218400	MAN TA 4 DIA T1F CL	EACH	4.000				
60221100	MAN TA 5 DIA T1F CL	EACH	3.000				
60234200	INLETS TA T1F OL	EACH	4.000				
60235300	INLETS TA T1F CL	EACH	2.000				

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60235700	INLETS TA T3F&G	EACH	4.000				
60236200	INLETS TA T8G	EACH	2.000				
60240215	INLETS TB T1F CL	EACH	3.000				
60240220	INLETS TB T3F&G	EACH	2.000				
60258300	MAN RECON NEW T3F&G	EACH	1.000				
60270055	DR STR T5 W/2 T22F&G	EACH	27.000				
60500060	REMOV INLETS	EACH	16.000				
60603800	COMB CC&G TB6.12	FOOT	231.000				
60605000	COMB CC&G TB6.24	FOOT	2,184.000				
60608600	COMB CC&G TM6.06	FOOT	114.000				
60618300	CONC MEDIAN SURF 4	SQ FT	274.000				
60618320	CONC MEDIAN SURF 6	SQ FT	1,452.000				
60900515	CONC THRUST BLOCKS	EACH	8.000				
61000335	TY G INLET BOX 610001	EACH	1.000				
63000001	SPBGR TY A 6FT POSTS	FOOT	8,300.000				

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District - 7 - -

Section Number - (25-4)R,(25-4HVB-1)BY,(25-4)BR

Project Number
 NHPP-000S/940/

Route
 FAI 57
 FAI 70

* REVISED: SEPTEMBER 04, 2013

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
63100045	TRAF BAR TERM T2	EACH	17.000				
63100085	TRAF BAR TERM T6	EACH	13.000				
63100087	TRAF BAR TERM T6A	EACH	4.000				
63100167	TR BAR TRM T1 SPL TAN	EACH	24.000				
63200310	GUARDRAIL REMOV	FOOT	11,533.000				
63200400	CABLE ROAD GD REM	FOOT	3,486.000				
63301210	REM RE-E SPBGR TY A	FOOT	1,804.000				
63500105	DELINEATORS	EACH	477.000				
63700175	CONC BAR 1F 42HT	FOOT	753.000				
63700275	CONC BAR 2F 42HT	FOOT	6,217.000				
63700900	CONC BARRIER BASE	FOOT	7,729.000				
64200116	SHOULDER RUM STRIP 16	FOOT	93,859.000				
66500105	WOV W FENCE 4	FOOT	3,486.000				
66700205	PERM SURV MKRS T1	EACH	74.000				
67000400	ENGR FIELD OFFICE A	CAL MO	30.000				

