



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

January 11, 2012

SUBJECT: FAU 4010 (Edgewood Drive)
Project CMM-M-BRM-9003(555)
Section 09-00078-00-WR (Algonquin)
McHenry County
Contract No. 63655
Item 149
January 20, 2012 Letting
Addendum (A)

NOTICE TO PROSPECTIVE BIDDERS:

Due to clarify information necessary to revise the following:

1. **Replaced the Schedule of Prices.**
2. **Recurring Special Provisions Check Sheet.**
3. **Table of Contents.**
4. **Pages 29 – 33 and page 71 of the Special Provisions.**
5. **Sheet 3, 40 & 55 of the Plans.**

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

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

Very truly yours,

Scott Stitt, P.E.
Acting Engineer of Design and Environment

A handwritten signature in black ink, appearing to read "Ted B. Walschleger" followed by a small "P.E." to the right.

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

COUNTY NAME	CODE	DIST	SECTION NUMBER	PROJECT NUMBER	ROUTE
MCHENRY	111	01	09-00078-00-WR (ALGONQUIN)	CMM-M-BRM-9003/555/000	FAU 4010

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
A2000120	T-ACERX FREM AB 2-1/2 *	EACH	24.000 X				
A2001220	T-ACER RUB RS 2-1/2 *	EACH	28.000 X				
A2004568	T-GINKGO BIL MA 3 *	EACH	20.000 X				
A2007120	T-QUERCUS RUBRA 2-1/2 *	EACH	39.000 X				
A2007720	T-TAXODI DIS SB 2-1/2 *	EACH	33.000 X				
A2007924	T-TILIA AMER RD 3	EACH	6.000 X				
K1005421	SEEDING SPL	ACRE	1.000 X				
X0322791	FILL EXIST SAN SEWER	CU YD	45.000 X				
X0325714	FL BEACON P MTD SP IN	EACH	2.000 X				
X0326358	STORM WATER TRTMT SYS *	EACH	2.000 X				
X0326806	WASHOUT BASIN	L SUM	1.000 X				
X0326862	STRUCTURE ADJ	EACH	13.000 X				
X0426200	DEWATERING	L SUM	1.000 X				
X0540000	BRICK PAVERS	SQ FT	746.000 X				
X2070304	POROUS GRAN EMB SPEC *	CU YD	221.000 X				

* Revised 1-11-12

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
X2800500	INLET PROTECTION SPL	EACH	49.000 X	=		=	
X2800510	INLET FILTER CLEANING	EACH	49.000 X	=		=	
X4021000	TEMP ACCESS- PRIV ENT	EACH	7.000 X	=		=	
X4023000	TEMP ACCESS- ROAD	EACH	4.000 X	=		=	
X6020094	MAN TA 6D T1F CL R-P	EACH	1.000 X	=		=	
X6020099	MAN TA 9 DIA SPL F&G	EACH	1.000 X	=		=	
X6020102	MAN TA 9 D T1F CL R P	EACH	1.000 X	=		=	
X6020294	MAN TA 7D T1F CL R-P	EACH	1.000 X	=		=	
X6022230	MAN TA 4 DIA SPL F&G *	EACH	8.000 X	=		=	
X6022712	CB TA 4 DIA W/SPL F&G	EACH	27.000 X	=		=	
X6022930	MAN TA 5 DIA SPL F&G	EACH	10.000 X	=		=	
X6023508	INLETS TA W/SPL F&G	EACH	24.000 X	=		=	
X6024090	MAN TA 6 DIA SPL F&G	EACH	1.000 X	=		=	
X6024503	INLET ADJ NEW F&G SPL	EACH	1.000 X	=		=	
X6026058	SAN MAN SP FRAME W CL	EACH	7.000 X	=		=	

