

Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

October 31, 2012

SUBJECT: Various Routes
Project TIG-5093(161)
Section 12-00356-01-PV (Peoria)
Peoria County
Contract No. 89626
Item 079
November 9, 2012 Letting
Addendum (A)

NOTICE TO PROSPECTIVE BIDDERS:

Due to clarify information necessary to revise the following:

1. **Replaced the Schedule of Prices.**
2. **Revised sheets 1, 2, 4, 5, 22-24, 28-36, 38, 39, 42-44, 61-63, 81-83, 103-105, 118-120, 135, 148, 149, 152, 154, 167-169, 174, 187-189, 205-207, 214, 215, 234-236, 241, 262-266, 274, 275, 277-286, 300, 301, 305, 308-319, 321-324, 343, 344, 352, 362, 369, 371-374, 385, 386, 400-402, 407, 408, 411, 496-498 & 501-514.**
3. **Revised pages 2, 3, 4, 5 & 6 of the Index of Special Provisions.**
4. **Revised pages 25, 28, 30-32, 34, 37, 43, 44, 46-53, 63-67, 69-71, 73, 93 & 96 of 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 Baranzelli, P.E.
Acting Engineer of Design and Environment

A handwritten signature in black ink, appearing to read 'Ted B. Walschleger' with a small 'AE' to the right.

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

COUNTY NAME	CODE	DIST	SECTION NUMBER	PROJECT NUMBER	ROUTE
PEORIA	143	04	12-00356-01-PV (PEORIA)	TIG-5093/161/000	VARIOUS

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
A2000116	T-ACERX FREM AB 2	EACH	23.000 X	=			
A2001916	T-ACER SACR LE 2	EACH	17.000 X	=			
A2004512	T-GINKGO BIL AG 2	EACH	17.000 X	=			
A2004816	T-GLED TRI-I SK 2	EACH	5.000 X	=			
A2005016	T-GYMNOCOLA DIO 2	EACH	8.000 X	=			
A2005616	T-OSTRYA VIRG 2	EACH	17.000 X	=			
A2006516	T-QUERCUS BICOL 2	EACH	5.000 X	=			
A2007716	T-TAXODI DIS SB 2	EACH	20.000 X	=			
A2007848	T-TILIA AMER LEG 2	EACH	5.000 X	=			
A3005238	T-ZELKOVA SER GV 2	EACH	6.000 X	=			
C2C00324	S-ARONIA MELAN IB 2'C	EACH	128.000 X	=			
C2C01612	S-CORNUS SANG ARC 2'C	EACH	64.000 X	=			
C2C04668	S-PHYSO OP DM 18C	EACH	52.000 X	=			
C2C058G3	S-RHUS AROMA GL CG 3G	EACH	43.000 X	=			
C2C06724	S-ROSA PAVE DWARF 2C	EACH	70.000 X	=			

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				DOLLARS	CENTS	DOLLARS	CTS
C2C078G5	S-ROSA X KNOCK OUT 5G	EACH	26.000 X			=	
C2C10218	S-SPIREA JAP LP 18C	EACH	85.000 X			=	
C2C11604	S-VIBURN CARL COMP 2C	EACH	23.000 X			=	
C2C11752	S-VIBURN DENT CHR 2'C	EACH	15.000 X			=	
C2002636	S-EUONY ALAT COMP 3'	EACH	14.000 X			=	
D2003524	E-TAXUS X MD DN 2'	EACH	48.000 X			=	
K0012975	P PL ORNAMENT T 4" P	UNIT	6.000 X			=	
K0012990	P PL ORNAMENT T GAL P	UNIT	16.000 X			=	
K0012993	P PL ORNAMENT T 3G P	UNIT	2.000 X			=	
K1001985	IRRIGATION SLEEVES	FOOT	48.000 X			=	
K1005481	SHRED BARK MULCH 3	SQ YD	1,063.000 X			=	
LR420025	PCC PVMT 7 SPL	SQ YD	1,454.000 X			=	
XX000959	TRASH RECEPTACLES	EACH	25.000 X			=	
XX004467	BR PAV SDWK RIGID BS	SQ FT	5,870.000 X			=	
XX005428	INTERN ILLUM ST SIGN	EACH	7.000 X			=	

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
XX006429	SIDEWALK, SPECIAL	SQ FT	483.000 X	=	=	=	=
XX006739	CONCRETE PAVERS TYP A	SQ FT	12,013.000 X	=	=	=	=
XX007039	ST LIGHT ASSEM COM F1	EACH	118.000 X	=	=	=	=
XX007040	ST LIGHT ASSEM COM F2	EACH	14.000 X	=	=	=	=
XX007041	ST LIGHT ASSEM COM F3	EACH	4.000 X	=	=	=	=
XX007151	PLANTER RAILING	FOOT	4,286.000 X	=	=	=	=
XX007337	RPZ ASSEMBLY 1.5	EACH	1.000 X	=	=	=	=
XX008662	REM EXIST LIGHT POLE	EACH	36.000 X	=	=	=	=
XX008732	VAULT LID RESURFACING	L SUM	1.000 X	=	=	=	=
XX008733	ELCBL C 6 1C	FOOT	4,432.000 X	=	=	=	=
X0321158	PARK BENCHES	EACH	36.000 X	=	=	=	=
X0322917	PRO SS CONN TO EX MAN	EACH	1.000 X	=	=	=	=
X0323569	STEEL POST REMOVAL	EACH	8.000 X	=	=	=	=
X0326981	ENGINEERD SOIL F P SPL	CU YD	596.000 X	=	=	=	=
X0327426	BRICK PAVER BANDING	SQ FT	9,610.000 X	=	=	=	=

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				DOLLARS	CENTS	DOLLARS	CTS
X0327427	DEC CONC BLK RET WALL	SQ FT	390.000 X				
X0327428	ST LIGHT ASSEM COM F4	EACH	5.000 X				
X0327429	PVC CL 200 PIPE 1.5	FOOT	4,513.000 X				
X0327430	PVC CL 200 PIPE 2	FOOT	4,867.000 X				
X0327431	IRR SYSTEM CONTROLLER	EACH	1.000 X				
X0327432	IRR SYSTEM PT OF CONN	EACH	1.000 X				
X0327433	IRR CONTROL WIRE 2" C	FOOT	1,737.000 X				
X0327434	IRR BED .9 GPH	SQ FT	9,219.000 X				
X0327435	IRR OPERAT INDICATOR	EACH	95.000 X				
X3510407	AGG BASE CSE CA-7	TON	1,299.000 X				
X3510416	AGG BASE CSE CA-16	TON	289.000 X				
X3510704	AGG BASE CSE FA-4	TON	38.000 X				
X4200805	INTERSECTION INLAY	SQ FT	248.000 X				
X4240420	PC CONC SIDEWALK 4 SP	SQ FT	70,932.000 X				
X4241420	POROUS PCC SIDEWALK 4	SQ FT	3,035.000 X				

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				DOLLARS	CENTS	DOLLARS	CTS
X4401198	HMA SURF REM VAR DP	SQ YD	14,932.000 X	=		=	
X5030225	CONC STRUCT SPL	CU YD	230.000 X	=		=	
X5537800	SS CLEANED 12	FOOT	34.000 X	=		=	
X5619310	VALVE BOX ASSY DZ	EACH	12.000 X	=		=	
X5619320	VALVE BOX ASSY QC	EACH	24.000 X	=		=	
X5619330	VALVE BOX ASSY AVR	EACH	95.000 X	=		=	
X5619340	VALVE BOX ASSY MLF	EACH	95.000 X	=		=	
X6011605	PIPE DRAINS 4 SPL	FOOT	3,604.000 X	=		=	
X6014910	PLANTER DRAIN COMP	EACH	95.000 X	=		=	
X6020082	INLETS TG-1	EACH	77.000 X	=		=	
X6021065	INLETS TG-1 SPL	EACH	1.000 X	=		=	
X6021814	INL-MN G-1 4D	EACH	8.000 X	=		=	
X6021816	INL-MN G-1 6D	EACH	2.000 X	=		=	
X6021824	INL-MN G-1 4D SPL	EACH	1.000 X	=		=	
X6022930	MAN TA 5 DIA SPL F&G	EACH	1.000 X	=		=	

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
X6025602	MAN ADJ F&G SPL	EACH	4.000 X	=		=	
X6026056	SAN MH ADJ NEW T1F CL	EACH	4.000 X	=		=	
X6028000	MAN RECONST SPL	EACH	5.000 X	=		=	
X6062400	CONC GUTTER SPL	FOOT	1,792.000 X	=		=	
X7010216	TRAF CONT & PROT SPL	L SUM	1.000 X	=		=	
X8040102	ELECT SERV INSTALL SP	EACH	3.000 X	=		=	
X8050135	SERV INSTALL TY C MOD	EACH	3.000 X	=		=	
X8211175	LUM LED HM 175W	EACH	7.000 X	=		=	
X8710024	FOCC62.5/125 MM12SM24	FOOT	2,093.000 X	=		=	
Z0007125	HANDRAIL REMOVAL	EACH	1.000 X	=		=	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.000 X	=		=	
Z0019524	DRYWELL 4 DIA SPL F&G	EACH	3.000 X	=		=	
Z0019554	DRYWELL TG-1 4 DIA	EACH	24.000 X	=		=	
Z0022800	FENCE REMOVAL	FOOT	4.000 X	=		=	
Z0030850	TEMP INFO SIGNING	SQ FT	375.000 X	=		=	

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				DOLLARS	CENTS	DOLLARS	CTS
Z0033068	TS BATT BACKUP SYSTEM	EACH	3.000 X	=		=	
Z0034105	MATL TRANSFER DEVICE	TON	2,818.000 X	=		=	
Z0036900	PARK METERS REMOVED	EACH	31.000 X	=		=	
Z0042200	PC CONC PAVT SURF REM	SQ YD	430.000 X	=		=	
Z0056608	STORM SEW WM REQ 12	FOOT	482.000 X	=		=	
Z0056610	STORM SEW WM REQ 15	FOOT	71.000 X	=		=	
Z0056648	SS 1 WAT MN 12	FOOT	191.000 X	=		=	
Z0056668	SS 2 WAT MN 12	FOOT	1,722.000 X	=		=	
Z0075496	CONC RETAIN WALL REM	FOOT	90.000 X	=		=	
20100110	TREE REMOV 6-15	UNIT	140.000 X	=		=	
20200100	EARTH EXCAVATION	CU YD	3,080.000 X	=		=	
20201200	REM & DISP UNS MATL	CU YD	250.000 X	=		=	
20400800	FURNISHED EXCAVATION	CU YD	328.000 X	=		=	
20700110	POROUS GRAN EMBANK	TON	100.000 X	=		=	
21001000	GEOTECH FAB F/GR STAB	SQ YD	300.000 X	=		=	

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				DOLLARS	CENTS	DOLLARS	CTS
21101615	TOPSOIL F & P 4	SQ YD	4,511.000 X	=		=	
25200100	SODDING	SQ YD	4,511.000 X	=		=	
28000510	INLET FILTERS	EACH	125.000 X	=		=	
31100100	SUB GRAN MAT A	TON	2,310.000 X	=		=	
31101000	SUB GRAN MAT B	TON	4,421.000 X	=		=	
35100100	AGG BASE CSE A	TON	1,532.000 X	=		=	
35501316	HMA BASE CSE 8	SQ YD	245.000 X	=		=	
35650500	BASE CSE WID 10	SQ YD	60.000 X	=		=	
40201000	AGGREGATE-TEMP ACCESS	TON	696.000 X	=		=	
40600100	BIT MATLS PR CT	GALLON	852.000 X	=		=	
40600115	P BIT MATLS PR CT	GALLON	2,220.000 X	=		=	
40600837	P LEV BIND MM N70	TON	89.000 X	=		=	
40603080	HMA BC IL-19.0 N50	TON	278.000 X	=		=	
40603230	P HMA BC IL19.0 N50	TON	317.000 X	=		=	
40603560	P HMA SC "E" N50	TON	793.000 X	=		=	