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67000600	ENGR FIELD LAB	CAL MO	30.000				
67100100	MOBILIZATION	L SUM	1.000				
70100100	TRAF CONT-PROT 701316	EACH	1.000				
70100205	TRAF CONT-PROT 701401	EACH	1.000				
70100420	TRAF CONT-PROT 701411	EACH	2.000				
70100450	TRAF CONT-PROT 701201	L SUM	1.000				
70100700	TRAF CONT-PROT 701406	L SUM	1.000				
70100820	TRAF CONT-PROT 701451	L SUM	1.000				
70102635	TR CONT & PROT 701701	L SUM	1.000				
70103815	TR CONT SURVEILLANCE	CAL DA	657.000				
70106500	TEMP BR TRAF SIGNALS	EACH	1.000				
70300100	SHORT TERM PAVT MKING	FOOT	13,775.000				
70300210	TEMP PVT MK LTR & SYM	SQ FT	603.000				
70300220	TEMP PVT MK LINE 4	FOOT	112,590.000				
70300240	TEMP PVT MK LINE 6	FOOT	21,625.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
70300250	TEMP PVT MK LINE 8	FOOT	11,035.000				
70300260	TEMP PVT MK LINE 12	FOOT	2,067.000				
70300280	TEMP PVT MK LINE 24	FOOT	115.000				
70301000	WORK ZONE PAVT MK REM	SQ FT	60,044.000				
70400100	TEMP CONC BARRIER	FOOT	32,166.000				
70400200	REL TEMP CONC BARRIER	FOOT	35,328.000				
70600250	IMP ATTN TEMP NRD TL3	EACH	9.000				
70600332	IMP ATTN REL FRN TL3	EACH	1.000				
70600350	IMP ATTN REL NRD TL3	EACH	18.000				
72000100	SIGN PANEL T1	SQ FT	656.400				
72000200	SIGN PANEL T2	SQ FT	368.000				
72000300	SIGN PANEL T3	SQ FT	9,257.000				
72400330	REMOV SIGN PANEL T3	SQ FT	5,188.000				
72700100	STR STL SIN SUP BA	POUND	30,821.000				
73000100	WOOD SIN SUPPORT	FOOT	1,433.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
73300100	OVHD SIN STR-SPAN T1A	FOOT	381.000				
73301810	OSS WALKWAY TY A	FOOT	310.000				
73302170	OSS CANT 2CA 3-0X5-6	FOOT	120.000				
73400100	CONC FOUNDATION	CU YD	67.200				
73400200	DRILL SHAFT CONC FDN	CU YD	116.500				
73600100	REMOV OH SIN STR-SPAN	EACH	5.000				
73700100	REM GR MT SIN SUPPORT	EACH	44.000				
73700200	REM CONC FDN-GR MT	EACH	44.000				
73700300	REM CONC FDN-OVHD	EACH	10.000				
78006100	PREF THPL PM LTR-SYM	SQ FT	234.000				
78009000	MOD URETH PM LTR-SYM	SQ FT	603.000				
78009004	MOD URETH PM LINE 4	FOOT	112,590.000				
78009006	MOD URETH PM LINE 6	FOOT	21,625.000				
78009008	MOD URETH PM LINE 8	FOOT	11,035.000				
78009012	MOD URETH PM LINE 12	FOOT	2,067.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
78009024	MOD URETH PM LINE 24	FOOT	115.000				
78100100	RAISED REFL PAVT MKR	EACH	1,680.000				
78100105	RAISED REF PVT MKR BR	EACH	66.000				
78200410	GUARDRAIL MKR TYPE A	EACH	138.000				
78200420	GUARDRAIL MKR TYPE B	EACH	6.000				
78201000	TERMINAL MARKER - DA	EACH	24.000				
78300100	PAVT MARKING REMOVAL	SQ FT	627.000				
80400100	ELECT SERV INSTALL	EACH	3.000				
80500100	SERV INSTALL TY A	EACH	1.000				
81028310	UNDRGRD C PVC 3/4	FOOT	53.000				
81028330	UNDRGRD C PVC 1 1/4	FOOT	221.000				
81028340	UNDRGRD C PVC 1 1/2	FOOT	755.000				
81028350	UNDRGRD C PVC 2	FOOT	766.000				
81028360	UNDRGRD C PVC 2 1/2	FOOT	108.000				
81028370	UNDRGRD C PVC 3	FOOT	212.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
81028390	UNDRGRD C PVC 4	FOOT	410.000				
81028760	UNDRGRD C CNC 2 1/2	FOOT	1,255.000				
81028770	UNDRGRD C CNC 3	FOOT	350.000				
81100500	CON AT ST 1 1/2 GALVS	FOOT	15.000				
81200230	CON EMB STR 2 PVC	FOOT	7,735.000				
81300530	JUN BX SS AS 12X10X6	EACH	4.000				
81300986	JUN BX SS ES 8X24X10	EACH	7.000				
81400100	HANDHOLE	EACH	5.000				
81400200	HD HANDHOLE	EACH	4.000				
81400300	DBL HANDHOLE	EACH	1.000				
81500100	GULFBOX JUNCTION	EACH	7.000				
81603000	UD 2#8 #8G XLPUSE 3/4	FOOT	10,719.000				
81603030	UD 2#4 #6G XLPUSE 1	FOOT	10,922.000				
81603040	UD 2#6 #8G XLPUSE 1	FOOT	8,888.000				
81603070	UD 2#2#4GXLPUSE 1 1/4	FOOT	1,020.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
81702120	EC C XLP USE 1C 8	FOOT	1,895.000				
81702130	EC C XLP USE 1C 6	FOOT	14,709.000				
81702140	EC C XLP USE 1C 4	FOOT	13,674.000				
82102400	LUM SV HOR MT 400W	EACH	178.000				
82103400	LUM SV HOR MT PC 400W	EACH	4.000				
82109105	SIGN LIGHTING (HPS)	EACH	30.000				
82500300	LT CONT PM 240V 30	EACH	1.000				
82500360	LT CONT BASEM 480V100	EACH	2.000				
82500380	LT CONT BASEM 480V200	EACH	1.000				
83003350	LT P A 45MH 8DA-TW	EACH	31.000				
83004600	LT P A 50MH 15DA	EACH	106.000				
83053150	LT P A 50MH 15DA TW	EACH	5.000				
83600357	LP F M 15BC 8" X 8'	EACH	107.000				
83800650	BKWY DEV COU SS SCRNR	EACH	380.000				
84200600	REM LT U NO SALV	EACH	19.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
84200804	REM POLE FDN	EACH	10.000				
84500110	REMOV LIGHTING CONTR	EACH	4.000				
84500120	REMOV ELECT SERV INST	EACH	2.000				
84500130	REMOV LTG CONTR FDN	EACH	4.000				
85700200	FAC T4 CAB	EACH	1.000				
85800100	FL CONT	EACH	1.000				
86200300	UNINTER POWER SUP EXT	EACH	1.000				
86300300	CONT CAB TYPE III	EACH	1.000				
87301225	ELCBL C SIGNAL 14 3C	FOOT	790.000				
87301245	ELCBL C SIGNAL 14 5C	FOOT	2,017.000				
87301255	ELCBL C SIGNAL 14 7C	FOOT	1,467.000				
87301305	ELCBL C LEAD 14 1PR	FOOT	3,905.000				
87301805	ELCBL C SERV 6 2C	FOOT	35.000				
87301900	ELCBL C EGRDC 6 1C	FOOT	591.000				
87502700	TS POST A 16	EACH	3.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
87700180	S MAA & P 28	EACH	1.000				
87702900	STL COMB MAA&P 34	EACH	1.000				
87702970	STL COMB MAA&P 48	EACH	1.000				
87800100	CONC FDN TY A	FOOT	9.000				
87800150	CONC FDN TY C	FOOT	3.500				
87800215	CONC FDN TY D	EACH	1.000				
87800400	CONC FDN TY E 30D	FOOT	10.000				
87800415	CONC FDN TY E 36D	FOOT	24.000				
88040030	SH P LED 1F 1S PM	EACH	1.000				
88040070	SH P LED 1F 3S BM	EACH	2.000				
88040090	SH P LED 1F 3S MAM	EACH	4.000				
88040160	SH P LED 1F 5S MAM	EACH	2.000				
88040230	SH P LED 2F 3S BM	EACH	1.000				
88040290	SH P LED 2F 5S BM	EACH	1.000				
88200410	TS BACKPLATE L F PLAS	EACH	12.000				