* Revised 1-11-12

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
X6650206	WOV W FENCE REM & RE	FOOT	20.000 X	=	=	=	=
X7010216	TRAF CONT & PROT SPL	L SUM	1.000 X	=	=	=	=
Z0001050	AGG SUBGRADE 12	SQ YD	8,156.000 X	=	=	=	=
Z0013797	STAB CONSTR ENTRANCE	SQ YD	560.000 X	=	=	=	=
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.000 X	=	=	=	=
Z0022800	FENCE REMOVAL	FOOT	250.000 X	=	=	=	=
Z0042002	POROUS GRAN EMB SUBGR	CU YD	1,000.000 X	=	=	=	=
Z0056900	SAN SEW 8	FOOT	898.000 X	=	=	=	=
Z0058300	SAN SEW T1 8	FOOT	146.000 X	=	=	=	=
Z0067700	STEEL CASINGS 20	FOOT	26.000 X	=	=	=	=
Z0076600	TRAINEES	HOOR	1,000.000 X	=	0.80	=	800.00
Z0077900	WD POST & RAIL FENCE	FOOT	1,139.000 X	=	=	=	=
20100110	TREE REMOV 6-15	UNIT	956.000 X	=	=	=	=
20100210	TREE REMOV OVER 15	UNIT	349.000 X	=	=	=	=
20101000	TEMPORARY FENCE	FOOT	100.000 X	=	=	=	=

* Revised 1-11-12

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
20101100	TREE TRUNK PROTECTION	EACH	20.000 X	=		=	
20101200	TREE ROOT PRUNING	EACH	20.000 X	=		=	
20101300	TREE PRUN 1-10	EACH	10.000 X	=		=	
20101350	TREE PRUN OVER 10	EACH	10.000 X	=		=	
20200100	EARTH EXCAVATION	CU YD	3,346.000 X	=		=	
20201200	REM & DISP UNS MATL	CU YD	7,436.000 X	=		=	
20300100	CHANNEL EXCAVATION *	CU YD	300.000 X	=		=	
20400800	FURNISHED EXCAVATION	CU YD	3,970.000 X	=		=	
20700220	POROUS GRAN EMBANK *	CU YD	547.000 X	=		=	
20800150	TRENCH BACKFILL *	CU YD	4,232.000 X	=		=	
21001000	GEOTECH FAB F/GR STAB	SQ YD	140.000 X	=		=	
21101625	TOPSOIL F & P 6	SQ YD	11,114.000 X	=		=	
25000210	SEEDING CL 2A	ACRE	1.100 X	=		=	
25000300	SEEDING CL 3	ACRE	0.600 X	=		=	
25000400	NITROGEN FERT NUTR	POUND	208.000 X	=		=	

* Revised 1-11-12

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
25000500	PHOSPHORUS FERT NUTR	POUND	208.000 X				
25000600	POTASSIUM FERT NUTR	POUND	208.000 X				
25100630	EROSION CONTR BLANKET	SQ YD	5,556.000 X				
25100635	HD EROS CONTR BLANKET	SQ YD	5,558.000 X				
25200200	SUPPLE WATERING	UNIT	35.000 X				
28000305	TEMP DITCH CHECKS	FOOT	460.000 X				
28000315	AGG DITCH CHECKS	TON	15.000 X				
28000400	PERIMETER EROS BAR	FOOT	9,240.000 X				
28100113	STONE RIPRAP CL A7	SQ YD	172.000 X				
28200200	FILTER FABRIC	SQ YD	285.000 X				
30200650	PROCESS MOD SOIL 12 *	SQ YD	8,792.000 X				
30200950	PROCESS MOD SOIL 18 *	SQ YD	3,000.000 X				
30201600	FLY ASH	TON	800.000 X				
31101200	SUB GRAN MAT B 4	SQ YD	11,792.000 X				
35101600	AGG BASE CSE B 4	SQ YD	360.000 X				

