CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION
DIVISION OF INFRASTRUCTURE

ADDENDA CONTROL SHEET

BID OPENING DATE: June 30, 2016

PROJECT NO.: HWPLZ012M

TITLE: RECONSTRUCTION OF BOGARDUS PLAZA

ADDENDA ISSUED	No. OF DRAWINGS	DATE
#1: Additional Amendments	NONE	06 /14/ 2016
#2: Additional Amendments	NONE	06/24/2016

ATTACH TO CONTRACT DOCUMENTS

THE CITY OF NEW YORK
DEPARTMENT OF DESIGN AND CONSTRUCTION

DIVISION OF INFRASTRUCTURE
BUREAU OF DESIGN

PROJECT ID: **HWPLZ012M**

RECONSTRUCTION OF BOGARDUS PLAZA

HUDSON STREET FROM READE STREET TO CHAMBERS STREET
INCLUDING PAVING, LIGHTING AND LANDSCAPE ELEMENT WORKS
TOGETHER WITH ALL WORKS INCIDENTAL THERETO
BOROUGH OF MANHATTAN
CITY OF NEW YORK

ADDENDUM NO. 2

DATED: JUNE 24, 2016

THIS ADDENDUM IS HEREBY MADE A PART OF THE CONTRACT DOCUMENTS

1. **Refer** to the Bid and Contract Documents, Volume 1 of 3;
   Delete BID SCHEDULE Pages B-3 through B-40 in its entirety.
   Insert Attached BID SCHEDULE Pages B-3 [Revision #1] through B-40 [Revision #1]

2. **Refer** to the Bid and Contract Documents, Volume 3 of 3 EL-Pages;
   Delete E 260519-LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (Pages EL-5 thru EL-8) in its entirety.
   Insert Attached E 260519-LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (Pages EL-5R thru EL-8R)

3. **Refer** to the Bid and Contract Documents, Volume 3 of 3 EL-Pages;
   Delete E 260533- RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS (Pages EL-18 thru EL-26) in its entirety.
   Insert Attached E 260533- RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS (Pages EL-18R thru EL-26R)

4. For additional information, see the attached 1(one) page of "Questions Submitted by Bidders and DDC's Responses".

END OF ADDENDUM NO. 2

By signing in the space provided below, the bidder acknowledges receipt of this Addendum consisting of one (1) page, and fifty two (52) pages of attachments.

THIS ADDENDUM MUST BE SIGNED BY ALL BIDDERS AND ATTACHED TO THEIR BIDS.

for MZ.

Mohsen Zargarelahi, P.E.
Assistant Commissioner

_____
Name of Bidder

By:_____

BID SCHEDULE

NOTE: (1) The Agency may reject a bid if it contains unbalanced bid prices. An unbalanced bid is considered to be one containing lump sum or unit items which do not reflect reasonable actual costs plus a reasonable proportionate share of the Bidder's anticipated profit, overhead costs, and other indirect costs, anticipated for the performance of the items in question.

(2) The following bid prices on Unit Price Contracts are to be paid for the actual quantities of the item numbers in the completed work or structure, and they cover the cost of all work, labor, material, tools, plant and appliances of every description necessary to complete the entire work, as specified, and the removal of all debris, temporary work and appliances.

(3) PLEASE BE SURE A LEGIBLE BID IS ENTERED, IN INK, FOR EACH ITEM.
Alterations must be initialed in ink by the bidder.

(4) The Extended Amount entered in Column 6 shall be the product of the Estimated Quantity in Column 3 times the Unit Price Bid in Column 5.

(5) Prospective bidders must examine the Bid Schedule carefully and, before bidding, must advise the Commissioner, in writing, if any pages are missing, and must request that such missing pages be furnished them. The pages of this Bid Schedule are numbered consecutively, as follows:
B - 3 [REVISION # 1] Through B - 40 [REVISION # 1]

PLEASE BE SURE A LEGIBLE BID IS ENTERED FOR EACH ITEM.
THE BIDDER SHALL INSERT THE TOTAL BID PRICE IN
THE BID FORM ON PAGE C-4 OF THIS BID BOOKLET.

NEW YORK CITY DEPARTMENT OF DESIGN AND CONSTRUCTION
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PROJECT ID: HWPLZ012M
CONTRACT PIN: 8502016HW0036C

BID SCHEDULE FORM

COL. 1 SEQ. NO	COL. 2 ITEM NUMBER and DESCRIPTION	COL. 3 ENGINEER'S ESTIMATE OF QUANTITIY	COL. 4 UNIT	COL. 5 UNIT PRICE (IN FIGURES) DOLLARS	CTS	COL. 6 EXTENDED AMOUNT (IN FIGURES) DOLLARS	CTS
001	16.02 LN-05 A RIGID GALVANIZED STEEL CONDUIT- 1/2" NOM. DIA	14.00	L.F.				
002	4.02 AG ASPHALTIC CONCRETE WEARING COURSE, 3" THICK	308.00	S.Y.				
003	4.04 CC CONCRETE BASE FOR PAVEMENT, 8" THICK, CLASS B-32	69.00	C.Y.				
004	4.06 CONCRETE IN STRUCTURES, CLASS A-40	55.00	C.Y.				
005	4.07 CB NEW GRANITE CURB, STRAIGHT	317.00	L.F.				
006	4.07 CC NEW GRANITE CURB, CORNER	115.00	L.F.				

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007	4.11 CC SELECT GRANULAR FILL, PLACE MEASUREMENT	443.00	C.Y.				
008	4.13 ABS 4" CONCRETE SIDEWALK (PIGMENTED)	5,278.00	S.F.				
009	4.13 CBBS 7" CONCRETE SIDEWALK (PIGMENTED) (SAW CUT TYPE JOINTS)	3,255.00	S.F.				
010	4.13 DE EMBEDDED PREFORMED DETECTABLE WARNING UNITS	70.00	S.F.				
011	4.14 STEEL REINFORCEMENT BARS	5,500.00	LBS.				
012	4.14 W WELDED STEEL WIRE FABRIC	636.00	LBS.				

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013	4.15 TOPSOIL	142.00	C.Y.				
014	4.16 AA TREES REMOVED (4" TO UNDER 12" CALIPER)	3.00	EACH				
015	4.16 DA TREES PLANTED, 3-1/2" TO 4" CALIPER, ALL TYPES	4.00	EACH				
016	4.16 DA510 TREES PLANTED, 3-1/2" TO 4" CALIPER, ALL TYPES, IN 5' X 10' TREE PITS	1.00	EACH				
017	4.17 EG3G SHRUBS PLANTED, EVERGREEN, 3 GALLON, ALL TYPES	178.00	EACH				
018	4.17 EG5G SHRUBS PLANTED, EVERGREEN, 5 GALLON, ALL TYPES	12.00	EACH				

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019	4.17 FB FLOWERING BULB, PLANTED, ALL TYPES	708.00	EACH				
020	4.17 QT PERENNIAL AND GROUNDCOVER PLANTING 1 QUART	1,352.00	EACH				
021	4.18 C MAINTENANCE TREE PRUNING (18" TO UNDER 24" CAL.)	7.00	EACH				
022	4.18 LN-DM DRAINAGE MAT	150.00	S.F.				
023	4.18 RDM RODENT DETERRENT MESH	364.00	S.Y.				
024	4.21 TREE CONSULTANT	65.00	P/HR				

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025	50.31CC15 15" E.S.V.P. COMBINED SEWER, ON CONCRETE CRADLE	114.00	L.F.				
026	50.31SC08 8" E.S.V.P. SANITARY SEWER, ON CONCRETE CRADLE	32.00	L.F.				
027	51.21S0A1000V STANDARD MANHOLE TYPE A-1	2.00	EACH				
028	51.41S002 STANDARD CATCH BASIN, TYPE 2	2.00	EACH				
029	51.41S003 STANDARD CATCH BASIN, TYPE 3	1.00	EACH				
030	52.11D12 12" DUCTILE IRON PIPE BASIN CONNECTION	80.00	L.F.				

