

City of Worcester, MA
Addendum No. 1 to Contract Documents
for
Reconstruction of Federal Square (Carroll Plaza)
Contract No. M21-9

The following changes and additional information are hereby made part of the Contract Documents:

REPOSENSE TO QUESTIONS/CLARIFICATION

- Item 935.2021 Carroll Plaza Sculpture – This is a custom fabricated sculpture per the specifications and plans not a standard product. There is not a specific manufacturer or model number for the sculpture. It will require a fabrication process. The sculpture will require fabrication of perforated spiral weld cylinder columns.

A company that can provide the perforated spiral weld cylinder columns would be:

Perforated Tubes, Inc.
616.942.4550
4850 East Fulton Street
Ada, MI 49301

BID PROPOSAL

1. BID PAGES

§ Bid Pages 173 through 187 have been deleted in their entirety and replaced with new Bid Pages 173 through 187 (See Attachment 1).

§ Revisions include:

- Item 804.3 – 3 Inch Electrical Conduit – Type NM - Plastic (UL) – quantity is revised to 65 Feet.

CONSTRUCTION DOCUMENTS

2. SHEETS

§ Construction Document - Sheet 24 has been deleted in its entirety and replaced with new Construction Document - Sheet 24 (See Attachment 2).

§ Revisions include:

- The NGRID handhole (installed by others) has been moved approximately 18' north of the location originally shown on the plan.

ATTACHMENTS

Attachment 1 – Bid Pages 173 through 187 Re-Issued

Attachment 2 – Construction Document - Sheet 24 - Re-Issued

City of Worcester
Purchasing Division
Room 201 – City Hall
Worcester, MA 01608

BETA Group, Inc.
701 George Washington Highway
Lincoln, RI 02865
(401) 333-2382

ATTACHMENT 1
Bid Pages Re-issued

FEDERAL SQUARE (CARROLL PLAZA) IMPROVEMENTS
 BID FORM

BASE BID

Item Number	Estimated Quantity	Brief Description: unit or lump-sum, price bid in both words and figures.	Total in Figures
104	1	TREE REMOVAL (LESS THAN 24 INCHES) INCLUDING STUMP per each	
		_____ dollars	
		and _____ cents	(\$ _____) (\$ _____)
112	225	UNCLASSIFIED EXCAVATION & BACKFILL per cubic yard	
		_____ dollars	
		and _____ cents	(\$ _____) (\$ _____)
113	5	TEST HOLE EXCAVATION & BACKFILL per each	
		_____ dollars	
		and _____ cents	(\$ _____) (\$ _____)
126	100	GRAVEL BORROW per cubic yarrd	
		_____ dollars	
		and _____ cents	(\$ _____) (\$ _____)
130	100	CRUSHED STONE 3/4 INCH per cubic yard	
		_____ dollars	
		and _____ cents	(\$ _____) (\$ _____)
150	450	FURNISH AND SPREAD CALCIUM CHLORIDE per pound	
		_____ dollars	
		and _____ cents	(\$ _____) (\$ _____)
220.08	50	TRENCH EXCAVATION AND BACKFILL, FURNISH AND INSTALL 2" PVC per linear foot	
		_____ dollars	
		and _____ cents	(\$ _____) (\$ _____)

FEDERAL SQUARE (CARROLL PLAZA) IMPROVEMENTS
 BID FORM

220.08	60	TRENCH EXCAVATION AND BACKFILL, FURNISH AND INSTALL 8" PVC per linear foot		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
225.08	120	8 INCH CATCH BASIN CONNECTION per linear foot		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
236	2	MANHOLE FRAME AND COVER per each		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
244	1	REBUILD EXISTING CATCH BASINS TO ALTERNATIVE TYPE per each		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
254.2	3	CATCH BASIN ADJUST TO LINE AND/OR GRADE 12 INCH OR LESS, RIGID per each		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
301.015	140	1" COPPER TUBING per linear foot		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
304.08	5	WATER BOX ADJUST TO GRADE, GRAVEL BASE per each		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
309.1	1	SERVICE CONNECTION per each		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)