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
35101800	AGG BASE CSE B 6	SQ YD	4,027.000 X	=		=	
40600100	BIT MATLS PR CT	GALLON	6,525.000 X	=		=	
40600300	AGG PR CT	TON	140.000 X	=		=	
40600625	LEV BIND MM N50	TON	188.000 X	=		=	
40600982	HMA SURF REM BUTT JT	SQ YD	30.000 X	=		=	
40600990	TEMPORARY RAMP	SQ YD	30.000 X	=		=	
40603080	HMA BC IL-19.0 N50	TON	4,569.000 X	=		=	
40603335	HMA SC "D" N50	TON	2,167.000 X	=		=	
42001300	PROTECTIVE COAT	SQ YD	1,542.000 X	=		=	
42001430	BR APPR PVT CON (FLX)	SQ YD	37.000 X	=		=	
42300200	PCC DRIVEWAY PAVT 6	SQ YD	331.000 X	=		=	
42400100	PC CONC SIDEWALK 4	SQ FT	782.000 X	=		=	
42400800	DETECTABLE WARNINGS	SQ FT	94.000 X	=		=	
44000100	PAVEMENT REM	SQ YD	11,484.000 X	=		=	
44000158	HMA SURF REM 2 1/4	SQ YD	3,308.000 X	=		=	

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
44000200	DRIVE PAVEMENT REM	SQ YD	928.000 X	=			
44000500	COMB CURB GUTTER REM	FOOT	1,178.000 X	=			
44000600	SIDEWALK REM	SQ FT	199.000 X	=			
44201749	CL D PATCH T1 9	SQ YD	85.000 X	=			
44201753	CL D PATCH T2 9	SQ YD	250.000 X	=			
50100100	REM EXIST STRUCT	EACH	1.000 X	=			
50101500	REM EXIST SUP-STR	EACH	1.000 X	=			
50102400	CONC REM	CU YD	3.000 X	=			
50105220	PIPE CULVERT REMOV	FOOT	550.000 X	=			
50200100	STRUCTURE EXCAVATION	CU YD	1,211.000 X	=			
50300225	CONC STRUCT	CU YD	269.000 X	=			
50300255	CONC SUP-STR	CU YD	147.000 X	=			
50300260	BR DECK GROOVING	SQ YD	15.000 X	=			
50300285	FORM LINER TEX SURF	SQ FT	3,370.000 X	=			
50300300	PROTECTIVE COAT	SQ YD	375.000 X	=			

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
50500105	F & E STRUCT STEEL	L SUM	1.000 X	=		=	
50800205	REINF BARS, EPOXY CTD	POUND	76,640.000 X	=		=	
50800515	BAR SPLICERS	EACH	70.000 X	=		=	
51500100	NAME PLATES	EACH	1.000 X	=		=	
54003000	CONC BOX CUL	CU YD	108.000 X	=		=	
54011206	PCBC 12X6	FOOT	54.000 X	=		=	
54213663	PRC FLAR END SEC 18	EACH	1.000 X	=		=	
550A0050	STORM SEW CL A 1 12	FOOT	81.000 X	=		=	
550A0090	STORM SEW CL A 1 18	FOOT	8.000 X	=		=	
550A0120	STORM SEW CL A 1 24	FOOT	127.000 X	=		=	
550A0140	STORM SEW CL A 1 30	FOOT	395.000 X	=		=	
550A0340	STORM SEW CL A 2 12	FOOT	1,287.000 X	=		=	
550A0380	STORM SEW CL A 2 18	FOOT	328.000 X	=		=	
550A0410	STORM SEW CL A 2 24	FOOT	152.000 X	=		=	
550A0430	STORM SEW CL A 2 30	FOOT	1,208.000 X	=		=	

