



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

April 22, 2014

SUBJECT: FAU 195 (Lake Street)
Section 13-00061-00-WR (Grayslake)
Lake County
Contract No. 61A28
Item 120
April 25, 2014 Letting
Addendum (A)

NOTICE TO PROSPECTIVE BIDDERS:

Due to clarify information necessary to revise the following:

- 1. Revised pages 2 – 12 of the Schedule of Prices.**
- 2. Revised page 4 to the Index of Special Provisions.**
- 3. Added pages 185 – 189 to the Special Provisions.**
- 4. Revised plan sheets 3, 6 & 9.**

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 cursive script, reading "Ted B. Walschleger P.E.", with the initials "P.E." written in a smaller font to the right.

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

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
X8771180	S MAA & P 28 SPL	EACH	1.000 X				
X8771190	S MAA & P 30 SPL	EACH	1.000 X				
X8771210	S MAA & P 34 SPL	EACH	1.000 X				
Z0004510	HMA DRIVEWAY PAVT 3	SQ YD	623.000 X				
Z0004522	HMA DRIVEWAY PAVT 6	SQ YD	109.000 X				
Z0004562	COMB C C&G REM & REPL	FOOT	300.000 X				
Z0007510	ENGINEERED BARRIER *	SQ YD	90.000 X				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.000 X				
Z0017400	DRAIN UTIL STR ADJ	EACH	32.000 X				
Z0017700	DRAIN UTIL STR RECON	EACH	3.000 X				
Z0030850	TEMP INFO SIGNING	SQ FT	167.000 X				
Z0056606	STORM SEW WM REQ 10	FOOT	149.000 X				
Z0056608	STORM SEW WM REQ 12	FOOT	194.000 X				
Z0062456	TEMP PAVEMENT	SQ YD	377.000 X				
Z0073510	TEMP TR SIGNAL TIMING	EACH	1.000 X				

* Revised 4/22 / 2014

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
Z0076600	TRAINEES	HOUR	1,000.000 X	0.80	=	800.00	
Z0076604	TRAINEES TPG	HOUR	1,000.000 X	15.00	=	15,000.00	
20100110	TREE REMOV 6-15	UNIT	68.000 X		=		
20101100	TREE TRUNK PROTECTION	EACH	4.000 X		=		
20101200	TREE ROOT PRUNING	EACH	2.000 X		=		
20101400	NITROGEN FERT NUTR	POUND	90.000 X		=		
20101500	PHOSPHORUS FERT NUTR	POUND	90.000 X		=		
20101600	POTASSIUM FERT NUTR	POUND	90.000 X		=		
20101700	SUPPLE WATERING	UNIT	33.000 X		=		
20200100	EARTH EXCAVATION	CU YD	781.000 X		=		
20201200	REM & DISP UNS MATL	CU YD	796.000 X		=		
20800150	TRENCH BACKFILL	CU YD	437.000 X		=		
21001000	GEOTECH FAB F/GR STAB	SQ YD	2,464.000 X		=		
21101615	TOPSOIL F & P 4	SQ YD	4,320.000 X		=		
25000100	SEEDING CL 1	ACRE	0.900 X		=		

* Revised 4/22/2014

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
25100115	MULCH METHOD 2	ACRE	0.900 X	=	=	=	=
25100630	EROSION CONTR BLANKET	SQ YD	4,320.000 X	=	=	=	=
28000250	TEMP EROS CONTR SEED	POUND	90.000 X	=	=	=	=
28000305	TEMP DITCH CHECKS	FOOT	200.000 X	=	=	=	=
28000400	PERIMETER EROS BAR	FOOT	926.000 X	=	=	=	=
28000510	INLET FILTERS	EACH	56.000 X	=	=	=	=
30300001	AGG SUBGRADE IMPROVE	CU YD	345.000 X	=	=	=	=
30300112	AGG SUBGRADE IMPR 12	SQ YD	2,464.000 X	=	=	=	=
35100300	AGG BASE CSE A 4	SQ YD	675.000 X	=	=	=	=
35100500	AGG BASE CSE A 6	SQ YD	1,109.000 X	=	=	=	=
35400200	PCC BASE CSE W 7	SQ YD	240.000 X	=	=	=	=
35501305	HMA BASE CSE 5 1/4	SQ YD	700.000 X	=	=	=	=
35501314	HMA BASE CSE 7 1/2	SQ YD	360.000 X	=	=	=	=
40600200	BIT MATLS PR CT	TON	15.000 X	=	=	=	=
40600300	AGG PR CT	TON	37.000 X	=	=	=	=

