



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

April 15, 2010

SUBJECT: FAP 347 (Roosevelt Road)
Project TE-00D1(818)
Section 09-00248-00-RS (Oak Park)
Cook County
Contract No. 63432
Item 331
April 23, 2010 Letting
Addendum (A)

TO PROSPECTIVE BIDDERS:

Due to clarify information necessary to revise the following:

Proposal – Replaced the Schedule of Prices, Revised Index of Special Provisions, Revised pages 2, 85, 96 & 97 of the special provisions, Added pages 276, 277 & 278 to the special provisions.

Plans – Sheets 2, 3, 4, 21, 103 & 221.

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
Acting Engineer of Design and Environment

A handwritten signature in cursive script, reading "Ted B. Walschleger" followed by a small "P.E." to the right.

By: Ted B. Walschleger
Engineer of Project Development
and Implementation

COUNTY NAME	CODE	DIST	SECTION NUMBER	PROJECT NUMBER		ROUTE	
				TE-00D1/818/000	FAP 347		
COOK	031	01	09-00248-00-RS (OAK PARK)	TE-00D1/818/000	FAP 347		
ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE DOLLARS	CENTS	TOTAL PRICE DOLLARS	CTS
A2004424	T-GINKGO BILOBA 3	EACH	7.000 X				
A2004824	T-GLED TRI-I SK 3	EACH	14.000 X				
A2005024	T-GYMNOCOLA DIO 3	EACH	14.000 X				
A2008750	T-ULMUS X PAT PE 3 TF	EACH	6.000 X				
B2005524	T-PYRUS C AR TF 3	EACH	19.000 X				
B2005726	T-PYRUS C CH TF 3	EACH	2.000 X				
C2C072G3	S-ROSA FLWR CR CG 3G	EACH	235.000 X				
C2C10218	S-SPIREA JAP LP 18C	EACH	13.000 X				
LR420010	PCC PVMT SPL	SQ YD	2,215.000 X				
LR430050	CONC PAVER SIDEWALK	SQ YD	2,640.000 X				
XX000541	EXPLOR EXCAVATION	CU YD	16.000 X				
XX000856	MAILBOX REM & RELOC	EACH	6.000 X				
XX001011	BICYCLE RACKS	EACH	12.000 X				
XX001164	LUMINAIRE HPS SPL	EACH	2.000 X				
XX001532	PROJECT SIGN	EACH	8.000 X				

Revised 4-15-10

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
XX002258	STRUCTURE ADJ	EACH	243.000 X				
XX002948	TEMPORARY ACCESS WALK	EACH	310.000 X				
XX003614	REC (GFI) WEATHER CVR	EACH	60.000 X				
XX004101	ORNAMENT METAL FENCE	FOOT	75.000 X				
XX004533	SOIL PLANT MIX	CU YD	346.000 X				
XX004895	PIPE UNDERDRN CLN OUT	EACH	67.000 X				
XX005043	ORNAMENTAL SIGN POST	EACH	100.000 X				
XX005735	PLANTER CURB	FOOT	2,143.000 X				
XX006736	PLANTER FENCE (SPL)	FOOT	2,143.000 X				
XX006775	ARC CON BNCH PLANT SY	EACH	47.000 X				
XX006783	SIGN PANEL F & I	EACH	126.000 X				
XX007215	CONCRETE PLANTER WALL	CU YD	15.000 X				
XX007877	BICYCLE RACKS FURNISH	EACH	13.000 X				
XX007978	ARCHITECT LT SYSTEM	EACH	10.000 X				
XX007980	PLANT SOIL, F & P 24"	SQ YD	540.000 X				

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
X0301578	REM EXIST EQUIP	L SUM	1.000 X	=	=	=	=
X0301828	ENGINEERED BARRIER	SQ YD	150.000 X	=	=	=	=
X0321631	REMOVE LUMINAIRE	EACH	2.000 X	=	=	=	=
X0321905	SS 1 WAT MN 12	FOOT	2,453.000 X	=	=	=	=
X0322712	STREET NAME SIGN	EACH	124.000 X	=	=	=	=
X0322917	PRO SS CONN TO EX MAN	EACH	32.000 X	=	=	=	=
X0323434	FILL EXIST STRUCT	EACH	35.000 X	=	=	=	=
X0323574	MAINTAIN LIGHTING SYS	CAL MO	16.000 X	=	=	=	=
X0325737	TEMP TR SIGNAL TIMING	EACH	5.000 X	=	=	=	=
X0326263	EQUIPMENT CABINET	EACH	20.000 X	=	=	=	=
X0326654	ORNAM LIGHT UNIT COMP	EACH	117.000 X	=	=	=	=
X0326737	SAN SWRPVC SDR 26WMMQ8	FOOT	2,233.000 X	=	=	=	=
X0350800	BOLLARDS	EACH	3.000 X	=	=	=	=
X0539800	TREE GRATES	EACH	21.000 X	=	=	=	=
X4022000	TEMP ACCESS- COM ENT	EACH	60.000 X	=	=	=	=

