



City Of New London

Department of Finance-Purchasing Agent
13 Masonic Street • New London, CT 06320 • Phone (860) 447-5215 • Fax (860) 447-5297

Request for Proposals

ADDENDUM # 4

Proposal No.: 2022-08

Addendum No.: 4

Date Issued: June 14, 2022

Jefferson Avenue at Chester Street Roundabout and Roadway Improvements

Opening Date and Time: June 21, 2022 at 2:00PM

Bidders Notes: This addendum is issued to provide all potential bidders with answers to questions submitted.

All other terms and conditions remain the same.

This Addendum cover page must be signed and returned with your bid.

Authorized Signature of Bidder

Company Name

Return Bid To:

Joshua Montague, Accounting Purchasing Agent
City of New London
13 Masonic Street
New London, CT 06320

Bids cannot be accepted after the Bid Opening Date and Time indicated above.

ADDENDUM # 4

Jefferson Avenue at Chester Street Roundabout and Roadway Improvements

RE: 2022-08

FROM: Joshua Montague, Accounting Purchasing Agent

TO: Prospective bidders

This Addendum shall be part of the Contract Documents and modifies the original bidding documents. This Addendum is to be acknowledged by the bidders on the Bid Form. Failure to do so may subject the bidder to disqualification.

Changes to prior Addenda:

- No changes to Addendums #1-3

Q&A:

Q1. There does not appear to be sufficient information on the drip line irrigation system. Where is the service tapped into the main, where is the controller, shutoff, and backflow preventer to be located?

A1. As identified in the project specification for Item #0950050A, the contractor is to provide a complete irrigation system design within limits shown on sheet LND-01.

Q2. The tonnage quantity of asphalt in the Material Transfer Vehicle implies that it will be utilized for the bottom course and the top course of asphalt. Typically this is only used for the top course. Please confirm that the intent is for all courses of asphalt.

A2. Noted, the tonnage quantity for Material Transfer Vehicle was revised, please see revised Section 06000 (Contractor Bid Tabs).

Q3. Mobilization, M&P, Staking and Clearing have percentages in the Bid Item descriptions. What are these pertaining to? Please provide a spec for these items.

A3. Item description have been revised, percentages were removed for the following items, see new Section 06000 (Contractor Bid Tabs):

- 1. 0201001 Clearing and Grubbing*
- 2. 0971001 Maintenance and Protection of Traffic*
- 3. 0975004 Mobilization and Project Closeout*
- 4. 0980020 Construction Surveying*

Refer to the CTDOT Form 818 for items specification.

Q4. Note 8 under Utilities on sheet GEN-01 states all cb to to have trap hoods. How are these paid? Item 0507595 – 18” Trap Hood has a quantity of 1 each.

A4. Note 8 on sheet GEN-01 has been revised.

Q5. Please provide a spec for Item 0219004 – Storm Water Pollution Controls

A5. Item #0219004(Storm Water Pollution Controls) has been revised to item #0210820 Water Pollution Control). The specification for Item #0210820 has been provided.

Q6. Provide a spec for Tree Protection – Item 0915000.

A6. Noted, specification has been provided.

Q7. What time are the bids opened on June 21, 2022?

A7. Bids will be opened at 2:00 P.M.

Q8. The original bid specs included work hours based on D.O.T. standards.

A8. They won't apply to this job. The general work hours will be 7:30 a.m. to 5 p.m., Monday through Friday, with quiet mobilization permitted at 7 a.m.

2022-08

Weekend and evening work will be permitted if the City and contractor mutually agree it is warranted on specific occasions.

Q9. Is it possible to include a work stoppage due to inclement winter weather?

A9. This can be discussed as the need arises.

Q10. For the lump sum items, a percentage is noted in the bid sheet. Do we insert the exact amount of the percentage, or is that that mean those percentages are the maximum we can insert?

A10. The percentage references were removed from the Bid Tabulation sheets and Special Provisions are not necessary for these items. The standard 818 specifications can be used.

General Items:

- Updated tabs related to the above Q&A are attached to this addendum in the following pages:
 - Contractor Bid Tabulation
 - GEN-01
 - Index to technical specifications
 - Item #0210820A
 - Item #0915000A

Section 00600

CITY OF NEW LONDON
CONTRACTOR BID TABS

JEFFERSON AVE. CHESTER STREET ROUNDABOUT & ROADWAY IMPROVEMENT PROJECT
NEW LONDON, CT

CONTRACT NO.

ITEM NO.		EST. QTY.	UNITS	DESCRIPTION AND WRITTEN UNIT PRICE	UNIT PRICE	AMOUNT	SUB
0000564	A	1	l.s.	CENTRAL ISLAND LIGHTING AND CONTROLS at _____ dollars and _____ cents per lump sum.	\$	\$	
0201001		1	l.s.	CLEARING AND GRUBBING at _____ dollars and _____ cents per lump sum.	\$	\$	
0201501	A	2	ea.	RESET MAILBOX at _____ dollars and _____ cents per each.	\$	\$	
0202000		6250	c.y.	EARTH EXCAVATION at _____ dollars and _____ cents per cubic yard.	\$	\$	
0202100		150	c.y.	ROCK EXCAVATION at _____ dollars and _____ cents per cubic yard.	\$	\$	
0202451	A	30	c.y.	TEST PIT EXCAVATION at _____ dollars and _____ cents per cubic yard.	\$	\$	Non-Participating
0202503	A	100	l.f.	REMOVAL OF CONCRETE CURB at _____ dollars and _____ cents per linear foot.	\$	\$	
0202512	A	55	l.f.	CUT CONCRETE SIDEWALK at _____ dollars and _____ cents per linear foot.	\$	\$	
0202513		105	s.y.	REMOVAL OF CONCRETE SIDEWALK at _____ dollars and _____ cents per square yard.	\$	\$	
0202529		600	l.f.	CUT BITUMINOUS CONCRETE PAVEMENT at _____ dollars and _____ cents per linear foot.	\$	\$	
0209001		12650	s.y.	FORMATION OF SUBGRADE at _____ dollars and _____ cents per square yard.	\$	\$	
0210820	A	1	est.	WATER POLLUTION CONTROL at three thousand six hundred dollars and zero cents per estimate.	\$ 1.00	\$ 3,600.00	
0211000		70	s.y.	ANTI-TRACKING PAD at _____ dollars and _____ cents per square yard.	\$	\$	
0212000		4250	c.y.	SUBBASE at _____ dollars and _____ cents per cubic yard.	\$	\$	
0219001		620	l.f.	SEDIMENTATION CONTROL SYSTEM - SILT SOCK at _____ dollars and _____ cents per linear foot.	\$	\$	
0219011	A	40	ea.	SEDIMENT CONTROL SYSTEM AT CATCH BASIN at _____ dollars and _____ cents per each.	\$	\$	