* Revised 4/22/2014

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
40600400	MIX CR JTS FLANGEWYS	TON	3.000 X				
40600827	P LB MM IL-4.75 N50	TON	513.000 X				
40600982	HMA SURF REM BUTT JT	SQ YD	102.000 X				
40603340	HMA SC "D" N70	TON	794.000 X				
42001300	PROTECTIVE COAT	SQ YD	1,807.000 X				
42300200	PCC DRIVEWAY PAVT 6	SQ YD	30.000 X				
42400200	PC CONC SIDEWALK 5	SQ FT	5,250.000 X				
42400410	PC CONC SIDEWALK 8	SQ FT	540.000 X				
42400800	DETECTABLE WARNINGS	SQ FT	114.000 X				
44000157	HMA SURF REM 2	SQ YD	7,525.000 X				
44000200	DRIVE PAVEMENT REM	SQ YD	890.000 X				
44000300	CURB REM	FOOT	205.000 X				
44000500	COMB CURB GUTTER REM	FOOT	2,000.000 X				
44000600	SIDEWALK REM	SQ FT	5,150.000 X				
44201681	CL D PATCH T1 3	SQ YD	130.000 X				

* Revised 4/22/2014

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FAU 195
 13-00061-00-WR (GRAYSLAKE)
 LAKE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF PRICES
 CONTRACT NUMBER - 61A28

ECMS002 DTGECM03 ECMR003 PAGE 6
 RUN DATE - 04/21/14
 RUN TIME - 183128

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
44201682	CL D PATCH T2 3	SQ YD	205.000 X	=	=	=	=
44201683	CL D PATCH T3 3	SQ YD	269.000 X	=	=	=	=
44201684	CL D PATCH T4 3	SQ YD	347.000 X	=	=	=	=
44201713	CL D PATCH T1 6	SQ YD	76.000 X	=	=	=	=
44201717	CL D PATCH T2 6	SQ YD	301.000 X	=	=	=	=
44201721	CL D PATCH T3 6	SQ YD	377.000 X	=	=	=	=
44201723	CL D PATCH T4 6	SQ YD	753.000 X	=	=	=	=
44300200	STRIP REF CR CON TR	FOOT	4,417.000 X	=	=	=	=
50105220	PIPE CULVERT REMOV	FOOT	281.000 X	=	=	=	=
550A2310	SS RG CL A 1 10	FOOT	226.000 X	=	=	=	=
550A2320	SS RG CL A 1 12	FOOT	458.000 X	=	=	=	=
550A2330	SS RG CL A 1 15	FOOT	51.000 X	=	=	=	=
550A2510	SS RG CL A 2 10	FOOT	24.000 X	=	=	=	=
550A2520	SS RG CL A 2 12	FOOT	255.000 X	=	=	=	=
550A2530	SS RG CL A 2 15	FOOT	14.000 X	=	=	=	=

* Revised 4/22/2014

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
55100300	STORM SEWER REM 8	FOOT	34.000 X	=	=	=	=
55100500	STORM SEWER REM 12	FOOT	290.000 X	=	=	=	=
55100700	STORM SEWER REM 15	FOOT	40.000 X	=	=	=	=
55101600	STORM SEWER REM 36	FOOT	12.000 X	=	=	=	=
56400300	FIRE HYDNTS TO BE ADJ	EACH	1.000 X	=	=	=	=
56400400	FIRE HYDNTS RELOCATED	EACH	3.000 X	=	=	=	=
56500600	DOM WAT SER BOX ADJ	EACH	10.000 X	=	=	=	=
60107600	PIPE UNDERDRAINS 4	FOOT	80.000 X	=	=	=	=
60200805	CB TA 4 DIA T8G	EACH	2.000 X	=	=	=	=
60201105	CB TA 4 DIA T11F&G	EACH	6.000 X	=	=	=	=
60207605	CB TC T8G	EACH	1.000 X	=	=	=	=
60207905	CB TC T11F&G	EACH	8.000 X	=	=	=	=
60218400	MAN TA 4 DIA T1F CL	EACH	1.000 X	=	=	=	=
60221000	MAN TA 5 DIA T1F OL	EACH	2.000 X	=	=	=	=
60235300	INLETS TA T1F CL	EACH	1.000 X	=	=	=	=