FEDERAL SQUARE (CARROLL PLAZA) IMPROVEMENTS
 BID FORM

309.2	3	SERVICE BOX AND CURB STOP per each	dollars	
		_____ cents	(\$ _____)	(\$ _____)
			_____ dollars	_____ dollars
		and _____ cents	(\$ _____)	(\$ _____)
310.4	1	HYDRANT REMOVED AND RESET per each	dollars	
		_____ cents	(\$ _____)	(\$ _____)
			_____ dollars	_____ dollars
		and _____ cents	(\$ _____)	(\$ _____)
313.1	3	THRUST BLOCK per cubic yard	dollars	
		_____ cents	(\$ _____)	(\$ _____)
			_____ dollars	_____ dollars
		and _____ cents	(\$ _____)	(\$ _____)
402	290	FINE GRADING, ROLLING AND FINISHING per square yard	dollars	
		_____ cents	(\$ _____)	(\$ _____)
			_____ dollars	_____ dollars
		and _____ cents	(\$ _____)	(\$ _____)
405	125	STRAIGHT CURB (VA-4) per foot	dollars	
		_____ cents	(\$ _____)	(\$ _____)
			_____ dollars	_____ dollars
		and _____ cents	(\$ _____)	(\$ _____)
408	50	CIRCULAR CURB (10' RADIUS & OVER) (VA-4) per foot	dollars	
		_____ cents	(\$ _____)	(\$ _____)
			_____ dollars	_____ dollars
		and _____ cents	(\$ _____)	(\$ _____)
409	100	CIRCULAR CURB (10' RADIUS & UNDER) (VA-4) per foot	dollars	
		_____ cents	(\$ _____)	(\$ _____)
			_____ dollars	_____ dollars
		and _____ cents	(\$ _____)	(\$ _____)
416	100	CURB REMOVE & RESET per foot	dollars	
		_____ cents	(\$ _____)	(\$ _____)
			_____ dollars	_____ dollars
		and _____ cents	(\$ _____)	(\$ _____)

FEDERAL SQUARE (CARROLL PLAZA) IMPROVEMENTS
 BID FORM

419	100	SAW CUTTING OF GRANITE CURB per foot		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
422.1	60	SUPERPAVE 9.5 MM LEVEL 2 (TOP COURSE) per ton		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
422.2	60	SUPERPAVE 12.5 MM LEVEL 2 (BINDER COURSE) per ton		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
435	60	HOT POURED RUBBERIZED ASPHALT SEALER per linear foot		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
454	120	WHEELCHAIR RAMP CEMENT CONCRETE - 6" THICK WITH DETECTABLE WARNING PANELS per square yard		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
503	150	12 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC) per foot		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
519	200	LIGHTED VARIABLE MESSAGE BOARD per day		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
804.2	1,400	2 INCH ELECTRICAL CONDUIT - TYPE NM - PLASTIC (UL) per foot		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)

