



Illinois Department of Transportation

2300 South Dirksen Parkway / Springfield, Illinois / 62764

February 23, 2015

SUBJECT: FAI Route 290 (I-290)
Project ACNHPP-0290(201)
Section 2013-077R
Cook County
Contract No. 60X61
Item No. 195, March 6, 2015 Letting
Addendum A

NOTICE TO PROSPECTIVE BIDDERS:

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

1. Replaced the Schedule of Prices
2. Revised the Table of Contents to the Special Provisions
3. Revised pages 1, 2, 126, 138, 139 & 141-143 of the Special Provisions
4. Revised sheets 1, 2, 4, 11, 89, 135, 151 & 171 of the Plans
5. Added sheets 268E-268G to the Plans
6. Deleted sheet 149L from 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,

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

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

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

cc: John Fortmann, Region 1, District 1; Tim Kell; D. Carl Puzey; Estimates

MS/kf

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF PRICES
 CONTRACT
 NUMBER - 60X61

State Job # - C-91-149-14

County Name - COOK - -

Code - 31 - -

District - 1 - -

Section Number - 2013-077R

Project Number

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Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
X0100001	TEMP SL RT S FDN REM	EACH	8.000				
X0301423	NOISE AB WALL GRD MT	SQ FT	470.000				
X0322441	DIG LOOP DET SEN U 4C	EACH	4.000				
X0322442	TONE EQ 3 FRE REC PRG	EACH	14.000				
X0322443	TONE EQ 3 FREQ TR PRG	EACH	14.000				
X0322444	TONE EQ POWER SUPPLY	EACH	6.000				
X0322445	TONE EQ MOUNT FRAME	EACH	3.000				
X0323898	CCTV DOME CAMERA	EACH	1.000				
X0324455	DRILL/SET SOLD P SOIL	CU FT	82,211.000				
X0324599	ROD AND CLEAN EX COND	FOOT	320.000				
X0325040	FO INNERDUCT 1 1/4"	FOOT	1,490.000				
X0325087	VIDEO TAPING MN DRAIN	FOOT	5,514.000				
X0325349	TEMP CON BAR (PERM)	FOOT	1,700.000				
*DEL X0325409	PILE REMOVAL	EACH	3,750.000				
*ADD X0325410	PILE REMOVAL	FOOT	3,750.000				

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X0326133	TEMP WD POLE 45FT CL5	EACH	1.000				
X0326461	CCTV EQPT FBR OPT DST	EACH	1.000				
X0326694	PLUG EX STORM SEWERS	CU YD	4.300				
X0326935	CROSSHOLE SONIC LOG	EACH	5.000				
X0327117	ATMS SYS INTEGRATION	L SUM	1.000				
X0327267	SLOPE INCLINOMETER	EACH	4.000				
X0327357	CONSTRN VBRN MONITRNG	L SUM	1.000				
X0327561	BUDG ALLOW CCTV INTGR	L SUM	1.000				
X0327606	FIBER OPT SPL-LATERAL	EACH	2.000				
X0327616	MAINT ITS DURG CONSTR	CAL MO	14.000				
X0327682	CDWM ENG SERVICES	L SUM	1.000				
X0327750	FOUNDATION REM	CU YD	189.000				
X0327754	TEMPORARY BULKHEAD	EACH	2.000				
X0327755	CAB HSG EQ ESP 3 CFM	EACH	1.000				
X0327757	FDN CONSTR EX OBSTRNS	EACH	40.000				

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X0328502	CCTV CAM STR GS 50 MH	EACH	1.000				
X0370077	LOCATE TUNNEL CHICAGO	EACH	2.000				
X0370078	BULKHD TUNNEL CHICAGO	EACH	2.000				
X1200028	REM TEMP BULKHEAD	EACH	2.000				
X1400032	RADAR VEH SNSG DEVICE	EACH	1.000				
X1400033	CAB HSG EQ ESP 4 CFM	EACH	1.000				
X2020410	EARTH EXCAVATION SPL	CU YD	147.000				
X5012502	CONC REM SPEC	CU YD	5.000				
X5610736	WATER MAIN REMOV 36	FOOT	18.000				
X5860110	GRANULAR BACKFILL STR	CU YD	263.000				
X6022110	MAN TA 10 DIA T1F CL	EACH	2.000				
X6061305	CONC MEDIAN SURF SPL	SQ FT	625.000				
X6370050	CONC BAR WALL SPL	FOOT	56.000				
X6370250	C BAR VAR X-SEC 42HT	FOOT	298.000				
X6370279	CONC BAR 1F 42HT SPL	FOOT	735.000				