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FAU 195
 13-00061-00-WR (GRAYSLAKE)
 LAKE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF PRICES
 CONTRACT NUMBER - 61A28

ECMS002 DTGECM03 ECMR003 PAGE 8
 RUN DATE - 04/21/14
 RUN TIME - 183128

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
60236200	INLETS TA T8G	EACH	12.000 X		=		
60236800	INLETS TA T11F&G	EACH	8.000 X		=		
60240310	INLETS TB T11F&G	EACH	1.000 X		=		
60406100	FR & LIDS T1 CL	EACH	2.000 X		=		
60500050	REMOV CATCH BAS	EACH	2.000 X		=		
60500060	REMOV INLETS	EACH	8.000 X		=		
60600605	CONC CURB TB	FOOT	22.000 X		=		
60603800	COMB CC&G TB6.12	FOOT	4,900.000 X		=		
66900200	NON SPL WASTE DISPOS	CU YD	850.000 X		=		
66900450	SPL WASTE PLNS/REPORT	L SUM	1.000 X		=		
66900530	SOIL DISPOSAL ANALY	EACH	5.000 X		=		
67100100	MOBILIZATION	L SUM	1.000 X		=		
70102620	TR CONT & PROT 701501	L SUM	1.000 X		=		
70102635	TR CONT & PROT 701701	L SUM	1.000 X		=		
70102640	TR CONT & PROT 701801	L SUM	1.000 X		=		

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
70300100	SHORT TERM PAVT MKING	FOOT	1,909.000 X	=	=	=	=
70300220	TEMP PVT MK LINE 4	FOOT	10,200.000 X	=	=	=	=
70300240	TEMP PVT MK LINE 6	FOOT	1,940.000 X	=	=	=	=
70300260	TEMP PVT MK LINE 12	FOOT	1,120.000 X	=	=	=	=
70300280	TEMP PVT MK LINE 24	FOOT	294.000 X	=	=	=	=
70301000	WORK ZONE PAVT MK REM	SQ FT	637.000 X	=	=	=	=
72000100	SIGN PANEL T1	SQ FT	12.000 X	=	=	=	=
72000200	SIGN PANEL T2	SQ FT	30.000 X	=	=	=	=
78000100	THPL PVT MK LTR & SYM	SQ FT	185.000 X	=	=	=	=
78000200	THPL PVT MK LINE 4	FOOT	5,100.000 X	=	=	=	=
78000400	THPL PVT MK LINE 6	FOOT	970.000 X	=	=	=	=
78000600	THPL PVT MK LINE 12	FOOT	560.000 X	=	=	=	=
78000650	THPL PVT MK LINE 24	FOOT	147.000 X	=	=	=	=
78100100	RAISED REFL PAVT MKR	EACH	22.000 X	=	=	=	=
78300200	RAISED REF PVT MK REM	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
80500020	SERV INSTALL POLE MT	EACH	1.000 X	=	=	=	=
81028200	UNDRGRD C GALVS 2	FOOT	744.000 X	=	=	=	=
81028210	UNDRGRD C GALVS 2 1/2	FOOT	34.000 X	=	=	=	=
81028220	UNDRGRD C GALVS 3	FOOT	46.000 X	=	=	=	=
81028240	UNDRGRD C GALVS 4	FOOT	341.000 X	=	=	=	=
81400100	HANDHOLE	EACH	6.000 X	=	=	=	=
81400200	HD HANDHOLE	EACH	4.000 X	=	=	=	=
81400300	DBL HANDHOLE	EACH	1.000 X	=	=	=	=
85700200	FAC T4 CAB	EACH	1.000 X	=	=	=	=
87301215	ELCBL C SIGNAL 14 2C	FOOT	1,104.000 X	=	=	=	=
87301225	ELCBL C SIGNAL 14 3C	FOOT	1,371.000 X	=	=	=	=
87301245	ELCBL C SIGNAL 14 5C	FOOT	763.000 X	=	=	=	=
87301255	ELCBL C SIGNAL 14 7C	FOOT	1,724.000 X	=	=	=	=
87301305	ELCBL C LEAD 14 1PR	FOOT	1,433.000 X	=	=	=	=
87301805	ELCBL C SERV 6 2C	FOOT	93.000 X	=	=	=	=