FEDERAL SQUARE (CARROLL PLAZA) IMPROVEMENTS
 BID FORM

804.3 65 3 INCH ELECTRICAL CONDUIT - TYPE NM - PLASTIC (UL)
 per foot

_____ dollars
 and _____ cents (\$ _____) (\$ _____)

810.2 20 ELECTRIC HANDHOLE PRECAST CONCRETE
 per each

_____ dollars
 and _____ cents (\$ _____) (\$ _____)

811.2 1 ELECTRICAL LOAD CENTER BASE (CONCRETE)
 per each

_____ dollars
 and _____ cents (\$ _____) (\$ _____)

813.8 25 ELECTRIC SERVICE CONNECTION
 per linear foot

_____ dollars
 and _____ cents (\$ _____) (\$ _____)

820 5 DECORATIVE STREET LIGHTING
 per each

_____ dollars
 and _____ cents (\$ _____) (\$ _____)

821.2 1 STREET LIGHTING CONTROL LOAD CENTER (EACH)
 per each

_____ dollars
 and _____ cents (\$ _____) (\$ _____)

910.2017 2 BICYCLE RACK
 per each

_____ dollars
 and _____ cents (\$ _____) (\$ _____)

910.2021 2 FRAME AND GRATE (OR COVER) REMOVED AND STACKED
 per each

_____ dollars
 and _____ cents (\$ _____) (\$ _____)

FEDERAL SQUARE (CARROLL PLAZA) IMPROVEMENTS
BID FORM

911.2021	10	18" PVC DRAIN BASIN AND PEDESTRIAN GRATE/COVER per each	dollars	
		_____	and _____ cents	(\$ _____) (\$ _____)
912.2021	2	HOSE BIB per each	dollars	
		_____	and _____ cents	(\$ _____) (\$ _____)
913.2021	1	METER PIT per each	dollars	
		_____	and _____ cents	(\$ _____) (\$ _____)
914.2020	1	TRASH RECEPTACLE per each	dollars	
		_____	and _____ cents	(\$ _____) (\$ _____)
914.2021	260	LANDSCAPE CURB - STRAIGHT per linear foot	dollars	
		_____	and _____ cents	(\$ _____) (\$ _____)
915.2021	100	LANDSCAPE CURB - RADIAL per linear foot	dollars	
		_____	and _____ cents	(\$ _____) (\$ _____)
916.2021	650	NEW CONCRETE SIDEWALK 5 INCH W/ WWM per square yard	dollars	
		_____	and _____ cents	(\$ _____) (\$ _____)
917.2021	30	HOT MIX ASPHALT FOR MISCELLANEOUS WORK per ton	dollars	
		_____	and _____ cents	(\$ _____) (\$ _____)

FEDERAL SQUARE (CARROLL PLAZA) IMPROVEMENTS
 BID FORM

918.2021	9	SECURITY BOLLARD MODULE - 2 BOLLARD per each	dollars	
		_____	and _____ cents	
			(\$ _____)	(\$ _____)
919.2020	4	STREET LIGHT REMOVED AND STACKED per each	dollars	
		_____	and _____ cents	
			(\$ _____)	(\$ _____)
919.2021	1	SECURITY BOLLARD MODULE - 3 BOLLARD per each	dollars	
		_____	and _____ cents	
			(\$ _____)	(\$ _____)
920.2021	160	CONCRETE PAVERS per square yard	dollars	
		_____	and _____ cents	
			(\$ _____)	(\$ _____)
921.2021	5,090	EXPOSED AGGREGATE CONCRETE per square foot	dollars	
		_____	and _____ cents	
			(\$ _____)	(\$ _____)
922.2021	1	RAISED STAGE per lump sum	dollars	
		_____	and _____ cents	
			(\$ _____)	(\$ _____)
924.2021	250	TEMPORARY FENCE per foot	dollars	
		_____	and _____ cents	
			(\$ _____)	(\$ _____)
925.2021	210	GRANITE SEATWALL per foot	dollars	
		_____	and _____ cents	
			(\$ _____)	(\$ _____)

FEDERAL SQUARE (CARROLL PLAZA) IMPROVEMENTS
 BID FORM

926.2021	10	GRANITE WALL AND GUARDRAIL per foot		
			dollars	
		and _____ cents	(\$ _____)	(\$ _____)
927.2021	20	GRANITE STAIRS per foot		
			dollars	
		and _____ cents	(\$ _____)	(\$ _____)
928.2021	1	GRANITE PAD per each		
			dollars	
		and _____ cents	(\$ _____)	(\$ _____)
929.2021	5	SILT SACK per each		
			dollars	
		and _____ cents	(\$ _____)	(\$ _____)
930.2021	6	TABLE AND CHAIRS (4 CHAIRS PER TABLE) per each		
			dollars	
		and _____ cents	(\$ _____)	(\$ _____)
931.2021	1	WIRE ROPE ASSEMBLIES per lump sum		
			dollars	
		and _____ cents	(\$ _____)	(\$ _____)
932.2021	1	FLAGPOLE per each		
			dollars	
		and _____ cents	(\$ _____)	(\$ _____)
933.2021	3	PLANTER REMOVED AND DISPOSED per each		
			dollars	
		and _____ cents	(\$ _____)	(\$ _____)