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
550A0450	STORM SEW CL A 2 36	FOOT	22.000 X	=	=	=	=
550A0500	STORM SEW CL A 2 60	FOOT	153.000 X	=	=	=	=
550A0540	STORM SEW CL A 2 84	FOOT	206.000 X	=	=	=	=
550A0780	STORM SEW CL A 3 48	FOOT	209.000 X	=	=	=	=
59100100	GEOCOMPOSITE WALL DR	SQ YD	231.000 X	=	=	=	=
60107600	PIPE UNDERDRAINS 4	FOOT	800.000 X	=	=	=	=
60224446	MAN TA 7 DIA T1F CL	EACH	1.000 X	=	=	=	=
60500040	REMOV MANHOLES	EACH	4.000 X	=	=	=	=
60500050	REMOV CATCH BAS	EACH	2.000 X	=	=	=	=
60500060	REMOV INLETS	EACH	1.000 X	=	=	=	=
60604100	COMB CC&G TB6.12 MOD	FOOT	8,173.000 X	=	=	=	=
60609200	COMB CC&G TM6.12	FOOT	165.000 X	=	=	=	=
63000001	SPBGR TY A 6FT POSTS	FOOT	150.000 X	=	=	=	=
63100045	TRAF BAR TERM T2	EACH	4.000 X	=	=	=	=
63100070	TRAF BAR TERM T5	EACH	2.000 X	=	=	=	=

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
63100085	TRAF BAR TERM T6	EACH	2.000 X	=		=	
63100167	TR BAR TRM T1 SPL TAN	EACH	2.000 X	=		=	
63200310	GUARDRAIL REMOV	FOOT	312.000 X	=		=	
63300725	SPBGR (SHORT RADIUS)	FOOT	13.000 X	=		=	
64100120	SIGHT SCRN (WF) TP 8	FOOT	200.000 X	=		=	
67100100	MOBILIZATION	L SUM	1.000 X	=		=	
70106800	CHANGEABLE MESSAGE SN	CAL MO	14.000 X	=		=	
72000100	SIGN PANEL T1	SQ FT	60.000 X	=		=	
72800100	TELES STL SIN SUPPORT	FOOT	46.000 X	=		=	
78000100	THPL PVT MK LTR & SYM	SQ FT	73.000 X	=		=	
78000200	THPL PVT MK LINE 4	FOOT	9,625.000 X	=		=	
78000400	THPL PVT MK LINE 6	FOOT	330.000 X	=		=	
78000600	THPL PVT MK LINE 12	FOOT	132.000 X	=		=	
78000650	THPL PVT MK LINE 24	FOOT	136.000 X	=		=	
78200410	GUARDRAIL MKR TYPE A	EACH	7.000 X	=		=	

* Revised 1-11-12

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
78201000	TERMINAL MARKER - DA	EACH	2.000 X				
88600600	DET LOOP REPL	FOOT	144.000 X				

* Revised 1-11-12

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.

TOTAL \$

CHECK SHEET
RECURRING SPECIAL PROVISIONS

Adopted January 1, 2012

The following RECURRING SPECIAL PROVISIONS indicated by an "X" are applicable to this contract and are included by reference:

<u>CHECK SHEET #</u>	<u>RECURRING SPECIAL PROVISIONS</u>	<u>PAGE NO.</u>
1	X Additional State Requirements For Federal-Aid Construction Contracts (Eff. 2-1-69) (Rev. 1-1-10)	1
2	X Subletting of Contracts (Federal-Aid Contracts) (Eff. 1-1-88) (Rev. 5-1-93)	4
3	X EEO (Eff. 7-21-78) (Rev. 11-18-80)	5
4	Specific Equal Employment Opportunity Responsibilities Non Federal-Aid Contracts (Eff. 3-20-69) (Rev. 1-1-94)	15
5	Required Provisions - State Contracts (Eff. 4-1-65) (Rev. 1-1-12)	20
6	Asbestos Bearing Pad Removal (Eff. 11-1-03)	25
7	Asbestos Waterproofing Membrane and Hot-Mix Asphalt Surface Removal (Eff. 6-1-89) (Rev. 1-1-09)	26
8	Haul Road Stream Crossings, Other Temporary Stream Crossings, and In-Stream Work Pads (Eff. 1-2-92) (Rev. 1-1-98)	27
9	Construction Layout Stakes Except for Bridges (Eff. 1-1-99) (Rev. 1-1-07)	28
10	X Construction Layout Stakes (Eff. 5-1-93) (Rev. 1-1-07)	31
11	Use of Geotextile Fabric for Railroad Crossing (Eff. 1-1-95) (Rev. 1-1-07)	34
12	Subsealing of Concrete Pavements (Eff. 11-1-84) (Rev. 1-1-07)	36
13	Hot-Mix Asphalt Surface Correction (Eff. 11-1-87) (Rev. 1-1-09)	40
14	Pavement and Shoulder Resurfacing (Eff. 2-1-00) (Rev. 1-1-09)	42
15	PCC Partial Depth Hot-Mix Asphalt Patching (Eff. 1-1-98) (Rev. 1-1-07)	43
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17	Polymer Concrete (Eff. 8-1-95) (Rev. 1-1-08)	46
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30	Quality Control of Concrete Mixtures at the Plant (Eff. 8-1-00) (Rev. 1-1-11)	68
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CHECK SHEET
LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS

Adopted January 1, 2012

The following LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS indicated by an "X" are applicable to this contract and are included by reference:

<u>CHECK SHEET #</u>	<u>LOCAL ROADS AND STREETS RECURRING SPECIAL PROVISIONS</u>	<u>PAGE NO.</u>
LRS 1	Reserved.....	89
LRS 2	<input type="checkbox"/> Furnished Excavation (Eff. 1-1-99) (Rev. 1-1-07)	90
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PROJECT SPECIAL PROVISIONS

AGGREGATE DITCH CHECKS

Description. This work shall be constructed in accordance with Section 208 of the Standard Specifications, the details in the plans, and as directed by the Engineer.

Construction Requirements. The AGGREGATE DITCH CHECKS will be constructed according to the NRCS Standard Drawing No. IL-605R, Rock Check Dam – Riprap.

Basis of Payment. This item will be paid for at the contract unit price per ton for AGGREGATE DITCH CHECKS which includes filter fabric, course aggregate, riprap, keying into soil, removal if required and all requirements of standard drawings and plans. The price shall be payment in full for all labor and material necessary to complete the work described above.

BRICK PAVERS

Description. This work shall be constructed in accordance the details in the plans, Manufacturer' specifications, and as directed by the Engineer.

Basis of Payment. This item will be paid for at the contract unit price per square foot for BRICK PAVERS which includes filter cloth, gravel base, bedding sand and all requirements of plans. The price shall be payment in full for all labor and material necessary to complete the work described above. Backfilling the voids in the pavers with topsoil and seeding shall be paid for as TOPSOIL FURNISH AND PLACE, 6" and SEEDING, CLASS 2A.

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED)

Description. This work shall be constructed in accordance with Section 606 of the Standard Specifications, details in the plans, and to the lines, grades and cross sections as shown on the plans and as directed by the Engineer.

Basis of Payment. This item will be paid for at the contract unit price per foot for COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MODIFIED). The price shall be payment in full for all labor and material necessary to complete the work described above.

DEWATERING

Description. Work consists of providing labor, tools, equipment, and materials necessary to dewater the related work areas of the Project to relatively dry conditions and maintain suitable working conditions so that the improvements may be constructed in the dry as shown in the plans and as directed by the Engineer.

Materials. Contractor shall be responsible for the choice of the product(s) and equipment as well as "means and methods" for the Site Dewatering Work to be performed subject to the review of the Engineer. All products and "means and methods" selected shall be adequate for the intended use/application. Engineer's review does not relieve the Contractor from

compliance with the requirements of the Drawings and Specifications and the requirements of this special provision.