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
88500100	INDUCTIVE LOOP DETECT	EACH	14.000				
88600100	DET LOOP T1	FOOT	2,182.000				
88700200	LIGHT DETECTOR	EACH	3.000				
88700300	LIGHT DETECTOR AMP	EACH	1.000				
89502400	REM EX FB INSTAL COMP	EACH	1.000				

PLACING AND CONSOLIDATING CONCRETE (BDE).....	256
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In addition, the following Special Provisions will also govern traffic control for this project:

KEEPING THE ROADS OPEN TO TRAFFIC
SEQUENCE OF CONSTRUCTION
TRAFFIC CONTROL AND PROTECTION, (SPECIAL)
TRAFFIC CONTROL AND PROTECTION (DETOUR)
DETOUR SIGNING
LINEAR DELINEATION PANELS
CONTRACTOR ACCESS OPENINGS
TRAFFIC CONTROL AND PROTECTION FOR ALTERNATE ROUTE SIGNING
MAINTENANCE OF EXISTING TRAFFIC CONTROL
CHANGEABLE MESSAGE SIGN, SPECIAL
TRAFFIC MANAGEMENT SYSTEM INSTALLATION
TRAFFIC MANAGEMENT SYSTEM
TRAFFIC CONTROL SUPERVISOR
FAILURE TO OPEN US ROUTE 45 TRAFFIC LANES TO TRAFFIC
FAILURE TO OPEN US ROUTE 45 RAMPS TO TRAFFIC
BRIDGE CONSTRUCTION
BRIDGE REPAIR EXISTING US ROUTE 45 STRUCTURES
TEMPORARY LIGHTING SYSTEM
WET REFLECTIVE URETHANE TEMPORARY PAVEMENT MARKING PAINT
WET REFLECTIVE TEMPORARY TAPE, TYPE III, INTERSTATE SHIELD
AUTOMATED FLAGGER ASSISTANCE DEVICES (BDE)
LIGHTING FOR NIGHTTIME HIGHWAY CONSTRUCTION
RESTRICTIONS TO THE CONTRACTOR'S OPERATIONS
TRAFFIC CONTROL PLAN (FOR BRIDGE PROJECTS)
TRAFFIC CONTROL DEFICIENCY DEDUCTION (BDE)

KEEPING THE ROADS OPEN TO TRAFFIC

The Contractor for this Section is advised that he/she will be required to conduct and coordinate the construction operations for this project in such a manner so as to cause the least interference or inconvenience to the motoring public and to otherwise maintain traffic as herein specified.

FAI Routes 57 and 70 North Tri-Level Roadways:

Two lanes of traffic on directional roadways shall be maintained at all times except when stage construction operations require the closure of one lane of traffic as herein specified.

One lane of traffic may be closed during off-peak hours only for mainline, FAI-57/70, and directional roadways during Pre-Stage 1 and specific operations meeting the approval of the Engineer in other stages. These operations will be limited to nighttime periods during off-peak hours on weekdays Monday through Thursday between 7:00 pm to 7:00 am. These periods begin at 7:00 pm Sunday and end 7:00 am Friday. All lanes shall be open to traffic for weekends commencing at 7:00 pm Friday through 7:00 pm Sunday and on holidays as specified in Article 107.09 of the Standard Specifications.

Revised 9-9-13

North Tri-Level Ramp G:

One lane of traffic shall be maintained at all times during stage construction operations and traffic control installed as shown on the plans and as directed by the Engineer.

General:

Unless otherwise specified, no overnight lane closures will be permitted on any of the roadways or ramps influenced by stage construction operations within the project limits.

Advance warning signs shall be installed on all ramps, roadways, cross roads and frontage roads within the limits of this project. These signs shall be installed prior to performing work on this project and shall remain in place for the duration of this contract unless otherwise directed by the Engineer. Costs for the advance warning signs will not be paid for separately but considered included in the other items of work.

Lane restrictions or closures for the construction of this project are subject to stage construction and traffic management operations as shown on the plans and as indicated in the Sequence of Construction for this project. The Contractor is advised that the construction of temporary pavements and lane restrictions for mainline roadways as outlined for Pre-Stage 1 shall be performed at night during off-peak hours. All lanes shall be re-opened to traffic during peak hours during Pre-Stage 1 as herein specified.

Removal of paved shoulder, required for Pre-Stage 1 construction of temporary pavements, shall be limited to a length of removed shoulder that can be filled the same night.

No open trenches or holes adjacent to lanes open to traffic will be permitted during daylight hours.