0401201		285	l.f.	TRANSVERSE CONTRACTION JOINT at _____ dollars and _____ cents per linear foot.	\$	\$	
0406002	A	421	s.y.	TEMPORARY PAVEMENT at _____ dollars and _____ cents per square yard.	\$	\$	
0406170		3000	ton	HMA S1 at _____ dollars and _____ cents per ton.	\$	\$	
0406171		1600	ton	HMA S0.5 at _____ dollars and _____ cents per ton.	\$	\$	
0406236		1325	gal	MATERIAL FOR TACK COAT at _____ dollars and _____ cents per gallon.	\$	\$	
0406600		1600	ton	MATERIAL TRANSFER VEHICLE at _____ dollars and _____ cents per ton.	\$	\$	
0406999	A	5000	est.	ASPHALT ADJUSTMENT COST at five thousand dollars and zero cents per estimate.	\$	1.00	\$ 5,000.00
0409001		475	s.y.	FINE MILLING OF BITUMINOUS CONCRETE (0" TO 4") at _____ dollars and _____ cents per square yard.	\$	\$	
0507595		1	ea.	18" CATCH BASIN TRAP HOOD at _____ dollars and _____ cents per each.	\$	\$	
0586002.10		13	ea.	TYPE 'C' CATCH BASIN (4' SUMP) - 0' - 10' DEEP at _____ dollars and _____ cents per each.	\$	\$	
0586002.20		6	ea.	TYPE 'C' CATCH BASIN (4' SUMP) - 0' - 20' DEEP at _____ dollars and _____ cents per each.	\$	\$	
0586006.10		1	ea.	TYPE 'C' CATCH BASIN DOUBLE GRATE TYPE 2 (4' SUMP) - 0' - 10' DEEP at _____ dollars and _____ cents per each.	\$	\$	
0586006.20		1	ea.	TYPE 'C' CATCH BASIN DOUBLE GRATE TYPE 2 (4' SUMP) - 0' - 20' DEEP at _____ dollars and _____ cents per each.	\$	\$	
0586014.10		1	ea.	OFFSET TYPE 'C' CATCH BASIN (4' SUMP) - 0' - 10' DEEP at _____ dollars and _____ cents per each.	\$	\$	
0586041.10		1	ea.	TYPE 'C-L' CATCH BASIN (4' SUMP) - 0' - 10' DEEP at _____ dollars and _____ cents per each.	\$	\$	
0586500.10		4	ea.	MANHOLE - 0' - 10' DEEP at _____ dollars and _____ cents per each.	\$	\$	
0586501.06		1	ea.	MANHOLE (6' DIAMETER) - 0' - 10' DEEP at _____ dollars and _____ cents per each.	\$	\$	
0586750		3	ea.	TYPE 'C' CATCH BASIN TOP at _____ dollars and _____ cents per each.	\$	\$	
0586790.10		17	ea.	REMOVE DRAINAGE STRUCTURE - 0' - 10' DEEP at _____ dollars and _____ cents per each.	\$	\$	

0601020	A	2070	s.f.	STAMPED CONCRETE - TRUCK APRON at _____ dollars and _____ cents per square foot.	\$	\$	
0601021	A	1930	s.f.	STAMPED CONCRETE - SPLITTER ISLAND & SNOW SHELF at _____ dollars and _____ cents per square foot.	\$	\$	
0602030		3725	lb.	DEFORMED STEEL BARS - GALVANIZED at _____ dollars and _____ cents per pound.	\$	\$	
0602053		799.67	lb.	WELDED WIRE FABRIC at _____ dollars and _____ cents per pound.	\$	\$	
0686000.12		1430	l.f.	12" R.C. PIPE - 0' - 10' DEEP at _____ dollars and _____ cents per linear foot.	\$	\$	
0686000.15		935	l.f.	15" R.C. PIPE - 0' - 10' DEEP at _____ dollars and _____ cents per linear foot.	\$	\$	
0686000.18		205	l.f.	18" R.C. PIPE - 0' - 10' DEEP at _____ dollars and _____ cents per linear foot.	\$	\$	
0686000.24		465	l.f.	24" R.C. PIPE - 0' - 10' DEEP at _____ dollars and _____ cents per linear foot.	\$	\$	
0686002.12		245	l.f.	12" R.C. PIPE (CLASS V) - 0' - 10' DEEP at _____ dollars and _____ cents per linear foot.	\$	\$	
0686002.15		25	l.f.	15" R.C. PIPE (CLASS V) - 0' - 10' DEEP at _____ dollars and _____ cents per linear foot.	\$	\$	
0686002.18		245	l.f.	18" R.C. PIPE (CLASS V) - 0' - 10' DEEP at _____ dollars and _____ cents per linear foot.	\$	\$	
0686950.10		2680	l.f.	REMOVE EXISTING PIPE - 0' - 10' DEEP at _____ dollars and _____ cents per linear foot.	\$	\$	
0811001		25	l.f.	6" CONCRETE CURBING at _____ dollars and _____ cents per linear foot.	\$	\$	
0813001		2875	l.f.	5" GRANITE STONE CURBING at _____ dollars and _____ cents per linear foot.	\$	\$	
0813011		660	l.f.	5" GRANITE CURVED STONE CURBING at _____ dollars and _____ cents per linear foot.	\$	\$	
0813023		185	l.f.	MOUNTABLE GRANITE STONE CURBING WITH 2" REVEAL at _____ dollars and _____ cents per linear foot.	\$	\$	
0813024		220	l.f.	MOUNTABLE GRANITE STONE CURBING WITH 4" REVEAL at _____ dollars and _____ cents per linear foot.	\$	\$	
0813026		165	l.f.	MOUNTABLE GRANITE CURVED STONE CURBING WITH 4" REVEAL at _____ dollars and _____ cents per linear foot.	\$	\$	
0813034		75	l.f.	CENTRAL ISLAND GRANITE STONE CURBING WITH 6" REVEAL at _____ dollars and _____ cents per linear foot.	\$	\$	