FEDERAL SQUARE (CARROLL PLAZA) IMPROVEMENTS
 BID FORM

943.2021	2	BOLLARDS REMOVED AND DISPOSED per each		
			dollars	
		and _____ cents	(\$ _____)	(\$ _____)
935.2021	1	CARROLL PLAZA SCULPTURE per lump sum		
			dollars	
		and _____ cents	(\$ _____)	(\$ _____)
936.2021	12	SIDEWALK THICKNESS ADJUSTMENT UNDER STREET FURNITURE per square yard		
			dollars	
		and _____ cents	(\$ _____)	(\$ _____)
937.2021	100	PLANTING SOIL MIX per cubic yard		
			dollars	
		and _____ cents	(\$ _____)	(\$ _____)
938.2021	2	SLENDER SILHOUTTEE SWEETGUM 2.5-3 INCH CALIPER per each		
			dollars	
		and _____ cents	(\$ _____)	(\$ _____)
939.2021	2	IVORY PILLAR TREE LILAC 2.5-3 INCH CALIPER per each		
			dollars	
		and _____ cents	(\$ _____)	(\$ _____)
940.2021	5	EMERALD CITY TULIP TREE 2.5-3 INCH CALIPER per each		
			dollars	
		and _____ cents	(\$ _____)	(\$ _____)
941.2021	2	AUTUMN GOLD GINKGO 2.5"-3" CAL. per each		
			dollars	
		and _____ cents	(\$ _____)	(\$ _____)

FEDERAL SQUARE (CARROLL PLAZA) IMPROVEMENTS
 BID FORM

942.2021	6	DWARF FOUNTAIN GRASS - 'HAMELIN' 1 GALLON per each	dollars	
		_____	(\$ _____)	(\$ _____)
		and _____ cents		
943.2021	3	MALE WINTERBERRY 15"-18" per each	dollars	
		_____	(\$ _____)	(\$ _____)
		and _____ cents		
944.2021	9	RED SPRITE WINTERBERRY 24"-30" per each	dollars	
		_____	(\$ _____)	(\$ _____)
		and _____ cents		
945.2021	36	BLUE PACIFIC JUNIPER 18"-24" per each	dollars	
		_____	(\$ _____)	(\$ _____)
		and _____ cents		
946.2021	16	SCARLETTA LEUCOTHOE 18"-24" per each	dollars	
		_____	(\$ _____)	(\$ _____)
		and _____ cents		
947.2021	6	PRAIRIE DROPSEED 1 GALLON per each	dollars	
		_____	(\$ _____)	(\$ _____)
		and _____ cents		
948.2021	50	SALSA RED CONEFLOWER (4" POTS) per each	dollars	
		_____	(\$ _____)	(\$ _____)
		and _____ cents		
949.2021	24	HAPPY RETURNS DAYLILY (4" POTS) per each	dollars	
		_____	(\$ _____)	(\$ _____)
		and _____ cents		

FEDERAL SQUARE (CARROLL PLAZA) IMPROVEMENTS
 BID FORM

950.2021	19	PARDON ME DAYLILY (4" POTS) per each	dollars	
			(\$ _____)	(\$ _____)
		and _____ cents	(\$ _____)	(\$ _____)
951.2021	140	BIG BLUE LIRIOPE 1 GALLON per each	dollars	
			(\$ _____)	(\$ _____)
		and _____ cents	(\$ _____)	(\$ _____)
952.2021	40	AUTUMN JOY STONECROP (4" POTS) per each	dollars	
			(\$ _____)	(\$ _____)
		and _____ cents	(\$ _____)	(\$ _____)
953.2021	69	CORAL REEF STONECROP (4" POTS) per each	dollars	
			(\$ _____)	(\$ _____)
		and _____ cents	(\$ _____)	(\$ _____)
954.2021	128	WHITE MYRTLE (4" POTS) per each	dollars	
			(\$ _____)	(\$ _____)
		and _____ cents	(\$ _____)	(\$ _____)
955.2021	500	1 INCH ELECTRICAL CONDUIT - TYPE NM - PLASTIC (UL) per foot	dollars	
			(\$ _____)	(\$ _____)
		and _____ cents	(\$ _____)	(\$ _____)
956.2021	300	1.5 INCH ELECTRICAL CONDUIT - TYPE NM - PLASTIC (UL) per foot	dollars	
			(\$ _____)	(\$ _____)
		and _____ cents	(\$ _____)	(\$ _____)
957.2021	100	2.5 INCH ELECTRICAL CONDUIT - TYPE NM - PLASTIC (UL) per foot	dollars	
			(\$ _____)	(\$ _____)
		and _____ cents	(\$ _____)	(\$ _____)