The Contractor shall take into account the requirements for maintaining traffic as herein specified in submitting the contract unit prices for the various items of work, as no additional compensation will be allowed for any cost or delays that result from compliance with this provision.

FAILURE TO OPEN US ROUTE 45 TRAFFIC LANES TO TRAFFIC

The contract provisions for this contract include requirements and time frames for closing lanes of the Northbound and Southbound US Route 45 to all traffic.

Should the Contractor fail to open all lanes of US Route 45 to traffic as specified elsewhere in these provisions, the Contractor shall be liable to the Department for the amount of \$5,000 per lane not open to traffic for every 15 minute interval.

This liability shall not be applied as a penalty but as liquidated and ascertained damages for every 15 minute interval or a portion thereof that any US Route 45 traffic lane is not open to traffic outside the time limitations. Such damages may be deducted by the Department from any monies due the Contractor. These damages may be assessed at anytime while this contract is in force, including any contract extensions of time.

AMEREN OVERHEAD POWER LINES

The Contractor is advised of the existence of Ameren overhead power lines in the vicinity of the west abutments for the US Route 45 Bridge reconstruction. It is anticipated that the overhead lines will restrict the Contractor's construction operations for the US Route 45 Bridge reconstruction and embankment construction on the south side of the mainline FAI 57/70 roadway.

The Contractor will be required to assess and coordinate with Ameren regarding the need to temporarily relocate the existing overhead power lines. Should it be determined that relocation of the existing Ameren overhead power lines is necessary, the Contractor will be responsible for all coordination efforts and costs associated with temporary relocation of the overhead power lines and return of the overhead power poles to their current location upon completion of the US Route 45 Bridge reconstruction.

This work will be paid for at the contract unit price per lump sum for TEMPORARY RELOCATION OF POWER TRANSMISSION LINES. The Contractor shall take into account the restrictions as herein specified in submitting the contract unit prices for the various item of work as no additional compensation will be allowed for any costs incurred that result from restrictions or delays to the Contractor's operations.

REMOVE EXISTING WEATHER STATION

This work shall consist of the complete removal and disposal of the existing weather station located at the northeast corner of the existing dual structures carrying FAI Route 57/70 over US Route 45 at the location shown in the plans as directed by the Engineer and in accordance with the applicable sections of the Standard Specifications. This work shall include removal of all existing weather station components, foundations, surrounding chain link fence, and any associated conduit and wiring attached to the existing US Route 45 dual structures. The Contractor shall also remove and abandon the weather station's existing power source in a manner meeting the approval of the Engineer.

The existing weather station to be removed under this item shall remain the property of the Department and be delivered by the Contractor to the IDOT District 7 Effingham West Maintenance Yard (1900 West National Avenue, Effingham, Illinois 62401).

This work will be paid for at the contract lump sum price for REMOVE EXISTING WEATHER STATION, as herein specified.

Revised 9-9-13

ADJUSTING WATER MAIN 6"

Description:

This work shall consist of adjustment to an existing 6 inch water main located along the north side of southbound I-57 (Roadway C) from approximate Sta. 13+50 Rt. to Sta. 22+50 Rt. as necessary to eliminate conflicts with proposed grading activities and re-establish a minimum of 42 inches of cover along the water main.

The Contractor will be required to construct a new water main on existing State right-of-way immediately adjacent to and parallel with the existing water main with a minimum 42 inches of cover, connect the new water main to the existing water main, pressure test the new water main, and abandon and cap any portion of the existing water main to be left in place. The new water main shall be placed no closer than 2 ft. from the existing water main. The Contractor shall install tracer wire along the new water main with locating stations at each end of the relocation.

The new water main shall be constructed in accordance with the plans, the latest edition of "THE STANDARD SPECIFICATIONS FOR WATER & SEWER CONSTRUCTION IN ILLINOIS", and the City of Effingham's Water Main Requirements and Specifications included elsewhere in these special provisions and in a manner meeting the approval of the Engineer.

The Contractor shall coordinate with the City of Effingham Water Department (Mr. Brent Stortzum, 217-342-2366) and Engineering Department (Mr. Greg Koester, 217-342-5303) regarding shutdown of the existing water main, turn-on of adjusted water main, water main flushing, water main sampling and analysis, relocation of the existing service tap, and final inspection.

The City of Effingham Water Department will relocate the Dogs By Design service tap from the existing water main to the new water main at approximate Sta. 22+50 Rt. along southbound I-57 (Roadway C). City personnel will install a saddle, corporation stop, and a section of service piping with a valve while the Contractor installs the new water main in the vicinity of this service tap. Installation of these items will help facilitate air release and flushing of the system and also ease relocation of the service tap to the new water main.

The Contractor will be required to expose a minimum of 20 feet of the existing water main at the connection point. The Contractor will have the option of either cutting the existing water main and utilizing solid sleeve fittings for connection to the new water main or using tapping sleeves and valves for the connection. The existing water main must be shut off by City personnel regardless of the option chosen by the Contractor for the connection. The Contractor will be allowed to install the new water main such that the pipe deflects up and over to align with the existing water main or use fittings with 45 degree bends to align the new water main with the existing water main.