0813451		65	l.f.	GRANITE STONE TRANSITION CURBING at _____ dollars and _____ cents per linear foot.	\$	\$
0814002		3380	l.f.	RESET GRANITE STONE CURBING at _____ dollars and _____ cents per linear foot.	\$	\$
0815001		75	l.f.	BITUMINOUS CONCRETE LIP CURBING at _____ dollars and _____ cents per linear foot.	\$	\$
0912503		300	l.f.	REMOVE METAL BEAM RAIL at _____ dollars and _____ cents per linear foot.	\$	\$
0915000	A	1	l.s.	TREE PROTECTION at _____ dollars and _____ cents per lump sum.	\$	\$
0921001		7490	s.f.	CONCRETE SIDEWALK at _____ dollars and _____ cents per square foot.	\$	\$
0921005		965	s.f.	CONCRETE SIDEWALK RAMP at _____ dollars and _____ cents per square foot.	\$	\$
0921039		22	ea.	DETECTABLE WARNING STRIP at _____ dollars and _____ cents per each.	\$	\$
0922001		5	s.y.	BITUMINOUS CONCRETE SIDEWALK at _____ dollars and _____ cents per square yard.	\$	\$
0922500		160	s.y.	BITUMINOUS CONCRETE DRIVEWAY (COMMERCIAL) at _____ dollars and _____ cents per square yard.	\$	\$
0922501		45	s.y.	BITUMINOUS CONCRETE DRIVEWAY at _____ dollars and _____ cents per square yard.	\$	\$
0924002		8	c.y.	CONCRETE DRIVEWAY RAMP at _____ dollars and _____ cents per cubic yard.	\$	\$
0939001		40	hr	SWEEPING FOR DUST CONTROL at _____ dollars and _____ cents per hour.	\$	\$
0942001		15	ton	CALCIUM CHLORIDE FOR DUST CONTROL at _____ dollars and _____ cents per ton.	\$	\$
0943001		900	m.gal	WATER FOR DUST CONTROL at _____ dollars and _____ cents per thousand gallons.	\$	\$
0944000		6900	s.y.	FURNISHING AND PLACING TOPSOIL at _____ dollars and _____ cents per square yard.	\$	\$
0949063.10		22	ea.	PENNISETUM ALOPECUROIDES, FOUNTAIN GRASS - 2 GAL. CONT. at _____ dollars and _____ cents per each.	\$	\$
0949253.10		31	ea.	BOUTELOUA GRACILIS, BLUE GRAMA - 2 GAL. CONT. at _____ dollars and _____ cents per each.	\$	\$
0949303.10		21	ea.	ANDROPOGON GERARDII, RED OCTOBER BIG BLUESTEM - 2 GAL. CONT. at _____ dollars and _____ cents per each.	\$	\$

0949520		20	ea.	SPOROBOLUS HETEROLEPIS, PRAIRIE DROPSEED - 2 GAL. CONT. at _____ dollars and _____ cents per each.	\$	\$	
0949703		6	ea.	TAXUS MEDIA "HICKSI" HICKS YEW 2 1/2' - 3' HT. B.B. at _____ dollars and _____ cents per each.	\$	\$	
0950005		8610	s.y.	TURF ESTABLISHMENT at _____ dollars and _____ cents per square yard.	\$	\$	
0950050	A	1	l.s.	DRIP LINE IRRIGATION SYSTEM at _____ dollars and _____ cents per lump sum.	\$	\$	
0969062	A	12	mo.	CONSTRUCTION FIELD OFFICE, MEDIUM at _____ dollars and _____ cents per month.	\$	\$	
0970006		76800	est.	TRAFFICPERSON (MUNICIPAL POLICE OFFICER) at seventy-six thousand eight hundred dollars and zero cents per estimate.	\$	1.00	\$ 76,800.00
0970007		640	hr	TRAFFICPERSON (UNIFORMED FLAGGER) at _____ dollars and _____ cents per hour.	\$	\$	
0971001	A	1	l.s.	MAINTENANCE AND PROTECTION OF TRAFFIC at _____ dollars and _____ cents per lump sum.	\$	\$	
0975004		1	l.s.	MOBILIZATION AND PROJECT CLOSEOUT at _____ dollars and _____ cents per lump sum.	\$	\$	
0976002		3000	day	BARRICADE WARNING LIGHTS - HIGH INTENSITY at _____ dollars and _____ cents per day.	\$	\$	
0977001		40	ea.	TRAFFIC CONE at _____ dollars and _____ cents per each.	\$	\$	
0978002		35	ea.	TRAFFIC DRUM at _____ dollars and _____ cents per each.	\$	\$	
0979003		20	ea.	CONSTRUCTION BARRICADE TYPE III at _____ dollars and _____ cents per each.	\$	\$	
0980020		1	l.s.	CONSTRUCTION SURVEYING at _____ dollars and _____ cents per lump sum.	\$	\$	
0992136	A	1	l.s.	SAILS at _____ dollars and _____ cents per lump sum.	\$	\$	
0992137	A	1	l.s.	SAIL POST, ANCHORS AND FOUNDATIONS at _____ dollars and _____ cents per lump sum.	\$	\$	
1001001	A	500	l.f.	TRENCHING AND BACKFILLING at _____ dollars and _____ cents per linear foot.	\$	\$	
1002110		6	ea.	DECORATIVE LIGHT POLE FOUNDATION at _____ dollars and _____ cents per each.	\$	\$	
1003595		6	ea.	DECORATIVE LIGHT POLE AND LIGHT FIXTURE at _____ dollars and _____ cents per each.	\$	\$	Non- Participating