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				DOLLARS	CENTS	DOLLARS	CTS
40603565	P HMA SC "E" N70	TON	2,111.000 X	=		=	
42000200	PCC PVT 7	SQ YD	283.000 X	=		=	
42001300	PROTECTIVE COAT	SQ YD	4,213.000 X	=		=	
42300400	PCC DRIVEWAY PAVT 8	SQ YD	2,492.000 X	=		=	
42400100	PC CONC SIDEWALK 4	SQ FT	70,721.000 X	=		=	
42400800	DETECTABLE WARNINGS	SQ FT	1,175.000 X	=		=	
44000100	PAVEMENT REM	SQ YD	18,678.000 X	=		=	
44000157	HMA SURF REM 2	SQ YD	1,781.000 X	=		=	
44000163	HMA SURF REM 3 1/2	SQ YD	273.000 X	=		=	
44000200	DRIVE PAVEMENT REM	SQ YD	10,441.000 X	=		=	
44000300	CURB REM	FOOT	2,285.000 X	=		=	
44000500	COMB CURB GUTTER REM	FOOT	10,291.000 X	=		=	
44000600	SIDEWALK REM	SQ FT	114,083.000 X	=		=	
44200909	CL B PATCH T3 6	SQ YD	41.000 X	=		=	
44200911	CL B PATCH T4 6	SQ YD	134.000 X	=		=	

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				DOLLARS	CENTS	DOLLARS	CTS
44200970	CL B PATCH T2 10	SQ YD	7.000 X				
44200976	CL B PATCH T4 10	SQ YD	396.000 X				
44200998	CL B PATCH T3 12	SQ YD	20.000 X				
44201000	CL B PATCH T4 12	SQ YD	472.000 X				
44201031	CL B PATCH T2 15	SQ YD	140.000 X				
44201035	CL B PATCH T3 15	SQ YD	39.000 X				
44201037	CL B PATCH T4 15	SQ YD	2,721.000 X				
44201353	CL C PATCH T2 10	SQ YD	10.000 X				
44201377	CL C PATCH T2 12	SQ YD	49.000 X				
44201415	CL C PATCH T2 15	SQ YD	28.000 X				
44201419	CL C PATCH T3 15	SQ YD	15.000 X				
50901760	PIPE HANDRAIL	FOOT	141.000 X				
54248510	CONCRETE COLLAR	CU YD	0.400 X				
550A0050	STORM SEW CL A 1 12	FOOT	1,021.000 X				
550A0340	STORM SEW CL A 2 12	FOOT	1,049.000 X				

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				DOLLARS	CENTS	DOLLARS	CTS
550A0430	STORM SEW CL A 2 30	FOOT	84.000 X	=		=	
55100400	STORM SEWER REM 10	FOOT	50.000 X	=		=	
55100500	STORM SEWER REM 12	FOOT	705.000 X	=		=	
55100700	STORM SEWER REM 15	FOOT	16.000 X	=		=	
55100900	STORM SEWER REM 18	FOOT	4.000 X	=		=	
55101200	STORM SEWER REM 24	FOOT	51.000 X	=		=	
55101400	STORM SEWER REM 30	FOOT	43.000 X	=		=	
59300100	CONTR LOW-STRENG MATL	CU YD	1,926.000 X	=		=	
60218300	MAN TA 4 DIA T1F OL	EACH	1.000 X	=		=	
60218400	MAN TA 4 DIA T1F CL	EACH	28.000 X	=		=	
60221100	MAN TA 5 DIA T1F CL	EACH	5.000 X	=		=	
60223800	MAN TA 6 DIA T1F CL	EACH	5.000 X	=		=	
60224446	MAN TA 7 DIA T1F CL	EACH	1.000 X	=		=	
60234200	INLETS TA T1F OL	EACH	6.000 X	=		=	
60240215	INLETS TB T1F CL	EACH	5.000 X	=		=	

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
60255500	MAN ADJUST	EACH	21.000 X	=		=	
60255800	MAN ADJ NEW T1F CL	EACH	2.000 X	=		=	
60260400	INLETS ADJ NEW T1F CL	EACH	2.000 X	=		=	
60500040	REMOV MANHOLES	EACH	10.000 X	=		=	
60500060	REMOV INLETS	EACH	53.000 X	=		=	
60600605	CONC CURB TB	FOOT	1,392.000 X	=		=	
60603800	COMB CC&G TB6.12	FOOT	12,952.000 X	=		=	
60605000	COMB CC&G TB6.24	FOOT	82.000 X	=		=	
60608300	COMB CC&G TM2.12	FOOT	426.000 X	=		=	
66900200	NON SPL WASTE DISPOSL	CU YD	255.000 X	=		=	
66900450	SPL WASTE PLNS/REPORT	L SUM	1.000 X	=		=	
66900530	SOIL DISPOSAL ANALY	EACH	1.000 X	=		=	
67000400	ENGR FIELD OFFICE A	CAL MO	24.000 X	=		=	
67100100	MOBILIZATION	L SUM	1.000 X	=		=	
70106800	CHANGEABLE MESSAGE SN	CAL MO	24.000 X	=		=	

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				DOLLARS	CENTS	DOLLARS	CTS
70300100	SHORT TERM PAVT MKING	FOOT	4,300.000 X	=			
70300510	PAVT MARK TAPE T3 L&S	SQ FT	63.000 X	=			
70300520	PAVT MARK TAPE T3 4	FOOT	26,537.000 X	=			
70300570	PAVT MARK TAPE T3 24	FOOT	514.000 X	=			
70301000	WORK ZONE PAVT MK REM	SQ FT	5,832.000 X	=			
78000200	THPL PVT MK LINE 4	FOOT	6,519.000 X	=			
78000500	THPL PVT MK LINE 8	FOOT	10,459.000 X	=			
78000600	THPL PVT MK LINE 12	FOOT	281.000 X	=			
78004210	PREF PL PM TB INL L4	FOOT	900.000 X	=			
78006100	PREF THPL PM LTR-SYM	SQ FT	553.000 X	=			
78006140	PREF THPL PM LINE 8	FOOT	2,813.000 X	=			
78006180	PREF THPL PM LINE 24	FOOT	433.000 X	=			
78300100	PAVT MARKING REMOVAL	SQ FT	3,783.000 X	=			
81028350	UNDRGRD C PVC 2	FOOT	14,028.000 X	=			
81028370	UNDRGRD C PVC 3	FOOT	190.000 X	=			

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
81028390	UNDRGRD C PVC 4	FOOT	533.000 X	=		=	
81400100	HANDHOLE	EACH	22.000 X	=		=	
81400700	HANDHOLE PCC	EACH	12.000 X	=		=	
81400720	DBL HANDHOLE PCC	EACH	3.000 X	=		=	
81702130	EC C XLP USE 1C 6	FOOT	37,955.000 X	=		=	
81702140	EC C XLP USE 1C 4	FOOT	5,701.000 X	=		=	
82500370	LT CONT BASEM 240V200	EACH	3.000 X	=		=	
83600200	LIGHT POLE FDN 24D	FOOT	590.000 X	=		=	
83600300	LIGHT POLE FDN 30D	FOOT	35.000 X	=		=	
85700200	FAC T4 CAB	EACH	3.000 X	=		=	
87301245	ELCBL C SIGNAL 14 5C	FOOT	6,046.000 X	=		=	
87301255	ELCBL C SIGNAL 14 7C	FOOT	857.000 X	=		=	
87301515	ELCBL C LEAD 18 3PR	FOOT	1,299.000 X	=		=	
87502510	TS POST GALVS 17	EACH	9.000 X	=		=	
87702840	STL COMB MAA&P 22	EACH	1.000 X	=		=	

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VARIOUS
 12-00356-01-PV (PEORIA)
 PEORIA

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF PRICES
 CONTRACT NUMBER - 89626

ECMS002 DTGECM03 ECMR003 PAGE 15
 RUN DATE - 10/30/12
 RUN TIME - 183046

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
87702860	STL COMB MAA&P 26	EACH	2.000 X	=		=	
87702870	STL COMB MAA&P 28	EACH	1.000 X	=		=	
87702910	STL COMB MAA&P 36	EACH	1.000 X	=		=	
87702950	STL COMB MAA&P 44	EACH	1.000 X	=		=	
87702960	STL COMB MAA&P 46	EACH	1.000 X	=		=	
87800100	CONC FDN TY A	FOOT	27.000 X	=		=	
87800200	CONC FDN TY D	FOOT	11.000 X	=		=	
87800400	CONC FDN TY E 30D	FOOT	40.000 X	=		=	
87800415	CONC FDN TY E 36D	FOOT	37.000 X	=		=	
87900200	DRILL EX HANDHOLE	EACH	1.000 X	=		=	
88040070	SH P LED 1F 3S BM	EACH	12.000 X	=		=	
88040090	SH P LED 1F 3S MAM	EACH	10.000 X	=		=	
88040110	SH P LED 1F 4S BM	EACH	2.000 X	=		=	
88040120	SH P LED 1F 4S MAM	EACH	2.000 X	=		=	
88102717	PED SH LED 1F BM CDT	EACH	22.000 X	=		=	




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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
88200110	TS BACKPLATE LOUVERED	EACH	26.000 X	=			
88500100	INDUCTIVE LOOP DETECT	EACH	10.000 X	=			
88600100	DET LOOP T1	FOOT	2,332.000 X	=			
88800100	PED PUSH-BUTTON	EACH	22.000 X	=			
89502375	REMOV EX TS EQUIP	EACH	7.000 X	=			












TOTAL \$















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

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This work shall consist of an elevation adjustment of the existing frame and grate to the finish grade of the project improvements. This work shall be measured and paid for at the contract unit price bid per each item to be adjusted in accordance with Sections 602 of the Standard Specifications except as modified herein.

HDPE and Recycled Rubber riser and adjusting rings will not be allowed on this contract. In addition, only solid and rigid, one-piece assembly adjusting rings fabricated entirely from gray or ductile iron will be allowed. Adjustable band adjusting rings will not be allowed on this contract. Any adjusting ring to be utilized on this project shall be reviewed and approved by the Engineer and City at the Pre-Construction Meeting. The contract unit price bid per each for the respective adjustment items shall include all work required completing the adjustment items and no additional compensation will be allowed.

DRYWELL, TYPE G-1, 4' DIAMETER

1 This work shall consist of furnishing and installing Drywells, Type G-1, 4' diameter including all equipment, labor, and materials for the construction of DRYWELL, TYPE G-1, 4' DIAMETER in accordance with Section 602 and 606 of the Standard Specifications and the details in the plans. Frames and Grates shall be cast iron Neenah R-3246-A with Type R Diagonal Reversible grate, or approved equal.

Add "DRYWELL, TYPE G-1, 4' DIAMETER" to Article 602.16 of the Standard Specifications. Delete the second and third paragraph in Article 602.12. Delete the first paragraph in Articles 606.14 and 606.15.

Prior to backfilling, the bottom 8' of the drywell shall be wrapped in extruded HDPE netting with 1/2" nominal openings similar to OB2530, manufactured by Industrial Netting Inc., or approved equivalent. Drywell shall be backfilled with drainage rock, CA-7 in lifts not exceeding 12" in depth and shall be compacted by mechanical means to the satisfaction of the Engineer. Geo-textile drainage fabric meeting the standard detailed in Section 1080.05 of the Standard Specifications, in locations shown in the detail, shall also be included in this work. After setting the drywell, a filter fabric shall be installed in the interior on the bottom of drywell and on the wall of the lower two feet of the interior of the barrel to prevent sedimentation from construction activities. The Contractor shall be responsible for periodic inspection, maintenance, and removal of silt collected on the fabric to the satisfaction of the Engineer. All filter fabric shall be removed from the interior of the drywell by the contractor at direction of the Engineer.

BASIS OF PAYMENT:

Payment for transitional Combination Concrete Curb and Gutter will be included in "DRYWELL, TYPE G-1, 4' DIAMETER" in accordance with details shown in the plans.

This work, as indicated above, including netting, fabric, and drainage rock, CA-7 shall be paid at the contract unit price per each for DRYWELL, TYPE G-1, 4' DIAMETER.

DRYWELL, 4' DIAMETER, SPECIAL FRAME AND GRATE

1 This work shall consist of furnishing and installing Drywells, Special Frame and Grate of the type and diameter specified, including all equipment, labor, and materials for the construction of DRYWELL, SPECIAL FRAME AND GRATE with Section 602 of the Standard Specifications.