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
X4023000	TEMP ACCESS- ROAD	EACH	41.000 X	=			
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.000 X	=			
Z0018500	DRAINAGE STR CLEANED	EACH	84.000 X	=			
Z0018900	DRILL-GROUT DOW BARS	EACH	11,598.000 X	=			
Z0019600	DUST CONTROL WATERING	UNIT	100.000 X	=			
Z0076600	TRAINEES	HOUR	2,500.000 X	=	0.80		2,000.00
20100110	TREE REMOV 6-15	UNIT	40.000 X	=			
20101000	TEMPORARY FENCE	FOOT	39,000 X	=			
20101200	TREE ROOT PRUNING	EACH	17,000 X	=			
20101350	TREE PRUN OVER 10	EACH	17,000 X	=			
20800150	TRENCH BACKFILL	CU YD	3,694.000 X	=			
21101615	TOPSOIL F & P 4	SQ YD	2,586.000 X	=			
21101810	COMPOST F & P 3	SQ YD	456.000 X	=			
25000400	NITROGEN FERT NUTR	POUND	12,000 X	=			
25000500	PHOSPHORUS FERT NUTR	POUND	4,000 X	=			

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
25000600	POTASSIUM FERT NUTR	POUND	8.000 X	=		=	
25200110	SODDING SALT TOLERANT	SQ YD	2,716.000 X	=		=	
25400100	PERENNIAL PLANTS	UNIT	16.000 X	=		=	
28000400	PERIMETER EROS BAR	FOOT	117.000 X	=		=	
28000510	INLET FILTERS	EACH	133.000 X	=		=	
28200200	FILTER FABRIC	SQ YD	1,742.000 X	=		=	
31101000	SUB GRAN MAT B	TON	10,643.000 X	=		=	
35200600	EARTH EXC	CU YD	9,490.000 X	=		=	
35300500	PCC BSE CSE 10	SQ YD	1,138.000 X	=		=	
35400500	PCC BASE CSE W 10	SQ YD	82.000 X	=		=	
40300200	BIT MATLS PR CT	TON	90.200 X	=		=	
40600300	AGG PR CT	TON	111.000 X	=		=	
40600525	LEV BIND HM N50	TON	60.000 X	=		=	
40600895	CONSTRUC TEST STRIP	EACH	2.000 X	=		=	
40600982	HMA SURF REM BUTT JT	SQ YD	4,326.000 X	=		=	

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
40603240	P HMA BC IL19.0 N90	TON	6,164.000 X				
40603595	P HMA SC "F" N90	TON	4,315.000 X				
42001300	PROTECTIVE COAT	SQ YD	21,429.000 X				
42300400	PCC DRIVEWAY PAVT 8	SQ YD	1,249.000 X				
42400430	PC CONC SIDEWALK 5 SP	SQ FT	131,570.000 X				
42400800	DETECTABLE WARNINGS	SQ FT	1,028.000 X				
44000100	PAVEMENT REM	SQ YD	5,779.000 X				
44000198	HMA SURF REM VAR DP	SQ YD	41,766.000 X				
44000200	DRIVE PAVEMENT REM	SQ YD	1,289.000 X				
44000500	COMB CURB GUTTER REM	FOOT	17,385.000 X				
44000600	SIDEWALK REM	SQ FT	106,149.000 X				
44002000	CONC CURB REMOV	FOOT	45.000 X				
44201325	CL C PATCH T1 8	SQ YD	7.000 X				
44201329	CL C PATCH T2 8	SQ YD	11.000 X				
44201737	CL D PATCH T1 8	SQ YD	4.000 X				

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FAP 347
 09-00248-00-RS (OAK PARK)
 COOK

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF PRICES
 CONTRACT NUMBER - 63432