1008015		30	I.f.	2" RIGID METAL CONDUIT - SURFACE at _____ dollars and _____ cents per linear foot.	\$	\$	
1008124		60	I.f.	1" POLYVINYL CHLORIDE CONDUIT IN TRENCH at _____ dollars and _____ cents per linear foot.	\$	\$	
1008127		410	I.f.	2" POLYVINYL CHLORIDE CONDUIT IN TRENCH at _____ dollars and _____ cents per linear foot.	\$	\$	
1008129		20	I.f.	3" POLYVINYL CHLORIDE CONDUIT IN TRENCH at _____ dollars and _____ cents per linear foot.	\$	\$	
1008908	A	20	I.f.	CLEAN EXISTING CONDUIT at _____ dollars and _____ cents per linear foot.	\$	\$	
1010006		9	ea.	CONCRETE HANDHOLE (SPECIAL) at _____ dollars and _____ cents per each.	\$	\$	
1010060	A	1	ea.	CLEAN EXISTING CONCRETE HANDHOLE at _____ dollars and _____ cents per each.	\$	\$	
1012010		1500	I.f.	NO. 10 SINGLE CONDUCTOR at _____ dollars and _____ cents per linear foot.	\$	\$	
1012036		1700	I.f.	NO. 6 SINGLE CONDUCTOR at _____ dollars and _____ cents per linear foot.	\$	\$	
1017014		1	ea.	DECORATIVE LIGHT CONTROL CABINET at _____ dollars and _____ cents per each.	\$	\$	
1111201	A	1	I.s.	TEMPORARY DETECTION (SITE 1) at _____ dollars and _____ cents per lump sum.	\$	\$	
1111401	A	6	ea.	LOOP VEHICLE DETECTOR at _____ dollars and _____ cents per each.	\$	\$	
1111451	A	125	I.f.	LOOP DETECTOR SAW CUT at _____ dollars and _____ cents per linear foot.	\$	\$	
1113050		575	I.f.	2 CONDUCTOR NO. 14 CABLE at _____ dollars and _____ cents per linear foot.	\$	\$	
1118012	A	1	I.s.	REMOVAL AND/OR RELOCATION OF TRAFFIC SIGNAL EQUIPMENT at _____ dollars and _____ cents per lump sum.	\$	\$	
1118051	A	1	I.s.	TEMPORARY SIGNALIZATION (SITE NO. 1) at _____ dollars and _____ cents per lump sum.	\$	\$	
1205203		15	ea.	TYPE DE-3 DELINEATOR at _____ dollars and _____ cents per each.	\$	\$	
1206023		1	I.s.	REMOVAL AND RELOCATION OF EXISTING SIGNS at _____ dollars and _____ cents per lump sum.	\$	\$	
1208931		460	s.f.	SIGN FACE - SHEET ALUMINUM (TYPE IX RETROREFLECTIVE SHEETING) at _____ dollars and _____ cents per square foot.	\$	\$	

1210101		6300	I.f.	4" WHITE EPOXY RESIN PAVEMENT MARKINGS at _____ dollars and _____ cents per linear foot.	\$	\$	
1210102		7020	I.f.	4" YELLOW EPOXY RESIN PAVEMENT MARKINGS at _____ dollars and _____ cents per linear foot.	\$	\$	
1210104		75	I.f.	8" WHITE EPOXY RESIN PAVEMENT MARKINGS at _____ dollars and _____ cents per linear foot.	\$	\$	
1210105		1445	s.f.	EPOXY RESIN PAVEMENT MARKINGS, SYMBOLS AND LEGENDS at _____ dollars and _____ cents per square foot.	\$	\$	
1210106		22	I.f.	12" WHITE EPOXY RESIN PAVEMENT MARKINGS at _____ dollars and _____ cents per linear foot.	\$	\$	
1211001		18	s.f.	REMOVAL OF PAVEMENT MARKINGS at _____ dollars and _____ cents per square foot.	\$	\$	
1212001		8300	I.f.	TEMPORARY PLASTIC PAVEMENT MARKING TAPE - 4" YELLOW at _____ dollars and _____ cents per linear foot.	\$	\$	
1212002		350	I.f.	TEMPORARY PLASTIC PAVEMENT MARKING TAPE - 4" WHITE at _____ dollars and _____ cents per linear foot.	\$	\$	
1212010		535	I.f.	TEMPORARY PLASTIC PAVEMENT MARKING TAPE - 12" WHITE at _____ dollars and _____ cents per linear foot.	\$	\$	
1212017		70	s.f.	TEMPORARY PLASTIC LEGEND ARROWS AND MARKINGS at _____ dollars and _____ cents per square foot.	\$	\$	
1220027	A	500	s.f.	CONSTRUCTION SIGNS at _____ dollars and _____ cents per square foot.	\$	\$	
1302061	A	7	ea.	ADJUST GATE BOX (WATER) at _____ dollars and _____ cents per each.	\$	\$	
1403501	A	3	ea.	RESET MANHOLE (SANITARY SEWER) at _____ dollars and _____ cents per each.	\$	\$	
						Total Proposal: \$ _____	
						Add up all values in the "Amount" column and insert the total here and as your Base Proposal	

Under penalty of perjury and other remedies available to the TOWN/CITY of _____, the undersigned certifies this bid is submitted without collusion, and all responses are true and accurate. If awarded this bid it is agreed this forms a contractual obligation to provide services at the fees specified in this Bid Form,

"Unit price" amounts are to be shown in both words and figures. In case of discrepancy, the amount shown in words will govern. In case of discrepancy between "unit price" and "extended price", the unit price will govern.