Frames and Grates shall be Neenah R-3501-E2 Frame with Type C Grate, or approved equal.

Add "DRYWELL, 4' DIAMETER, SPECIAL FRAME AND GRATE" to Article 602.16 of the Standard Specifications. Delete the second and third paragraph in Article 602.12.

Prior to backfilling, the bottom 8' of the drywell shall be wrapped in extruded HDPE netting with 1/2" nominal openings similar to OB2530, manufactured by Industrial Netting Inc., or approved equivalent. Drywell shall be backfilled with drainage rock, CA-7 in lifts not exceeding 12" in depth and shall be compacted by mechanical means to the satisfaction of the Engineer. Geo-textile drainage fabric meeting

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6. Polyvinyl Chloride (PVC) conforming to ANSI/AWWA C905. A minimum of wall thickness of DR 26 is required for all pipe sizes (Note: The lower the DR number, the higher the wall thickness and pressure rating). It shall be made from PVC compound meeting ASTM D 1784, Class 12454.

Joining of plastic pipe shall be by push-on joint, solvent welded joint, heat welded joint, flanged joint, or threaded joint, in accordance with the pipe manufacturer's instructions and industry standards. Special precautions shall be taken to insure clean, dry contact surfaces when making solvent or heat welded joints. Adequate setting time shall be allowed for maximum strength.

Elastomeric seals (gaskets) used for push-on joints shall comply with ASTM Standard F477.

Solvent cement shall be specific for the plastic pipe material and shall comply with ASTM D 2564 (PVC) or ASTM F 493 (CPVC) and be approved by NSF.

For water-sewer line crossings only, storm sewer meeting water main requirements may also be constructed of reinforced concrete sewer pipe. The pipe shall conform to ASTM C 76 with a joint and rubber gasket meeting ASTM C 443. The joint shall meet the leakage performance test in ASTM C 443. The pipe manufacturer must demonstrate to Illinois Department of Transportation personnel that the joints pass the leakage performance test prior to installation of the pipe. The pipe class shall meet the requirements of Section 550 of the *Standard Specifications for Road and Bridge Construction*.

This work will be measured and paid for at the contract unit price per foot (meter) for STORM SEWER (WATER MAIN REQUIREMENTS) of the diameter specified.



STORM SEWER (SPECIAL) 48 INCH

~~This work shall be completed in accordance with the applicable portions of Sections 602 of the Standard Specifications and details in the plans. This work shall consist of installing a 48 inch Storm Sewer Special to the lines and grades as shown in the plans. This storm sewer pipe shall be made of ductile iron and will replace an existing section of brick storm sewer structure between two new storm sewer structures.~~

~~When required, this work shall consist of furnishing equipment, labor and material to storm sewer shall be connected to an existing drainage structures. The Contractor shall exercise proper care so as not damage drainage structures when cutting holes for pipe drains or underdrains. Storm Sewers shall be grouted in place. The method and materials used to cut holes in drainage structures and grout pipes shall be approved by the Engineer.~~

~~This work will be measured and paid for at the contract unit price per each for STORM SEWER (SPECIAL) 48 INCH, and no additional compensation will be allowed.~~

STORM SEWERS TO BE CLEANED, 12"

This work shall consist of removing all debris from the designated storm sewer pipe so that the pipe can convey water to its capacity.

BASIS OF PAYMENT:

This work will be paid for at the contract unit price per foot for STORM SEWERS TO BE CLEANED, 12".

PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE

This work shall be completed in accordance with the applicable portions of Sections 602 of the Standard Specifications and details in the plans.

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This work will be paid for at the contract unit price per square foot for SIDEWALK, SPECIAL and shall include all labor, material, and equipment necessary to perform the work.

Handrail for ramps shall be paid for separate per foot as PIPE HANDRAIL as shown in the plan details.

 | ~~INCIDENTAL HOT MIX ASPHALT SURFACING~~

~~Locations of incidental hot mix asphalt surfacing as shown on the plans and as directed by the Engineer shall be constructed according to Section 408 of the Standard Specifications except as specified herein.~~

~~Incidental Hot Mix Asphalt will be placed behind the back of curb as shown in the plans and will be used to stabilize the cut and fill slopes along Commercial Street between Station 1708+00 and +/- 1712+50 at a depth of two (2) inches.~~

~~Add the following to Article 408:~~

~~The priming shall be applied according to Article 406.05 by methods approved by the Engineer. Aggregate base preparation shall be performed to the satisfaction of the Engineer. The bituminous prime material which will be subject to traffic shall be covered immediately following its application with fine aggregate as outlined in Article 406.06.a-1.~~

~~The hot mix asphalt mixture shall be Polymerized Hot Mix Asphalt Surface Course, Mix "D", N50. The mixture may be spread and finished by approved hand methods or a finishing machine approved by the Engineer. Thickness shall match the existing pavement or as directed by the Engineer.~~

~~Revise Article 408.04 to read as follows:~~

~~Method of Measurement: Aggregate for covering the prime coat will not be paid for separately but shall be included in this work. Preparation of the aggregate base will not be paid for separately but shall also be included in this work.~~

~~Revise Article 408.05 to read as follows:~~


~~BASIS OF PAYMENT:~~

~~All of this work including labor, materials, and equipment will be paid for at the contract unit price per ton for INCIDENTAL HOT MIX ASPHALT SURFACING.~~

CLASS B PATCHES / CLASS C PATCHES

This work shall consist of placement of pavement patching with the class and type of patch specified at designated locations in accordance with Section 442 of the Standard Specifications.

The proposed pavement patching shall be constructed in accordance with Section 442 of the Standard Specifications with the exception of Section 442.05 (Pavement Removal). Pavement removal along proposed curb line patches shall be included in the pay item for PAVEMENT REMOVAL. Pavement removal for cross road pavement patching related to storm sewer work shall be included in the cost of the specified storm sewer pipe.

 All saw cutting will not be paid for separately, but shall be included in the contract unit price for the specific type of patch. The dowels and tie bars for Class B Patches shall not be paid for separately, but shall be included in the contract unit price for CLASS B PATCHES.

BASIS OF PAYMENT:

This work shall be paid at the contract unit price per square yard for CLASS B PATCHES or CLASS C PATCHES, of the type and thickness specified.

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Warehouse District Improvements

HOT-MIX ASPHALT SURFACE COURSE SURFACE TESTS

Effective: November 1, 2003

Revised January 1, 2007

The Contractor shall provide a person to operate the straight edge in accordance with Article 406.11 of the Standard Specifications and communicate with IDOT personnel to minimize the surface course bumps. If surface course bumps cannot be removed at this time, IDOT personnel will record the locations and provide deductions as stated in Article 406.11.

PORTLAND CEMENT CONCRETE PAVEMENT 7" (SPECIAL)

This work shall consist of constructing a full depth concrete pavement, on a prepared subbase in accordance with Section 420, at locations and as detailed in the plans.

The pavement shall be doweled to both the adjacent curb and gutter section and the concrete gutter (special) section.

Weep holes, as shown in the plans, may be performed during construction or drilled after the concrete has cured. Weep holes shall be filled with pea gravel meeting CA 18 gradation requirements per Article 1004.

METHOD OF MEASUREMENT:

This work will be measured for payment in place and the area computed in square feet.

BASIS OF PAYMENT:

This work will be paid for at the contract unit price per square foot for PORTLAND CEMENT CONCRETE PAVEMENT 7" (SPECIAL) and shall include all labor, material, and equipment necessary to perform the work.

PCC AUTOMATIC BATCHING EQUIPMENT

Effective April 23, 2010

Portland cement concrete provided shall be produced from batch plants that conform to the requirements of Article 1103.03 (a) and (b) of the Standard Specifications for Road and Bridge Construction. Semi-automatic batching will not be allowed.

In addition, the batching plant shall be a computerized plant interfaced with a printer and shall print actual batch weights, added water, tempering water, mixing time, and amount of each additive per batch. At the discretion of the Engineer, archived electronic versions of batch proportions will be acceptable. Truck delivery tickets will still be required as per Article 1020.11 (a)(7).



COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.18 REMOVED FROM CONTRACT

Effective May 30, 2012

This work shall consist of constructing concrete curb and gutter, of the type and size as specified on the plans in accordance with Section 606 of the Standard Specifications.

BASIS OF PAYMENT:

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This work will be measured and paid for at the contract unit price per foot for COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.18.

BRICK PAVERS (ROADWAY)

All paving bricks shall be in accordance with Article 1041.03 and as detailed here in.

Materials

Paver style, size, color, and requirements will be as described for each Concrete Paver Type.

Submittals

- Paver manufacturer's material test data certifying pavers comply with specification.
- Paver samples representing actual size, shape, and color range.
- Paver contractor's methods and quality control plan/statements identifying milestones and procedures to receive approvals and to assure adherence to this specification. This must be tailored to this specific project with actual dates for mockups, approvals and quality control meetings.
- Joint filler sand gradation report.

Delivery, Storage & Handling

1. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers packaging with identification labels intact.
 - a) Coordinate delivery and paving schedule to minimize interference with normal use of buildings adjacent to paving.
 - b) Deliver concrete pavers to the site in steel banded, plastic banded or plastic wrapped packaging capable of transfer by fork lift or clamp lift.
 - c) Unload pavers at job site in such a manner that no damage occurs to the product.
2. Storage and Protection: Store materials protected such that they are kept free from mud, dirt, and other foreign materials.
 - a) Cover bedding sand and joint sand with waterproof covering if needed to prevent exposure to rainfall or removal by wind. Secure the covering in place.

Quality Assurance

1. Quality Control Plan
 - a) The installer and manufacturer shall establish, provide and maintain a quality control plan. The quality control plan shall provide reasonable assurance that the materials and completed construction submitted for acceptance will conform to the contract requirements. Although guidelines are established and certain requirements are specified, they are a minimum and the installer and manufacturer shall assume full responsibility for meeting all requirements.
 - b) The installer and manufacturer shall agree upon a method for measuring the clusters at the factory and in the field. That method shall be submitted in writing to the owner for approval.
 - c) The Quality Control Plan shall contain at a minimum, but not limited to, the following elements:
 - i. The manufacturer's quality control procedures.
 - ii. The manufacturer's production records showing at a minimum the date of manufacture, a mix design designation, mold number, mold cycles, and sequential pallet numbers. Copies of such records shall be made available to the owner upon request.
 - iii. A description of the anticipated growth (due to mold wear) in the cluster size and a plan for managing the growth so as to not interfere with placement by paving machine(s), if mechanically installed.

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- The manufacturer shall have sufficient production capacity and established quality control procedures to produce, transport, and deliver the required number of pavers with the quality specified, without causing a delay to the work.
 - The manufacturer shall have suitably experienced personnel and a management capability sufficient to produce the number of quality pavers as depicted on the contract plans and as specified herein.
- ii. Paver Installer's Qualifications
- Installer shall provide installation history, including references in writing with contact information, demonstrating to the satisfaction of the owner their ability to perform the paver installation and related work indicated in the plans and specifications.
 - The installer shall have suitably experienced personnel and a management capability sufficient to execute the work shown on the contract plans and specified herein.
 - The installer's foreman shall demonstrate, including references, a minimum of 5 years experience in the installation of unit paver systems similar in size and nature to this project.

Installation Conditions

- Do not install pavers, sand, or asphalt setting bed during heavy rain or snowfall.
- Do not install pavers, sand, or asphalt over frozen aggregate base materials.
- Do not install frozen sand or saturated sand.
- Do not install concrete pavers on frozen or saturated sand.

CONCRETE PAVERS, TYPE A

This work shall consist of constructing and installing clay pavers in an asphalt setting bed as detailed here in and at locations shown on the plans or as directed by the Engineer. See BRICK PAVERS (ROADWAY) for information on Submittals, Delivery, Storage, Handling, Quality Assurance, and Installation Requirements for brick pavers.