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031	52.41V06N NEW 6" E.S.V.P. HOUSE CONNECTION DRAIN ON CONCRETE CRADLE **Unit price bid shall not be greater than: $ 75.00**	25.00	L.F.				
032	55.11AB ABANDONING BASINS AND INLETS	2.00	EACH				
033	6.02 AAN UNCLASSIFIED EXCAVATION	318.00	C.Y.				
034	6.02 XSCW INCREMENTAL COST FOR USING SPECIAL CARE WORK METHODS NEAR (FROM 3 FEET TO 50 FEET) TRANSIT FACILITIES	67.00	C.Y.				
035	6.06 AB GRANITE BLOCK SIDEWALK (GROUTED JOINTS) (FURNISH BLOCK)	355.00	S.Y.				
036	6.07 AA EXISTING BLUESTONE FLAGS RELAID	250.00	S.F.				

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037	6.18 A STEEL BAR PICKET FENCE	226.00	L.F.				
038	6.20 BROKEN STONE BALLAST Unit price bid shall not be less than: $ 48.00	7.00	C.Y.				
039	6.23 BD FURNISH AND INSTALL 4-PAIR FIRE ALARM CABLE	14.00	L.F.				
040	6.25 RS TEMPORARY SIGNS	700.00	S.F.				
041	6.28 AA LIGHTED TIMBER BARRICADES	900.00	L.F.				
042	6.31 EGL DECORATIVE SEATING EGG LARGE	4.00	EACH				

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043	6.31 EGS DECORATIVE SEATING EGG SMALL	9.00	EACH				
044	6.36 DR STRUCTURAL REPAIR AND ADJUSTMENT OF UTILITY STRUCTURES	5.00	C.Y.				
045	6.40 B ENGINEER'S FIELD OFFICE (TYPE B)	24.00	MONTH				
046	6.44 THERMOPLASTIC REFLECTORIZED PAVEMENT MARKINGS (4" WIDE)	6,414.00	L.F.				
047	6.49 TEMPORARY PAVEMENT MARKINGS (4" WIDE)	1,000.00	L.F.				
048	6.52 CG CROSSING GUARD	7,730.00	P/HR				

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049	6.53 REMOVE EXISTING LANE MARKINGS (4" WIDE)	1,000.00	L.F.				
050	6.55 SAWCUTTING EXISTING PAVEMENT	558.00	L.F.				
051	6.59 P TEMPORARY CONCRETE BARRIER	100.00	L.F.				
052	6.64 PS PLAZA SIGNAGE	14.00	S.F.				
053	6.67 SUBBASE COURSE, SELECT GRANULAR MATERIAL	115.00	C.Y.				
054	6.68 PLASTIC FILTER FABRIC	3,176.00	S.Y.				

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055	6.74 GDP GALVANIZED STEEL FABRICATION - DIAMOND PLATE EDGE	186.00	S.F.				
056	6.74 GDR GALVANIZED STEEL FABRICATION - DECKING RAILING	86.00	L.F.				
057	6.74 GPR GALVANIZED STEEL FABRICATION - PLANTER RAILING	176.00	L.F.				
058	6.74 GSR GALVANIZED STEEL FABRICATION - STEEL HANDRAIL	25.00	L.F.				
059	6.77 PSR-L32G PUBLIC SPACE RECEPTACLE BIN FOR LITTER, 32 GALLON	3.00	EACH				
060	6.77 PSR-L44G PUBLIC SPACE RECEPTACLE BIN FOR LITTER, 44 GALLON	2.00	EACH				

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061	6.77 PSR-MGPC32G PUBLIC SPACE RECEPTACLE BIN FOR METAL, GLASS, PLASTIC & CARTONS, 32 GALLON	1.00	EACH				
062	6.77 PSR-MGPC44G PUBLIC SPACE RECEPTACLE BIN FOR METAL, GLASS, PLASTIC & CARTONS, 44 GALLON	2.00	EACH				
063	6.77 PSR-MP32G PUBLIC SPACE RECEPTACLE BIN FOR MIXED PAPER, 32 GALLON	1.00	EACH				
064	6.77 PSR-MP44G PUBLIC SPACE RECEPTACLE BIN FOR MIXED PAPER, 44 GALLON	2.00	EACH				
065	6.83 BA INSTALLING TRAFFIC SIGNS	15.00	S.F.				
066	6.83 BB INSTALLING TRAFFIC SIGN POSTS	15.00	L.F.				

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067	6.85 A TRAFFIC ENFORCEMENT AGENTS PRICE BID SHALL BE FOR THE FIXED SUM OF $ 633,227.02	1.00	F.S.	633,227	02	$633,227	02
068	6.87 PLASTIC BARRELS	100.00	EACH				
069	60.11R520 FURNISHING AND DELIVERING 20-INCH DUCTILE IRON RESTRAINED JOINT PIPE (CLASS 55)	10.00	L.F.				
070	60.11R604 FURNISHING AND DELIVERING 4-INCH DUCTILE IRON RESTRAINED JOINT PIPE (CLASS 56)	16.00	L.F.				
071	60.11R606 FURNISHING AND DELIVERING 6-INCH DUCTILE IRON RESTRAINED JOINT PIPE (CLASS 56)	15.00	L.F.				

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072	60.12D04 LAYING 4-INCH DUCTILE IRON PIPE AND FITTINGS	20.00	L.F.				
073	60.12D06 LAYING 6-INCH DUCTILE IRON PIPE AND FITTINGS	20.00	L.F.				
074	60.12D20 LAYING 20-INCH DUCTILE IRON PIPE AND FITTINGS	13.00	L.F.				
075	60.13M0A24 FURNISHING AND DELIVERING DUCTILE IRON MECHANICAL JOINT 24 -INCH DIAMETER AND SMALLER FITTINGS, INCLUDING WEDGE TYPE RETAINER GLANDS	1.00	TONS				
076	61.11DMM06 FURNISHING AND DELIVERING 6-INCH MECHANICAL JOINT DUCTILE IRON GATE VALVE COMPLETE WITH WEDGE TYPE RETAINER GLANDS	2.00	EACH				

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077	61.12DMM06 SETTING 6-INCH MECHANICAL JOINT DUCTILE IRON GATE VALVE COMPLETE WITH WEDGE TYPE RETAINER GLANDS	2.00	EACH				
078	62.11SS FURNISHING AND DELIVERING HYDRANTS - SMITH TYPE (S-2-LP)	2.00	EACH				
079	62.12SG SETTING HYDRANTS COMPLETE WITH WEDGE TYPE RETAINER GLANDS	2.00	EACH				
080	62.13RH REMOVING HYDRANTS	1.00	EACH				
081	62.14FD FURNISHING, DELIVERING AND INSTALLING HYDRANT FENDERS WITH DECORATIVE CAPS (BLACK)	4.00	EACH				
082	63.11VC FURNISHING AND DELIVERING VARIOUS CASTINGS	1.00	TONS				

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083	64.11EL WITHDRAWING AND REPLACING HOUSE SERVICES USING 1-1/2-INCH OR LARGER SCREW TAPS	1.00	EACH				
084	64.12COEG CUTTING AND OFFSETTING HOUSE SERVICE WATER CONNECTIONS (EQUAL TO OR GREATER THAN 3-INCH DIAMETER)	10.00	L.F.				
085	64.12ESEG EXTENDING HOUSE SERVICE WATER CONNECTIONS (EQUAL TO OR GREATER THAN 3-INCH DIAMETER)	10.00	L.F.				
086	65.11BR FURNISHING, DELIVERING AND INSTALLING BANDS, RODS, WASHERS, ETC., COMPLETE, FOR RESTRAINING JOINTS	10.00	LBS.				
087	65.21PS FURNISHING AND PLACING POLYETHYLENE SLEEVE **Unit price bid shall not be less than: $ 0.50**	50.00	L.F.				
088	65.31FF FURNISHING, DELIVERING AND PLACING FILTER FABRIC **Unit price bid shall not be less than: $ 0.10**	150.00	S.F.				