Under penalty of perjury and other remedies available to the City of New London, the undersigned certifies this proposal is submitted without collusion, and all responses are true and accurate. If awarded this proposal it is agreed this forms a contractual obligation to provide services at the fees specified in this Proposal Form, subject to and in accordance with all instructions, proposal and contract documents, including any addenda, which are all made part of this proposal.

Signature of Authorized Person

Date

Printed Name of Authorized Person

Company Title of Authorized Person

Name of Company

Address of Company

City, State, and Zip Code

Telephone Number

Facsimile Number

END OF PROPOSAL FORM

CONSTRUCTION NOTES - ADDITIONAL TO FORM 818

GENERAL

- SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SHOWN ON THE DRAWINGS TO SCALE OR TO THEIR ACTUAL DIMENSIONS OR LOCATION. COORDINATE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
- DO NOT RELY SOLELY ON ELECTRONIC VERSIONS OF DRAWINGS SPECIFICATIONS, AND DATA FILES THAT ARE PROVIDED BY THE ENGINEER. FIELD VERIFY LOCATION OF PROJECT FEATURES.
- ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND PAYMENT LIMITS SHALL BE RESTORED AT NO ADDITIONAL COST TO THE CITY. PAVEMENT SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS.
- THE CONTRACTOR SHALL MAINTAIN SIDE SLOPES AND DRAINAGE SWALES DURING CONSTRUCTION TO PREVENT PONDING AND EROSION.
- ALL STREET EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING. COVERING WITH STEEL PLATES MAY BE ALLOWED IF APPROVED BY THE CITY ENGINEER.
- WHERE ENCOUNTERED, UNSUITABLE MATERIAL SHALL BE REMOVED TO A DEPTH OF AT LEAST 12-INCHES BELOW THE BOTTOM OF TRENCH EXCAVATIONS AND REPLACED WITH GRANULAR FILL, UNLESS OTHERWISE SPECIFIED.
- REMOVAL OF ALL TREES WITHIN THE EXCAVATION LINES SHALL BE PAID FOR BY CLEARING AND GRUBBING.
- GEOTECHNICAL DATA INCLUDING BORING LOCATIONS AND ELEVATIONS WERE OBTAINED FROM HALEY & ALDRICH.
- ALL GUIDE RAIL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS AND ISSUED REVISIONS/SUPPLEMENTS, AND STANDARD DETAILS.

WORK RESTRICTIONS:

- ALL CONSTRUCTION ACTIVITIES, INCLUDING THE LOADING AND UNLOADING OF MATERIALS AND EQUIPMENT, SHALL BE LIMITED TO THE HOURS OF 7:00AM TO 6:00PM ON MONDAY THROUGH FRIDAY FOR CONSTRUCTION ACTIVITIES, 8:00AM TO 6:00PM ON SATURDAY FOR CONSTRUCTION ACTIVITIES, 7:00AM TO 5:00PM ON SATURDAY FOR DELIVERIES, AND NO WORK ON SUNDAY. ANY WORK PERFORMED DURING WEEKDAY NIGHTS OUTSIDE OF ALLOWABLE WORK HOURS LISTED ABOVE SHALL REQUIRE A PERMIT.

EROSION AND SEDIMENT CONTROL:

- THE CONTRACTOR SHALL INSTALL THE SPECIFIED EROSION CONTROL DEVICES BEFORE BEGINNING OTHER WORK ON SITE AND MAINTAIN THEM FOR THE DURATION OF THE PROJECT.
- REFER TO THE DRAWINGS FOR EROSION AND SEDIMENT CONTROL LOCATIONS.
- IMPLEMENT ALL NECESSARY MEASURES REQUIRED TO CONTROL STORMWATER RUNOFF, DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE, PERFORM CORRECTIVE ACTION AS NEEDED, FOR EROSION CLEAN-UP AND REPAIRS TO OFF SITE AREAS, IF ANY, AT NO COST TO OWNER.

CONSTRUCTION LAYOUT

- PROVIDE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED SITE IMPROVEMENTS. FIELD VERIFY EXISTING PAVEMENT AND GROUND ELEVATIONS AT THE INTERFACE WITH PROPOSED PAVEMENTS AND DRAINAGE STRUCTURES BEFORE START OF CONSTRUCTION.
- PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, FIELD VERIFY PROPOSED UTILITY ROUTES AND IDENTIFY ANY INTERFERENCES OR OBSTRUCTIONS WITH EXISTING UTILITIES OR PUBLIC RIGHTS-OF-WAY.
- IMMEDIATELY INFORM THE ENGINEER IN WRITING IF EXISTING UTILITY CONDITIONS CONFLICT OR DIFFER FROM THAT INDICATED AND IF THE WORK CANNOT BE COMPLETED AS INDICATED.
- BOUNDS OR MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR. CONTRACTOR IS REQUIRED AND RESPONSIBLE FOR THE RESET OF THE MONUMENTS OR BOUNDS AT THEIR COST IF DISTURBED.