Submittals. Contractor shall submit to the Engineer for review a description of dewatering techniques and equipment to be used, together with detail drawings showing lengths of discharge piping and point(s) of discharge including erosion control procedures.

The Engineer's review of dewatering techniques and equipment shall in no way be construed as creating any obligation on the part of Engineer for same.

Responsibility. The Contractor shall be solely responsible for the choice of product(s) and equipment; for the design, installation, and operation; as well as "means and methods" of performing the Work; and subsequent removal of dewatering systems and their safety and conformity with local codes, regulations and these Specifications. All product(s), equipment and "means and methods" selected shall be adequate for the intended use/application. Review by Engineer does not relieve Contractor from compliance with the requirements specified herein.

General Requirements. The Contractor shall select the pumps he/she desires to use and the rate at which the pumps discharge, but adequate protection at the pump discharge shall be provided by the Contractor, subject to review by the Engineer. The Contractor shall ensure that downstream water quality shall not be impaired.

At all times during the excavation period and until completion and acceptance of the Work at Final Inspection, ample means and equipment shall be provided with which to remove promptly and dispose of properly all water entering any excavation or any other parts of the Work.

Water pumped or drained from the work required for this Contract shall be disposed of in a safe and suitable manner without damage to adjacent property or streets or to other work under construction. Water shall not be discharged onto streets without adequate protection of the surface at the point of discharge. No water shall be discharged into sanitary sewers. No water containing settleable solids shall be discharged into storm sewers. Any and all damages caused by dewatering the work shall be promptly repaired by the Contractor. The Contractor is responsible for providing any and all labor, materials and equipment needed for the Dewatering in order to meet the scheduled completion of the project.

Basis of Payment. This work will be paid for at the contract unit price for lump sum for DEWATERING. This price shall include all material, equipment, labor, and disposal of material necessary to complete the work as specified herein.

DRAINAGE STRUCTURES WITH SPECIAL FRAMES AND GRATES

Description. This work shall consist of providing catch basins, manholes and inlets with frames, lids and grates for sanitary, water or storm structures in accordance with Village of Algonquin requirements.

Construction Requirements. This work shall be constructed in accordance with Section 602 of the Standard Specifications for storm structures or the Standard Specifications for Water and Sewer Main Construction in Illinois for sanitary and water structures and construction

details in the plans, and shall be constructed to the lines, grades and cross sections as shown on the plans and as directed by the Engineer.

SPECIAL FRAMES AND GRATES, STORM:

Frames and grates to be located in concrete curb and gutter shall be:

Frame: East Jordan Iron Works 7010*

Back: East Jordan Iron Works 7010-T1*

Grate: East Jordan Iron Works 7010-M3* sinusoidal (If slope >3%, use M4 vane)

Frames and grates to be located in depressed concrete curb and gutter shall be:

Frame: East Jordan Iron Works 7065*

Back: East Jordan Iron Works 7060-T1*

Grate: East Jordan Iron Works 7045-M1*

Frames and grates to be located in paved areas shall be:

Frame: East Jordan Iron Works 1050-Z1*

Solid Lid: East Jordan Iron Works 1050-Z1* Flat heavy Duty (with Village logo)

Open Lid: East Jordan Iron Works 1050-Z1 M1* Flat heavy Duty

Frames and grates to be located in non-paved areas shall be:

East Jordan Iron Works 6508* (Open lid, high flow)

*or approved equal

Basis of Payment. These items will be paid for at the contract unit price per each for INLETS, TYPE A WITH SPECIAL FRAME AND GRATE; CATCH BASINS, TYPE A, 4'-DIAMETER WITH SPECIAL FRAME AND GRATE; MANHOLES, TYPE A, 4'-DIAMETER WITH SPECIAL FRAME AND GRATE; MANHOLES, TYPE A, 5'-DIAMETER WITH SPECIAL FRAME AND GRATE; MANHOLES, TYPE A, 6'-DIAMETER WITH SPECIAL FRAME AND GRATE; MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID; and MANHOLES, TYPE A, 9'-DIAMETER WITH SPECIAL FRAME AND GRATE. The price shall be payment in full for all labor and material necessary to complete the work described above.