* Revised 4/22/2014

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
87301900	ELCBL C EGRDC 6 1C	FOOT	1,232.000 X	=	=	=	=
87800100	CONC FDN TY A	FOOT	16.000 X	=	=	=	=
87800150	CONC FDN TY C	FOOT	4.000 X	=	=	=	=
87800400	CONC FDN TY E 30D	FOOT	30.000 X	=	=	=	=
87800415	CONC FDN TY E 36D	FOOT	30.000 X	=	=	=	=
88030020	SH LED 1F 3S MAM	EACH	2.000 X	=	=	=	=
88030110	SH LED 1F 5S MAM	EACH	6.000 X	=	=	=	=
88030220	SH LED 2F 5S BM	EACH	2.000 X	=	=	=	=
88030240	SH LED 2F 1-3 1-5 BM	EACH	2.000 X	=	=	=	=
88102717	PED SH LED 1F BM CDT	EACH	8.000 X	=	=	=	=
88200110	TS BACKPLATE LOUVERED	EACH	8.000 X	=	=	=	=
88500100	INDUCTIVE LOOP DETECT	EACH	8.000 X	=	=	=	=
88600100	DET LOOP T1	FOOT	794.000 X	=	=	=	=
88700200	LIGHT DETECTOR	EACH	2.000 X	=	=	=	=
88700300	LIGHT DETECTOR AMP	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
88800100	PED PUSH-BUTTON	EACH	8.000 X	=			
89000100	TEMP TR SIG INSTALL	EACH	1.000 X	=			
89500120	REM EX SERV INSTALL	EACH	1.000 X	=			
89502300	REM ELCBL FR CON	FOOT	2,835.000 X	=			
89502375	REMOV EX TS EQUIP	EACH	1.000 X	=			
89502380	REMOV EX HANDHOLE	EACH	6.000 X	=			
89502382	REMOV EX DBL HANDHOLE	EACH	1.000 X	=			
89502385	REMOV EX CONC FDN	EACH	12.000 X	=			

TOTAL \$

* Revised 4/22/2014

- 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.

INDEX OF SPECIAL PROVISIONS (CONT.)

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REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES

Revise Article 669.01 of the Standard Specifications to read:

“669.01 Description. This work shall consist of the transportation and proper disposal of contaminated soil and water. This work shall also consist of the removal, transportation, and proper disposal of underground storage tanks (UST), their content and associated underground piping to the point where the piping is above the ground, including determining the content types and estimated quantities.”

Revise Article 669.08 of the Standard Specifications to read:

“669.08 Contaminated Soil and/or Groundwater Monitoring. The Contractor shall hire a qualified environmental firm to monitor the area containing the regulated substances. The affected area shall be monitored with a photoionization detector (PID) utilizing a lamp of 10.6eV or greater or a flame ionization detector (FID). Any field screen reading on the PID or FID in excess of background levels indicates the potential presence of contaminated material requiring handling as a non-special waste, special waste, or hazardous waste. No excavated soils can be taken to a clean construction and demolition debris (CCDD) facility or an uncontaminated soil fill operation with detectable PID or FID meter readings that are above background. The PID or FID meter shall be calibrated on-site and background level readings taken and recorded daily. All testing shall be done by a qualified engineer/technician. Such testing and monitoring shall be included in the work. The Contractor shall identify the exact limits of removal of non-special waste, special waste, or hazardous waste. All limits shall be approved by the Engineer prior to excavation. The Contractor shall take all necessary precautions.