UTILITIES:

- THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455 AND THE TOWN AT LEAST 72 HOURS PRIOR TO EXCAVATING AT ANY LOCATION, SATURDAYS, SUNDAYS, AND HOLIDAYS EXCLUDED. A COPY OF THE CBVD PROJECT REFERENCE NUMBER(S) SHALL BE GIVEN TO THE OWNER PRIOR TO EXCAVATION.
- LOCATIONS OF EXISTING PIPES, CONDUITS, UTILITIES, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL HAVE NO CLAIM ON THAT ACCOUNT SHOULD THEY BE OTHER THAN SHOWN.
- TEST PITS TO LOCATE EXISTING UTILITIES MAY BE ORDERED BY THE ENGINEER.
- TERMINATE EXISTING UTILITIES IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND DETAILS. COORDINATE UTILITY SERVICE DISCONTINUES WITH UTILITY REPRESENTATIVES.
- THE CONTRACTOR SHALL COORDINATE THE WORK AND WORK SCHEDULE WITH UTILITY COMPANIES. PROVIDE ADEQUATE NOTICE TO UTILITIES TO PREVENT DELAYS IN CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING OF FRAMES, GRATES, GATES, VALVE BOXES ETC. WHICH SHALL BE DONE IN ACCORDANCE WITH INDIVIDUAL UTILITY COMPANY REQUIREMENTS.
- RIM ELEVATIONS FOR MANHOLES, VALVE COVERS, GAS AND WATER GATES AND PULL BOXES, AND OTHER STRUCTURES SHALL BE SET OR RESET FLUSH TO FINISH GRADE.
- PROVIDE ONE TRAP HOOD IN CATCH BASIN AS SHOWN ON GRA-06.
- EXISTING STRUCTURES SHALL BE CORED PRIOR TO INSTALLING PIPE.
- THE TYPE, SIZE AND LOCATION OF DEPICTED UNDERGROUND UTILITIES ARE APPROXIMATE REPRESENTATIONS OF INFORMATION OBTAINED FROM FIELD LOCATIONS OF VISIBLE FEATURES, EXISTING MAPS AND PLANS OF RECORD, UTILITY MAPPING, AND OTHER SOURCES OF INFORMATION OBTAINED BY THE ENGINEER. ASSUME NO GUARANTEE AS TO THE COMPLETENESS, SERVICEABILITY, EXISTENCE, OR ACCURACY OF UNDERGROUND FACILITIES. FIELD VERIFY THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES.
- INTERIOR DIAMETERS OF STORM DRAIN AND SANITARY SEWER STRUCTURES SHALL BE DETERMINED BY THE PRECAST MANUFACTURER, BASED ON THE INDICATED PIPE SYSTEM LAYOUT AND LOCAL MUNICIPAL STANDARDS.

MINIMUM INTERIOR DIAMETERS:
0 TO 20 FEET DEEP; 4 FEET.
20 FEET OR GREATER; 5 FEET.

INSTALLATION OF MANHOLE FRAMES, CATCH BASIN TOPS, AND GAS AND WATER GATES TO FINISH GRADE:

- THE PROCEDURE FOR INSTALLING MANHOLE FRAMES, CATCH BASIN TOPS, AND GAS AND WATER GATES TO FINISH GRADE SHALL BE AS STIPULATED IN THE FOLLOWING STEPS.
 - CATCH BASINS, MANHOLES, AND GAS AND WATER GATES SHALL INITIALLY BE INSTALLED TO THE TOP OF THE SUBBASE LAYER, PLATED, AND MARKED WITH LOCATIONS REFERENCED.
 - AFTER DRAINAGE, SANITARY SEWER, AND GAS AND WATER GATE STRUCTURES ARE PLATED, THE BASE COURSE OF BITUMINOUS CONCRETE SHALL BE INSTALLED TO THE GRADES SHOWN ON THE PLANS.
 - FROM THE REFERENCE MARKS, THE BASE COURSE OF PAVEMENT SHALL BE CUT, THE STRUCTURES EXPOSED AND THE TOPS PLACED TO FINAL GRADE.
 - THE FRAMES AND TOPS SHALL BE BROUGHT TO FINAL GRADE USING AN APPROPRIATE COMBINATION OF CONCRETE RISER RINGS, CEMENT MORTAR, CONCRETE BRICKS AND STEEL SHIMS, AS NECESSARY.
 - THE FRAMES AND TOPS SHALL BE ALIGNED TO MATCH THE PROPOSED CROSS SLOPE AND GRADE OF THE SURROUNDING PAVED SURFACE TO THE EXTENT PRACTICABLE.

PAVEMENT

- AT A MINIMUM, CONSTRUCT ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS IN CONFORMANCE WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE STRINGENT).

SITE RESTORATION

- PROVIDE 4 INCHES OF TOPSOIL AND SEED TO AREAS DISTURBED DURING CONSTRUCTION AND NOT DESIGNATED TO BE RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) UNLESS OTHERWISE NOTED.
- REPAIR DAMAGES RESULTING FROM CONSTRUCTION LOADS, AT NO ADDITIONAL COST TO THE CITY.
- RESTORE AREAS DISTURBED BY CONSTRUCTION OPERATIONS TO THEIR ORIGINAL CONDITION OR BETTER, AT NO ADDITIONAL COST TO THE CITY.

SURVEY NOTES:

- SEE SHEET EXC-01 FOR SURVEY NOTES.

ABBREVIATIONS

GENERAL

APPROX. APPROXIMATE
BIT. BITUMINOUS
BW BOTTOM OF WALL
CC CONCRETE CURB
CCB CAPE CODE BERM
CONC. CONCRETE
ELEV ELEVATION
EXIST EXISTING
GC GRANITE CURB
MAX MAXIMUM
MIN MINIMUM
NTS NOT TO SCALE

PCC PRE CAST CONCRETE CURB
PROP PROPOSED
REM REMOVE
R&D REMOVE AND DISPOSE
R&R REMOVE AND RESET
R&S REMOVE AND STACK
TOS TOP OF SLOPE
TW TOP OF WALL
TYP TYPICAL
VGC VERTICAL GRANITE CURB