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X6430120	REM IMP ATTEN NO SALV	EACH	1.000				
X6640050	CH LK FENCE 42 ATS SP	FOOT	644.000				
X7010216	TRAF CONT & PROT SPL	L SUM	1.000				
X7010410	SPEED DISPLAY TRAILER	CAL MO	14.000				
X7011015	TR C-PROT EXPRESSWAYS	L SUM	1.000				
X7013820	TR CONT SURVEIL EXPWY	CAL DA	427.000				
X7035104	TEMP EPOXY PVT MK L4	FOOT	14,962.000				
X7035105	TEMP EPOXY PVT MK L5	FOOT	3,712.000				
X7035108	TEMP EPOXY PVT MK L8	FOOT	1,390.000				
X7040650	REM TEMP CONC BARRIER	FOOT	50.000				
X7280105	TELES STL SIN SUP SPL	FOOT	21.000				
X8100863	INTERCEPT EX CONDUIT	EACH	3.000				
X8710036	FIB OPT CBL 12F SM	FOOT	1,025.000				
X8730249	ELCBL C 19 6/C	FOOT	820.000				
X8730312	EC C LEAD 18 4C TW SH	FOOT	3,466.000				

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X8850102	INDUCTION LOOP	FOOT	472.000				
X8850109	PREF INDUCTION LOOP	FOOT	275.000				
X8950425	REMOV TRAF SURV EQUIP	L SUM	1.000				
Z0007118	UNTREATED TIMBER LAG	SQ FT	14,068.000				
Z0007510	ENGINEERED BARRIER	SQ YD	11,000.000				
Z0010614	CLEAN EX MAN/HAND	EACH	1.000				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.000				
Z0019600	DUST CONTROL WATERING	UNIT	66.000				
Z0022800	FENCE REMOVAL	FOOT	68.000				
Z0026404	FUR SOLDIER PILES WS	FOOT	9,468.000				
Z0030850	TEMP INFO SIGNING	SQ FT	100.000				
Z0033020	LUM SFTY CABLE ASMBLY	EACH	12.000				
Z0033028	MAINTAIN LIGHTING SYS	CAL MO	14.000				
Z0037300	PAVT GROOVING	SQ YD	6,121.000				
Z0046304	P UNDR FOR STRUCT 4	FOOT	1,387.000				

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Z0048665	RR PROT LIABILITY INS	L SUM	1.000				
Z0056608	STORM SEW WM REQ 12	FOOT	70.000				
Z0056616	STORM SEW WM REQ 24	FOOT	215.000				
Z0062456	TEMP PAVEMENT	SQ YD	1,118.000				
Z0073002	TEMP SOIL RETEN SYSTM	SQ FT	5,719.000				
Z0076600	TRAINEES	HOURL	1,000.000		0.800		800.000
Z0076604	TRAINEES TPG	HOURL	1,000.000		15.000		15,000.000
20100110	TREE REMOV 6-15	UNIT	138.000				
20100210	TREE REMOV OVER 15	UNIT	50.000				
20100500	TREE REMOV ACRES	ACRE	0.250				
20101100	TREE TRUNK PROTECTION	EACH	24.000				
20200100	EARTH EXCAVATION	CU YD	11,495.000				
20201200	REM & DISP UNS MATL	CU YD	1,560.000				
20600200	GRAN EMBANK SPEC	CU YD	146.000				
20700220	POROUS GRAN EMBANK	CU YD	598.000				