Added 9-9-13

The Contractor will be required to flush the system from both directions utilizing a fire hydrant located approximately 0.75 miles from the adjusted water main. A boil order will be issued by the City for the three customers with service taps on this section of the water main.

The Contractor shall use Polyvinyl Chloride (PVC) Pipe – SDR 21, Class 200 for the new water main which meets the requirements of Section 100-1 of the City of Effingham's Water Main Requirements and Specifications. All fittings, gate valves, and valve boxes shall be in accordance with Division 500 of the City of Effingham's Water Main Requirements and Specifications. All tapping sleeves and valves (if utilized) shall be in accordance with Division 600 of the City of Effingham's Water Main Requirements and Specifications.

The Contractor shall submit a list of proposed materials for installation of the new water main to the City of Effingham Water Department for review and approval prior to installation. The submittal shall utilize the forms included in the City of Effingham's Water Main Requirements and Specifications included elsewhere in these special provisions.

Basis of Payment:

This work will be paid for at the contract unit price per foot for ADJUSTING WATER MAIN 6", which price shall include all excavation, pipe installation, pipe fittings and valves, pipe bedding material and trench backfill, tracer wire, thrust blocks, joint materials, existing pipe removal and disposal, hydrostatic testing, disinfection sampling and analysis, coordination with the City of Effingham Water Department and Engineering Department, and all other labor, equipment and materials necessary to complete the work.

Added 9-9-13

CITY OF EFFINGHAM WATER MAIN REQUIREMENTS AND SPECIFICATIONS

GENERAL REQUIREMENTS

MATERIAL SPECIFICATIONS

DIVISION 100 – PIPE

DIVISION 200 – STEEL CASING PIPE

DIVISION 300 – CASING ACCESSORIES

DIVISION 400 – JOINT RESTRAINT DEVICES

DIVISION 500 – FITTINGS, GATE VALVES & VALVE BOXES

DIVISION 600 – TAPPING SLEEVES AND VALVES

DIVISION 700 – FIRE HYDRANTS

DIVISION 800 SPECIALTY ITEMS

PROPOSED PRODUCT SUBSTITUTION FORM

SUBMITTAL TRANSMITTAL FORM

Added 9-9-13

GENERAL REQUIREMENTS

STANDARD SPECIFICATIONS:

The proposed water main shall be constructed in accordance with the plans and "THE STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS," latest edition.

DEPTH OF BURY:

The minimum depth of bury shall be 42".

TRACER WIRE:

All water mains must have a 12 gauge single strand tracer wire placed in the trench with the pipe during construction. The tracer wire shall be brought to above-grade at all fire hydrants and at other locations as directed by the City. Tracer wire shall not be installed inside a valve box. Locating Stations shall be furnished and installed by the Water Department. In no case shall a tracer wire be more than 1,000 feet between Locating Stations. There shall be no splices between Locating Stations unless approved by the City. If allowed, the splices shall be clearly marked on the as-built plans.

PRESSURE TEST:

The completed water main shall be pressure tested at 100 PSI for a minimum of one (1) hour. The test shall be observed by City personnel.

DISINFECTION:

Disinfection shall be in accordance with "THE STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS," latest edition. The location and frequency of sampling shall be shown in a sampling schedule in the construction plans. Sampling and analysis is the responsibility of the contractor. All sample results shall be submitted to the City.

PROTECTION OF WATER MAINS:

Protection of the water main from sanitary sewers, storm sewers, drains and other sources of potential contamination shall be in accordance with IEPA Rules and Regulations.

FIRE HYDRANTS:

Fire hydrants shall be installed at ten (10) feet from back of curb line or edge of surface or as directed by the Fire Official. Fire Hydrants shall also have a gate valve between it and the water main.

IN-LINE GATE VALVES

In-line gate valves shall be installed at locations determined by the City. These valves allow isolation of smaller sections of water main in the event of a main break or other emergency situations.

Added 9-9-13

BACKFILL:

Where the waterline is located in an area which now or will have a permanent type street or sidewalk surface, the backfill of the trench shall be made with the materials specified for Select Granular Backfill (FA-1 or FA-2). For trenches in streets, a temporary driving surface shall consist of a minimum of 8" of Aggregate Base Course (CA-6) and 2" of Bituminous Cold Patch material. Permanent surface repair/replacement shall consist of a minimum of 8" of Aggregate Base Course (CA-6) with the permanent surface being of the same material and thickness that was removed. For oil and chip streets, the permanent surface shall be a minimum of 3" of Hot Mix Bituminous material.

AS-BUILT PLANS:

As-built plans shall be submitted to the Director of Water and City Engineer for review and approval. Upon approval, the project shall be presented to the City Council for acceptance. The as built plans shall include the following:

- a. all deviations from the original plans including any correspondence from the IEPA approving or allowing the deviations
- b. locations where tracer wire is brought above grade (locating stations)
- c. tracer wire splices
- d. depth from existing ground or elevation of the top of pipe every 100 feet
- e. offset distances from permanent structures or objects

MATERIALS:

All materials shall be manufactured and/or produced in the United States and upon delivery, will be inspected by City personnel. The City has the right to reject any material for defects, poor workmanship and quality, damaged coating or other items that will result in poor performance, reduce service life or cause difficulty during installation. Rejected materials shall be replaced at no additional cost to the City.