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089	65.71SG FURNISHING, DELIVERING AND PLACING SCREENED GRAVEL OR SCREENED BROKEN STONE BEDDING	15.00	C.Y.				
090	7.13 B MAINTENANCE OF SITE **Unit price bid shall not be less than: $ 8,000.00**	18.00	MONTH				
091	7.36 PEDESTRIAN STEEL BARRICADES	2,000.00	L.F.				
092	7.39 RPL-B RECYCLED PLASTIC LUMBER - BENCH	48.00	L.F.				
093	7.39 RPL-D RECYCLED PLASTIC LUMBER - DECKING & FRAME	822.00	S.F.				
094	7.50 STB STEEL BENCH BACKLESS	1.00	EACH				

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095	7.53 KBC CHAIR	80.00	EACH				
096	7.53 KBT TABLE	20.00	EACH				
097	7.53 KBT-ADA TABLE - ADA COMPLIANT	2.00	EACH				
098	70.61RE ROCK EXCAVATION	10.00	C.Y.				
099	70.71SB STONE BALLAST **Unit price bid shall not be less than: $ 15.00**	10.00	C.Y.				
100	70.81CB CLEAN BACKFILL **Unit price bid shall not be less than: $ 15.00**	25.00	C.Y.				

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101	70.91SW12 FURNISHING AND PLACING SHEETING AND BRACING IN TRENCH FOR WATER MAIN PIPE 12-INCH IN DIAMETER AND LESS	60.00	S.F.				
102	70.91SW20 FURNISHING AND PLACING SHEETING AND BRACING IN TRENCH FOR WATER MAIN PIPE 20-INCH IN DIAMETER	60.00	S.F.				
103	72.11HF HYDRAULIC FILL FOR ABANDONED SEWERS AND WATER MAINS	1.00	C.Y.				
104	8.01 C1 HANDLING, TRANSPORTING AND DISPOSAL OF NON-HAZARDOUS CONTAMINATED SOIL	500.00	TONS				
105	8.01 C2 SAMPLING AND TESTING OF CONTAMINATED/POTENTIALLY HAZARDOUS SOIL FOR DISPOSAL PURPOSES	5.00	SETS				
106	8.01 H HANDLING, TRANSPORTING AND DISPOSAL OF HAZARDOUS SOIL	25.00	TONS				

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107	8.01 S HEALTH AND SAFETY	1.00	L.S.				
108	8.01 W1 REMOVAL, TREATMENT, AND DISCHARGE/DISPOSAL OF CONTAMINATED WATER	7.00	DAY				
109	8.01 W2 SAMPLING AND TESTING OF CONTAMINATED WATER	1.00	SETS				
110	8.02 A SPECIAL CARE EXCAVATION AND RESTORATION FOR SIDEWALK WORK	1,516.00	S.F.				
111	8.07 TEMPORARY ALUMINUM PEDESTRIAN BRIDGE	10.00	EACH				
112	8.08 VMS VARIABLE MESSAGE SIGN	2.00	EACH				

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113	9.95 DIMENSIONED GRANITE MASONRY	21.00	C.Y.				
114	9.95 EGL DECORATIVE GRANITE SEATING EGG - LARGE	4.00	EACH				
115	9.95 EGS DECORATIVE GRANITE SEATING EGG - SMALL	9.00	EACH				
116	E 260519 AA LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (NO. 4/0 AWG WIRE)	25.00	L.F.				
117	E 260519 C LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (NO. 4 AWG WIRE)	20.00	L.F.				
118	E 260519 G LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (NO. 10 AWG WIRE)	107.00	L.F.				

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COL. 1 SEQ. NO	COL. 2 ITEM NUMBER and DESCRIPTION	COL. 3 ENGINEER'S ESTIMATE OF QUANTITIY	COL. 4 UNIT	COL. 5 UNIT PRICE (IN FIGURES) DOLLARS	CTS	COL. 6 EXTENDED AMOUNT (IN FIGURES) DOLLARS	CTS
119	E 260519 H LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (2#16 TYPE 4ABS6195), 110 kHz	150.00	L.F.				
120	E 260526 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS	287.00	L.F.				
121	E 260533 A0.75 METAL CONDUIT AND TUBING (3/4" GALVANIZED RIGID STEEL CONDUIT)	95.00	L.F.				
122	E 260533 A1.0 METAL CONDUIT AND TUBING (1" GALVANIZED RIGID STEEL CONDUIT)	55.00	L.F.				
123	E 260533 A1.25 METAL CONDUIT AND TUBING (1-1/4" GALVANIZED RIGID STEEL CONDUIT)	55.00	L.F.				
124	E 260533 AC2.5 METAL CONDUIT AND TUBING (2-1/2" GALVANIZED RIGID STEEL CONDUIT)	45.00	L.F.				

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125	E 260533 AE METAL CONDUIT AND TUBING (3" PVC COATED GALVANIZED RIGID STEEL CONDUIT)	35.00	L.F.				
126	E 260533 CA FREESTANDING PANEL BOARD ENCLOSURE	1.00	EACH				
127	E 260533 E LED STRIP LIGHT - EGG	42.00	L.F.				
128	E 260533 ST LED STRIP LIGHT - STEP	40.00	L.F.				
129	E 262416 A PANELBOARDS, 100 A 42 POLE WITH (42) IP-20A CB	1.00	EACH				
130	E 262713 ELECTRICITY METERING	1.00	EACH				

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131	E 262726 A GFCI RECEPTACLE (DUPLEX)	1.00	EACH				
132	E 262726 D SPRING WOUND MECHANICAL TIMER SWITCH	1.00	EACH				
133	HW-914 ALLOWANCE FOR WAYFINDING TOTEMS PRICE BID SHALL BE FOR THE FIXED SUM OF $ 12,000.00	1.00	F.S.	12,000	00	$12,000	00
134	NYCT-SP RELOCATE NYCT STANDPIPE PRICE BID SHALL BE FOR THE FIXED SUM OF $ 3,800.00	1.00	F.S.	3,800	00	$3,800	00
135	P 220517 - 1D SLEEVES AND SLEEVE SEALSFOR PLUMBING PIPING - 1 INCH DIA	2.00	SETS				