UTILITY

CB CATCH BASIN
CMP CORRUGATED METAL PIPE
CPP CORRUGATED POLYETHYLENE PIPE
DCB DOUBLE CATCH BASIN
DI DUCTILE IRON PIPE
F&G FRAME AND GRATE
F&C FRAME AND COVER
HDPE HIGH DENSITY POLYETHYLENE PIPE
HYD HYDRANT
INV INVERT ELEVATION
PVC POLYVINYL CHLORIDE PIPE
RCP REINFORCED CONCRETE PIPE
RD ROOF DRAIN
SMH SEWER MANHOLE
TSV TAPPING SLEEVE, VALVE AND BOX
UP UTILITY POLE

ROUNABOUT DESIGN CRITERIA (NCHRP 672 Roundabouts: An Informational Guide 2nd Edition)	
DESIGN SPEED	20 MPH
INSCRIBED DIAMETER CIRCLE	97'
CIRCULATORY TRAVEL LANE WIDTH	20'-0"
CIRCULATORY TRAVEL LANE CROSS SLOPE	1.25%-1.75%
APPROACH TO CROSSWALK STOPPING SIGHT DISTANCE	>200' (30 MPH)
CIRCULATORY STOPPING SIGHT DISTANCE	65' (13 MPH)
SIGHT DISTANCE TO CROSSWALK (MIN. IN ROUNABOUT)	86'
TRUCK APRON WIDTH	17'-0"
TRUCK APRON CROSS SLOPE	1.25%-1.75%
TRUCK APRON CURB REVEAL	2"
MAX PROFILE GRADE	4%
MINIMUM REFUGE AREA WIDTH	6'-0"
ENTRY RADIUS	60' - 85'
EXIT RADIUS	125' - 160'
CENTRAL ISLAND DIAMETER	22'-0"
LARGEST DESIGN VEHICLE	WB-62
OFFSET ALIGNMENT TYPE	CENTER

LEGEND

	PROPERTY LINE/RIGHT-OF-WAY		MINOR CONTOUR
	CENTERLINE		MAJOR CONTOUR
	LIMIT OF DISTURBANCE		TOP OF SLOPE
	EASEMENT		BOTTOM OF SLOPE
	BUILDING SETBACK		BUILDING
	STATE HIGHWAY BASELINE		BOLLARD SIGN
	BASELINE		DOUBLE SIGN
	ZONING LINE		PARKING METER
	EDGE OF WATER		PARKING COUNT
	WETLAND LINE		CROSSWALK
	BUFFER ZONE		HANDICAP RAMP
	WETLAND SYMBOL		HANDICAP PARKING
	GRAVEL ROAD		VAN-ACCESSIBLE HANDICAP PARKING
	EDGE OF PAVEMENT		TOP & BOTTOM ELEVATION
	BITUMINOUS CURB		SPOT ELEVATION w/LEADER
	CONCRETE CURB		SPOT ELEVATION
	PRECAST CONC. CURB		SOIL BORING
	VERT. GRAN. CURB		MONITORING WELL
	LIMIT OF CURB TYPE		TEST PIT LOCATION
	SAW CUT		IRON PIPE
	MATCH LINE		DRILL HOLE
	SOLID WHITE LINE		IRON PIN
	SOLID YELLOW LINE		MONUMENT
	BROKEN YELLOW LINE		MAIL BOX
	SOLID WHITE CHANNELIZING LINE		CONTROL POINT
	SOLID YELLOW CHANNELIZING LINE		SILT FENCE / SILT SACK
	DOUBLE YELLOW LINE		HAYBALES
	STOP LINE		
	GUIDE RAIL		
	STOCKADE FENCE		
	WIRE FENCE		
	CHAIN LINK FENCE		
	TREE LINE		
	SHRUB LINE		
	STONE WALL		
	RETAINING WALL		

ROADWAY DESIGN CRITERIA (CT DOT HIGHWAY DESIGN MANUAL, 2003 EDITION) NEW CONSTRUCTION/MAJOR CONSTRUCTION: CH. 5		
STREET	JEFFERSON AVENUE	CHESTER STREET
CLASSIFICATION	URBAN MINOR ARTERIAL	URBAN MINOR ARTERIAL
DESIGN SPEED	30 MPH	25 MPH
TRAVEL LANE WIDTH	11'-12' (12' PROPOSED)	11'-12' (>11' PROPOSED)
SHOULDER WIDTHS	4'-8' (5' PROPOSED)	4'-8' (>4' MAINTAINED)
ROADWAY CROSS SLOPE	1.75% - 3.00%	1.0% - 2.0%
RECOMMENDED CLEAR ZONE (AASHTO RDG)	14'-18'	14'-18'
PROFILE GRADE (MIN/MAX)	0.50% - 6.50%	0.50% - 1.60%
PROFILE RATE OF CURVATURE (CREST MIN)	19 ALLOWED / >19 PROPOSED	12 ALLOWED / 25 PROPOSED
PROFILE RATE OF CURVATURE (SAG MIN)	37 ALLOWED / >37 PROPOSED	26 ALLOWED / 26 PROPOSED
SIDEWALK WIDTH	±5'	±5'

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SEAL	SEAL

SCALE:

HORIZ.: N.T.S.
VERT.:

DATUM:

HORIZ.:
VERT.:

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CITY OF NEW LONDON

GENERAL NOTES & LEGEND PLAN

JEFFERSON AVE. AT CHESTER STREET ROUNABOUT & ROADWAY IMPROVEMENTS

NEW LONDON CONNECTICUT

PROJ. No.: 20170353 A20
DATE: FEBRUARY 2022

GEN-01

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PERMITS AND/OR SUPPLEMENTAL TO FORM 818 AND REQUIRED PROVISIONS

SECTION 01020 – SPECIAL PROVISIONS

ITEM #0210820A - WATER POLLUTION CONTROL

Description: This work shall consist of measures to control water pollution and soil erosion through the use of berms, dikes, dams, sediment basins, erosion control matting, gravel, mulches, grasses slope drains, ditches, channels, riprap, grading to control surface runoff and other erosion control devices or methods. If the Contractor proposes changes in construction or scheduling which would affect the designed pollution controls, plans for revised pollution controls shall be submitted for the Engineer's approval before starting construction.