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20800150	TRENCH BACKFILL	CU YD	6,455.100				
21001000	GEOTECH FAB F/GR STAB	SQ YD	8,196.000				
21101615	TOPSOIL F & P 4	SQ YD	8,001.000				
21301072	EXPLOR TRENCH 72	FOOT	100.000				
25000210	SEEDING CL 2A	ACRE	1.750				
25000400	NITROGEN FERT NUTR	POUND	149.000				
25000600	POTASSIUM FERT NUTR	POUND	149.000				
25100115	MULCH METHOD 2	ACRE	5.250				
25100630	EROSION CONTR BLANKET	SQ YD	8,001.000				
28000250	TEMP EROS CONTR SEED	POUND	1,023.000				
28000400	PERIMETER EROS BAR	FOOT	4,937.000				
28000510	INLET FILTERS	EACH	57.000				
30300112	AGG SUBGRADE IMPR 12	SQ YD	500.000				
30300124	AGG SUBGRADE IMPR 24	SQ YD	8,196.000				
31101200	SUB GRAN MAT B 4	SQ YD	1,118.000				

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31102100	SUB GRAN MAT C 4	SQ YD	2,110.000				
31200500	STAB SUBBASE HMA 4	SQ YD	6,605.000				
40201000	AGGREGATE-TEMP ACCESS	TON	250.000				
40600275	BIT MATLS PR CT	POUND	3,986.000				
42000401	PCC PVT 9 JOINTED	SQ YD	899.000				
42000521	PCC PVT 11 JOINTED	SQ YD	5,222.000				
42001300	PROTECTIVE COAT	SQ YD	12,474.000				
44000100	PAVEMENT REM	SQ YD	3,050.000				
44000500	COMB CURB GUTTER REM	FOOT	2,165.000				
44004250	PAVED SHLD REMOVAL	SQ YD	2,245.000				
48300400	PCC SHOULDERS 9	SQ YD	159.000				
48300600	PCC SHOULDERS 11	SQ YD	1,608.000				
50100300	REM EXIST STRUCT N1	EACH	1.000				
50100400	REM EXIST STRUCT N2	EACH	1.000				
50200100	STRUCTURE EXCAVATION	CU YD	2,230.000				

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50200450	REM/DISP UNS MATL-STR	CU YD	146.000				
50300225	CONC STRUCT	CU YD	917.700				
50300255	CONC SUP-STR	CU YD	173.800				
50300300	PROTECTIVE COAT	SQ YD	834.000				
50500505	STUD SHEAR CONNECTORS	EACH	2,756.000				
50800105	REINFORCEMENT BARS	POUND	562,760.000				
50800205	REINF BARS, EPOXY CTD	POUND	154,212.000				
50800530	MECHANICAL SPLICERS	EACH	760.000				
51500100	NAME PLATES	EACH	4.000				
51602000	PERMANENT CASING	FOOT	1,412.000				
51603000	DRILLED SHAFT IN SOIL	CU YD	903.000				
54248510	CONCRETE COLLAR	CU YD	6.500				
550A0340	STORM SEW CL A 2 12	FOOT	743.000				
550A0360	STORM SEW CL A 2 15	FOOT	396.000				
550A0380	STORM SEW CL A 2 18	FOOT	294.000				

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550A0400	STORM SEW CL A 2 21	FOOT	219.000				
550A0410	STORM SEW CL A 2 24	FOOT	93.000				
550A0640	STORM SEW CL A 3 12	FOOT	159.000				
550A0660	STORM SEW CL A 3 15	FOOT	225.000				
550A0680	STORM SEW CL A 3 18	FOOT	10.000				
550A0830	STORM SEW CL A 3 78	FOOT	16.000				
550A0940	STORM SEW CL A 4 12	FOOT	9.000				
550A1010	STORM SEW CL A 4 24	FOOT	215.000				
550A1030	STORM SEW CL A 4 30	FOOT	362.000				
550A1130	STORM SEW CL A 4 78	FOOT	1,930.000				
550A1640	STORM SEW CL A 6 42	FOOT	50.000				
550A1700	STORM SEW CL A 6 78	FOOT	158.000				
55100400	STORM SEWER REM 10	FOOT	264.000				
55100500	STORM SEWER REM 12	FOOT	641.000				
55100900	STORM SEWER REM 18	FOOT	7.000				