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136	P 220517 - 2D SLEEVES AND SLEEVE SEALSFOR PLUMBING PIPING - 2 INCH DIA	6.00	SETS				
137	P 220523 1BV GENERAL-DUTY VALVES FOR PLUMBING PIPING - 1" BALL VALVE	3.00	EACH				
138	P 220523 2BRV GENERAL-DUTY VALVES FOR PLUMBING PIPING - 2" BRONZE VALVE	1.00	EACH				
139	P 220523 2BV GENERAL-DUTY VALVES FOR PLUMBING PIPING - 2" BALL VALVE	3.00	EACH				
140	P 220523 2SOV GENERAL-DUTY VALVES FOR PLUMBING PIPING - 2" SHUT OFF VALVES	1.00	EACH				
141	P 220523 2SV GENERAL-DUTY VALVES FOR PLUMBING PIPING - 2" STEEL VALVE	1.00	EACH				

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142	PK-124 CAP WATER LINE	1.00	EACH				
143	PK-12D WATER TAP, 2" DIAMETER	1.00	EACH				
144	PK-13D TYPE K COPPER TUBING, 1" DIAMETER	20.00	L.F.				
145	PK-13F TYPE K COPPER TUBING, 2" DIAMETER	95.00	L.F.				
146	PK-143 RPZ & WATER METER WITH REMOTE & STRUCTURE - 2" DIA.	1.00	EACH				
147	PK-14D CURB GATE VALVE, 2" DIAMETER	1.00	EACH				

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148	PK-17 CAST IRON VALVE BOX, 5-1/4" DIAMETER	1.00	EACH				
149	PK-182 IN-GROUND IRRIGATION SYSTEM - AUTOMATIC	1,880.00	S.F.				
150	PK-184-GH1 GROUND HYDRANT - 1" DIAMETER	3.00	EACH				
151	PK-44 HAND AND/OR PNEUMATIC EXCAVATION	15.00	C.Y.				
152	SL-100.01.02 FURNISH AND INSTALL FOUNDATION WITH 2 CONDUIT BENDS FOR STREET LAMPPOST AS PER DRAWINGS E-3788 AND J-5227	3.00	EACH				
153	SL-20.01.01 FURNISH AND INSTALL FOUNDATION FOR TYPE "B" OR "B12" POST WITH INTERNAL FLANGE, AS PER DRAWING E-3884	6.00	EACH				

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154	SL-20.06.03 RELOCATE POST ON NEW FOUNDATION, WITH ALL APPURTENANT EQUIPMENT WITHIN 500ft FOUNDATION AS PER DRAWINGs E-3788 OR H-5253. REMOVE PORTION OF OLD FOUNDATION TO 10" BELOW GRADE.	3.00	EACH				
155	SL-20.08.03 REMOVE PORTION OF A CONCRETE FOUNDATION. USE THIS ITEM WHERE LAMPPOST LOCATION IS BEING ABANDONED.	1.00	EACH				
156	SL-21.01.08 FURNISH AND INSTALL TYPE "B12" LAMPPOST WITH INTERNAL FLANGE	6.00	EACH				
157	SL-21.09.05 REMOVE STANDARD FABRICATED STEEL, SPUN ALUMINUM NO. 10, ETC. WITH ARM(S), LUMINAIRE(S), CONTROL(S) WITH ALL ATTACHMENTS, IF ANY.	1.00	EACH				
158	SL-22.15.03 FURNISH AND INSTALL 75 WATT LED "RIVERSIDE PARK" TYPE LUMINAIRE	6.00	EACH				

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159	SL-22.16.05 FURNISH AND INSTALL ROADWAY TYPE LED FIXTURE AS PER SPECIFICATION 466 WITH PEC RECEPTACLE AND PEC	3.00	EACH				
160	SL-26.01.01 FURNISH AND INSTALL, OR FURNISH AND REPLACE A PLUG-IN SOLID STATE PHOTOELECTRIC CONTROL	6.00	EACH				
161	SL-26.02.02 FURNISH AND INSTALL RECEPTACLE FOR PLUG-IN PHOTOELECTRIC CONTROL	6.00	EACH				
162	SL-29.01.01 FURNISH, INSTALL, MAINTAIN AND REMOVE EQUIPMENT FOR TEMPORARY LIGHTING (PYLON), AS PER DRAWINGS F-5005 AND F-5005A	4.00	EACH				
163	SL-33.01.01 FURNISH AND INSTALL NO. 12 AWG XLP COPPER WIRE OR EQUAL IN CONDUIT	210.00	L.F.				
164	SL-33.01.02 FURNISH AND INSTALL NO. 6 AWG XLP COPPER CABLE OR EQUAL IN CONDUIT	575.00	L.F.				

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165	SL-35.01.03 FURNISH AND INSTALL 1-1/2" HOT DIPPED GALVANIZED STEEL CONDUIT IN PAVED AREA.	265.00	L.F.				
166	SL-37.05.07 FURNISH AND INSTALL TYPE 4824 SIDEWALK CONCRETE BOX WITH CAST IRON FRAME AND COVER WITH TAMPER PROOF BOLTS AS PER DWG J-3179A.	1.00	EACH				
167	SL-37.05.09 FURNISH AND INSTALL TYPE 2418 ROADWAY CONCRETE BOX WITH CAST IRON FRAME AND COVER WITH TAMPER PROOF BOLTS AS PER DWG J-3179B.	2.00	EACH				
168	SL-40.02.01 FURNISH AND INSTALL 20 AMPERES, 120vac GROUND FAULT RECEPTACLE ON A LAMPPOST.	6.00	EACH				
169	T-1.1 INSTALL TYPE "S" OR "T" FOUNDATION	1.00	EACH				

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COL. 1 SEQ. NO	COL. 2 ITEM NUMBER and DESCRIPTION	COL. 3 ENGINEER'S ESTIMATE OF QUANTITIY	COL. 4 UNIT	COL. 5 UNIT PRICE (IN FIGURES) DOLLARS	CTS	COL. 6 EXTENDED AMOUNT (IN FIGURES) DOLLARS	CTS
170	T-1.18 REMOVE TYPE "A", "B", "S" OR "T" SERIES FOUNDATION	1.00	EACH				
171	T-1.20 REMOVE TYPE "M" SERIES FOUNDATION	1.00	EACH				
172	T-1.29 RAISE OR LOWER FOUNDATION TO GRADE	1.00	EACH				
173	T-1.3 INSTALL TYPE "M2-5S" FOUNDATION	2.00	EACH				
174	T-2.1 INSTALL TYPE "S-1" OR "T-1" SERIES POST	1.00	EACH				
175	T-2.16 FURNISH, INSTALL, MAINTAIN AND REMOVE TEMPORARY POST OR PYLON WITH SIGNALS	5.00	EACH				

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176	T-2.22 REMOVE TYPE "S-1" OR "T-1" SERIES POST	1.00	EACH				
177	T-2.24 REMOVE TYPE "M" SERIES POST	1.00	EACH				
178	T-2.28 REMOVE MAST ARM FROM ANY POST	1.00	EACH				
179	T-2.4 INSTALL TYPE "M-2" POST	2.00	EACH				
180	T-20000 FURNISH TEN FOOT ALUMINUM SIGNAL POST TYPE "S-1"	1.00	EACH				
181	T-20020 a) FURNISH 3/4" ANCHOR BOLT ASSEMBLIES FOR S-1 (EACH) (3 REQUIRED PER POST)	3.00	EACH				