FEDERAL SQUARE (CARROLL PLAZA) IMPROVEMENTS
 BID FORM

958.2021	1,100	WIRE TYPE 7 NO. 6 GENERAL PURPOSE per foot		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
959.2021	350	WIRE TYPE 7 NO. 4 GENERAL PURPOSE per foot		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
960.2021	150	WIRE TYPE 7 NO. 3/0 GENERAL PURPOSE per foot		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
961.2021	2,000	WIRE TYPE 7 NO. 12 GENERAL PURPOSE per foot		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
962.2021	600	WIRE TYPE 10 #12 GROUNDING AND BONDING per foot		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
963.2021	450	WIRE TYPE 10 #6 GROUNDING AND BONDING per foot		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
964.2021	50	WIRE TYPE 10 #4 GROUNDING AND BONDING per foot		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
965.2021	1	SITE LIGHTING per lump sum		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)

FEDERAL SQUARE (CARROLL PLAZA) IMPROVEMENTS
 BID FORM

966.2021	1	SPECIAL PURPOSE LIGHTING AND AUDIO CONTROL per lump sum		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
967.2021	3	CONCRETE BARRIER REMOVED AND STACKED per each		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
968.2021	1	USPS MAILBOX REMOVED AND RESET per each		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
969.2021	2,000	REFLECTORIZED DRUM per day		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
970.2021	5	PORTABLE BREAKAWAY BARRIER TYPE III per each		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
971.2021	70	STAMPED ASPHALT CROSSWALK/MEDIAN WITH THERMOPLASTIC PAVEMENT MARKING SYSTEM per square yard		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
972.2021	1	STREET SIGN REMOVED AND STACKED per each		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)
973.2021	1	TRAFFIC SIGN REMOVED AND STACKED per each		
		_____ dollars		
		and _____ cents	(\$ _____)	(\$ _____)

FEDERAL SQUARE (CARROLL PLAZA) IMPROVEMENTS
BID FORM

974.2021 5 TRAFFIC SIGN REMOVED AND RESET
per each

_____ dollars
and _____ cents (\$ _____) (\$ _____)

900.0000 1 LUMP SUM RESERVE FOR CITY USE

Two Hundred Twenty Thousand dollars
and Zero cents (\$ 220,000 .00) (\$220,000.00)