Based upon the land use history of the subject property and/or PID or FID readings indicating contamination, a soil or groundwater sample shall be taken from the same location and submitted to an approved laboratory. Soil or groundwater samples shall be analyzed for the contaminants of concern, including pH, based on the property's land use history or the parameters listed in the maximum allowable concentration (MAC) for chemical constituents in uncontaminated soil established pursuant to Subpart F of 35 Illinois Administrative Code 1100.605. The analytical results shall serve to document the level of soil contamination. Soil and groundwater samples may be required at the discretion of the Engineer to verify the level of soil and groundwater contamination.

Samples shall be grab samples (not combined with other locations). The samples shall be taken with decontaminated or disposable instruments. The samples shall be placed in sealed containers and transported in an insulated container to the laboratory. The container shall maintain a temperature of 39 °F (4 °C). All samples shall be clearly labeled. The labels shall indicate the sample number, date sampled, location and elevation, and any other observations.

The laboratory shall use analytical methods which are able to meet the lowest appropriate practical quantitation limits (PQL) or estimated quantitation limit (EQL) specified in "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods", EPA Publication No. SW-846 and "Methods for the Determination of Organic Compounds in Drinking Water", EPA, EMSL, EPA-600/4-88/039. For parameters where the specified cleanup objective is below the acceptable detection limit (ADL), the ADL shall serve as the cleanup objective. For other parameters the ADL shall be equal to or below the specified cleanup objective.”

Replace the first two paragraphs of Article 669.09 of the Standard Specifications with the following:

“669.09 Contaminated Soil and/or Groundwater Management and Disposal. The management and disposal of contaminated soil and/or groundwater shall be according to the following:

(a) **Soil Analytical Results Exceed Most Stringent MAC.** When the soil analytical results indicate that detected levels exceed the most stringent maximum allowable concentration (MAC) for chemical constituents in uncontaminated soil established pursuant to Subpart F of 35 Illinois Administrative Code 1100.605, the soil shall be managed as follows:

(1) When analytical results indicate inorganic chemical constituents exceed the most stringent MAC but they are still considered within area background levels by the Engineer, the excavated soil can be utilized within the construction limits as fill, when suitable. Such soil excavated for storm sewers can be placed back into the excavated trench as backfill, when suitable, unless trench backfill is specified. If the soils cannot be utilized within the construction limits, they shall be managed and disposed of off-site as a non-special waste, special waste, or hazardous waste as applicable.

(2) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for a Metropolitan Statistical Area (MSA) County, the excavated soil can be utilized within the construction limits as fill, when suitable, or managed and disposed of off-site as “uncontaminated soil” at a CCDD facility or an uncontaminated soil fill operation within an MSA County provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.

(3) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for an MSA County excluding Chicago, or the MAC within the Chicago corporate limits, the excavated soil can be utilized within the construction limits as fill, when suitable, or managed and disposed of off-site as “uncontaminated soil” at a CCDD facility or an uncontaminated soil fill operation within an MSA County excluding Chicago or within the Chicago corporate limits provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.

(4) When analytical results indicate chemical constituents exceed the most stringent MAC but do not exceed the MAC for an MSA County excluding Chicago, the excavated soil can be utilized within the construction limits as fill, when suitable, or managed and disposed of off-site as “uncontaminated soil” at a CCDD facility or an uncontaminated soil fill operation within an MSA County excluding Chicago provided the pH of the soil is within the range of 6.25 - 9.0, inclusive.

(5) When the Engineer determines soil cannot be managed according to Articles 669.09(a)(1) through (a)(4) above, the soil shall be managed and disposed of off-site as a non-special waste, special waste, or hazardous waste as applicable.

(b) **Soil Analytical Results Do Not Exceed Most Stringent MAC.** When the soil analytical results indicate that detected levels do not exceed the most stringent MAC, the excavated soil can be utilized within the construction limits or managed and disposed of off-site as “uncontaminated soil” according to Article 202.03. However the excavated soil cannot be taken to a CCDD facility or an uncontaminated soil fill operation for the following reason.

(1) The pH of the soil is less than 6.25 or greater than 9.0.

(2) The soil exhibited elevated photoionization detector (PID) utilizing a lamp of 10.6eV or greater or a flame ionization detector (FID) readings.