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182	T-20160 FURNISH 20 FOOT SIGNAL MAST ARM POLE ASSEMBLY TYPE "M-2"	2.00	EACH				
183	T-20184 a) FURNISH 5' EXTENSION ARM ASSEMBLY WITH FITTINGS	1.00	EACH				
184	T-20220 c) FURNISH 1-1/4" ANCHOR BOLT ASSEMBLIES FOR M-2 (EACH) (4 REQUIRED PER POST)	8.00	EACH				
185	T-3.1 INSTALL "ONE-WAY" SIGNAL UNIT ON MAST ARM OR TOP OF TRAFFIC POST	2.00	EACH				
186	T-3.18 REMOVE SIGNAL HEAD FROM ANY TYPE POST	2.00	EACH				
187	T-3.21 REMOVE PEDESTRIAN SIGNAL OR SIGN UNIT OR OTHER ILLUMINATED SIGNS FROM ANY POST	6.00	EACH				

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188	T-3.6 INSTALL PEDESTRIAN SIGNAL ON ANY TYPE POST	6.00	EACH				
189	T-30013L FURNISH ADJUSTABLE 3 SECTION 1-WAY, DIE CAST ALUMINUM TRAFFIC SIGNALS 8" - W/LED LENS	2.00	EACH				
190	T-31205 FURNISH MAST ARM SIGNAL MOUNTING ASSEMBLY - a) "1MS"	2.00	EACH				
191	T-31210 h) "HUB" ASSEMBLY *ASSEMBLY IS EQUAL TO ONE PAIR	4.00	EACH				
192	T-31340 f) "VB-P" ASSEMBLY *ASSEMBLY IS EQUAL TO ONE PAIR	2.00	EACH				
193	T-31351 g) "VB-2P" ASSEMBLY *ASSEMBLY IS EQUAL TO ONE PAIR	2.00	EACH				

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194	T-33000L FURNISH POLYCARBONATE INCANDESCENT PED SIGNAL W/LED LENS	4.00	EACH				
195	T-33001-L FURNISH POLYCARBONATE PEDESTRIAN SIGNAL (16 X 16) W/LED COUNT LENS (SPECIFICATION A-L)	2.00	EACH				
196	T-4.22 INSTALL ANY TYPE OF ADVANCED SOLID STATE TRAFFIC SIGNAL CONTROLLER AND CABINET ON METAL POLE	1.00	EACH				
197	T-4.8 REMOVE ONE CONTROL BOX AND CONTROLLER FROM ANY POST OR SUPPORT	1.00	EACH				
198	T-5.1 FURNISH AND INSTALL 2" RIGID UNDERGROUND CONDUIT IN UNPAVED ROADWAY	150.00	L.F.				
199	T-5.2 FURNISH AND INSTALL 2" RIGID UNDERGROUND CONDUIT IN PAVED ROADWAY	200.00	L.F.				

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200	T-5.32 RESTORING PERMANENT ROADWAY (INCLUDING SAWCUT)	200.00	L.F.				
201	T-6.1 INSTALL CABLE (INCLUDES OVERHEAD)	600.00	L.F.				
202	T-6.10 REMOVE CABLE (INCLUDES OVERHEAD)	1,000.00	L.F.				
203	T-6.2 INSTALL MULTIPLE CABLE (INCLUDES OVERHEAD)	1,000.00	L.F.				
204	T-60000B FURNISH 2 c # 10B (BREAKDOWN = 2#10 WITH 3RD WIRE FOR GROUNDING).	1,000.00	L.F.				
205	T-60040 c) 7 CONDUCTOR, 14 A.W.G.	500.00	L.F.				

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206	T-60190 e) 13 CONDUCTOR, 14 A.W.G.	1,200.00	L.F.				
207	T-8.10 RELOCATE CONCRETE PYLON WITH POST	2.00	EACH				
208	T-8.8 INSTALL CONCRETE PYLON	2.00	EACH				
209	T-8.9 REMOVE CONCRETE PYLON	2.00	EACH				
210	T-81000 FURNISH CONCRETE PYLON	2.00	EACH				

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211	6.39 A MOBILIZATION BID PRICE OF MOBILIZATION SHALL NOT EXCEED 4% OF THE ABOVE SUB-TOTAL PRICE.	1.00	L.S.				

SUB-TOTAL: $ _____

TOTAL BID PRICE: $ _____

PLEASE BE SURE A LEGIBLE BID IS ENTERED FOR EACH ITEM.
THE BIDDER SHALL INSERT THE TOTAL BID PRICE IN
THE BID FORM ON PAGE C-4 OF THIS BID BOOKLET.

SECTION E 260519
LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

PART 1 GENERAL

1.1 SUMMARY

A. This Section includes the following:
   1. Building wires and cables rated 600 V and less.
   2. Connectors, splices, and terminations rated 600 V and less.

1.2 SUBMITTALS

A. Product Data: For each type of product indicated.
B. Field quality-control test reports.

1.3 QUALITY ASSURANCE

A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in the New York City Electrical Code, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
B. Comply with New York City Electrical Code.

PART 2 PRODUCTS

2.1 CONDUCTORS AND CABLES

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include the following:
   1. Alcan Products Corporation; Alcan Cable Division.
   2. American Insulated Wire Corp.; a Leviton Company.
   3. General Cable Corporation.
   4. Senator Wire & Cable Company.
   5. Southwire Company.
   6. AFC Cable Systems, Inc.
   7. Or an approved equivalent.
B. Copper Conductors: Comply with NEMA WC 70.
C. Conductor Insulation: Comply with NEMA WC70 for Types XHHW.

2.2 CONNECTORS AND SPLICES

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include the following:
   1. AFC Cable Systems, Inc.
   2. Hubbell Power Systems, Inc.
   3. 0-Z/Gedney; EGS Electrical Group LLC.
   4. 3M; Electrical Products Division.
   5. Tyco Electronics Corp.
   6. Or an approved equivalent.
B. Description: Factory-fabricated connectors and splices of size, ampacity rating, material, type, and class for application and service indicated.

PART 3EXECUTION

3.1 CONDUCTOR MATERIAL APPLICATIONS

A. Feeders: All feeders shall be copper. Solid for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.

B. Branch Circuits: Copper. Solid for No. 10 AWG and smaller; stranded for No. 8 AWG and larger.

3.2 CONDUCTOR INSULATION AND MULTICONDUCTOR CABLE APPLICATIONS AND WIRING• METHODS

A. Service Entrance: Type XHHW, single conductors in raceway.

B. Feeders: Type XHHW, single conductors in raceway.

C. Branch Circuits: Type XHHW, single conductors in raceway.

3.3 INSTALLATION OF CONDUCTORS AND CABLES

A. Use manufacturer-approved pulling compound or lubricant where necessary; compound used must not deteriorate conductor or insulation. Do not exceed manufacturer's recommended maximum pulling tensions and sidewall pressure values.

B. Use pulling means, including fish tape, cable, rope, and basket-weave wire/cable grips that will not damage cables or raceway.

C. Install exposed conduits/cables parallel and perpendicular to surfaces of exposed structural members, and follow surface contours where possible.

3.4 CONNECTIONS

A. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.

B. Make splices and taps that are compatible with conductor material and that possess equivalent or better mechanical strength and insulation ratings than unspliced conductors.

C. Wiring at Outlets: Install conductor at each outlet, with at least 6 inches of slack.

3.5 FIELD QUALITY CONTROL

A. Perform tests and inspections and prepare test reports.

B. Tests and Inspections:

1. After installing conductors and cables and before electrical circuitry has been energized, test service entrance and feeder conductors, and branch conductors for compliance with requirements.
2. Perform each visual and mechanical inspection and electrical test stated in NETA Acceptance Testing Specification. Certify compliance with test parameters.
3. Infrared Scanning: After Substantial Completion, but not more than 60 days after Final Acceptance, perform an infrared scan of each splice in cables and conductors No.4 AWG and larger. Remove box and equipment covers so splices are accessible to portable scanner.

a. Instrument: Use an infrared scanning device designed to measure temperature or to detect significant deviations from normal values. Provide calibration record for device.

b. Record of Infrared Scanning: Prepare a certified report that identifies splices checked and that describes scanning results. Include notation of deficiencies detected, remedial action taken and observations after remedial action.