MATERIALS

PAVERS



1. Shall consist of the following for Style, Size and Color or approved equal:
2. Crestline molded clay brick paver as produced by the Belden Brick Company
3. Dutch Chamfered Edge
4. Victorian Color
5. 2 3/4" x 4" x 8" bricks
6. Performance Requirements
7. Comply with ADA and PROWAG regulations.
8. Compressive Strength: Minimum 8,800 PSI individual and 10,000 PSI for the Average of 5 per ASTM C 1272-07F (Heavy Vehicular)
9. Flexural Strength: Minimum 600 PSI
10. Water Absorption: 5% to 6% ASTM 936
11. Freeze Thaw: Less than 1% loss of dry weight (Section 8 of ASTM C-67)
12. Size: ±4" x ±8" (nominal) x thickness varies depending on manufacturer.
13. Abrasion Index: Max 0.11 per ASTM C 1272-07F (Heavy Vehicular)

ASPHALT SETTING BED AGGREGATE

1. Provide Asphalt Setting Bed Aggregate as follows:
 - a) Washed, clean, non-plastic, free from deleterious or foreign matter, symmetrically shaped, natural or manufactured from crushed rock.

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6. Remove excess sand as directed by the manufacturer of the joint sand stabilizer and as directed by the Engineer.
7. Surface shall be broom cleaned after removal of excess joint sand. Mechanical sweeping or pressure washing of the pavers will not be allowed to avoid damaging the joint sand.
8. Final joints will be from 0" to a maximum of 1/16" for concrete pavers.

FIELD QUALITY CONTROL

1. The final surface tolerance from grade elevations shall not deviate more than $\pm 3/16$ inch under a 10 foot straightedge.
2. Check final surface elevations for conformance to drawings.
3. The surface elevation of pavers shall be 1/8 inch to 1/4 inch above adjacent drainage inlets, concrete collars or channels.
4. Lippage: No greater than 1/8 inch difference in height between adjacent pavers.

CLEANING

1. Clean concrete pavers in accordance with the manufacturer's written recommendations.
2. Sweep excess sand from paved surfaces and remove from site.
3. Remove all excess materials and debris from site.

PROTECTION

1. After work in this section is complete, the Contractor shall be responsible for protecting work from damage due to subsequent construction activity on the site including paving operations immediately adjacent to this work.

METHOD OF MEASUREMENT:

This work will be measured for payment in place and the area computed in square feet.

BASIS OF PAYMENT:

This work shall be paid for at the contract unit price per square foot for CONCRETE PAVERS, TYPE A and shall include all required labor, materials, and equipment.

BRICK PAVER SIDEWALK ON RIGID BASE

This work shall consist of constructing and installing crosswalks composed of clay pavers in a full depth concrete tray, on a prepared subbase as detailed here in and at locations shown on the plans or as directed by the Engineer. See BRICK PAVERS (ROADWAY) for information on Submittals, Delivery, Storage, Handling, Quality Assurance, and Installation Requirements for brick pavers.

MATERIALS

FULL DEPTH CONCRETE TRAY

1. Materials for the Full Depth Concrete Tray shall be in accordance with Articles 420, 1020, and 1006.10 of the standard specifications.



CLAY PAVERS

1. Shall consist of the following for Style, Size and Color or approved equal:
 - a) Crestline molded clay brick paver as produced by the Belden Brick Company
 - b) Dutch Chamfered Edge
 - c) Victorian Color
 - d) 2 3/4" x 4" x 8" bricks
2. Performance Requirements
 - a) Comply with ADA regulations.
 - b) Compressive Strength: Minimum 8,800 PSI individual and 10,000 PSI for the Average of 5 per ASTM C 1272-07F (Heavy Vehicular)
 - c) Flexural Strength: Minimum 600 PSI

STREETSCAPE SPECIAL PROVISIONS

TOPSOIL FURNISH AND PLACE, 4"

This work shall consist of furnishing and placing topsoil and shall be performed in accordance with Section 211 of the Standard Specifications except as modified herein. Revise Article 211.07(b) to read: In cut and fill sections, all disturbed areas not improved with pavement, sidewalks or shoulders will require 4 inches of imported topsoil. Contractor shall have one soil test conducted per site the topsoil is imported from. The test shall consist of an Illinois Department of Highways Textural Classification, organic content percentage, pH level, and nutrient levels. Submit the soil test results a minimum of 60 days prior to the start of work. Do not proceed without written approval of the owner.

All costs associated with placing Topsoil in the areas designated on the plans or obtaining and placing topsoil from outside the right-of-way if required as determined in the field will be paid for at the contract unit price bid per square yard for TOPSOIL FURNISH AND PLACE, 4".

SODDING

This work shall consist of preparing the ground surface and furnishing, transporting, and placing sod and other materials required in the sodding operations. All work shall be performed in accordance with Section 252 of the "Standard Specifications for Road and Bridge Construction." Fertilizer requirements as follow shall be included in the contract unit price per square yard for Sodding, and no additional compensations shall be allowed.

The sod shall be a minimum of a 3 bluegrass mixture. Submit the complete mix breakdown for review and approval by the Landscape Architect a minimum of 72 hours prior to delivery.

Fertilizer nutrients shall have a mixture of ten (10%) percent nitrogen, ten (10%) percent phosphoric acid, and ten (10%) percent water soluble potash, or any other approved mixture having the 10-10-10 ratio requirement, and shall be applied at such a rate that each acre to be sodded shall receive a total of 180 pounds of fertilizer nutrient. Submit a cut sheet from the fertilizer manufacture for review and approval by the Landscape Architect a minimum of 72 hours prior to delivery.

This work shall be paid for at the contract unit price bid per square yard for SODDING, and shall be payment in full for all material, labor, tools and equipment required to complete this item of work, as specified.

ENGINEERED SOIL FURNISH AND PLACE (SPECIAL)



This work shall consist of furnishing and installing Engineered Soil Furnish and Place (Special).

The engineered soil shall consist of 2:1 mixture of coarse sand to compost, based on volume.

The coarse sand shall meet the specifications of an FA1 in accordance with Section 1003 of the Standard Specifications. The preferred sand component shall consist at least 95% SiO₂. Manufactured sand or stone dust is not allowed. The sand shall be washed and drained to remove clay and silt prior to mixing.

The compost shall have a particle size gradation in which 98% passes through a 0.75-inch screen; contain less than 1% combined glass, metal and plastic; have at least 40% organic matter and less than 60% ash; a carbon to nitrogen ration of 10-20:1; a pH between 6-8; electrical conductivity below 10 dSm⁻¹; and moisture content between 35% and 50% by weight.

The engineered soil mix shall be mixed off-site in a dedicated soil mixing facility. It shall be free of rocks, stumps, roots, brush or other material over 1 inch in diameter. No other materials shall be mixed with the

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soil that may be harmful to plant growth or prove a hindrance to planting, infiltration or maintenance. The engineered soil shall have a pH between 5.5 and 6.5 and have adequate nutrients to support plant growth. The blended engineered soil shall have a minimum laboratory hydraulic conductivity per ASTM D2434 of 7 inches per hour.

Samples of the engineered soil shall be taken for every 50 CY of blended soil. A certified laboratory analysis shall be submitted to the engineer indicating compliance with the material specifications above. Similarly, a laboratory test of the permeability of the engineered soil sample shall be conducted to ASTM D2434 and submitted to the engineer a minimum of 14 days prior to installation.

Engineered soil shall be placed in planter boxes as shown in the details. Excavation of the planter boxes for placement of the Engineered Soil Furnish and Place (Special) shall be paid for separately under Concrete Structures (Special). Soil shall be placed in 10-inch lifts and compacted by periodic wetting (0.3 gal/SF), but not jetting. Vibratory plate-style compactors are prohibited for use in compacting the engineered soils. Construction traffic shall be prohibited from driving on the engineered soils once placed in the planter boxes. Once placed, Contractor shall be responsible for prohibiting the deposition of silt or fines from adjacent construction activities through the use of filter fabric barriers or other means until acceptance by the Owner.

Upon placement of the final lift to the grades shown on the plans and prior to installation of the plant materials, an infiltration test shall be performed on the in situ engineered soils. In coordination with and in the presence of the engineer, a volume of water equal to a four-inch depth over the surface area of the planter shall be gently discharged into the bed. If any ponding greater than $\frac{1}{2}$ inch in depth over an area of 5 square foot or more remain 48 hours after the water is placed, the engineered soils in the area exhibiting ponding shall be hand disked to a depth of 20 inches if required and the test repeated until ponding no longer occurs after 48 hours.

This work shall be measured in length, width and depth and paid for at the contract unit price per cubic yard for ENGINEERED SOIL FURNISH AND PLACE (SPECIAL), including all labor, equipment, testing, and materials to complete in place.

SHREDDED BARK MULCH 3"

This work shall consist of furnishing and installing shredded bark mulch in accordance with Section 253 and Section 254 of the Standard Specifications. Mulch for all planting beds shall be hardwood bark mulch, derived from deciduous hardwood trees free of disease and insects. Particle sizes shall be no longer than 3" in length. The mulch shall be mechanically screened and/or shredded for uniform size. Submit a sample for review and written approval by the Landscape Architect a minimum of 14 days prior to delivery.

This work shall be measured in length and width and the area computed in square yards and paid for at the contract unit price per square yard for SHREDDED BARK MULCH 3" for the type of material specified on the plans and shall include all labor, tools, materials and equipment needed to complete this work.

POROUS PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH, (SPECIAL)

This work shall consist of furnishing and installing porous concrete (special) where shown on the construction plans.

Materials shall include Portland Cement, in accordance with Section 1001.01(a) of the Standard Specifications. Fly Ash, conforming to AST C16, may be used in amounts not to exceed 25% of the cementitious material or Ground Iron Blast-Furnace Slag, conforming to ASTM C989, may be used in amounts not to exceed 50% by weight of the total cementitious material.

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The hand squeeze test shall be performed in the field by the Engineer or Certified Pervious Concrete Contractor. A sample of plastic concrete shall be taken from each truck load and hand-squeezed and released. A mix that crumbles (too dry) or in which the paste flows away from the aggregate (too wet) shall be rejected and will require mitigation to achieve a passing test. The correct amount of water will impart a wet metallic appearance or sheen on the material.

Curing procedures shall begin 3-5 minutes after jointing. Prior to covering, the pavement shall be sprayed with soybean oil, at a rate of 0.005 Gal/SF. The pavement shall be covered in a minimum 6-mil thick polyethylene sheet. There shall be a minimum of 12" overhand on each side of the form with enough extra plastic to properly anchor the sides down. The plastic sheeting shall be pulled tight over the concrete to provide a consistent interface and minimize wrinkles in the sheet contacting the surface of the concrete. Any holes, tears or cuts in the plastic shall be taped or repaired to prevent moisture loss and to prevent air infiltration under the plastic. The edges shall be anchored with 2x4's and sandbags. Mud clamps or construction trash will not be allowed. No wind-driven billowing plastic is allowable during the entire 7-day cure. The curing cover shall remain securely in place for a minimum of 7 days, uninterrupted. No vehicular traffic shall be permitted on the pavement until the end of the 7 day cure and no truck traffic shall be permitted for 14 days after placement.

Upon removal of the plastic after a minimum of 7 days, extreme care shall be taken to prevent construction debris, particularly sand, silt and dirt, from being deposited on the porous concrete. Construction staging shall be coordinated to minimize exposure to fines from soils from adjacent construction activities. The contractor shall be responsible for preventing clogging of the porous pavement from adjacent construction activities until acceptance by the owner. The Contractor shall be responsible for vacuuming any fines that accumulate on the pervious pavement prior to acceptance by the owner, incidental to the contract.

Payment for all labor, equipment and materials required by this special provision will be made at the contract unit price per square foot for POROUS PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH, (SPECIAL).

PLANTER RAILING

This work shall consist of furnishing and installing planter railings as shown on the plan and detail sheets including anchoring the railing to the structural concrete and any necessary work to properly furnish and install the planter railing. Mounting plates, anchors, spacers, corner posts, and line posts shall not be paid for separately, but included in the cost of the planter railing. Material shall be A36 Mild Steel, sandblasted. Finish shall be 2 mils. zinc powder coat primer with 4 mils. black powder coat top finish.

The Contractor shall submit shop drawings for the planter railing for approval prior to fabrication.

This work shall be measured in length and paid for at the contract unit price per foot for PLANTER RAILING and shall include all labor, tools, materials and equipment needed to complete this work.