(c) Soil Analytical Results Exceed Most Stringent MAC but Do Not Exceed TACO Residential. When the soil analytical results indicate that detected levels exceed the most stringent MAC but do not exceed TACO Tier 1 Soil Remediation Objectives for Residential Properties pursuant to 35 IAC 742 Appendix B Table A, the excavated soil can be utilized within the right-of-way or managed and disposed of off-site as "uncontaminated soil" according to Article 202.03. However the excavated soil cannot be taken to a CCDD facility or an uncontaminated soil fill operation.

(d) Groundwater. When groundwater analytical results indicate the detected levels are above Appendix B, Table E of 35 Illinois Administrative Code 742, the most stringent Tier 1 Groundwater Remediation Objectives for Groundwater Component of the Groundwater Ingestion Route for Class 1 groundwater, the groundwater shall be managed off-site as a special waste.

All groundwater encountered within lateral trenches may be managed within the trench and allowed to infiltrate back into the ground. If the groundwater cannot be managed within the trench it must be removed as a special or hazardous waste. The Contractor is prohibited from managing groundwater within the trench by discharging it through any existing or new storm sewer. The Contractor shall install backfill plugs within the area of groundwater contamination.

One backfill plug shall be placed down gradient to the area of groundwater contamination. Backfill plugs shall be installed at intervals not to exceed 50 ft (15 m). Backfill plugs are to be 4 ft (1.2 m) long, measured parallel to the trench, full trench width and depth. Backfill plugs shall not have any fine aggregate bedding or backfill, but shall be entirely cohesive soil or any class of concrete. The Contractor shall provide test data that the material has a permeability of less than 10^{-7} cm/sec according to ASTM D 5084, Method A or per another test method approved by the Engineer."

Revise Article 669.14 of the Standard Specifications to read:

"669.14 Final Environmental Construction Report. At the end of the project, the Contractor will prepare and submit three copies of the Environmental Construction Report on the activities conducted during the life of the project, one copy shall be submitted to the Resident Engineer, one copy shall be submitted to the District's Environmental Studies Unit, and one copy shall be submitted with an electronic copy in Adode.pdf format to the Geologic and Waste Assessment Unit, Bureau of Design and Environment, IDOT, 2300 South Dirksen Parkway, Springfield, Illinois 62764. The technical report shall include all pertinent information regarding the project including, but not limited to:

(a) Measures taken to identify, monitor, handle, and dispose of soil or groundwater containing regulated substances, to prevent further migration of regulated substances, and to protect workers,

(b) Cost of identifying, monitoring, handling, and disposing of soil or groundwater containing regulated substances, the cost of preventing further migration of regulated substances, and the cost for worker protection from the regulated substances. All cost should be in the format of the contract pay items listed in the contract plans (identified by the preliminary environmental site assessment (PESA) site number),

(c) Plan sheets showing the areas containing the regulated substances,

- (d) Field sampling and testing results used to identify the nature and extent of the regulated substances,
- (e) Waste manifests (identified by the preliminary environmental site assessment (PESA) site number) for special or hazardous waste disposal, and
- (f) Landfill tickets (identified by the preliminary environmental site assessment (PESA) site number) for non-special waste disposal.”

Revise the second paragraph of Article 669.16 of the Standard Specifications to read:

“The transportation and disposal of soil and other materials from an excavation determined to be contaminated will be paid for at the contract unit price per cubic yard (cubic meter) for NON-SPECIAL WASTE DISPOSAL, SPECIAL WASTE DISPOSAL, or HAZARDOUS WASTE DISPOSAL.”

Qualifications. The term environmental firm shall mean an environmental firm with at least five (5) documented leaking underground storage tank (LUST) cleanups or that is pre-qualified in hazardous waste by the Department. Documentation includes but not limited to verifying remediation and special waste operations for sites contaminated with gasoline, diesel, or waste oil in accordance with all Federal, State, or local regulatory requirements and shall be provided to the Engineer for approval. The environmental firm selected shall not be a former or current consultant or have any ties with any of the properties contained within and/or adjacent to this construction project.

General. This Special Provision will likely require the Contractor to subcontract for the execution of certain activities.