SUBMITTALS:

Submittals will be required (after acceptance of proposals) for all materials to be provided. The information provided shall consist of drawings, specifications, descriptive data, and such other information as required by the City to evaluate for compliance with the Technical Specifications. A Submittal shall have a Submittal Transmittal form (included with this RFP) as a cover sheet and shall be transmitted in a quantity that the City retains 2 copies and the remainder is for the supplier's use.

Added 9-9-13

PRODUCT SUBSTITUTIONS:

Bidders shall provide prices in the Schedule of Prices for only those products and/or manufacturers specified in the Technical Specifications. Bidders may provide a list and price of items on the Proposed Product Substitution List Form for which they propose to substitute a different product and/or manufacturer than those specified. Acceptance of a proposal shall be based on the total of prices for items in the Schedule of Prices for each Division. Only the accepted proposals will have the Proposed Product Substitution List evaluated and approval or rejection of any substitutions will be made after acceptance of a proposal. WATER MAIN MATERIAL SPECIFICATIONS

MATERIALS - GENERALLY

All materials shall be manufactured and/or produced in the United States. References to Standards shall be the latest revision of the Standard.

DIVISION 100 - PIPE

100-1 POLYVINYL CHLORIDE (PVC) PIPE – SDR 21, Class 200

PVC pipe under this provision shall be class 200 psi for water main with a Standard Dimension Ratio of 21. Class 200, SDR 21 PVC Pipe shall meet the requirements of ASTM D 2241 and shall be produced from PVC compounds that equal or exceed cell class 12454 defined by ASTM D1784. Elastomeric seals (gaskets) used for PVC pipe push on joints shall meet the requirements of ASTM Standard F477 and the integral bell section shall be as hydrostatically strong as the pipe barrel and meet the requirements of ASTM D2241. The joint shall meet the requirements of ASTM D-3139 under both pressure and 22 in. HG vacuum. The pipe shall be the size as specified in the Schedule of Prices.

100-2 POLYVINYL CHLORIDE (PVC) PIPE - DR18 C900/C905

PVC pipe shall have a pressure rating of 235 psi and Dimension Ratio of 18 unless otherwise noted in the schedule of prices and shall meet the requirements of AWWA Standard C900 for sizes 4" to 12" and C905 for sizes 14" to 24". C900/C905 PVC Pipe shall be produced from PVC compounds that equal or exceed cell class 12454 defined by ASTM D1784. Elastomeric seals (gaskets) used for PVC pipe push on joints shall meet the requirements of ASTM Standard F477 and the integral bell section shall be as hydrostatically strong as the pipe barrel and meet the requirements of AWWA C900 and AWWA C905. The joint shall meet the requirements of ASTM D-3139 under both pressure and 22 in. HG vacuum. The pipe shall be the type and size as specified in the Schedule of Prices.

100-3 RESTRAINED JOINT POLYVINYL CHLORIDE (PVC) PIPE

Restrained Joint PVC Pipe 4" to 12" for C900 pipe under this provision shall have a pressure rating of 235 psi and Dimension Ratio of 18 and shall be CertainTeed Certa-Lok or JM Eagle Eagle Loc 900. Restrained Joint PVC Pipe 2" to 16" for ASTM D 2241 (IPS) pipe under this provision shall have a pressure rating of 200 psi and Dimension Ratio of 21 and shall be CertainTeed Yelomine with integral bell or couplings as noted in the Schedule of Prices. The pipe shall be the type and size as specified in the Schedule of Prices.

Added 9-9-13

100-4 DUCTILE IRON PIPE (DIP)

Ductile Iron Pipe under this provision shall be designed in accordance with ANSI/AWWA C150/A20.50 for a minimum pressure of 200 psi and manufactured in accordance with ANSI/AWWA C151/A21.51. Pipe shall be asphaltic coated and cement lined in accordance with ANSI/AWWA C104/A21.4 and supplied with compression slip joints in accordance with ANSI/AWWA C111/A21.11. The pipe shall be the size and class thickness as specified in the Schedule of Prices. Manufacturers of DIP shall be American Pipe, Griffin, Clow, or U.S. Pipe.

100-5 RESTRAINED JOINT DUCTILE IRON PIPE (DIP)

Restrained Joint Ductile Iron Pipe under this provision shall be the same as Ductile Iron Pipe except that the gasket supplied with the pipe shall incorporate stainless steel inserts that automatically provide restraint upon installation, shall be rated to a minimum of 250 p.s.i and tested in accordance with ANSI/AWWA C111/A21.11. Restrained Joint Gaskets shall be American Fastgrip, US Tyton Fieldloc, US Tyton Fieldloc 350, McWane Sure Stop 350, Talon RJ, Gripper or approved equal. The gasket shall conform to the type of pipe joint - American Fastite Joint or US Tyton Joint.

DIVISION 200 – STEEL CASING PIPE

200-1 STEEL CASING PIPE

Steel casing pipe supplied shall be 20'±¼" in length unless otherwise specified, bituminous coated in accordance with ANSI/AWWA C104/A21.4 and meet all requirements of Specification ASTM A53, Grade B, for size and wall thickness as specified on the Schedule of Prices.