ECMS002 DTGECM03 ECMR003 PAGE 7
 RUN DATE - 04/14/10
 RUN TIME - 193038

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
44201741	CL D PATCH T2 8	SQ YD	44.000 X	=			
44201745	CL D PATCH T3 8	SQ YD	237.000 X	=			
44201747	CL D PATCH T4 8	SQ YD	577.000 X	=			
44300100	AREA REF CR CON TREAT	SQ YD	43,074.000 X	=			
50800305	WELD WIRE FAB 6X6	SQ YD	6,231.000 X	=			
55039700	SS CLEANED	FOOT	14,357.000 X	=			
56400100	FIRE HYDNTS TO BE MVD	EACH	1.000 X	=			
56500600	DOM WAT SER BOX ADJ	EACH	172.000 X	=			
60107600	PIPE UNDERDRAINS 4	FOOT	959.000 X	=			
60200105	CB TA 4 DIA T1F OL	EACH	95.000 X	=			
60218400	MAN TA 4 DIA T1F CL	EACH	61.000 X	=			
60221100	MAN TA 5 DIA T1F CL	EACH	9.000 X	=			
60250200	CB ADJUST	EACH	80.000 X	=			
60500040	REMOV MANHOLES	EACH	9.000 X	=			
60500050	REMOV CATCH BAS	EACH	15.000 X	=			

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
60600605	CONC CURB TB	FOOT	200.000 X	=			
60611600	COMB CC&G SPL	FOOT	18,961.000 X	=			
66900200	NON SPL WASTE DISPOS	CU YD	715.000 X	=			
66900450	SPL WASTE PLNS/REPORT	L SUM	1.000 X	=			
66900530	SOIL DISPOSAL ANALY	EACH	5.000 X	=			
67000400	ENGR FIELD OFFICE A	CAL MO	15.000 X	=			
67100100	MOBILIZATION	L SUM	1.000 X	=			
70101800	TRAF CONT & PROT SPL	L SUM	1.000 X	=			
70300220	TEMP PVT MK LINE 4	FOOT	67,922.000 X	=			
70300240	TEMP PVT MK LINE 6	FOOT	7,579.000 X	=			
70300260	TEMP PVT MK LINE 12	FOOT	1,519.000 X	=			
70300280	TEMP PVT MK LINE 24	FOOT	3,153.000 X	=			
72000100	SIGN PANEL T.1	SQ FT	256.000 X	=			
72400100	REMOV SIN PAN ASSY TA	EACH	76.000 X	=			
72400310	REMOV SIGN PANEL T.1	SQ FT	398.000 X	=			

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ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF PRICES
 CONTRACT NUMBER - 63432

ECMS002 DTGECM03 ECMR003 PAGE 9
 RUN DATE - 04/14/10
 RUN TIME - 193038

ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
72400710	RELOC SIGN PANEL T1	SQ FT	1,086.000 X	=			
78000100	THPL PVT MK LTR & SYM	SQ FT	1,555.000 X	=			
78000200	THPL PVT MK LINE 4	FOOT	14,304.000 X	=			
78000400	THPL PVT MK LINE 6	FOOT	5,382.000 X	=			
78000600	THPL PVT MK LINE 12	FOOT	298.000 X	=			
78000650	THPL PVT MK LINE 24	FOOT	925.000 X	=			
78100100	RAISED REFL PAVT MKR	EACH	402.000 X	=			
78300200	RAISED REF PVT MK REM	EACH	402.000 X	=			
80400100	ELECT SERV INSTALL	EACH	6.000 X	=			
81000800	CON T 3 GALVS	FOOT	1,400.000 X	=			
81018700	CON P 3 GALVS	FOOT	4,600.000 X	=			
81400100	HANDHOLE	EACH	77.000 X	=			
81400115	HANDHOLE TO BE ADJUST	EACH	59.000 X	=			
81400215	HD HANDHOLE TO BE ADJ	EACH	9.000 X	=			
81603130	UD 2#10#10GEPRRH 3/4	FOOT	1,310.000 X	=			

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ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	UNIT PRICE		TOTAL PRICE	
				DOLLARS	CENTS	DOLLARS	CTS
81603150	UD 2#4 #6G EPRRHW 1	FOOT	6,919.000 X	=			
81603200	UD 3#2#4GEPRRHW 1 1/4	FOOT	2,700.000 X	=			
81603210	UD 3#4#6GEPRRHW 1 1/4	FOOT	13,377.000 X	=			
81700110	EC C EPR RHW 1C 10	FOOT	15,620.000 X	=			
81700355	EC C EPR RHW 3-1C 2	FOOT	1,540.000 X	=			
81900200	TR & BKFIL F ELECT WK	FOOT	23,762.000 X	=			
82500360	LT CONT BASEM 480V100	EACH	6.000 X	=			
83600200	LIGHT POLE FDN 24D	FOOT	1,524.000 X	=			
84200500	REM LT UNIT SALV	EACH	7.000 X	=			
84200600	REM LT U NO SALV	EACH	138.000 X	=			
84200804	REM POLE FDN	EACH	137.000 X	=			
84500110	REMOV LIGHTING CONTR	EACH	5.000 X	=			
84500120	REMOV ELECT SERV INST	EACH	5.000 X	=			
84500130	REMOV LTG CONTR FDN	EACH	4.000 X	=			
85100100	PAINT EX TR SIG EQUIP	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
87900200	DRILL EX HANDHOLE	EACH	1.000 X	=			
88600600	DET LOOP REPL	FOOT	2,183.000 X	=			
89000100	TEMP TR SIG INSTALL	EACH	5.000 X	=			
89502300	REM ELCBL FR CON	FOOT	210.000 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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Roosevelt Road Streetscape Improvements
 Sec. No 09-00248-00-RS
 Project No TE-00D1(818)
 Village of Oak Park
 Cook County