All contaminated materials shall be managed as either “uncontaminated soil” or non-special waste. This work shall include monitoring and potential sampling, analytical testing, and management of a material contaminated by regulated substances. The Environmental Firm shall continuously monitor all soil excavation for worker protection and soil contamination. **Phase I Preliminary Engineering information is available through the District’s Environmental Studies Unit.** Soil samples or analysis without the approval of the Engineer will be at no additional cost to the Department. The lateral distance is measured from centerline and the farthest distance is the offset distance or construction limit whichever is less.

The Contractor shall manage any excavated soils and sediment within the following areas:

- Station 53+50 to Station 54+50 (IL 120 – Belvidere Road) 0 to 100 feet LT (Vacant Building #1, PESA Site 2771-4, 2 West Belvidere Road). This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Benzene, Toluene, Xylenes, Naphthalene, Lead, and Manganese.
- Station 29+00 to Station 31+00 (Lake Street) 0 to 40 feet RT (Westlake Christian Academy, PESA Site 2771-5, 275 South Lake Street). This material meets the criteria of Article 669.09(a)(5) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Benzo(a)Anthracene, Benzo(a)Pyrene, Benzo(b)Fluoranthene, Carbazole, Dibenzo(a,h)Anthracene, Indeno(1,2,3-cd)Pyrene, Arsenic, Lead, and Manganese.
- Station 51+60 to Station 53+00 (IL 120 – Belvidere Road) 0 to 40 feet LT (Residential Building, PESA Site 2771-2, 42-84 West Belvidere Road). This material meets the criteria of

Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.

- Station 53+00 to Station 53+50 (IL 120 – Belvidere Road) 0 to 40 feet LT (Vacant Building #1, PESA Site 2771-4, 2 West Belvidere Road). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Benzo(a)Pyrene.
- Station 24+80 to Station 28+00 (Lake Street) 0 to 60 feet LT (Vacant Building #2, PESA Site 2771-3, 302 South Lake Street). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Lead and Manganese.
- Station 24+80 to Station 28+00 (Lake Street) 0 to 80 feet RT (Nordic Properties, PESA Site 2771-6, 31 East Belvidere Road). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Lead and Manganese.
- Station 29+00 to Station 29+50 (Lake Street) 0 to 60 feet LT (Vacant Building #1, PESA Site 2771-4, 2 West Belvidere Road). This material meets the criteria of Article 669.09(a)(1) and shall be managed in accordance to Article 669.09. Contaminants of concern sampling parameters: Manganese.
- Station 29+50 to Station 30+00 (Lake Street) 0 to 60 feet LT (Vacant Building #1, PESA Site 2771-4, 2 West Belvidere Road). This material meets the criteria of Article 669.09(b)(1) and shall be managed in accordance to Article 669.09.

Engineered Barrier. An engineered barrier shall be installed in storm sewer trenches between Station 53+50 to Station 54+50 (IL 120 – Belvidere Road) 0 to 40 feet LT (Vacant Building #1, PESA Site 2771-4, 2 West Belvidere Road) to limit the exposure and control the migration of contamination from the contaminated soil that remains within the trench excavation. It shall be placed beneath the trench backfill material.

The engineered barrier shall consist of a geosynthetic clay liner system, geomembrane liner, or equivalent material as approved by the Engineer. A geosynthetic clay liner shall be composed of a bentonite clay liner approximately 6.4 millimeters (0.25 inches) thick. The engineered barrier shall have a permeability of less than 10^{-7} cm/sec. Installation of the geosynthetic clay liner system shall be in accordance with the manufacturer's recommendations except that all laps shall face down-slope.

The geomembrane liner shall have a minimum thickness of 30 mil. The geomembrane liner shall line the entire trench and in accordance with the manufacturer's recommendations.

No equipment will be allowed on the engineered barrier until it is covered by a minimum of 305 millimeters (1 foot) of backfill. Any damage to the engineered barrier caused by the Contractor shall be repaired at no additional expense to the Department in accordance with the manufacturer's recommendations and as directed by the Engineer.

Method of Measurement. Engineered barrier will be measured for payment in place and the area computed in square meters (square yards).

Basis of Payment. The engineered barrier will be paid for at the contract unit price per square meters (square yards) for ENGINEERED BARRIER.