DIVISION 300 – CASING ACCESSORIES

300-1 CASING SPACERS

Casing spacers supplied under these provisions shall be stainless steel with PVC liner and non-metallic anti-friction runners or high density polyethylene, centered-position for the casing pipe size and carrier pipe size as noted in the Schedule of Prices. Manufacturers of Casing Spacers shall be Advance Products & Systems, BWM Co., Cascade, Calpico, Pipeline Seal & Insulator, CCI Pipeline Systems or Raci.

300-2 CASING END SEALS

Casing end seals supplied under these provisions shall wrap around the casing and carrier pipe to provide a barrier to backfill material and seepage. The casing end seal shall be a minimum ¼" thick styrene butadiene rubber sheet attached to the carrier pipe and casing with 1" wide stainless steel bands. Zippered casing end seals with stainless steel bands may also be used. Manufacturers of Casing Spacers shall be Advance Products & Systems, BWM Co., Cascade, Calpico, Pipeline Seal & Insulator, CCI Pipeline Systems or Raci.

Added 9-9-13

DIVISION 400 – JOINT RESTRAINT DEVICES

400-1 MECHANICAL JOINT FITTING RESTRAINT DEVICES

Mechanical Joint Fitting Restraint Devices for both Ductile Iron Pipe and PVC Pipe under this provision shall have the restraint of mechanical joints incorporated into the follower gland and shall include a mechanism to impart multiple wedging action that increases with increasing pipe pressure. Follower glands shall be manufactured of ductile iron in accordance with ASTM A536. Dimensions of the follower gland shall conform to and shall be compatible with mechanical joints in accordance with ANSI/AWWA C111/A21.11 and ANSI/AWWA C153/A21.53. The device shall be rated for a minimum of 250 psi working pressure and a minimum safety factor of 2:1. The device shall incorporate torque nuts that twist off to assure proper torque is applied when installing. The device shall be for the pipe material, type and size as specified in the Schedule of Prices. Manufacturers shall be Romac, EBAA Iron, Uni-Flange or Tyler Union.

400-2 PVC PIPE PUSH ON JOINT RESTRAINT DEVICE

PVC Pipe Push on Joint Restraint Devices for C900, C905 and ASTM D2241 (IPS) PVC Pipe under this provision shall be manufactured of ductile iron conforming to ASTM A536. A serrated ring which may be a split ring shall be utilized behind the pipe bell and on the spigot end of the pipe to grip the pipe and shall have a sufficient number of bolts used to connect the bell ring to the spigot ring. The spigot ring may incorporate individually activated wedge devices to grip the pipe. The wedge devices shall incorporate torque nuts that twist off to assure proper torque is applied when installing. Bolts and nuts provided with the device shall be in accordance with ANSI/AWWA C111/A21.11. The device shall be for the pipe type and size as specified in the Schedule of Prices. Manufacturers shall be Romac, EBAA Iron, Uni-Flange or Tyler Union.

DIVISION 500 – FITTINGS, GATE VALVES & VALVE BOXES

500-1 GATE VALVES

Gate Valves under this provision shall be furnished with resilient seat in accordance with AWWA C509 or AWWA C515 and rated for a minimum 250 psi working pressure. Gate Valves shall be furnished with "O" ring stem seals, non-rising stem and shall open left (counter clockwise). All gate valves shall be mechanical joint in accordance with ANSI/AWWA C111/A21.11 and shall be furnished with accessories (nuts, bolts, glands and gaskets) unless noted as **W/O ACC** in the Schedule of Prices. Gaskets shall be Standard unless valves will connect to Iron Pipe Size (IPS) pipe where Transition Gaskets shall be provided instead of Standard Gaskets. Valves requiring transition gaskets will be noted in the Schedule of Prices as Mechanical Joint – Transition (MJ-T) and shall be in accordance with ANSI/AWWA C111/A21.11. Gate Valves shall be coated in accordance with AWWA C550 and NSF 61. Manufacturer's name, pressure rating and year of production shall be cast in the body of the valve. Gate Valves shall be as manufactured by American Flow Control, Mueller, Clow Valve and US Pipe & Foundry.

Added 9-9-13

500-2 FITTINGS

Fittings under this provision shall be designed and manufactured in accordance with ANSI/AWWA C153/A21.53 for compact ductile iron fittings and rated for a minimum of 250 psi working pressure. All fittings shall be asphaltic coated and cement lined in accordance with ANSI/AWWA C104/A21.4. Fittings shall be mechanical joint in accordance with ANSI/AWWA C111/A21.11 and shall be furnished with accessories (nuts, bolts, glands and gaskets) unless noted **W/O ACC** in the Schedule of Prices. Gaskets shall be Standard unless fittings will connect to Iron Pipe Size (IPS) pipe where Transition Gaskets shall be provided instead of Standard Gaskets. Fittings requiring transition gaskets will be noted in the Schedule of Prices as Mechanical Joint – Transition (MJ-T) and shall be in accordance with ANSI/AWWA C111/A21.11. Manufacturer's name, pressure rating and year of production shall be cast in the body of the fitting. Fittings shall be as manufactured by Tyler/Union, Clow Water Systems, US Pipe and Foundry or American Cast Iron Pipe. Substitutions for the specified manufacturers will not be accepted.