AGGREGATE BASE COURSE, TYPE CA-7

This work shall consist of furnishing all labor, equipment, and material for the installation of Aggregate Base Course, Type CA-7, in accordance with Section 351 of the Standard Specifications, except as modified herein. Aggregate shall be constructed in lifts not more than 12" in depth and shall be compacted by mechanical means to the satisfaction of the engineer. Specific requirements shall be followed for Type B Aggregate. This work shall include location of utilities, excavation and installation of the materials in the areas of aggregate base, type CA-7, as shown in the plans.



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Payment for all labor, equipment and materials required by this special provision will be made at the contract unit price per ton for AGGREGATE BASE COURSE, TYPE CA-7.

AGGREGATE BASE COURSE, TYPE CA-16

1

This work shall consist of furnishing all labor, equipment, and material for the installation of Aggregate Base Course, Type CA-16, in accordance with Section 351 of the Standard Specifications, except as modified herein. Aggregate shall be constructed in lifts not more than 4" in depth and shall be compacted by mechanical means to the satisfaction of the engineer. Specific requirements shall be followed for Type B Aggregate. This work shall include location of utilities, excavation and installation of the materials in the areas of aggregate base, type CA-16, as shown in the plans.

Payment for all labor, equipment and materials required by this special provision will be made at the contract unit price per ton for AGGREGATE BASE COURSE, TYPE CA-16.

AGGREGATE BASE COURSE, TYPE FA-4

This work shall consist of furnishing all labor, equipment, and material for the installation of Aggregate Base Course, Type FA-4, in accordance with Section 1003 of the Standard Specifications, except as modified herein. Aggregate shall be constructed in lifts not more than 12" in depth and shall be compacted by mechanical means to the satisfaction of the engineer. Specific requirements shall be followed for Type B Aggregate.

Payment for all labor, equipment and materials required by this special provision will be made at the contract unit price per ton for AGGREGATE BASE COURSE, TYPE FA-4.

DECORATIVE CONCRETE BLOCK RETAINING WALL

This work shall include all labor, materials and equipment necessary to remove the existing block retaining wall and furnish and install this item in accordance with the plan details, general notes and the manufacturer's recommendations. The Contractor shall submit to the City of Peoria, Developer and Engineer the manufacturer's construction guidelines, a minimum of three (3) weeks prior to construction for review and approval. Existing block and cap may be used to reconstruct the wall if deemed by Engineer to be in accordance with Section 1042.15 of the Standard Specifications. The block and cap shape, size and color shall match the existing block retaining wall to remain in place. If the existing block retaining wall system is no longer being manufactured, the Contractor shall submit an alternate system of similar block and cap shape, size and color for approval by the City of Peoria.

The work shall include removal of the existing concrete block retaining wall, disposal of concrete block retaining wall materials, the decorative block wall, clips for block, the decorative cap, excavation, clay backfill, granular backfill, filter fabric, 4 inch wrapped perforated drain pipe, geogrid if required and any incidental items required by the manufacturers. This work shall be paid for at the contract unit price bid per square foot for DECORATIVE CONCRETE BLOCK RETAINING WALL.

CONCRETE STRUCTURES (SPECIAL)

1

This work shall consist of furnishing all labor, equipment, and material for the installation of concrete structures, in accordance with Section 503 and 508 of the Standard Specifications, except as modified herein and as shown on the plans. Steel reinforcement bars, epoxy coated, shall not be paid for separately, but included in the cost of the CONCRETE STRUCTURES (SPECIAL). The contractor shall field locate any utilities before starting construction as indicated by the engineer including excavating the

utilities and provide the excavation necessary for the installation of concrete structures (special) and the engineered soil (special). This excavation work shall also be included in the cost for CONCRETE STRUCTURES (SPECIAL).

Formed curb notches shall be placed in the structure as shown on the grading plans and detail sheets to provide positive drainage from the sidewalk into the boxes, where indicated.

This work shall be measured in horizontal length, width, and depth of concrete placed and paid for at the contract unit price per cubic yard for CONCRETE STRUCTURES (SPECIAL) and shall include all labor, tools, materials and equipment needed to complete this work as described herein and shown on the plans.

PUBLIC ART DISPLAY

Bases for future public art display areas shall be constructed as shown on the plan and detail sheets including compacted subgrade, subbase granular material, P.C. concrete base with weep holes, filter fabric, leveling sand, and brick pavers and any necessary work to properly furnish and install the future public art display areas. This work shall not be paid for separately, but shall be included in the cost of the respective sidewalk and brick paver banding pay items.

The Contractor shall provide to the Engineer one sample public art display area in the field. The accepted sample public art display area will be the standard by which remaining work will be evaluated for technical and aesthetic merit. The sample public art display shall be installed in a location of proposed installation where it may remain if approved by the Engineer.

SIDEWALK ACCESSIBLE RAMPS

Accessible ramps with Detectable Warnings consisting of truncated domes meeting the requirements of the ADAAG and details shown in the plans shall be provided at all proposed intersections of curb and sidewalk and at locations shown on the plans and listed in the schedule of quantities. This work shall be performed and paid for in accordance with Section 424 of the Standard Specifications, State Standards 424001, 424006, 424011, 424016, 424021 and 424026, and Illinois ADA and PROWAG Standards. The detectable warning shall be black with white border.



PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH, SPECIAL

This work shall consist of furnishing and installing P.C.C. sidewalks special including concrete, equipment; labor and work as shown on the plan and detail sheets including jointing, 4 inch P.C. concrete, concrete depth transitions, dowel bars, and tie bars as detailed in the plans and any necessary work to properly furnish and install the P.C.C. Sidewalk, 4 inch, Special.

This work shall be in accordance with Section 424 of the Standard Specifications, plan details, and as specified herein. Expansion Joints shall be placed at maximum 50-foot intervals and where proposed sidewalk abuts existing or proposed curb, sidewalk, driveway pavement, or concrete steps. Expansion joints shall be made with half inch, three-quarter-inch, and one inch thick bituminous preformed joint filler as detailed on the plans and details. Expansion joint sealing shall be in accordance with Section 452 of the Standard Specifications as detailed on the on the plans and details.



The Contractor shall place and compact 4 inches of subbase granular material, type B, compacted in place to provide the proper subbase for proposed sidewalks in accordance with Section 311 of the Standard Specifications and the plans and as indicated by the Engineer. This granular backfill shall be measured and paid for as subbase granular material, type B.

The Contractor shall make the following submittals to the Engineer prior to beginning work:

- Manufacturers complete technical data sheets for curing compound.
- Manufacturers Qualifications (minimum 10 years required)

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- Installers Qualifications (minimum 5 years required)

The Contractor shall provide to the Engineer one sample panel in the field a minimum of 72 hours prior to sidewalk placement which includes the following:

- Concrete surface texture.
- Expansion joint.
- Control Joint
- Brick Banding (To be paid for separately)

The joint pattern location and spacing shall be as shown on the plan sheets. All joints shall be tooled to a depth of one-fourth the thickness of the concrete and in accordance with Section 424.06 of the Standard Specifications. Sawcutting joints shall not be allowed.

The final finish shall be type B, except a light broom may be substituted for the artificial turf drag. A mechanical spreader shall not be required. Longitudinal floating shall be by hand method. Mechanical floating shall not be allowed.



Additional concrete thickness transition required for dowel bar placement as shown in the plan details for curbside steps and brick paver banding will not be paid for separately but included in the cost of Portland Cement Concrete Sidewalk 4 Inch, Special.

This work as shall be measured in horizontal length and width and the area computed in square feet. This work shall be paid for at the contract unit price bid per square foot for PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH, SPECIAL.

SUBBASE GRANULAR MATERIAL, TYPE B

This work shall consist of furnishing all labor, equipment, and material for the installation of Subbase Granular Material, Type B, under proposed P.C. Concrete Sidewalk and Sidewalk, Special only in accordance with Section 311 of the Standard Specifications, except as modified herein. Material shall be in according to Article 1004.04a of the Standard Specifications, expected that the coarse aggregate shall be Reclaimed Asphalt Pavement (RAP) or Recycled Concrete Material (RCM). All materials shall be mechanically crushed and free of steel, glass, or other deleterious materials and otherwise meet the requirements of Article 1004.04 of the Standard Specifications.

Payment for all labor, equipment and materials required by this special provision will be made at the contract unit price per ton for SUBBASE GRANULAR MATERIAL, TYPE B.

INTERSECTION INLAY

This work shall consist of furnishing and installing a concrete base, filter fabric, leveling sand, and intersection brick pavers according to the detail shown in the plans and as noted herein.

The Contractor shall protect unit pavers and aggregate during storage and construction against soiling or contamination from earth and other materials. Clean all brick as necessary to complete the work at no additional cost.

Weep holes shall be drilled in concrete base at the diameter and locations shown on the applicable plan details. Filter fabric shall be provided in accordance with Section 1080.03 of the Standard Specifications.

Bedding sand for the Leveling Course is to be sound, sharp, washed, natural sand or crushed stone of FA-1 gradation. The Contractor shall place the sand leveling course to a thickness of 1 to 1-1/2 inches, taking care that moisture content remains constant and density is loose and constant until pavers are set and compacted. The sand leveling course shall be treated with soil sterilizer to inhibit the growth of grass and weeds.

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Brick pavers for the Intersection Inlay pattern shall be Crestline Molded Clay w/Dutch Chamfered Edge, Victorian Blend (2-1/4" x 4" x 8") and (2-1/4" x 8" x 8") as manufactured by The Beldon Brick Company, Canton, Ohio or approved equal.

The Contractor shall submit brick paver samples to the City of Peoria and construction resident Landscape Architect a minimum of four (4) weeks prior to construction for review and written approval. The Contractor shall provide to the Engineer one sample intersection inlay in the field. The accepted sample inlay will be the standard by which remaining work will be evaluated for technical and aesthetic merit. The sample inlay shall be in a location of proposed installation where it may remain if approved by the Engineer.

Any required brick cutting shall be with a motor-driven masonry wet saw equipment to provide clean, sharp, unchipped edges. Chipped bricks shall not be incorporated into the brick banding. Hammer cutting will not be allowed. Full units should be used without cutting wherever possible. The Contractor shall take care not to disturb leveling base while placing the pavers. All brick shall be laid flush to each other with the minimum amount of jointing exposed. The final surface of the brick banding shall not exceed 1/16-inch unit-to-unit offset from flush (lippage) or 1/8 inch in 24 inches and 1/4 inch in 10 feet from level, or indicated slope, for finished surface of paving. The Contractor shall use string lines as needed to keep straight lines. Pavers shall be placed to allow for positive sidewalk drainage. Ponding areas shall be picked up and reinstalled at no additional cost.

Once the entire section of pavers has been placed, the Contractor shall spread sand for joint filling over the pavers and hand broom into the joints immediately after placing into leveling course. Sand for Joints is to be fine, sharp, washed, natural sand or crushed stone of FA-9 gradation. The Contractor shall continue to sweep and add sand until the joints are completely filled. Excess sand shall be removed by hand brooming. Traffic shall not be allowed on the installed pavers until sand has been vibrated into joints with vibrator/compactor that is either a plate compactor with a high frequency, low amplitude plate or a rubber-roller mechanical vibrator as approved by the Engineer. Each pass shall be alternated 90 degrees from the previous pass. This process shall be repeated until the joints are completely filled. The Contractor shall repeat the joint-filling process 30 days after the initial joint filling.

Each brick laying location shall be completed within the same day the laying of brick has begins. Brick laying shall not be started if rain is imminent within the same work day.

This work shall be measured in feet of length and width and the area computed in square feet. Payment for all materials, labor and equipment as required to complete this work, concrete base, geotextile fabric, bedding layer, weep holes, laying brick pavers and joint filling shall be included in the contract unit price per square foot for INTERSECTION INLAY.

BRICK PAVER BANDING

This work shall consist of furnishing filter fabric, leveling sand, and brick pavers according to the details shown in the plans and as noted herein.

The Contractor shall protect unit pavers and aggregate during storage and construction against soiling or contamination from earth and other materials. Clean all brick as necessary to complete the work at no additional cost.

Weep holes shall be drilled in concrete base at the diameter and locations shown on the applicable plan details. Filter fabric shall be provided in accordance with Section 1080.03 of the Standard Specifications.

Bedding sand for the Leveling Course is to be sound, sharp, washed, natural sand or crushed stone of FA-1 gradation. The Contractor shall place the sand leveling course to a thickness of 1 to 1-1/2 inches, taking care that moisture content remains constant and density is loose and constant until pavers are set

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and compacted. The sand leveling course shall be treated with soil sterilizer to inhibit the growth of grass and weeds.