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STARTING AND COMPLETION

If awarded Contract No. 63432, the bidder agrees to commence work at the site on July 5, 2010. The Bidder further agrees to the following two work periods with working dates **starting on July 6, 2010 and ending on November 14, 2010 for Work Period 1 and Work Period 2 starting on January 19, 2011 and ending on October 31, 2011.**

The Bidder further agrees to **complete all of the hardscape, signage, lighting, and traffic pavement marking work depicted within Stage 1**, including sub-stages A, B, and C, as shown on the **Maintenance Of Traffic plans** required to open the road to vehicular traffic by **November 14, 2010.**

The Bidder further agrees to complete all work covered by Contract No. 63432 to the point of final acceptance by the OWNER and to the point of **Substantial Completion by August 30, 2011. Final Completion by October 31, 2011.** Substantial completion is defined as completion of all hardscape, signage, lighting, and pavement marking work required to open the road to both pedestrian and vehicular traffic; excluding landscape plantings and furnishings. Final completion is defined as completion of all work following substantial completion necessary to install all landscape plantings and furnishings.

Bureau of Traffic Programs Approval

The Contractor shall not begin Construction until written approval of the project Plans and Special Provisions is received from the Illinois Department of Transportation Bureau of Traffic Programs.



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EQUIPMENT CABINET

Addendum A

Description: This work will consist of furnishing and installing ~~Stainless Steel Weatherproof~~ cabinet with transformer and circuit breakers as shown in drawings for receptacles next to landscape planters and trees. This work includes concrete foundation.

Material: The cabinet shall meet all requirements of Material Specification of IDOT.

Method of Measurement: The cabinet furnished and installed will be measured as each.

Basis of Payment: This work will be paid for at the contract unit price each for **EQUIPMENT CABINET**. Such price will be payment in full for furnishing, installing, and testing, and will include all material, labor, and incidentals necessary to complete the work as per the contract plans.

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ADDITIONAL GROUND ROD INSTALLATION

Effective: January 1, 2007

Addendum A

Description. This item shall consist of furnishing, installing and connecting ground rods for the grounding of service neutral conductors and for supplementing the equipment grounding system via connection at poles or other equipment throughout the system. All materials and work shall be in accordance with Section 806 of the Standard Specifications and Article 250 of the NEC except as amended herein.

Materials. Materials shall be according to the following Articles of Section 1000 - Materials

Item	Article/Section
(a) Grounding Electrodes.....	1087.01(b)
(b) Grounding Electrode Conductors.....	1087.01(a)
(c) Access Well.....	1087.01(c)

CONSTRUCTION REQUIREMENTS

General. All connections to ground rods, structural steel or fencing shall be made with exothermic welds. Where such connections are made to insulated conductors, the connection shall be wrapped with at least 4 layers of electrical tape extended 152.4 mm (six inches) onto the conductor insulation.

Ground rods shall be driven so that the tops of the rod are 609.6 mm (24 inches) below finished grade. Where indicated, ground wells shall be included to permit access to the rod connections.

Where indicated, ground rods shall be installed through concrete foundations.

Where ground conditions, such as rock, preclude the installation of the ground rod, the ground rod may be deleted with the approval of the Engineer.

Where a ground field of "made" electrodes is provided, such as at control cabinets, the exact locations of the rods shall be documented by dimensioned drawings as part of the Record Drawings.

Ground rod connection shall be made by exothermic welds. Ground wire for connection to foundation steel or as otherwise indicated shall be stranded uncoated bare copper in accordance the applicable requirements of ASTM Designation B-3 and ASTM Designation B-8 and shall be included in this item. Unless otherwise indicated, the wire shall not be less than No. 2 AWG.

Where connections are made to epoxy coated reinforcing steel, the epoxy coating shall be sufficiently removed to facilitate the exothermic weld.