C. Test Reports: Prepare a written report to record the following:

1. Test procedures used.
2. Test results that comply with requirements.
3. Test results that do not comply with requirements and corrective action taken to achieve compliance with requirements.

D. Remove and replace malfunctioning units and retest as specified above.

PART 4MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

A. The quantity of Conductors and Cables to be paid for under ITEM Nos. E 260519 AA, E 260519 BA, E 260519 B, E 260519 C, E 260519 D, E 260519 E, E 260519 G, E 260519 F, E 260519 H, E 260519 H3C, E 260519 H4C, E 260519 H5C and E 260519 H3-4P, shall be the actual number of linear feet of each size conductors and cables actually installed to complete the work, to the satisfaction of the Engineer. When multiple lengths of conductors are used as a cable, each length of conductor shall be measured separately.

4.2 PRICES TO COVER

A. The unit price bid per linear foot of each size conductor or cable shall cover the cost of furnishing all labor, materials, equipment, insurance, and incidentals to complete the work including, but not limited to, furnishing and placing conductor and cable, and all associated connectors and splices, all in accordance with the Contract Drawings, the specifications, and the directions of the Engineer.

Payment will be made under:

Item No.	Item	Pay Unit
E 260519 AA	LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (NO. 4/0 AWG WIRE)	L.F.
E 260519 BA	LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (NO. 1/0 AWG WIRE)	L.F.
E 260519 B	LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (NO. 2 AWG WIRE)	L.F.
E 260519 C	LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (NO. 4 AWG WIRE)	L.F.
E 260519 D	LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (NO. 6 AWG WIRE)	L.F.

E 260519 E	LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (NO. 8 AWG WIRE)	L.F.
E 260519 G	LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (NO. 10 AWG WIRE)	L.F.
E 260519 F	LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (NO. 12 AWG WIRE)	L.F.
E 260519 H	LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (2#16 Type 4ABS6195), 110 kHz	L.F.
E 260519 H3C	LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (3 Core YY #18), 110 kHz	L.F.
E 260519 H4C	LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (4 Core YY #18), 110 kHz	L.F.
E 260519 H5C	LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (5 Core YY #18), 110 kHz	L.F.
E 260519 H3-4P	LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (3-4 PAIR #18 TWISTED PAIR), 110 kHz	L.F.

E 260533 RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS

I. GENERAL

(A) SUMMARY

1. This Section includes raceways, fittings, boxes, enclosures, and cabinets for electrical wiring.

(B) DEFINITIONS

1. LFMC: Liquidtight flexible metal conduit.

(C) SUBMITTALS

1. Product Data: For surface raceways, wireways and fittings, floor boxes, hinged-cover enclosures, and cabinets.

2. Shop Drawings: For the following raceway components. Include plans, elevations, sections, details, and attachments to other work.

   A. Custom enclosures and cabinets.
   B. For handholes and boxes for underground wiring, including the following:

      1. Duct entry provisions, including locations and duct sizes.
      2. Frame and cover design.
      3. Grounding details.
      4. Dimensioned locations of cable rack inserts, and pulling-in and lifting irons.
      5. Joint details.

(D) QUALITY ASSURANCE

1. Electrical Components, Devices, and Accessories: Listed and labeled as defined in New York City Electrical Code, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

2. Comply with New York City Electrical Code.

II. PRODUCTS

(A) LED STRIP LIGHTING FOR STEP AND EGG

1. Basis-of-Design, Product: Subject to compliance with requirements, provide LED Strip Lighting for the step and eggs from the following manufacturer or equal as approved by the Engineer:

a. Flexible LED Tape Light, 120V, Item IQ68-30-50-90-4.4 (for step) and Flexible LED Power Strip, 120V, Item IQ68-30-FLF-80-3.3 (for egg) as supplied by Q-Tran Inc., 155 Hill Street, Milford, CT. 06460, 203-367-8777, www.q-tran.com

2. Subject to compliance with requirements, other available manufacturers include:

   a. Eaton Cooper Industries, 1000 Eaton Boulevard, Cleveland, Ohio 44122, 800-386-1911, www.copperindustries.com
   b. Kichler Lighting, 7711 East Pleasant Valley Road, P.O. Box 318010, Cleveland, Ohio 44131, 866-558-5706, www.kichler.com
   c. Or approved equal

(B) METAL CONDUIT AND TUBING

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include the following:

   A. AFC Cable Systems, Inc.
   B. Alflex Inc.
   C. Allied Tube & Conduit; a Tyco International Ltd. Co.
   D. Anamet Electrical, Inc.; Anaconda Metal Hose.
   E. Electri-Flex Co.
   F. Manhattan/CDT/Cole-Flex.
   G. Maverick Tube Corporation.
   H. O-Z Gedney; a unit of General Signal.
   I. Wheatland Tube Company.
   J. Or an approved equivalent.

2. Rigid Steel Conduit: ANSI C80.1.

3. LFMC: Flexible steel conduit with PVC jacket.

4. Joint Compound for Rigid Steel Conduit: Listed for use in cable connector assemblies, and compounded for use to lubricate and protect threaded raceway joints from corrosion and enhance their conductivity.

5. PVC Coated Rigid Galvanized Steel Conduit: UL 6 and ANSI C80.1.

(C) METAL WIREWAYS

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include the following:

   A. Cooper B-Line, Inc.
   B. Hoffman.
   C. Square D; Schneider Electric.
   D. Or an approved equivalent.

2. Description: Sheet metal sized and shaped as indicated, NEMA 250, Type 1, unless otherwise indicated.

3. Fittings and Accessories: Include couplings, offsets, elbows, expansion joints, adapters, hold-down straps, end caps, and other fittings to match and mate with wireways as required for complete system.

4. Wireway Covers: Screw-cover type.

5. Finish: Manufacturer's standard enamel finish.

(D) BOXES, ENCLOSURES, AND CABINETS

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include the following:

   A. Cooper Crouse-Hinds; Div. of Cooper Industries, Inc.
   B. EGS/Appleton Electric.
   C. Erickson Electrical Equipment Company.
   D. Hoffman.
   E. Hubbell Incorporated; Killark Electric Manufacturing Co. Division.
   F. O-Z/Gedney; a unit of General Signal.
   G. RACO; a Hubbell Company.
   H. Robroy Industries, Inc.; Enclosure Division.
   I. Scott Fetzer Co.; Adalet Division.
   J. Spring City Electrical Manufacturing Company.
   K. Thomas & Betts Corporation.
   L. Walker Systems, Inc.; Wiremold Company (The).
   M. Woodhead, Daniel Company; Woodhead Industries, Inc. Subsidiary.
   N. Or an approved equivalent.

2. Sheet Metal Outlet and Device Boxes: NEMA OS 1.

3. Metal Floor Boxes: Cast or sheet metal, fully adjustable, rectangular.

4. Small Sheet Metal Pull and Junction Boxes: NEMA OS 1.

5. Cast-Metal Access, Pull, and Junction Boxes: NEMA FB 1, cast aluminum with gasketed cover.

6. Hinged-Cover Enclosures: NEMA 250, Type 4X, with continuous-hinge cover with flush vandal resistant latch, unless otherwise indicated.