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56104336	D I WATER MAIN MJ 36	FOOT	18.000				
58700300	CONCRETE SEALER	SQ FT	18,117.000				
59100100	GEOCOMPOSITE WALL DR	SQ YD	776.000				
59300100	CONTR LOW-STRENG MATL	CU YD	330.100				
60107700	PIPE UNDERDRAINS 6	FOOT	2,347.000				
60108200	PIPE UNDERDRAIN 6 SP	FOOT	425.000				
60201005	CB TA 4 DIA T10F&G	EACH	1.000				
60201310	CB TA 4 DIA T20F&G	EACH	26.000				
60201340	CB TA 4 DIA T24F&G	EACH	1.000				
60206905	CB TC T1F OL	EACH	3.000				
60207805	CB TC T10F&G	EACH	4.000				
60208210	CB TC T20F&G	EACH	1.000				
60218400	MAN TA 4 DIA T1F CL	EACH	4.000				
60221100	MAN TA 5 DIA T1F CL	EACH	12.000				
60223800	MAN TA 6 DIA T1F CL	EACH	1.000				

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60224469	MAN TA 9 DIA T1F CL	EACH	4.000				
60300305	FR & LIDS ADJUST	EACH	1.000				
60500040	REMOV MANHOLES	EACH	7.000				
60500050	REMOV CATCH BAS	EACH	19.000				
60500060	REMOV INLETS	EACH	1.000				
60602800	CONC GUTTER TB	FOOT	1,904.000				
60605000	COMB CC&G TB6.24	FOOT	61.500				
63700175	CONC BAR 1F 42HT	FOOT	533.000				
63700805	CONC BAR TRANS	FOOT	64.000				
63700900	CONC BARRIER BASE	FOOT	951.000				
64200116	SHOULDER RUM STRIP 16	FOOT	1,019.000				
64300370	IMP ATTEN FRD WID TL3	EACH	1.000				
*REV 66900200	NON SPL WASTE DISPOSL	CU YD	29,350.000				
66900450	SPL WASTE PLNS/REPORT	L SUM	1.000				
66900530	SOIL DISPOSAL ANALY	EACH	8.000				

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67100100	MOBILIZATION	L SUM	1.000				
70103815	TR CONT SURVEILLANCE	CAL DA	427.000				
70106800	CHANGEABLE MESSAGE SN	CAL MO	14.000				
70300240	TEMP PVT MK LINE 6	FOOT	5,275.000				
70301000	WORK ZONE PAVT MK REM	SQ FT	9,769.000				
70400100	TEMP CONC BARRIER	FOOT	3,575.000				
70400200	REL TEMP CONC BARRIER	FOOT	2,862.500				
70600260	IMP ATTN TEMP FRN TL3	EACH	8.000				
70600332	IMP ATTN REL FRN TL3	EACH	10.000				
72000100	SIGN PANEL T1	SQ FT	68.000				
72000200	SIGN PANEL T2	SQ FT	55.500				
72000300	SIGN PANEL T3	SQ FT	456.000				
72400100	REMOV SIN PAN ASSY TA	EACH	2.000				
72400200	REMOV SIN PAN ASSY TB	EACH	2.000				
72400320	REMOV SIGN PANEL T2	SQ FT	20.000				

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72400330	REMOV SIGN PANEL T3	SQ FT	488.000				
72400600	RELOC SIN PAN ASSY TB	EACH	1.000				
72600100	MILEPOST MKR ASSEMBLY	EACH	1.000				
72700100	STR STL SIN SUP BA	POUND	4,089.000				
72800100	TELES STL SIN SUPPORT	FOOT	15.000				
73000100	WOOD SIN SUPPORT	FOOT	54.000				
73400100	CONC FOUNDATION	CU YD	9.000				
73700100	REM GR MT SIN SUPPORT	EACH	4.000				
73700200	REM CONC FDN-GR MT	EACH	4.000				
78005100	EPOXY PVT MK LTR-SYM	SQ FT	92.000				
78005110	EPOXY PVT MK LINE 4	FOOT	9,856.000				
78005120	EPOXY PVT MK LINE 5	FOOT	2,806.000				
78005140	EPOXY PVT MK LINE 8	FOOT	5,810.000				
78005150	EPOXY PVT MK LINE 12	FOOT	1,442.000				
78008200	POLYUREA PM T1 LTR-SY	SQ FT	109.000				