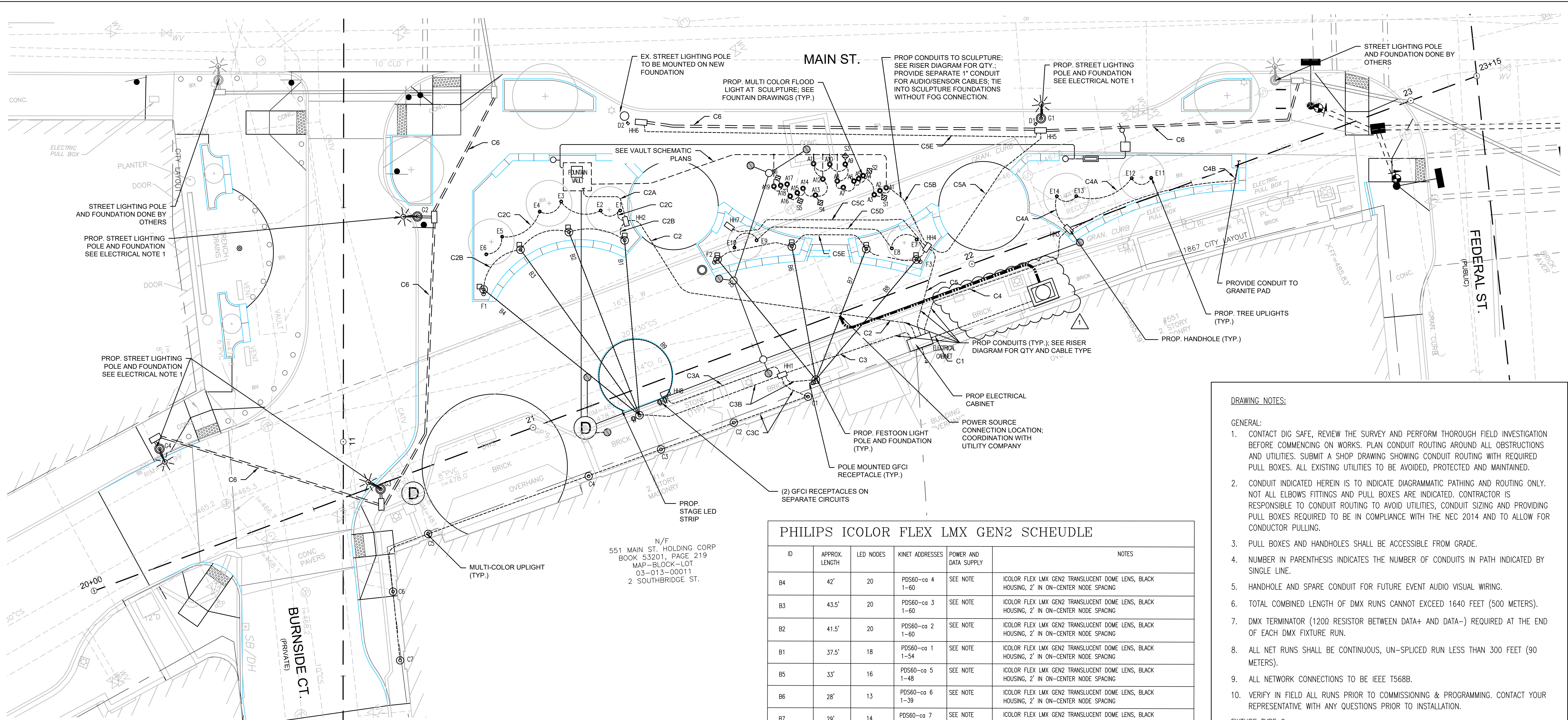
FEDERAL SQUARE (CARROLL PLAZA) IMPROVEMENTS
 BID FORM

BID ALTERNATE #1

Item Number	Estimated Quantity	Brief Description: unit or lump-sum, price bid in both words and figures.	Total in Figures
923.2021	1	EXTERIOR FOUNTAINS per lump sum	
		_____ dollars	
		and _____ cents	
		(\$ _____)	(\$ _____)

ATTACHMENT 2
Construction Document Sheet 24 Re-Issued

7/7/2021 9:00 AM C:\USERS\KRISTINE\DRIVE\WORKING\2019\2020019\4343 LIGHTING PLAN_BUA_2.DWG (MADOT-D.STB)



N/F
551 MAIN ST. HOLDING CORP
BOOK 53201, PAGE 219
MAP-BLOCK-L0T
03-013-00011
2 SOUTHBRIDGE ST.

LIGHTING FIXTURE LEGEND/SCHEDULE								
SYMBOL	QTY	DMX ADDRESSES	MANUFACTURER	PART/MODEL	DESCRIPTION	VOLTAGE	LAMPS	OPTIONS
• A	19	1/1-76	WE-EF	FLC220-CC LED	SCULPTURE LIGHTS	120/29	LED 29W	PROVIDE (2) 3' WATER PROOF CABLE TAILS WITH AN OUTDOOR RATED COMBINATION PLUG AND SOCKET THE END
--- B	173 (NODES)	KINET	PHILIPS	ICOLOR FLEX LMX GEN2 CLEAR FLAT LENS, BLACK HOUSING, 12 IN ON-CENTER NODE SPACING	STRAND/STRING LED NODES			MOUNT (1) CM-150 CA SURFACE MOUNT, THREE-WIRE TERMINAL, 24V, IP66 AND POWER SUPPLY, 320W 24V, 100-277V, IP67, UL ON POLE; FOR STAGE MOUNT IN ELECTRICAL CABINET
• C	7	sACN 3/1-28	LUMENPULSE	LBIL DO 120/277 RGBW 30K M... INTL DMX/RDM BVH SSB RBO ASL UL	IN GROUND UPLIGHT	120/35	LED 35W	MOUNT CBX-DS 120 ENET BK IN ELECTRICAL CABINET
• D	2	1/101-108	LUMENPULSE	LBG 120 RGBW M... BKT DMX/RDM UL 3FT BK	SCULPTURE FLOOD LIGHTS	TBD	TBD	MOUNT 15.5' UP ON TYPE G CITY STANDARD POLE WITH A (PM 5) ROUND POLE MOUNTING ACCESSORY; COORDINATE PROPER DRILL HOLE SIZE FOR POWER AND DATA CABLES WITH POLE MANUFACTURER
• E	14	2/101-102	BK LIGHTING	DELTA STAR (CONFIGURATION TBD)	TREE UPLIGHTS	TBD	TBD	PROVIDE DMX ENABLED DIMMABLE CONTROLS AND POWER PIPE DRIVER/MOUNT; COORDINATE TREE UPLIGHT LOCATIONS WITH ACTUAL TREE LOCATIONS.
• F	3	2/201-203	LUMENPULSE	LIAM 120 SSL L30 30K CRI 80 5 BKT DIM	LUMENICON AREA MEDIUM FIXTURE	TBD	TBD	ARM-PUB-S1E-SINGLE TENON MOUNTING; PROVIDE DIMMING CONTROL VIA 0-10V
• G	4	N/A	HOLOPHANE	MEMPHIS TEARDROP LED 2 SERIES 12,000 LUMEN WITH UPLIGHT AND AUTOSENSING VOLTAGE	CITY STANDARD LIGHTPOLE	TBD	TBD	PROVIDE WITH 20" 6" NORTH YORKSHIRE POLE ASSEMBLY AND BOSTON HARBOR DECO. ARM IN BLACK; SEE DETAIL FOR ADDITIONAL FITTINGS