FENCE REMOVAL

Description. This work shall consist of removing existing fences as shown on the plans or as directed by the Engineer.

Basis of Payment. This work will be paid for at the contract unit price per lineal foot for FENCE REMOVAL, which price shall include all labor, material and equipment as herein specified.

FILL EXISTING SANITARY SEWERS

Description. This work shall consist of completely filling existing sanitary sewers with flowable fill to the satisfaction of the Engineer.

Basis of Payment. This work will be paid for at the contract unit price per cubic yard for FILL EXISTING SANITARY SEWERS, which price shall include all labor, material and equipment as herein specified.

FLASHING BEACON, POST MOUNTED, SOLAR POWERED INSTALLATION

Description. This item shall consist of installing a new post mounted, solar powered flashing beacon installation as shown on the plans and as described herein. The installation of a new post mounted, solar powered flashing beacon shall conform to divisions 800 and 1000 of the Standard Specifications for Road and Bridge Construction except as revised herein.

The Flashing Beacon, Post Mounted, Solar Power Installation shall be a fully compliant with all FHWA and MUTCD guidelines and consist of a Solar Panel, Battery, Controller, Enclosure, Flashing Beacon, Activation Device, Post and Base.

1. Flashing Beacons

The RFB housing shall contain one 12 inch diameter LED yellow light mounted in compliance with MUTCD requirements, but exceeding the minimum MUTCD total light emission requirements. The LEDs used shall be rated for a minimum 15-year life. The RFB shall draw attention at distances greater than 1000 feet during the day and over 1 mile at night.

The RFB housing shall be made of powder-coated aluminum with a minimum thickness of 0.125", and shall provide a mounting mechanism allowing for directional rotation of the light toward oncoming traffic at curves, corners, and roundabouts.

The Controller shall adjust RFB brightness as outside light levels change between day and night, being brighter during the day and less bright at night.

2. Activation Device

The Controller shall be activated by a pushbutton mounted to the pole meeting the requirement of the MUTCD.

3. Post and Base

The post shall be a 6 in. schedule 40 pipe 13 ft. long. One end of the pipe shall be threaded. The base shall be a Traffic Signal Post – Mounting Base – Type A as described in the "District One Standard Traffic Signal Design Details." Both the post and the base shall be hot-dipped galvanized with a black powder coated finish.

All anchor bolts shall be according to Article 1006.09, with all anchor bolts hot dipped galvanized a minimum of 12 in. (300 mm) from the threaded end.

Concrete Foundations, Type "A" for Traffic Signal Posts shall provide anchor bolts with the bolt pattern specified within the "District One Standard Traffic Signal Design Details." All Type "A" foundations shall be a minimum depth of 48 inches.

No foundation is to be poured until the Resident Engineer gives his/her approval as to the depth of the foundation.

Mechanical and Electrical Specifications.

1. **Enclosure.** The Controller shall be housed in a vandal-resistant, aluminum, NEMA 3R pole-mounted cabinet with a lockable, hinged door.
2. **Power.** The Controller unit shall be available in solar 12 VDC, 35 AHr versions, each equipped with a 40W solar panel. Solar-powered systems shall provide a minimum of 15 days of back-up battery power in the absence of sunlight while operating at full brightness and at standard usage levels. The battery shall have a life span of a minimum of 5 years and be field replaceable.

Warranty. The Controller and RFB Crosswalk Lighting System shall be supported by a two year warranty.

Basis of Payment. This work shall be paid for at the contract unit price each for FLASHING BEACON, POST MOUNTED, SOLAR POWERED INSTALLATION. The price shall be payment in full for all labor and material necessary to complete the work described above.