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78008210	POLYUREA PM T1 LN 4	FOOT	1,062.000				
78008240	POLYUREA PM T1 LN 8	FOOT	210.000				
78008270	POLYUREA PM T1 LN 24	FOOT	72.000				
78100100	RAISED REFL PAVT MKR	EACH	286.000				
78200530	BAR WALL MKR TYPE C	EACH	278.000				
78300100	PAVT MARKING REMOVAL	SQ FT	3,985.000				
78300200	RAISED REF PVT MK REM	EACH	97.000				
80400100	ELECT SERV INSTALL	EACH	2.000				
80400200	ELECT UTIL SERV CONN	L SUM	1.000		15,000.000		15,000.000
81028170	UNDRGRD C GALVS 1	FOOT	75.000				
81028200	UNDRGRD C GALVS 2	FOOT	127.000				
81028350	UNDRGRD C PVC 2	FOOT	714.000				
81028370	UNDRGRD C PVC 3	FOOT	765.000				
81028730	UNDRGRD C CNC 1 1/4	FOOT	14.000				
81100805	CON AT ST 3 PVC GALVS	FOOT	125.000				

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81300830	JUN BX SS AS 18X18X8	EACH	2.000				
81400200	HD HANDHOLE	EACH	10.000				
81603050	UD 3#6 #8G XLPUSE 1	FOOT	1,430.000				
81603081	UD 3#2#4G XLPUSE 1.5 P	FOOT	565.000				
82102400	LUM SV HOR MT 400W	EACH	12.000				
83050825	LT P A 47.5MH 15DA	EACH	12.000				
83600200	LIGHT POLE FDN 24D	FOOT	156.000				
83800205	BKWY DEV TR B 15BC	EACH	5.000				
84200500	REM LT UNIT SALV	EACH	4.000				
84200804	REM POLE FDN	EACH	3.000				
87000885	ECA C XLPTC 2C 6 8	FOOT	1,343.000				
87301900	ELCBL C EGRDC 6 1C	FOOT	95.000				
87800200	CONC FDN TY D	FOOT	10.000				
87900200	DRILL EX HANDHOLE	EACH	2.000				
89502300	REM ELCBL FR CON	FOOT	1,073.000				

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 SCHEDULE OF PRICES
 CONTRACT
 NUMBER - 60X61

State Job # - C-91-149-14

County Name - COOK - -

Code - 31 - -

District - 1 - -

Section Number - 2013-077R

Project Number

ACNHPP-0290/201/

*REVISED: FEBRUARY 20, 2015

Route

FAI 290

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
89502350	REM & RE ELCBL FR CON	FOOT	750.000				
89502500	REM TEMP TR SIG INST	EACH	1.000				

CONTRACT NUMBER

60X61

THIS IS THE TOTAL BID

\$ _____

NOTES:

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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STATE OF ILLINOIS

SPECIAL PROVISIONS

The following Special Provisions supplement the "Standard Specifications for Road and Bridge Construction" adopted January 1, 2012, the latest edition of the "Manual of Uniform Traffic Control Devices for Streets and Highways, the "Manual of Test Procedures for Materials" in effect on the date of invitation for bids, and the Supplemental Specifications and Recurring Special Provisions indicated on the Check Sheets included herein which apply to and govern the construction of FAI Route 290 (I-290), Project ACNHPP-0290(201), Section 2013-077R, Cook County, Contract 60X61, and in case of conflict with any part or parts of said specifications, the said special provisions shall take precedence and shall govern.

LOCATION OF PROJECT

The project is located along FAI Route 90/94/2090 from Peoria Street to Racine Avenue on FAI Route 290. The gross and net length of the project is 2,573.78 Feet (0.489 Miles).

DESCRIPTION OF PROJECT

The work consists of the construction of WB I-290 Auxiliary Lane connecting to the NW Flyover Ramp, Proposed Barrier Wall (SN 016-Z030), Noise Abatement Wall, Retaining Walls 5 (SN 016-1724), 6 (SN 016-1725) and 7 (SN 016-1726), and the reconstruction of the WB Morgan Street Exit Ramp are to be included from Peoria Street to Racine Avenue on FAI Route 290.