PHILIPS ICOLOR FLEX LMX GEN2 SCHEUDLE					
ID	APPROX. LENGTH	LED NODES	KINET ADDRESSES	POWER AND DATA SUPPLY	NOTES
B4	42'	20	PDS60-co 4 1-60	SEE NOTE	ICOLOR FLEX LMX GEN2 TRANSLUCENT DOME LENS, BLACK HOUSING, 2' IN ON-CENTER NODE SPACING
B3	43.5'	20	PDS60-co 3 1-60	SEE NOTE	ICOLOR FLEX LMX GEN2 TRANSLUCENT DOME LENS, BLACK HOUSING, 2' IN ON-CENTER NODE SPACING
B2	41.5'	20	PDS60-co 2 1-60	SEE NOTE	ICOLOR FLEX LMX GEN2 TRANSLUCENT DOME LENS, BLACK HOUSING, 2' IN ON-CENTER NODE SPACING
B1	37.5'	18	PDS60-co 1 1-54	SEE NOTE	ICOLOR FLEX LMX GEN2 TRANSLUCENT DOME LENS, BLACK HOUSING, 2' IN ON-CENTER NODE SPACING
B5	33'	16	PDS60-co 5 1-48	SEE NOTE	ICOLOR FLEX LMX GEN2 TRANSLUCENT DOME LENS, BLACK HOUSING, 2' IN ON-CENTER NODE SPACING
B6	28'	13	PDS60-co 6 1-39	SEE NOTE	ICOLOR FLEX LMX GEN2 TRANSLUCENT DOME LENS, BLACK HOUSING, 2' IN ON-CENTER NODE SPACING
B7	29'	14	PDS60-co 7 1-42	SEE NOTE	ICOLOR FLEX LMX GEN2 TRANSLUCENT DOME LENS, BLACK HOUSING, 2' IN ON-CENTER NODE SPACING
B8	33'	16	PDS60-co 8 1-48	SEE NOTE	ICOLOR FLEX LMX GEN2 TRANSLUCENT DOME LENS, BLACK HOUSING, 2' IN ON-CENTER NODE SPACING
B9	37'	36	PDS60-co 9 1-108	SEE NOTE	ICOLOR FLEX LMX GEN2 CLEAR FLAT LENS, BLACK HOUSING, 12 IN ON-CENTER NODE SPACING

- NOTES:
 1. PROVIDE EXTRA RUN FOR CONNECTION (LENGTH TO BE DETERMINED BY INTEGRATOR)
 2. EACH RUN REQUIRES (1) POWER/DATA SUPPLY, DMX/ETHERNET (NA POWER CORD)
 3. CENTER NODES FOR OVERHEAD RUNS

EQUIPMENT LEGEND/SCHEDULE			
SYMBOL	QTY	DESCRIPTION	NOTES
□ PD		ICOLOR FLEX POWER/DATA SUPPLY	
□ HH		HANDHOLE	
□ DR		DUPLEX RECEPTACLE OUTLET	PROVIDE POLE MOUNTED WEATHERPROOF GFCI RECEPTACLE OUTLETS
□ PS		PROXIMITY SENSORS	COORDINATE CABLE REQUIREMENTS
□		ELECTRICAL CABINET	
---		NM CONDUIT	SEE CABLE AND CONDUIT SCHEDULE