500-3 VALVE BOXES

Valves Boxes under this provision shall be manufactured and/or produced in the United States and shall be cast iron of suitable pattern for use with the supplied valves. Valve boxes shall be screw adjustable to lengths specified in Schedule of Prices and have covers of at least six inch diameter. The word "WATER" shall be cast on the lid.

DIVISION 600 – TAPPING SLEEVES AND VALVES

600-1 TAPPING VALVES

Tapping Valves under this provision shall be manufactured and/or produced in the United States and shall be rated for a minimum 250 psi working pressure and furnished with resilient seat in accordance with AWWA C509 or AWWA C515 except that the seat rings are to be of larger diameter to permit entry of full size tapping machine cutters. Tapping Valves shall be furnished with "O" ring stem seals, non-rising stem and shall open left (counter clockwise). The valve shall be furnished with a flange-end connection on one end and a mechanical joint end on the opposite end. The flanged end shall be in accordance with ANSI/AWWA C110/A21.10. The mechanical joint shall be in accordance with ANSI/AWWA C111/A21.11 and shall be furnished with accessories (nuts, bolts, glands and gaskets) unless noted as **W/O ACC** in the Schedule of Prices. Gaskets shall be Standard unless valves will connect to Iron Pipe Size (IPS) pipe where Transition Gaskets shall be provided instead of Standard Gaskets. Valves requiring transition gaskets will be noted in the Schedule of Prices as Mechanical Joint – Transition (MJ-T) and shall be in accordance with ANSI/AWWA C111/A21.11. Valves shall be coated in accordance with AWWA C550 and NSF 61. Manufacturer's name, pressure rating and year of production shall be cast in the body of the valve. Tapping Valves shall be as manufactured by American Flow Control, Mueller, Clow Valve and US Pipe & Foundry and shall be compatible with the Tapping Sleeve provided.

Added 9-9-13

600-2 TAPPING SLEEVES

Tapping Sleeves under this provision shall have a stainless steel body that meets or exceeds ASTM A 240 type 304 with a ductile iron flange that meets or exceeds ASTM A536 and shall be in accordance with ANSI/AWWA C223-07. The tapping sleeve shall be rated for a working pressure of 250 psi for 4" to 8" and 200 psi for 10" to 24". The flange shall be in accordance with ANSI/AWWA C110/A21.10. The sleeve shall have a full girded SBR rubber gasket that wraps completely around the pipe for the full length of the sleeve and incorporates a sealing ring at the branch outlet. The tapping sleeve shall be provided with 304 stainless steel nuts and bolts shall be and shall be furnished with a 304 stainless steel 3/4" NPT test plug for pressure testing. The sleeve shall have a built in tolerance for variances in type and class for each pipe materials as shown on the material proposal. Tapping sleeve shall be as manufactured by Romac, Powerseal or Mueller and shall be compatible with the Tapping Valve provided.

DIVISION 700 – FIRE HYDRANTS

700-1 FIRE HYDRANTS

Fire Hydrants shall be manufactured and/or produced in the United States and shall be Mueller A-423, 5-1/4" main valve opening, three way with 2 hose nozzles and 1 pumper nozzle, 6" shoe, open right with an arrow pointing to the word "open" in the opening direction, manufacturer's name and year produced shall be cast in the barrel, Chicago Thread on nozzles, color shall be yellow with the bury as specified on the Schedule of Prices. These specifications have been adopted by the City of Effingham Water and Fire Department as the Standard Fire Hydrant for the City of Effingham and alternates or substitutions will not be considered.

DIVISION 800 SPECIALTY ITEMS

800-1 TRANSITION COUPLINGS

Transition Couplings under this provision for 4" to 12" pipe shall be Romac Macro or TPS Hymax. TPS Hymax Long Body shall be provided for a Transition Coupling – Long in sizes 4" to 24". For 14" to 24" pipe, Transition Couplings shall be Large Diameter Hymax Coupling or Romac Style "400" Steel Coupling.

Added 9-9-13

PROPOSED PRODUCT SUBSTITUTION FORM

Suppliers shall provide materials for only those products and/or manufacturers specified in the Technical Specifications. Suppliers may provide a list of items below for which they propose to substitute a different product and/or manufacturer than those specified.

Suppliers understand acceptance of a Proposed Product Substitution is at the City of Effingham's option and the City may accept any or all items.

Manufacturer Name and Product	Substitute For	City Approval

 (Supplier)

 (Signature)

 (Printed Name of Signer)

 (Title)

 (Date)

Added 9-9-13

SUBMITTAL TRANSMITTAL

CITY of EFFINGHAM

DATE: _____ SUBMITTAL NO. _____

PROJECT: _____

FROM: _____ TO: City of Effingham

This is: Original submittal: ____ Revised submittal ____ Previous Submittal No. ____ No. of copies ____

SUBJECT OF SUBMITTAL:

We have verified that this submittal contains all applicable material and information required for evaluation against the technical specifications. Furthermore, we submit these items, which comply with the technical specifications.

Check One: _____ with no exceptions, _____ except for the following deviations:

NO. DEVIATIONS

SUPPLIER'S AUTHORIZING STAMP	CITY OF EFFINGHAM REVIEW STAMP

Added 9-9-13