Work includes roadway reconstruction, retaining wall construction, retaining wall removal, erosion control and protection, utility relocation of existing storm sewers and existing water main, special waste excavation, earth excavation and embankment, removal of existing improvements, new 78" main drains and miscellaneous storm sewers, pavements, pavement marking and signage, roadway lighting, ITS, traffic control and protection, urban enhancements and all incidental and collateral work necessary to complete the improvements as shown on the Plans and as described herein.

Revised 2/23/15

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Revised 2/23/15

CSL Report: The test results shall be submitted to the Engineer in the form of a report within 7 working days of completion of CSL testing. The CSL report should include but is not limited to the following:

- (a) Project identification.
- (b) Dates of testing.
- (c) Table and a plan view of each shaft tested with accurate identification of tube coordinates and tubes referenced to the site.
- (d) Tube collar elevation.
- (e) Names of personnel that performed the tests/interpretation and their affiliation.
- (f) Equipment used.
- (g) Data Logs, interpretation, analysis, and results.

The Data logs for each tube pair tested shall be included along with an analysis of the initial pulse arrival time, velocity, relative pulse energy/amplitude, and stacked waveform plotted versus depth. The Report shall list all zones defined by the Concrete Condition Rating Criteria (CCRC) in a tabular format including the percent velocity reduction and the velocity values used from the nearby zone of good quality concrete. The Report shall discuss each zone defined by the CCRC as appropriate. The Report shall base the results on the percent reduction in velocity value from a nearby zone of good quality concrete with good signal amplitude and energy as correlated to the following:

Concrete Condition Rating Criteria (CCRC)		
CCRC (Rating Symbol)	Velocity Reduction	Indicative Results
Good (G)	≤ 10 %	Good quality concrete
Questionable (Q)	10 % to < 20 %	Minor concrete contamination or intrusion. Questionable quality concrete.
Poor/Defect (P/D)	≥ 20 %	Defects exist, possible water/slurry contamination, soil intrusion, and/or poor quality concrete.
Water (W)	V = 4750 fps (1450 mps) to 5000 fps (1525 mps)	Water intrusion or water filled gravel intrusion with few or no fines present.
No Signal (NS)	No Signal Received	Soil intrusion or other severe defect absorbed the signal (assumes good bond of the tube-concrete interface).

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Submittals:

1. Complete detailed shop drawings for 10'-diameter manholes. Indicate all dimensions, details, reinforcing steel, inserts, connections, openings, grout, gaskets, external sealing bands and waterstops, lifting devices and appurtenances.
2. Concrete mix designs and all materials used in the concrete mixtures.
3. Reinforcing bars shop drawings.
4. All appurtenances specified on the Plans or this Special Provision.
5. All materials specified on the Plans or this Special Provision.
6. Calculations, drawings and certification sealed and signed by an Illinois licensed Structural Engineer employed by the Contractor. Indicate codes and specifications to which structure design conforms, loads and design calculations as evidence of conformance to the Drawings and this Special Provision. Engineer review shall not relieve the Contractor of his responsibility for the design of the precast concrete manhole structure.
7. Drawings and Specifications indicate minimum requirements that Contractor's design must conform to. Where minimum requirements are not sufficient, make modifications and changes in features and details based on design calculations of Contractor's Illinois licensed Structural Engineer. Required changes based on design of Contractor's Illinois licensed Structural Engineer shall be made at no additional cost to the Owner.
8. Do not fabricate the manholes until shop drawings have been accepted by the Engineer.

Method of Measurement: Construction of 10'-diameter manholes shall be measured per each installed.

Basis of Payment: This work will be paid for at the contract unit price per each for MANHOLES, TYPE A, 10'-DIAMETER, TYPE 1 FRAME, CLOSED LID with the specified frame, lid, adjusting rings, manhole steps, other appurtenances, and other required elements, which price includes all labor, material, and equipment necessary to complete the work specified herein and shown on the Plans. Preformed flexible gaskets or rubber gaskets and external sealing bands used at the joints between precast sections or grout and waterstops at sewer pipe and manhole connections will also be included in the unit cost of this item. Dewatering of the excavation prior to and during manhole installation is included in the cost of this item.