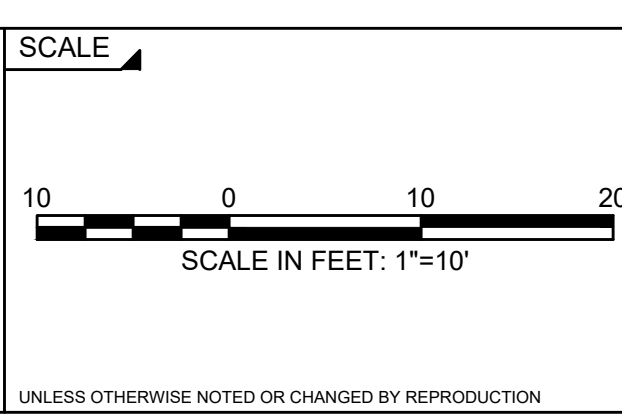
- DRAWING NOTES:**
- GENERAL:
- CONTACT DIG SAFE, REVIEW THE SURVEY AND PERFORM THOROUGH FIELD INVESTIGATION BEFORE COMMENCING ON WORKS. PLAN CONDUIT ROUTING AROUND ALL OBSTRUCTIONS AND UTILITIES. SUBMIT A SHOP DRAWING SHOWING CONDUIT ROUTING WITH REQUIRED PULL BOXES. ALL EXISTING UTILITIES TO BE AVOIDED, PROTECTED AND MAINTAINED.
 - CONDUIT INDICATED HEREIN IS TO INDICATE DIAGRAMMATIC PATHING AND ROUTING ONLY. NOT ALL ELBOWS FITTINGS AND PULL BOXES ARE INDICATED. CONTRACTOR IS RESPONSIBLE FOR CONDUIT ROUTING TO AVOID UTILITIES, CONDUIT SIZING AND PROVIDING PULL BOXES REQUIRED TO BE IN COMPLIANCE WITH THE NEC 2014 AND TO ALLOW FOR CONDUCTOR PULLING.
 - PULL BOXES AND HANDHOLES SHALL BE ACCESSIBLE FROM GRADE.
 - NUMBER IN PARENTHESIS INDICATES THE NUMBER OF CONDUITS IN PATH INDICATED BY SINGLE LINE.
 - HANDHOLE AND SPARE CONDUIT FOR FUTURE EVENT AUDIO VISUAL WIRING.
 - TOTAL COMBINED LENGTH OF DMX RUNS CANNOT EXCEED 1640 FEET (500 METERS).
 - DMX TERMINATOR (120Ω RESISTOR BETWEEN DATA+ AND DATA-) REQUIRED AT THE END OF EACH DMX FIXTURE RUN.
 - ALL NET RUNS SHALL BE CONTINUOUS, UN-SPLICED RUN LESS THAN 300 FEET (90 METERS).
 - ALL NETWORK CONNECTIONS TO BE IEEE T568B.
 - VERIFY IN FIELD ALL RUNS PRIOR TO COMMISSIONING & PROGRAMMING. CONTACT YOUR REPRESENTATIVE WITH ANY QUESTIONS PRIOR TO INSTALLATION.
- FIXTURE TYPE C:
- LEADER CABLE (ETHERNET CBX-ST TO FIRST FIXTURE) NOT TO EXCEED 50'
 - POWER AND DATA CONNECTIONS TO BE MADE IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED SPECIFICATIONS.

- ELECTRICAL NOTES:**
- CONTRACTOR SHALL SPLICE EXISTING STREET LIGHTING HANDHOLE AND EXTEND CIRCUIT TO TYPE G FIXTURES - TYPICAL FOR FOUR (4).

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS
1	7/6/21	KML	RWB	NGRID HANDHOLE LOCATION

DRAWN BY: _____
 DESIGNED BY: _____
 CHECKED BY: _____

REGISTERED PROFESSIONAL _____
 PREPARED BY: _____
 SUBCONSULTANT _____



TITLE

CARROLL PLAZA IMPROVEMENTS
Worcester, MA

LIGHTING PLAN

BETA JOB NO. 4343
 ISSUE DATE 11/12/2020 3:49 PM
 SHEET NO. 24