   A. Metal Enclosures: Type A316L Stainless Steel.

(E) HANDHOLES AND BOXES FOR EXTERIOR UNDERGROUND WIRING

1. Description: Comply with SCTE 77.

   A. Color of Frame and Cover: Gray in hardscaped areas and Green in landscaped areas.
   B. Configuration: Units shall be designed for flush burial and have open bottom, unless otherwise indicated.
   C. Cover: Weatherproof, secured by tamper-resistant locking devices and having structural load rating consistent with enclosure.

D. Cover Finish: Nonskid finish shall have a minimum coefficient of friction of 0.50.
E. Cover Legend: Molded lettering, as indicated for each service.
F. Conduit Entrance Provisions: Conduit-terminating fittings shall mate with entering ducts for secure, fixed installation in enclosure wall.
G. Handholes 12 inches wide by 24 inches long and larger shall have inserts for cable racks and pulling-in irons installed before concrete is poured.

2. Polymer-Concrete Handholes and Boxes with Polymer-Concrete Cover: Molded of sand and aggregate, bound together with polymer resin, and reinforced with steel or fiberglass or a combination of the two.

A. Basis-of-Design Product: Subject to compliance with requirements, provide the product indicated on Drawings or a comparable product by one of the following:

1. Armorcast Products Company.
2. Carson Industries LLC.
3. CDR Systems Corporation.
4. NewBasis.
5. Or an approved equivalent.

III. EXECUTION

(A) RACEWAY APPLICATION

1. Outdoors: Apply raceway products as specified below, unless otherwise indicated:

A. Exposed Conduit: Rigid steel conduit.
B. Concealed Conduit, Aboveground: Rigid steel conduit.
C. Underground Conduit: PVC Coated Rigid Galvanized steel conduit, direct buried.
D. Connection to Vibrating Equipment (Including Transformers and Hydraulic, Pneumatic, Electric Solenoid, or Motor-Driven Equipment): LFMC.
E. Boxes and Enclosures, Aboveground: NEMA 250, Type 4X.

2. Minimum Raceway Size: 3/4-inch trade size.

3. Raceway Fittings: Compatible with raceways and suitable for use and location.

A. Rigid Steel Conduit: Use threaded rigid steel conduit fittings, unless otherwise indicated.

B. PVC Coated Rigid Galvanized Steel Conduit: Conduit bodies and fittings shall be as by same manufacturer of PVC Coated rigid galvanized steel conduit.

(B) INSTALLATION

1. Comply with NECA 1 for installation requirements applicable to products specified in Part 2 except where requirements on Drawings or in this Article are stricter.

2. Keep raceways at least 6 inches away from parallel runs of flues and steam or hot-water pipes. Install horizontal raceway runs above water and steam piping.

3. Complete raceway installation before starting conductor installation.

4. Arrange stub-ups so curved portions of bends are not visible above the finished slab.

5. Install no more than the equivalent of three 90-degree bends in any conduit run except for communications conduits, for which fewer bends are allowed.

6. Conceal conduit, unless otherwise indicated.

7. Raceways Embedded in Slabs:

   A. Run conduit larger than 1-inch trade size, parallel or at right angles to main reinforcement. Where at right angles to reinforcement, place conduit close to slab support.

8. Threaded Conduit Joints, Exposed to Wet, Damp, Corrosive, or Outdoor Conditions: Apply listed compound to threads of raceway and fittings before making up joints. Follow compound manufacturer's written instructions.

9. Raceway Terminations at Locations Subject to Moisture or Vibration: Use insulating bushings to protect conductors, including conductors smaller than No. 4 AWG.

10. Install pull wires in empty raceways. Use polypropylene or monofilament plastic line with not less than 200-lb tensile strength. Leave at least 12 inches of slack at each end of pull wire.

11. Raceways for Optical Fiber and Communications Cable: Install raceways, metallic and nonmetallic, rigid and flexible, as follows:

    A. 3/4-Inch Trade Size and Smaller: Install raceways in maximum lengths of 50 feet.
    B. 1-Inch Trade Size and Larger: Install raceways in maximum lengths of 75 feet.
    C. Install with a maximum of two 90-degree bends or equivalent for each length of raceway unless Drawings show stricter requirements. Separate lengths with pull or junction boxes or terminations at distribution frames or cabinets where necessary to comply with these requirements.

12. Install raceway sealing fittings at suitable, approved, and accessible locations and fill them with listed sealing compound. For concealed raceways, install each fitting in a flush steel box with a blank cover plate having a finish similar to that of adjacent plates or surfaces. Install raceway sealing fittings at the following points:

    A. Where required by New York City Electrical Code.

13. Flexible Conduit Connections: Use maximum of 72 inches of flexible conduit for equipment subject to vibration, noise transmission, or movement; and for transformers and motors.

    A. Use LFMC in damp or wet locations subject to severe physical damage.

B. Use LFMC in damp or wet locations not subject to severe physical damage.

14. Recessed Boxes in Masonry Walls: Saw-cut opening for box in center of cell of masonry block, and install box flush with surface of wall.

15. Set metal floor boxes level and flush with finished floor surface.

(C) INSTALLATION OF UNDERGROUND CONDUIT

1. Direct-Buried Conduit:

A. Excavate trench bottom to provide firm and uniform support for conduit. Prepare trench bottom for pipe less than 6 inches in nominal diameter.
B. Install backfill.
C. After installing conduit, backfill and compact. Start at tie-in point, and work toward end of conduit run, leaving conduit at end of run free to move with expansion and contraction as temperature changes during this process. Firmly hand tamp backfill around conduit to provide maximum supporting strength. After placing controlled backfill to within 12 inches of finished grade, make final conduit connection at end of run and complete backfilling with normal compaction.
D. Install manufactured rigid steel conduit elbows for stub-ups at poles and equipment and at building entrances through the floor.

1. Couple steel conduits to ducts with adapters designed for this purpose, and encase coupling with 3 inches of concrete.
2. For stub-ups at equipment mounted on outdoor concrete bases, extend steel conduit horizontally a minimum of 60 inches from edge of equipment pad or foundation. Install insulated grounding bushings on terminations at equipment.

E. Warning Planks: Bury warning planks approximately 12 inches above direct-buried conduits, placing them 24 inches o.c. Align planks along the width and along the centerline of conduit.

(D) INSTALLATION OF UNDERGROUND HANDHOLES AND BOXES

1. Install handholes and boxes level and plumb and with orientation and depth coordinated with connecting conduits to minimize bends and deflections required for proper entrances.

2. Unless otherwise indicated, support units on a level bed of crushed stone or gravel, graded from 1/2-inch sieve to No. 4 sieve and compacted to same density as adjacent undisturbed earth.

3. Elevation: In paved areas, set so cover surface will be flush with finished grade. Set covers of other enclosures 1 inch above finished grade.

4. Install removable hardware, including pulling eyes, cable stanchions, cable arms, and insulators, as required for installation and support of cables and conductors and as indicated. Select arm lengths to be long enough to provide spare space for

future cables, but short enough to preserve adequate working clearances in the enclosure.

5. Field-cut openings for conduits according to enclosure manufacturer's written instructions. Cut wall of enclosure with a tool designed for material to be cut. Size holes for terminating fittings to be used, and seal around penetrations after fittings are installed.