Brick pavers for the double row soldier course shall be Crestline Molded Clay w/Dutch Chamfered Edge, Victorian Blend (2-1/4" x 4" x 8") as manufactured by The Beldon Brick Company, Canton, Ohio or approved equal.

Brick pavers for the Brick Corner and the planter boxes below the notch shall be Crestline Molded Clay w/Dutch Chamfered Edge, Victorian Blend (2-1/4" x 8" x 8") as manufactured by The Beldon Brick Company, Canton, Ohio or approved equal.

The Contractor shall submit brick paver samples to the City of Peoria and Landscape Architect a minimum of four (4) weeks prior to construction for review and written approval.

The Contractor shall provide to the Engineer one sample length of brick paver banding beginning at an intersection ramp and surrounding a nonstandard planter box in the field. The accepted sample banding will be the standard by which remaining work will be evaluated for technical and aesthetic merit. The sample banding shall be in a location of proposed installation where it may remain if approved by the Engineer.

Any required brick cutting shall be with a motor-driven masonry wet saw equipment to provide clean, sharp, unchipped edges. Chipped bricks shall not be incorporated into the brick banding. Hammer cutting will not be allowed. Full units should be used without cutting wherever possible. The Contractor shall take care not to disturb leveling base while placing the pavers. All brick shall be laid flush to each other with the minimum amount of jointing exposed. The final surface of the brick banding shall not exceed 1/16-inch unit-to-unit offset from flush (lippage) or 1/8 inch in 24 inches and 1/4 inch in 10 feet from level, or indicated slope, for finished surface of paving. The Contractor shall use string lines as needed to keep straight lines. Pavers shall be placed to allow for positive sidewalk drainage. Ponding areas shall be picked up and reinstalled at no additional cost.

Once the entire section of pavers has been placed, the Contractor shall spread sand for joint filling over the pavers and hand broom into the joints immediately after placing into leveling course. Sand for Joints is to be fine, sharp, washed, natural sand or crushed stone of FA-9 gradation. The Contractor shall continue to sweep and add sand until the joints are completely filled. Excess sand shall be removed by hand brooming. Traffic shall not be allowed on the installed pavers until sand has been vibrated into joints with vibrator/compactor that is either a plate compactor with a high frequency, low amplitude plate or a rubber-roller mechanical vibrator as approved by the Engineer. Each pass shall be alternated 90 degrees from the previous pass. This process shall be repeated until the joints are completely filled. The Contractor shall repeat the joint-filling process 30 days after the initial joint filling.

Each brick laying location shall be completed within the same day the laying of brick has begins. Brick laying shall not be started if rain is imminent within the same work day.

This work shall be measured in feet of length and width and the area computed in square feet. Payment for all materials, labor and equipment as required to complete this work, concrete base, geotextile fabric, bedding layer, weep holes, laying brick pavers and joint filling shall be included in the contract unit price per square foot for BRICK PAVER BANDING.

PLANT MATERIAL

This work shall consist of furnishing and installing all plant material in accordance with Section 253 and Section 254 of the Standard Specifications except as noted herein.

All plant material shall be reviewed and receive written approval by the construction Resident Landscape Architect at the project site. Construction Resident Landscape Architect shall be notified 72 hours prior to delivery of plant material. Refer to the planting schedules on the planting plans for specific tagging

information. Submit a complete plant material list to the construction resident Landscape Architect within 60 days of award of the project.

No bare root stock will be allowed for this project. All plant material shall be balled and burlapped, or in containers. All open air delivery of plant material shall be tarped.

For requirements for planting soils in planter boxes, refer to Engineered Soil (Special) in the special provisions.

All shade tree locations shall be staked in the field and reviewed with the construction Resident Landscape Architect prior to installation. Prior to any shrub, grass, or perennial installation, all plants in the beds shall be placed above ground. The layout shall be reviewed with the construction Resident Landscape Architect before completing installation per the drawings and details.

Omit Section 253.14 of the Standard Specifications. The contractor is responsible for all maintenance of the plant material once it leaves the nursery until Project Completion Date and Final Acceptance of the project and for 60 days beyond Project Completion Date and Final Acceptance of the project. This includes planting, watering, pruning, weed control, insect control, disease control, and mulching as needed. All shrubs shall be maintained at height no greater than 30" above curb. Watering of the plant material shall consist of at least one deep watering of all trees, once a week. Shrubs shall be deep watered a minimum of 3 times per week. Once the irrigation system is complete the contractor may use that to provide supplement watering of the plant material. The contractor shall be responsible for all coordination of the irrigation controller for programming. Beyond 60 days following Project Completion Date and Final Acceptance of the project, the City of Peoria shall assume responsibility for maintenance of all plant materials. All materials, labor, water, and equipment as required to complete the maintenance shall not be paid for separately, but included in the contract unit price for the respective plant pay items.

The Contractor shall be required to furnish and install the actual Type and Quantity of Plants shown on the Plans and in the Schedule of Quantities Tables. This work shall be measured and paid for in the following manner:

Woody Plants – All Trees and Woody Shrubs shall be measured and paid for at the unit price per EACH individual plant.

Perennial Plants – All Perennial Plants shall be measured and paid at the unit price per UNIT (each UNIT being 100 Perennial plants) which shall be rounded (up or down as applicable for each pay item) to the nearest UNIT.

All materials, labor, water, and equipment as required to complete the maintenance shall not be paid for separately, but included in the contract unit price for the respective plant pay items.

Payment for all work consisting of furnishing, installing, and maintaining plant material will not be paid for separately, but included in the cost of each respective plant pay items. The Contractor shall be required to furnish and install the actual Type and Quantity of Plants shown on the Plans and in the Schedule of Quantities Tables. This work shall be measured and paid at the unit price per UNIT (each Unit being 100 plants) which shall be rounded (up or down as applicable for each pay item) to the nearest UNIT in accordance with IDOT policy.

PARK BENCHES

This work shall consist of furnishing and installing benches of the type, size, and location shown on the plans. Benches shall be Victor Stanley, Inc. City Sites Series CR-12, 6' length with center armrest, hot dip galvanized with black powder coat finish, or approved equivalent as shown on the plans. The Contractor shall anchor benches to concrete with 4" x 3/8" galvanized bolts per the manufacturer's requirements for installation.

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This item shall be paid for at the contract unit price per each for PARK BENCHES for the type of bench noted on the plans and shall be payment in full for all labor, tools, materials and equipment needed to complete this work.

TRASH RECEPTACLES

This work shall consist of furnishing and installing trash receptacles of the type, size, and location shown on the plans. Receptacles shall be Victor Stanley, Inc. Ironsites Sites Series S-42, 36-gallon litter receptacle with standard tapered formed lid, hot dip galvanized with black powder coat finish and high density inner liner or approved equivalent as shown on the plans. The Contractor shall anchor trash receptacles with 7" x 5/8" galvanized bolts per the manufacturer's requirements for installation.



This item shall be paid for at the contract unit price per each for TRASH RECEPTACLES for the type of receptacle specified on the plans and shall be payment in full for all labor, tools, materials and equipment needed to complete this work.

PLANTER DRAIN, COMPLETE

This work shall consist of furnishing and installing Planter Drain, Complete including all equipment, labor and pipe and fitting materials to complete construction of the Planter Drain, Complete. One planter drain complete shall be provided in all planter boxes as shown on the plans, with or without connection to the pipe drain 4" special as shown in the storm sewer plans. All work shall be performed in accordance with Section 601 and 602 of the Standard Specifications and the details in the plans.



Planter Drain, Complete shall consist of all polyethylene pipe materials and appurtances for the vertical riser as shown in the details on the plans, including the atrium grate and wye or coupling. The elbow, lateral and wye connection to the pipe drain 4", special, shall be measured and paid for separately as Pipe Drain 4" Special. The excavation and installation for the aggregate and engineered soils in which the planter drains are installed shall be paid for separately for each pay item. All polyethylene materials shall be manufactured in accordance with ASTM F2648, and installed as shown on the details in the plans. Planter Drain, Complete shall be installed in each planter box at the location shown on the storm sewer plans.

This work shall be measured and paid for at the contract unit price per each for PLANTER DRAIN, COMPLETE and shall include all labor, tools, materials and equipment needed to complete this work..

PIPE DRAINS 4" (SPECIAL)

This work shall consist of furnishing and installing Pipe Drains 4" (Special) including all equipment, labor and materials. All work shall be performed in accordance with Section 601 and 602 of the Standard Specifications and the details in the plans.

Pipe Drains 4" (Special) shall consist of all high density polyethylene pipe materials, gaskets, wyes, and any other appurtenances, in accordance with ASTM F2648, to construct Pipe Drains 4" (Special) in accordance with the details in the plans as well as any connections to proposed or existing structures and planter drain complete. The locations are shown on the Drainage Plans. Contractor shall be required to drill/core the structure for pipe connection to structures. This work shall not be paid for separately, but shall be included in the work for the respective pipe drains or drainage structure.



This work shall be measured on a lineal foot basis and paid for at the contract unit price per foot for PIPE DRAINS 4" (SPECIAL). The cost of trench backfill shall not be paid for separately, but shall be included in this cost.

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SANITARY SEWER 8" REMOVED FROM CONTRACT

This work shall consist of furnishing and installing Sanitary Sewer, including all equipment, labor, and materials for the construction of SANITARY SEWER 8".

Unless provided within either these Specifications or on the project plan sheets, information about underground conditions within and near the area of work has not been obtained by the Engineer. The Contractor shall either determine the underground conditions near the proposed sewer construction or repair locations and determine the effect of such conditions upon the proposed work. The Contractor shall assume all risks and accept all costs attributable to unknown and unforeseen underground conditions. Underground conditions such as the presence of underground obstructions or poor soil conditions that unfavorable to the means of sewer construction or reconstruction shall not be a basis for claims for additional compensation.

1.0 General

This Section shall govern all aspects of pipe installation performed using excavation methods. However, all aspects of pipe installation using excavation methods, including, but not limited to, joint construction, bedding, pipe material, concrete thrust block design and construction, backfilling, trench construction, maximum loading imposed on pipe in the trench, and field testing, shall also conform to the Manufacturer's Specification for the particular type of pipe specified. When in conflict, these Specifications shall govern. It shall be the responsibility of the Contractor to notify the Manufacturer at the start of the work and to request the Manufacturer to have a field representative on the job to instruct the Contractor, the Contractor's personnel, Engineers and Inspectors of the latest construction and installation methods.

2.0 Requirements for Specific Pipe Materials

PVC pipe with a standard dimension ratio (SDR) of twenty six (26) may be laid in depths from four (4) feet to twenty (20) feet with specified bedding and ditch widths. PVC sewer pipe shall not be laid in depths greater than twenty (20) feet.

3.0 PVC Pipe - General

Pipe shall be homogenous throughout and free from cracks, holes, foreign inclusions or other injurious defects. Pipe shall be uniform as practicable in: color, opacity, density and any other physical property. Impact resistance testing shall be in accordance with ASTM Test Method D-2444.

Routine inspection, sampling and testing shall be performed during pipe and fitting production to assure a product quality which exceeds the minimum requirements stated herein. Certificates of Conformance to verify conformance with the standard specifications for pipe and accessories shall be submitted by the manufacturer for approval prior to installation.

4.0 PVC Pipe for Gravity Sanitary Sewers

Polyvinyl chloride (PVC) sewer pipe for gravity sanitary sewers is approved for 6-inch through 36-inch diameter. Large diameter (greater than 12-inch) pipe may be used only with the approval of the Engineer. PVC sewer pipe shall not be laid in depths greater than twenty (20) feet.

Pipe and fittings sized from 6-inches to 15-inches shall conform to ASTM designation D-3034, Type PSM and shall be standard dimension ratio (SDR) 26. Pipe shall be provided in the maximum laying lengths available.

Pipe and fittings sized 18-inch up to 36-inches shall conform to ASTM designation F679, thickness T-1.

4.1 Joints for PVC Gravity Sanitary Sewers

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All joints for PVC gravity sanitary sewers shall conform to ASTM standard D-3212 and have flexible elastomeric seals.