Addendum A

Basis Of Payment. This item shall be paid for pursuant to Article 806.04 of the Standard Specifications.

REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES

Description: This work shall be according to Article 669 of the Standard Specification and the following:

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: Implementation of this Special Provision will likely require the Contractor to subcontract for the execution of certain activities. It will be the Contractor's responsibility to assess the working conditions and adjust anticipated production rates accordingly.

All contaminated materials shall be managed as non-special waste. This work shall include monitoring and potential sampling, analytical testing, and management of a petroleum contaminated material.

Any soil classified as a non-special waste shall be excavated and disposed of as directed by this project or the Engineer. Any excavation or disposal beyond what is required by this project or the Engineer will be at no additional cost to the Department. The preliminary site investigation (PSI) report, available through the District's Environmental Studies Unit, estimated the excavation quantity of non-special waste at the following location. The information available at the time of plan preparation determined the limits of the contamination and the quantities estimated were based on soil excavation for construction purposes only. The lateral distance is measured from the centerline and the farthest distance is the offset distance or construction limit whichever is less. Any soil samples or analysis without the approval of the Engineer will be at no additional cost to the Department.

A) The Environmental Firm shall continuously monitor for worker protection and the Contractor shall manage and dispose of all soils excavated within the following areas as classified below.

1. Station 100+00 to Station 102+30 to 60 feet LT (BP Amoco Station, Site 2029-3, 7140 West Roosevelt Road) – non-special waste. Contaminates of concern sampling parameters: BETX and PAHs.

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2. Station 100+00 to Station 101+00 0 to 60 feet RT (Shell Station, Site 20292, 7143 West Roosevelt Road) – non-special waste. Contaminates of concern sampling parameters: BETX.
3. Station 141+60 to Station 142+20 0 to 60 feet LT (Auto Experts, Site 2029-46, 6540 West Roosevelt Road) – non-special waste. Contaminates of concern sampling parameters: PAHs.
4. Station 155+00 to Station 156+10 0 to 80 feet LT (Pete's Red Hots, Site 2029-54, 6346 West Roosevelt Road) – non-special waste. Contaminates of concern sampling parameters: BETX, PAHs and Arsenic.
5. Station 155+00 to Station 156+50 0 to 80 feet RT (Mobil Station, Site 2029-54, 6347 West Roosevelt Road) – non-special waste. Contaminates of concern sampling parameters: BETX.

B) The Environmental Firm shall continuously monitor for worker protection and the Contractor shall manage any excavated soils within the construction limits of this project as fill. Although the soil concentrations exceed a residential property's Tier 1 soil remediation objective for the ingestion exposure pathway, they can be utilized within the construction limits as fill because the roadway is not considered a residential property. All storm sewer excavated soils can be placed back into the excavated trench as backfill unless trench backfill is specified. If the soils cannot be utilized within the construction limits as fill then they must be managed off-site as a non-special waste. The following areas can be managed within the construction limits as fill.

1. Station 120+90 to Station 121+20 0 to 80 feet RT (Parkwyn Funeral Home, Site 2029-26, 6901 West Roosevelt Road) – non-special waster. Contaminates of concern sampling parameters: Arsenic.
2. Station 131+20 to Station 131+70 0 to 50 feet RT (Commercial & Residential Building, Site 2029-35, 6721-6737 West Roosevelt Road) – non-special waste. Contaminates of concern sampling parameters: Arsenic.
3. Station 147+40 to Station 148+20 0 to 40 feet RT (Turano Bakery, Site 2029-50, 6425-6535 West Roosevelt Road) – non-special waste. Contaminates of concern sampling parameters: Arsenic.
4. Station 152+35 to Station 153+30 0 to 50 feet RT (Turano Bakery, Site 2029-50, 6425-6535 West Roosevelt Road) – non-special waste. Contaminates of concern sampling parameters: Arsenic.
5. Station 157+60 to Station 158+25 0 to 40 feet LT (Medical Offices, Site 2029-58, 6326 West Roosevelt Road) – non-special waste. Contaminates of concern sampling parameters: Arsenic.

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6. Station 174+60 to Station 175+20 0 to 50 feet LT (Route Auto Sales, Site 2029-72, 6104 West Roosevelt Road) – non-special waste. Contaminates of concern sampling parameters: Arsenic.
7. Station 181+10 to Station 181+80 0 to 50 feet RT (Charter One Bank, Site 2029-80, 6020 West Roosevelt Road) – non-special waste. Contaminates of concern sampling parameters: Arsenic.

Engineered Barrier: An engineered barrier shall be installed in storm sewer trenches between Station 155+00 to Station 156+50 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.

Added 7-15-10