The Contractor shall submit a plan showing erosion and sedimentation controls above and beyond those called for in the plans and specifications, necessitated by its proposed sequence of operations and construction activities. The construction shall not proceed until the erosion and sedimentation control plans have been approved by the Engineer. The Engineer may order additional control measures if the measures mentioned above prove insufficient.

Materials: The materials shall consist of items meeting the pertinent articles of the Standard Specifications and approved by the Engineer, or other items approved by the Engineer, such as:

- (a) Soil tackifiers, erosion control matting, burlap, and plastic sheets. All materials shall be clean and free from noxious weeds, contaminants, and debris deleterious to plant growth. Erosion control matting shall be as specified in M.13.
- (b) Slope drains or ditches may be constructed of pipe, rubble, riprap, sod, burlap, plastic sheets, Portland cement concrete, bituminous concrete, or other material approved by the Engineer.

Construction Methods: The Contractor to immediately provide permanent or temporary pollution control measures to prevent contamination of adjacent streams, watercourses, lakes, ponds or other areas of water impoundment. Every effort shall be made by the Contractor to prevent erosion on the Site and abutting property.

All slopes shall be stabilized by mulching, seeding or otherwise protected as the work progresses to comply with the intent of this specification. All seeding shall include mulch or other protective covering approved by the Engineer. When hay is used as a mulch with seeding, it shall be a minimum of 2 inches deep and held down with a tackifier. When wood fiber mulch is used, it shall be applied in a water slurry at a rate of 2000 lb./ac with or immediately after the application of seed, fertilizer and limestone.

All damaged slopes shall be repaired as soon as possible. The Contractor shall at all times have on hand the necessary materials and equipment to provide for early slope stabilization and corrective measures to damaged slopes.

Temporary channels, ditches and outfalls shall be protected prior to directing water into them to prevent erosion. The erosion control features installed by the Contractor shall be maintained by the Contractor, and such installations shall be removed if ordered by the Engineer. Maintenance of erosion control measures by the Contractor shall include the clean out of accumulated sediment. The Contractor shall operate all equipment and perform all construction operations so as to minimize pollution. The Contractor shall cease any of its operations which will increase pollution during rainstorms.

Method of Measurement: Measurement for payment of work and materials involved with the construction, application and installation of water pollution controls will be as provided for under the applicable Contract item.

The sum of money shown on the estimate and in the itemized proposal as “Estimated Cost” for this work will be considered the price bid even though payment will be made only for actual work performed. The estimated cost figure is not to be altered in any manner by the bidder. Should the bidder alter the amount shown, the altered figures will be disregarded and the original price will be used to determine the total amount bid for the Contract.

Basis of Payment:

Work will be paid for under the applicable Contract Item #0210820A. No payment will be made for the clean out of accumulated sediment for either permanent or temporary erosion control measures.

Pay Item

Pay Unit

Water Pollution Control

est.

SECTION 01020 – SPECIAL PROVISIONS

ITEM #0915000A- TREE PROTECTION

Description: This item shall consist of applying wood framing and safety delineator fence around the trunk or trunks of the tree from the ground level to the height of 6 feet as indicated on the plans or as directed by the Engineer, all in accordance with these Specifications.

Materials:

1. Fence Post: Wood framing shall consist of nominal lumber 6 feet in length; the width and thickness shall vary from 2" x 2" to 2" x 6", depending on trunk diameter. Wood posts shall be spaced not more than 36 inches apart. Binding material shall consist of single strand 9-gauge wire or 1/2-inch strapping.
2. Safety Delineator Fence: Plastic construction fencing constructed of high-density extruded and stretched polyethylene fabric with 2-inch maximum opening in pattern and weighing a minimum of 0.4 lb/ft.; remaining flexible from minus 60 to plus 200 deg F; inert to most chemicals and acids; minimum tensile yield strength of 2000 psi and ultimate tensile strength of 2680 psi. Color: High-visibility orange, nonfading.

Construction Methods:

General: All tree protection and maintenance work shall be performed in compliance with the National Arborist Association and the American National Standards Institute (ANSI) Publication. ANSI Z 133.1 "Safety Requirements for Pruning, Trimming, Repairing, Maintaining and Removing Trees, and for Cutting Brush."

The Contractor and the Engineer shall meet on the site to discuss all aspects of tree protection and maintenance prior to the commencement of any work, including clearing and grubbing operations. This meeting will include the field inspection of the staked limit of grading to review the existing vegetation and to identify any field modifications to the work.

No excavated material or construction materials are to be stockpiled within the drip line of any tree. Tree root systems shall be protected from smothering, flooding, erosion, and excessive wetting resulting from dewatering operations; and from run-off, spillage, and drainage of solutions containing materials which would be deleterious to tree roots. Parking and vehicular traffic shall not be permitted within the tree's drip lines.

Tree Protection: The wood framing shall be placed around the trunk in sufficient quantity to protect the trunk from mechanical damage, wood framing members shall not be spaced greater than 4 inches apart. The binding material shall be tight to prevent the wood from moving. The binding material shall not come in contact with the trunk or any portion of the tree. Under no circumstance shall nails or any other type of fastener enter the tree. The wood framing shall be removed and legally disposed of when all mechanical work within the surrounding area has been completed.

Method of Measurement: This work will be measured for payment as a complete and operating system of the materials, type and sizes specified, installed and accepted. No additional payment will be made for the reinstallation, repair or replacement of the barrier.

Basis of Payment:

This work will be paid for at the Contract lump sum for “Tree Protection.” This price shall include costs for all maintenance throughout construction, materials, equipment, tools, and labor incidental thereto.

Pay Item

Tree Protection

Pay Unit

ls.