5.0 Staking

Refer to Lines and Grades in Section 021 of these Specifications for staking requirements. Staking requirements shall apply to both gravity sanitary sewers and force main sewers

6.0 Excavation

The Contractor shall make to the width and depth necessary for proper construction, all excavations in earth and rock required for constructing the sewers and other structures included in his Contract and according to the Plans and Specifications. Excavation shall include the following: the clearing of the site of the work; the excavating, loosening, classifying, loading, removing, transporting and disposing of all materials, wet or dry, necessary to be removed for purposes of construction; trenching and all trench shoring including sheeting and bracing; all draining and pumping of water; disposal of all excavated materials; and all incidental work. The bottom of the trench shall be smooth and cleared of stones or protruding hard objects. All materials such as trees, brush, debris, etc. removed in site clearing shall be disposed of by the Contractor.

6.1 Trench Width

Trench widths shall be sufficiently wide to permit tamping around the pipe.

Trench widths measured at the top elevation of the pipe shall not exceed the limits for pipe sizes as shown in the table below:

<u>Pipe Inside Diameter</u>	<u>Trench Width at Top of Pipe</u>
Eight (8) inches to Twelve (12) inches, inclusive	Pipe O.D. plus Twenty (20) inches;
Fifteen (15) inches to Thirty Six (36) inches, inclusive	Pipe O.D. plus Sixteen (16) inches;
Greater than Thirty Six (36) inches, inclusive	Pipe O.D. plus 24 inches.

Whenever the trench widths measured at the top of the pipe shall exceed the above specified width, the Contractor shall at his own expense remove any disturbed earth and shall refill all the excavated trench from wall to wall with approved granular bedding, concrete cradle or concrete encasement or a combination thereof as directed by the Engineer.

7.0 Bedding

All sewer trenches shall be excavated to a depth of not less than six (6) inches lower than the lowest elevation of the sewer pipe. A minimum of six (6) inches of approved granular bedding shall be placed in the bottom of the trench, with an additional amount of approved granular bedding tamped and cradled around and over the pipe to a level of one (1) foot above the top of the pipe. Pipe shall be supported over its entire length. One (1) foot of approved bedding material above the top of the pipe shall apply to all types of pipe material, with the exception of ductile iron, where the bedding shall be to the top of the pipe when installed at depths less than sixteen (16) feet.

If the ground conditions are not suitable for bedding as outlined, the Contractor must excavate and dispose of the unsuitable material and add approved granular bedding material to support the pipe, as determined by the Engineer. The bedding shall be built up in six (6) inch to twelve (12) inch layers of approved granular backfill to the bottom of the sewer pipe with an additional amount of approved granular

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backfill allowed for tamping and cradle beneath, around and over the pipe to a level of one (1) foot above the top of the pipe. The above work shall be made part of the contract amount.

7.1 Approved Bedding Material

Granular pipe cradle and envelope shall be constructed with granular materials from approved local deposits graded to Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, latest edition, the Section for Coarse Aggregate Standards. Acceptable graduations for the granular pipe cradle and envelope are CA-7 and CA-11. The material shall be crushed gravel or crushed stone as per IDOT's Coarse Aggregate Standards with a minimum of 75% fractured material, from approved sources as determined by the Engineer.

PVC pipe with excavation depths of sixteen (16) feet to twenty (20) feet shall use CA-7 or CA-11 white rock crushed stone. DIP with excavation depths greater than twenty (20) feet shall also use CA-7 or CA-11 white rock crushed stone for bedding material.

7.2 Concrete Cradle

Structural concrete shall be used for all concrete cradle. Vitrified clay pipe will be laid in concrete cradle when the invert of the sewer is greater than sixteen (16) feet in depth or if the proper trench width is not maintained as specified in paragraph 4.1 above. No extra payment will be allowed for the concrete cradle when the proper trench width was not maintained by the Contractor.

7.3 Concrete Encasement

Where sewers are laid at shallow depth or where shown on the plans and where ordered by the Engineer, the pipe shall be encased in concrete in accordance with the drawing for concrete encasement in Section 095 of these specifications.

8.0 Laying Pipe - General

All pipe shall be carefully inspected before being laid, and no cracked, broken or defective pipe shall be used in the work. Reasonable care in storing the pipe shall be used, with the spigot end being protected from contact with the ground. In stacking, alternate horizontal layers shall be reversed and staggered so that the bell of the upper layer rests on the barrel of the pipe and not the spigot joint. Each pipe shall be laid in conformity with the line and levels given by the Engineers and in the presence of the inspector. The line of each pipe as it is placed shall be located accurately with a laser. Generally, all pipe shall be laid with the bell end upstream. The bottom of the trench shall be so shaped that uniform bearing is obtained throughout the length of each pipe section. Before the pipes are put together the interior of the sewer already in place, including the bell thereof, shall be thoroughly cleared of all dirt and superfluous matters of every description. On small sewers where cleaning after laying may be difficult, a swag or drag shall be kept in the line and pulled forward past each joint after its completion. A watertight clay disc stopper or other approved stopper shall be set in place in the last pipe laid and not be removed except to lay another pipe which in turn must be stoppered. No pipes shall be laid where the water has not first been removed from the ditch.

Upon completion any lines that have rock, silt, mud, or other material inside the pipe shall be cleaned, at the Contractor's expense, to the satisfaction of the Engineer.

8.1 Laying Pipe with a Laser

There are a number of lasers used in construction; hence, the method used to set up the laser prior to laying the sewer shall be approved. However, an above-ground spinning laser is unacceptable as the only laser used to check the grade of the sewer. Beginning at the first manhole, the laser will be leveled and set on line and grade. As the sewer construction reaches the next manhole, the laser will be moved to that new manhole, leveled, and line and grade reset for the next reach of sewer with the percent of grade given on the plans.

The laser will be checked for level, line and grade each morning and noon or at such other times as the construction is resumed after any delay in the work or at such times as in the opinion of the Engineer the line and grade is in question as to its accuracy and conformance with the plans.

The sewer pipe leaving each manhole will be checked at the following intervals; at the end of the first pipe laid, twenty five (25) foot point and at every hundred foot point thereafter by an external method independent of the laser. The method used for this check shall be determined by the Engineer.

The Contractor shall have a District approved ventilation system on site. The system shall be ready and available for use by the construction crew. The system shall be of adequate size to ventilate the manhole and pipes in order to remove condensation.

8.2 Laying Pipe with Other Methods

The methods described of aligning the center and of placing the invert of the pipe at proper elevation, shall be used unless some other method is approved by the Engineer in writing.

9.0 Water Removal

The Contractor shall at all times during construction provide and maintain ample means and devices with which to promptly remove and properly disposal of all water entering the excavations, or other parts of the work and shall keep said excavations dry until the structures to be built therein are completed. No water or unauthorized sewage shall be drained into the work built or under construction.

The entire system of sewers shall be dry and the removal and handling of water required to maintain dry trenches or other excavations for the construction of sewers or other structures in the dry trench, shall be at the expense of the Contractor, including the cost of underdrains where needed.

10.0 Connection to Existing Sewer

When a Contractor is directed to connect an outlet sewer to an existing sewer, he shall immediately provide a temporary bulkhead at the closest manhole. Connections to existing sewers shall be performed using methods detailed in these Specifications. All connections to existing manholes that do not have an existing hole or stub shall be cored and a rubber boot then installed. Other methods shall be approved by the Engineer.

Basis of Payment:

This work shall be paid for at the contract unit price per foot for SANITARY SEWER, 8".



SANITARY SEWER REMOVAL 8" REMOVED FROM CONTRACT

This work shall include all equipment, labor, and materials necessary for the removal of the existing Sanitary Sewer.

Basis of Payment:

This work shall be paid for at the contract unit price per foot for SANITARY SEWER REMOVAL 8".



SANITARY SEWER SERVICE (OPEN CUT), 6" PVC REMOVED FROM CONTRACT

This work shall consist of furnishing and installing Sanitary Sewer Service, including all equipment, labor, and materials for the construction of SANITARY SEWER SERVICE (OPEN CUT), 6" PVC.

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1.0 Sewer Service

~~Services shall be constructed using pipe tees placed in the constructed sewer. The branch inlets of tees shall be six (6) inches in diameter and sloped with an axis at approximately forty five (45) degrees with the horizontal, or as the Engineer directs, toward the property to be served.~~

~~The bell of the branched tee or the end bell of the riser or stub sewer shall be fitted with a permanent type stopper sized equal to that of the pipe joint. The permanent stopper shall be of the type that will withstand the Standard Air Test for sewers as detailed in Section 039 of these Specifications. Stoppers shall be Cherne Gripper Mechanical Plugs, polyvinyl chloride (PVC) glue-on caps, or an approved equal.~~

~~Unless otherwise directed by the Engineer, when the branch tees are located in the sewer line, with both tees pointing the same direction there shall be a minimum of one (1) pipe length between tees. Two sewer stubs shall not be installed in a common trench for the purpose of servicing adjoining lots.~~

2.0 PVC Tees

~~All PVC tees shall be fabricated and have gasketed joints and wall thickness in conformance with either standard dimension ratio SDR 26 or SDR 21. The SDR of tees shall match that of the adjoining mainline sewer.~~

3.0 Stub Sewers

~~Where shown on the plans or directed by the Engineer, a six (6) inch diameter stub sewer shall be constructed to serve the lots and parcels. The stub sewer shall be constructed of the same material as the main line sewer pipe and be connected to the mainline inlet and riser, if necessary, in accordance with these Specifications. Stub sewers shall extend toward the lots or parcels to be served as shown on the plans. In general, the stub to the lot shall have a slope of not less than 0.75% grade or more than 1.0% grade. The end of the stub shall be provided with a permanent type stopper sized equal to that of the pipe joint. Stopper shall be a Cherne Gripper mechanical plug, PVC glue on cap, or approved equal. If ductile iron pipe is used, a properly sized ductile iron mechanical cap shall be used.~~

~~In the construction of the stub sewers not more than one half the width of the street shall be opened at one time in order that traffic be maintained at all times. All stub sewers shall be measured from the bell of the tee or the bell of the forty five (45) degree bend on the riser pipe.~~

4.0 Plugs

~~Plugs shall be constructed such that the existing pipe to be plugged is cut and cleaned so that a Fernco-brand flexible type coupling can be installed over the plain end. A section of equal diameter pipe, including the same SDR for PVC pipe and the same class thickness, or an equivalent pressure class thickness, for DI pipe shall then be installed at the other end of the coupling. The pipe shall be plugged by installing a cap over the open end of the pipe.~~

~~**Basis of Payment:** All labor, equipment and materials necessary for Sanitary Services shall be included in the contract unit price per foot for SANITARY SEWER SERVICE (OPEN CUT), 6".~~

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This item shall be paid for at the contract unit price per each for IRRIGATION SYSTEM - CONTROLLER for the type of equipment specified on the plans and shall be payment in full for all labor, tools, materials and equipment needed to complete this work.

PVC CLASS 200 PIPE, 1.5", OR 2"

This work shall consist of trench excavation, along with furnishing and installing irrigation trench granular backfill, type CA-7, and furnishing and installing Polyvinyl Chloride (PVC) Plastic Pipe of the diameter noted and filter fabric as shown in the plans and as indicated by the Engineer. All plastic piping within this system shall be PVC Type I-SDR21 (Class 200) conforming to ASTM D2241, "Specifications for PVC Plastic Pipe", with diameters as shown on the drawings. Pipe shall have solvent weld sockets. All pipe shall be from the same manufacturer. Approved manufacturers are:

- Crestline
- Cantex
- Eagle



Work includes all necessary fittings, reducers, excavation, granular backfill, filter fabric, pipe material and installation per the irrigation plans and details. Contractor shall submit samples to the Engineer four (4) weeks prior to start of installation.

This work shall be measured in feet along the top of the pipe which includes all work and materials referenced above. No separate payment will be made for fittings, excavation, granular backfill, or filter fabric and they shall be included in the cost of PVC CLASS 200 PIPE of the diameter noted. This work shall be paid for at the contract unit price per foot for PVC CLASS 200 PIPE of the diameter noted including all labor, tools, materials and equipment needed to complete this work.