INLET FILTER CLEANING

Description. This work shall consist of picking up silt baskets as provided by the Village of Algonquin, installing them as required by the erosion control plans and cleaning sediment out of the drainage structure inlet filters when directed by the Engineer. This cleaning work is to be periodically performed as directed by the Engineer, for the duration of the use of each drainage structure inlet filter assembly. The Engineer will be the sole judge of the need for cleaning, based on the rate that debris and silt is collected at each inlet filter location.

Cleaning of the inlet filter shall consist of inspecting, cleaning (includes removal and proper disposal of debris and silt that has accumulated in the filter fabric bag), by vactoring, removing and dumping, or any other method approved by the Engineer.

Basis of Payment. This work will be paid for at the contract unit price per each for INLET FILTER CLEANING. The price shall be payment in full for all labor and material necessary to complete the work described above.

INLET PROTECTION, SPECIAL

Description. This work shall consist of constructing, maintaining, removing, and disposing of inlet protection as part of the projects temporary erosion control system.

General. The work shall be performed according to Section 280 of the Standard Specifications, and the following:

The inlet protection shall consist of 12" Coir fiber log or approved equal placed around the perimeter of the inlet. The fiber log shall be supported by oak lath with a minimum of 4 lath per fiber log. The stakes shall be driven into the ground a minimum of 8".



Table 4

Boring No.	Station Limits	Exist. Ground Elev.	Prop. Top of Pavement	Sub-grade Elev.	Treatment	Subgrade Conditions
101	100+86 to 104+00.	873.0	872.8	870.1	None	Sand/Crushed Stone FILL N=23, Wc=5%
102	104+00 to 107+00	875.0	878.0	876.2	None	Proposed FILL
103	107+00 to 110+00	858.5	859.8	858.0	12" PGES & Fabric	Bituminous Concrete/ SAND & GRAVEL
104	110+00 to 113+00	860.0	859.4	857.6	Fabric	Loose Brown SaL N=7, Wc=16%
105	113+00 to 116+00	859.5	860.2	858.4	None	Loose Brown SaL FILL N=10, Qu=2.0 tsf, Wc=13%
106	116+00 to 120+00	847.5	846.7	845.0	Fabric	Loose Brown SaL N=9, Wc=12%
107	120+00 to 124+00	819.0	817.7	815.9	6" PGES & Fabric	Medium Stiff Brown CL N=8, Qu=1.0 tsf, Wc=23%
108	124+00 to 127+50	789.5	790.6	788.8	12" PGES & Fabric	Loose Brown SaL FILL N=9, Qu=0.25 tsf, Wc=12%
4	127+50 to 129+50	777.0	777.3	775.5	12" PGES	Soft Brown SiC FILL N=16, Qu=0.5 tsf, Wc=12%
5	129+50 to 131+00	777.2	777.2	775.4	12" PGES	Soft Brown SaC FILL N=8, Qu=0.5 tsf, Wc=10%
109	131+00 to 134+00	775.5	776.2	774.4	6" PGES & Fabric	Medium Stiff Brown CL FILL N=6, Qu=1.0 tsf, Wc=15%
110	134+00 to 137+00	767.0	767.7	765.9	None	Medium Dense Brown SAND N=11, Wc=9%
111	137+00 to 139+25	760.0	758.9	757.1	6" PGES & Fabric	Stiff Brown SaCL N=18, Qu=1.25 tsf, Wc=16%
112	139+25 to 140+25	754.5	754.4	752.6	None	Very Dense Brown SaL/GRAVEL N=65, Wc=6%
2	140+25 to 140+50	752.0	751.8	750.0	None	Brown SAND FILL N=18, Wc=5%

Note 1: PGES= Porous Granular Embankment, Subgrade

Note 2: Fabric= Geotechnical Fabric for Ground Stabilization

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