(E) PROTECTION

1. Provide final protection and maintain conditions that ensure coatings, finishes, and cabinets are without damage or deterioration at time of Substantial Completion.

   A. Repair damage to galvanized finishes with zinc-rich paint recommended by manufacturer.
   B. Repair damage to paint finishes with matching touchup coating recommended by manufacturer.

IV. MEASUREMENT AND PAYMENT

(A) MEASUREMENT

1. The quantity of Metal Conduit and Tubing to be paid for under ITEMS E 260533 AA, E 260533 AB, E 260533 AC, and E 260533 AD shall be the actual number of linear feet of Metal Conduit and Tubing, installed to complete the work, to the satisfaction of the Engineer.

2. The quantity of Metal Wireways to be paid for under ITEM E 260533 B shall be the actual number of linear feet of Metal Wireways, installed to complete the work, to the satisfaction of the Engineer.

3. The quantity of Boxes, Enclosures, and Cabinets to be paid for under ITEMS E 260533 CA, E 260533 CB and E 260533 CC shall be the actual number of Boxes, Enclosures, and Cabinets, installed to complete the work, to the satisfaction of the Engineer.

4. The quantity of Handholes and Boxes for Exterior Underground Wiring to be paid for under ITEM E 260533 D shall be the actual number of Handholes or Boxes for Exterior Underground Wiring, installed to complete the work, to the satisfaction of the Engineer.

5. The quantity of LED Light Strip Light (Step) to be paid for under ITEM E 260533 ST shall be the number of linear feet of LED Light Strip (Step) installed to complete the work, to the satisfaction of the Engineer.

6. The quantity of LED Light Strip Light (Egg) to be paid for under ITEM E 260533 E shall be the number of linear feet of LED Light Strip (Egg) installed to complete the work, to the satisfaction of the Engineer.

(B) PRICES TO COVER

1. The unit price bid per linear foot of Metal Conduit and Tubing, under ITEMS E 260533 AA, E 260533 AB, E 260533 AC and E 260533 AD, shall cover the cost of furnishing all labor, materials, equipment, insurance, and incidentals to complete the work including, but not limited to, furnishing and placing Metal Conduit and Tubing, and all associated connectors and splices, all in accordance with the Contract Drawings, the specifications, and the directions of the Engineer.

2. The unit price bid per linear foot of Metal Wireways, under ITEM E 260533 B, shall cover the cost of furnishing all labor, materials, equipment, insurance, and incidentals to complete the work including, but not limited to, furnishing and placing Metal Wireways, all in accordance with the Contract Drawings, the specifications, and the directions of the Engineer.

3. The unit price bid per each Enclosure, under ITEMS E 260533 CA, E 260533 CB and E 260533 CC, shall cover the cost of furnishing all labor, materials, equipment, insurance, and incidentals to complete the work including, but not limited to, furnishing and placing concrete foundations and footings and Electrical Enclosure Bollards, as per Section E 260529, and furnishing and installing Enclosure, all in accordance with the Contract Drawings, the specifications, and the directions of the Engineer.

4. The unit price bid per each Handholes and Boxes for Exterior Underground Wiring, under ITEM E 260533 D, shall cover the cost of furnishing all labor, materials, equipment, insurance, and incidentals to complete the work including, but not limited to, furnishing and placing the Handholes and Boxes for Exterior Underground Wiring, all in accordance with the Contract Drawings, the specifications, and the directions of the Engineer.

5. The unit price per linear foot of LED Light Strip Light (Step) under ITEM E 260533 ST, shall cover the cost of furnishing all labor, materials, equipment, insurance, and incidentals to complete the work including, but not limited to, furnishing and placing the LED Light Strip Light (Step), all in accordance with the Contract Drawings, the specifications, and the directions of the Engineer.

6. The unit price per linear foot of LED Light Strip Light (Egg) under ITEM E 260533 E, shall cover the cost of furnishing all labor, materials, equipment, insurance, and incidentals to complete the work including, but not limited to, furnishing and placing the LED Light Strip Light (Egg), all in accordance with the Contract Drawings, the specifications, and the directions of the Engineer

Payment will be made under:

Item No.	Item	Pay Unit
E 260533 A0.75	METAL CONDUIT AND TUBING (3/4" GALVANIZED RIGID STEEL CONDUIT)	LF.
E 260533 A1.0	METAL CONDUIT AND TUBING (1" GALVANIZED RIGID STEEL CONDUIT)	L.F.

E 260533 A1.25	METAL CONDUIT AND TUBING (1-1/4" GALVANIZED RIGID STEEL CONDUIT)	L.F.
E 260533 A1.5	METAL CONDUIT AND TUBING (1-1/2" GALVANIZED RIGID STEEL CONDUIT)	
E 260533 AC2.0	METAL CONDUIT AND TUBING (2" GALVANIZED RIGID STEEL CONDUIT)	
E 260533 AC2.5	METAL CONDUIT AND TUBING (2-1/2" GALVANIZED RIGID STEEL CONDUIT)	
E 260533 AC3.0	METAL CONDUIT AND TUBING (3" GALVANIZED RIGID STEEL CONDUIT)	
E 260533 AE	RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS – 3" PVC COATED CONDUIT)	L.F.
E 260533 C	RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS-CONDUIT	L.F.
E 260533 CA	RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS-FREESTANDING PANEL BOARD ENCLOSURE	EACH
E 260533 D	RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS-RECEPTACLES	EACH
E 260533 E	RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS-LED STRIP LIGHT - EGG	L.F.
E 260533 ST	RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS-LED STRIP LIGHT - STEP	L.F.

Questions Submitted by Bidders and DDC's Responses

QUESTION #1: The size of the service conductors shown on E-101 are 250 MCM. There is current bid item for this cable in the bid schedule.

DDC'S RESPONSE: Item E 260519 H has been added to the estimate.

QUESTION #2: Riser key note 13 on E-101 has an item number of E260533A1.0. There is no such item in the bid schedule.

DDC'S RESPONSE: This item E260533A1.0 *has been added to the estimate.*

QUESTION #3: Please clarify what gets paid under bid item #260533C. The drawings do not show anything being paid under such bid item.

DDC'S RESPONSE: This item E 260533 C has been deleted.

QUESTION #4: Refer to drawing C-320, please provide a bid item number and corresponding specification for the telephone cable to be installed.

DDC'S RESPONSE: See Article 1 this addendum and Item 16.02LN-05A Bid and Contract Documents, Volume 3 of 3 .

QUESTION #5: Description for Bid Item #16.02LN-05 calls for 1" RGS conduit. Drawings and specifications show a 1/2" conduit to be installed. Please clarify

DDC'S RESPONSE: Item #16.02LN-05 calls for 1" RGS conduit has been deleted.
Item #16.02LN-05A 1/2" RGS conduit has been added

QUESTION #6: Refer to electrical work involved for the Street Clock shown in drawing ST-100. Please clarify if such electrical work is part of this contract. If it is, Please provide Bid/Pay Item number and quantity.

DDC'S RESPONSE: The electrical work for the Street Clock is included in this contract. We have added additional length of item E 260519 G for the street clock wiring in the estimate.

QUESTION #7: Refer to electrical work involved for the wayfinding signs shown in drawing L-700. Please clarify if such electrical work is part of this contract. If it is, Please provide Bid/Pay Item number and quantity.

DDC'S RESPONSE: Furnishing and installing conduit work for the wayfinding signs will be part of this contract. Cost deemed to be included under the Pay Item HW-914 ALLOWANCE FOR THE WAYFINDING TOTEMS.