EARTH EXCAVATION (SPECIAL)

Description. Work under this item shall consist of furnishing all labor, equipment, tools, and additional required items necessary to excavate and remove the abandoned CTA water tunnel where the tunnel conflicts with proposed sewer installation.

General Requirements. All work shall be performed as shown on the Plans and in conformance with Article 202 of the Standard Specifications. The work under this item shall include the volume of excavation one (1) foot around the circumference of the tunnel. The excavation is expected to include some or all materials including soil, sand, stone, brick, mortar, stone and other materials utilized to install the abandoned water tunnel in the 1890's. The void space within the tunnel will be included as part of the excavation.

Revised 2/23/15

Any debris must be disposed of off-site in an approved manner unless otherwise deemed acceptable for use as embankment by the Engineer. The Contractor will pay for all disposal fees.

Equipment. All equipment utilized in the execution of work under this item shall be selected based upon the materials to be expected within the excavation and consider that the work shall take place within an active trench for sewer installation, including trench protection.

Method of Measurement. This work will be measured for payment in accordance to Article 202.07.

Basis of Payment. Excavation within the immediate area of the abandoned CTA water tunnel will be paid for at the contract unit price per cubic yard for EARTH EXCAVATION (SPECIAL). This work shall include all necessary equipment, materials and labor to completely remove the existing water tunnel in conflict with the proposed storm sewer to be installed. All trench protection, trench excavation outside the limits described herein, sewer pipe, bedding, backfill, trench backfill and other items shall be paid for under other items described elsewhere in the Standard Specifications and these Special Provisions.

CONCRETE MEDIAN SURFACE, SPECIAL

Description: This item of work shall consist of constructing CONCRETE MEDIAN SURFACE, SPECIAL in areas between concrete barrier walls and between concrete barrier walls and existing or proposed retaining walls, bridge piers and abutments as shown in the Plans. Work shall be in accordance with Section 606 of the Standard Specifications, details in the Plans and as directed by the Engineer.

The concrete median surface color and texture shall closely match the existing concrete median surface used between existing NB I-90/94 and Ramp NW/NE. The median surfaces shall be textured with a stamping tool capable of producing a "brick paver-like" effect on its surface and utilize integrally colored concrete materials.

Materials: Materials shall meet the applicable requirements of Division 1000 of the Standard Specifications.

The Contractor shall submit a mock-up of the concrete median under this item for review by the Engineer a minimum of three (3) weeks prior to installation. The mock-up shall be a minimum of two feet by two feet and shall include the proposed coloring and stamping pattern.

Construction Requirements: Meet applicable requirements of Section 606 of the Standard Specifications. Concrete median shall be constructed after all concrete barrier walls and proposed retaining walls are complete.

Welded wire fabric reinforcement shall be used. Welded wire fabric may be smooth or deformed and shall be equal to or better than 6" x 6" D8.0/D8.0 and meet the requirements of Article 1006.10 of the Standard Specifications.

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When impact attenuators have been anchored to the pavement, the anchor holes shall be repaired with rapid set mortar with only enough water to permit placement. Consolidation by rodding shall be used and the material shall be struck-off flush.

Method of Measurement and Basis of Payment. This work will be measured for payment at the contract unit price per each for REMOVE IMPACT ATTENUATORS, NO SALVAGE, where each is defined as one complete installation.

REMOVE TEMPORARY CONCRETE BARRIER

Description. This work shall consist of removing existing precast temporary concrete barriers including all fixtures attached to the temporary concrete barrier installed in previous contracts by others at locations as specified in the Plans.

Construction Requirement. When the Engineer determines the existing precast temporary concrete barriers are no longer required, the installation shall be dismantled with all hardware becoming the property of the Contractor.

When the existing precast temporary concrete barriers have been anchored to the pavement, the anchor holes shall be repaired with rapid set mortar with only enough water to permit placement. Consolidation by rodding shall be used and the material shall be struck-off flush.

Method of Measurement. This work will be measured for payment in feet (meters) in place along the centerline of the barrier.

Basis of Payment. This work will be paid for at the contract unit price per foot (meter) for REMOVE TEMPORARY CONCRETE BARRIER.

CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL)

Description. This work shall consist of fabricating, furnishing and erecting Chain Link Fence and Gates (Special) attached to the top of or adjacent to fluted knee walls or retaining walls at the locations shown in the Plans or as directed by the Engineer. This work shall conform to the applicable portions of Sections 509, 584, and 664 of the Standard Specifications and as modified herein.

General Requirements. Prior to fabrication or ordering materials, the Contractor shall submit detailed shop drawings to the Engineer for approval as described in Article 505.03 of the Standard Specifications; including but not limited to materials, fittings, attachments, anchors and accessories required for complete assembly of the chain link fence and gates. Certain openings have been provided by others and the Contractor shall field verify any gate opening dimensions before ordering materials.

Revised 2/23/15

Materials. Materials shall meet the requirements of Section 1000 of the Standard Specifications.

Fabric: Type IV fabric identified in Article 1006.27 will not be allowed.

Self Tapping Screws: Self tapping screws shall conform to S.A.E. J81 thread rolling screws.

Posts, post tops, base and cap plates, railings, braces, stretcher bars, fittings and hardware shall be hot dip galvanized or galvanize coated after fabrication according to Articles 1006.27, 1006.28 and 1006.34 of the Standard Specifications and ASTM F1043.

The self tapping screws used to attach the welded wire mesh frames and closure angles to the fence frames shall be Zinc Electroplated with a Service Condition SC 4, Type I Finish, Unslotted Hex Washer Head, Thread Rolling Tapping Screws. Self tapping screws shall be galvanized by electroplating according to ASTM B633-98.

Vent holes for galvanizing shall be placed in the posts and rails at locations that will not allow the accumulation of moisture in the members.

Gates: The gates should follow the requirements of Article 664.02 of the Standard Specifications, except as modified herein.

Stretcher bars: Stretcher bars shall be used at all four sides of each gate and railing panel.

Braces: Braces shall be placed 6 inches down from the top of terminal posts.

Installing Posts. The Contractor shall locate the post according to the spacing shown in the contract plans. The posts shall be anchored to the concrete parapet and knee walls as shown in the plans. Posts shall be set vertical and in true alignment.

Base Plates. Base plates shall be structural steel conforming to the requirements of AASHTO M270 Grade 36 and Article 1006.04 of the Standard Specifications.

Attachment to Concrete. The Contractor shall drill and grout anchor rods in accordance with Section 584 of the Standard Specifications.

Fabrication and Erection. Steel railings shall be fabricated, inspected, stored and erected in accordance with the provisions of Articles 509.01, 509.03 and Section 505. Openings between railing components and adjacent surfaces shall not exceed 2" unless otherwise noted on drawings or required by structural design regarding expansion movement.

Method of Measurement. CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL) shall be measured in feet along the top of the fence, from center to center of end posts excluding the length occupied by gates, installed and accepted. CHAIN LINK GATES will be measured for payment at the contract unit price each for the gate assemblies of the opening size and type specified, installed and accepted.

Revised 2/23/15

Basis of Payment. This work shall be paid for at the contract unit price per foot for CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL), which price shall be payment in full for all shop and fabrication drawings, materials, fabricating and installing the complete fence including the gate posts, base plates, fittings, chain link fabric, anchorage, hardware, grounding and other incidentals for the fence, as specified herein.

TELESCOPING STEEL SIGN SUPPORT (SPECIAL)

Description. This work shall consist of furnishing and installing telescoping steel sign supports for barrier wall or parapet mounted at locations shown on the Plans and details in accordance with the applicable portions of Section 728 of the Standard Specifications except as otherwise specified on the Plans.

Installation Methods. Installation methods shall be as specified in the Plans.

Method of Measurement. This work will be measured for payment in feet (meters). The length measured will be the total length of all sections installed. All mounting hardware and appurtenances are included in the work and will not be measured separately for payment.

Basis of Payment. This work will be paid for at the contract unit price per foot (meter) for TELESCOPING STEEL SIGN SUPPORT (SPECIAL), which price shall include all equipment, materials and labor required to complete the installation the sign supports.

TEMPORARY EPOXY PAVEMENT MARKING

Description. This work shall consist of furnishing, installing, and maintaining Temporary Epoxy Pavement Markings.

Material. Materials shall be according to Article 1095.04 of the Standard Specifications.

Equipment. Equipment shall be according to Article 1105.02.

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