VALVE BOX ASSEMBLY, DRIP ZONE

This work shall consist of furnishing, and installing a valve box assembly, drip zone including:

- Rainbird X CZ-PRB-100-COM Control Zone Kit / 1" ball valve with 1" PESB valve or approved equivalent, 1" pressure regulating (40 psi), basket filter.
- Rainbird Standard Rectangular Series Valve Box (VB-STD) or approved equivalent.
- Rainbird field decoder (FD-101TURF) or approved equivalent per box.
- Rainbird DB Series Wire Connectors (DBTWC25) or approved equivalent.
- Gravel sump per details.
- Concrete brick supports for valve box per details.
- One Rainbird FD-101TURF Decoder.
- ID tag identifying the valve number corresponding to the controller.



Work includes all necessary fitting, reducers, excavation, and backfilling as shown on the irrigation plans and details.

This item shall be measured on an Each basis and paid for at the contract unit price per each for VALVE BOX ASSEMBLY, DRIP ZONE including all labor, tools, materials and equipment needed to complete this work.

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VALVE BOX ASSEMBLY, QUICK COUPLER

This work shall consist of furnishing, and installing a valve box assembly, quick coupler including the following:

- Rainbird Quick Coupling Valve, Model No. 33-DLRC or approved equivalent.
- Rainbird 6" Round Series Valve Box, Model No. VB-6RND or approved equivalent.
- Rainbird Valve Box Locking System, Model No. VB-LOCK-H or approved equivalent.
- Gravel sump per details.
- Piping from Mainline to Quick Coupler



Work includes all necessary fitting, reducers, excavation, and backfilling as shown on the irrigation plans and details.

This item shall be measured as an each paid for at the contract unit price per each for VALVE BOX ASSEMBLY, QUICK COUPLER including all labor, tools, materials and equipment needed to complete this work.

VALVE BOX ASSEMBLY, AIR/VACUUM RELIEF & MANUAL LINE FLUSH

This work shall consist of furnishing, and installing Valve Box Assembly, Air/Vacuum Relief & Manual Line Flush including:

- Rainbird Air/Vacuum Relief Valve Kit, Model No. AR Valve Kit or approved equivalent.
- Rainbird 6" Round Series Valve Box, Model No. VB-6RND or approved equivalent.
- Rainbird Removable Flush Cap, Model No. MDCFCAP or approved equivalent.
- Gravel sump per details.



Work includes all necessary fitting, reducers, excavation, and backfilling as shown on the irrigation plans and details.

This item shall be measured on an each basis and paid for at the contract unit price per each for VALVE BOX ASSEMBLY, AIR/VACUUM RELIEF and VALVE BOX ASSEMBLY, MANUAL LINE FLUSH for the type noted on the plans including all labor, tools, materials and equipment needed to complete this work.

IRRIGATION BED .9 GPH

This work shall consist of furnishing and installing Irrigation Beds .9 GPH including the following equipment in the interior of each planter bed:

- PVC Class 200 Pipe, 1.5" diameter connection from lateral to drip zone piping
- Rainbird XFD-MA-075 drip irrigation point of connection
- Rainbird XFS Dripline with Copper Shield or approved equivalent, .9 gph, with 12" emitter spacing.
- Rainbird 17mm Insert Fittings or approved equivalent.
- Rainbird Tie-Down Stakes, Model No. TDS-050 or approved equivalent.



Work includes all necessary fittings, reducers, excavation, and backfilling as shown on the irrigation plans to install an irrigation bed in each planter box.

This work shall be measured on a square foot of area inside the respective planter box and paid for at the contract unit price per square foot for IRRIGATION BED .9 GPH including all labor, tools, materials and equipment needed to complete this work.

IRRIGATION OPERATION INDICATOR



This work shall consist of furnishing, and installing a Rainbird Drip Irrigation Operation Indicator (Model NO. OPERIND), or approved equal, in locations specified on the plans. Adjust the VAN Nozzle to allow for wetting pattern to be emitted. Work includes all necessary fitting, excavation, and backfilling to complete the installation.

This work shall be measured on an each basis and paid for at the contract unit price per each for IRRIGATION OPERATION INDICATOR for the type noted on the plans including all labor, tools, materials, and equipment needed to complete this work.

IRRIGATION CONTROL WIRE IN 2" CONDUIT



This work shall be in accordance with Section 873 of the Standard Specifications and consists of furnishing, and installing irrigation control wire in 2" conduit. The conduit shall be Schedule 40 Polyvinyl Chloride (PVC) Plastic Pipe of the diameter noted. Work includes all necessary fitting, excavation, and backfilling to complete the installation.

The work includes furnishing and installing 14 gauge wires and surge protection as recommended by Rainbird or approved equal. Submit complete shop drawings, and equipment cut sheets, indicating final runs for the Irrigation Control Wire that have been coordinated with lighting and traffic signal wiring layouts.

This work shall be paid for at the contract unit price per foot for IRRIGATION CONTROL WIRE IN 2" CONDUIT including all labor, tools, materials, and equipment needed to complete this work.



IRRIGATION SLEEVES

This work shall consist of furnishing all labor, equipment, and material for the installation of irrigation sleeve as shown on the plan sheets and details. The irrigation sleeves shall be schedule 80 PVC.

This work shall be measured in length and paid for at the contract unit price per foot for IRRIGATION SLEEVES and shall include all labor, tools, materials and equipment needed to complete this work.

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A letter affirming that copies of the Special Provisions applying to fixtures and poles have been sent to the manufacturer certifying that the poles to be furnished will meet the requirements of the Special Provisions and three (3) copies of drawings showing each pole and fixture and including for both, the types of material, dimensions, thickness of material, method of fabrication and description of details and color surface, a sample of all cables and conductors, three (3) copies of photometric data including isofootcandle diagram, utilization curve and isocandela diagram for each pattern of each size of each type of fixture specified, description of pattern indicator, ballast, contactor, circuit breakers, selector switch, cabinet, insulating panel board, photocell, and fused safety switch.

GUARANTEES

If a guarantee is included in the standard sales prices of any items at no extra cost, the Contractor shall supply the engineer with a copy. Lamps, fixtures, ballasts, photocells, contactors and circuit breakers may have such a guarantee.

ELECTRIC SERVICE INSTALLATION, SPECIAL

This work shall consist of furnishing and installing the Electrical Service. This work shall be performed in accordance with Section 804 of the Standard Specifications, the plan details, and as noted herein. The electric service installation shall extend beyond utility owned facilities to the point of cable termination of the incoming power to the lighting controller. Termination of the cable in the self-contained meter socket, provided as part of the lighting controller, shall be included in this work.

All costs shall be included and shall be paid for at the contract unit price per each for ELECTRIC SERVICE INSTALLATION, SPECIAL.

LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 200AMP

This work shall consist of furnishing and installing the Lighting Controller. This work shall be performed in accordance with Section 825 of the Standard Specifications, the plan details, and as noted herein.



The enclosure shall be stainless steel, powder coated painted black to match poles. Foundation for controller shall be included in LIGHTING CONTROLLER, BASE MOUNTED, 240 VOLT, 200 AMP pay item.

The work will be measured and paid for at the contract unit price per each for LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 200AMP.

LIGHT POLE FOUNDATION, 24" DIAMETER

This work shall consist of furnishing and installing the 24" diameter pole bases. This pole base shall be used for STREET LIGHTING ASSEMBLY COMPLETE TYPE F1.

This work shall be performed in accordance with Section 836 of the Standard Specifications, the IDOT Detail 836001.01, and as noted herein.

The shaft diameter shall be 2'-0" with a depth of 5'-0", the anchor rod length shall be 4'-9",

The work will be measured and paid for at the contract unit price per foot for LIGHT POLE FOUNDATION, 24" DIAMETER.

LUMINAIRE, LED HORIZONTAL MOUNT 175 WATT

This work shall be in accordance with Section 821 of the Standard Specifications except as modified herein.



Luminaire shall be a down light fixture "Sternberg Glenview 1940 with clear sag glass lens" or approved equal with a high gloss black finish. The LED fixture shall have a Type III Distribution, is a maximum 175 Watts, deliver a minimum of 9,000 lumens downward, ranges between 4,200 and 5,200 Kelvin, and has a 75 CRI.

Basis of Payment: This work shall be paid for at the contract unit price each for LUMINAIRE, LED HORIZONTAL MOUNT 175 WATT and shall be payment in full for all labor, equipment, and materials required to supply and install the luminaire described above, complete.

FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F & SM24F



This work shall be in accordance with Sections 801, 864, 871, and 1076 of the Standard Specifications except as modified herein.

The fiber optic cable shall be a 36 fiber hybrid cable with 12 multi-mode and 24 single mode fibers.

Six multi-mode fibers and six single mode fibers from each cable entering the cabinet shall be terminated utilizing mechanical or fusion spliced ST connectors in each traffic signal cabinet. All terminated fibers shall be clearly labeled. All required equipment, including but not limited to fiber optic cables, connectors, and hardware shall be included in this pay item.

Fibers not being used shall be labeled "spare", and fibers not attached to a distribution enclosure shall be capped and sealed.

The Contractor shall furnish and install a 24 fiber wall mountable interconnect center in each existing traffic signal cabinet. The Contractor is responsible for rearranging existing components to facilitate installation. The wall mountable interconnect center shall be equipped with two six-fiber bulkheads, complete with all required fiber termination accessories.

All ancillary components, required to complete the fiber optic cable plant, including but not limited to, moisture and water sealants, cable caps, fan-out kits, weather-proof splice kits, boots, etc., shall be supplied under this pay item and will not be paid for separately.

The fiber optic cable shall be clearly marked in each handhole and cabinet with a brightly colored (orange or yellow) weather resistant label securely attached to the cable.

Materials. The single-mode, fiber optic cable shall incorporate a loose, buffer-tube design. The cable shall conform to the requirements of RUS 7 CFR1755.900 (PE-90) for a single sheathed, non-armored cable, and shall be new, unused and of current design and manufacture. The number of fibers in each cable shall be as specified on the plans.

Construction Requirements:

Experience Requirements.

Personnel involved in the installation, splicing and testing of the fiber optic cables shall meet the following requirements:

A minimum of three (3) years experience in the installation of fiber optic cables, including splicing, terminating and testing single mode fibers.

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The total dB loss of the cable, less events, shall not exceed the manufacturer's production specifications as follows: 0.5 dB/km at both 1310 and 1550 nm.

If the total loss exceeds these specifications, the Contractor shall replace or repair that cable run at the Contractor's expense, both labor and materials. Elevated attenuation due to exceeding the pulling tension during installation shall require the replacement of the cable run at the Contractor's expense, including labor and materials.

The Contractor shall label the destination of each trunk cable onto the cable in each handhole and termination panel.

Slack Storage of Fiber Optic Cables.

A part of this pay item, slack fiber shall be supplied as necessary to allow splicing the fiber optic cables in a controlled environment, such as a splicing van or tent. After splicing has been completed, the slack fiber shall be stored underground in handholes and in the traffic controller cabinets.

The amount of slack cable listed in Article 873.03 shall be revised as follows:

<u>Location</u>	<u>Length of Slack Cable (Ft.)</u>
Handhole	6.5
Double Handhole	26.0
Controller Cabinet	10.0



Basis of Payment: This work will be paid for at the contract unit price per foot for FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F & SM24F and shall be payment in full for all labor, equipment, and materials required to provide, install, and test the fiber optic cable described above, complete.

TRAFFIC SIGNAL BATTERY BACKUP SYSTEM

The following models of Battery Backup Systems are approved for use:

Alpha Novus XFM 1100
Techpower Development M-E XL 1000

The Contractor shall be responsible for providing Battery Backup Systems that are sized appropriately for the intersection load. The total system load shall not exceed the manufacturer's specifications.

The battery backup system for the proposed traffic signal cabinet shall be installed as follows:

- The BBS shall be fully integrated into the proposed traffic signal cabinet by the cabinet supplier at their facility prior to shipping the system to the Contractor
- The cabinet light, ventilation fans, heater strips, and service receptacle shall be wired to a separate circuit that will not be powered by the battery backup system
- A hole of sufficient size for the cables will be drilled into the side of the cabinet to accommodate the battery backup system cables and harnesses from the BBS cabinet. The hole shall be free of sharp edges and equipped with a plastic or rubber grommet.
- The manual by-pass switch shall be installed in the controller cabinet.

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